

Spaulding High School

June 8, 2020

A Message from the Principal

Our final week for students and student work is upon us. We continue to encourage our students to finish strong. Please contact teachers and/or counselors in regards to any questions about academics. No student work will be accepted after 3 PM on Friday, June 12th, so it is very important that students verify with their teachers any outstanding work that they need to complete. Final grades will be posted in IC by Friday, June 19th. If you have difficulty accessing IC, please contact Anna Ryan at aryanshs@busd.org.

We will be sending surveys to students, parents and staff requesting feedback and information about our remote learning experience soon. We always are looking for ways to improve our system and grow from what we have learned. All feedback is greatly appreciated.

We will continue to send messages out throughout the summer, as guidance becomes available from Governor Scott and the Agency of Education (AoE). There are still many unknowns as we plan for the 2020-21 school year. We are incredibly anxious to be back at Spaulding and face to face with our students. Until then, please be safe!

A Message for Seniors

Our final week of student days is upon us. There have been many emotions, especially during our remote learning weeks, and we are so happy and proud of all that has been accomplished during these weeks. The perseverance, resilience and positivity that many of you have shown through this difficult time is amazing. Challenges in life make us stronger - and you should know that you have it within you to overcome the challenges yet to come.

For some, however, there are still a few challenges to tackle before leaving SHS! All learning tasks and assessments/reassessments need to be completed by 3 PM on June 12th, as well as having completed your community service and the documentation. If you need support, please reach out to your teacher(s) and/or counselors. We want all of you to be part of the Graduating Class of 2020.

WCAX will continue with their tributes to seniors, and SHS will be featured. We anticipate that the feature will be aired Friday, June 12th.

Seniors and their parents should have received an email about the individual graduation ceremony, including how to sign up for the individual graduation ceremony. The ceremonies will be on June 17th and 18th from 8 AM to 6 PM and June 19th 8 AM to 11 AM. If you have questions about the sign up, please contact Beth Bicknell, ebickshs@busd.org. If you are unable to attend the ceremony at SHS, please contact Brenda Waterhouse at bwateshs@busd.org for a delivery ceremony. The delivery ceremonies will be on June 19th between 1 PM and 5 PM. Each graduate will have two cars that can attend to observe the graduate having their name called, walk across the stage, have a few words shared to commemorate the event, accept their diploma and turn their tassel, followed by photographs.

The virtual graduation video link will be shared on our website at 11 AM on June 20th. The video includes the student speeches and class song, along with other elements of our traditional graduation. I encourage everyone to watch together and help celebrate our seniors, even if it is while physically distancing.



Summer Reading

Due to COVID-19/remote learning, SHS will not be able to distribute materials for our summer reading book group program. We still value reading, and your English teachers strongly encourage you to read the equivalent of at least one book over the summer. We encourage you to check out <https://www.spauldinglibrary.org/> to see what resources are available in either physical books, digital books, or audio books. Requests for books to be signed out of the library need to be made by June 12th. To make a request, please contact our librarian, Christine Smith, at csmitshs@buusd.org.

Burdett Awards - Quarter 4

The following Spaulding High School students were recognized with the Robert M. Burdett Memorial Award. Teachers and staff nominated students in one of the following categories: Good Citizen, Unsung Hero, Exceptional Growth/Improvement, and/or Exceptional Perseverance/Resilience. These students help build our school community and should be commended on their recognition.

Freshmen: Paige Allen, Riley Fleury, Kathryn Harding, Alysha Hull, Claire Isabelle, Omar LaBay, Lily LaCroix, Ella Lewis, Abigail Lindhiem, Rebecca McKelvey, Alaina Rueda, Chandler Wallin, and Charlotte Young. **Sophomores:** Madison Ashe, Ethan Bernier, Emma Blaisdell, Logan Bristow, Christian Day, Landen Farnham, Cydney Ferrer, Julia Fewer, Abrianna Gould, Caleb Huntington, Jonathan Jesmonth, Payton Lamberti, Emily Morris, Jake Picard, Emily Poulin, Lexie Royce, Kelly Sanders, Alyson Savoie, and Abbigail Smith. **Juniors:** Jacob Allen, Paige Bristow, Emma Cushman, Jake Darling, Allison Everett, Isabelle Fischer, Rachel Forlow, Theresa Hoar, Eamon Hogan, Anthony Ingalls, Benjamin Isabelle, Camden Kelley, Carson King, Savannah Light, Amina Malagic, Kiana Martin, Conner Neddo, Willem Pontbriand, David Poulin, Nathan Romeo, Anna Sancibrian, Jenna Sawyer, and Jasmine Sayah. **Seniors:** Caleb Burns, Jack Dodd, Gavin Glosser, Grace Hardaker, Madison Henderson, Grace Parsons, Elizabeth Poirier, and Kaelyn Shannon.

A Message from Natalie Soffen, Athletic Director

When I left Spaulding back in 2000, I never thought I would be back in Vermont, let alone at my old high school. As I continued my next journey I found myself talking about my hometown and my home state. I found a greater appreciation for the place that helped make me who I am. While pregnant with my 2nd child, I came to realize I wanted to raise my children back in Vermont. The job search began, what I knew, was that I wanted to be an Athletic Director, why? I love sports and I love kids; it is a different way for me to be a teacher. Sadly for me, the AD position at Spaulding was not open. I had to look elsewhere, and I found a nice fit at Peoples Academy, but still, I kept my family in Barre. My kids were happy here and so was I. I traveled 2 hours every day for 7 years. During those 7 years, if I was not at PA covering a game, I was at Spaulding supporting my Alma Mater and my community. Then, one day, I got a message saying "the Spaulding AD position is open;" it was a no brainer. Spaulding was the dream, not only for my family but for me. My first day, as cliché as it is, it felt like I was home. The place I was meant to be. During the fall sports meeting, I was nervous but excited. I have prided myself to get to know my students and allow them to get to know me; I love making connections. Face it, we see so much of each other, I see them as part of my family. What made my transition to Spaulding so great? The faculty, staff, and our students. Everyone accepted me and made me feel like I had never left. Everywhere I went I got flashbacks from when I was in HS, and it brought back so many great memories. I don't regret leaving after HS, that too, helped me grow as a person. Just remember, Barre and SHS will always welcome you home.

To the seniors: I am grateful that I was able to be a part of your senior year. I loved getting to know you, I just wish I had more time with you. You have represented your school and community very well and I don't doubt you will continue to do so in your next adventure. I hope to see you at future SHS events, and reach out to me if you ever need anything. Please enjoy the senior athletic [slideshow](#).





June 2020
INDUSTRY EDUCATION
Director: Penny Chamberlin

DIRECTOR CTE BYTES:

- ❖ **CVCC 2020 Awards Ceremony** - Was live streamed on June 9, 2020 at 5:30 p.m. See the website for links to see a recorded version from June 9th!
- ❖ Bake Shop silent auction of a few pieces of equipment happened the last week of May 25, 2020 with the final movement of furniture and other equipment the first week of June.
- ❖ **Team Leaders** met on May 26, 2020 reviewed **scholarship applications** and have determined awards and scholarships that will be awarded for year 2020.
- ❖ **2020-2021 Admissions** - CVCC is planning to open in the Fall of 2020 with 180 students. Enrollment reports are included with this newsletter.
- ❖ **Feasibility Study and Needs Assessment - Phase 1**. The Re-Envisioning Team and Lavallee Architects will present their results of Phase 1 to the BUUSD Board on June 25, 2020.
- ❖ Testing for Electrical, Plumbing and Heating and Cosmetology will take place after the close of school. The students in Electrical will be proctored from VTC online.
- ❖ **VTLC (Jennifer Luck-Hill)**: has been working with VTVLC to offer CVCC Instructors and staff a free course facilitated by Jen, called Online Teaching Best Practices, to help them become better online teachers. The course is meant to help teachers who unexpectedly find themselves teaching online without having previous training in the pedagogy of online teaching. The course will offer a selection of materials from multiple classes by the [Northeast Online Teaching Institute](#) including Methods 1: Introduction to Online Teaching, Methods II: Online Teaching Tools & Techniques, and Online Teaching with Practicum. The class uses the seven [National Standards for Quality Online Teaching](#) to organize the class content. The course will run from June 10th - June 19th and will offer teachers a certificate of 10 hours of professional learning towards their teacher relicensure. This course will help CVCC instructors to be better prepared for teaching online and will offer ideas and teaching strategies to help them to be more effective and engaging online teachers with better learning outcomes for students.
- ❖ **Food Shelf Donation**: CVCC staff and students held several fundraising events this year that were not able to come to fruition with group events/trips for the end of the year. In light of the COVID crisis, Team Leaders decided to use some of those associated funds to support the Career Center's regional food banks in the names of CVCC students. Therefore, CVCC will be donating \$1,000 worth of food (as determined by the foodbank) to 6 regional food banks in the sending district areas to support families and students in those areas. An article will be posted to the papers to recognize this donation. This will be done by late June as there will be school staff delivering these items to the food banks. CVCC staff worked hard with in-house businesses and program fundraisers. The gifts will help show that some of those funds were going to impact many of our students and families who are familiar with CVCC.

PROGRAM HIGHLIGHTS

BAKE SHOP: Students completed their NRA (National Restaurant Association) baking exam today. The final class of the offsite Baking Arts program wrapped up the year with all students achieving their National Restaurant Association Baking Certifications. This is a huge accomplishment for these students who dedicated their school year to learning this baking knowledge through reading, writing, researching, demonstrating, and practice. These students did not miss a beat beginning remote learning on 3/18/2020. Students remained active and engaged in their independent learning of food science, culinary history, culinary occupations, nutrition, and knife skills through the generosity of the free online KP Curriculum. Wendy and the CVCC staff are proud of the students for persevering in this trying time and practicing the art of open communication lines.

COSMETOLOGY 1: Cosmetology 1 class has been focusing on design and all of the places where you can gain inspiration. I tasked them with going outside and looking to nature. I was very impressed with their results; they were to observe color, texture, and movement. They were able to see the inspiration better than I had even hoped! Please enjoy the photos that the students took as well as their designs that they found online. One also created a look on their mannequin based on the ferns in their yard!

CULINARY: This was a final test: A composed dish..students had seared chicken before in class and prepared risotto. Now they prepared them together and made a composed dish while in their own homes. Kits were provided: half an onion, a box of Arborio rice, butter, stock, salt, pepper and a chicken breast. Students were encouraged to use other things to garnish with at home and to be creative..if they didn't have anything, that was fine. Here is an uploaded picture of a finished , composed dish.



DMA 1: Digital Media Arts students finished the year strong by making their own portfolios as actual live websites. After the school formed a partnership with the platform Portfoliobox to offer free design and hosting

services, each student presented six of their favorite projects created in the program alongside galleries, biographies, resumes, contact forms, and blog pages to showcase their media art creations from this past year. In the following days, members of the Digital Media Arts advisory board reviewed each students' portfolio and provided assessment and comments for students to receive and learn from. What's most exciting is that every student now has a live website to showcase their work for new professional opportunities!

Visit the DMA student portfolios and learn more about the process on our class website at

<https://sites.google.com/buusd.org/cvcc-dma-2019-2020/final-portfolios>

PLUMBING AND HEATING: All of the P&H students finished their final projects on time with only 4 mistakes for the entire class! The instructor and CVCC Staff are very, very proud of all the work they have done this year and in particular how they completed this project with very little support from their instructor! Special thanks to Granite Group for making this possible!



STAFF HIGHLIGHTS

OUTSTANDING INSTRUCTIONAL STAFF MEMBER OF THE YEAR (BY STUDENT AND STAFF VOTE):

JENNIFER LUCK-HILL: For her dedication to CVCC students and Staff. Jennifer was in each classroom providing IT support and helping with building student portfolios. She also headed off the online staff and student courses to provide additional training besides what was available on site.

OUTSTANDING SUPPORT STAFF MEMBER OF THE YEAR (BY STUDENT AND STAFF VOTE):

STEPHANIE OLSEN: For her willingness to go above and beyond. She is always positive, telling jokes, and supporting staff and students by helping with whatever task comes up.

STUDENT HIGHLIGHTS

Central Vermont Career Center (CVCC) would like to congratulate CVCC students for a job well done in Quarter 4 of 2019-2020, **Congratulations CVCC students for a wonderful Quarter 4 in 2020!**

Program

Automotive Technology
Baking Arts
Building Trades
Cosmetology 1
Cosmetology 2
Culinary Arts
Digital Media Arts 1

Teacher Choice Awardees

Evan Dudley SHS
Alorria McDunnah SHS
Ryan Stearns TUHS
Sophia Callahan HmSI
Taigyn Draper PA
Tama Belotserkovsky U32
Danielle Ricker SHS

Student Choice Awardees

Tyler Guyette SHS
Tina Taylor CVCC
Laven Johnson HmSI
Elijah Laramore SHS
Guin Bagley HUHS
Keagan Desjardins SHS
Hannah Kragh HmSI

Digital Media Arts 2	Elizabeth McCarthy	MHS	William Nykiel	U32
Electrical Technology	Brayden Steele	U32	Troy Bolduc	U32
Emergency Services	Oskar Neuburger	MHS	Savannah Desjardins	SHS
Exploratory Technology	Leland Kennedy	U32	Lowell Deberville	U32
Human Services	Bridget Grant	U32	Jessica Farnham	HUHS
Medical Professions	Kaitlyn Andress	TUHS	Jordan Brimblecombe	TUHS
Natural Resources	Mae Dunham	MHS	Gavin Willett	SHS
Plumbing and Heating	Conner Magoon	SHS	Sebastian Kragh	HmSI
Co-op (off-campus)	Cooper Farnsworth	SHS		

See recorded Awards Night: <https://youtu.be/qaibK8SN5pc>

STUDENT OF THE CENTER: North Hodgson

North was chosen by the Faculty, Staff and Administrative Team. He received a \$1,500 Award and a plaque commemorating this honor. The nominating criteria for this honor consist of a student's:

- instructor's recommendation
- maintaining a “B” or better average,
- having excellent attendance and
- exhibiting a strong interest in the technical field that he or she is exploring.

The outstanding student of the Center is a proven and exceptional student who has successfully combined academics with applied learning. This student has achieved some of our highest honors as well as attended three programs at CVCC. Some of this student’s achievements include:

- inducted into the National Technical Honor Society
- completed the Introduction to College Course,
- earned college credits in through Dual Enrollment
- successful Co-op student
- played high school sports, all while holding near full-time employment in our community

North has grown remarkably in strength and character, to become a community leader who cares about people and the environment. This student’s sense of humor, ability to work through challenges with grace, and ability to help others achieve at high levels, make North someone to honor and celebrate.

2020 CVCC Student of the Program- \$150.00 GIFT CARD

Lenny Cards/except for Culinary and Baking	
Automotive	Justin MaGill
Baking Arts	Zoe Petrella - Capital Kitchen
Building Trades	Iara Mesquita
Co-op	North Hodgson
Cosmetology 1	Sophia Callahan
Cosmetology 2	Joy Sewall
Culinary	Marcus Meacham Capital Kitchen
DMA 1	Theo Labrusciano-Carris
DMA 2	Remy Maas
Electrical	Brayden Steele
Emergency Service	Savannah Desjardins

Exploratory Tech	Cameron Govea
Human Services	Alexis Huckins-Lennys
Medical Professions	Liam Poulin-Lennys
Natural Resources	Mae Dunham
Plumbing & Heating	Nathan Gravel
Leadership	Keagan Desjardins

2020 CVCC Scholar Awards Recipients - \$100.00 Gift Card

Co-op	Cooper Farnsworth
Automotive	Andrew Stacy
Baking Arts	Tina Taylor
Building Trades	John Hebert
Cosmetology 1	N/A - she only has juniors
Cosmetology 2	Taigyn Draper
Culinary Arts	Tama Belotserkovsky
DMA 1	Danielle Ricker
DMA 2	Oliver Barrett
Electrical	Colby Hudson
Emergency Services	
Natural Resources	August Thompson
Plumbing & Heating	Conner Magoon
Pre-Tech	Leland Kennedy
Medical Professions	Kaitlyn Andress

2020 CVCC Students Awarded Scholarships:

Scholarship	Student Recipient (program)
American Legion Auxiliary Barre Unit 10	Jordan Brimblecombe: \$500.00
Barre Kiwanis Club	Jordan Brimblecomb: \$1,000.00
American Legion Barre Post #10	Nathan Gravel: \$500.00
Milford M. Leonard	Dalton Cody: \$3,500.00
Milford M. Leonard	Justin Magill: \$3,500.00
Melvin & Maria McKight	Kaitlyn Andress: \$500.00
Mitchell's Tee's & Design	Attilio Perantoni: \$250.00
Mutuo Soccorso Club	Nathan Gravel: \$1,500.00
Mutuo Soccorso Club	Jordan Brimblecombe: \$1,50.00
The Abilio Amor, Jr Memorial Scholarship	Kaitlyn Andress:\$2,500.00
The Abilio Amor, Jr Memorial Scholarship	John Hebert:\$2,500.00
Washington Electric Cooperative, Inc	Nick Hood: \$250.00
Wayside Restaurant-	Tina Taylor: \$20.00

**Submitted by: CVCC Administrative Assistant
05.27.2020**

UPCOMING EVENTS: End of Year Awards Ceremony



CENTRAL VERMONT

CAREER CENTER

**Central Vermont Career Center (CVCC) would like to congratulate
CVCC students for a job well done in Quarter 4 of 2019-2020**

Congratulations CVCC students for a wonderful Quarter 4 in 2020!

Program

Teacher Choice Awardees

Student Choice Awardees

Automotive Technology

Evan Dudley

SHS

Tyler Guyette

SHS

Baking Arts

Alorria McDunnah

SHS

Tina Taylor

CVCC

Building Trades

Ryan Stearns

TUHS

Laven Johnson

HmSI

Cosmetology 1

Sophia Callahan

HmSI

Elijah Laramore

SHS

Cosmetology 2

Taigyn Draper

PA

Guin Bagley

HUHS

Culinary Arts

Tama Belotserkovsky

U32

Keagan Desjardins

SHS

Digital Media Arts 1

Danielle Ricker

SHS

Hannah Kragh

HmSI

Digital Media Arts 2

Elizabeth McCarthy

MHS

William Nykiel

U32

Electrical Technology

Brayden Steele

U32

Troy Bolduc

U32

Emergency Services

Oskar Neuburger

MHS

Savannah Desjardins

SHS

Exploratory Technology

Leland Kennedy

U32

Lowell Deberville

U32

Human Services

Bridget Grant

U32

Jessica Farnham

HUHS

Medical Professions

Kaitlyn Andress

TUHS

Jordan Brimblecombe

TUHS

Natural Resources

Mae Dunham

MHS

Gavin Willett

SHS

Plumbing and Heating

Conner Magoon

SHS

Sebastian Kragh

HmSI

Co-op (off-campus)

Cooper Farnsworth

SHS



CENTRAL VERMONT

CAREER CENTER

Central Vermont Career Center (CVCC) donated money to the VT Food Bank June 2020

This spring two CVCC programs, who had fundraised all year long for field trips, were unable to go on their trips due to the COVID crisis. CVCC also had students who worked daily in the in-house businesses raising funds for their program trips. Instructional leaders and administration spent many days discussing how to use some of those funds to benefit the students and their communities. It was decided that 5 food shelves in the sending region would receive a donation in the name of CVCC Students, Class of 2020.

The following food shelves received \$1,000 in food donations:

Montpelier Food Pantry of Trinity Church

Waterbury Food Shelf

Capstone Community Action Food Shelf

Onion River Food Shelf

And...

\$2,000 donation will go to the VT Food Bank

Thank you CVCC Class of 2020!



Central Vermont Career Center

2020-2021 Calendar

August

M	T	W	Th	F
3	4	Flex	Flex	Flex
Flex	Flex	Flex	Flex	Flex
Flex	Flex	SD	SD	SD
Flex	25	*26	27\$	28
31				
*CVCC 1st day				
Student Days				4
Staff Dev. Days				4
(1 Flex, 3 SD)				

September

M	T	W	Th	F
	1	2	3	4
V	8	9	10\$	11
14	15	16	17	18
21	22	23	24\$	25
28	29	30		
Student Days				21
Staff Dev. Days				0

October

M	T	W	Th	F
			1	2
5	6	7	*8\$	SD
V	13	14	15	16
19	20	21	22\$	23
26	27	28	29	30
*Parent Conf.				
Student Days				20
Staff Dev. Days				1.5

November

M	T	W	Th	F
2	3	4	5\$	6
9	10	SD	12	13
16	17	18	19\$	20
23	24	V	V	V
30				
Student Days				17
Staff Dev. Days				1

December

M	T	W	Th	F
	1	2	3\$	4
7	8	9	10	11
14	15	16	17\$	18
21	22	V	V	V
V	V	V	V\$	
Student Days				16
Staff Dev. Days				0

January

M	T	W	Th	F
				V
4	5	6	7	8
11	12	13	14\$	15
SD	19	20	21	22
25	26	27	28\$	29
Student Days				19
Staff Dev. Days				1

February

M	T	W	Th	F
1	2	3	4	5
8	9	10	*11\$	12
15	16	17	18	19
V	V	V	V\$	V
*Parent Conf.				
Student Days				15
Staff Dev. Days				0.5

March

M	T	W	Th	F
V	V	3	4	5
8	9	10	11\$	12
15	16	17	18	19
22	23	24	25\$	SD
29	30	31		
Student Days				20
Staff Dev. Days				1.5

April

M	T	W	Th	F
			1	2
5	6	7	8\$	9
12	13	14	15	16
V	V	V	V\$	V
26	27	28	29	30
Student Days				16
Staff Dev. Days				0

May

M	T	W	Th	F
3	4	5	6\$	7
10	11	12	13	14
17	18	19	20\$	21
V	25	26	27	28
31				
Student Days				20
Staff Dev. Days				0

June

M	T	W	Th	F
	1	2	3\$	4
7	*8	9	10	11
14	SD	16	17\$	18
21	22	23	24	25
28	29	30		
*Awards Night 06/08				
Student Days				11
Staff Dev. Days				1

V=Student Vacation
Staff Meeting
Team Meetings
Parent/Teacher Conferences
\$=Payday
SD=Staff Dev./No school for students
08-20-2020= Career Pathways Team
11-11-2019= Planned by Support Team
01-18-2020= Planned by Instructional Team

OTHER SD PLANNING DAYS (TBD)

Students: 180 days
Teachers: 180 student days plus 10 SD
Paras: 180 student days plus 5 SD listed below; (8/19, 8/20, 8/21) (TBD 11/11, 1/18 & 3/26)
April 5 & 8 =SkillsUSA
NTHS = March 25

'06/11/2020 FINAL

Central Vermont Career Center

Barre Supervisory Union- Student Calendar

2020-2021 Calendar

AUGUST

M	T	W	Th	F
17	18	SD	SD	SD
24	25	*26	27	28
31				

**CVCC 1st day*

Student Days 4
Staff Dev. Days 4

SEPTEMBER

M	T	W	Th	F
	1	2	3	4
V	8	9	10	11
14	15	16	17	18
21	22	23	24	25
28	29	30		

Student Days 21
Staff Dev. Days 0

OCTOBER

M	T	W	Th	F
			1	2
5	6	7	8C	SD
V	13	14	15	16
19	20	21	22	23
26	27	28	29	30E

(C) Parent Conf.

Student Days 20
Staff Dev. Days 1.5

NOVEMBER

M	T	W	Th	F
2	3	4	5	6
9	10	SD	12	13
16	17	18	19	20
23	24	V	V	V
30				

Student Days 17
Staff Dev. Days 1

DECEMBER

M	T	W	Th	F
	1	2	3	4
7	8	9	10	11
14	15	16	17	18
21	22	V	V	V
V	V	V	V	

Student Days 16
Staff Dev. Days 0

JANUARY

M	T	W	Th	F
				V
4	5	6	7	8E
11	12	13	14	15
SD	19	20	21	22
25	26	27	28	29

Student Days 19
Staff Dev. Days 1

FEBRUARY

M	T	W	Th	F
1	2	3	4	5
8	9	10	11C	12
15	16	17	18	19
V	V	V	V	V

(C) Parent Conf.

Student Days 15
Staff Dev. Days 0.5

MARCH

M	T	W	Th	F
V	V	3	4	5
8	9	10	11	12
15	16	17	18	19
22	23	24	25E	SD
29	30	31		

Student Days 20
Staff Dev. Days 1.5

APRIL

M	T	W	Th	F
			1	2
5	6	7	8	9
12	13	14	15	16
V	V	V	V	V
26	27	28	29	30

Student Days 17
Staff Dev. Days 0

MAY

M	T	W	Th	F
3	4	5	6	7
10	11	12	13	14
17	18	19	20	21
24	25	26	27	28
V				

Student Days 20
Staff Dev. Days 0

JUNE

M	T	W	Th	F
	1	2	3	4
7	*8E	9	10	11R
14	SD	16	17	18
21	22	23	24	25
28	29	30		

**Awards Night 06-08-19*

Student Days 10
Staff Dev. Days 1

Student Days: 180

V Student vacation

SD Inservice/No School

C Parent-Teacher Conf (3:30-7)

E=End of Marking Period

R=Report Cards Issued

August 26

August 27

September 7

October 08

October 09

October 12

November 11

November 19

November 19

November 25-27

December 6

January 15

First Day of School for CVCC

CVCC Picture Day

Labor Day - No School

Parent-Teacher Conf 3:30-7:00 pm

Inservice Day/No School

Holiday-No School

Inservice Day/No School

CVCC Quarter 1 Awards

CVCC Open House/ College Fair 5:30

Holiday-No School

Holiday Vacation - No School

CVCC Quarter 2 Awards

January 18

February 11

Feb 22-Mar 2

March 25

March 26

April 5-8 TBD

April 16

April 19-23

April 29 TBD

May 28

May 31

June 08

Inservice Day/No School

Parent-Teacher Conf 3:30-7:00pm

Vacation - No School

National Tech Honor Society

Inservice Day/No School

SkillsUSA

CVCC Quarter 3 Awards

Vacation-No School

Spring Open House

CVCC Quarter 4 Awards

Holiday - No School

CVCC Awards Ceremony

FINAL 06/11/2020

CVCC Regional Advisory Board Meeting Dates for 2020-21

Inbox

Penny Chamberlin

8:02 AM (1 hour ago)

to Brigid, Bryan, David, Renee, Flor, Giuliano, Guy, Ian, Janna, Jeff, Judy, Laurie, Libby, Mark, Mark, MaryLynne, Megan, Michael, Penny, Scott, Sharon, Steven, Tim, CVCC-Everyone

Good morning,

The Regional Advisory Board was not able to act on our meeting schedule for next year due to school closure. We have met in the past on Mondays from 4:00-5:30 p.m.

I am proposing this same schedule for next year's quarterly meetings on the following dates:

Monday, October 5

Monday, December 7

Monday, February 8

Monday, May 3

We will plan to hold meetings in different program classrooms/shops and showcase that program as part of our meetings.

More details will come out in August when you receive an agenda and past meeting minutes along with other documents that need to be shared.

If you have concerns with the dates listed above, please do not hesitate to contact me.

Have a wonderful summer!

Stay safe and be well, Penny

- October 5
- December 7
- February 8
- May 3

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Penny Chamberlin, M.Ed. (she/her)

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*"Do the best you can until you know better. Then when you know better,
do better." ~ Maya Angelou*

Occupational AOE Data 2016 to 2026

	Threshold	# of occupations
High Wage	\$19.10/hr	285
In Demand	24 openings	257
High Skill		
Included	***	315
Excluded	***	204

*** Working interpretation for High Skill

Any occupation requiring education above high school

Any occupation requiring related work experience

Any occupation requiring long-term on-the-job training

OR

OR

Please double check list and criteria on the "highskill" tab

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

n/a - Wage data not available

1 - Occupational Employment and Wages, www.vtlmi.info/occupation.cfm#oes. Median wage is an hourly rate except for occupations normally paid an annual rate, as noted. + Wage is equal to or greater than \$100.00 per hour or \$208,000 per year.

