



Tri-County Regional Vocational Technical School

SBC Meeting No. 23

April 20, 2023



DRA



dw
DORE + WHITTIER

SBC Meeting Agenda – April 20th, 2023

1. **Call to Order**
2. **Previous Topics & Approval of March 23rd, 2023, Meeting Minutes**
3. Invoices, Commitments, and Budget Update
 - Dore and Whittier March Invoice No. 017 in the amount of **\$15,000.00**
 - DRA March Invoice 014, in the amount of **\$51,000.00**
 - DRA March Professional Services Amendment No.003, Invoice, 004, in the amount of **\$1,980.00**
 - DRA March Professional Services Amendment No.004, Invoice 001, in the amount of **\$3,850.00**
4. CM Introduction
5. Design Update
6. Workplan Update
7. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting
8. Public Comment
9. Next Meetings
10. Adjourn



DRA

dw
DORE + WHITTIER

March 23rd, 2023, Meeting Minutes for approval:

“Motion to approve the March 23rd, 2023, Meeting Minutes by _____, 2nd by _____.”

SBC Vote:

- Brian Mushnick
- Karen Maguire
- Dan Haynes
- Michael Procaccini
- Jonathon Dowse
- Brendan Bowen
- Stanley Widak Jr.
- Harry Takesian
- Jane Hardin
- Bob Foley
- Lloyd “Gus” Brown

Item No.	Description	Action
22.1	Call to order: 4:12 PM meeting was called to order by SBC Chair B. Mushnick with 9 of 11 voting members in attendance.	Record
22.2	<p>Previous Topics & Approval of February 15th, of 2023, Meeting Minutes: A motion to approve the February 15th, 2023, meeting minutes as submitted was made by B. Foley and seconded by M. Procaccini.</p> <p>Discussion: None</p> <p>Roll Call Vote: B. Mushnick (Y), K. Maguire (Y), D. Haynes (Y), M. Procaccini (Y), J. Dowse (Y), H. Takesian (Y), B. Bowen (Y), B. Foley (Y), S. Widak Jr. (Y)</p> <p>Abstentions: None</p> <p>Motion passes, to approve February 15th, 2023, meeting minutes with changes.</p>	Record
22.3	<p>Invoices and Commitments for Approval: B. Mushnick calls for a motion to approve DWMP Invoice No. 016</p> <p>Invoice 1: DWMP February Invoice No. 016, in the amount of <u>\$15,000.00</u></p> <p>A motion was made by J. Dowse and seconded by H. Takesian for the approval of DWMP Invoice No. 016</p> <p>Discussion: None.</p> <p>Roll Call Vote : B. Mushnick (Y), K. Maguire (Y), D. Haynes (Y), M. Procaccini (Y), J. Dowse (Y), H. Takesian (Y), B. Bowen (Y), B. Foley (Y), S. Widak Jr. (Y)</p> <p>Abstentions: None</p> <p>Motion passes to approve DWMP Invoice No. 016 for payment.</p> <hr/> <p>B. Mushnick calls for a motion to approve DRA Invoice No. 013</p> <p>Invoice 2: DRA February Invoice No. 013, in the amount of <u>\$51,000.00</u></p> <p>A motion was made by J. Dowse and seconded by M. Procaccini for the approval of DRA Invoice No. 013</p> <p>Discussion: None.</p>	Record

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D & W March Invoice for approval:

“Motion to approve the D&W Invoice #016, for \$15,000.00

by _____, 2nd by _____.”

SBC Vote

- Brian Mushnick
- Karen Maguire
- Dan Haynes
- Michael Procaccini
- Jonathon Dowse
- Brendan Bowen
- Stanley Widak Jr.
- Harry Takesian
- Jane Hardin
- Bob Foley
- Lloyd “Gus” Brown

Dore and Whittier Management Partners, LLC
260 Merrimac Street
Bldg. 7
Newburyport, MA 01950

Tri-County Regional Technical School District
147 Pond Street
Franklin, MA 02038

Invoice number 00017
Date 03/28/2023

Project 21-0122 TRI-COUNTY REGIONAL
TECHNICAL HIGH SCHOOL

Description	Contract Amount	Prior Billed	Current Billed	Remaining	Total Billed
Pre Designer Selection	40,000.00	40,000.00	0.00	0.00	40,000.00
Feasibility Phase	130,000.00	130,000.00	0.00	0.00	130,000.00
Schematic Design	130,000.00	30,000.00	15,000.00	85,000.00	45,000.00
Total	300,000.00	200,000.00	15,000.00	85,000.00	215,000.00

Invoice total **15,000.00**

Aging Summary

Invoice Number	Invoice Date	Outstanding	Current	Over 30	Over 60	Over 90	Over 120
00015	01/30/2023	15,000.00		15,000.00			
00016	03/01/2023	15,000.00	15,000.00				
00017	03/28/2023	15,000.00	15,000.00				
Total		45,000.00	30,000.00	15,000.00	0.00	0.00	0.00

DRA March Invoice for approval:

“Motion to approve the DRA Invoice #014, for \$51,000.00 by _____, 2nd by _____.”

SBC Vote

- Brian Mushnick
- Karen Maguire
- Dan Haynes
- Michael Procaccini
- Jonathon Dowse
- Brendan Bowen
- Stanley Widak Jr.
- Harry Takesian
- Jane Hardin
- Bob Foley
- Lloyd “Gus” Brown



Invoice

Karen Maguire
Superintendent
Tri-County Regional Vocational Technical School Di
147 Pond Street
Franklin, MA 02038

March 31, 2023
Project No: 22001.00
Invoice No: 0000014

Project-Tri-County Regional Vocational Technical

Professional Services from March 01, 2023 to March 31, 2023

Fee

Billing Phase	Fee	Percent Complete	Earned
Feasibility Study	285,000.00	100.00	285,000.00
Schematic Design	340,000.00	30.00	102,000.00
Total Fee	625,000.00		387,000.00
		Previous Fee Billing	336,000.00
		Current Fee Billing	51,000.00
	Total Fee		51,000.00
		Total this Invoice	\$51,000.00

If you have any questions regarding this invoice, please contact Judy Gill at 617-964-1700 or e-mail gill@draws.com.

cc: telmore@doreandwhittier.com

DRA March Invoice for approval:

“Motion to approve the DRA Professional Services Invoice #004, for \$1,980.00 by _____, 2nd by _____.”

SBC Vote

- Brian Mushnick
- Karen Maguire
- Dan Haynes
- Michael Procaccini
- Jonathon Dowse
- Brendan Bowen
- Stanley Widak Jr.
- Harry Takesian
- Jane Hardin
- Bob Foley
- Lloyd “Gus” Brown

DRA

Drummey Rosane Anderson, Inc.
Planning | Architecture | Interior Design

Invoice

Karen Maguire
Superintendent
Tri-County Regional Vocational Technical School District
147 Pond Street
Franklin, MA 02038

March 31, 2023
Project No: 22001.03
Invoice No: 0000004

Project-Tri-County Regional Amendment 3-Limited Topographic Survey & Plan

Professional Services from March 01, 2023 to March 31, 2023

Consultants

Samiotes Consultants, Inc.			1,800.00	
Total Consultants		1.1 times	1,800.00	1,980.00

Billing Limits

	Current	Prior	To-Date	
Total Billings	1,980.00	33,660.00	35,640.00	
Limit			39,600.00	
Remaining			3,960.00	
		Total this Invoice		\$1,980.00

Outstanding Invoices

Number	Date	Balance
3	2/28/2023	7,920.00
Total		7,920.00

If you have any questions regarding this invoice, please contact Judy Gill at 617-964-1700 or e-mail gill@draws.com.

DRA March Invoice for approval:

“Motion to approve the DRA Professional Services Invoice #001, for \$3,850.00 by _____, 2nd by _____.”

SBC Vote

- Brian Mushnick
- Karen Maguire
- Dan Haynes
- Michael Procaccini
- Jonathon Dowse
- Brendan Bowen
- Stanley Widak Jr.
- Harry Takesian
- Jane Hardin
- Bob Foley
- Lloyd “Gus” Brown



Drummey Rosane Anderson, Inc.
Planning | Architecture | Interior Design

Invoice

Karen Maguire
Superintendent
Tri-County Regional Vocational Technical School Di
147 Pond Street
Franklin, MA 02038

March 31, 2023
Project No: 22001.04
Invoice No: 0000001

Project-Tri-County Regional Amendment 4
Preferred Schematic Report Phase Geotechnical Study

Professional Services from March 01, 2023 to March 31, 2023

Consultants

O'Reilly, Talbot & Okun Associates, Inc.

