ADDENDUM NO. 01

July 31, 2024

Renovation of Fall Creek Intermediate School
12011 Olio Road
Fishers, IN 46038

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated July 12, 2024, by krM Architecture. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1-3 and attached krM Architecture Addendum No. 1 dated July 29, 2024, consisting of two pages of Civil and Architectural narrative and four pages of MEP narrative, new Specification Section 26 09 43.23 Relay Based Lighting Controls, and 73 Drawing Sheets.

A. SECTION 00 02 00 – NOTICE TO PRE-QUALIFIED BIDDERS

1. Replace specification section with updated version included as part of this Addendum.

B. **SECTION 01 12 00 – MULTIPLE CONTRACT SUMMARY**

3.03 BID CATEGORIES

A. BID CATEGORY NO. 1 – GENERAL TRADES

Revise the following clarifications to read as follows:

22. All Work related to temporary classrooms must start immediately following receipt of Notice to Proceed. Work must be complete by October 16, 2024.

Add the following clarifications:

28. Contractor is responsible for ¾" plywood protection at gymnasium prior to carpet installation for temporary classroomss.
29. Contractor is responsible for refinishing of the gymnasium wood flooring.

C. BID CATEGORY NO. 3 – METAL STUDS AND DRYWALL

Revise the following clarifications to read as follows:

7. All Work related to temporary classrooms must start immediately following receipt of Notice to Proceed. Work must be complete by October 16, 2024.

Add the following clarifications:

28. Contractor is responsible for ¾" plywood protection at gymnasium prior to carpet installation for temporary classrooms.
29. Contractor is responsible for refinishing of the gymnasium wood flooring.

E. BID CATEGORY NO. 5 – FLOORING

Add the following clarifications:

2. Contractor is responsible to install Owner provided carpet tile for temporary classrooms.
3. All Work related to temporary classrooms must start immediately following receipt of Notice to Proceed. Work must be complete by October 16, 2024.

J. BID CATEGORY NO. 10 – PLUMBING & HVAC

Revise the following clarifications to read as follows:

10. All Work related to temporary classrooms must start immediately following receipt of Notice to Proceed. Work must be complete by October 16, 2024.

Add the following clarifications:

28. Contractor is responsible for ¾" plywood protection at gymnasium prior to carpet installation for temporary classrooms.
29. Contractor is responsible for refinishing of the gymnasium wood flooring as noted in drawings. Specification forthcoming via future Addendum.

K. BID CATEGORY NO. 11 – ELECTRICAL

Add the following specification sections:

Section 26 09 43.23 – Relay Based Lighting Controls

Revise the following clarifications to read as follows:

6. All Work related to temporary classrooms must start immediately following receipt of Notice to Proceed. Work must be completed by October 16, 2s024.

C. **SECTION 01 32 00 – SCHEDULES AND REPORTS**

1. Guideline Schedule is included as part of this Addendum.
2. Interior Logistics Plan is included as part of this Addendum.

D. **SECTION 01 55 00 – ACCESS ROADS AND PARKING AREAS**

1. Exterior Logistics Plan is included as part of this Addendum.

SECTION 00 02 00 - NOTICE TO PRE-QUALIFIED BIDDERS

NOTICE TO PRE-QUALIFIED TIER 1 BIDDERS

Notice is hereby given that sealed bids will be received for a Public CMc Project under IC 5-32:

By: The Skillman Corporation, Construction Manager

For: Renovation of Fall Creek Intermediate School

At: August 22, 2024
Hamilton Southeastern Schools, Owner
13485 Cumberland Road
Fishers, In 46038

Until: 10:00 AM (local time) Via: eBid.

Bid Opening: Bids will be publicly opened and read aloud at 10:15 AM (local time) at Hamilton Southeastern Schools, 13485 Cumberland Road, Fishers, In 46038.

All work for the complete construction of the Project will be under one or more sub-contracts with the Construction Manager based on bids received from pre-qualified tier 1 bidders and on combinations awarded. Award of contracts will be in accordance with Indiana Public Bidding Laws. The Construction Manager will not self-perform any of the work on this project.

Construction shall be in full accordance with the Bidding Documents which are on file with the Owner and Construction Manager and may be examined by prospective bidders at the following locations:

Office of the Construction Manager
The Skillman Corporation
3834 S. Emerson Avenue, Building A
Indianapolis, IN 46203

The Skillman Plan Room

www.skillmanplanroom.com

Pre-Qualified Bidders, sub-subcontractors and material suppliers must place an order on **www.skillmanplanroom.com** to be able to download documents electronically or request printed documents. There is no cost for downloading the bidding documents. Bidders desiring printed documents shall pay for the cost of printing, shipping and handling. Reprographic Services are provided by:

Eastern Engineering 9901 Allisonville Road, Fishers, IN 46038, Phone 317-598-0661.

A Pre-Bid Conference will be held on August 1, 2024, 1:00PM (local time), Check in will be required after entering building. Attendance by bidders is optional, but recommended, to clarify or answer questions concerning the Drawings and Project Manual for the Project.

Microsoft Teams Need help?
Join the meeting now
Meeting ID: 267 803 860 953
Passcode: MvFN5T
Dial in by phone
+1 317-762-3960,,42730108# United States, Indianapolis
Find a local number
Phone conference ID: 427 301 08#

The following bid categories are under consideration for this project:

1 – General Trades
2 – Masonry
3 – Metal Studs & Drywall
4 – Aluminum Storefont & Glazing
5 – Flooring
6 - Painting
7 – Casework
8 – Food Service
9 – Fire Protection
10 – Plumbing & HVAC
11 - Electrical

Bid security in the amount of ten percent (10%) of the Bid must accompany each Bid in accordance with the Instructions to Bidders.

The Owner and CMc reserve the right, in their sole discretion unless otherwise prohibited by law, to (i) waive any informalities and irregularities in bids received; (ii) reject any or all bids for a particular bid package; and (iii) award subcontracts to the lowest responsive and responsible bidder, provided that the bid has been submitted in accordance with the requirements of the bidding documents.

Unless otherwise prohibited by law, the Owner and CMc shall have the right to accept alternates in any order or combination, unless otherwise specifically provided in the bidding documents, and to determine the lowest responsive and responsible bidder on the basis of the sum of the base bid and alternates accepted.

The successful Bidders will be required to furnish Dual Obligee Performance and Payment Bonds for one hundred percent (100%) of their Contract amount prior to execution of Contracts.

Subcontractors submitting bids for the performance of Work as specified in this building Project should make such Bids to **The Skillman Corporation.** Contractors shall enter into a sub-contract with The Skillman Corporation as the Construction Manager CMc for the Owner.

The Owner and the Construction Manager reserve their rights to accept or reject any Bid (or combination of Bids) and to waive any irregularities in bidding. All Bids may be held for a period not to exceed **60** days before awarding contracts.

THE SKILLMAN CORPORATION

END OF SECTION 00 02 00

Notice to Sub-Contractors - Pre-Qualification

Date: July 22, 2024

Re: **Renovation of Fall Creek Intermediate**
12011 Olio Road
Fishers, IN 46038

The Skillman Corporation Project No. 223730

All first tier subcontractors wishing to bid and contract for this project must be prequalified in order to participate in the bidding process and to be considered for an award of contract. The prequalification process will be administered by the Owner's Construction Manager as Constructor (CMc), The Skillman Corporation. The following are the Bid Categories under consideration for this project.

1 – General Trades
2 – Masonry
3 – Metal Studs & Drywall
4 – Aluminum Storefont & Glazing
5 – Flooring
6 - Painting
7 – Casework
8 – Food Service
9 – Fire Protection
10 – Plumbing & HVAC
11 - Electrical

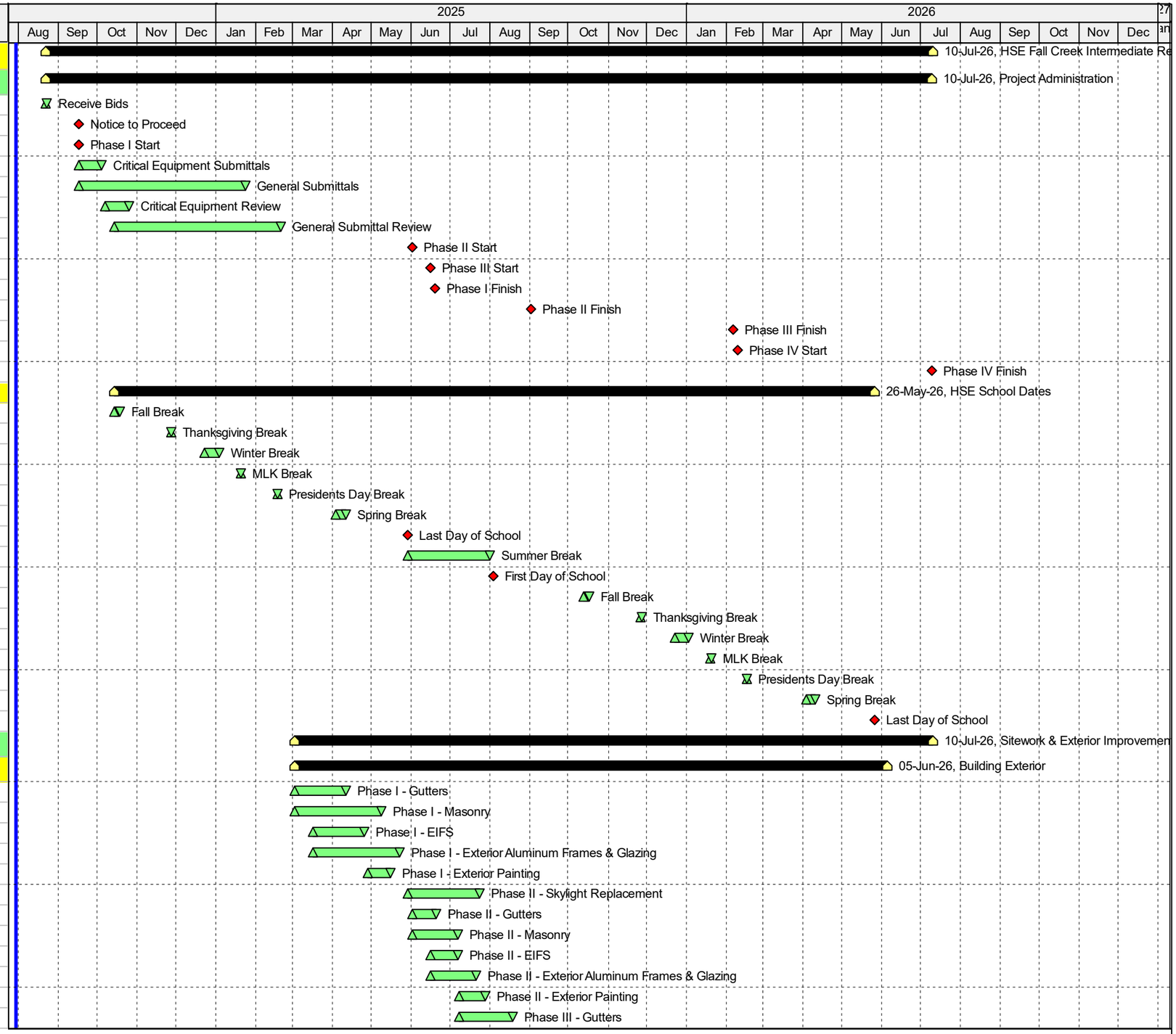
In order to prequalify, first tier subcontractors must submit their completed Prequalification Form conforming to the requirements set forth below no later than August 15, 2024. The CMc reserves the right to extend this deadline in its sole discretion. The Prequalification Form is available for pick up by interested first tier subcontractors at The Skillman Corporation's Office. Prequalification Form will also be available via email, requests shall be sent to Andrew Huehls at ahuehls@skillman.com. Bid documents will be available on or after July 25, 2024.

Prequalification requirements set forth by the CMc and Hamilton Southeastern School Corporation are as follows:

- Performance & Payment Bond from company with a rating of A+ VII, A VII or A- VII by A. M. Best and lawfully authorized to do business in the jurisdiction in which the Project is located.
- Must be able to obtain Insurance in the amount of $3 Million Commercial General Liability; $3 Million Aggregate; $5 Million Umbrella from company with a rating of A+ VII, A VII or A- VII by A. M. Best and lawfully authorized to do business in the jurisdiction in which the Project is located.
- Provide an arbitration and litigation history on all construction contracts in the last 10 years.
- Provide record of safety history to include EMR, DART, TRIR and history of OSHA violations.
- Provide history of contracting with or hiring minority, women, and veteran business enterprises on prior projects and include date of projects.
- Sub-contractors must commit and be able to comply with applicable laws including but not limited to the requirements detailed in the bidding documents and found in applicable public works and contract statutes.
- First tier subcontractors may be found to be unqualified for this project if the CMc, Architect, or Owner determines that: (i) the above requirements have not been satisfied, (ii) a history of non-compliance by the first tier subcontractor that has negatively impacted the schedule, budget, safety or quality of a project, (iii) if the first tier subcontractor's experience on comparable projects is insufficient, or (iv) the first tier subcontractor's available manpower is insufficient based on its current workload.

Hamilton Southeastern Schools

Activity Name	Original Duration	Start	Finish
HSE Fall Creek Intermediate Renovation	481	22-Aug-24	10-Jul-26
Project Administration	480	22-Aug-24	10-Jul-26
Receive Bids	1	22-Aug-24*	22-Aug-24
Notice to Proceed	0	16-Sep-24*	
Phase I Start	0	16-Sep-24*	
Critical Equipment Submittals	15	16-Sep-24*	04-Oct-24
General Submittals	90	16-Sep-24	23-Jan-25
Critical Equipment Review	15	07-Oct-24	25-Oct-24
General Submittal Review	90	14-Oct-24	20-Feb-25
Phase II Start	0	02-Jun-25*	
Phase III Start	0	16-Jun-25*	
Phase I Finish	0		20-Jun-25*
Phase II Finish	0		02-Sep-25*
Phase III Finish	0		06-Feb-26*
Phase IV Start	0	09-Feb-26*	
Phase IV Finish	0		10-Jul-26*
HSE School Dates	411	14-Oct-24	26-May-26
Fall Break	5	14-Oct-24*	18-Oct-24
Thanksgiving Break	1	27-Nov-24*	27-Nov-24
Winter Break	8	23-Dec-24*	03-Jan-25
MLK Break	1	20-Jan-25*	20-Jan-25
Presidents Day Break	1	17-Feb-25*	17-Feb-25
Spring Break	6	04-Apr-25*	11-Apr-25
Last Day of School	0		29-May-25*
Summer Break	46	29-May-25	01-Aug-25
First Day of School	0	04-Aug-25*	
Fall Break	5	13-Oct-25*	17-Oct-25
Thanksgiving Break	1	26-Nov-25*	26-Nov-25
Winter Break	9	22-Dec-25*	02-Jan-26
MLK Break	1	19-Jan-26*	19-Jan-26
Presidents Day Break	1	16-Feb-26*	16-Feb-26
Spring Break	6	03-Apr-26*	10-Apr-26
Last Day of School	0		26-May-26*
Sitework & Exterior Improvements	349	03-Mar-25	10-Jul-26
Building Exterior	324	03-Mar-25	05-Jun-26
Phase I - Gutters	30	03-Mar-25	11-Apr-25
Phase I - Masonry	50	03-Mar-25*	09-May-25
Phase I - EIFS	30	17-Mar-25	25-Apr-25
Phase I - Exterior Aluminum Frames & Glazing	50	17-Mar-25	23-May-25
Phase I - Exterior Painting	15	28-Apr-25	16-May-25
Phase II - Skylight Replacement	40	29-May-25	24-Jul-25
Phase II - Gutters	15	02-Jun-25	20-Jun-25
Phase II - Masonry	25	02-Jun-25*	07-Jul-25
Phase II - EIFS	15	16-Jun-25	07-Jul-25
Phase II - Exterior Aluminum Frames & Glazing	25	16-Jun-25	21-Jul-25
Phase II - Exterior Painting	15	08-Jul-25	28-Jul-25
Phase III - Gutters	30	08-Jul-25	18-Aug-25



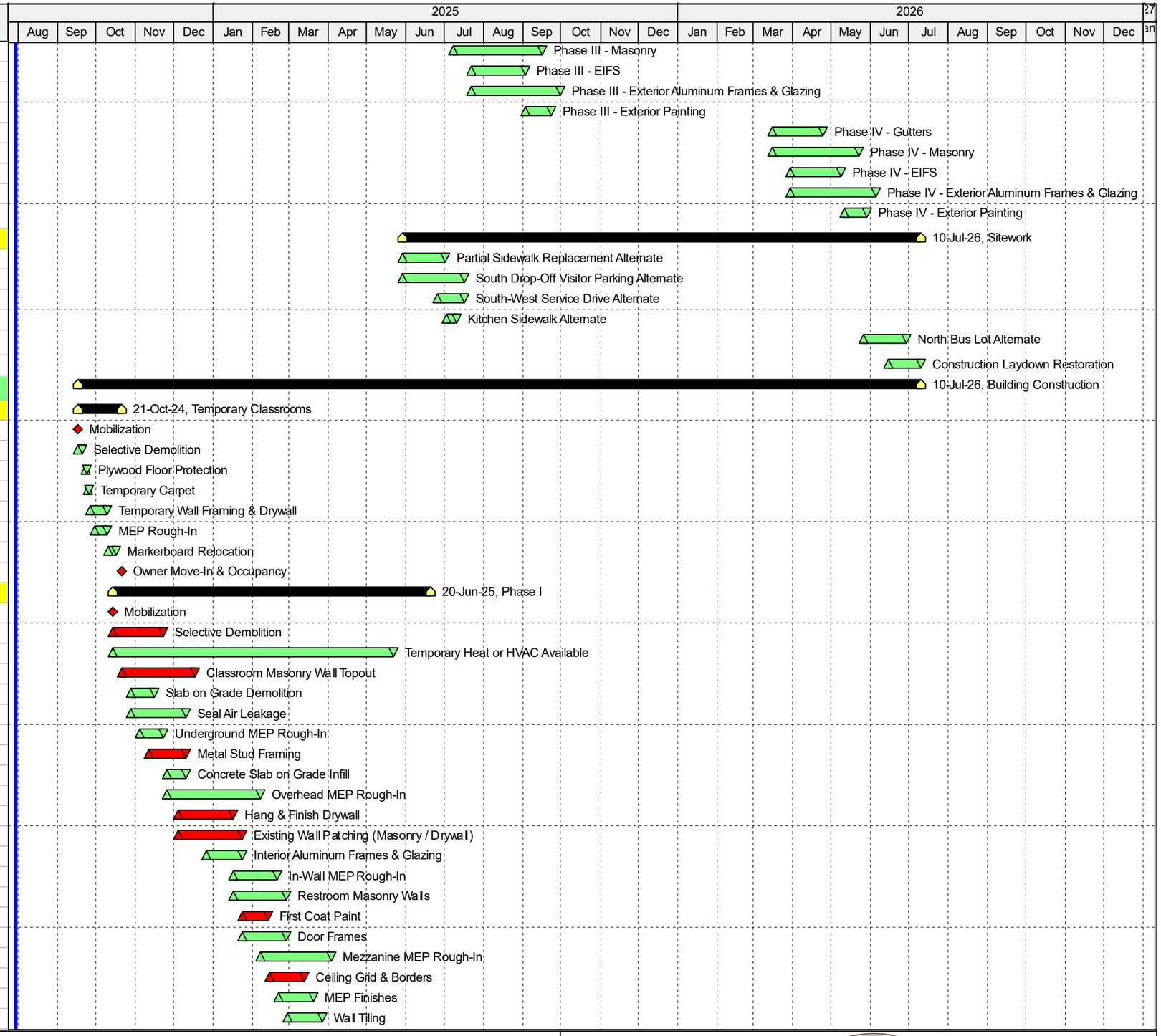
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

HSE Fall Creek Intermediate Renovation

Guideline Schedule

SKILLMAN

Activity Name	Original Duration	Start	Finish
Phase III - Masonry	50	08-Jul-25*	16-Sep-25
Phase III - EIFS	30	22-Jul-25	02-Sep-25
Phase III - Exterior Aluminum Frames & Glazing	50	22-Jul-25	30-Sep-25
Phase III - Exterior Painting	15	03-Sep-25	23-Sep-25
Phase IV - Gutters	30	16-Mar-26	24-Apr-26
Phase IV - Masonry	50	16-Mar-26*	22-May-26
Phase IV - EIFS	30	30-Mar-26	08-May-26
Phase IV - Exterior Aluminum Frames & Glazing	50	30-Mar-26	05-Jun-26
Phase IV - Exterior Painting	15	11-May-26	29-May-26
Sitework	287	29-May-25	10-Jul-26
Partial Sidewalk Replacement Alternate	25	29-May-25	02-Jul-25
South Drop-Off Visitor Parking Alternate	35	29-May-25	17-Jul-25
South-West Service Drive Alternate	15	26-Jun-25	17-Jul-25
Kitchen Sidewalk Alternate	5	03-Jul-25	10-Jul-25
North Bus Lot Alternate	25	26-May-26	29-Jun-26
Construction Laydown Restoration	20	15-Jun-26*	10-Jul-26
Building Construction	465	16-Sep-24	10-Jul-26
Temporary Classrooms	26	16-Sep-24	21-Oct-24
Mobilization	0	16-Sep-24*	
Selective Demolition	5	16-Sep-24	20-Sep-24
Plywood Floor Protection	1	23-Sep-24	23-Sep-24
Temporary Carpet	2	24-Sep-24	25-Sep-24
Temporary Wall Framing & Drywall	10	26-Sep-24	09-Oct-24
MEP Rough-In	8	30-Sep-24	09-Oct-24
Markerboard Relocation	5	10-Oct-24	16-Oct-24
Owner Move-In & Occupancy	0		21-Oct-24*
Phase I	175	14-Oct-24	20-Jun-25
Mobilization	0	14-Oct-24*	
Selective Demolition	30	14-Oct-24	22-Nov-24
Temporary Heat or HVAC Available	155	14-Oct-24	22-May-25
Classroom Masonry Wall Topout	40	21-Oct-24	17-Dec-24
Slab on Grade Demolition	15	28-Oct-24	15-Nov-24
Seal Air Leakage	30	28-Oct-24	10-Dec-24
Underground MEP Rough-In	15	04-Nov-24	22-Nov-24
Metal Stud Framing	20	11-Nov-24	10-Dec-24
Concrete Slab on Grade Infill	10	25-Nov-24	10-Dec-24
Overhead MEP Rough-In	50	25-Nov-24	06-Feb-25
Hang & Finish Drywall	30	04-Dec-24	16-Jan-25
Existing Wall Patching (Masonry / Drywall)	35	04-Dec-24	23-Jan-25
Interior Aluminum Frames & Glazing	20	26-Dec-24	23-Jan-25
In-Wall MEP Rough-In	25	17-Jan-25	20-Feb-25
Restroom Masonry Walls	30	17-Jan-25	27-Feb-25
First Coat Paint	15	24-Jan-25	13-Feb-25
Door Frames	25	24-Jan-25	27-Feb-25
Mezzanine MEP Rough-In	40	07-Feb-25	03-Apr-25
Ceiling Grid & Borders	20	14-Feb-25	13-Mar-25
MEP Finishes	20	21-Feb-25	20-Mar-25
Wall Tiling	20	28-Feb-25	27-Mar-25



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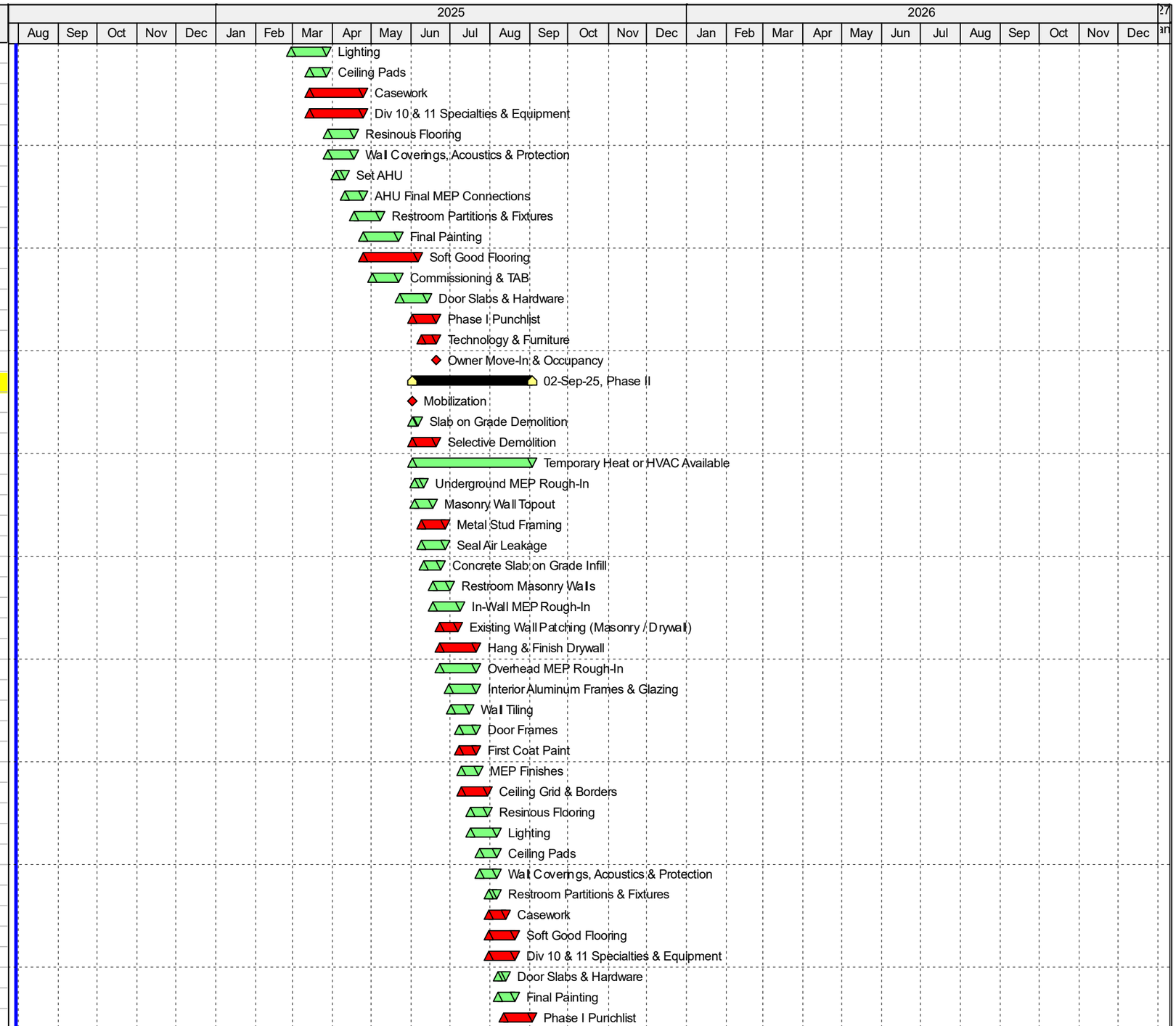
HSE Fall Creek Intermediate Renovation

Guideline Schedule

SKILLMAN

Activity Name	Original Duration	Start	Finish
Lighting	20	28-Feb-25	27-Mar-25
Ceiling Pads	10	14-Mar-25	27-Mar-25
Casework	30	14-Mar-25	24-Apr-25
Div 10 & 11 Specialties & Equipment	30	14-Mar-25	24-Apr-25
Resinous Flooring	15	28-Mar-25	17-Apr-25
Wall Coverings, Acoustics & Protection	15	28-Mar-25	17-Apr-25
Set AHU	5	04-Apr-25	10-Apr-25
AHU Final MEP Connections	10	11-Apr-25	24-Apr-25
Restroom Partitions & Fixtures	15	18-Apr-25	08-May-25
Final Painting	20	25-Apr-25	22-May-25
Soft Good Flooring	30	25-Apr-25	06-Jun-25
Commissioning & TAB	15	02-May-25	22-May-25
Door Slabs & Hardware	15	23-May-25	13-Jun-25
Phase I Punchlist	15	02-Jun-25	20-Jun-25
Technology & Furniture	10	09-Jun-25	20-Jun-25
Owner Move-In & Occupancy	0		20-Jun-25*
Phase II	65	02-Jun-25	02-Sep-25
Mobilization	0	02-Jun-25*	
Slab on Grade Demolition	5	02-Jun-25	06-Jun-25
Selective Demolition	15	02-Jun-25	20-Jun-25
Temporary Heat or HVAC Available	65	02-Jun-25	02-Sep-25
Underground MEP Rough-In	5	04-Jun-25	10-Jun-25
Masonry Wall Topout	10	04-Jun-25	17-Jun-25
Metal Stud Framing	15	09-Jun-25	27-Jun-25
Seal Air Leakage	15	09-Jun-25	27-Jun-25
Concrete Slab on Grade Infill	10	11-Jun-25	24-Jun-25
Restroom Masonry Walls	10	18-Jun-25	01-Jul-25
In-Wall MEP Rough-In	15	18-Jun-25	09-Jul-25
Existing Wall Patching (Masonry / Drywall)	10	23-Jun-25	07-Jul-25
Hang & Finish Drywall	20	23-Jun-25	21-Jul-25
Overhead MEP Rough-In	20	23-Jun-25	21-Jul-25
Interior Aluminum Frames & Glazing	15	30-Jun-25	21-Jul-25
Wall Tiling	10	02-Jul-25	16-Jul-25
Door Frames	10	08-Jul-25	21-Jul-25
First Coat Paint	10	08-Jul-25	21-Jul-25
MEP Finishes	10	10-Jul-25	23-Jul-25
Ceiling Grid & Borders	15	10-Jul-25	30-Jul-25
Resinous Flooring	10	17-Jul-25	30-Jul-25
Lighting	15	17-Jul-25	06-Aug-25
Ceiling Pads	10	24-Jul-25	06-Aug-25
Wall Coverings, Acoustics & Protection	10	24-Jul-25	06-Aug-25
Restroom Partitions & Fixtures	5	31-Jul-25	06-Aug-25
Casework	10	31-Jul-25	13-Aug-25
Soft Good Flooring	15	31-Jul-25	20-Aug-25
Div 10 & 11 Specialties & Equipment	15	31-Jul-25	20-Aug-25
Door Slabs & Hardware	5	07-Aug-25	13-Aug-25
Final Painting	10	07-Aug-25	20-Aug-25
Phase I Punchlist	15	12-Aug-25	02-Sep-25



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HSE Fall Creek Intermediate Renovation

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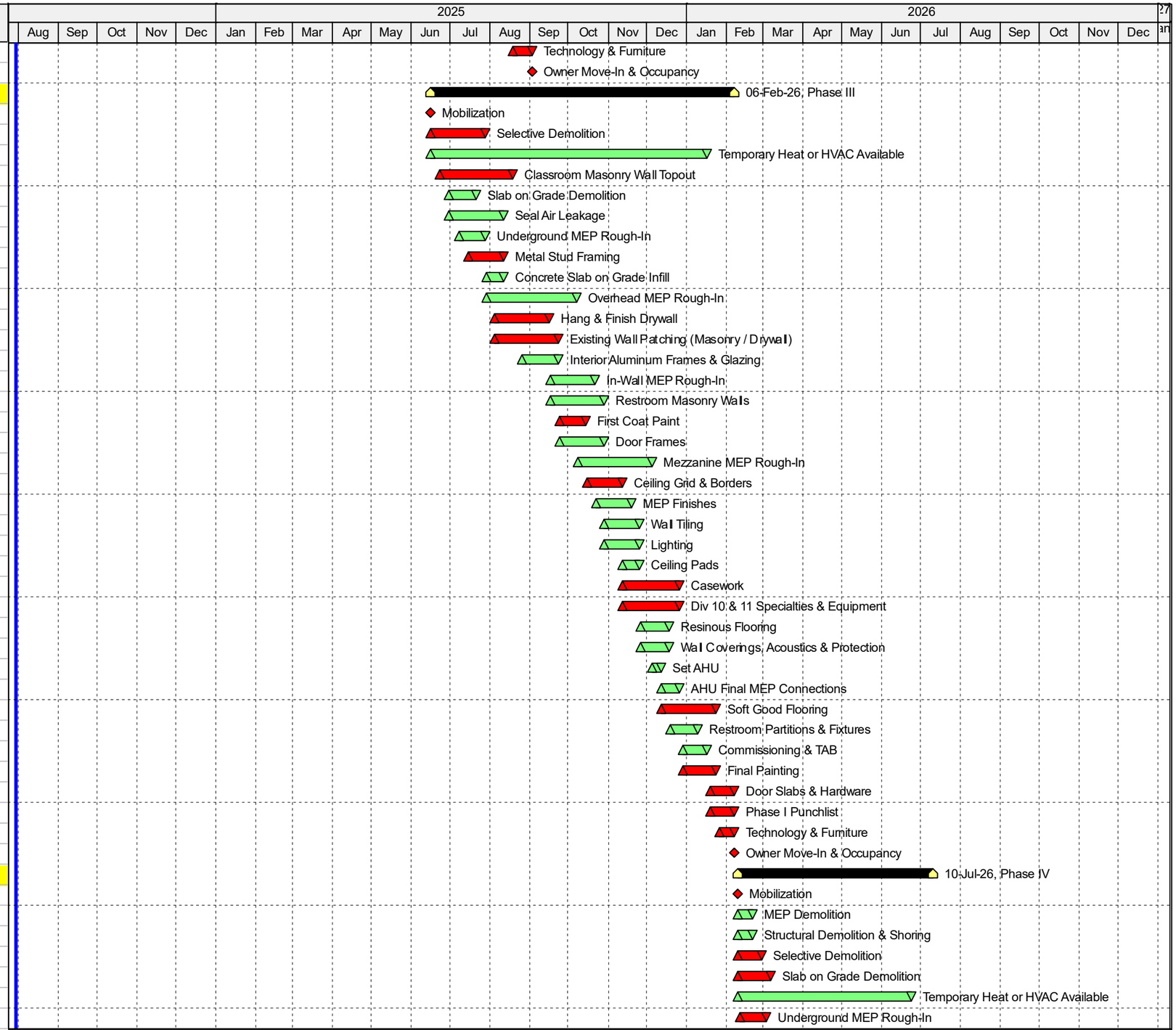
SKILLMAN

Activity Name	Original Duration	Start	Finish
Technology & Furniture	10	19-Aug-25	02-Sep-25
Owner Move-In & Occupancy	0		02-Sep-25*
Phase III	165	16-Jun-25	06-Feb-26
Mobilization	0	16-Jun-25*	
Selective Demolition	30	16-Jun-25	28-Jul-25
Temporary Heat or HVAC Available	150	16-Jun-25	16-Jan-26
Classroom Masonry Wall Topout	40	23-Jun-25	18-Aug-25
Slab on Grade Demolition	15	30-Jun-25	21-Jul-25
Seal Air Leakage	30	30-Jun-25	11-Aug-25
Underground MEP Rough-In	15	08-Jul-25	28-Jul-25
Metal Stud Framing	20	15-Jul-25	11-Aug-25
Concrete Slab on Grade Infill	10	29-Jul-25	11-Aug-25
Overhead MEP Rough-In	50	29-Jul-25	07-Oct-25
Hang & Finish Drywall	30	05-Aug-25	16-Sep-25
Existing Wall Patching (Masonry / Drywall)	35	05-Aug-25	23-Sep-25
Interior Aluminum Frames & Glazing	20	26-Aug-25	23-Sep-25
In-Wall MEP Rough-In	25	17-Sep-25	21-Oct-25
Restroom Masonry Walls	30	17-Sep-25	28-Oct-25
First Coat Paint	15	24-Sep-25	14-Oct-25
Door Frames	25	24-Sep-25	28-Oct-25
Mezzanine MEP Rough-In	40	08-Oct-25	04-Dec-25
Ceiling Grid & Borders	20	15-Oct-25	11-Nov-25
MEP Finishes	20	22-Oct-25	18-Nov-25
Wall Tiling	20	29-Oct-25	25-Nov-25
Lighting	20	29-Oct-25	25-Nov-25
Ceiling Pads	10	12-Nov-25	25-Nov-25
Casework	30	12-Nov-25	26-Dec-25
Div 10 & 11 Specialties & Equipment	30	12-Nov-25	26-Dec-25
Resinous Flooring	15	26-Nov-25	18-Dec-25
Wall Coverings, Acoustics & Protection	15	26-Nov-25	18-Dec-25
Set AHU	5	05-Dec-25	11-Dec-25
AHU Final MEP Connections	10	12-Dec-25	26-Dec-25
Soft Good Flooring	30	12-Dec-25	23-Jan-26
Restroom Partitions & Fixtures	15	19-Dec-25	09-Jan-26
Commissioning & TAB	15	29-Dec-25	16-Jan-26
Final Painting	20	29-Dec-25	23-Jan-26
Door Slabs & Hardware	15	19-Jan-26	06-Feb-26
Phase I Punchlist	15	19-Jan-26	06-Feb-26
Technology & Furniture	10	26-Jan-26	06-Feb-26
Owner Move-In & Occupancy	0		06-Feb-26*
Phase IV	110	09-Feb-26	10-Jul-26
Mobilization	0	09-Feb-26*	
MEP Demolition	10	09-Feb-26	20-Feb-26
Structural Demolition & Shoring	10	09-Feb-26	20-Feb-26
Selective Demolition	15	09-Feb-26	27-Feb-26
Slab on Grade Demolition	20	09-Feb-26	06-Mar-26
Temporary Heat or HVAC Available	97	09-Feb-26	23-Jun-26
Underground MEP Rough-In	15	11-Feb-26	03-Mar-26



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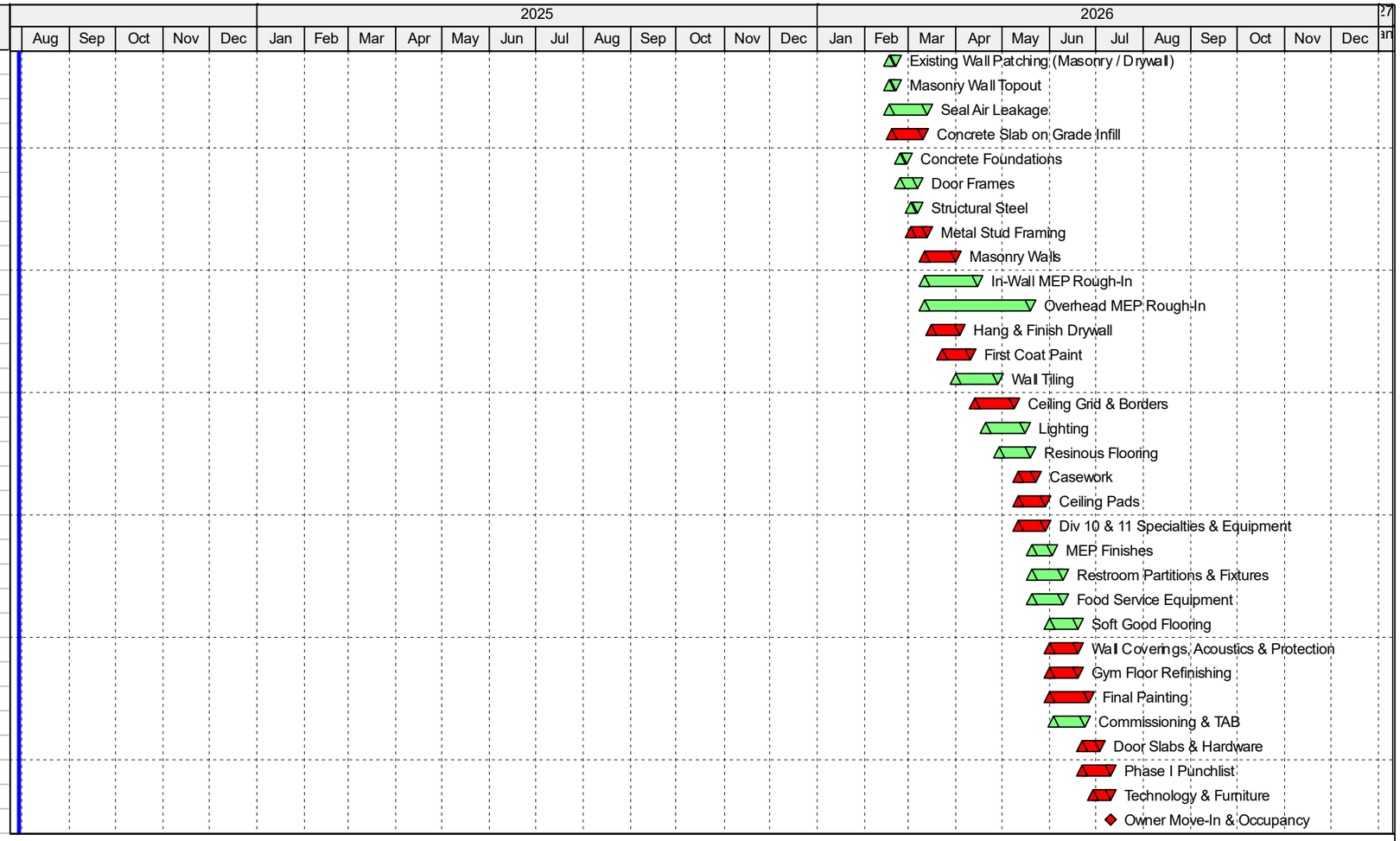
Guideline Schedule

SKILLMAN

Activity Name	Original Duration	Start	Finish
Existing Wall Patching (Masonry / Drywall)	5	16-Feb-26	20-Feb-26
Masonry Wall Topout	5	16-Feb-26	20-Feb-26
Seal Air Leakage	20	16-Feb-26	13-Mar-26
Concrete Slab on Grade Infill	15	18-Feb-26	10-Mar-26
Concrete Foundations	5	23-Feb-26	27-Feb-26
Door Frames	10	23-Feb-26	06-Mar-26
Structural Steel	5	02-Mar-26	06-Mar-26
Metal Stud Framing	10	02-Mar-26	13-Mar-26
Masonry Walls	15	11-Mar-26	31-Mar-26
In-Wall MEP Rough-In	25	11-Mar-26	14-Apr-26
Overhead MEP Rough-In	50	11-Mar-26	19-May-26
Hang & Finish Drywall	15	16-Mar-26	03-Apr-26
First Coat Paint	15	23-Mar-26	10-Apr-26
Wall Tiling	20	01-Apr-26	28-Apr-26
Ceiling Grid & Borders	20	13-Apr-26	08-May-26
Lighting	20	20-Apr-26	15-May-26
Resinous Flooring	15	29-Apr-26	19-May-26
Casework	10	11-May-26	22-May-26
Ceiling Pads	15	11-May-26	29-May-26
Div 10 & 11 Specialties & Equipment	15	11-May-26	29-May-26
MEP Finishes	10	20-May-26	02-Jun-26
Restroom Partitions & Fixtures	15	20-May-26	09-Jun-26
Food Service Equipment	15	20-May-26	09-Jun-26
Soft Good Flooring	15	01-Jun-26	19-Jun-26
Wall Coverings, Acoustics & Protection	15	01-Jun-26	19-Jun-26
Gym Floor Refinishing	15	01-Jun-26	19-Jun-26
Final Painting	20	01-Jun-26	26-Jun-26
Commissioning & TAB	15	03-Jun-26	23-Jun-26
Door Slabs & Hardware	10	22-Jun-26	03-Jul-26
Phase I Punchlist	15	22-Jun-26	10-Jul-26
Technology & Furniture	10	29-Jun-26	10-Jul-26
Owner Move-In & Occupancy	0		10-Jul-26*

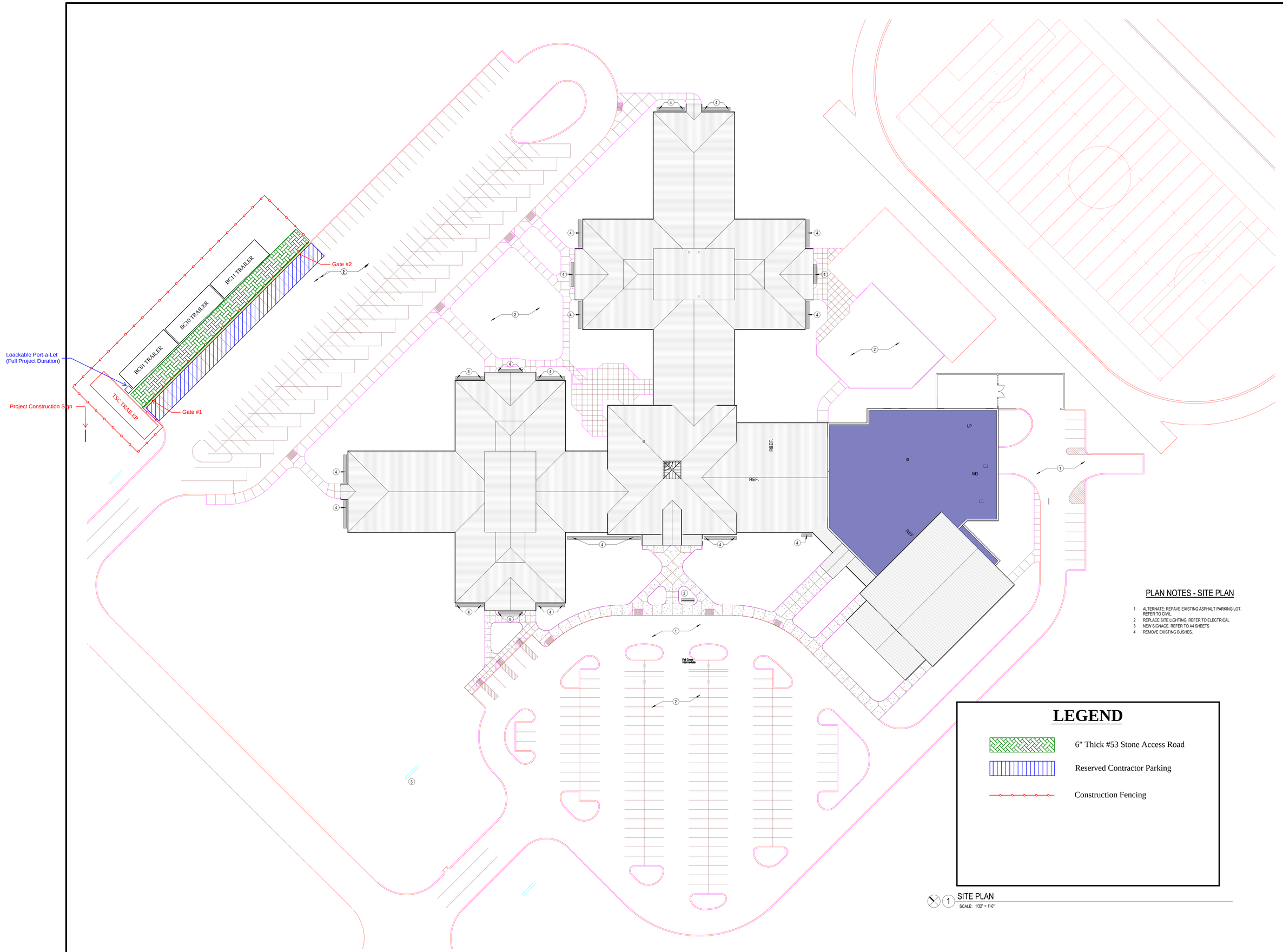


Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

HSE Fall Creek Intermediate Renovation

Guideline Schedule

SKILLMAN



PLAN NOTES - SITE PLAN

1 ALTERNATE: REPAVE EXISTING ASPHALT PARKING LOT. REFER TO CIVIL.
2 REPLACE SITE LIGHTING. REFER TO ELECTRICAL
3 NEW SIGNAGE. REFER TO A4 SHEETS
4 REMOVE EXISTING BUSHES.

LEGEND

- 6" Thick #53 Stone Access Road
- Reserved Contractor Parking
- Construction Fencing

1 SITE PLAN
SCALE: 1/32" = 1'-0"

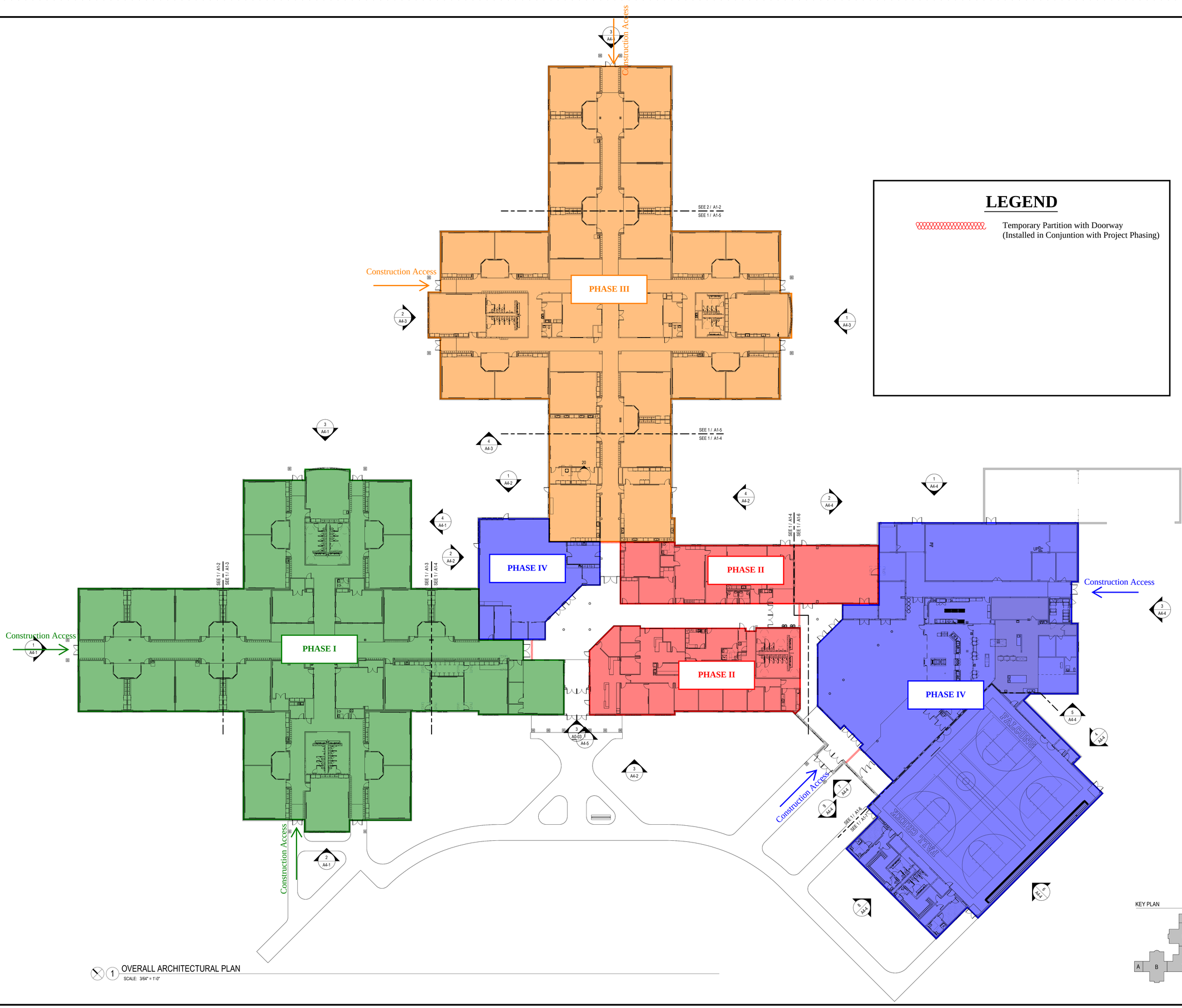
krM Architecture+

kbsd CONSULTING

REVISIONS

06.05.24
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd, Fishers, IN 46037
CONSTRUCTION DOCUMENTS

EXTERIOR LOGISTICS PLAN

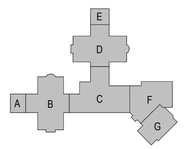


LEGEND

Temporary Partition with Doorway
(Installed in Conjuntion with Project Phasing)

1 OVERALL ARCHITECTURAL PLAN
SCALE: 3/64" = 1'-0"

KEY PLAN



REVISIONS

06.05.24
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd. Fishers, IN 46037
CONSTRUCTION DOCUMENTS

INTERIOR LOGISTICS PLAN

Addendum #1
Hamilton Southeastern Schools
Fall Creek Intermediate Renovations

Date: July 29, 2024
Project: Fall Creek Intermediate School
Project #: 23055
Pages: 1 of 2 pages
Bid Dates: **Thursday, August 22, 2024, at 10:00AM**

General Note:

The original Specifications and Drawings dated July 12, 2024, for the project referenced above are amended as noted in this Addendum No. 1. Receipt of this Addendum and any subsequent Addenda must be acknowledged on the Bid Form. Items changed or added by this addendum are to take precedence over the items or descriptions of the work in the project manual and the drawings. Items not mentioned in this addendum are to remain as described in the original plans and specifications.

Specifications Items:

Section 09 51 00 – Acoustic Ceilings

Reference 2.02 SUSPENSION SYSTEMS. Add the following:
C. Concealed Suspension System: Hot-dip galvanized steel grid and cap.
1. Structural Classification: Intermediate-duty, when tested in accordance with ASTM C635/C635M.
2. Products:
a. Armstrong World Industries, Inc; FrameAll Drywall Grid Solution: www.armstrongceilings.com/#sle.

Drawing Set Items:

Cover Sheet – Volume 1 & Volume 2

- Revise to include civil sheets and Fishers standard details

Sheet G0-4 Temporary Classroom Plan

- Add note to protect gymnasium floor with ¾" plywood prior to temporary carpet installation

Civil

- 11 sheets added to set. See attachments.

Fishers Standards

- 29 sheets added to set. See attachments.

Sheet A2-4 Reflected Ceiling Plan – Area D

- Adjust bulkhead ceiling height from 10'-0" to 9'-6"
- Add note number 27 to extend and match existing drywall reveals

Sheet A2-5 Reflected Ceiling Plan – Area F

- Add note number 26 for access panel location in wood ceiling

Sheet A6-2 Wall Sections & Details

- Add detail 4/A6-2

Sheet A8-2 Ext. Frame Elevations

- Revise detail 20/A8-2

Sheet A8-5 Int. Frame Details

- Add detail "Typ. VF-1 on Full Height Glass"

Attachments:

1. Volume 1 Cover Sheet
2. Volume 2 Cover Sheet
3. Sheet G0-4 Temporary Classroom Plan
4. Civil (C100, C101, C102, C201, C202, C301, C302, C401, C402, C403, C901)
5. Fishers Standards (1-29)
6. Sheet A2-4 Reflected Ceiling Plan – Area D
7. Sheet A2-5 Reflected Ceiling Plan – Area F
8. Sheet A6-2 Wall Sections & Details
9. Sheet A8-2 Ext. Frame Elevations
10. Sheet A8-5 Int. Frame Details

END

Addendum #1
Hamilton Southeastern Schools
Fall Creek Intermediate Renovations

Date: July 29, 2024
Project: Fall Creek Intermediate Renovations
Project #: 23055
Pages: 1 of 4 pages
Bid Dates: **Thursday, August 22, 2024, at 10:00AM**

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Specifications Items:

1. Specification Section 260943.23 – RELAY BASED LIGHTING CONTROLS
    a. New section added to project.
2. Specification Section 27 11 00 – COMMUNICATIONS EQUIPMENT ROOM FITTINGS
    a. Added Paragraph 2.03 in its entirety.

Drawing Set Items:

Sheet M4-1 ENLARGED MECHANICAL PLANS

1. Added plan note #19.
2. Added low voltage controls transformer.

Sheet M4-2 ENLARGED MECHANICAL PLANS

1. Added plan note #19.
2. Added low voltage controls transformer.

Sheet M4-3 ENLARGED MECHANICAL PLANS

1. Added plan note #37, 38 & 39.
2. Added low voltage controls transformers.

Sheet M5-1 MECHANICAL DETAILS

1. Revised detail #6 – Chiller Piping Detail.

Sheet T4-1 TECHNOLOGY ENLARGED PLANS

1. Revised 4 post rack to be an equipment cabinet.
2. Revised equipment cabinet label.

Sheet T4-2 TECHNOLOGY ENLARGED PLANS

1. Revised 4 post rack to be an equipment cabinet.
2. Revised equipment cabinet label.
3. Revised 4 post rack to be an equipment cabinet.
4. Revised equipment cabinet label.

Sheet T5-4 TECHNOLOGY DETAILS

1. Added sound system cabinet elevation.
2. Revised cafeteria video equipment part number.

Sheet T5-5 TECHNOLOGY DETAILS

1. Revised gymnasium video equipment part number.

Sheet EP1-2

1. Revised circuit numbers for equipment shown.

Sheet EP1-3

1. Revised electrical power device layout in MDF and IDF data rooms.
2. Revised circuit numbers for equipment shown.

Sheet EP1-4

1. Revised circuit numbers for equipment shown.

Sheet EP1-5

1. Revised circuit numbers for equipment shown.

Sheet EP1-6

1. Revised electrical power device layout in the IDF room.
2. Revised circuit numbers for equipment shown.

Sheet E4-1

1. Added electrical connection for new mechanical equipment.

Sheet E4-2

1. Added electrical connection for new mechanical equipment.

Sheet E4-3

1. Added electrical connections for new mechanical equipment.
2. Revised circuit numbers for equipment shown.

Sheet E6-1

1. Revised electrical connection information in the Equipment Electrical Connections Schedule.

Sheet E6-2

1. Revised panel schedules for panels MDP and PDP.

Sheet E6-3

1. Revised panel schedules for panels 1CP and 1DC.

Sheet E6-4

1. Revised panel schedules for panels 2DP, 3CP, 2CP, 3BP, 2DC, and 2BP.

Sheet E6-5

1. Revised panel schedules for panels FP, CC, and 3DP.

Sheet E6-7

1. Revised panel schedules for panels T1LE.

Sheet E6-8

1. Revised panel schedules for panels M1LE and M1HE.

Sheet E9-3

1. Removed AHU-3 from New Electrical Riser Diagram - MDP. AHU-3 has been revised to be fed from panel M1HE.

Sheet E9-4

1. Revised riser diagram to include new UPS.
2. Revised name of panel C1LE to T1LE.

Attachments:

1. M4-1
2. M4-2
3. M4-3
4. M5-1
5. T4-1
6. T4-2
7. T5-4
8. T5-5
9. EP1-2
10. EP1-3
11. EP1-4
12. EP1-5
13. EP1-6
14. E4-1
15. E4-2
16. E4-3
17. E6-1
18. E6-2
19. E6-3
20. E6-4
21. E6-5
22. E6-7
23. E6-8
24. E9-3
25. E9-4

END

SECTION 26 09 43.23
RELAY-BASED LIGHTING CONTROLS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Lighting control relay panels.
   2. Manual switches and cover plates.
   3. Field-mounted signal sources.
   4. Conductors and cables.

B. Related Requirements:
   1. Section 260010 "Supplemental Requirements for Electrical" for additional abbreviations, definitions, submittals, qualifications, testing agencies, and other Project requirements applicable to Work specified in this Section.
   2. Section 260011 "Facility Performance Requirements for Electrical" for seismic-load, wind-load, acoustical, and other field conditions applicable to Work specified in this Section.

1.02 ACTION SUBMITTALS

A. Product Data:
   1. For each type of product.

B. Shop Drawings: For each relay panel and related equipment.
   1. Include dimensioned plans, elevations, sections, and details. Show tabulations of installed devices, equipment features, and ratings.
   2. Detail enclosure types and details for types other than Type 1.
   3. Detail wiring partition configuration, current, and voltage ratings.
   4. Short-circuit current rating of relays.
   5. Address Drawing: Reflected ceiling plan and floor plans, showing connected luminaires, address for each luminaire, and luminaire groups. Base plans on construction plans, using the same legend, symbols, and schedules.
   6. Point List and Data Bus Load: Summary list of all control devices, sensors, ballasts, and other loads. Include percentage of rated connected load and device addresses.
   7. Wire Termination Diagrams and Schedules: Coordinate nomenclature and presentation with Drawings and block diagram. Differentiate between manufacturer-installed and field-installed wiring.
   8. Block Diagram: Show interconnections between components specified in this Section and devices furnished with power distribution system components. Indicate data communication paths and identify networks, data buses, data gateways, concentrators, and other devices to be used. Describe characteristics of network and other data communication lines.
   9. Submit evidence that lighting controls are compatible with connected monitoring and control devices and systems specified.
      a. Show interconnecting signal and control wiring, and interface devices that show compatibility of inputs and outputs.
      b. For control interfaces and adapters, list network protocols and provide statements from manufacturers that input and output devices comply with interoperability requirements of the protocol.

C. Field quality-control reports.

1.03 INFORMATIONAL SUBMITTALS

A. Sample warranties.

1.04 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Lighting Control Relays: Equal to 80 percent of amount installed for each size indicated, but no fewer than 12.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Handle and prepare panels for installation in accordance with NECA 407.

1.06 WARRANTY

A. Special Manufacturer Extended Warranty: Manufacturer warrants that components of standalone multi-preset modular dimming controls perform in accordance with specified requirements and agrees to provide repair or replacement of components that fail to perform as specified within extended warranty period.
   1. Initial Extended Warranty Period: Two year(s) from date of Substantial Completion, for labor, materials, and equipment.
   2. Follow-on Extended Warranty Period: Eight year(s) from date of Substantial Completion, for materials that failed because of transient voltage surges only, f.o.b. the nearest shipping point to Project site.

PART 2 PRODUCTS

2.01 SYSTEM DESCRIPTION

A. Sequence of Operations: Input signal from field-mounted manual switches, or digital signal sources, must open or close one or more lighting control relays in the lighting control panels. Any combination of inputs must be programmable to any number of control relays.
B. Surge Protective Device: Factory installed as an integral part of control components or field-mounted surge suppressors complying with UL 1449, SPD Type 2.
C. Electrical Components, Devices, and Accessories: Listed and labeled in accordance with NFPA 70 by qualified electrical testing laboratory recognized by authorities having jurisdiction and marked for intended location and application.
D. Comply with 47 CFR 15, Subparts A and B, for Class A digital devices.
E. Comply with UL 916.

2.02 LIGHTING CONTROL RELAY PANELS

A. Description: Standalone lighting control panel using mechanically latched relays to control lighting and appliances.
B. Lighting Control Panel:
   1. A single enclosure with incoming lighting branch circuits, control circuits, switching relays, and on-board timing and control unit.
   2. A vertical barrier separating branch circuits from control wiring.
C. Control Unit: Contain the power supply and electronic control for operating and monitoring individual relays.
   1. Timing Unit:
      a. 365-day calendar, astronomical clock, and automatic adjustments for daylight savings and leap year.
      b. Clock configurable for 12-hour (A.M./P.M.) or 24-hour format.
      c. Four independent schedules, each having 24 time periods.
      d. Schedule periods settable to the minute.
      e. Day-of-week, day-of-month, day-of-year with one-time or repeating capability.
      f. 10 special date periods.
   2. Sequencing Control with Override:
      a. Automatic sequenced on and off switching of selected relays at times set at the timing unit, allowing timed overrides from external switches.
      b. Sequencing control must operate relays one at a time, completing the operation of all connected relays in not more than 10 seconds.
      c. Override control must allow any relay connected to it to be switched on or off by a field-deployed manual switch or by an automatic switch, such as an occupancy sensor.
      d. Override control "blink warning" must warn occupants approximately five minutes before actuating the off sequence.
   3. Nonvolatile memory must retain all setup configurations. After a power failure, the controller must automatically reboot and return to normal system operation, including accurate time of day and date.
D. Relays:
   1. Electrically operated, mechanically held single-pole switch, rated at 20 A at 277 V. Short-circuit current rating must be not less than 5 kA. Control must be three-wire, 24 V(ac).

E. Power Supply: NFPA 70, Class 2, sized for connected equipment, plus 20 percent spare capacity. Powered from a dedicated branch circuit of the panelboard that supplies power to the line side of the relays, sized to provide control power for the local panel-mounted relays, bus system, control-voltage inputs, field-installed occupancy sensors, and photo sensors.
F. Operator Interface:
   1. Integral alphanumeric keypad and digital display, and intuitive drop-down menus to assist in programming.
   2. Log and display relay on-time.
   3. Connect relays to one or more time and sequencing schemes.

2.03 MANUAL SWITCHES AND COVER PLATES

A. Push-Button Switches: Modular, momentary contact, three wire, for operating one or more relays and to override automatic controls.
   1. Match color and style specified in Section 262726 "Wiring Devices."
   2. Integral green LED pilot light to indicate when circuit is on.
   3. Internal white LED locator light to illuminate when circuit is off.
B. Cover Plates: Single and multigang cover plates as specified in Section 262726 "Wiring Devices."
C. Legend: Engraved or permanently silk-screened on cover plate where indicated. Use designations indicated on Drawings.

2.04 FIELD-MOUNTED SIGNAL SOURCES

A. Daylight Harvesting Switching Controls: Comply with Section 260923 "Lighting Control Devices." Control power may be taken from the lighting control panel, and signal must be compatible with the relays.
B. Indoor Occupancy Sensors and Extreme-Temperature Occupancy Sensors: Comply with Section 260923 "Lighting Control Devices." Control power may be taken from the lighting control panel, and signal must be compatible with the relays.

2.05 CONDUCTORS AND CABLES

A. Power Wiring to Supply Side of Class 2 Power Source: Not smaller than No. 12 AWG. Comply with requirements in Section 260519 "Low-Voltage Electrical Power Conductors and Cables."
B. Classes 2 and 3 Control Cables: Multiconductor cable with copper conductors not smaller than No. 18 AWG. Comply with requirements in Section 260523 "Control-Voltage Electrical Power Cables."
C. Class 1 Control Cables: Multiconductor cable with copper conductors not smaller than No. 14 AWG. Comply with requirements in Section 260523 "Control-Voltage Electrical Power Cables."
D. Twisted-Pair Data Cable: Category 6.
   1. Comply with requirements for twisted pair cabling in Section 260523 "Control-Voltage Electrical Power Cables."
   2. Comply with requirements in Section 271513 "Communications Copper Horizontal Cabling."

PART 3 EXECUTION

3.01 INSTALLATION OF WIRING

A. Wiring Methods:
   1. Install cables in raceways and cable trays except within consoles, cabinets, desks, and counters.
   2. Install cables in raceways and cable trays except within consoles, cabinets, desks, counters, accessible ceiling spaces, and gypsum board partitions where unenclosed wiring method may be used.
   3. Install conductors and cables concealed in accessible ceilings, walls, and floors where possible.
   4. Conceal raceway and cables except in unfinished spaces.
   5. Provide plenum-rated cable, where installed exposed or in open cable tray, within environmental airspaces, including plenum ceilings.
   6. Comply with requirements for cable trays specified in Section 260536 "Cable Trays for Electrical Systems."

7. Comply with requirements for raceways and boxes specified in Section 260533.13 "Conduits for Electrical Systems."

B. Wiring within Enclosures: Bundle, lace, and train conductors to terminal points with no excess and without exceeding manufacturer's limitations on bending radii. Install lacing bars and distribution spools.

3.02 INSTALLATION OF PANELS

A. Install panels and accessories in accordance with NECA 407.

B. Comply with mounting and anchoring requirements specified in Section 260548.16 "Seismic Controls for Electrical Systems."

C. Mount top of trim 90 inch above finished floor unless otherwise indicated.

D. Mount panel cabinet plumb and rigid without distortion of box.

E. Install filler plates in unused spaces.

3.03 IDENTIFICATION

A. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification specified in Section 260553 "Identification for Electrical Systems."

B. Identify field-installed conductors, interconnecting wiring, and components; provide warning signs complying with Section 260553 "Identification for Electrical Systems."

C. Create a directory to indicate loads served by each relay; incorporate Owner's final room designations. Obtain approval before installing. Use a PC or typewriter to create directories; handwritten directories are unacceptable.

D. Lighting Control Panel Nameplates: Label each panel with a nameplate complying with requirements for identification specified in Section 260553 "Identification for Electrical Systems."

3.04 FIELD QUALITY CONTROL

A. Field tests must be witnessed by Tenant.

B. Tests and Inspections:

1. Perform each visual and mechanical inspection and electrical test for low-voltage air circuit breakers described below. Certify compliance with manufacturer's test parameters.
    a. Circuit-Breaker Tests:
        1) Compare nameplate with Drawings and Specifications.
        2) Inspect physical and mechanical conditions.
        3) Inspect anchorage and alignment.
        4) Verify that the units are clean.
        5) Operate the circuit breaker to ensure smooth operation.
        6) Inspect bolted electrical connections for high resistance using one or more of the following methods:
            a) A low-resistance ohmmeter.
            b) Verify tightness of bolted electrical connections by calibrated torque wrench.
            c) Thermographic survey.
        7) Inspect operating mechanism, contacts, and arc chutes in unsealed units.
        8) Perform adjustments for final protective device settings in accordance with the overcurrent protective device coordination study. Comply with requirements in Section 260573.16 "Coordination Studies."
        9) Perform insulation resistance tests for one minute on each pole, phase-to-phase, and phase-to-ground with the circuit breaker closed and across each pole using manufacturer's published data.
        10) Perform a contact/pole-resistance test.
        11) Perform insulation-resistance tests on control wiring with respect to ground. Applied potential must be 500 V(dc) for 300 V rated cable and 1000 V(dc) for 600 V rated cable. Test duration must be for one minute. Follow manufacturer's instructions for solid-state units.
        12) Determine long-time pickup and delay by primary current injection.
        13) Determine short-time pickup and delay by primary current injection.
        14) Determine ground-fault pickup and time delay by primary current injection.
        15) Determine instantaneous pickup by primary current injection.
        16) Test functions of the trip unit by means of secondary injection.

17) Perform minimum pickup voltage tests on shunt trip and close coils in accordance with manufacturer's published data.
18) Verify correct operation of auxiliary features such as trip and pickup indicators, zone interlocking, electrical close and trip operation, trip-free, anti-pump function, and trip unit battery condition. Reset trip logs and indicators.
19) Verify operation of charging mechanism.

b. Surge Arrestor Tests:
1) Compare nameplate with the Contract Documents.
2) Inspect physical and mechanical conditions.
3) Inspect anchorage, alignment, grounding, and clearances.
4) Verify that the units are clean.
5) Inspect bolted electrical connections for high resistance using one or more of the following methods:
a) Low-resistance ohmmeter.
b) Verify tightness of bolted electrical connections by calibrated torque wrench.
6) Verify that the ground lead on each device is individually attached to a ground bus or ground electrode.
7) Perform an insulation-resistance test on each arrestor, phase terminal-to-ground using voltage in accordance with manufacturer instructions.
8) Comply with requirements in Section 260526 "Grounding and Bonding for Electrical Systems" for grounding tests.

C. Nonconforming Work:
1. Lighting control panel will be considered defective if it does not pass tests and inspections.
2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.

D. Prepare test and inspection reports, including a certified report that identifies lighting control panels and describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations made after remedial action.

3.05 SYSTEM STARTUP

A. Engage a factory-authorized service representative to perform startup service.

3.06 ADJUSTING

A. Occupancy Adjustments: When requested within 12 months from date of Substantial Completion, provide on-site assistance in adjusting system to suit actual occupied conditions. Provide up to two visits to Project during other-than-normal occupancy hours for this purpose.

3.07 MAINTENANCE

A. Software and Firmware Service Agreement:
1. Technical Support: Beginning at Substantial Completion, verify that software and firmware service agreement includes software support for two years.
2. Upgrade Service: At Substantial Completion, update software and firmware to latest version. Install and program software upgrades that become available within two years from date of Substantial Completion. Verify upgrading software includes operating system and new or revised licenses for using software.
a. Upgrade Notice: No fewer than 30 days to allow Owner to schedule and access the system and to upgrade computer equipment if necessary.
3. Upgrade Reports: Prepare written report after each update, documenting upgrades installed.

END OF SECTION

SECTION 27 11 00
COMMUNICATIONS EQUIPMENT ROOM FITTINGS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes, but is not limited to:
   1. Equipment Cabinet
   2. Plywood Backboard
   3. Cable management
   4. Telecommunications room ladder trays
   5. Power strips
   6. Miscellaneous equipment and accessories
   7. Installation of all Communications Equipment Room Fittings

B. Related sections include the following:
   1. Division 26 – Electrical
   2. Division 27 – Communications
   3. Division 28 – Electronic safety and security

1.02 DESCRIPTION OF WORK

A. Contractor shall provide all labor, material, equipment, and accessories required for a complete installation of the Communications Equipment Room Fittings as indicated herein and on the drawings.

B. Contractor shall be responsible for the coordination with the Electrical Contractor for all of the electrical power in the equipment room.

1.03 QUALITY ASSURANCE

A. The Communications Equipment Room Fittings components and equipment shall be listed by Underwriters Laboratories, Inc., and the components shall bear the UL label.

B. The Communications Equipment Room Fittings shall be installed in accordance with all requirements set by all applicable standards, codes, and regulations including but not limited to the standards referenced in Section 270500 – Common Work Results for Communications.

C. All equipment and installation practices shall comply with the latest BICSI (TDMM) standards.

D. Installer shall employ or have a contract with a Registered Communications Distribution Designer (RCDD) registered with the Building Industries Consulting Services International (BICSI).

E. Installer must have personnel certified by BICSI on staff.
   1. Installation Supervision: Installation shall be under the direct supervision of ITS Technician
   2. Field Inspector: Currently registered by BICSI as an RCDD to perform the on-site inspection.

1.04 SUBMITTALS

A. Refer to Section 270500 – Common Work Results for Communications for more information.

B. The contractor must submit a labeling scheme to the Engineer for approval as part of the submittal documentation. The labeling scheme shall include the rack or equipment cabinet number identification. Labeling installed without the Engineers approval will be subject to removal.

C. Provide equipment cabinet or rack layouts showing patch panels, wire managers, and open spaces for networking equipment as part of the submittals.

D. Submittals shall be submitted in electronic format (PDF).

1.05 CLOSEOUT DOCUMENTATION

A. Refer to Section 270500 – Common Work Results for Communications for more information.

B. Closeout documentation shall be submitted in electronic format (PDF).

1.06 WARRANTY

A. All components, parts, and assemblies of the Communications Equipment Room Fittings supplied by the installer shall be guaranteed against defects in materials and workmanship for a period of 5 years by the manufacturer and installer.

B. Warranties shall include all labor, material, travel expenses, test equipment, equipment rental and any other expense required to troubleshoot, remove, repair or replace equipment or components to bring the system up to the original performance criteria and operation.
C. Warranty services shall be provided by an installer certified by the equipment manufacturer during normal business hours.
D. Provide warranty certificate as part of the closeout documentation.

1.07 TRAINING

A. Refer to Section 270500 – Common Work Results for Communications for more information.
B. Provide two (2) training hours for the Communications Equipment Room Fittings.

PART 2 PRODUCTS

2.01 NOT USED

2.02 4-POST COMMUNICATIONS RACK

A. Each 4-post racks shall:
   1. Have frames manufactured of steel or aluminum.
   2. Have a black epoxy-polyester hybrid powder coat finish
   3. Be assembled with nut and bolt hardware
   4. Be rated for a maximum of 2,500 pounds of equipment
   5. Be UL listed
B. Each 4-post rack frame will have:
   1. Two L-shaped top angles pre-punched for attaching cable runway with J-bolts
   2. Two L-shaped base angles pre-punched for attachment to the floor
   3. Four adjustable L-shaped equipment-mounting rails: a front pair and a rear pair
   4. Have four steel frame posts, the sides (webs) of which will be punched to allow:
      a. Attachment of vertical cable managers along the sides of the frame
      b. Frame-to-frame or frame-to-rack baying, including with a 2-post relay rack
C. Equipment mounting rails will:
   1. Be L-shaped and free from the four posts
   2. Be adjustable front to back after the rack has been mounted to a floor
   3. Be punched on the front and rear flange with the universal hole pattern specified by EIA-310-D
   4. Have at least 45RU of useable interior height unless noted otherwise
   5. Have each mounting space marked and numbered on the mounting rail
   6. Have attachment points threaded with 12-24 roll-formed threads or square punched cage nuts
   7. Be spaced to allow attachment of 19-inch EIA rack-mount equipment
D. Each 4-post rack frame will include:
   1. Assembly and equipment-mounting hardware that provides electrical continuity between components
   2. Twenty-five (25) combination pan head pilot point mounting screws or cage nuts (confirm with owner prior to ordering)
   3. At least fifty (50) spare screws
   4. One (1) horizontal power strip and one (1) vertical power strip
   5. One (1) vertical wire manager.
   6. The following miscellaneous accessories
      a. One (1) adjustable vented shelf
      b. One (1) light duty vented shelf
      c. One (1) copper busbar grounding kit
E. The assembled frame will measure 84 inches high, 23.3 inches wide, and 30 inches deep, with no more than 30 inches between the front and rear mounting surfaces of the two pairs of mounting rails unless noted otherwise.
F. All racks shall be grounded per specification Section 270526 – Grounding and Bonding for Communications Systems, the TIA-607 standard, and per state and local codes. Provide a

grounding kit for each rack that includes a grounding busbar so that each cabinet is separately grounded. Daisy chaining the grounding for the racks will not be accepted.

G. Approved manufacturers:
   1. Panduit – R4P
      a. No approved equals

2.03 EQUIPMENT CABINET

1. Each equipment cabinet shall:
   a. Be constructed with:
      1) Vertical posts and doors constructed of 16-gauge steel
      2) EIA adjustable mounting rails constructed of 14-gauge steel
      3) Side panels constructed of 20-gauge steel.
      4) A top constructed of 18-gauge steel
      5) At least 45RU of useable interior height unless noted otherwise
      6) Electrically-continuous inset frame
   b. Be equipped with a single point bonding location at the top and bottom
   c. Be UL listed
2. Each equipment cabinets shall include:
   a. Integrated fan(s) capable of minimum of 450 CFM mounted in the top of each cabinet. Include both internal and external fan guards. Fan noise rating shall be less than 49dBA.
   b. Side panels on each cabinet. If the cabinets are ganged together, interior side panels are not required. The color shall match the equipment cabinet.
   c. Snap-in covers pre-installed in cable entry openings
   d. Lockable plexiglass front and rear door. All cabinets should be keyed alike. The color shall match the equipment cabinet.
   e. Cable organizers and front and rear cable management fingers
   f. Twenty-five (25) combination pan head pilot point mounting screws or cage nuts (confirm with owner prior to ordering)
   g. At least fifty (50) spare screws
   h. One (1) horizontal power strip and one (1) vertical power strip
   i. The following miscellaneous accessories
      1) One (1) adjustable vented shelf
      2) One (1) light duty vented shelf
      3) One (1) copper busbar grounding kit
3. All equipment cabinets shall be grounded and bonded per specification Section 270526 – Grounding and Bonding for Communications Systems, the TIA-607 standard, and per state and local codes. Provide a grounding kit for each cabinet that includes a grounding busbar so that each cabinet is separately grounded. Daisy chaining the grounding for the cabinets will not be accepted.
4. Enclosures shall have a 3,000 pound static load rating and 2,250 pound rolling load rating.
5. Approved manufacturers:
   a. Hoffman ProLine S1 Cabinet – PS1C2188B (no approved equals)

2.04 NOT USED

2.05 NOT USED

2.06 PLYWOOD BACKBOARD

A. Provide ¾” thick x 8’-0” high fire rated plywood backboard at locations indicated on the drawings.
B. Install plywood backboard at 6” A.F.F..
C. Plywood shall be painted white with two (2) coats of fire-retard paint and should be grade AC or better.

2.07 CABLE MANAGEMENT DEVICES

1. Provide vertical cable managers where indicated on the drawings.
2. The vertical cable manager will create a space for storing and organizing cables along the side of the rack or frame and will maintain separation between cordage and premise cables.

3. The vertical cable manager shall be manufactured of sheet steel, aluminum, or PVC and composite materials with an epoxy-polyester hybrid powder coat paint in a color that matches the rack or frame to which it is attached.
4. The vertical cable manager will be affixed to the side of racks or frames with manufacturer-supplied hardware.
5. All covers will be removable, hinged to open from the right or left side and will include a latch that will secure the cover in the closed position.
6. The vertical cable manager shall have a removable cover, hinged to open, that will snap on to secure the cover in the closed position.
7. The vertical cable manager will have cable openings along both sides of the trough.
    a. These cable openings will be formed by evenly-spaced flag-up-shaped cable guides, made from a composite plastic material (non-metallic), that will have rounded edges to protect cables.
8. When the cable manager is attached to a rack or frame, each cable opening will align with an RU on the rail.
9. Each opening will pass a minimum of twenty-four (24) .25 inch OD patch cords.
10. The vertical cable manager will match the height of the racks or frames to which it is attached and will be of an appropriate size to accommodate the cabling. It shall be able to manage all the cables on the rack without the aid of horizontal cable managers and shall be:
    a. 45RU high
    b. 5.0 inches wide
    c. 12 inches deep

B. The initial quantity of cables in the cable manager will not exceed 40% of the interior area of the cable manager.
C. A single vertical cable manager shall be used between bayed racks or frames and will be of an appropriate size to accommodate the total cable requirements for both racks or frames. The manufacturer's product documentation will state estimated cable fills for the cable manager.
D. The vertical cable manager shall consist of a metal backbone with cable management fingers that:
    1. Align with EIA rack spacing
    2. Are molded out of plastic
    3. Provide integral bend radius control throughout the entire length
E. Approved manufacturers:
    1. Panduit – WMPV45E
        a. No approved equals
F.

2.08 TELECOMMUNICATIONS ROOM LADDER TRAY

A. Provide a minimum 12" wide fully welded ladder tray where indicated on the drawings. The ladder tray shall be installed above the technology racks or cabinets. In rooms with a ceiling, the ladder tray shall be installed below the ceiling tile with enough space for access to cabling.
B. Provide all factory elbows, fittings, supports, and miscellaneous hardware for a complete installation.
C. Provide a waterfall accessory where the ladder tray connects to the technology racks or cabinets.
D. Provide grounding kit so that grounding is continuous throughout entire run off ladder tray. Ground to the TBB in the technology room. Ground per the manufacturers recommendations.
E. Telecommunications room ladder tray and fittings shall:
    1. Have a black epoxy-polyester hybrid powder coat finish
    2. Be UL listed
F. Approved manufacturers:
    1. Middle Atlantic – CLB series
    2. CPI – Universal Cable Runway series
    3. Panduit – Wyr-Grid Pathway sereis

4. Belden – Universal Style Cable Runway series
5. Legrand/Ortronics – OR-TRT10-12B
6. Hoffman-Universal Ladder Rack series
7. Hubbell-NextFrame Ladder Tray series

2.09 NOT USED

2.10 POWER STRIPS

A. Provide horizontal power strips as specified herein and indicated on the drawings.
   1. The horizontal power strips shall:
      a. Be UL listed
      b. Be 16-guage steel
      c. Be black powder coated
      d. Rack mounted and occupy 1 rack space
      e. Shall operate on 120 volt/60Hz current
      f. Have 10’ power cord with the NEMA 5-20P plug
      g. Have LED indicator lights for power and protection status
      h. Have LED indicator lights for reverse polarity and open outlet ground
      i. Have a minimum of eight (8) NEMA 5-20R output receptacles
   2. Approved manufacturers:
      a. Middle Atlantic – PD series
      b. CPI - 13239-757
      c. Belden - 9BF1-101002
      d. Leviton – P1000 series
      e. Legrand/Ortronics – LP Series
      f. Cyber Power Basic series

2.11 MISCELLANEOUS COMPONENTS AND ACCESSORIES

A. Provide adjustable vented shelf as specified herein and indicated on the drawings.
   1. The adjustable vented shelf shall:
      a. Be adjustable from 27” to 44” deep.
      b. Be fully vented
      c. Have a black powder coat finish
      d. Attach to the technology rack or cabinet mounting rails so that there is support at each front corner of the shelf.
      e. Have a support surface that extends beyond the mounting rail (cantilever)
   2. Approved manufacturers:
      a. Middle Atlantic
      b. Panduit
      c. CPI
      d. Belden
      e. Leviton
      f. Hoffman

B. Provide light duty vented shelf as specified herein and indicated on the drawings.
   1. The light duty vented shelf shall:
      a. Be fully vented
      b. Have a black powder coat finish
      c. Attach to the technology rack or cabinet mounting rails so that there is support at each front corner of the shelf.
      d. Have a support surface that extends beyond the mounting rail (cantilever)
   2. Approved manufacturers:
      a. Middle Atlantic
      b. Panduit
      c. CPI
      d. Belden
      e. Leviton
      f. Hoffman

g. Hubbell

C. Provide copper busbar grounding kit as specified herein and indicated on the drawings.
   1. Provide one (1) copper busbar grounding kit for each rack or cabinet.
   2. Copper busbar grounding kit shall:
      a. Be 1/8” thick x 1” wide and length to fit equipment rack/cabinet
      b. Be threaded for 10-32 screws
      c. Be from the same manufacturer as the technology rack or cabinet
   3. Approved manufacturers:
      a. Middle Atlantic
      b. Panduit
      c. CPI
      d. Belden
      e. Leviton
      f. Hoffman
      g. Hubbell

PART 3 EXECUTION

3.01 INSTALLATION

A. Provide all components for the communications equipment room fittings as specified herein and as shown on the drawings.
B. The communications equipment room fittings shall be installed in accordance with TIA standards-based recommendations, the manufacturer’s recommendations/installation guides, and industry best practices.
C. Comply with BICSI TDMM for layout and installation of communications equipment rooms.
D. Equipment racks and cabinets shall be securely attached to the concrete floors using manufacturer recommended hardware or as required by local codes.
E. Bundle, lace, and train conductors and cables to terminal points without exceeding manufacturer's limitations on bending radii. Install lacing bars and distribution spools.
F. Coordinate layout and installation of communications equipment with Owner's telecommunications and LAN equipment and service suppliers. Coordinate service entrance arrangement with local service provider.
G. Coordinate location of power raceways and receptacles with locations of communications equipment requiring electrical power to operate.
H. All equipment cabinets and racks shall be grounded to the PBB or SBB in accordance to Section 27 05 26 – Grounding and Bonding for Communications Systems.
I. All rack mounted equipment shall be installed in accordance with the manufacturer’s recommendations and installation guides.
J. Coordinate equipment cabinet and rack layout with owner provided equipment prior to installation.
K. Ladder tray shall be installed in the equipment rooms per the manufacturer’s recommendations. The ladder tray shall be supported at a minimum of every 5’. Where installed above equipment cabinet or racks, the ladder tray shall be secured to the cabinet or rack so that the ladder tray cannot move.
L. Bond metallic equipment to the grounding bus bar, using not smaller than No. 6 AWG equipment grounding conductor.
M. All service loops shall be properly supported.
N. Any cables that are damaged or exceeding the recommended installation parameters during installation shall be replaced by the installer at no cost to the owner.

3.02 LABELING

A. Identify system components, wiring, and cabling complying with TIA-606-B and coordinate with the Engineer and Owner.
B. Provide label for each equipment cabinet and rack.
C. All labels shall be typed and printed. Hand written labels will not be accepted.
D. Refer to technology drawings for more information on labeling.

E. Refer to specification section 270553 – Identification for Communications Systems for more information.

3.03 FIRESTOPPING

A. Comply with TIA-569-D, Annex A, "Firestopping."

B. Comply with "Firestopping Systems" Article in BISCI's TDMM.

3.04 TESTING

A. Perform inspections for all the installed communications equipment room fittings.

END OF SECTION

HAMILTON SOUTHEASTERN SCHOOLS

FALL CREEK INTERMEDIATE RENOVATIONS

12011 Olio Rd, Fishers, IN 46037

CONSTRUCTION DOCUMENTS

07.12.24

VOLUME 1

CIVIL, STRUCTURAL, ARCHITECTURAL, AND FOOD SERVICE

VOLUME 1 - DRAWING LIST

VOLUME 2 - DRAWING LIST

ALTERNATES

FOR ALL ALTERNATES REFER TO 01 23 00 ALTERNATE SPECIFICATIONS FOR MORE INFORMATION.

ALTERNATE BID - ADD ALTERNATE - ADD TO THE SCOPE OF WORK ASSOCIATED WITH THE NORTH BUS ASPHALT PARKING EXTERIOR SITE WORK.

ALTERNATE BID - ADD ALTERNATE - ADD TO THE SCOPE OF WORK ASSOCIATED WITH THE SOUTH DROP-OFF VISITOR EXTERIOR SITE WORK, PARTIAL SIDEWALK REPLACEMENT AND ADA SIGNAGE.

ALTERNATE BID - ADD ALTERNATE - ADD TO THE SCOPE OF WORK ASSOCIATED WITH THE SOUTH WEST DRIVE EXTERIOR SITE WORK.

ALTERNATE BID - ADD ALTERNATE - ADD TO THE SCOPE OF WORK ASSOCIATED WITH THE SOUTH DROP-OFF VISITOR EXTERIOR SITE WORK PARTIAL SIDEWALK REPLACEMENT.

ALTERNATE BID - ADD ALTERNATE - ADD TO THE SCOPE OF WORK ASSOCIATED WITH THE ADDED SCOPE OF KITCHEN FREEZER AND COOLER DESIGN.

ALTERNATE BID - ADD ALTERNATE - ADD TO THE SCOPE OF WORK ASSOCIATED WITH BRICK STAINING.

ALTERNATE BID - ADD ALTERNATE - ADD TO THE SCOPE OF WORK ASSOCIATED WITH WORK AT ALL EXTERIOR COLUMNS.

ALTERNATE BID - ADD ALTERNATE - ADD TO THE SCOPE OF WORK ASSOCIATED WITH GYM THE REPLACEMENT OF THE GYMNASIUM DIVIDER CURTAIN AND ELECTRONIC SHADES FOR GYM CLERESTORY WINDOWS.