Source: Vermont Department of Labor, Economic and Labor Market Information, Employment Projections and Occupational Employment and Wages Programs, in cooperation with the U.S. Bureau of Labor Statistics

released: Projections: July 2018, Wage: April 2019

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
29-1061	Anesthesiologists	100	100	0.0%	2	1	0	3	\$100.00+	Doctoral or professional degree	None	Internship/residency
29-1067	Surgeons	353	353	0.0%	5	4	0	9	\$100.00+	Doctoral or professional degree	None	Internship/residency
29-1064	Obstetricians and Gynecologists	171	172	0.1%	2	2	0	4	\$99.24	Doctoral or professional degree	None	Internship/residency
29-1063	Internists, General	282	282	0.0%	4	3	0	7	\$98.55	Doctoral or professional degree	None	Internship/residency
29-1062	Family and General Practitioners	382	384	0.1%	6	4	0	10	\$96.75	Doctoral or professional degree	None	Internship/residency
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	46	50	0.8%	2	4	0	6	\$88.37	Bachelor's degree	Less than 5 years	None
29-1066	Psychiatrists	234	234	0.0%	3	3	0	6	\$86.58	Doctoral or professional degree	None	Internship/residency
29-1065	Pediatricians, General	245	244	0.0%	4	3	0	7	\$74.83	Doctoral or professional degree	None	Internship/residency
29-1069	Physicians and Surgeons, All Other	1,202	1,239	0.3%	18	14	4	36	\$72.61	Doctoral or professional degree	None	Internship/residency
29-1041	Optometrists	116	120	0.3%	2	2	0	4	\$68.21	Doctoral or professional degree	None	None
29-1051	Pharmacists	504	520	0.3%	12	10	2	24	\$67.30	Doctoral or professional degree	None	None
11-9041	Architectural and Engineering Managers	266	268	0.1%	5	13	0	18	\$58.62	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	528	545	0.3%	12	33	2	47	\$54.43	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	351	372	0.6%	6	20	2	28	\$53.91	Bachelor's degree	5 years or more	None
11-1011	Chief Executives	533	496	-0.7%	15	21	-4	32	\$53.61	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	413	397	-0.4%	9	18	-2	25	\$52.57	Bachelor's degree	5 years or more	None
11-2021	Marketing Managers	418	455	0.9%	10	26	4	40	\$52.49	Bachelor's degree	5 years or more	None
15-1133	Software Developers, Systems Software	927	1,033	1.1%	13	48	11	72	\$51.75	Bachelor's degree	None	None
29-1071	Physician Assistants	320	410	2.5%	6	13	9	28	\$50.35	Master's degree	None	None
11-3061	Purchasing Managers	155	159	0.3%	5	8	0	13	\$49.58	Bachelor's degree	5 years or more	None
17-2072	Electronics Engineers, Except Computer	68	71	0.4%	2	3	0	5	\$49.43	Bachelor's degree	None	None
11-9199	Managers, All Other	2,665	2,660	0.0%	72	112	0	184	\$48.94	Bachelor's degree	Less than 5 years	None
11-3031	Financial Managers	803	910	1.3%	20	42	11	73	\$48.90	Bachelor's degree	5 years or more	None
29-1171	Nurse Practitioners	547	680	2.2%	12	18	13	43	\$48.87	Master's degree	None	None
17-2071	Electrical Engineers	502	535	0.6%	12	21	3	36	\$48.70	Bachelor's degree	None	None
29-1131	Veterinarians	310	340	0.9%	6	5	3	14	\$46.52	Doctoral or professional degree	None	None
11-2011	Advertising and Promotions Managers	49	48	-0.2%	1	4	0	5	\$46.47	Bachelor's degree	Less than 5 years	None
15-1132	Software Developers, Applications	1,103	1,384	2.3%	17	61	28	106	\$45.68	Bachelor's degree	None	None
11-3121	Human Resources Managers	226	234	0.3%	6	12	1	19	\$44.69	Bachelor's degree	5 years or more	None
11-9121	Natural Sciences Managers	75	81	0.8%	2	4	1	7	\$44.55	Bachelor's degree	5 years or more	None
29-1161	Nurse Midwives	49	54	1.0%	1	2	0	3	\$43.97	Master's degree	None	None
29-1124	Radiation Therapists	48	53	1.0%	1	1	0	2	\$43.75	Associate's degree	None	None
11-2031	Public Relations and Fundraising Managers	204	210	0.3%	5	12	1	18	\$43.00	Bachelor's degree	5 years or more	None

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
33-1012	First-Line Supervisors of Police and Detectives	182	186	0.2%	5	6	0	11	\$42.66	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
11-9021	Construction Managers	1,328	1,391	0.5%	31	60	6	97	\$42.06	Bachelor's degree	None	Moderate-term on-the-job training
23-1011	Lawyers	1,947	1,970	0.1%	39	42	2	83	\$41.98	Doctoral or professional degree	None	None
17-2141	Mechanical Engineers	493	508	0.3%	10	21	2	33	\$41.75	Bachelor's degree	None	None
11-9111	Medical and Health Services Managers	844	974	1.4%	25	44	13	82	\$41.65	Bachelor's degree	Less than 5 years	None
27-1011	Art Directors	399	386	-0.3%	19	12	-1	30	\$40.82	Bachelor's degree	5 years or more	None
49-9051	Electrical Power-Line Installers and Repairers	410	423	0.3%	10	22	1	33	\$40.55	High school diploma or equivalent	None	Long-term on-the-job training
17-2081	Environmental Engineers	110	118	0.7%	3	5	1	9	\$40.38	Bachelor's degree	None	None
33-3021	Detectives and Criminal Investigators	232	251	0.8%	6	8	2	16	\$39.99	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
11-3071	Transportation, Storage, and Distribution Managers	130	141	0.8%	3	7	1	11	\$39.94	High school diploma or equivalent	5 years or more	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	66	66	0.0%	2	3	0	5	\$39.88	Bachelor's degree	None	None
19-1012	Food Scientists and Technologists	67	66	-0.2%	2	5	0	7	\$39.58	Bachelor's degree	None	None
15-2031	Operations Research Analysts	59	72	2.0%	1	2	1	4	\$39.16	Bachelor's degree	None	None
11-3131	Training and Development Managers	47	49	0.4%	1	3	0	4	\$38.77	Bachelor's degree	5 years or more	None
15-1122	Information Security Analysts	82	87	0.6%	2	4	0	6	\$38.66	Bachelor's degree	Less than 5 years	None
29-2035	Magnetic Resonance Imaging Technologists	39	43	1.0%	1	1	0	2	\$38.53	Associate's degree	Less than 5 years	None
15-1143	Computer Network Architects	154	156	0.1%	2	8	0	10	\$38.00	Bachelor's degree	5 years or more	None
17-3023	Electrical and Electronics Engineering Technicians	319	302	-0.5%	10	16	-2	24	\$37.94	Associate's degree	None	None
11-9013	Farmers, Ranchers, and Other Agricultural Managers	5,835	6,123	0.5%	350	89	29	468	\$37.71	High school diploma or equivalent	5 years or more	None
27-1022	Fashion Designers	53	54	0.2%	2	3	0	5	\$37.71	Bachelor's degree	None	None
29-2032	Diagnostic Medical Sonographers	77	96	2.2%	2	2	2	6	\$37.59	Associate's degree	None	None
11-1021	General and Operations Managers	2,871	3,084	0.7%	62	178	21	261	\$37.35	Bachelor's degree	5 years or more	None
29-1122	Occupational Therapists	329	384	1.6%	7	10	6	23	\$37.32	Master's degree	None	None
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	625	652	0.4%	21	43	3	67	\$37.19	Bachelor's degree	None	Moderate-term on-the-job training
17-2199	Engineers, All Other	71	70	-0.1%	2	3	0	5	\$37.10	Bachelor's degree	None	None
19-3099	Social Scientists and Related Workers, All Other	41	45	0.9%	1	3	0	4	\$37.10	Bachelor's degree	None	None
17-3012	Electrical and Electronics Drafters	44	47	0.7%	1	2	0	3	\$37.05	Associate's degree	None	None
13-1111	Management Analysts	1,000	1,096	0.9%	34	54	10	98	\$36.79	Bachelor's degree	Less than 5 years	None
15-1121	Computer Systems Analysts	509	546	0.7%	10	24	4	38	\$36.72	Bachelor's degree	None	None
17-2112	Industrial Engineers	542	549	0.1%	12	22	1	35	\$36.66	Bachelor's degree	None	None
13-2061	Financial Examiners	54	57	0.5%	2	2	0	4	\$36.50	Bachelor's degree	None	Long-term on-the-job training
11-3011	Administrative Services Managers	425	456	0.7%	13	22	3	38	\$36.20	Bachelor's degree	Less than 5 years	None
29-1123	Physical Therapists	903	1,089	1.9%	19	21	19	59	\$36.01	Doctoral or professional degree	None	None
13-2051	Financial Analysts	177	189	0.7%	4	12	1	17	\$35.85	Bachelor's degree	None	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	1,821	1,779	-0.2%	60	100	-4	156	\$35.75	High school diploma or equivalent	Less than 5 years	None
11-9161	Emergency Management Directors	30	32	0.6%	1	1	0	2	\$35.62	Bachelor's degree	5 years or more	None
15-1131	Computer Programmers	484	430	-1.2%	8	20	-5	23	\$35.42	Bachelor's degree	None	None
13-1041	Compliance Officers	2,248	2,475	1.0%	66	119	23	208	\$35.12	Bachelor's degree	None	Moderate-term on-the-job training
15-1141	Database Administrators	236	251	0.6%	5	10	2	17	\$35.09	Bachelor's degree	None	None
41-3031	Securities, Commodities, and Financial Services Sales Agents	542	561	0.3%	14	36	2	52	\$35.05	Bachelor's degree	None	Moderate-term on-the-job training

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
19-3011	Economists	106	109	0.3%	2	6	0	8	\$34.85	Master's degree	None	None
17-2051	Civil Engineers	822	869	0.6%	18	42	5	65	\$34.64	Bachelor's degree	None	None
11-9039	Education Administrators, All Other	115	119	0.3%	3	5	0	8	\$34.50	Bachelor's degree	Less than 5 years	None
27-3042	Technical Writers	129	140	0.8%	4	8	1	13	\$34.39	Bachelor's degree	Less than 5 years	Short-term on-the-job training
15-1199	Computer Occupations, All Other	207	224	0.8%	4	10	2	16	\$34.37	Bachelor's degree	None	None
29-1127	Speech-Language Pathologists	418	429	0.3%	8	13	1	22	\$34.34	Master's degree	None	Internship/residency
29-1199	Health Diagnosing and Treating Practitioners, All Other	265	286	0.8%	11	3	2	16	\$34.33	Master's degree	None	None
15-1142	Network and Computer Systems Administrators	1,363	1,385	0.2%	19	65	2	86	\$34.32	Bachelor's degree	None	None
29-2021	Dental Hygienists	752	777	0.3%	28	17	2	47	\$34.15	Associate's degree	None	None
13-2031	Budget Analysts	88	94	0.7%	2	4	1	7	\$33.90	Bachelor's degree	None	None
13-2099	Financial Specialists, All Other	133	146	0.9%	4	7	1	12	\$33.43	Bachelor's degree	None	Moderate-term on-the- job training
21-1029	Social Workers, All Other	106	118	1.1%	4	7	1	12	\$33.36	Bachelor's degree	None	None
17-1011	Architects, Except Landscape and Naval	432	422	-0.2%	11	19	-1	29	\$33.21	Bachelor's degree	None	Internship/residency
39-4031	Morticians, Undertakers, and Funeral Directors	98	91	-0.7%	5	7	-1	11	\$33.06	Associate's degree	None	Long-term on-the-job training
13-2052	Personal Financial Advisors	671	718	0.7%	17	34	5	56	\$32.86	Bachelor's degree	None	Long-term on-the-job training
19-1023	Zoologists and Wildlife Biologists	122	131	0.7%	3	8	1	12	\$32.81	Bachelor's degree	None	None
11-9131	Postmasters and Mail Superintendents	124	104	-1.7%	3	5	-2	6	\$32.66	High school diploma or equivalent	Less than 5 years	Moderate-term on-the- job training
13-2011	Accountants and Auditors	3,713	3,923	0.6%	113	220	21	354	\$32.36	Bachelor's degree	None	None
49-9052	Telecommunications Line Installers and Repairers	160	134	-1.8%	4	11	-3	12	\$32.28	High school diploma or equivalent	None	Long-term on-the-job training
13-1081	Logisticians	158	171	0.8%	4	12	1	17	\$31.96	Bachelor's degree	None	None
29-9011	Occupational Health and Safety Specialists	125	128	0.2%	3	4	0	7	\$31.94	Bachelor's degree	None	None
15-2041	Statisticians	40	51	2.5%	1	2	1	4	\$31.71	Master's degree	None	None
29-1141	Registered Nurses	5,980	6,757	1.2%	182	138	78	398	\$31.61	Bachelor's degree	None	None
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	57	58	0.2%	2	2	0	4	\$31.60	Postsecondary non- degree award	Less than 5 years	Moderate-term on-the- job training
13-1031	Claims Adjusters, Examiners, and Investigators	259	246	-0.5%	6	14	-1	19	\$31.39	High school diploma or equivalent	None	Long-term on-the-job training
29-1126	Respiratory Therapists	215	259	1.9%	6	5	4	15	\$30.90	Associate's degree	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	216	228	0.5%	7	12	1	20	\$30.83	Bachelor's degree	None	Short-term on-the-job training
27-3043	Writers and Authors	907	887	-0.2%	38	38	-2	74	\$30.83	Bachelor's degree	None	Long-term on-the-job training
19-1032	Foresters	84	84	0.0%	2	5	0	7	\$30.82	Bachelor's degree	None	None
19-2031	Chemists	173	189	0.9%	5	11	2	18	\$30.81	Bachelor's degree	None	None
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	50	50	0.0%	1	1	0	2	\$30.81	Doctoral or professional degree	5 years or more	Short-term on-the-job training
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	1,168	1,216	0.4%	39	61	5	105	\$30.79	High school diploma or equivalent	Less than 5 years	None
13-1199	Business Operations Specialists, All Other	962	1,025	0.6%	31	57	6	94	\$30.78	Bachelor's degree	None	None
27-1021	Commercial and Industrial Designers	266	262	-0.2%	9	15	0	24	\$30.60	Bachelor's degree	None	None
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	1,892	1,989	0.5%	62	122	10	194	\$30.57	High school diploma or equivalent	5 years or more	None
17-3026	Industrial Engineering Technicians	1,245	1,163	-0.7%	38	63	-8	93	\$30.42	Associate's degree	None	None
19-2041	Environmental Scientists and Specialists, Including Health	476	509	0.7%	11	34	3	48	\$30.32	Bachelor's degree	None	None
13-1051	Cost Estimators	354	363	0.3%	11	23	1	35	\$30.27	Bachelor's degree	None	Moderate-term on-the- job training
13-2041	Credit Analysts	100	102	0.2%	2	6	0	8	\$30.03	Bachelor's degree	None	None

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
51-1011	First-Line Supervisors of Production and Operating Workers	1,852	1,808	-0.2%	58	117	-4	171	\$29.43	High school diploma or equivalent	Less than 5 years	None
13-1075	Labor Relations Specialists	140	120	-1.5%	4	8	-2	10	\$29.42	Bachelor's degree	Less than 5 years	None
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	196	202	0.3%	5	12	1	18	\$29.42	Postsecondary non-degree award	None	Long-term on-the-job training
29-2034	Radiologic Technologists	408	454	1.1%	11	11	5	27	\$29.40	Associate's degree	None	None
11-9151	Social and Community Service Managers	723	814	1.2%	25	40	9	74	\$29.39	Bachelor's degree	Less than 5 years	None
49-3011	Aircraft Mechanics and Service Technicians	211	223	0.6%	7	10	1	18	\$29.30	Postsecondary non-degree award	None	None
17-1021	Cartographers and Photogrammetrists	43	50	1.5%	1	2	1	4	\$29.27	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	49	52	0.6%	1	4	0	5	\$29.24	Bachelor's degree	None	None
19-3031	Clinical, Counseling, and School Psychologists	783	825	0.5%	20	31	4	55	\$29.13	Doctoral or professional degree	None	Internship/residency
51-8013	Power Plant Operators	107	108	0.1%	3	7	0	10	\$29.12	High school diploma or equivalent	None	Long-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	2,585	2,647	0.2%	86	175	6	267	\$28.76	High school diploma or equivalent	None	Moderate-term on-the-job training
45-2011	Agricultural Inspectors	37	38	0.3%	2	3	0	5	\$28.58	Bachelor's degree	None	Moderate-term on-the-job training
31-2011	Occupational Therapy Assistants	81	94	1.5%	4	6	1	11	\$28.26	Associate's degree	None	None
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	185	165	-1.1%	7	5	-2	10	\$28.26	High school diploma or equivalent	None	Short-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	73	75	0.3%	2	6	0	8	\$28.23	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2072	Loan Officers	615	652	0.6%	15	35	4	54	\$28.20	Bachelor's degree	None	Moderate-term on-the-job training
11-9081	Lodging Managers	583	690	1.7%	22	41	11	74	\$28.17	High school diploma or equivalent	Less than 5 years	None
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	147	152	0.3%	4	7	0	11	\$28.09	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2053	Insurance Underwriters	186	160	-1.5%	4	9	-3	10	\$28.08	Bachelor's degree	None	Moderate-term on-the-job training
13-1141	Compensation, Benefits, and Job Analysis Specialists	190	198	0.4%	5	10	1	16	\$28.00	Bachelor's degree	Less than 5 years	None
11-9141	Property, Real Estate, and Community Association Managers	1,253	1,332	0.6%	54	43	8	105	\$27.94	High school diploma or equivalent	Less than 5 years	None
19-3051	Urban and Regional Planners	182	196	0.7%	4	11	1	16	\$27.84	Master's degree	None	None
13-1151	Training and Development Specialists	693	737	0.6%	22	46	4	72	\$27.80	Bachelor's degree	Less than 5 years	None
13-1161	Market Research Analysts and Marketing Specialists	1,694	2,017	1.8%	49	127	32	208	\$27.64	Bachelor's degree	None	None
29-1031	Dietitians and Nutritionists	243	264	0.8%	8	7	2	17	\$27.64	Bachelor's degree	None	Internship/residency
47-4011	Construction and Building Inspectors	203	224	1.0%	10	12	2	24	\$27.39	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
33-2021	Fire Inspectors and Investigators	33	38	1.4%	2	2	0	4	\$27.25	Postsecondary non-degree award	5 years or more	Moderate-term on-the-job training
19-1022	Microbiologists	40	42	0.5%	1	3	0	4	\$27.19	Bachelor's degree	None	None
17-3029	Engineering Technicians, Except Drafters, All Other	35	34	-0.3%	1	2	0	3	\$27.13	Associate's degree	None	None
41-9022	Real Estate Sales Agents	637	630	-0.1%	32	25	-1	56	\$27.11	High school diploma or equivalent	None	Moderate-term on-the-job training
43-1011	First-Line Supervisors of Office and Administrative Support Workers	2,035	2,040	0.0%	79	118	0	197	\$27.06	High school diploma or equivalent	Less than 5 years	None
21-1022	Healthcare Social Workers	450	528	1.6%	18	31	8	57	\$27.03	Master's degree	None	Internship/residency
13-1071	Human Resources Specialists	1,113	1,170	0.5%	33	75	6	114	\$26.90	Bachelor's degree	None	None
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	151	136	-1.0%	9	7	-2	14	\$26.80	Bachelor's degree	None	None

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	95	99	0.4%	3	7	0	10	\$26.78	Postsecondary non-degree award	None	Moderate-term on-the-job training
25-4012	Curators	51	56	0.9%	2	3	0	5	\$26.68	Master's degree	None	None
29-2011	Medical and Clinical Laboratory Technologists	180	200	1.1%	6	6	2	14	\$26.68	Bachelor's degree	None	None
29-2012	Medical and Clinical Laboratory Technicians	249	276	1.0%	8	8	3	19	\$26.68	Associate's degree	None	None
39-5094	Skincare Specialists	272	280	0.3%	17	14	1	32	\$26.68	Postsecondary non-degree award	None	None
21-1091	Health Educators	214	229	0.7%	10	16	2	28	\$26.61	Bachelor's degree	None	None
31-2021	Physical Therapist Assistants	158	191	1.9%	8	13	3	24	\$26.61	Associate's degree	None	None
27-2041	Music Directors and Composers	117	110	-0.6%	6	4	-1	9	\$26.52	Bachelor's degree	Less than 5 years	None
15-1134	Web Developers	861	936	0.8%	17	46	8	71	\$26.43	Associate's degree	None	None
25-1194	Vocational Education Teachers, Postsecondary	108	99	-0.9%	4	4	-1	7	\$26.40	Bachelor's degree	Less than 5 years	None
53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	437	453	0.4%	14	31	2	47	\$26.23	High school diploma or equivalent	Less than 5 years	None
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	610	626	0.3%	20	42	2	64	\$26.23	High school diploma or equivalent	Less than 5 years	None
51-4111	Tool and Die Makers	126	110	-1.3%	5	6	-2	9	\$26.19	Postsecondary non-degree award	None	Long-term on-the-job training
43-4011	Brokerage Clerks	52	55	0.6%	1	4	0	5	\$26.07	High school diploma or equivalent	None	Moderate-term on-the-job training
23-2099	Legal Support Workers, All Other	98	107	0.9%	4	5	1	10	\$25.99	Associate's degree	None	None
13-2081	Tax Examiners and Collectors, and Revenue Agents	108	114	0.5%	3	4	1	8	\$25.86	Bachelor's degree	None	Moderate-term on-the-job training
25-9099	Education, Training, and Library Workers, All Other	90	92	0.2%	4	4	0	8	\$25.86	Bachelor's degree	None	None
43-4061	Eligibility Interviewers, Government Programs	65	69	0.6%	3	3	0	6	\$25.77	High school diploma or equivalent	None	Moderate-term on-the-job training
11-9051	Food Service Managers	886	894	0.1%	28	66	1	95	\$25.72	High school diploma or equivalent	Less than 5 years	None
43-6011	Executive Secretaries and Executive Administrative Assistants	2,182	1,748	-2.2%	106	103	-43	166	\$25.72	High school diploma or equivalent	Less than 5 years	None
47-2021	Brickmasons and Blockmasons	168	168	0.0%	5	9	0	14	\$25.69	High school diploma or equivalent	None	Apprenticeship
17-3019	Drafters, All Other	45	43	-0.5%	1	2	0	3	\$25.40	Associate's degree	None	None
33-1099	First-Line Supervisors of Protective Service Workers, All Other	121	122	0.1%	6	6	0	12	\$25.34	High school diploma or equivalent	Less than 5 years	None
13-1021	Buyers and Purchasing Agents, Farm Products	117	110	-0.6%	5	8	-1	12	\$25.26	Bachelor's degree	None	Moderate-term on-the-job training
13-1022	Wholesale and Retail Buyers, Except Farm Products	547	508	-0.7%	21	38	-4	55	\$25.26	Bachelor's degree	None	Moderate-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	557	520	-0.7%	16	30	-4	42	\$25.26	Bachelor's degree	None	Moderate-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	1,321	1,344	0.2%	32	52	2	86	\$25.18	High school diploma or equivalent	None	Moderate-term on-the-job training
17-1022	Surveyors	107	111	0.4%	3	4	0	7	\$25.10	Bachelor's degree	None	Internship/residency
27-2012	Producers and Directors	457	483	0.6%	12	29	3	44	\$25.10	Bachelor's degree	Less than 5 years	None
47-2152	Plumbers, Pipefitters, and Steamfitters	885	935	0.6%	33	61	5	99	\$25.02	High school diploma or equivalent	None	Apprenticeship
49-9041	Industrial Machinery Mechanics	622	658	0.6%	22	33	4	59	\$25.02	High school diploma or equivalent	None	Long-term on-the-job training
17-3031	Surveying and Mapping Technicians	153	157	0.3%	5	11	0	16	\$25.01	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3099	Sales Representatives, Services, All Other	1,104	1,150	0.4%	36	97	5	138	\$25.00	High school diploma or equivalent	None	Moderate-term on-the-job training

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
17-3022	Civil Engineering Technicians	389	413	0.6%	13	21	2	36	\$24.82	Associate's degree	None	None
27-3031	Public Relations Specialists	1,103	1,150	0.4%	32	76	5	113	\$24.80	Bachelor's degree	None	None
43-5041	Meter Readers, Utilities	63	58	-0.8%	2	2	0	4	\$24.78	High school diploma or equivalent	None	Short-term on-the-job training
19-4031	Chemical Technicians	72	73	0.1%	2	4	0	6	\$24.68	Associate's degree	None	Moderate-term on-the- job training
21-2011	Clergy	1,145	1,151	0.1%	53	70	1	124	\$24.67	Bachelor's degree	None	Moderate-term on-the- job training
25-9031	Instructional Coordinators	615	633	0.3%	30	26	2	58	\$24.62	Master's degree	5 years or more	None
17-1012	Landscape Architects	224	226	0.1%	6	10	0	16	\$24.58	Bachelor's degree	None	Internship/residency
13-2021	Appraisers and Assessors of Real Estate	242	258	0.6%	9	7	2	18	\$24.52	Bachelor's degree	None	Long-term on-the-job training
19-1031	Conservation Scientists	114	122	0.7%	2	7	1	10	\$24.48	Bachelor's degree	None	None
47-2111	Electricians	1,353	1,371	0.1%	47	101	2	150	\$24.45	High school diploma or equivalent	None	Apprenticeship
53-7021	Crane and Tower Operators	93	92	-0.1%	3	6	0	9	\$24.35	High school diploma or equivalent	Less than 5 years	Moderate-term on-the- job training
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	814	858	0.5%	27	50	4	81	\$24.19	High school diploma or equivalent	Less than 5 years	None
49-9043	Maintenance Workers, Machinery	76	83	0.9%	3	5	1	9	\$24.17	High school diploma or equivalent	None	Long-term on-the-job training
21-1021	Child, Family, and School Social Workers	1,609	1,777	1.0%	61	108	17	186	\$23.90	Bachelor's degree	None	None
49-2098	Security and Fire Alarm Systems Installers	74	84	1.3%	3	6	1	10	\$23.86	High school diploma or equivalent	None	Moderate-term on-the- job training
23-2011	Paralegals and Legal Assistants	705	764	0.8%	24	49	6	79	\$23.85	Associate's degree	None	None
13-2082	Tax Preparers	370	377	0.2%	20	18	1	39	\$23.82	High school diploma or equivalent	None	Moderate-term on-the- job training
17-3025	Environmental Engineering Technicians	91	102	1.1%	3	5	1	9	\$23.80	Associate's degree	None	None
13-1131	Fundraisers	466	497	0.6%	15	32	3	50	\$23.77	Bachelor's degree	None	None
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1,095	1,117	0.2%	30	74	2	106	\$23.72	Postsecondary non- degree award	None	Long-term on-the-job training
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	770	643	-1.8%	23	50	-13	60	\$23.71	Postsecondary non- degree award	None	Moderate-term on-the- job training
17-3027	Mechanical Engineering Technicians	41	40	-0.2%	1	2	0	3	\$23.58	Associate's degree	None	None
17-3013	Mechanical Drafters	91	86	-0.6%	3	5	0	8	\$23.54	Associate's degree	None	None
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	127	120	-0.6%	5	8	-1	12	\$23.50	High school diploma or equivalent	None	Long-term on-the-job training
15-1151	Computer User Support Specialists	1,243	1,339	0.7%	26	66	10	102	\$23.43	Some college, no degree	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	1,375	1,419	0.3%	49	48	4	101	\$23.40	Postsecondary non- degree award	None	None
21-1012	Educational, Guidance, School, and Vocational Counselors	805	840	0.4%	30	54	4	88	\$23.39	Master's degree	None	None
27-1025	Interior Designers	99	95	-0.4%	3	6	0	9	\$23.36	Bachelor's degree	None	None
49-9062	Medical Equipment Repairers	74	70	-0.6%	3	3	0	6	\$23.21	Associate's degree	None	Moderate-term on-the- job training
11-9031	Education Administrators, Preschool and Childcare Center/Program	371	377	0.2%	10	17	1	28	\$23.13	Bachelor's degree	Less than 5 years	None
51-8031	Water and Wastewater Treatment Plant and System Operators	354	359	0.1%	10	19	0	29	\$23.08	High school diploma or equivalent	None	Long-term on-the-job training
49-9044	Millwrights	96	98	0.2%	3	6	0	9	\$23.05	High school diploma or equivalent	None	Apprenticeship
15-1152	Computer Network Support Specialists	355	383	0.8%	8	19	3	30	\$22.99	Associate's degree	None	None
43-5061	Production, Planning, and Expediting Clerks	451	458	0.2%	16	30	1	47	\$22.72	High school diploma or equivalent	None	Moderate-term on-the- job training

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
43-6012	Legal Secretaries	358	278	-2.5%	17	17	-8	26	\$22.58	High school diploma or equivalent	None	Moderate-term on-the-job training
25-4011	Archivists	39	42	0.7%	2	2	0	4	\$22.57	Master's degree	None	None
27-1024	Graphic Designers	876	880	0.0%	31	49	0	80	\$22.52	Bachelor's degree	None	None
29-2031	Cardiovascular Technologists and Technicians	48	54	1.2%	1	1	1	3	\$22.38	Associate's degree	None	None
43-5052	Postal Service Mail Carriers	737	690	-0.7%	28	20	-5	43	\$22.37	High school diploma or equivalent	None	Short-term on-the-job training
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	87	86	-0.1%	3	4	0	7	\$22.35	No formal educational credential	None	Moderate-term on-the-job training
27-3041	Editors	492	461	-0.6%	16	30	-3	43	\$22.28	Bachelor's degree	Less than 5 years	None
41-3011	Advertising Sales Agents	316	285	-1.0%	11	26	-3	34	\$22.26	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	190	176	-0.8%	7	14	-1	20	\$22.19	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2081	Opticians, Dispensing	110	115	0.4%	4	4	0	8	\$22.18	High school diploma or equivalent	None	Long-term on-the-job training
43-5051	Postal Service Clerks	429	401	-0.7%	21	11	-3	29	\$21.88	High school diploma or equivalent	None	Short-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	775	830	0.7%	25	46	6	77	\$21.87	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	222	236	0.6%	7	14	1	22	\$21.85	High school diploma or equivalent	None	Long-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	92	74	-2.2%	3	6	-2	7	\$21.85	High school diploma or equivalent	None	Moderate-term on-the-job training
41-1011	First-Line Supervisors of Retail Sales Workers	4,754	4,619	-0.3%	173	315	-14	474	\$21.77	High school diploma or equivalent	Less than 5 years	None
13-1121	Meeting, Convention, and Event Planners	389	432	1.1%	16	31	4	51	\$21.76	Bachelor's degree	None	None
43-5031	Police, Fire, and Ambulance Dispatchers	287	286	0.0%	10	15	0	25	\$21.76	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	326	306	-0.6%	10	18	-2	26	\$21.71	No formal educational credential	None	Moderate-term on-the-job training
19-4099	Life, Physical, and Social Science Technicians, All Other	64	69	0.8%	3	5	0	8	\$21.67	Associate's degree	None	None
51-4199	Metal Workers and Plastic Workers, All Other	136	127	-0.7%	5	9	-1	13	\$21.67	High school diploma or equivalent	None	Moderate-term on-the-job training
17-3011	Architectural and Civil Drafters	201	199	-0.1%	6	11	0	17	\$21.55	Associate's degree	None	None
29-2099	Health Technologists and Technicians, All Other	185	209	1.2%	6	6	2	14	\$21.55	Postsecondary non-degree award	None	None
51-9122	Painters, Transportation Equipment	35	35	0.0%	1	3	0	4	\$21.49	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2022	Stonemasons	165	166	0.1%	5	9	0	14	\$21.46	High school diploma or equivalent	None	Apprenticeship
31-9091	Dental Assistants	515	532	0.3%	27	30	2	59	\$21.17	Postsecondary non-degree award	None	None
51-8021	Stationary Engineers and Boiler Operators	57	54	-0.5%	2	4	0	6	\$21.02	High school diploma or equivalent	None	Long-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	337	322	-0.5%	14	18	-2	30	\$20.98	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4199	Information and Record Clerks, All Other	206	220	0.7%	10	13	1	24	\$20.88	High school diploma or equivalent	None	Short-term on-the-job training
43-9199	Office and Administrative Support Workers, All Other	317	323	0.2%	14	20	1	35	\$20.88	High school diploma or equivalent	None	Short-term on-the-job training
39-1021	First-Line Supervisors of Personal Service Workers	962	1,021	0.6%	48	45	6	99	\$20.83	High school diploma or equivalent	Less than 5 years	None

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
27-4021	Photographers	870	842	-0.3%	37	30	-3	64	\$20.78	High school diploma or equivalent	None	Long-term on-the-job training
29-2057	Ophthalmic Medical Technicians	215	224	0.4%	7	10	1	18	\$20.76	Postsecondary non-degree award	None	None
53-3032	Heavy and Tractor-Trailer Truck Drivers	4,351	4,294	-0.1%	183	272	-6	449	\$20.73	Postsecondary non-degree award	None	Short-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	74	64	-1.4%	2	6	-1	7	\$20.72	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	381	385	0.1%	13	26	0	39	\$20.64	High school diploma or equivalent	None	Apprenticeship
47-2041	Carpet Installers	136	134	-0.1%	4	7	0	11	\$20.63	No formal educational credential	None	Short-term on-the-job training
25-3021	Self-Enrichment Education Teachers	1,067	1,148	0.7%	68	52	8	128	\$20.59	High school diploma or equivalent	Less than 5 years	None
35-1011	Chefs and Head Cooks	463	481	0.4%	15	43	2	60	\$20.56	High school diploma or equivalent	5 years or more	None
47-2221	Structural Iron and Steel Workers	62	65	0.5%	2	5	0	7	\$20.55	High school diploma or equivalent	None	Apprenticeship
47-2031	Carpenters	6,970	7,038	0.1%	241	389	7	637	\$20.54	High school diploma or equivalent	None	Apprenticeship
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	113	112	-0.1%	6	3	0	9	\$20.52	Bachelor's degree	None	Long-term on-the-job training
43-4031	Court, Municipal, and License Clerks	756	956	2.4%	38	34	20	92	\$20.51	High school diploma or equivalent	None	Moderate-term on-the-job training
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	304	325	0.7%	10	31	2	43	\$20.35	High school diploma or equivalent	Less than 5 years	None
43-3061	Procurement Clerks	135	129	-0.5%	6	9	-1	14	\$20.28	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	1,548	1,554	0.0%	66	89	1	156	\$20.25	High school diploma or equivalent	None	Moderate-term on-the-job training
25-4021	Librarians	737	723	-0.2%	40	27	-1	66	\$20.24	Master's degree	None	None
43-9031	Desktop Publishers	62	54	-1.4%	2	4	-1	5	\$20.23	Associate's degree	None	Short-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	1,194	1,238	0.4%	46	85	4	135	\$20.20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5111	Prepress Technicians and Workers	58	50	-1.5%	2	4	-1	5	\$20.20	Postsecondary non-degree award	None	None
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	230	240	0.4%	9	13	1	23	\$20.18	High school diploma or equivalent	None	Short-term on-the-job training
51-4041	Machinists	622	580	-0.7%	21	39	-4	56	\$20.04	High school diploma or equivalent	None	Long-term on-the-job training
33-9093	Transportation Security Screeners	81	81	0.0%	4	3	0	7	\$19.90	High school diploma or equivalent	None	Short-term on-the-job training
19-4021	Biological Technicians	114	125	0.9%	3	8	1	12	\$19.89	Bachelor's degree	None	None
31-9099	Healthcare Support Workers, All Other	127	140	1.0%	8	8	1	17	\$19.88	High school diploma or equivalent	None	None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	1,922	2,009	0.4%	88	188	9	285	\$19.88	High school diploma or equivalent	Less than 5 years	None
39-9031	Fitness Trainers and Aerobics Instructors	1,155	1,232	0.6%	78	119	8	205	\$19.85	High school diploma or equivalent	None	Short-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	447	499	1.1%	37	19	5	61	\$19.83	High school diploma or equivalent	None	Moderate-term on-the-job training

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
43-3031	Bookkeeping, Accounting, and Auditing Clerks	6,075	5,857	-0.4%	369	287	-22	634	\$19.82	Some college, no degree	None	Moderate-term on-the-job training
49-3021	Automotive Body and Related Repairers	730	755	0.3%	26	44	2	72	\$19.82	High school diploma or equivalent	None	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	393	384	-0.2%	10	30	-1	39	\$19.63	High school diploma or equivalent	None	Moderate-term on-the-job training
27-4032	Film and Video Editors	35	38	0.8%	1	2	0	3	\$19.58	Bachelor's degree	None	None
41-3041	Travel Agents	228	195	-1.6%	11	13	-3	21	\$19.56	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	269	278	0.3%	10	19	1	30	\$19.47	No formal educational credential	None	Moderate-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	340	365	0.7%	19	22	2	43	\$19.44	High school diploma or equivalent	None	Short-term on-the-job training
43-3011	Bill and Account Collectors	405	385	-0.5%	15	26	-2	39	\$19.43	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	364	345	-0.5%	12	19	-2	29	\$19.38	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9011	Computer Operators	61	47	-2.6%	2	3	-1	4	\$19.33	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	594	606	0.2%	26	34	1	61	\$19.30	High school diploma or equivalent	None	Moderate-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	209	208	0.0%	8	15	0	23	\$19.29	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
49-9031	Home Appliance Repairers	145	133	-0.9%	7	6	-1	12	\$19.20	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	2,636	2,705	0.3%	84	161	7	252	\$19.18	Postsecondary non-degree award	None	Short-term on-the-job training
31-9094	Medical Transcriptionists	179	166	-0.8%	12	9	-1	20	\$19.17	Postsecondary non-degree award	None	None
00-0000	Total, All Occupations	371,407	381,799	0.3%	17,696	22,793	1,039	41,528	\$19.10			

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

n/a - Wage data not available

1 - Occupational Employment and Wages, www.vtلمي.info/occupation.cfm#oes. Median wage is an hourly rate except for occupations normally paid an annual rate, as noted. + Wage is equal to or greater than \$100.00 per hour or \$208,000 per year.