Total Consultants		1.1 times	3,500.00	3,850.00
Billing Limits	Current	Prior	To-Date	
Total Billings	3,850.00	0.00	3,850.00	
Limit			4,950.00	
Remaining			1,100.00	
		Total this Invoice		\$3,850.00

If you have any questions regarding this invoice, please contact Judy Gill at 617-964-1700 or e-mail gill@draws.com.

cc: telmore@doreandwhittier.com

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**TRI-COUNTY REGIONAL
VOCATIONAL TECHNICAL
HIGH SCHOOL**
SBC INTRODUCTION

April 20, 2023

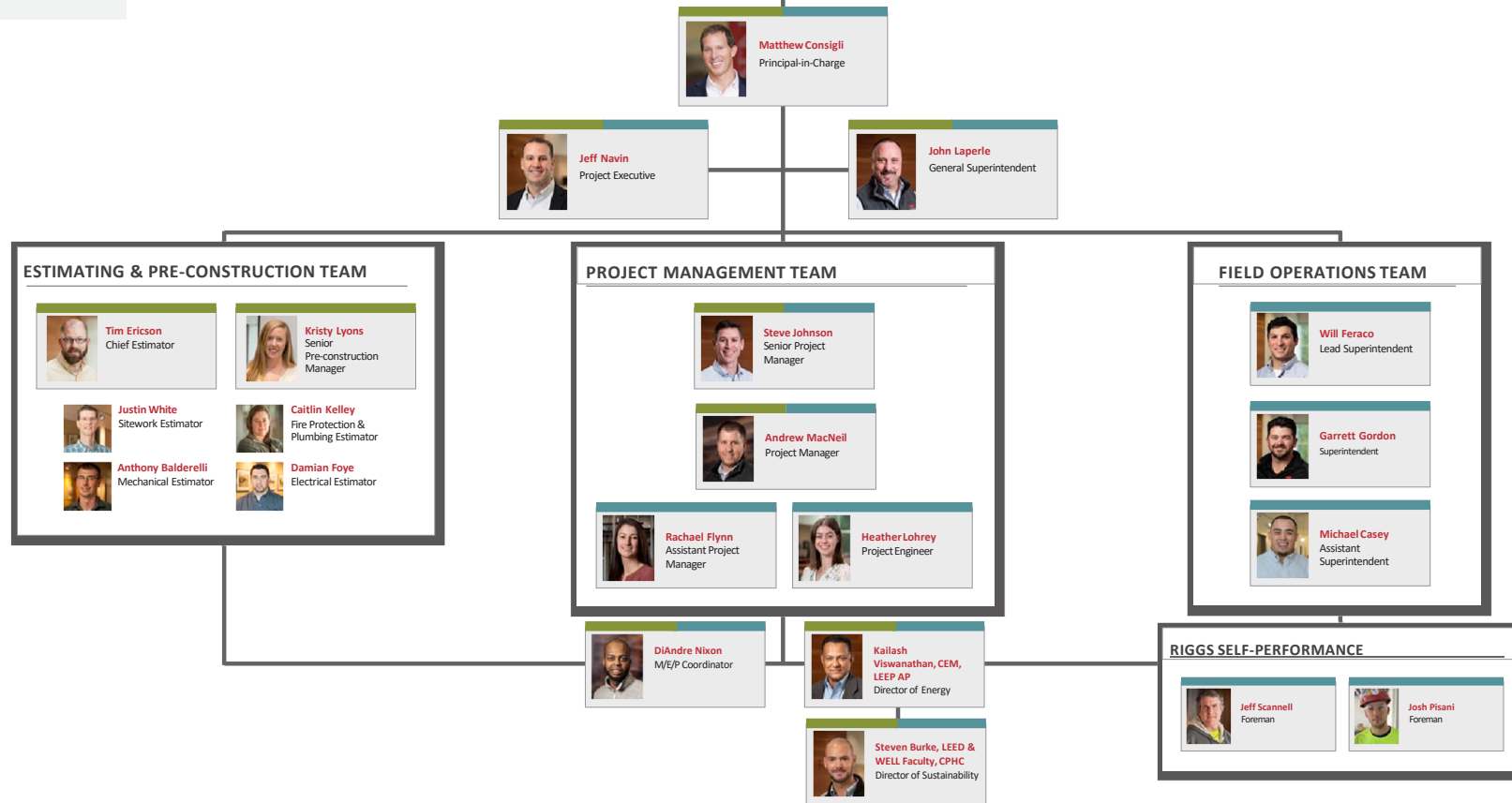


CONSIGLI
Est. 1905

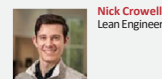
ORGANIZATIONAL CHART

KEY

- Pre-construction Team
- Construction Team



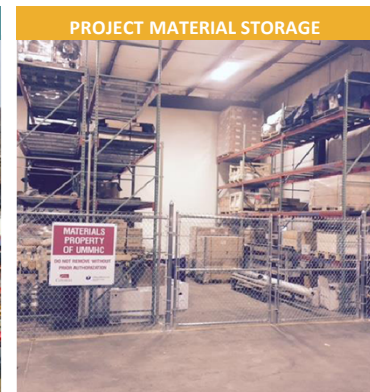
ADDITIONAL TEAM RESOURCES



A LOCAL PARTNER

9 MILES AWAY FROM CONSIGLI OFFICE

100+ LOCAL EMPLOYEES IN TRI-COUNTY TOWNS



PRE-CONSTRUCTION TIMELINE

KICKOFF & PARTNERING

March 2023

SCHEMATIC DESIGN

June 2023

SECURING THE VOTE

July 2023 - October 2023

DESIGN DEVELOPMENT

November 2023 - February 2024

2023

2024

PREPARE MSBA SUBMISSION:
CSI & Uniformat Comparison
Reconciled Estimate
Cash Flow Analysis
Constructability Review

PREPARE MSBA SUBMISSION:
CSI & Uniformat Comparison
Reconciled Estimate
Cash Flow Analysis
Constructability Review

ESCALATION & CONTINGENCY CALCULATOR

ESCALATION CALCULATOR
Waltham High School
January 28, 2021



DISCIPLINE	VALUE	PER ANNUM	BIDDING	KEY DATES			ESCALATION			TOTAL	
				START	COMPLETE	IMPACT	FROM	TO	%		
A. Demolition	50	2.0%	08/20/21	08/15/20	11/15/20	09/30/20	01/28/21	09/30/20	3.93	0.7%	\$0
B. Architectural	582,739,452	2.0%	08/20/21	09/01/21	09/01/24	01/15/23	01/28/21	01/15/23	23.57	3.9%	\$3,249,822
C. Structural	575,747	2.0%	08/20/21	08/01/21	07/01/22	01/15/22	01/28/21	01/15/22	11.57	1.9%	\$14,955
Early Concrete	575,747	2.0%	08/20/21	08/01/21	07/01/22	01/15/22	01/28/21	08/01/21	6.10	1.0%	\$351,000
B	575,747	2.0%	08/20/21	08/01/21	07/01/22	01/15/22	01/28/21	08/01/21	6.10	1.0%	\$351,000
D. PP/Plumbing	512,375,284	2.0%	08/20/21	12/01/21	09/01/24	02/15/23	01/28/21	02/15/23	24.57	4.1%	\$506,699
E	512,375,284	2.0%	08/20/21	12/01/21	09/01/24	02/15/23	01/28/21	02/15/23	24.57	4.1%	\$506,699
F	512,375,284	2.0%	08/20/21	12/01/21	09/01/24	02/15/23	01/28/21	02/15/23	24.57	4.1%	\$506,699
G. Mechanical	528,873,441	2.0%	08/20/21	12/01/21	09/01/24	02/15/23	01/28/21	02/15/23	24.57	4.1%	\$794,599
H	528,873,441	2.0%	08/20/21	12/01/21	09/01/24	02/15/23	01/28/21	02/15/23	24.57	4.1%	\$794,599
I. Electrical	519,408,766	2.0%	08/20/21	09/01/21	09/01/24	05/15/23	01/28/21	09/01/21	27.63	4.6%	\$791,716
J	519,408,766	2.0%	08/20/21	09/01/21	09/01/24	05/15/23	01/28/21	09/01/21	27.63	4.6%	\$791,716
K. Civil/Geotech	517,190,464	2.0%	08/20/21	09/01/21	09/01/24	05/15/23	01/28/21	09/01/21	27.63	4.6%	\$791,716
L	517,190,464	2.0%	08/20/21	09/01/21	09/01/24	05/15/23	01/28/21	09/01/21	27.63	4.6%	\$791,716
M. Early Site Package	50	2.0%	08/20/21	09/01/21	09/01/24	05/15/23	01/28/21	09/01/21	5.60	0.9%	\$0
N	50	2.0%	08/20/21	09/01/21	09/01/24	05/15/23	01/28/21	09/01/21	5.60	0.9%	\$0
O. PP/Plumbing	50	2.0%	08/20/21	09/01/21	09/01/24	05/15/23	01/28/21	09/01/21	37.10	6.2%	\$524,368
P	50	2.0%	08/20/21	09/01/21	09/01/24	05/15/23	01/28/21	09/01/21	37.10	6.2%	\$524,368
Q. Mechanical	58,480,352	2.0%	08/20/21	09/01/21	09/01/24	05/15/23	01/28/21	09/01/21	37.10	6.2%	\$524,368
R	58,480,352	2.0%	08/20/21	09/01/21	09/01/24	05/15/23	01/28/21	09/01/21	37.10	6.2%	\$524,368
S. Electrical	50	2.0%	08/20/21	09/01/21	09/01/24	05/15/23	01/28/21	09/01/21	37.10	6.2%	\$524,368
T	50	2.0%	08/20/21	09/01/21	09/01/24	05/15/23	01/28/21	09/01/21	37.10	6.2%	\$524,368

CONTINGENCY CALCULATOR
Waltham High School
January 28, 2021



DISCIPLINE	VALUE	% DIRECT PLANNED STAGE	BASELINE COMPLETENESS	FACTOR	ACTUAL %	DESIGN/ESTIMATE CONTINGENCY			
						CD	CD	TOTAL	
A. Demolition	50	0.0%	60%	CD	3.0%	100%	0.50	1.5%	\$0
B. Architectural	582,739,452	40.5%	60%	CD	3.0%	75%	0.80	3.2%	\$2,447,662
C. Structural	575,747	0.4%	60%	CD	3.0%	100%	1.00	3.0%	\$23,272
Early Concrete	575,747	0.4%	60%	CD	3.0%	100%	1.00	3.0%	\$23,272
B	575,747	0.4%	60%	CD	3.0%	100%	1.00	3.0%	\$23,272
D. PP/Plumbing	512,375,284	6.1%	60%	CD	3.0%	75%	1.00	4.0%	\$495,011
E	512,375,284	6.1%	60%	CD	3.0%	75%	1.00	4.0%	\$495,011
F. Mechanical	528,873,441	14.1%	60%	CD	3.0%	75%	0.80	3.2%	\$923,950
G	528,873,441	14.1%	60%	CD	3.0%	75%	0.80	3.2%	\$923,950
H. Electrical	519,408,766	9.5%	60%	CD	3.0%	75%	1.00	4.0%	\$776,271
I	519,408,766	9.5%	60%	CD	3.0%	75%	1.00	4.0%	\$776,271
J. Civil/Geotech	517,190,464	8.4%	60%	CD	3.0%	75%	1.00	4.0%	\$487,619
K	517,190,464	8.4%	60%	CD	3.0%	75%	1.00	4.0%	\$487,619
L. Early Site Package	50	0.0%	60%	CD	3.0%	75%	1.00	4.0%	\$0
M	50	0.0%	60%	CD	3.0%	75%	1.00	4.0%	\$0
N. PP/Plumbing	50	4.1%	60%	CD	3.0%	75%	1.20	4.8%	\$407,057
O	50	4.1%	60%	CD	3.0%	75%	1.20	4.8%	\$407,057
TRADE SUBTOTAL	\$204,366,093	100%			3.0%	79%			3.42% \$6,996,579