ALTERNATE BID - ADD ALTERNATE - ADD TO THE SCOPE OF WORK ASSOCIATED WITH REPLACING ALL METAL LOCKERS IN ACADEMIC WINGS (ONE FOR ONE)

SET TO BE PRINTED IN COLOR

07.12.24
HAMILTON SOUTHEASTERN SCHOOLS
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd, Fishers, IN 46037
CONSTRUCTION DOCUMENTS

VICINITY MAP

SCHOOL DISTRICT

Hamilton Southeastern Schools
Fishers, IN

Superintendent: Patrick Mapes
Deputy Superintendent: Dr. Matt Kegley
Facilities Director: Mathew Rapp

School Board			
Dawn Lang:	President	Sarah Donsbach:	Board Member
Dr. Juanita Albright:	Vice President	Suzanne Thomas:	Board Member
Tiffany Pascoe:	Secretary	Sarah Parks-Reese:	Board Member
		Ben Orr:	Board Member

FOOD SERVICE DESIGN

Reitano Design Group
Indianapolis, IN

tel: 317.637.3204
www.reitanodesigngroup.com

Contact: Don Kehrt
donk@reitanodesigngroup.com

STRUCTURAL ENGINEER

LHB Inc.
Indianapolis, IN

tel: 317.423.1550
www.lhb-eng.com

Contact: Scott Clore
sclore@lhb-eng.com

MEPT ENGINEER

KBSO Consulting
Carmel, IN

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www.kbsoconsulting.com

Contact: Kelley Bieghler
kbiegler@kbsoconsulting.com

CIVIL ENGINEER

A&F Engineering
Indianapolis, IN

tel: 317.202.0864
www.af-eng.com

Contact: Karen Collins
kcollins@af-eng.com

ARCHITECT/DESIGNER:

1020 Jackson Street
Anderson, Indiana

tel: 765.649.8477
www.krMarchitecture.com

Contact: Stuart Godfrey
sgodfrey@krmarchitecture.com

HAMILTON SOUTHEASTERN SCHOOLS

FALL CREEK INTERMEDIATE RENOVATIONS

12011 Olio Rd, Fishers, IN 46037

CONSTRUCTION DOCUMENTS

07.12.24

VOLUME 2
PLUMBING, FIRE SUPPRESSION, MECHANICAL, ELECTRICAL, TECHNOLOGY

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VOLUME 1 - DRAWING LIST

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HAMILTON SOUTHEASTERN SCHOOLS
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd, Fishers, IN 46037
CONSTRUCTION DOCUMENTS

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Tiffany Pascoe:	Secretary	Sarah Parks-Reese:	Board Member
		Ben Orr:	Board Member

FOOD SERVICE DESIGN

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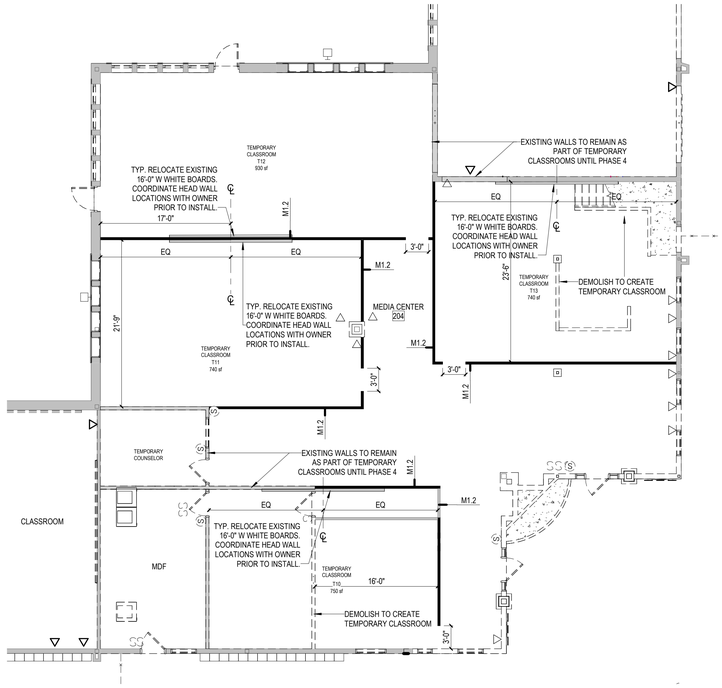
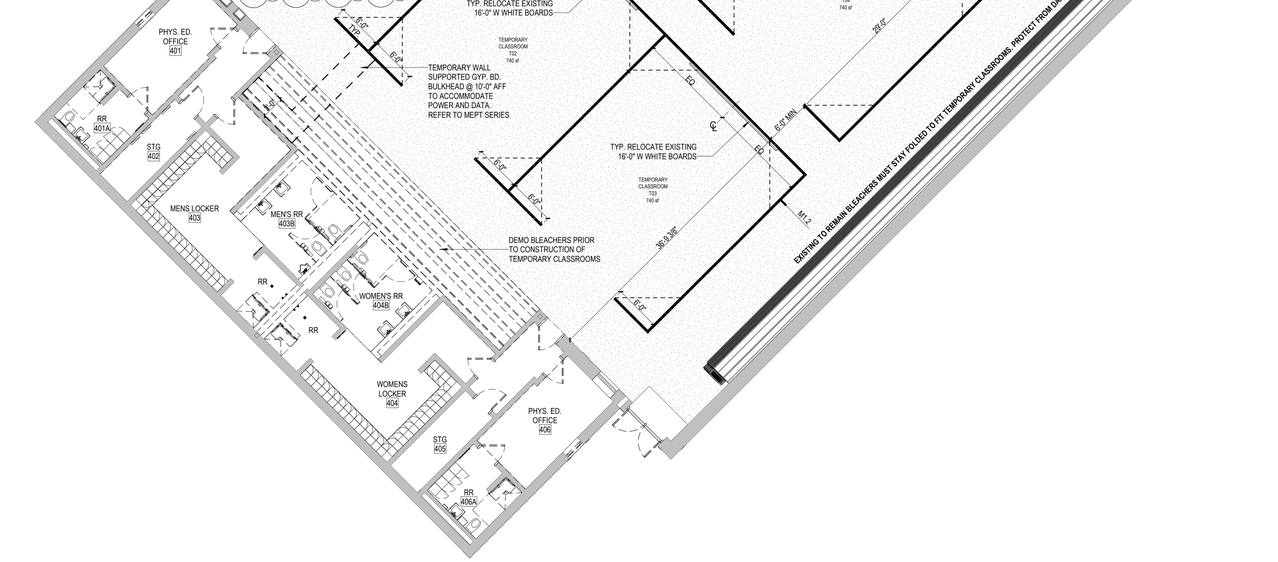


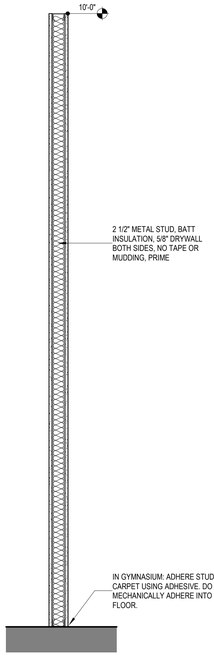
2 TEMPORARY CLASSROOM PLAN_MEDIA CENTER

SCALE: 1/8" = 1'-0"



1 TEMPORARY CLASSROOM PLAN_GYMNASIUM

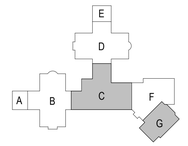
SCALE: 1/8" = 1'-0"



3 TYP. TEMPORARY CLASSROOM WALL SECTION

SCALE: 1" = 1'-0"

KEY PLAN



krM Architecture+

kbsd CONSULTING

HB Lynch, Harrison & Brumleve, Inc.

REVISIONS

1	07/29/24	Addendum 1

07.12.24
HAMILTON SOUTHEASTERN SCHOOLS

23055 - FALL CREEK INTERMEDIATE RENOVATIONS

12011 Olio Rd, Fishers, IN 46037

CONSTRUCTION DOCUMENTS

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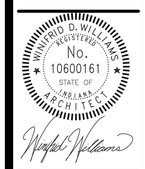


CONSTRUCTION DOCUMENTS
07.12.24
krM JOB NO.
23055
DRAWN BY
Cg

DRAWING NAME
TEMPORARY CLASSROOM PLAN

DRAWING NO.
G0-4

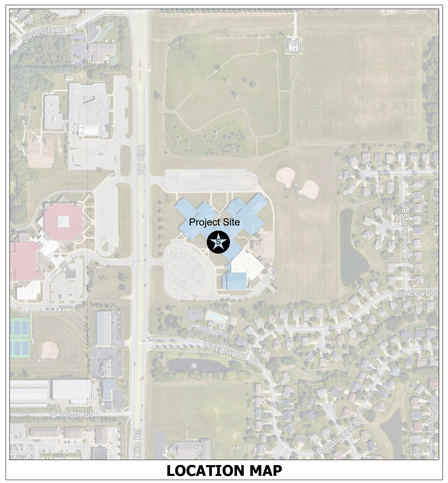
LAND DEVELOPMENT
FALL CREEK INTERMEDIATE RENOVATION
12011 OLIO ROAD FISHERS, INDIANA

PROJECT DATA

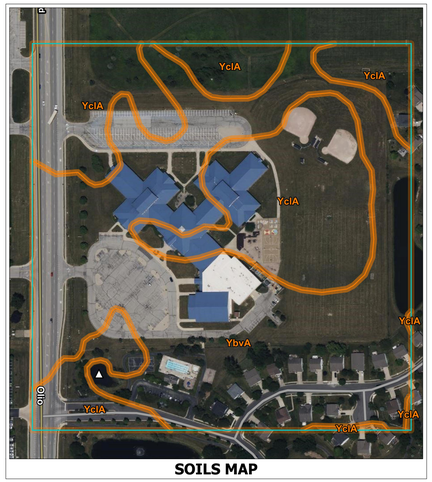
Project Information:

Project Title:	24007L FCI RENOVATION
Address:	12011 OLIO ROAD
City/Town:	Fishers
County:	Hamilton
Civil Township:	Delaware
Quarter:	NE
Section:	36
Township:	18N
Range:	5E
Latitude:	39° 57' 31" N
Longitude:	85° 55' 09" W

Project Description: Pavement maintenance improvements to existing parking lots and access roads.



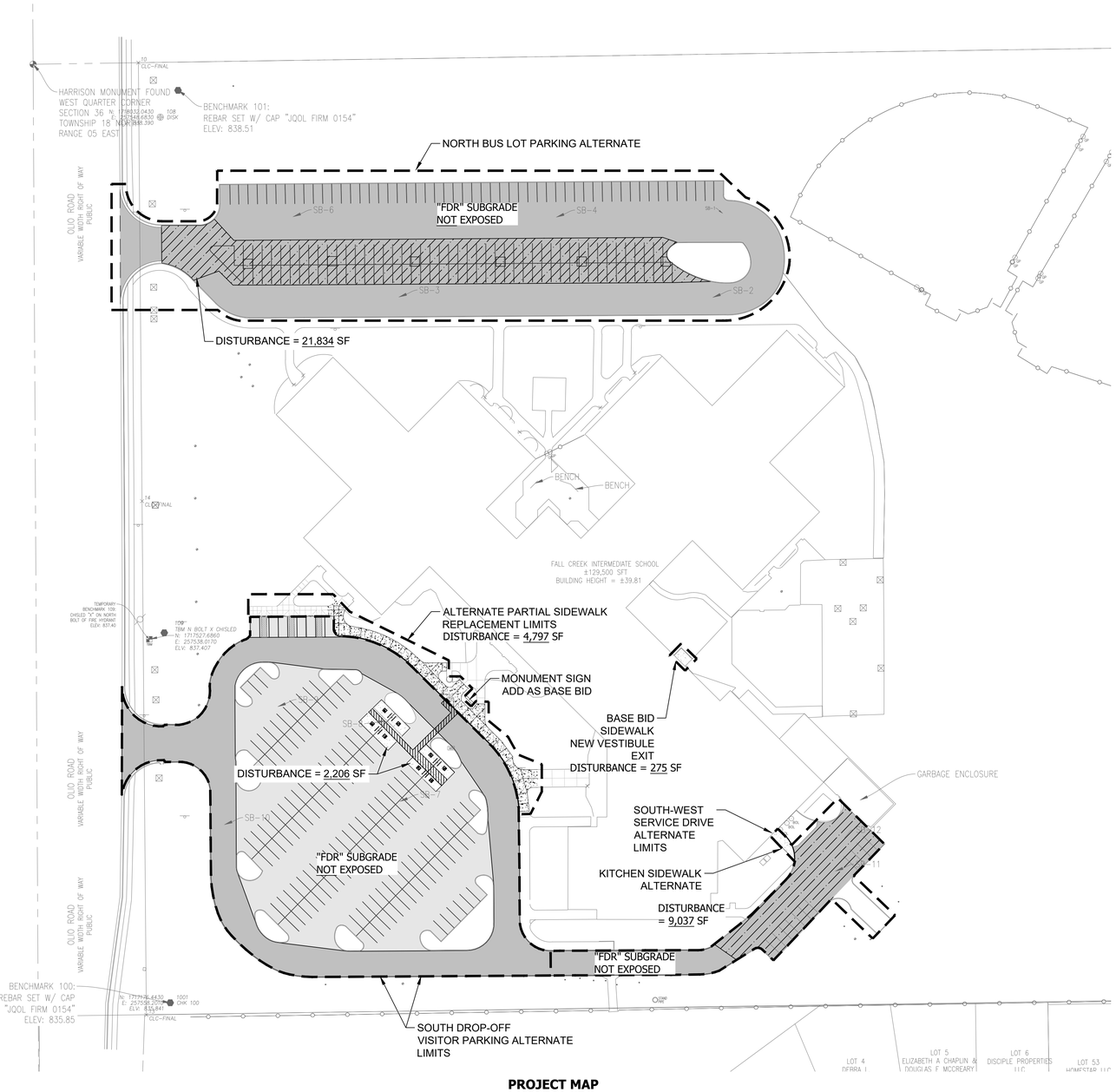
LOCATION MAP



SOILS MAP

PROJECT SOIL SURVEY

YbvA	Brookston silty clay loam-Urban land complex, 0 to 2 percent slopes
YclA	Crosby silt loam, fine-loamy subsoil-Urban land complex, 0 to 2 percent slopes



PROJECT MAP
SCALE: 1" = 60'

SHEET INDEX	
No.	DESCRIPTION
C100	COVER SHEET
	SURVEY
C101-C102	DEMOLITION PLAN
C201-C202	SITE PLAN
C301-C302	GRADING & UTILITY PLAN
C401	SWPPP PLAN (INITIAL)
C402	SWPPP PLAN (FINAL)
C403	SWPPP PLAN (DETAILS)
C901	SITE DETAILS
	FISHERS CONSTRUCTION DETAILS

TOTAL DISTURBANCE IF ALL ALTERNATES ARE ACCEPTED IS 0.83 AC FDR PROCESS DOES NOT EXPOSE SUBGRADE AND IS NOT INCLUDED IN THE DISTURBED AREA.

REVISIONS		
MARK	DATE	DESCRIPTION

BENCHMARKS

BENCHMARK 100:
REBAR SET W/ CAP "JQOL FIRM 0154"
ELEV:835.85

TEMPORARY
BENCHMARK 109:
CHISLED "X" ON NORTH BOLT OF FIRE HYDRANT
ELEV:837.40

BENCHMARK 101:
REBAR SET W/ CAP "JQOL FIRM 0154"
ELEV:838.51

FLOOD ZONE STATEMENT

ALL OF THE PARCEL DESCRIBED HEREIN DOES NOT LIE WITHIN THAT SPECIAL FLOOD ZONE "A", BUT LIES WITHIN FLOOD ZONE "X". AS SAID PARCEL PLOTS ON COMMUNITY PANEL NUMBER 18057C0584G (DATED NOVEMBER 19, 2014) OF THE FLOOD INSURANCE RATE MAPS FOR THE TOWN OF FISHERS, INDIANA, THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP.

Know what's below. Call before you dig.

krM Architecture+
A&F ENGINEERING Transportation & Site Engineering
kbso CONSULTING
HLB Lynch, Harrison & Brumleve, Inc.

REVISIONS
ADDENDUM #1 07.29.24

07.12.24
HAMILTON SOUTHEASTERN SCHOOLS
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd, Fishers, IN 46037
CONSTRUCTION DOCUMENTS
SET TO BE PRINTED IN COLOR

KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

CONSTRUCTION DOCUMENTS
07.12.24
krM JOB NO.
23055
DRAWN BY
A&F
DRAWING NAME
COVER SHEET
DRAWING NO.
C100

DEMOLITION PLAN NOTES

1. EROSION CONTROL SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBANCE, INCLUDING PAVEMENT REMOVAL.
2. THE CONTRACTOR SHALL HIRE A PRIVATE LOCATER TO VERIFY THE LOCATION AND DEPTH OF UNDERGROUND UTILITIES TO BE PROTECTED, REMOVED, RELOCATED OR ABANDONED PRIOR TO COMMENCING FDR ACTIVITIES. IF CONFLICTS EXIST, NOTIFY THE ENGINEER IMMEDIATELY.
3. THE CONTRACTOR SHALL COORDINATE WORK ASSOCIATED WITH THE REMOVAL, RELOCATION OR ABANDONMENT OF UTILITIES WITH THE UTILITY COMPANY OR ENTITY HAVING OWNERSHIP OF EACH RESPECTIVE UTILITY. COSTS FOR DISCONNECTION, REMOVAL, AND/OR RELOCATION OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS OR AS NECESSARY TO ALLOW FOR EXECUTION OF THE WORK SHALL BE PAID BY THE CONTRACTOR.
4. NO OPEN BURNING SHALL BE PERMITTED ON THE SITE.
5. THE OWNER HAS FIRST SALVAGE RIGHTS ON ALL ITEMS REMOVED. IF OWNER FORFEITS RIGHTS, ALL DEMOLISHED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF-SITE UNLESS OTHERWISE SHOWN.
6. UNLESS SCHEDULED FOR DEMOLITION ON THE DRAWINGS, ALL TREES AND VEGETATION SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE PROJECT. PROTECTIVE MEASURES SHALL INCLUDE INSTALLATION AND MAINTENANCE OF TREE PROTECTION FENCING TO BE LOCATED WHERE SHOWN AND AT THE DRIPLINE OF ALL TREES LOCATED WITHIN CLOSE PROXIMITY OF AREAS WHERE HEAVY EQUIPMENT WILL OPERATE.
7. A CLEAN, STRAIGHT EDGE SHALL BE SAWCUT BETWEEN ALL CONCRETE AND ASPHALT SURFACES SCHEDULED FOR DEMOLITION AND CONCRETE AND ASPHALT SURFACES TO REMAIN IN-PLACE.
8. TERMINAL ENDS OF UNDERGROUND UTILITIES ABANDONED IN-PLACE SHALL BE CUT, CAPPED AND PLUGGED. THE ENDS OF DISCONNECTED UNDERGROUND UTILITIES SHALL BE MARKED FOR FUTURE IDENTIFICATION WITH DETECTABLE LOCATOR TAPE OR A METAL ROD.
9. ALL SIDEWALKS, CURBS, APPARATUSES, ETC., DESIGNATED FOR REMOVAL SHALL BE DEMOLISHED ACCORDING TO SPECIFICATIONS.
10. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE ACCESS FOR PEDESTRIANS AND VEHICLE TRAFFIC. THE CONTRACTOR WILL MAINTAIN ALL UTILITY SERVICES TO ALL BUILDING SECTIONS. IF UTILITY SERVICES MUST BE INTERRUPTED, THE CONTRACTOR SHALL COORDINATE THAT SHUTDOWN TO MINIMIZE IMPACT TO THE BUILDING AND SCHOOL FACILITIES. COORDINATE SHUTDOWN AT LEAST ONE WEEK IN ADVANCE WITH BUSINESS, OWNER'S REPRESENTATIVE AND FACILITY MANAGER.
11. ALL EXISTING ON-SITE UTILITIES SHALL REMAIN UNLESS DESIGNATED FOR REMOVAL, OR UNLESS THEY INTERFERE WITH PROJECT CONSTRUCTION. CONTACT ENGINEER BEFORE REMOVING. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN.
12. EXISTING MANHOLES, CATCH BASINS, CLEANOUTS, VALVE BOXES, FRAMES COVERS AND GRATES REMAINING IN USE SHALL BE PROTECTED AND ADJUSTED TO FINAL GRADES.
13. FOR ALL UTILITY LINES AND STRUCTURES DESIGNATED TO BE REMOVED, PLACE AND COMPACT STRUCTURAL BACKFILL WITHIN TRENCH/EXCAVATION.
14. SAWCUT INTEGRAL CURB & WALK AT NEAREST CONSTRUCTION JOINT WHEN ADJACENT INTEGRAL CURB & WALK IS TO REMAIN.
15. CONTRACTOR SHALL CUT CONCRETE AT NEAREST CONSTRUCTION JOINT.

PROTECTION NOTES

1. PROTECT ALL LIGHT POLES, UTILITIES, CONCRETE AND CURBS UNLESS SPECIFICALLY DESIGNATED FOR REMOVAL
2. ALL STRIPING SHALL BE REINSTALLED IN THE SAME CONFIGURATION AS IT EXISTS AT THE TIME OF THE SURVEY, EXCEPT WHERE SHOWN ON THE SITE PLAN.

POTHOLING & UTILITY PROTECTION NOTES

CONTRACTOR SHALL POTHOLE UTILITIES IN THE AREAS OF FDR RECONSTRUCTION. IF ANY UTILITIES WILL BE COMPROMISED BY THE FDR PROCESS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

NOTE

CONTRACTOR SHALL REMOVE GEOTEXTILE FABRIC IF REQUIRED. NO GEOTEXTILE FABRIC WAS ENCOUNTERED IN THE GEOTECH INVESTIGATIONS. IF GEOTEXTILE IS FOUND IN PAVEMENT LOCATIONS WITH FULL DEPTH RECLAMATION (FDR) THE GEOTEXTILE MUST BE REMOVED.

REMOVAL NOTES

1. FULL DEPTH REHABILITATION SECTION - REMOVE ASPHALT AND BASE AS REQUIRED TO MEET PROPOSED GRADES - COORDINATE WITH SITE PLAN AND GRADING PLAN.
2. FULL DEPTH REHABILITATION SECTION - REMOVE MATERIAL FOR PROPOSED PAVEMENT SECTION
3. REMOVE INTEGRAL CURB & SIDEWALK & SIDEWALK AT NEAREST CONSTRUCTION JOINTS
4. REMOVE AND SALVAGE CONCRETE WHEEL STOPS
5. SAW CUT
6. DEMO ADA POST & SIGN
   FILL VOIDS WITH CEMENT MORTAR WITH CRUSHED AGGREGATE.
7. PROTECT EXISTING FIBER OPTIC LINES DURING CONSTRUCTION
8. PROTECT EXISTING GAS LINE DURING CONSTRUCTION
9. PROTECT EXISTING ELECTRIC LINES DURING CONSTRUCTION
10. PROTECT EXISTING WATER LINES DURING CONSTRUCTION
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DOCUMENT EXISTING PAVEMENT MARKINGS IN THE NORTH BUS LOT AND SUBMIT TO OWNER FOR REVIEW AND APPROVAL. THIS WILL BE THE PAVEMENT MARKINGS THAT NEED TO BE INSTALLED FOLLOWING THE PAVEMENT REPLACEMENT IF THE NORTH BUS PAVEMENT ALTERNATE IS SELECTED

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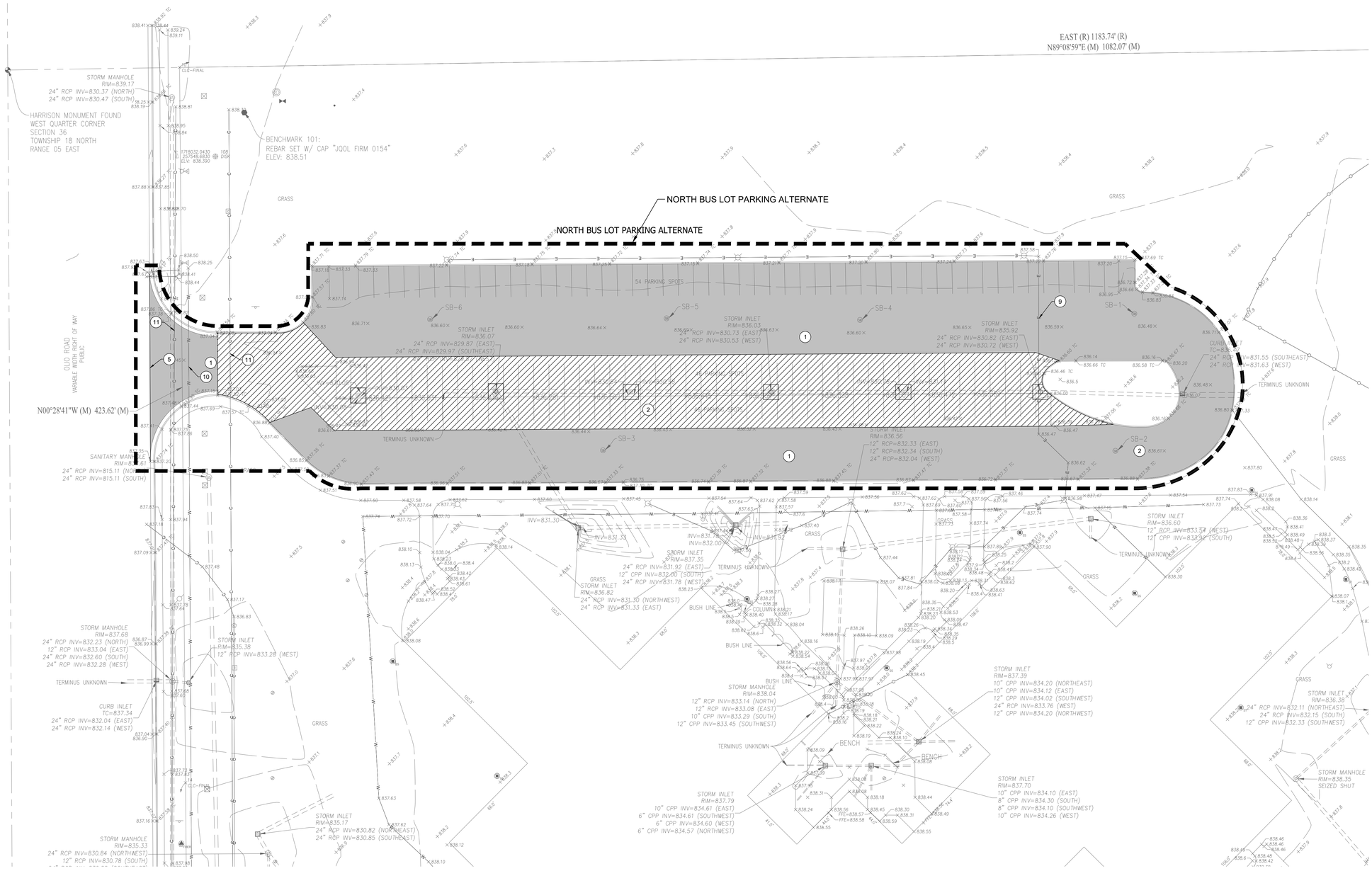
SCALE: 1:30



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REVISIONS
⚠ ADDENDUM #1 07.29.24

07.12.24
HAMILTON SOUTHEASTERN SCHOOLs
23055 • FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd. Fishers, IN 46037
CONSTRUCTION DOCUMENTS

SET TO BE PRINTED IN COLOR

KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

Karen Collins

CONSTRUCTION DOCUMENTS
07.12.24
krM JOB NO.
23055
DRAWN BY
A&F

DRAWING NAME
EXISTING CONDITIONS & DEMO PLAN

⚠ DRAWING NO.
C101

DEMOLITION PLAN NOTES

1. EROSION CONTROL SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBANCE, INCLUDING PAVEMENT REMOVAL.
2. THE CONTRACTOR SHALL HIRE A PRIVATE LOCATER TO VERIFY THE LOCATION AND DEPTH OF UNDERGROUND UTILITIES TO BE PROTECTED, REMOVED, RELOCATED OR ABANDONED PRIOR TO COMMENCING FDR ACTIVITIES. IF CONFLICTS EXIST, NOTIFY THE ENGINEER IMMEDIATELY.
3. THE CONTRACTOR SHALL COORDINATE WORK ASSOCIATED WITH THE REMOVAL, RELOCATION OR ABANDONMENT OF UTILITIES WITH THE UTILITY COMPANY OR ENTITY HAVING OWNERSHIP OF EACH RESPECTIVE UTILITY. COSTS FOR DISCONNECTION, REMOVAL, AND/OR RELOCATION OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS OR AS NECESSARY TO ALLOW FOR EXECUTION OF THE WORK SHALL BE PAID BY THE CONTRACTOR.
4. NO OPEN BURNING SHALL BE PERMITTED ON THE SITE.
5. THE OWNER HAS FIRST SALVAGE RIGHTS ON ALL ITEMS REMOVED. IF OWNER FORFEITS RIGHTS, ALL DEMOLISHED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF-SITE UNLESS OTHERWISE SHOWN.
6. UNLESS SCHEDULED FOR DEMOLITION ON THE DRAWINGS, ALL TREES AND VEGETATION SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE PROJECT. PROTECTIVE MEASURES SHALL INCLUDE INSTALLATION AND MAINTENANCE OF TREE PROTECTION FENCING TO BE LOCATED WHERE SHOWN AND AT THE DRIPLINE OF ALL TREES LOCATED WITHIN CLOSE PROXIMITY OF AREAS WHERE HEAVY EQUIPMENT WILL OPERATE.
7. A CLEAN, STRAIGHT EDGE SHALL BE SAWCUT BETWEEN ALL CONCRETE AND ASPHALT SURFACES SCHEDULED FOR DEMOLITION AND CONCRETE AND ASPHALT SURFACES TO REMAIN IN-PLACE.
8. TERMINAL ENDS OF UNDERGROUND UTILITIES ABANDONED IN-PLACE SHALL BE CUT, CAPPED AND PLUGGED. THE ENDS OF DISCONNECTED UNDERGROUND UTILITIES SHALL BE MARKED FOR FUTURE IDENTIFICATION WITH DETECTABLE LOCATOR TAPE OR A METAL ROD.
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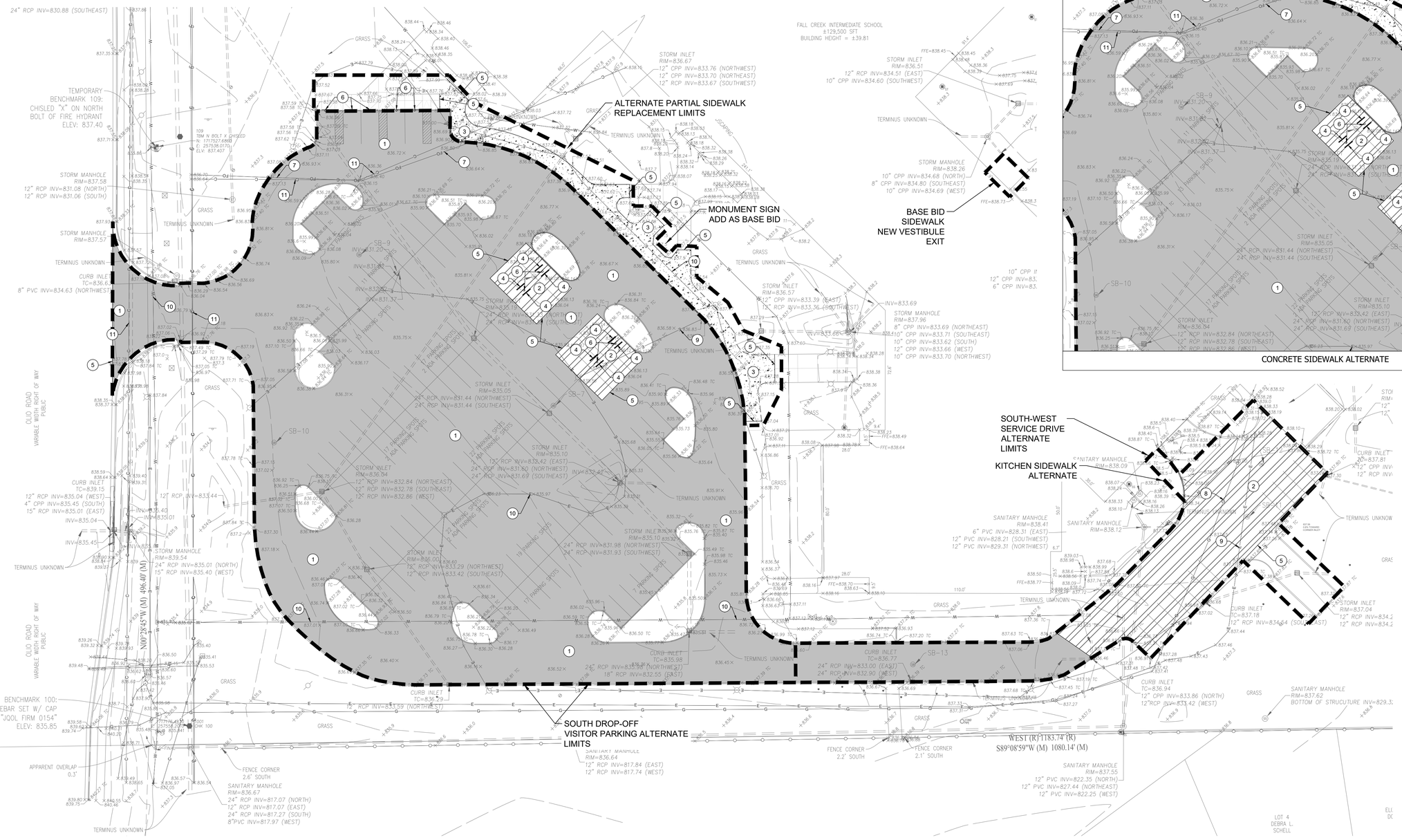

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REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER
KAREN K. COLLINS

CONSTRUCTION DOCUMENTS 07.12.24
krM JOB NO. 23055
DRAWN BY ABF

DRAWING NAME
EXISTING CONDITIONS & DEMO PLAN

DRAWING NO. C102

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GENERAL SITE NOTES

1. CONTRACTOR SHALL ENSURE THAT ALL NECESSARY PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM AGENCIES HAVING JURISDICTION OVER THE WORK PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL OBTAIN AND PAY THE COST OF ALL PERMITS THAT HAVE NOT BEEN SECURED BY THE OWNER.
2. CONTRACTOR SHALL COMPLY WITH THE CONSTRUCTION SAFETY STANDARDS AS ISSUED BY THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION AS SET FORTH IN FINAL RULE 29, PART 1926, WHERE SUCH REGULATIONS APPLY TO THE WORK.
3. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AND REQUEST FIELD LOCATIONS OF FACILITIES WITHIN THE WORK AREA PRIOR TO COMMENCING EXCAVATION ACTIVITIES. CONTRACTOR SHALL REPORT ANY VARIATIONS FROM THE LOCATIONS SHOWN THAT MAY PRESENT A CONFLICT WITH EXECUTION OF THE WORK TO THE ENGINEER PRIOR TO CONSTRUCTION.
4. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS.
5. MAINTENANCE OF TRAFFIC SHALL BE PER THE MUTCD. COORDINATE ANY CLOSURES WITH THE SCHOOL.

SITE DEVELOPMENT PLAN NOTES

1. TRANSVERSE EXPANSION JOINTS ARE TO BE PROVIDED IN CONCRETE SIDEWALKS AND COMBINED WALKS/CURBS WHERE SHOWN AND AT INTERVALS NOT TO EXCEED 12 x THE WIDTH OF THE WALK.
2. EXPANSION JOINTS SHALL BE INSTALLED IN CONCRETE PAVEMENTS AND WALKS AT ALL LOCATIONS WHERE PAVEMENTS AND WALKS ABUT A VERTICAL SURFACE SUCH AS A CURB, WALL, COLUMN, ETC.
3. CONTRACTION JOINTS SHALL BE PROVIDED AT EQUAL INTERVALS BETWEEN EXPANSION JOINTS IN CONCRETE WALKS. INSTALL CONTRACTION JOINTS AS SHOWN BUT IN NO CASE AT INTERVALS GREATER THAN 1.5 x THE WIDTH OF THE WALK.

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7. ADA PARKING SIGN
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9. WHITE PAVEMENT MARKING - INSTALL TO MATCH EXISTING CONDITION UNLESS OTHER WISE SHOWN (ALL PARKING STALL & STOP BARS / LETTERS SHALL BE WHITE)
10. SIDEWALK RAMP WITH DETECTABLE WARNING
11. MONUMENT SIGN (12' L x 5.5'H x 2'D) SEE ARCHITECTURAL PLAN
12. ACCESSIBLE CROSSWALK PAINT

TOTAL PARKING = 306

ADA PARKING = 8

STRIPING NOTE

ALL STRIPING SHALL BE REPLACED TO MATCH EXISTING CONDITION EXCEPT WHERE SHOWN. ALL EXISTING WHITE AND YELLOW MARKINGS SHALL BE RETAINED. ALL CURBS THAT ARE CURRENTLY PAINTED YELLOW SHALL BE REPAINTED YELLOW PER PROJECT SPECIFICATIONS.

NOTE

ALL CURBS, SIDEWALKS AND POWER POLES SHALL BE POWER WASHED.

0 30' 60'

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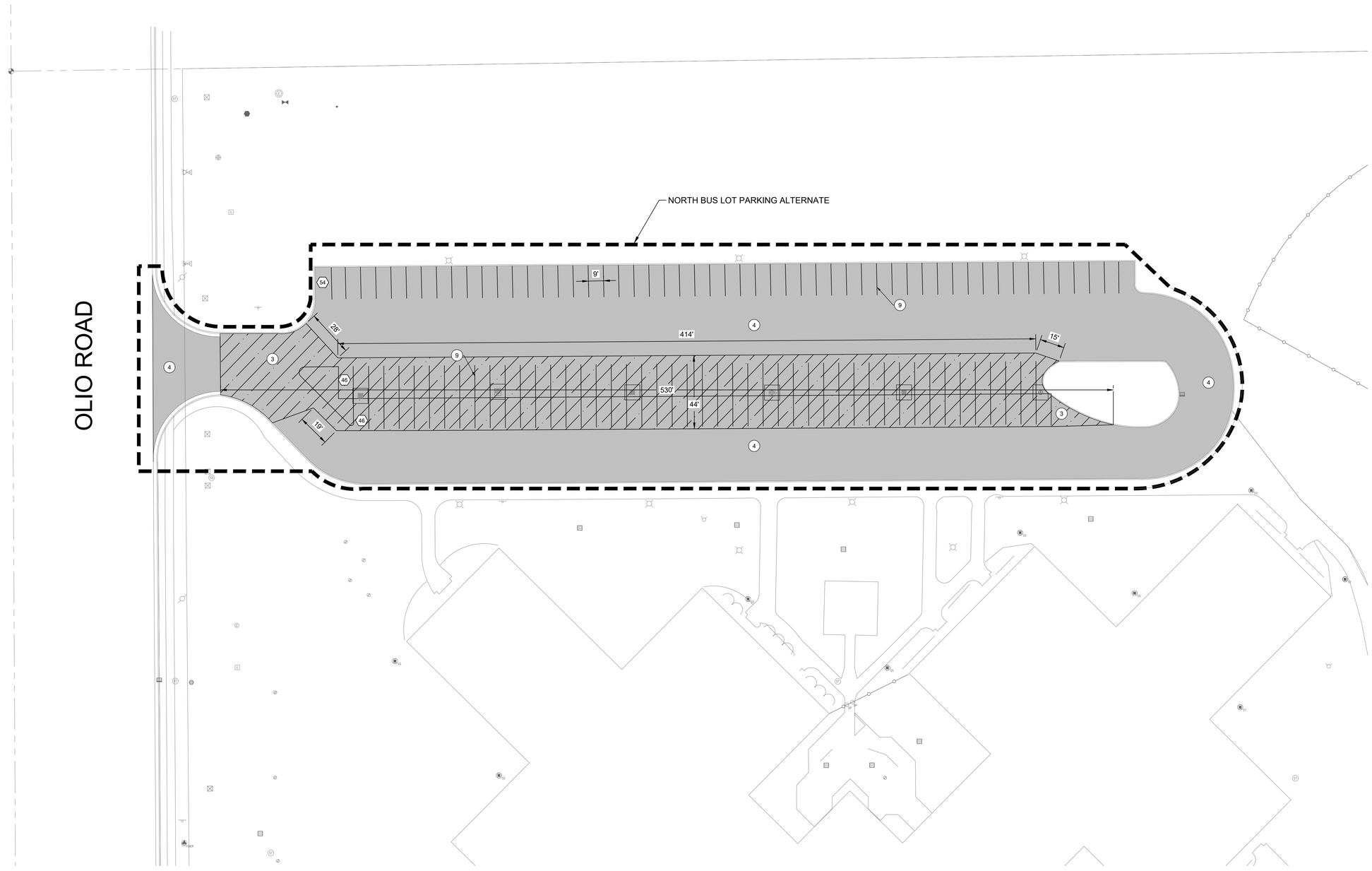

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07.12.24

HAMILTON SOUTHEASTERN SCHOOLs

23055 - FALL CREEK INTERMEDIATE RENOVATIONS

12011 Olio Rd, Fishers, IN 46037

CONSTRUCTION DOCUMENTS

SET TO BE PRINTED IN COLOR

KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

Karen Collins

CONSTRUCTION DOCUMENTS 07.12.24

krM JOB NO. 23055

DRAWN BY A&F

DRAWING NAME: SITE PLAN

DRAWING NO. C201

Z:\2024\24007\--KRM ARCHITECTURE_LAND DEVELOPMENT_FALL CREEK INTERMEDIATE RENOVATION\DWGS\C201 SITE PLAN.DWG plotted by NICHOLAS MACK on 7/26/2024 11:49:46 AM last saved by NMACK on 7/26/2024 11:36:42 AM
Xrefs: 24001_BASE TOPO.DWG & 24001_BASE SITE.DWG & X_24A36 1TL BLOCK.DWG

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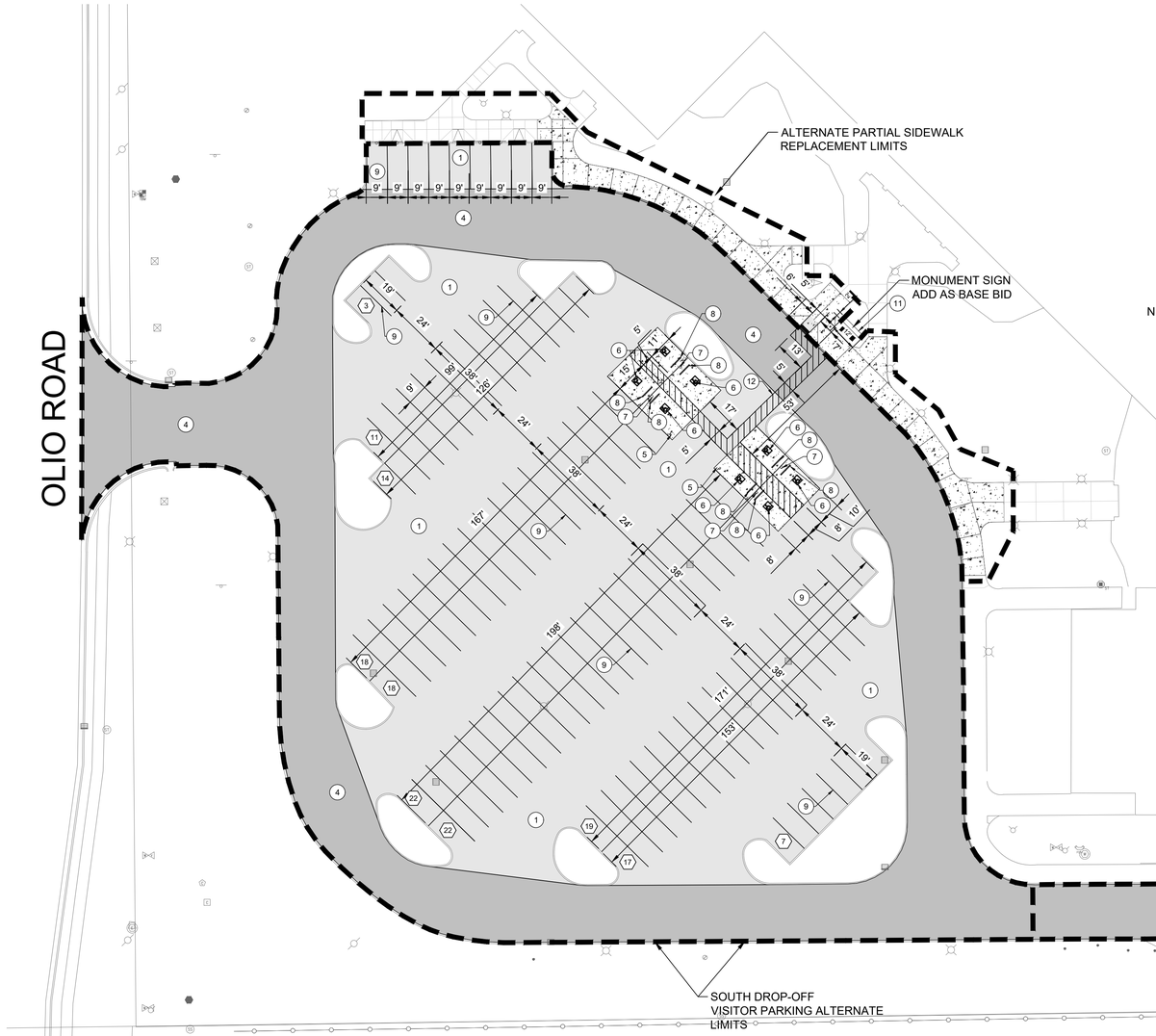

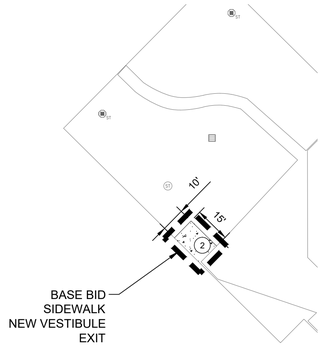

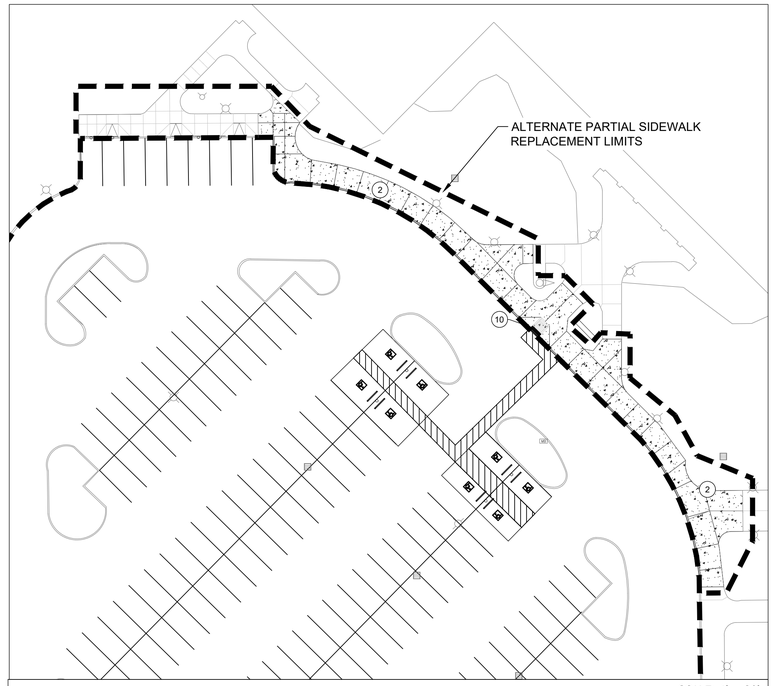

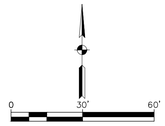

SCALE: 1" = 30'

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krM JOB NO.
23055
DRAWN BY
A&F

DRAWING NAME
SITE PLAN

DRAWING NO.
C202

EXISTING LINETYPES LEGEND

D.S.	DOWNSPOUT
	STORM LINE
	SANITARY LINE
G	GAS LINE
W	WATER LINE
C	UNDERGROUND COMM LINE
E	ELECTRIC LINE
FO	FIBER OPTIC

UTILITY NOTES

1. WHERE GRADE MODIFICATIONS (CUT OR FILL) ARE SHOWN ADJACENT TO EXISTING VALVE BOX COVERS AND MANHOLE CASTINGS, THE VALVE BOX COVERS AND MANHOLE CASTINGS SHALL BE ADJUSTED FLUSH WITH THE PROPOSED GRADE.
2. PAVEMENTS, WALKS, CURBS AND OTHER SURFACE IMPROVEMENTS REQUIRING REMOVAL FOR INSTALLATION OF UNDERGROUND UTILITIES SHALL BE RESTORED TO THEIR PRESENT CONDITION UNLESS OTHERWISE SHOWN.
3. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS, ETC. WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNER, UTILITY COMPANIES, AND GOVERNING AUTHORITIES. THE CONTRACTOR SHALL INSTALL AS NECESSARY, TEMPORARY SITE LIGHTING, GAS, SANITARY, WATER, STORM, ELECTRIC, TELEPHONE, AND CABLE SERVICES TO SERVICE BUILDING(S) TO REMAIN OPEN.
4. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR SITE LIGHTING PER SITE LIGHTING PLAN (BY OTHERS).
5. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR IRRIGATION PER IRRIGATION PLAN (BY OTHERS).
6. CONTRACTOR WILL BE RESPONSIBLE TO REPAIR, REPLACE, AND/OR RECONNECT ANY EXISTING DRAINAGE TILES NOT SHOWN ON THE PLANS, WHICH CROSS THROUGH EXCAVATED TRENCHES. ANY DRAINAGE TILE ENCOUNTERED IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND A MEASUREMENT TAKEN FROM THE NEAREST MANHOLE OR INLET STRUCTURE TO THE CENTERLINE OF THE TILE.

GRADING NOTES

1. TOPSOIL SHALL BE STRIPPED FROM ALL AREAS TO RECEIVE PAVING AND FROM WITHIN THE LIMITS OF PROPOSED BUILDINGS AND STRUCTURES. TOPSOIL SHALL BE STRIPPED TO THE DEPTH SHOWN IN THE GEOTECHNICAL REPORT, OR TO A DEPTH OF 6 INCHES, WHICHEVER IS GREATER.
2. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED OR SODDED UNLESS OTHERWISE SHOWN.
3. FINAL GRADES AT THE PROJECT BOUNDARY SHALL MATCH EXISTING ELEVATIONS UNLESS OTHERWISE SHOWN.

GRADING PLAN LEGEND

LINE TYPE / SYMBOL	DESCRIPTION	LINE TYPE / SYMBOL	DESCRIPTION
772.40 ME	MATCH EXISTING	F.F.E.	FINISHED FLOOR ELEVATION
772.40	PAVEMENT SPOT GRADE	HP	HIGH POINT
772.40 HP	PAVEMENT SPOT GRADE HIGH POINT	LP	LOW POINT
771.20T.C. 770.70B.C.	TOP OF CURB AND BOTTOM OF CURB	601	INTERMEDIATE CONTOUR
HP 771.20 T.C. 770.70B.C.	TOP OF CURB AND BOTTOM OF CURB HIGH POINT	600	INDEX CONTOUR
771.20T.C. ME 770.70B.C. ME	TOP OF CURB AND BOTTOM OF CURB MATCH EXISTING		GRADE BREAK
1.00%	FLOW DIRECTION w/GRADE		EXISTING INTERMEDIATE CONTOUR
			EXISTING INDEX CONTOUR

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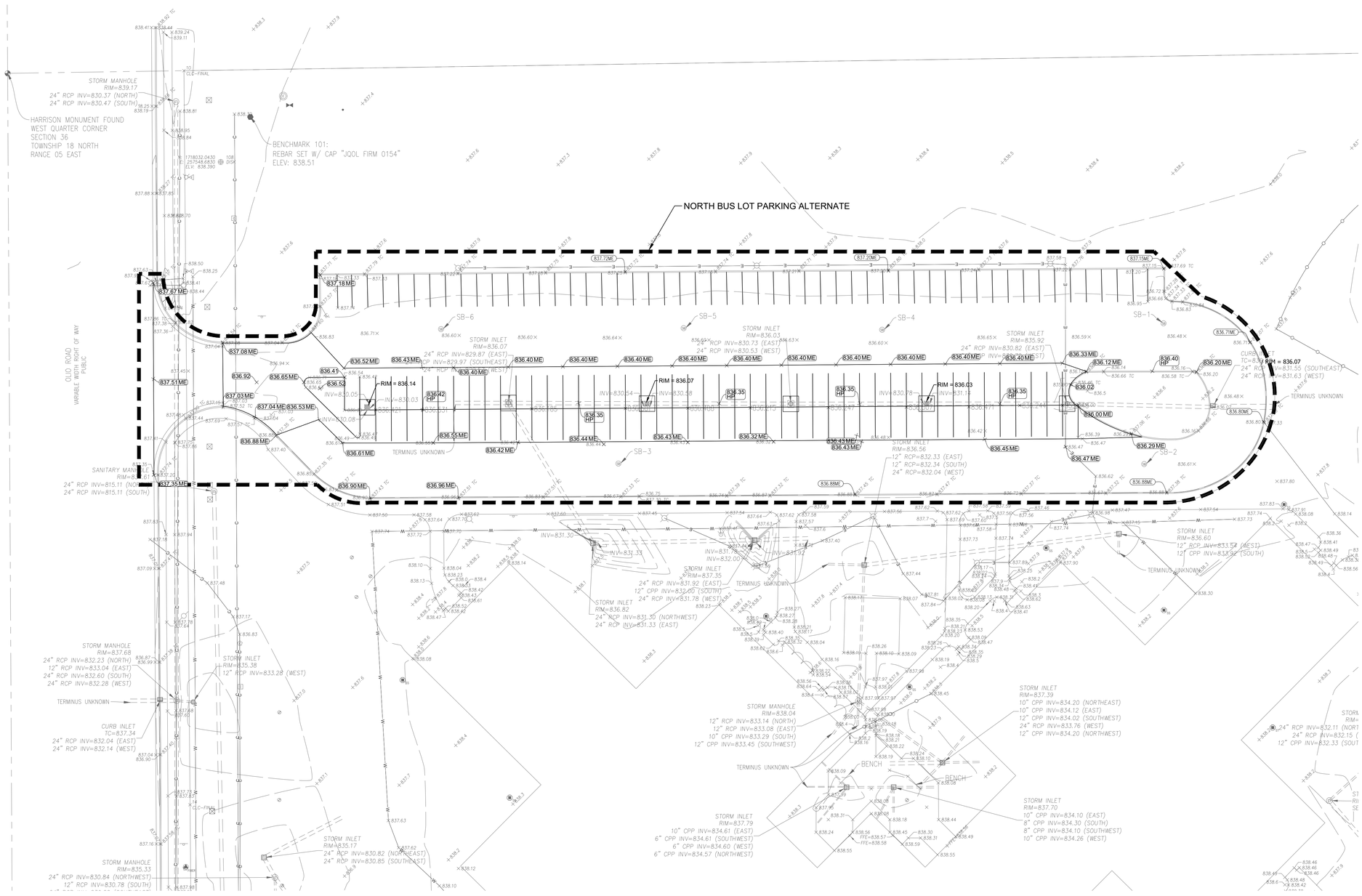

Z:\2024\24005\--KRM ARCHITECTURE_LAND DEVELOPMENT_FALL CREEK INTERMEDIATE RENOVATION\DWGS\C301 GRADING & UTILITY PLAN.DWG plotted by NICHOLAS MACK on 7/26/2024 11:45:35 AM last saved by SDROURKE on 7/25/2024 4:45:06 PM
Xrefs: 24001F BASE TOPOLOGY & 24001E BASE SITEDWG & X_24A08 1TL BLOCK.DWG

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12011 Olio Rd, Fishers, IN 46037
CONSTRUCTION DOCUMENTS

SET TO BE PRINTED IN COLOR

KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

CONSTRUCTION DOCUMENTS 07.12.24
krM JOB NO. 23055
DRAWN BY A&F

DRAWING NAME
GRADING & UTILITY PLAN

DRAWING NO. C301

EXISTING LINETYPES LEGEND

D.S.	DOWNSPOUT
	STORM LINE
	SANITARY LINE
G	GAS LINE
W	WATER LINE
C	UNDERGROUND COMM LINE
E	ELECTRIC LINE
FO	FIBER OPTIC

UTILITY NOTES

1. WHERE GRADE MODIFICATIONS (CUT OR FILL) ARE SHOWN ADJACENT TO EXISTING VALVE BOX COVERS AND MANHOLE CASTINGS, THE VALVE BOX COVERS AND MANHOLE CASTINGS SHALL BE ADJUSTED FLUSH WITH THE PROPOSED GRADE.
2. PAVEMENTS, WALKS, CURBS AND OTHER SURFACE IMPROVEMENTS REQUIRING REMOVAL FOR INSTALLATION OF UNDERGROUND UTILITIES SHALL BE RESTORED TO THEIR PRESENT CONDITION UNLESS OTHERWISE SHOWN.
3. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS, ETC. WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNER, UTILITY COMPANIES, AND GOVERNING AUTHORITIES. THE CONTRACTOR SHALL INSTALL AS NECESSARY, TEMPORARY SITE LIGHTING, GAS, SANITARY, WATER, STORM, ELECTRIC, TELEPHONE, AND CABLE SERVICES TO SERVICE BUILDING(S) TO REMAIN OPEN.
4. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR SITE LIGHTING PER SITE LIGHTING PLAN (BY OTHERS).
5. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR IRRIGATION PER IRRIGATION PLAN (BY OTHERS).
6. CONTRACTOR WILL BE RESPONSIBLE TO REPAIR, REPLACE, AND/OR RECONNECT ANY EXISTING DRAINAGE TILES NOT SHOWN ON THE PLANS, WHICH CROSS THROUGH EXCAVATED TRENCHES. ANY DRAINAGE TILE ENCOUNTERED IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND A MEASUREMENT TAKEN FROM THE NEAREST MANHOLE OR INLET STRUCTURE TO THE CENTERLINE OF THE TILE.

GRADING PLAN LEGEND

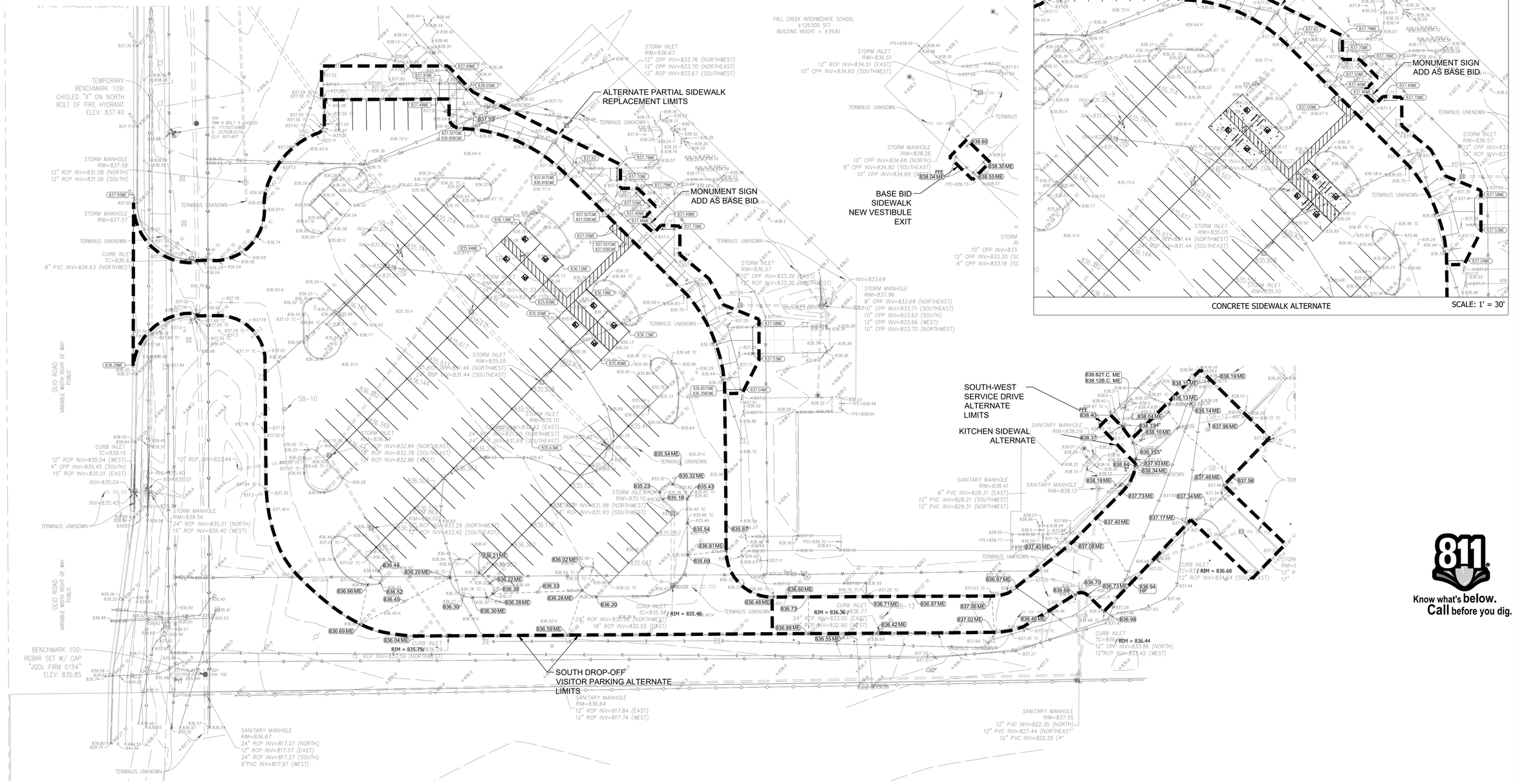
LINE TYPE / SYMBOL	DESCRIPTION	LINE TYPE / SYMBOL	DESCRIPTION
772.40 ME	MATCH EXISTING	F.F.E.	FINISHED FLOOR ELEVATION
772.40	PAVEMENT SPOT GRADE	HP	HIGH POINT
772.40 HP	PAVEMENT SPOT GRADE HIGH POINT	LP	LOW POINT
771.20T.C. 770.70B.C. HP	TOP OF CURB AND BOTTOM OF CURB	805	INTERMEDIATE CONTOUR
771.20 T.C. 770.70 B.C.	TOP OF CURB AND BOTTOM OF CURB HIGH POINT	800	INDEX CONTOUR
771.20T.C. ME 770.70B.C. ME	TOP OF CURB AND BOTTOM OF CURB MATCH EXISTING		GRADE BREAK
1.00%	FLOW DIRECTION w/GRADE		EXISTING INTERMEDIATE CONTOUR
			EXISTING INDEX CONTOUR

GRADING NOTES

1. TOPSOIL SHALL BE STRIPPED FROM ALL AREAS TO RECEIVE PAVING AND FROM WITHIN THE LIMITS OF PROPOSED BUILDINGS AND STRUCTURES. TOPSOIL SHALL BE STRIPPED TO THE DEPTH SHOWN IN THE GEOTECHNICAL REPORT, OR TO A DEPTH OF 6 INCHES, WHICHEVER IS GREATER.
2. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED OR SODDED UNLESS OTHERWISE SHOWN.
3. FINAL GRADES AT THE PROJECT BOUNDARY SHALL MATCH EXISTING ELEVATIONS UNLESS OTHERWISE SHOWN.

0 30' 60'

SCALE: 1" = 30'



krM Architecture+
A&F ENGINEERING Transportation & Site Engineering
RDG
kbsd CONSULTING
LHB Lynch, Harrison & Brumleve, Inc.

REVISIONS

1	ADDENDUM #1	07.29.24

07.12.24
HAMILTON SOUTHEASTERN SCHOOLS
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd, Fishers, IN 46037
CONSTRUCTION DOCUMENTS

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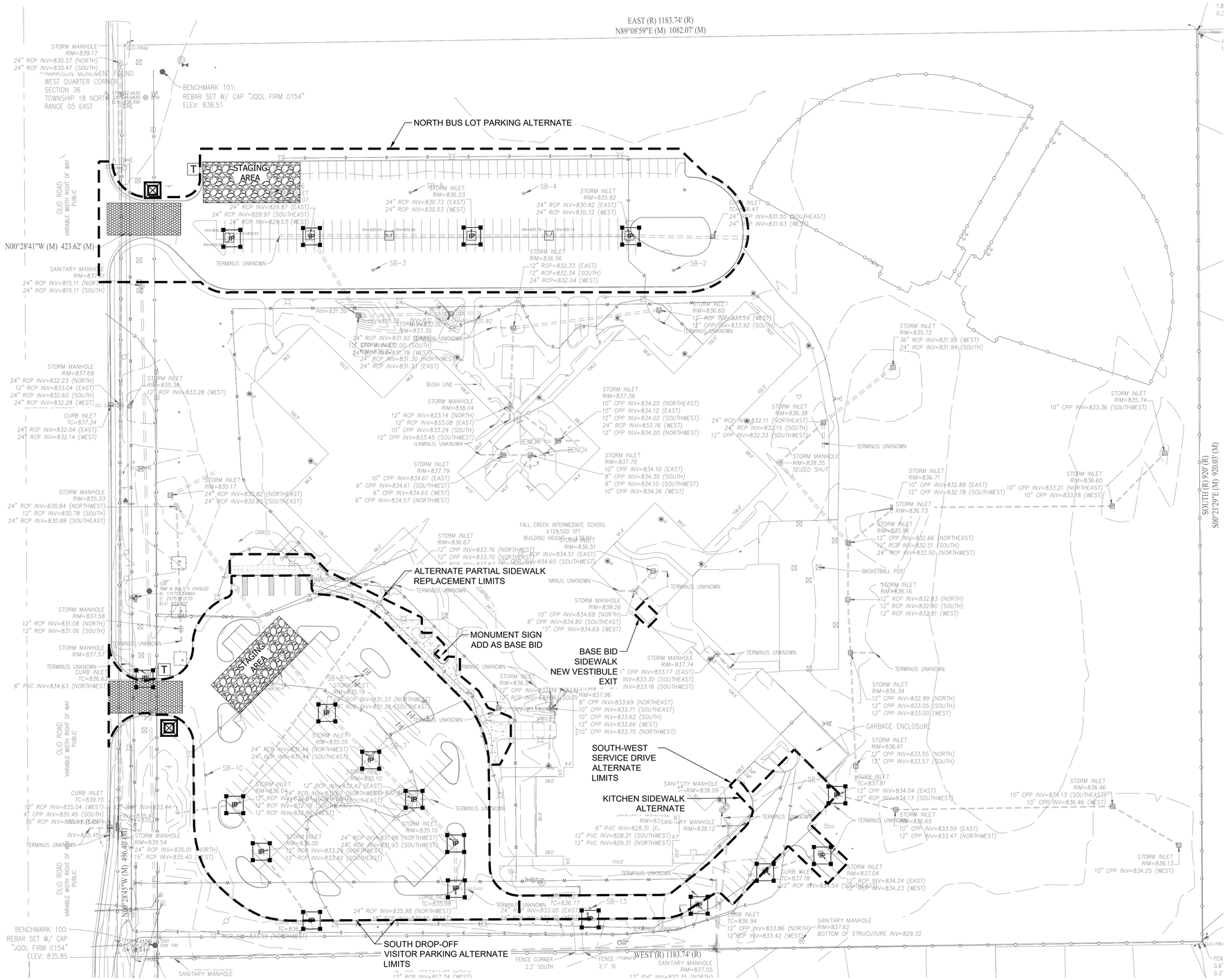
CONSTRUCTION DOCUMENTS 07.12.24
krM JOB NO. 23055
DRAWN BY A&F

DRAWING NAME
GRADING & UTILITY PLAN

DRAWING NO.
C302

Z:\2024\24007-krM ARCHITECTURE, LAND DEVELOPMENT, FALL CREEK INTERMEDIATE RENOVATION\DWGS\C301 GRADING & UTILITY PLAN.DWG plotted by NICHOLAS MACK on 7/26/2024 11:44:18 AM last saved by SCROURKE on 7/25/2024 4:45:06 PM
Xrefs: 24007-BASE TOPO.DWG & X_24A05 TTL BLOCK.DWG



0 50' 100'

SCALE: 1" = 50'

EROSION CONTROL NOTES

1. UNLESS OTHERWISE SHOWN, TEMPORARY CONTROL MEASURES SHALL BE REMOVED UPON SATISFACTORY ESTABLISHMENT OF PERMANENT VEGETATION.
2. SEE SHEET C403 FOR DETAILS AND SPECIFICATIONS REFERENCED ON THIS SHEET.
3. IN ADDITION TO THE MAINTENANCE REQUIREMENTS IDENTIFIED FOR INDIVIDUAL MEASURES, ALL EROSION CONTROL MEASURES INSTALLED UNDER THIS PROJECT SHALL BE INSPECTED WEEKLY TO ENSURE THEY ARE FUNCTIONING PROPERLY. MEASURES FOUND TO BE DEFICIENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY THEREAFTER.
4. THE CONTRACTOR SHALL MAINTAIN A STABLE CONSTRUCTION ENTRANCE AT ALL TIMES AND SHALL MAKE EFFORTS TO MINIMIZE THE ACCUMULATION OF SOIL, MUD AND DEBRIS ON ADJOINING ROADWAYS.
5. SYMBOLS FOR INLET PROTECTION MEASURES ARE SHOWN LARGER THAN ACTUAL SIZE.
6. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE INSPECTOR.
7. PORTABLE TOILETS SHALL BE ANCHORED TO THE GROUND TO PREVENT TIPPING AND SPILLS.

EROSION CONTROL LEGEND

LINE TYPE / SYMBOL	DESCRIPTION	LINE TYPE / SYMBOL	DESCRIPTION
	TEMPORARY CONSTRUCTION ENTRANCE 6 INCHES OF 2"-3" COARSE AGGREGATE (20'W x 50'L) Minimum	IP	TEMPORARY INLET PROTECTION
	STAGING AREA		
	CONCRETE WASHOUT		
T	TEMP RESTROOM		

PEDESTRIAN SAFETY NOTES

THE CONTRACTOR SHALL ENSURE THE SAFETY OF STUDENTS, STAFF, VISITORS AND PEDESTRIANS AT ALL TIMES. IF NECESSARY, ORANGE SAFETY FENCE & BARRELS SHALL BE EMPLOYED TO KEEP BY STANDARDS AWAY FROM CONSTRUCTION AREAS.

PRE-CONSTRUCTION SEQUENCING NOTES

1. INSTALL CONSTRUCTION ENTRANCE, INLET PROTECTION AND CONCRETE WASHOUT AS SHOWN ON THE PLANS.
2. INSTALL PORT-A-LET, AND COVERED CONSTRUCTION DUMPSTER.
3. PERFORM REQUIRED SITE DEMOLITION AND CLEARING.
4. STRIP TOPSOIL AND STORE OFFSITE.
5. MAINTAIN ALL INLET PROTECTION, AND SILT FENCING ON THE SITE PROJECT BY CLEANING OUT EVERY WEEK AND AFTER EVERY RAIN EVENT OF 1/2" OR GREATER DEPTH.
6. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY THE INSPECTOR.

THERE SHALL BE NO DIRT, DEBRIS, OR STORAGE OF MATERIAL IN THE STREET

ADJACENT ROADS MUST BE SWEPT DAILY

Know what's **below.** **Call** before you dig.

krM Architecture+

A.F ENGINEERING Transportation & Site Engineering

kbso CONSULTING

Lynch, Harrison & Brumleve, Inc.

REVISIONS
1 ADDENDUM #1 07.29.24

07.12.24
HAMILTON SOUTHEASTERN SCHOOLS
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd. Fishers, IN 46037
CONSTRUCTION DOCUMENTS

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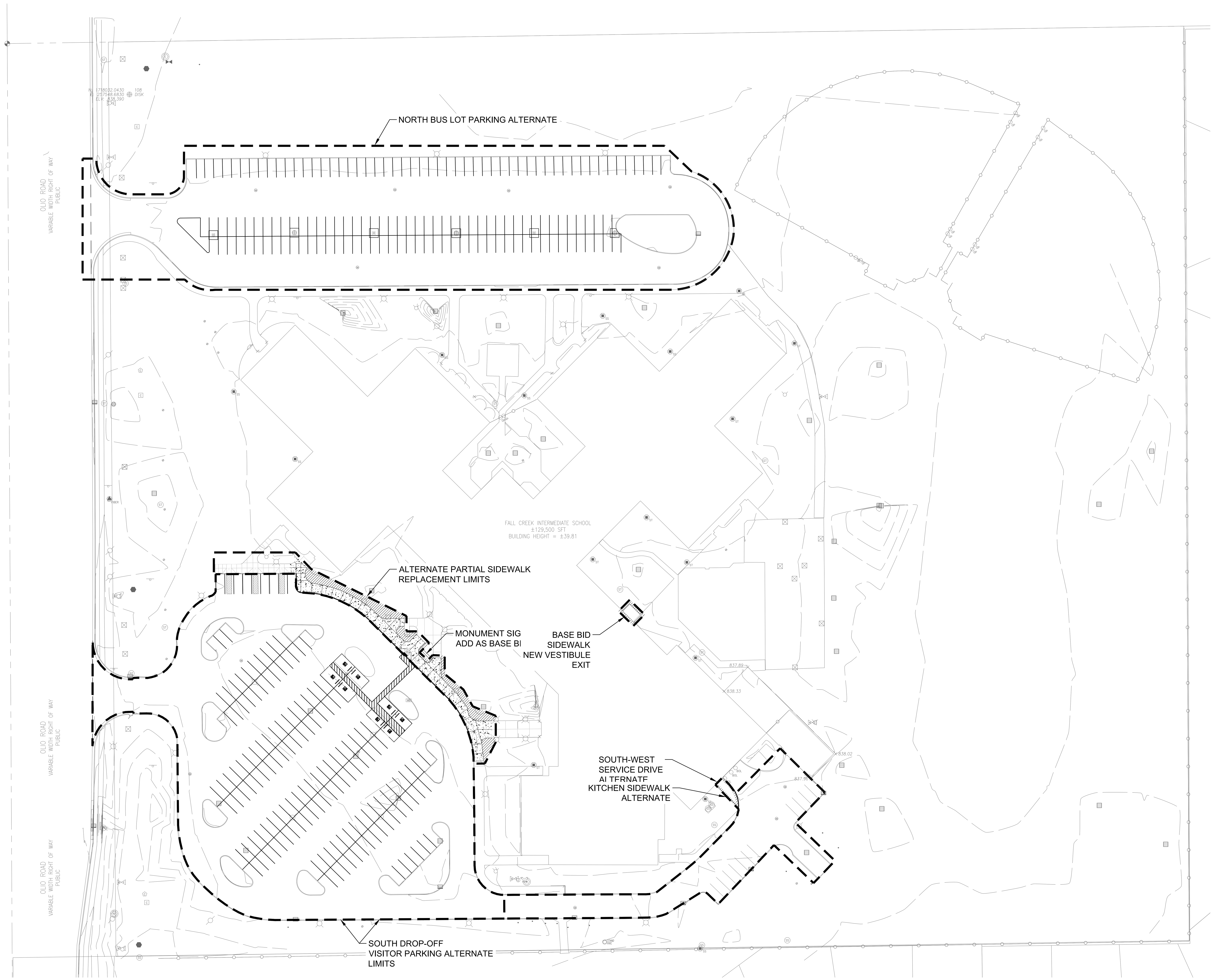
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

CONSTRUCTION DOCUMENTS
07.12.24
krM JOB NO.
23055
DRAWN BY
ASF

DRAWING NAME
SWPPP PLAN (INITIAL)

DRAWING NO.
C401

Z:\2024\24007\-krM ARCHITECTURE, LAND DEVELOPMENT, FALL CREEK INTERMEDIATE RENOVATION\DWGS\C401 SWPPP PLAN (INITIAL).DWG plotted by NICHOLAS MACK on 7/26/2024 11:50:27 AM last saved by SOROURKE on 7/25/2024 3:58:46 PM
XREFs: 24007L BASE TOPOLOGY & X_24007L TTE BLOCKLING



0 50' 100'

SCALE: 1" = 50'

EROSION CONTROL NOTES

1. UNLESS OTHERWISE SHOWN, TEMPORARY CONTROL MEASURES SHALL BE REMOVED UPON SATISFACTORY ESTABLISHMENT OF PERMANENT VEGETATION.
2. SEE SHEET C403 FOR DETAILS REFERENCED ON THIS SHEET.
3. IN ADDITION TO THE MAINTENANCE REQUIREMENTS IDENTIFIED FOR INDIVIDUAL MEASURES, ALL EROSION CONTROL MEASURES INSTALLED UNDER THIS PROJECT SHALL BE INSPECTED WEEKLY TO ENSURE THEY ARE FUNCTIONING PROPERLY. MEASURES FOUND TO BE DEFICIENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY THEREAFTER.
4. THE CONTRACTOR SHALL MAINTAIN A STABLE CONSTRUCTION ENTRANCE AT ALL TIMES AND SHALL MAKE EFFORTS TO MINIMIZE THE ACCUMULATION OF SOIL, MUD AND DEBRIS ON ADJOINING ROADWAYS.
5. SYMBOLS FOR INLET PROTECTION MEASURES AND DITCH CHECKS ARE SHOWN LARGER THAN ACTUAL SIZE.
6. DISTURBED AREAS AND STOCKPILES THAT ARE TO REMAIN IDLE FOR MORE THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.
7. KEEP INLET FILTER FABRIC IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.

THERE SHALL BE NO DIRT, DEBRIS, OR STORAGE OF MATERIAL IN THE STREET

ADJACENT ROADS MUST BE SWEPT DAILY

NOTE: CONTRACTOR SHALL FULLY RESTORE ANY AREAS IMPACTED BY CONSTRUCTION.

MAINTENANCE SEQUENCING NOTES

THE CONTRACTOR SHALL ENSURE THE SAFETY OF STUDENTS, STAFF, VISITORS AND PEDESTRIANS AT ALL TIMES. IF NECESSARY, ORANGE SAFETY FENCE & BARRELS SHALL BE EMPLOYED TO KEEP BY STANDARDS AWAY FROM CONSTRUCTION AREAS.

EROSION CONTROL LEGEND

LINE TYPE / SYMBOL	DESCRIPTION	LINE TYPE / SYMBOL	DESCRIPTION
(hatched area)	APPLY PERMANENT SEED & MULCH TO ALL DISTURBED UNVEGETATED AREAS		

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kbso CONSULTING

LHB Lynch, Harrison & Brumleve, Inc.

REVISIONS
△ ADDENDUM #1 07.29.24

07.12.24
HAMILTON SOUTHEASTERN SCHOOLs
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CONSTRUCTION DOCUMENTS

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KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

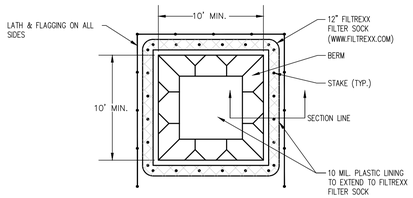
Karen Collins

CONSTRUCTION DOCUMENTS 07.12.24
krM JOB NO. 23055
DRAWN BY A&F

DRAWING NAME
SWPPP PLAN (FINAL)

811 Know what's below. Call before you dig.

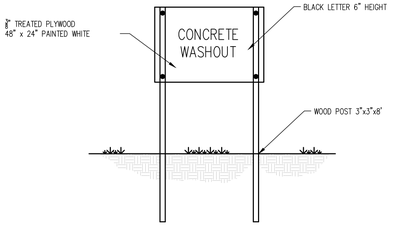
△1
DRAWING NO.
C402



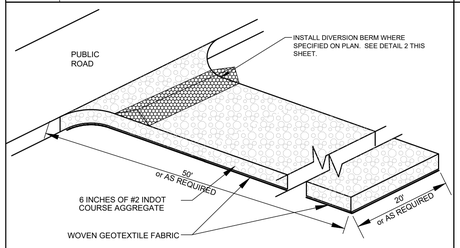
PLAN

SECTION

NOTE:
1. WASHOUT LOCATION SHOWN ON EROSION CONTROL PLAN.
   DRY CONCRETE TO BE REMOVED FROM SITE PERIODICALLY AND DISPOSED OF BY
2. APPROVED METHODS.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN
   30FT. OF THE TEMP. CONCRETE WASHOUT FACILITY.

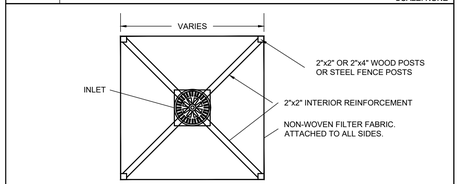


1 CONCRETE WASHOUT
SCALE: NONE

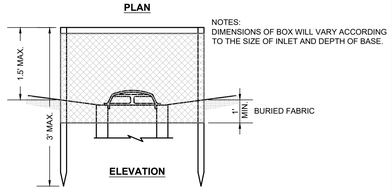


MAINTENANCE REQUIREMENTS
1. INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY, AFTER STORM EVENTS, AND/OR HEAVY USE.
2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOPDRESS WITH CLEAN STONE AS NEEDED.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSH ONLY IF WATER IS CONVEYED TO A SEDIMENT TRAP OR BASIN.
5. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.

2 TEMPORARY CONSTRUCTION ENTRANCE
SCALE: NONE



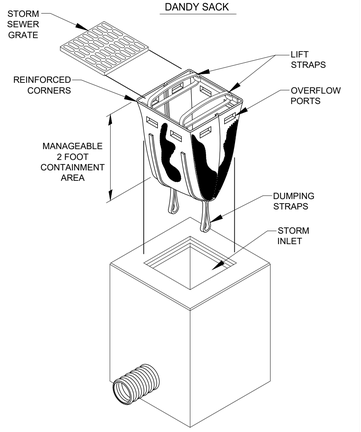
PLAN



ELEVATION

3 FABRIC DROP INLET PROTECTION
SCALE: NONE

DANDY SACK



DANDY SACK™ SPECIFICATIONS

NOTE: THE DANDY SACK™ WILL BE **MANUFACTURED IN THE U.S.A.** FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

REGULAR FLOW DANDY SACK™ (BLACK)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.78 (400) x 1.40 (315)
Grab Tensile Elongation	ASTM D 4632	%	15 x 15
Puncture Strength	ASTM D 4833	kN (lbs)	0.67 (150)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5506 (800)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.67 (150) x 0.73 (165)
UV Resistence	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm. (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	2852 (70)
Permittivity	ASTM D 4491	Sec⁻¹	0.80

HI-FLOW DANDY SACK™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistence	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm. (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	5907 (145)
Permittivity	ASTM D 4491	Sec⁻¹	2.1

*Note: All Dandy Sacks™ can be ordered with our optional oil absorbent pillows

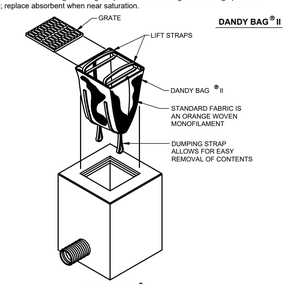
4 DROP INLET DANDY BAG PROTECTION
SCALE: NONE

DANDY BAG ® II

Installation and Maintenance Guidelines

Installation: Remove the grate from catch basin. If using optional oil absorbents; place absorbent pillow in unit. Stand the grate on end. Move the top lifting straps out of the way and place the grate into the Dandy Bag® II so that the grate is below the top straps and above the lower straps. Holding the lifting devices, insert the grate into the inlet.

Maintenance: Remove all accumulated sediment and debris from vicinity of unit after each storm event. After each storm event and at regular intervals, look into the Dandy Bag® II. If the containment area is more than 1/3 full of sediment, the unit must be emptied. To empty unit, lift the unit out of the inlet using the lifting straps and remove the grate. If using optional oil absorbents; replace absorbent when near saturation.

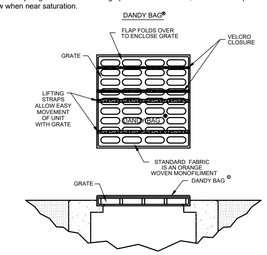


DANDY BAG®

Installation and Maintenance Guidelines

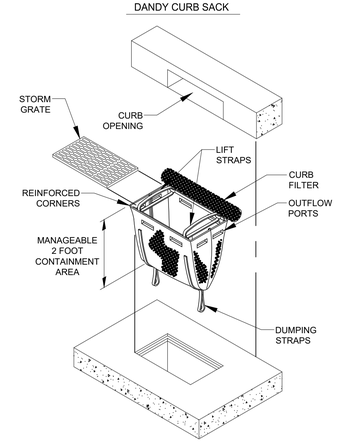
Installation: The empty Dandy Bag® should be placed over the grate as the grate stands on end. If using optional oil absorbents; place absorbent pillow in pouch, on the bottom (below-grade side) of the unit. Attach absorbent pillow to tether loop. Tuck the enclosure flap inside to completely enclose the grate. Holding the lifting devices (do not rely on lifting devices to support the entire weight of the grate), place the grate into its frame.

Maintenance: Remove all accumulated sediment and debris from surface and vicinity of unit after each storm event. Remove sediment that has accumulated within the containment area of the Dandy Bag® as needed. If using optional oil absorbents; remove and replace absorbent pillow when near saturation.



5 DANDY BAG DETAILS
SCALE: NONE

DANDY CURB SACK



DANDY CURB SACK™ SPECIFICATIONS

NOTE: THE DANDY CURB SACK™ WILL BE **MANUFACTURED IN THE U.S.A.** FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

REGULAR FLOW DANDY CURB SACK™ (BLACK)

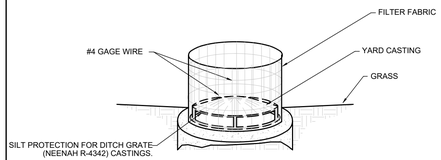
Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.78 (400) x 1.40 (315)
Grab Tensile Elongation	ASTM D 4632	%	15 x 15
Puncture Strength	ASTM D 4833	kN (lbs)	0.67 (150)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5506 (800)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.67 (150) x 0.73 (165)
UV Resistence	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm. (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	2852 (70)
Permittivity	ASTM D 4491	Sec⁻¹	0.80

HI-FLOW DANDY CURB SACK™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistence	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm. (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	5907 (145)
Permittivity	ASTM D 4491	Sec⁻¹	2.1

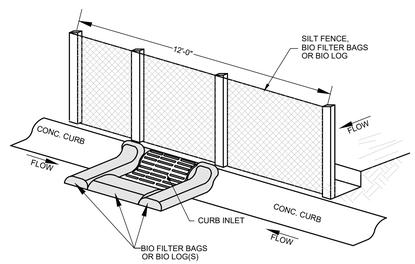
*Note: All Dandy Sacks™ can be ordered with our optional oil absorbent pillows

6 DROP INLET DANDY BAG PROTECTION WITH CURB FILTER
SCALE: NONE



MAINTENANCE
1. INSPECT THE DROP INLET PROTECTION AFTER EACH STORM EVENT, AND MAKE NEEDED REPAIRS IMMEDIATELY.
2. REMOVE SEDIMENT FROM THE POOL AREA TO ENSURE ADEQUATE RUNOFF STORAGE FOR THE NEXT RAIN
3. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ALL BARRELS, CONSTRUCTION MATERIAL, AND SEDIMENT AND DISPOSE OF PROPERLY, GRADE THE DISTURBED AREA TO THE ELEVATION OF THE TOP OF THE INLET AND STABILIZE.

7 WELDED WIRE INLET PROTECTION
SCALE: NONE



MAINTENANCE
1. INSPECT AFTER EACH STORM EVENT, AND REMOVE ANY SEDIMENT DEPOSITS PROMPTLY (TO INSURE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN),
2. ALSO INSPECT PERIODICALLY FOR DETERIORATION OR DAMAGE FROM CONSTRUCTION ACTIVITIES, AND REPAIR IMMEDIATELY.
3. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ALL PROTECTION DEVICES AND SEDIMENT, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE IT.

8 CURB INLET PROTECTION
SCALE: NONE

TEMPORARY SEEDING DATES	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
WHEET OR RYE												
OATS												
ANNUAL RYEGRASS												

PERMANENT SEEDING DATES	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
NON-IRRIGATED*												
IRRIGATED												
DORMANT SEEDING**												

IRRIGATION NEEDED DURING THIS PERIOD TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREAS USE MULCH

* LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED

** INCREASE SEEDING APPLICATION BY 50%

TEMPORARY SEEDING RATE

TYPE OF SEED	1,000 SF	ACRE	REMARKS
WHEET OR RYE	3.5 LBS.	2 BU.	COVER SEED 1"-1 1/2" DEEP
SPRING OATS	2.3 LBS.	3 BU.	COVER SEED 1" DEEP
ANNUAL RYEGRASS	1 LB.	40 LB.	COVER SEED 1/4" DEEP

PERMANENT SEEDING MIXTURES

SPECIES	SEEDING RATE		SUITABLE pH	SITE SUITABILITY*		
	LBS/ ACRE	LBS/ 1,000 SF		DROUGHTY	WELL DRAINED	WET
LEVEL AND SLOPING, OPEN AREAS						
1. TALL FESCUE	35	.8	5.5-8.3	2	1	2
2. TALL FESCUE	25	.6	5.5-8.3		1	
RED CLOVER	5	.12				
3. KENTUCKY BLUEGRASS	15	.4	5.8-7.5	2	1	
CREEPING RED FESCUE	15	.4				
STEEP BANKS AND CUTS						
4. TALL FESCUE	15	.4	5.8-7.5	2	1	2
KENTUCKY BLUEGRASS	25	.6				
5. TALL FESCUE	35	.8	5.5-8.3	2	1	
EMERALD CROWNVETCH**	10	.25				
LAWNS AND HIGH MAINTENANCE AREAS						
6. KENTUCKY BLUEGRASS	40	.9	5.8-7.5	2	1	
CREEPING RED FESCUE	40	.9				
7. PERENNIAL RYEGRASS	170	4.0	5.0-7.5		1	
(TURF TYPE)						
8. TALL FESCUE	170	4.0	5.5-8.3	2	1	2

SEEDED PREPARATION

APPLY LIME TO RAISE THE pH TO THE LEVEL NEEDED FOR SPECIES BEING SEEDED. APPLY 23 POUNDS OF 12-12-12 ANALYSIS FERTILIZER (OR EQUIVALENT) PER 1000 SF (APPROXIMATELY 1000 POUNDS PER ACRE) OR FERTILIZE ACCORDING TO TEST APPLICATION OF 150 LBS. OF AMMONIUM NITRATE ON AREAS LOW IN ORGANIC MATTER AND FERTILITY WILL GREATLY ENHANCE VEGETATIVE GROWTH.

WORK THE FERTILIZER AND LIME INTO THE SOIL TO A DEPTH OF 2-3 INCHES WITH A HARROW, DISK OR RAKE OPERATED ACROSS THE SLOPE AS MUCH AS POSSIBLE.

DO NOT USE PHOSPHOROUS CONTAINING FERTILIZERS (12-12-12) UNLES SOIL TEST SHOW A DEFICIENCY IN PHOSPHORUS.

SEEDING

SELECT A SEED MIXTURE BASED ON PROJECTED USE OF THE AREA (SEE PERMANENT SEED MIXTURE CHART), WHILE CONSIDERING BEST SEEDING DATES. IF PERMANENT SEEDING IS NOT PERMITTED USE TEMPORARY SEEDING UNTIL PERMANENT SEEDING CAN BE APPLIED. IF TOLERANCES ARE A PROBLEM, SUCH AS SALT TOLERANCE OF SEEDINGS ADJACENT TO STREETS AND HIGHWAYS, SEE SEED TOLERANCE CHART.

9 SEASONAL SOIL PROTECTION CHART
SCALE: NONE

krM Architecture+

A&F ENGINEERING Transportation & Site Engineering

RDC

kbso CONSULTING

HB Lynch, Harrison & Brumleve, Inc.

REVISIONS
1 ADDENDUM #1 07.29.24

07.12.24
HAMILTON SOUTHEASTERN SCHOOLs
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd, Fishers, IN 46037
CONSTRUCTION DOCUMENTS

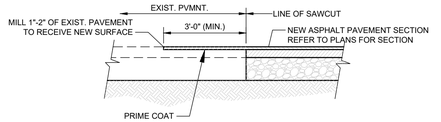
SET TO BE PRINTED IN COLOR

KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

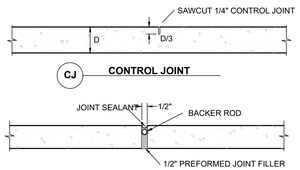
CONSTRUCTION DOCUMENTS 07.12.24
krM JOB NO. 23055
DRAWN BY A&F

DRAWING NAME
SWPPP PLAN (DETAILS)

DRAWING NO.
C403

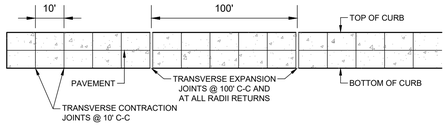


1 NEW PAVEMENT TO EXISTING PAVEMENT DETAIL
SCALE: NONE

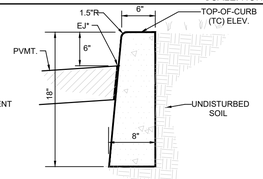


NOTE: PROVIDE WHERE SHOWN ON PLANS AND WHERE PAVEMENT ABUTS A VERTICAL SURFACE, BUILDING FOUNDATION, EXISTING OR PROPOSED PAVEMENTS, CURBS AND WALKS.