Source: Vermont Department of Labor, Economic and Labor Market Information, Employment Projections and Occupational Employment and Wages Programs, in cooperation with the U.S. Bureau of Labor Statistics

released: Projections: July 2018, Wage: April 2019

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
41-2011	Cashiers	9,934	9,558	-0.4%	915	893	-38	1,770	\$11.57	No formal educational credential	None	Short-term on-the-job training
39-9021	Personal Care Aides	7,539	9,777	2.6%	691	520	224	1,435	\$13.24	High school diploma or equivalent	None	Short-term on-the-job training
41-2031	Retail Salespersons	9,834	9,612	-0.2%	616	772	-22	1,366	\$12.72	No formal educational credential	None	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	6,291	6,939	1.0%	586	613	65	1,264	\$11.91	No formal educational credential	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	5,628	5,952	0.6%	429	657	32	1,118	\$15.33	No formal educational credential	None	Short-term on-the-job training
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	5,517	5,781	0.5%	368	355	26	749	\$14.15	No formal educational credential	None	Short-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	4,995	5,321	0.6%	241	368	33	642	\$15.07	No formal educational credential	None	Short-term on-the-job training
47-2031	Carpenters	6,970	7,038	0.1%	241	389	7	637	\$20.54	High school diploma or equivalent	None	Apprenticeship
43-3031	Bookkeeping, Accounting, and Auditing Clerks	6,075	5,857	-0.4%	369	287	-22	634	\$19.82	Some college, no degree	None	Moderate-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	6,059	5,444	-1.1%	310	301	-62	549	\$17.41	High school diploma or equivalent	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	4,007	4,161	0.4%	302	228	15	545	\$12.17	No formal educational credential	None	Short-term on-the-job training
41-1011	First-Line Supervisors of Retail Sales Workers	4,754	4,619	-0.3%	173	315	-14	474	\$21.77	High school diploma or equivalent	Less than 5 years	None
25-9041	Teacher Assistants	4,863	4,739	-0.3%	264	219	-12	471	\$31,700/yr	Some college, no degree	None	None
11-9013	Farmers, Ranchers, and Other Agricultural Managers	5,835	6,123	0.5%	350	89	29	468	\$37.71	High school diploma or equivalent	5 years or more	None
43-4051	Customer Service Representatives	3,503	3,567	0.2%	181	265	6	452	\$17.17	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	4,351	4,294	-0.1%	183	272	-6	449	\$20.73	Postsecondary non-degree award	None	Short-term on-the-job training
31-1014	Nursing Assistants	3,515	3,686	0.5%	219	182	17	418	\$14.38	Postsecondary non-degree award	None	None
39-9011	Childcare Workers	2,905	2,908	0.0%	237	180	0	417	\$13.27	High school diploma or equivalent	None	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	2,889	2,991	0.3%	146	251	10	407	\$13.45	No formal educational credential	None	Short-term on-the-job training
25-3098	Substitute Teachers	3,810	3,752	-0.2%	230	177	-6	401	\$13.45	High school diploma or equivalent	None	None
29-1141	Registered Nurses	5,980	6,757	1.2%	182	138	78	398	\$31.61	Bachelor's degree	None	None
35-2014	Cooks, Restaurant	2,553	2,736	0.7%	155	212	18	385	\$14.72	No formal educational credential	Less than 5 years	Moderate-term on-the-job training
13-2011	Accountants and Auditors	3,713	3,923	0.6%	113	220	21	354	\$32.36	Bachelor's degree	None	None

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
43-5081	Stock Clerks and Order Fillers	2,702	2,784	0.3%	150	195	8	353	\$13.35	High school diploma or equivalent	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	2,557	2,823	1.0%	120	192	27	339	\$16.41	High school diploma or equivalent	None	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	2,556	2,584	0.1%	160	171	3	334	\$15.72	High school diploma or equivalent	None	Short-term on-the-job training
35-3011	Bartenders	1,973	1,988	0.1%	95	227	2	324	\$17.31	No formal educational credential	None	Short-term on-the-job training
49-9071	Maintenance and Repair Workers, General	2,874	3,086	0.7%	121	166	21	308	\$18.75	High school diploma or equivalent	None	Moderate-term on-the-job training
35-2021	Food Preparation Workers	1,782	1,846	0.4%	145	157	6	308	\$12.42	No formal educational credential	None	Short-term on-the-job training
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	1,922	2,009	0.4%	88	188	9	285	\$19.88	High school diploma or equivalent	Less than 5 years	None
53-3033	Light Truck or Delivery Services Drivers	2,658	2,680	0.1%	113	168	2	283	\$15.43	High school diploma or equivalent	None	Short-term on-the-job training
47-2061	Construction Laborers	2,634	2,658	0.1%	92	174	2	268	\$16.89	No formal educational credential	None	Short-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	2,585	2,647	0.2%	86	175	6	267	\$28.76	High school diploma or equivalent	None	Moderate-term on-the-job training
11-1021	General and Operations Managers	2,871	3,084	0.7%	62	178	21	261	\$37.35	Bachelor's degree	5 years or more	None
27-2022	Coaches and Scouts	1,875	1,949	0.4%	107	144	7	258	\$29,200/yr	Bachelor's degree	None	None
39-9032	Recreation Workers	1,418	1,528	0.7%	96	147	11	254	\$12.91	High school diploma or equivalent	None	Short-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	2,636	2,705	0.3%	84	161	7	252	\$19.18	Postsecondary non-degree award	None	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,142	1,146	0.0%	137	108	0	245	\$11.54	No formal educational credential	None	Short-term on-the-job training
25-2021	Elementary School Teachers, Except Special Education	3,462	3,330	-0.4%	112	126	-13	225	\$59,100/yr	Bachelor's degree	None	None
35-9021	Dishwashers	1,437	1,443	0.0%	106	115	1	222	\$11.95	No formal educational credential	None	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	1,886	2,105	1.1%	118	81	22	221	\$12.29	No formal educational credential	None	Short-term on-the-job training
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,799	1,848	0.3%	122	91	5	218	\$13.15	Postsecondary non-degree award	None	None
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	1,151	1,361	1.7%	46	143	21	210	\$13.57	No formal educational credential	None	Short-term on-the-job training
13-1041	Compliance Officers	2,248	2,475	1.0%	66	119	23	208	\$35.12	Bachelor's degree	None	Moderate-term on-the-job training
13-1161	Market Research Analysts and Marketing Specialists	1,694	2,017	1.8%	49	127	32	208	\$27.64	Bachelor's degree	None	None
39-9031	Fitness Trainers and Aerobics Instructors	1,155	1,232	0.6%	78	119	8	205	\$19.85	High school diploma or equivalent	None	Short-term on-the-job training
43-1011	First-Line Supervisors of Office and Administrative Support Workers	2,035	2,040	0.0%	79	118	0	197	\$27.06	High school diploma or equivalent	Less than 5 years	None
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	1,892	1,989	0.5%	62	122	10	194	\$30.57	High school diploma or equivalent	5 years or more	None
43-9061	Office Clerks, General	1,755	1,665	-0.5%	100	98	-9	189	\$16.37	High school diploma or equivalent	None	Short-term on-the-job training
21-1021	Child, Family, and School Social Workers	1,609	1,777	1.0%	61	108	17	186	\$23.90	Bachelor's degree	None	None
41-3021	Insurance Sales Agents	1,951	1,947	0.0%	79	105	0	184	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
11-9199	Managers, All Other	2,665	2,660	0.0%	72	112	0	184	\$48.94	Bachelor's degree	Less than 5 years	None

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	1,072	1,092	0.2%	96	86	2	184	\$12.16	No formal educational credential	None	Short-term on-the-job training
53-3022	Bus Drivers, School or Special Client	1,392	1,436	0.3%	111	58	4	173	\$17.94	High school diploma or equivalent	None	Short-term on-the-job training
51-1011	First-Line Supervisors of Production and Operating Workers	1,852	1,808	-0.2%	58	117	-4	171	\$29.43	High school diploma or equivalent	Less than 5 years	None
43-6011	Executive Secretaries and Executive Administrative Assistants	2,182	1,748	-2.2%	106	103	-43	166	\$25.72	High school diploma or equivalent	Less than 5 years	None
43-5071	Shipping, Receiving, and Traffic Clerks	1,742	1,698	-0.3%	67	102	-4	165	\$16.27	High school diploma or equivalent	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	1,128	1,176	0.4%	68	92	5	165	\$14.74	No formal educational credential	None	Short-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	1,410	1,429	0.1%	67	94	2	163	\$15.42	High school diploma or equivalent	None	Moderate-term on-the-job training
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	2,440	2,360	-0.3%	74	90	-8	156	\$63,890/yr	Bachelor's degree	None	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	1,821	1,779	-0.2%	60	100	-4	156	\$35.75	High school diploma or equivalent	Less than 5 years	None
47-4051	Highway Maintenance Workers	1,548	1,554	0.0%	66	89	1	156	\$20.25	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	940	1,004	0.7%	54	96	6	156	\$13.09	High school diploma or equivalent	None	Short-term on-the-job training
47-2141	Painters, Construction and Maintenance	1,922	1,868	-0.3%	65	94	-5	154	\$18.47	No formal educational credential	None	Moderate-term on-the-job training
33-9032	Security Guards	1,124	1,151	0.2%	68	80	3	151	n/a	High school diploma or equivalent	None	Short-term on-the-job training
47-2111	Electricians	1,353	1,371	0.1%	47	101	2	150	\$24.45	High school diploma or equivalent	None	Apprenticeship
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	787	936	1.7%	32	98	15	145	\$15.56	No formal educational credential	None	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	615	636	0.3%	72	68	2	142	\$11.74	No formal educational credential	None	Short-term on-the-job training
41-3099	Sales Representatives, Services, All Other	1,104	1,150	0.4%	36	97	5	138	\$25.00	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	1,194	1,238	0.4%	46	85	4	135	\$20.20	High school diploma or equivalent	None	Moderate-term on-the-job training
21-1023	Mental Health and Substance Abuse Social Workers	1,086	1,229	1.2%	42	74	14	130	\$18.44	Master's degree	None	Internship/residency
25-3021	Self-Enrichment Education Teachers	1,067	1,148	0.7%	68	52	8	128	\$20.59	High school diploma or equivalent	Less than 5 years	None
43-6013	Medical Secretaries	994	1,126	1.3%	57	56	13	126	\$18.38	High school diploma or equivalent	None	Moderate-term on-the-job training
39-2021	Nonfarm Animal Caretakers	722	828	1.4%	53	62	11	126	\$11.91	High school diploma or equivalent	None	Short-term on-the-job training
21-2011	Clergy	1,145	1,151	0.1%	53	70	1	124	\$24.67	Bachelor's degree	None	Moderate-term on-the-job training
31-9011	Massage Therapists	1,085	1,160	0.7%	73	40	8	121	\$17.58	Postsecondary non-degree award	None	None
41-2021	Counter and Rental Clerks	931	946	0.2%	49	69	2	120	\$15.63	No formal educational credential	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	764	795	0.4%	53	64	3	120	\$13.15	No formal educational credential	None	Short-term on-the-job training
43-3021	Billing and Posting Clerks	1,087	1,176	0.8%	48	62	9	119	\$18.61	High school diploma or equivalent	None	Moderate-term on-the-job training

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
13-1071	Human Resources Specialists	1,113	1,170	0.5%	33	75	6	114	\$26.90	Bachelor's degree	None	None
25-2011	Preschool Teachers, Except Special Education	1,144	1,159	0.1%	50	62	2	114	\$15.64	Associate's degree	None	None
27-3031	Public Relations Specialists	1,103	1,150	0.4%	32	76	5	113	\$24.80	Bachelor's degree	None	None
51-2092	Team Assemblers	1,372	1,087	-2.3%	52	89	-28	113	\$14.36	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3011	Bakers	756	788	0.4%	50	58	3	111	\$14.49	No formal educational credential	None	Long-term on-the-job training
43-3071	Tellers	1,121	985	-1.3%	54	68	-14	108	\$14.51	High school diploma or equivalent	None	Short-term on-the-job training
21-1014	Mental Health Counselors	849	978	1.4%	34	60	13	107	\$19.09	Master's degree	None	Internship/residency
15-1132	Software Developers, Applications	1,103	1,384	2.3%	17	61	28	106	\$45.68	Bachelor's degree	None	None
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1,095	1,117	0.2%	30	74	2	106	\$23.72	Postsecondary non-degree award	None	Long-term on-the-job training
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	1,168	1,216	0.4%	39	61	5	105	\$30.79	High school diploma or equivalent	Less than 5 years	None
11-9141	Property, Real Estate, and Community Association Managers	1,253	1,332	0.6%	54	43	8	105	\$27.94	High school diploma or equivalent	Less than 5 years	None
15-1151	Computer User Support Specialists	1,243	1,339	0.7%	26	66	10	102	\$23.43	Some college, no degree	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	1,375	1,419	0.3%	49	48	4	101	\$23.40	Postsecondary non-degree award	None	None
53-7081	Refuse and Recyclable Material Collectors	719	811	1.2%	35	56	9	100	\$16.27	No formal educational credential	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	408	443	0.8%	45	51	4	100	\$11.75	No formal educational credential	None	Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	885	935	0.6%	33	61	5	99	\$25.02	High school diploma or equivalent	None	Apprenticeship
39-1021	First-Line Supervisors of Personal Service Workers	962	1,021	0.6%	48	45	6	99	\$20.83	High school diploma or equivalent	Less than 5 years	None
51-9198	Helpers--Production Workers	532	646	2.0%	32	56	11	99	\$13.96	High school diploma or equivalent	None	Short-term on-the-job training
13-1111	Management Analysts	1,000	1,096	0.9%	34	54	10	98	\$36.79	Bachelor's degree	Less than 5 years	None
53-7051	Industrial Truck and Tractor Operators	860	887	0.3%	30	65	3	98	\$18.26	No formal educational credential	None	Short-term on-the-job training
11-9021	Construction Managers	1,328	1,391	0.5%	31	60	6	97	\$42.06	Bachelor's degree	None	Moderate-term on-the-job training
11-9051	Food Service Managers	886	894	0.1%	28	66	1	95	\$25.72	High school diploma or equivalent	Less than 5 years	None
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	364	392	0.7%	52	40	3	95	\$11.70	No formal educational credential	None	Short-term on-the-job training
13-1199	Business Operations Specialists, All Other	962	1,025	0.6%	31	57	6	94	\$30.78	Bachelor's degree	None	None
31-1011	Home Health Aides	572	763	2.9%	41	34	19	94	\$13.41	High school diploma or equivalent	None	Short-term on-the-job training
17-3026	Industrial Engineering Technicians	1,245	1,163	-0.7%	38	63	-8	93	\$30.42	Associate's degree	None	None
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	1,107	993	-1.1%	29	74	-11	92	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4031	Court, Municipal, and License Clerks	756	956	2.4%	38	34	20	92	\$20.51	High school diploma or equivalent	None	Moderate-term on-the-job training
21-1012	Educational, Guidance, School, and Vocational Counselors	805	840	0.4%	30	54	4	88	\$23.39	Master's degree	None	None
53-3031	Driver/Sales Workers	833	837	0.0%	35	52	0	87	\$15.32	High school diploma or equivalent	None	Short-term on-the-job training

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53-7061	Cleaners of Vehicles and Equipment	591	623	0.5%	31	53	3	87	\$13.72	No formal educational credential	None	Short-term on-the-job training
15-1142	Network and Computer Systems Administrators	1,363	1,385	0.2%	19	65	2	86	\$34.32	Bachelor's degree	None	None
33-3051	Police and Sheriff's Patrol Officers	1,321	1,344	0.2%	32	52	2	86	\$25.18	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9092	Medical Assistants	659	771	1.6%	31	44	11	86	\$17.45	Postsecondary non-degree award	None	None
43-4151	Order Clerks	814	776	-0.5%	37	52	-4	85	\$17.06	High school diploma or equivalent	None	Short-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	883	753	-1.6%	34	63	-13	84	\$18.50	High school diploma or equivalent	None	Moderate-term on-the-job training
23-1011	Lawyers	1,947	1,970	0.1%	39	42	2	83	\$41.98	Doctoral or professional degree	None	None
11-9111	Medical and Health Services Managers	844	974	1.4%	25	44	13	82	\$41.65	Bachelor's degree	Less than 5 years	None
33-9091	Crossing Guards	433	458	0.6%	62	18	2	82	\$14.84	No formal educational credential	None	Short-term on-the-job training
35-2011	Cooks, Fast Food	665	607	-0.9%	37	51	-6	82	\$11.47	No formal educational credential	None	Short-term on-the-job training
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	814	858	0.5%	27	50	4	81	\$24.19	High school diploma or equivalent	Less than 5 years	None
27-1024	Graphic Designers	876	880	0.0%	31	49	0	80	\$22.52	Bachelor's degree	None	None
23-2011	Paralegals and Legal Assistants	705	764	0.8%	24	49	6	79	\$23.85	Associate's degree	None	None
21-1015	Rehabilitation Counselors	643	731	1.3%	25	45	9	79	\$18.62	Master's degree	None	None
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	775	830	0.7%	25	46	6	77	\$21.87	High school diploma or equivalent	None	Long-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	587	572	-0.3%	39	39	-2	76	\$11.46	No formal educational credential	None	Short-term on-the-job training
27-3043	Writers and Authors	907	887	-0.2%	38	38	-2	74	\$30.83	Bachelor's degree	None	Long-term on-the-job training
11-9151	Social and Community Service Managers	723	814	1.2%	25	40	9	74	\$29.39	Bachelor's degree	Less than 5 years	None
11-9081	Lodging Managers	583	690	1.7%	22	41	11	74	\$28.17	High school diploma or equivalent	Less than 5 years	None
11-3031	Financial Managers	803	910	1.3%	20	42	11	73	\$48.90	Bachelor's degree	5 years or more	None
15-1133	Software Developers, Systems Software	927	1,033	1.1%	13	48	11	72	\$51.75	Bachelor's degree	None	None
13-1151	Training and Development Specialists	693	737	0.6%	22	46	4	72	\$27.80	Bachelor's degree	Less than 5 years	None
49-3021	Automotive Body and Related Repairers	730	755	0.3%	26	44	2	72	\$19.82	High school diploma or equivalent	None	Long-term on-the-job training
41-2022	Parts Salespersons	589	586	-0.1%	26	46	0	72	\$16.93	No formal educational credential	None	Moderate-term on-the-job training
15-1134	Web Developers	861	936	0.8%	17	46	8	71	\$26.43	Associate's degree	None	None
25-4031	Library Technicians	544	545	0.0%	43	28	0	71	\$15.62	Postsecondary non-degree award	None	None
39-9041	Residential Advisors	408	421	0.3%	28	41	1	70	\$16.18	High school diploma or equivalent	None	Short-term on-the-job training
35-2015	Cooks, Short Order	538	508	-0.6%	31	42	-3	70	\$13.39	No formal educational credential	None	Short-term on-the-job training
21-1099	Community and Social Service Specialists, All Other	504	555	1.0%	24	39	5	68	\$17.64	Bachelor's degree	None	None
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	625	652	0.4%	21	43	3	67	\$37.19	Bachelor's degree	None	Moderate-term on-the-job training
25-4021	Librarians	737	723	-0.2%	40	27	-1	66	\$20.24	Master's degree	None	None
17-2051	Civil Engineers	822	869	0.6%	18	42	5	65	\$34.64	Bachelor's degree	None	None

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
47-2231	Solar Photovoltaic Installers	406	556	3.2%	19	31	15	65	\$18.27	High school diploma or equivalent	None	Moderate-term on-the-job training
25-2022	Middle School Teachers, Except Special and Career/Technical Education	987	951	-0.4%	32	36	-4	64	\$57,230/yr	Bachelor's degree	None	None
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	610	626	0.3%	20	42	2	64	\$26.23	High school diploma or equivalent	Less than 5 years	None
27-4021	Photographers	870	842	-0.3%	37	30	-3	64	\$20.78	High school diploma or equivalent	None	Long-term on-the-job training
51-3092	Food Batchmakers	460	461	0.0%	25	38	0	63	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
11-9032	Education Administrators, Elementary and Secondary School	871	848	-0.3%	24	39	-2	61	\$90,800/yr	Master's degree	5 years or more	None
53-3021	Bus Drivers, Transit and Intercity	447	499	1.1%	37	19	5	61	\$19.83	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	594	606	0.2%	26	34	1	61	\$19.30	High school diploma or equivalent	None	Moderate-term on-the-job training
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	770	643	-1.8%	23	50	-13	60	\$23.71	Postsecondary non-degree award	None	Moderate-term on-the-job training
35-1011	Chefs and Head Cooks	463	481	0.4%	15	43	2	60	\$20.56	High school diploma or equivalent	5 years or more	None
29-1123	Physical Therapists	903	1,089	1.9%	19	21	19	59	\$36.01	Doctoral or professional degree	None	None
49-9041	Industrial Machinery Mechanics	622	658	0.6%	22	33	4	59	\$25.02	High school diploma or equivalent	None	Long-term on-the-job training
31-9091	Dental Assistants	515	532	0.3%	27	30	2	59	\$21.17	Postsecondary non-degree award	None	None
25-9031	Instructional Coordinators	615	633	0.3%	30	26	2	58	\$24.62	Master's degree	5 years or more	None
21-1022	Healthcare Social Workers	450	528	1.6%	18	31	8	57	\$27.03	Master's degree	None	Internship/residency
13-2052	Personal Financial Advisors	671	718	0.7%	17	34	5	56	\$32.86	Bachelor's degree	None	Long-term on-the-job training
41-9022	Real Estate Sales Agents	637	630	-0.1%	32	25	-1	56	\$27.11	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4041	Machinists	622	580	-0.7%	21	39	-4	56	\$20.04	High school diploma or equivalent	None	Long-term on-the-job training
35-3041	Food Servers, Nonrestaurant	366	381	0.4%	28	26	2	56	\$13.08	No formal educational credential	None	Short-term on-the-job training
19-3031	Clinical, Counseling, and School Psychologists	783	825	0.5%	20	31	4	55	\$29.13	Doctoral or professional degree	None	Internship/residency
13-1022	Wholesale and Retail Buyers, Except Farm Products	547	508	-0.7%	21	38	-4	55	\$25.26	Bachelor's degree	None	Moderate-term on-the-job training
21-1094	Community Health Workers	398	445	1.1%	19	31	5	55	\$14.78	High school diploma or equivalent	None	Short-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	566	500	-1.2%	23	39	-7	55	\$14.36	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2072	Loan Officers	615	652	0.6%	15	35	4	54	\$28.20	Bachelor's degree	None	Moderate-term on-the-job training
21-1011	Substance Abuse and Behavioral Disorder Counselors	427	493	1.4%	17	30	7	54	\$19.09	Bachelor's degree	None	None
41-3031	Securities, Commodities, and Financial Services Sales Agents	542	561	0.3%	14	36	2	52	\$35.05	Bachelor's degree	None	Moderate-term on-the-job training
13-1121	Meeting, Convention, and Event Planners	389	432	1.1%	16	31	4	51	\$21.76	Bachelor's degree	None	None
33-9099	Protective Service Workers, All Other	197	206	0.4%	28	21	1	50	n/a	High school diploma or equivalent	None	Short-term on-the-job training
13-1131	Fundraisers	466	497	0.6%	15	32	3	50	\$23.77	Bachelor's degree	None	None

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
47-2181	Roofers	498	508	0.2%	14	34	1	49	\$16.60	No formal educational credential	None	Moderate-term on-the-job training
45-2041	Graders and Sorters, Agricultural Products	366	365	0.0%	15	34	0	49	\$12.34	No formal educational credential	None	Short-term on-the-job training
19-2041	Environmental Scientists and Specialists, Including Health	476	509	0.7%	11	34	3	48	\$30.32	Bachelor's degree	None	None
29-2052	Pharmacy Technicians	532	581	0.9%	18	25	5	48	\$15.48	High school diploma or equivalent	None	Moderate-term on-the-job training
25-2052	Special Education Teachers, Kindergarten and Elementary School	739	712	-0.4%	24	26	-3	47	\$59,860/yr	Bachelor's degree	None	None
11-2022	Sales Managers	528	545	0.3%	12	33	2	47	\$54.43	Bachelor's degree	Less than 5 years	None
29-2021	Dental Hygienists	752	777	0.3%	28	17	2	47	\$34.15	Associate's degree	None	None
53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	437	453	0.4%	14	31	2	47	\$26.23	High school diploma or equivalent	Less than 5 years	None
43-5061	Production, Planning, and Expediting Clerks	451	458	0.2%	16	30	1	47	\$22.72	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9199	Production Workers, All Other	383	403	0.5%	15	29	2	46	\$14.37	High school diploma or equivalent	None	Moderate-term on-the-job training
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	415	419	0.1%	25	20	0	45	\$38,030/yr	Bachelor's degree	None	None
27-2012	Producers and Directors	457	483	0.6%	12	29	3	44	\$25.10	Bachelor's degree	Less than 5 years	None
29-1171	Nurse Practitioners	547	680	2.2%	12	18	13	43	\$48.87	Master's degree	None	None
43-5052	Postal Service Mail Carriers	737	690	-0.7%	28	20	-5	43	\$22.37	High school diploma or equivalent	None	Short-term on-the-job training
27-3041	Editors	492	461	-0.6%	16	30	-3	43	\$22.28	Bachelor's degree	Less than 5 years	None
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	304	325	0.7%	10	31	2	43	\$20.35	High school diploma or equivalent	Less than 5 years	None
43-4111	Interviewers, Except Eligibility and Loan	340	365	0.7%	19	22	2	43	\$19.44	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	442	467	0.6%	21	20	2	43	\$15.72	High school diploma or equivalent	None	Short-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	557	520	-0.7%	16	30	-4	42	\$25.26	Bachelor's degree	None	Moderate-term on-the-job training
43-4121	Library Assistants, Clerical	286	295	0.3%	23	18	1	42	\$12.94	High school diploma or equivalent	None	Short-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	491	414	-1.7%	17	32	-8	41	\$14.63	High school diploma or equivalent	None	Moderate-term on-the-job training
39-7011	Tour Guides and Escorts	213	236	1.0%	20	19	2	41	\$12.53	High school diploma or equivalent	None	Moderate-term on-the-job training
25-1123	English Language and Literature Teachers, Postsecondary	553	544	-0.2%	20	21	-1	40	n/a	Doctoral or professional degree	None	None
11-2021	Marketing Managers	418	455	0.9%	10	26	4	40	\$52.49	Bachelor's degree	5 years or more	None
13-2082	Tax Preparers	370	377	0.2%	20	18	1	39	\$23.82	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	381	385	0.1%	13	26	0	39	\$20.64	High school diploma or equivalent	None	Apprenticeship
51-4121	Welders, Cutters, Solderers, and Brazers	393	384	-0.2%	10	30	-1	39	\$19.63	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3011	Bill and Account Collectors	405	385	-0.5%	15	26	-2	39	\$19.43	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2056	Veterinary Technologists and Technicians	408	464	1.3%	14	19	6	39	\$16.53	Associate's degree	None	None
43-9021	Data Entry Keyers	486	375	-2.6%	22	28	-11	39	\$16.51	High school diploma or equivalent	None	Short-term on-the-job training
15-1121	Computer Systems Analysts	509	546	0.7%	10	24	4	38	\$36.72	Bachelor's degree	None	None
11-3011	Administrative Services Managers	425	456	0.7%	13	22	3	38	\$36.20	Bachelor's degree	Less than 5 years	None