RISK ASSESSMENT LOG

Tri-County Regional Vocational Technical High School
Risk Assessment Log
March 8, 2023



Item#	Item	Risk Item	Probability	Expected Monetary Value (EMV)	Risk Level	Response Strategy	Risk Response Planning	Item#
1	Property/Asset	Hazardous materials discovered during construction demolition activities	1%	\$4,000,000	High	EM/Resist	Engage Geotech to test for hazardous materials before demolition	Open
2	Quality	Quantity of pipe, could result in delay	20%	\$1,000,000	High	EM/Resist	Procure to see risk during procurement, carry responsible allowance for disposal	Open
3	Quality	Loss of soil encountered during excavation work	15%	\$1,000,000	Low	EM/Resist	Procure to see risk during procurement, carry responsible allowance for disposal	Open
4	Quality	Organic soils encountered during excavation work	15%	\$1,000,000	Low	EM/Resist	Procure to see risk during procurement, carry responsible allowance for disposal	Open
5	Quality	Existing utility or services damaged during site activities	12%	\$45,000	Low	Conting	Review as-built drawings and allow 30-day lead to determine soil utility locations	Open
6	Quality	Existing survey does not accurately show location of existing utilities	12%	\$45,000	Low	Conting	Review as-built drawings and allow 30-day lead to determine soil utility locations	Open
7	Quality	Utility company delays impact temporary power to site	20%	\$70,000	Low	Conting	Engage utility providers very early and allow 30-day lead to determine soil utility locations	Open
8	Quality	Utility company delays impact temporary power to site	20%	\$70,000	Low	Conting	Engage utility providers very early and allow 30-day lead to determine soil utility locations	Open
9	Quality	Delays on paperwork, permitting, and scheduling of construction	10%	\$100,000	Medium	Conting/Resist	Leverage relationship with utility company, carry responsible allowance for the process to expedite	Open
10	Quality	Material availability and velocity due to market conditions	15%	\$700,000	Medium	Conting	Engage contract review of 30-day lead, include and incorporate material and equipment for early procurement. Review early procurement plan	Open
11	Quality	Material availability and velocity due to market conditions	15%	\$700,000	Medium	Conting	Engage contract review of 30-day lead, include and incorporate material and equipment for early procurement. Review early procurement plan	Open
12	Quality	Material availability and velocity due to market conditions	15%	\$700,000	Medium	Conting	Engage contract review of 30-day lead, include and incorporate material and equipment for early procurement. Review early procurement plan	Open
13	Quality	Material availability and velocity due to market conditions	15%	\$700,000	Medium	Conting	Engage contract review of 30-day lead, include and incorporate material and equipment for early procurement. Review early procurement plan	Open
14	Quality	Material availability and velocity due to market conditions	15%	\$700,000	Medium	Conting	Engage contract review of 30-day lead, include and incorporate material and equipment for early procurement. Review early procurement plan	Open
15	Quality	Material availability and velocity due to market conditions	15%	\$700,000	Medium	Conting	Engage contract review of 30-day lead, include and incorporate material and equipment for early procurement. Review early procurement plan	Open
16	Quality	Material availability and velocity due to market conditions	15%	\$700,000	Medium	Conting	Engage contract review of 30-day lead, include and incorporate material and equipment for early procurement. Review early procurement plan	Open
17	Quality	Material availability and velocity due to market conditions	15%	\$700,000	Medium	Conting	Engage contract review of 30-day lead, include and incorporate material and equipment for early procurement. Review early procurement plan	Open

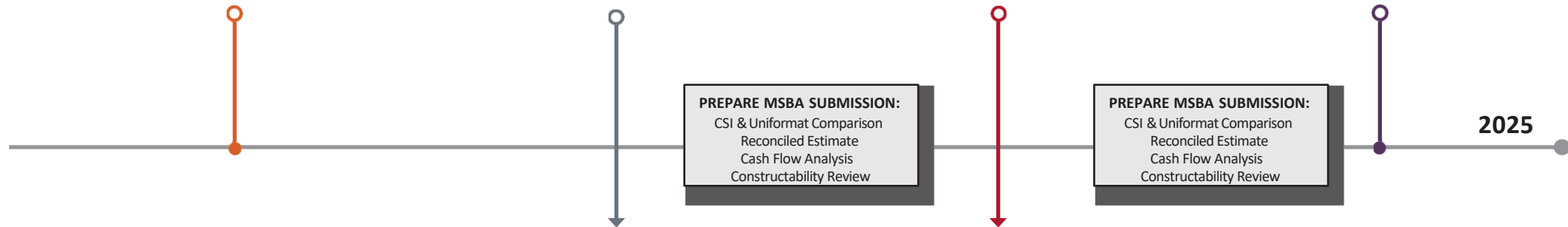
PRE-CONSTRUCTION TIMELINE

**SITework /UTILITIES /
SWITCHGEAR PACKAGE**
April 2024 - May 2024

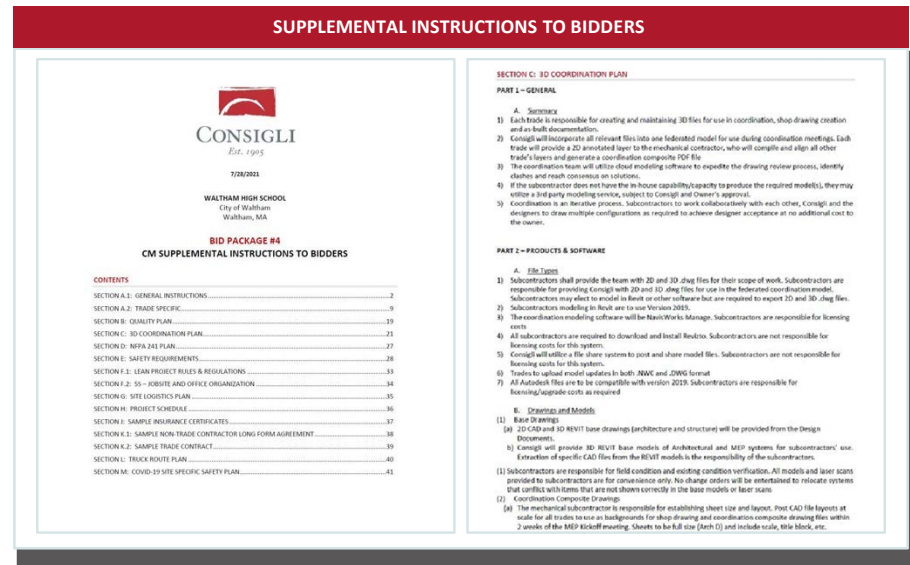
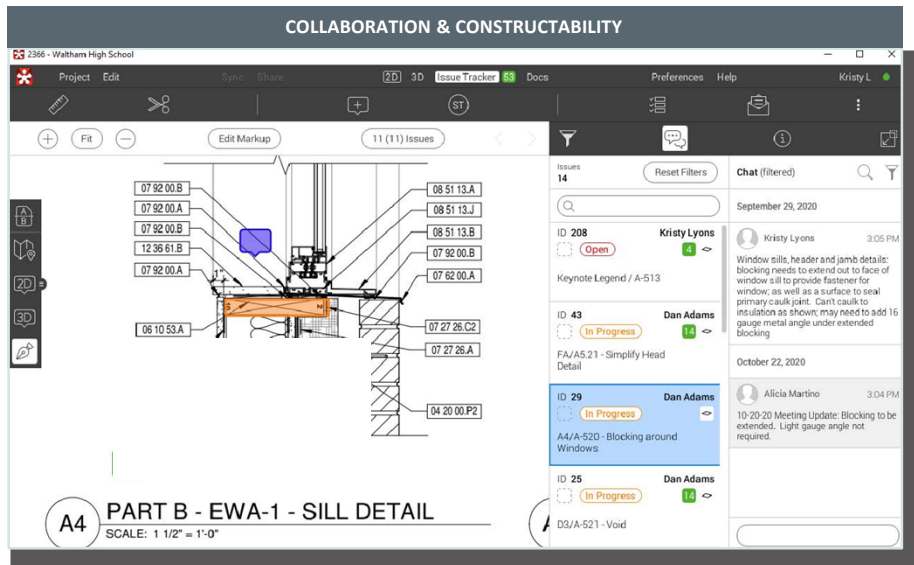
**60% CONSTRUCTION
DOCUMENTS**
March 2024 - June 2024