2 CONCRETE JOINT DETAILS
SCALE: NONE

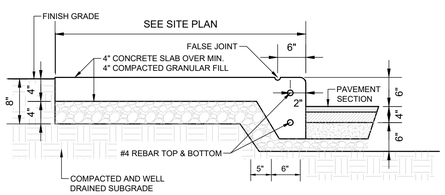


3 CURB JOINT DETAIL
SCALE: NONE



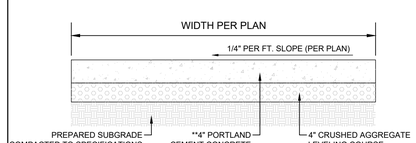
* 1/2" EXPANSION JOINT REQ'D WHERE CURB ABUTS CONCRETE WALK OR PAVEMENT

4 CONCRETE CURB
SCALE: NONE



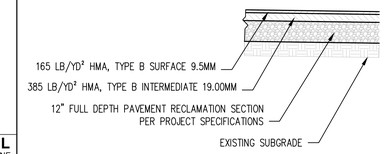
NOTE: EXPANSION JOINTS SHALL BE PLACED EVERY 25' WITH CONTROL JOINTS EVERY 5' IN BETWEEN. THE EXPANSION JOINTS SHALL BE FILLED WITH SEALANT.

5 COMBINED WALK and CURB DETAIL
SCALE: NONE

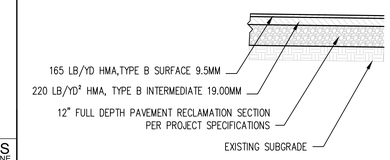


** 4" OF 4000 P.S.I. CONCRETE ON PREPARED SUB BASE AND SUBGRADE. PROVIDE SCORED JOINTS AS SHOWN ON SITE PLAN OR AT INTERVALS NOT TO EXCEED THE WIDTH OF THE WALK. PROVIDE 1/2" EXPANSION JOINTS EVERY 50' MINIMUM AND WHERE SIDEWALK ABUTTS CONCRETE PAVEMENT, CURBS, AND VERTICAL SURFACES SUCH AS WALLS. MEDIUM BROOM FINISH TO BE APPLIED IN TRANSVERSE DIRECTION. EXPANSION JOINTS SHALL BE SEALED WITH A BACKER ROD AND SILICON JOINT SEALER.

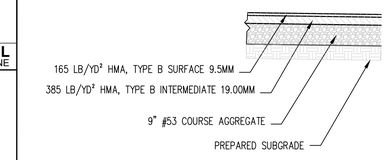
6 CONCRETE WALK
SCALE: NONE



7 FULL DEPTH PAVEMENT RECLAMATION ("FDR") TYPICAL HEAVY DUTY SECTION
SCALE: NONE



8 FULL DEPTH PAVEMENT RECLAMATION ("FDR") TYPICAL STANDARD SECTION
SCALE: NONE



9 FULL DEPTH PAVEMENT REPLACEMENT TYPICAL HEAVY DUTY SECTION
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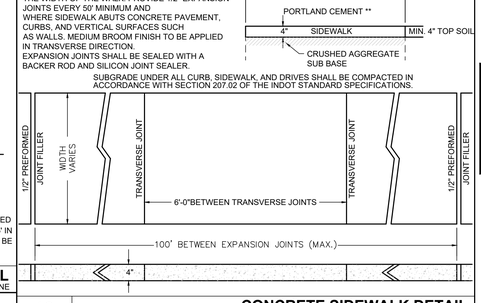
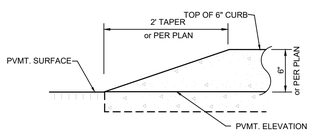
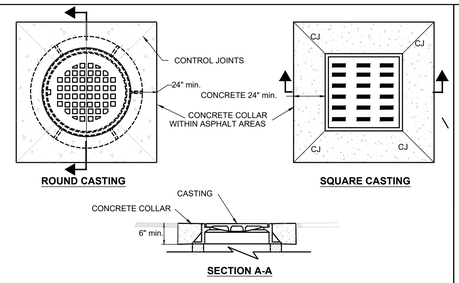


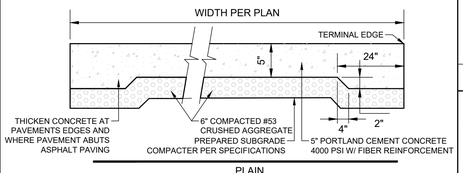
10 CONCRETE SIDEWALK DETAIL
SCALE: NONE



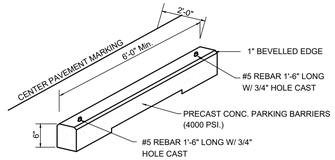
11 2-FOOT CURB TAPER OR END TRANSITION
SCALE: NONE



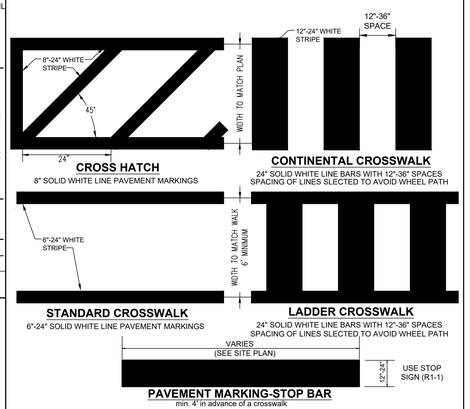
12 CONCRETE COLLAR FOR CASTINGS WITHIN ASPH.
SCALE: NONE



13 ADA PARKING CONCRETE PAVEMENT REPLACEMENT
SCALE: NONE

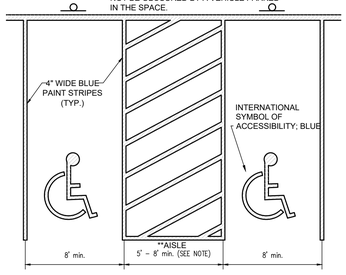


14 CONCRETE WHEEL STOP
SCALE: NONE



15 CROSSHATCH & CROSSWALK STRIPING DETAILS
SCALE: NONE

ACCESSIBLE PARKING SPACES SHALL BE IDENTIFIED BY A SIGN SHOWING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH ANSI 4.28.8. SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.



**5'-0" MIN. AISLE FOR REGULAR SPACE
**8'-0" MIN. AISLE FOR VAN ACCESSIBLE SPACE
SEE SITE PLAN FOR ACTUAL DIMENSIONS
NOTE: ONE IN EIGHT ACCESSIBLE SPACES SHALL BE VAN ACCESSIBLE, BUT NOT LESS THAN ONE.

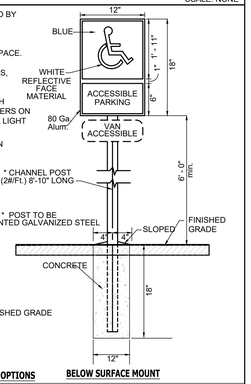
16 ACCESSIBLE PARKING SPACE
SCALE: NONE

ACCESSIBLE PARKING SPACES SHALL BE IDENTIFIED BY A SIGN SHOWING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH ANSI 4.28.8. SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.

ANSI 4.28.5 FINISH AND CONTRAST THE CHARACTERS, SYMBOLS AND BACKGROUND OF SIGN SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

SPACES COMPLYING WITH 4.1.2(5)(b) SHALL HAVE AN ADDITIONAL SIGN "VAN-ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY.

NOTE: ONE IN EIGHT ACCESSIBLE SPACES SHALL BE VAN ACCESSIBLE, BUT NOT LESS THAN ONE.



17 ACCESSIBLE PARKING SIGN DETAIL
SCALE: NONE

krM Architecture+
A&F ENGINEERING Transportation & Site Engineering
RQC
kbso CONSULTING
HHB Lynch, Harrison & Brumleve, Inc.

REVISIONS
⚠1 ADDENDUM #1 07.29.24

07.12.24
HAMILTON SOUTHEASTERN SCHOOLs
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd. Fishers, IN 46037
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KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

Karen Collins

CONSTRUCTION DOCUMENTS
07.12.24
krM JOB NO.
23055
DRAWN BY
A&F

DRAWING NAME
SITE DETAILS

⚠1
DRAWING NO.
C901

CITY STANDARDS APPLY TO PUBLIC PROPERTY & PRIVATE PROPERTY

FISHERS
EST. 1872

STANDARD CONSTRUCTION DETAILS

AMENDED JANUARY 2022

DIRECTIONS FOR USE

1) Applicable sheets from the City Standards shall be attached to the construction drawings and shall be considered part thereto. Individual City Standards that do not apply may be crossed out by design engineer by placing a single large X over the detail. Minor reference notations may be placed adjacent to individual standard titles for coordination. However, the standards themselves shall not be modified in any way.

2) Details prepared by outside sources shall not be included in the construction drawings when said details are covered by City Standards.

3) Details prepared by outside sources covering work which is not covered by City Standards are the sole responsibility of the design engineer and shall be placed on sheets other than the City Standard sheets.

4) Failure to properly execute the above directions for use will not affect the applicability nor the enforcement of the City Standards.

5) City of Fishers shall be contacted when required by calling the Director of Engineering.

6) City Standards shall be used in conjunction with the Transportation Plan and Construction Specifications.

7) The use of INDOT refers to Indiana Department of Transportation Standard Drawings and Specifications (Current Version).

NOTES

1) A City of Fishers Right-of-Way Activity Permit is required for utilities crossing existing public right-of-way or encroaching into right-of-way pavement.

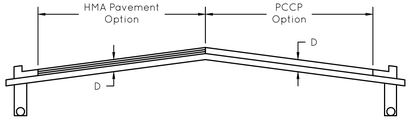
2) Utility work within existing public right-of-way or within 5 feet of existing right-of-way pavement requires removable flowable fill as backfill.

INDEX

1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS STANDARD CONSTRUCTION DETAILS	R011822A (RESOLUTION NO.)	SHEET
TITLE SHEET	1/18/2022 (DATE OF ADOPTION)	1 of 29



Notes:

1) Asphalt pavement shall be in accordance with the most current INDOT Standard Specifications Section 401. For all local (non-Federal Aid) projects, all HMA acceptance and testing requirements shall be in accordance with Section 402. Patching and Widening shall be in accordance with Section 304.
2) PCCP pavement shall be in accordance with the most current INDOT Standard Specifications Section 502.
3) Any other pavement design will need Director of Engineering approval.
4) Where existing roads have SMA surface pavement, material is to be matched.

PRIMARY ARTERIAL AND COLLECTOR

HMA Pavement Option

D = 1.5" - 165lb/syd QC/QA-HMA, 2, 64, Surface, 9.5mm, on
2.5" - 275lb/syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm, on
3.75" - 413lb/syd QC/QA-HMA, 2, 64, Base, 25.0mm, on
3" - 300lb/syd QC/QA-HMA, 3, 76, Intermediate, Base, 19.0mm, on
6" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, Type IBC

PCCP Option (Requires Engineering Approval)

D = 13" - PCCP, on
3" - Compacted Aggregate, No. 8, on
3" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, Type IBC

Roundabout

D = 2" - 220lb/syd QC/QA-HMA, 2, 64, Surface, 9.5mm, on
2.5" - 275lb/syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm, on
3.5" - 385lb/syd QC/QA-HMA, 2, 64, Base, 25.0mm, on
3" - 300lb/syd QC/QA-HMA, 3, 76, Intermediate, Base, 19.0mm, on
6" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, Type IBC

SECONDARY ARTERIAL

HMA Pavement Option

D = 1.5" - 165lb/syd QC/QA-HMA, 2, 64, Surface, 9.5mm, on
2.5" - 275lb/syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm, on
3.75" - 413lb/syd QC/QA-HMA, 2, 64, Base, 25.0mm, on
9" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, Type IBC

PCCP Option (Requires Engineering Approval)

D = 13" - PCCP, on
3" - Compacted Aggregate, No. 8, on
3" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, Type IBC

Roundabout

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3.5" - 385lb/syd QC/QA-HMA, 2, 64, Base, 25.0mm, on
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COLLECTOR

HMA Pavement Option

D = 1.5" - 165lb/syd QC/QA-HMA, 2, 64, Surface, 9.5mm, on
2.5" - 275lb/syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm, on
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8" - Compacted Aggregate, No. 53, on
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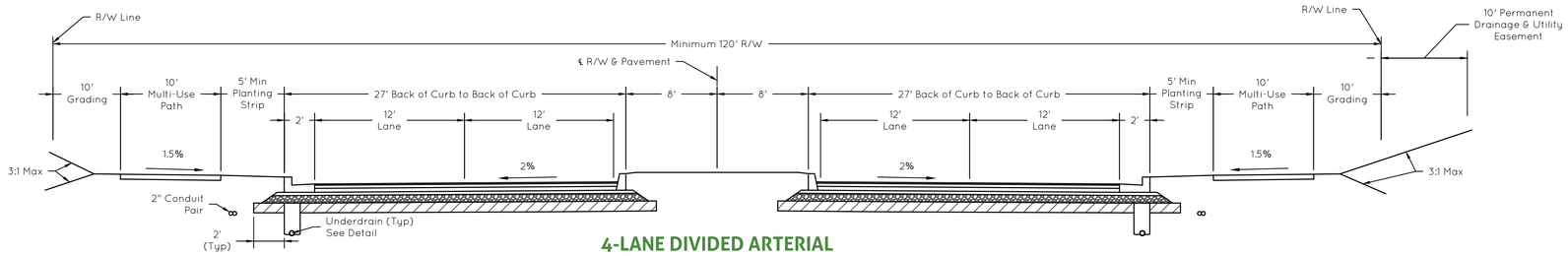
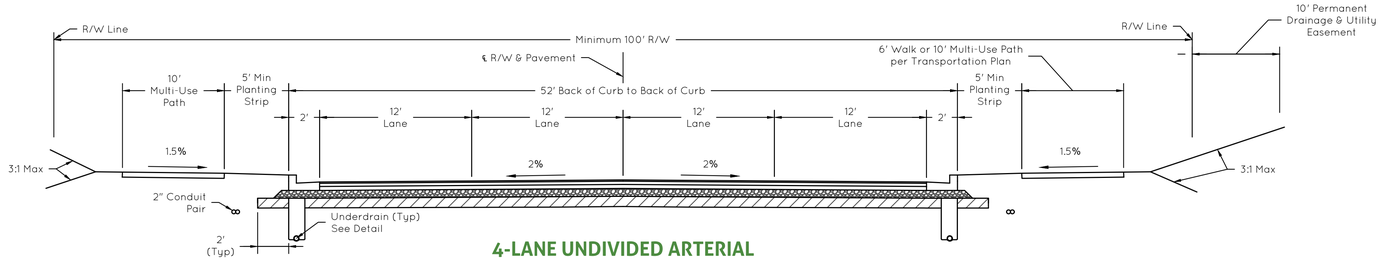
8" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, Type IBC



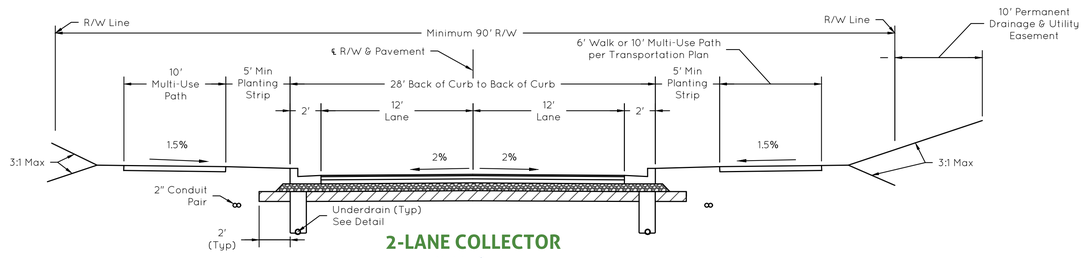
4-LANE DIVIDED ARTERIAL

Not to Scale



4-LANE UNDIVIDED ARTERIAL

Not to Scale



2-LANE COLLECTOR

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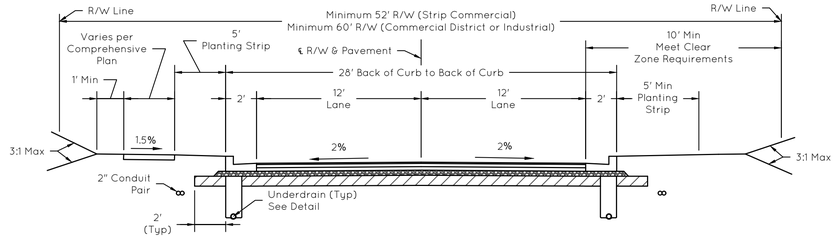

COMMERCIAL OR INDUSTRIAL COLLECTOR

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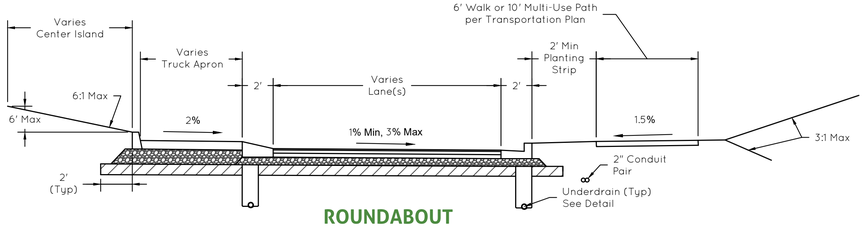


ROUNDABOUT

Not to Scale

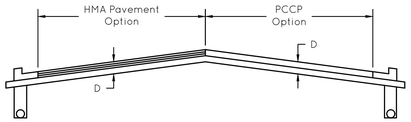
1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

ARTERIAL AND COLLECTOR TYPICAL PAVEMENT AND ROADWAY SECTIONS

SHEET 2 of 29



Notes:

1) Asphalt pavement shall be in accordance with the most current INDOT Standard Specifications Section 401. For all local (non-Federal Aid) projects, all HMA acceptance and testing requirements shall be in accordance with Section 402. Patching and Widening shall be in accordance with Section 304.
2) PCCP pavement shall be in accordance with the most current INDOT Standard Specifications Section 502.
3) Any other pavement design will need Director of Engineering approval

LOCAL STREET

HMA Pavement Option

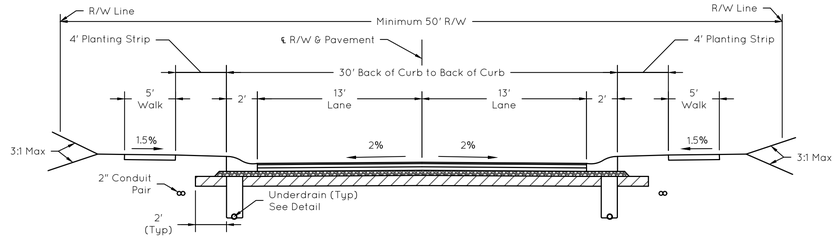
D = 1.5" - 165lb/syd QC/QA-HMA, 2, 64, Surface, 9.5mm, on
2.5" - 275lb/syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm, on
3.75" - 413lb/syd QC/QA-HMA, 2, 64, Base, 19.0mm, on
6" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, Type IBC

PCCP Option (Requires Engineering Approval)

D = 13" - PCCP, on
3" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, Type IBC

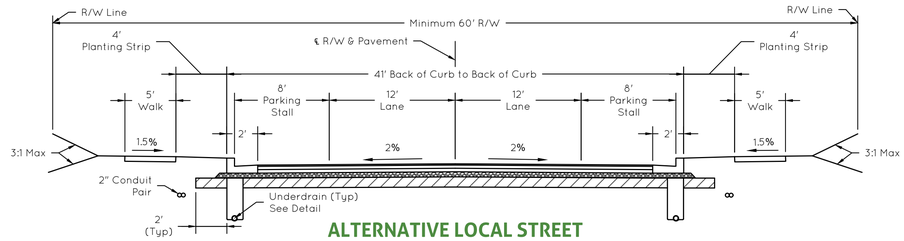
Minor Subdivision

D = 1.5" - 165lb/syd QC/QA-HMA, 2, 64, Surface, 9.5mm, on
3.5" - 385lb/syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm, on
12" - Compacted Aggregate, No. 53, on
14" - INDOT Subgrade Treatment, Type IBC



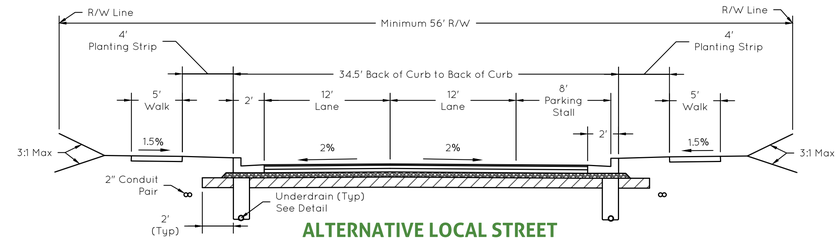
LOCAL STREET

Not to Scale



ALTERNATIVE LOCAL STREET
TRADITIONAL SECTION WITH 2 PARKING LANES

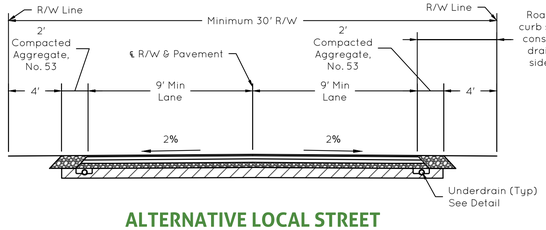
Not to Scale



ALTERNATIVE LOCAL STREET
TRADITIONAL SECTION WITH 1 PARKING LANE

Not to Scale

MODIFICATIONS TO THESE SECTIONS MUST BE APPROVED BY THE DIRECTOR OF ENGINEERING



Road sections without curb shall require special consideration for storm drainage, underdrain, side ditch depth, etc.

ALTERNATIVE LOCAL STREET
MINOR SUBDIVISION

Not to Scale

1/18/2022

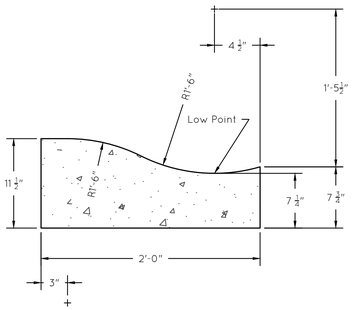
JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

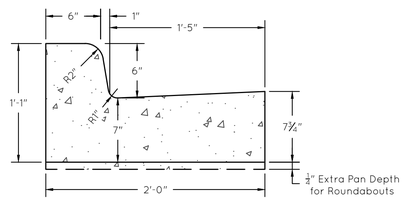
LOCAL STREET
TYPICAL PAVEMENT AND
ROADWAY SECTIONS

SHEET

3 of 29

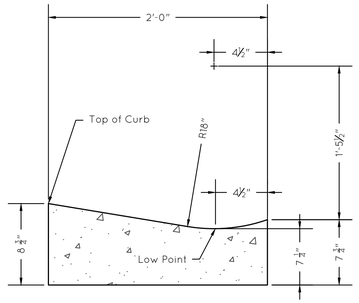


CONCRETE ROLL CURB
Not to Scale

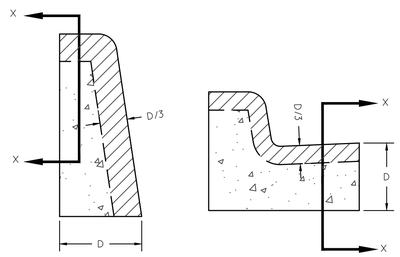


Note:
1) Provide reverse pitch curb & gutter on center islands when curb inlets are not provided for drainage and when natural flow is away from curb.

CONCRETE COMBINED CURB & GUTTER
Not to Scale

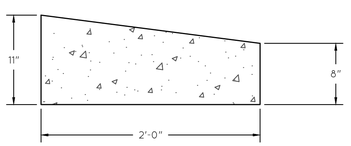


CONCRETE VALLEY GUTTER
Not to Scale

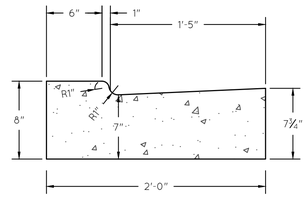


Note:
1) Contraction joints for concrete curbs shall be sawed at 10-ft spacing. Spacing shall be 5-ft on curves.

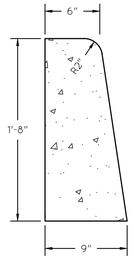
CONTRACTION JOINTS - CONCRETE CURB
Not to Scale



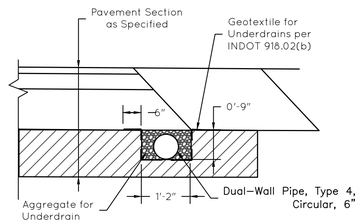
CONCRETE SLOPED CURB - FOR ROUNDABOUTS
Not to Scale



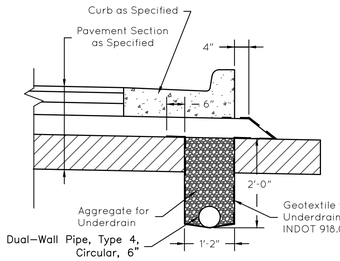
CONCRETE COMBINED CURB & GUTTER - DEPRESSED
Not to Scale



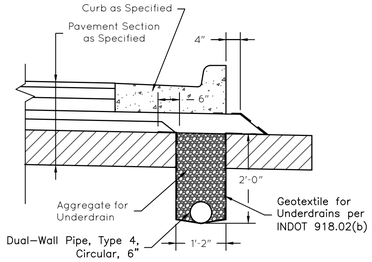
CONCRETE BARRIER CURB
Not to Scale



LOCAL STREET UNDERDRAIN
Not to Scale



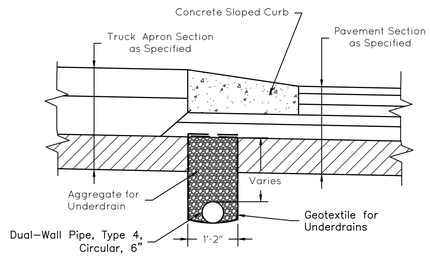
Underdrain without HMA Drainage Layer



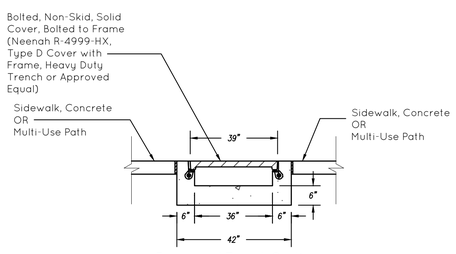
Underdrain with HMA Drainage Layer

Note:
1) No connections shall be made to curb underdrain (downspouts, sump pumps, yard drains, etc).

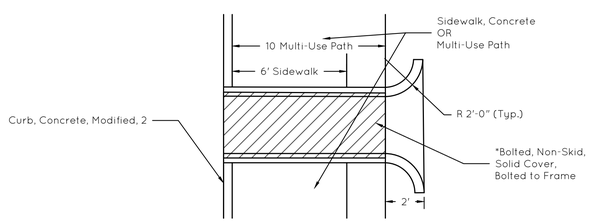
CURB UNDERDRAIN
Not to Scale



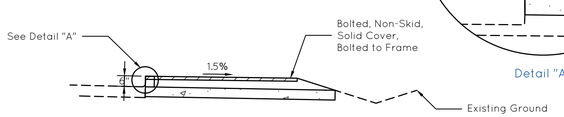
UNDERDRAIN AT ROUNDABOUTS (AS NEEDED)
Not to Scale



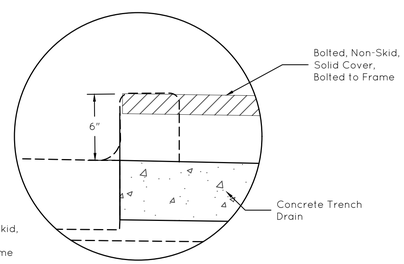
Frame and Trench Section



Plan View



Walk or Path Section



Detail "A"

TRENCH DRAIN DETAIL W/ SIDEWALK OR MULTI-USE PATH
Not to Scale

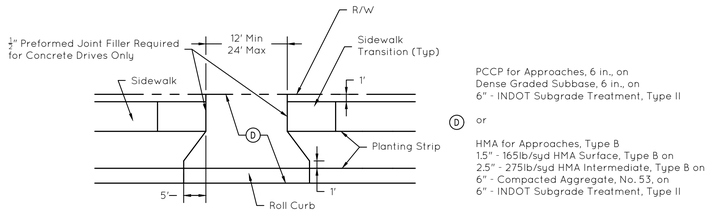
1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

CURB AND UNDERDRAIN DETAILS

SHEET 4 of 29



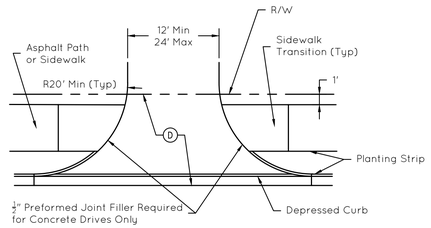
D or

PCCP for Approaches, 6 in., on Dense Graded Subbase, 6 in., on 6" - INDOT Subgrade Treatment, Type II

or

HMA for Approaches, Type B 1.5" - 165lb/syd HMA Surface, Type B on 2.5" - 275lb/syd HMA Intermediate, Type B on 6" - Compacted Aggregate, No. 53, on 6" - INDOT Subgrade Treatment, Type II

Residential Driveway on Local Road



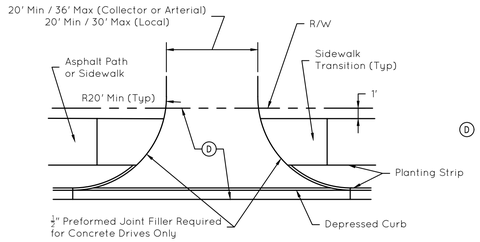
D or

PCCP for Approaches, 6 in., on Dense Graded Subbase, 6 in., on 6" - INDOT Subgrade Treatment, Type II

or

HMA for Approaches, Type B 1.5" - 165lb/syd HMA Surface, Type B on 2.5" - 275lb/syd HMA Intermediate, Type B on 6" - Compacted Aggregate, No. 53, on 6" - INDOT Subgrade Treatment, Type II

Residential Driveway on Collector, Secondary, or Primary Arterial



D or

PCCP for Approaches, 9 in., on Dense Graded Subbase, 6 in., on Geogrid, Type 1B, on 6" - INDOT Subgrade Treatment, Type II

or

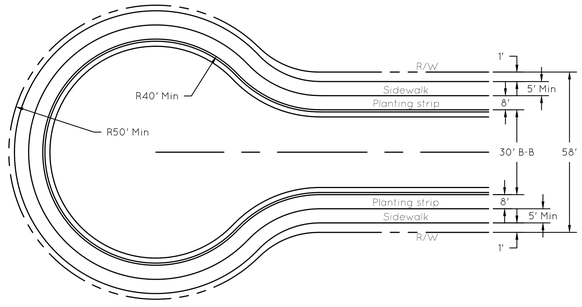
HMA for Approaches, Type B 1.5" - 165lb/syd HMA Surface, Type B on 2.5" - 275lb/syd HMA Intermediate, Type B on 6" - 660lb/syd HMA Base, Type B on 6" - INDOT Subgrade Treatment, Type II on Geogrid, Type 1B

Commercial Driveway

Notes:
1) Details do not reflect additional road improvements (i.e., turn lanes and tapers).
2) Decorative driveway aprons are not allowed except as approved by the Director of Engineering.
3) Maximum driveway slope outside of right-of-way shall be 12% for minimum 10 feet beyond R/W line.
4) Adjoining asphalt shall have perpendicular edges.
5) Asphalt shall not be used for residential driveways on Collector, Secondary, or Primary Arterials.
6) Asphalt must match adjacent mainline cross section for commercial approaches.

DRIVEWAY DETAILS

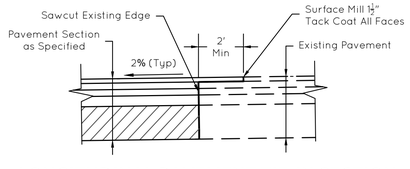
Not to Scale



Note:
1) 'Eyebrows' are not allowed

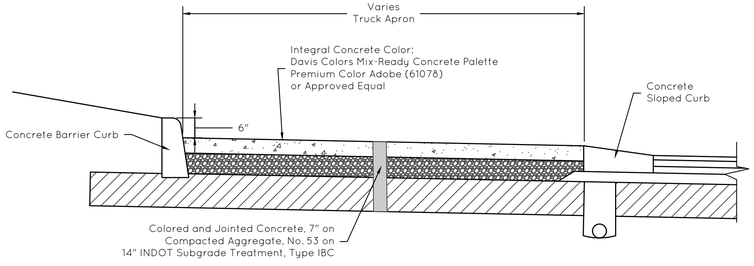
CUL-DE-SAC

Not to Scale



LONGITUDINAL PAVEMENT TIE-IN SECTION

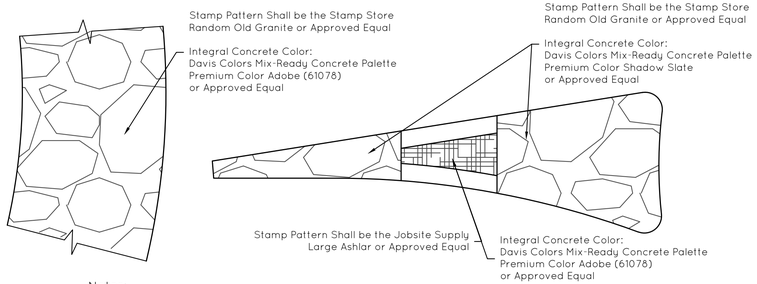
Not to Scale



Note:
1) Type D-1 Contraction Joints not required unless otherwise directed by Dept. of Engineering.

CONCRETE TRUCK APRON DETAIL

Not to Scale



Notes:
1) Pattern shall be submitted to ENGINEER prior to construction.
2) A 4' x 4' mock-up is required for ENGINEER approval.
3) Concrete shall cure for a minimum of four days prior to applying sealant.

ROUNDABOUT TRUCK APRON AND SPLITTER ISLAND STAMP DETAIL

Not to Scale

1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

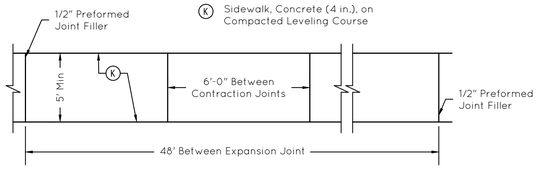
CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

DRIVEWAY, CUL-DE-SAC, AND MISC. TRANSPORTATION DETAILS

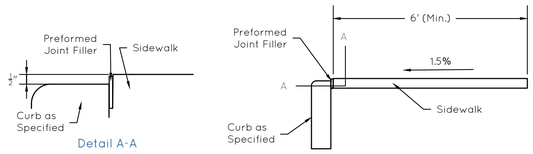
SHEET 5 of 29

NOTES

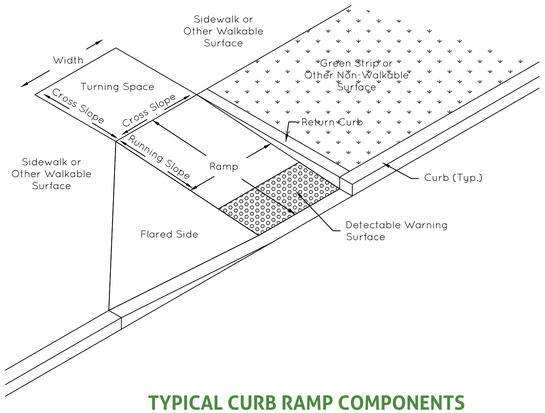
1) Curb ramps and sidewalks shall be constructed in accordance with INDOT Standard Specifications, Section 604.
2) All sidewalks and curb ramps within Fishers Right-of-Way shall be ADA compliant.
3) Detectable Warning Surfaces shall be cast iron type and shall be powder coated black.
4) Detectable Warning Surfaces shall not be installed at commercial or private driveways unless traffic warrants or approved by City Engineer.
5) Transverse joints shall be cut with a jointer having a radius of 1/2-inch of spacing.
6) Decorative sidewalks are not permitted unless prior approval has been given by the Director of Engineering.
7) When sidewalk is built in conjunction with concrete pavement, expansion and contraction joints should be placed at the same location as the pavement slab. The curb and gutter shall be tied to the pavement by 1/2-in round preformed epoxy coated bars at approximate 3-foot intervals. If concrete pavement is not being built at the same time the curb is constructed, expansion joints should be placed at the ends of all returns and at intervals not to exceed 100 feet. Contraction joints should be installed at 20-foot intervals.
8) Curb inlets shall not be allowed within 2 feet of curb ramps or at the apex of corner radii.



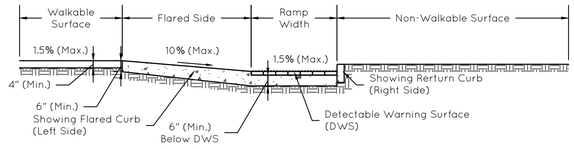
SIDEWALK DETAIL
Not to Scale



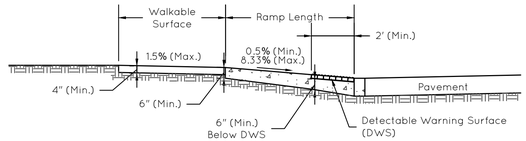
SIDEWALK ADJACENT TO CURB
Not to Scale



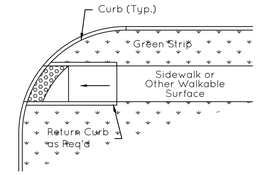
TYPICAL CURB RAMP COMPONENTS
Not to Scale



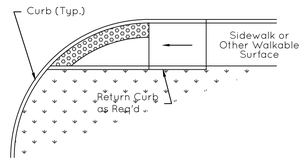
TYPICAL CURB RAMP CROSS SLOPE SECTION
Not to Scale



TYPICAL CURB RAMP RUNNING SLOPE SECTION
Not to Scale

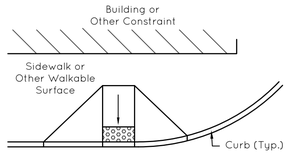


Ramp with Buffer

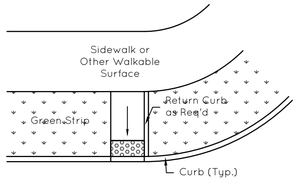


Ramp Adjacent to Curb

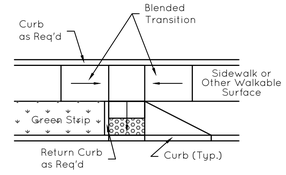
ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP EXAMPLES
Not to Scale



Ramp Adjacent to Walkable Surface

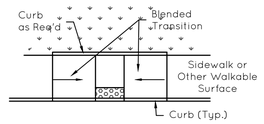


Ramp Adjacent to Non-Walkable Surface

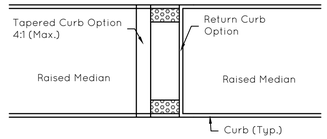


Ramp with Grade Tiering

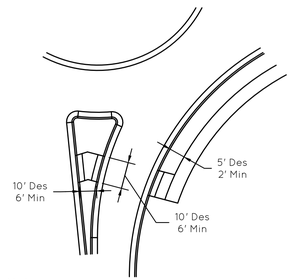
PERPENDICULAR CURB RAMP EXAMPLES
Not to Scale



PARALLEL CURB RAMP EXAMPLE
Not to Scale

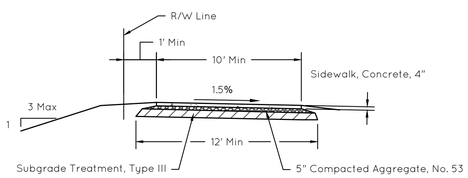


MEDIAN CURB RAMP EXAMPLE
Not to Scale

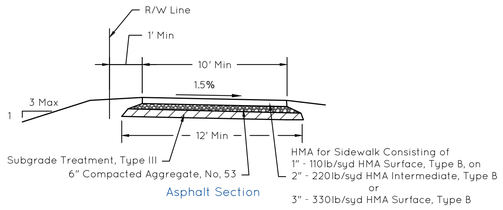


Note:
1) If 6' minimum cannot be achieved at the splitter island, crosswalk shall be of passthrough type without angular deflection.

ROUNDABOUT SIDEWALK AND CURB RAMP PLACEMENT
Not to Scale

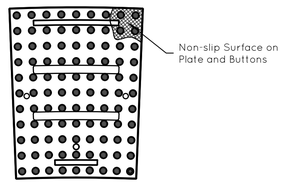


Concrete Section (Requires Engineering Approval)

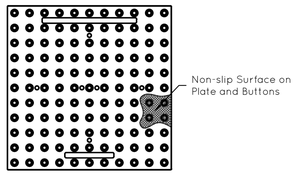


Asphalt Section

PERIMETER PATH
Not to Scale



Curved Panel



Square Panel

Note:
1) Detectable warning surfaces by East Jordan Iron Works, Neenah, or approved equal shall be cast iron, have a heavy duty load rating, and be powder coated black.
2) Detectable warning surfaces shall be ADA compliant.

DETECTABLE WARNING SURFACE
Not to Scale

1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

SIDEWALK, CURB RAMP, AND PERIMETER PATH DETAILS

SHEET 6 of 29

PRINCIPLES AND OBJECTIVES

Several overarching principles should guide the development of all roundabout designs. Achieving these principles should be the goal of any roundabout design:

- Provide slow entry speeds and consistent speeds through the roundabout by using deflection.
- Provide the appropriate number of lanes and lane assignment to achieve adequate capacity, lane volume balance, and lane continuity.
- Provide smooth channelization that is intuitive to drivers and results in vehicles naturally using the intended lanes.
- Provide adequate accommodation for the design vehicles.
- Design to meet the needs of pedestrians and cyclists.
- Provide appropriate sight distance and visibility for driver recognition of the intersection and conflicting users.

Note that some features of multi-lane roundabout design are significantly different from single-lane roundabout design, and some techniques used in single-lane roundabout design may not directly transfer to multi-lane design. Each of the principles described above affects the safety and operations of the roundabout. When developing a design, the trade-offs of safety, capacity, cost, and so on must be recognized and assessed throughout the design process.

DESIGN GUIDELINES

Submittals

All roundabout designs shall be submitted for review at the following stages of development:

1) Conceptual
   1)1) Preliminary layout
   1)2) Planned roundabout capacity analysis for construction year, 10-year, and 20-year traffic review

2) Stage 1 or 25% plans
   2)1) Refined geometrics
   2)2) Turning movement and design vehicle selection review
   2)3) Striping review

3) Stage 2 or 50% plans
   3)1) Drainage and grade review
   3)2) Roundabout sight distance review

4) Stage 3 or 75% plans
   4)1) Landscaping review
   4)2) Lighting review
   4)3) Signage review

Speed Management

The maximum allowable fastest path entry speeds shall be as indicated below unless prior approval has been given by the Department.

1) Single-lane roundabouts - 25 mph
2) Multi-lane roundabouts - 30 mph

Design Vehicle Selection

1) The WB-62 shall be the minimum design vehicle for sizing the roundabout unless prior approval has been given by the Department.
   1)1) At multi-lane approaches it shall be assumed that the WB-62 will straddle the lane line to make a through and right-turn movement.
2) At a minimum, the WB-62 shall be able to travel through a roundabout without over-tracking any curb with the exception of the truck apron roll curb unless prior approval has been given by the Department.
3) The circulatory roadway and all lanes within a multi-lane roundabout shall accommodate a city-bus, fire truck, and school bus unless prior approval has been given by the Department.

Inscribed Circle Diameter (ICD)

Unless prior approval is given by the Department, the smallest ICD used for design shall be 110 ft.

Entry Geometry and Path Alignment

1) If horizontal deflection is utilized on an approach to a roundabout it should be a 6 ft offset minimum and, ideally, 10 to 12 ft to ensure drive path is influenced.
2) Entries shall be designed such that path overlap is eliminated.

Profiles and Grades

Vertical profiles and roundabout grading should take into consideration low clearance vehicles especially on heavy truck routes.

Splitter Islands

1) Splitter islands for single-lane roundabouts should be 50 feet or greater in length and 100 feet or greater in length for multi-lane roundabouts measured from the circulatory roadway.
2) On high speed approaches (design speed of approaching roadways above 45 mph) consideration should be given for the splitter island length to be the SSD of that design speed.

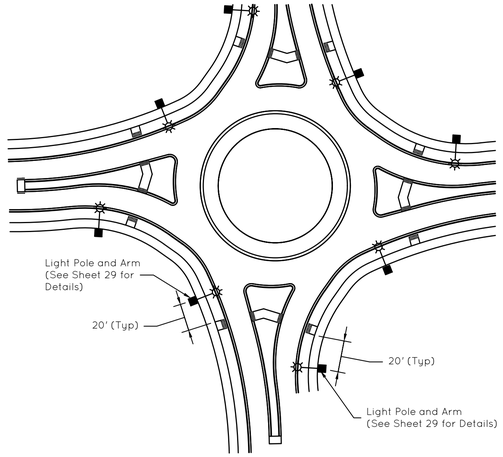
Drainage

No drainage structures shall be located within the circulatory roadway unless prior approval has been given by the Department.

Landscape

Any landscaping or object located within the center island shall be approved by the City of Fishers.

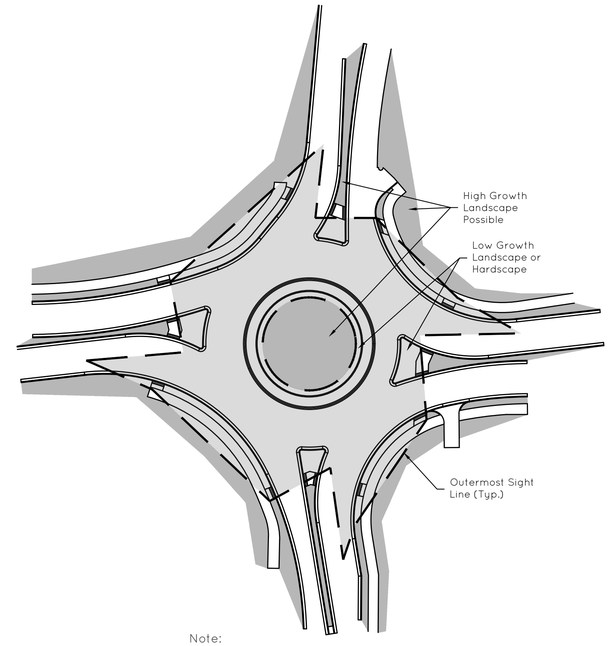
1) If no landscaping is proposed in the center island, fill should be placed at a 6:1 slope in order to provide a sight obstruction mound.
2) All splitter islands less than 8 ft in width and between the pedestrian crosswalk and circulatory roadway shall not be landscaped and shall be in stamped concrete unless prior approval has been given by the Department.
3) The minimum median width shall be 52 inches. If 52 inches cannot be achieved, then median must be stamped concrete or landscaped with typical Fishers narrow median landscape plan as provided by City during plan review.



Notes:
1) Lighting design shall be in conformance with the IES Design Guide (IES DG-19-08) and City of Fishers standards.
2) Luminaire, pole, and placement shall be coordinated for installation by Duke Energy.
3) Do not backlight pedestrians.
4) The full length of splitter islands shall be illuminated unless prior approval has been given by the Department.
5) Additional poles should be provided as required to meet appropriate photometeric results for complex geometry.

TYPICAL LIGHTING PLACEMENT

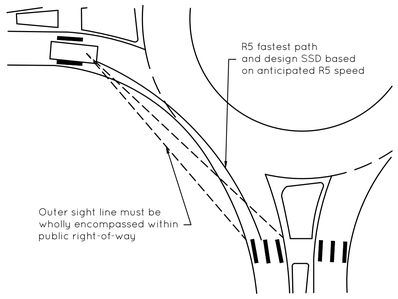
Not to Scale



Note:
1) A scalable plan sheet and CAD file shall be provided to the Dept. of Engineering upon completion of final plans.

EXAMPLE LANDSCAPE AREAS DIAGRAM

Not to Scale



Notes:
1) This detail is to provide additional guidance to designers. Designer shall not arbitrarily place vehicle at yield line or circulatory roadway edge line to check visibility.
2) All roundabout sight lines shall be checked in accordance with NCHRP 672.

STOPPING SIGHT DISTANCE (SSD) TO CROSSWALK

Not to Scale

1/18/2022

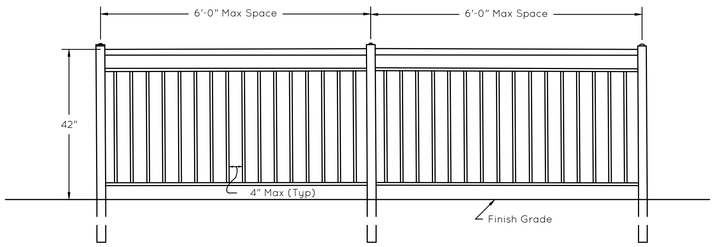
JASON M. TAYLOR
REGISTERED
No.
PE11200277
STATE OF
INDIANA
PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

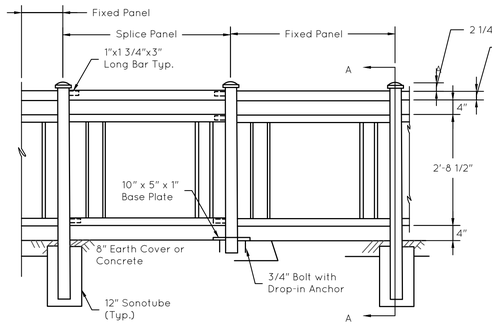
ROUNDABOUT DESIGN STANDARDS

SHEET

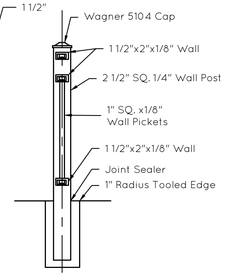
7 of 29



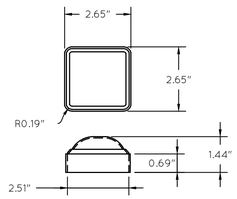
Typical Elevation Rail View



Elevation



Section A-A

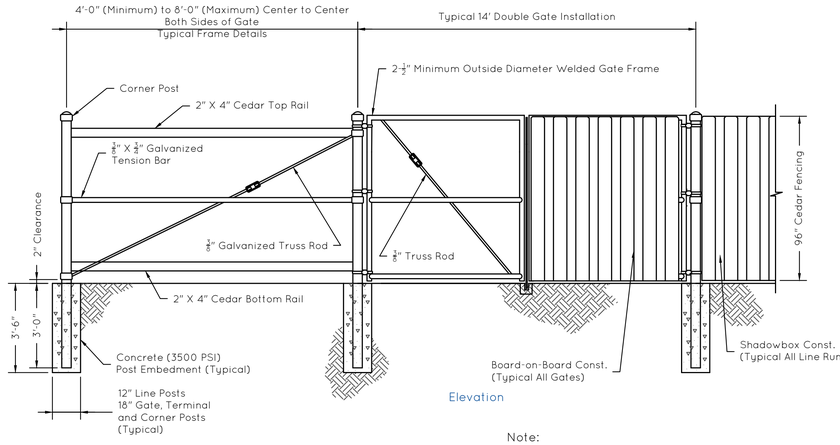


Wagner 5104 Cap

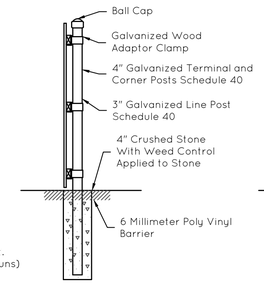
Notes:
1) All extrusions aluminum 6061-T6 or 6063-T6.
2) Pedestrian handrail shall be powder coated in accordance with ASTM D7803 and D3359. Powder coating color shall be Fishers Green (RAL 6004).
3) Fixed panel sections will consist of two to three 6' maximum post pace sections welded as an assembly.
4) Splice panel sections will consist of a loose top rail section and a welded pick panel section field assembled onto the 1" x 1 3/4" x 3" long bar supports.
5) Railing connections shall be designed per AASHTO LRFD Bridge Design Specifications (Latest Edition).
6) Footing and post embedment to be designed by the manufacturer. All concrete shall be Class "A" (3500 PSI). Posts may be anchored to precast concrete headwalls.
7) Handrail to be used in conjunction with combined walk and retaining wall detail.

PEDESTRIAN HANDRAIL

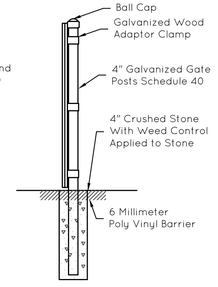
Not to Scale



Elevation



Shadowbox Section



Board-on-Board Section

Note:
1) Only for lift stations conveyed to Fishers.

CEDAR FENCE

Not to Scale

1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

CEDAR FENCE AND PEDESTIRAN HANDRAIL DETAILS

SHEET

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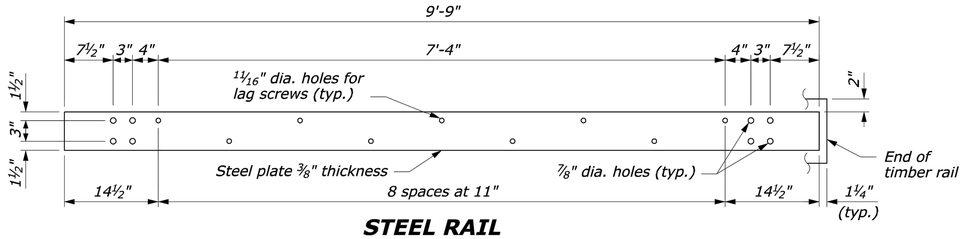
STATE	PROJECT	SHEET NUMBER

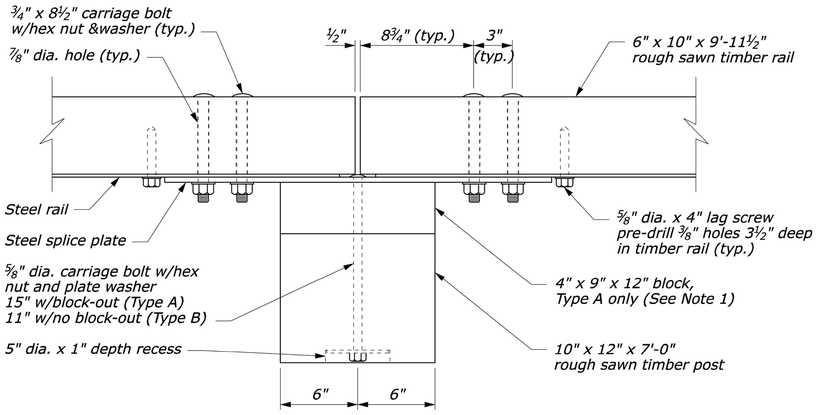


STEEL RAIL

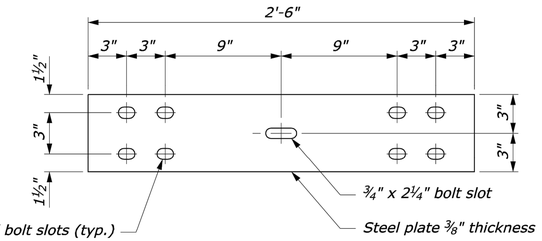
PLATE WASHER

NOTE:

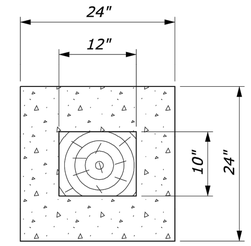
1. *Use the Type A, blocked-out, system or the Type B, non-blocked-out, system as specified in the plans.*
2. *Use weathering steel for all structural steel and fastener hardware as specified.*
3. *Place a terminal section (See Standards 617-61 and 617-62) on both approach and trailing ends of barrier installations.*

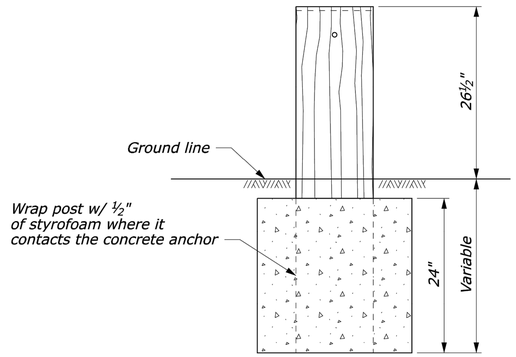


PLAN



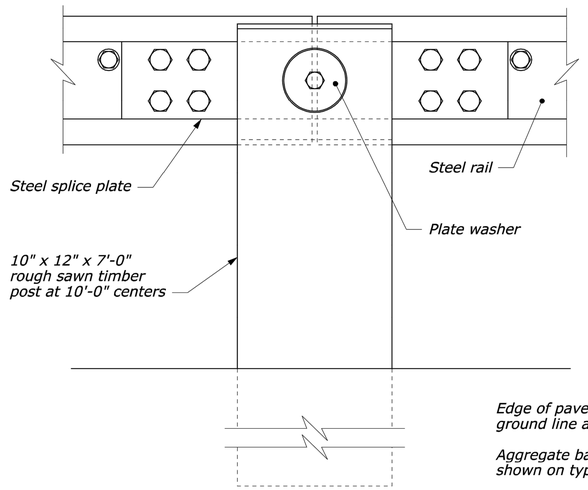
STEEL SPLICE PLATE





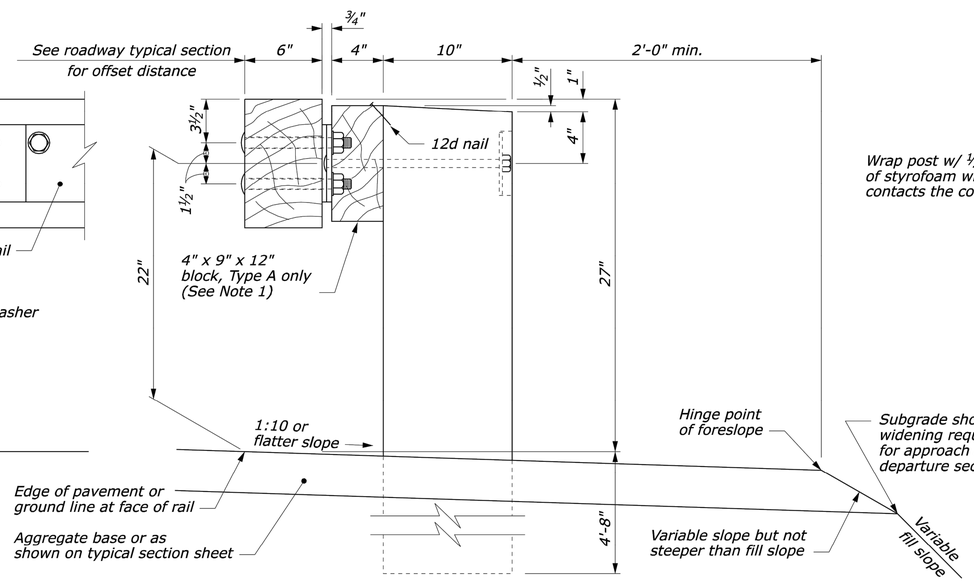
24" dia. round anchor is an acceptable alternative.
Reduced size acceptable in solid rock.

CONCRETE ANCHOR FOR SHORT GUARDRAIL POST



ELEVATION

POST CONNECTION



TYPICAL GUARDRAIL CROSS SECTION

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

U.S. CUSTOMARY STANDARD

STEEL-BACKED TIMBER GUARDRAIL
TYPE A & TYPE B

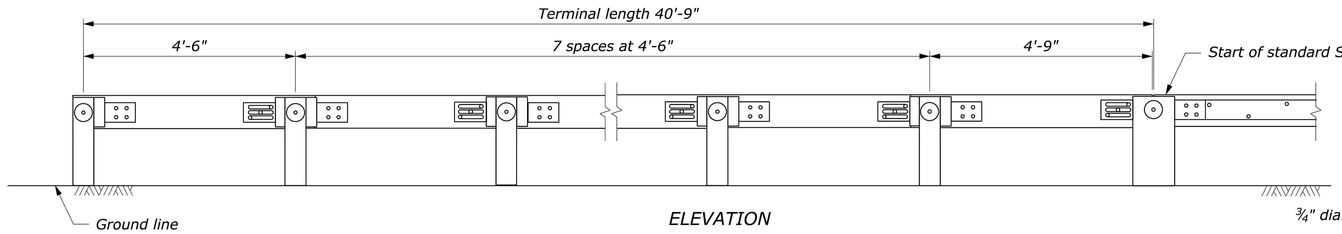
STANDARD APPROVED FOR USE 3/1990	STANDARD
REVISED: 4/1994 6/2005	617-60

1/18/2022

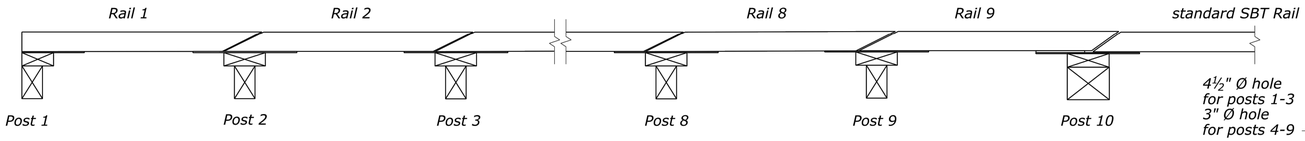
JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS STANDARD CONSTRUCTION DETAILS	SHEET
FHWA TIMBER GUARDRAIL DETAILS	9 of 29

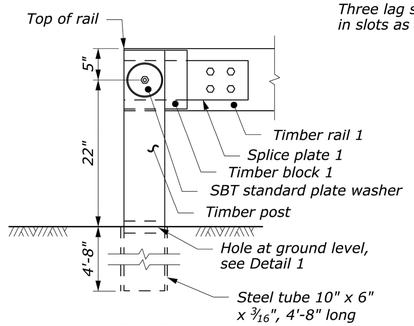
STATE	PROJECT	SHEET NUMBER



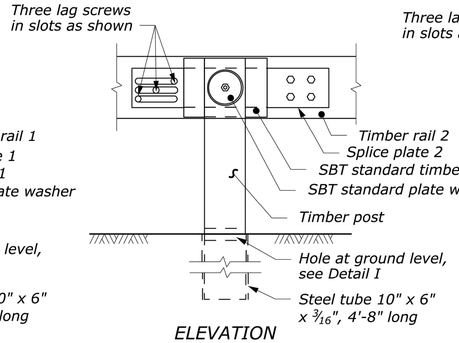
ELEVATION



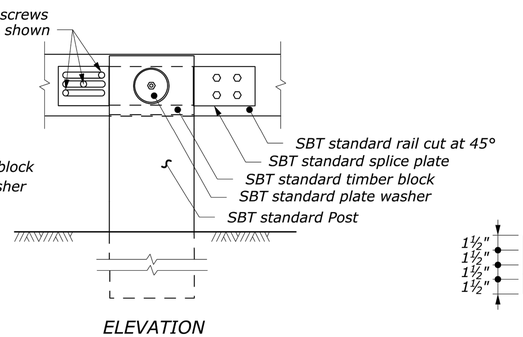
PLAN



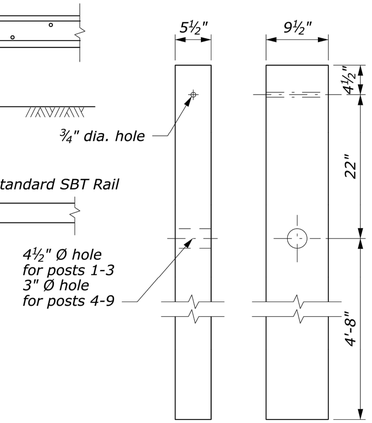
ELEVATION



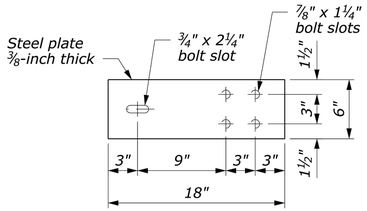
ELEVATION



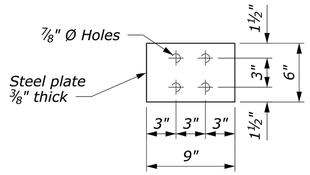
ELEVATION



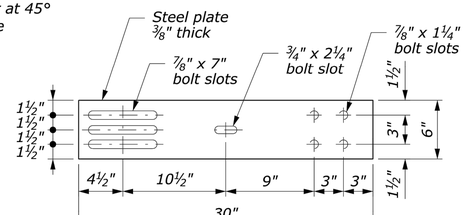
TIMBER POSTS 1 - 9
DETAIL I



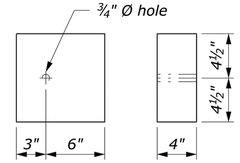
SPLICE PLATE AT POST 1
DETAIL K



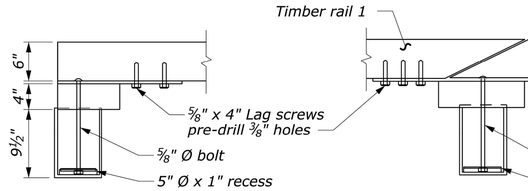
FILLER PLATE AT POST 10
DETAIL J



SPLICE PLATE AT POSTS 2 - 9
DETAIL G



TIMBER BLOCK AT POST 1
DETAIL H

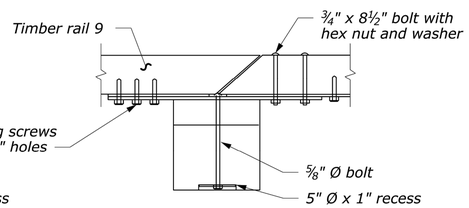


PLAN

POST/RAIL CONNECTION AT POST 1
DETAIL A

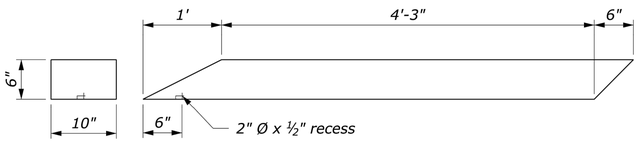
PLAN

POST/RAIL CONNECTION AT POSTS 2-9
DETAIL B

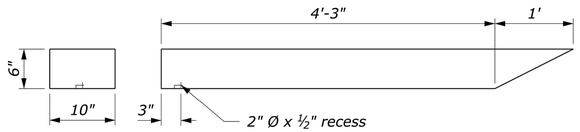


PLAN

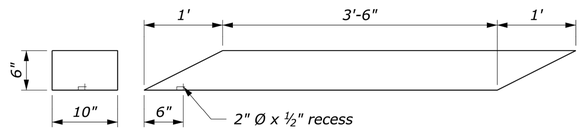
POST/RAIL CONNECTION AT POST 10
DETAIL C



TIMBER RAILS 9
DETAIL F



TIMBER RAIL 1
DETAIL D



TIMBER RAILS 2 - 8
DETAIL E

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

U.S. CUSTOMARY STANDARD

TL-2 END TERMINAL FOR STEEL-BACKED TIMBER GUARDRAIL

STANDARD APPROVED FOR USE --/----

REVISED:
DRAFT: 9/2011

STANDARD 617-69

1/18/2022

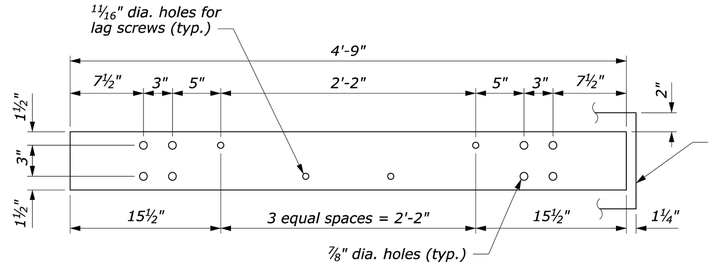
JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

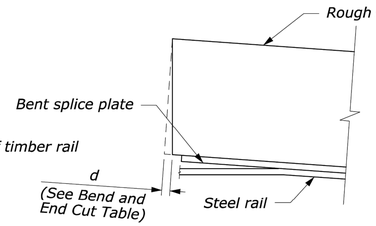
FHWA TIMBER GUARDRAIL DETAILS

SHEET 10 of 29

STATE	PROJECT	SHEET NUMBER



STEEL RAIL
6" x ⅜" x 4'-9"



DETAIL A

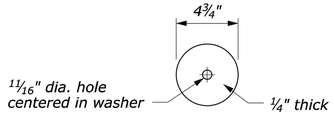
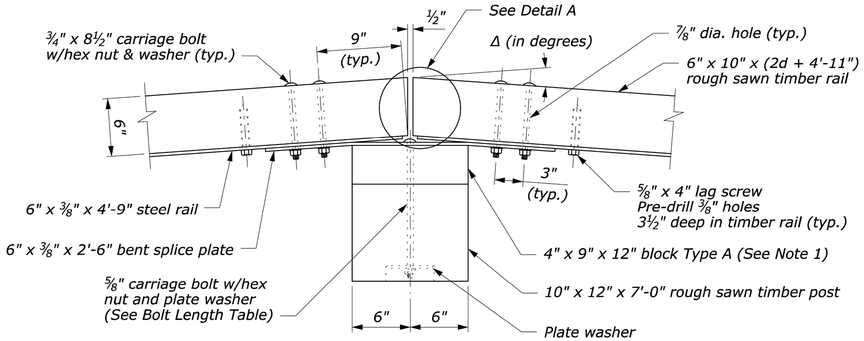


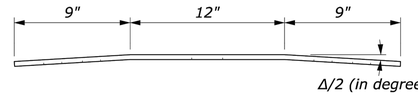
PLATE WASHER DETAIL

NOTE:

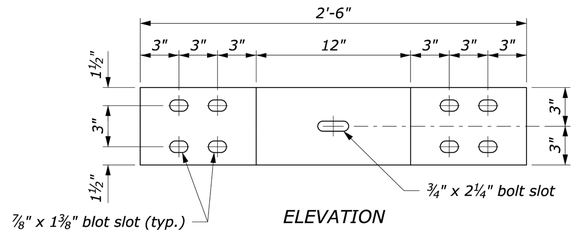
1. Use the Type A, blocked-out, system or the Type B, non-blocked-out, system as specified.
2. Use the weathering steel for all structural steel and fastener hardware.
3. Furnish shop bent splice plates. Use the minimum bend angle shown in the table below.
4. See Sheet 2 of 2 for Plan View Layout.



PLAN



PLAN

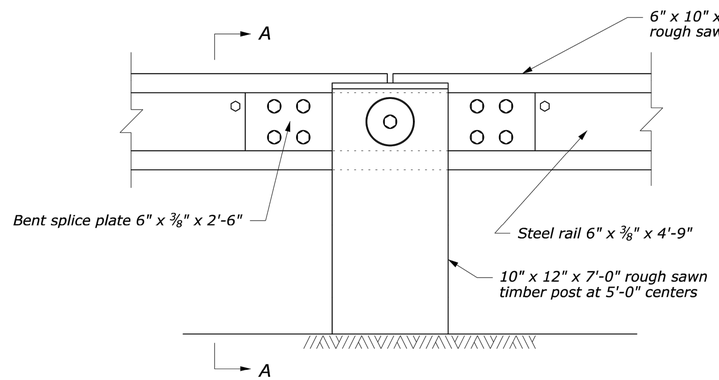


ELEVATION

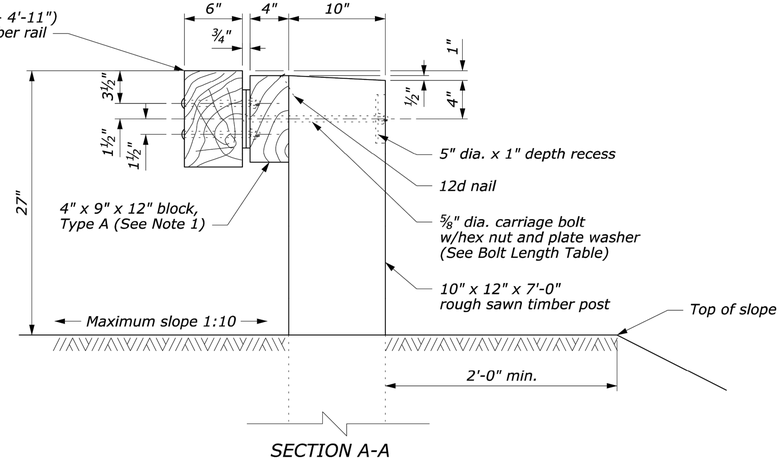
BENT SPLICE PLATE
6" x ⅜" x 2'-6"

BEND AND END CUT TABLE		
Radius R ft	Δ/2 degrees	d in
20	7.18	¾
25	5.74	⅝
30	4.78	½
35	4.10	7/16
40	3.58	⅜
45	3.18	⅓
50	2.87	5/16
55	2.61	¼
60	2.39	¼
65	2.20	¼
70	2.05	¼
over 70	flat	0

BOLT LENGTH TABLE	
Type A (Block-out)	Type B (No Block-out)
15"	11"



ELEVATION



SECTION A-A

POST CONNECTION

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

U.S. CUSTOMARY STANDARD

STEEL-BACKED TIMBER GUARDRAIL AROUND CIRCULAR CURVES 70 FOOT RADIUS AND BELOW

Sheet 1 of 2

STANDARD APPROVED FOR USE 6/2005

REVISED:

STANDARD 617-63

1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

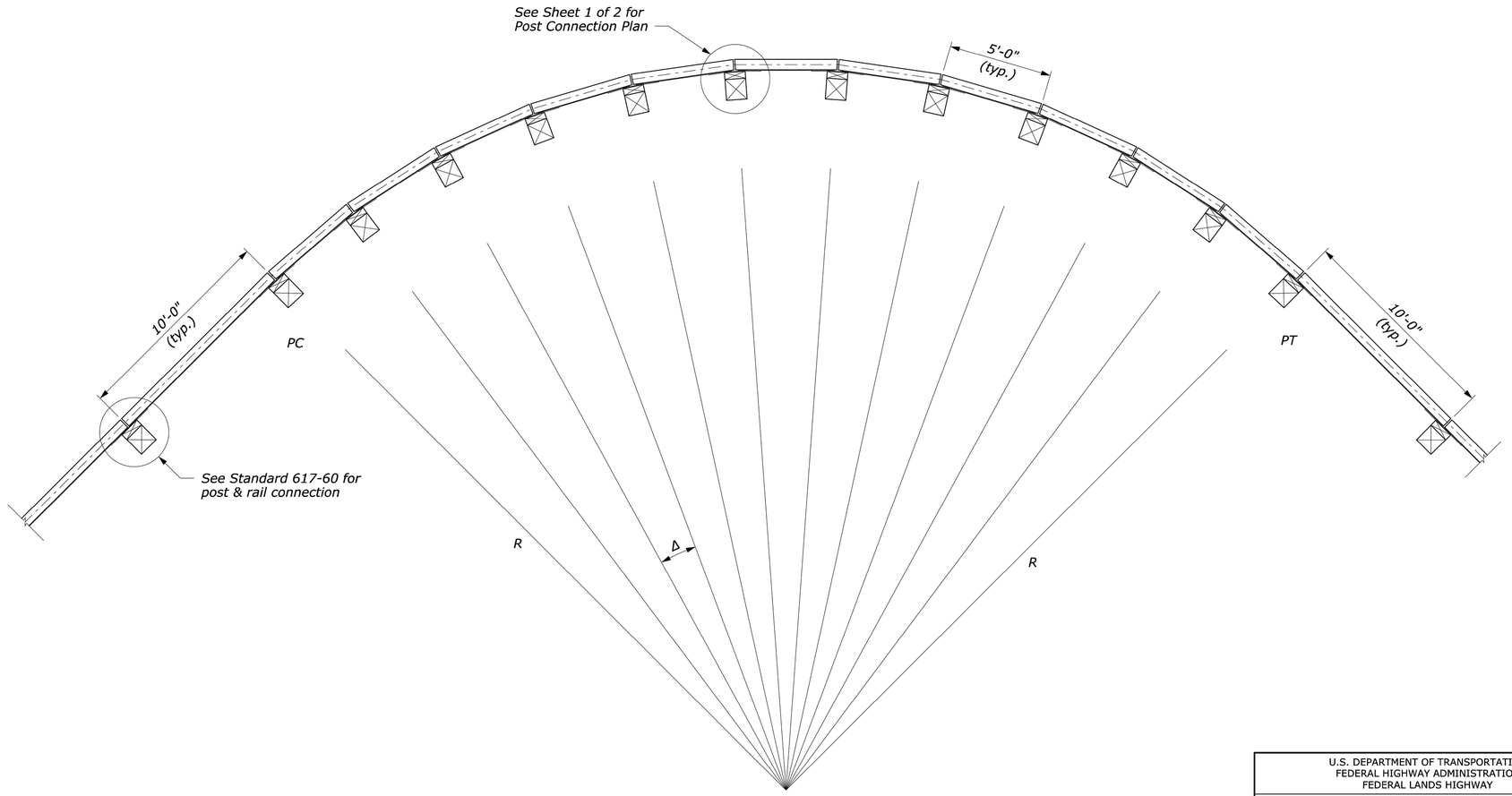
FHWA TIMBER GUARDRAIL DETAILS

SHEET 11 of 29

STATE	PROJECT	SHEET NUMBER

NOTE:

1. *Δ is the central angle which subtends a 5'-0" chord.*
2. *R is measured from the center of the circle to the back surface of the rough sawn timber rail.*



PLAN VIEW LAYOUT

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

U.S. CUSTOMARY STANDARD

STEEL-BACKED TIMBER GUARDRAIL AROUND CIRCULAR CURVES 70 FOOT RADIUS AND BELOW

Sheet 2 of 2

STANDARD APPROVED FOR USE 6/2005

REVISED:

STANDARD 617-63

1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

FHWA TIMBER GUARDRAIL DETAILS

SHEET

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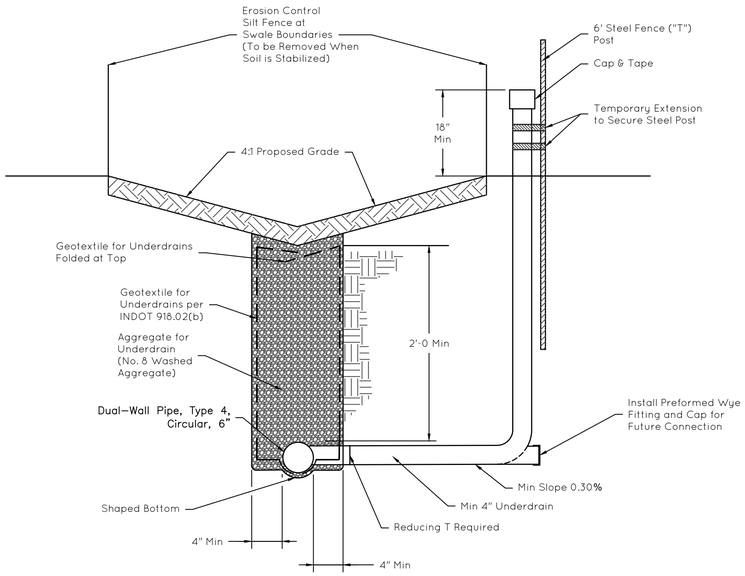
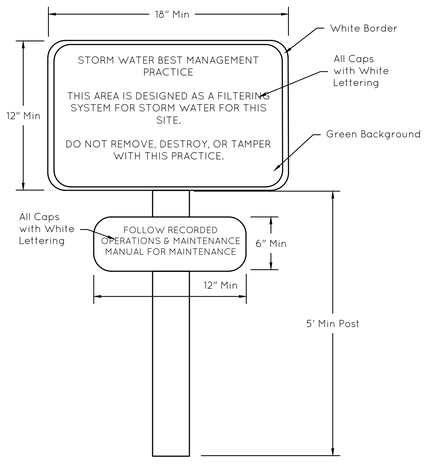


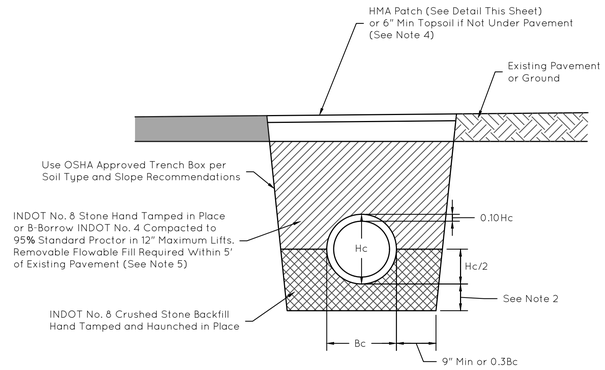
Notes:
1) Temporary extension above ground to be removed upon connection to house. If extension is not utilized, it shall be capped below ground level.
2) Location of structures shall be shown on as-built plans.
3) Must connect sump pumps to underdrain.
4) Required for all rear yard drainage swales unless waived in writing by the Director of Engineering.

REAR YARD UNDERDRAIN
Not to Scale

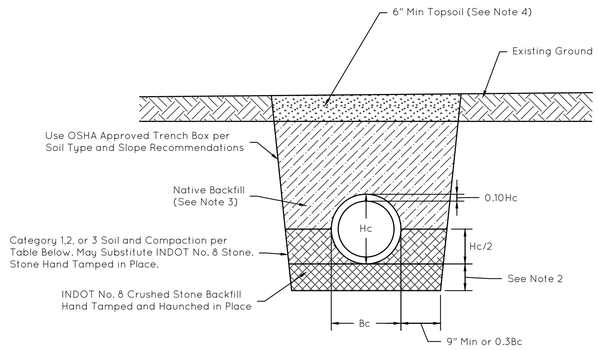


Notes:
1) BMP signs should be placed immediately adjacent or within the practice.
2) Signs should be aluminum and meet minimum IMUTCD standards.
3) Total number of signs required for each BMP is subject to plan review.

BMP SIGN
Not to Scale



Within 5' of Pavement or Under Pavement



Outside of Pavement

SOIL CATEGORY	SOIL NAME	USCS SOIL TYPE	AASHTO SOIL TYPE	STANDARD PROCTOR	MODIFIED PROCTOR
CATEGORY 1	CLEAN GRAVEL OR SAND	SW, SP, GW, GP	A1, A3	85	80
CATEGORY 2	SILTY GRAVEL OR SAND	GM, SM, ML & GC/SC W/LESS THAN 20% PASSING #200 SIEVE	A2, A4	90	85
CATEGORY 3	SILTY CLAY	CL, MH, GC, SC	A5, A6	95	85

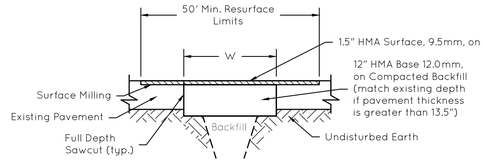
Reference: American Concrete Pipe Association Standard Installation Manual

Notes:
1) For backfill purposes, paved shoulders and curbs are considered pavement. If paving is to occur within 30 days of placement of INDOT No.#4 B-Borrow, contractor shall provide City of Fishers with Professional Engineer certified compaction results.
2) Depth of bedding material below pipe shall be minimum of 3" or hc/24, whichever is greater.
3) Native backfill material must be free of aggregate greater than 6" diameter.
4) Topsoil material shall be mounded to accommodate settlement.
5) Removable flowable backfill shall be required for all open cuts across existing pavement and will also be allowed as a substitute for other backfill requirements.
6) Pipe and fittings used in storm sewer construction shall be RCP (AASHTO M170) and meet the fill height and load requirements according to the latest fill height tables of INDOT. Refer to Chapter 4.J of the City of Fishers Stormwater Technical Standards Manual for other approved pipe materials that may be used in commercial parking lots or private, non-paved areas. Any alternative pipe materials shall be in accordance with the requirements of Chapter 4.J, and shall be installed in accordance with manufacturer's specifications.
7) A minimum of Class III RCP (D-load 1350 lb/ft/ft) is required for all pipe within the City of Fishers Right-of-Way, or areas subject to loading. An alternate pipe class (Class IV or V) may be required by the design engineer or Director of Engineering for special pavement loading circumstances.
8) For pavement bores, alternative materials will be considered.
9) For elliptical or arch pipe installations, see installation specifications from the American Concrete Pipe Association.
10) For all excavation work, OSHA approved safety standards shall be followed.

TRENCH BACKFILL DETAILS
Not to Scale

PAVEMENT RESTORATION TABLE	
UTILITY DEPTH RANGE (FEET)	MAXIMUM TRENCH WIDTH AT FINISHED GRADE, W (FEET)
0 to 5	I.D. +5
5 to 8	I.D. +8
8 to 10	I.D. +10
10 to 12	I.D. +12
12 to 14	I.D. +14
14 to 16	I.D. +16
16 to 18	I.D. +18
18 to 20	I.D. +20

I.D. = Pipe or Conduit Inside Diameter



Notes:
1) Sawcuts shall provide a vertical, neat, and uniform edge.
2) All materials shall comply with specifications as required by the City of Fishers.
3) Contractor shall surface mill (1.5") existing pavement 25 ft. in each direction from trench centerline from face-of-curb to face-of-curb or edge-of-roadway, replace with 1.5" HMA Surface, 9.5mm, and appropriate pavement markings.
4) The existing milled surface and HMA Base layer is to be tack coated prior to the placement of new asphalt. The new surface pavement grade shall match the existing surface pavement grade.
5) A two (2) inch wide band of crack sealant is to be applied along the joint between the existing and new asphalt surface. Sealant is to be applied in accordance with INDOT Standard Specifications, Section 305.
6) Refer to Pavement Restoration Table for W.

HMA PATCH DETAIL
Not to Scale

1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

STORM SEWER BACKFILL, SWALE UNDERDRAIN, EXCAVATION DETAILS AND NOTES

SHEET
13 of 29

NOTES

1) Inlet boxes shall not extend into the pavement section beyond the width of the wall thickness which shall be a maximum of 6 inches. Square or rectangular structures shall be utilized for all pipe connections along the curb line. The maximum inlet box size shall be limited to 24"x36". Mainline pipe shall be defined as all pipe greater than 15" in diameter. No mainline pipe shall be allowed in direct connection to the inlet box. Details and manufacturer shop drawings shall be provided for all pipe connections less than 90 degrees to the box edge. Field changes to structures shall be cut or cored. Round structures shall only be allowed for areas outside of the curb line and outside of road section pavement.

2) 24"x24" inlet boxes shall be limited to depths of 5 feet. Inlet boxes greater than 5 feet in depth shall be 24"x36" (inside dimensions), or greater, and include steps.

3) The downstream most structure that collects runoff from within the Right-of-Way shall be sumped (2 feet) prior to the detention basin and is required to be placed within 15 feet of the curb, where practical, and equipped with a snout to catch floatables.

4) The contractor shall use precast inlets or catch basins, unless otherwise approved by the Director of Engineering, that are in accordance with INDOT Standard Specifications.

5) A 6" cushion of INDOT No. 8 crushed stone shall be required when the precast bottom section is used.

6) If a precast inlet, catch basin, or manhole is used and the adjoining pipes are field connected directly to the precast unit, the connection shall be made using a Class "A" concrete collar of 6" minimum longitudinal and radial thickness. Brick should be used as a filler for concrete patching for inlets that are not precast.

7) Waterproofing material shall conform to AASHTO M115 and INDOT Standard Specifications.

8) All curb inlets and catch basins shall be equipped for underdrains.

9) All structures receiving sub-surface drain (SSD) shall have both ports core drilled. T or Y blind connections are not allowed.

10) Expansion joints are required around castings for all structures located within PCCP, PCC sidewalk, PCC multi-use paths, or concrete curb and/or gutter.

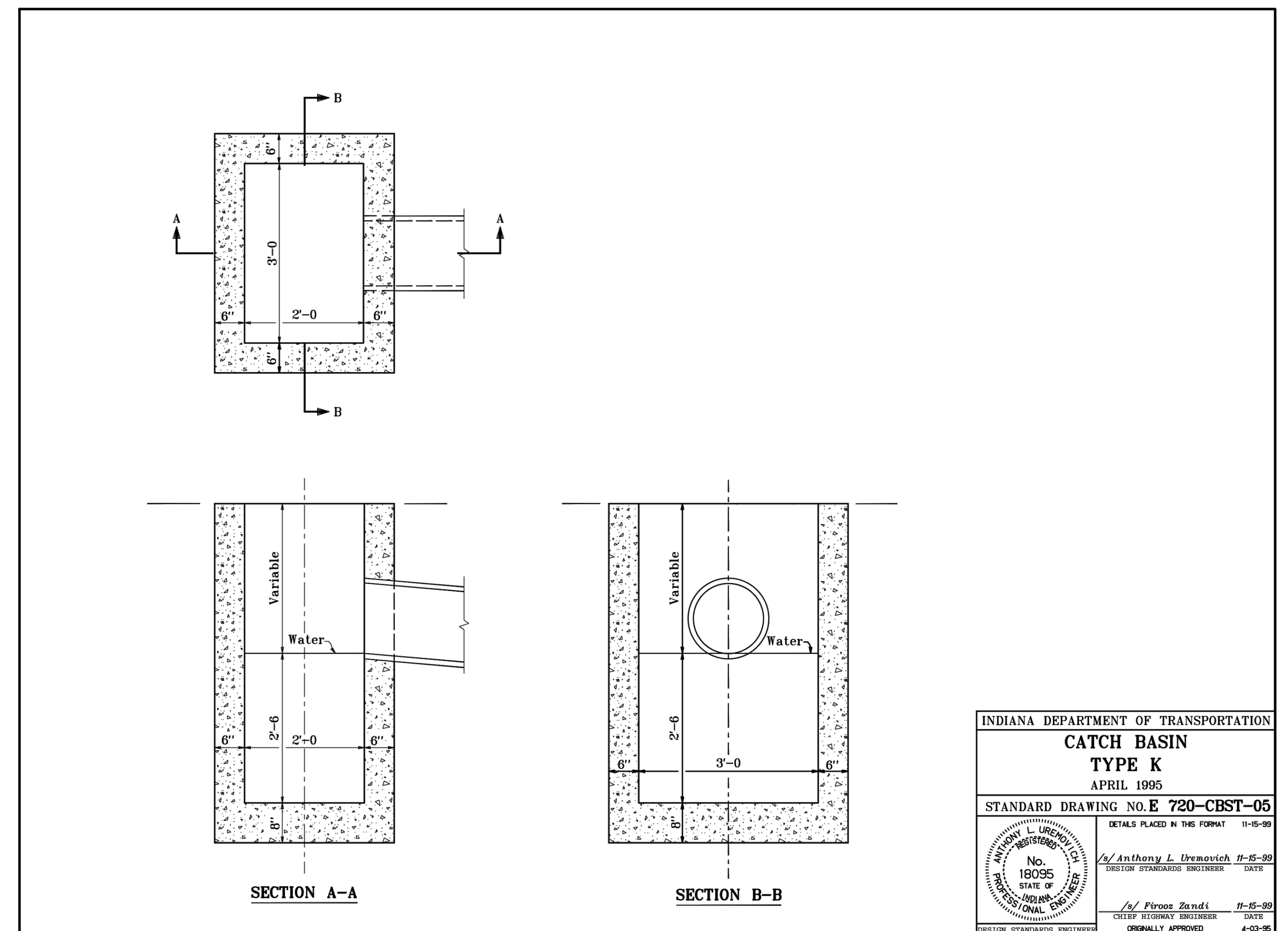
11) All castings shall be checked to meet inlet design and ensure compatibility with curb specified, swales, ponds, etc. All castings shall be in accordance with the Compatibility of Inlet Structures and Castings Table, this sheet, unless otherwise approved by the Director of Engineering.