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
51-9071	Jewelers and Precious Stone and Metal Workers	428	388	-1.0%	24	18	-4	38	\$17.57	High school diploma or equivalent	None	Long-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	440	388	-1.2%	19	23	-5	37	\$17.99	High school diploma or equivalent	None	Moderate-term on-the-job training
29-1069	Physicians and Surgeons, All Other	1,202	1,239	0.3%	18	14	4	36	\$72.61	Doctoral or professional degree	None	Internship/residency
17-2071	Electrical Engineers	502	535	0.6%	12	21	3	36	\$48.70	Bachelor's degree	None	None
17-3022	Civil Engineering Technicians	389	413	0.6%	13	21	2	36	\$24.82	Associate's degree	None	None
29-2071	Medical Records and Health Information Technicians	496	546	1.0%	15	16	5	36	\$18.76	Postsecondary non-degree award	None	None
17-2112	Industrial Engineers	542	549	0.1%	12	22	1	35	\$36.66	Bachelor's degree	None	None
13-1051	Cost Estimators	354	363	0.3%	11	23	1	35	\$30.27	Bachelor's degree	None	Moderate-term on-the-job training
43-9199	Office and Administrative Support Workers, All Other	317	323	0.2%	14	20	1	35	\$20.88	High school diploma or equivalent	None	Short-term on-the-job training
41-3011	Advertising Sales Agents	316	285	-1.0%	11	26	-3	34	\$22.26	High school diploma or equivalent	None	Moderate-term on-the-job training
25-2054	Special Education Teachers, Secondary School	471	471	0.0%	16	17	0	33	\$61,780/yr	Bachelor's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	361	349	-0.3%	15	19	-1	33	\$55,780/yr	Bachelor's degree	None	None
17-2141	Mechanical Engineers	493	508	0.3%	10	21	2	33	\$41.75	Bachelor's degree	None	None
49-9051	Electrical Power-Line Installers and Repairers	410	423	0.3%	10	22	1	33	\$40.55	High school diploma or equivalent	None	Long-term on-the-job training
51-5112	Printing Press Operators	332	322	-0.3%	13	21	-1	33	\$18.93	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	271	290	0.7%	10	21	2	33	\$17.87	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	312	301	-0.4%	11	23	-1	33	\$15.68	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2041	Emergency Medical Technicians and Paramedics	489	520	0.6%	9	21	3	33	\$15.67	Postsecondary non-degree award	None	None
11-1011	Chief Executives	533	496	-0.7%	15	21	-4	32	\$53.61	Bachelor's degree	5 years or more	None
39-5094	Skincare Specialists	272	280	0.3%	17	14	1	32	\$26.68	Postsecondary non-degree award	None	None
51-9196	Paper Goods Machine Setters, Operators, and Tenders	329	314	-0.5%	12	21	-2	31	\$18.39	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	294	300	0.2%	12	18	1	31	\$17.35	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1011	Art Directors	399	386	-0.3%	19	12	-1	30	\$40.82	Bachelor's degree	5 years or more	None
15-1152	Computer Network Support Specialists	355	383	0.8%	8	19	3	30	\$22.99	Associate's degree	None	None
43-3051	Payroll and Timekeeping Clerks	337	322	-0.5%	14	18	-2	30	\$20.98	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	269	278	0.3%	10	19	1	30	\$19.47	No formal educational credential	None	Moderate-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	236	245	0.4%	11	18	1	30	\$16.94	No formal educational credential	None	Short-term on-the-job training
11-9033	Education Administrators, Postsecondary	399	394	-0.1%	11	18	0	29	n/a	Master's degree	Less than 5 years	None
17-1011	Architects, Except Landscape and Naval	432	422	-0.2%	11	19	-1	29	\$33.21	Bachelor's degree	None	Internship/residency
51-8031	Water and Wastewater Treatment Plant and System Operators	354	359	0.1%	10	19	0	29	\$23.08	High school diploma or equivalent	None	Long-term on-the-job training
43-5051	Postal Service Clerks	429	401	-0.7%	21	11	-3	29	\$21.88	High school diploma or equivalent	None	Short-term on-the-job training

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
43-5032	Dispatchers, Except Police, Fire, and Ambulance	364	345	-0.5%	12	19	-2	29	\$19.38	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	305	309	0.1%	11	18	0	29	\$17.30	High school diploma or equivalent	None	Moderate-term on-the-job training
11-3021	Computer and Information Systems Managers	351	372	0.6%	6	20	2	28	\$53.91	Bachelor's degree	5 years or more	None
29-1071	Physician Assistants	320	410	2.5%	6	13	9	28	\$50.35	Master's degree	None	None
21-1091	Health Educators	214	229	0.7%	10	16	2	28	\$26.61	Bachelor's degree	None	None
11-9031	Education Administrators, Preschool and Childcare Center/Program	371	377	0.2%	10	17	1	28	\$23.13	Bachelor's degree	Less than 5 years	None
31-9097	Phlebotomists	235	266	1.2%	11	14	3	28	\$16.47	Postsecondary non-degree award	None	None
47-3012	Helpers--Carpenters	195	207	0.6%	8	19	1	28	\$15.89	No formal educational credential	None	Short-term on-the-job training
29-2034	Radiologic Technologists	408	454	1.1%	11	11	5	27	\$29.40	Associate's degree	None	None
45-4022	Logging Equipment Operators	280	231	-1.9%	9	23	-5	27	\$18.59	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	214	221	0.3%	8	18	1	27	\$15.62	High school diploma or equivalent	None	Moderate-term on-the-job training
25-1121	Art, Drama, and Music Teachers, Postsecondary	351	352	0.0%	13	13	0	26	n/a	Master's degree	None	None
43-6012	Legal Secretaries	358	278	-2.5%	17	17	-8	26	\$22.58	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	326	306	-0.6%	10	18	-2	26	\$21.71	No formal educational credential	None	Moderate-term on-the-job training
27-3091	Interpreters and Translators	276	288	0.4%	13	12	1	26	\$18.32	Bachelor's degree	None	None
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	286	262	-0.9%	10	18	-2	26	\$17.93	Postsecondary non-degree award	None	Short-term on-the-job training
51-3021	Butchers and Meat Cutters	205	214	0.4%	9	16	1	26	\$16.48	No formal educational credential	None	Long-term on-the-job training
27-3011	Radio and Television Announcers	328	295	-1.1%	13	16	-3	26	\$14.79	Bachelor's degree	None	None
51-6031	Sewing Machine Operators	276	261	-0.6%	15	13	-2	26	\$12.52	No formal educational credential	None	Short-term on-the-job training
51-9081	Dental Laboratory Technicians	175	213	2.0%	8	13	4	25	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
11-3051	Industrial Production Managers	413	397	-0.4%	9	18	-2	25	\$52.57	Bachelor's degree	5 years or more	None
43-5031	Police, Fire, and Ambulance Dispatchers	287	286	0.0%	10	15	0	25	\$21.76	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4131	Loan Interviewers and Clerks	236	254	0.7%	9	14	2	25	\$19.00	High school diploma or equivalent	None	Short-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	259	248	-0.4%	7	19	-1	25	\$17.81	High school diploma or equivalent	None	Moderate-term on-the-job training

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

n/a - Wage data not available

1 - Occupational Employment and Wages, www.vtlni.info/occupation.cfm#oes. Median wage is an hourly rate except for occupations normally paid an annual rate, as noted. + Wage is equal to or greater than \$100.00 per hour or \$208,000 per year.

Source: Vermont Department of Labor, Economic and Labor Market Information, Employment Projections and Occupational Employment and Wages Programs, in cooperation with the U.S. Bureau of Labor Statistics

released: Projections: July 2018, Wage: April 2019

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
29-2035	Magnetic Resonance Imaging Technologists	39	43	1.0%	1	1	0	2	\$38.53	Associate's degree	Less than 5 years	None
39-4031	Morticians, Undertakers, and Funeral Directors	98	91	-0.7%	5	7	-1	11	\$33.06	Associate's degree	None	Long-term on-the-job training
19-4031	Chemical Technicians	72	73	0.1%	2	4	0	6	\$24.68	Associate's degree	None	Moderate-term on-the-job training
49-9062	Medical Equipment Repairers	74	70	-0.6%	3	3	0	6	\$23.21	Associate's degree	None	Moderate-term on-the-job training
29-1124	Radiation Therapists	48	53	1.0%	1	1	0	2	\$43.75	Associate's degree	None	None
17-3023	Electrical and Electronics Engineering Technicians	319	302	-0.5%	10	16	-2	24	\$37.94	Associate's degree	None	None
29-2032	Diagnostic Medical Sonographers	77	96	2.2%	2	2	2	6	\$37.59	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	44	47	0.7%	1	2	0	3	\$37.05	Associate's degree	None	None
29-2021	Dental Hygienists	752	777	0.3%	28	17	2	47	\$34.15	Associate's degree	None	None
29-1126	Respiratory Therapists	215	259	1.9%	6	5	4	15	\$30.90	Associate's degree	None	None
17-3026	Industrial Engineering Technicians	1,245	1,163	-0.7%	38	63	-8	93	\$30.42	Associate's degree	None	None
29-2034	Radiologic Technologists	408	454	1.1%	11	11	5	27	\$29.40	Associate's degree	None	None
31-2011	Occupational Therapy Assistants	81	94	1.5%	4	6	1	11	\$28.26	Associate's degree	None	None
17-3029	Engineering Technicians, Except Drafters, All Other	35	34	-0.3%	1	2	0	3	\$27.13	Associate's degree	None	None
29-2012	Medical and Clinical Laboratory Technicians	249	276	1.0%	8	8	3	19	\$26.68	Associate's degree	None	None
31-2021	Physical Therapist Assistants	158	191	1.9%	8	13	3	24	\$26.61	Associate's degree	None	None
15-1134	Web Developers	861	936	0.8%	17	46	8	71	\$26.43	Associate's degree	None	None
23-2099	Legal Support Workers, All Other	98	107	0.9%	4	5	1	10	\$25.99	Associate's degree	None	None
17-3019	Drafters, All Other	45	43	-0.5%	1	2	0	3	\$25.40	Associate's degree	None	None
17-3022	Civil Engineering Technicians	389	413	0.6%	13	21	2	36	\$24.82	Associate's degree	None	None
23-2011	Paralegals and Legal Assistants	705	764	0.8%	24	49	6	79	\$23.85	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	91	102	1.1%	3	5	1	9	\$23.80	Associate's degree	None	None
17-3027	Mechanical Engineering Technicians	41	40	-0.2%	1	2	0	3	\$23.58	Associate's degree	None	None
17-3013	Mechanical Drafters	91	86	-0.6%	3	5	0	8	\$23.54	Associate's degree	None	None
15-1152	Computer Network Support Specialists	355	383	0.8%	8	19	3	30	\$22.99	Associate's degree	None	None
29-2031	Cardiovascular Technologists and Technicians	48	54	1.2%	1	1	1	3	\$22.38	Associate's degree	None	None
19-4099	Life, Physical, and Social Science Technicians, All Other	64	69	0.8%	3	5	0	8	\$21.67	Associate's degree	None	None
17-3011	Architectural and Civil Drafters	201	199	-0.1%	6	11	0	17	\$21.55	Associate's degree	None	None
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	168	161	-0.4%	7	11	-1	17	\$18.39	Associate's degree	None	None
19-4091	Environmental Science and Protection Technicians, Including Health	85	98	1.4%	4	7	1	12	\$17.47	Associate's degree	None	None
29-2056	Veterinary Technologists and Technicians	408	464	1.3%	14	19	6	39	\$16.53	Associate's degree	None	None
25-2011	Preschool Teachers, Except Special Education	1,144	1,159	0.1%	50	62	2	114	\$15.64	Associate's degree	None	None
29-2051	Dietetic Technicians	38	42	1.0%	1	2	0	3	\$13.90	Associate's degree	None	None
43-9031	Desktop Publishers	62	54	-1.4%	2	4	-1	5	\$20.23	Associate's degree	None	Short-term on-the-job training
27-4012	Broadcast Technicians	73	72	-0.1%	2	4	0	6	\$15.45	Associate's degree	None	Short-term on-the-job training
11-9041	Architectural and Engineering Managers	266	268	0.1%	5	13	0	18	\$58.62	Bachelor's degree	5 years or more	None
11-3021	Computer and Information Systems Managers	351	372	0.6%	6	20	2	28	\$53.91	Bachelor's degree	5 years or more	None
11-1011	Chief Executives	533	496	-0.7%	15	21	-4	32	\$53.61	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	413	397	-0.4%	9	18	-2	25	\$52.57	Bachelor's degree	5 years or more	None

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
11-2021	Marketing Managers	418	455	0.9%	10	26	4	40	\$52.49	Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	155	159	0.3%	5	8	0	13	\$49.58	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	803	910	1.3%	20	42	11	73	\$48.90	Bachelor's degree	5 years or more	None
11-3121	Human Resources Managers	226	234	0.3%	6	12	1	19	\$44.69	Bachelor's degree	5 years or more	None
11-9121	Natural Sciences Managers	75	81	0.8%	2	4	1	7	\$44.55	Bachelor's degree	5 years or more	None
11-2031	Public Relations and Fundraising Managers	204	210	0.3%	5	12	1	18	\$43.00	Bachelor's degree	5 years or more	None
27-1011	Art Directors	399	386	-0.3%	19	12	-1	30	\$40.82	Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	47	49	0.4%	1	3	0	4	\$38.77	Bachelor's degree	5 years or more	None
15-1143	Computer Network Architects	154	156	0.1%	2	8	0	10	\$38.00	Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	2,871	3,084	0.7%	62	178	21	261	\$37.35	Bachelor's degree	5 years or more	None
11-9161	Emergency Management Directors	30	32	0.6%	1	1	0	2	\$35.62	Bachelor's degree	5 years or more	None
25-2032	Career/Technical Education Teachers, Secondary School	236	226	-0.4%	7	9	-1	15	\$62,110/yr	Bachelor's degree	Less than 5 years	None
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	46	50	0.8%	2	4	0	6	\$88.37	Bachelor's degree	Less than 5 years	None
11-2022	Sales Managers	528	545	0.3%	12	33	2	47	\$54.43	Bachelor's degree	Less than 5 years	None
11-9199	Managers, All Other	2,665	2,660	0.0%	72	112	0	184	\$48.94	Bachelor's degree	Less than 5 years	None
11-2011	Advertising and Promotions Managers	49	48	-0.2%	1	4	0	5	\$46.47	Bachelor's degree	Less than 5 years	None
11-9111	Medical and Health Services Managers	844	974	1.4%	25	44	13	82	\$41.65	Bachelor's degree	Less than 5 years	None
15-1122	Information Security Analysts	82	87	0.6%	2	4	0	6	\$38.66	Bachelor's degree	Less than 5 years	None
13-1111	Management Analysts	1,000	1,096	0.9%	34	54	10	98	\$36.79	Bachelor's degree	Less than 5 years	None
11-3011	Administrative Services Managers	425	456	0.7%	13	22	3	38	\$36.20	Bachelor's degree	Less than 5 years	None
11-9039	Education Administrators, All Other	115	119	0.3%	3	5	0	8	\$34.50	Bachelor's degree	Less than 5 years	None
13-1075	Labor Relations Specialists	140	120	-1.5%	4	8	-2	10	\$29.42	Bachelor's degree	Less than 5 years	None
11-9151	Social and Community Service Managers	723	814	1.2%	25	40	9	74	\$29.39	Bachelor's degree	Less than 5 years	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	190	198	0.4%	5	10	1	16	\$28.00	Bachelor's degree	Less than 5 years	None
13-1151	Training and Development Specialists	693	737	0.6%	22	46	4	72	\$27.80	Bachelor's degree	Less than 5 years	None
27-2041	Music Directors and Composers	117	110	-0.6%	6	4	-1	9	\$26.52	Bachelor's degree	Less than 5 years	None
25-1194	Vocational Education Teachers, Postsecondary	108	99	-0.9%	4	4	-1	7	\$26.40	Bachelor's degree	Less than 5 years	None
27-2012	Producers and Directors	457	483	0.6%	12	29	3	44	\$25.10	Bachelor's degree	Less than 5 years	None
11-9031	Education Administrators, Preschool and Childcare Center/Program	371	377	0.2%	10	17	1	28	\$23.13	Bachelor's degree	Less than 5 years	None
27-3041	Editors	492	461	-0.6%	16	30	-3	43	\$22.28	Bachelor's degree	Less than 5 years	None
27-3042	Technical Writers	129	140	0.8%	4	8	1	13	\$34.39	Bachelor's degree	Less than 5 years	Short-term on-the-job training
17-1011	Architects, Except Landscape and Naval	432	422	-0.2%	11	19	-1	29	\$33.21	Bachelor's degree	None	Internship/residency
29-1031	Dietitians and Nutritionists	243	264	0.8%	8	7	2	17	\$27.64	Bachelor's degree	None	Internship/residency
17-1022	Surveyors	107	111	0.4%	3	4	0	7	\$25.10	Bachelor's degree	None	Internship/residency
17-1012	Landscape Architects	224	226	0.1%	6	10	0	16	\$24.58	Bachelor's degree	None	Internship/residency
13-2061	Financial Examiners	54	57	0.5%	2	2	0	4	\$36.50	Bachelor's degree	None	Long-term on-the-job training
13-2052	Personal Financial Advisors	671	718	0.7%	17	34	5	56	\$32.86	Bachelor's degree	None	Long-term on-the-job training
27-3043	Writers and Authors	907	887	-0.2%	38	38	-2	74	\$30.83	Bachelor's degree	None	Long-term on-the-job training
13-2021	Appraisers and Assessors of Real Estate	242	258	0.6%	9	7	2	18	\$24.52	Bachelor's degree	None	Long-term on-the-job training
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	113	112	-0.1%	6	3	0	9	\$20.52	Bachelor's degree	None	Long-term on-the-job training
13-2071	Credit Counselors	40	42	0.5%	1	2	0	3	n/a	Bachelor's degree	None	Moderate-term on-the-job training
41-9031	Sales Engineers	102	96	-0.6%	2	8	-1	9	n/a	Bachelor's degree	None	Moderate-term on-the-job training
11-9021	Construction Managers	1,328	1,391	0.5%	31	60	6	97	\$42.06	Bachelor's degree	None	Moderate-term on-the-job training

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	625	652	0.4%	21	43	3	67	\$37.19	Bachelor's degree	None	Moderate-term on-the-job training
13-1041	Compliance Officers	2,248	2,475	1.0%	66	119	23	208	\$35.12	Bachelor's degree	None	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	542	561	0.3%	14	36	2	52	\$35.05	Bachelor's degree	None	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	133	146	0.9%	4	7	1	12	\$33.43	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	354	363	0.3%	11	23	1	35	\$30.27	Bachelor's degree	None	Moderate-term on-the-job training
45-2011	Agricultural Inspectors	37	38	0.3%	2	3	0	5	\$28.58	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	615	652	0.6%	15	35	4	54	\$28.20	Bachelor's degree	None	Moderate-term on-the-job training
13-2053	Insurance Underwriters	186	160	-1.5%	4	9	-3	10	\$28.08	Bachelor's degree	None	Moderate-term on-the-job training
13-2081	Tax Examiners and Collectors, and Revenue Agents	108	114	0.5%	3	4	1	8	\$25.86	Bachelor's degree	None	Moderate-term on-the-job training
13-1021	Buyers and Purchasing Agents, Farm Products	117	110	-0.6%	5	8	-1	12	\$25.26	Bachelor's degree	None	Moderate-term on-the-job training
13-1022	Wholesale and Retail Buyers, Except Farm Products	547	508	-0.7%	21	38	-4	55	\$25.26	Bachelor's degree	None	Moderate-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	557	520	-0.7%	16	30	-4	42	\$25.26	Bachelor's degree	None	Moderate-term on-the-job training
21-2011	Clergy	1,145	1,151	0.1%	53	70	1	124	\$24.67	Bachelor's degree	None	Moderate-term on-the-job training
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	2,440	2,360	-0.3%	74	90	-8	156	\$63,890/yr	Bachelor's degree	None	None
25-2053	Special Education Teachers, Middle School	229	221	-0.4%	8	8	-1	15	\$61,910/yr	Bachelor's degree	None	None
25-2054	Special Education Teachers, Secondary School	471	471	0.0%	16	17	0	33	\$61,780/yr	Bachelor's degree	None	None
25-2051	Special Education Teachers, Preschool	94	94	0.0%	3	3	0	6	\$60,850/yr	Bachelor's degree	None	None
25-2052	Special Education Teachers, Kindergarten and Elementary School	739	712	-0.4%	24	26	-3	47	\$59,860/yr	Bachelor's degree	None	None
25-2021	Elementary School Teachers, Except Special Education	3,462	3,330	-0.4%	112	126	-13	225	\$59,100/yr	Bachelor's degree	None	None
25-2022	Middle School Teachers, Except Special and Career/Technical Education	987	951	-0.4%	32	36	-4	64	\$57,230/yr	Bachelor's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	361	349	-0.3%	15	19	-1	33	\$55,780/yr	Bachelor's degree	None	None
29-9091	Athletic Trainers	88	99	1.2%	2	3	1	6	\$50,910/yr	Bachelor's degree	None	None
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	415	419	0.1%	25	20	0	45	\$38,030/yr	Bachelor's degree	None	None
27-2022	Coaches and Scouts	1,875	1,949	0.4%	107	144	7	258	\$29,200/yr	Bachelor's degree	None	None
15-1133	Software Developers, Systems Software	927	1,033	1.1%	13	48	11	72	\$51.75	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	68	71	0.4%	2	3	0	5	\$49.43	Bachelor's degree	None	None
17-2071	Electrical Engineers	502	535	0.6%	12	21	3	36	\$48.70	Bachelor's degree	None	None
15-1132	Software Developers, Applications	1,103	1,384	2.3%	17	61	28	106	\$45.68	Bachelor's degree	None	None
17-2141	Mechanical Engineers	493	508	0.3%	10	21	2	33	\$41.75	Bachelor's degree	None	None
17-2081	Environmental Engineers	110	118	0.7%	3	5	1	9	\$40.38	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	66	66	0.0%	2	3	0	5	\$39.88	Bachelor's degree	None	None
19-1012	Food Scientists and Technologists	67	66	-0.2%	2	5	0	7	\$39.58	Bachelor's degree	None	None
15-2031	Operations Research Analysts	59	72	2.0%	1	2	1	4	\$39.16	Bachelor's degree	None	None
27-1022	Fashion Designers	53	54	0.2%	2	3	0	5	\$37.71	Bachelor's degree	None	None
17-2199	Engineers, All Other	71	70	-0.1%	2	3	0	5	\$37.10	Bachelor's degree	None	None
19-3099	Social Scientists and Related Workers, All Other	41	45	0.9%	1	3	0	4	\$37.10	Bachelor's degree	None	None
15-1121	Computer Systems Analysts	509	546	0.7%	10	24	4	38	\$36.72	Bachelor's degree	None	None
17-2112	Industrial Engineers	542	549	0.1%	12	22	1	35	\$36.66	Bachelor's degree	None	None
13-2051	Financial Analysts	177	189	0.7%	4	12	1	17	\$35.85	Bachelor's degree	None	None
15-1131	Computer Programmers	484	430	-1.2%	8	20	-5	23	\$35.42	Bachelor's degree	None	None
15-1141	Database Administrators	236	251	0.6%	5	10	2	17	\$35.09	Bachelor's degree	None	None

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
17-2051	Civil Engineers	822	869	0.6%	18	42	5	65	\$34.64	Bachelor's degree	None	None
15-1199	Computer Occupations, All Other	207	224	0.8%	4	10	2	16	\$34.37	Bachelor's degree	None	None
15-1142	Network and Computer Systems Administrators	1,363	1,385	0.2%	19	65	2	86	\$34.32	Bachelor's degree	None	None
13-2031	Budget Analysts	88	94	0.7%	2	4	1	7	\$33.90	Bachelor's degree	None	None
21-1029	Social Workers, All Other	106	118	1.1%	4	7	1	12	\$33.36	Bachelor's degree	None	None
19-1023	Zoologists and Wildlife Biologists	122	131	0.7%	3	8	1	12	\$32.81	Bachelor's degree	None	None
13-2011	Accountants and Auditors	3,713	3,923	0.6%	113	220	21	354	\$32.36	Bachelor's degree	None	None
13-1081	Logisticians	158	171	0.8%	4	12	1	17	\$31.96	Bachelor's degree	None	None
29-9011	Occupational Health and Safety Specialists	125	128	0.2%	3	4	0	7	\$31.94	Bachelor's degree	None	None
29-1141	Registered Nurses	5,980	6,757	1.2%	182	138	78	398	\$31.61	Bachelor's degree	None	None
19-1032	Foresters	84	84	0.0%	2	5	0	7	\$30.82	Bachelor's degree	None	None
19-2031	Chemists	173	189	0.9%	5	11	2	18	\$30.81	Bachelor's degree	None	None
13-1199	Business Operations Specialists, All Other	962	1,025	0.6%	31	57	6	94	\$30.78	Bachelor's degree	None	None
27-1021	Commercial and Industrial Designers	266	262	-0.2%	9	15	0	24	\$30.60	Bachelor's degree	None	None
19-2041	Environmental Scientists and Specialists, Including Health	476	509	0.7%	11	34	3	48	\$30.32	Bachelor's degree	None	None
13-2041	Credit Analysts	100	102	0.2%	2	6	0	8	\$30.03	Bachelor's degree	None	None
17-1021	Cartographers and Photogrammetrists	43	50	1.5%	1	2	1	4	\$29.27	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	49	52	0.6%	1	4	0	5	\$29.24	Bachelor's degree	None	None
13-1161	Market Research Analysts and Marketing Specialists	1,694	2,017	1.8%	49	127	32	208	\$27.64	Bachelor's degree	None	None
19-1022	Microbiologists	40	42	0.5%	1	3	0	4	\$27.19	Bachelor's degree	None	None
13-1071	Human Resources Specialists	1,113	1,170	0.5%	33	75	6	114	\$26.90	Bachelor's degree	None	None
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	151	136	-1.0%	9	7	-2	14	\$26.80	Bachelor's degree	None	None
29-2011	Medical and Clinical Laboratory Technologists	180	200	1.1%	6	6	2	14	\$26.68	Bachelor's degree	None	None
21-1091	Health Educators	214	229	0.7%	10	16	2	28	\$26.61	Bachelor's degree	None	None
25-9099	Education, Training, and Library Workers, All Other	90	92	0.2%	4	4	0	8	\$25.86	Bachelor's degree	None	None
27-3031	Public Relations Specialists	1,103	1,150	0.4%	32	76	5	113	\$24.80	Bachelor's degree	None	None
19-1031	Conservation Scientists	114	122	0.7%	2	7	1	10	\$24.48	Bachelor's degree	None	None
21-1021	Child, Family, and School Social Workers	1,609	1,777	1.0%	61	108	17	186	\$23.90	Bachelor's degree	None	None
13-1131	Fundraisers	466	497	0.6%	15	32	3	50	\$23.77	Bachelor's degree	None	None
27-1025	Interior Designers	99	95	-0.4%	3	6	0	9	\$23.36	Bachelor's degree	None	None
27-1024	Graphic Designers	876	880	0.0%	31	49	0	80	\$22.52	Bachelor's degree	None	None
13-1121	Meeting, Convention, and Event Planners	389	432	1.1%	16	31	4	51	\$21.76	Bachelor's degree	None	None
19-4021	Biological Technicians	114	125	0.9%	3	8	1	12	\$19.89	Bachelor's degree	None	None
27-4032	Film and Video Editors	35	38	0.8%	1	2	0	3	\$19.58	Bachelor's degree	None	None
21-1011	Substance Abuse and Behavioral Disorder Counselors	427	493	1.4%	17	30	7	54	\$19.09	Bachelor's degree	None	None
25-4013	Museum Technicians and Conservators	38	43	1.2%	2	2	0	4	\$18.64	Bachelor's degree	None	None
29-1125	Recreational Therapists	36	37	0.3%	1	1	0	2	\$18.51	Bachelor's degree	None	None
27-3091	Interpreters and Translators	276	288	0.4%	13	12	1	26	\$18.32	Bachelor's degree	None	None
27-4031	Camera Operators, Television, Video, and Motion Picture	139	150	0.8%	4	9	1	14	\$17.76	Bachelor's degree	None	None
21-1099	Community and Social Service Specialists, All Other	504	555	1.0%	24	39	5	68	\$17.64	Bachelor's degree	None	None
27-3022	Reporters and Correspondents	196	180	-0.8%	6	12	-2	16	\$16.92	Bachelor's degree	None	None
27-3011	Radio and Television Announcers	328	295	-1.1%	13	16	-3	26	\$14.79	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	216	228	0.5%	7	12	1	20	\$30.83	Bachelor's degree	None	Short-term on-the-job training
23-1023	Judges, Magistrate Judges, and Magistrates	95	95	0.0%	2	2	0	4	n/a	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	50	50	0.0%	1	1	0	2	\$30.81	Doctoral or professional degree	5 years or more	Short-term on-the-job training
25-1071	Health Specialties Teachers, Postsecondary	103	117	1.3%	4	4	1	9	n/a	Doctoral or professional degree	Less than 5 years	None
25-1081	Education Teachers, Postsecondary	177	175	-0.1%	6	7	0	13	n/a	Doctoral or professional degree	Less than 5 years	None