**90% CONSTRUCTION
DOCUMENTS**
July 2024 - September 2024

FINAL GMP PACKAGE
October 2024 - January 2025



2025

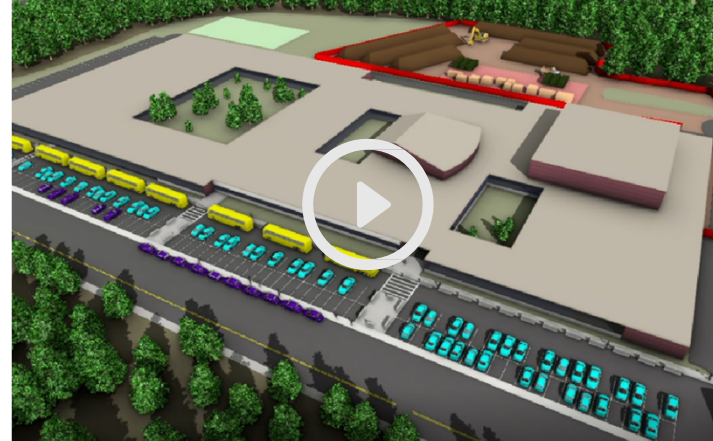


SECURING THE VOTE

PROVEN STRATEGIES:

- › Benchmark energy & sustainability benefits
- › Security & maintenance trends
- › Analyze cost & schedule options
- › Tax impact planning support
- › Attend all Town meetings
- › Present approach, logistics & schedule
- › Develop supporting marketing materials
- › Create website/social media pages
- › Promote grass-roots approach
- › Alumni testimonials
- › Promotional videos & logistics animation

**CONSIGLI HELPED SECURE THE
"YES" VOTES IN 11 COMMUNITIES**



Framingham Fuller Middle School Logistics Animation



Community Presentation at Blue Hills Regional Technical School



Sr. Pre-con Manager Kristy Lyons at Stoneham's Town Day



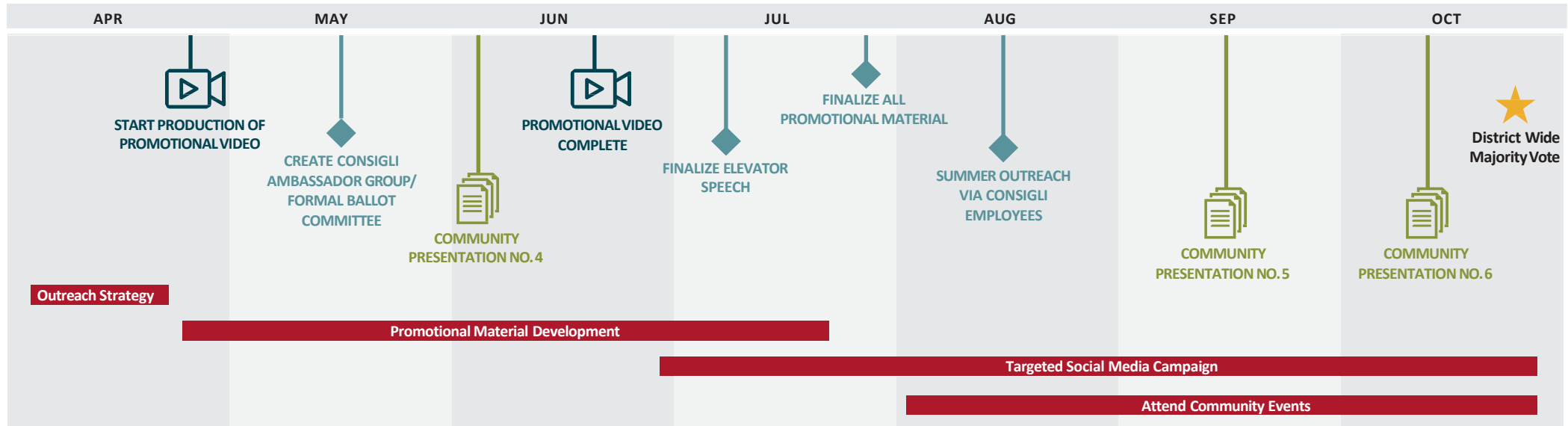
Bryan Lombardi
Stoneham High School Principal

Stoneham High School Promotional Video

SUPPORTING THE VOTE: BUILDING TC PRIDE FOR THE FUTURE

Our goal is to assist TCRV School District in informing and educating as many residents as possible within the eleven towns of the critical importance of funding this school building project. We will collaborate with School Leadership, involve students and leverage our successful approach to securing the vote that has been used at directly relevant projects. We would also work to create a formal Ballot Committee, which will be comprised of parents, community, staff and Consigli employees, to formalize project outreach and supplement our plan below.

2023



PROMOTIONAL VIDEO

- › Determine list of interviewees including staff, faculty, students & alumni
- › Topics should include needs of the existing HS & value of the new HS
- › Alumni testimonials “where are they now”, benefits of voc-tech education
- › Consigli creates the video & works with TC graphic communication students
- › Final video production in June before end of school year
- › Distribute video via social media, websites & community forums

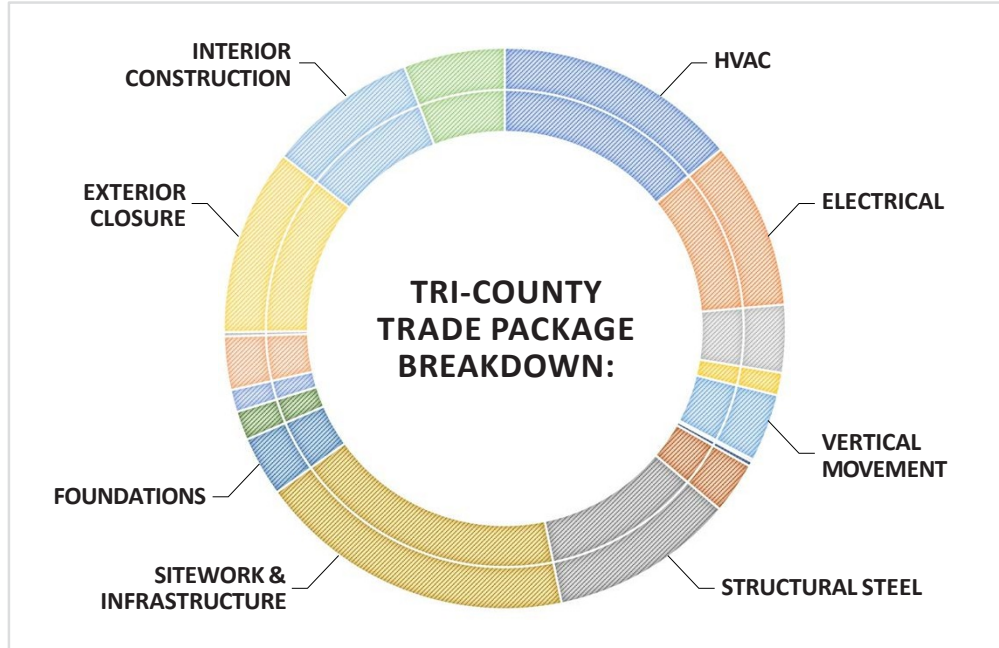
LEVERAGING CONSIGLI EMPLOYEES

- › Consigli to solicit employees in voting communities to participate in outreach
- › Ambassador Group to attend local events & answer project specific questions
- › Develop elevator speech for Consigli to share at local activities
- › Launch social media pages for project promotion to their networks
- › Develop marketing materials to be distributed via social media & news outlets
- › Assist website development, updates & distribution of support material

COMMUNITY OUTREACH & ENGAGEMENT

- › Consigli Tri-County project team to participate in community presentations
- › Consigli schedule and logistics to be summarized & included in presentations
- › Present to community organizations & produce graphics
- › Consigli to develop presentation boards to be displayed at municipal facilities
- › Attend Selectboards/Town Council Meetings to give project updates
- › Coordinate & support local events across all communities (i.e. Franklin Strawberry Fest, Farmers Markets, Norfolk Community Day, etc.)

PROCUREMENT PLAN






TRI-COUNTY COST BREAKDOWN BY TRADE & SUBCONTRACTOR DEPTH CHART					
TRADES	TRADES BREAKDOWN (PER PSR)	% TOTAL OF ESTIMATED PROJECT COST	TRADE/NON TRADE	CAPABLE PUBLIC WORK SUBS	HISTORICAL COVERAGE ISSUE
HVAC	\$20,745,200	9%	Trade	11	1-3
Electrical	\$14,342,313	6%	Trade	9	1-3
Plumbing	\$5,789,784	3%	Trade	9	2-3
Fire Protection	\$1,930,740	1%	Trade	3	1
Roofing	\$5,804,230	3%	Trade	14	6-7
Vertical Movement	\$212,060	0.09%	Trade	6	4
Staircases (Misc Metals)	\$413,107	0.18%	Trade	6	4
Equipment	\$4,420,010	2%	Non-Trade	6	4
Structure (Steel)	\$15,755,395	7%	Non-Trade	8	4
Sitework & Infrastructure	\$27,203,100	12%	Non-Trade	14	4
Foundations	\$5,116,540	2%	Non-Trade	8	4
Furnishings	\$2,481,332	1%	Non-Trade	4	4
Demolition	\$1,903,230	1%	Non-Trade	5	5
Abatement	\$4,560,000	2%	Non-Trade	5	5
Special Construction	\$369,750	0.16%	Non-Trade	10	5-6
Exterior Closure	\$15,937,187	7%	Non-Trade/Trade	15	6
Interior Construction	\$12,825,960	6%	Non-Trade/Trade	15	6
Interior Finishes	\$8,654,185	4%	Non-Trade/Trade	10	6-7

OUR APPROACH:

- › Subcontractor open-houses
- › Private subcontractor outreach for trade bids
- › Site, utilities, switchgear early release packages
- › Increase second-tier subcontractor coverage
- › Pre-purchase M/E/P equipment