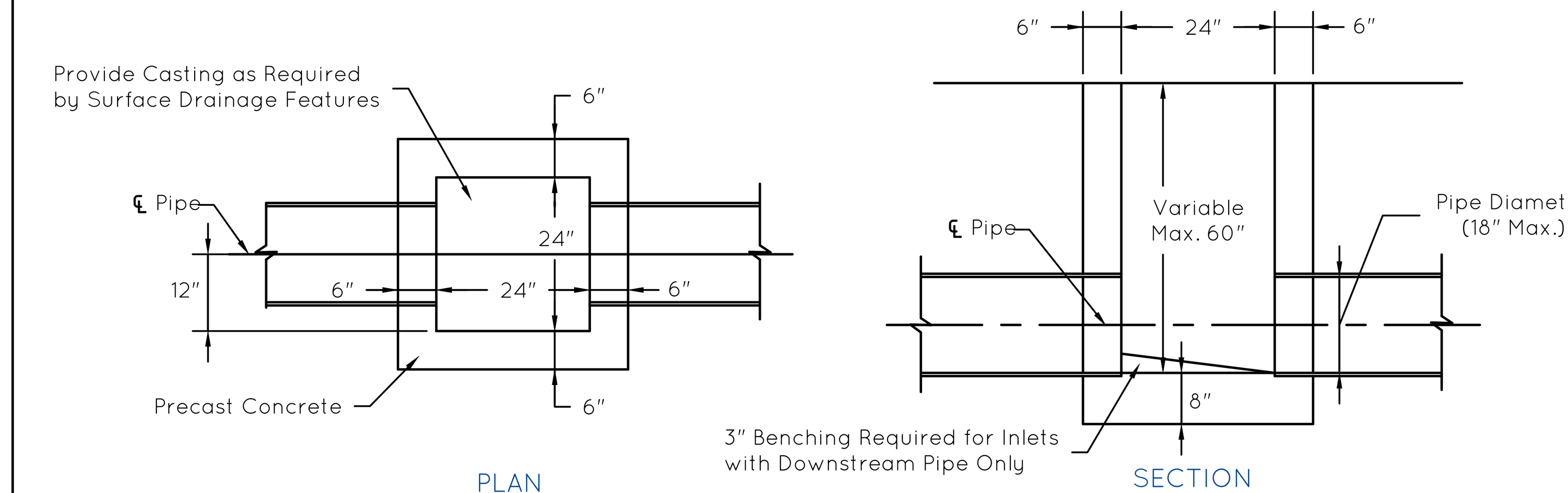
12) All inlet castings shall contain a "NO DUMPING, DRAINS TO WATERWAY" or equivalent clean water message to educate and warn against illegal dumping. Casting openings should be grated or otherwise designed to limit floatables and debris from entering the inlet box.

13) No inlet castings shall be installed within wheel paths, unless otherwise approved by the Director of Engineering.

COMPATIBILITY OF INLET STRUCTURES AND CASTINGS

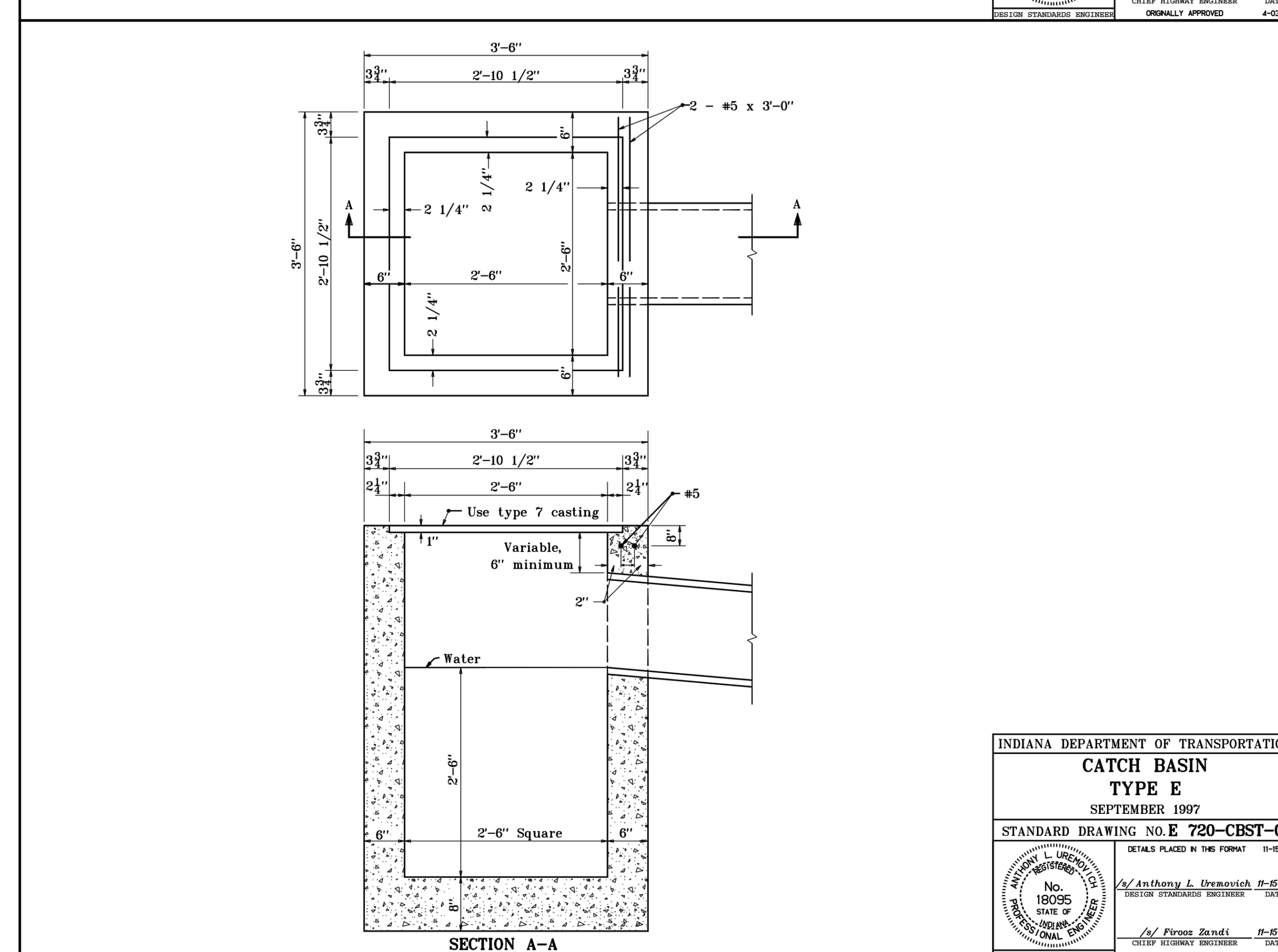
INLET TYPE	INDOT CASTING TYPES					NEENAH CASTING TYPES					EAST JORDAN IRON WORKS CASTING TYPES					
	2	3	7	8	10	R-3287-10V	R-3405-A	R-3501-TR	R-3501-TL	R-4215-C	5250	6610	7030 w/ M2 Grate & T1 Back	7495M1	7495M2	7495M4
A	X	X		X			X				X					
E			X							X		X				
F			X							X		X				
J					X	X		X	X				X	X	X	X
M					X	X		X	X				X	X	X	X

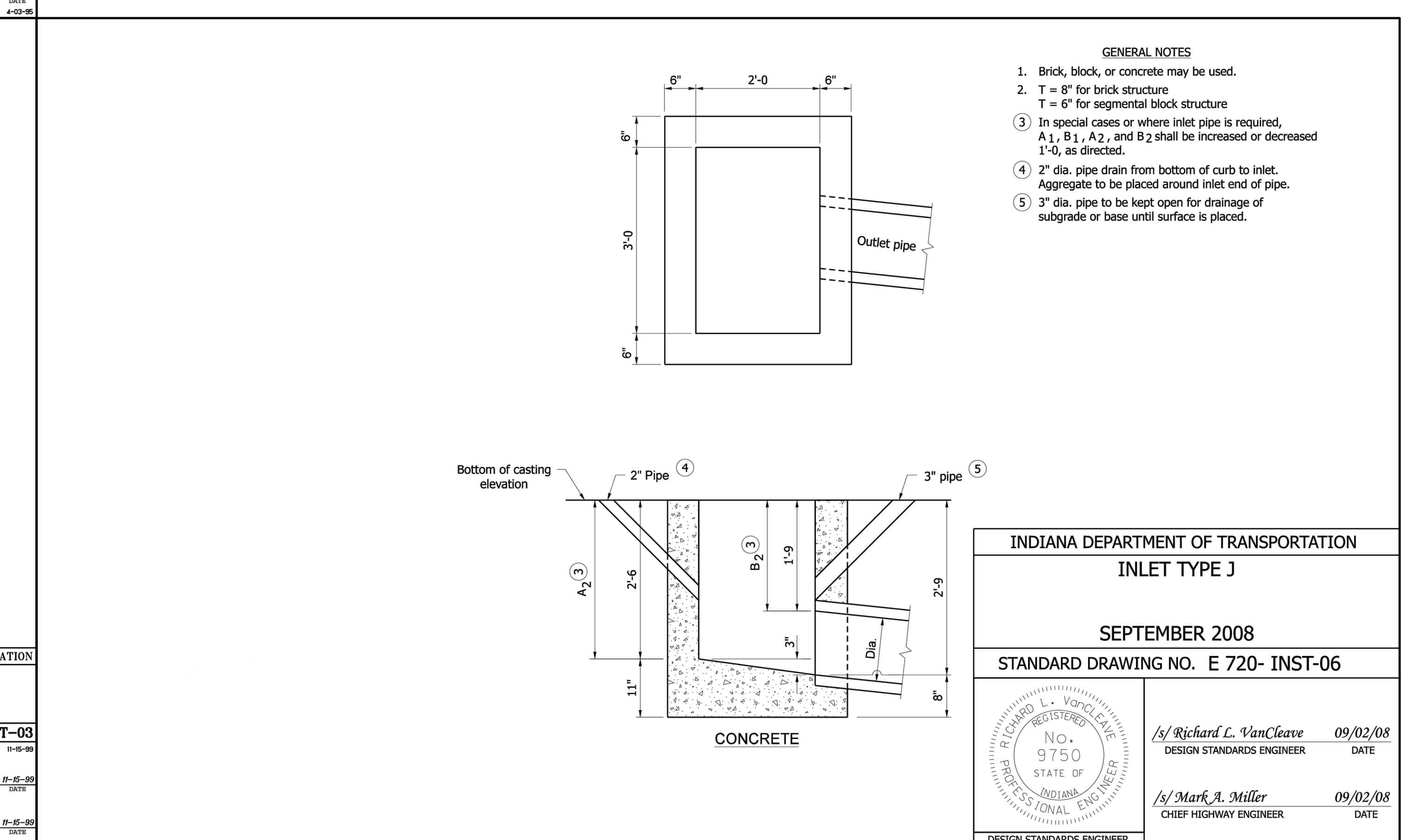


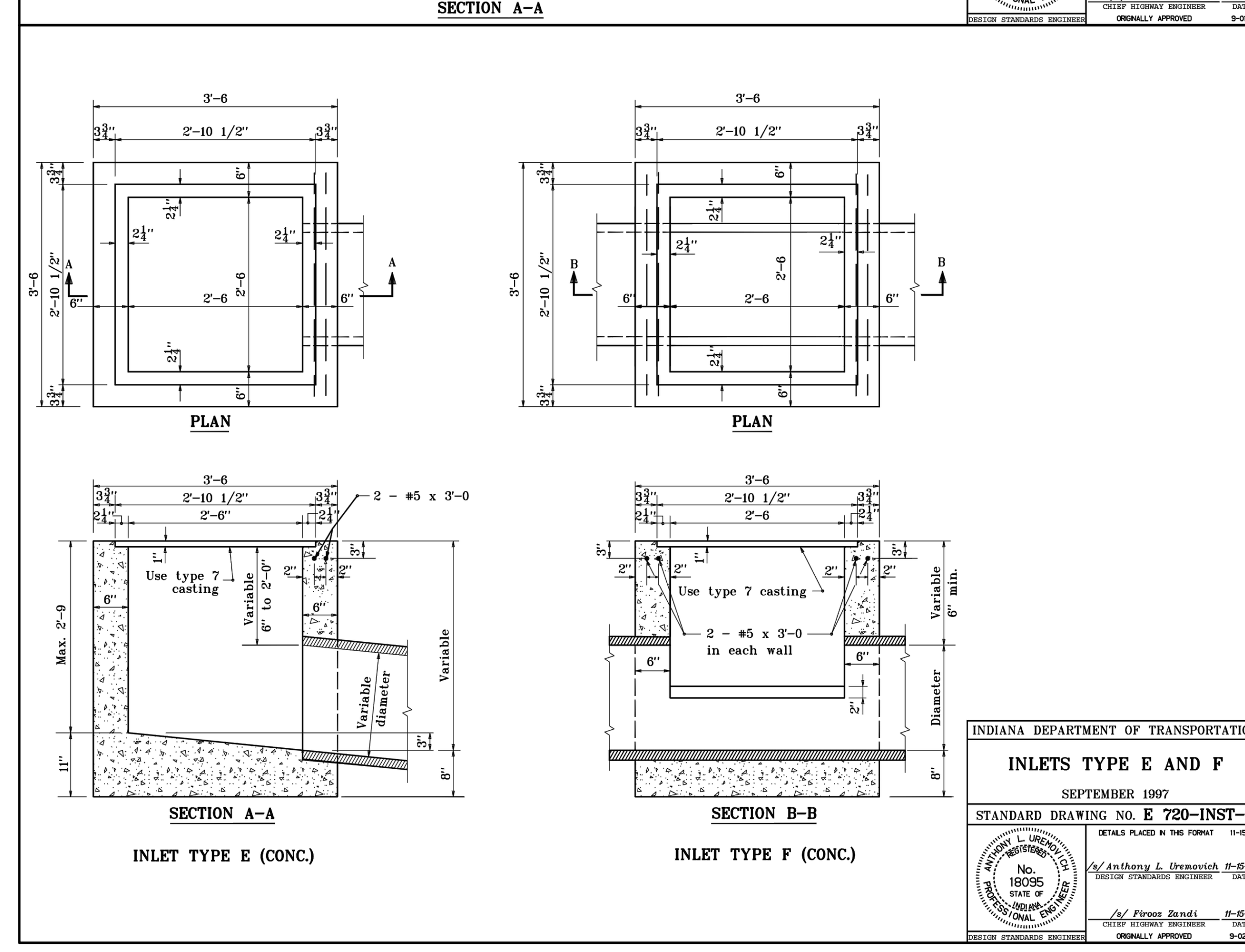


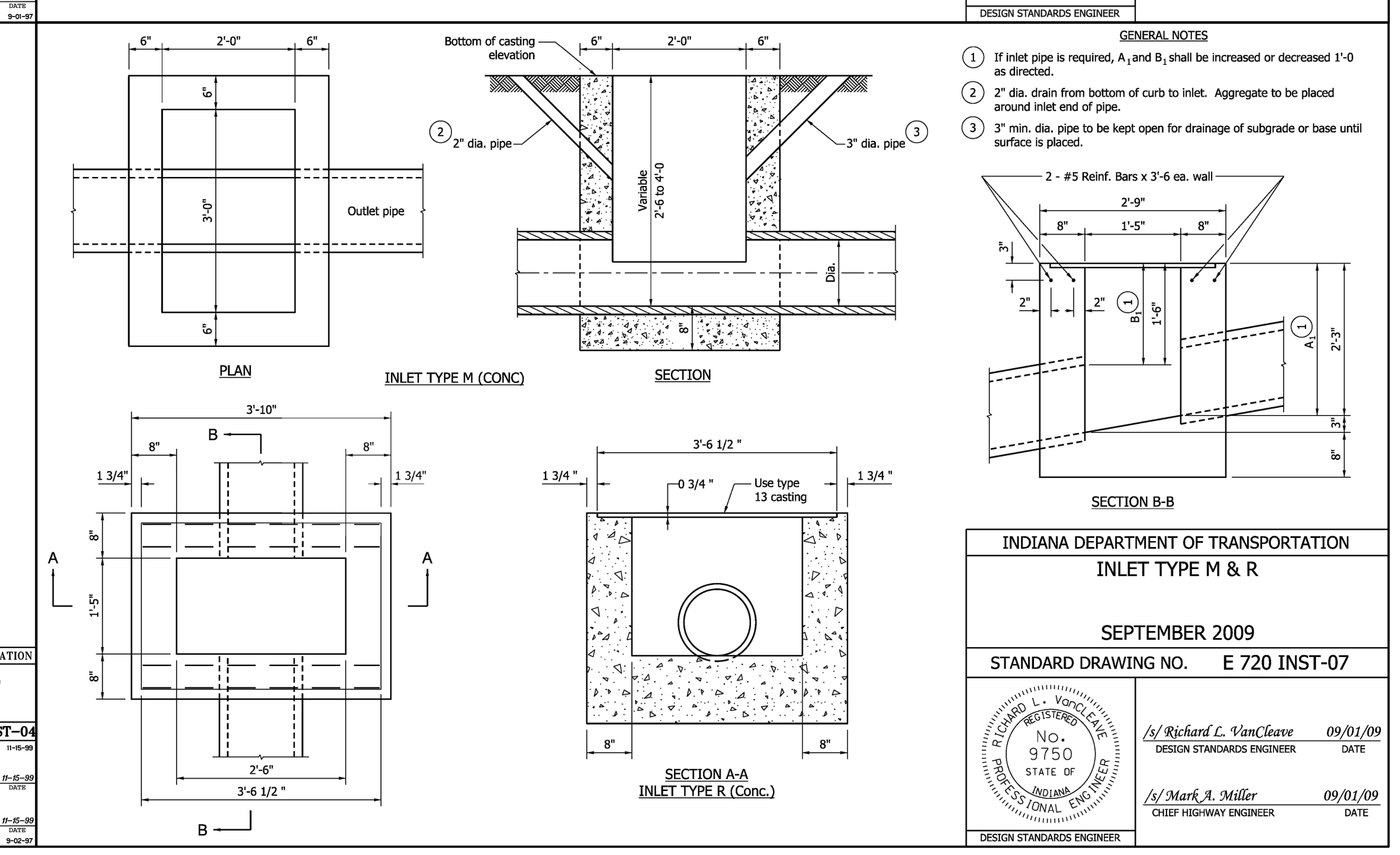
INLET, TYPE A

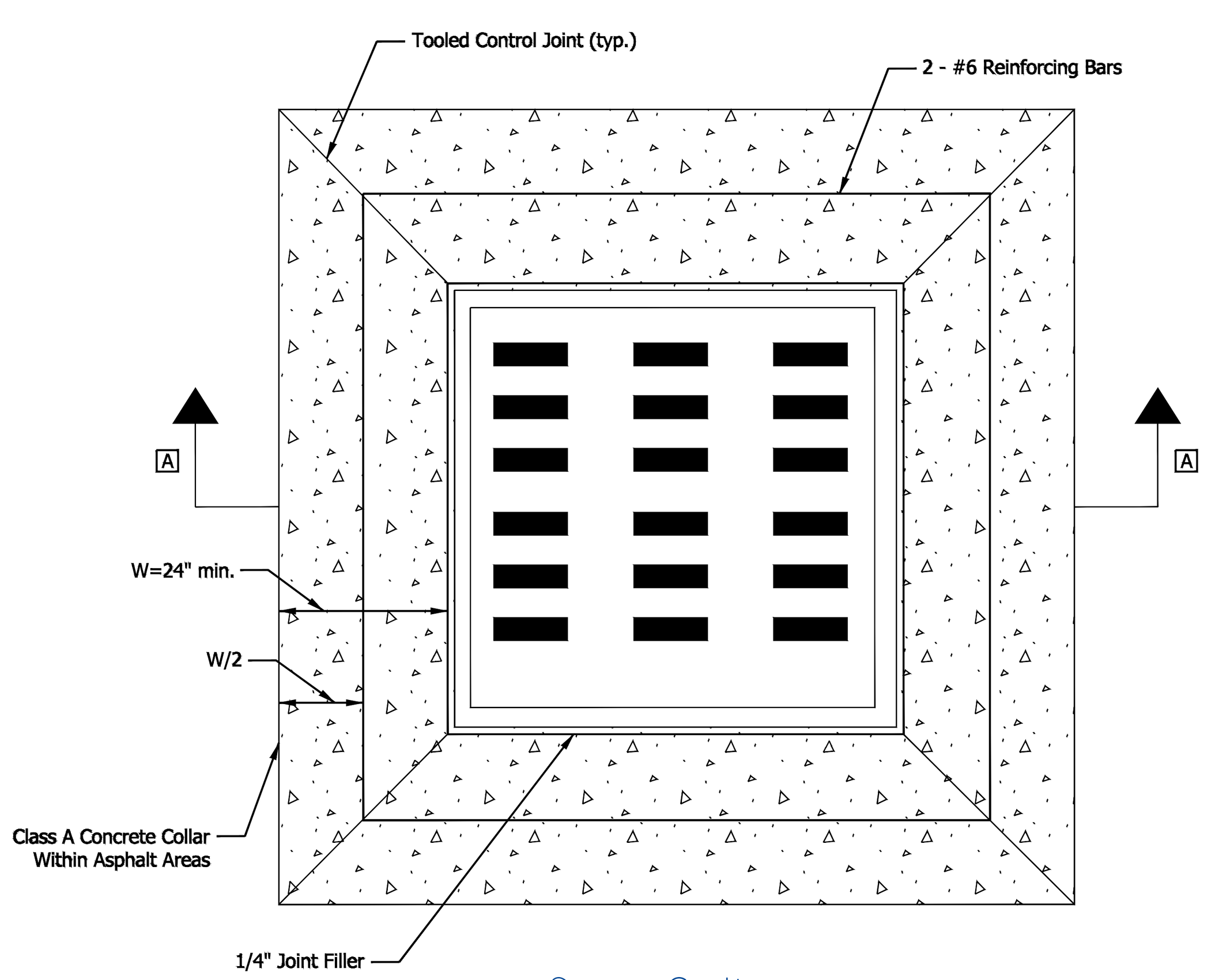
Not to Scale



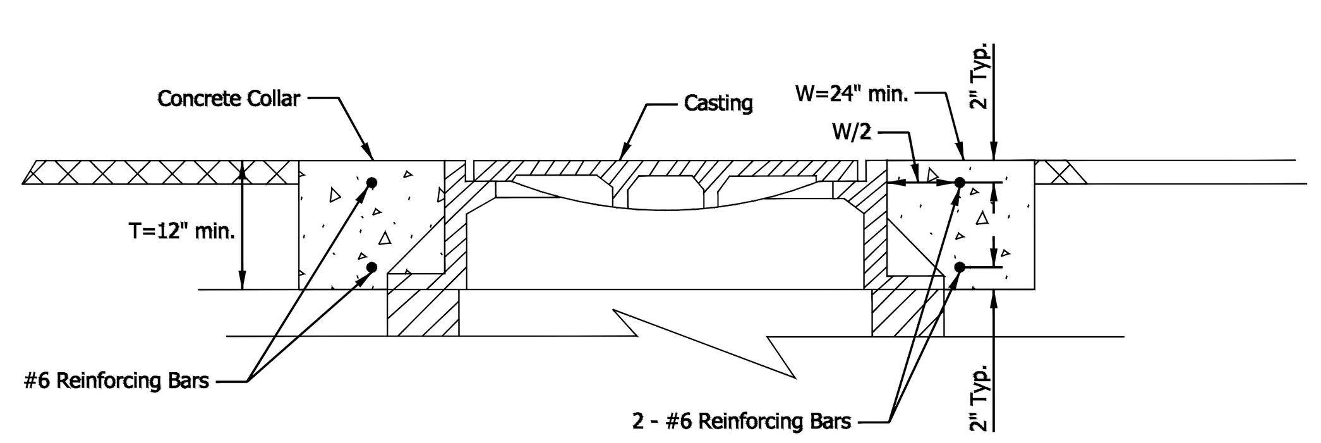








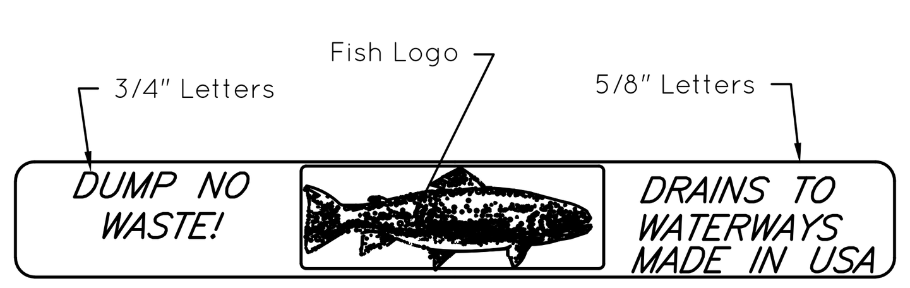
Square Casting



Section A-A

CONCRETE COLLAR FOR SQUARE CASTINGS DETAIL

Not to Scale



INLET LID CASTING DETAIL

Not to Scale

1/18/2022

CITY OF FISHERS STANDARD CONSTRUCTION DETAILS		**SHEET**
STORM SEWER INLET STRUCTURE DETAILS AND NOTES		**14 of 29**

NOTES

1) All precast manhole materials shall conform to ASTM C-478 and INDOT Standard Specifications (min. sq. in. of reinforcing steel per lineal foot of barrel shall be 0.12).

2) A 6" cushion of INDOT No. 8 crushed stone shall be required when the precast bottom section is used.

3) Joints between sections of precast manholes shall be in accordance with ASTM C-443.

4) If the contractor uses a precast manhole and the adjoining pipes are field connected directly to the precast unit, the connection shall be made using a Class "A" concrete collar of 6" minimum longitudinal and radial thickness. Brick should be used as a filler for concrete patching for manholes that are not precast.

5) Drop pipe may be used with Manhole, Type D, E, F, or G and referred to as Drop Manhole, Type D, E, F, or G as approved by the Director of Engineering.

6) Bottom shall be constructed of precast bottom section or Class "A" concrete formed in place.

7) Benchwalls shall be Class "A" concrete.

8) Waterproofing material shall conform to AASHTO M115 and INDOT Standard Specifications.

9) Flat precast covers shall be used where headroom is limited.

10) The downstream most structure that collects runoff from within the Right-of-Way shall be sumped (2 feet) prior to the detention basin and is required to be placed within 15 feet of the curb, where practical, and equipped with a snout to catch floatables.

11) All structures receiving sub-surface drain (SSD) shall have both ports core drilled. T or Y blind connections are not allowed.

12) Expansion joints around castings are required at all structures located within PCCP, PCC sidewalk, PCC multi-use paths, or concrete curb and/or gutter.

13) All manhole castings shall be checked to meet inlet grate design and ensure compatibility with curb specified, swales, ponds, etc. In accordance with the Compatibility of Manhole Structures and Castings Table, this sheet, unless otherwise approved by the Director of Engineering.

14) All manhole castings shall contain a "NO DUMPING, DRAINS TO WATERWAY" or equivalent clean water message to educate and warn against illegal dumping. Casting openings should be grated or otherwise designed to limit floatables and debris from entering the manhole.

15) All manhole steps shall conform to INDOT Standard Drawing 720-MHST-09.

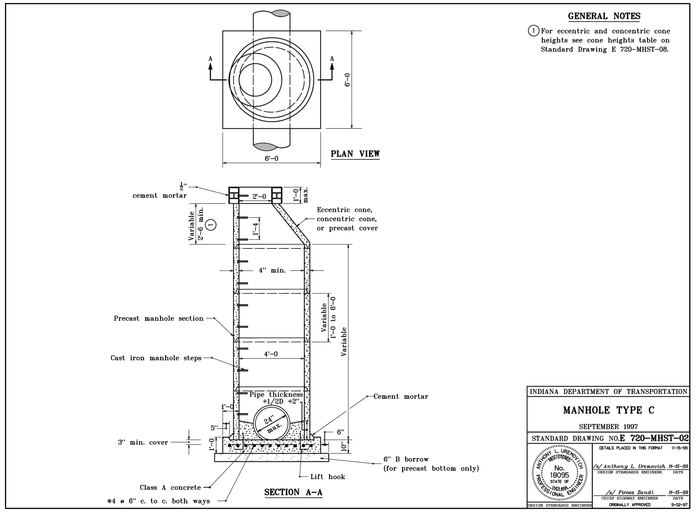
16) No manhole castings shall be installed within wheel paths, unless otherwise approved by the Director of Engineering.

Round Casting — Section A-A

CONCRETE COLLAR FOR ROUND CASTINGS DETAIL
Not to Scale

MANHOLE LID CASTING DETAIL
Not to Scale

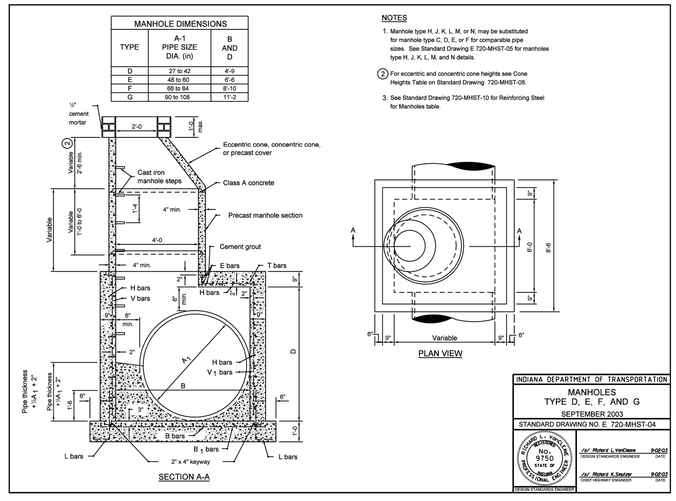
COMPATIBILITY OF MANHOLE STRUCTURES AND CASTINGS									
MANHOLE TYPE	INDOT CASTING TYPES			NEENAH CASTING TYPES			EAST JORDAN IRON WORKS CASTING TYPES		
	2	4	8	R-2502-D	R-4342	R-1772	1022 w/ Type A Lid	1022 w/ M1 or M3 Grate	6489
C	X	X	X	X	X	X	X	X	X
H	X	X	X	X	X	X	X	X	X
J	X	X	X	X	X	X	X	X	X
K	X	X	X	X	X	X	X	X	X
L	X	X	X	X	X	X	X	X	X
M	X	X	X	X	X	X	X	X	X
N	X	X	X	X	X	X	X	X	X



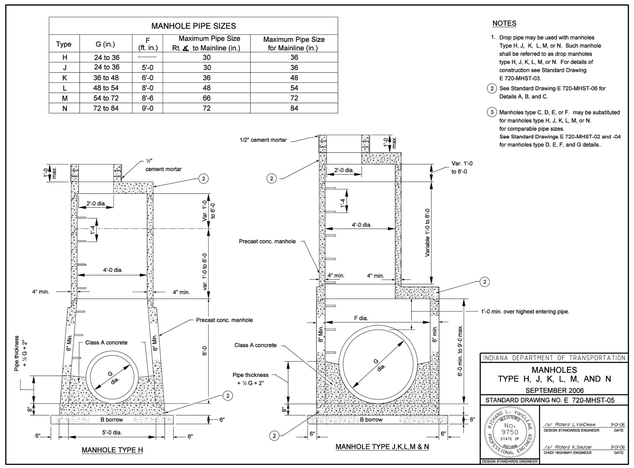
GENERAL NOTES

1. For eccentric and concentric cone heights see cone heights table on Standard Drawing E 720-MHST-08.

INDIANA DEPARTMENT OF TRANSPORTATION
MANHOLE TYPE C
SEPTEMBER 1997
STANDARD DRAWING NO. E 720-MHST-02
DETAILS PLACED IN THIS FORMAT 11-15-99
/s/ Anthony L. Devanich 11-15-99 DESIGN STANDARDS ENGINEER DATE
/s/ Fiross Bandi 11-15-99 CHIEF ECONOMY ENGINEER DATE
ORIGINALLY APPROVED 9-02-97
JASON M. TAYLOR REGISTERED No. 19095 STATE OF INDIANA PROFESSIONAL ENGINEER
DESIGN STANDARDS ENGINEER



INDIANA DEPARTMENT OF TRANSPORTATION
MANHOLES
TYPE D, E, F, AND G
SEPTEMBER 2003
STANDARD DRAWING NO. E 720-MHST-04
/s/ Richard L. VanCleave 9-02-03 DESIGN STANDARDS ENGINEER DATE
/s/ Richard K. Sinclair 9-02-03 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER



INDIANA DEPARTMENT OF TRANSPORTATION
MANHOLES
TYPE H, J, K, L, M, AND N
SEPTEMBER 2006
STANDARD DRAWING NO. E 720-MHST-05
/s/ Richard L. VanCleave 9-01-06 DESIGN STANDARDS ENGINEER DATE
/s/ Richard K. Sinclair 9-01-06 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER

1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

STORM SEWER MANHOLE STRUCTURE DETAILS AND NOTES

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GENERAL WET-BOTTOM DETENTION BASIN NOTES

1) All detention basins shall be designed in accordance with Chapters 3, 6 and 8 of the City of Fishers Stormwater Technical Standards Manual (STSM).

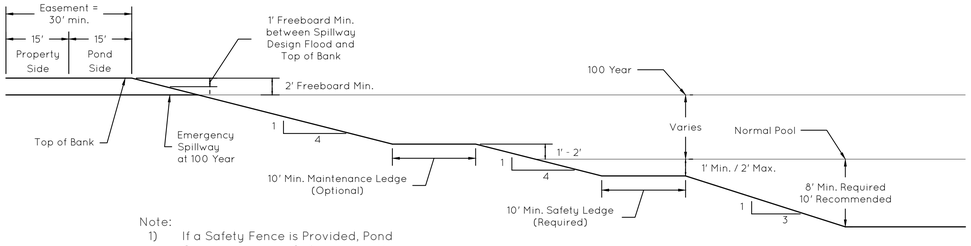
2) Per Section 6.C.4 of the STSM, all detention facilities shall be separated from edge of pavement of parking lots by a minimum of 50 feet and a minimum of 150 feet from a roadway, unless structural measures, such as guardrails, berms, or other physical barriers are provided that prevent passage of a vehicle. See Guardrail Details, Sheets 9 - 12.

3) Regardless of physical barriers, minimum separation of all stormwater detention facilities shall be according to the Minimum Detention Pond Setbacks in Table 1.

4) The design of all wet-bottom detention facilities should include methods to prevent pond stagnation, including but not limited to, surface or sub-surface aeration (diffusers) or destratification facilities.

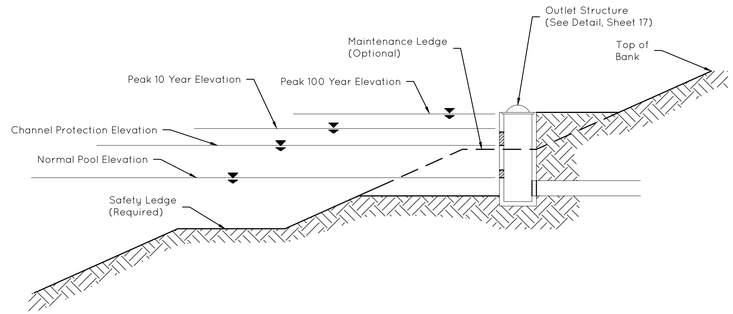
Table 1. Detention Facility Minimum Separations

FUNCTIONAL CLASSIFICATION OF ROADWAY	MINIMUM DETENTION POND SETBACK
Principal Arterial	50 Ft. From Right-of-Way to the Top of Bank -Or- 50 Ft. From Right-Of-Way to Maximum 100-Year Elevation, Whichever is Greater.
Minor Arterial	
Rural Major Collector	
Rural Minor Collector	
Urban Collector	
Local	
Private Roadways	80 Ft. From Centerline of Roadway to the Top of Bank -Or- 80 Ft. From Centerline of Roadway to Maximum 100-Year Elevation, Whichever is Greater.



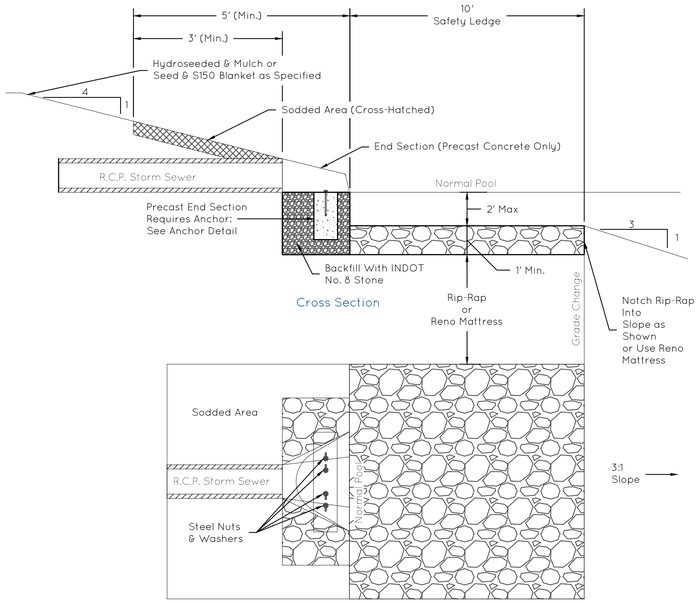
Note:
1) If a Safety Fence is Provided, Pond Slopes Above the Safety Ledge May be Changed to 3:1 Versus 4:1.

DETENTION BASIN CROSS-SECTION
Not to Scale

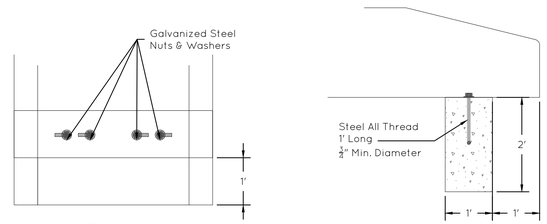


TYPICAL OUTLET STRUCTURE PLACEMENT
Not to Scale

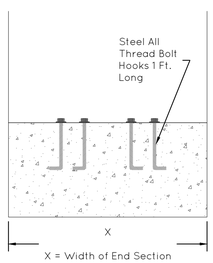
Note:
1) Underwater discharge not allowed.



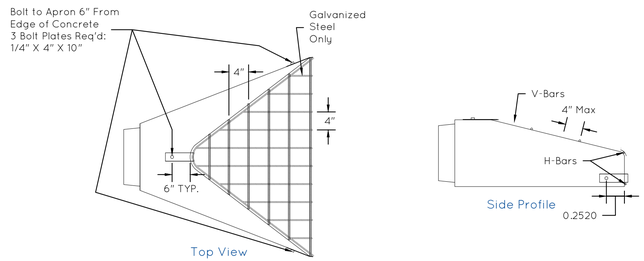
OUTLET TO DETENTION BASIN
Not to Scale



All Thread Spacing to be Two Per Foot
EX: 12" End Section = 2 All Thread
24" End Section = 4 All Thread



END SECTION ANCHOR
Not to Scale



Notes:
1) Trash guards should be galvanized steel only.
2) To be placed on upstream end of detention basin outlet pipe only.

TRASH/DEBRIS GUARD
Not to Scale

1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

DETENTION BASIN & END SECTION DETAILS

SHEET
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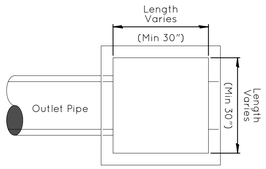
GENERAL OUTLET STRUCTURE NOTES

1) Use of a circular or rectangular orifice is at the discretion of the designer. The minimum opening height or diameter shall be 6", unless written approval of a smaller opening is provided during the stormwater review process. Openings shall be consolidated as much as is practicable while meeting the remaining requirements to reduce the potential for clogging. The minimum 6" dimension requirement does not apply to CPv or WQ orifice sizing. Coordinate with City of Fishers for minimum CPv / WQ orifice sizing.

2) If an overland emergency flow route cannot be created, the structure shall be sized to allow the open casting and outlet pipe to serve as a drop-inlet capable of carrying 125% of the peak inflow to the detention pond.

3) The maximum opening size for trash racks shall be 3" for outlets less than 24" in diameter or smaller than a 24" x 24" rectangle. Larger outlets shall have a 6" opening size.



Outlet Structure Top View

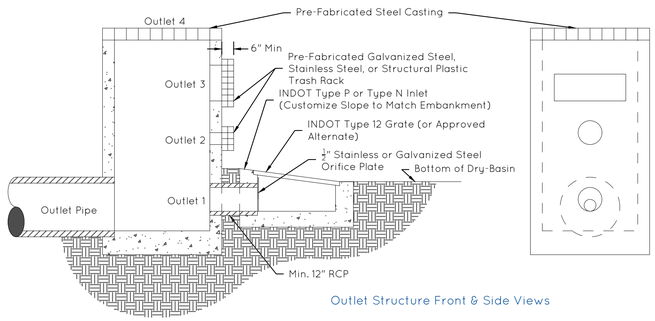
DESCRIPTION OF OUTLETS

Outlet 1: Extended Detention / Channel Protection Outlet
The purpose of this outlet is to detain the flow and provide for settlement of suspended solids and to attenuate the outflow from the detention basin to meet the water quality or channel protection requirements of Ch. 8 of the STSM.

Outlet 2: Peak Flow Control Orifice (10-year)
The purpose of this outlet is to restrict the flow leaving the detention pond when the volume of runoff exceeds the water quality or channel protection volume. This outlet is typically used to control the release of runoff for events between the 2-year and 10-year events to meet peak flow control requirements. This outlet has an invert elevation at the elevation of when the water quality or channel protection is fully stored assuming no outflow from Outlet 1.

Outlet 3: Peak Flow Control Orifice (100-year)
The purpose of this outlet is to supplement Outlet 2 when the 100-year peak flow control requirements cannot be met using a single peak flow control orifice. This outlet typically has an invert elevation above the 10-year maximum water surface elevation.

Outlet 4: Emergency Overflow
The purpose of this outlet is to allow the outlet to convey flow downstream even if the peak flow control orifice(s) are completely blocked. It may also serve as a part of the emergency flood route in special circumstances.



Outlet Structure Front & Side Views

—Crest Elevation (Outlet 4) = _____.__
The rim crest elevation is established by the maximum water surface elevation of the 100-year storm event when the peak flow control requirements are met.

—100-year Invert Elevation (Outlet 3) = _____.__
The elevation of the 100-year orifice is established by the maximum water surface elevation of the peak 10-year storm event. The orifice size is established in conjunction with Outlet 2 to meet peak flow control rates and available storage requirements.

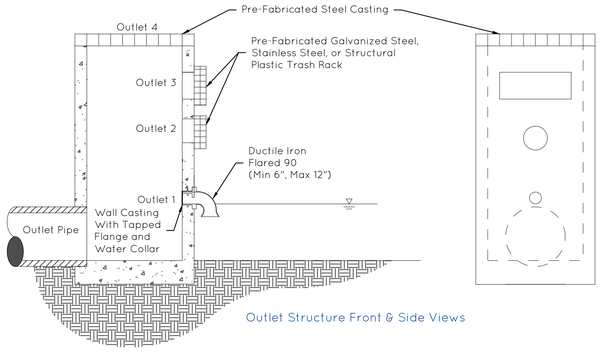
—10-year Invert Elevation (Outlet 2) = _____.__
The elevation of the 10-year orifice is established when the calculated Channel Protection or Water Quality Volume is fully stored in the detention basin, assuming no outflow from the Extended Detention Outlet (Outlet 1).

—CPv / WQ Invert Elevation (Outlet 1) = _____.__
This elevation is established below the bottom of the dry-bottom pond. Orifice size determined to drain CPv / WQ (if providing CPv or WQ) by storing between the inverts of Outlet 1 and Outlet 2 within 48 HRS after T_{PEAK}.

Note: Design data shall be filled-in for the indicated blanks (_____.__) on the construction plans.

DRY-BOTTOM DETENTION BASIN OUTLET DETAILS - COMBINED PEAK FLOW AND CHANNEL PROTECTION / WATER QUALITY BASIN

Not to Scale



Outlet Structure Front & Side Views

—Crest Elevation (Outlet 4) = _____.__
The rim crest elevation is established by the maximum water surface elevation of the 100-year storm event when the peak flow control requirements are met.

—100-year Invert Elevation (Outlet 3) = _____.__
The elevation of the 100-year orifice is established by the maximum water surface elevation of the peak 10-year storm event. The orifice size is established in conjunction with Outlet 2 to meet peak flow control rates and available storage requirements.

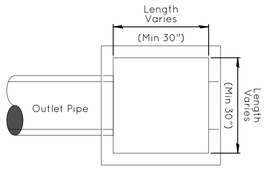
—10-year Invert Elevation (Outlet 2) = _____.__
The elevation of the 10-year orifice is established when the calculated Channel Protection or Water Quality Volume is fully stored in the detention basin, assuming no outflow from the Extended Detention Outlet (Outlet 1).

—CPv / WQ Invert Elevation (Outlet 1) = _____.__
Normal pool elevation of wet pond. Orifice size determined to Drain CPv / WQ (if providing CPv or WQ) by storing between the inverts of Outlet 1 and Outlet 2 within 48 HRS after T_{PEAK}.

Note: Design data shall be filled-in for the indicated blanks (_____.__) on the construction plans.

WET-BOTTOM DETENTION BASIN OUTLET DETAILS - COMBINED PEAK FLOW AND CHANNEL PROTECTION / WATER QUALITY BASIN

Not to Scale



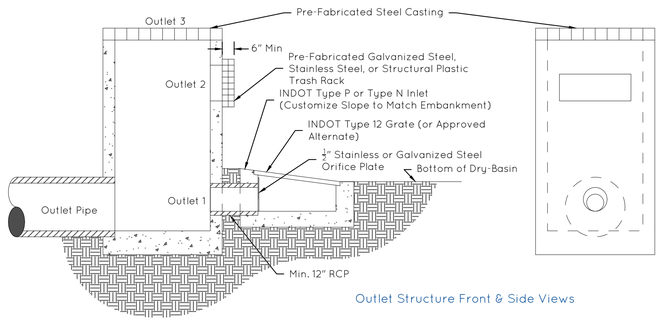
Outlet Structure Top View

DESCRIPTION OF OUTLETS

Outlet 1: Peak Flow Control Orifice (10-year)
The purpose of this outlet is to control the release of runoff for events between the 2-year and 10-year storm events to meet peak flow control requirements per Ch. 3 and 6 of the STSM. This outlet has an invert elevation at the normal pool of a wet pond or below the bottom of a dry-bottom facility.

Outlet 2: Peak Flow Control Orifice (100-year)
The purpose of this outlet is to supplement Outlet 1 when the 100-year peak flow control requirements cannot be met using a single peak flow control orifice. This outlet typically has an invert elevation above the 10-year maximum water surface elevation.

Outlet 3: Emergency Overflow
The purpose of this outlet is to allow the outlet to convey flow downstream even if the peak flow control orifice(s) are completely blocked. It may also serve as a part of the emergency flood route in special circumstances.



Outlet Structure Front & Side Views

—Crest Elevation (Outlet 3) = _____.__
The rim crest elevation is established by the maximum water surface elevation of the 100-year storm event when the peak flow control requirements are met.

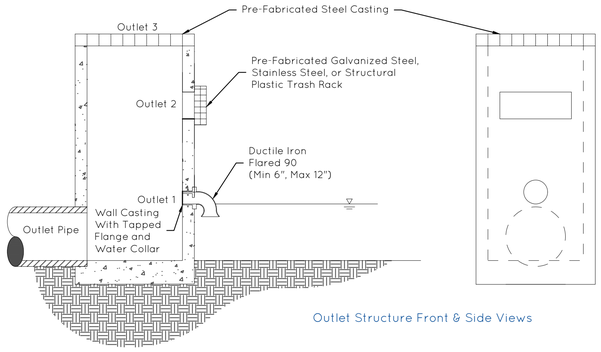
—100-year Invert Elevation (Outlet 2) = _____.__
The elevation of the 100-year orifice is established by the maximum water surface elevation of the peak 10-year storm event. The orifice size is established in conjunction with Outlet 1 to meet peak flow control rates and available storage requirements.

—10-year Invert Elevation (Outlet 1) = _____.__
This elevation is established below the bottom of the dry-bottom pond. Orifice size is established to meet the peak flow control requirements of the 10-year storm event.

Note: Design data shall be filled-in for the indicated blanks (_____.__) on the construction plans.

DRY-BOTTOM DETENTION BASIN OUTLET DETAILS - PEAK FLOW CONTROL FACILITY (SINGLE USE)

Not to Scale



Outlet Structure Front & Side Views

—Crest Elevation (Outlet 3) = _____.__
The rim crest elevation is established by the maximum water surface elevation of the 100-year storm event when the peak flow control requirements are met.

—100-year Invert Elevation (Outlet 2) = _____.__
The elevation of the 100-year orifice is established by the maximum water surface elevation of the peak 10-year storm event. The orifice size is established in conjunction with Outlet 1 to meet peak flow control rates and available storage requirements.

—10-year Invert Elevation (Outlet 1) = _____.__
Normal pool elevation of the wet pond. Orifice size is established to meet the peak flow control requirements of the 10-year storm event.

Note: Design data shall be filled-in for the indicated blanks (_____.__) on the construction plans.

WET-BOTTOM DETENTION BASIN OUTLET DETAILS - PEAK FLOW CONTROL FACILITY (SINGLE USE)

Not to Scale

1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

DETENTION BASIN - OUTLET CONTROL STRUCTURE DETAILS

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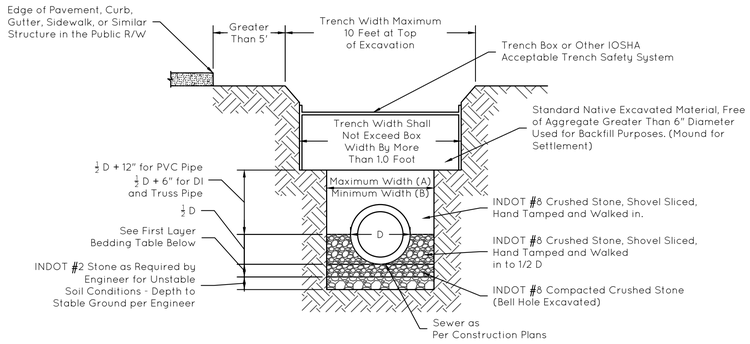
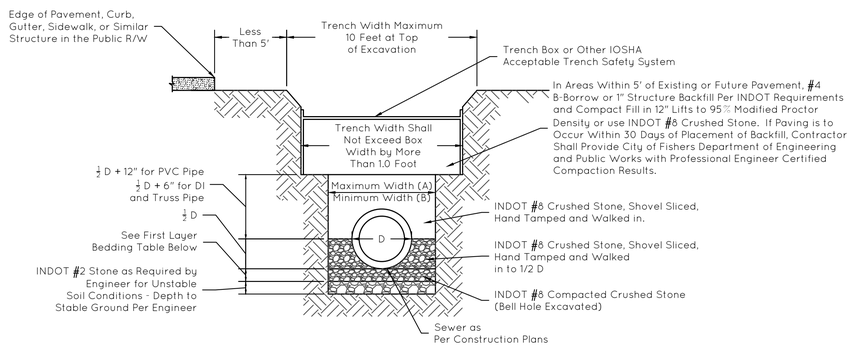


FIRST LAYER BEDDING TABLE		
Pipe Size	6" TO 15"	18" & Over
Bedding Below the Pipe Barrel and Bell	Minimum = 6"	Minimum = 10"

PIPE SIZE	A	B
Up to 18"	3' - 0"	2' - 6"
18" and Greater	D + 24"	D + 18"

Greater Than 5' From Edge of Pavement



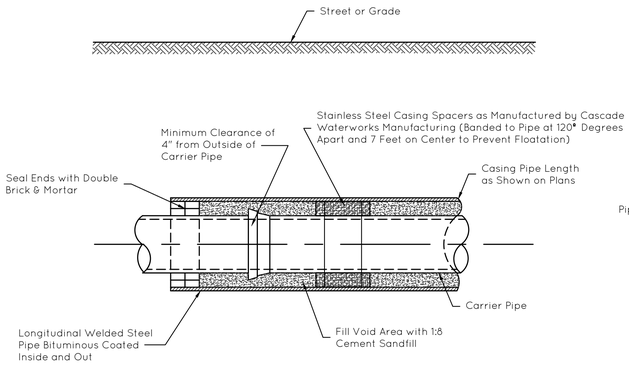
FIRST LAYER BEDDING TABLE		
Pipe Size	6" to 15"	18" & Over
Bedding Below the Pipe Barrel and Bell	Minimum = 6"	Minimum = 10"

PIPE SIZE	A	B
Up to 18"	3' - 0"	2' - 6"
18" and Greater	D + 24"	D + 18"

Within 5' of Existing or Future Pavement

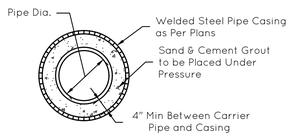
SANITARY SEWER TRENCHING, BEDDING AND BACKFILL

Not to Scale



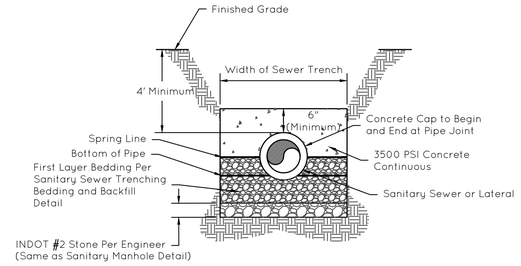
TYPICAL STREET BORING SIDE VIEW

Not to Scale



TYPICAL BORING END VIEW

Not to Scale



Notes:

1) Concrete shall be high-early yield and shall not be backfilled until Engineer deems the concrete adequately cured.
2) To be used when cover over top of pipe is 3-4 feet, per Engineer's direction, or where noted on the construction plans.

CONCRETE CAP

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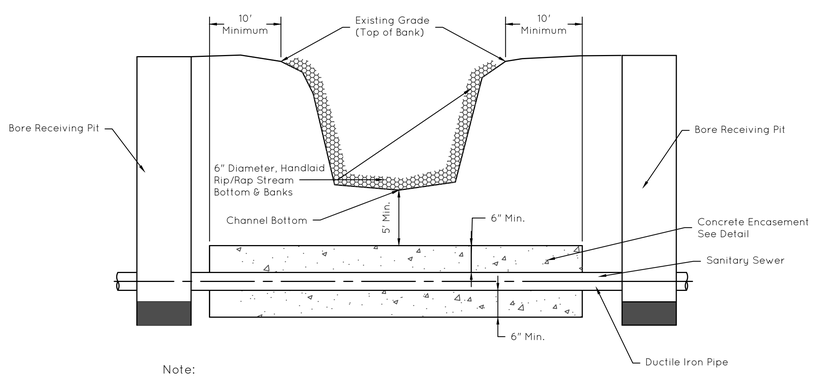
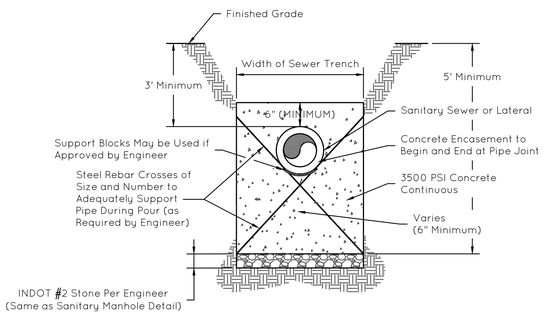


Note:

1) Stream crossing may need permit from Hamilton County Surveyor's Office. Should a county permit be necessary, refer to Hamilton County Surveyor's Office detail.

STREAM CROSSING -GRAVITY SEWER

Not to Scale

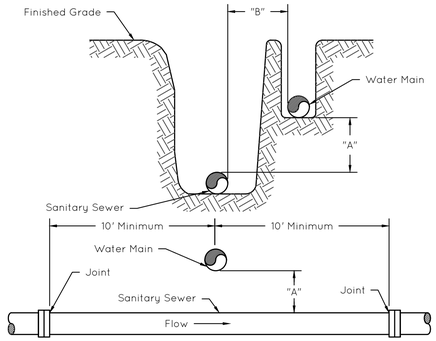


Notes:

1) Concrete shall be high-early yield and shall not be backfilled until Engineer deems the concrete adequately cured.
2) To be used when cover over top of pipe is 3-4 feet, per Engineer's direction, or where noted on the construction plans.

CONCRETE ENCASEMENT

Not to Scale



IF "A" IS	IF "B" IS	THEN SANITARY SEWER PIPE SEGMENT SHALL BE
18" or More	10' or More	No Special Pipe Material or Grade Requirments
Less Than 18"	Less Than 10'	PVC (Either ASTM D 2241 (SDR 21 Minimum) or ANSI/AWWA C900 (DR 18 Minimum) or ANSI/AWWA C905 (DR 21 Minimum)) or Ductile Iron (Class 51 Minimum)

Notes:

1) Water mains shall not be located in the same trench as sanitary sewers.
2) Separation distances from water supplies and pipe classifications shall conform to Indiana State Board of Health's "On-Site Water Supply and Wastewater Disposal for Public and Commercial Establishments - Bulletin S.E. 13".

WATER SUPPLY & SEWER CROSSING

Not to Scale

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1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

SANITARY SEWER PIPE BEDDING & CROSSING DETAILS

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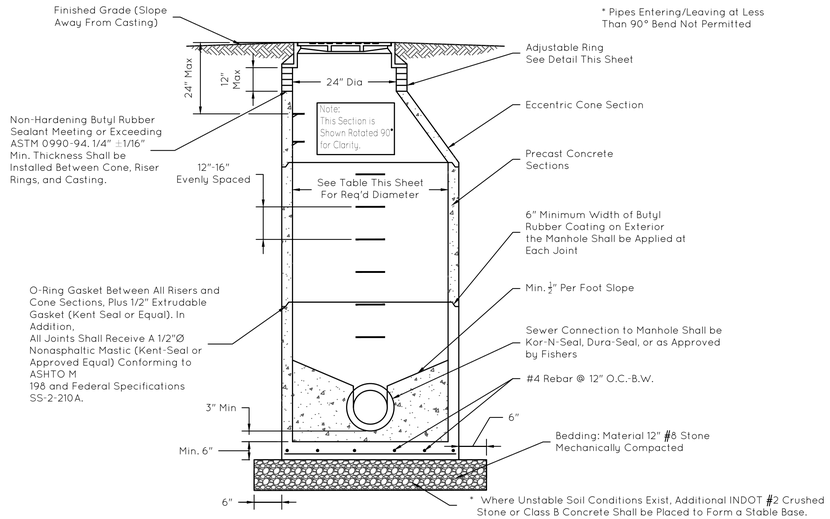
MANHOLE DIAMETERS

Pipe Size	Pipes Entering/Leaving at *45°-90°
8"-24"	48"
27"-30"	60"

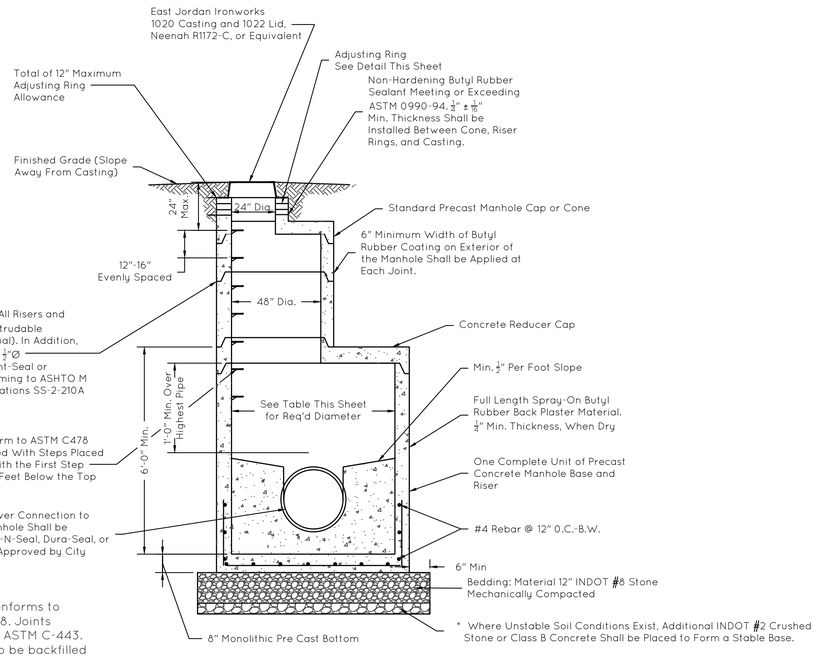
* Pipes Entering/Leaving at Less Than 90° Bend Not Permitted



Flow channels within manholes shall be an integral part of the precast base. The channels shall be shaped and formed for a clean transition with proper hydraulics to allow the smooth conveyance of the flow through the manhole. The bench wall shall be formed to the crown of the inlet and outlet pipes to form a "U" shaped channel. The bench wall shall slope back from the crown at 1/2" per foot to the manhole wall.

STANDARD MANHOLE FOR PIPE SIZES 8" THRU 24"

Not to Scale

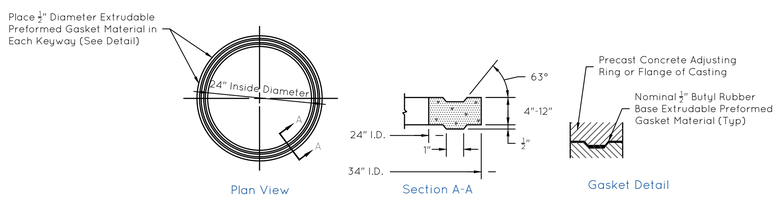


Notes:
1) Manhole conforms to ASTM C-478. Joints conform to ASTM C-443.
2) Manholes to be backfilled with INDOT #53 or INDOT #8 Crushed Stone.

Flow channels within manholes shall be an integral part of the precast base. The channels shall be shaped and formed for a clean transition with proper hydraulics to allow the smooth conveyance of the flow through the manhole. The bench wall shall be formed to the crown of the inlet and outlet pipes to form a "U" shaped channel. The bench wall shall slope back from the crown at 1/2" per foot to the manhole wall.

STANDARD MANHOLE FOR PIPE SIZES 27" THRU "30"

Not to Scale



ADJUSTING RING

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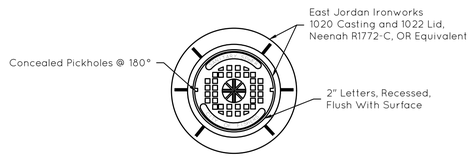

FRAME AND COVER

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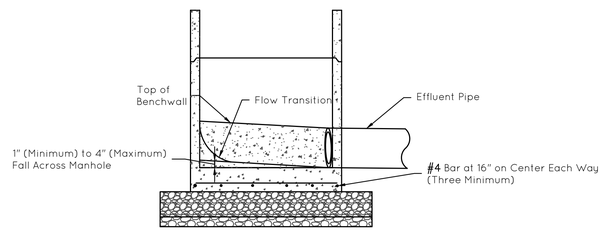

TERMINATION MANHOLE

Not to Scale

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CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

SANITARY SEWER STRUCTURE DETAILS

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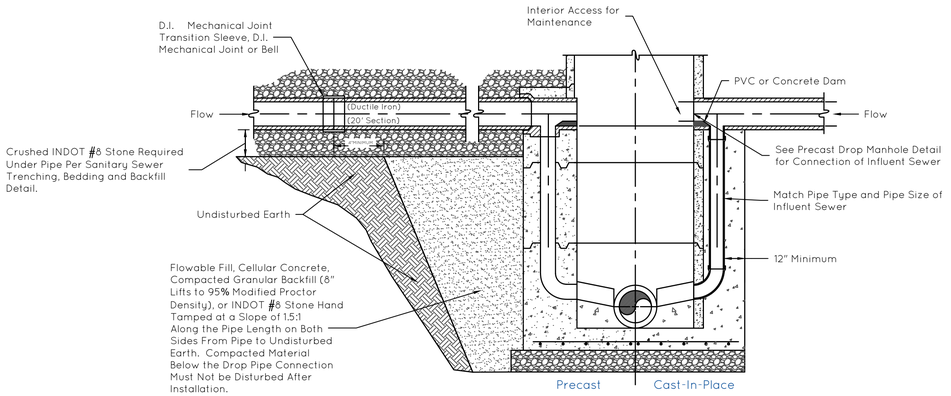
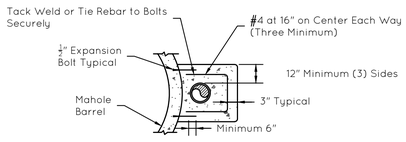


TYPICAL EXTERIOR DROP MANHOLE

Not to Scale



DROP SECTION

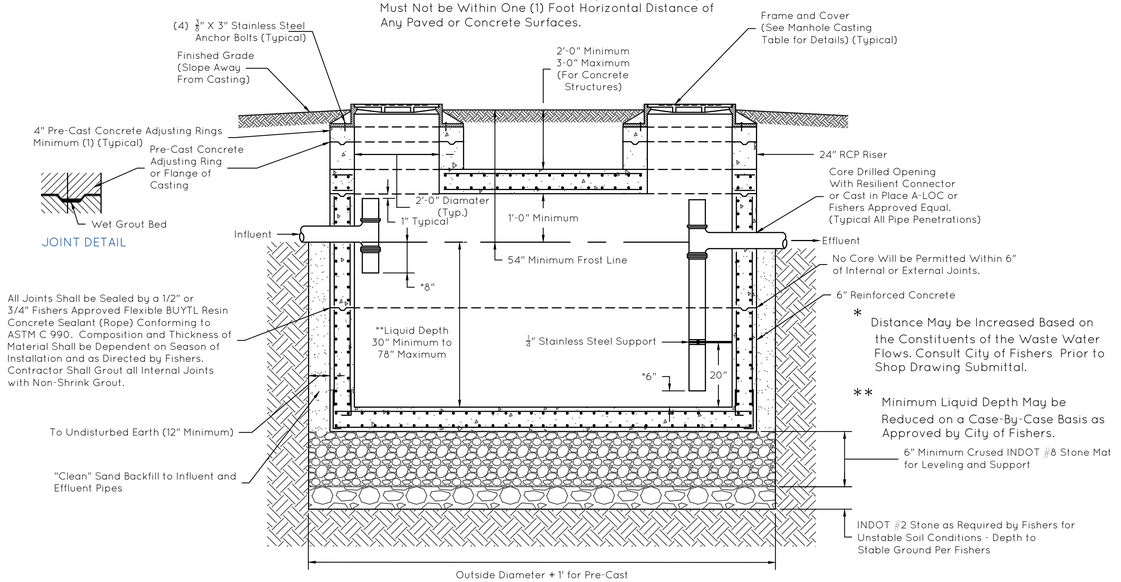
Not to Scale

MANHOLE CASTING TABLE		
LOCATION	MODEL	COVER
18" Inches or More Above 100 Year Flood Elevation of All Waterway	East Jordan 1060-Z1 or Neenah R-1712-B OR Equivalent	Heavy Duty Solid
Less Than 18" Above 100 Year Flood Elevation of All Waterways	East Jordan 1050-Z1WT OR Neenah R-1916-E OR Equivalent	Heavy Duty Solid
LID		
OWNERSHIP	LETTERING	
Private or Fishers	"Sanitary Sewer"	

All Castings to be Supplied With Four (4) Anchor Bolt Holes

Notes:
1) Grease Trap Shall Conform to ASTM C 478 Utilizing 4,000 PSI Concrete. Contractor May Supply Grease Trap as Manufactured by ZURN Series Z-1170 or Jay R. Smith Manufacturing Company Series 8000.
2) Exterior Installation Must be Concrete or Cast Iron. Steel Grease Traps Shall Only be Installed Inside a Building.

Note:
Top of Casting Shall Extend 0.20 Feet Minimum Above Finished Grade. Unless Approved by Fishers, Castings Must Not be Within One (1) Foot Horizontal Distance of Any Paved or Concrete Surfaces.



Notes:
1) Exterior grease traps must be sized according to the Indiana State Department of Health, Environmental Public Health Division Rule 410 IAC 6-10.1, "Commercial On-Site Sewage Systems" and per local requirements and codes. The sizing method for all structures must be approved by City of Fishers.
2) Top of casting shall extend 0.20 feet minimum above finished grade. Unless approved by City of Fishers, castings must not be within one (1) foot horizontal distance of any paved or concrete surfaces.
3) Shop drawings must be submitted to City of Fishers for review and approval.
4) Alternate equivalent must be approved by Director of Public Works.

EXTERIOR GREASE INTERCEPTOR

Not to Scale

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1/18/2022

JASON M. TAYLOR REGISTERED No PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

SANITARY SEWER STRUCTURE DETAILS

SHEET
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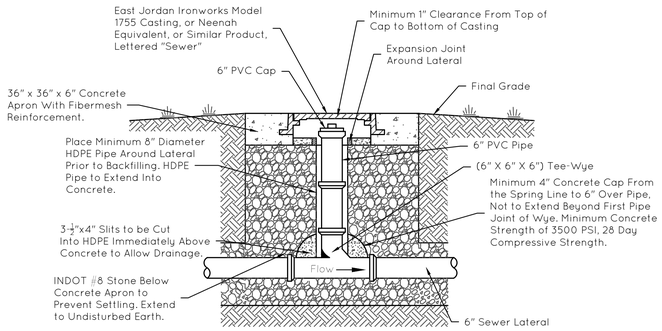
Note:
Concrete apron and casting shall be installed so that they do not contact the lateral or lateral cap.

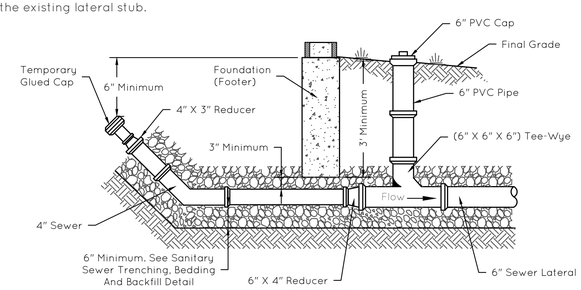


CLEANOUT TYPE 2

(Hardscape Surfaces and All Other Installations Beyond Three Feet of Building)

Note:
All slab and crawl space connections must be a minimum of 3" below the footer and exit the building at the front of the structure to provide the shortest, most direct route from the building to the existing lateral stub.

Note:
Lateral contractor to install in top of cleanout cap a 1-1/2" x 1/4" Mag Nail as manufactured by CHRISNIK, Inc. of Cincinnati, Ohio and sealed with exterior clear silicone sealant.



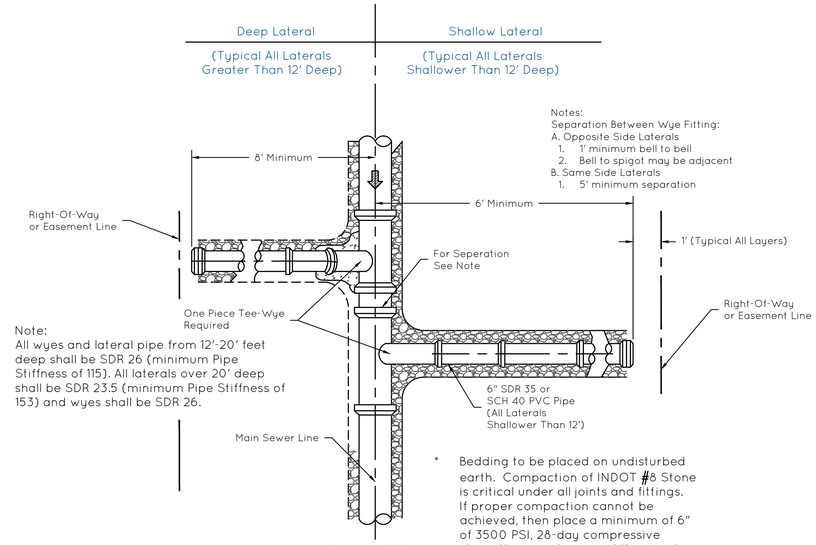
CLEANOUT TYPE 1

(Only Landscaped Surfaces Within Three Feet of Building)

Notes:
1) Top of casting or cleanout cap shall extend 0.20 feet minimum above finished grade unless constructed within pedestrian or vehicular traffic way. Unless approved by Engineer, sanitary sewer castings or cleanouts must not be within one (1) foot horizontal distance of any paved or concrete surfaces.
2) All cleanout pipes and fittings to be PVC Schedule 40 or SDR 35 when shallower than twelve (12) feet. At depths greater than twelve (12) feet, material of construction will be determined by Engineer.

TYPICAL CLEANOUTS

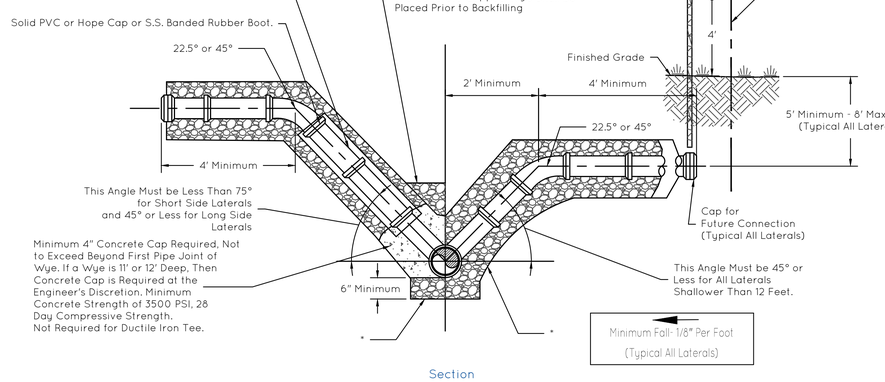
Not to Scale



Note:
All wyes and lateral pipe from 12'-20' feet deep shall be SDR 26 (minimum Pipe Stiffness of 115). All laterals over 20' deep shall be SDR 23.5 (minimum Pipe Stiffness of 153) and wyes shall be SDR 26.

* Bedding to be placed on undisturbed earth. Compaction of INDOT #8 Stone is critical under all joints and fittings. If proper compaction cannot be achieved, then place a minimum of 6" of 3500 PSI, 28-day compressive strength concrete around the pipe to bear on stable ground (per Engineer).

PLAN VIEW



Section

Notes:
1) Depth of service lateral shall be measured from finished grade to the top of main sewer line.
2) All piping from wye to 45°/22.5° fitting at 5'-8' below grade shall be SDR 26 to 20' deep or SDR 23.5 greater than 20' deep.
3) All lateral bedding shall be against undisturbed trench.

SERVICE LATERAL

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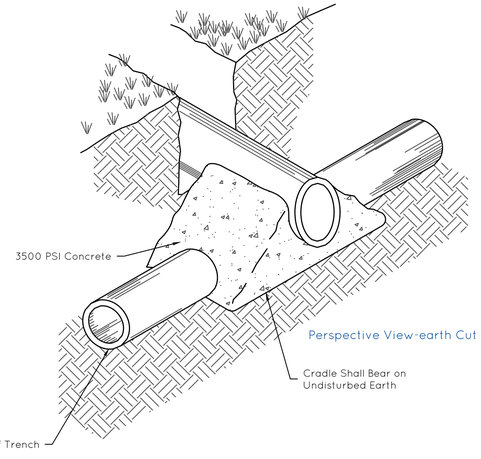

Note:
1) To be used when clear distance (from exterior pipe diameter to exterior pipe diameter) between sanitary sewer piping (mains, laterals, force mains, etc.) and all other pipes is 18" or less, per Engineer's direction, or where noted on the construction plans. A minimum clear distance of 3" must be provided to maintain structural integrity of the concrete. Concrete must not come into contact with force main. At least 3" of sand must be placed as a cushion around the force main. If the conflict is between a water main and any sanitary sewer piping, 18" clearance must be maintained, or note above applies and only granular fill may be used.

CONCRETE CRADLE

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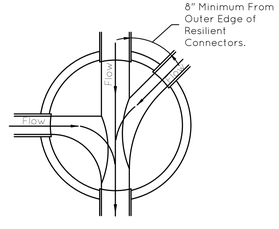

Note:
1) If manhole has only one (1) influent pipe which is approximately 90 degrees to effluent pipe, then contractor shall maintain a radiused channel of same width as influent pipe.
2) If separation is between 8" and 18", then additional reinforcement (rebar or mesh area) shall be increased as deemed necessary by Engineer,

FLOW CHANNEL

Not to Scale

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1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

SANITARY LATERAL CONNECTION, CLEAN OUT, & MISC. DETAILS

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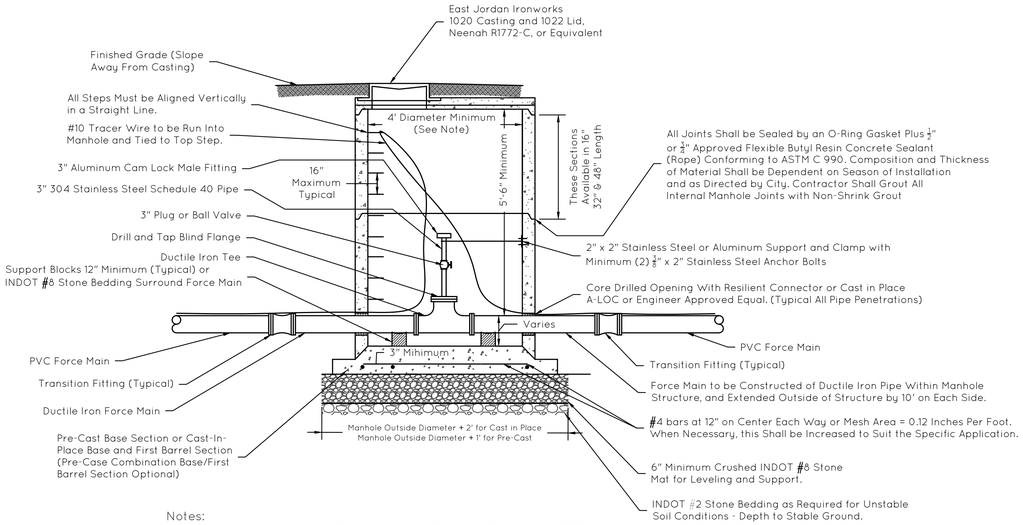
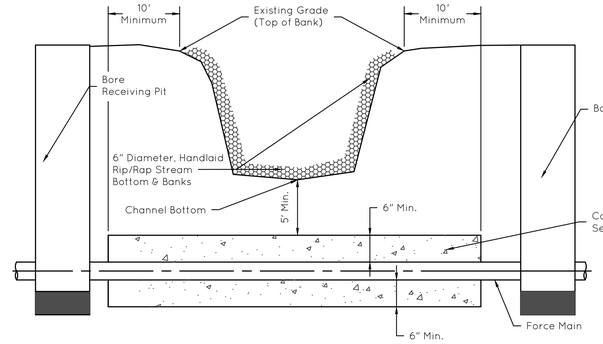


Notes:

1) Manhole sections shall conform to ASTM C 478 utilizing 4,000 psi concrete. Joints shall conform to ASTM C 443. Four (4) feet diameter manhole for 6" force main or smaller, or five (5) feet diameter manhole for 8" force main or larger.
2) Top of casting shall extend 0.20 feet minimum above finished grade.

FORCE MAIN CLEAN-OUT MANHOLE

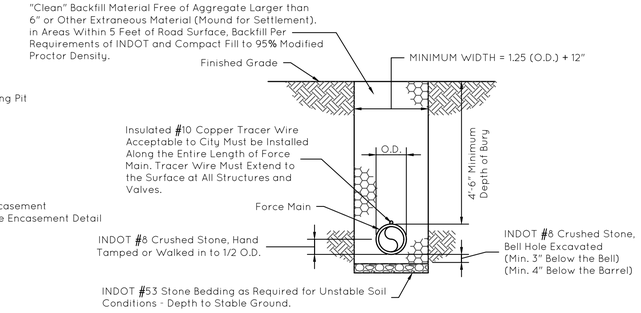
Not to Scale



STREAM CROSSING -FORCE MAIN

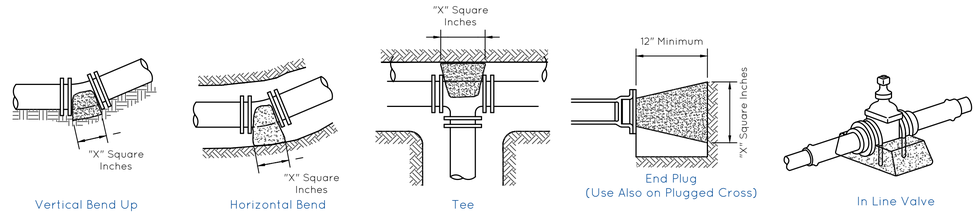
(Refer to Hamilton County Surveyors Detail)

Not to Scale



FORCE MAIN TRENCH

Not to Scale



Vertical Bend Up | Horizontal Bend | Tee | End Plug (Use Also on Plugged Cross) | In Line Valve

Notes:

1) Blocks designed for 100 psi pressure, for higher pressures contact City of Fishers.
2) Vertical bends downwards (3" and greater) shall be individually designed using flanged or restrained joints.
3) Concrete for thrust blocks to be 3750 psi laid to undisturbed bearing wall of the trench in the form of a wedge with the wide end against the trench wall.
4) Thrust blocking is required for all force main locations where the main changes direction by 11.25° or more.

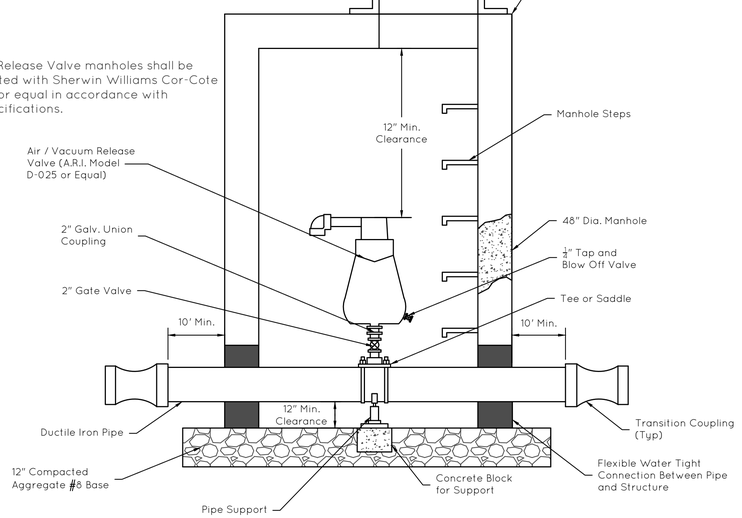
FORCE MAIN THRUST BLOCKING

Not to Scale

SIZE OF THRUST BLOCK IN SQUARE INCHES																					
Type of Soil	1/32 (11-1/4") & 1/16 (22 1/2") Bend					1/8 (45°) Bend					1/4 (90°) Bend					Tee & End Plug					In Line Valve
	1.5"	2"	2.5"	3"	4"	1.5"	2"	2.5"	3"	4"	1.5"	2"	2.5"	3"	4"	1.5"	2"	2.5"	3"	4"	Coordinate With Engineer
Loose Sand & Gravel, Soft Clay	20	30	40	60	100	40	60	80	110	190	70	100	140	210	340	50	70	100	150	240	
Compacted Sand & Gravel, Dense Silt, Firm Till & Stiff Clay	10	20	20	30	50	20	30	40	60	100	40	50	70	110	170	30	40	50	80	120	
Very Stiff Clay, Dense Till, Shale or Rock	10	10	20	20	40	20	20	30	40	70	30	40	50	70	120	20	30	40	50	80	

Note:

1) Air Release Valve manholes shall be coated with Sherwin Williams Cor-Cote SC or equal in accordance with specifications.



TYPICAL AIR RELEASE VALVE WITH CONNECTION

Not to Scale

DUCTILE IRON PIPE SIZE	DEPTH OF COVER(INVERT TO FINAL GRADE)	THICKNESS CLASS
6" - 8"	Up to 20 Feet Over 20 Feet Contact Engineer	Class 50
10" - 12"	Up to 20 Feet Over 20 Feet Contact Engineer	Class 51
14" - 16"	Up to 20 Feet Over 20 Feet Contact Engineer	Class 52
18" - 20"	Up to 20 Feet Over 20 Feet Contact Engineer	Class 54
24"	Up to 20 Feet Over 20 Feet Contact Engineer	Class 55
Greater Than 24" Diameter	Greater Than 20 Feet Deep	Contact Engineer (Either Case)
NOTE: No Pressure Rated Pipe Will be Permitted		

Note:

1) Manhole sections shall conform to ASTM C 478 utilizing 4,000 psi concrete. Joints shall conform to ASTM C 443. Four (4) feet diameter manhole for 6" force main or smaller, or five (5) feet diameter manhole for 8" force main or larger.

THESE SANITARY SEWER DETAILS AND FISHERS SANITARY SEWER SPECIFICATIONS ARE COMPLEMENTARY IN NATURE AND SHOULD NOT BE INTERPRETED INDIVIDUALLY WITHOUT REFERENCE TO THE OTHER.

1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

SANITARY SEWER FORCE MAIN DETAILS

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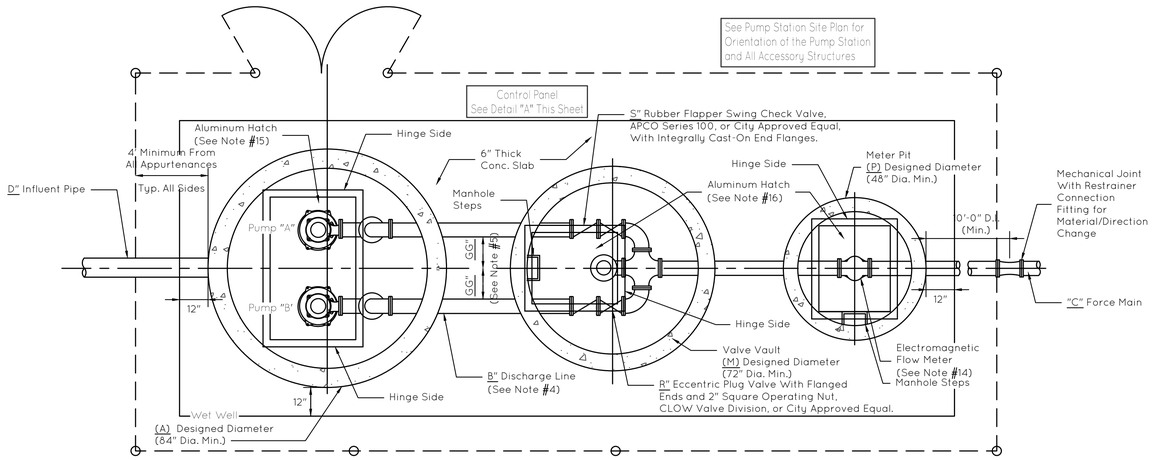
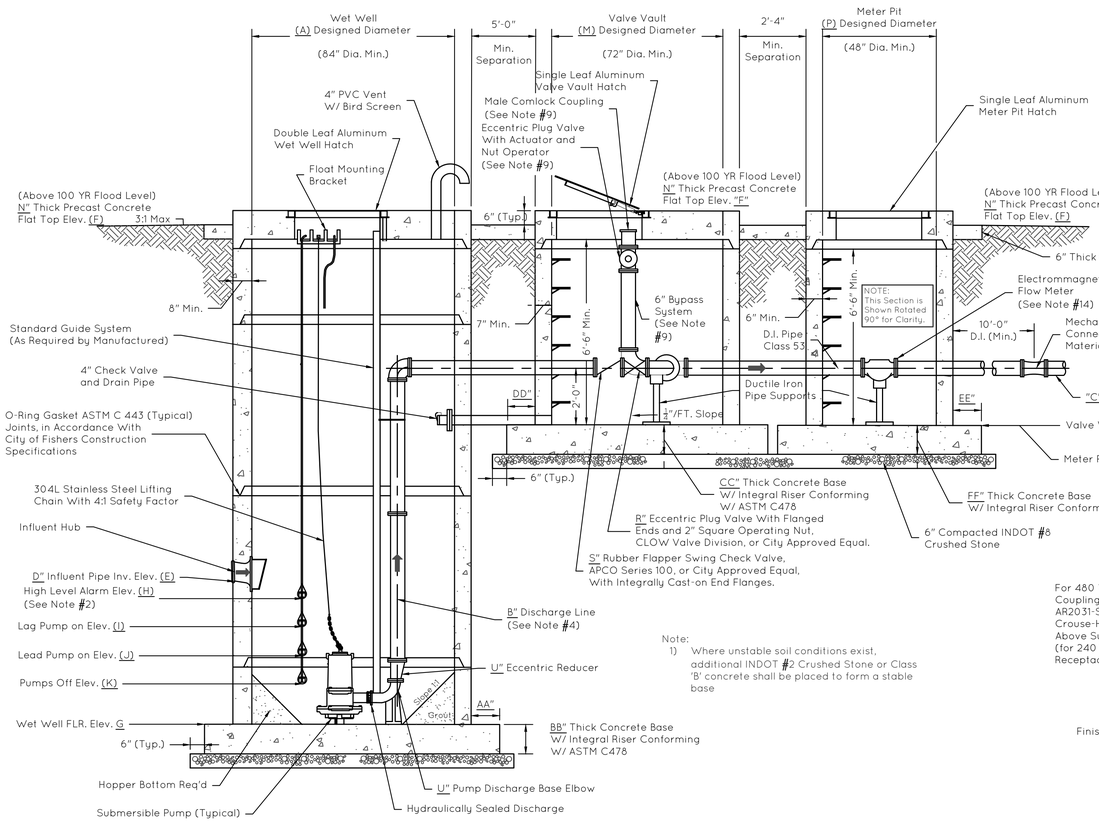
NOTE: *ONLY FOR LIFT STATIONS COVEYED TO FISHERS*



PLAN VIEW
Not to Scale



Note:
1) Where unstable soil conditions exist, additional INDOT #2 Crushed Stone or Class 'B' concrete shall be placed to form a stable base

SECTION VIEW
Not to Scale

THESE SANITARY SEWER DETAILS AND FISHERS SANITARY SEWER SPECIFICATIONS ARE COMPLEMENTARY IN NATURE AND SHOULD NOT BE INTERPRETED INDIVIDUALLY WITHOUT REFERENCE TO THE OTHER.