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
29-1061	Anesthesiologists	100	100	0.0%	2	1	0	3	\$100.00+	Doctoral or professional degree	None	Internship/residency
29-1067	Surgeons	353	353	0.0%	5	4	0	9	\$100.00+	Doctoral or professional degree	None	Internship/residency
29-1064	Obstetricians and Gynecologists	171	172	0.1%	2	2	0	4	\$99.24	Doctoral or professional degree	None	Internship/residency
29-1063	Internists, General	282	282	0.0%	4	3	0	7	\$98.55	Doctoral or professional degree	None	Internship/residency
29-1062	Family and General Practitioners	382	384	0.1%	6	4	0	10	\$96.75	Doctoral or professional degree	None	Internship/residency
29-1066	Psychiatrists	234	234	0.0%	3	3	0	6	\$86.58	Doctoral or professional degree	None	Internship/residency
29-1065	Pediatricians, General	245	244	0.0%	4	3	0	7	\$74.83	Doctoral or professional degree	None	Internship/residency
29-1069	Physicians and Surgeons, All Other	1,202	1,239	0.3%	18	14	4	36	\$72.61	Doctoral or professional degree	None	Internship/residency
19-3031	Clinical, Counseling, and School Psychologists	783	825	0.5%	20	31	4	55	\$29.13	Doctoral or professional degree	None	Internship/residency
25-1011	Business Teachers, Postsecondary	184	195	0.6%	7	7	1	15	n/a	Doctoral or professional degree	None	None
25-1021	Computer Science Teachers, Postsecondary	77	75	-0.3%	3	3	0	6	n/a	Doctoral or professional degree	None	None
25-1022	Mathematical Science Teachers, Postsecondary	197	193	-0.2%	7	7	0	14	n/a	Doctoral or professional degree	None	None
25-1042	Biological Science Teachers, Postsecondary	237	245	0.3%	9	9	1	19	n/a	Doctoral or professional degree	None	None
25-1054	Physics Teachers, Postsecondary	46	46	0.0%	2	2	0	4	n/a	Doctoral or professional degree	None	None
25-1063	Economics Teachers, Postsecondary	119	118	-0.1%	4	4	0	8	n/a	Doctoral or professional degree	None	None
25-1064	Geography Teachers, Postsecondary	41	40	-0.2%	2	2	0	4	n/a	Doctoral or professional degree	None	None
25-1067	Sociology Teachers, Postsecondary	94	92	-0.2%	3	4	0	7	n/a	Doctoral or professional degree	None	None
25-1122	Communications Teachers, Postsecondary	105	103	-0.2%	4	4	0	8	n/a	Doctoral or professional degree	None	None
25-1123	English Language and Literature Teachers, Postsecondary	553	544	-0.2%	20	21	-1	40	n/a	Doctoral or professional degree	None	None
25-1124	Foreign Language and Literature Teachers, Postsecondary	270	271	0.0%	10	10	0	20	n/a	Doctoral or professional degree	None	None
25-1125	History Teachers, Postsecondary	196	194	-0.1%	7	7	0	14	n/a	Doctoral or professional degree	None	None
25-1126	Philosophy and Religion Teachers, Postsecondary	173	176	0.2%	6	7	0	13	n/a	Doctoral or professional degree	None	None
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	42	41	-0.2%	2	2	0	4	n/a	Doctoral or professional degree	None	None
25-1199	Postsecondary Teachers, All Other	302	296	-0.2%	11	11	-1	21	n/a	Doctoral or professional degree	None	None
29-1011	Chiropractors	166	167	0.1%	3	1	0	4	n/a	Doctoral or professional degree	None	None
29-1021	Dentists, General	285	300	0.5%	5	2	2	9	n/a	Doctoral or professional degree	None	None

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
29-1041	Optometrists	116	120	0.3%	2	2	0	4	\$68.21	Doctoral or professional degree	None	None
29-1051	Pharmacists	504	520	0.3%	12	10	2	24	\$67.30	Doctoral or professional degree	None	None
29-1131	Veterinarians	310	340	0.9%	6	5	3	14	\$46.52	Doctoral or professional degree	None	None
23-1011	Lawyers	1,947	1,970	0.1%	39	42	2	83	\$41.98	Doctoral or professional degree	None	None
29-1123	Physical Therapists	903	1,089	1.9%	19	21	19	59	\$36.01	Doctoral or professional degree	None	None
47-4011	Construction and Building Inspectors	203	224	1.0%	10	12	2	24	\$27.39	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
11-3071	Transportation, Storage, and Distribution Managers	130	141	0.8%	3	7	1	11	\$39.94	High school diploma or equivalent	5 years or more	None
11-9013	Farmers, Ranchers, and Other Agricultural Managers	5,835	6,123	0.5%	350	89	29	468	\$37.71	High school diploma or equivalent	5 years or more	None
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	1,892	1,989	0.5%	62	122	10	194	\$30.57	High school diploma or equivalent	5 years or more	None
35-1011	Chefs and Head Cooks	463	481	0.4%	15	43	2	60	\$20.56	High school diploma or equivalent	5 years or more	None
33-1012	First-Line Supervisors of Police and Detectives	182	186	0.2%	5	6	0	11	\$42.66	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	232	251	0.8%	6	8	2	16	\$39.99	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
11-9131	Postmasters and Mail Superintendents	124	104	-1.7%	3	5	-2	6	\$32.66	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7021	Crane and Tower Operators	93	92	-0.1%	3	6	0	9	\$24.35	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	209	208	0.0%	8	15	0	23	\$19.29	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
41-1012	First-Line Supervisors of Non-Retail Sales Workers	1,821	1,779	-0.2%	60	100	-4	156	\$35.75	High school diploma or equivalent	Less than 5 years	None
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	1,168	1,216	0.4%	39	61	5	105	\$30.79	High school diploma or equivalent	Less than 5 years	None
51-1011	First-Line Supervisors of Production and Operating Workers	1,852	1,808	-0.2%	58	117	-4	171	\$29.43	High school diploma or equivalent	Less than 5 years	None
11-9081	Lodging Managers	583	690	1.7%	22	41	11	74	\$28.17	High school diploma or equivalent	Less than 5 years	None
11-9141	Property, Real Estate, and Community Association Managers	1,253	1,332	0.6%	54	43	8	105	\$27.94	High school diploma or equivalent	Less than 5 years	None
43-1011	First-Line Supervisors of Office and Administrative Support Workers	2,035	2,040	0.0%	79	118	0	197	\$27.06	High school diploma or equivalent	Less than 5 years	None
53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	437	453	0.4%	14	31	2	47	\$26.23	High school diploma or equivalent	Less than 5 years	None
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	610	626	0.3%	20	42	2	64	\$26.23	High school diploma or equivalent	Less than 5 years	None
11-9051	Food Service Managers	886	894	0.1%	28	66	1	95	\$25.72	High school diploma or equivalent	Less than 5 years	None
43-6011	Executive Secretaries and Executive Administrative Assistants	2,182	1,748	-2.2%	106	103	-43	166	\$25.72	High school diploma or equivalent	Less than 5 years	None
33-1099	First-Line Supervisors of Protective Service Workers, All Other	121	122	0.1%	6	6	0	12	\$25.34	High school diploma or equivalent	Less than 5 years	None

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	814	858	0.5%	27	50	4	81	\$24.19	High school diploma or equivalent	Less than 5 years	None
41-1011	First-Line Supervisors of Retail Sales Workers	4,754	4,619	-0.3%	173	315	-14	474	\$21.77	High school diploma or equivalent	Less than 5 years	None
39-1021	First-Line Supervisors of Personal Service Workers	962	1,021	0.6%	48	45	6	99	\$20.83	High school diploma or equivalent	Less than 5 years	None
25-3021	Self-Enrichment Education Teachers	1,067	1,148	0.7%	68	52	8	128	\$20.59	High school diploma or equivalent	Less than 5 years	None
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	304	325	0.7%	10	31	2	43	\$20.35	High school diploma or equivalent	Less than 5 years	None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	1,922	2,009	0.4%	88	188	9	285	\$19.88	High school diploma or equivalent	Less than 5 years	None
47-2021	Brickmasons and Blockmasons	168	168	0.0%	5	9	0	14	\$25.69	High school diploma or equivalent	None	Apprenticeship
47-2152	Plumbers, Pipefitters, and Steamfitters	885	935	0.6%	33	61	5	99	\$25.02	High school diploma or equivalent	None	Apprenticeship
47-2111	Electricians	1,353	1,371	0.1%	47	101	2	150	\$24.45	High school diploma or equivalent	None	Apprenticeship
49-9044	Millwrights	96	98	0.2%	3	6	0	9	\$23.05	High school diploma or equivalent	None	Apprenticeship
47-2022	Stonemasons	165	166	0.1%	5	9	0	14	\$21.46	High school diploma or equivalent	None	Apprenticeship
47-2211	Sheet Metal Workers	381	385	0.1%	13	26	0	39	\$20.64	High school diploma or equivalent	None	Apprenticeship
47-2221	Structural Iron and Steel Workers	62	65	0.5%	2	5	0	7	\$20.55	High school diploma or equivalent	None	Apprenticeship
47-2031	Carpenters	6,970	7,038	0.1%	241	389	7	637	\$20.54	High school diploma or equivalent	None	Apprenticeship
49-9094	Locksmiths and Safe Repairers	75	70	-0.7%	4	3	0	7	n/a	High school diploma or equivalent	None	Long-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	410	423	0.3%	10	22	1	33	\$40.55	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	160	134	-1.8%	4	11	-3	12	\$32.28	High school diploma or equivalent	None	Long-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	259	246	-0.5%	6	14	-1	19	\$31.39	High school diploma or equivalent	None	Long-term on-the-job training
51-8013	Power Plant Operators	107	108	0.1%	3	7	0	10	\$29.12	High school diploma or equivalent	None	Long-term on-the-job training
49-9041	Industrial Machinery Mechanics	622	658	0.6%	22	33	4	59	\$25.02	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	76	83	0.9%	3	5	1	9	\$24.17	High school diploma or equivalent	None	Long-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	127	120	-0.6%	5	8	-1	12	\$23.50	High school diploma or equivalent	None	Long-term on-the-job training
51-8031	Water and Wastewater Treatment Plant and System Operators	354	359	0.1%	10	19	0	29	\$23.08	High school diploma or equivalent	None	Long-term on-the-job training
29-2081	Opticians, Dispensing	110	115	0.4%	4	4	0	8	\$22.18	High school diploma or equivalent	None	Long-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	775	830	0.7%	25	46	6	77	\$21.87	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	222	236	0.6%	7	14	1	22	\$21.85	High school diploma or equivalent	None	Long-term on-the-job training

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
51-8021	Stationary Engineers and Boiler Operators	57	54	-0.5%	2	4	0	6	\$21.02	High school diploma or equivalent	None	Long-term on-the-job training
27-4021	Photographers	870	842	-0.3%	37	30	-3	64	\$20.78	High school diploma or equivalent	None	Long-term on-the-job training
51-4041	Machinists	622	580	-0.7%	21	39	-4	56	\$20.04	High school diploma or equivalent	None	Long-term on-the-job training
49-3021	Automotive Body and Related Repairers	730	755	0.3%	26	44	2	72	\$19.82	High school diploma or equivalent	None	Long-term on-the-job training
49-3051	Motorboat Mechanics and Service Technicians	124	123	-0.1%	5	8	0	13	\$18.39	High school diploma or equivalent	None	Long-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	428	388	-1.0%	24	18	-4	38	\$17.57	High school diploma or equivalent	None	Long-term on-the-job training
49-3041	Farm Equipment Mechanics and Service Technicians	132	142	0.7%	4	9	1	14	\$16.16	High school diploma or equivalent	None	Long-term on-the-job training
11-9032	Education Administrators, Elementary and Secondary School	871	848	-0.3%	24	39	-2	61	\$90,800/yr	Master's degree	5 years or more	None
25-9031	Instructional Coordinators	615	633	0.3%	30	26	2	58	\$24.62	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	399	394	-0.1%	11	18	0	29	n/a	Master's degree	Less than 5 years	None
29-1127	Speech-Language Pathologists	418	429	0.3%	8	13	1	22	\$34.34	Master's degree	None	Internship/residency
21-1022	Healthcare Social Workers	450	528	1.6%	18	31	8	57	\$27.03	Master's degree	None	Internship/residency
21-1014	Mental Health Counselors	849	978	1.4%	34	60	13	107	\$19.09	Master's degree	None	Internship/residency
21-1023	Mental Health and Substance Abuse Social Workers	1,086	1,229	1.2%	42	74	14	130	\$18.44	Master's degree	None	Internship/residency
25-1121	Art, Drama, and Music Teachers, Postsecondary	351	352	0.0%	13	13	0	26	n/a	Master's degree	None	None
29-1071	Physician Assistants	320	410	2.5%	6	13	9	28	\$50.35	Master's degree	None	None
29-1171	Nurse Practitioners	547	680	2.2%	12	18	13	43	\$48.87	Master's degree	None	None
29-1161	Nurse Midwives	49	54	1.0%	1	2	0	3	\$43.97	Master's degree	None	None
29-1122	Occupational Therapists	329	384	1.6%	7	10	6	23	\$37.32	Master's degree	None	None
19-3011	Economists	106	109	0.3%	2	6	0	8	\$34.85	Master's degree	None	None
29-1199	Health Diagnosing and Treating Practitioners, All Other	265	286	0.8%	11	3	2	16	\$34.33	Master's degree	None	None
15-2041	Statisticians	40	51	2.5%	1	2	1	4	\$31.71	Master's degree	None	None
19-3051	Urban and Regional Planners	182	196	0.7%	4	11	1	16	\$27.84	Master's degree	None	None
25-4012	Curators	51	56	0.9%	2	3	0	5	\$26.68	Master's degree	None	None
21-1012	Educational, Guidance, School, and Vocational Counselors	805	840	0.4%	30	54	4	88	\$23.39	Master's degree	None	None
25-4011	Archivists	39	42	0.7%	2	2	0	4	\$22.57	Master's degree	None	None
25-4021	Librarians	737	723	-0.2%	40	27	-1	66	\$20.24	Master's degree	None	None
21-1015	Rehabilitation Counselors	643	731	1.3%	25	45	9	79	\$18.62	Master's degree	None	None
35-2014	Cooks, Restaurant	2,553	2,736	0.7%	155	212	18	385	\$14.72	No formal educational credential	Less than 5 years	Moderate-term on-the-job training
51-3021	Butchers and Meat Cutters	205	214	0.4%	9	16	1	26	\$16.48	No formal educational credential	None	Long-term on-the-job training
51-3011	Bakers	756	788	0.4%	50	58	3	111	\$14.49	No formal educational credential	None	Long-term on-the-job training
33-2021	Fire Inspectors and Investigators	33	38	1.4%	2	2	0	4	\$27.25	Postsecondary non-degree award	5 years or more	Moderate-term on-the-job training
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	57	58	0.2%	2	2	0	4	\$31.60	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	253	268	0.6%	8	12	2	22	\$18.97	Postsecondary non-degree award	Less than 5 years	Short-term on-the-job training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	196	202	0.3%	5	12	1	18	\$29.42	Postsecondary non-degree award	None	Long-term on-the-job training
51-4111	Tool and Die Makers	126	110	-1.3%	5	6	-2	9	\$26.19	Postsecondary non-degree award	None	Long-term on-the-job training

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1,095	1,117	0.2%	30	74	2	106	\$23.72	Postsecondary non-degree award	None	Long-term on-the-job training
33-2011	Firefighters	236	245	0.4%	5	10	1	16	\$16.70	Postsecondary non-degree award	None	Long-term on-the-job training
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	95	99	0.4%	3	7	0	10	\$26.78	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	770	643	-1.8%	23	50	-13	60	\$23.71	Postsecondary non-degree award	None	Moderate-term on-the-job training
29-9099	Healthcare Practitioners and Technical Workers, All Other	70	77	1.0%	2	2	1	5	n/a	Postsecondary non-degree award	None	None
49-3011	Aircraft Mechanics and Service Technicians	211	223	0.6%	7	10	1	18	\$29.30	Postsecondary non-degree award	None	None
39-5094	Skincare Specialists	272	280	0.3%	17	14	1	32	\$26.68	Postsecondary non-degree award	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	1,375	1,419	0.3%	49	48	4	101	\$23.40	Postsecondary non-degree award	None	None
29-2099	Health Technologists and Technicians, All Other	185	209	1.2%	6	6	2	14	\$21.55	Postsecondary non-degree award	None	None
31-9091	Dental Assistants	515	532	0.3%	27	30	2	59	\$21.17	Postsecondary non-degree award	None	None
29-2057	Ophthalmic Medical Technicians	215	224	0.4%	7	10	1	18	\$20.76	Postsecondary non-degree award	None	None
51-5111	Prepress Technicians and Workers	58	50	-1.5%	2	4	-1	5	\$20.20	Postsecondary non-degree award	None	None
31-9094	Medical Transcriptionists	179	166	-0.8%	12	9	-1	20	\$19.17	Postsecondary non-degree award	None	None
29-2071	Medical Records and Health Information Technicians	496	546	1.0%	15	16	5	36	\$18.76	Postsecondary non-degree award	None	None
29-2055	Surgical Technologists	78	87	1.1%	3	4	1	8	\$18.73	Postsecondary non-degree award	None	None
31-9011	Massage Therapists	1,085	1,160	0.7%	73	40	8	121	\$17.58	Postsecondary non-degree award	None	None
31-9092	Medical Assistants	659	771	1.6%	31	44	11	86	\$17.45	Postsecondary non-degree award	None	None
31-9097	Phlebotomists	235	266	1.2%	11	14	3	28	\$16.47	Postsecondary non-degree award	None	None
29-2041	Emergency Medical Technicians and Paramedics	489	520	0.6%	9	21	3	33	\$15.67	Postsecondary non-degree award	None	None
25-4031	Library Technicians	544	545	0.0%	43	28	0	71	\$15.62	Postsecondary non-degree award	None	None
31-1014	Nursing Assistants	3,515	3,686	0.5%	219	182	17	418	\$14.38	Postsecondary non-degree award	None	None
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,799	1,848	0.3%	122	91	5	218	\$13.15	Postsecondary non-degree award	None	None
53-3032	Heavy and Tractor-Trailer Truck Drivers	4,351	4,294	-0.1%	183	272	-6	449	\$20.73	Postsecondary non-degree award	None	Short-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	2,636	2,705	0.3%	84	161	7	252	\$19.18	Postsecondary non-degree award	None	Short-term on-the-job training
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	286	262	-0.9%	10	18	-2	26	\$17.93	Postsecondary non-degree award	None	Short-term on-the-job training
27-4011	Audio and Video Equipment Technicians	113	123	0.9%	3	7	1	11	\$17.56	Postsecondary non-degree award	None	Short-term on-the-job training

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
49-3052	Motorcycle Mechanics	42	40	-0.5%	2	2	0	4	\$14.03	Postsecondary non-degree award	None	Short-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	6,075	5,857	-0.4%	369	287	-22	634	\$19.82	Some college, no degree	None	Moderate-term on-the-job training
25-9041	Teacher Assistants	4,863	4,739	-0.3%	264	219	-12	471	\$31,700/yr	Some college, no degree	None	None
15-1151	Computer User Support Specialists	1,243	1,339	0.7%	26	66	10	102	\$23.43	Some college, no degree	None	None
49-2011	Computer, Automated Teller, and Office Machine Repairers	104	98	-0.6%	3	6	-1	8	\$14.76	Some college, no degree	None	Short-term on-the-job training

OCCUPATIONS NOT INCLUDED - Please review

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

n/a - Wage data not available

1 - Occupational Employment and Wages, www.vtlni.info/occupation.cfm#oes. Median wage is an hourly rate except for occupations normally paid an annual rate, as noted. + Wage is equal to or greater than \$100.00 per hour or \$208,000 per year.

Source: Vermont Department of Labor, Economic and Labor Market Information, Employment Projections and Occupational Employment and Wages Programs, in cooperation with the U.S. Bureau of Labor Statistics

released: Projections: July 2018, Wage: April 2019

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
37-2021	Pest Control Workers	83	89	0.7%	3	8	1	12	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	1,951	1,947	0.0%	79	105	0	184	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2021	Coil Winders, Tapers, and Finishers	36	30	-1.8%	2	2	-1	3	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3092	Food Batchmakers	460	461	0.0%	25	38	0	63	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	52	62	1.8%	3	5	1	9	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	1,107	993	-1.1%	29	74	-11	92	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	42	36	-1.5%	1	3	-1	3	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9081	Dental Laboratory Technicians	175	213	2.0%	8	13	4	25	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
53-2012	Commercial Pilots	89	90	0.1%	2	6	0	8	\$80,110/yr	High school diploma or equivalent	None	Moderate-term on-the-job training
27-2023	Umpires, Referees, and Other Sports Officials	74	76	0.3%	4	6	0	10	\$34,440/yr	High school diploma or equivalent	None	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	2,585	2,647	0.2%	86	175	6	267	\$28.76	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	73	75	0.3%	2	6	0	8	\$28.23	High school diploma or equivalent	None	Moderate-term on-the-job training

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	147	152	0.3%	4	7	0	11	\$28.09	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9022	Real Estate Sales Agents	637	630	-0.1%	32	25	-1	56	\$27.11	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4011	Brokerage Clerks	52	55	0.6%	1	4	0	5	\$26.07	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	65	69	0.6%	3	3	0	6	\$25.77	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	1,321	1,344	0.2%	32	52	2	86	\$25.18	High school diploma or equivalent	None	Moderate-term on-the-job training
17-3031	Surveying and Mapping Technicians	153	157	0.3%	5	11	0	16	\$25.01	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3099	Sales Representatives, Services, All Other	1,104	1,150	0.4%	36	97	5	138	\$25.00	High school diploma or equivalent	None	Moderate-term on-the-job training
49-2098	Security and Fire Alarm Systems Installers	74	84	1.3%	3	6	1	10	\$23.86	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2082	Tax Preparers	370	377	0.2%	20	18	1	39	\$23.82	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	451	458	0.2%	16	30	1	47	\$22.72	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6012	Legal Secretaries	358	278	-2.5%	17	17	-8	26	\$22.58	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3011	Advertising Sales Agents	316	285	-1.0%	11	26	-3	34	\$22.26	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	190	176	-0.8%	7	14	-1	20	\$22.19	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	92	74	-2.2%	3	6	-2	7	\$21.85	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	287	286	0.0%	10	15	0	25	\$21.76	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4199	Metal Workers and Plastic Workers, All Other	136	127	-0.7%	5	9	-1	13	\$21.67	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	35	35	0.0%	1	3	0	4	\$21.49	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	337	322	-0.5%	14	18	-2	30	\$20.98	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	74	64	-1.4%	2	6	-1	7	\$20.72	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4031	Court, Municipal, and License Clerks	756	956	2.4%	38	34	20	92	\$20.51	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3061	Procurement Clerks	135	129	-0.5%	6	9	-1	14	\$20.28	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	1,548	1,554	0.0%	66	89	1	156	\$20.25	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	1,194	1,238	0.4%	46	85	4	135	\$20.20	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	447	499	1.1%	37	19	5	61	\$19.83	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	393	384	-0.2%	10	30	-1	39	\$19.63	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3041	Travel Agents	228	195	-1.6%	11	13	-3	21	\$19.56	High school diploma or equivalent	None	Moderate-term on-the-job training

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
43-3011	Bill and Account Collectors	405	385	-0.5%	15	26	-2	39	\$19.43	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	364	345	-0.5%	12	19	-2	29	\$19.38	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9011	Computer Operators	61	47	-2.6%	2	3	-1	4	\$19.33	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	594	606	0.2%	26	34	1	61	\$19.30	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9031	Home Appliance Repairers	145	133	-0.9%	7	6	-1	12	\$19.20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5112	Printing Press Operators	332	322	-0.3%	13	21	-1	33	\$18.93	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2031	Engine and Other Machine Assemblers	48	37	-2.6%	1	3	-1	3	\$18.87	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2022	Electrical and Electronic Equipment Assemblers	129	111	-1.5%	6	8	-2	12	\$18.85	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2023	Electromechanical Equipment Assemblers	69	50	-3.2%	3	4	-2	5	\$18.85	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9071	Maintenance and Repair Workers, General	2,874	3,086	0.7%	121	166	21	308	\$18.75	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3021	Billing and Posting Clerks	1,087	1,176	0.8%	48	62	9	119	\$18.61	High school diploma or equivalent	None	Moderate-term on-the-job training
45-4022	Logging Equipment Operators	280	231	-1.9%	9	23	-5	27	\$18.59	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9011	Animal Control Workers	85	92	0.8%	4	5	1	10	\$18.58	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	883	753	-1.6%	34	63	-13	84	\$18.50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	117	153	2.7%	4	11	4	19	\$18.44	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	329	314	-0.5%	12	21	-2	31	\$18.39	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6013	Medical Secretaries	994	1,126	1.3%	57	56	13	126	\$18.38	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2231	Solar Photovoltaic Installers	406	556	3.2%	19	31	15	65	\$18.27	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	75	56	-2.9%	2	4	-2	4	\$18.26	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	170	139	-2.0%	5	11	-3	13	\$18.21	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	440	388	-1.2%	19	23	-5	37	\$17.99	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	271	290	0.7%	10	21	2	33	\$17.87	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4041	Hazardous Materials Removal Workers	126	141	1.1%	5	10	2	17	\$17.82	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	259	248	-0.4%	7	19	-1	25	\$17.81	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	50	46	-0.8%	1	3	0	4	\$17.77	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	276	224	-2.1%	10	18	-5	23	\$17.73	High school diploma or equivalent	None	Moderate-term on-the-job training

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
45-4023	Log Graders and Scalers	39	30	-2.6%	1	3	-1	3	\$17.63	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	145	148	0.2%	6	8	0	14	\$17.57	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	195	165	-1.7%	6	14	-3	17	\$17.50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	55	47	-1.6%	2	3	-1	4	\$17.46	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	294	300	0.2%	12	18	1	31	\$17.35	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	305	309	0.1%	11	18	0	29	\$17.30	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	98	113	1.4%	5	8	2	15	\$17.27	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5113	Print Binding and Finishing Workers	154	155	0.1%	12	8	0	20	\$16.76	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9093	Medical Equipment Preparers	105	116	1.0%	7	7	1	15	\$16.65	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	312	301	-0.4%	11	23	-1	33	\$15.68	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	214	221	0.3%	8	18	1	27	\$15.62	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2052	Pharmacy Technicians	532	581	0.9%	18	25	5	48	\$15.48	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	1,410	1,429	0.1%	67	94	2	163	\$15.42	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1023	Floral Designers	208	190	-0.9%	7	11	-2	16	\$15.40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6093	Upholsterers	36	32	-1.2%	2	2	0	4	\$14.87	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	132	125	-0.5%	5	10	-1	14	\$14.75	High school diploma or equivalent	None	Moderate-term on-the-job training
39-6012	Concierges	33	35	0.6%	2	3	0	5	\$14.73	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	194	180	-0.7%	5	14	-1	18	\$14.66	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	491	414	-1.7%	17	32	-8	41	\$14.63	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9199	Production Workers, All Other	383	403	0.5%	15	29	2	46	\$14.37	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2092	Team Assemblers	1,372	1,087	-2.3%	52	89	-28	113	\$14.36	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	566	500	-1.2%	23	39	-7	55	\$14.36	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9193	Cooling and Freezing Equipment Operators and Tenders	161	169	0.5%	6	12	1	19	\$14.18	High school diploma or equivalent	None	Moderate-term on-the-job training
39-7011	Tour Guides and Escorts	213	236	1.0%	20	19	2	41	\$12.53	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9099	Healthcare Support Workers, All Other	127	140	1.0%	8	8	1	17	\$19.88	High school diploma or equivalent	None	None
25-3098	Substitute Teachers	3,810	3,752	-0.2%	230	177	-6	401	\$13.45	High school diploma or equivalent	None	None

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33-9032	Security Guards	1,124	1,151	0.2%	68	80	3	151	n/a	High school diploma or equivalent	None	Short-term on-the-job training
33-9099	Protective Service Workers, All Other	197	206	0.4%	28	21	1	50	n/a	High school diploma or equivalent	None	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	185	165	-1.1%	7	5	-2	10	\$28.26	High school diploma or equivalent	None	Short-term on-the-job training
43-5041	Meter Readers, Utilities	63	58	-0.8%	2	2	0	4	\$24.78	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	737	690	-0.7%	28	20	-5	43	\$22.37	High school diploma or equivalent	None	Short-term on-the-job training
43-5051	Postal Service Clerks	429	401	-0.7%	21	11	-3	29	\$21.88	High school diploma or equivalent	None	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	206	220	0.7%	10	13	1	24	\$20.88	High school diploma or equivalent	None	Short-term on-the-job training
43-9199	Office and Administrative Support Workers, All Other	317	323	0.2%	14	20	1	35	\$20.88	High school diploma or equivalent	None	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	230	240	0.4%	9	13	1	23	\$20.18	High school diploma or equivalent	None	Short-term on-the-job training
33-9093	Transportation Security Screeners	81	81	0.0%	4	3	0	7	\$19.90	High school diploma or equivalent	None	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	1,155	1,232	0.6%	78	119	8	205	\$19.85	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	340	365	0.7%	19	22	2	43	\$19.44	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	236	254	0.7%	9	14	2	25	\$19.00	High school diploma or equivalent	None	Short-term on-the-job training
43-5011	Cargo and Freight Agents	59	65	1.0%	2	3	1	6	\$18.47	High school diploma or equivalent	None	Short-term on-the-job training
39-4021	Funeral Attendants	70	65	-0.7%	6	4	0	10	\$18.45	High school diploma or equivalent	None	Short-term on-the-job training
53-3022	Bus Drivers, School or Special Client	1,392	1,436	0.3%	111	58	4	173	\$17.94	High school diploma or equivalent	None	Short-term on-the-job training
27-3099	Media and Communication Workers, All Other	163	176	0.8%	8	7	1	16	\$17.91	High school diploma or equivalent	None	Short-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	47	45	-0.4%	2	3	0	5	\$17.87	High school diploma or equivalent	None	Short-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	6,059	5,444	-1.1%	310	301	-62	549	\$17.41	High school diploma or equivalent	None	Short-term on-the-job training
43-4051	Customer Service Representatives	3,503	3,567	0.2%	181	265	6	452	\$17.17	High school diploma or equivalent	None	Short-term on-the-job training
43-4151	Order Clerks	814	776	-0.5%	37	52	-4	85	\$17.06	High school diploma or equivalent	None	Short-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	131	121	-0.8%	7	7	-1	13	\$16.95	High school diploma or equivalent	None	Short-term on-the-job training
31-2022	Physical Therapist Aides	77	92	1.8%	4	6	2	12	\$16.87	High school diploma or equivalent	None	Short-term on-the-job training
43-9021	Data Entry Keyers	486	375	-2.6%	22	28	-11	39	\$16.51	High school diploma or equivalent	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	2,557	2,823	1.0%	120	192	27	339	\$16.41	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	1,755	1,665	-0.5%	100	98	-9	189	\$16.37	High school diploma or equivalent	None	Short-term on-the-job training