SCHEDULE OPTIONS ANALYSIS

SCHEDULE OPTION	DURATION	TURNOVER	COST	PROS	CONS	RECOMMENDATION
RFP	SITE/UTILITIES: 4 NEW BLDG: 34 DEMO/FIELDS: 13 OVERALL: 51	SCHOOL: 4/23/27 FIELDS: 8/10/28	\$	<ul style="list-style-type: none"> ▶ Minimal early release packages ▶ Allows more time for unforeseens ▶ Allows most time for pre-con & design ▶ Owner move in during summer 	<ul style="list-style-type: none"> ▶ Less opportunity to save on GCs/GRs ▶ Longest overall duration of impact 	
ACCELERATED	SITE/UTILITIES: 3.5 NEW BLDG: 30 DEMO/FIELDS: 12.5 OVERALL: 46	SCHOOL: 12/23/26 FIELDS: 3/27/28	\$\$	<ul style="list-style-type: none"> ▶ Saves GCs/GRs ▶ Reduces construction time on-site ▶ Early field turnover 	<ul style="list-style-type: none"> ▶ Owner move-in during academic calendar ▶ Additional early release packages ▶ Reduces pre-construction & design time ▶ Premium time trade costs ▶ 6-day work week throughout 	
FAST-TRACK	SITE/UTILITIES: 3.5 NEW BLDG: 24.5 DEMO/FIELDS: 9.5 OVERALL: 37.5	SCHOOL: 7/14/26 FIELDS: 6/24/27	\$\$\$	<ul style="list-style-type: none"> ▶ Earliest completion of school & fields ▶ Reduces construction time on-site ▶ Least days of traffic in neighborhood 	<ul style="list-style-type: none"> ▶ Eliminates schedule float ▶ Submittal process expedited ▶ Requires most early release packages ▶ Worker burnout & less productivity ▶ Lack of willing participants/bidders 	

NEIGHBORHOOD MITIGATION PLAN

HIGH IMPACT

- DUST** ▶ On-site water trucks to mitigate dust
- SEISMIC** ▶ Vibration monitoring stations throughout site
- NOISE** ▶ No early morning construction to start - Echo Barrier Sound Paneling along fence

MODERATE IMPACT

- TRUCK TRAFFIC** ▶
 - No early morning deliveries
 - Police details and spotters at risk areas
 - Mandatory trucking route for all subcontractors
- DUST** ▶ Street sweeping Tri-County and Pond Street

LOW IMPACT

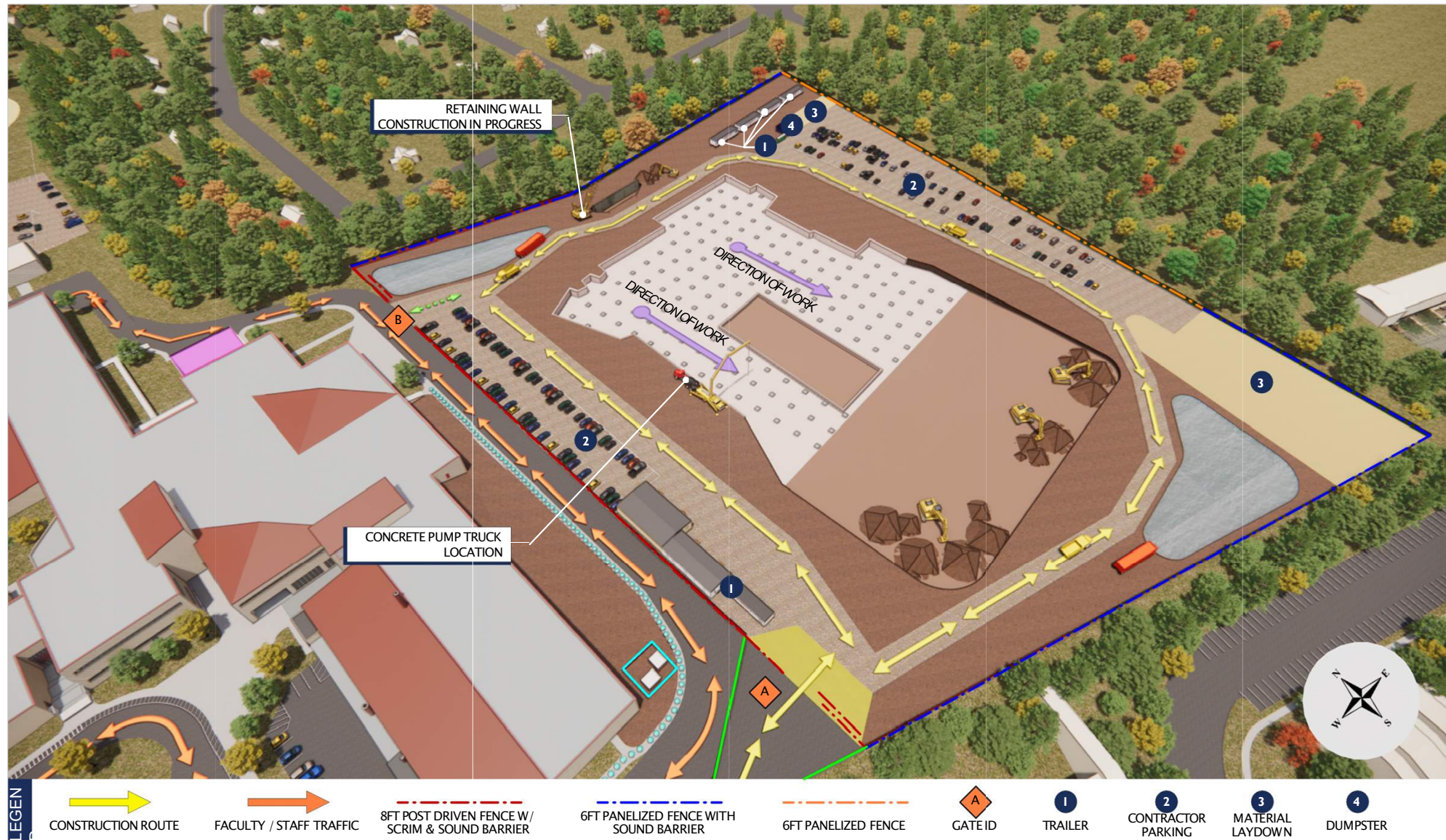
- SEISMIC** ▶ Vibration monitoring stations throughout

COMMUNICATION

Weekly updates sent to Town for abutter/community distribution.



SITework & FOUNDATIONS



LEARNING SCHOOL



WELCOME TO YOUR NEW SCHOOL!

LET'S LEARN HOW YOUR SCHOOL WAS BUILT

360 CONSTRUCTION PLAN

FINISHED SPACE VS. MODEL

CROSS LAMINATED TIMBER

FIREPROOFING



WHAT IS FIREPROOFING?

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WHERE CAN YOU SEE FIREPROOFING AROUND YOUR SCHOOL?

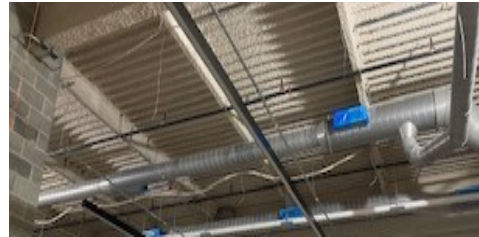
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WANT TO LEARN MORE?

Scan the QR code with your phone!

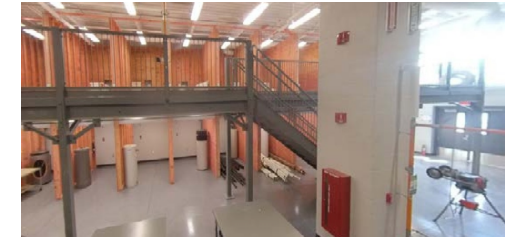
FIREPROOFING



See how fireproofing is applied and resists fires.



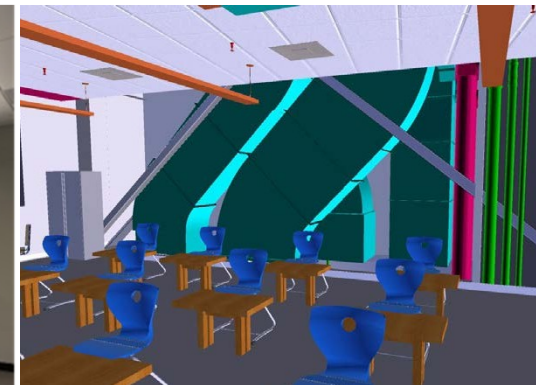
360 CONSTRUCTION TIMELINE



360 video of a space being built throughout the project.



FINISHED SPACE VS. MODEL



STUDENT ENGAGEMENT

INTERNSHIPS

- › Work alongside construction team
- › Student tours to learn the industry
- › Hands-on experience throughout project

CONSIGLI CONSTRUCTION INTERNSHIP PROGRAM



Consigli Construction will be hosting an internship for Bronx High School of Science students during the mid-winter recess February 21-25. Students will have the opportunity to work alongside seasoned project teams to gain exposure to careers in construction management.



In order for students to participate in the five day program they must have **working permits** and **parental consent**. The COVID-19 vaccination is not required; however, non-vaccinated students must always wear a mask.



8:30 AM – 3:00 PM



\$20 per hour

Consigli is dedicated to tailoring this program to **fit the specific needs** of the Bronx High School of Science Community. Work hours and locations can be adjusted to fit the needs of the students.

Please contact Carla Gallardo, Project Manager, at cgallardo@consigli.com with any questions.