SUBMERSIBLE PUMP STATION SCHEDULE

DESCRIPTION	SYMBOL	DATA (1)	ADDITIONAL INFORMATION
Pump Model Number			
Pump Capacity - GPM Each			
Total Dynamic Head - FT.			
Pump Discharge Size Ø			
Motor H.P.			
Motor RPM			
Wet Well Diameter	A		
Discharge Pipe Diameter	B		
Force Main Diameter	C		
Gravity Influent Pipe Diameter	D		
Gravity Influent Inv. EL. - FT.	E		
Wet Well, Valve Vault, & Meter Pit Top of Str. EL.	F		
Wet Well Floor EL.	G		
High Water Alarm EL. Level	H		
Lag Pump Start EL. Level	I		
Lead Pump Start EL. Level	J		
Pumps Off EL. Level	K		
(Not Used)	L		
Valve Vault Diameter	M		
Precast Concrete Flat Top (Min. 12")	N		
Valve Vault Floor EL.	O		
Meter Pit Diameter	P		
Meter Pit Floor EL.	Q		
Plug Valve	R		
Check Valve	S		
(Not Used)	T		
Eccentric Reducer	U		
Discharge Elbow Size	V		
Design Engineer to Set Dimension, Supported by Buoyancy Calculations	AA		
Design Engineer to Set Dimension, Supported by Buoyancy Calculations	BB		
Design Engineer to Set Dimension, Supported by Buoyancy Calculations	CC		
Design Engineer to Set Dimension, Supported by Buoyancy Calculations	DD		
Design Engineer to Set Dimension, Supported by Buoyancy Calculations	EE		
Design Engineer to Set Dimension, Supported by Buoyancy Calculations	FF		
Spacing Between Discharge Piping	GG		

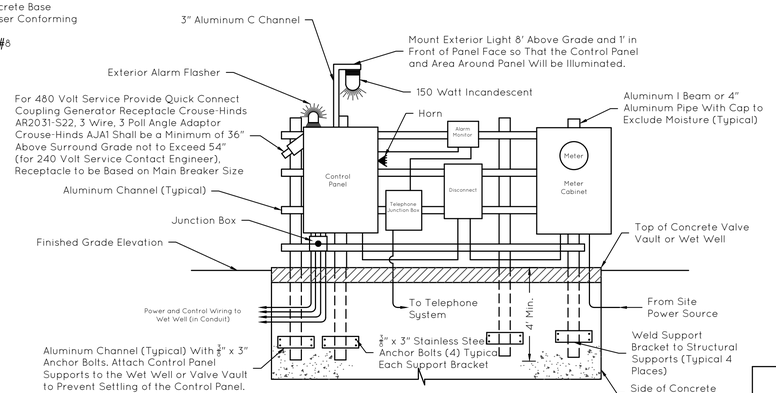
Design Engineers Certification of Actual Pump Station Dimensions, Control Settings, & Pump Selection as Indicated on Pump Station Schedule.

DATE _____

Notice:
This certification is limited to those standards and guidelines per this sheet, and does not include information written into Pump Station Schedule. Construction is subject to construction drawings, shop drawings, and Design Engineer's design data written into Pump Station Schedule, and its certification thereof.

Reminder - For Pump Station Site Plan Data Project Engineer Shall Provide:

1) Wet Well and Valve Vault Orientation
2) Control Panel Location
3) Fencing and Gate Locations
4) Asphalt Access Drive from Public Right-of-Way
5) Parking Stops
6) Grading and Drainage Arrows
7) Boundary of Pump Station Parcel to be Granted to Fishers'
8) Area for Emergency Generator
9) All Other Information That Will Allow for a Detailed Review of the Site Plan



Note:
1) All Enclosures to be Weather Proof Nema Type 4x Fabricated of 14 Gauge 304 Stainless Steel.

CONTROL PANEL DETAIL "A"
Not to Scale

1/18/2022

STANDARD PUMP STATION NOTES

1) Actual pump station dimensions, control settings, and pump selection to be as indicated by the design engineer's certification of the data written into the Submersible Pump Station Schedule, this sheet.
2) High level alarm elevation shall be set at least 6" below the lowest incoming gravity pipe.
3) Glycerin-filled pressure gauges shall be provided as manufactured by Ashcroft, or equal. The gauges shall have an operating range appropriate for the system pressure and shall display in both feet and psi. Each gauge shall be provided with an in-line snubber and a shut-off valve. The pipe shall be drilled and tapped wherever possible.
4) Piping in and within the zone of influence of the excavation of the wet well, valve vault, and meter pit structure, shall be Class 53 flanged D.I. pipe or Class 50 D.I. pipe for direct bury. The minimum dimension for D.I. pipe outside of a structure is ten (10) feet. All fasteners within pump station structures, shall be 316 S.S.
5) Design engineer shall space discharge piping in accordance with pump and piping dimensions and pump manufacturer's recommendations.
6) Piping and fittings in wet well, valve vault, and meter pit shall be in accordance with City of Fishers construction specifications.
7) Butyl rubber shall be applied to all exterior structure joints that are below grade. The Butyl rubber shall extend six (6) inches above and below the joint.
8) Pump Station wet well, valve vault, and meter pit manholes shall be pre-cast concrete in accordance with ASTM C-478, with rubber gaskets, in accordance with the City of Fishers Construction Specifications.
9) Comlock coupling and eccentric plug valve on by-pass line shall be 6 inch diameter with transition to force main size occurring with concentric reducer placed on the top of base elbow. The plug valve's operating nut shall be directly accessible with a standard tee wrench. Show location on the structure layout sketch required in Note 15.
10) Sewer connections and force main penetrations of wet well, valve vault, and meter pit structure shall be KOR-N-SEAL, A-LOK, or Dura-Seal, in accordance with the City of Fishers Construction Specifications. Portland cement grout may be used to seal penetrations on non-sewer connections.
11) Generator receptacle, with factory sealed switch, shall match to receive of the City of Fishers' portable generator set.
12) Provide an Allen Bradley or "Engineer Approved" SCADA System that incorporates: 1 spare input/output, 1 input for flowmeter 4-20mA signal, 5 outputs to control being lead remote on, lead remote off, lag remote on, lag remote off and remote alarm acknowledge, and 10 inputs from control being hatch(es) open alarm, panel(s) open alarm, Pump "A" on, Pump "B" on, Pump "A" fail, Pump "B" fail, phase fail alarm, power fail alarm, high water alarm and pump(s) seal failure, remote lead pump override and remote lag pump override.
13) Electromagnetic Flowmeter shall be a Siemens series 5100W or "Engineer Approved", flanged, with remote transmitter and accidental submergence kit. Interconnecting cable for power to transmitter shall be provided of appropriate length for application. Flowmeter transmitter shall be integral mounted and shall produce a 4-20mA signal for use by the SCADA System. Flowmeter size shall be based upon the projected flow through the force main, the force main size, and per the manufacturer's recommendation for highest accuracy over the operational range of the lift station.
14) Provide an aluminum double-door access hatch and frame assembly with safety man catches for pump station wet well to be installed in concrete top. Pump manufacturer shall size door opening in order to facilitate ease in removing pumps from wet well. Contractor and pump manufacturer shall coordinate to match size and location of opening in concrete top to dimensions of hatch provided by pump manufacturer.
15) Provide an aluminum single-door access hatch and frame assembly with safety man catches for valve vault and meter pit, respectively, to be installed in concrete top. The contractor and pump manufacturer shall provide a dimensionally accurate sketch of the valve vault and meter pit showing all valves, piping, and equipment to confirm the proper location and size of the access hatch for the structure.

Notes:
1) See Fishers' Pump Station and Force Main Specifications Sheet for details of equipment.
2) This plan is for design purposes only.
3) Access drive from nearest public Right-of-Way to pump station must be provided.
4) The access drive must have a minimum of 14 feet of clearance from all utility or power poles.
5) All station piping must be Ductile Iron.
6) A "live" yard hydrant shall be installed inside fence area (if possible) and close to fence, to provide water service for pump station maintenance purposes. Backflow preventer as required by water company

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

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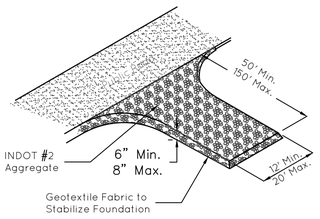
SANITARY SEWER DUPLEX PUMP STATION DETAILS AND NOTES

GENERAL SWWP NOTES FOR INDIVIDUAL LOTS

1) All storm water quality measures, including erosion and sediment control, necessary to comply with the requirements for 327 IAC 15-5, Rule 5, City of Fishers, and/or general construction practices must be implemented in accordance with the plan and sufficient to satisfy Chapter 7 of the City of Fishers STSM.
2) Provisions for erosion and sediment control on individual building lots regulated under the original permit of a project site owner must include the following requirements:
   2)1) The individual lot operator, whether owning the property or acting as the agent of the property owner, shall be responsible for erosion and sediment control requirements associated with activities on individual lots.
   2)2) Installation and maintenance of a stable construction site access.
   2)3) Installation and maintenance of appropriate perimeter erosion and sediment control measures prior to land disturbance.
   2)4) Sediment discharge and tracking from each lot must be minimized throughout the land disturbing activities on the lot until permanent stabilization has been achieved.
   2)5) Clean-up of sediment must be redistributed or disposed of in a manner that is in compliance with all applicable statutes and rules.
   2)6) Adjacent lots disturbed by an individual lot operator must be repaired and stabilized with temporary or permanent surface stabilization.
3) In accordance with Chapter 7 of the City of Fishers STSM, final stabilization of an individual lot project site is achieved when:
   3)1) All land disturbing activities have been completed
   3)2) The establishment, at a uniform density of seventy percent (70%) across one-hundred percent (100%) of the disturbed area, of vegetative cover or permanent non-erosive material that will ensure the resistance of the soil to erosion, sliding, or other movement.

CONSTRUCTION SEQUENCE FOR INDIVIDUAL LOTS

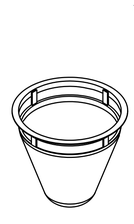
1) Clearly delineate areas of trees, shrubs, and vegetation that are to be undisturbed. To prevent root damage, the areas delineated for tree protection should be at least the same diameter as the crown.
2) Install perimeter silt fence at construction limits. Position the fence to intercept runoff prior to entering drainage swales.
3) Avoid disturbing drainage swales if vegetation is established. If drainage swales are bare, install erosion control blankets or sod to immediately stabilize.
4) Install appropriate inlet protection for all inlets on the property.
5) Install curb inlet protection, on both sides of the road, for all inlets along the property frontage and along the frontage of adjacent lots, or install temporary catch basin inserts in each inlet and frequently clean.
6) Install gravel construction entrance flush with the back of existing curb, extending from the street to the building pad.
7) Perform primary grading operations.
8) Contain erosion from any soil stockpiles created on-site with silt fence around the base.
9) Establish temporary seeding and straw mulch on disturbed areas.
10) Construct the home and install utilities.
11) Install downspout extenders once the roof and gutters have been constructed. Extenders should outlet to a stabilized area.
12) Re-seed any areas disturbed by construction and utilities installation with temporary seed mix that will be left inactive for seven (7) days.
13) Grade the site to final elevations. Add topsoil as needed to minimize erosion of underlying soil and to quickly establish grass.
14) Install permanent seeding or sod.



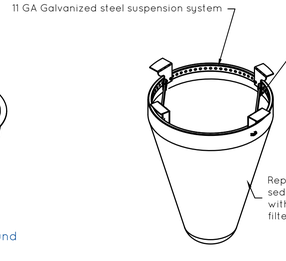
Notes:
1. Must keep top of stone at road elevation.
2. Width to be adjusted to match wider entrance, if required.

Site Size	Entrance Width	Entrance Length	Stone Depth
Less than 2 acres	12' min	50' min	6" min
2 acres or more	20' min	150' min	8" min

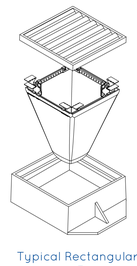
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
Not to Scale



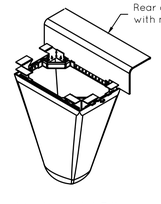
Stainless Steel Round Inlet Filters



Typical Round Inlet Filter



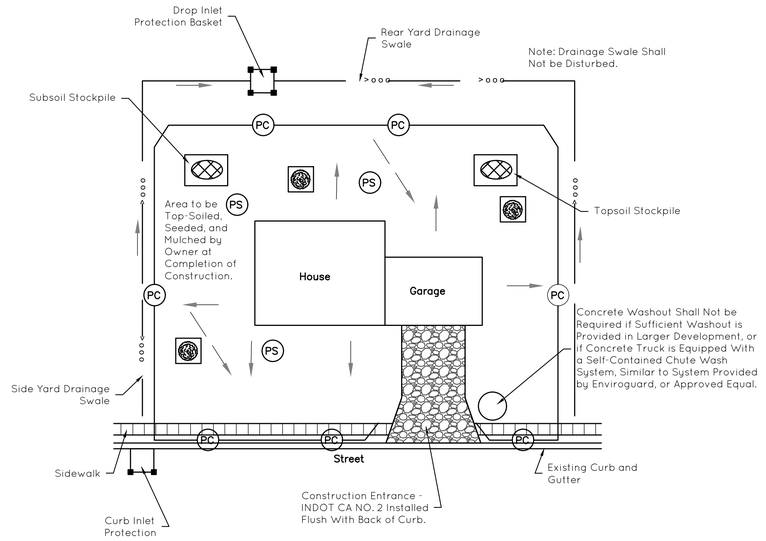
Typical Rectangular Inlet Filter



Combination Inlet Filter for Curb Hoods

Note:
1) Measures to be used in accordance with manufacturer's stated installation and maintenance specifications, and limitations

BASKET INLET PROTECTION
Not to Scale

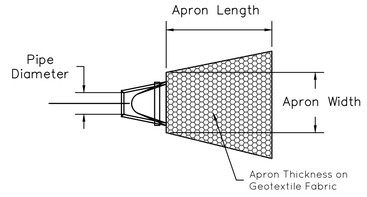


SAMPLE EROSION / SEDIMENT CONTROL PLAN
ONE OR TWO-FAMILY DWELLING UNDER CONSTRUCTION
Not to Scale

Notes:
1) Erosion/ sediment control measures must be functional and be maintained throughout construction.
2) Maintain positive drainage away from the structure.
3) Perimeter protection should be installed before excavation of basement/foundation has begun. Perimeter protection on lots shall remain in place until the lot is stabilized, meeting the cover requirements of IDEM and City of Fishers.
4) All trash and construction debris shall be disposed properly into an enclosed waste receptacle.
5) Street to be cleaned at the end of every work day, at a minimum, or more frequent if needed.
6) Erosion control blanket must be used on rear yards where slopes exceed 3:1 in lieu of silt fence.

INDIVIDUAL LOT EROSION CONTROL PLAN LEGEND

- Property Line/ Drainage Swale
- Existing Drainage
- Finished Drainage
- Tree Conservation With Fencing at Drip Line
- PC — Perimeter Control (SILT Fence, Etc.)
- Temporary Construction Ingress/Egress Pad
- Basket Inlet Protection (Combination Inlet Filter for Curb Hoods)
- Drop Fabric or Basket Inlet Protection
- Topsoil / Subsoil Stockpile
- PS — Permanent Seeding / Sod



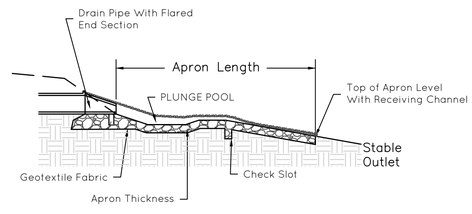
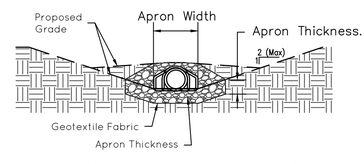


Table 1. Sizing for Flow Dissipaters at end Sections[1]

PIPE SIZE	AVG. RIPRAP DIAMETER	APRON[2] WIDTH	APRON[3] LENGTH
8 in.	3 in.	2 to 3 ft.	5 to 7 ft.
12 in	5 in.	3 to 4 ft.	6 to 12 ft.
18 in.	8 in.	4 to 6 ft.	8 to 18 ft.
24 in.	10 in.	6 to 8 ft.	12 to 22 ft.
30 in.	12 in.	8 to 10 ft.	14 to 28 ft.
36 in.	14 in.	10 to 12 ft.	16 to 32 ft.

1-For Larger or Higher Flows Consult a Registered Engineer
2-Apron Width at the Narrow End of Apron (Pipe or Channel Outlet)
3-Select Length Taking Into Consideration the Low Flow (Nor Pressure Head) or High Flow (Pressure Head) Conditions of the Culvert Pipe.



Apron Thickness = 1.2 Times the Max Stone Diameter for a D50 Stone Size of 15 Inches or Larger
Apron Thickness = 1.5 Times the Max Stone Diameter for a D50 Stone Size of 15 Inches or Less

ENERGY DISSIPATER (OUTLET PROTECTION)
Not to Scale

1/18/2022

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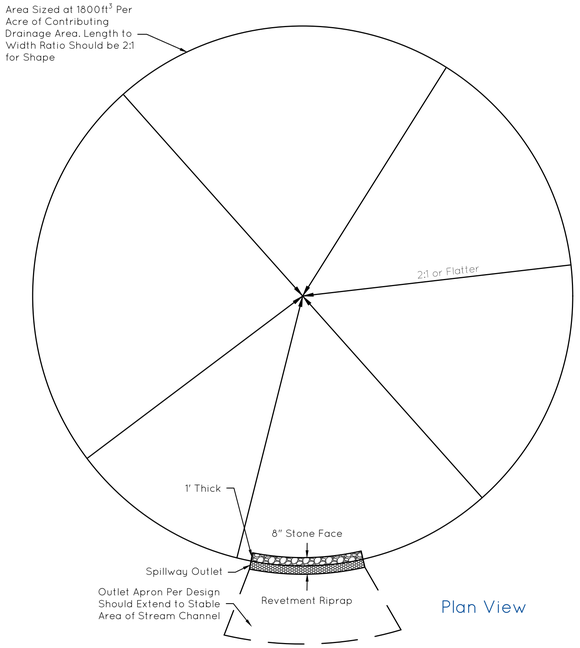
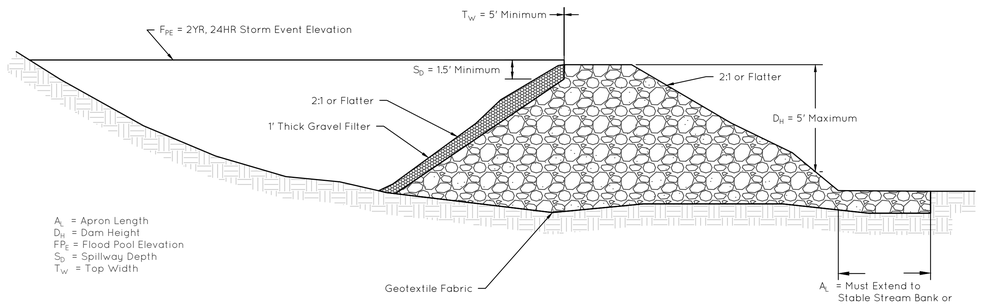
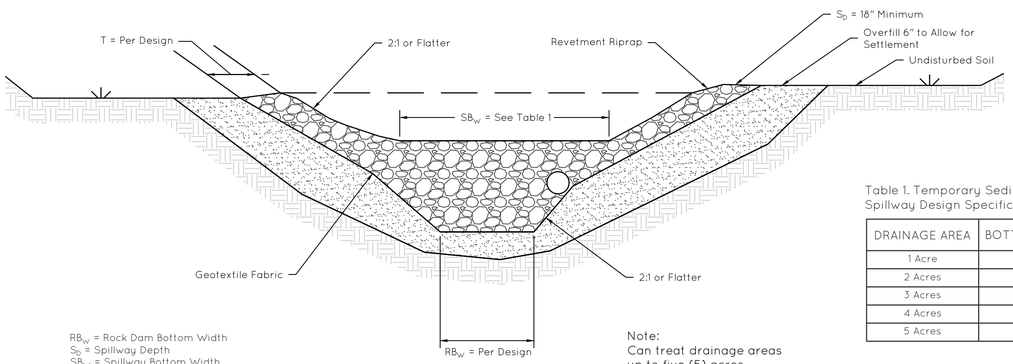


Plan View



Profile View



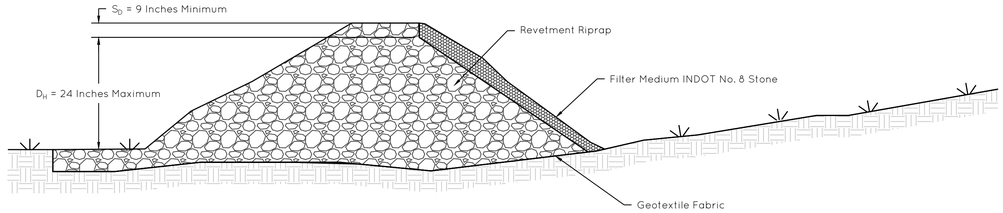
Cross-Section View

Table 1. Temporary Sediment Trap Spillway Design Specifications

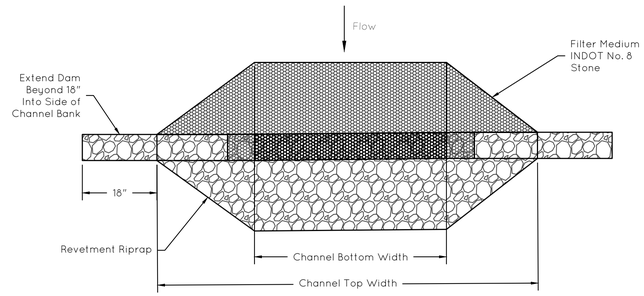
DRAINAGE AREA	BOTTOM WIDTH
1 Acre	4 Feet
2 Acres	6 Feet
3 Acres	8 Feet
4 Acres	10 Feet
5 Acres	12 Feet

Note:
Can treat drainage areas up to five (5) acres

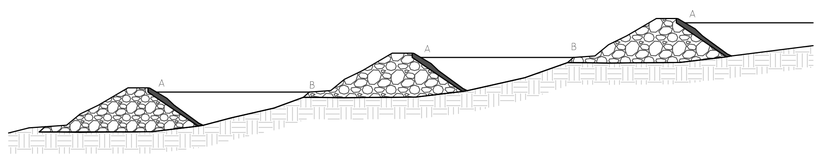
TEMPORARY SEDIMENT TRAP
Not to Scale



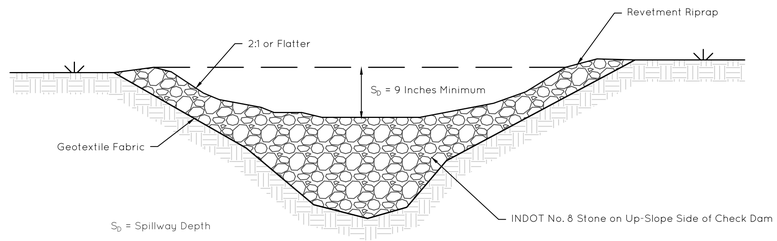
Profile View



Plan View



Profile View



Cross Section View

TEMPORARY ROCK CHECK DAM
Not to Scale

1/18/2022

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CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

EROSION CONTROL DETAILS

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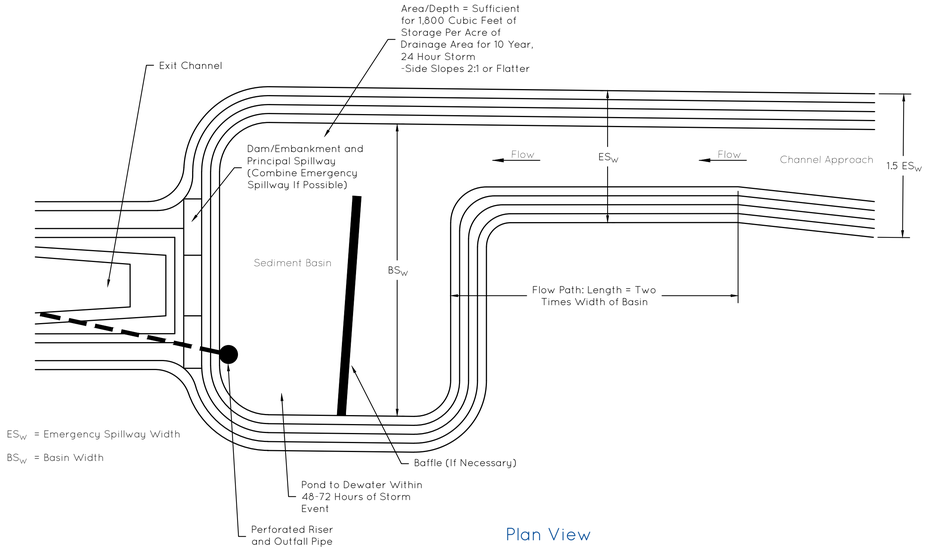
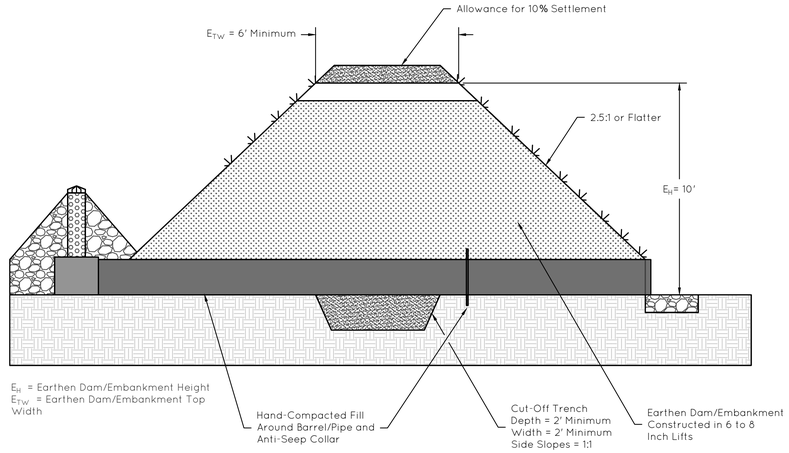


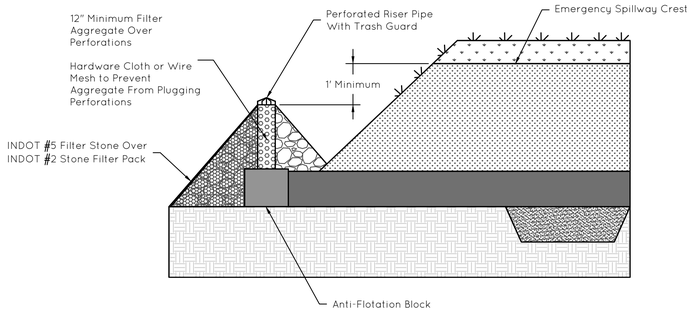
Plan View



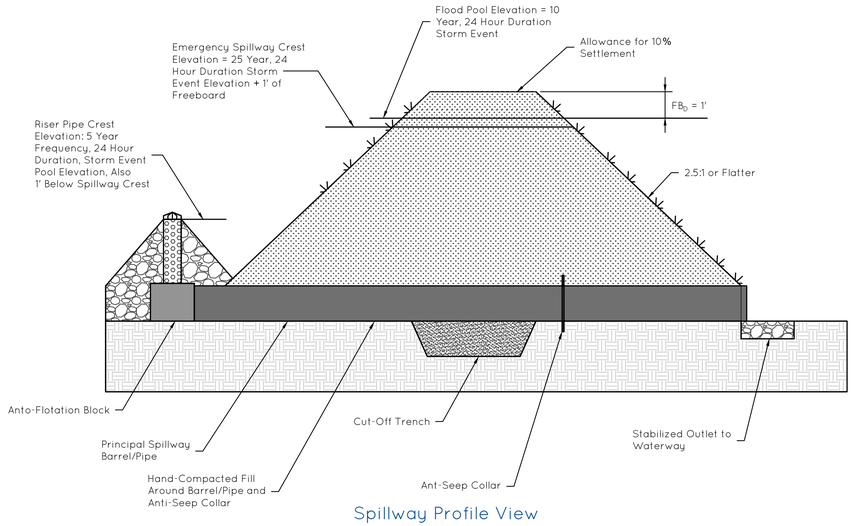
Earthen Dam/Embankment Profile View

TEMPORARY SEDIMENT BASIN

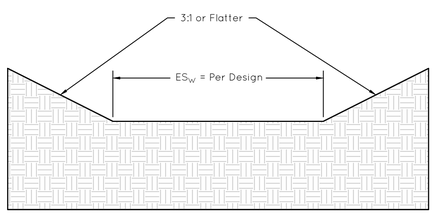
Not to Scale



Riser Pipe Profile View



Spillway Profile View



Spillway Cross Section View

1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

EROSION CONTROL DETAILS

SHEET

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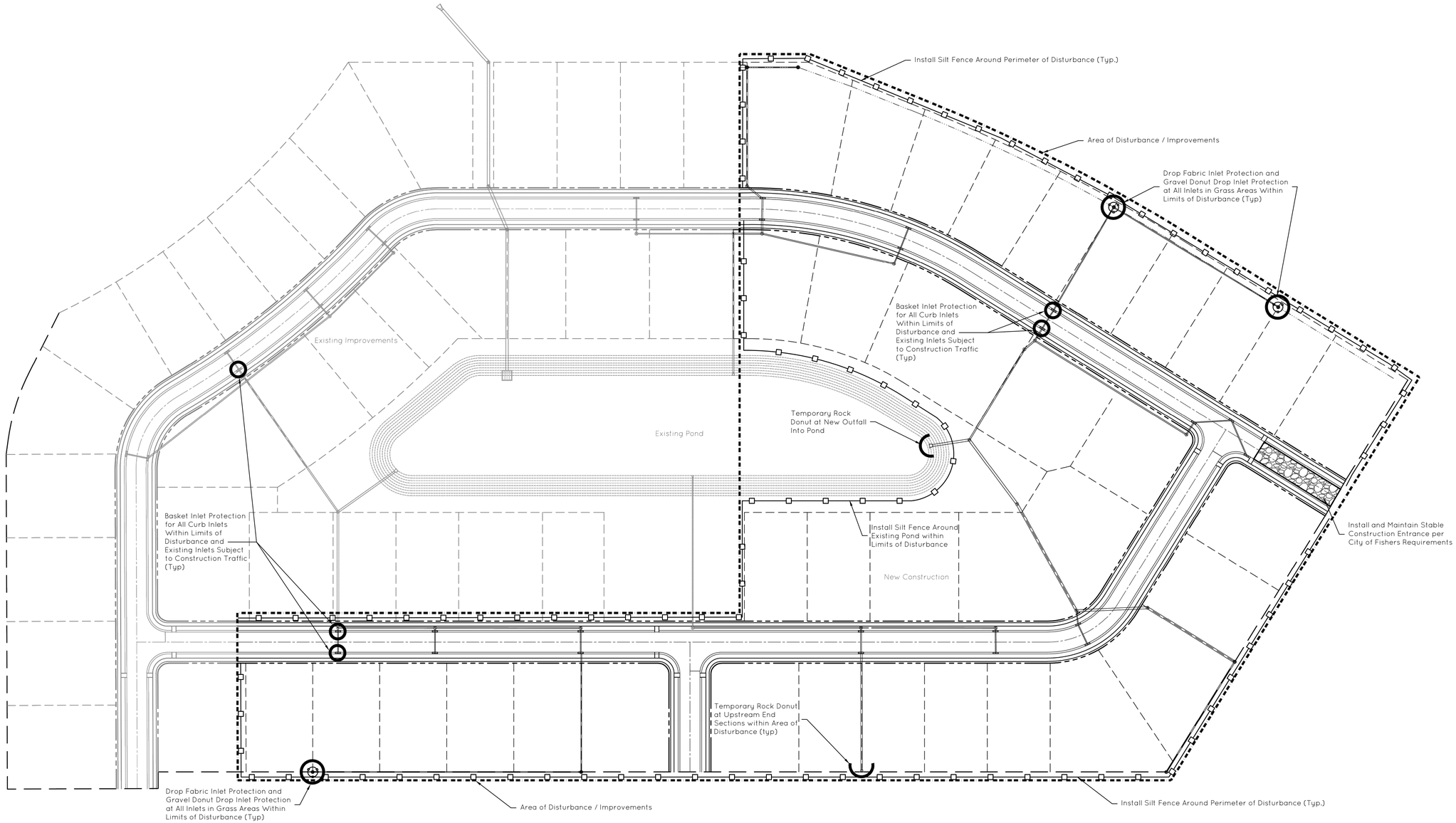

Notes:

1) Individual lot erosion control measures to be installed per details on Sheet 24, and in accordance with Indiana Stormwater Quality Manual.
2) Measures to be used in accordance with manufacturer's stated installation and maintenance specifications, and limitations.
3) Temporary and permanent stabilization to be installed as soon as possible. Re-seed any areas disturbed by construction and utilities installation that will be left inactive for seven (7) days with temporary seed mix.
4) Pond protection measures shown are example only. Additional measures may be required. Site specific SWPPP to be prepared and approved by the City of Fishers.

PROTECTION OF EXISTING DETENTION POND - EXAMPLE MEASURES

Not to Scale

1/18/2022

JASON M. TAYLOR REGISTERED No. PE11200277 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

EROSION CONTROL DETAILS

SHEET

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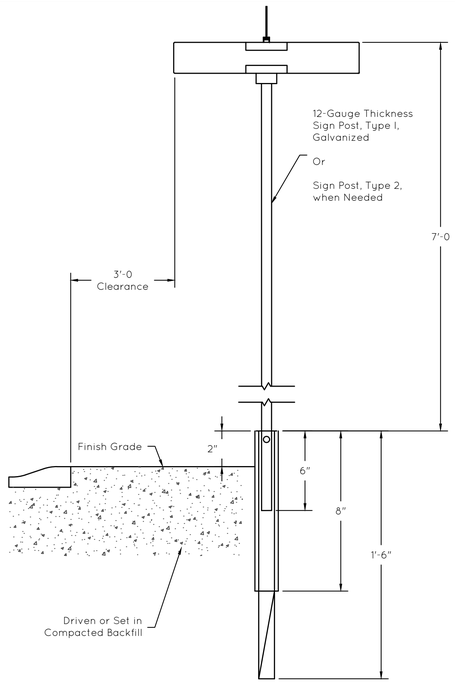


Notes:

1) Streets shall be signed per latest approved edition of IMUTCD.
2) Street name signs shall be 8" tall 0.1 gauge extruded aluminum sign blanks. The sign face material shall be Diamond grade retroreflective green background with white letters and shall be mix-cased in accordance with the IMUTCD.
3) All public regulatory street signs shall be diamond grade retroreflective background, including letters and border where appropriate.
4) Font and letter height shall be in accordance with IMUTCD and FHWA Standard Highway Signs.
5) Street signs shall have rounded corners and be tall enough to accommodate the above noted minimum letter heights.
6) Supr-lok cap shall be model #91UX-NU180 or equal. Supr-lok cross shall be model #990X or equal.
7) Street name signs shall be mounted on Type 1 or 2 12-gauge steel galvanized post. Whichever is required according to INDOT Standard Drawings.
8) Street name signs on roundabouts shall be on decorative 2 $\frac{3}{8}$" round post with finial, with Fishers Green finish, and with Z238 aluminum interlocking bracket set by Hall Signs or approved equal.
9) Private streets must include a vertical "PVT" symbol in 3" white lettering to the left of the street name.
10) Public street signs must include City of Fishers logo (does not have to be multi-colored) to the left of the street name.
11) Optional white privately owned/maintainted signs on public roads:
    11)1) White retroreflective background with black font may be used for street name signs, however, a maintenance agreement must be signed and submitted as these are considered privately owned and maintained signs. These signs will not be maintained by the City.
    11)2) The City of Fishers logo is still required to the left of the street name.
    11)3) No other logo or picture is permitted
12) Optional black/green or decorative post/poles on public roads:
    12)1) Any painted or coated street name or regulatory sign post/pole is permitted; however, a maintenance agreement must be signed and submitted as these are considered privately owned and maintained posts/poles. These posts/poles will not be maintained by the City.

STREET NAME AND PUBLIC STREET SIGNS

Not to Scale

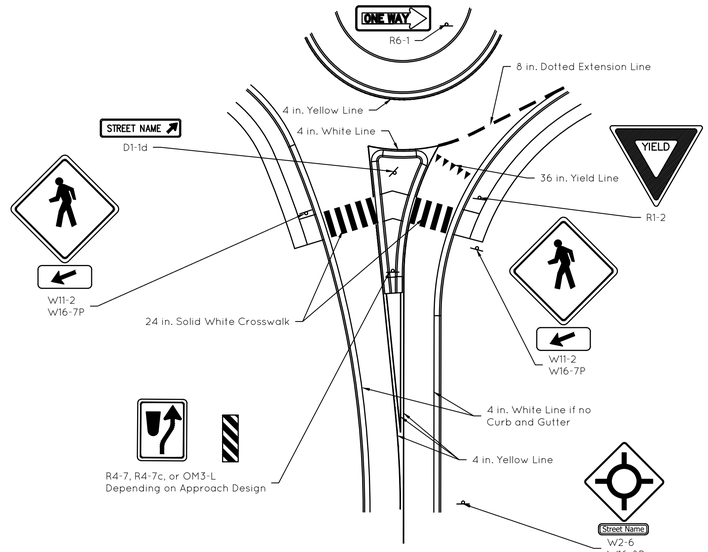
FISHERS
EST. 1872

Public street signs must include City of Fishers logo (white lettering and green background) to the left of the street name. The logo size should be based on the following table:

Sign Lettering Height	Max Logo Dimension
12"	10"X10"
9"	7"X7"
8"	6"X6"
6"	4"X4"
4"	3"X3"

CITY LOGO FOR STREET SIGNS

Not to Scale

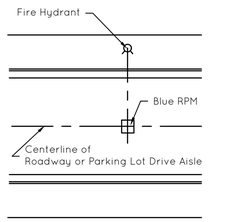


Notes:

1) Signs and striping shown for only one leg of single-lane roundabout.
2) Striping and signs indicated may be optional per the latest IMUTCD, but shall be required for all roundabouts designed in the City of Fishers unless prior approval has been given by the Dept. of Engineering.
3) All striping shall be thermoplastic on asphalt pavement and multi-component on concrete pavement.
4) All white striping on concrete pavement shall have black contrast border.
5) Sign post heights and lateral offsets shall be in accordance with latest IMUTCD guidance. R6-4a signs shall not exceed 4 feet from bottom of sign to edge of circulatory roadway traveled way.
6) Lighting adjacent to roundabouts shall be per the "LAMP POSTS AND LUMINAIRES ADJACENT TO ROUNDABOUTS" detail on next sheet.

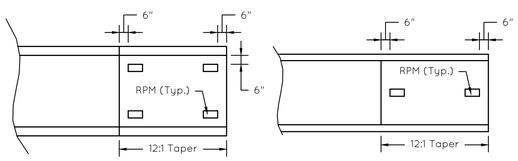
SINGLE-LANE ROUNDABOUT STRIPING EXAMPLE

Not to Scale



RAISED PAVEMENT MARKERS FOR HYDRANTS

Not to Scale

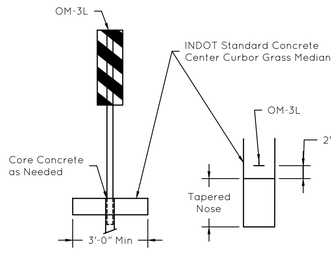


Notes:

1) Width greater than 3 feet requires 4 RPMs per Detail 1. Width less than 3 feet requires 2 RPMs per Detail 2 centered on width of median.
2) RPMs shall be yellow and Ennis Flint model 101LP or approved equal.
3) RPMs on top of concrete shall be epoxied and RPMs in pavement shall be grooved and epoxied according to manufacturer specifications.

RAISED PAVEMENT MARKERS

Not to Scale

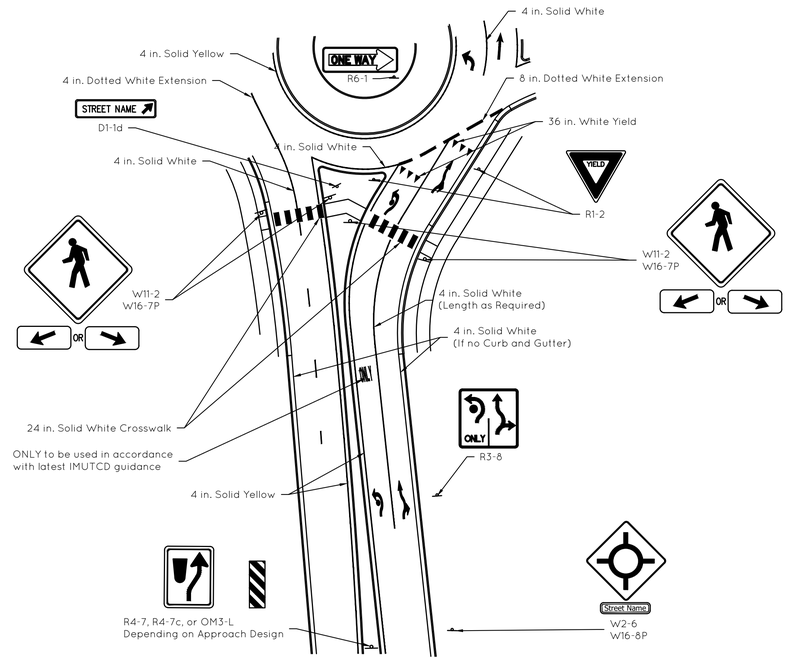


Notes:

1) All medians shall have an end treatment.
2) Medians greater than four feet in width may contain approved landscaping or grass.

MEDIAN END TREATMENT

Not to Scale

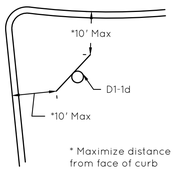


Notes:

1) Signs and striping shown for only one leg of multi-lane roundabouts.
2) Striping and signs indicated may be optional per the latest IMUTCD, but shall be required for all roundabouts designed in the City of Fishers unless prior approval has been given by the Dept. of Engineering.
3) Lane Indication Arrows and circulatory roadway striping are for example. Actual lane configurations may vary.
4) All striping shall be thermoplastic on asphalt pavement and multi-component on concrete pavement.
5) All white striping on concrete pavement shall have black contrast border.
6) Sign post heights and lateral offsets shall be in accordance with latest IMUTCD guidance. R6-4a signs shall not exceed 4 feet from bottom of sign to edge of circulatory roadway traveled way.
6) Lighting adjacent to roundabouts shall be per the "LAMP POSTS AND LUMINAIRES ADJACENT TO ROUNDABOUTS" detail on next sheet.

TWO-LANE ROUNDABOUT STRIPING EXAMPLE

Not to Scale



ROUNDABOUT D1-1d SPLITTER ISLAND PLACEMENT

Not to Scale

1/18/2022

JASON M. TAYLOR
REGISTERED
No.
PE11200277
STATE OF
INDIANA
PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

SIGN, PAVEMENT MARKING AND RPM DETAILS

SHEET
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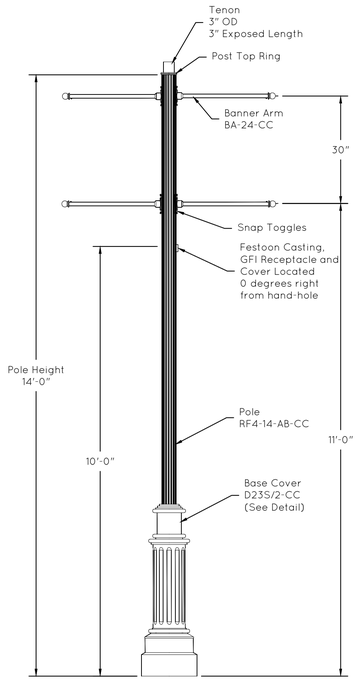
of
29



POLE

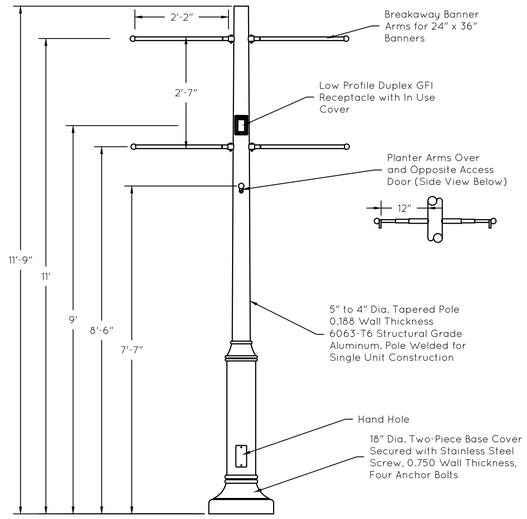
Model: FR4
Top Dia: 4"
Taper: None
Construction: Pultruded fiberglass reinforced isopthalic polyester resin utilizing longitudinal glass roving, continuous strand mat and off-axis fibers.
Anchor Base: Custom Top Hat Plate-ASTM A36

Tenon: 3" OD 3" Exposed 6061-T6 Alum
Post Top Ring: Cast Alum
Bolt Circle: 11 1/2"
Hand Hole: 5"x6" in anchor base. Cover to match
Paint: UV&Cleaning chemical resistant
Color: CC-Fishers Green
MAX Attachment Weight: 100 lbs
MAX Attachment EPA: 15.2
Pole Weight: 72 lbs approx

BASE COVER

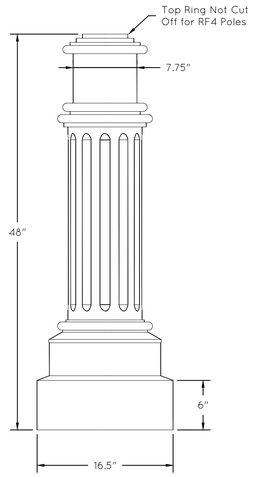
Model: D23S/2
Style: 2-Piece Clamshell
Material: Elastomeric Urethane
Color: CC-Fishers Green
Height: 48"
Width: 16.38"
Weight: 52 lbs approx

Top View

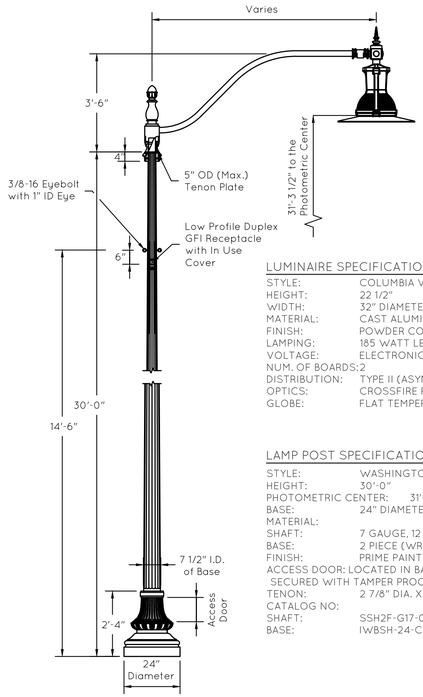


Notes:
1) All poles to be Fishers Green RAL 6004
2) Outlet wiring on lamp posts shall be such that the top outlet to be on only when lights are on. Bottom outlet shall remain on continuously

LAMP POSTS
Not to Scale



BASE COVER
Not to Scale



LUMINAIRE SPECIFICATIONS

STYLE:	COLUMBIA WITH EDGEWATER FINIAL
HEIGHT:	22 1/2"
WIDTH:	32" DIAMETER
MATERIAL:	CAST ALUMINUM ALLOY ANSI 356, PER A.S.T.M. B26-95
FINISH:	POWDER COAT - CUSTOM BLUE GREEN RAL # 6004
LAMPING:	185 WATT LED
VOLTAGE:	ELECTRONIC WIRED AT 120-277 VOLTS
NUM. OF BOARDS:	2
DISTRIBUTION:	TYPE II (ASYMMETRIC DISTRIBUTION)
OPTICS:	CROSSFIRE REFRACTIVE
GLOBE:	FLAT TEMPERED GLASS

LAMP POST SPECIFICATIONS

STYLE:	WASHINGTON STEEL
HEIGHT:	30'-0"
PHOTOMETRIC CENTER:	31'-3 3/4"
BASE:	24" DIAMETER WRAP BASE
MATERIAL:	
SHAFT:	7 GAUGE, 12 FLAT FLUTE, STEEL MONOTUBE CONSTRUCTION
BASE:	2 PIECE (WRAP AROUND) CAST IRON PER A.S.T.M. A48-83 CLASS 30
FINISH:	PRIME PAINT THEN FINISH CUSTOM BLUE GREEN RAL # 6004
ACCESS DOOR:	LOCATED IN BASE, TO COINCIDE WITH HAND HOLE IN STEEL SHAFT, SECURED WITH TAMPER PROOF HEX SOCKET SECURITY MACHINE SCREWS
TENON:	2 7/8" DIA. X 6" HIGH (TO ACCEPT CROSS ARM)
CATALOG NO:	
SHAFT:	SSH2F-G17-07.60-30.00-TN2.88/6.00-GFWN-(2)EB-CB
BASE:	IWBSH-24-CB

Note:
1) Outlet wiring on lamp posts shall be such that the top outlet to be on only when lights are on while the bottom outlet shall remain on continuously.

LAMP POSTS AND LUMINAIRES ADJACENT TO ROUNDABOUTS
Not to Scale

POLE

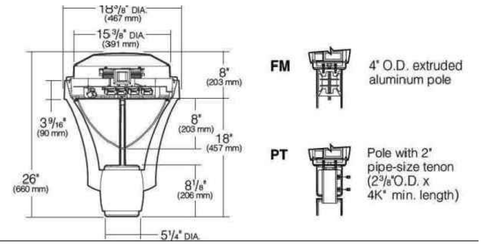
MODEL:	RF4
TOP	DIA: 4"
TAPER:	NONE
CONSTRUCTION:	Pultruded fiberglass reinforced isopthalic polyester resin utilizing longitudinal glass roving, continuous strand mat and off-axis fibers.
ANCHOR BASE:	Custom Top Hat Plate-ASTM A36
TENON:	3" OD 3" Exposed 6061-T6 Alum
POST TOP RING:	Cast Alum
BOLT CIRCLE:	11 1/2"
HAND HOLE:	5"x6" in Anchor Base; Cover to Match
PAINT:	UV & Cleaning chemical resistant
COLOR:	CC-Fishers Green
MAX ATTACHMENT WEIGHT:	100 LBS
MAX ATTACHMENT EPA:	15.2
POLE WEIGHT:	72 LBS approx

BASE COVER

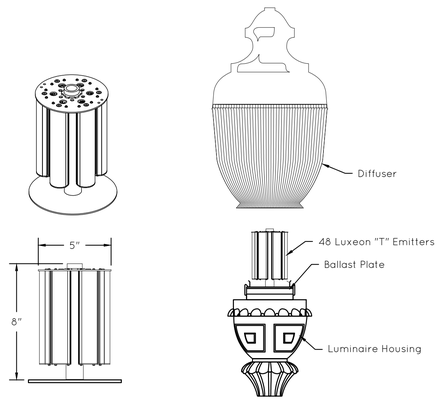
MODEL:	D23S/2
STYLE:	2-Piece Clamshell
MATERIAL:	Elastomeric Urethane
COLOR:	CC-Fishers Green
HEIGHT:	48"
WIDTH:	16.38"
WEIGHT:	52 LBS approx

SPECIFICATIONS

Approx. Weight = 45 lbs EPA 2.5 for 1SA
See Configuration for Additional EPAs.



KIM LIGHTING-SOLITAIRE
Not to Scale



LED FIXTURES
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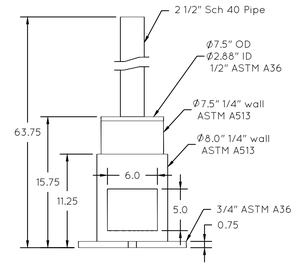

CUSTOM HAT BASE ASSEMBLY
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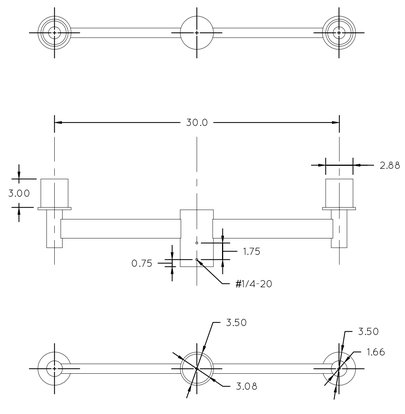


CROSS ARM
Not to Scale

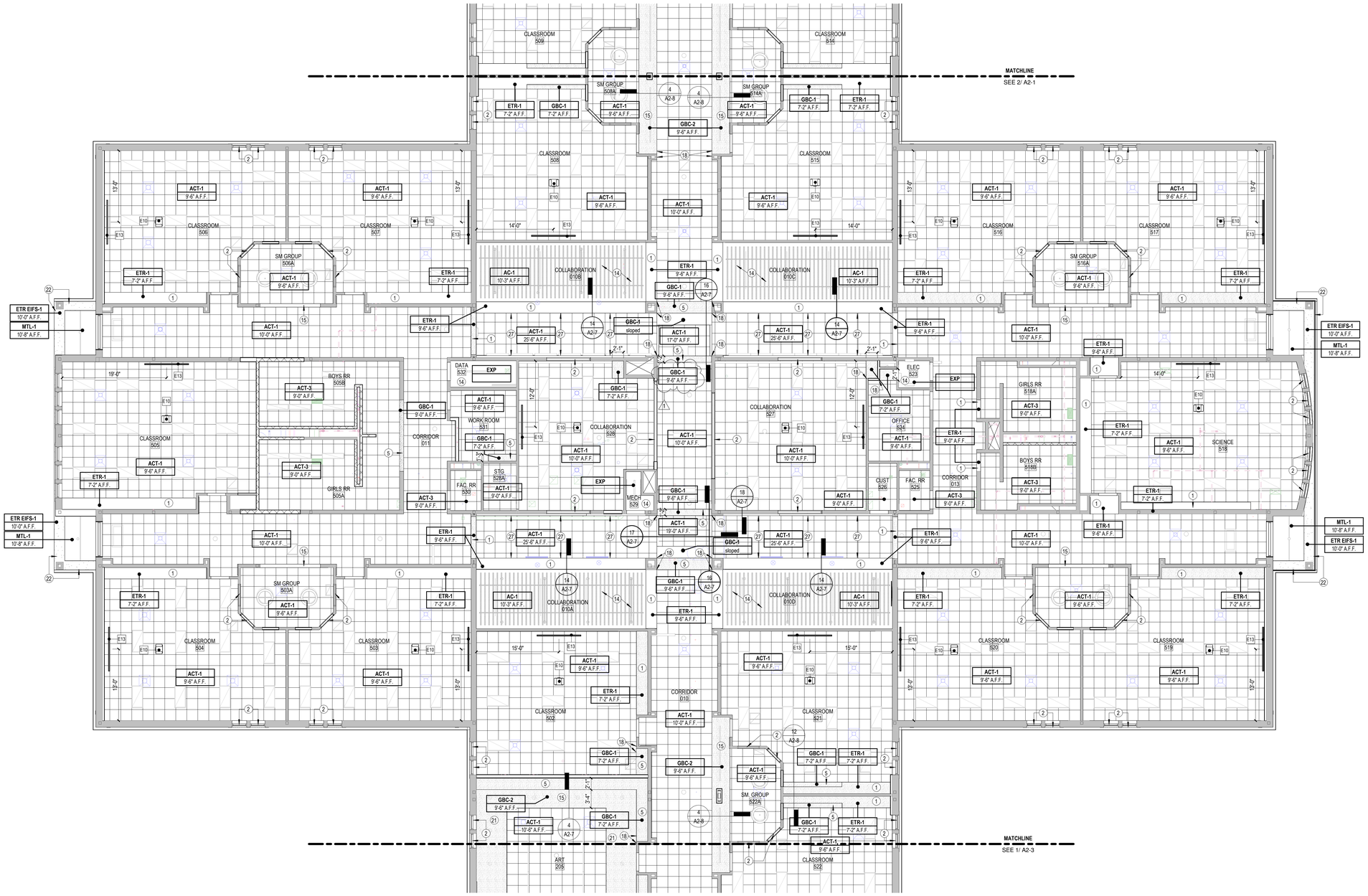
1/18/2022

JASON M. TAYLOR
REGISTERED
No. PE11200277
STATE OF INDIANA
PROFESSIONAL ENGINEER

CITY OF FISHERS
STANDARD CONSTRUCTION DETAILS

LAMP POST & LED FIXTURE DETAILS

SHEET
29 of 29



1 FIRST FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES - REFLECTED CEILING PLAN

1. EXISTING BULKHEAD TO REMAIN. PAINT EP-1
2. PROVIDE FRAME MOUNTED ROLLER SHADE TO COVER FULL DIMENSION OF WINDOW/ STOREFRONT - BOD DRAPER INC. CLUTCH-OPERATED FLEX SHADE. REFER A2-8 SHEET FOR "(TYP.) EXTERIOR WINDOW SHADE" OR (TYP.) INTERIOR WINDOW SHADE" ACCORDINGLY
3. GYP CONTROL JOINT AT PAINT TRANSITION.
4. NEW GYP. BD. BULKHEAD ON 6" METAL STUD. ALIGN AND MATCH SLOP AND HEIGHT TO EXISTING IN VESTIBULE 001. PAINT P-7.
5. NEW BULKHEAD. PAINT EP-1.
6. SKYLIGHT. PAINT ETR WALLS P-7.
7. PAINT ETR STRUCTURAL FRAMING, DUCT RUNS, AND EXPOSED DECK P-7.
8. NEW WALL MOUNTED PROJECTOR SCREEN. COORDINATE LOCATION WITH EXISTING PROJECTOR. SCREEN TO HAVE (+50") EXTRA DROP. REFER TO ELEVATIONS.
9. EXISTING GYP. BD. BUMP OUT TO REMAIN. PAINT P-1.
10. CEILING MOUNTED TRACK AND PRIVACY CURTAIN.
11. PAINT BULKHEAD EP-5.
12. PAINT BULKHEAD P-7
13. CONTROL JOINT
14. PAINT EXISTING CEILING P-7.
15. PAINT BULKHEAD EP-4 TO MATCH ADJACENT WALL.
16. BULKHEAD TO BE PAINTED P-5.
17. CLEAN AND PAINT STEEL LINTEL
18. ALIGN FACE OF BULKHEAD WITH FACE OF WALL.
19. PATCH BULKHEAD WHERE DEMOLITION OCCURED,
20. EXISTING TO REMAIN GYP BD. ABOVE BAFFLES TO BE PAINTED P-7.
21. PAINT BULKHEAD P-4
22. PATCH EIFS AS REQUIRED DUE TO DEMOLITION. MATCH FINISH AND TEXTURE. PAINT HORIZONTAL AND VERTICAL FACES OF SOFFIT EFP-1.
23. ETR EQUIPMENT. PROTECT DURING CONSTRUCTION.
24. MASONRY OPENING - INSTALL BOTTOM OF LINTEL AT 7'-4" A.F.F. COORDINATE WITH FOOD SERVICE EQUIPMENT.
25. EXISTING COOLER CEILING TO REMAIN
26. ACCESS PANEL LOCATION. REFER TO CEILING MANUFACTURER'S STANDARD DETAILS.
27. MATCH EXISTING VERTICAL DRYWALL REVEAL AND EXTEND TO 4" ABOVE NEW CEILING. EXTEND, PATCH, AND REPAIR DRYWALL AS NECESSARY TO LEVEL 4 FINISH.

EQUIPMENT SCHEDULE

TAG	ACCESSORY NOTES	FURNISHED BY	INSTALLED BY
E1	8'-0" x 4'-0" WHITEBOARD	CONTRACTOR	CONTRACTOR
E2	10'-0" x 4'-0" WHITEBOARD	CONTRACTOR	CONTRACTOR
E3	12'-0" x 4'-0" WHITEBOARD	CONTRACTOR	CONTRACTOR
E4	FULL WALL BACK PAINTED GLASS MARKERBOARD	CONTRACTOR	CONTRACTOR
E5	3'-0"W x 3'-6"H TACKABLE PANEL DP-1	CONTRACTOR	CONTRACTOR
E6	3'-0"W x 3'-6"H TACKABLE PANEL DP-1	CONTRACTOR	CONTRACTOR
E7	9'-0"W x 4'-0"H TACKABLE PANEL DP-1	CONTRACTOR	CONTRACTOR
E8	4'-0"H TACKABLE PANEL DP-1. WIDTH VARIES. REFER TO ELEVATION	CONTRACTOR	CONTRACTOR
E9	4'-0" x 4'-0" TACK BOARD	CONTRACTOR	CONTRACTOR
E10	CEILING MOUNTED PROJECTOR	OWNER	OWNER
E11	14'-0"W AUTOMATIC PROJECTION SCREEN. CEILING RECESSED UNO. COORDINATE INTALLATION WITH SCHOOL AV COMPANY	CONTRACTOR	CONTRACTOR
E12	12'-0"W MANUAL PROJECTION SCREEN. CEILING MOUNT	CONTRACTOR	CONTRACTOR
E13	8'-0"W MANUAL PROJECTION SCREEN. CEILING MOUNT	CONTRACTOR	CONTRACTOR
E14	ICE MACHINE	CONTRACTOR	CONTRACTOR
E15	POPCORN MACHINE	OWNER	OWNER
E16	WARM PASS THROUGH	OWNER	OWNER
E17	MICROWAVE	OWNER	OWNER
E18	VENDING MACHINE	OWNER	OWNER
E19	REFRIGERATOR	OWNER	OWNER
E20	MINI FRIDGE	OWNER	OWNER
E21	DRINK COOLER	OWNER	OWNER
E22	TV	OWNER	CONTRACTOR
E23	DIGITAL MENU BOARD	CONTRACTOR	CONTRACTOR
E24	EYEWASH STATION. REFER TO MEP	ETR	ETR
E25	PRINTER/ COPIER	OWNER	OWNER
E26	EXISTING SHREDDER	OWNER	CONTRACTOR
E27	FIRE EXTINGUISHER	ETR	ETR
E28	EXISTING LAMINATOR	OWNER	OWNER
E29	DIE CUT MACHINE	OWNER	OWNER
E30	EXISTING SAFE	OWNER	OWNER
E31	EXISTING GLOWFORGE	OWNER	OWNER
E32	3D PRINTER	OWNER	OWNER
E33	EXISTING ROLL STORAGE	OWNER	OWNER
E34	WASHER	OWNER	OWNER
E35	DRYER	OWNER	OWNER

CEILING SCHEDULE

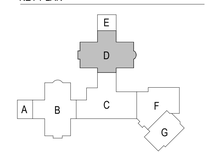
AC-1	ACOUSTIC BAFFLE CEILING. BASIS OF DESIGN - TURF WEDGE BAFFLE SPACED 9"OC. FELTLOCK TO UNISTRUT ATTACHMENTS. COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE
ACT-1	2x2 SUSPENDED ACOUSTICAL CEILING TILE, REFER TO SPECIFICATIONS
ACT-2	2x6 HIGH NRC SUSPENDED ACOUSTICAL CEILING TILE, REFER TO SPECIFICATIONS
ACT-3	2x2 SCRUBBABLE SUSPENDED ACOUSTICAL CEILING TILE, REFER TO SPECIFICATIONS
ETR EIFS-1	EXISTING EIFS TO REMAIN PAINT
ETR-1	EXISTING GYP. BD. ON METAL STUD TO REMAIN. PAINT, REFER TO FINISH SCHEDULE
EXP	EXPOSED CEILING.
GBC-1	5/8" GYP. BD. ON METAL STUD - PAINT, REFER TO FINISH SCHEDULE
GBC-2	5/8" GYP. BD. ON SUSPENDED TRACK. BOD ARMSTRONG FRAMEALL DRYWALL GRID - PAINT, REFER TO FINISH SCHEDULE
MTL-1	INSULATED METAL SOFFIT SYSTEM, REFER TO SPECIFICATIONS
WDC-1	SUSPENDED WOOD CEILING SYSTEM, REFER TO SPECIFICATIONS

RCP LEGEND

XXX-1 / 1'-0" A.F.F. — CEILING TYPE / CEILING HEIGHT

GYP. EXP. JOINT REFER TO STANDARD DETAIL

KEY PLAN



REVISIONS

1	07/29/24	Addendum 1

krM Architecture+

kbso CONSULTING

HB Lynch, Harrison & Brumleve, Inc.

07.12.24
HAMILTON SOUTHEASTERN SCHOOLS

23055 - FALL CREEK INTERMEDIATE RENOVATIONS

12011 Olio Rd. Fishers, IN 46037

CONSTRUCTION DOCUMENTS

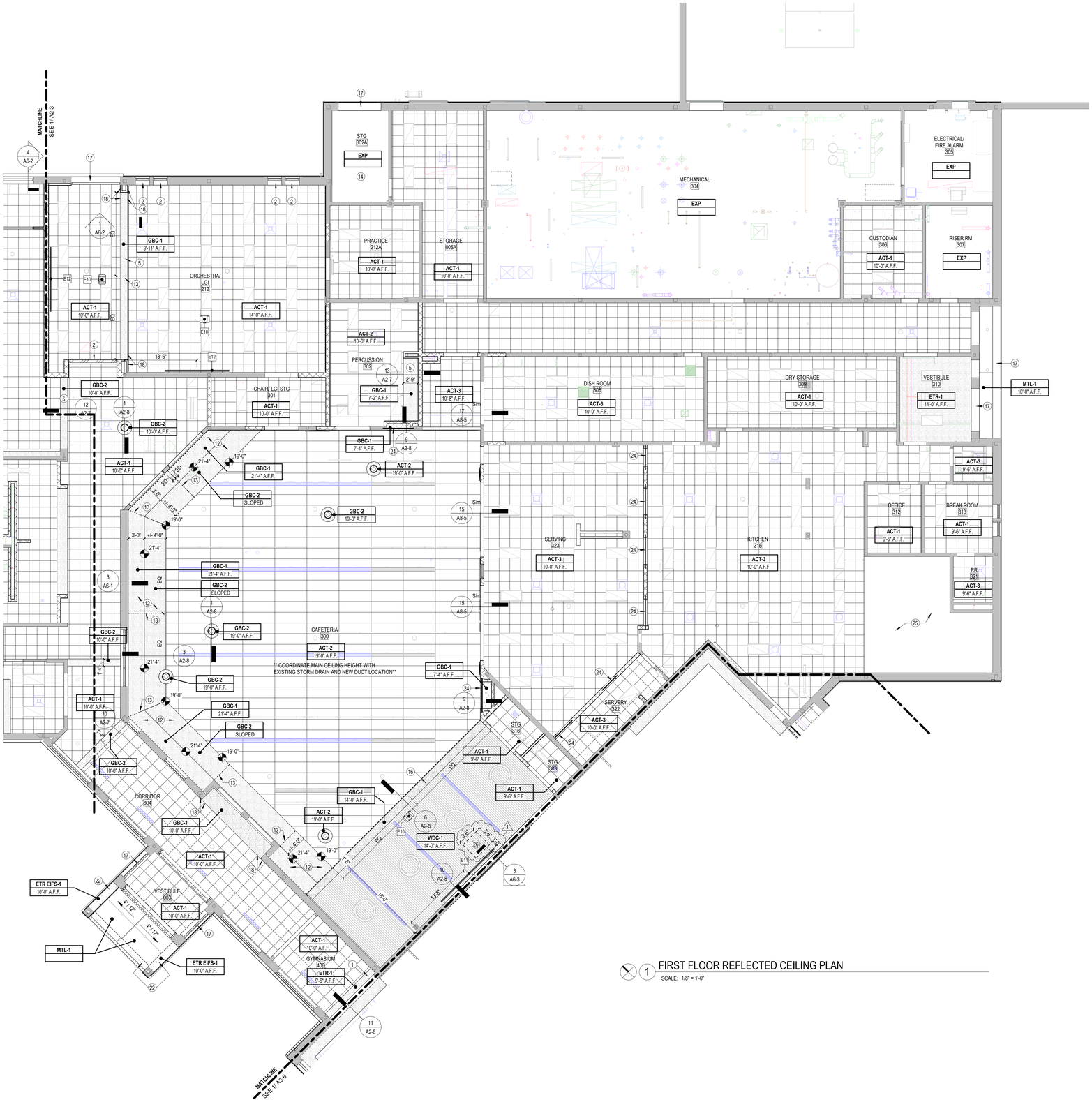
SET TO BE PRINTED IN COLOR

REGISTERED ARCHITECT — DONALD D. WILLIAMS — No. 10600161 — STATE OF INDIANA

CONSTRUCTION DOCUMENTS
07.12.24
krM JOB NO.
23055
DRAWN BY
Cg

DRAWING NAME
REFLECTED CEILING PLAN - AREA D

DRAWING NO.
A2-4



1 FIRST FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES - REFLECTED CEILING PLAN

1. EXISTING BULKHEAD TO REMAIN. PAINT EP-1
2. PROVIDE FRAME MOUNTED ROLLER SHADE TO COVER FULL DIMENSION OF WINDOW/ STOREFRONT - BOD DRAPER INC. CLUTCH-OPERATED FLEX SHADE. REFER A2-8 SHEET FOR "(TYP.) EXTERIOR WINDOW SHADE" OR (TYP.) INTERIOR WINDOW SHADE" ACCORDINGLY.
3. GYP CONTROL JOINT AT PAINT TRANSITION.
4. NEW GYP. BD. BULKHEAD ON 6" METAL STUD. ALIGN AND MATCH SLOP AND HEIGHT TO EXISTING IN VESTIBULE 001. PAINT P-7.
5. NEW BULKHEAD. PAINT EP-1.
6. SKYLIGHT. PAINT ETR WALLS P-7.
7. PAINT ETR STRUCTURAL FRAMING, DUCT RUNS, AND EXPOSED DECK P-7.
8. NEW WALL MOUNTED PROJECTOR SCREEN. COORDINATE LOCATION WITH EXISTING PROJECTOR. SCREEN TO HAVE (+50") EXTRA DROP. REFER TO ELEVATIONS.
9. EXISTING GYP. BD. BUMP OUT TO REMAIN. PAINT P-1.
10. CEILING MOUNTED TRACK AND PRIVACY CURTAIN.
11. PAINT BULKHEAD EP-5.
12. PAINT BULKHEAD P-7
13. CONTROL JOINT
14. PAINT EXISTING CEILING P-7.
15. PAINT BULKHEAD EP-4 TO MATCH ADJACENT WALL.
16. BULKHEAD TO BE PAINTED P-5.
17. CLEAN AND PAINT STEEL LINTEL
18. ALIGN FACE OF BULKHEAD WITH FACE OF WALL.
19. PATCH BULKHEAD WHERE DEMOLITION OCCURED,
20. EXISTING TO REMAIN GYP BD. ABOVE BAFFLES TO BE PAINTED P-7.
21. PAINT BULKHEAD P-4
22. PATCH EIFS AS REQUIRED DUE TO DEMOLITION. MATCH FINISH AND TEXTURE. PAINT HORIZONTAL AND VERTICAL FACES OF SOFFIT EFP-1.
23. ETR EQUIPMENT. PROTECT DURING CONSTRUCTION.
24. MASONRY OPENING - INSTALL BOTTOM OF LINTEL AT 7'-4" A.F.F. COORDINATE WITH FOOD SERVICE EQUIPMENT.
25. EXISTING COOLER CEILING TO REMAIN
26. ACCESS PANEL LOCATION. REFER TO CEILING MANUFACTURER'S STANDARD DETAILS.
27. MATCH EXISTING VERTICAL DRYWALL REVEAL AND EXTEND TO 4" ABOVE NEW CEILING. EXTEND, PATCH, AND REPAIR DRYWALL AS NECESSARY TO LEVEL 4 FINISH.

EQUIPMENT SCHEDULE

TAG	ACCESSORY NOTES	FURNISHED BY	INSTALLED BY
E1	8'-0" x 4'-0" WHITEBOARD	CONTRACTOR	CONTRACTOR
E2	10'-0" x 4'-0" WHITEBOARD	CONTRACTOR	CONTRACTOR
E3	12'-0" x 4'-0" WHITEBOARD	CONTRACTOR	CONTRACTOR
E4	FULL WALL BACK PAINTED GLASS MARKERBOARD	CONTRACTOR	CONTRACTOR
E5	2'-0"W x 3'-6"H TACKABLE PANEL DP-1	CONTRACTOR	CONTRACTOR
E6	3'-0"W x 3'-6"H TACKABLE PANEL DP-1	CONTRACTOR	CONTRACTOR
E7	9'-0"W x 4'-0"H TACKABLE PANEL DP-1	CONTRACTOR	CONTRACTOR
E8	4'-0"H TACKABLE PANEL DP-1. WIDTH VARIES. REFER TO ELEVATION	CONTRACTOR	CONTRACTOR
E9	4'-0" x 4'-0" TACK BOARD	CONTRACTOR	CONTRACTOR
E10	CEILING MOUNTED PROJECTOR	OWNER	OWNER
E11	14'-0"W AUTOMATIC PROJECTION SCREEN. CEILING RECESSED UNO. COORDINATE INTALLATION WITH SCHOOL AV COMPANY	CONTRACTOR	CONTRACTOR
E12	12'-0"W MANUAL PROJECTION SCREEN. CEILING MOUNT	CONTRACTOR	CONTRACTOR
E13	8'-0"W MANUAL PROJECTION SCREEN. CEILING MOUNT	CONTRACTOR	CONTRACTOR
E14	ICE MACHINE	CONTRACTOR	CONTRACTOR
E15	POPCORN MACHINE	OWNER	OWNER
E16	WARM PASS THROUGH	OWNER	OWNER
E17	MICROWAVE	OWNER	OWNER
E18	VENDING MACHINE	OWNER	OWNER
E19	REFRIGERATOR	OWNER	OWNER
E20	MINI FRIDGE	OWNER	OWNER
E21	DRINK COOLER	OWNER	OWNER
E22	TV	OWNER	CONTRACTOR
E23	DIGITAL MENU BOARD	CONTRACTOR	CONTRACTOR
E24	EYEWASH STATION. REFER TO MEP.	ETR	ETR
E25	PRINTER/ COPIER	OWNER	OWNER
E26	EXISTING SHREDDER	OWNER	CONTRACTOR
E27	FIRE EXTINGUISHER	ETR	ETR
E28	EXISTING LAMINATOR	OWNER	OWNER
E29	DIE CUT MACHINE	OWNER	OWNER
E30	EXISTING SAFE	OWNER	OWNER
E31	EXISTING GLOWFORGE	OWNER	OWNER
E32	3D PRINTER	OWNER	OWNER
E33	EXISTING ROLL STORAGE	OWNER	OWNER
E34	WASHER	OWNER	OWNER
E35	DRYER	OWNER	OWNER

CEILING SCHEDULE

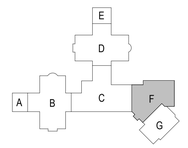
AC-1	ACOUSTIC BAFFLE CEILING. BASIS OF DESIGN - TURF WEDGE BAFFLE SPACED 9"OC. FELTLOCK TO UNISTRUT ATTACHMENTS. COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE
ACT-1	2x2 SUSPENDED ACOUSTICAL CEILING TILE, REFER TO SPECIFICATIONS
ACT-2	2x6 HIGH NRC SUSPENDED ACOUSTICAL CEILING TILE, REFER TO SPECIFICATIONS
ACT-3	2x2 SCRUBBABLE SUSPENDED ACOUSTICAL CEILING TILE, REFER TO SPECIFICATIONS
ETR EIFS-1	EXISTING EIFS TO REMAIN PAINT
ETR-1	EXISTING GYP. BD. ON METAL STUD TO REMAIN. PAINT, REFER TO FINISH SCHEDULE
EXP	EXPOSED CEILING
GBC-1	5/8" GYP. BD. ON METAL STUD - PAINT, REFER TO FINISH SCHEDULE
GBC-2	5/8" GYP. BD. ON SUSPENDED TRACK. BOD ARMSTRONG FRAMEALL DRYWALL GRID - PAINT, REFER TO FINISH SCHEDULE
MTL-1	INSULATED METAL SOFFIT SYSTEM. REFER TO SPECIFICATIONS
WDC-1	SUSPENDED WOOD CEILING SYSTEM, REFER TO SPECIFICATIONS

RCP LEGEND

XXX-1 / 1' - 0" A.F.F. — CEILING TYPE / CEILING HEIGHT

GYP. EXP. JOINT REFER TO STANDARD DETAIL

KEY PLAN



REVISIONS

1	07/29/24	Addendum 1

HAMILTON SOUTHEASTERN SCHOOLS
07.12.24

23055 - FALL CREEK INTERMEDIATE RENOVATIONS

12011 Olio Rd. Fishers, IN 46037

CONSTRUCTION DOCUMENTS

SET TO BE PRINTED IN COLOR

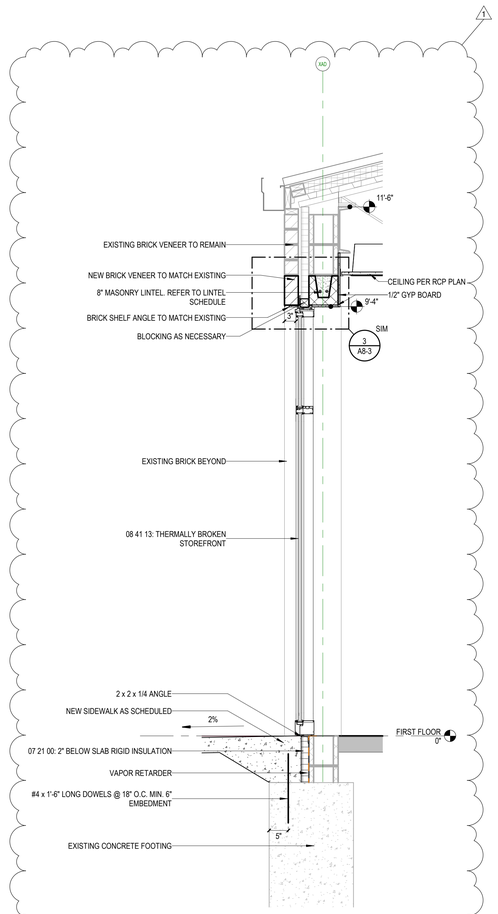
CONSTRUCTION DOCUMENTS
07.12.24

krM JOB NO.
23055

DRAWN BY
Cg

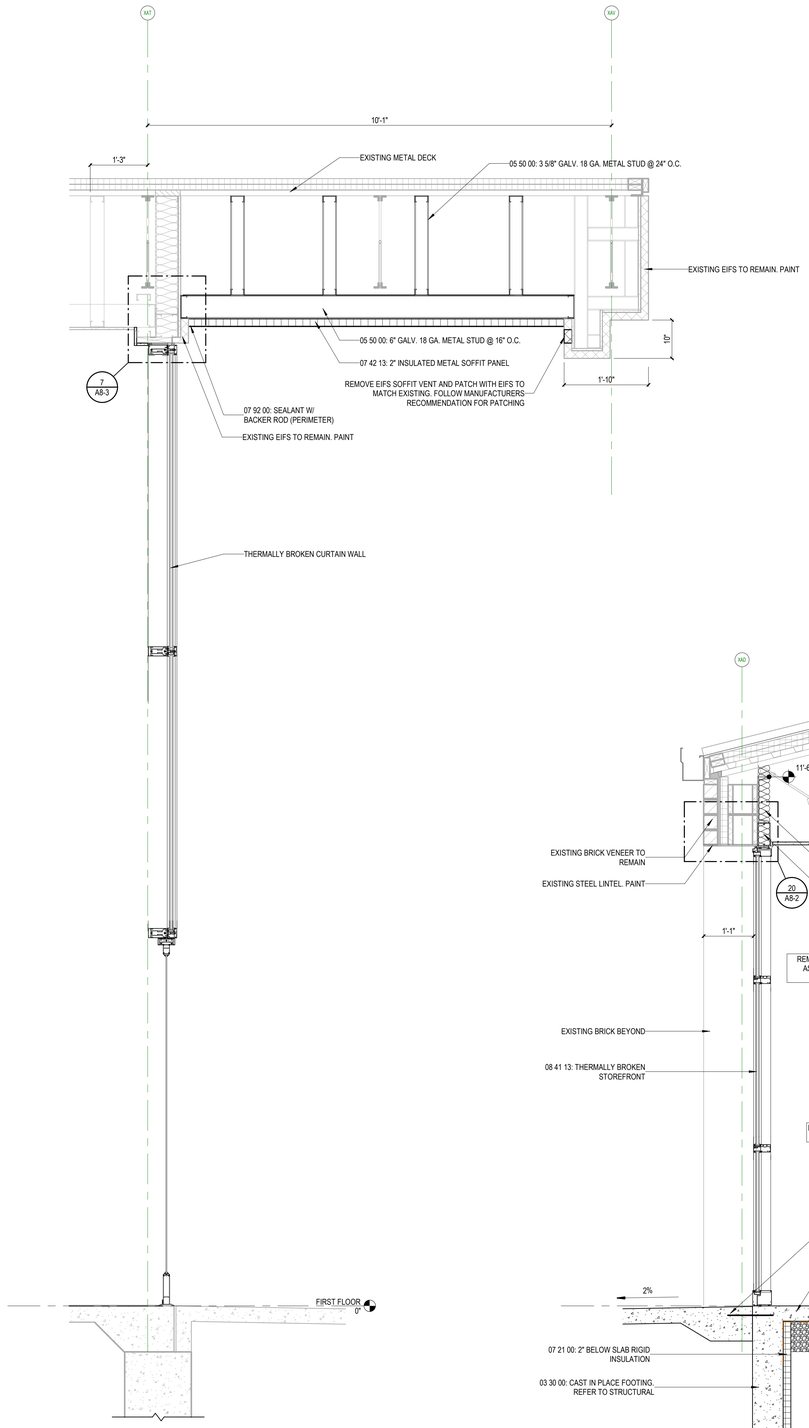
DRAWING NAME
REFLECTED CEILING PLAN - AREA F

DRAWING NO.
A2-5



4 DOOR 004D SECTION

SCALE: 3/4" = 1'-0"



3 FRONT ENTRY SECTION

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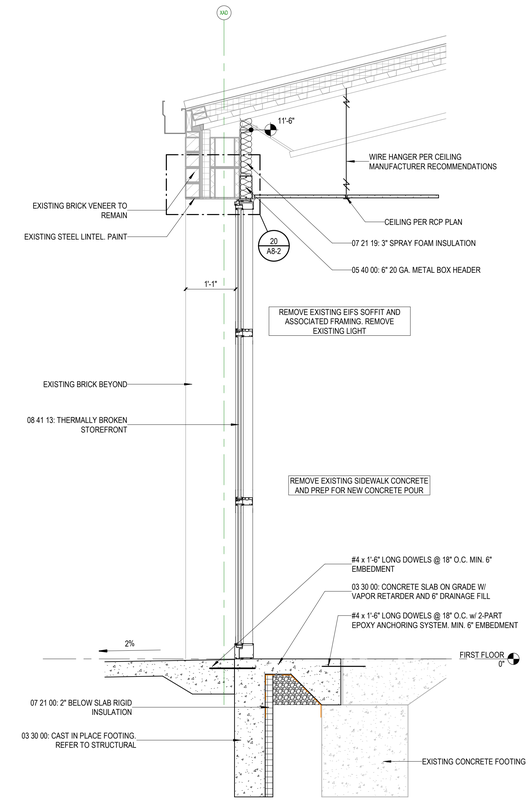

2 LGI DOOR INFILL SECTION

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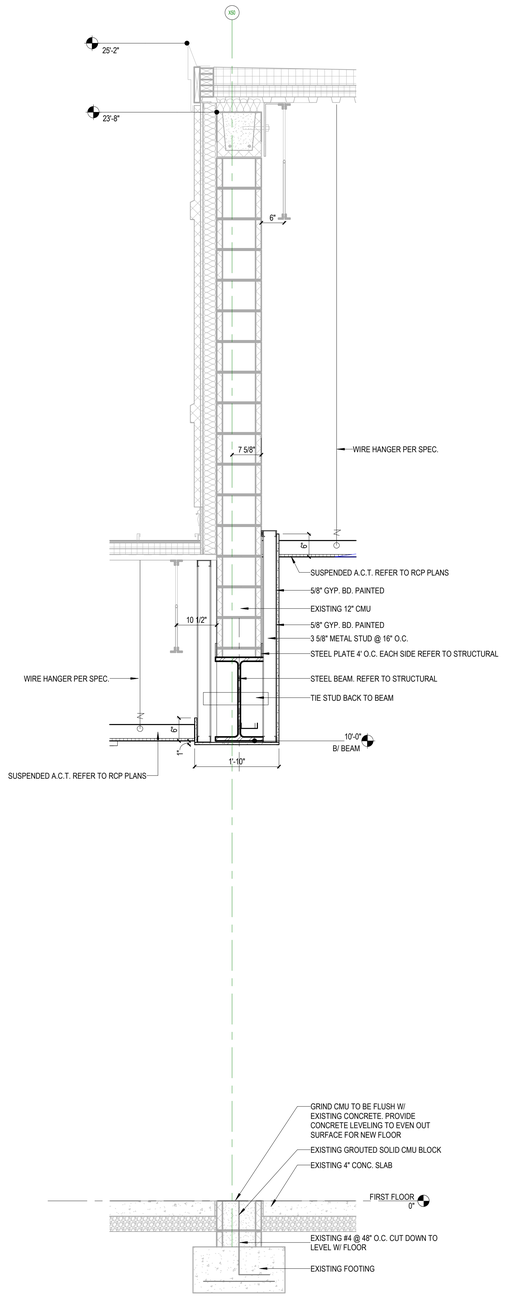


1 LGI WALL SUPPORT

SCALE: 3/4" = 1'-0"

krM Architecture+

kbsO CONSULTING

HB Lynch, Harrison & Brumleve, Inc.

REVISIONS

1	07/29/24	Addendum 1

07.12.24
HAMILTON SOUTHEASTERN SCHOOLS

23055 - FALL CREEK INTERMEDIATE RENOVATIONS

12011 Olio Rd, Fishers, IN 46037

CONSTRUCTION DOCUMENTS

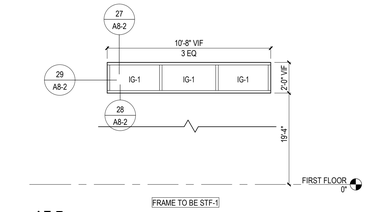
SET TO BE PRINTED IN COLOR

REGISTERED ARCHITECT
WINFIELD D. WILLIAMS
No. 10600161
STATE OF INDIANA

CONSTRUCTION DOCUMENTS
07.12.24
krM JOB NO.
23055
DRAWN BY
MrY

DRAWING NAME
WALL SECTIONS & DETAILS

DRAWING NO.
A6-2



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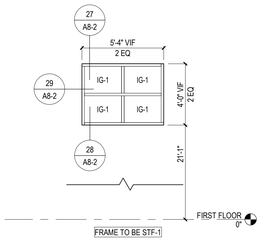

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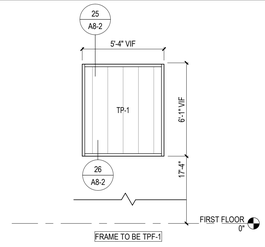

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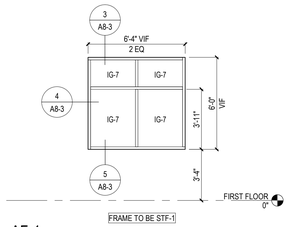

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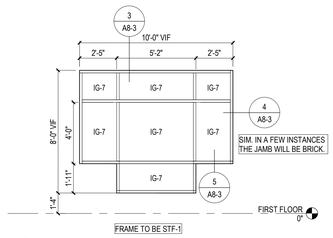

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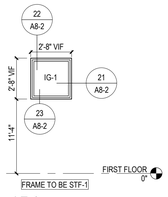

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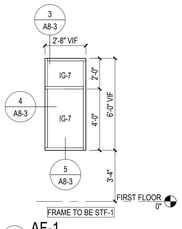

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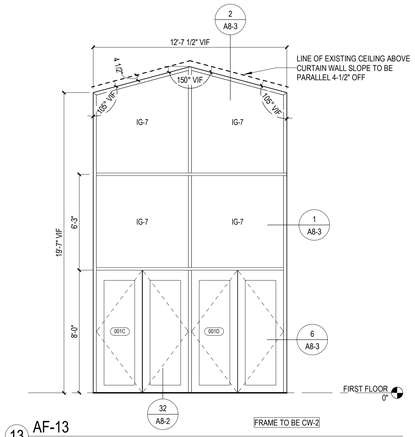

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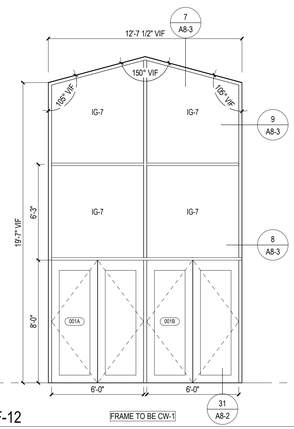
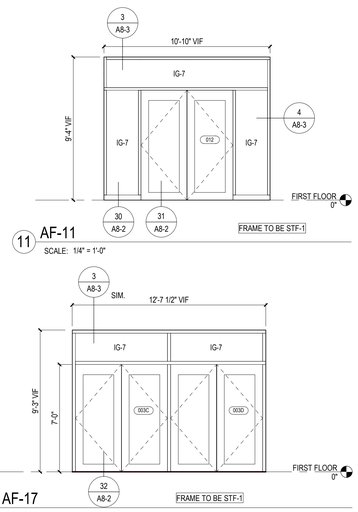


12 AF-12
SCALE: 1/4" = 1'-0"



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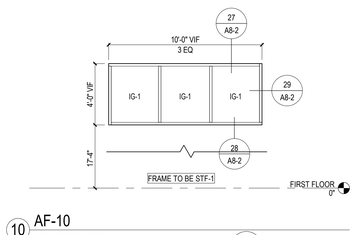
SCALE: 1/4" = 1'-0"



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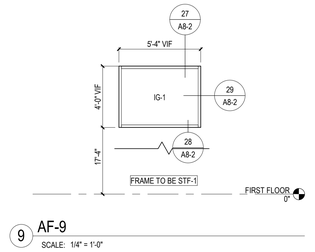

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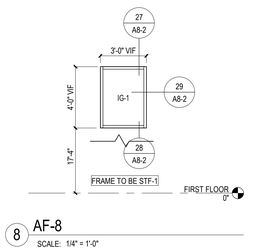
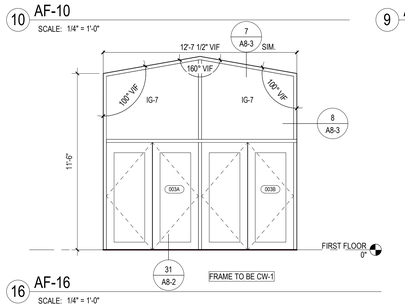


8 AF-8
SCALE: 1/4" = 1'-0"

17 AF-17
SCALE: 1/4" = 1'-0"



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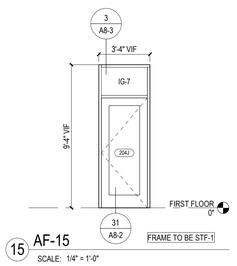
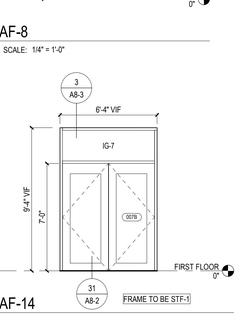
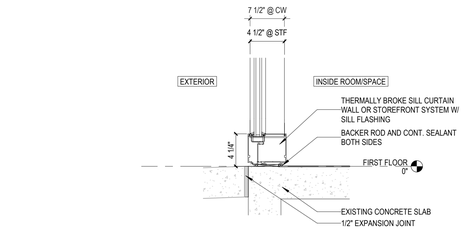


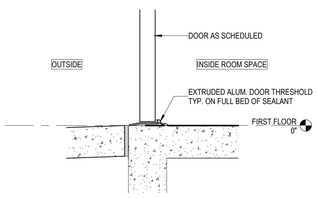
15 AF-15
SCALE: 1/4" = 1'-0"



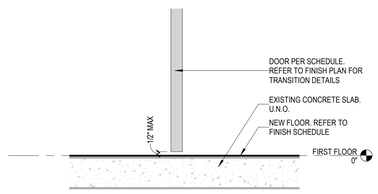
14 AF-14
SCALE: 1/4" = 1'-0"



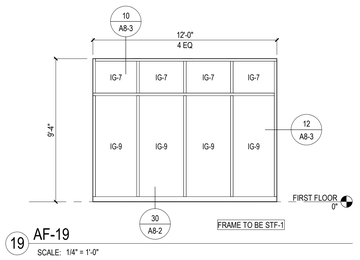
30 SILL DETAIL #1
SCALE: 1 1/2" = 1'-0"



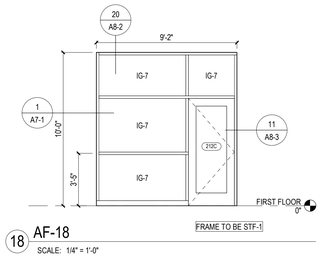
31 EXT DOOR SILL DETAIL
SCALE: 1 1/2" = 1'-0"



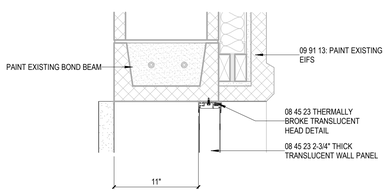
32 INTERIOR DOOR SILL TYP.
SCALE: 1 1/2" = 1'-0"



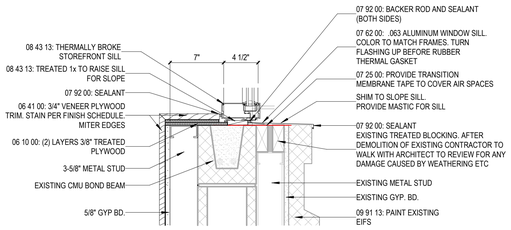
19 AF-19
SCALE: 1/4" = 1'-0"



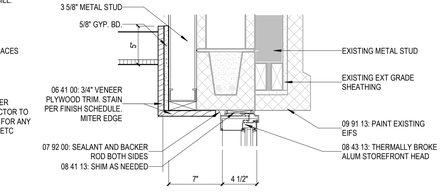
18 AF-18
SCALE: 1/4" = 1'-0"



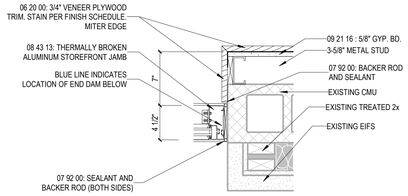
25 TRANSLUCENT HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



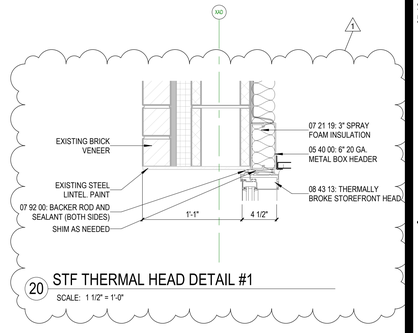
23 EIFS SILL DETAIL #1
SCALE: 1 1/2" = 1'-0"



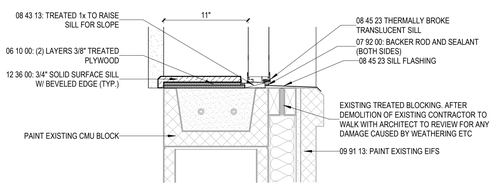
22 EIFS HEAD DETAIL #1
SCALE: 1 1/2" = 1'-0"



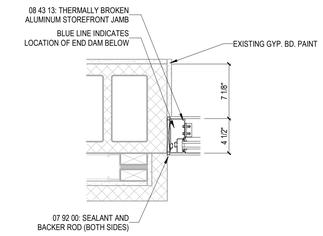
21 EIFS JAMB DETAIL #1
SCALE: 1 1/2" = 1'-0"



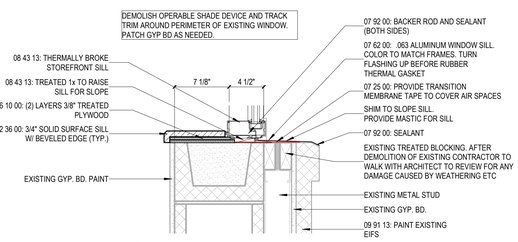
20 STF THERMAL HEAD DETAIL #1
SCALE: 1 1/2" = 1'-0"



26 TRANSLUCENT SILL DETAIL
SCALE: 1 1/2" = 1'-0"



29 EIFS JAMB DETAIL #2
SCALE: 1 1/2" = 1'-0"



28 EIFS SILL DETAIL #2
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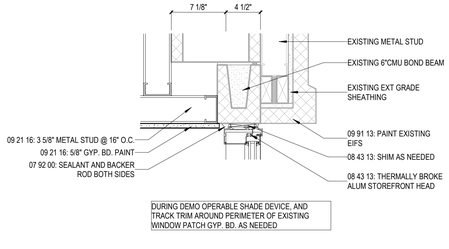


27 EIFS HEAD DETAIL #2
SCALE: 1 1/2" = 1'-0"

GLAZING SCHEDULE

G-2	1/4", VISION GLASS, TEMPERED
G-2/VF-1	1/4" VISION GLASS, TEMPERED WITH VF-1 WINDOW FILM
G-6	1/2" LAMINATED SECURITY GLAZING
IG-1	1", LOW-E INSULATED GLAZING
IG-4	SLOPED SKYLIGHT GLAZING: 1-5/16" LAMINATED INSULATED GLAZING UNIT
IG-7	1", LOW-E LAMINATED INSULATED GLAZING
IG-8	SLOPED SKYLIGHT GLAZING: 1-5/16" LAMINATED INSULATED GLAZING UNIT WITH WHITE TRANSLUCENT INTERLAYER
IG-9	1", LOW-E LAMINATED INSULATED GLAZING WITH GRADIENT FRIT PATTERN
TP-1	2 3/4" THERMALLY BROKEN TRANSLUCENT SANDWICH PANEL ASSEMBLY

FRAME NOTES

TAG	SPEC SECTION	DESCRIPTION
STF-1	08 43 13	4-1/2" DEEP THERMALLY BROKEN ALUMINUM STOREFRONT
STF-2	08 43 13	4-1/2" DEEP ALUMINUM STOREFRONT
CW-1	08 44 13	7-1/2" DEEP THERMALLY BROKEN CURTAIN WALL
CW-2	08 44 13	7-1/2" DEEP CURTAIN WALL
TPF-1	08 45 23	2-3/4" DEEP THERMALLY BROKEN ALUMINUM FRAME

krM Architecture+

kbso CONSULTING

HB Lynch, Harrison & Brumleve, Inc.