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43-5071	Shipping, Receiving, and Traffic Clerks	1,742	1,698	-0.3%	67	102	-4	165	\$16.27	High school diploma or equivalent	None	Short-term on-the-job training
39-9041	Residential Advisors	408	421	0.3%	28	41	1	70	\$16.18	High school diploma or equivalent	None	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	2,556	2,584	0.1%	160	171	3	334	\$15.72	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	442	467	0.6%	21	20	2	43	\$15.72	High school diploma or equivalent	None	Short-term on-the-job training
53-3033	Light Truck or Delivery Services Drivers	2,658	2,680	0.1%	113	168	2	283	\$15.43	High school diploma or equivalent	None	Short-term on-the-job training
53-3031	Driver/Sales Workers	833	837	0.0%	35	52	0	87	\$15.32	High school diploma or equivalent	None	Short-term on-the-job training
21-1094	Community Health Workers	398	445	1.1%	19	31	5	55	\$14.78	High school diploma or equivalent	None	Short-term on-the-job training
43-3071	Tellers	1,121	985	-1.3%	54	68	-14	108	\$14.51	High school diploma or equivalent	None	Short-term on-the-job training
49-3093	Tire Repairers and Changers	118	114	-0.3%	4	10	0	14	\$14.50	High school diploma or equivalent	None	Short-term on-the-job training
51-7021	Furniture Finishers	274	232	-1.7%	14	9	-4	19	\$14.38	High school diploma or equivalent	None	Short-term on-the-job training
43-2011	Switchboard Operators, Including Answering Service	207	162	-2.4%	12	12	-4	20	\$14.30	High school diploma or equivalent	None	Short-term on-the-job training
27-1026	Merchandise Displayers and Window Trimmers	209	208	0.0%	7	12	0	19	\$14.29	High school diploma or equivalent	None	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	121	137	1.2%	7	12	2	21	\$14.23	High school diploma or equivalent	None	Short-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Workers	158	165	0.4%	8	12	1	21	\$14.18	High school diploma or equivalent	None	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	87	66	-2.7%	3	5	-2	6	\$14.15	High school diploma or equivalent	None	Short-term on-the-job training
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	200	212	0.6%	9	12	1	22	\$14.03	High school diploma or equivalent	None	Short-term on-the-job training
51-9198	Helpers--Production Workers	532	646	2.0%	32	56	11	99	\$13.96	High school diploma or equivalent	None	Short-term on-the-job training
39-9099	Personal Care and Service Workers, All Other	69	71	0.3%	5	5	0	10	\$13.60	High school diploma or equivalent	None	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	50	55	1.0%	2	5	0	7	\$13.54	High school diploma or equivalent	None	Short-term on-the-job training
31-1011	Home Health Aides	572	763	2.9%	41	34	19	94	\$13.41	High school diploma or equivalent	None	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	2,702	2,784	0.3%	150	195	8	353	\$13.35	High school diploma or equivalent	None	Short-term on-the-job training
39-9011	Childcare Workers	2,905	2,908	0.0%	237	180	0	417	\$13.27	High school diploma or equivalent	None	Short-term on-the-job training
39-9021	Personal Care Aides	7,539	9,777	2.6%	691	520	224	1,435	\$13.24	High school diploma or equivalent	None	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	940	1,004	0.7%	54	96	6	156	\$13.09	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	286	295	0.3%	23	18	1	42	\$12.94	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	1,418	1,528	0.7%	96	147	11	254	\$12.91	High school diploma or equivalent	None	Short-term on-the-job training

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
39-2021	Nonfarm Animal Caretakers	722	828	1.4%	53	62	11	126	\$11.91	High school diploma or equivalent	None	Short-term on-the-job training
39-6011	Baggage Porters and Bellhops	156	166	0.6%	8	14	1	23	\$11.64	High school diploma or equivalent	None	Short-term on-the-job training
31-9095	Pharmacy Aides	210	184	-1.3%	13	13	-3	23	\$11.28	High school diploma or equivalent	None	Short-term on-the-job training
47-2082	Tapers	79	75	-0.5%	2	4	0	6	n/a	No formal educational credential	None	Moderate-term on-the-job training
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	87	86	-0.1%	3	4	0	7	\$22.35	No formal educational credential	None	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	326	306	-0.6%	10	18	-2	26	\$21.71	No formal educational credential	None	Moderate-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	269	278	0.3%	10	19	1	30	\$19.47	No formal educational credential	None	Moderate-term on-the-job training
47-2141	Painters, Construction and Maintenance	1,922	1,868	-0.3%	65	94	-5	154	\$18.47	No formal educational credential	None	Moderate-term on-the-job training
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	167	161	-0.4%	7	12	-1	18	\$17.98	No formal educational credential	None	Moderate-term on-the-job training
41-2022	Parts Salespersons	589	586	-0.1%	26	46	0	72	\$16.93	No formal educational credential	None	Moderate-term on-the-job training
47-2181	Roofers	498	508	0.2%	14	34	1	49	\$16.60	No formal educational credential	None	Moderate-term on-the-job training
51-3099	Food Processing Workers, All Other	57	57	0.0%	2	4	0	6	\$16.38	No formal educational credential	None	Moderate-term on-the-job training
35-2019	Cooks, All Other	40	42	0.5%	2	3	0	5	\$16.11	No formal educational credential	None	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	128	100	-2.4%	4	8	-3	9	\$13.92	No formal educational credential	None	Moderate-term on-the-job training
41-9041	Telemarketers	67	62	-0.8%	4	6	0	10	n/a	No formal educational credential	None	Short-term on-the-job training
47-2041	Carpet Installers	136	134	-0.1%	4	7	0	11	\$20.63	No formal educational credential	None	Short-term on-the-job training
47-2131	Insulation Workers, Floor, Ceiling, and Wall	151	147	-0.3%	4	11	0	15	\$18.42	No formal educational credential	None	Short-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	860	887	0.3%	30	65	3	98	\$18.26	No formal educational credential	None	Short-term on-the-job training
47-2151	Pipelayers	58	64	1.0%	2	4	1	7	\$18.23	No formal educational credential	None	Short-term on-the-job training
35-3011	Bartenders	1,973	1,988	0.1%	95	227	2	324	\$17.31	No formal educational credential	None	Short-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	236	245	0.4%	11	18	1	30	\$16.94	No formal educational credential	None	Short-term on-the-job training
47-2061	Construction Laborers	2,634	2,658	0.1%	92	174	2	268	\$16.89	No formal educational credential	None	Short-term on-the-job training
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	141	147	0.4%	6	14	1	21	\$16.61	No formal educational credential	None	Short-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	719	811	1.2%	35	56	9	100	\$16.27	No formal educational credential	None	Short-term on-the-job training
47-3012	Helpers--Carpenters	195	207	0.6%	8	19	1	28	\$15.89	No formal educational credential	None	Short-term on-the-job training
51-9031	Cutters and Trimmers, Hand	85	80	-0.6%	3	6	0	9	\$15.76	No formal educational credential	None	Short-term on-the-job training

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
41-2021	Counter and Rental Clerks	931	946	0.2%	49	69	2	120	\$15.63	No formal educational credential	None	Short-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	787	936	1.7%	32	98	15	145	\$15.56	No formal educational credential	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	5,628	5,952	0.6%	429	657	32	1,118	\$15.33	No formal educational credential	None	Short-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	4,995	5,321	0.6%	241	368	33	642	\$15.07	No formal educational credential	None	Short-term on-the-job training
33-9091	Crossing Guards	433	458	0.6%	62	18	2	82	\$14.84	No formal educational credential	None	Short-term on-the-job training
53-7011	Conveyor Operators and Tenders	64	56	-1.3%	3	5	-1	7	\$14.83	No formal educational credential	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	1,128	1,176	0.4%	68	92	5	165	\$14.74	No formal educational credential	None	Short-term on-the-job training
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	5,517	5,781	0.5%	368	355	26	749	\$14.15	No formal educational credential	None	Short-term on-the-job training
47-3016	Helpers--Roofers	65	68	0.5%	3	6	0	9	\$14.11	No formal educational credential	None	Short-term on-the-job training
51-3023	Slaughterers and Meat Packers	42	42	0.0%	2	3	0	5	\$14.09	No formal educational credential	None	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	591	623	0.5%	31	53	3	87	\$13.72	No formal educational credential	None	Short-term on-the-job training
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	1,151	1,361	1.7%	46	143	21	210	\$13.57	No formal educational credential	None	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	2,889	2,991	0.3%	146	251	10	407	\$13.45	No formal educational credential	None	Short-term on-the-job training
35-2015	Cooks, Short Order	538	508	-0.6%	31	42	-3	70	\$13.39	No formal educational credential	None	Short-term on-the-job training
41-9011	Demonstrators and Product Promoters	86	87	0.1%	9	6	0	15	\$13.21	No formal educational credential	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	764	795	0.4%	53	64	3	120	\$13.15	No formal educational credential	None	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	366	381	0.4%	28	26	2	56	\$13.08	No formal educational credential	None	Short-term on-the-job training
41-2031	Retail Salespersons	9,834	9,612	-0.2%	616	772	-22	1,366	\$12.72	No formal educational credential	None	Short-term on-the-job training
53-6021	Parking Lot Attendants	133	144	0.8%	8	12	1	21	\$12.70	No formal educational credential	None	Short-term on-the-job training
51-6031	Sewing Machine Operators	276	261	-0.6%	15	13	-2	26	\$12.52	No formal educational credential	None	Short-term on-the-job training
35-9099	Food Preparation and Serving Related Workers, All Other	76	78	0.3%	7	6	0	13	\$12.50	No formal educational credential	None	Short-term on-the-job training
35-2021	Food Preparation Workers	1,782	1,846	0.4%	145	157	6	308	\$12.42	No formal educational credential	None	Short-term on-the-job training
45-2041	Graders and Sorters, Agricultural Products	366	365	0.0%	15	34	0	49	\$12.34	No formal educational credential	None	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	1,886	2,105	1.1%	118	81	22	221	\$12.29	No formal educational credential	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	4,007	4,161	0.4%	302	228	15	545	\$12.17	No formal educational credential	None	Short-term on-the-job training
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	1,072	1,092	0.2%	96	86	2	184	\$12.16	No formal educational credential	None	Short-term on-the-job training

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
35-9021	Dishwashers	1,437	1,443	0.0%	106	115	1	222	\$11.95	No formal educational credential	None	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	50	56	1.1%	7	6	1	14	\$11.93	No formal educational credential	None	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	6,291	6,939	1.0%	586	613	65	1,264	\$11.91	No formal educational credential	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	408	443	0.8%	45	51	4	100	\$11.75	No formal educational credential	None	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	615	636	0.3%	72	68	2	142	\$11.74	No formal educational credential	None	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	364	392	0.7%	52	40	3	95	\$11.70	No formal educational credential	None	Short-term on-the-job training
41-2011	Cashiers	9,934	9,558	-0.4%	915	893	-38	1,770	\$11.57	No formal educational credential	None	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,142	1,146	0.0%	137	108	0	245	\$11.54	No formal educational credential	None	Short-term on-the-job training
35-2011	Cooks, Fast Food	665	607	-0.9%	37	51	-6	82	\$11.47	No formal educational credential	None	Short-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	587	572	-0.3%	39	39	-2	76	\$11.46	No formal educational credential	None	Short-term on-the-job training

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

n/a - Wage data not available

1 - Occupational Employment and Wages, www.vtlmi.info/occupation.cfm#oes. Median wage is an hourly rate except for occupations normally paid an annual rate, as noted. + Wage is equal to or greater than \$100.00 per hour or \$208,000 per year.

Source: Vermont Department of Labor, Economic and Labor Market Information, Employment Projections and Occupational Employment and Wages Programs, in cooperation with the U.S. Bureau of Labor Statistics

released: Projections: July 2018, Wage: April 2019

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
00-0000	Total, All Occupations	371,407	381,799	0.3%	17,696	22,793	1,039	41,528	\$19.10			
11-0000	Management Occupations											
11-1011	Chief Executives	533	496	-0.7%	15	21	-4	32	\$53.61	Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	2,871	3,084	0.7%	62	178	21	261	\$37.35	Bachelor's degree	5 years or more	None
11-2011	Advertising and Promotions Managers	49	48	-0.2%	1	4	0	5	\$46.47	Bachelor's degree	Less than 5 years	None
11-2021	Marketing Managers	418	455	0.9%	10	26	4	40	\$52.49	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	528	545	0.3%	12	33	2	47	\$54.43	Bachelor's degree	Less than 5 years	None
11-2031	Public Relations and Fundraising Managers	204	210	0.3%	5	12	1	18	\$43.00	Bachelor's degree	5 years or more	None
11-3011	Administrative Services Managers	425	456	0.7%	13	22	3	38	\$36.20	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	351	372	0.6%	6	20	2	28	\$53.91	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	803	910	1.3%	20	42	11	73	\$48.90	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	413	397	-0.4%	9	18	-2	25	\$52.57	Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	155	159	0.3%	5	8	0	13	\$49.58	Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	130	141	0.8%	3	7	1	11	\$39.94	High school diploma or equivalent	5 years or more	None
11-3121	Human Resources Managers	226	234	0.3%	6	12	1	19	\$44.69	Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	47	49	0.4%	1	3	0	4	\$38.77	Bachelor's degree	5 years or more	None
11-9013	Farmers, Ranchers, and Other Agricultural Managers	5,835	6,123	0.5%	350	89	29	468	\$37.71	High school diploma or equivalent	5 years or more	None
11-9021	Construction Managers	1,328	1,391	0.5%	31	60	6	97	\$42.06	Bachelor's degree	None	Moderate-term on-the-job training
11-9031	Education Administrators, Preschool and Childcare Center/Program	371	377	0.2%	10	17	1	28	\$23.13	Bachelor's degree	Less than 5 years	None
11-9032	Education Administrators, Elementary and Secondary School	871	848	-0.3%	24	39	-2	61	\$90,800/yr	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	399	394	-0.1%	11	18	0	29	n/a	Master's degree	Less than 5 years	None
11-9039	Education Administrators, All Other	115	119	0.3%	3	5	0	8	\$34.50	Bachelor's degree	Less than 5 years	None
11-9041	Architectural and Engineering Managers	266	268	0.1%	5	13	0	18	\$58.62	Bachelor's degree	5 years or more	None
11-9051	Food Service Managers	886	894	0.1%	28	66	1	95	\$25.72	High school diploma or equivalent	Less than 5 years	None
11-9081	Lodging Managers	583	690	1.7%	22	41	11	74	\$28.17	High school diploma or equivalent	Less than 5 years	None
11-9111	Medical and Health Services Managers	844	974	1.4%	25	44	13	82	\$41.65	Bachelor's degree	Less than 5 years	None
11-9121	Natural Sciences Managers	75	81	0.8%	2	4	1	7	\$44.55	Bachelor's degree	5 years or more	None
11-9131	Postmasters and Mail Superintendents	124	104	-1.7%	3	5	-2	6	\$32.66	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
11-9141	Property, Real Estate, and Community Association Managers	1,253	1,332	0.6%	54	43	8	105	\$27.94	High school diploma or equivalent	Less than 5 years	None
11-9151	Social and Community Service Managers	723	814	1.2%	25	40	9	74	\$29.39	Bachelor's degree	Less than 5 years	None
11-9161	Emergency Management Directors	30	32	0.6%	1	1	0	2	\$35.62	Bachelor's degree	5 years or more	None
11-9199	Managers, All Other	2,665	2,660	0.0%	72	112	0	184	\$48.94	Bachelor's degree	Less than 5 years	None
13-0000	Business and Financial Operations Occupations											
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	46	50	0.8%	2	4	0	6	\$88.37	Bachelor's degree	Less than 5 years	None
13-1021	Buyers and Purchasing Agents, Farm Products	117	110	-0.6%	5	8	-1	12	\$25.26	Bachelor's degree	None	Moderate-term on-the-job training

Occupational Projections 2016-2026

Vermont Statewide

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
13-1022	Wholesale and Retail Buyers, Except Farm Products	547	508	-0.7%	21	38	-4	55	\$25.26	Bachelor's degree	None	Moderate-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	557	520	-0.7%	16	30	-4	42	\$25.26	Bachelor's degree	None	Moderate-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	259	246	-0.5%	6	14	-1	19	\$31.39	High school diploma or equivalent	None	Long-term on-the-job training
13-1041	Compliance Officers	2,248	2,475	1.0%	66	119	23	208	\$35.12	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	354	363	0.3%	11	23	1	35	\$30.27	Bachelor's degree	None	Moderate-term on-the-job training
13-1071	Human Resources Specialists	1,113	1,170	0.5%	33	75	6	114	\$26.90	Bachelor's degree	None	None
13-1075	Labor Relations Specialists	140	120	-1.5%	4	8	-2	10	\$29.42	Bachelor's degree	Less than 5 years	None
13-1081	Logisticians	158	171	0.8%	4	12	1	17	\$31.96	Bachelor's degree	None	None
13-1111	Management Analysts	1,000	1,096	0.9%	34	54	10	98	\$36.79	Bachelor's degree	Less than 5 years	None
13-1121	Meeting, Convention, and Event Planners	389	432	1.1%	16	31	4	51	\$21.76	Bachelor's degree	None	None
13-1131	Fundraisers	466	497	0.6%	15	32	3	50	\$23.77	Bachelor's degree	None	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	190	198	0.4%	5	10	1	16	\$28.00	Bachelor's degree	Less than 5 years	None
13-1151	Training and Development Specialists	693	737	0.6%	22	46	4	72	\$27.80	Bachelor's degree	Less than 5 years	None
13-1161	Market Research Analysts and Marketing Specialists	1,694	2,017	1.8%	49	127	32	208	\$27.64	Bachelor's degree	None	None
13-1199	Business Operations Specialists, All Other	962	1,025	0.6%	31	57	6	94	\$30.78	Bachelor's degree	None	None
13-2011	Accountants and Auditors	3,713	3,923	0.6%	113	220	21	354	\$32.36	Bachelor's degree	None	None
13-2021	Appraisers and Assessors of Real Estate	242	258	0.6%	9	7	2	18	\$24.52	Bachelor's degree	None	Long-term on-the-job training
13-2031	Budget Analysts	88	94	0.7%	2	4	1	7	\$33.90	Bachelor's degree	None	None
13-2041	Credit Analysts	100	102	0.2%	2	6	0	8	\$30.03	Bachelor's degree	None	None
13-2051	Financial Analysts	177	189	0.7%	4	12	1	17	\$35.85	Bachelor's degree	None	None
13-2052	Personal Financial Advisors	671	718	0.7%	17	34	5	56	\$32.86	Bachelor's degree	None	Long-term on-the-job training
13-2053	Insurance Underwriters	186	160	-1.5%	4	9	-3	10	\$28.08	Bachelor's degree	None	Moderate-term on-the-job training
13-2061	Financial Examiners	54	57	0.5%	2	2	0	4	\$36.50	Bachelor's degree	None	Long-term on-the-job training
13-2071	Credit Counselors	40	42	0.5%	1	2	0	3	n/a	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	615	652	0.6%	15	35	4	54	\$28.20	Bachelor's degree	None	Moderate-term on-the-job training
13-2081	Tax Examiners and Collectors, and Revenue Agents	108	114	0.5%	3	4	1	8	\$25.86	Bachelor's degree	None	Moderate-term on-the-job training
13-2082	Tax Preparers	370	377	0.2%	20	18	1	39	\$23.82	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	133	146	0.9%	4	7	1	12	\$33.43	Bachelor's degree	None	Moderate-term on-the-job training
15-0000	Computer and Mathematical Occupations											
15-1121	Computer Systems Analysts	509	546	0.7%	10	24	4	38	\$36.72	Bachelor's degree	None	None
15-1122	Information Security Analysts	82	87	0.6%	2	4	0	6	\$38.66	Bachelor's degree	Less than 5 years	None
15-1131	Computer Programmers	484	430	-1.2%	8	20	-5	23	\$35.42	Bachelor's degree	None	None

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

n/a - Wage data not available

1 - Occupational Employment and Wages, www.vtlmi.info/occupation.cfm#oes. Median wage is an hourly rate except for occupations normally paid an annual rate, as noted. + Wage is equal to or greater than \$100.00 per hour or \$208,000 per year.

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released: Projections: July 2018, Wage: April 2019

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
15-1132	Software Developers, Applications	1,103	1,384	2.3%	17	61	28	106	\$45.68	Bachelor's degree	None	None
15-1133	Software Developers, Systems Software	927	1,033	1.1%	13	48	11	72	\$51.75	Bachelor's degree	None	None
15-1134	Web Developers	861	936	0.8%	17	46	8	71	\$26.43	Associate's degree	None	None
15-1141	Database Administrators	236	251	0.6%	5	10	2	17	\$35.09	Bachelor's degree	None	None
15-1142	Network and Computer Systems Administrators	1,363	1,385	0.2%	19	65	2	86	\$34.32	Bachelor's degree	None	None
15-1143	Computer Network Architects	154	156	0.1%	2	8	0	10	\$38.00	Bachelor's degree	5 years or more	None
15-1151	Computer User Support Specialists	1,243	1,339	0.7%	26	66	10	102	\$23.43	Some college, no degree	None	None
15-1152	Computer Network Support Specialists	355	383	0.8%	8	19	3	30	\$22.99	Associate's degree	None	None
15-1199	Computer Occupations, All Other	207	224	0.8%	4	10	2	16	\$34.37	Bachelor's degree	None	None
15-2031	Operations Research Analysts	59	72	2.0%	1	2	1	4	\$39.16	Bachelor's degree	None	None
15-2041	Statisticians	40	51	2.5%	1	2	1	4	\$31.71	Master's degree	None	None
17-0000 Architecture and Engineering Occupations												
17-1011	Architects, Except Landscape and Naval	432	422	-0.2%	11	19	-1	29	\$33.21	Bachelor's degree	None	Internship/residency
17-1012	Landscape Architects	224	226	0.1%	6	10	0	16	\$24.58	Bachelor's degree	None	Internship/residency
17-1021	Cartographers and Photogrammetrists	43	50	1.5%	1	2	1	4	\$29.27	Bachelor's degree	None	None
17-1022	Surveyors	107	111	0.4%	3	4	0	7	\$25.10	Bachelor's degree	None	Internship/residency
17-2051	Civil Engineers	822	869	0.6%	18	42	5	65	\$34.64	Bachelor's degree	None	None
17-2071	Electrical Engineers	502	535	0.6%	12	21	3	36	\$48.70	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	68	71	0.4%	2	3	0	5	\$49.43	Bachelor's degree	None	None
17-2081	Environmental Engineers	110	118	0.7%	3	5	1	9	\$40.38	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	66	66	0.0%	2	3	0	5	\$39.88	Bachelor's degree	None	None
17-2112	Industrial Engineers	542	549	0.1%	12	22	1	35	\$36.66	Bachelor's degree	None	None
17-2141	Mechanical Engineers	493	508	0.3%	10	21	2	33	\$41.75	Bachelor's degree	None	None
17-2199	Engineers, All Other	71	70	-0.1%	2	3	0	5	\$37.10	Bachelor's degree	None	None
17-3011	Architectural and Civil Drafters	201	199	-0.1%	6	11	0	17	\$21.55	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	44	47	0.7%	1	2	0	3	\$37.05	Associate's degree	None	None
17-3013	Mechanical Drafters	91	86	-0.6%	3	5	0	8	\$23.54	Associate's degree	None	None
17-3019	Drafters, All Other	45	43	-0.5%	1	2	0	3	\$25.40	Associate's degree	None	None
17-3022	Civil Engineering Technicians	389	413	0.6%	13	21	2	36	\$24.82	Associate's degree	None	None
17-3023	Electrical and Electronics Engineering Technicians	319	302	-0.5%	10	16	-2	24	\$37.94	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	91	102	1.1%	3	5	1	9	\$23.80	Associate's degree	None	None
17-3026	Industrial Engineering Technicians	1,245	1,163	-0.7%	38	63	-8	93	\$30.42	Associate's degree	None	None
17-3027	Mechanical Engineering Technicians	41	40	-0.2%	1	2	0	3	\$23.58	Associate's degree	None	None
17-3029	Engineering Technicians, Except Drafters, All Other	35	34	-0.3%	1	2	0	3	\$27.13	Associate's degree	None	None
17-3031	Surveying and Mapping Technicians	153	157	0.3%	5	11	0	16	\$25.01	High school diploma or equivalent	None	Moderate-term on-the-job training
19-0000 Life, Physical, and Social Science Occupations												
19-1012	Food Scientists and Technologists	67	66	-0.2%	2	5	0	7	\$39.58	Bachelor's degree	None	None
19-1022	Microbiologists	40	42	0.5%	1	3	0	4	\$27.19	Bachelor's degree	None	None
19-1023	Zoologists and Wildlife Biologists	122	131	0.7%	3	8	1	12	\$32.81	Bachelor's degree	None	None
19-1031	Conservation Scientists	114	122	0.7%	2	7	1	10	\$24.48	Bachelor's degree	None	None
19-1032	Foresters	84	84	0.0%	2	5	0	7	\$30.82	Bachelor's degree	None	None

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

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released: Projections: July 2018, Wage: April 2019

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
19-2031	Chemists	173	189	0.9%	5	11	2	18	\$30.81	Bachelor's degree	None	None
19-2041	Environmental Scientists and Specialists, Including Health	476	509	0.7%	11	34	3	48	\$30.32	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	49	52	0.6%	1	4	0	5	\$29.24	Bachelor's degree	None	None
19-3011	Economists	106	109	0.3%	2	6	0	8	\$34.85	Master's degree	None	None
19-3031	Clinical, Counseling, and School Psychologists	783	825	0.5%	20	31	4	55	\$29.13	Doctoral or professional degree	None	Internship/residency
19-3051	Urban and Regional Planners	182	196	0.7%	4	11	1	16	\$27.84	Master's degree	None	None
19-3099	Social Scientists and Related Workers, All Other	41	45	0.9%	1	3	0	4	\$37.10	Bachelor's degree	None	None
19-4021	Biological Technicians	114	125	0.9%	3	8	1	12	\$19.89	Bachelor's degree	None	None
19-4031	Chemical Technicians	72	73	0.1%	2	4	0	6	\$24.68	Associate's degree	None	Moderate-term on-the-job training
19-4091	Environmental Science and Protection Technicians, Including Health	85	98	1.4%	4	7	1	12	\$17.47	Associate's degree	None	None
19-4099	Life, Physical, and Social Science Technicians, All Other	64	69	0.8%	3	5	0	8	\$21.67	Associate's degree	None	None
21-0000	Community and Social Service Occupations											
21-1011	Substance Abuse and Behavioral Disorder Counselors	427	493	1.4%	17	30	7	54	\$19.09	Bachelor's degree	None	None
21-1012	Educational, Guidance, School, and Vocational Counselors	805	840	0.4%	30	54	4	88	\$23.39	Master's degree	None	None
21-1014	Mental Health Counselors	849	978	1.4%	34	60	13	107	\$19.09	Master's degree	None	Internship/residency
21-1015	Rehabilitation Counselors	643	731	1.3%	25	45	9	79	\$18.62	Master's degree	None	None
21-1021	Child, Family, and School Social Workers	1,609	1,777	1.0%	61	108	17	186	\$23.90	Bachelor's degree	None	None
21-1022	Healthcare Social Workers	450	528	1.6%	18	31	8	57	\$27.03	Master's degree	None	Internship/residency
21-1023	Mental Health and Substance Abuse Social Workers	1,086	1,229	1.2%	42	74	14	130	\$18.44	Master's degree	None	Internship/residency
21-1029	Social Workers, All Other	106	118	1.1%	4	7	1	12	\$33.36	Bachelor's degree	None	None
21-1091	Health Educators	214	229	0.7%	10	16	2	28	\$26.61	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	216	228	0.5%	7	12	1	20	\$30.83	Bachelor's degree	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	2,557	2,823	1.0%	120	192	27	339	\$16.41	High school diploma or equivalent	None	Short-term on-the-job training
21-1094	Community Health Workers	398	445	1.1%	19	31	5	55	\$14.78	High school diploma or equivalent	None	Short-term on-the-job training
21-1099	Community and Social Service Specialists, All Other	504	555	1.0%	24	39	5	68	\$17.64	Bachelor's degree	None	None
21-2011	Clergy	1,145	1,151	0.1%	53	70	1	124	\$24.67	Bachelor's degree	None	Moderate-term on-the-job training
23-0000	Legal Occupations											
23-1011	Lawyers	1,947	1,970	0.1%	39	42	2	83	\$41.98	Doctoral or professional degree	None	None
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	50	50	0.0%	1	1	0	2	\$30.81	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-1023	Judges, Magistrate Judges, and Magistrates	95	95	0.0%	2	2	0	4	n/a	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-2011	Paralegals and Legal Assistants	705	764	0.8%	24	49	6	79	\$23.85	Associate's degree	None	None
23-2099	Legal Support Workers, All Other	98	107	0.9%	4	5	1	10	\$25.99	Associate's degree	None	None
25-0000	Education, Training, and Library Occupations											
25-1011	Business Teachers, Postsecondary	184	195	0.6%	7	7	1	15	n/a	Doctoral or professional degree	None	None

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
25-1021	Computer Science Teachers, Postsecondary	77	75	-0.3%	3	3	0	6	n/a	Doctoral or professional degree	None	None
25-1022	Mathematical Science Teachers, Postsecondary	197	193	-0.2%	7	7	0	14	n/a	Doctoral or professional degree	None	None
25-1042	Biological Science Teachers, Postsecondary	237	245	0.3%	9	9	1	19	n/a	Doctoral or professional degree	None	None
25-1054	Physics Teachers, Postsecondary	46	46	0.0%	2	2	0	4	n/a	Doctoral or professional degree	None	None
25-1063	Economics Teachers, Postsecondary	119	118	-0.1%	4	4	0	8	n/a	Doctoral or professional degree	None	None
25-1064	Geography Teachers, Postsecondary	41	40	-0.2%	2	2	0	4	n/a	Doctoral or professional degree	None	None
25-1067	Sociology Teachers, Postsecondary	94	92	-0.2%	3	4	0	7	n/a	Doctoral or professional degree	None	None
25-1071	Health Specialties Teachers, Postsecondary	103	117	1.3%	4	4	1	9	n/a	Doctoral or professional degree	Less than 5 years	None
25-1081	Education Teachers, Postsecondary	177	175	-0.1%	6	7	0	13	n/a	Doctoral or professional degree	Less than 5 years	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	351	352	0.0%	13	13	0	26	n/a	Master's degree	None	None
25-1122	Communications Teachers, Postsecondary	105	103	-0.2%	4	4	0	8	n/a	Doctoral or professional degree	None	None
25-1123	English Language and Literature Teachers, Postsecondary	553	544	-0.2%	20	21	-1	40	n/a	Doctoral or professional degree	None	None
25-1124	Foreign Language and Literature Teachers, Postsecondary	270	271	0.0%	10	10	0	20	n/a	Doctoral or professional degree	None	None
25-1125	History Teachers, Postsecondary	196	194	-0.1%	7	7	0	14	n/a	Doctoral or professional degree	None	None
25-1126	Philosophy and Religion Teachers, Postsecondary	173	176	0.2%	6	7	0	13	n/a	Doctoral or professional degree	None	None
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	42	41	-0.2%	2	2	0	4	n/a	Doctoral or professional degree	None	None
25-1194	Vocational Education Teachers, Postsecondary	108	99	-0.9%	4	4	-1	7	\$26.40	Bachelor's degree	Less than 5 years	None
25-1199	Postsecondary Teachers, All Other	302	296	-0.2%	11	11	-1	21	n/a	Doctoral or professional degree	None	None
25-2011	Preschool Teachers, Except Special Education	1,144	1,159	0.1%	50	62	2	114	\$15.64	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	361	349	-0.3%	15	19	-1	33	\$55,780/yr	Bachelor's degree	None	None
25-2021	Elementary School Teachers, Except Special Education	3,462	3,330	-0.4%	112	126	-13	225	\$59,100/yr	Bachelor's degree	None	None
25-2022	Middle School Teachers, Except Special and Career/Technical Education	987	951	-0.4%	32	36	-4	64	\$57,230/yr	Bachelor's degree	None	None
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	2,440	2,360	-0.3%	74	90	-8	156	\$63,890/yr	Bachelor's degree	None	None
25-2032	Career/Technical Education Teachers, Secondary School	236	226	-0.4%	7	9	-1	15	\$62,110/yr	Bachelor's degree	Less than 5 years	None
25-2051	Special Education Teachers, Preschool	94	94	0.0%	3	3	0	6	\$60,850/yr	Bachelor's degree	None	None
25-2052	Special Education Teachers, Kindergarten and Elementary School	739	712	-0.4%	24	26	-3	47	\$59,860/yr	Bachelor's degree	None	None
25-2053	Special Education Teachers, Middle School	229	221	-0.4%	8	8	-1	15	\$61,910/yr	Bachelor's degree	None	None
25-2054	Special Education Teachers, Secondary School	471	471	0.0%	16	17	0	33	\$61,780/yr	Bachelor's degree	None	None