PANELS /Q&A

- › Share career pathways & opportunities
- › In-person panels for students & parents
- › Industry expert presentations



EDUCATION PROGRAMS

- › Custom courses for Tri-County students
- › Courses taught by Consigli personnel
- › Safety, VDC, Sustainability, M/E/P training

CONSIGLI COURSE OFFERINGS

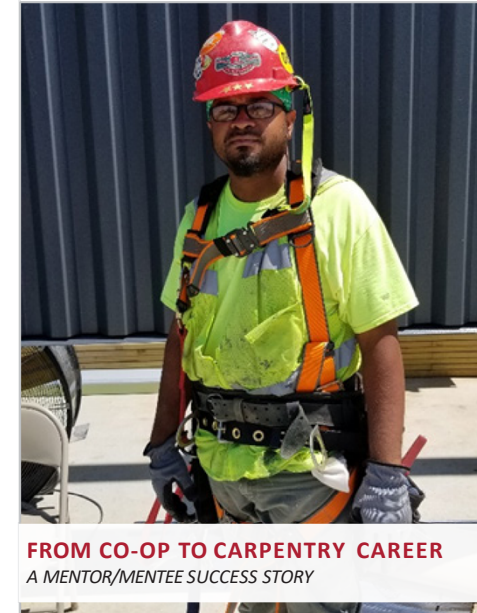


Tri-County Regional Voc-Tech High School



MENTORING

- › Connect students to job opportunities
- › Provide resources & support
- › Career coaching



FROM CO-OP TO CARPENTRY CAREER
A MENTOR/MENTEE SUCCESS STORY

SBC Meeting Agenda – April 20th, 2023

1. Call to Order
2. Previous Topics & Approval of March 23rd, 2023, Meeting Minutes
3. Invoices, Commitments, and Budget Update
 - Dore and Whittier March Invoice No. 017 in the amount of \$15,000.00
 - DRA March Invoice 014, in the amount of \$51,000.00
 - DRA March Professional Services Amendment No.003, Invoice, 004, in the amount of \$1,980.00
 - DRA March Professional Services Amendment No.004, Invoice 001, in the amount of \$3,850.00
4. CM Introduction
- 5. Design Update**
6. Workplan Update
7. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting
8. Public Comment
9. Next Meetings
10. Adjourn



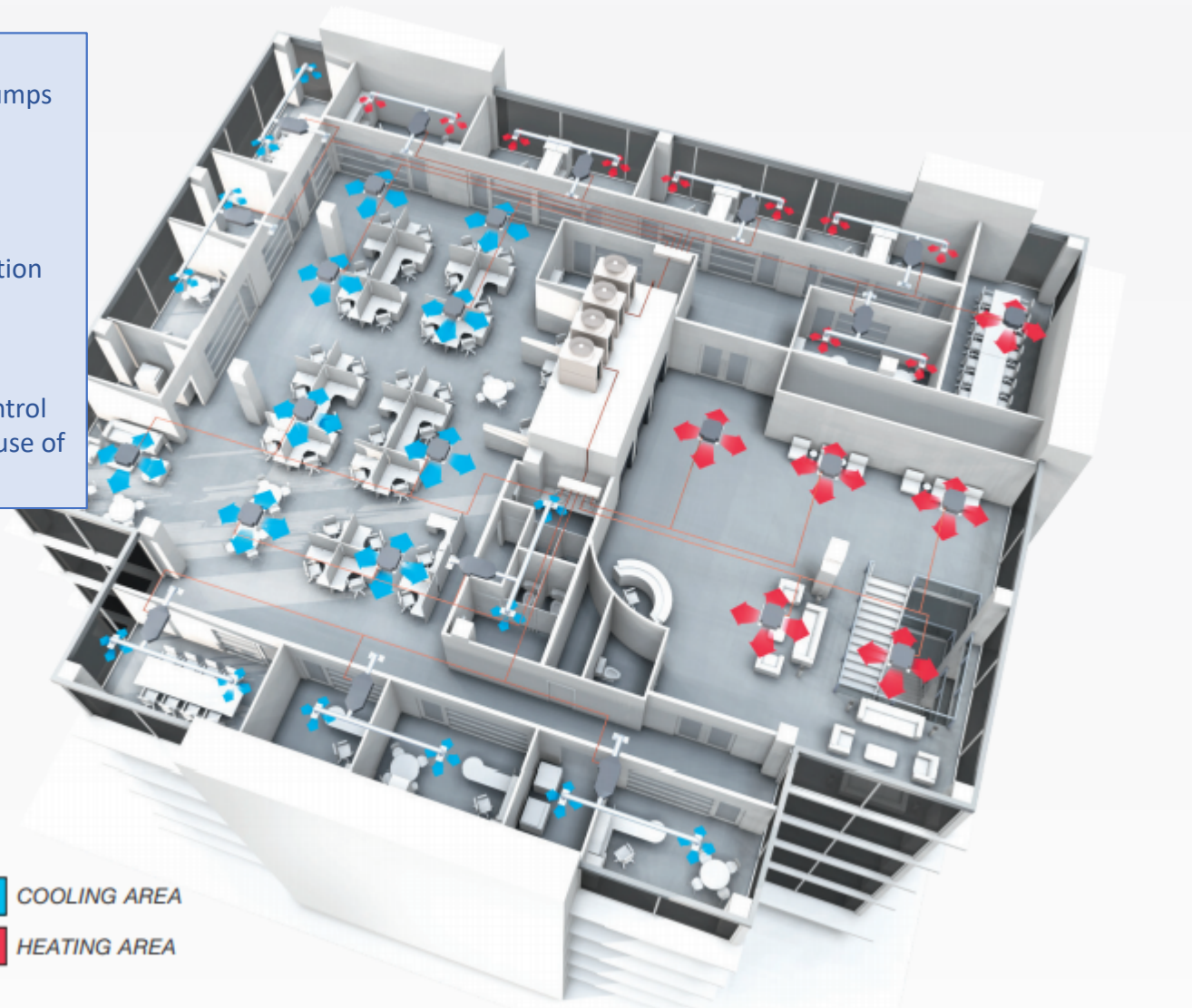
Variable Refrigerant Flow (VRF)

System Consists of:

- Roof or Ground Mounted Heat Pumps
- Ceiling Cassettes
- Concealed Fancoil Units
- Refrigeration Piping w/Branch Controllers
- Energy Recovery Units for Ventilation

System Provides:

- Simultaneous Heating & Cooling
- Individual Space Temperature Control
- Built-in Redundancy through the use of multiple compressors



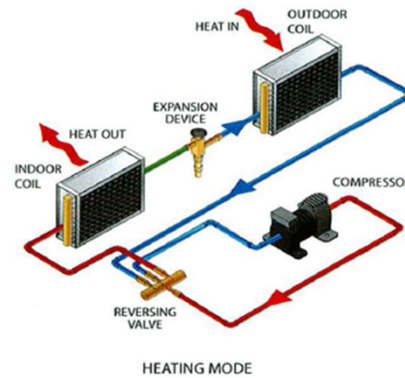
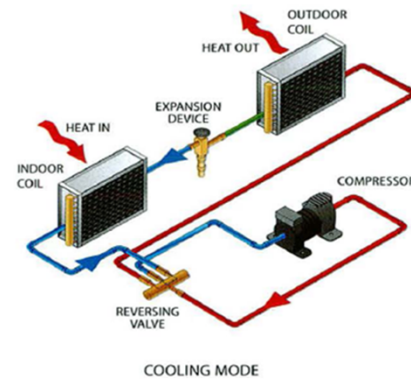
Air Source & Water Source Packaged Heat Pump

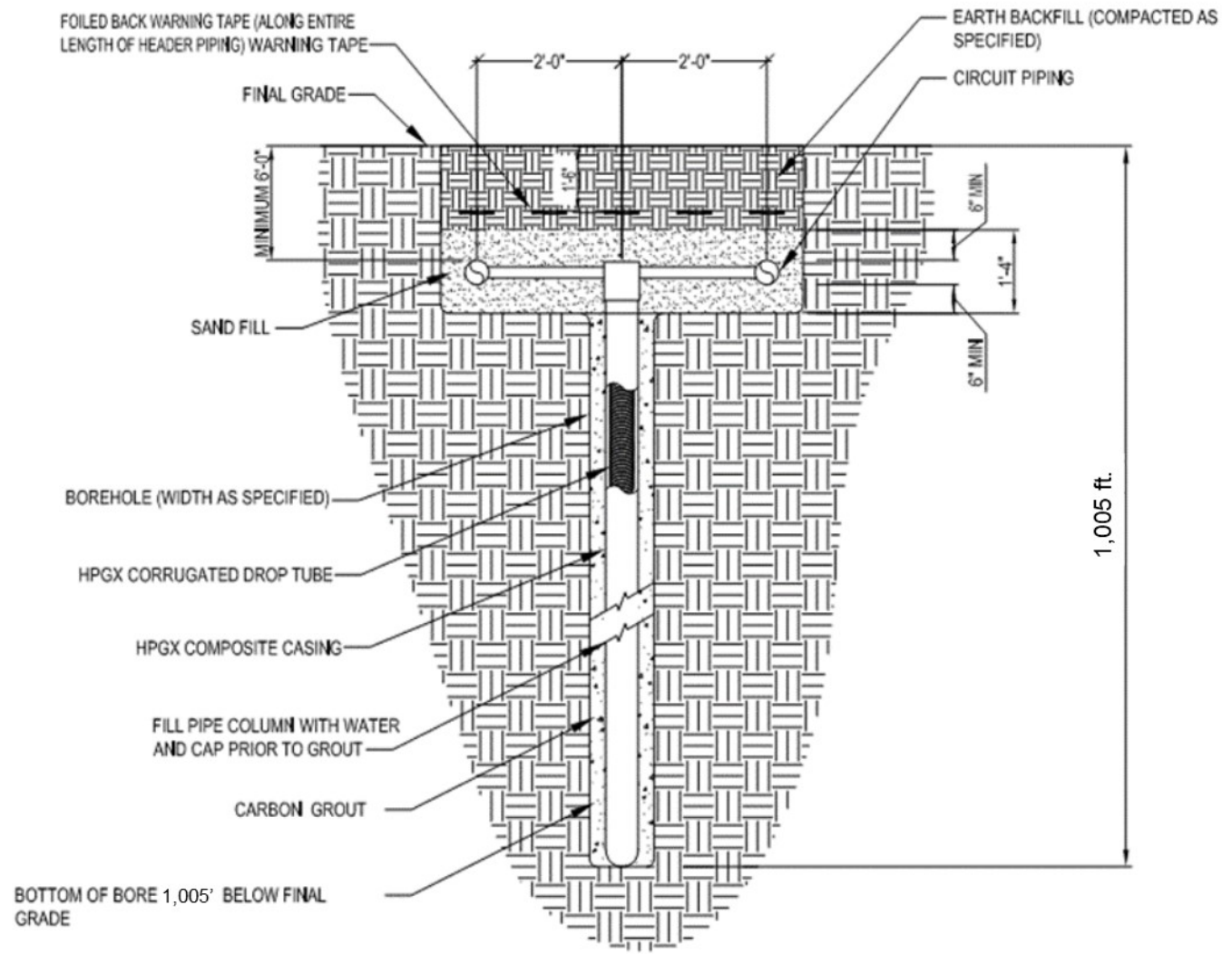


PACKAGED AIR SOURCE HEAT PUMP




PACKAGED WATER SOURCE HEAT PUMP







OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"