REVISIONS

1	07/29/24	Addendum 1

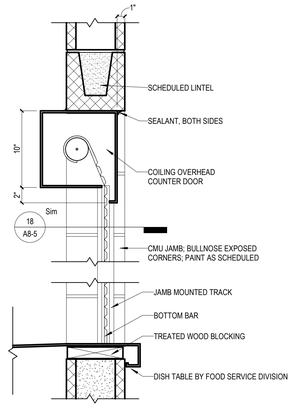
07.12.24
HAMILTON SOUTHEASTERN SCHOOLS
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd. Fishers, IN 46037
CONSTRUCTION DOCUMENTS
SET TO BE PRINTED IN COLOR

MILFORD D. WILLIAMS REGISTERED No. 10600161 STATE OF INDIANA ARCHITECT

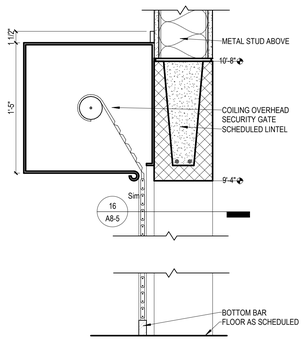
CONSTRUCTION DOCUMENTS
07.12.24
krM JOB NO.
23055
DRAWN BY
Cg

DRAWING NAME
EXT. FRAME ELEVATIONS

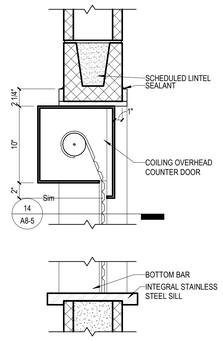
DRAWING NO.
A8-2



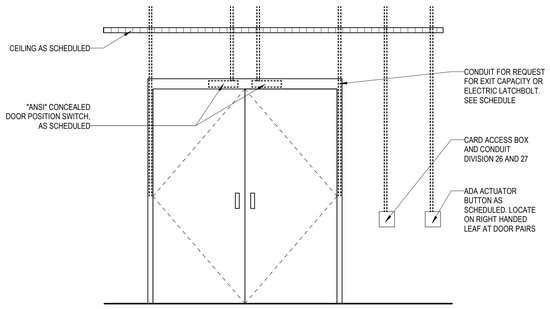
17 OVERHEAD COUNTER DOOR HEAD & SILL
SCALE: 1 1/2" = 1'-0"



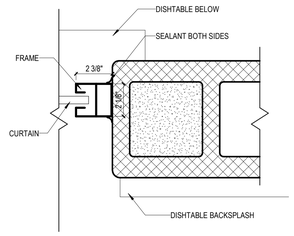
15 OVERHEAD SECURITY GRILLE HEAD & SILL
SCALE: 1 1/2" = 1'-0"



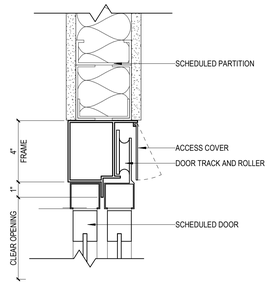
13 INTEGRAL FRAME OVERHEAD COUNTER DOOR HEAD & SILL
SCALE: 1 1/2" = 1'-0"



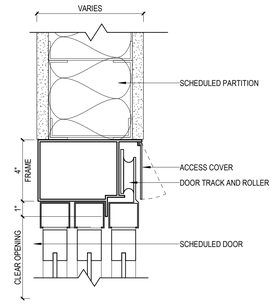
19 ELECTRICAL ROUGH IN AT DOOR FRAMES
SCALE: 1/2" = 1'-0"



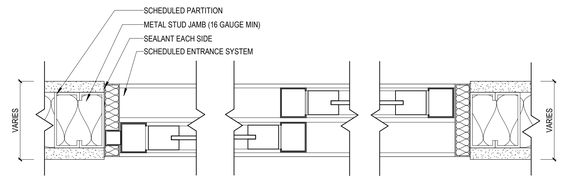
18 OVERHEAD COUNTER DOOR JAMB MOUNT
SCALE: 3" = 1'-0"



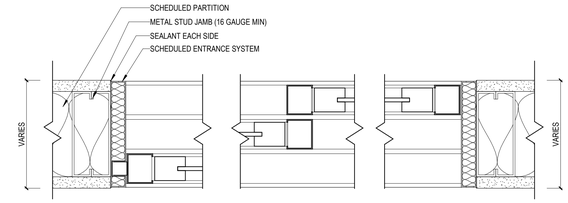
9 INSET FRAME SLIDING GLASS DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



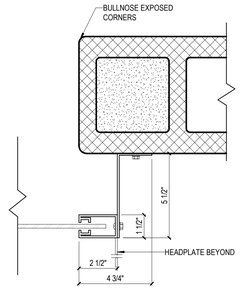
11 TELESCOPING SLIDING DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



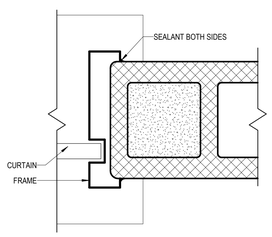
10 INSET FRAME SLIDING GLASS DOOR JAMB DETAIL
SCALE: 3" = 1'-0"



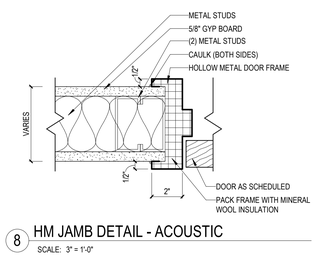
12 TELESCOPING SLIDING DOOR JAMB DETAIL
SCALE: 3" = 1'-0"



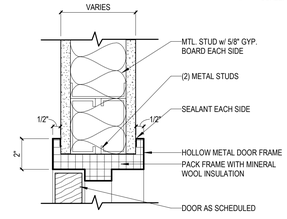
16 OVERHEAD SECURITY GRILLE JAMB - FACE MOUNT
SCALE: 3" = 1'-0"



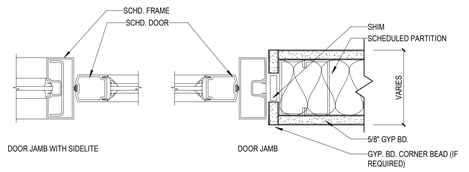
14 INTEGRAL FRAME OVERHEAD COUNTER DOOR JAMB
SCALE: 3" = 1'-0"



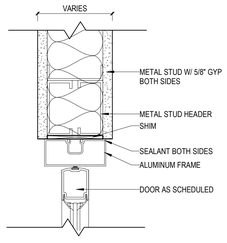
8 HM JAMB DETAIL - ACOUSTIC
SCALE: 3" = 1'-0"



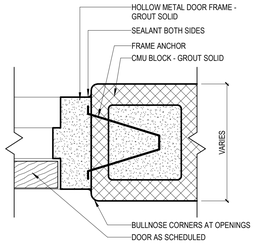
7 HM HEAD DETAIL - ACOUSTIC
SCALE: 3" = 1'-0"



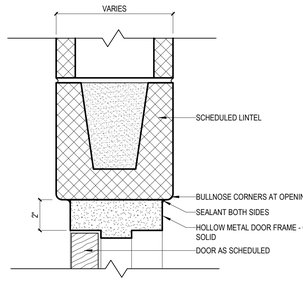
6 ALUM. JAMB DETAIL
SCALE: 3" = 1'-0"



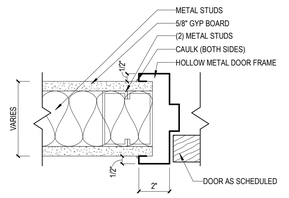
5 ALUM. HEAD DETAIL
SCALE: 3" = 1'-0"



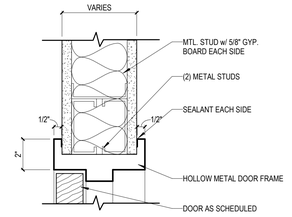
4 CMU JAMB DETAIL
SCALE: 3" = 1'-0"



3 2" HM HEAD - CMU
SCALE: 3" = 1'-0"



2 HM JAMB DETAIL
SCALE: 3" = 1'-0"

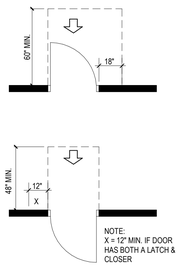


1 HM HEAD DETAIL
SCALE: 3" = 1'-0"

ADA APPROACH LEGEND

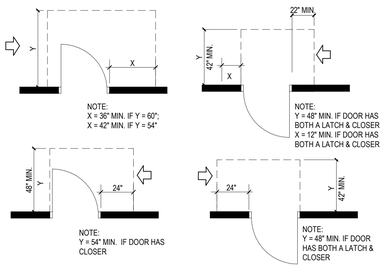
ADA ACTUATOR PUSH PLATES ARE TO BE LOCATED AT LEAST 12" OUTSIDE THE FOOTPRINT OF THE DOOR SWING, AT 30-44" A.F.F., UNLESS NOTED OTHERWISE ON DRAWINGS

FRONT APPROACHES



NOTE:
X = 12" MIN. IF DOOR HAS BOTH A LATCH & CLOSER

HINGE SIDE APPROACHES



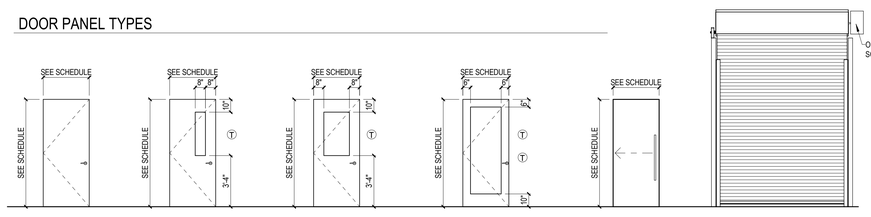
NOTE:
X = 36" MIN. IF Y = 60";
X = 42" MIN. IF Y = 54"

NOTE:
Y = 48" MIN. IF DOOR HAS BOTH A LATCH & CLOSER
X = 12" MIN. IF DOOR HAS BOTH A LATCH & CLOSER

NOTE:
Y = 54" MIN. IF DOOR HAS CLOSER

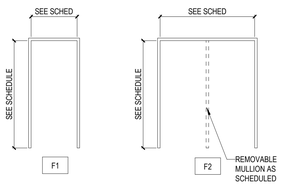
NOTE:
Y = 48" MIN. IF DOOR HAS BOTH A LATCH & CLOSER

DOOR PANEL TYPES



DOOR FRAME TYPES

*** ACOUSTIC DOORS TO HAVE FRAME PACKED WITH MINERAL WOOL INSULATION



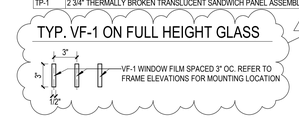
DOOR & WINDOW ABBREVIATIONS

SCW	=	SOLID CORE WOOD
WD	=	WOOD
GLZ	=	GLAZING
HM	=	HOLLOW METAL
ALUM	=	ALUMINUM
(T)	=	TEMPERED
PNT	=	PAINT
SSV	=	SAND, STAIN, AND VARNISH
PFN	=	PREFINISHED
MTL	=	METAL
ETR	=	EXISTING TO REMAIN

GLAZING SCHEDULE

G-2	1/4", VISION GLASS, TEMPERED
G-2/VF-1	1/4" VISION GLASS, TEMPERED WITH VF-1 WINDOW FILM
G-6	1/2" LAMINATED SECURITY GLAZING
IG-1	1", LOW-E INSULATED GLAZING
IG-4	SLOPED SKYLIGHT GLAZING: 1-5/16" LAMINATED INSULATED GLAZING UNIT
IG-7	1", LOW-E LAMINATED INSULATED GLAZING
IG-8	SLOPED SKYLIGHT GLAZING: 1-5/16" LAMINATED INSULATED GLAZING UNIT WITH WHITE TRANSLUCENT INTERLAYER
IG-9	1", LOW-E LAMINATED INSULATED GLAZING WITH GRADIENT FRIT PATTERN
TP-1	2 3/4" THERMALLY BROKEN TRANSLUCENT SANDWICH PANEL ASSEMBLY

TYP. VF-1 ON FULL HEIGHT GLASS



krM Architecture+

kbs CONSULTING

HB Lynch, Harrison & Brumleve, Inc.

REVISIONS

1	07/29/24	Addendum 1

07.12.24
HAMILTON SOUTHEASTERN SCHOOLS

23055 - FALL CREEK INTERMEDIATE RENOVATIONS

12011 Olio Rd, Fishers, IN 46037

CONSTRUCTION DOCUMENTS

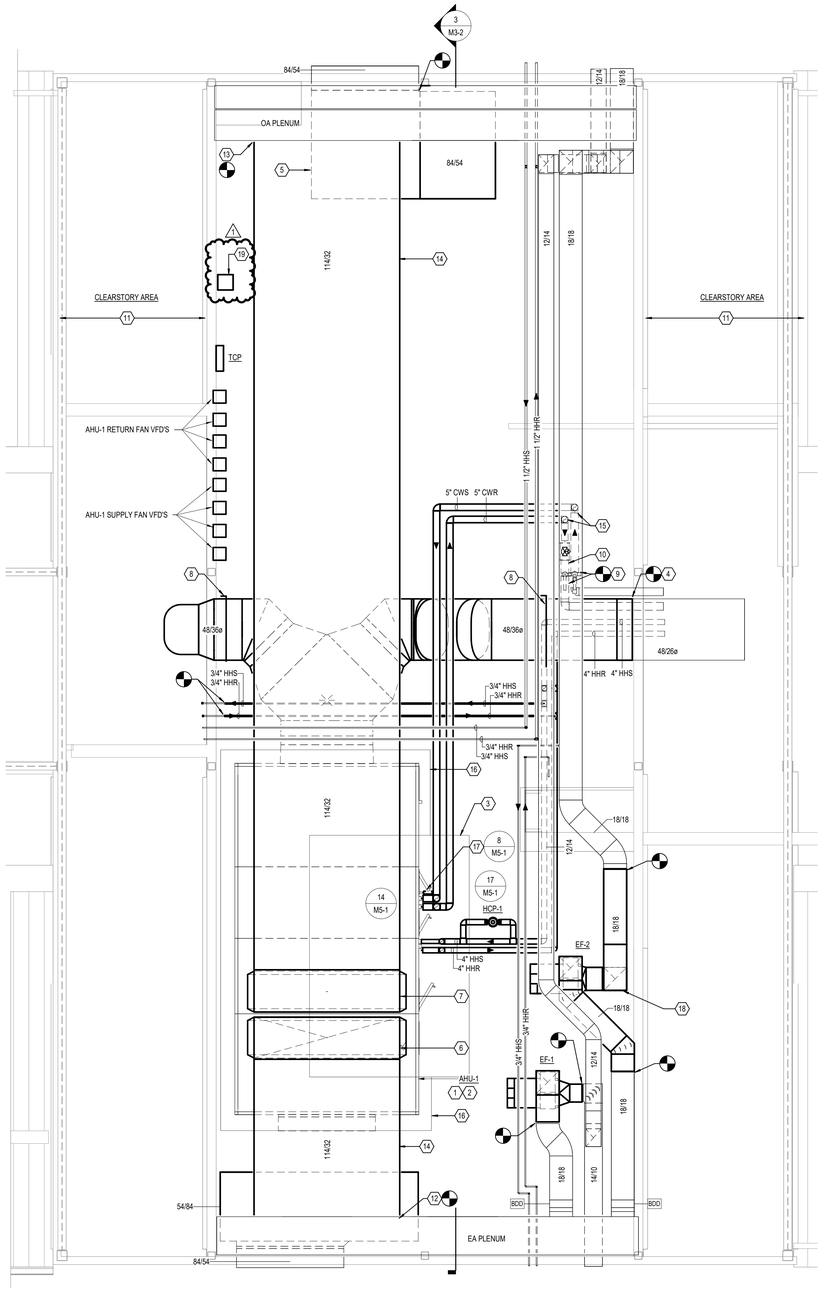
SET TO BE PRINTED IN COLOR

HAROLD D. WILLIAMS REGISTERED No. 10600161 STATE OF INDIANA ARCHITECT

CONSTRUCTION DOCUMENTS
07.12.24
krM JOB NO.
23055
DRAWN BY
Cg

DRAWING NAME
INT. FRAME DETAILS

DRAWING NO.
A8-5



1 ENLARGED - MECHANICAL MEZZANINE - AREA B
1/4" = 1'-0"

GENERAL NOTES

A REFER TO SHEET M-000 FOR GENERAL MECHANICAL NOTES, SYMBOLS AND ABBREVIATIONS.
B REFER TO DRAWING M-500 SERIES FOR MECHANICAL DETAILS.
C REFER TO DRAWING M-600 SERIES FOR MECHANICAL SCHEDULES.

SHEET KEYNOTES

1 NEW AIR HANDLING UNIT MUST BE INSTALLED THROUGH 9'x9' DOOR AND WINDOW SECTION THAT IS BEING DEMOED ON THE FIRST FLOOR. AIR HANDLER MUST BE BROUGHT THROUGH IN SECTIONS AND BUILT BACK TOGETHER IN ROOM. REFER TO AHU DETAIL PLANS FOR AHU SECTION SPLITS.
2 NEW AIR HANDLING UNIT TO SIT ON 4" EQUIPMENT RAILS.
3 EXISTING CONCRETE PAD TO REMAIN.
4 CONNECT TO EXISTING SUPPLY AIR DUCT.
5 RE-INSTALL 84"x54" LINED ELBOW.
6 CONNECT TO EXHAUST AIR OPENING ON TOP OF UNIT AS REQUIRED.
7 CONNECT 114"x32" OUTSIDE AIR DUCT TO OUTSIDE AIR CONNECTION ON TOP OF AIR HANDLING UNIT.
8 VOLUME DAMPER.
9 CONNECT NEW CWS/CWR PIPING TO EXISTING CWS/CWR. ROUTE TO AHU COOLING COIL.
10 NEW 2-WAY TEMPERATURE CONTROL VALVE.
11 CONTRACTOR TO DECIDE WHICH SIDE IS BETTER TO LIFT NEW AIR HANDLING UNIT FROM FIRST FLOOR UP INTO MEZZANINE. USE CLEARSTORY SPACE AS INDICATED. LIFT SECTIONS OF UNIT THROUGH WALL THAT HAS BEEN REMOVED ON MEZZANINE. UNITS SHALL BE BROUGHT THROUGH ENTRANCE DOORS OF SCHOOL. CONTRACTOR TO REMOVE ANY DOOR FRAMES AS REQUIRED TO FIT UNIT THROUGH DOORS. COORDINATE WITH UNIT MANUFACTURER FOR SPLIT SIZES.
12 CONNECT TO EXISITNG RELIEF AIR PLENUM.
13 CONNECT OUTSIDE AIR DUCT TO PLENUM.
14 ROUTE DUCTWORK AS TIGHT TO BOTTOM OF STRUCTURE AS POSSIBLE.
15 OFFSET PIPING UP INTO TRUSS SPACE AS REQUIRED AND ROUTE TO AIR HANDLING UNIT COOLING COIL.
16 PROVIDE NEW 4" CONCRETE HOUSKEEPING PAD AS REQUIRED FOR NEW AIR HANDLING UNIT.
17 ROUTE 2" CONDENSATE DRAIN LINE TO FLOOR DRAIN.
18 ALIGN LITEDRO PIPING TO INCLUDE TURNING VANES.
19 LOW VOLTAGE TRANSFORMER FOR PUH-5, 6, 7 & 8 ONLY. THIS TRANSFORMER TO BE ON EMERGENCY POWER.

REVISIONS

1	7/30/24	Addendum #1

07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd, Fishers, IN 46037
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
CME

DRAWING NAME
ENLARGED MECHANICAL PLANS

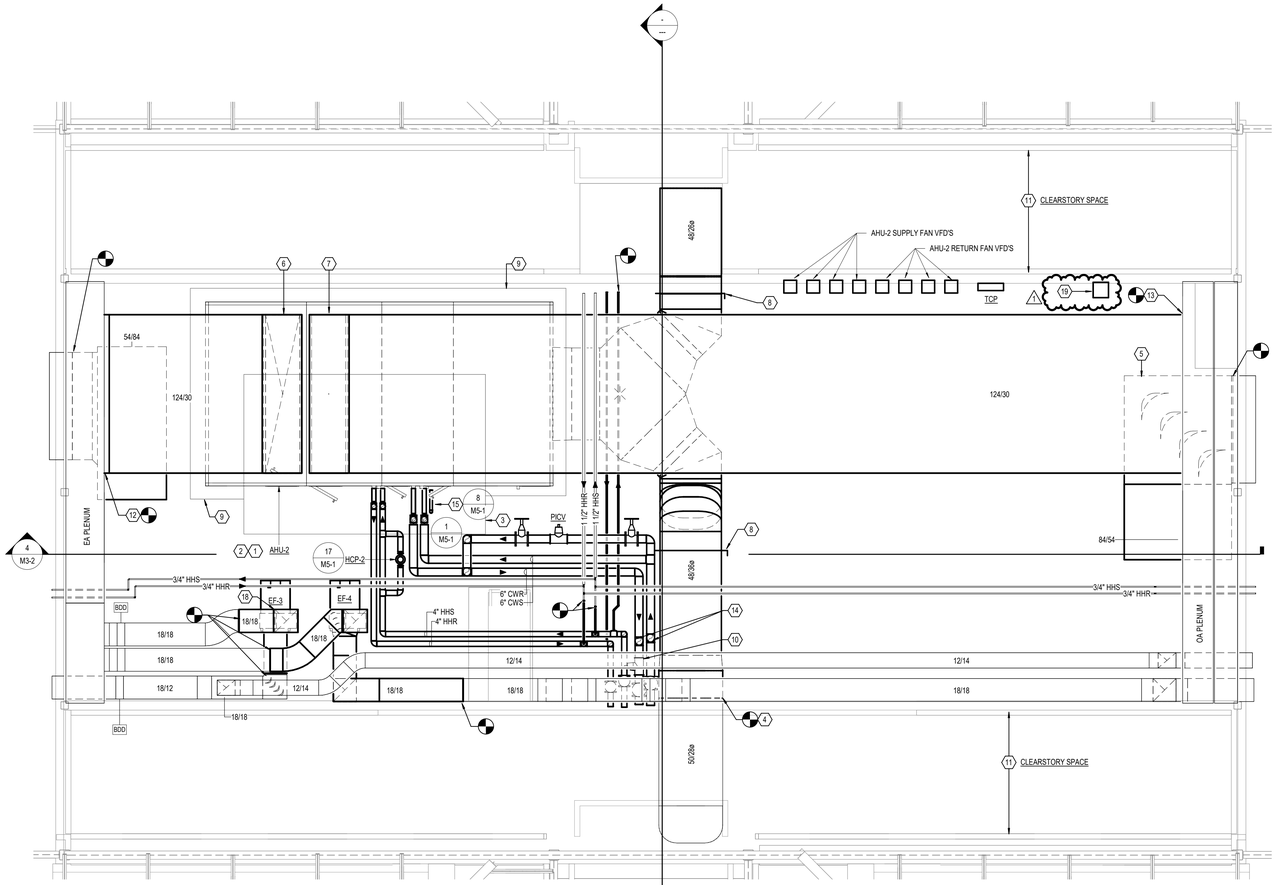
DRAWING NO.
M4-1

GENERAL NOTES

A REFER TO SHEET M-X00 FOR GENERAL MECHANICAL NOTES, SYMBOLS AND ABBREVIATIONS.
B REFER TO DRAWING M-500 SERIES FOR MECHANICAL DETAILS.
C REFER TO DRAWING M-600 SERIES FOR MECHANICAL SCHEDULES.

SHEET KEYNOTES

1 NEW AIR HANDLING UNIT MUST BE INSTALLED THROUGH EXISTING OUTSIDE AIR LOUVERS. AIR HANDLER MUST BE BROUGHT THROUGH LOUVER IN SECTIONS AND BUILT BACK TOGETHER IN ROOM. REFER TO AHU DETAIL PLANS FOR AHU SECTION SPLITS.
2 NEW AIR HANDLING UNIT TO SIT ON 4" EQUIPMENT RAILS.
3 EXISTING CONCRETE PAD TO REMAIN.
4 CONNECT TO EXISTING SUPPLY AIR DUCT.
5 RE-INSTALL 84"x54" LINED ELBOW.
6 CONNECT TO EXHAUST AIR OPENING ON TOP OF UNIT AS REQUIRED.
7 CONNECT 124"x30" OUTSIDE AIR DUCT TO OUTSIDE AIR CONNECTION ON TOP OF AIR HANDLING UNIT.
8 VOLUME DAMPER.
9 PROVIDE NEW 4" CONCRETE HOUSKEEPING PAD AS REQUIRED FOR NEW AIR HANDLING UNIT.
10 NEW 2-WAY TEMPERATURE CONTROL VALVE.
11 CONTRACTOR TO DECIDE WHICH SIDE IS BETTER TO LIFT NEW AIR HANDLING UNIT FROM FIRST FLOOR UP INTO MEZZANINE. USE CLEARSTORY SPACE AS INDICATED. LIFT SECTIONS OF UNIT THROUGH WALL THAT HAS BEEN REMOVED ON MEZZANINE. UNITS SHALL BE BROUGHT THROUGH ENTRANCE DOORS OF SCHOOL. CONTRACTOR TO REMOVE ANY DOOR FRAMES AS REQUIRED TO FIT UNIT THROUGH DOORS. COORDINATE WITH UNIT MANUFACTURER FOR SPLIT SIZES.
12 CONNECT TO EXISTING RELIEF AIR PLENUM.
13 CONNECT OUTSIDE AIR DUCT TO PLENUM.
14 OFFSET PIPING UP TO BOTTOM OF TRUSS AND ROUTE TO AIR HANDLING UNIT COOLING COIL.
15 ROUTE 2" CONDENSATE DRAIN LINE TO FLOOR DRAIN.
16 ALIGN LETTERED BOMS TO INCLUDE THRUNG VANES.
19 LOW VOLTAGE TRANSFORMER FOR PUH-1, 2, 3 & 4 ONLY. THIS TRANFORMER TO BE ON EMERGENCY POWER.



1 ENLARGED - MECHANICAL MEZZANINE - AREA D
1/4" = 1'-0"

krM Architecture+

RDC

kbsd CONSULTING

REVISIONS

1	7/30/24	Addendum #1

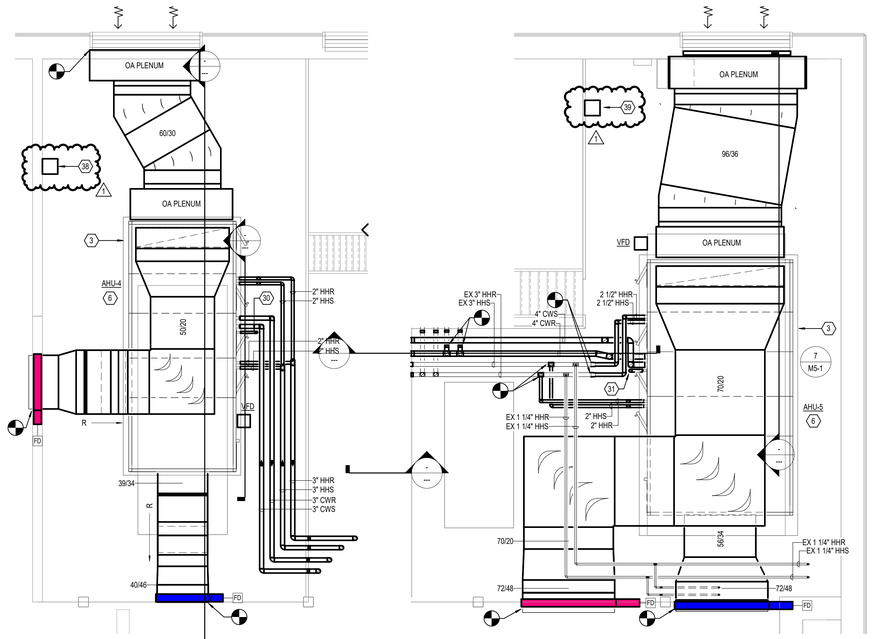
07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd. Fishers, IN 46037
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ, JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
CME

DRAWING NAME
ENLARGED MECHANICAL PLANS

DRAWING NO.
M4-2

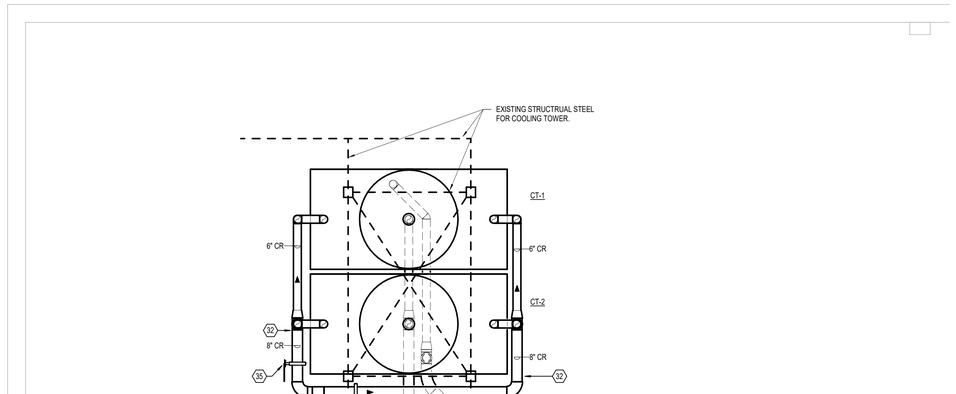


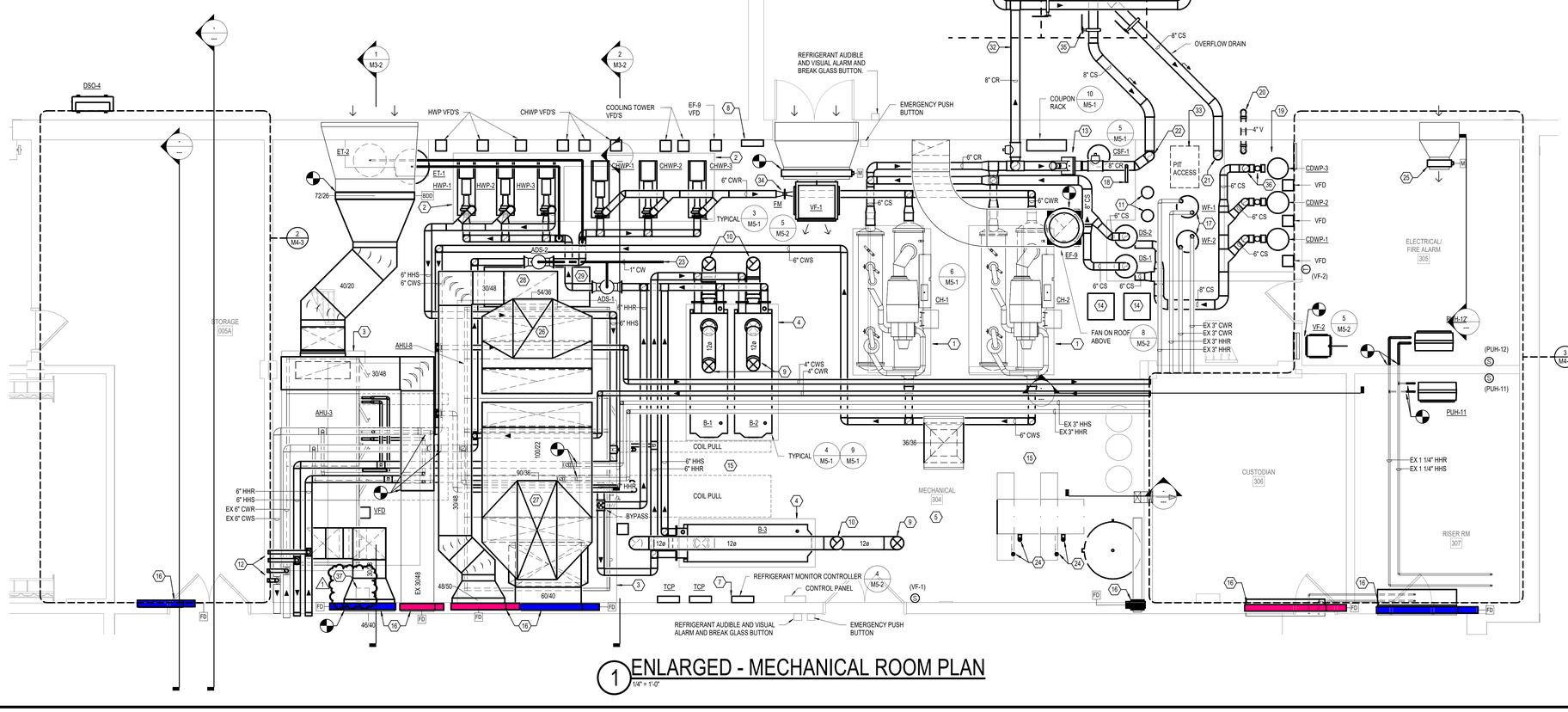
MECHANICAL ROOM MEZZANINE A MECHANICAL PLAN

2 1/4" = 1'-0"

MECHANICAL ROOM MEZZANINE B MECHANICAL PLAN

3 1/4" = 1'-0"





ENLARGED - MECHANICAL ROOM PLAN

1 1/4" = 1'-0"

GENERAL NOTES

A REFER TO SHEET M-A00 FOR GENERAL MECHANICAL NOTES, SYMBOLS AND ABBREVIATIONS.

B REFER TO DRAWING M-500 SERIES FOR MECHANICAL DETAILS.

C REFER TO DRAWING M-600 SERIES FOR MECHANICAL SCHEDULES.

SHEET KEYNOTES

1. EXTEND EXISTING 4" CONCRETE PAD AS REQURED TO ACCOMODATE NEW CHILLER.
2. EXTEND EXISTING 4" CONCRETE PAD AS REQURED TO ACCOMODATE NEW PUMPS.
3. EXTEND EXISTING 4" CONCRETE PAD AS REQURED TO ACCOMODATE NEW AIR HANDLING UNIT.
4. NEW 4" CONCRETE HOUSE KEEPING PAD FOR BOILER.
5. ALL NEW EQUIPMENT IN THIS ROOM MUST BE BROUGHT INTO BUIDLING THROUGH DOUBLE DOORS IN COOLING TOWER YARD OR ADJACENT CORRIDOR.
6. AIR HANDLING UNIT MUST BE BROUGHT THROUGH OUTSIDE AIR LOUVER IN SECTIONS.
7. PROVIDE AND INSTALL NEW REFRIGERANT MONITORING SYSTEM SIMILAR TO AGS MERLIN/GUARD CONTROLLER. AGSRTFT SERIES MONITOR, AGSAAB ALARM, AND BMS TIE-IN FOR PRE-ALARM AND HIGH-ALARM RELAYS.
8. COOLING TOWER CONTROL PANEL SHALL BE LOCATED INSIDE MECHANICAL ROOM.
9. 12" DIAMETER INTAKE FOR BOILER UP THROUGH ROOF. CONFIRM SIZE REQUIRED WITH BOILER MANUFACTURER. TERMINATE WITH MANUFACTURER APPROVED INTAKE TERMINATION KIT.
10. 12" DIAMETER DOUBLE WALL STAINLESS STEEL FLUE FOR BOILER UP THROUGH ROOF. CONFIRM SIZE REQUIRED WITH BOILER MANUFACTURER. TERMINATE WITH MANUFACTURER APPROVED TERMINATION KIT.
11. LAKOS SOLIDS RECOVERY VESSEL, MODEL SRV-816.
12. PIPING TO AHU ON MEZZANINE.
13. COOLING TOWER BYPASS VALVE.
14. COOLING TOWER CHEMICAL INJECTION STORAGE TANKS.
15. PATCH EXISTING HOLES THROUGH ROOF FROM REMOVAL OF BOILER INTAKES/FLUES TO MATCH CURRENT ROOF STRUCTURE.
16. NEW FIRE DAMPER IN DUCTWORK.
17. WATER FILTER MOUNTED ON FLOOR FOR CHILLED AND HEATING WATER SYSTEMS. CHILLED WATER SYSTEM FILTER LIKE HARMSCO HURRICANE FILTER MODEL HC/170-50 WITH 50 MICRON, MIN. 170 SQ. FT. PLEATED MEDIA FILTER. MAX 6.0 PSI P.D., FLOW THRU FILTER TO BE 134 GPM. HEATING WATER SYSTEM FILTER LIKE HARMSCO HURRICANE FILTER MODEL HC/90-50 WITH 50 MICRON, MIN. 90 SQ. FT. PLEATED MEDIA FILTER. MAX 6.0 PSI P.D. FLOW THRU FITLER TO BE 68 GPM.
18. 2" SOFT COLD WATER MAKE-UP FOR COOLING TOWERS. SEE PLUMBING DRAWINGS FOR PIPING CONTINUATION.
19. CLEAN AND EPOXY PAINT CONDENSER WATER SUMP PIT. PIT IS APPROXIMATELY 11'-0" L x 10'-0" W x 11'-0" D.
20. NEW LOCATION OF 4" SUMP VENT. TERMANTE OUTSIDE WITH ELBOW DOWN AND WIRE MESH SCREEN.
21. ROUTE NEW OVERFLOW DRAIN DOWN IN PIT WHERE OLD VENT PIPE WAS LOCATED. EXPAND EXISTING HOLE IN PIT LID AS REQUIRED FOR LARGER PIPE.
22. ROUTE NEW CONDENSER WATER PIPE DOWN IN PIT AS REQUIRED.
23. 1" SOFT COLD WATER MAKE-UP. SEE PLUMBING DRAWINGS FOR PIPING CONTINUATION.
24. 3" PVC WATER HEATER FLUE AND INTAKE UP THROUGH ROOF. VERIFY ALL FLUE AND INTAKE REQUIREMENTS WITH WATER HEATER MANUFACTURER. TERMINATE INTAKE WITH GOOSENECK AT 3'-0" ABOVE ROOF. TERMINATE FLUE WITH MANUFACTURER APPROVED FLUE VENT CAP AS REQUIRED.
25. PROVIDE AND INSTALL NEW MOTORIZED DAMPER TO BE INTERLOCKED WITH THE OPERATION OF VF-2.
26. EXHAUST AIR DUCT UP THROUGH ROOF TO GRAVITY HOOD.
27. SUPPLYR AIR DUCT UP THROUGH ROOF TO GRAVITY HOOD.
28. RETURN AIR DUCT DOWN TO RETURN AIR PLENUM OFF BACK OF UNIT.
29. RETURN AIR PLENUM AS REQUIRED.
30. ROUTE 1-1/2" CONDENSATE DRAIN FOR FLOOR DRAIN.
31. ROUTE 2" CONDENSATE DRAIN LINE TO FLOOR DRAIN.
32. SUPPORT CONDENSER WATER PIPING FROM COOLING TOWER SUPPORT STEEL.
33. PROVIDE AND INSTALL NEW SUMP PIT ACCESS DOOR. DOOR SHALL BE POLYMER CORROSION RESISTANT AND WALKABLE.
34. FLOW METER. ALLOW FOR UPSTREAM AND DOWNSTREAM STRAIGHT PIPE LENGTH REQUIRED BY FLOW METER MANUFACTURER.
35. BUTTERFLY VALVE, TYPICAL.
36. DISCHARGE ISOLATION VALVE, CHECK VALVE AND PRESSURE GAUGE ON VERTICAL TURBINE PUMP, TYPICAL.
37. LOW VOLTAGE CONTROLS TRANSFORMER FOR AHU-3 ONLY. THIS TRANFORMER TO BE ON EMERGENCY POWER.
38. LOW VOLTAGE CONTROLS TRANSFORMER FOR AHU-4 ONLY. THIS TRANFORMER TO BE ON EMERGENCY POWER.
39. LOW VOLTAGE CONTROLS TRANSFORMER FOR AHU-5 ONLY. THIS TRANFORMER TO BE ON EMERGENCY POWER.

1

REVISIONS

1	7/30/24	Addendum #1

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07.12.2024

HAMILTON SOUTHEASTERN SCHOOL CORPORATION

23055 - FALL CREEK INTERMEDIATE RENOVATIONS

12011 Olio Rd, Fishers, IN 46037

CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER

07.12.2024

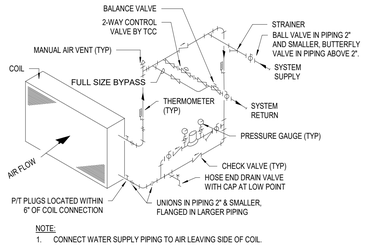
CONSTRUCTION DOCUMENTS
07.12.2024

krM JOB NO.
23055

DRAWN BY
CME

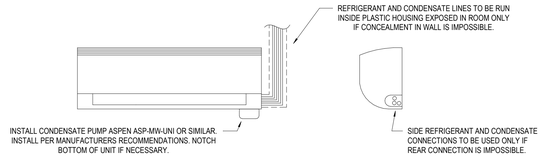
DRAWING NAME
ENLARGED MECHANICAL PLANS

DRAWING NO.
M4-3



NOTE:
1. CONNECT WATER SUPPLY PIPING TO AIR LEAVING SIDE OF COIL.

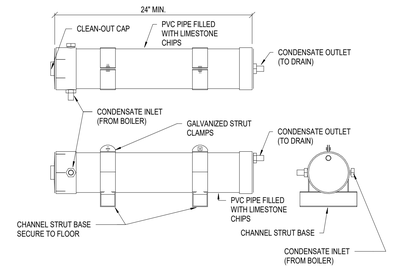
17 PUMPED COIL PIPING DETAIL
NOT TO SCALE



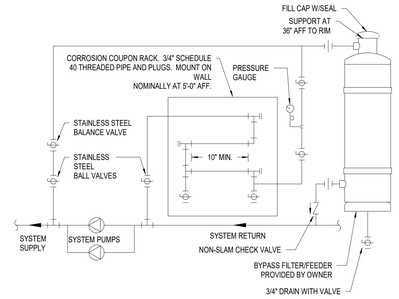
GENERAL NOTES

1. CONTRACTOR TO INSTALL ALL REFRIGERANT PIPING, POWER CORDS, AND DRAIN PIPING BEHIND WALL IF APPLICABLE. UTILIZE DETAIL IF BEHIND WALL IS NOT APPLICABLE.
2. ALL REFRIGERANT LINES, POWER CORDS, AND DRAIN LINES SHALL BE RAN LEVEL, PARALLEL, AND NOT TO BE EXPOSED.
3. CLOSED CELL FOAM INSULATION IS REQUIRED TO BE MINIMUM 1-INCH FOR LIQUID AND SUCTION LINES.
4. NO TAPE IS ALLOWED FOR INSULATION. ARMAFLEX GLUE ONLY.
5. CONTRACTOR TO INSTALL OVER DOOR IN ALL IT/MDF OR ELECTRICAL ROOMS UNLESS OTHERWISE NOTED.
6. CONNECTION TO MAIN DRAIN TO BE ON THE OUTSIDE OF THE IT/MDF OR ELECTRICAL ROOM IF APPLICABLE.
7. IF UNIT CANNOT GRAVITY DRAIN, PROVIDE CONDENSATE PUMP.

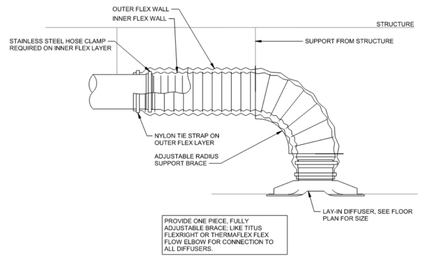
13 MINI-SPLIT WALL CASSETTE MOUNTING DETAIL
NOT TO SCALE



9 CONDENSATE NEUTRALIZER DETAIL
NOT TO SCALE



5 CHEMICAL FILTER/FEEDER DETAIL
NOT TO SCALE



JOINING AND ATTACHING FLEXIBLE DUCT SPECIFICATION:

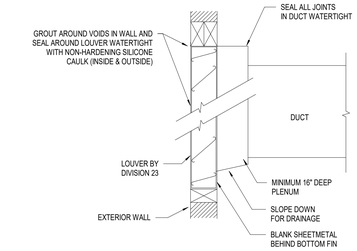
A. METALLIC FLEXIBLE DUCT SHALL BE ATTACHED USING A MINIMUM OF THREE #8 SHEET METAL SCREWS EQUALLY SPACED AROUND THE DUCT'S CIRCUMFERENCE; DUCTS LARGER THAN 12"Ø SHALL HAVE A MINIMUM OF FIVE #8 SHEET METAL SCREWS. SCREWS SHALL BE LOCATED AT LEAST 1/2" FROM THE DUCT END.

B. NON-METALLIC FLEXIBLE DUCT SHALL BE SECURED TO THE SLEEVE OR COLLAR USING A DRAW BAND. IF THE DUCT COLLAR EXCEEDS 12"Ø, THE DRAW BAND MUST BE POSITIONED BEHIND A BEAD ON THE METAL COLLAR.

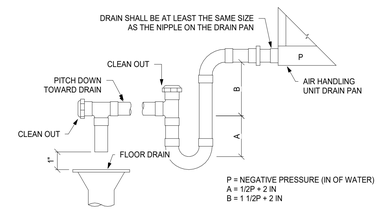
C. INSULATION AND VAPOR BARRIERS PRESENT ON FACTORY-FABRICATED DUCTS SHALL BE FITTED OVER THE CORE CONNECTION AND SHALL BE SUPPLEMENTALLY SECURED WITH A DRAW BAND.

D. FLEXIBLE DUCT SEALING SHALL BE A CLASS "B" SEAL FOR LOW PRESSURE SUPPLY.

16 TYPICAL SUPPLY DIFFUSER INSTALLATION
NOT TO SCALE



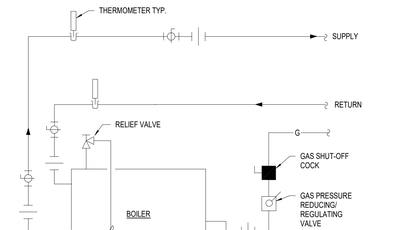
12 LOUVER INSTALLATION DETAIL
NOT TO SCALE



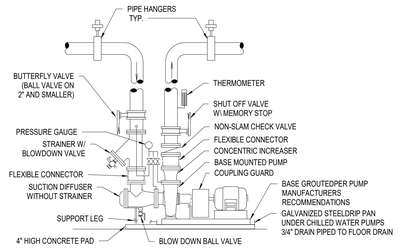
DRAIN PAN TRAP SIZING

STATIC PRESSURE AT DRAIN	NEGATIVE PRESSURE (IN OF WATER)	
	A	B
0.50	2.25	2.75
1.00	2.50	3.50
1.50	2.75	4.25
2.00	3.00	5.00
2.50	3.25	5.75
3.00	3.50	6.50
3.50	3.75	7.25
4.00	4.00	8.00
4.50	4.25	8.75
5.00	4.50	9.50
5.50	4.75	10.25
6.00	5.00	11.00
6.50	5.25	11.75
7.00	5.50	12.50
7.50	5.75	13.25
8.00	6.00	14.00
8.50	6.25	14.75
9.00	6.50	15.50
9.50	6.75	16.25
10.00	7.00	17.00

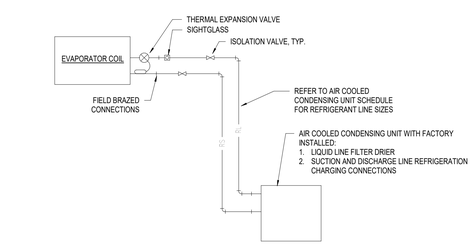
8 CONDENSATE DRAIN TRAP DETAIL
NOT TO SCALE



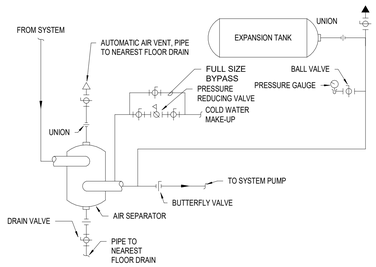
4 BOILER PIPING DETAIL
NOT TO SCALE



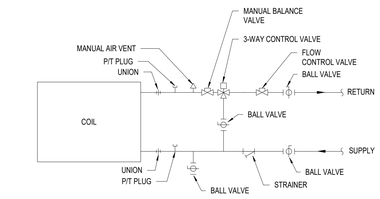
3 BASE MOUNTED, END-SUCTION PUMP DETAIL
NOT TO SCALE



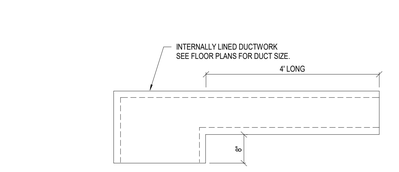
15 REFRIGERATION PIPING DETAIL
NOT TO SCALE



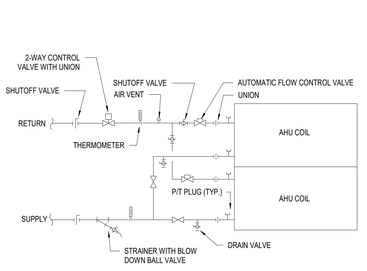
11 HORIZONTAL AIR SEPARATOR PIPING DIAGRAM
NOT TO SCALE



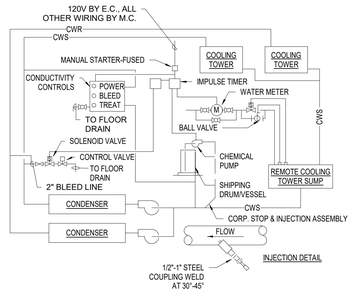
7 COIL PIPING DETAIL - 3-WAY
NOT TO SCALE



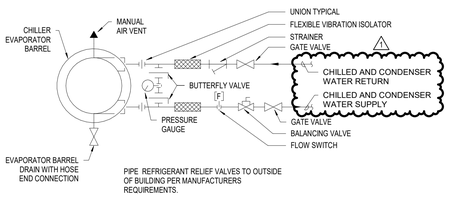
2 AIR TRANSFER DUCT DETAIL
NOT TO SCALE



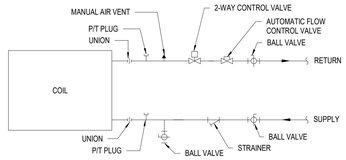
14 MULTIPLE AHU COIL 2-WAY PIPING DETAIL
NOT TO SCALE



10 COOLING TOWER CHEM. TREATMENT DETAIL
NOT TO SCALE



6 CHILLER PIPING DETAIL
NOT TO SCALE



1 2-WAY COIL PIPING DETAIL
NOT TO SCALE

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REVISIONS

1	7/30/24	Addendum #1

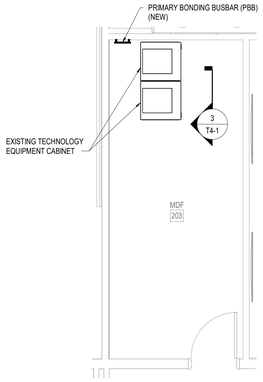
07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd, Fishers, IN 46037
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

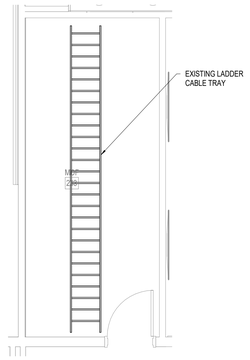
CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
CME

DRAWING NAME
MECHANICAL DETAILS

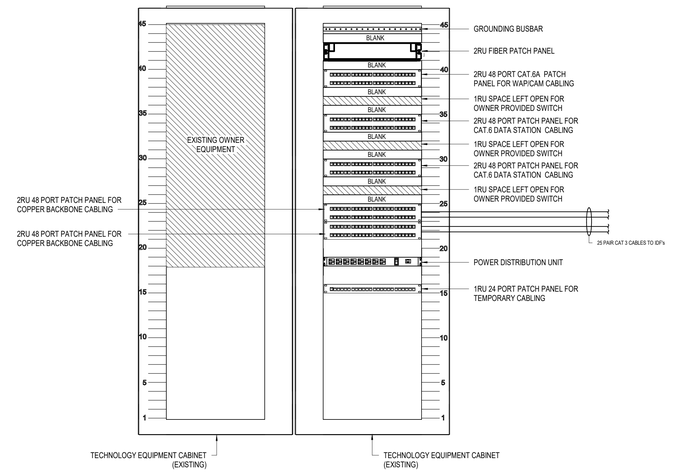
DRAWING NO.
M5-1



1 ENLARGED TECHNOLOGY PLAN - MDF-203
1/4" = 1'-0"

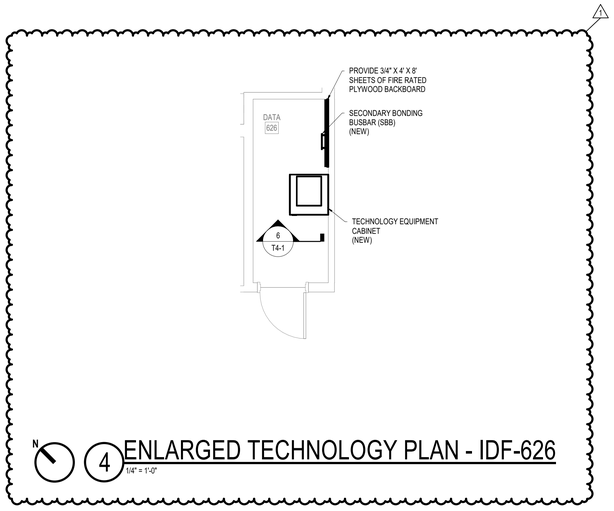


2 ENLARGED TECHNOLOGY PATHWAY PLAN - MDF-203
1/4" = 1'-0"

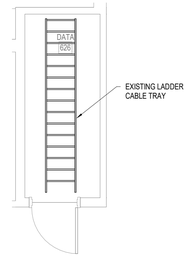


NOTE:
COORDINATE INSTALLATION OF ALL RACK MOUNTED
EQUIPMENT WITH OWNER'S REMAINING EQUIPMENT.

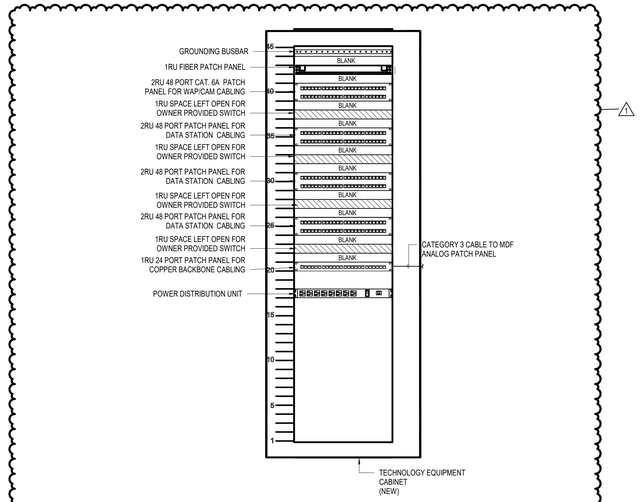
3 MDF-203 - TECHNOLOGY CABINET ELEVATION
1" = 1'-0"



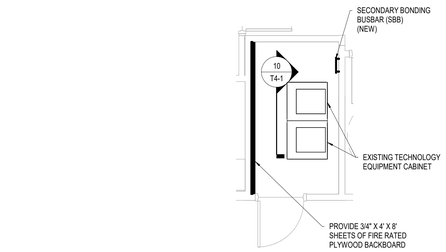
4 ENLARGED TECHNOLOGY PLAN - IDF-626
1/4" = 1'-0"



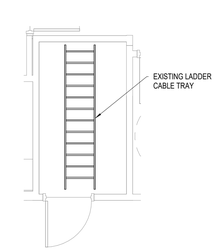
5 ENLARGED TECHNOLOGY PATHWAY PLAN - IDF-626
1/4" = 1'-0"



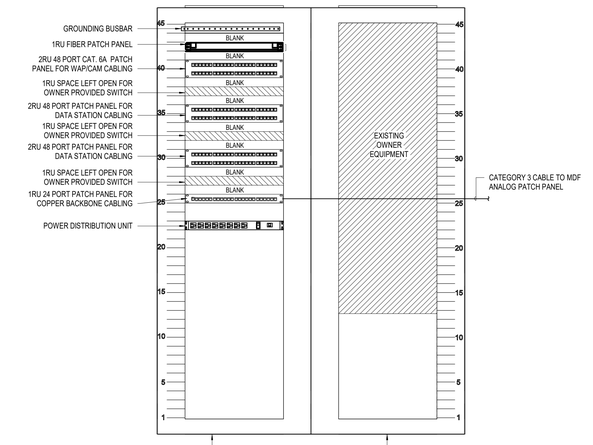
6 IDF-626 - TECHNOLOGY RACK ELEVATION
1" = 1'-0"



8 ENLARGED TECHNOLOGY PLAN - IDF-108
1/4" = 1'-0"



9 ENLARGED TECHNOLOGY PATHWAY PLAN - IDF-108
1/4" = 1'-0"



NOTE:
COORDINATE INSTALLATION OF ALL RACK MOUNTED
EQUIPMENT WITH OWNER'S REMAINING EQUIPMENT.

10 IDF-108 - TECHNOLOGY RACK ELEVATION
1" = 1'-0"

REVISIONS

1	7/29/24	Addendum #1

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HAMILTON SOUTHEASTERN SCHOOL CORPORATION
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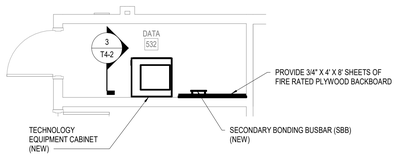
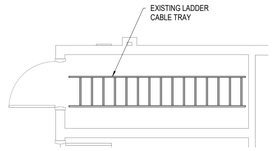
07.12.2024
krM JOB NO.
23055
DRAWN BY
EAG

DRAWING NAME
TECHNOLOGY ENLARGED PLANS

DRAWING NO.
T4-1



N 1 ENLARGED TECHNOLOGY PLAN - IDF-532
1/4" = 1'-0"



N 2 ENLARGED TECHNOLOGY PATHWAY PLAN - IDF-532
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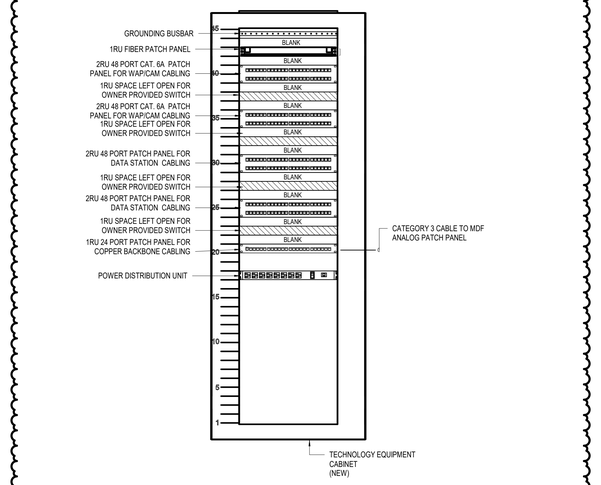
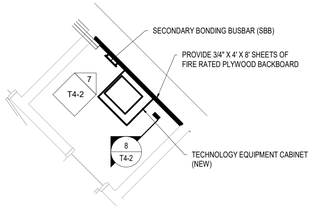
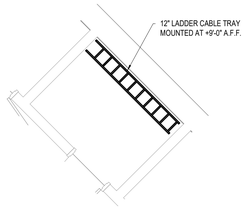


N 3 IDF-532 - TECHNOLOGY RACK ELEVATION
1" = 1'-0"



N 5 ENLARGED TECHNOLOGY PLAN - IDF-400E
1/4" = 1'-0"



N 6 ENLARGED TECHNOLOGY PATHWAY PLAN - IDF-400E
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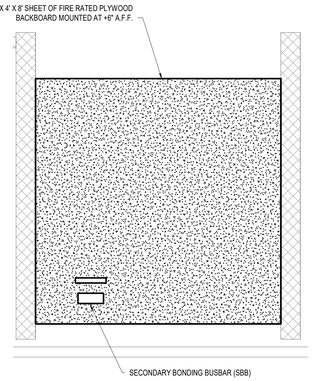
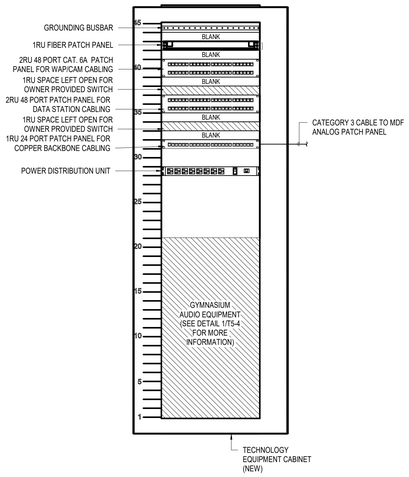


N 7 IDF-400E - NORTH ELEVATION
1/2" = 1'-0"



N 8 IDF-400E - TECHNOLOGY RACK ELEVATION
1" = 1'-0"

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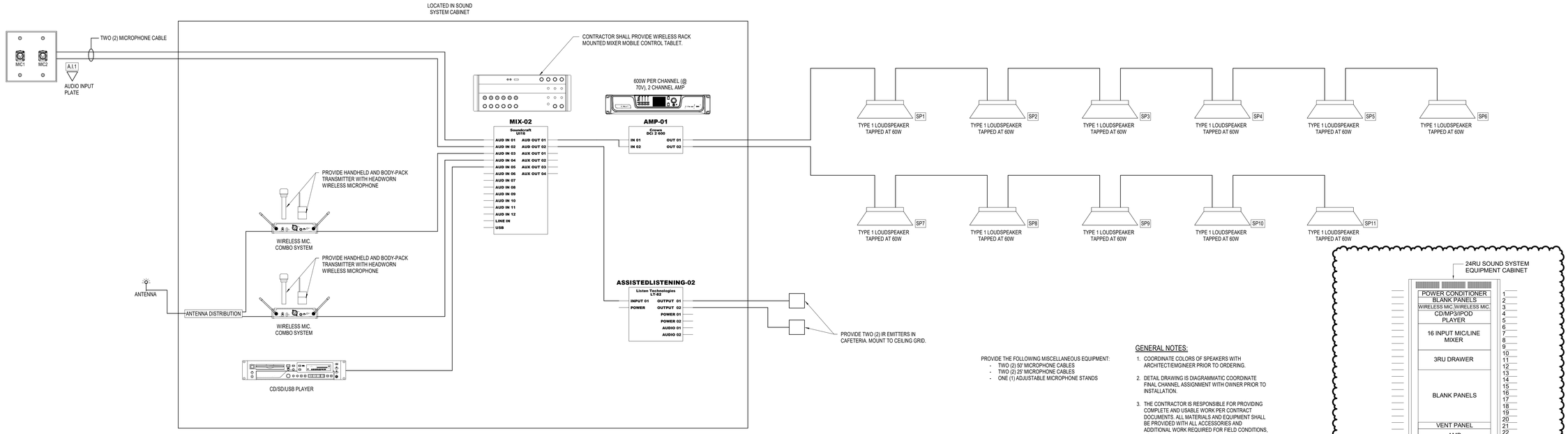
DRAWING NAME
TECHNOLOGY ENLARGED PLANS

DRAWING NO.
T4-2

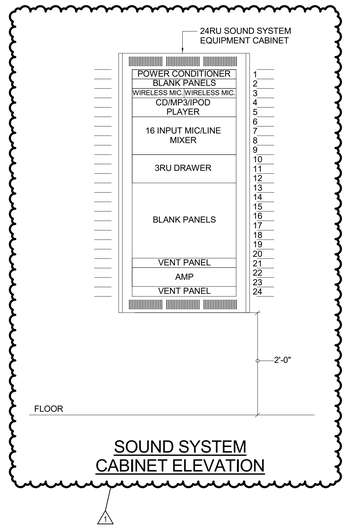


1 CAFETERIA SOUND SYSTEM
NOT TO SCALE

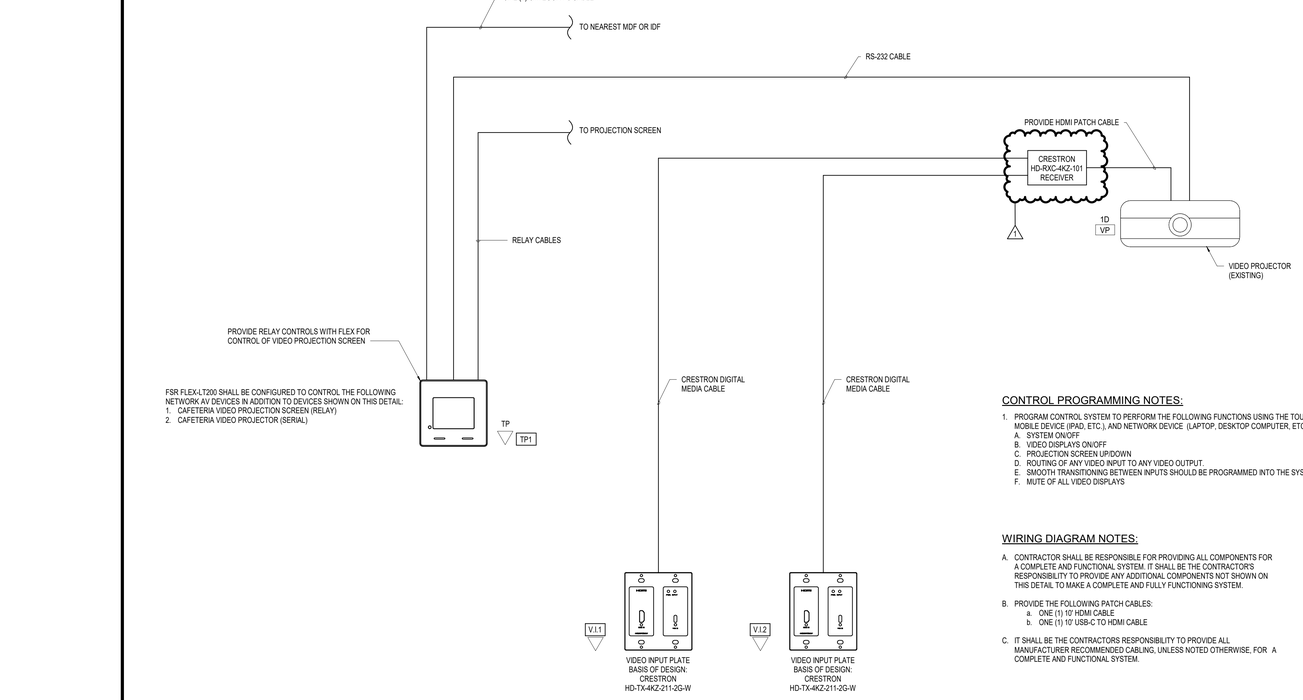
PROVIDE THE FOLLOWING MISCELLANEOUS EQUIPMENT:
- TWO (2) 50' MICROPHONE CABLES
- TWO (2) 25' MICROPHONE CABLES
- ONE (1) ADJUSTABLE MICROPHONE STANDS

GENERAL NOTES:

1. COORDINATE COLORS OF SPEAKERS WITH ARCHITECT/EMGINEER PRIOR TO ORDERING.
2. DETAIL DRAWING IS DIAGRAMMATIC COORDINATE FINAL CHANNEL ASSIGNMENT WITH OWNER PRIOR TO INSTALLATION.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE AND USABLE WORK PER CONTRACT DOCUMENTS. ALL MATERIALS AND EQUIPMENT SHALL BE PROVIDED WITH ALL ACCESSORIES AND ADDITIONAL WORK REQUIRED FOR FIELD CONDITIONS, AS WELL AS ADDITIONAL WORK AND ACCESSORIES REQUIRED FOR COMPLETE, USABLE, AND FULLY FUNCTIONAL CONSTRUCTION AND SYSTEMS, EVEN IF NOT EXPLICITLY SPECIFIED OR INDICATED. COMMUNICATIONS SYSTEM IN THIS CONTRACT SHALL BE PROVIDED AS COMPLETE AND OPERABLE SYSTEMS IN FULL COMPLIANCE WITH REQUIREMENTS ON DRAWINGS AND SPECIFICATION REQUIREMENTS.
4. THE MANUFACTURER INDICATED IN THE SPECIFICATIONS WAS USED TO DETERMINE THE LAYOUT OF THE SOUND SYSTEM. ADDITIONAL MANUFACTURERS SHALL BE ACCEPTABLE WHERE INDICATED IN THE SPECIFICATIONS. IF ANOTHER MANUFACTURER IS SELECTED IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY ADDITIONAL CABLING AND EQUIPMENT TO MEET THE COVERAGE AND PERFORMANCE INDICATED.



SOUND SYSTEM CABINET ELEVATION



CONTROL PROGRAMMING NOTES:

1. PROGRAM CONTROL SYSTEM TO PERFORM THE FOLLOWING FUNCTIONS USING THE TOUCHPANEL, MOBILE DEVICE (IPAD, ETC.), AND NETWORK DEVICE (LAPTOP, DESKTOP COMPUTER, ETC.).
   A. SYSTEM ON/OFF
   B. VIDEO DISPLAYS ON/OFF
   C. PROJECTION SCREEN UP/DOWN
   D. ROUTING OF ANY VIDEO INPUT TO ANY VIDEO OUTPUT.
   E. SMOOTH TRANSITIONING BETWEEN INPUTS SHOULD BE PROGRAMMED INTO THE SYSTEM.
   F. MUTE OF ALL VIDEO DISPLAYS

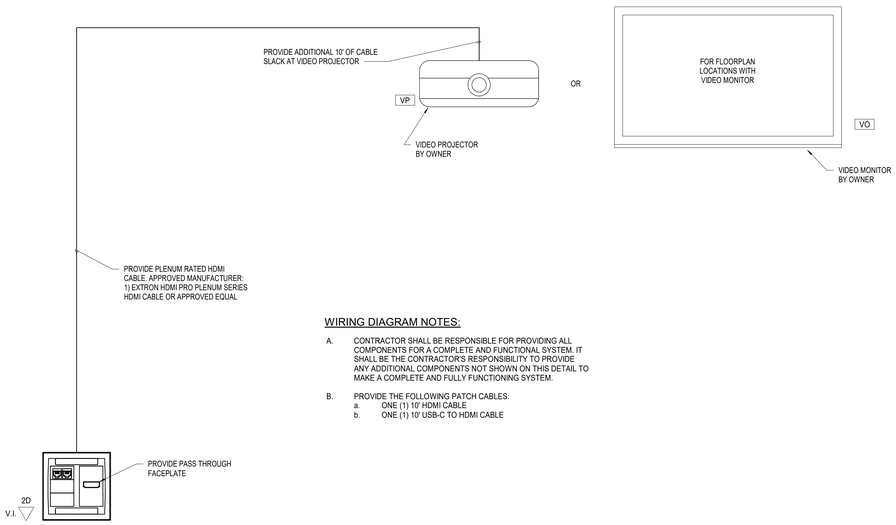
WIRING DIAGRAM NOTES:

A. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL SYSTEM. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ANY ADDITIONAL COMPONENTS NOT SHOWN ON THIS DETAIL TO MAKE A COMPLETE AND FULLY FUNCTIONING SYSTEM.

B. PROVIDE THE FOLLOWING PATCH CABLES:
   a. ONE (1) 10' HDMI CABLE
   b. ONE (1) 10' USB-C TO HDMI CABLE

C. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL MANUFACTURER RECOMMENDED CABLING, UNLESS NOTED OTHERWISE, FOR A COMPLETE AND FUNCTIONAL SYSTEM.

2 CAFETERIA VIDEO DETAIL
NOT TO SCALE



WIRING DIAGRAM NOTES:

A. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL SYSTEM. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ANY ADDITIONAL COMPONENTS NOT SHOWN ON THIS DETAIL TO MAKE A COMPLETE AND FULLY FUNCTIONING SYSTEM.

B. PROVIDE THE FOLLOWING PATCH CABLES:
   a. ONE (1) 10' HDMI CABLE
   b. ONE (1) 10' USB-C TO HDMI CABLE

3 TYPICAL VIDEO INPUT AND VIDEO DISPLAY DETAIL
NOT TO SCALE

REVISIONS

1	7/30/24	Addendum #1

HAMILTON SOUTHEASTERN SCHOOL CORPORATION
07.12.2024

23055 - FALL CREEK INTERMEDIATE RENOVATIONS

12011 Olio Rd. Fishers, IN 46037

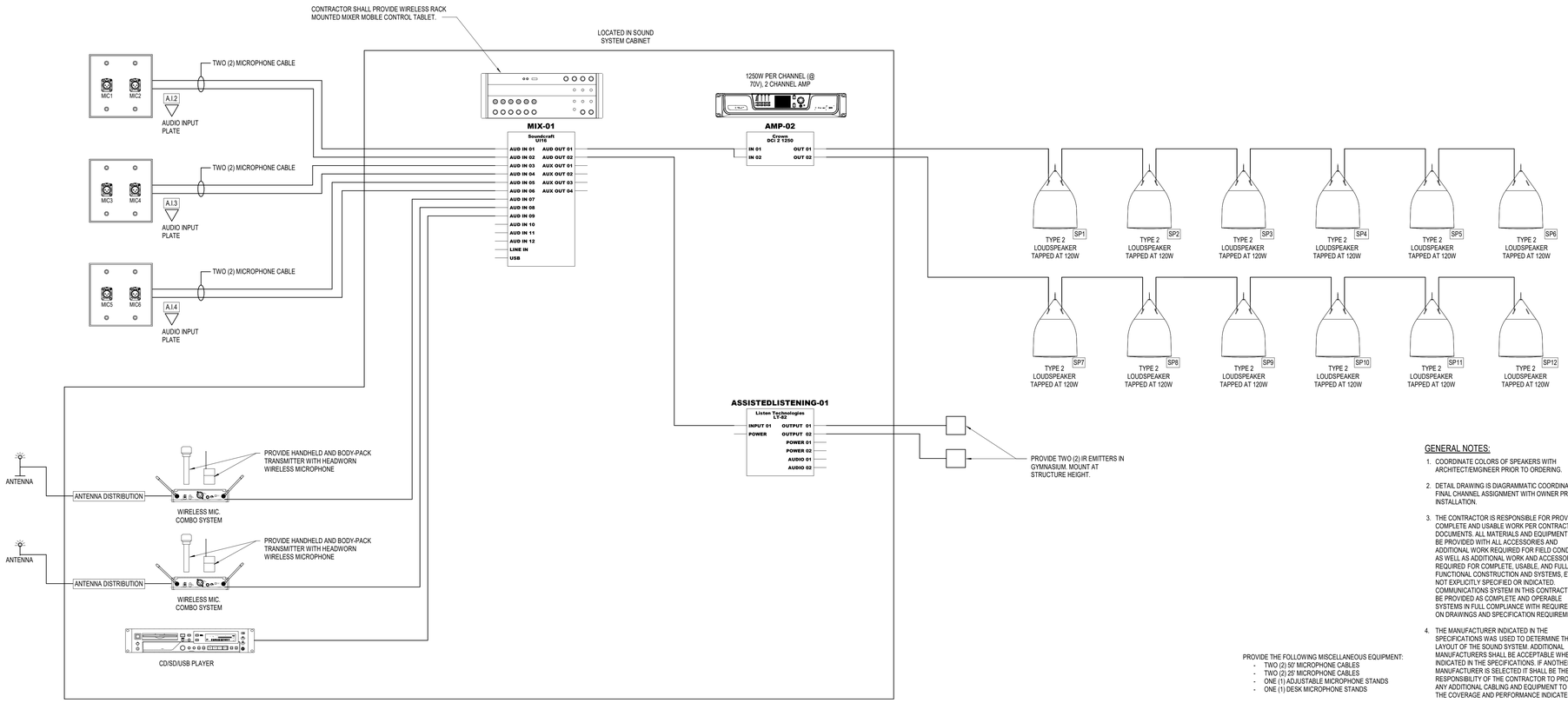
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER
07.12.2024

CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
EAG

DRAWING NAME
TECHNOLOGY DETAILS

DRAWING NO.
T5-4



1 GYMNASIUM SOUND SYSTEM

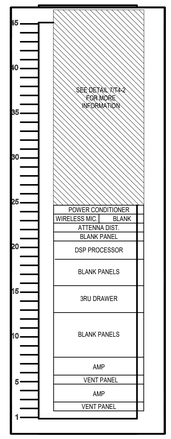
NOT TO SCALE

PROVIDE THE FOLLOWING MISCELLANEOUS EQUIPMENT:

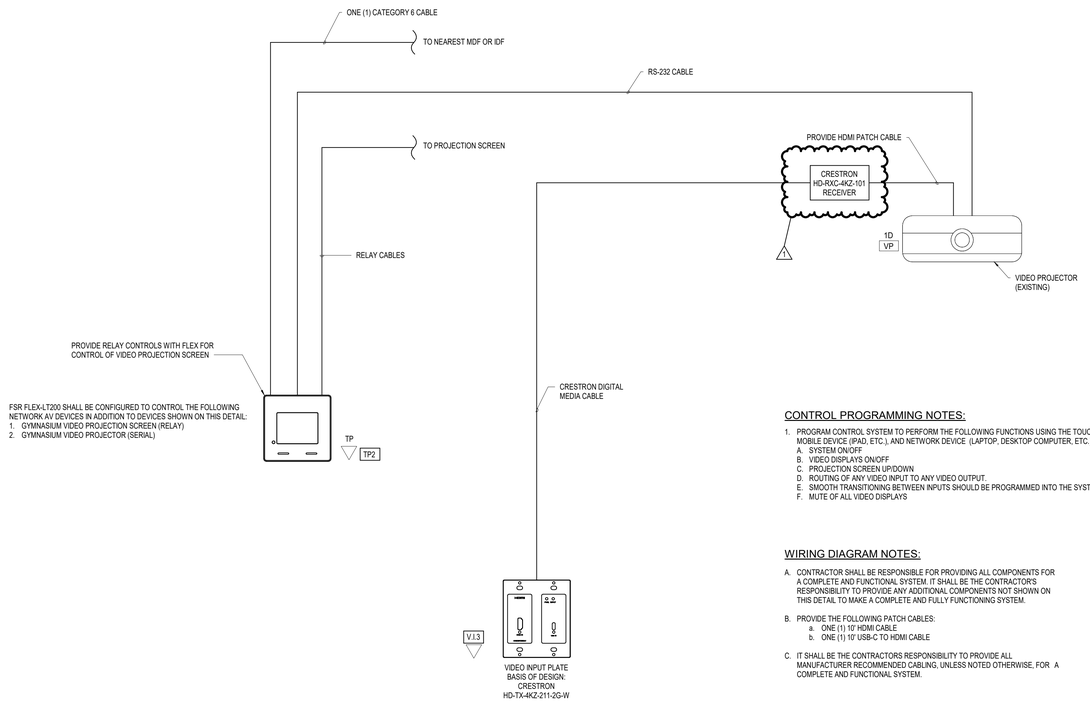
- TWO (2) 50' MICROPHONE CABLES
- TWO (2) 25' MICROPHONE CABLES
- ONE (1) ADJUSTABLE MICROPHONE STANDS
- ONE (1) DESK MICROPHONE STANDS

GENERAL NOTES:

1. COORDINATE COLORS OF SPEAKERS WITH ARCHITECT/EMGINEER PRIOR TO ORDERING.
2. DETAIL DRAWING IS DIAGRAMMATIC COORDINATE FINAL CHANNEL ASSIGNMENT WITH OWNER PRIOR TO INSTALLATION.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE AND USABLE WORK PER CONTRACT DOCUMENTS. ALL MATERIALS AND EQUIPMENT SHALL BE PROVIDED WITH ALL ACCESSORIES AND ADDITIONAL WORK REQUIRED FOR FIELD CONDITIONS, AS WELL AS ADDITIONAL WORK AND ACCESSORIES REQUIRED FOR COMPLETE, USABLE, AND FULLY FUNCTIONAL CONSTRUCTION AND SYSTEMS, EVEN IF NOT EXPLICITLY SPECIFIED OR INDICATED. COMMUNICATIONS SYSTEM IN THIS CONTRACT SHALL BE PROVIDED AS COMPLETE AND OPERABLE SYSTEMS IN FULL COMPLIANCE WITH REQUIREMENTS ON DRAWINGS AND SPECIFICATION REQUIREMENTS.
4. THE MANUFACTURER INDICATED IN THE SPECIFICATIONS WAS USED TO DETERMINE THE LAYOUT OF THE SOUND SYSTEM. ADDITIONAL MANUFACTURERS SHALL BE ACCEPTABLE WHERE INDICATED IN THE SPECIFICATIONS. IF ANOTHER MANUFACTURER IS SELECTED IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY ADDITIONAL CABLING AND EQUIPMENT TO MEET THE COVERAGE AND PERFORMANCE INDICATED.



MAIN GYMNASIUM SOUND SYSTEM EQUIPMENT RACK ELEVATION



2 GYMNASIUM VIDEO DETAIL

NOT TO SCALE

CONTROL PROGRAMMING NOTES:

1. PROGRAM CONTROL SYSTEM TO PERFORM THE FOLLOWING FUNCTIONS USING THE TOUCHPANEL, MOBILE DEVICE (IPAD, ETC.), AND NETWORK DEVICE (LAPTOP, DESKTOP COMPUTER, ETC.).
   A. SYSTEM ON/OFF
   B. VIDEO DISPLAYS ON/OFF
   C. PROJECTION SCREEN UP/DOWN
   D. ROUTING OF ANY VIDEO INPUT TO ANY VIDEO OUTPUT.
   E. SMOOTH TRANSITIONING BETWEEN INPUTS SHOULD BE PROGRAMMED INTO THE SYSTEM.
   F. MUTE OF ALL VIDEO DISPLAYS

WIRING DIAGRAM NOTES:

A. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL COMPONENTS FOR A COMPLETE AND FUNCTIONAL SYSTEM. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ANY ADDITIONAL COMPONENTS NOT SHOWN ON THIS DETAIL TO MAKE A COMPLETE AND FULLY FUNCTIONING SYSTEM.

B. PROVIDE THE FOLLOWING PATCH CABLES:
   a. ONE (1) 10' HDMI CABLE
   b. ONE (1) 10' USB-C TO HDMI CABLE

C. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL MANUFACTURER RECOMMENDED CABLING, UNLESS NOTED OTHERWISE, FOR A COMPLETE AND FUNCTIONAL SYSTEM.