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

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2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	151	136	-1.0%	9	7	-2	14	\$26.80	Bachelor's degree	None	None
25-3021	Self-Enrichment Education Teachers	1,067	1,148	0.7%	68	52	8	128	\$20.59	High school diploma or equivalent	Less than 5 years	None
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	415	419	0.1%	25	20	0	45	\$38,030/yr	Bachelor's degree	None	None
25-3098	Substitute Teachers	3,810	3,752	-0.2%	230	177	-6	401	\$13.45	High school diploma or equivalent	None	None
25-4011	Archivists	39	42	0.7%	2	2	0	4	\$22.57	Master's degree	None	None
25-4012	Curators	51	56	0.9%	2	3	0	5	\$26.68	Master's degree	None	None
25-4013	Museum Technicians and Conservators	38	43	1.2%	2	2	0	4	\$18.64	Bachelor's degree	None	None
25-4021	Librarians	737	723	-0.2%	40	27	-1	66	\$20.24	Master's degree	None	None
25-4031	Library Technicians	544	545	0.0%	43	28	0	71	\$15.62	Postsecondary non-degree award	None	None
25-9031	Instructional Coordinators	615	633	0.3%	30	26	2	58	\$24.62	Master's degree	5 years or more	None
25-9041	Teacher Assistants	4,863	4,739	-0.3%	264	219	-12	471	\$31,700/yr	Some college, no degree	None	None
25-9099	Education, Training, and Library Workers, All Other	90	92	0.2%	4	4	0	8	\$25.86	Bachelor's degree	None	None
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations											
27-1011	Art Directors	399	386	-0.3%	19	12	-1	30	\$40.82	Bachelor's degree	5 years or more	None
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	113	112	-0.1%	6	3	0	9	\$20.52	Bachelor's degree	None	Long-term on-the-job training
27-1021	Commercial and Industrial Designers	266	262	-0.2%	9	15	0	24	\$30.60	Bachelor's degree	None	None
27-1022	Fashion Designers	53	54	0.2%	2	3	0	5	\$37.71	Bachelor's degree	None	None
27-1023	Floral Designers	208	190	-0.9%	7	11	-2	16	\$15.40	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1024	Graphic Designers	876	880	0.0%	31	49	0	80	\$22.52	Bachelor's degree	None	None
27-1025	Interior Designers	99	95	-0.4%	3	6	0	9	\$23.36	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	209	208	0.0%	7	12	0	19	\$14.29	High school diploma or equivalent	None	Short-term on-the-job training
27-2012	Producers and Directors	457	483	0.6%	12	29	3	44	\$25.10	Bachelor's degree	Less than 5 years	None
27-2022	Coaches and Scouts	1,875	1,949	0.4%	107	144	7	258	\$29,200/yr	Bachelor's degree	None	None
27-2023	Umpires, Referees, and Other Sports Officials	74	76	0.3%	4	6	0	10	\$34,440/yr	High school diploma or equivalent	None	Moderate-term on-the-job training
27-2041	Music Directors and Composers	117	110	-0.6%	6	4	-1	9	\$26.52	Bachelor's degree	Less than 5 years	None
27-3011	Radio and Television Announcers	328	295	-1.1%	13	16	-3	26	\$14.79	Bachelor's degree	None	None
27-3022	Reporters and Correspondents	196	180	-0.8%	6	12	-2	16	\$16.92	Bachelor's degree	None	None
27-3031	Public Relations Specialists	1,103	1,150	0.4%	32	76	5	113	\$24.80	Bachelor's degree	None	None
27-3041	Editors	492	461	-0.6%	16	30	-3	43	\$22.28	Bachelor's degree	Less than 5 years	None
27-3042	Technical Writers	129	140	0.8%	4	8	1	13	\$34.39	Bachelor's degree	Less than 5 years	Short-term on-the-job training
27-3043	Writers and Authors	907	887	-0.2%	38	38	-2	74	\$30.83	Bachelor's degree	None	Long-term on-the-job training
27-3091	Interpreters and Translators	276	288	0.4%	13	12	1	26	\$18.32	Bachelor's degree	None	None
27-3099	Media and Communication Workers, All Other	163	176	0.8%	8	7	1	16	\$17.91	High school diploma or equivalent	None	Short-term on-the-job training

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
27-4011	Audio and Video Equipment Technicians	113	123	0.9%	3	7	1	11	\$17.56	Postsecondary non-degree award	None	Short-term on-the-job training
27-4012	Broadcast Technicians	73	72	-0.1%	2	4	0	6	\$15.45	Associate's degree	None	Short-term on-the-job training
27-4021	Photographers	870	842	-0.3%	37	30	-3	64	\$20.78	High school diploma or equivalent	None	Long-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	139	150	0.8%	4	9	1	14	\$17.76	Bachelor's degree	None	None
27-4032	Film and Video Editors	35	38	0.8%	1	2	0	3	\$19.58	Bachelor's degree	None	None
29-0000 Healthcare Practitioners and Technical Occupations												
29-1011	Chiropractors	166	167	0.1%	3	1	0	4	n/a	Doctoral or professional degree	None	None
29-1021	Dentists, General	285	300	0.5%	5	2	2	9	n/a	Doctoral or professional degree	None	None
29-1031	Dietitians and Nutritionists	243	264	0.8%	8	7	2	17	\$27.64	Bachelor's degree	None	Internship/residency
29-1041	Optometrists	116	120	0.3%	2	2	0	4	\$68.21	Doctoral or professional degree	None	None
29-1051	Pharmacists	504	520	0.3%	12	10	2	24	\$67.30	Doctoral or professional degree	None	None
29-1061	Anesthesiologists	100	100	0.0%	2	1	0	3	\$100.00+	Doctoral or professional degree	None	Internship/residency
29-1062	Family and General Practitioners	382	384	0.1%	6	4	0	10	\$96.75	Doctoral or professional degree	None	Internship/residency
29-1063	Internists, General	282	282	0.0%	4	3	0	7	\$98.55	Doctoral or professional degree	None	Internship/residency
29-1064	Obstetricians and Gynecologists	171	172	0.1%	2	2	0	4	\$99.24	Doctoral or professional degree	None	Internship/residency
29-1065	Pediatricians, General	245	244	0.0%	4	3	0	7	\$74.83	Doctoral or professional degree	None	Internship/residency
29-1066	Psychiatrists	234	234	0.0%	3	3	0	6	\$86.58	Doctoral or professional degree	None	Internship/residency
29-1067	Surgeons	353	353	0.0%	5	4	0	9	\$100.00+	Doctoral or professional degree	None	Internship/residency
29-1069	Physicians and Surgeons, All Other	1,202	1,239	0.3%	18	14	4	36	\$72.61	Doctoral or professional degree	None	Internship/residency
29-1071	Physician Assistants	320	410	2.5%	6	13	9	28	\$50.35	Master's degree	None	None
29-1122	Occupational Therapists	329	384	1.6%	7	10	6	23	\$37.32	Master's degree	None	None
29-1123	Physical Therapists	903	1,089	1.9%	19	21	19	59	\$36.01	Doctoral or professional degree	None	None
29-1124	Radiation Therapists	48	53	1.0%	1	1	0	2	\$43.75	Associate's degree	None	None
29-1125	Recreational Therapists	36	37	0.3%	1	1	0	2	\$18.51	Bachelor's degree	None	None
29-1126	Respiratory Therapists	215	259	1.9%	6	5	4	15	\$30.90	Associate's degree	None	None
29-1127	Speech-Language Pathologists	418	429	0.3%	8	13	1	22	\$34.34	Master's degree	None	Internship/residency
29-1131	Veterinarians	310	340	0.9%	6	5	3	14	\$46.52	Doctoral or professional degree	None	None

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
29-1141	Registered Nurses	5,980	6,757	1.2%	182	138	78	398	\$31.61	Bachelor's degree	None	None
29-1161	Nurse Midwives	49	54	1.0%	1	2	0	3	\$43.97	Master's degree	None	None
29-1171	Nurse Practitioners	547	680	2.2%	12	18	13	43	\$48.87	Master's degree	None	None
29-1199	Health Diagnosing and Treating Practitioners, All Other	265	286	0.8%	11	3	2	16	\$34.33	Master's degree	None	None
29-2011	Medical and Clinical Laboratory Technologists	180	200	1.1%	6	6	2	14	\$26.68	Bachelor's degree	None	None
29-2012	Medical and Clinical Laboratory Technicians	249	276	1.0%	8	8	3	19	\$26.68	Associate's degree	None	None
29-2021	Dental Hygienists	752	777	0.3%	28	17	2	47	\$34.15	Associate's degree	None	None
29-2031	Cardiovascular Technologists and Technicians	48	54	1.2%	1	1	1	3	\$22.38	Associate's degree	None	None
29-2032	Diagnostic Medical Sonographers	77	96	2.2%	2	2	2	6	\$37.59	Associate's degree	None	None
29-2034	Radiologic Technologists	408	454	1.1%	11	11	5	27	\$29.40	Associate's degree	None	None
29-2035	Magnetic Resonance Imaging Technologists	39	43	1.0%	1	1	0	2	\$38.53	Associate's degree	Less than 5 years	None
29-2041	Emergency Medical Technicians and Paramedics	489	520	0.6%	9	21	3	33	\$15.67	Postsecondary non-degree award	None	None
29-2051	Dietetic Technicians	38	42	1.0%	1	2	0	3	\$13.90	Associate's degree	None	None
29-2052	Pharmacy Technicians	532	581	0.9%	18	25	5	48	\$15.48	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	253	268	0.6%	8	12	2	22	\$18.97	Postsecondary non-degree award	Less than 5 years	Short-term on-the-job training
29-2055	Surgical Technologists	78	87	1.1%	3	4	1	8	\$18.73	Postsecondary non-degree award	None	None
29-2056	Veterinary Technologists and Technicians	408	464	1.3%	14	19	6	39	\$16.53	Associate's degree	None	None
29-2057	Ophthalmic Medical Technicians	215	224	0.4%	7	10	1	18	\$20.76	Postsecondary non-degree award	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	1,375	1,419	0.3%	49	48	4	101	\$23.40	Postsecondary non-degree award	None	None
29-2071	Medical Records and Health Information Technicians	496	546	1.0%	15	16	5	36	\$18.76	Postsecondary non-degree award	None	None
29-2081	Opticians, Dispensing	110	115	0.4%	4	4	0	8	\$22.18	High school diploma or equivalent	None	Long-term on-the-job training
29-2099	Health Technologists and Technicians, All Other	185	209	1.2%	6	6	2	14	\$21.55	Postsecondary non-degree award	None	None
29-9011	Occupational Health and Safety Specialists	125	128	0.2%	3	4	0	7	\$31.94	Bachelor's degree	None	None
29-9091	Athletic Trainers	88	99	1.2%	2	3	1	6	\$50,910/yr	Bachelor's degree	None	None
29-9099	Healthcare Practitioners and Technical Workers, All Other	70	77	1.0%	2	2	1	5	n/a	Postsecondary non-degree award	None	None
31-0000 Healthcare Support Occupations												
31-1011	Home Health Aides	572	763	2.9%	41	34	19	94	\$13.41	High school diploma or equivalent	None	Short-term on-the-job training
31-1014	Nursing Assistants	3,515	3,686	0.5%	219	182	17	418	\$14.38	Postsecondary non-degree award	None	None
31-2011	Occupational Therapy Assistants	81	94	1.5%	4	6	1	11	\$28.26	Associate's degree	None	None
31-2021	Physical Therapist Assistants	158	191	1.9%	8	13	3	24	\$26.61	Associate's degree	None	None
31-2022	Physical Therapist Aides	77	92	1.8%	4	6	2	12	\$16.87	High school diploma or equivalent	None	Short-term on-the-job training

Occupational Projections 2016-2026

Vermont Statewide

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
31-9011	Massage Therapists	1,085	1,160	0.7%	73	40	8	121	\$17.58	Postsecondary non-degree award	None	None
31-9091	Dental Assistants	515	532	0.3%	27	30	2	59	\$21.17	Postsecondary non-degree award	None	None
31-9092	Medical Assistants	659	771	1.6%	31	44	11	86	\$17.45	Postsecondary non-degree award	None	None
31-9093	Medical Equipment Preparers	105	116	1.0%	7	7	1	15	\$16.65	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9094	Medical Transcriptionists	179	166	-0.8%	12	9	-1	20	\$19.17	Postsecondary non-degree award	None	None
31-9095	Pharmacy Aides	210	184	-1.3%	13	13	-3	23	\$11.28	High school diploma or equivalent	None	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	121	137	1.2%	7	12	2	21	\$14.23	High school diploma or equivalent	None	Short-term on-the-job training
31-9097	Phlebotomists	235	266	1.2%	11	14	3	28	\$16.47	Postsecondary non-degree award	None	None
31-9099	Healthcare Support Workers, All Other	127	140	1.0%	8	8	1	17	\$19.88	High school diploma or equivalent	None	None
33-0000 Protective Service Occupations												
33-1012	First-Line Supervisors of Police and Detectives	182	186	0.2%	5	6	0	11	\$42.66	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	57	58	0.2%	2	2	0	4	\$31.60	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
33-1099	First-Line Supervisors of Protective Service Workers, All Other	121	122	0.1%	6	6	0	12	\$25.34	High school diploma or equivalent	Less than 5 years	None
33-2011	Firefighters	236	245	0.4%	5	10	1	16	\$16.70	Postsecondary non-degree award	None	Long-term on-the-job training
33-2021	Fire Inspectors and Investigators	33	38	1.4%	2	2	0	4	\$27.25	Postsecondary non-degree award	5 years or more	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	232	251	0.8%	6	8	2	16	\$39.99	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	1,321	1,344	0.2%	32	52	2	86	\$25.18	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9011	Animal Control Workers	85	92	0.8%	4	5	1	10	\$18.58	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9032	Security Guards	1,124	1,151	0.2%	68	80	3	151	n/a	High school diploma or equivalent	None	Short-term on-the-job training
33-9091	Crossing Guards	433	458	0.6%	62	18	2	82	\$14.84	No formal educational credential	None	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	364	392	0.7%	52	40	3	95	\$11.70	No formal educational credential	None	Short-term on-the-job training
33-9093	Transportation Security Screeners	81	81	0.0%	4	3	0	7	\$19.90	High school diploma or equivalent	None	Short-term on-the-job training

Occupational Projections 2016-2026

Vermont Statewide

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
33-9099	Protective Service Workers, All Other	197	206	0.4%	28	21	1	50	n/a	High school diploma or equivalent	None	Short-term on-the-job training
35-0000	Food Preparation and Serving Related Occupations											
35-1011	Chefs and Head Cooks	463	481	0.4%	15	43	2	60	\$20.56	High school diploma or equivalent	5 years or more	None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	1,922	2,009	0.4%	88	188	9	285	\$19.88	High school diploma or equivalent	Less than 5 years	None
35-2011	Cooks, Fast Food	665	607	-0.9%	37	51	-6	82	\$11.47	No formal educational credential	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	1,128	1,176	0.4%	68	92	5	165	\$14.74	No formal educational credential	None	Short-term on-the-job training
35-2014	Cooks, Restaurant	2,553	2,736	0.7%	155	212	18	385	\$14.72	No formal educational credential	Less than 5 years	Moderate-term on-the-job training
35-2015	Cooks, Short Order	538	508	-0.6%	31	42	-3	70	\$13.39	No formal educational credential	None	Short-term on-the-job training
35-2019	Cooks, All Other	40	42	0.5%	2	3	0	5	\$16.11	No formal educational credential	None	Moderate-term on-the-job training
35-2021	Food Preparation Workers	1,782	1,846	0.4%	145	157	6	308	\$12.42	No formal educational credential	None	Short-term on-the-job training
35-3011	Bartenders	1,973	1,988	0.1%	95	227	2	324	\$17.31	No formal educational credential	None	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	6,291	6,939	1.0%	586	613	65	1,264	\$11.91	No formal educational credential	None	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,142	1,146	0.0%	137	108	0	245	\$11.54	No formal educational credential	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	5,628	5,952	0.6%	429	657	32	1,118	\$15.33	No formal educational credential	None	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	366	381	0.4%	28	26	2	56	\$13.08	No formal educational credential	None	Short-term on-the-job training
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	1,072	1,092	0.2%	96	86	2	184	\$12.16	No formal educational credential	None	Short-term on-the-job training
35-9021	Dishwashers	1,437	1,443	0.0%	106	115	1	222	\$11.95	No formal educational credential	None	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	615	636	0.3%	72	68	2	142	\$11.74	No formal educational credential	None	Short-term on-the-job training
35-9099	Food Preparation and Serving Related Workers, All Other	76	78	0.3%	7	6	0	13	\$12.50	No formal educational credential	None	Short-term on-the-job training
37-0000	Building and Grounds Cleaning and Maintenance Occupations											
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	814	858	0.5%	27	50	4	81	\$24.19	High school diploma or equivalent	Less than 5 years	None
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	5,517	5,781	0.5%	368	355	26	749	\$14.15	No formal educational credential	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	4,007	4,161	0.4%	302	228	15	545	\$12.17	No formal educational credential	None	Short-term on-the-job training

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
37-2021	Pest Control Workers	83	89	0.7%	3	8	1	12	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	4,995	5,321	0.6%	241	368	33	642	\$15.07	No formal educational credential	None	Short-term on-the-job training
39-0000 Personal Care and Service Occupations												
39-1021	First-Line Supervisors of Personal Service Workers	962	1,021	0.6%	48	45	6	99	\$20.83	High school diploma or equivalent	Less than 5 years	None
39-2021	Nonfarm Animal Caretakers	722	828	1.4%	53	62	11	126	\$11.91	High school diploma or equivalent	None	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	50	56	1.1%	7	6	1	14	\$11.93	No formal educational credential	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	408	443	0.8%	45	51	4	100	\$11.75	No formal educational credential	None	Short-term on-the-job training
39-4021	Funeral Attendants	70	65	-0.7%	6	4	0	10	\$18.45	High school diploma or equivalent	None	Short-term on-the-job training
39-4031	Morticians, Undertakers, and Funeral Directors	98	91	-0.7%	5	7	-1	11	\$33.06	Associate's degree	None	Long-term on-the-job training
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,799	1,848	0.3%	122	91	5	218	\$13.15	Postsecondary non-degree award	None	None
39-5094	Skincare Specialists	272	280	0.3%	17	14	1	32	\$26.68	Postsecondary non-degree award	None	None
39-6011	Baggage Porters and Bellhops	156	166	0.6%	8	14	1	23	\$11.64	High school diploma or equivalent	None	Short-term on-the-job training
39-6012	Concierges	33	35	0.6%	2	3	0	5	\$14.73	High school diploma or equivalent	None	Moderate-term on-the-job training
39-7011	Tour Guides and Escorts	213	236	1.0%	20	19	2	41	\$12.53	High school diploma or equivalent	None	Moderate-term on-the-job training
39-9011	Childcare Workers	2,905	2,908	0.0%	237	180	0	417	\$13.27	High school diploma or equivalent	None	Short-term on-the-job training
39-9021	Personal Care Aides	7,539	9,777	2.6%	691	520	224	1,435	\$13.24	High school diploma or equivalent	None	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	1,155	1,232	0.6%	78	119	8	205	\$19.85	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	1,418	1,528	0.7%	96	147	11	254	\$12.91	High school diploma or equivalent	None	Short-term on-the-job training
39-9041	Residential Advisors	408	421	0.3%	28	41	1	70	\$16.18	High school diploma or equivalent	None	Short-term on-the-job training
39-9099	Personal Care and Service Workers, All Other	69	71	0.3%	5	5	0	10	\$13.60	High school diploma or equivalent	None	Short-term on-the-job training
41-0000 Sales and Related Occupations												
41-1011	First-Line Supervisors of Retail Sales Workers	4,754	4,619	-0.3%	173	315	-14	474	\$21.77	High school diploma or equivalent	Less than 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	1,821	1,779	-0.2%	60	100	-4	156	\$35.75	High school diploma or equivalent	Less than 5 years	None

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
41-2011	Cashiers	9,934	9,558	-0.4%	915	893	-38	1,770	\$11.57	No formal educational credential	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	931	946	0.2%	49	69	2	120	\$15.63	No formal educational credential	None	Short-term on-the-job training
41-2022	Parts Salespersons	589	586	-0.1%	26	46	0	72	\$16.93	No formal educational credential	None	Moderate-term on-the-job training
41-2031	Retail Salespersons	9,834	9,612	-0.2%	616	772	-22	1,366	\$12.72	No formal educational credential	None	Short-term on-the-job training
41-3011	Advertising Sales Agents	316	285	-1.0%	11	26	-3	34	\$22.26	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	1,951	1,947	0.0%	79	105	0	184	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	542	561	0.3%	14	36	2	52	\$35.05	Bachelor's degree	None	Moderate-term on-the-job training
41-3041	Travel Agents	228	195	-1.6%	11	13	-3	21	\$19.56	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3099	Sales Representatives, Services, All Other	1,104	1,150	0.4%	36	97	5	138	\$25.00	High school diploma or equivalent	None	Moderate-term on-the-job training
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	625	652	0.4%	21	43	3	67	\$37.19	Bachelor's degree	None	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	2,585	2,647	0.2%	86	175	6	267	\$28.76	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9011	Demonstrators and Product Promoters	86	87	0.1%	9	6	0	15	\$13.21	No formal educational credential	None	Short-term on-the-job training
41-9022	Real Estate Sales Agents	637	630	-0.1%	32	25	-1	56	\$27.11	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9031	Sales Engineers	102	96	-0.6%	2	8	-1	9	n/a	Bachelor's degree	None	Moderate-term on-the-job training
41-9041	Telemarketers	67	62	-0.8%	4	6	0	10	n/a	No formal educational credential	None	Short-term on-the-job training
43-0000	Office and Administrative Support Occupations											
43-1011	First-Line Supervisors of Office and Administrative Support Workers	2,035	2,040	0.0%	79	118	0	197	\$27.06	High school diploma or equivalent	Less than 5 years	None
43-2011	Switchboard Operators, Including Answering Service	207	162	-2.4%	12	12	-4	20	\$14.30	High school diploma or equivalent	None	Short-term on-the-job training
43-3011	Bill and Account Collectors	405	385	-0.5%	15	26	-2	39	\$19.43	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3021	Billing and Posting Clerks	1,087	1,176	0.8%	48	62	9	119	\$18.61	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	6,075	5,857	-0.4%	369	287	-22	634	\$19.82	Some college, no degree	None	Moderate-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	337	322	-0.5%	14	18	-2	30	\$20.98	High school diploma or equivalent	None	Moderate-term on-the-job training

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

n/a - Wage data not available

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released: Projections: July 2018, Wage: April 2019

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
43-3061	Procurement Clerks	135	129	-0.5%	6	9	-1	14	\$20.28	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	1,121	985	-1.3%	54	68	-14	108	\$14.51	High school diploma or equivalent	None	Short-term on-the-job training
43-4011	Brokerage Clerks	52	55	0.6%	1	4	0	5	\$26.07	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4031	Court, Municipal, and License Clerks	756	956	2.4%	38	34	20	92	\$20.51	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4051	Customer Service Representatives	3,503	3,567	0.2%	181	265	6	452	\$17.17	High school diploma or equivalent	None	Short-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	65	69	0.6%	3	3	0	6	\$25.77	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	940	1,004	0.7%	54	96	6	156	\$13.09	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	340	365	0.7%	19	22	2	43	\$19.44	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	286	295	0.3%	23	18	1	42	\$12.94	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	236	254	0.7%	9	14	2	25	\$19.00	High school diploma or equivalent	None	Short-term on-the-job training
43-4151	Order Clerks	814	776	-0.5%	37	52	-4	85	\$17.06	High school diploma or equivalent	None	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	168	161	-0.4%	7	11	-1	17	\$18.39	Associate's degree	None	None
43-4171	Receptionists and Information Clerks	2,556	2,584	0.1%	160	171	3	334	\$15.72	High school diploma or equivalent	None	Short-term on-the-job training
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	200	212	0.6%	9	12	1	22	\$14.03	High school diploma or equivalent	None	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	206	220	0.7%	10	13	1	24	\$20.88	High school diploma or equivalent	None	Short-term on-the-job training
43-5011	Cargo and Freight Agents	59	65	1.0%	2	3	1	6	\$18.47	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	442	467	0.6%	21	20	2	43	\$15.72	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	287	286	0.0%	10	15	0	25	\$21.76	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	364	345	-0.5%	12	19	-2	29	\$19.38	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	63	58	-0.8%	2	2	0	4	\$24.78	High school diploma or equivalent	None	Short-term on-the-job training
43-5051	Postal Service Clerks	429	401	-0.7%	21	11	-3	29	\$21.88	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	737	690	-0.7%	28	20	-5	43	\$22.37	High school diploma or equivalent	None	Short-term on-the-job training

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

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released: Projections: July 2018, Wage: April 2019

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	185	165	-1.1%	7	5	-2	10	\$28.26	High school diploma or equivalent	None	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	451	458	0.2%	16	30	1	47	\$22.72	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	1,742	1,698	-0.3%	67	102	-4	165	\$16.27	High school diploma or equivalent	None	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	2,702	2,784	0.3%	150	195	8	353	\$13.35	High school diploma or equivalent	None	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	230	240	0.4%	9	13	1	23	\$20.18	High school diploma or equivalent	None	Short-term on-the-job training
43-6011	Executive Secretaries and Executive Administrative Assistants	2,182	1,748	-2.2%	106	103	-43	166	\$25.72	High school diploma or equivalent	Less than 5 years	None
43-6012	Legal Secretaries	358	278	-2.5%	17	17	-8	26	\$22.58	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6013	Medical Secretaries	994	1,126	1.3%	57	56	13	126	\$18.38	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	6,059	5,444	-1.1%	310	301	-62	549	\$17.41	High school diploma or equivalent	None	Short-term on-the-job training
43-9011	Computer Operators	61	47	-2.6%	2	3	-1	4	\$19.33	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9021	Data Entry Keyers	486	375	-2.6%	22	28	-11	39	\$16.51	High school diploma or equivalent	None	Short-term on-the-job training
43-9031	Desktop Publishers	62	54	-1.4%	2	4	-1	5	\$20.23	Associate's degree	None	Short-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	594	606	0.2%	26	34	1	61	\$19.30	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	131	121	-0.8%	7	7	-1	13	\$16.95	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	1,755	1,665	-0.5%	100	98	-9	189	\$16.37	High school diploma or equivalent	None	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	87	66	-2.7%	3	5	-2	6	\$14.15	High school diploma or equivalent	None	Short-term on-the-job training
43-9199	Office and Administrative Support Workers, All Other	317	323	0.2%	14	20	1	35	\$20.88	High school diploma or equivalent	None	Short-term on-the-job training
45-0000	Farming, Fishing, and Forestry Occupations											
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	304	325	0.7%	10	31	2	43	\$20.35	High school diploma or equivalent	Less than 5 years	None
45-2011	Agricultural Inspectors	37	38	0.3%	2	3	0	5	\$28.58	Bachelor's degree	None	Moderate-term on-the-job training
45-2041	Graders and Sorters, Agricultural Products	366	365	0.0%	15	34	0	49	\$12.34	No formal educational credential	None	Short-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	787	936	1.7%	32	98	15	145	\$15.56	No formal educational credential	None	Short-term on-the-job training

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	1,151	1,361	1.7%	46	143	21	210	\$13.57	No formal educational credential	None	Short-term on-the-job training
45-4022	Logging Equipment Operators	280	231	-1.9%	9	23	-5	27	\$18.59	High school diploma or equivalent	None	Moderate-term on-the-job training
45-4023	Log Graders and Scalers	39	30	-2.6%	1	3	-1	3	\$17.63	High school diploma or equivalent	None	Moderate-term on-the-job training
47-0000	Construction and Extraction Occupations											
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	1,892	1,989	0.5%	62	122	10	194	\$30.57	High school diploma or equivalent	5 years or more	None
47-2021	Brickmasons and Blockmasons	168	168	0.0%	5	9	0	14	\$25.69	High school diploma or equivalent	None	Apprenticeship
47-2022	Stonemasons	165	166	0.1%	5	9	0	14	\$21.46	High school diploma or equivalent	None	Apprenticeship
47-2031	Carpenters	6,970	7,038	0.1%	241	389	7	637	\$20.54	High school diploma or equivalent	None	Apprenticeship
47-2041	Carpet Installers	136	134	-0.1%	4	7	0	11	\$20.63	No formal educational credential	None	Short-term on-the-job training
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	87	86	-0.1%	3	4	0	7	\$22.35	No formal educational credential	None	Moderate-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	269	278	0.3%	10	19	1	30	\$19.47	No formal educational credential	None	Moderate-term on-the-job training
47-2061	Construction Laborers	2,634	2,658	0.1%	92	174	2	268	\$16.89	No formal educational credential	None	Short-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	1,194	1,238	0.4%	46	85	4	135	\$20.20	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	326	306	-0.6%	10	18	-2	26	\$21.71	No formal educational credential	None	Moderate-term on-the-job training
47-2082	Tapers	79	75	-0.5%	2	4	0	6	n/a	No formal educational credential	None	Moderate-term on-the-job training
47-2111	Electricians	1,353	1,371	0.1%	47	101	2	150	\$24.45	High school diploma or equivalent	None	Apprenticeship
47-2131	Insulation Workers, Floor, Ceiling, and Wall	151	147	-0.3%	4	11	0	15	\$18.42	No formal educational credential	None	Short-term on-the-job training
47-2141	Painters, Construction and Maintenance	1,922	1,868	-0.3%	65	94	-5	154	\$18.47	No formal educational credential	None	Moderate-term on-the-job training
47-2151	Pipelayers	58	64	1.0%	2	4	1	7	\$18.23	No formal educational credential	None	Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	885	935	0.6%	33	61	5	99	\$25.02	High school diploma or equivalent	None	Apprenticeship
47-2181	Roofers	498	508	0.2%	14	34	1	49	\$16.60	No formal educational credential	None	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	381	385	0.1%	13	26	0	39	\$20.64	High school diploma or equivalent	None	Apprenticeship