DRA

Drumsey Rosaw Anderson, Inc.
 203 Charles Street - Room 205 - Waltham, MA 02453
 225 Coleridge Road - South Windsor, CT 06074
 Tel: 977-864-1700
 www.dra.com

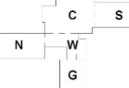
Planning | Architecture | Interior Design

Tri-County Regional Vocational Technical High School


147 Pond St, Franklin, MA 02038

Schematic Design


-/-/2023



KEY PLAN



PROJECT NORTH



MAGNETIC NORTH

OVERALL FIRST FLOOR PLAN

Scale: 1/16" = 1'-0"
Project #: 2000.00
Drawn By:
Date: -/-/2023

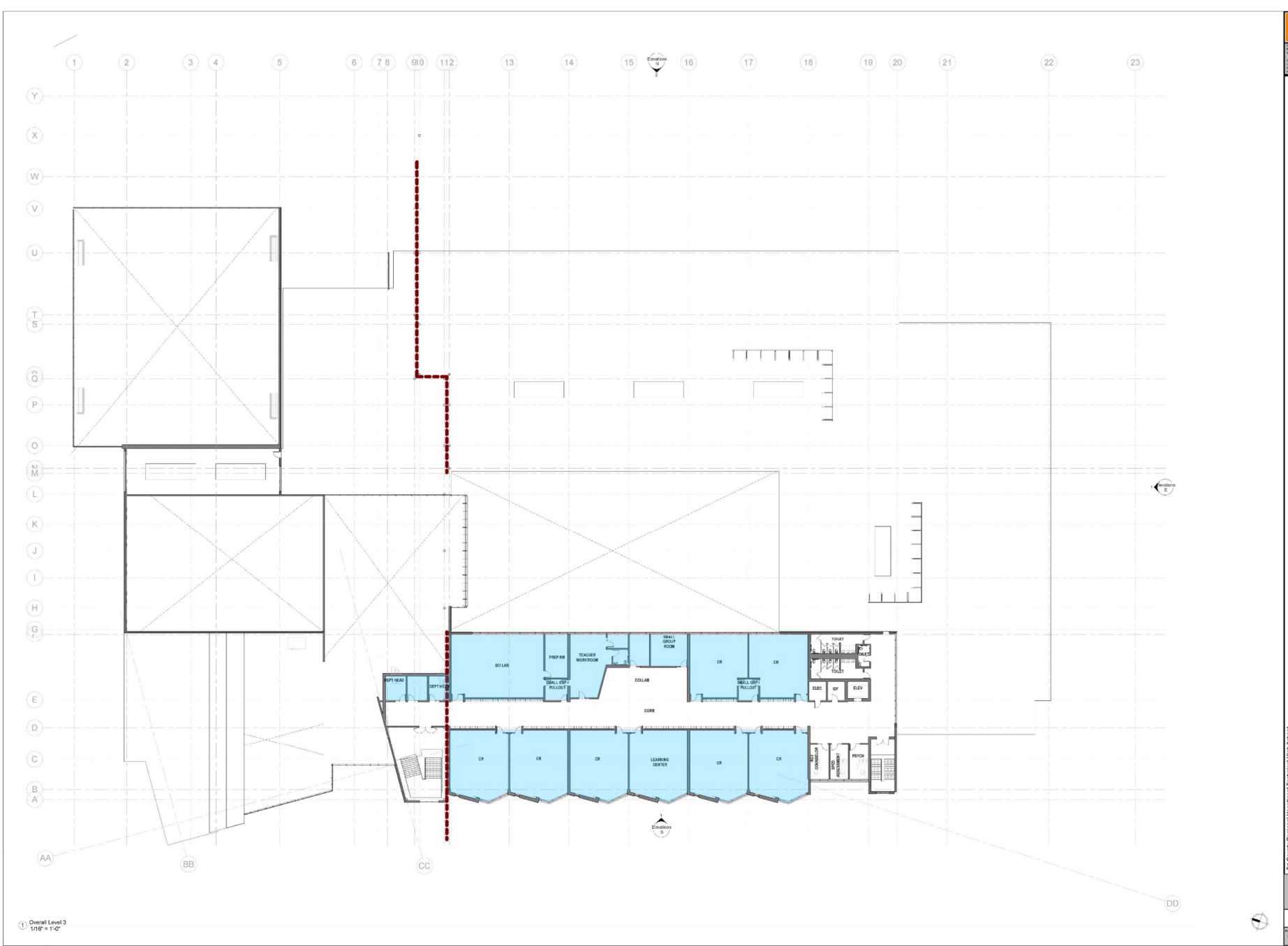
A10-1



1. OVERALL SECOND FLOOR PLAN
 1/8" = 1'-0"


 DRA
 117 North 7th Street, Suite 200
 Portland, OR 97209
 Phone: 503.281.1111
 Fax: 503.281.1112

Tri-County Regional Vocational Technical High School
 OVERALL SECOND FLOOR PLAN
 Schematic Design
 A1-0-2
 Project: 1300-01
 Date: 10/14/14
 Scale: 1/8" = 1'-0"



Overall Level 3
1/16" = 1'-0"

EMERGENCY POWER SYSTEM



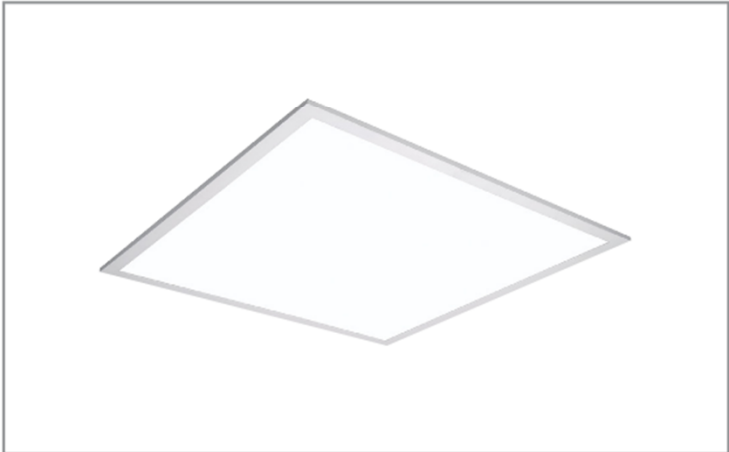
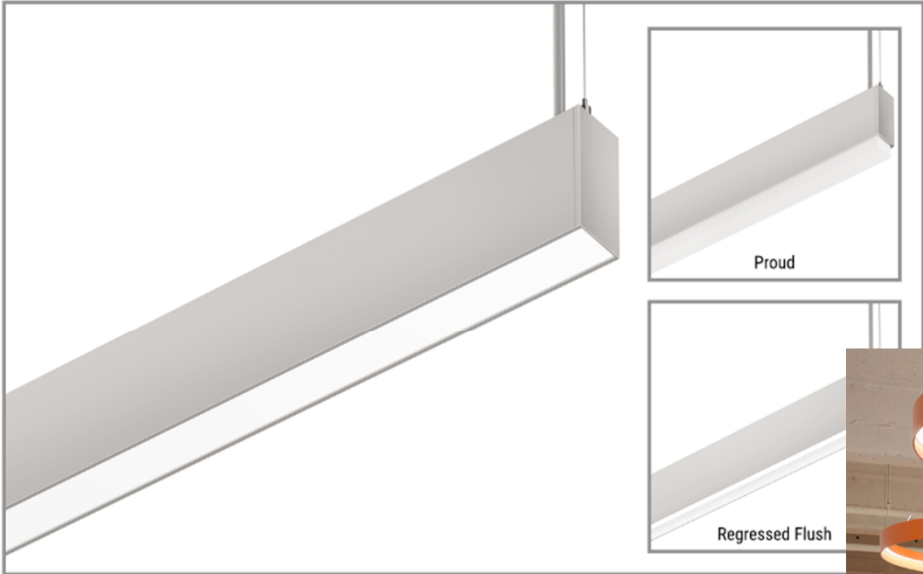
- Two (2) diesel fuel generators with a sound attenuated, weatherproof enclosures
- Rated at 800kW (ea.)