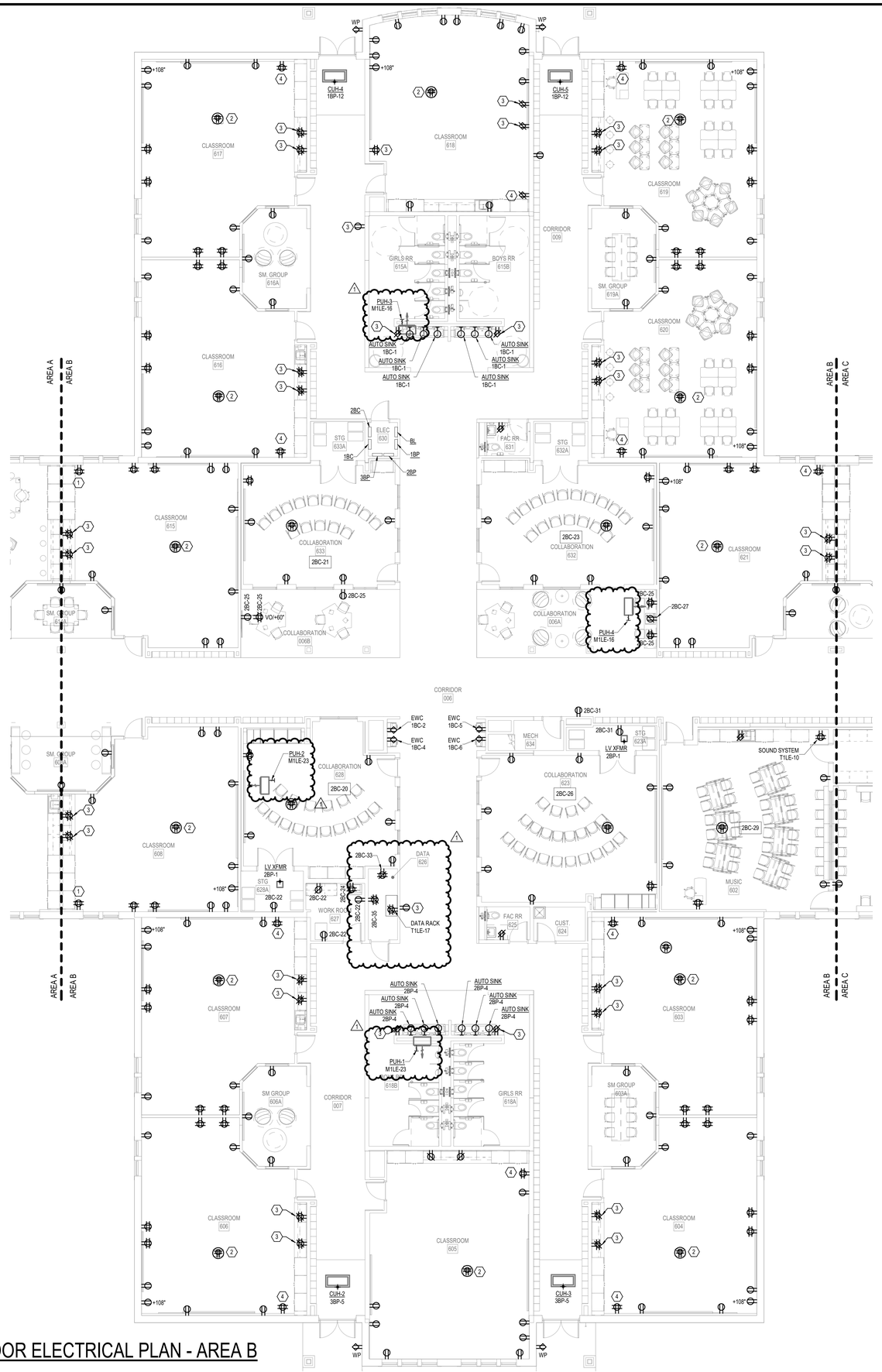
REVISIONS

1	7/29/24	Addendum #1

07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd. Fishers, IN 46037
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
EAG
DRAWING NAME
TECHNOLOGY DETAILS
DRAWING NO.
T5-5



N

1 FIRST FLOOR ELECTRICAL PLAN - AREA B
1/8" = 1'-0"

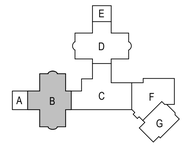
GENERAL NOTES

A. REFER TO SHEET E0-0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
B. REFER TO E6 SERIES SHEETS FOR PANEL SCHEDULES.
C. VERIFY HEIGHT OF ALL COUNTEROP RECEPTACLES WITH ARCHITECTURAL ELVATIONS PRIOR TO ROUGH-IN.
D. RECEPTACLES TAGGED WITH "VO" TO BE INSTALLED INSIDE VIDEO OUTPUT BOX. COORDINATE INSTALLATION WITH A/V INSTALLER PRIOR TO ROUGH-IN.
E. CIRCUIT TAG UNDER ROOM NAME INDICATES ALL DEVICES IN THE ROOM ARE ON THE INDICATED PANEL AND CIRCUIT UNLESS OTHERWISE NOTED.
F. EXISTING WALL OPENINGS MAY BE REUSED FOR REPLACEMENT OF EXISTING RECPTACLES IN THE SAME LOCATION.
G. UNLESS NOTED OTHERWISE, REPLACE ALL EXISTING RECEPTACLES IN THE ENTIRE BUILDING ON A 1-FOR-1 BASIS WITH NEW COVER PLATES. CONNECT TO EXISTING CIRCUITRY.
H. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS LABED WITH "EWC" SHALL BE FEED FROM A GFCI BREAKER FROM THE PANEL INDACATED ON THE PLANS.
I. FOR ALL FLOORBOXES LABLED WITH 'FB-1', PROVIDE FLOOR BOX AS LISTED IN DETAIL 4, SHEET TS-3. COORDINATE ALL CONDUIT REQUIREMENTS WITH THIS DETAIL AND FINAL LOCATION WITH ARCHITECT PRIOR TO ALL WORK.
J. FOR ALL FLOORBOXES LABELED WITH 'FB-2', PROVIDE FLUSH MOUNTED HUBBELL OR APPROVED EQUAL 2-GANG FLOOR BOX WITH TWO DUPLEX RECEPTACLES AND BRASS COVER PLATE.
K. REFER TO EQUIPMENT ELECTRICAL CONNECTIONS SHEDULES ON E-6 SERIES SHEETS FOR ADDITIONAL INFORMATION.

SHEET KEYNOTES

1. REPLACE EXISTING DUPLEX RECEPTACLE WITH NEW DOUBLE DUPLEX RECEPTACLE IN SAME LOCATION AND CONNECT TO EXISTING CIRCUIT SERVING PREVIOUSLY DEMOLISHED DUPLEX RECEPTACLE.
2. REPLACE EXISTING CEILING MOUNTED DUPLEX RECEPTACLE IN NEW LOCATION SHOWN WITH NEW DOUBLE DUPLEX RECEPTACLE. EXTEND EXISTING CIRCUIT TO NEW LOCATION. COORDINATE FINAL LOCATION OF RELOCATED CEILING MOUNTED PROJECTOR PRIOR TO ROUGH-IN.
3. CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT SERVING PREVIOUSLY DEMOLISHED RECEPTACLES IN THIS ROOM.
4. CONNECT NEW RECEPTCALE TO EXISTING LOCAL RECEPTACLE CIRCUIT SERVING THIS ROOM.

KEY PLAN



krM Architecture+

REVISIONS

1	7/29/24	Addendum #1

07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
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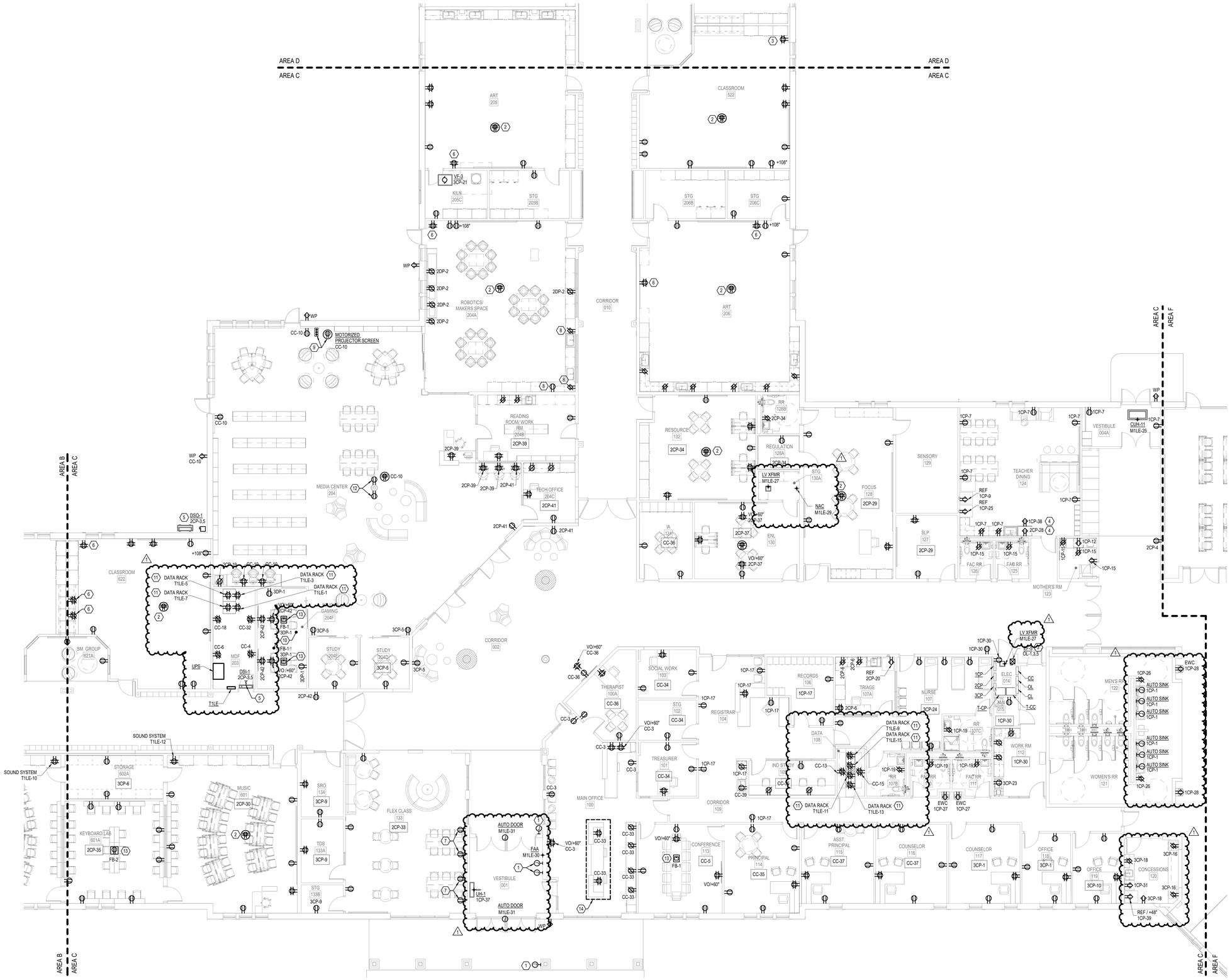
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
MHS

DRAWING NAME
FIRST FLOOR ELECTRICAL PLAN - AREA B

DRAWING NO.
EP1-2



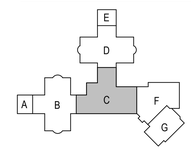
GENERAL NOTES

A. REFER TO SHEET E0-0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
B. REFER TO E6 SERIES SHEETS FOR PANEL SCHEDULES.
C. VERIFY HEIGHT OF ALL COUNTEROP RECEPTACLES WITH ARCHITECTURAL ELVATIONS PRIOR TO ROUGH-IN.
D. RECEPTACLES TAGGED WITH "VO" TO BE INSTALLED INSIDE VIDEO OUTPUT BOX. COORDINATE INSTALLATION WITH A/V INSTALLER PRIOR TO ROUGH-IN.
E. CIRCUIT TAG UNDER ROOM NAME INDICATES ALL DEVICES IN THE ROOM ARE ON THE INDICATED PANEL AND CIRCUIT UNLESS OTHERWISE NOTED.
F. EXISTING WALL OPENINGS MAY BE REUSED FOR REPLACEMENT OF EXISTING RECPTACLES IN THE SAME LOCATION.
G. UNLESS NOTED OTHERWISE, REPLACE ALL EXISTING RECEPTACLES IN THE ENTIRE BUILDING ON A 1-FOR-1 BASIS WITH NEW COVER PLATES. CONNECT TO EXISTING CIRCUITRY.
H. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS LABED WITH "EWC" SHALL BE FEED FROM A GFCI BREAKER FROM THE PANEL INDACATED ON THE PLANS.
I. FOR ALL FLOORBOXES LABLED WITH 'FB-1', PROVIDE FLOOR BOX AS LISTED IN DETAIL 4, SHEET TS-3. COORDINATE ALL CONDUIT REQUIREMENTS WITH THIS DETAIL AND FINAL LOCATION WITH ARCHITECT PRIOR TO ALL WORK.
J. FOR ALL FLOORBOXES LABELED WITH 'FB-2', PROVIDE FLUSH MOUNTED HUBBELL OR APPROVED EQUAL 2-GANG FLOOR BOX WITH TWO DUPLEX RECEPTACLES AND BRASS COVER PLATE.
K. REFER TO EQUIPMENT ELECTRICAL CONNECTIONS SHEDULES ON E-6 SERIES SHEETS FOR ADDITIONAL INFORMATION.

SHEET KEYNOTES

1. PROVIDE ROUGH-IN FOR WALL MOUNTED ADA PUSH BUTTONS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
2. REPLACE EXISTING DUPLEX RECEPTACLE WITH NEW DOUBLE DUPLEX RECEPTACLE IN SAME LOCATION AND CONNECT TO EXISTING CIRCUIT SERVING PREVIOUSLY DEMOLISHED DUPLEX RECEPTACLE.
3. PROVIDE FINAL CONNECTION FROM MOTOR STARTER TO EF-5 LOCATED ON ROOFTOP.
4. COORDINATE ELEVATION OF MICROWAVE DUPLEX RECEPTACLES WITH ARCHITECTURAL ELVATIONS PRIOR TO ROUGH-IN.
5. PROVIDE ALL WIRING REQUIRED TO INTERLOCK DSI WITH CORRESPONDING DSO SHOWN ON THE PLANS. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.
6. CONNECT NEW RECEPTACLE TO EXISTING LOCAL RECEPTACLE CIRCUIT SERVING THIS ROOM.
7. PROVIDE EXTENSION RINGS FOR RECEPTACLES INSTALLED IN WALL WITH DECORATIVE WOOD PANELLING.
8. EXTEND EXISTING CIRCUIT SERVING PREVIOUSLY DEMOLISHED RECEPTACLES TO NEW RECETPACLE.
9. INSTALL 3-POSITION CONTROLLER PROVIDED WITH MOTORIZED PROJECTOR SCREEN MANUFACTUER. COORDINATE ALL ELECTRICAL AND INTERCONNECTION REQUIREMENTS WITH THE MANUFACTUER PRIOR TO ROUGH-IN.
10. ALL RECEPTACLES AND COVER PLATES IN THIS ROOM SHALL BE BLACK IN COLOR.
11. RECEPTACLE SHALL BE FED FROM ABOVE AND INSTALLED IN DATA RACK. COORDINATE FINAL LOCATION WITH IT GROUP PRIOR TO INSTALLATION.
12. INSTALL NEW DUPLEX RECEPTACLE IN COLUMN. CONNECT TO EXISTING RECEPTACLE CIRCUIT SERVING PREVIOUSLY DEMOLISHED COLUMN MOUNTED RECEPTACLES.
13. INSTALL NEW FLOOR BOX WITH TWO DUPLEX RECEPTACLES. ROUTE 1" CONDUIT FROM NEAREST WALL UNDER CONCRETE SLAB TO FLOOR BOX LOCATION. INCLUDE ALL MATERIALS AND LABOR TO CUT EXISTING CONCRETE SLAB. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ALL WORK.
14. INSTALL RECEPTACLES IN CASEWORK AT ISLAND. ROUTE 1" CONDUIT FROM NEAREST WALL UNDER CONCRETE SLAB TO FLOOR BOX LOCATION. INCLUDE ALL MATERIALS AND LABOR TO CUT EXISTING CONCRETE SLAB. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ALL WORK.

KEY PLAN



REVISIONS

1	7/29/24	Addendum #1

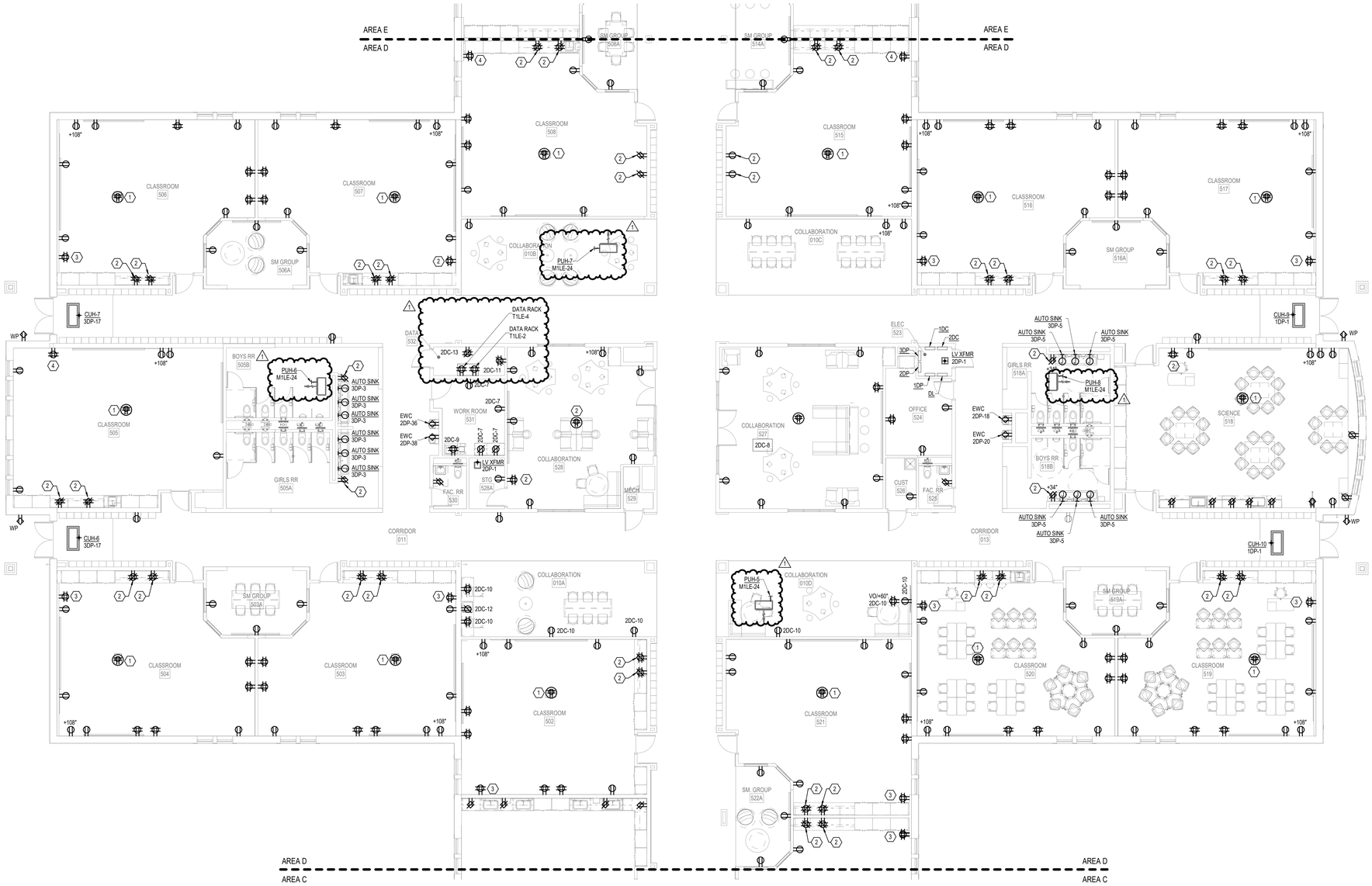
07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd, Fishers, IN 46037
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
MHS

DRAWING NAME
FIRST FLOOR ELECTRICAL PLAN - AREA C

DRAWING NO.
EP1-3



N

1 FIRST FLOOR ELECTRICAL PLAN - AREA D

1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET E0-0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.

B. REFER TO E6 SERIES SHEETS FOR PANEL SCHEDULES.

C. VERIFY HEIGHT OF ALL COUNTEROP RECEPTACLES WITH ARCHITECTURAL ELVATIONS PRIOR TO ROUGH-IN.

D. RECEPTACLES TAGGED WITH "VO" TO BE INSTALLED INSIDE VIDEO OUTPUT BOX. COORDINATE INSTALLATION WITH A/V INSTALLER PRIOR TO ROUGH-IN.

E. CIRCUIT TAG UNDER ROOM NAME INDICATES ALL DEVICES IN THE ROOM ARE ON THE INDICATED PANEL AND CIRCUIT UNLESS OTHERWISE NOTED.

F. EXISTING WALL OPENINGS MAY BE REUSED FOR REPLACEMENT OF EXISTING RECPTACLES IN THE SAME LOCATION.

G. UNLESS NOTED OTHERWISE, REPLACE ALL EXISTING RECEPTACLES IN THE ENTIRE BUILDING ON A 1-FOR-1 BASIS WITH NEW COVER PLATES. CONNECT TO EXISTING CIRCUITRY.

H. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS LABED WITH "EWC" SHALL BE FEED FROM A GFCI BREAKER FROM THE PANEL INDACATED ON THE PLANS.

I. FOR ALL FLOORBOXES LABLED WITH 'FB-1', PROVIDE FLOOR BOX AS LISTED IN DETAIL 4, SHEET T5-3. COORDINATE ALL CONDUIT REQUIREMENTS WITH THIS DETAIL AND FINAL LOCATION WITH ARCHITECT PRIOR TO ALL WORK.

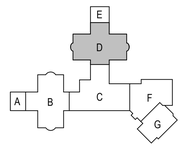
J. FOR ALL FLOORBOXES LABELED WITH 'FB-2', PROVIDE FLUSH MOUNTED HUBBELL OR APPROVED EQUAL 2-GANG FLOOR BOX WITH TWO DUPLEX RECEPTACLES AND BRASS COVER PLATE.

K. REFER TO EQUIPMENT ELECTRICAL CONNECTIONS SHEDULES ON E-6 SERIES SHEETS FOR ADDITIONAL INFORMATION.

SHEET KEYNOTES

1. REPLACE EXISTING CEILING MOUNTED DUPLEX RECEPTACLE IN NEW LOCATION SHOWN WITH NEW DOUBLE DUPLEX RECEPTACLE. EXTEND EXISTING CIRCUIT TO NEW LOCATION. COORDINATE FINAL LOCATION OF RELOCATED CEILING MOUNTED PROJECTOR PRIOR TO ROUGH-IN.
2. CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT SERVING PREVIOUSLY DEMOLISHED RECEPTACLES IN THIS ROOM.
3. CONNECT NEW RECEPTCALE TO EXISTING LOCAL RECEPTACLE CIRCUIT SERVING THIS ROOM.
4. REPLACE EXISTING DUPLEX RECEPTACLE WITH NEW DOUBLE DUPLEX RECEPTACLE IN SAME LOCATION AND CONNECT TO EXISTING CIRCUIT SERVING PREVIOUSLY DEMOLISHED DUPLEX RECEPTACLE.

KEY PLAN



krM Architecture+

RDC

kbsd CONSULTING

REVISIONS

1	7/29/24	Addendum #1

07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
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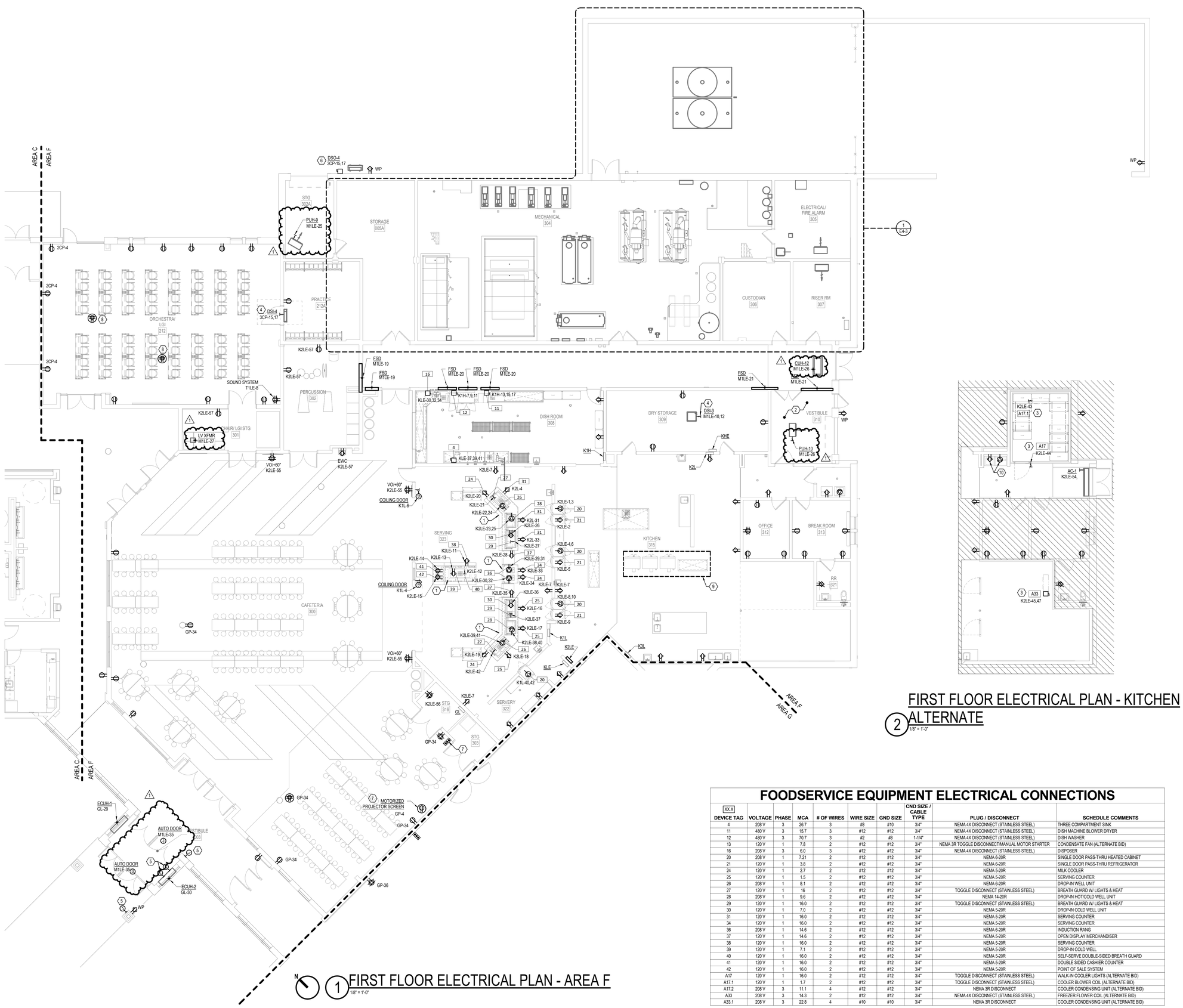
DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
MHS

DRAWING NAME
FIRST FLOOR ELECTRICAL PLAN - AREA D

DRAWING NO.
EP1-4



1 FIRST FLOOR ELECTRICAL PLAN - AREA F

1/8" = 1'-0"

2 FIRST FLOOR ELECTRICAL PLAN - KITCHEN ALTERNATE

1/8" = 1'-0"

FOODSERVICE EQUIPMENT ELECTRICAL CONNECTIONS

XXX DEVICE TAG	VOLTAGE	PHASE	MCA	# OF WIRES	WIRE SIZE	GND SIZE	CND SIZE / CABLE TYPE	PLUG / DISCONNECT	SCHEDULE COMMENTS
4	208 V	3	26.7	3	#8	#10	3/4"	NEMA 4X DISCONNECT (STAINLESS STEEL)	THREE COMPARTMENT SINK
11	480 V	3	15.7	3	#12	#12	3/4"	NEMA 4X DISCONNECT (STAINLESS STEEL)	DISH MACHINE BLOWER DRYER
12	480 V	3	70.7	3	#2	#8	1-1/4"	NEMA 4X DISCONNECT (STAINLESS STEEL)	DISH WASHER
13	120 V	1	7.8	2	#12	#12	3/4"	NEMA 3R TOGGLE DISCONNECT/MANUAL MOTOR STARTER	CONDENSATE FAN (ALTERNATE BID)
16	208 V	3	6.0	3	#12	#12	3/4"	NEMA 4X DISCONNECT (STAINLESS STEEL)	DISPOSER
20	208 V	1	7.21	2	#12	#12	3/4"	NEMA 6-20R	SINGLE DOOR PASS-THRU HEATED CABINET
21	120 V	1	3.8	2	#12	#12	3/4"	NEMA 6-20R	SINGLE DOOR PASS-THRU REFRIGERATOR
24	120 V	1	2.7	2	#12	#12	3/4"	NEMA 5-20R	MILK COOLER
25	120 V	1	1.5	2	#12	#12	3/4"	NEMA 5-20R	SERVING COUNTER
26	208 V	1	8.1	2	#12	#12	3/4"	NEMA 6-20R	DROP-IN WELL UNIT
27	120 V	1	16	2	#12	#12	3/4"	TOGGLE DISCONNECT (STAINLESS STEEL)	BREATH GUARD W/ LIGHTS & HEAT
28	208 V	1	9.6	2	#12	#12	3/4"	NEMA 14-20R	DROP-IN HOT/COLD WELL UNIT
29	120 V	1	16.0	2	#12	#12	3/4"	TOGGLE DISCONNECT (STAINLESS STEEL)	BREATH GUARD W/ LIGHTS & HEAT
30	120 V	1	7.0	2	#12	#12	3/4"	NEMA 5-20R	DROP-IN COLD WELL UNIT
31	120 V	1	16.0	2	#12	#12	3/4"	NEMA 5-20R	SERVING COUNTER
34	120 V	1	16.0	2	#12	#12	3/4"	NEMA 5-20R	SERVING COUNTER
36	208 V	1	14.6	2	#12	#12	3/4"	NEMA 6-20R	INDUCTION RANG
37	120 V	1	14.6	2	#12	#12	3/4"	NEMA 5-20R	OPEN DISPLAY MERCHANDISER
38	120 V	1	16.0	2	#12	#12	3/4"	NEMA 5-20R	SERVING COUNTER
39	120 V	1	7.1	2	#12	#12	3/4"	NEMA 5-20R	DROP-IN COLD WELL
40	120 V	1	16.0	2	#12	#12	3/4"	NEMA 5-20R	SELF-SERVE DOUBLE-SIDED BREATH GUARD
41	120 V	1	16.0	2	#12	#12	3/4"	NEMA 5-20R	DOUBLE SIDED CASHIER COUNTER
42	120 V	1	16.0	2	#12	#12	3/4"	NEMA 5-20R	POINT OF SALE SYSTEM
A17	120 V	1	16.0	2	#12	#12	3/4"	TOGGLE DISCONNECT (STAINLESS STEEL)	WALK-IN COOLER LIGHTS (ALTERNATE BID)
A17.1	120 V	1	1.7	2	#12	#12	3/4"	TOGGLE DISCONNECT (STAINLESS STEEL)	COOLER BLOWER COIL (ALTERNATE BID)
A17.2	208 V	3	11.1	4	#12	#12	3/4"	NEMA 3R DISCONNECT	COOLER CONDENSING UNIT (ALTERNATE BID)
A33	208 V	3	14.3	2	#12	#12	3/4"	NEMA 4X DISCONNECT (STAINLESS STEEL)	FREEZER FLOWER COIL (ALTERNATE BID)
A33.1	208 V	3	22.8	4	#10	#10	3/4"	NEMA 3R DISCONNECT	COOLER CONDENSING UNIT (ALTERNATE BID)

GENERAL NOTES

A. REFER TO SHEET E0-0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
B. REFER TO E6 SERIES SHEETS FOR PANEL SCHEDULES.
C. VERIFY HEIGHT OF ALL COUNTEROP RECEPTACLES WITH ARCHITECTURAL ELVATIONS PRIOR TO ROUGH-IN.
D. RECEPTACLES TAGGED WITH "VO" TO BE INSTALLED INSIDE VIDEO OUTPUT BOX. COORDINATE INSTALLATION WITH A/V INSTALLER PRIOR TO ROUGH-IN.
E. CIRCUIT TAG UNDER ROOM NAME INDICATES ALL DEVICES IN THE ROOM ARE ON THE INDICATED PANEL AND CIRCUIT UNLESS OTHERWISE NOTED.
F. EXISTING WALL OPENINGS MAY BE REUSED FOR REPLACEMENT OF EXISTING RECPTACLES IN THE SAME LOCATION.
G. UNLESS NOTED OTHERWISE, REPLACE ALL EXISTING RECEPTACLES IN THE ENTIRE BUILDING ON A 1-FOR-1 BASIS WITH NEW COVER PLATES. CONNECT TO EXISTING CIRCUITRY.
H. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS LABED WITH "EWC" SHALL BE FEED FROM A GFCI BREAKER FROM THE PANEL INDACATED ON THE PLANS.
I. FOR ALL FLOORBOXES LABLED WITH 'FB-1', PROVIDE FLOOR BOX AS LISTED IN DETAIL 4, SHEET TS-3. COORDINATE ALL CONDUIT REQUIREMENTS WITH THIS DETAIL AND FINAL LOCATION WITH ARCHITECT PRIOR TO ALL WORK.
J. FOR ALL FLOORBOXES LABELED WITH 'FB-2', PROVIDE FLUSH MOUNTED HUBBELL OR APPROVED EQUAL 2-GANG FLOOR BOX WITH TWO DUPLEX RECEPTACLES AND BRASS COVER PLATE.
K. REFER TO EQUIPMENT ELECTRICAL CONNECTIONS SHEDULES ON E-6 SERIES SHEETS FOR ADDITIONAL INFORMATION.

KITCHEN NOTES

A. MOUNT ALL DEVICES AT HEIGHT NOTED ON FOOD SERVICE POWER PLANS
B. ALL POWER REQUIREMENTS SHALL BE CONFIRMED WITH ORDERED EQUIPMENT. ALL DEVIATIONS IN POWER REQUIREMENTS FROM BASIS OF DESIGN SHALL BE COMPILED AND REPORTED TO ENGINEER FOR APPROPRIATE MODIFICATION.
C. ALL RECEPTACLES IN KITCHEN SPACES TO BE GFCI TYPE IF RECEPTACLE DOES NOT COME WITH INTEGRAL GFCI THE PANEL BREAKER SHALL BE GFCI TYPE.
D. IF DEVICES NOTED WITH NON RECEPTACLE DISCONNECT ARE MANUFACTURER INSTALLED, THEN DISCONNECTSWITCH NOTED SHALL BE OMITED.
E. ALL DISCONNECTING MEANS SHALL BE LOCATED IN A MANNER SUCH THAT THEY ARE NOT ACCESSIBLE TO THE PUBLIC.
F. REFER TO SHEET FOODSERVICE EQUIPMENT SHOP DRAWINGS FOR ADDITIONAL INFORMATION ON ALL CONNECTIONS AND WORK ASSOCIATED WITH THE ELECTRICAL CONTRACTOR. ALL ELECTRICAL WORK NOTED ON THE FOODSERVICE K-SERIES DRAWINGS SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S BID PROPOSAL.
G. ALL WIRE CALLOUTS ARE SIZED WITH COPPER (CU) CONDUCTORS UNLESS OTHERWISE NOTED WITH ALUMINUM (AL).

SHEET KEYNOTES

1. FOR BRANCH CIRCUITS TO ALL ELECTRICAL DEVICES AT THIS ISLAND, ROUTE CONDUIT AS INDICATED ON THE KITCHEN EQUIPMENT ELECTRICAL CONNECTIONS SCHEDULE ON THIS SHEET FROM PANEL INDICIATED, DOWN TO THE NEAREST WALL, UNDER THE CONCRETE SLAB, AND STUB UP AT THIS POINT IN THE ISLAND. INCLUDE ALL CONCRETE CUTTING AND PATCHING IN BID PROPOSAL. COORDINATE ALL WORK WITH KITCHEN EQUIPMENT VENDOR DRAWINGS PRIOR TO INSTALLATION.
2. BASE BID – OTHER THAN EXISTING LIGHTING AND LIGHTING CONTROLS, ALL EXISTING ELECTRICAL SHALL REMAIN IN THIS ROOM. PROVIDE ALL ELECTRICAL ASSOCIATED WITH PUH-10.
3. ALTERNATE BID – PROVIDE ALL ELECTRICAL ASSOCIATED WITH NEW COOLER AND OTHER FOODSERVICE EQUIPMENT SHOWN IN THIS PLAN.
4. PROVIDE ALL WIRING REQUIRED TO INTERLOCK DSI WITH CORRESPONDING DSO SHOWN ON THE PLANS. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.
5. PROVIDE ROUGH-IN FOR WALL MOUNTED ADA PUSH BUTTONS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
6. PROVIDE ALL WIRING REQUIRED TO INTERLOCK DSI WITH CORRESPONDING DSO SHOWN ON THE PLANS. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.
7. INSTALL 3-POSITION CONTROLLER PROVIDED WITH MOTORIZED PROJECTOR SCREEN MANUFACTUER. COORDINATE ALL ELECTRICAL AND INTERCONNECTION REQUIREMENTS WITH THE MANUFACTUER PRIOR TO ROUGH-IN.
8. REPLACE EXISTING CEILING MOUNTED DUPLEX RECEPTACLE IN NEW LOCATION SHOWN WITH NEW DOUBLE DUPLEX RECEPTACLE. EXTEND EXISTING CIRCUIT TO NEW LOCATION. COORDINATE FINAL LOCATION OF RELOCATED CEILING MOUNTED PROJECTOR PRIOR TO ROUGH-IN.
9. INCLUDE ALL LABOR AND MATERIALS TO RECONFIGURE AND EXTEND EXISTING ELECTRICAL ASSOCIATED WITH REVISED LAYOUT OF FOODSERVICE MICROWAVES AND OVENS AT THIS LOCATION. COORDINATE ALL WORK WITH FOODSERVICE VENDOR DRAWINGS.
10. ALTERNATE BID – PROVIDE NEW DUPLEX RECEPTACLE FOR RELOCATION OF EXISTING WASHER AND NEW NEMA-14-30R RECEPTACLE FOR RELOCATION OF EXISTING DRYER. COORDINATE EXACT REQUIREMENTS WITH EXISTING EQUIPMENT PRIOR TO ROUGH-IN.

REVISIONS

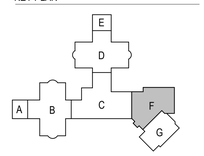
1	7/30/24	Addendum #1

07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd, Fishers, IN 46037
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ, JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

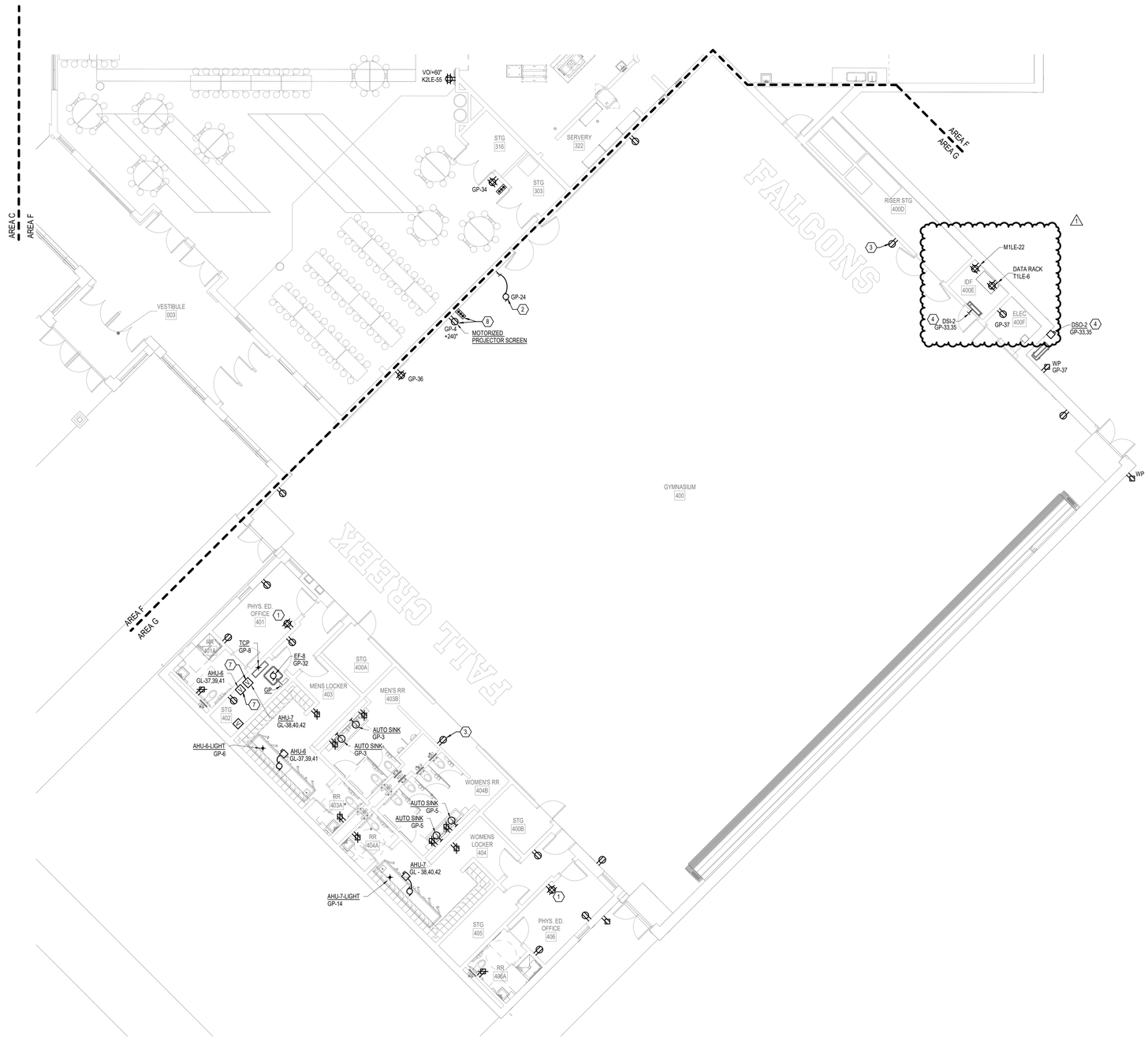
CONSTRUCTION DOCUMENTS
07.12.2024
ICRA JOB NO.
23055
DRAWN BY
DCH

KEY PLAN



DRAWING NAME
FIRST FLOOR ELECTRICAL PLAN - AREA F

DRAWING NO.
EP1-5



N

1 FIRST FLOOR ELECTRICAL PLAN - AREA G

1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET E0-0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.

B. REFER TO E6 SERIES SHEETS FOR PANEL SCHEDULES.

C. VERIFY HEIGHT OF ALL COUNTEROP RECEPTACLES WITH ARCHITECTURAL ELVATIONS PRIOR TO ROUGH-IN.

D. RECEPTACLES TAGGED WITH "VO" TO BE INSTALLED INSIDE VIDEO OUTPUT BOX. COORDINATE INSTALLATION WITH A/V INSTALLER PRIOR TO ROUGH-IN.

E. CIRCUIT TAG UNDER ROOM NAME INDICATES ALL DEVICES IN THE ROOM ARE ON THE INDICATED PANEL AND CIRCUIT UNLESS OTHERWISE NOTED.

F. EXISTING WALL OPENINGS MAY BE REUSED FOR REPLACEMENT OF EXISTING RECPTACLES IN THE SAME LOCATION.

G. UNLESS NOTED OTHERWISE, REPLACE ALL EXISTING RECEPTACLES IN THE ENTIRE BUILDING ON A 1-FOR-1 BASIS WITH NEW COVER PLATES. CONNECT TO EXISTING CIRCUITRY.

H. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS LABED WITH "EWC" SHALL BE FEED FROM A GFCI BREAKER FROM THE PANEL INDACATED ON THE PLANS.

I. FOR ALL FLOORBOXES LABLED WITH 'FB-1', PROVIDE FLOOR BOX AS LISTED IN DETAIL 4, SHEET TS-3. COORDINATE ALL CONDUIT REQUIREMENTS WITH THIS DETAIL AND FINAL LOCATION WITH ARCHITECT PRIOR TO ALL WORK.

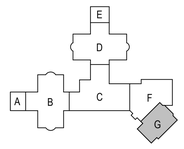
J. FOR ALL FLOORBOXES LABELED WITH 'FB-2', PROVIDE FLUSH MOUNTED HUBBELL OR APPROVED EQUAL 2-GANG FLOOR BOX WITH TWO DUPLEX RECEPTACLES AND BRASS COVER PLATE.

K. REFER TO EQUIPMENT ELECTRICAL CONNECTIONS SHEDULES ON E-6 SERIES SHEETS FOR ADDITIONAL INFORMATION.

SHEET KEYNOTES

1. REPLACE EXISTING DUPLEX RECEPTACLE WITH NEW DOUBLE DUPLEX RECEPTACLE IN SAME LOCATION AND CONNECT TO EXISTING CIRCUITRY.
2. ALTERNATE BID - PROVIDE 120V, 20A, 3/4HP MOTOR AND MOTOR CONTROLLER KEY SWITCH FOR GYM DIVIDER CURTAIN. ROUTE 2#12 & 1#12G IN 3/4" CONDUIT.
3. EXTEND EXISTING CIRCUIT FROM EXISTING FLOOR MOUNTED RECEPTACLE TO NEW DUPLEX RECEPTACLE.
4. PROVIDE ALL WIRING REQUIRED TO INTERLOCK DSI WITH CORRESPONDING DSO SHOWN ON THE PLANS. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.
7. PROVIDE NEW VFD AND MAKE FINAL CONNECTION TO CORRESPONDING MOTOR TAG INDICATED AS SHOWN ON THIS PLAN.
8. INSTALL 3-POSITION CONTROLLER PROVIDED WITH MOTORIZED PROJECTOR SCREEN MANUFACTUER. COORDINATE ALL ELECTRICAL AND INTERCONNECTION REQUIREMENTS WITH THE MANUFACTUER PRIOR TO ROUGH-IN.

KEY PLAN



REVISIONS

1	7/29/24	Addendum #1

07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION

23055 - FALL CREEK INTERMEDIATE RENOVATIONS

12011 Olio Rd. Fishers, IN 46037

CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

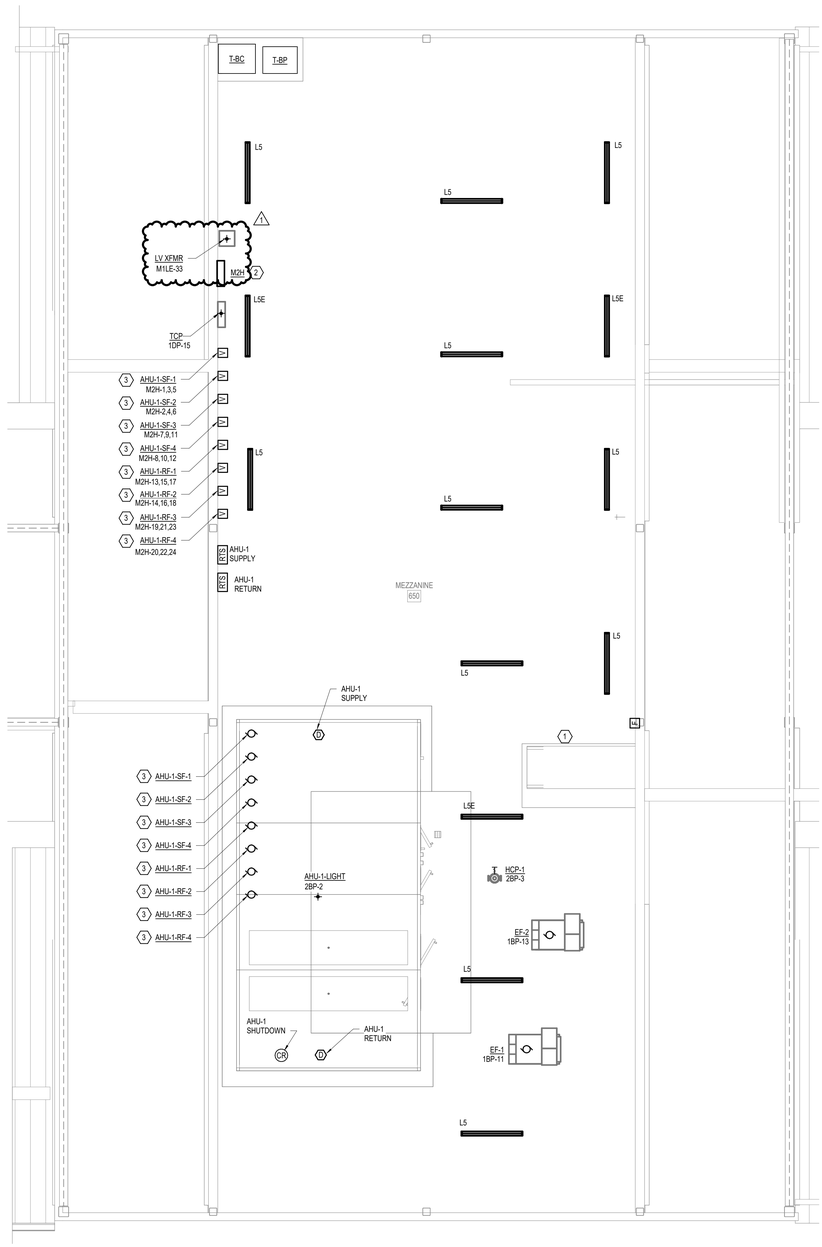
CONSTRUCTION DOCUMENTS
07.12.2024

krM JOB NO.
23055

DRAWN BY
MHS

DRAWING NAME
FIRST FLOOR ELECTRICAL PLAN - AREA G

DRAWING NO.
EP1-6



1 ENLARGED ELECTRICAL PLAN - MEZZANINE - AREA B
1/4" = 1'-0"

GENERAL NOTES

A REFER TO SHEET E0-0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.

B REFER TO E6 SERIES SHEETS FOR PANEL SCHEDULES.

C VERIFY HEIGHT OF ALL COUNTEROP RECEPTACLES WITH ARCHITECTURAL ELVATIONS PRIOR TO ROUGH-IN.

D RECEPTACLES TAGGED WITH "VO" TO BE INSTALLED INSIDE VIDEO OUTPUT BOX. COORDINATE INSTALLATION WITH A/V INSTALLER PRIOR TO ROUGH-IN.

E CIRCUIT TAG UNDER ROOM NAME INDICATES ALL DEVICES IN THE ROOM ARE ON THE INDICATED PANEL AND CIRCUIT UNLESS OTHERWISE NOTED.

F EXISTING WALL OPENINGS MAY BE REUSED FOR REPLACEMENT OF EXISTING RECPTACLES IN THE SAME LOCATION.

G UNLESS NOTED OTHERWISE, REPLACE ALL EXISTING RECEPTACLES IN THE ENTIRE BUILDING ON A 1-FOR-1 BASIS WITH NEW COVER PLATES. CONNECT TO EXISTING CIRCUITRY.

H ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS LABED WITH "EWC" SHALL BE FEED FROM A GFCI BREAKER FROM THE PANEL INDACATED ON THE PLANS.

I FOR ALL FLOORBOXES LABLED WITH 'FB-1', PROVIDE FLOOR BOX AS LISTED IN DETAIL 4, SHEET TS-3. COORDINATE ALL CONDUIT REQUIREMENTS WITH THIS DETAIL AND FINAL LOCATION WITH ARCHITECT PRIOR TO ALL WORK.

J FOR ALL FLOORBOXES LABELED WITH 'FB-2', PROVIDE FLUSH MOUNTED HUBBELL OR APPROVED EQUAL 2-GANG FLOOR BOX WITH TWO DUPLEX RECEPTACLES AND BRASS COVER PLATE.

K REFER TO EQUIPMENT ELECTRICAL CONNECTIONS SHEDULES ON E-6 SERIES SHEETS FOR ADDITIONAL INFORMATION.

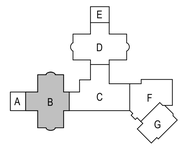
SHEET KEYNOTES

1 PROVIDE 1 FOR 1 REPLACEMENT OF ALL LIGHT FIXTURES WITH TYPE L5 / L5E LINEAR STRIP AND LIGHTING CONTROL LOCATED WITHIN MEZZANINE. COORDINATE FINAL PLACEMENT WITH EQUIPMENT LOCATIONS.

2 PROVIDE NEW 480/277V, 200A PANEL. SEE RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

3 PROVIDE NEW VFD AND MAKE FINAL CONNECTION TO CORRESPONDING MOTOR TAG INDICATED AS SHOWN ON THIS PLAN.

KEY PLAN



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REVISIONS

1	7/29/24	Addendum #1

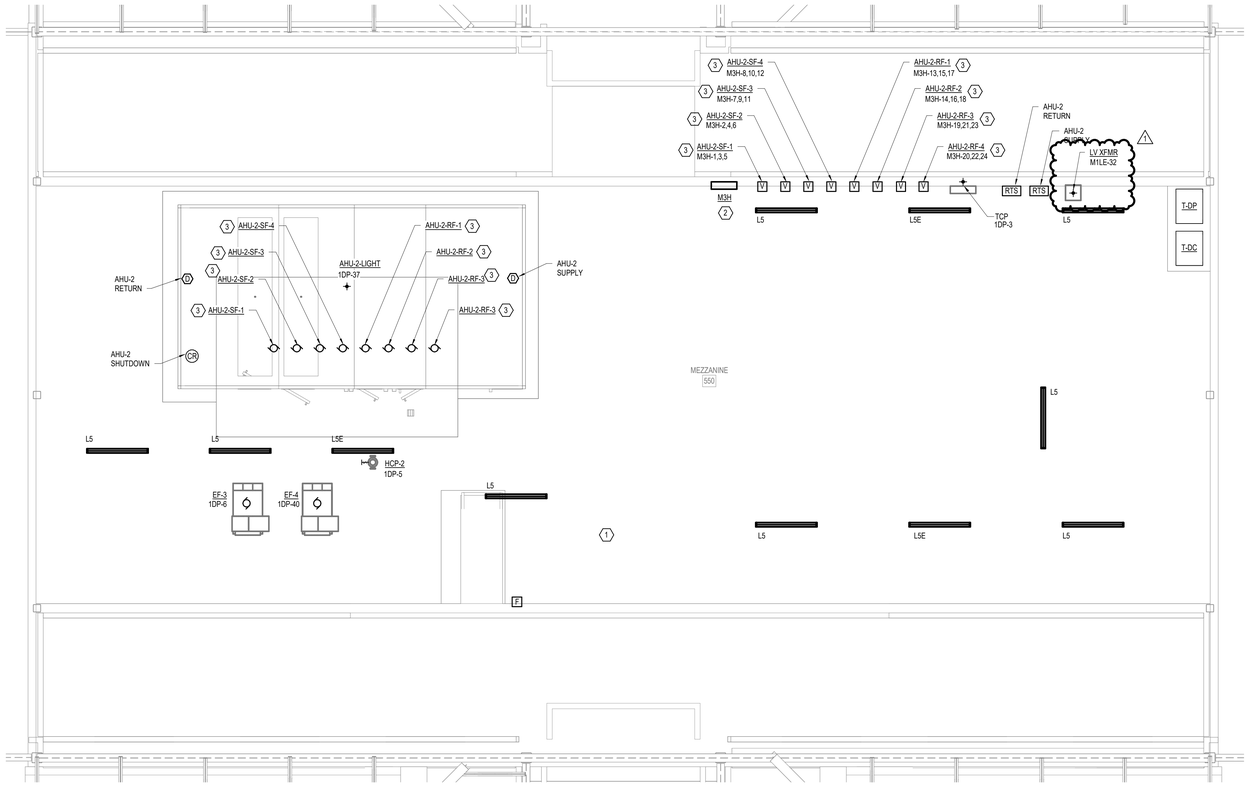
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
07.12.2024
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd. Fishers, IN 46037
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
MHS/MLL

DRAWING NAME
ENLARGED ELECTRICAL PLANS

DRAWING NO.
E4-1



1 ENLARGED ELECTRICAL PLAN - MEZZANINE - AREA D
1/4" = 1'-0"

GENERAL NOTES

A REFER TO SHEET E0-0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.

B REFER TO E6 SERIES SHEETS FOR PANEL SCHEDULES.

C VERIFY HEIGHT OF ALL COUNTEROP RECEPTACLES WITH ARCHITECTURAL ELVATIONS PRIOR TO ROUGH-IN.

D RECEPTACLES TAGGED WITH "VO" TO BE INSTALLED INSIDE VIDEO OUTPUT BOX. COORDINATE INSTALLATION WITH A/V INSTALLER PRIOR TO ROUGH-IN.

E CIRCUIT TAG UNDER ROOM NAME INDICATES ALL DEVICES IN THE ROOM ARE ON THE INDICATED PANEL AND CIRCUIT UNLESS OTHERWISE NOTED.

F EXISTING WALL OPENINGS MAY BE REUSED FOR REPLACEMENT OF EXISTING RECPTACLES IN THE SAME LOCATION.

G UNLESS NOTED OTHERWISE, REPLACE ALL EXISTING RECEPTACLES IN THE ENTIRE BUILDING ON A 1-FOR-1 BASIS WITH NEW COVER PLATES. CONNECT TO EXISTING CIRCUITRY.

H ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS LABED WITH "EWC" SHALL BE FED FROM A GFCI BREAKER FROM THE PANEL INDACATED ON THE PLANS.

I FOR ALL FLOORBOXES LABLED WITH 'FB-1', PROVIDE FLOOR BOX AS LISTED IN DETAIL 4, SHEET TS-3. COORDINATE ALL CONDUIT REQUIREMENTS WITH THIS DETAIL AND FINAL LOCATION WITH ARCHITECT PRIOR TO ALL WORK.

J FOR ALL FLOORBOXES LABELED WITH 'FB-2', PROVIDE FLUSH MOUNTED HUBBELL OR APPROVED EQUAL 2-GANG FLOOR BOX WITH TWO DUPLEX RECEPTACLES AND BRASS COVER PLATE.

K REFER TO EQUIPMENT ELECTRICAL CONNECTIONS SHEDULES ON E-6 SERIES SHEETS FOR ADDITIONAL INFORMATION.

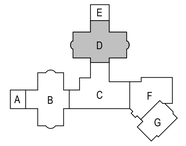
SHEET KEYNOTES

1 PROVIDE 1 FOR 1 REPLACEMENT OF ALL LIGHT FIXTURES WITH TYPE L5 / L5E LINEAR STRIP AND LIGHTING CONTROL LOCATED WITHIN MEZZANINE. COORDINATE FINAL PLACEMENT WITH EQUIPMENT LOCATIONS.

2 PROVIDE NEW 480/277V, 200A PANEL. SEE RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

3 PROVIDE NEW VFD AND MAKE FINAL CONNECTION TO CORRESPONDING MOTOR TAG INDICATED AS SHOWN ON THIS PLAN.

KEY PLAN



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REVISIONS

1	7/29/24	Addendum #1

07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd. Fishers, IN 46037
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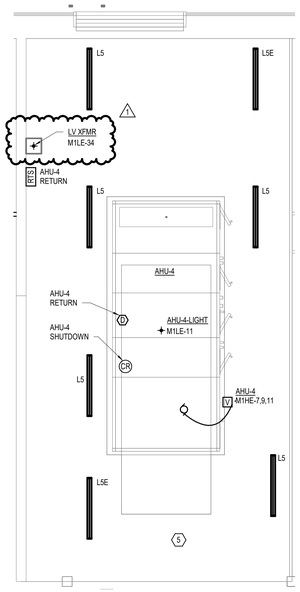
DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

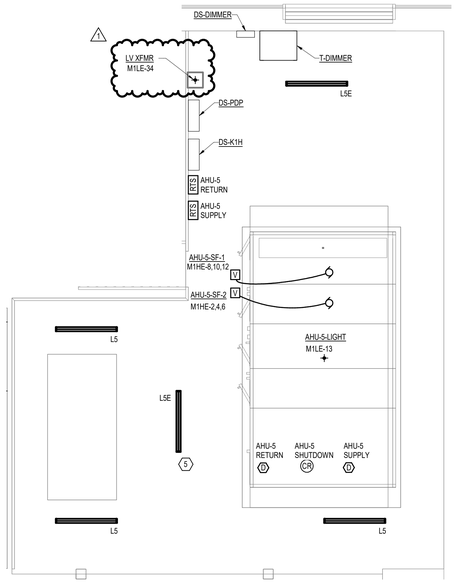
CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
MHS/MLL
DRAWING NAME
ENLARGED ELECTRICAL PLANS

DRAWING NO.
E4-2



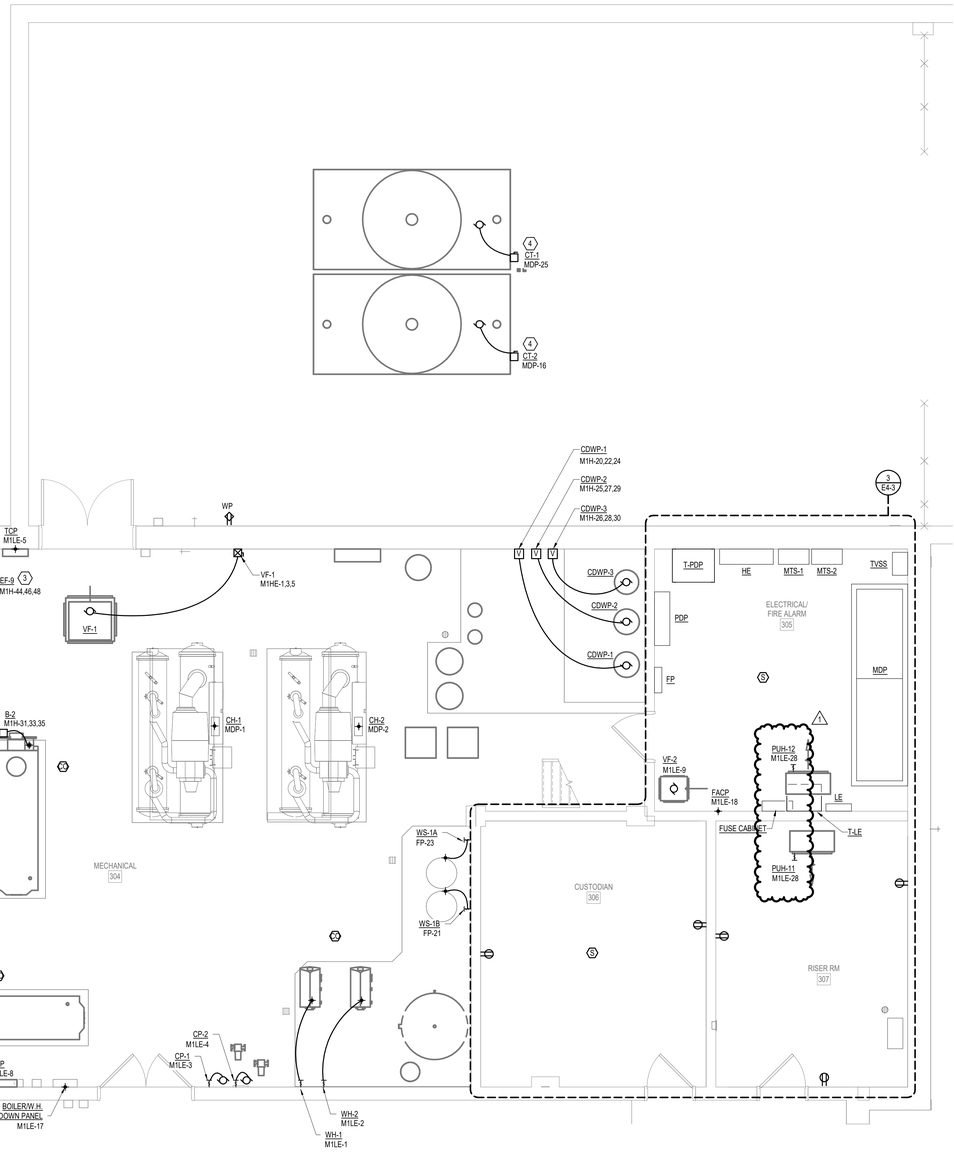
ENLARGED ELECTRICAL PLAN - MECHANICAL ROOM MEZZANINE A

2 1/4" = 1'-0"



ENLARGED ELECTRICAL PLAN - MECHANICAL ROOM MEZZANINE B

3 1/4" = 1'-0"



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ENLARGED ELECTRICAL PLAN - MECHANICAL ROOM PLAN

1 1/4" = 1'-0"

GENERAL NOTES

A REFER TO SHEET E0-0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.

B REFER TO E6 SERIES SHEETS FOR PANEL SCHEDULES.

C VERIFY HEIGHT OF ALL COUNTEROP RECEPTACLES WITH ARCHITECTURAL ELVATIONS PRIOR TO ROUGH-IN.

D RECEPTACLES TAGGED WITH "VO" TO BE INSTALLED INSIDE VIDEO OUTPUT BOX. COORDINATE INSTALLATION WITH A/V INSTALLER PRIOR TO ROUGH-IN.

E CIRCUIT TAG UNDER ROOM NAME INDICATES ALL DEVICES IN THE ROOM ARE ON THE INDICATED PANEL AND CIRCUIT UNLESS OTHERWISE NOTED.

F EXISTING WALL OPENINGS MAY BE REUSED FOR REPLACEMENT OF EXISTING RECPTACLES IN THE SAME LOCATION.

G UNLESS NOTED OTHERWISE, REPLACE ALL EXISTING RECEPTACLES IN THE ENTIRE BUILDING ON A 1-FOR-1 BASIS WITH NEW COVER PLATES. CONNECT TO EXISTING CIRCUITRY.

H ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS LABED WITH "EWC" SHALL BE FEED FROM A GFCI BREAKER FROM THE PANEL INDACATED ON THE PLANS.

I FOR ALL FLOORBOXES LABLED WITH 'FB-1', PROVIDE FLOOR BOX AS LISTED IN DETAIL 4, SHEET TS-3. COORDINATE ALL CONDUIT REQUIREMENTS WITH THIS DETAIL AND FINAL LOCATION WITH ARCHITECT PRIOR TO ALL WORK.

J FOR ALL FLOORBOXES LABELED WITH 'FB-2', PROVIDE FLUSH MOUNTED HUBBELL OR APPROVED EQUAL 2-GANG FLOOR BOX WITH TWO DUPLEX RECEPTACLES AND BRASS COVER PLATE.

K REFER TO EQUIPMENT ELECTRICAL CONNECTIONS SHEDULES ON E-6 SERIES SHEETS FOR ADDITIONAL INFORMATION.

SHEET KEYNOTES

1 PROVIDE NEW FLOOR MOUNTED STRUT RACK FOR VFDs SHOWN IN THIS AREA.

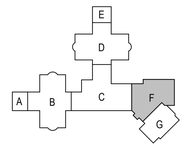
2 PROVIDE NEW VFD AND MAKE FINAL CONNECTION TO CORRESPONDING MOTOR TAG INDICATED AS SHOWN ON THIS PLAN.

3 PROVIDE NEW VFD AND MAKE FINAL CONNECTION TO CORRESPONDING MOTOR TAG INDICATED AS SHOWN ON SHEET EP2-1.

4 PROVIDE 40A/480V/3P NEMA-1 DISCONNECT FOR COOLING TOWER. COOLING TOWER IS TO BE POWERED FROM THE CORRESPONDING VFD LOCATED IN MECHANICAL ROOM. PROVIDE FINAL CONNECTION FROM VFD.

5 PROVIDE 1 FOR 1 REPLACEMENT OF ALL LIGHT FIXTURES WITH TYPE L5 / L5E LINEAR STRIP AND LIGHTING CONTROL LOCATED WITHIN MEZZANINE. COORDINATE FINAL PLACEMENT WITH EQUIPMENT LOCATIONS.

KEY PLAN



REVISIONS

1	7/29/24	Addendum #1

HAMILTON SOUTHEASTERN SCHOOL CORPORATION
07.12.2024
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd. Fishers, IN 46037
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
MHS/DCH

DRAWING NAME
ENLARGED ELECTRICAL PLANS

DRAWING NO.
E4-3

EQUIPMENT ELECTRICAL CONNECTIONS

1

DEVICE TAG	HP	VOLTAGE	PHASE	MCA	# OF WIRES	WIRE SIZE	GND SIZE	CND SIZE / CABLE TYPE	PLUG / DISCONNECT
AC-1		120 V	1	2.7	2	#12	#12	3/4"	TOGGLE DISCONNECT/MANUAL MOTOR STARTER
AHU-1 LIGHT		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
AHU-1-RF-1	7.5	480 V	3	11	3	#12	#12	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-1-RF-2	7.5	480 V	3	11	3	#12	#12	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-1-RF-3	7.5	480 V	3	11	3	#12	#12	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-1-RF-4	7.5	480 V	3	11	3	#12	#12	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-1-SF-1	15	480 V	3	21	3	#8	#10	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-1-SF-2	15	480 V	3	21	3	#8	#10	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-1-SF-3	15	480 V	3	21	3	#8	#10	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-1-SF-4	15	480 V	3	21	3	#8	#10	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-2-LIGHT		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
AHU-2-RF-1	7.5	480 V	3	11	3	#12	#12	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-2-RF-2	7.5	480 V	3	11	3	#12	#12	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-2-RF-3	7.5	480 V	3	11	3	#12	#12	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-2-RF-4	7.5	480 V	3	11	3	#12	#12	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-2-SF-1	15	480 V	3	21	3	#8	#10	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-2-SF-2	15	480 V	3	21	3	#8	#10	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-2-SF-3	15	480 V	3	21	3	#8	#10	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-2-SF-4	15	480 V	3	21	3	#8	#10	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-3	15	480 V	3	21	3	#8	#10	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-3-LIGHT		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
AHU-4	20	480 V	3	27	3	#4	#10	1-1/4"	VFD WITH INTEGRAL DISCONNECT
AHU-4-LIGHT		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
AHU-5-LIGHT		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
AHU-5-SF-1	15	480 V	3	21	3	#8	#10	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-5-SF-2	15	480 V	3	21	3	#8	#10	3/4"	VFD WITH INTEGRAL DISCONNECT
AHU-6	3	480 V	3	4.8	3	#12	#12	3/4"	VFD WITH INTEGRAL DISCONNECT AND LOCAL NEMA 1 DISCONNECT
AHU-6-LIGHT		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
AHU-7	3	480 V	3	4.8	3	#12	#12	3/4"	VFD WITH INTEGRAL DISCONNECT AND LOCAL NEMA 1 DISCONNECT
AHU-7-LIGHT		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
AHU-8 LIGHT		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
AHU-8-RF-1	20	480 V	3	34	3	#4	#8	1-1/4"	VFD WITH INTEGRAL DISCONNECT
AHU-8-SF-1	20	480 V	3	27	3	#4	#10	1-1/4"	VFD WITH INTEGRAL DISCONNECT
AHU-8-SF-2	20	480 V	3	27	3	#4	#10	1-1/4"	VFD WITH INTEGRAL DISCONNECT
AUTO DOOR		120 V	1	4	2	#12	#12	3/4"	SINGLE POINT CONNECTION
AUTO SINK		120 V	1	2	3	#12	#12	3/4"	SINGLE POINT CONNECTION
B-1		480 V	3	15	3	#12	#12	3/4"	NEMA 1 DISCONNECT
B-2		480 V	3	15	3	#12	#12	3/4"	NEMA 1 DISCONNECT
B-3		480 V	3	15	3	#12	#12	3/4"	NEMA 1 DISCONNECT
BOILER/W.H. SHUTDOWN PANEL		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
CDWP-1	20	480 V	3	27	3	#4	#10	1-1/4"	VFD WITH INTEGRAL DISCONNECT
CDWP-2	20	480 V	3	27	3	#4	#10	1-1/4"	VFD WITH INTEGRAL DISCONNECT
CDWP-3	20	480 V	3	27	3	#4	#10	1-1/4"	VFD WITH INTEGRAL DISCONNECT
CH-1		480 V	3	223.7	3	600KCM	#3	4"	SINGLE POINT CONNECTION
CH-2		480 V	3	223.7	3	600KCM	#3	4"	SINGLE POINT CONNECTION
CHWP-1	25	480 V	3	34	3	#4	#8	1-1/4"	VFD WITH INTEGRAL DISCONNECT
CHWP-2	25	480 V	3	34	3	#4	#8	1-1/4"	VFD WITH INTEGRAL DISCONNECT
CHWP-3	25	480 V	3	34	3	#4	#8	1-1/4"	VFD WITH INTEGRAL DISCONNECT
COILING DOOR		120 V	1	5	2	#12	#12	3/4"	SINGLE POINT CONNECTION
CP-1	0.083	120 V	1	4	2	#12	#12	3/4"	TOGGLE DISCONNECT/MANUAL MOTOR STARTER
CP-2	0.4	120 V	1	10	2	#12	#12	3/4"	TOGGLE DISCONNECT/MANUAL MOTOR STARTER
CT-1	15	480 V	3	21	3	#8	#10	3/4"	VFD WITH INTEGRAL DISCONNECT AND LOCAL NEMA 3R DISCONNECT
CT-2	15	480 V	3	21	3	#8	#10	3/4"	VFD WITH INTEGRAL DISCONNECT AND LOCAL NEMA 3R DISCONNECT
CUH-1	0.05	120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
CUH-2	0.05	120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
CUH-3	0.05	120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
CUH-4	0.05	120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
CUH-5	0.05	120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
CUH-6	0.05	120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
CUH-7	0.05	120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
CUH-8	0.05	120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
CUH-9	0.05	120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
CUH-10	0.05	120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
CUH-11	0.05	120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
CUH-12	0.05	120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
DSI-1		208 V	1	0	2	#12	#12	3/4"	TOGGLE DISCONNECT
DSI-2		208 V	1	0	2	#12	#12	3/4"	TOGGLE DISCONNECT
DSI-3		208 V	1	0	2	#10	#10	3/4"	TOGGLE DISCONNECT
DSI-4		208 V	1	0	2	#12	#12	3/4"	TOGGLE DISCONNECT
DSO-1		208 V	1	10	2	#12	#12	3/4"	NEMA 3R DISCONNECT
DSO-2		208 V	1	7.4	2	#12	#12	3/4"	NEMA 3R DISCONNECT
DSO-3		208 V	1	15.1	2	#10	#10	3/4"	NEMA 3R DISCONNECT
DSO-4		208 V	1	10	2	#12	#12	3/4"	NEMA 3R DISCONNECT
ECUH-1		277 V	1	14.4	2	#12	#12	3/4"	SINGLE POINT CONNECTION
ECUH-2		277 V	1	14.4	2	#12	#12	3/4"	SINGLE POINT CONNECTION
EF-1	0.5	120 V	1	9.8	2	#12	#12	3/4"	SINGLE POINT CONNECTION
EF-2	0.5	120 V	1	9.8	2	#12	#12	3/4"	SINGLE POINT CONNECTION
EF-3	0.5	120 V	1	9.8	2	#12	#12	3/4"	SINGLE POINT CONNECTION
EF-4	0.5	120 V	1	9.8	2	#12	#12	3/4"	SINGLE POINT CONNECTION
EF-5	1	480 V	3	2.1	3	#12	#12	3/4"	NEMA 0 SIZE COMBINATION MOTOR STARTER IN NEMA-1 ENCLOSURE
EF-6	0.5	120 V	1	9.8	2	#12	#12	3/4"	SINGLE POINT CONNECTION
EF-7	0.067	120 V	1	1	2	#12	#12	3/4"	SINGLE POINT CONNECTION
EF-8	0.75	120 V	1	13.8	2	#12	#12	3/4"	SINGLE POINT CONNECTION
EF-9	1	480 V	1	2.1	3	#12	#12	3/4"	VFD WITH INTEGRAL DISCONNECT
FAA		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
FACP		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
FSD		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
HCP-1	0.25	120 V	1	5.8	2	#12	#12	3/4"	TOGGLE DISCONNECT/MANUAL MOTOR STARTER
HCP-2	0.25	120 V	1	5.8	2	#12	#12	3/4"	TOGGLE DISCONNECT/MANUAL MOTOR STARTER
HWP-1	20	480 V	3	27	3	#4	#10	1-1/4"	VFD WITH INTEGRAL DISCONNECT
HWP-2	20	480 V	3	27	3	#4	#10	1-1/4"	VFD WITH INTEGRAL DISCONNECT
HWP-3	20	480 V	3	27	3	#4	#10	1-1/4"	VFD WITH INTEGRAL DISCONNECT
LV XFMR		120 V	1	4	2	#12	#12	3/4"	SINGLE POINT CONNECTION
MOTORIZED PROJECTOR SCREEN		120 V	1	4	2	#12	#12	3/4"	RECEPTACLE
NAC		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
PUH-1	0.5	120 V	1	2	2	#10	#10	3/4"	TOGGLE DISCONNECT
PUH-2	0.5	120 V	1	2	2	#10	#10	3/4"	TOGGLE DISCONNECT
PUH-3	0.5	120 V	1	2	2	#10	#10	3/4"	TOGGLE DISCONNECT
PUH-4	0.5	120 V	1	2	2	#10	#10	3/4"	TOGGLE DISCONNECT
PUH-5	0.5	120 V	1	2	2	#10	#10	3/4"	TOGGLE DISCONNECT
PUH-6	0.5	120 V	1	2	2	#10	#10	3/4"	TOGGLE DISCONNECT
PUH-7	0.5	120 V	1	2	2	#10	#10	3/4"	TOGGLE DISCONNECT
PUH-8	0.5	120 V	1	2	2	#10	#10	3/4"	TOGGLE DISCONNECT
PUH-9	0.08	120 V	1	2	2	#12	#12	3/4"	TOGGLE DISCONNECT
PUH-10	0.08	120 V	1	2	2	#12	#12	3/4"	TOGGLE DISCONNECT
PUH-11	0.08	120 V	1	2	2	#12	#12	3/4"	TOGGLE DISCONNECT
PUH-12	0.08	120 V	1	2	2	#12	#12	3/4"	TOGGLE DISCONNECT
REFRIGERANT MONITOR CONTROL		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
TCP		120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
UH-1	0.05	120 V	1	2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
VF-1		480 V	3	3	3	#12	#12	3/4"	NEMA 0 SIZE COMBINATION MOTOR STARTER IN NEMA-1 ENCLOSURE
VF-2		120 V	1	9.8	2	#12	#12	3/4"	SINGLE POINT CONNECTION
VF-3		120 V	1	7.2	2	#12	#12	3/4"	SINGLE POINT CONNECTION
WH-1	0.5	120 V	1	12	2	#12	#12	3/4"	TOGGLE DISCONNECT
WH-2	0.5	120 V	1	12	2	#12	#12	3/4"	TOGGLE DISCONNECT
WS-1A		120 V	1	12	2	#12	#12	3/4"	TOGGLE DISCONNECT
WS-1B		120 V	1	12	2	#12	#12	3/4"	TOGGLE DISCONNECT

LIGHTING FIXTURE SCHEDULE - EXTERIOR

NOTES:

UNIT ID	BASE MANUFACTURER	EQUAL MANUFACTURER	LAMP	VOLTS	WATTS	UNITS	LUMENS	UNITS	CCT	LOCATION(S)	MOUNT	DESCRIPTION
EL1	JUNO: JSF-11IN-13LM-SWW5-90CRI-MVOLT-ZT-WH-EBX	COOPER: SMD12, ENGINEER APPROVED EQUAL	LED	277 V	15 W	/FIXTURE	1500LM	/FIXTURE	4000K	EXTERIOR	SURFACE	11" SURFACE MOUNTED LED DOWNLIGHT WITH EMPTY BACK BOX. SELECTABLE CCT (27/30/35/40/50) SET TO 4000K. 90 CRI MIN.
EL1E	JUNO: JSF-11IN-13LM-SWW5-90CRI-MVOLT-ZT-WH-EM	COOPER: SMD12, ENGINEER APPROVED EQUAL	LED	277 V	15 W	/FIXTURE	1500LM	/FIXTURE	4000K	EXTERIOR	SURFACE	SAME AS TYPE EL1 WITH INTEGRAL BATTERY BACKUP.
EL2	LITHONIA: WF6-SQ-S-LED-30/40/50-90CRI-X	HALO: SMD6S, ENGINEER APPROVED EQUAL	LED	277 V	13 W	/FIXTURE	800LM	/FIXTURE	4000K	CANOPY	RECESSED	6" SQUARE CANLESS LED DOWNLIGHT. TRIM FINISH PER ARCHITECT. WET LOCATION RATED FOR COVERED CEILING. 90 CRI MIN. SELECTABLE CCT SET TO 4000K.
EM2	ISOLITE: ODLM-10-EM-X-MMX-SD-EB	EVENLITE: DECOR DESIGNER MM, ENGINEER APPROVED EQUAL	LED	277 V	10 W	/FIXTURE	500LM	/FIXTURE	4000K	EGRESS	MULLION	WET LOCATION MULLION MOUNTED LED EGRESS LIGHT WITH FINISH PER ARCHITECT. COORDINATE TOP OR REAR MOUNT WITH DOOR FABRICATOR. SELF DIAGNOSTICS.
S1	LITHONIA: RSX1-LED-P2-49K-R5-277-X--X / RSA-15-X-DM19AS-FBC-X	EQUAL BY SPECIFIED LIGHTING OR RABB	LED	277 V	75 W	/FIXTURE	10,000LM	/FIXTURE	4000K	SITE	15' POLE	LED AREA LIGHT WITH TYPE 5 DISTRIBUTION ON 15' ROUND STRAIGHT POLE WITH FULL BASE COVER. FINISH TO MATCH EXISTING SITE LIGHTING.
S2	LITHONIA: DSXF2-LED-P1-40K-70CRI-MFL-MVOLT-THK-X	MCGRAW EDISON, EGINEER APPROVED EQUAL	LED	277 V	52 W	/FIXTURE	7000LM	/FIXTURE	4000K	FLAG		LED FLAG LIGHT WITH MEDIUM FLOOD DISTRIBUTION. FINISH PER ARCHITECT.
SW1E	ISOLITE: OWL-EM-X-MB-HX	EVENLITE: WW, ENGINEER APPROVED EQUAL	LED	277 V	17 W	/FIXTURE	1500LM	/FIXTURE	4000K	EGRESS	SURFACE	EXTERIOR RATED EMERGENCY EGRESS LIGHT. FINISH PER ARCHITECT. INTEGRAL BATTERY BACKUP WITH HEATER. FIXTURE TO OPERATE IN NORMAL AND EMERGENCY FUNCTION.
SW2	LITHONIA: WDGE3LED-P2-80CRI-R4-MVOLT-SRM-X	STREETWORKS: GAW, ENGINEER APPROVED EQUAL	LED	277 V	60 W	/FIXTURE	8000LM	/FIXTURE	4000K	FACADE	SURFACE	LED ARCHITECTURAL WALL PACK WITH TYPE 4 DISTRIBUTION. FINISH PER ARCHITECT FROM MANUFACTURERS STANDARD FINISHES.
SW3	ALIGHT: ALD2ST-6-ILS/DLS-40-80-U-ASY/BW-HE-R-X-1-X-Q	EQUAL BY SPECIFIED LIGHTING OR RABB	LED	277 V	10 W	/FOOT	1000LM	/FOOT	4000K	ENTRY	SURFACE	6' WALL MOUNTED WET LOCATION LINEAR WITH DIRECT BATWING / INDIRECT ASYMMETRIC OPTIC. FINISH PER ARCHITECT FROM MANUFACTURERS STANDARD FINISHES.

LIGHTING FIXTURE SCHEDULE - INTERIOR

NOTES:
1. COLOR TEMPERATURE FOR CLASSROOMS, OFFICES AND MEDIA CENTER TO BE 3500K. THE COLOR TEMPERATURE FOR ALL OTHER AREAS TO BE 4000K.

UNIT ID	BASE MANUFACTURER	EQUAL MANUFACTURER	LAMP	VOLTS	WATTS	UNITS	LUMENS	UNITS	CCT	LOCATION(S)	MOUNT	DESCRIPTION
L1	LITHONIA: CPX-2X4-AL08-80CRI-SWW7-SWL-277	METALUX: CGTS, RAB: EZPAN	LED	277 V	48 W	/FIXTURE	6000LM	/FIXTURE	VARIES	CLASSROOM	RECESSED	2'x4' BACK LIT FLAT PANELTYPE FIXTURE. 0-10V DIMMING TO 10%. SATIN WHITE DIFFUSER. SELECTABLE OUTPUT AND LUMEN PACKAGE. LUMEN PACKAGE SET TO 6000LM. CCT SET TO 3500K.
L1E	LITHONIA: CPX-2X4-AL08-80CRI-SWW7-SWL-277-E7W	METALUX: CGTS, RAB: EZPAN	LED	277 V	48 W	/FIXTURE	6000LM	/FIXTURE	VARIES	CLASSROOM	RECESSED	SAME AS TYPE L1 WITH INTEGRAL BATTERY BACKJUP.
L2	LITHONIA: STAKS-24-AL06-SWW7	METALUX: R2X, RAB: SWISH	LED	277 V	49 W	/FIXTURE	5000LM	/FIXTURE	4000K	GENERAL	RECESSED	2'X4' ARCHITECTURAL TROFFER WITH CENTER BASKET LENS. 0-10V DIMMING TO 10%. SELECTABLE OUTPUT (40L/50L/60L) SET TO 5000LM. SELECTABLE CCT (35K/40K/50K) SET TO 40K..
L2E	LITHONIA: STAKS-24-AL06-SWW7--ILBP-CP10 HE SD A	METALUX: R2X, RAB: SWISH	LED	277 V	49 W	/FIXTURE	5000LM	/FIXTURE	4000K	GENERAL	RECESSED	SAME AS TYPE L2 WITH INTEGRAL BATTERY BACKUP
L3	LITHONIA: LDN6-40/15-L06-AR-LD-X-277-GZ10-X	HALO: HC6. EQUAL AS APPROVED BY ENGINEER	LED	277 V	18 W	/FIXTURE	1500LM	/FIXTURE	4000K	GENERAL	REC 0 ACT	6" RECESSED LED DOWNLIGHT WITH CLEAR MATTE DIFFUSE REFLECTOR. DIMMING TO 10%.
L3E	LITHONIA: LDN6-40/15-L06-AR-LD-X-277-GZ10-E10CWP	HALO: HC6. EQUAL AS APPROVED BY ENGINEER	LED	277 V	18 W	/FIXTURE	1500LM	/FIXTURE	4000K	GENERAL	REC. - ACT	SAME AS TYPE L3 WITH INTEGRAL BATTERY BACKUP.
L4	LITHONIA: CPX-1X4-4000-80-40-SWL-MIN10-ZT-277-X	METALUX: CGTS, RAB: EZPAN	LED	277 V	36 W	/FIXTURE	4000LM	/FIXTURE	4000K	GENERAL	RECESSED	1'X4' BACK LIT LED FLAT PANEL TYPE FIXTURE. 0-10V DIMMING TO 10%. SATIN WHITE LENS.
L4E	LITHONIA: CPX-1X4-4000-80-40-SWL-MIN10-ZT-277-E10WLCP	METALUX: CGTS, RAB: EZPAN	LED	277 V	36 W	/FIXTURE	4000LM	/FIXTURE	4000K	GENERAL	RECESSED	SAME AS TYPE L4 WITH INTEGRAL BATTERY BACKUP.
L5	LITHONIA: CSS-48-4000LM-MVOLT-40K-80CRI	METALUX: SNX, RAB: STRP-LED	LED	277 V	35 W	/FIXTURE	4000LM	/FIXTURE	4000K	BOH	VARIES	4' LINEAR LED STRIP WITH LENS. PROVIDE AC CABLE WHERE SUSPENDED.
L5E	LITHONIA: CSS-48-4000LM-MVOLT-40K-80CRI-IE10WCPHE	METALUX: SNX, RAB: STRP-LED	LED	277 V	35 W	/FIXTURE	4000LM	/FIXTURE	4000K	BOH	VARIES	SAME AS TYPE L5 WITH INTEGRAL BATTERY BACKUP.
L6	LITHONIA: CSS-L24-MVOLT-40K-80CRI	METALUX: SNX, RAB: STRP-LED	LED	277 V	15 W	/FIXTURE	2000LM	/FIXTURE	4000K	MECH / ELEC	VARIES	2' LINEAR LED STRIP WITH LENS.
L6E	LITHONIA: CSS-L24-MVOLT-40K-80CRI	METALUX: SNX, RAB: STRP-LED	LED	277 V	15 W	/FIXTURE	2000LM	/FIXTURE	4000K	MECH / ELEC	VARIES	SAME AS TYPE L6 WITH INTEGERAL BATTERY BACKUP.
L7	BARTCO: HL2-8-6-DB2-40-X-1-NA-HA-C4	PICASSO: APEX, ENGINEER APPROVED EQUAL	LED	277 V	11 W	/FOOT	800LM	/FOOT	4000K	COLLAB	SUSPENDED - WOOD	LINEAR LED PENDANT WITH DIRECT DISTRIBUTION. ACCOUSTICAL WRAP IN FINISH PER ARCHITECT.
L8	LITHONIA: STAKS-2X2-ALO3-SWW7	METALUX: R2X, RAB: SWISH	LED	277 V	41 W	/FIXTURE	4000 LM	/FIXTURE	3500K	GENERAL	RECESSED	2'X2' RECESSED CENTER BASKET TROFFER WITH 0-10V DIMMING TO 10%. SELECTABLE OUTPUT (30L/40L/50L) SET TO 40L AND SELECTABLE COLOR TEMPERATURE (35K/40K/50K) SET TO 3500K.
L8E	LITHONIA: STAKS-2X20-ALO3-SWW7-ILBP-CP10-HE-SD-A	METALUX: R2X, RAB: SWISH	LED	277 V	41 W	/FIXTURE	4000 LM	/FIXTURE	3500K	GENERAL	RECESSED	SAME AS TYPE L8 WITH INTEGRAL BATTERY BACKUP.
L9	QTRAN: ATOM-02-SW-2-40-DRY-20D-X-X-SST-PER DRAWING / QZ-STICK-PH-0/10	FOCAL POINT: SEEM 2, ENGINEER APPRPOVED EQUAL	LED	277 V	2 W	/FOOT	144	/FOOT	4000K	DISPLAY	REC - GYP	LINEAR LED TAPE WITH EXTRUSION AND 20 DEGREE DIFFUSE LENS. FINISH PER ARCHITECT. LENGHT PER DRAWINGS.
L10	JUNO: 2LEDDRIVER-G2-06LM-MVOLT-ZT / 2LEDTRIM-G2-DC-35K-80CRI-FL-X	LUX: LA YR2.0, ENGINEER APPROVED EQUAL	LED	277 V	11 W	/FIXTURE	600LM	/FIXTURE	3500K	OFFICE	RECESSED	2" RECESSED LED DOWNLIGHT WITH FINISH PER ARCHITECT. 0-10V DIMMING TO 10%.
L11	INDY: LC6-P-33LM-40K-277-X-G4-80-ZT-X	HALO: HCC6, EQUAL AS APPROVED BY ENGINEER	LED	277 V	31 W	/FIXTURE	3300LM	/FIXTURE	4000K	GENERAL	SUSPENDED	4" CYLINDER WITH GENERAL DISTRIBUTION ON RIGID STEM. FINISH PER ARCHITECT. DIMMING TO 10%.
L11E	INDY: LC6-P-33LM-40K-277-X-G4-80-ZT-X	HALO: HCC6, EQUAL AS APPROVED BY ENGINEER	LED	277 V	31 W	/FIXTURE	3300LM	/FIXTURE	4000K	GENERAL	SUSPENDED	SAME AS TYPE L11 WITH INTEGRAL BATTERY BACKUP.
L12	LITHONIA: LDN6-35-15-L06-AR-LD-FRALTBD-277-D10-X	HALO: HC6, EQUAL AS APPROVED BY ENGINEER	LED	277 V	18 W	/FIXTURE	1500LM	/FIXTURE	VARIES	OFFICE	REC. - WOOD	6" RECESSED DOWNLIGHT IN WOOD CEILING. CUSTOM RAL# TO BE PROVIDED BY ARCHITECT. 0-10V DIMMING TO 10%.
L12E	LITHONIA: LDN6-35-15-L06-AR-LD-FRALTBD-277-D10-X-EM10	HALO: HC6, EQUAL AS APPROVED BY ENGINEER	LED	277 V	18 W	/FIXTURE	1500LM	/FIXTURE	VARIES	OFFICE	REC. - WOOD	SAME AS TYPE L27 WITH INTEGRAL BATTERY BACKUP.
L14	PRULITE: BOLTPRO-LED35-SO-4-SAL-X-UNV-SUR-X1-DIM-	LUMENWERX: QUAD WIDE, ENGINEER APPROVED EQUAL	LED	277 V	9 W	/FOOT	1300LM	/FOOT	VARIES	MEDIA, CAFETERIA, ART	SURFACE	4' LINEAR LED FIXTURE WITH 3 SIDED DIFFUSER. FINISH PER ARCHITECT FROM MANUFACTURERS STANDARD FINISHES. WHERE MOUNTED IN RUNS PROVIDE MAX RUN LENGTH WITH CONTINUOUS APPEARANCE. LENGTH AS INDICATED PER DRAWINGS. DIMMING TO 10%.
L14E	PRULITE: BOLTPRO-LED35-SO-4-SAL-X-UNV-SUR-X1-DIM-EMHE	LUMENWERX: QUAD WIDE, ENGINEER APPROVED EQUAL	LED	277 V	9 W	/FOOT	1300LM	/FOOT	VARIES	MEDIA, CAFETERIA, ART	SURFACE	SAME AS TYPE L14 WITH INTEGRAL BATTERY BACKUP.
L15	PRULITE: BOLTPRO-LED35-SO-6-SAL-X-UNV-SUR-X1-DIM-	LUMENWERX: QUAD WIDE, ENGINEER APPROVED EQUAL	LED	277 V	9 W	/FOOT	1300LM	/FOOT	VARIES	MEDIA, CAFETERIA, ART	SURFACE	6' LINEAR LED FIXTURE WITH 3 SIDED DIFFUSER. FINISH PER ARCHITECT FROM MANUFACTURERS STANDARD FINISHES. WHERE MOUNTED IN RUNS PROVIDE MAX RUN LENGTH WITH CONTINUOUS APPEARANCE. LENGTH AS INDICATED PER DRAWINGS. DIMMING TO 10%.
L16	PRULITE: BOLTPRO-LED35-SO-8-SAL-X-UNV-SUR-X1-DIM-	LUMENWERX: QUAD WIDE, ENGINEER APPROVED EQUAL	LED	277 V	9 W	/FOOT	1300LM	/FIXTURE	3500K	MEDIA, CAFETERIA, ART	SURFACE	8' LINEAR LED FIXTURE WITH 3 SIDED DIFFUSER. FINISH PER ARCHITECT FROM MANUFACTURERS STANDARD FINISHES. WHERE MOUNTED IN RUNS PROVIDE MAX RUN LENGTH WITH CONTINUOUS APPEARANCE. LENGTH AS INDICATED PER DRAWINGS. DIMMING TO 10%.
L17	LITHONIA: LDN4-AL02-SWW1-L04-AR-MVOLT-UGZ-	HALO: HC6, EQUAL BY RAB	LED	277 V	13 W	/FIXTURE	1000LM	/FIXTURE	4000K	SHOWERS	RECESSED	4" RECESSED LED DOWNLIGHT WITH SHOWER RATING. LUMEN OUTPUT SET TO 1000LM AND CCT SET TO 4000K.
L18	LITHONIA: 2GTL-4-72L-A12125-277-GZ10-LP840-ABC	METALUX: GRLED, ENGINEER APPROVED EQUAL	LED	277 V	54 W	/FIXTURE	7200LM	/FIXTURE	4000K	FOOD SERVICE	RECESSED	2'X4' LENSED TROFFER WITH GASKETING. RATED FOR FOOD SERVICE. MIN .125" LENS.
L18E	LITHONIA: 2GTL-4-72L-A12125-277-GZ10-LP840-ABC-EL14L	METALUX: GRLED, ENGINEER APPROVED EQUAL	LED	277 V	54 W	/FIXTURE	7200LM	/FIXTURE	4000K	FOOD SERVICE	RECESSED	SAME AS TYPE L18 WITH INTEGRAL BATTERY BACKUP.
L19	GOTHAM: EVO-ARTC-RGBW/12-4AR-MD-LD-277-DMX	LUMENWERX: AERA4, ENGINEER APPROVED EQUAL	LED	277 V	31 W	/FIXTURE	1259LM	/FIXTURE	VARIES	SENSORY	RECESSED	4" LED DOWNLIGHT WITH RGBW COLOR CHANGING. DMX CONTROL STATION TO BE PROVIDED AS INDICATED PER DRAWING. DIMMING TO 10%.
L20	ALIGHT: ACL4-X-LS-40K-80CRI-U-N-D-R-X-D	PICASSO: APEX, ENGINEER APPROVED EQUAL	LED	277 V	5 W	/FOOT	350	/FOOT	4000K	COLLAB	SURFACE	WALL MOUNTED LINEAR UPLIGHT WITH LENGTH PER DRAWINGS. ASYMMETRIC DISTRIBUTION. DIMMING TO 10%. FINISH PER ARCHITECT.
L21	LITHONIA: LDN6-40-25-L06-AR-LD-277-D10-X	HALO: HC6, EQUAL AS APPROVED BY ENGINEER	LED	277 V	28 W	/FIXTURE	2500LM	/FIXTURE	VARIES	CAFETERIA	REC - ACT	6" RECESSED DOWNLIGHT IN WOOD CEILING. CUSTOM RAL# TO BE PROVIDED BY ARCHITECT. 0-10V DIMMING TO 10%.
L21E	LITHONIA: LDN6-40-25-L06-AR-LD-277-D10- X-EM10	HALO: HC6, EQUAL AS APPROVED BY ENGINEER	LED	277 V	28 W	/FIXTURE	2500LM	/FIXTURE	VARIES	CAFETERIA	REC - ACT	SAME AS TYPE L27 WITH INTEGRAL BATTERY BACKUP.
L22	PINNACLE: EV2DPM-A-35-X-2-FSD-0-X	FOCAL POINT: SEEM2, EQUAL AS APPROVED BY ENGINEER	LED	277 V	5 W	/FOOT	600LM	/FOOT	VARIES	OFFICE	RECESSED	2" RECESSED PERIMETER WALL SLOT. LENGTH PER DRAWING.
L23	LITHONIA: LDN6-40-30-L06-AR-LD-277-D10-X	HALO: HC6, EQUAL AS APPROVED BY ENGINEER	LED	277 V	35 W	/FIXTURE	3000LM	/FIXTURE	4000K	GENERAL	RECESSED	6" ROUND DOWNLIGHT WITH GENERAL DISTRIBUTION AND CLEAR MATTE DIFFUSE REFLECTOR. 0-10V DIMMING TO 10%.
L23E	LITHONIA: LDN6-40-30-L06-AR-LD-277-D10- X-EM10	HALO: HC6, EQUAL AS APPROVED BY ENGINEER	LED	277 V	35 W	/FIXTURE	3000LM	/FIXTURE	VARIES	GENERAL	RECESSED	SAME AS TYPE L27 WITH INTEGRAL BATTERY BACKUP.
L24	QTL: LL1SW-3-35-DRY-STD-DF-X-X-SST-X-X / QT-CAB-QZ-PH/0-10V	LUMINII: KENDO, ENGINEER APPROVED EQUAL	LED	277 V	3 W	/FOOT	200LM	/FOOT	3500K	ACCENT	SURFACE	LED TAPELIGHT IN LALO EXTRUSION WITH DIFFUSE DIODE-FREE LENS. REMOTE DIMMING DRIVER TO BE LOCATED IN FIELD. FINISH PER ARCHITECT. 200LM/FT MIN. EXTRUSION NOT TO EXCEED .7"W AND .5"H.
L25	QTL: EB1SW=3-35-STD-DRY-STD-DF-X-X-SP=X / QT-CAB-QZ-PH/0-10V	LUMINII: KENDO L RECESSED, ENGINEER APPROVED EQUAL	LED	277 V	3 W	/FOOT	200LM	/FOOT	3500K	ACCENT	RECESSED	LED TAPELIGHT IN EXTRUSION. RECESS IN SOFFIT. LENGTH PER DRAWING. FINISH PER ARCHITECT. REMOTE DIMMING DRIVER TO BE LOCATED IN FIELD.
L27	LITHONIA: LDN6-40-25-L06-AR-LD-FRALTBD-277-D10-X	HALO: HC6, EQUAL AS APPROVED BY ENGINEER	LED	277 V	28 W	/FIXTURE	2500LM	/FIXTURE	VARIES	CAFETERIA	REC. - WOOD	6" RECESSED DOWNLIGHT IN WOOD CEILING. CUSTOM RAL# TO BE PROVIDED BY ARCHITECT. 0-10V DIMMING TO 10%.
L27E	LITHONIA: LDN6-40-25-L06-AR-LD-FRALTBD-277-D10-X-EM10	HALO: HC6, EQUAL AS APPROVED BY ENGINEER	LED	277 V	28 W	/FIXTURE	2500LM	/FIXTURE	VARIES	CAFETERIA	REC. - WOOD	SAME AS TYPE L27 WITH INTEGRAL BATTERY BACKUP.
L28	PINNACLE: EV2D-A-835HO-X-X-2-FSD-1-X	FOCAL POINT: SEEM 2, ENGINEER APPRPOVED EQUAL	LED	277 V	7 W	/FOOT	750LM	/FOOT	4000K	CORRIDOR	REC - GYP	2" RECESSED LINEAR LED DOWNLIGHT WITH SPACKLE FLANGE. GENERAL DISTRIBUTION. LENGTH AS INDICATED PER DRAWING.
L29	BARTCO: BSS120-X-40-D-R	LUMENWERX, ENGINEER APPROVED EQUAL	LED	277 V	3 W	/FT	500LM	/FT	4000L	GENERAL	COVE	SHALLOW PROFILE LED COVE LIGHT WITH DIMMING TO 10%.
L30	QTRAN: SLITE-01-SW-2.0-40K-DRY-DF-SC-ST / QT-CAB-QZ-PH / 0-10	LUMENWERX, ENGINEER APPROVED EQUAL	LED	277 V	2 W	/FT	90	/FT	4000L	FLEX	RECESSED	LINEAR LED RECESSED FIXTURE WITH FINISH PER ARCHITECT TO HIGHLIGHT STAINED GLASS. DIMMING TO 10%.
P1	EXISTING SHOWN FOR REFERENCE		LED	277 V						LOBBY	SUSPENDED	6' X 6' SUSPENDED SQUARE WITH DIRECT DISTRIUTION. FINISH PER ARCHITECT. HUNG ON AC CABLE. DIMMING TO 10%. LUMINOUS CORNERS.
P2	FOCAL POINT: DLIA-48-CRV1-12-X-FSDL-CX-5000LM-40K-1C-UNV-X-CXX	UPLIGHT GROUP: ES-OVAXL.LG	LED	277 V	72 W	/FIXTURE	5000LM	/FIXTURE	4000K	LOBBY	SUSPENDED	48" DIAM PET FELT SHADED PENDANT WITH 12"H SHADE. FINISH PER ARCHITECT. CONVEX LENS.
P3	GLIGHTING: GL2726-48LED35-X-1-3	BETA CALCO: POLO, EQUAL AS APPROVED BYT ARCHITECT	LED	277 V	108 W	/FIXTURE	10,000	/FIXTURE	3500K	SMALL GROUP	SUSPENDED	48" DIAMETER LUMINOUS RING. VERTICAL INTEGRAL CANOPY. FINISH PER ARCHITECT.
P5	GLIGHTING: GL2738-36LED35-X-1-3	BETA CALCO: POLO, EQUAL AS APPROVED BYT ARCHITECT	LED	277 V	76 W	/FIXTURE	7000	/FIXTURE	3500K	SMALL GROUP	SUSPENDED	36" DIAMETER LUMINOUS PENDANT. VERTICAL INTEGRAL CANOPY. FINISH PER ARCHITECT.
W1	PINNACLE: L6DI-A-BW-840HO / 840-PER DRAWING-WA-2-FSD-1-XE-X	LUX: ERA WALL, ENGINEER APPROVED EQUAL	LED	277 V	15 W	/FOOT	1450LM	/FOOT	4000K	CORRIDOR	SURFACE	WALL MOUNTED BI-DIRECTIONAL WITH HIGH OUTPUT DIRECT DISTRIBUTION AND STANDARD OUTPUT UPWARD CONTRIBUTION. SATINE LENS. FINISH PER ARCHITECT. PROVIDE EMERGENCY BATTERY SECTIONS AS INDICATED PER DRAWING. SINGLE CIRCUIT.
X1	LITHONIA: LQM-S-W-3-R-120/277-EL-N-M6	SURELITES: APXRG, RAB: EXIT	LED	277 V	2 W	/FIXTURE		/FIXTURE		EGRESS	SURFACE	CEILING MOUNTED WHITE THERMOPLASTIC LED EXIT SIGN WITH ARROWS AS INDICATED PER DRAWING. NICAD BATTERY BACKUP.
X2	LITHONIA: LQM-S-W-3-R-120/277-EL-N-M6	SURELITES: APXRG, RAB: EXIT	LED	277 V	2 W	/FIXTURE		/FIXTURE		EGRESS	SURFACE	MULLION MOUNTED EXIT SIGN WITH INTEGRAL BATTERY BACKUP.

LIGHTING CONTROL SEQUENCE

NOTES:
1 EMERGENCY FIXTURES TO REMAIN ON 24/7 IN PUBLIC SPACES.
2. ALL LIGHTING CONTROLS TO BE LOW VOLTAGE BY ACUITY BRANDS....

CONTROL DESIGNATION	SPACE/AREA TYPE	CONTROL INTENT	COMPONENTS	EMERGENCY	CEILING HEIGHT>12'-0"	NOTES
LC01	CORRIDOR	LIGHTS COME TO FULL ON WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION HAS NOT BEEN DETECTED FOR 10 MINUTES. PROVIDE HIGH MOUNT SENSOR AS INDICATED PER DRAWING.	CEILING MOUNTED 360 DEGREE DUAL TECHNOLOGY OCCUPANCY SENSOR	INTEGRAL BATTERY BACKUP	YES	DISPLAY CASE LIGHTING TO BE CONTROLLED WITH CORRIDOR LIGHTING.
LC02	CLASSROOM	LIGHTS COME ON TO 65% WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION FAILS TO BE DETECTED FOR 20 MINUTES. INTENSITY ADJUSTED BY MANUAL WALL BOX DIMMER. PROVIDE 1 ZONE OF CONTROL FOR GENERAL CLASSROOM AND 1 FOR TEACHIGN WALL.	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH RELAY FOR INTERFACE WITH HVAC SYSTEM AND WALL CONTROL STATION WITH 2 ZONES AND ON / OFF / RAISE / LOWER	INTEGRAL BATTERY BACKUP	NO	
LC03	SMALL GROUP, OFFICES	LIGHTS COME TO FULL ON WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION HAS NOT BEEN DETECTED FOR 10 MINUTES. WALL BOX DIMMER TO ADJUST INTENSITY.	CEILING OR WALL MOUNTED OCCUPANCY SENSOR AND WALL BOX DIMMER	INTEGRAL BATTERY BACKUP	NO	EMERGENCY FIXTURES TO REMAIN ON 24/7
LC04	ELECTRICAL / MECHANICAL	MANUAL ON / OFF.	SNAP SWITCH	INTEGRAL BATTERY BACKUP	NO	
LC05	RESTROOM, STORAGE, CUSTODIALM	LIGHTS COME TO FULL ON WHEN OCCUPANCY IS DETECTED AND TURN OFF WHEN MOTION FAILS TO BE DETECTED FOR 10 MINUTES.	CEILING MOUNTED 360 DEGREE OCCUPANCY SENSOR OR WALL MOUNTED OCCUPANCY SENSOR.	INTEGRAL BATTERY BACKUP	NO	
LC06	OFFICE	LIGHTS COME ON WHEN MOTION DETECTED BY CEILING MOUNTED OCCUPANCY SENSOR. WHEN MOTION FAILS TO BE DETECTED FOR 10 MINUTES LIGHTS TURN OFF. LIGHT INTENSITY ADJUSTED USING MANUAL WALL BOX DIMMER AS INDICATED PER DRAWING.	CEILING MOUNTED 360 DGREE OCCUPANCY SENSOR & MANUAL WALL BOX DIMMER.	INTEGRAL BATTERY BACKUP	NO	PROVIDE COMBINATION WALL BOX DIMMER / OCCUPANCY SENSOR AS INDICATED PER DRAWING.
LC07	MEDIA CENTER, FLEX CLASSROOM, CAFETERIA	LIGHTS COME TO FULL ON WHEN OCCUPANCY IS DETECTED AND TURN OFF WHEN MOTION FAILS TO BE DETECTED FOR 10 MINUTES. 4 ZONE LIGHTING CONTROLLER TO BE PROVIDED AND TO CORRESPOND WITH SWITCHLEGS AS INDICATED PER DRAWING. CONTROLLER TO INCLUDE ON / OFF / RAISE LOWER FUNCTIONALITY.	HIGH MOUNT 360 DEGREE PIR OCCUPANCY SENSOR & 2 ZONE SCENE CONTROLER WITH ON / OFF RAISE LOWER	INTEGRAL BATTERY BACKUP	YES	PROVIDE LOCKOUT / COVER FOR ANY WALL MOUNTED CONTROLS.
LC08	CAFETERIA	OCCUPANCY SENSOR TRIGGERS NLIGHT SYSTEM TO TURN ON ALL CAFETERIA LIGHTS TO 40% OUTPUT. LIGHT LEVEL ADJUSTED USING 8-BUTTON (4 SCENE + ON/OFF, RAISE/LOWER). DIMMING SWITCHES TO ADJUST LIGHT INTENSITY FROM 0-100%. PRESET SCENES TO BE COORDINATED WITH OWNER. WHEN MOTION FAILS TO BE DETECTED FOR 20 MINUTES LIGHTS TURN OFF.	NLIGHT SYSTEM COMPONENTS TO BE PROVIDED - HIGH MOUNT OCCUPANCY SENSORS, SCENE SWITCHES	INTEGRAL BATTERY BACKUP	YES	PROVIDE LOCKOUT / COVER FOR ANY WALL MOUNTED CONTROLS.
LC09	SENSORY	GENERAL LIGHTING TURNED ON / OFF USING CONTROLS ON OUTSIDE OF ROOM. DOWNLIGHT COLOR CHANGES BY WAY OF DMX CONTROLLER MOUNTED ADJACENT TO GENERAL LIGHTING CONTROLS FOR SPACE.	MANUAL WALL BOX DIMMER & DMX CONTROLLER	INTEGRAL BATTERY BACKUP	NO	
LC10	EXTERIOR	SITE AND BUILDING MOUNTED LIGHTING TURNS ON/OFF BY WAY OF ASTRONOMIC TIME CLOCK.	PROGRAMMABLE ASTRONOMIC TIMECLOCK WITH PHOTOCELL & 8 CIRCUIT RELAY PANEL	INTEGRAL BATTERY BACKUP	NO	
LC11	COLLABORATION	LIGHTS TURN ON AND INTENSITY ADJUSTED MANUALLY BY WAY OF 2-ZONE WALL CONTROL STATION WITH ON/OFF, RAISE/LOWER. UPLIGHTS TO BE CONTROLLED SEPARATELY FROM TROFFERS. WHEN MOTION HAS NOT BEEN DETECTED FOR 30 MINUTES FIXTURES TURN OFF.	CEILING MOUNTED 360 DEGREE OCCUPACNY SENSOR	INTEGRAL BATTERY BACKUP	YES	PROVIDE KEYED SWITCH OR LOCKABLE COVER
LC12	KITCHEN	LIGHTS COME ON USING MANUAL SNAP SWITCH. LIGHTS TURN OFF WHEN MOTION FAILS TO BE DETECTED FOR 30 MINUTES.	CEILING MOUNTED 360 DEGREE OCCUPANCY SENSOR AND MANUAL SNAP SWITCH.	INTEGRAL BATTERY BACKUP	NO	
LC13	ART	LIGHTING COMES ON WHEN MOTION DETECTED BY CEILING MOUNTED 360 DEGREE OCCUPANCY SENSOR. LIGHTING TURNS OFF WHEN MOTION FAILS TO BE DETECTED FOR 30 MINUTES. 3 ZONES CONTROLLER TO BE PROVIDED TO CONTROL COVE, LINEAR FIXTURES AND RECESSED DOWNLIGHTS SEPARATELY. CONTROLLER TO HAVE ON / OFF / RAISE LOWER CAPABILITY.	CEILING MOUNTED 360 DEGREE OCCUPACNY SENSOR	INTEGRAL BATTERY BACKUP	YES	

krM Architecture+

kbso CONSULTING

REVISIONS

1	7/29/24	Addendum #1

07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd, Fishers, IN 46037
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER
07.12.2024

CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
MHS

DRAWING NAME
ELECTRICAL SCHEDULES

DRAWING NO.
E6-1

Switchboard: MDP

Location: ELECTRICAL/ FIRE ALARM 305
Supply From:
Mounting: SURFACE
Enclosure:

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65 kA
Mains Type:
Mains Rating: 2500 A
MCB Rating: 2000 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	CH-1 -MECH RM	3	400 A	400 A	178000 VA	
2	CH-2-MECH RM	3	400 A	400 A	178000 VA	
3	TVSS	3	60 A	60 A	0 VA	
4	PANEL BL	3	200 A	200 A	0 VA	
5	MTS-1	3	400 A	400 A	0 VA	
6	PANEL DL	3	200 A	200 A	0 VA	
7	M3H	3	200 A	200 A	102000 VA	
8	SPARE	3	200 A	200 A	0 VA	
9	SPARE	3	60 A	60 A	0 VA	
10	SPARE	3	200 A	200 A	0 VA	
11	DIMMER PANEL	3	200 A	200 A	0 VA	
12	M2H	3	200 A	200 A	102000 VA	
13	75 KVA XMFR T-2	3	200 A	200 A	0 VA	
14	M1H	3	600 A	600 A	317880 VA	
15	SPARE	3	30 A	30 A	0 VA	
16	CT-2 - MECHANICAL RM	3	60 A	40 A	16700 VA	
17	KITCHEN FEEDER	3	400 A	400 A	0 VA	
18	SPACE	1	--	--	--	
19	SPACE	1	--	--	--	
20	SPACE	1	--	--	--	
21	SPACE	1	--	--	--	
22	SPARE	3	30 A	30 A	0 VA	
23	MTS-2	3	400 A	20 A	0 VA	
24	SPACE	3	30 A	30 A	0 VA	
25	CT-1 - MECHANICAL RM	3	60 A	40 A	16700 VA	
26	COMPACTOR	3	30 A	30 A	0 VA	
				Total Conn. Load:	911280 VA	
				Total Amps:	1096 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	36000 VA	100.00%	36000 VA		
Motor	519100 VA	101.30%	525850 VA	**Total Conn. Load:**	911280 VA
Other	356180 VA	100.00%	356180 VA	**Total Est. Demand:**	918030 VA
Miscellaneous Power	0 VA	0.00%	0 VA	**Total Conn.:**	1096 A
FRACTIONAL HP MOTOR	0 VA	0.00%	0 VA	**Total Est. Demand:**	1104 A
INTEGRAL HP MOTOR	0 VA	0.00%	0 VA		

Notes: EXISTING GE SPECTRA SERIES -SWITCHBOARDS TO REMAIN. PROVIDE NEW BREAKERS/FUSED SWITCHES FOR NEW CIRCUITS AS REQUIRED.

Switchboard: HE

Location: ELECTRICAL/ FIRE ALARM 305
Supply From:
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42 kA
Mains Type:
Mains Rating: 400 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	M1HE	3	200 A	200 A	74000 VA	
2	TRANSFORMER-1 PANEL-LE	3	100 A	100 A	0 VA	
3	PANEL-KHE	3	60 A	60 A	0 VA	
4	AIR COMPRESSOR	3	30 A	30 A	0 VA	
5	PANEL GL	3	200 A	200 A	0 VA	
6	SPARE	1	60 A	60 A	0 VA	
7	BOILER-1	3	20 A	20 A	0 VA	
8	SPACE	1	--	--	--	
9	SPACE	1	--	--	--	
10	SPACE	1	--	--	--	
				Total Conn. Load:	74000 VA	
				Total Amps:	89 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	74000 VA	107.26%	79375 VA		
FRACTIONAL HP MOTOR	0 VA	0.00%	0 VA	**Total Conn. Load:**	74000 VA
				Total Est. Demand:	79375 VA
				Total Conn.:	89 A
				Total Est. Demand:	95 A

Notes: EXISTING GE SPECTRA SERIES- APN HEAT RATED PLUG IN STYLE PANEL TO REMAIN. PROVIDE NEW BREAKERS/FUSED SWITCHES FOR NEW CIRCUITS AS REQUIRED.

Switchboard: PDP

Location: ELECTRICAL/ FIRE ALARM 305
Supply From:
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 100 kA
Mains Type:
Mains Rating: 600 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	COLLEGE PARK CHURCH DISCONNECT	3	200 A	200 A	0 VA	
2	K2L & K3L	3	200 A	200 A	0 VA	
3	FP	3	100 A	100 A	0 VA	
4	K2LE	3	200 A	200 A	56928 VA	
5	K1L	3	200 A	200 A	0 VA	
6	M1LE	3	100 A	100 A	21470 VA	
7	UPS	3	100 A	100 A	4500 VA	
8	SPACE	3	--	--	--	
				Total Conn. Load:	82898 VA	
				Total Amps:	230 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	11620 VA	100.00%	11620 VA		
LIGHTING	540 VA	125.00%	675 VA	**Total Conn. Load:**	82898 VA
Motor	4320 VA	108.68%	4695 VA	**Total Est. Demand:**	67152 VA
Other	3730 VA	100.00%	3730 VA	**Total Conn.:**	230 A
RECEPT	36067 VA	63.86%	23034 VA	**Total Est. Demand:**	186 A
Miscellaneous Power	500 VA	100.00%	500 VA		
FRACTIONAL HP MOTOR	0 VA	0.00%	0 VA		
Kitchen	26121 VA	87.66%	22899 VA		

Notes:
Notes: EXISTING GE SPECTRA SERIES- APN HEAT RATED PLUG IN STYLE PANEL TO REMAIN. PROVIDE NEW BREAKERS/FUSED SWITCHES FOR NEW CIRCUITS AS REQUIRED.

REVISIONS

1	7/30/24	Addendum #1

HAMILTON SOUTHEASTERN SCHOOL CORPORATION
07.12.2024
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd. Fishers, IN 46037
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER
07.12.2024

CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
MHS

DRAWING NAME
ELECTRICAL SCHEDULES

DRAWING NO.
E6-2

Branch Panel: 1DP

Location: ELEC 523 | **Volts:** 120/208 Wye | **A.I.C. Rating:** EXISTING AIC
Supply From: T-DP | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1 | **MCB Rating:** 150 A

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	CUH-9/CUH-10 - AREA D	20 A	1	500 0			1	20 A	COMP QUAD	2
3	TCP- MEZZ D	20 A	1		180 0		1	20 A	COM QUAD	4
5	HCP-2 - MEZZ D	20 A	1			700 1200	1	20 A	EF-3 - MEZZ D	6
7	E107	20 A	1	0 0			1	20 A	E102/OUTSIDE	8
9	E107/E105 TV	20 A	1		0 0		1	20 A	TV E102/E104	10
11	EF-3(D MEZZ.)	20 A	1			0 250	1	20 A	CUH-8 - AREA E	12
13	EF-4(D MEZZ.)	20 A	1	0 0			1	20 A	E103/E104	14
15	TCP-MEZZ B	20 A	1		180 0		1	20 A	E104/D102	16
17	E105/E106	20 A	1			0 0	1	20 A	D104/D105	18
19	E105/D154	20 A	1	0 0			1	20 A	D107/D109	20
21	E106/E107	20 A	1		0 0		1	20 A	TV D104/D105	22
23	E107/E105	20 A	1			0 0	1	20 A	D102/D104	24
25	D154/D152	20 A	1	0 0			1	20 A	E102/E104	26
27	D152/D153	20 A	1		0 0		1	20 A	E103/E102/D109	28
29	D150/D152	20 A	1			0 0	1	20 A	TV D107/D109	30
31	TV D150/D148	20 A	1	0 0			1	20 A	TV D107/D109	32
33	D150/D148	20 A	1		0 0		1	20 A	D148/D150	34
35	D149/D150	20 A	1			0 0	1	20 A	D148/D150	36
37	AHU-2- LIGHT	20 A	1	180 0			1	20 A	EXISTING CIRCUIT	38
39	SPARE	20 A	1		0 1200		1	20 A	EF-4 - MEZZ D	40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
		Total Load:		4020 VA	2640 VA	4090 VA				
		Total Amps:		35 A	22 A	36 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1360 VA	100.00%	1360 VA		
LIGHTING	180 VA	125.00%	225 VA	**Total Conn. Load:**	10750 VA
Motor	3100 VA	109.68%	3400 VA	**Total Est. Demand:**	11095 VA
Other	1250 VA	100.00%	1250 VA	**Total Conn.:**	30 A
RECEPT	4860 VA	100.00%	4860 VA	**Total Est. Demand:**	31 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: 1CP

Location: ELEC 014 | **Volts:** 120/208 Wye | **A.I.C. Rating:** EXISTING AIC
Supply From: T-CP | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1 | **MCB Rating:** 150 A

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	AUTO SINK RR	20 A	1	1080 0			1	20 A	EXISTING CIRCUIT	2
3	EXISTING CIRCUIT	20 A	1		0 0		1	20 A	EXISTING CIRCUIT	4
5	EXISTING CIRCUIT	20 A	1			0 0	1	20 A	EXISTING CIRCUIT	6
7	RECEPT-TEACHER DINING/004A	20 A	1	1620 0			1	20 A	F106	8
9	RECEPT-TEACHER DINING...	20 A	1		1500 0		1	20 A	TV F106	10
11	TV C124-C127	20 A	1			0 1500	1	20 A	RECEPT-MOTHERS RM REFRIGERATOR	12
13	C124-C127	20 A	1	0 0			1	20 A	C134-F106	14
15	RECEPT-MOTHERS RM/RR 125,126	20 A	1		900 0		1	20 A	C139-140	16
17	RECEPT-RM 106,104,109	20 A	1			1800 0	1	20 A	ELEC WINDOW SHADE	18
19	RECEPT-RR 107C,107B,110,111	20 A	1	720 0			1	20 A	TV C162-102	20
21	TV F-129	20 A	1		0 0		1	20 A	EXISTING CIRCUIT	22
23	C157-162-113	20 A	1			0 0	1	20 A	SPARE	24
25	RECEPT-TEACHER DINING...	20 A	1	1500 360			1	20 A	RECEPT-RR 121,122	26
27	RECEPT-EWC AREA F	20 A	1		360 360		1	20 A	RECEPT-EWC AREA F	28
29	C145-150	20 A	1			0 1080	1	20 A	RECEPT-RM 015,112,014	30
31	RECEPT - CONCESSIONS EQUIPMENT	20 A	1	1500 0			1	20 A	C148-164	32
33	C150-153-OUTSIDE	20 A	1		0 0		1	20 A	F129-131	34
35	F129	20 A	1			0 0	1	20 A	EXISTING CIRCUIT	36
37	UH-1-VESTIBULE 001	20 A	1	250 1500			1	20 A	RECEPT-TEACHER DINING MICROWAVE	38
39	RECEPT - CONCESSIONS REFRIGERATOR	20 A	1		1500 0		1	20 A	EXISTING CIRCUIT	40
41	EXISTING CIRCUIT	20 A	1			0 0	1	20 A	EXISTING CIRCUIT	42
		Total Load:		16470 VA	17704 VA	18340 VA				
		Total Amps:		137 A	149 A	154 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	4410 VA	100.00%	4410 VA		
LIGHTING	500 VA	125.00%	625 VA	**Total Conn. Load:**	52514 VA
Motor	864 VA	125.00%	1080 VA	**Total Est. Demand:**	34485 VA
RECEPT	46740 VA	60.70%	28370 VA	**Total Conn.:**	146 A
				Total Est. Demand:	96 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: 1BC

Location: ELEC 630 | **Volts:** 120/208 Wye | **A.I.C. Rating:** EXISTING AIC
Supply From: T-BC | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1 | **MCB Rating:** 225 A

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	AUTO SINKS RR	20 A	1	1080 180			1	20 A	ELECTRIC WATER COOLER	2
3	SPARE	20 A	1		0 180		1	20 A	ELECTRIC WATER COOLER	4
5	ELECTRIC WATER COOLER	20 A	1			180 180	1	20 A	ELECTRIC WATER COOLER	6
7	EXISTING CIRCUIT	20 A	1	0 0			1	20 A	EXISTING CIRCUIT	8
9	EXISTING CIRCUIT	20 A	1		0 0		1	20 A	EXISTING CIRCUIT	10
11	EXISTING CIRCUIT	20 A	1			0 0	1	20 A	EXISTING CIRCUIT	12
13	EXISTING CIRCUIT	20 A	1	0 0			1	20 A	A107-A105	14
15	B147-B145	20 A	1		0 0		1	20 A	A105-A107	16
17	B150	20 A	1			0 0	1	20 A	A106	18
19	B145-B147	20 A	1	0 0			1	20 A	A105-A107	20
21	B146	20 A	1		0 0		1	20 A	B151-B147	22
23	B137	20 A	1			0 0	1	20 A	B149-B151	24
25	B134-B136	20 A	1	0 0			1	20 A	B135-B149-B104	26
27	B134-B136	20 A	1		0 0		1	20 A	B134-B136	28
29	B118-B120	20 A	1			0 0	1	20 A	B126-C110	30
31	B127	20 A	1	0 0			1	20 A	B124-B126	32
33	B124	20 A	1		0 0		1	20 A	B125	34
35	B118-B120	20 A	1			0 0	1	20 A	B120-B124	36
37	B119	20 A	1	0 0						38
39	SPARE	20 A	1		0 0		3	50 A	TVSS	40
41	SPARE	20 A	1			0 0				42
		Total Load:		6300 VA	2700 VA	3960 VA				
		Total Amps:		54 A	23 A	35 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	12960 VA	88.58%	11480 VA		
				Total Conn. Load:	12960 VA
				Total Est. Demand:	11480 VA
				Total Conn.:	36 A
				Total Est. Demand:	32 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: 2BC

Location: ELEC 630 | **Volts:** 120/208 Wye | **A.I.C. Rating:** EXISTING AIC
Supply From: 1BC | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	4000 WM	20 A	1	0 0			1	20 A	4000 WM	2
3	COMPUTER	20 A	1		0 0		1	20 A	COMPUTER LAB	4
5	LAB	20 A	1			0 0	1	20 A	SPARE	6
7	B110	20 A	1	0 0			1	20 A	B106-B108	8
9	B107	20 A	1		0 0		1	20 A	B106-B108	10
11	B106-B108	20 A	1			0 0	1	20 A	EXISTING CIRCUIT	12
13	EXISTING CIRCUIT	20 A	1	0 0			1	20 A	A102-A104	14
15	A102-A104	20 A	1		0 0		1	20 A	A102-A104	16
17	A103	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 1440			1	20 A	RECEPT - COLLABORATION RM	20
21	RECEPT - COLLABORATION RM	20 A	1		1440 720		1	20 A	RECEPT - WORK RM	22
23	RECEPT - COLLABORATION RM	20 A	1			1440 360	1	20 A	RECEPT - WORK RM COPIER	24
25	RECEPT - COLLAB HALLWAY	20 A	1	1440 1800			1	20 A	RECEPT - COLLABORATION RM	26
27	RECEPT - COLLAB PRINTER	20 A	1		180 0		1	20 A	COMPUTER	28
29	RECEPT - COLLABORATION 623	20 A	1			1620 0	1	20 A	POD	30
31	RECEPT - CORRIDOR 006	20 A	1	360 0			1	20 A	OUTLET	32
33	DATA 626 IDF RECEPTACLE	20 A	1		180 0		1	20 A	POWER	34
35	DATA 626 IDF RECEPTACLE	20 A	1			180 --	1	--	SPACE	36
37	SPACE	--	1	-- --			1	--	SPACE	38
39	SPACE	--	1		-- --		1	--	SPACE	40
41	SPACE	--	1			-- --	1	--	SPACE	42
		Total Load:		5040 VA	2520 VA	3600 VA				
		Total Amps:		43 A	21 A	31 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	11160 VA	94.80%	10580 VA		
				Total Conn. Load:	11160 VA
				Total Est. Demand:	10580 VA
				Total Conn.:	31 A
				Total Est. Demand:	29 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: 1DC

Location: ELEC 523 | **Volts:** 120/208 Wye | **A.I.C. Rating:** EXISTING AIC
Supply From: T-DC | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	MLU	100 A	2	0 0			2	100 A	MLU	2
3					0 0					4
5	SPARE	20 A	1			0 0	1	20 A	SPARE	6
7	E107/E102/D119	20 A	1	0 0			1	20 A	E102/E104/C122	8
9	E103/D120	20 A	1		0 0		1	20 A	E107/E106/D118	10
11	E107/E105/C123	20 A	1			0 0	1	20 A	E105/E106/D120	12
13	E105/D154	20 A	1	0 0			1	20 A	C122	14
15	D127	20 A	1		0 0		1	20 A	C122/C126	16
17	D107/D109	20 A	1			0 0	1	20 A	D108	18
19	D104/D107	20 A	1	0 0			1	20 A	D110/D109	20
21	D102/D104	20 A	1		0 0		1	20 A	D103	22
23	D154/D152	20 A	1			0 0	1	20 A	D153	24
25	E104/D102	20 A	1	0 0			1	20 A	E104/D102	26
27	D125	20 A	1		0 0		1	20 A	D150/D152	28
29	D148/D150	20 A	1			0 0	1	20 A	D149	30
31	D148/D150	20 A	1	0 0			1	20 A	D104/D152/D131	32
33	D136/D135	20 A	1		0 0		1	20 A	SPARE	34
35	D136/D134	20 A	1			0 0	1	20 A	D134/D136	36
37				0 0			1	20 A	C123	38
39	TVSS	50 A	3		0 0		1	20 A	SPARE	40
41						0 0	1	20 A	SPARE	42
		Total Load:		2880 VA	2160 VA	360 VA				
		Total Amps:		26 A	20 A	3 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	5400 VA	100.00%	5400 VA		
				Total Conn. Load:	5400 VA
				Total Est. Demand:	5400 VA
				Total Conn.:	15 A
				Total Est. Demand:	15 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: 1BP

Location: ELEC 630 | **Volts:** 120/208 Wye | **A.I.C. Rating:** EXISING AIC
Supply From: T-BP | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1 | **MCB Rating:** 150 A

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	EXISTING CIRCUIT	20 A	1	0 0			1	20 A	COMP QUAD	2
3	EXISTING CIRCUIT	20 A	1		0 0		1	20 A	COMP QUAD	4
5	EXISTING CIRCUIT	20 A	1			0 0	1	20 A	EXISTING CIRCUIT	6
7	A107	20 A	1	0 0			1	20 A	A105-A107	8
9	TV A107/A102	20 A	1		0 0		1	20 A	B MEZZ	10
11	EF-1-MEZZ B	20 A	1			1200 680	1	20 A	CUH-1/CUH-4/CUH-5	12
13	EF-2- MEZZ B	20 A	1	1200 0			1	20 A	A106	14
15	TCC PANEL	20 A	1		0 0		1	20 A	B151	16
17	B151/149	20 A	1			0 0	1	20 A	TV A105-B151	18
19	B150	20 A	1	0 0			1	20 A	A102	20
21	A102-A104	20 A	1		0 0		1	20 A	A102-A104	22
23	A104-B102	20 A	1			0 0	1	20 A	B102-B104	24
25	B103-B104	20 A	1	0 0			1	20 A	TV A104-B102	26
27	B102-B104	20 A	1		0 0		1	20 A	B105-B106	28
29	TV B106-108	20 A	1			0 0	1	20 A	TV B105	30
31	B107-B108	20 A	1	0 0			1	20 A	B107-B108	32
33	B106-B107	20 A	1		0 0		1	20 A	B110-OUTSIDE	34
35	B110-OUTSIDE	20 A	1			0 0	1	20 A	TV B110	36
37	B113-B117	20 A	1	0 0			1	20 A	B110-OUTSIDE	38
39	EXISTING CIRCUIT	20 A	1		0 0		1	20 A	EXISTING CIRCUIT	40
41	EXISTING CIRCUIT	20 A	1			0 0	1	20 A	EXISTING CIRCUIT	42
		Total Load:		2380 VA	1780 VA	2380 VA				
		Total Amps:		21 A	15 A	21 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	680 VA	100.00%	680 VA		
LIGHTING	180 VA	125.00%	225 VA	**Total Conn. Load:**	6540 VA
Motor	3100 VA	109.68%	3400 VA	**Total Est. Demand:**	6885 VA
Other	1500 VA	100.00%	1500 VA	**Total Conn.:**	18 A
RECEPT	1080 VA	100.00%	1080 VA	**Total Est. Demand:**	19 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

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REVISIONS

1	7/30/24	Addendum #1

07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd. Fishers, IN 46037
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
MHS

DRAWING NAME
ELECTRICAL SCHEDULES

DRAWING NO.
E6-3

Branch Panel: 2DP

Location: ELEC 523 | **Volts:** 120/208 Wye | **A.I.C. Rating:** EXISTING AIC
Supply From: 1DP | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	LV XFMR - 528A, 013	20 A	1	1000	900		1	20 A	ROBOTICS/MAKERS SPACE 204A...	2
3	SPARE	20 A	1	0	0		1	20 A	SPARE	4
5	SPARE	20 A	1	0	0		1	20 A	SPARE	6
7	D135	20 A	1	0	0		1	20 A	D110/D115/D116	8
9	D MEZZ	20 A	1	0	0		1	20 A	D110/D106/OUTSIDE	10
11	TV D110/D118	20 A	1	0	0		1	20 A	D110	12
13	TV D124	20 A	1	0	0		1	20 A	D113-D117/D121	14
15	SPARE	20 A	1	0	0		1	20 A	TV D126/D136	16
17	D118/OUTSIDE	20 A	1	0	180		1	20 A	RECEPT - EWC	18
19	D118/D119	20 A	1	0	180		1	20 A	RECEPT - EWC	20
21	D119/D120	20 A	1	0	0		1	20 A	SPARE	22
23	SPARE	20 A	1	0	0		1	20 A	SPARE	24
25	SPARE	20 A	1	0	0		1	20 A	SPARE	26
27	D129/D131	20 A	1	0	0		1	20 A	TV-D131	28
29	D120/D124	20 A	1	0	0		1	20 A	D103/D134	30
31	D136	20 A	1	0	0		1	20 A	D137	32
33	D137/D140 OUTSIDE	20 A	1	0	0		1	20 A	D138-D146	34
35	SPARE	20 A	1	0	180		1	20 A	RECEPT - EWC	36
37	D134/D126	20 A	1	0	180		1	20 A	RECEPT - EWC	38
39	D126/D124	20 A	1	0	0		1	20 A	SPARE	40
41	SPARE	20 A	1	0	0		1	20 A	SPARE	42
		Total Load:		3340 VA	1080 VA	1940 VA				
		Total Amps:		29 A	9 A	17 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	500 VA	100.00%	500 VA		
Other	1000 VA	100.00%	1000 VA	**Total Conn. Load:**	6360 VA
RECEPT	4860 VA	100.00%	4860 VA	**Total Est. Demand:**	6360 VA
				Total Conn.:	18 A
				Total Est. Demand:	18 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: 3CP

Location: ELEC 014 | **Volts:** 120/208 Wye | **A.I.C. Rating:** EXISTING AIC
Supply From: 2CP | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	RECEPT-OFFICE 118,119	20 A	1	1800	0		1	20 A	IDF OFFICE	2
3	TCC PANEL "C"	20 A	1	0	0		1	20 A	IDF OFFICE	4
5	RECEPT-STUDY 204D,204E	20 A	1	1260	360		1	20 A	RECEPT-STORAGE	6
7	SITE SIGN	20 A	1	500	0		1	20 A	C119-124 FLOOR	8
9	RECEPT-133A,133B,134	20 A	1	1260	900		1	20 A	RECEPT-RM 119,120	10
11	C111	20 A	1	0	0		1	20 A	F106	12
13				0			1	20 A	PAINT BOOTH C121	14
15	DSO-4 -AREA F	20 A	2	1040	360		1	20 A	RECEPT - CONCESSIONS	16
17				1040	360		1	20 A	RECEPT - CONCESSIONS	18
19	RECEPT - TEMP POWER MEDIA CENTER	20 A	1	0			1	20 A	C105-107	20
21	VF-3 - KILN 205C	20 A	1	864	0		1	20 A	EXISTING CIRCUIT	22
23	RECEPT-WORK RM COPIER	20 A	1			180 900	1	20 A	RECEPT-NURSE 107	24
25				0	0					26
27	KILN C20	60 A	3		0 0		3	60 A	FUTURE KILN	28
29						0 0				30
		Total Load:		4460 VA	4424 VA	4100 VA				
		Total Amps:		38 A	37 A	34 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2080 VA	100.00%	2080 VA		
LIGHTING	500 VA	125.00%	625 VA	**Total Conn. Load:**	12984 VA
Motor	864 VA	125.00%	1080 VA	**Total Est. Demand:**	13325 VA
RECEPT	9540 VA	100.00%	9540 VA	**Total Conn.:**	36 A
				Total Est. Demand:	37 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: 2CP

Location: ELEC 014 | **Volts:** 120/208 Wye | **A.I.C. Rating:** EXISTING AIC
Supply From: 1CP | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	MEDIA CENTER COPIER	20 A	1	0			1			2
3	DSO-1/DSI-1	20 A	2		1040	720	1	20 A	RECEPT-ORCHESTRA/LGI 212	4
5						1040 720	1	20 A	RECEPT-TRIAGE	6
7	SPARE	20 A	1	0	0		1	20 A	OH GATE C103	8
9	OH GATE C118	20 A	1		0	0	1	20 A	OH GATE C128	10
11	D125-124	20 A	1			0 0	1	20 A	CAN LTS,C155	12
13	D125-123	20 A	1	0	0		1	20 A	C123	14
15	C122	20 A	1		0	0	1	20 A	C127	16
17	C119-122	20 A	1			0 0	1	20 A	TV C119-122	18
19	RECEPT-MEDIA CENTER PRINTER	20 A	1	180	1500		1	20 A	RECEPT-REFRIGERATOR	20
21	SPARE	20 A	1		0	0	1	20 A	C163	22
23	C124-125	20 A	1			0 0	1	20 A	SPARE	24
25	C119-122	20 A	1	0	0		1	20 A	PAINT BOOTH	26
27	TV C11-113	20 A	1		0	1500	1	20 A	RECEPT-TEACHER DINING MICROWAVE	28
29	RECEPT-RM 127,128,129	20 A	1			1800 1620	1	20 A	RECEPT-MUSIC	30
31	C111	20 A	1	0	0		1	20 A	TV C109-110	32
33	RECEPT-FLEX CLASS	20 A	1		1260	2160	1	20 A	RECEPT-RM 132,127B,127A	34
35	RECEPT-KEYBOARD LAB	20 A	1			1440 0	1	20 A	C111	36
37	RECEPT-IA/ENL	20 A	1	1800	0		1	20 A	C118 DISPLAY	38
39	RECEPT-READING RM/MEDIA COMP	20 A	1		1980	0	1	20 A	C113 DESK	40
41	RECEPT-TECH OFFICE/MEDIA CENTER	20 A	1			1620 1620	1	20 A	RECEPT-STUDY/GAMING	42
		Total Load:		7940 VA	13084 VA	13960 VA				
		Total Amps:		66 A	116 A	123 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	4160 VA	100.00%	4160 VA		
LIGHTING	500 VA	125.00%	625 VA	**Total Conn. Load:**	34984 VA
Motor	864 VA	125.00%	1080 VA	**Total Est. Demand:**	25595 VA
RECEPT	29460 VA	66.97%	19730 VA	**Total Conn.:**	97 A
				Total Est. Demand:	71 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: 3BP

Location: ELEC 630 | **Volts:** 120/208 Wye | **A.I.C. Rating:** EXISTING AIC
Supply From: 2BP | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0		1	30 A	TECHNOLOGY SERVER	2
3	SPARE	20 A	1		0	0	1	20 A	EXISTING CIRCUIT	4
5	CUH-3/CUH-2	20 A	1			500 0	1	30 A	MLU-UPS	6
7	B110	20 A	1	0	0		1	30 A	203 TECH UPS	8
9	SPARE	20 A	1		0	0	1	30 A	631- DATA/UPS	10
11	B129 CEILING	20 A	1			0 0	1	20 A	B110	12
13	EXISTING CIRCUIT	20 A	1	0	0		1	20 A	CUH1 B133-B144	14
15	EXISTING CIRCUIT	20 A	1		0	0	1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	EXISTING CIRCUIT	18
19	SPARE	20 A	1	0	0		1	20 A	SPARE	20
21	SPARE	20 A	1		0	0	1	20 A	SPARE	22
23	SPACE	--	1			-- --	1	--	SPACE	24
		Total Load:		0 VA	0 VA	500 VA				
		Total Amps:		0 A	0 A	4 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	250 VA	100.00%	250 VA		
Other	250 VA	100.00%	250 VA	**Total Conn. Load:**	500 VA
				Total Est. Demand:	500 VA
				Total Conn.:	1 A
				Total Est. Demand:	1 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: 2DC

Location: ELEC 523 | **Volts:** 120/208 Wye | **A.I.C. Rating:** EXISTING
Supply From: 1DC | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	EXISTING CIRCUIT	20 A	1	0	0		1	20 A	EXISTING CIRCUIT	2
3	EXISTING CIRCUIT	20 A	1		0	0	1	20 A	SPARE	4
5	EXISTING CIRCUIT	20 A	1			0 0	1	20 A	EXISTING CIRCUIT	6
7	RECEPT - WORK ROOM	20 A	1	720	1980		1	20 A	RECEPT - COLLABORATION RM	8
9	RECEPT - WORK RM COPIER	20 A	1		360	1800	1	20 A	RECEPT - COLLAB CORRIDOR	10
11	DATA 532 IDF RECEPTACLE	20 A	1			180 180	1	20 A	RECEPT - COLLAB COPIER	12
13	DATA 532 IDF RECEPTACLE	20 A	1	180	0		1	20 A	SPARE	14
15	EXISTING CIRCUIT	20 A	1		0	0	1	20 A	COMPUTER	16
17	SPARE	20 A	1			0 0	1	20 A	PODS	18
19	SPARE	20 A	1	0	0		1	20 A	OUTLET	20
21	SPARE	20 A	1		0	0	1	20 A	POWER	22
23	SPARE	20 A	1			0 0	1	20 A	EXISTING CIRCUIT	24
		Total Load:		2880 VA	2160 VA	360 VA				
		Total Amps:		26 A	20 A	3 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	5400 VA	100.00%	5400 VA		
				Total Conn. Load:	5400 VA
				Total Est. Demand:	5400 VA
				Total Conn.:	15 A
				Total Est. Demand:	15 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: 2BP

Location: ELEC 630 | **Volts:** 120/208 Wye | **A.I.C. Rating:** EXISTING AIC
Supply From: 1BP | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: NEMA 1

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	LV XFMR - 628A, 623A	20 A	1	1000	180		1	20 A	AHU-1 - LIGHTS	2
3	HCP- MEZZ B	20 A	1		700	1080	1	20 A	AUTO SINKS RR	4
5	SPARE	20 A	1			0 0	1	20 A	SPARE	6
7	B146	20 A	1	0	0		1	20 A	B119	8
9	B145	20 A	1		0	0	1	20 A	B145-B147	10
11	B149	20 A	1			0 0	1	20 A	B147-B146	12
13	B145-B146	20 A	1	0	0		1	20 A	B118-B120	14
15	B120	20 A	1		0	0	1	20 A	B118-B120	16
17	B124-B125	20 A	1			0 0	1	20 A	B124	18
19	TV B134-B136	20 A	1	0	0		1	20 A	TV B118-B120	20
21	TV B145-B147	20 A	1		0	0	1	20 A	TV B124-B126	22
23	SPARE	20 A	1			0 0	1	20 A	B125	24
25	B126	20 A	1	0	0		1	20 A	B126	26
27	B127-B126	20 A	1		0	0	1	20 A	B137-OUTSIDE	28
29	B137	20 A	1			0 0	1	20 A	B139-B144	30
31	SPARE	20 A	1	0	0		1	20 A	SPARE	32
33	B134-B131	20 A	1		0	0	1	20 A	B134	34
35	B134-B136	20 A	1			0 0	1	20 A	B135-B136	36
37	SPARE	20 A	1	0	0		1	20 A	B129 WIREMOLD	38
39	SPARE	20 A	1		0	0	1	20 A	LIGHTS MEZZ	40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
		Total Load:		1180 VA	1780 VA	500 VA				
		Total Amps:		11 A	16 A	4 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	250 VA	100.00%	250 VA		
LIGHTING	180 VA	125.00%	225 VA	**Total Conn. Load:**	3460 VA
Motor	700 VA	125.00%	875 VA	**Total Est. Demand:**	3680 VA
Other	1250 VA	100.00%	1250 VA	**Total Conn.:**	10 A
RECEPT	1080 VA	100.00%	1080 VA	**Total Est. Demand:**	10 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

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1	7/29/24	Addendum #1

07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd. Fishers, IN 46037
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
MHS

DRAWING NAME
ELECTRICAL SCHEDULES

DRAWING NO.
E6-4

Branch Panel: FP

Location: ELECTRICAL/ FIRE ALARM... **Supply From:** **Mounting:** SURFACE **Enclosure:** NEMA 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: EXISTING AIC **Mains Type:** MCB **Mains Rating:** 125 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	NEW BOILER	20 A	1	0	0					1	30 A	DRYER RM	2
3	EXISTING CIRCUIT	20 A	1			0	0			1	30 A	OUTLET 307	4
5	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	6
7	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	WATER TREATMENT PANEL	8
9	MECHANICAL CONVENIENCE	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	10
11	ELEC ROOM CONVENIENCE	20 A	1					0	0	1	20 A	CONVENIENCE F-108	12
13	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	CONVENIENCE F-114	14
15	SPARE	20 A	1			0	0			1	20 A	CONVENIENCE	16
17	T.C.C N.W MEZZ	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	18
19	EF-6 ROOF	20 A	1	1200	0					1	20 A	CONVENIENCE F-109	20
21	WS-1B - MECHANICAL RM	20 A	1			1680	0			1	20 A	EXISTING CIRCUIT	22
23	WS-1A - MECHANICAL RM	20 A	1					1680	0	1	20 A	SPARE	24
25	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	26
27	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	SPARE	28
29	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	30
		Total Load:		1200 VA		1680 VA		1680 VA					
		Total Amps:		10 A		15 A		15 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3000 VA	100.00%	3000 VA		
Motor	1200 VA	125.00%	1500 VA	**Total Conn. Load:**	4560 VA
Other	360 VA	100.00%	360 VA	**Total Est. Demand:**	4860 VA
				Total Conn.:	13 A
				Total Est. Demand:	13 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: BL

Location: ELEC 630 **Supply From:** **Mounting:** SURFACE **Enclosure:** NEMA 1
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: EXISTING AIC **Mains Type:** MLO **Mains Rating:** 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LIGHTING - COLLABORATION 631, 532	20 A	1	1775	0					1	20 A	SPARE	2
3	LIGHTING	20 A	1			1325	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	101A	20 A	1	0	0					1	20 A	B151-150-149	8
9	105-106-107A	20 A	1			0	0			1	20 A	B102-103-104	10
11	A102-103-104	20 A	1					0	0	1	20 A	A101	12
13	108-106-107	20 A	1	0	0					1	20 A	148-144-140-141-139-B124	14
15	145-146-147	20 A	1			0	0			1	20 A	116-115-110	16
17	B109-B114-113-112	20 A	1					0	0	1	20 A	B137	18
19	118-119-120	20 A	1	0	0					1	20 A	128-123	20
21	136-135-134	20 A	1			0	0			1	20 A	122-117	22
23	129	20 A	1					0	0	1	20 A	126-127-124	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	0								32
33	SPACE	--	1			--	0			3	100 A	EXISTING CIRCUIT	34
35	SPACE	--	1					--	0				36
37				0	0								38
39	45KVA TRANSFORMER	70 A	3			0	0			3	20 A	SPARE	40
41								0	0				42
		Total Load:		1775 VA		1325 VA		0 VA					
		Total Amps:		7 A		6 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	3028 VA	125.00%	3785 VA		
Power	72 VA	100.00%	72 VA	**Total Conn. Load:**	3100 VA
				Total Est. Demand:	3857 VA
				Total Conn.:	4 A
				Total Est. Demand:	5 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: CC

Location: ELEC 014 **Supply From:** T-CC **Mounting:** SURFACE **Enclosure:** NEMA 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: EXISTING AIC **Mains Type:** MCB **Mains Rating:** 225 A **MCB Rating:** 125 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RM A209	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	2
3	RECEPT-MAIN OFFICE	20 A	1			1620	180			1	20 A	MDF 203 RECEPTACLE	4
5	RECEPT-CONFERENCE	20 A	1					1620	180	1	20 A	MDF 203 RECEPTACLE	6
7	CASH REG F127	20 A	1	0	0					1	20 A	C158	8
9	CASH REG F127	20 A	1			0	1800			1	20 A	RECEPT-MEDIA CENTER	10
11	TG	20 A	1					0	0	1	20 A	C162-154	12
13	DATA 108 IDF RECEPTACLE	20 A	1	180	0					1	20 A	C113 COLM	14
15	DATA 108 IDF RECEPTACLE	20 A	1			180	0			1	20 A	C113 COMPUTERS	16
17	F113 WIREMOLD	20 A	1					0	180	1	20 A	MDF 203 RECEPTACLE	18
19	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	C110	20
21	C107-105	20 A	1			0	0			1	20 A	C110	22
23	C111	20 A	1					0	0	1	20 A	C111	24
25	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	C111	26
27	TELE RACK C116	20 A	1			0	0			1	20 A	C148-C157	28
29	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	C150	30
31	EXISTING CIRCUIT	20 A	1	0	180					1	20 A	MDF 203 RECEPTACLE	32
33	RECEPT-MAIN OFFICE	20 A	1			1440	1620			1	20 A	RECEPT-RM 101,102,103	34
35	RECEPT-114,105	20 A	1					1620	1620	1	20 A	RECEPT-THERAPIST	36
37	RECEPT- RM 115,116	20 A	1	1800	0								38
39	RECEPT-REGISTRAR COPIER	20 A	1			180	0			3	50 A	EXISTING CIRCUIT	40
41	SPARE	20 A	1					0	0				42
		Total Load:		2160 VA		7020 VA		5220 VA					
		Total Amps:		18 A		62 A		47 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	14400 VA	84.72%	12200 VA		
				Total Conn. Load:	14400 VA
				Total Est. Demand:	12200 VA
				Total Conn.:	40 A
				Total Est. Demand:	34 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: DL

Location: ELEC 523 **Supply From:** **Mounting:** SURACE **Enclosure:** NEMA 1
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: EXISTING AIC **Mains Type:** MLO **Mains Rating:** 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	EMERGENCY LIGHTS	20 A	1	0	0					1	20 A	D154/D152	8
9	E105/E107	20 A	1			0	0			1	20 A	D102/D104	10
11	E102/E104	20 A	1					0	0	1	20 A	E101/D101	12
13	D107,D109	20 A	1	0	0					1	20 A	D151/D147/D141	14
15	D148/D150	20 A	1			0	0			1	20 A	D110/D115/D116	16
17	D105,D106,D111	20 A	1					0	0	1	20 A	D137/D146/D145	18
19	D118,D120	20 A	1	0	0					1	20 A	D128/D133	20
21	D136/D134	20 A	1			0	0			1	20 A	D117/D122	22
23	D129/D MEZZ	20 A	1					0	0	1	20 A	D124/D126	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1	--	--					1	--	SPACE	30
31				0	--					1	--	SPACE	32
33	SPARE	20 A	3			0	--			1	--	SPACE	34
35								0	--	1	--	SPACE	36
37				0	0								38
39	EXISTING CIRCUIT	70 A	3			0	0			3	70 A	EXISTING CIRCUIT	40
41								0	0				42
		Total Load:		0 VA		0 VA		0 VA					
		Total Amps:		0 A		0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: CL

Location: ELEC 014 **Supply From:** **Mounting:** SURFACE **Enclosure:** NEMA 1
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: EXISTING AIC **Mains Type:** MLO **Mains Rating:** 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LIGHTING - FLEX CLASS	20 A	1	2718	1681					1	20 A	LIGHTING - ADMIN	2
3	SPARE	20 A	1			0	2571			1	20 A	LIGHTING - ADMIN	4
5	LIGHTING	20 A	1					265	0	1	20 A	SPARE	6
7	EMERGENCY LIGHTING	20 A	1	0	0					1	20 A	SPARE	8
9	EMERGENCY LIGHTING	20 A	1			0	0			1	20 A	SPARE	10
11	C124	20 A	1					0	0	1	20 A	C120-122-123-125-126-121-112	12
13	C119	20 A	1	0	0					1	20 A	C128	14
15	C127-C118	20 A	1			0	0			1	20 A	C117-116-110-115	16
17	C129-C133	20 A	1					0	0	1	20 A	C109-C103	18
19	C108-C107-C105-C101	20 A	1	0	0					1	20 A	C113-C114-MEDIA WALLS	20
21	C102	20 A	1			0	0			1	20 A	C112-113-114 MEDIA CNTR	22
23	C113-C114	20 A	1					0	0	1	20 A	C150-151-152-153-154	24
25	C160-161-163-164-162	20 A	1	0	0					1	20 A	SPARE	26
27	C159-158-C128	20 A	1			0	0			1	20 A	SPARE	28
29	C137-139-140-141-142	20 A	1					0	0	1	20 A	SPARE	30
31				0	0								32
33	30 KVA XFMR	50 A	3			0	0			3	70 A	45KVA XFMR	34
35								0	0				36
37	SPARE	20 A	1	0	--					1	--	SPACE	38
39	SPARE	20 A	1			0	--			1	--	SPACE	40
41	SPARE	20 A	1					0	0	1	30 A	BB HEATERS	42
		Total Load:		4399 VA		2571 VA		265 VA					
		Total Amps:		17 A		11 A		1 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	1640 VA	125.00%	2050 VA		
Other	307 VA	100.00%	307 VA	**Total Conn. Load:**	7235 VA
Power	5288 VA	100.00%	5288 VA	**Total Est. Demand:**	7645 VA
				Total Conn.:	9 A
				Total Est. Demand:	9 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: 3DP

Location: ELEC 523 **Supply From:** 2DP **Mounting:** SURFACE **Enclosure:** NEMA 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: EXISTING AIC **Mains Type:** MCB **Mains Rating:** 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	STUDY/GAMING 204F RECEPTACLE	20 A	1	1080	0					1	20 A	531-DATA UPS	2
3	AUTO SINK FAC RR & RR	20 A	1			1080	0			1	20 A	531-DATA UPS	4
5	AUTO SINK FAC RR & RR	20 A	1					1080	0	1	20 A	531-DATA UPS	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	D137 COOKTOP	20 A	1					0	0	1	20 A	D110	12
13	D137/D140	20 A	1	0	0					1	20 A	D110	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	CUH-7/CUH-6	20 A	1					500	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
		Total Load:		1080 VA		1080 VA		1580 VA					
		Total Amps:		9 A		9 A		13 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	500 VA	100.00%	500 VA		
RECEPT	3240 VA	100.00%	3240 VA	**Total Conn. Load:**	3740 VA
				Total Est. Demand:	3740 VA
				Total Conn.:	10 A
				Total Est. Demand:	10 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

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07.12.2024
krM JOB NO.
23055
DRAWN BY
MHS

DRAWING NAME
ELECTRICAL SCHEDULES

DRAWING NO.
E6-5

Branch Panel: OL

Location: ELEC 014
Supply From:
Mounting: SURACE
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: EXISTING AIC
Mains Type: MLO
Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				567	0					1	20 A	TIMECLOCK EXTERIOR LIGHTING	2
3	EF-5	20 A	3			567	--			1	--	SPACE	4
5								567	--	1	--	SPACE	6
7	NIGHT LIGHTS	20 A	1	0	0					1	20 A	SPARE	8
9	SIGN	20 A	1			0	0			1	20 A	SPARE	10
11	SIGN	20 A	1					0	0	1	20 A	SPARE	12
13	BOLLARDS	20 A	1	0	0					1	20 A	SPARE	14
15	EXT LIGHTS	20 A	1			0	0			1	20 A	SPARE	16
17	EXT LIGHTS	20 A	1					0	0	1	20 A	SPARE	18
19	SPACE	--	1	--	0					1	20 A	SPARE	20
21	SPACE	--	1			--	0			1	20 A	SPARE	22
23	SPACE	--	1					--	0	1	20 A	SPARE	24
		Total Load:		567 VA		567 VA		567 VA					
		Total Amps:		2 A		2 A		2 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	0 VA	0.00%	0 VA		
Motor	1700 VA	125.00%	2125 VA	**Total Conn. Load:**	1700 VA
INTEGRAL HP MOTOR	0 VA	0.00%	0 VA	**Total Est. Demand:**	2125 VA
				Total Conn.:	2 A
				Total Est. Demand:	3 A

Notes:
EXISTING GE A - SERIES PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: KLE

Location: SERVERY 322
Supply From:
Mounting: SURFACE
Enclosure: NEMA 3R

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: EXISTING AIC
Mains Type: MCB
Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	COOLER/FREEZER LIGHTS	20 A	1					0	0	1	20 A	SPARE	6
7	COOLER FAN	20 A	1	0	0					1	20 A	SPARE	8
9	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	10
11	EXISTING CIRCUIT	20 A	1					0	0				12
13				0	0					3	20 A	COOLER COMP	14
15	FREEZER COMP	30 A	3			0	0						16
17								0	0	2	20 A	ICEMAKER	18
19	MICROWAVE	30 A	2	0	0								20
21						0	0			2	30 A	MICROWAVE	22
23	MICROWAVE	30 A	2					0	0				24
25				0	0					2	30 A	MICROWAVE	26
27	SPARE	20 A	1			0	0						28
29	SPARE	20 A	1					0	720	3	20 A	DISPOSER	30
31	SPARE	20 A	1	0	720								32
33	SPARE	20 A	1			0	720						34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37				3206	--					1	--	SPACE	38
39	THREE COMPARTMENT SINK	20 A	3			3206	--			1	--	SPACE	40
41								3206	--	1	--	SPACE	42
		Total Load:		3927 VA		3927 VA		3927 VA					
		Total Amps:		33 A		33 A		33 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen	11780 VA	100.00%	11780 VA		
				Total Conn. Load:	11780 VA
				Total Est. Demand:	11780 VA
				Total Conn.:	33 A
				Total Est. Demand:	33 A

Notes:
EXISTING PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: T1LE

Location: MDF 203
Supply From: UPS
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	MDF 203 DATA RACK RECEPTACLE	20 A	1	360	360					1	20 A	DATA 532 IDF DATA RACK RECEPTACLE	2
3	MDF 203 DATA RACK RECEPTACLE	20 A	1			360	360			1	20 A	DATA 532 IDF DATA RACK RECEPTACLE	4
5	MDF 203 DATA RACK RECEPTACLE	20 A	1					360	360	1	20 A	IDF 400E DATA RACK RECEPTACLE	6
7	MDF 203 DATA RACK RECEPTACLE	20 A	1	360	360					1	20 A	ORCHESTRA/LGI 212 SOUND SYSTEM...	8
9	DATA 108 IDF DATA RACK RECEPTACLE	20 A	1			180	360			1	20 A	MUSIC 602 SOUND SYSTEM RECEPTACLE	10
11	DATA 108 IDF DATA RACK RECEPTACLE	20 A	1					180	360	1	20 A	MUSIC 601 SOUND SYSTEM RECEPTACLE	12
13	DATA 108 IDF DATA RACK RECEPTACLE	20 A	1	180	0					1	20 A	SPARE	14
15	DATA 108 IDF DATA RACK RECEPTACLE	20 A	1			180	0			1	20 A	SPARE	16
17	DATA 626 IDF RECEPTACLE	20 A	1					180	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
		Total Load:		1620 VA		1440 VA		1440 VA					
		Total Amps:		14 A		12 A		12 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	4500 VA	100.00%	4500 VA		
				Total Conn. Load:	4500 VA
				Total Est. Demand:	4500 VA
				Total Conn.:	12 A
				Total Est. Demand:	12 A

Notes:

Branch Panel: LE

Location: ELECTRICAL/ FIRE ALARM...
Supply From:
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: EXISTING AIC
Mains Type: MCB
Mains Rating: 150 A
MCB Rating: 150 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	TEMP CONTROL CABINET	20 A	1	0	0					1	20 A	BOILER	2
3	DHW BOILERS	20 A	1			0	0			1	20 A	FIRE ALARM CONTROLLER	4
5	HWCP	20 A	1					0	0	1	20 A	VF-2 ELEC.ROOM	6
7	GENERAL REC. BOILER RM	20 A	1	0	0					1	20 A	RECEPTACLES CAFE	8
9	GENERAL REC. BOILER RM	20 A	1			0	0			1	20 A	EF-6 DISHWASHER	10
11	GENERAL REC. BOILER RM	20 A	1					0	0	1	20 A	EF-7 LAUNDRY	12
13	GENERAL REC. BOILER RM	20 A	1	0	0					1	20 A	SIEMENS PANEL	14
15	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	16
17	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	18
19	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
		Total Load:		0 VA		0 VA		0 VA					
		Total Amps:		0 A		0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:
EXISTING GE A - SERIES II PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

Branch Panel: KHE

Location: DRY STORAGE 309
Supply From:
Mounting: SURACE
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: EXISTING AIC
Mains Type: MLO
Mains Rating: 125 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				0	0								2
3	SINK HEATER	20 A	3			0	0			3	20 A	DISPOSER	4
5								0	0				6
7				0	0								8
9	POLE LIGHTS	30 A	3			0	0			3	20 A	EXISTING LOAD	10
11								0	0				12
13	SPACE	--	1	--	--					1	--	SPACE	14
15	SPACE	--	1			--	--			1	--	SPACE	16
17	SPACE	--	1					--	--	1	--	SPACE	18
19	SPACE	--	1	--	--					1	--	SPACE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
		Total Load:		0 VA		0 VA		0 VA					
		Total Amps:		0 A		0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:
EXISTING GE A - SERIES II PANELBOARD. PROVIDE NEW BREAKERS FOR NEW CIRCUITS AS REQUIRED.

krM Architecture+

REVISIONS

1	7/29/24	Addendum #1

07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd. Fishers, IN 46037
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER
07.12.2024

CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
MHS

DRAWING NAME
ELECTRICAL SCHEDULES

DRAWING NO.
E6-7

Branch Panel: M3H

Location: MEZZANINE 550 | **Supply From:** MDP | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 22kA | **Mains Type:** MLO | **Mains Rating:** 200 A | **MCB Rating:** 200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				5567	5567								2
3	AHU-2-SF-1	40 A	3			5567	5567			3	40 A	AHU-2-SF-2	4
5								5567	5567				6
7				5567	5567								8
9	AHU-1-SF-3	40 A	3			5567	5567			3	40 A	AHU-1-SF-4	10
11								5567	5567				12
13				2933	2933								14
15	AHU-1-RF-1	20 A	3			2933	2933			3	20 A	AHU-1-RF-2	16
17								2933	2933				18
19				2933	2933								20
21	AHU-1-RF-3	20 A	3			2933	2933			3	20 A	AHU-1-RF-4	22
23								2933	2933				24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
		Total Load:		34000 VA		34000 VA		34000 VA					
		Total Amps:		123 A		123 A		123 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	102000 VA	104.09%	106175 VA		
				Total Conn. Load:	102000 VA
				Total Est. Demand:	106175 VA
				Total Conn.:	123 A
				Total Est. Demand:	128 A

Notes:

Branch Panel: M1LE

Location: MECHANICAL 304 | **Supply From:** PDP | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 22kA | **Mains Type:** MCB | **Mains Rating:** 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	WH-1	20 A	1	1680	1680					1	20 A	WH-2	2
3	CP-1	20 A	1			1500	1500			1	20 A	CP-2	4
5	TCP	20 A	1					180	180	1	20 A	TCP	6
7	TCP	20 A	1	180	180					1	20 A	REFRIGERANT MONITOR CONTROLLER	8
9	VF-2	20 A	1			1200	1570			2	30 A	DSO-3/DSI-3	10
11	AHU-4-LIGHT	20 A	1					180	1570				12
13	AHU-5-LIGHT	20 A	1	180	180					1	20 A	AHU-3 LIGHT	14
15	AHU-8 LIGHT	20 A	1			180	500			1	20 A	PUH-3/PUH-4	16
17	BOILER/W.H. SHUTDOWN PANEL	20 A	1					500	180	1	20 A	FACP	18
19	FIRE SMOKE DAMPER AREA F	20 A	1	360	540					1	20 A	FIRE SMOKE DAMPER AREA F	20
21	FIRE SMOKE DAMPER AREA F	20 A	1			360	360			1	20 A	RECEPT - IDF 400E	22
23	PUH-2, PUH-1	20 A	1					500	1000	1	20 A	PUH-5, PUH-6, PUH-7, PUH-8	24
25	CUH-11, PUH-9	20 A	1	500	550					1	20 A	CUH-12, PUH-10	26
27	LV XFMR - 130A, 014, 301	20 A	1			1500	500			1	20 A	PUH-11, PUH-12	28
29	NAC PANEL STG 130A	20 A	1					180	180	1	20 A	FAA	30
31	ADA DOOR ACTUATOR	20 A	1	360	180					1	20 A	LV XFMR - 550	32
33	LV XFMR - 650	20 A	1			180	540			1	20 A	LV XFMR - 304, MEZZANINES	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
43	SPARE	20 A	1	0	0					1	20 A	SPARE	44
45	SPARE	20 A	1			0	0			1	20 A	SPARE	46
47	SPARE	20 A	1					0	0	1	20 A	SPARE	48
49	SPARE	20 A	1	0	0					1	20 A	SPARE	50
51	SPARE	20 A	1			0	0			1	20 A	SPARE	52
53	SPARE	20 A	1					0	0	1	20 A	SPARE	54
55	SPARE	20 A	1	0	0					1	20 A	SPARE	56
57	SPARE	20 A	1			0	0			1	20 A	SPARE	58
59	SPARE	20 A	1					0	0	1	20 A	SPARE	60
		Total Load:		6570 VA		9890 VA		4650 VA					
		Total Amps:		57 A		85 A		39 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	11300 VA	100.00%	11300 VA		
LIGHTING	540 VA	125.00%	675 VA	**Total Conn. Load:**	21110 VA
Motor	4320 VA	108.68%	4695 VA	**Total Est. Demand:**	21620 VA
Other	3730 VA	100.00%	3730 VA	**Total Conn.:**	59 A
RECEPT	720 VA	100.00%	720 VA	**Total Est. Demand:**	60 A
Miscellaneous Power	500 VA	100.00%	500 VA		
FRACTIONAL HP MOTOR	0 VA	0.00%	0 VA		

Notes:

Branch Panel: M1H

Location: MECHANICAL 304 | **Supply From:** MDP | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 22kA | **Mains Type:** MLO | **Mains Rating:** 600 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				7167	7167								2
3	HWP-1(MECHANICAL RM)	60 A	3			7167	7167			3	60 A	HWP-2(MECHANICAL RM)	4
5								7167	7167				6
7				7167	9000								8
9	HWP-3 (MECHANICAL RM)	60 A	3			7167	9000			3	70 A	CHWP-1(MECHANICAL RM)	10
11								7167	9000				12
13				9000	9000								14
15	CHWP-2(MECHANICAL RM)	70 A	3			9000	9000			3	70 A	CHWP-3 (MECHANICAL RM)	16
17								9000	9000				18
19				4060	7167								20
21	B-3 - MECHANICAL ROOM	20 A	3			4060	7167			3	60 A	CDWP-1 - MECHANICAL RM	22
23								4060	7167				24
25				7167	7167								26
27	CDWP-2 - MECHANICAL RM	60 A	3			7167	7167			3	60 A	CDWP-3 - MECHANICAL RM	28
29								7167	7167				30
31				4000	4000								32
33	B-2 - MECHANICAL RM	20 A	3			4000	4000			3	20 A	B-1 (MECHANICAL RM)	34
35								4000	4000				36
37				7167	7167								38
39	AHU-8-SF-1 (MECH RM)	60 A	3			7167	7167			3	60 A	AHU-8-SF-2(MECH)	40
41								7167	7167				42
43				9000	567								44
45	AHU-8-RF-1(MECH RM)	70 A	3			9000	567			3	20 A	EF-9 - MECHANICAL RM	46
47								9000	567				48
49	SPARE	20 A	1	0	0					1	20 A	SPARE	50
51	SPARE	20 A	1			0	0			1	20 A	SPARE	52
53	SPARE	20 A	1					0	0	1	20 A	SPARE	54
55	SPARE	20 A	1	0	0					1	20 A	SPARE	56
57	SPARE	20 A	1			0	0			1	20 A	SPARE	58
59	SPARE	20 A	1					0	0	1	20 A	SPARE	60
		Total Load:		105960 VA		105960 VA		105960 VA					
		Total Amps:		383 A		383 A		383 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	36000 VA	100.00%	36000 VA		
Motor	281700 VA	102.40%	288450 VA	**Total Conn. Load:**	317880 VA
Other	180 VA	100.00%	180 VA	**Total Est. Demand:**	324630 VA
FRACTIONAL HP MOTOR	0 VA	0.00%	0 VA	**Total Conn.:**	382 A
INTEGRAL HP MOTOR	0 VA	0.00%	0 VA	**Total Est. Demand:**	390 A

Notes:

Branch Panel: M2H

Location: MEZZANINE 650 | **Supply From:** MDP | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 22kA | **Mains Type:** MLO | **Mains Rating:** 200 A | **MCB Rating:** 200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				5567	5567								2
3	AHU-1-SF-1	40 A	3			5567	5567			3	40 A	AHU-1-SF-2	4
5								5567	5567				6
7				5567	5567								8
9	AHU-1-SF-3	40 A	3			5567	5567			3	40 A	AHU-1-SF-4	10
11								5567	5567				12
13				2933	2933								14
15	AHU-1-RF-1	20 A	3			2933	2933			3	20 A	AHU-1-RF-2	16
17								2933	2933				18
19				2933	2933								20
21	AHU-1-RF-3	20 A	3			2933	2933			3	20 A	AHU-1-RF-4	22
23								2933	2933				24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
		Total Load:		34000 VA		34000 VA		34000 VA					
		Total Amps:		123 A		123 A		123 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	102000 VA	104.09%	106175 VA		
				Total Conn. Load:	102000 VA
				Total Est. Demand:	106175 VA
				Total Conn.:	123 A
				Total Est. Demand:	128 A

Notes:

Branch Panel: M1HE

Location: MECHANICAL 304 | **Supply From:** HE | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 22kA | **Mains Type:** MLO | **Mains Rating:** 200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				800	5567								2
3	VF-1	20 A	3			800	5567			3	40 A	AHU-5-SF-2	4
5								800	5567				6
7				7167	5567								8
9	AHU-4	60 A	3			7167	5567			3	40 A	AHU-5-SF-1	10
11								7167	5567				12
13				5567	0					1	20 A	SPARE	14
15	AHU-3	40 A	3			5567	0			1	20 A	SPARE	16
17								5567	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
		Total Load:		24667 VA		24667 VA		24667 VA					
		Total Amps:		89 A		89 A		89 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	74000 VA	107.26%	79375 VA		
FRACTIONAL HP MOTOR	0 VA	0.00%	0 VA	**Total Conn. Load:**	74000 VA
				Total Est. Demand:	79375 VA
				Total Conn.:	89 A
				Total Est. Demand:	95 A

Notes:

Branch Panel: K2LE

Location: KITCHEN 315 | **Supply From:** PDP | **Mounting:** SURFACE | **Enclosure:** NEMA 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 22kA | **Mains Type:** MCB | **Mains Rating:** 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SINGLE DOOR PASS-THRU HEATED	20 A	2	750	456					1	20 A	SINGLE DOOR PASS-THRU HEATED...	2
3	CABINET					750	750			2	20 A	SINGLE DOOR PASS-THRU HEATED CABINET	4
5	SINGLE DOOR PASS-THRU HEATED...	20 A	1					456	750				6
7	CONVENIENCE RECEPTACLE	20 A	1	720	750					2	20 A	SINGLE DOOR PASS-THRU HEATED CABINET	8
9	SINGLE DOOR PASS-THRU HEATED...	20 A	1			456	750						10
11	SERVING COUNTER	20 A	1					180	1920	1	20 A	SELF-SERVE DOUBLE-SIDED BREATH...	12
13	DROP-IN COLD WELL	20 A	1	852	180					1	20 A	DOUBLE SIDED CASHIER COUNTER	14
15	POINT OF SALE SYSTEM	20 A	1			180	180			1	20 A	SERVING COUNTER	16
17	SERVING COUNTER	20 A	1					180	180	1	20 A	SERVING COUNTER	18
19	MILK COOLER	20 A	1	324	324					1	20 A	MILK COOLER	20
21	BREATH GUARD W/ LIGHTS & HEAT	20 A	1			1920	842			2	20 A	DROP-IN HOT WELL UNIT	22
23	DROP-IN HOT/COLD WELL UNIT	20 A	2					998	842				24
25				998	840					1	20 A	DROP-IN COLD WELL UNIT	26
27	BREATH GUARD W/ LIGHTS & HEAT	20 A	1			1920	1752			1	20 A	OPEN DISPLAY MERCHANDISER	28
29	INDUCTION RANG	20 A	2					1518	1518	2	20 A	INDUCTION RANG	30
31				1518	1518								32
33	SERVING COUNTER	20 A	1			180	180			1	20 A	SERVING COUNTER	34
35	OPEN DISPLAY MERCHANDISER	20 A	1					1752	840	1	20 A	DROP-IN COLD WELL UNIT	36
37	BREATH GUARD W/ LIGHTS & HEAT	20 A	1	1920	998					2	20 A	DROP-IN HOT/COLD WELL UNIT	38
39	DROP-IN HOT WELL UNIT	20 A	2			842	998						40
41								842	1920	1	20 A	BREATH GUARD W/ LIGHTS & HEAT	42
43	COOLER BLOWER COIL	20 A	1	200	200					1	20 A	WALK-IN COOLER	44
45	FREEZER BLOWER COIL	20 A	2			1487	1333			3	30 A	COOLER CONDENSING UNIT	46
47								1487	1333				48
49				2738	1333								50
51	FREEZER CONDESNGING UNIT	20 A	3			2738	936			1	20 A	CONDENSATE FAN	52
53								2738	320	1	20 A	AC-1	54
55	CAFETERIA TV RECEPACLE	20 A	1	1080	360					1	20 A	STG 316 RECEPTACLE	56
57	RECEPT	20 A	1			720	180			1	20 A	RECEPT - ROOF	58
59	SPARE	20 A	1					0	0	1	20 A	SPARE	60
61	SPARE	20 A	1	0	0					1	20 A	SPARE	62
63	SPARE	20 A	1			0	0			1	20 A	SPARE	64
65	SPARE	20 A	1					0	0	1	20 A	SPARE	66
67	SPARE	20 A	1	0	0					1	20 A	SPARE	68
69	SPARE	20 A	1			0	0			1	20 A	SPARE	70
71	SPARE	20 A	1					0	0	1	20 A	SPARE	72
		Total Load:		18059 VA		19094 VA		19775 VA					
		Total Amps:		150 A		160 A		166 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	320 VA	100.00%	320 VA		
RECEPT	30487 VA	66.40%	20244 VA	**Total Conn. Load:**	56928 VA
Kitchen	26121 VA	87.66%	22899 VA	**Total Est. Demand:**	43462 VA
				Total Conn.:	158 A
				Total Est. Demand:	121 A

Notes:

REVISIONS

1	7/29/24	Addendum #1

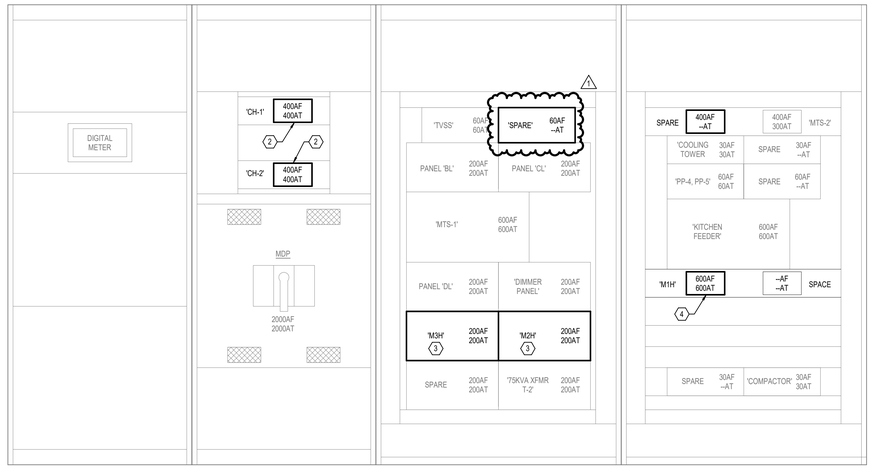
07.12.2024
HAMILTON SOUTHEASTERN SCHOOL CORPORATION
23055 - FALL CREEK INTERMEDIATE RENOVATIONS
12011 Olio Rd, Fishers, IN 46037
CONSTRUCTION DOCUMENTS

DAVID HERNANDEZ JR. REGISTERED No. 12200632 STATE OF INDIANA PROFESSIONAL ENGINEER 07.12.2024

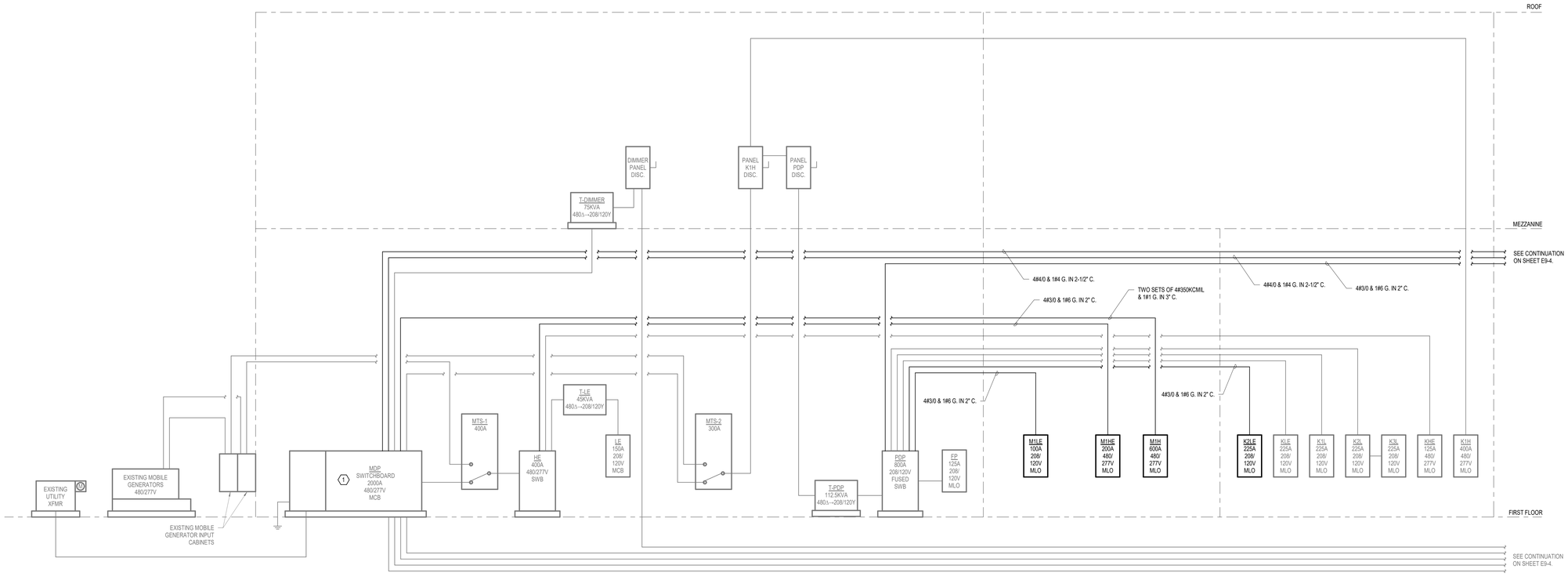
CONSTRUCTION DOCUMENTS
07.12.2024
krM JOB NO.
23055
DRAWN BY
MHS

DRAWING NAME
ELECTRICAL SCHEDULES

DRAWING NO.
E6-8



2 NEW ELECTRICAL RISER DIAGRAM - MDP
NOT TO SCALE



1 NEW ELECTRICAL RISER DIAGRAM
1/2" = 1'-0"

GENERAL NOTES

A REFER TO SHEET E-000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
B REFER TO E-600 SERIES SHEETS FOR PANEL SCHEDULES.
C ALL NOTED WIRE SIZES ARE COPPER CONDUCTORS UNLESS OTHERWISE NOTED.

SHEET KEYNOTES

1 SEE DETAIL 2 ON THIS SHEET FOR ELEVATION VIEW OF EXISTING SWITCHBOARD 'MDP'.
2 REPLACE EXISTING BREAKER WITH NEW IN SAME LOCATION AS INDICATED.
3 PROVIDE NEW FUSES IN EXISTING FUSED SWITCH AS INDICATED.
4 PROVIDE NEW BREAKER AS INDICATED.

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REVISIONS

1	7/29/24	Addendum #1

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07.12.2024
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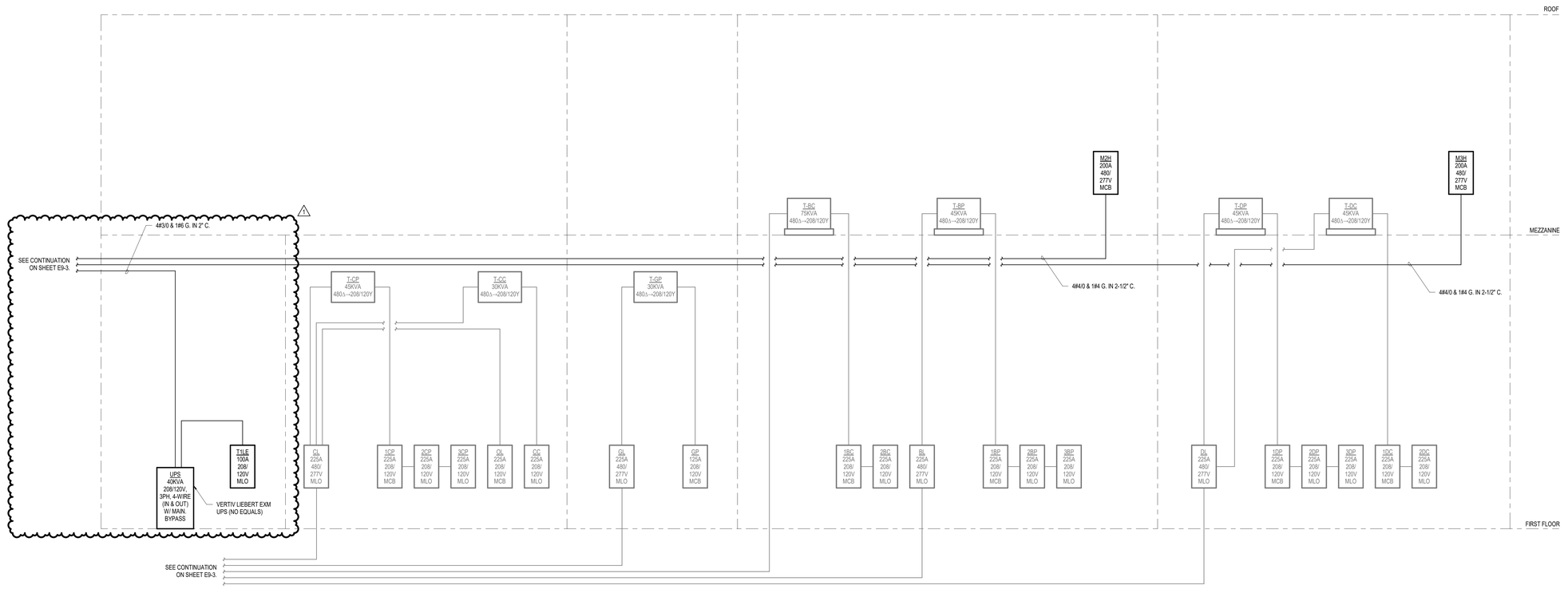
DRAWING NAME
ELECTRICAL RISER DIAGRAMS

DRAWING NO.
E9-3



1 NEW ELECTRICAL RISER DIAGRAM (CONT.)
1/2" = 1'-0"

GENERAL NOTES

A REFER TO SHEET E-000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
B REFER TO E-600 SERIES SHEETS FOR PANEL SCHEDULES.
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REVISIONS

1	7/30/24	Addendum #1

07.12.2024
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DRAWING NAME
ELECTRICAL RISER DIAGRAMS

DRAWING NO.
E9-4