- Exterior building mounted lighting
- Mechanical Room and Penthouse lighting
- Electrical rooms lighting
- Egress Corridors and Stairs lighting
- IDF and MDF lighting
- Main Office lighting
- Principal Office lighting
- Nurse Office lighting
- Phys Ed Office lighting
- Elevator Machine Room
- Gymnasium lighting
- Custodians Office lighting
- Custodians Receiving and General Supply lighting
- Interior windowless spaces lighting
- Elevator lighting and pit lighting
- Kitchen lighting
- Toilet rooms lighting
- Make Air Unit lighting
- Cafeteria lighting

LIGHTING & LIGHT CONTROL



LED LIGHTING
THROUGHOUT



TARGET 0.38 WATTS/SQUARE FOOT

FIRE PROTECTION

- Fully Sprinklered Building
- Zoned System (54,000sf max)
- Electric Motor Driven Fire Pump
- Floor Control Valves
- Flat Plate Concealed Sprinkler Heads



Floor Control Valve Assembly



Concealed Pendent Sprinkler



Electric Motor Driven Fire Pump

PLUMBING

- Commercial Building
- Cast Iron Sanitary & Storm Piping
(existing building has Tru Spun which is prone to failure)
- Copper Hot & Cold Water Piping
- Lead Free
- Insulated Water and Storm Piping
- Water Pressure Booster System



Packaged Water Pressure Booster



Typical Tru Spun Pipe Failure

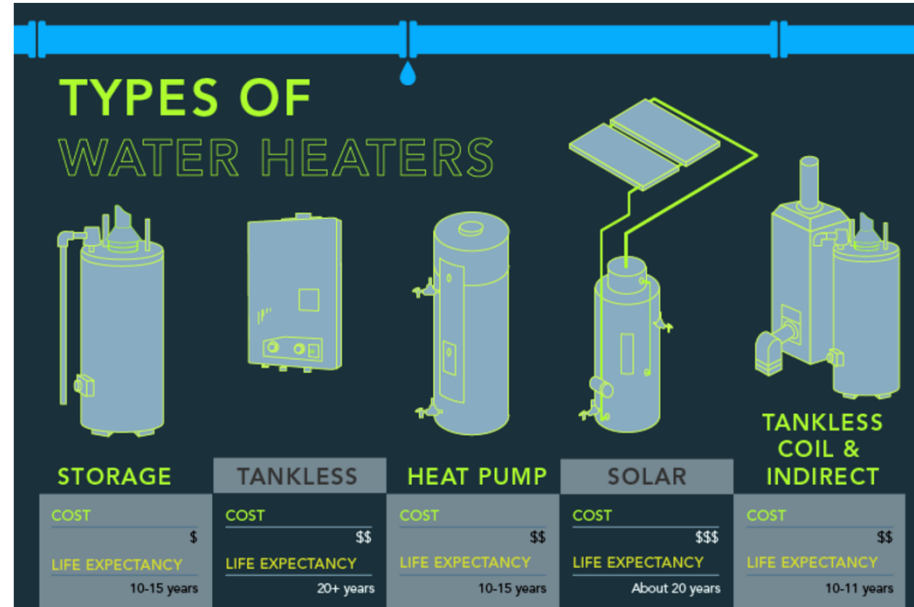
Plumbing Fixtures

- Low Flow
- Water Conserving
- Vitreous China
- Wall-hung
- Manual Flush Valves & Faucets
- Lead Free
- Circulated Hot Water



Water Heating

High Efficiency Gas-Fired Storage Tanks



Electric Tankless Point-of-Use

- Gas v. Electric
- Recovery
 - > Gas
 - < Electric
- Storage
 - < Gas
 - > Electric
- Equipment Quantity
 - < Gas
 - > Electric



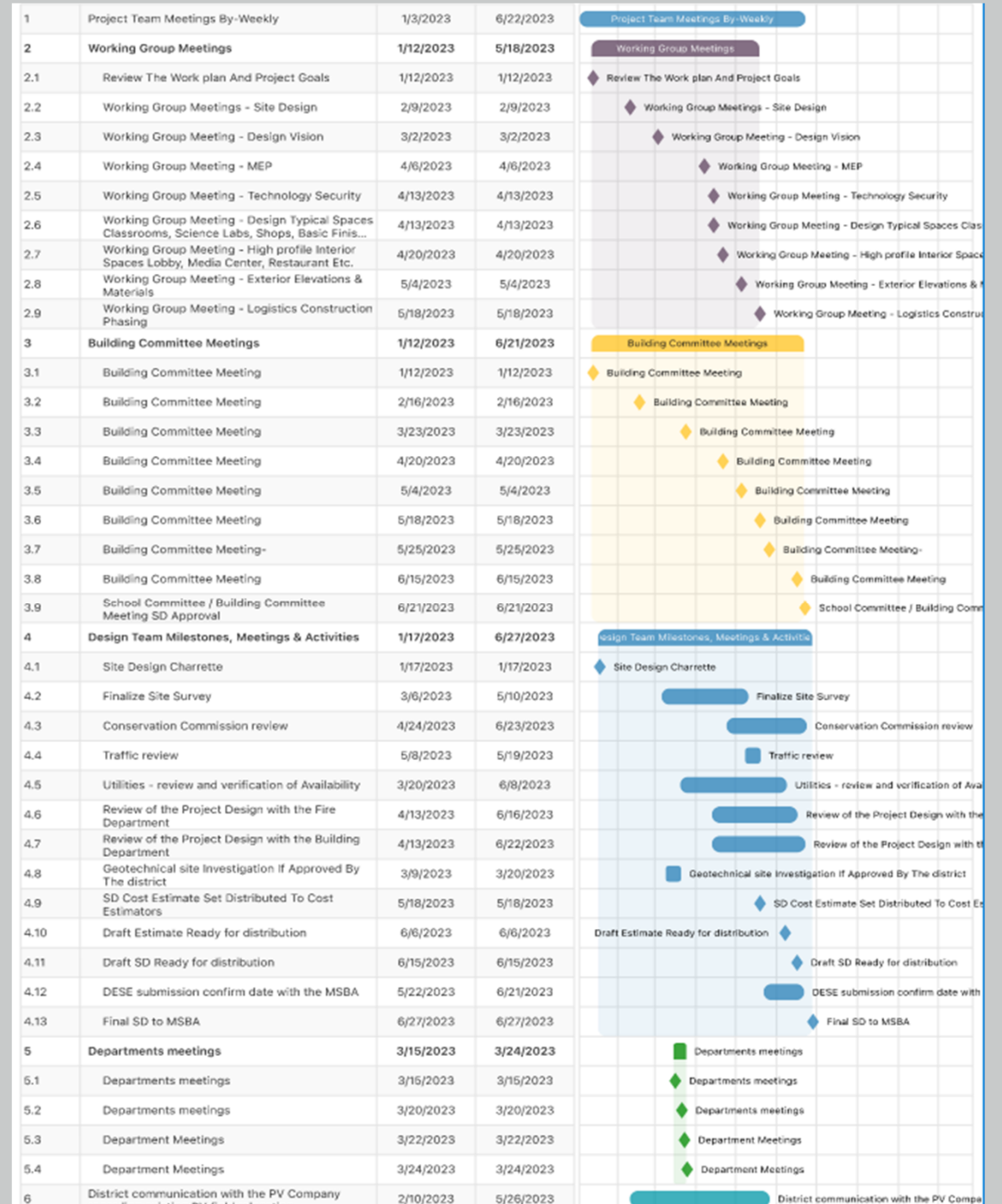
High Efficiency Gas-Fired Tankless

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DRA Updated Work Plan:

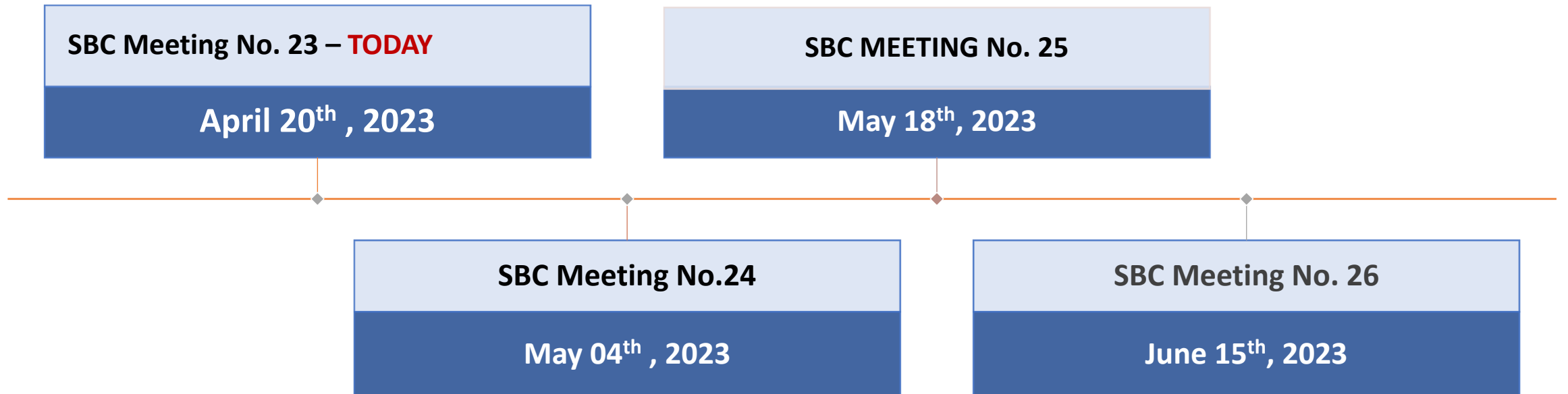


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Upcoming Meetings



School Building
Committee
Adjourn
“Roll Call Vote”
expected

“Motion to Adjourn by _____,
2nd by _____”

School Building Committee Members Roll Call:

- Brian Mushnick
- Karen Maguire
- Dan Haynes
- Michael Procaccini
- Jonathon Dowse
- Brendan Bowen
- Stanley Widak Jr.
- Harry Takesian
- Jane Hardin
- Bob Foley
- Lloyd “Gus” Brown



Thank You!

DRA

dw
DORE | WHITTIER