Occupational Projections 2016-2026

Vermont Statewide

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47-2221	Structural Iron and Steel Workers	62	65	0.5%	2	5	0	7	\$20.55	High school diploma or equivalent	None	Apprenticeship
47-2231	Solar Photovoltaic Installers	406	556	3.2%	19	31	15	65	\$18.27	High school diploma or equivalent	None	Moderate-term on-the-job training
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	141	147	0.4%	6	14	1	21	\$16.61	No formal educational credential	None	Short-term on-the-job training
47-3012	Helpers--Carpenters	195	207	0.6%	8	19	1	28	\$15.89	No formal educational credential	None	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	50	55	1.0%	2	5	0	7	\$13.54	High school diploma or equivalent	None	Short-term on-the-job training
47-3016	Helpers--Roofers	65	68	0.5%	3	6	0	9	\$14.11	No formal educational credential	None	Short-term on-the-job training
47-4011	Construction and Building Inspectors	203	224	1.0%	10	12	2	24	\$27.39	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
47-4041	Hazardous Materials Removal Workers	126	141	1.1%	5	10	2	17	\$17.82	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	1,548	1,554	0.0%	66	89	1	156	\$20.25	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	98	113	1.4%	5	8	2	15	\$17.27	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	73	75	0.3%	2	6	0	8	\$28.23	High school diploma or equivalent	None	Moderate-term on-the-job training
49-0000	Installation, Maintenance, and Repair Occupations											
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	1,168	1,216	0.4%	39	61	5	105	\$30.79	High school diploma or equivalent	Less than 5 years	None
49-2011	Computer, Automated Teller, and Office Machine Repairers	104	98	-0.6%	3	6	-1	8	\$14.76	Some college, no degree	None	Short-term on-the-job training
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	770	643	-1.8%	23	50	-13	60	\$23.71	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	196	202	0.3%	5	12	1	18	\$29.42	Postsecondary non-degree award	None	Long-term on-the-job training
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	286	262	-0.9%	10	18	-2	26	\$17.93	Postsecondary non-degree award	None	Short-term on-the-job training
49-2098	Security and Fire Alarm Systems Installers	74	84	1.3%	3	6	1	10	\$23.86	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3011	Aircraft Mechanics and Service Technicians	211	223	0.6%	7	10	1	18	\$29.30	Postsecondary non-degree award	None	None
49-3021	Automotive Body and Related Repairers	730	755	0.3%	26	44	2	72	\$19.82	High school diploma or equivalent	None	Long-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	145	148	0.2%	6	8	0	14	\$17.57	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	2,636	2,705	0.3%	84	161	7	252	\$19.18	Postsecondary non-degree award	None	Short-term on-the-job training

Occupational Projections 2016-2026

Vermont Statewide

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	775	830	0.7%	25	46	6	77	\$21.87	High school diploma or equivalent	None	Long-term on-the-job training
49-3041	Farm Equipment Mechanics and Service Technicians	132	142	0.7%	4	9	1	14	\$16.16	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	222	236	0.6%	7	14	1	22	\$21.85	High school diploma or equivalent	None	Long-term on-the-job training
49-3051	Motorboat Mechanics and Service Technicians	124	123	-0.1%	5	8	0	13	\$18.39	High school diploma or equivalent	None	Long-term on-the-job training
49-3052	Motorcycle Mechanics	42	40	-0.5%	2	2	0	4	\$14.03	Postsecondary non-degree award	None	Short-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	294	300	0.2%	12	18	1	31	\$17.35	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3093	Tire Repairers and Changers	118	114	-0.3%	4	10	0	14	\$14.50	High school diploma or equivalent	None	Short-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	147	152	0.3%	4	7	0	11	\$28.09	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1,095	1,117	0.2%	30	74	2	106	\$23.72	Postsecondary non-degree award	None	Long-term on-the-job training
49-9031	Home Appliance Repairers	145	133	-0.9%	7	6	-1	12	\$19.20	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9041	Industrial Machinery Mechanics	622	658	0.6%	22	33	4	59	\$25.02	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	76	83	0.9%	3	5	1	9	\$24.17	High school diploma or equivalent	None	Long-term on-the-job training
49-9044	Millwrights	96	98	0.2%	3	6	0	9	\$23.05	High school diploma or equivalent	None	Apprenticeship
49-9051	Electrical Power-Line Installers and Repairers	410	423	0.3%	10	22	1	33	\$40.55	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	160	134	-1.8%	4	11	-3	12	\$32.28	High school diploma or equivalent	None	Long-term on-the-job training
49-9062	Medical Equipment Repairers	74	70	-0.6%	3	3	0	6	\$23.21	Associate's degree	None	Moderate-term on-the-job training
49-9071	Maintenance and Repair Workers, General	2,874	3,086	0.7%	121	166	21	308	\$18.75	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	47	45	-0.4%	2	3	0	5	\$17.87	High school diploma or equivalent	None	Short-term on-the-job training
49-9094	Locksmiths and Safe Repairers	75	70	-0.7%	4	3	0	7	n/a	High school diploma or equivalent	None	Long-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Workers	158	165	0.4%	8	12	1	21	\$14.18	High school diploma or equivalent	None	Short-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	305	309	0.1%	11	18	0	29	\$17.30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-0000 Production Occupations												

Occupational Projections 2016-2026

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
51-1011	First-Line Supervisors of Production and Operating Workers	1,852	1,808	-0.2%	58	117	-4	171	\$29.43	High school diploma or equivalent	Less than 5 years	None
51-2021	Coil Winders, Tapers, and Finishers	36	30	-1.8%	2	2	-1	3	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2022	Electrical and Electronic Equipment Assemblers	129	111	-1.5%	6	8	-2	12	\$18.85	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2023	Electromechanical Equipment Assemblers	69	50	-3.2%	3	4	-2	5	\$18.85	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2031	Engine and Other Machine Assemblers	48	37	-2.6%	1	3	-1	3	\$18.87	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	92	74	-2.2%	3	6	-2	7	\$21.85	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2092	Team Assemblers	1,372	1,087	-2.3%	52	89	-28	113	\$14.36	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	566	500	-1.2%	23	39	-7	55	\$14.36	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3011	Bakers	756	788	0.4%	50	58	3	111	\$14.49	No formal educational credential	None	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	205	214	0.4%	9	16	1	26	\$16.48	No formal educational credential	None	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	236	245	0.4%	11	18	1	30	\$16.94	No formal educational credential	None	Short-term on-the-job training
51-3023	Slaughterers and Meat Packers	42	42	0.0%	2	3	0	5	\$14.09	No formal educational credential	None	Short-term on-the-job training
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	167	161	-0.4%	7	12	-1	18	\$17.98	No formal educational credential	None	Moderate-term on-the-job training
51-3092	Food Batchmakers	460	461	0.0%	25	38	0	63	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	52	62	1.8%	3	5	1	9	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3099	Food Processing Workers, All Other	57	57	0.0%	2	4	0	6	\$16.38	No formal educational credential	None	Moderate-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	1,107	993	-1.1%	29	74	-11	92	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	95	99	0.4%	3	7	0	10	\$26.78	Postsecondary non-degree award	None	Moderate-term on-the-job training
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	194	180	-0.7%	5	14	-1	18	\$14.66	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	195	165	-1.7%	6	14	-3	17	\$17.50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	170	139	-2.0%	5	11	-3	13	\$18.21	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	50	46	-0.8%	1	3	0	4	\$17.77	High school diploma or equivalent	None	Moderate-term on-the-job training

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

n/a - Wage data not available

1 - Occupational Employment and Wages, www.vtلمي.info/occupation.cfm#oes. Median wage is an hourly rate except for occupations normally paid an annual rate, as noted. + Wage is equal to or greater than \$100.00 per hour or \$208,000 per year.

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released: Projections: July 2018, Wage: April 2019

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	75	56	-2.9%	2	4	-2	4	\$18.26	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4041	Machinists	622	580	-0.7%	21	39	-4	56	\$20.04	High school diploma or equivalent	None	Long-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	132	125	-0.5%	5	10	-1	14	\$14.75	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4111	Tool and Die Makers	126	110	-1.3%	5	6	-2	9	\$26.19	Postsecondary non-degree award	None	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	393	384	-0.2%	10	30	-1	39	\$19.63	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	42	36	-1.5%	1	3	-1	3	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	74	64	-1.4%	2	6	-1	7	\$20.72	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4199	Metal Workers and Plastic Workers, All Other	136	127	-0.7%	5	9	-1	13	\$21.67	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5111	Prepress Technicians and Workers	58	50	-1.5%	2	4	-1	5	\$20.20	Postsecondary non-degree award	None	None
51-5112	Printing Press Operators	332	322	-0.3%	13	21	-1	33	\$18.93	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5113	Print Binding and Finishing Workers	154	155	0.1%	12	8	0	20	\$16.76	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	587	572	-0.3%	39	39	-2	76	\$11.46	No formal educational credential	None	Short-term on-the-job training
51-6031	Sewing Machine Operators	276	261	-0.6%	15	13	-2	26	\$12.52	No formal educational credential	None	Short-term on-the-job training
51-6093	Upholsterers	36	32	-1.2%	2	2	0	4	\$14.87	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	440	388	-1.2%	19	23	-5	37	\$17.99	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7021	Furniture Finishers	274	232	-1.7%	14	9	-4	19	\$14.38	High school diploma or equivalent	None	Short-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	276	224	-2.1%	10	18	-5	23	\$17.73	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	491	414	-1.7%	17	32	-8	41	\$14.63	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8013	Power Plant Operators	107	108	0.1%	3	7	0	10	\$29.12	High school diploma or equivalent	None	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	57	54	-0.5%	2	4	0	6	\$21.02	High school diploma or equivalent	None	Long-term on-the-job training
51-8031	Water and Wastewater Treatment Plant and System Operators	354	359	0.1%	10	19	0	29	\$23.08	High school diploma or equivalent	None	Long-term on-the-job training
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	117	153	2.7%	4	11	4	19	\$18.44	High school diploma or equivalent	None	Moderate-term on-the-job training

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

n/a - Wage data not available

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released: Projections: July 2018, Wage: April 2019

2010 SOC Code	Job Title	Employment		Annual Growth Rate (compound average)	Annual Job Openings				Median Wage ¹ 2018 (hourly except as noted)	Typical education needed for entry	Work experience in a related occupation	Typical on-the-job training needed to attain competency in the occupation
		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	190	176	-0.8%	7	14	-1	20	\$22.19	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	128	100	-2.4%	4	8	-3	9	\$13.92	No formal educational credential	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	271	290	0.7%	10	21	2	33	\$17.87	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	85	80	-0.6%	3	6	0	9	\$15.76	No formal educational credential	None	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	312	301	-0.4%	11	23	-1	33	\$15.68	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	214	221	0.3%	8	18	1	27	\$15.62	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	883	753	-1.6%	34	63	-13	84	\$18.50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	428	388	-1.0%	24	18	-4	38	\$17.57	High school diploma or equivalent	None	Long-term on-the-job training
51-9081	Dental Laboratory Technicians	175	213	2.0%	8	13	4	25	n/a	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	55	47	-1.6%	2	3	-1	4	\$17.46	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	1,410	1,429	0.1%	67	94	2	163	\$15.42	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	259	248	-0.4%	7	19	-1	25	\$17.81	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	35	35	0.0%	1	3	0	4	\$21.49	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9193	Cooling and Freezing Equipment Operators and Tenders	161	169	0.5%	6	12	1	19	\$14.18	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	127	120	-0.6%	5	8	-1	12	\$23.50	High school diploma or equivalent	None	Long-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	329	314	-0.5%	12	21	-2	31	\$18.39	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	532	646	2.0%	32	56	11	99	\$13.96	High school diploma or equivalent	None	Short-term on-the-job training
51-9199	Production Workers, All Other	383	403	0.5%	15	29	2	46	\$14.37	High school diploma or equivalent	None	Moderate-term on-the-job training
53-0000	Transportation and Material Moving Occupations											
53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	437	453	0.4%	14	31	2	47	\$26.23	High school diploma or equivalent	Less than 5 years	None
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	610	626	0.3%	20	42	2	64	\$26.23	High school diploma or equivalent	Less than 5 years	None
53-2012	Commercial Pilots	89	90	0.1%	2	6	0	8	\$80,110/yr	High school diploma or equivalent	None	Moderate-term on-the-job training

Occupational Projections 2016-2026

Vermont Statewide

occupations with 30+ employment in 2016

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		2016	2026		Exits [a]	Transfers [b]	Change [c]	Total [a+b+c]				
53-3021	Bus Drivers, Transit and Intercity	447	499	1.1%	37	19	5	61	\$19.83	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3022	Bus Drivers, School or Special Client	1,392	1,436	0.3%	111	58	4	173	\$17.94	High school diploma or equivalent	None	Short-term on-the-job training
53-3031	Driver/Sales Workers	833	837	0.0%	35	52	0	87	\$15.32	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	4,351	4,294	-0.1%	183	272	-6	449	\$20.73	Postsecondary non-degree award	None	Short-term on-the-job training
53-3033	Light Truck or Delivery Services Drivers	2,658	2,680	0.1%	113	168	2	283	\$15.43	High school diploma or equivalent	None	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	1,886	2,105	1.1%	118	81	22	221	\$12.29	No formal educational credential	None	Short-term on-the-job training
53-6021	Parking Lot Attendants	133	144	0.8%	8	12	1	21	\$12.70	No formal educational credential	None	Short-term on-the-job training
53-7011	Conveyor Operators and Tenders	64	56	-1.3%	3	5	-1	7	\$14.83	No formal educational credential	None	Short-term on-the-job training
53-7021	Crane and Tower Operators	93	92	-0.1%	3	6	0	9	\$24.35	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	209	208	0.0%	8	15	0	23	\$19.29	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	860	887	0.3%	30	65	3	98	\$18.26	No formal educational credential	None	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	591	623	0.5%	31	53	3	87	\$13.72	No formal educational credential	None	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	2,889	2,991	0.3%	146	251	10	407	\$13.45	No formal educational credential	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	764	795	0.4%	53	64	3	120	\$13.15	No formal educational credential	None	Short-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	719	811	1.2%	35	56	9	100	\$16.27	No formal educational credential	None	Short-term on-the-job training

Vermont Long Term Occupational Projections

2016 - 2026

Methodology & Technical Notes

Long Term Occupational Projections use the 2016-2026 Long Term Industry Projections and Vermont May 2016 Occupational Employment Statistics (OES) data to project employment levels for over 500 occupations in Vermont in 2026. The process takes into account expected rates of change in relative demand for occupations over time within each industry as well as rates at which workers leave an occupation.

Long term projections are designed to assist the educational community, workforce development specialists, and individuals planning for the future. They can be used to identify occupations that will show stability, growth and good incomes over the long run. The methods used to produce long term projections ignore the peaks and valleys of business cycles and focus on the fundamental elements that affect the demand for a particular occupation.

Employment projections are estimating the mix of jobs in the future based on trends in the job market in Vermont and on the overall economy. Speculation regarding policy changes, localized economic events such as strikes, or large unexpected events such as hurricanes are not included. Occupations included in projections are necessarily only jobs that already exist in sufficient numbers to be coded and counted. In other words, jobs that do not yet exist or are just emerging cannot be projected. It is partly through collecting new job titles and duties from employers for the data used in projections that new occupations are identified for inclusion.

The results provide a general guide for the direction and relative strength of occupational demand but are not intended to indicate absolute levels of employment in an occupation.

New Separations Methodology

The Projections methodology has been updated to more accurately capture the way workers change jobs over the course of their careers. Workers once entered the labor force at a young age, working until retirement in the same occupation. New, younger workers would replace them once they retired. Workers today are more likely to work in a number of occupations during their lifetimes. The Separations methodology accounts for this workforce trend, capturing reasons workers leave an occupation other than retirement, such as changing careers, being promoted into management, or completing a retraining program.

Projections are to be used for relative comparisons for occupations, and to help inform where training for the future workforce should be focused based on trends. Projections from the Replacements methodology should not be compared with projections derived from the Separations methodology. Any past projections become outdated when actual employment catches up with them or new projections are released, and are no longer an accurate representation of the workforce.

For more information about the Separations methodology, visit:

www.bls.gov/emp/ep_separations.htm

This workforce product was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, or ownership. This product is copyrighted by the institution that created it. Internal use by an organization and/or personal use by an individual for non-commercial purposes is permissible. All other uses require the prior authorization of the copyright owner.

Resignation from New Hire for FY21

----- Forwarded message -----

From: **Margaret Dippen** <peggydippen@gmail.com>

Date: Wed, Jun 24, 2020 at 8:01 AM

Subject: To share

To: Chris Hennessey <chennbce@buusd.org>

Dear Chris,

It is with regret & sadness that I need to inform you that I will be unable to work with you, the team, & teach the children at Barre City School next year.

Because of the court date & agreements set forth, Oak needs to attend preschool in his town of residence & the timing just cannot work for me to get to school by the contractual time.

I am deeply sorry for this change of plans.

Divorce is such a complicated experience. I appreciate your understanding & compassion.

I truly wish you all the best.

Be well.

In gratitude,
Peggy

BARRE UNIFIED UNION SCHOOL DISTRICT

NEW HIRE NOTIFICATION FORM

Complete and Submit to the Central Office
(please submit via email to hr@buusd.org)

Date Received by Central Office:

06/18/2020

To be Completed by Hiring Administrator: (please leave notes for Central Office on the back page)

Name:	Shayna Guild	Location:	BCEMS
Submission Date:	6/18/2020	Administrator Action/Checklist Complete:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Position:	Teacher	Grade (If Applicable):	4
Endorsement (If Applicable):	Elementary	<input type="checkbox"/> Hourly-Non Exempt	<input checked="" type="checkbox"/> Salary-Exempt
Hours Per Day:	7.5	Scheduled Hours:	8:05 a.m. to 3:35 p.m.
Account Code:			
Replacement?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
If Yes, For Whom?	Paula Beaudet	Salary Rate: \$	68,907.00
Administrator Approval:	Hayden Coon	Signature Date:	6/18/2020

REVERSE SIDE: Complete the New Hire Checklist prior to emailing candidate packet for Superintendent review.

For Central Office Use Only:

Contract Complete Date		Offer Letter Complete Date		DOH	
Total Years of Experience:	0	Step:	1	Salary Placement: \$	8
Hourly Rate: \$	N/A	Salary Rate: \$	38,930 (FY20)	Seniority Date:	
Contract Type:	<input checked="" type="checkbox"/> Teacher	<input type="checkbox"/> Para	<input type="checkbox"/> Replacement	<input type="checkbox"/> Interim	<input type="checkbox"/> Offer/Non-Contracted Letters
	<input type="checkbox"/> AFSCME	<input type="checkbox"/> N/A			
Days Per Year:	190	Salary: \$	38,930 (FY20)	Contract Days:	190
Teacher: AOE Endorsement:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	Pending		
If No, Required:	<input type="checkbox"/> Provisional	<input type="checkbox"/> Emergency	<input type="checkbox"/> Apprenticeship		
Para-Educator: Associates Degree	<input type="checkbox"/> YES	<input type="checkbox"/> NO	(If NO) → ParaPro	<input type="checkbox"/> YES has passed ParaPro	<input type="checkbox"/> NO will need to take ParaPro



Superintendent Approval Signature

6/18/20

Date

Shayna Guild

shaynaguild@gmail.com | 802.917.4200 | Williamstown, VT | linkedin.com/shayna-guild

I am committed to building inclusive classrooms for students at an early age and believe that each student will succeed in the classroom when there are the right tools, opportunities, and support. I am eager to contribute to a Vermont school that always puts students' needs first.

EDUCATION

VT Teaching Licensure

May 2020

B.A. in Elementary Education and English

May 2020

Saint Michael's College, Colchester, VT

Education and Literature Program

Autumn 2018

Advance Studies of England, Bath, England

TEACHING EXPERIENCE

Student Teacher

January 2020-April 2020

Rick Marcotte Central School, South Burlington, VT

- Co-teach a third grade classroom of twenty-four students
- Design and implement units in all subject areas
- Solo teach for two weeks with responsibility over all classroom jobs and communications

Elementary School Substitute Teacher

2016-2018

Barre Town Elementary School, Barre, VT

- Maintain classroom management through restorative practice for kindergarten through grade five
- Teach lessons based on teacher's lesson plan

Kindergarten Classroom Aid

Autumn 2018

St. Andrew's Church of England Primary School, Bath, England

- Supported the teachers and students with phonics, math, reading, and art/history
- Worked one-on-one with students who needed additional help or supervision
- Designed and taught two lessons, one based around reading comprehension and the other based on Vermont history through art

Senior Camp Counselor and Head of Boating

2013-Present

Lotus Lake Camp, Williamstown, VT

- Responsible for the safety and supervision of up to 25 children at a time, ages 6-14. Manage, train, evaluate, and resolve conflict for a staff of 15
- Create and teach outdoor and team-building activities for the eleven and twelve year olds for each two-week session
- Assist in designing camp wide activities and themes for each two-week session
- Present to parents and recognize campers' achievements at each sessions award ceremony

Mathematics and Literacy Tutor

Summers 2018, 2019

Waterbury, VT and Barre, VT

- Worked one-on-one and with small groups of students in 1st-6th grade to teach academic content aligned with coursework
- Created lesson plans and using resources supplied by teachers.
- Developed assignments, assessed progress and provided feedback

Barre City Elementary & Middle School

Snaulding High School

Lisa Perreault, SFO
Business Manager

Jessica Barewicz
Director of Curriculum, Instruction, and
Assessment

Donald E. McMahon, M.Ed.
Stacy Anderson, M.Ed.
Co-Directors of Special Services

Annette Rhoades



120 Ayers Street, Barre, VT 05641

Phone: 802-476-5011

Fax: 802-476-4944 or 802-477-1132

www.buusd.org

John Pandolfo

Superintendent of Schools

Doing whatever it takes to ensure success for every child.

6.3
Barre Town Middle & Elementary School

Central Vermont Career Center

Carol Marold
Director of Human Resources

Emmanuel Ajanma
Director of Technology

Lauren May
Early Education Director

Jamie Evans
Director of Facilities

BTMES ROOF DECK DEMOLITION-SUMMER 2020

K. Bellavance Landworks & Hauling	\$65,300
EF Wall Construction	\$69,755
Lajuenesse Construction	\$60,020 (Recommended)

***Superintendent's Recommendation: Lajuenesse Construction**

BARRE UNIFIED UNION SCHOOL DISTRICT

SPAULDING EDUCATIONAL ALTERNATIVES FACILITY

91 ALLEN STREET
BARRE, VT 05641

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-	-	-

SPAULDING EDUCATIONAL ALTERNATIVES FACILITY

91 ALLEN STREET
BARRE, VT

CODES IN EFFECT JULY 20, 2020:

2015 STATE OF VERMONT FIRE AND BUILDING SAFETY CODE
VERMONT ELECTRICAL SAFETY RULES 2017 EDITION
VERMONT PLUMBING RULES 2018 EDITION
2012 VERMONT ACCESS RULES AND 2010 ADA STANDARDS FOR ACCESSIBLE BUILDINGS
NFPA 1 UNIFORM FIRE CODE 2015 EDITION
NFPA 101 LIFE SAFETY CODE 2015 EDITION; CHAPTERS 1 THRU 11 AND NEW OCCUPANCY.
THE INTERNATIONAL BUILDING CODE, IBC 2015 EDITION; EXCEPT CHAPTERS 8, 10, 11, 13, 27, 28, 29, & 33
NFPA 70 NATIONAL ELECTRIC CODE, 2017 EDITION
ICC INTERNATIONAL PLUMBING CODE, 2015 EDITION
2020 VERMONT COMMERCIAL BUILDING ENERGY STANDARDS
NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2013 EDITION
NFPA 13 STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS, 2013 EDITION
NFPA 72 NATIONAL FIRE ALARM CODE 2013 EDITION
NFPA 90A STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS
NFPA 96 STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING

PROJECT SUMMARY:

CONSTRUCTION OF 10,000 GROSS SF 1 STORY BUILDING FOR EDUCATIONAL PURPOSES.

IBC

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION:

305 - EDUCATIONAL GROUP E

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY:

406.8 REPAIR GARAGES: CONSTRUCT PER IFC 406.8.1 THROUGH 406.8.6

406.8.1 MIXED USES: MIXED USES SHALL BE ALLOWED IN THE SAME BUILDING AS A REPAIR GARAGE SUBJECT TO THE PROVISIONS OF SECTION 508.1

406.8.2 VENTILATION: SHALL BE MECHANICALLY VENTILATED PER IMC AND CONTROLLED AT THE ENTRANCE TO THE GARAGE

406.8.6 AUTOMATIC SPRINKLER SYSTEM: A REPAIR GARAGE SHALL BE EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM PER SECTION 903.3.9.1

CHAPTER 5 - BUILDING HEIGHTS AND AREAS:

TABLE 504.3 ALLOWABLE BUILDING HEIGHT:
OCCUPANCY: E
SPRINKLER SYSTEM: YES
CONSTRUCTION TYPE: IIB
ALLOWABLE HEIGHT: 75'
PROPOSED BUILDING HEIGHT: 25'. **BUILDING COMPLIES**

TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE: 3.
PROPOSED BUILDING IS 1 STORY ABOVE GRADE: **BUILDING COMPLIES.**

TABLE 506.2 ALLOWABLE AREA:
TYPE 11B BASE AREA = S1 = 58,000SF
TOTAL ALLOWABLE AREA: 58,000 SF
PROPOSED BUILDING AREA: 10,000 SF
TOTAL BUILDING AREA: 10,000SF < 58,000 ALLOWABLE SF. BUILDING COMPLIES.

TABLE 508.4 REQUIRED SEPARATION OF OCCUPANCIES:
OCCUPANCY E FROM OCCUPANCY U (AUTO SHOP) = NS FOR A FULLY SPRINKLERED BUILDING AND 1 HR REQUIRED IF NS.

TABLE 509 INCIDENTAL USES
GROUP E OCCUPANCIES, LABORATORIES AND VOCATIONAL SHOPS NOT CLASSIFIED AS GROUP H = 1 HR OR PROVIDE AUTOMATIC SPRINKLER SYSTEM

CHAPTER 6 TYPES OF CONSTRUCTION:

TABLE 601 FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:
PRIMARY STRUCTURAL FRAME: 0
EXTERIOR WALLS PER TABLE 602: 0
NONBEARING WALLS AND PARTITIONS: 0
ROOF CONSTRUCTION: 0

REFER TO NFPA 1 SECTION 13.6: FOR FIRE EXTINGUISHERS.

TABLE 13.6.1.2: REQUIRED IN EDUCATIONAL OCCUPANCY.
13.6.2.4 CLASSIFICATION OF HAZARDS
13.6.2.4.1 CLASSIFYING OCCUPANCY HAZARD: ROOMS OR AREAS SHALL BE CLASSIFIED AS BEING LIGHT HAZARD, ORDINARY HAZARD, OR EXTRA HAZARD.
13.6.2.4.1.1 LIGHT HAZARD OCCUPANCIES CAN INCLUDE BUILDINGS OR ROOMS OCCUPIED AS OFFICES, CLASSROOMS.....
A13.6.2.4.1.3 EXTRA HAZARD OCCUPANCIES COULD CONSIST OF WOODWORKING; VEHICLE REPAIRS.....;COOKING AREAS...
13.6.3.1.3.8.1: INSTALL NO HIGHER THAN 5' TO TOP OF EXTINGUISHER.
TABLE 13.6.3.2.1.1: MINIMUM RATED EXTINGUISHER = 2-A AT LIGHT AND ORDINARY HAZARD AND 4-A AT EXTRA ORDINARY HAZARD
MAXIMUM FLOOR AREA PER EXTINGUISHER: 3,000 SF AT LIGHT HAZARD, 1,500 SF AT ORDINARY HAZARD, AND 1,000 SF AT EXTRA ORDINARY HAZARD.
MAXIMUM TRAVEL DISTANCE TO A FIRE EXTINGUISHER: 75'

NFPA 2015

CHAPTER 6 - CLASSIFICATION OF OCCUPANCY:

6.1.3 - EDUCATIONAL; SEE ALSO CHAPTER 14 FOR NEW CONSTRUCTION
6.1.14.3.1 MIXED OCCUPANCIES
6.1.14.3.2 EACH PORTION OF THE BUILDING SHALL BE CLASSIFIED AS TO ITS USE PER SECTION 6.1
6.1.14.3.2 THE BUILDING SHALL COMPLY WITH THE MOST RESTRICTIVE REQUIREMENTS OF THE OCCUPANCIES INVOLVED, UNLESS SEPARATE SAFE-GUARDS ARE APPROVED.
6.2.2 CLASSIFICATION OF HAZARD OF CONTENTS
6.2.2.3 ORDINARY HAZARD CONTENTS

CHAPTER 7 - MEANS OF EGRESS

TABLE 7.3.1.2 - OCCUPANT LOAD: EDUCATIONAL OCCUPANCY: 20 SF NET / P AT CLASSROOMS; SHOPS = 50 SF NET / P. OFFICE 100 SF NET /P.

TOTAL OCCUPANT LOAD:

7.4 NUMBER OF MEANS OF EGRESS; NOT LESS THAN 2 REQUIRED WITH OCCUPANT LOAD < 500P.

3 EXITS FROM CORRIDORS SHOWN. EXIT CAPACITY = 510P. **EGRESS COMPLIES.**

TABLE A.7.6 - TRAVEL DISTANCE; SPRINKLERED BUILDING:
COMMON PATH: 100'
DEAD END:50'
TRAVEL TO EXIT: 200'

BUILDING COMPLIES WITH TRAVEL DISTANCES.

CHAPTER 14 NEW EDUCATIONAL OCCUPANCIES

14.2.3.2 MINIMUM CORRIDOR WIDTH - 6' CLEAR WIDTH REQUIRED.

14.2.4 NUMBER OF MEANS OF EGRESS:
14.2.4.2 NOT LESS THAN 2 SEPARATE EXITS REQUIRED; 3 PROVIDED.
14.2.5.6 DOORS THAT SWING INTO AN EXIT ACCESS CORRIDOR SHALL BE ARRANGED TO PREVENT INTERFERENCE WITH CORRIDOR TRAVEL (REF 7.2.1.4.3).
7.2.1.4.3.1 DURING ITS SWING, ANY DOOR LEAF INA MEANS OF EGRESS SHALL LEAVE NOT LESS THAN ONE-HALF OF THE REQUIRED WIDTH OF AN AISLE, CORRIDOR, OR PASSAGEWAY.

14.2.11.1.1 EVERY ROOM OR SPACE GREATER THAN 250 SF AND USED FOR CLASSROOM OR OTHER EDUCATIONAL PURPOSES OR NORMALLY SUBJECT TO STUDENT OCCUPANCY SHALL HAVE NOT LESS THAN 1 OUTSIDE WINDOW FOR EMERGENCY RESCUE UNLESS:

14.2.11.1.2 (1) BUILDING IS PROTECTED THROUGHOUT BY AN APPROVED, SUPERVISED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 9.7

14.3.6 CORRIDORS: CORRIDORS TO BE SEPARATED FROM OTHER PARTS OF THE STORY BY WALLS HAVING A 1 HR. FIRE-RESISTANCE RATING UNLESS:
(2) BUILDING IS PROTECTED THROUGHOUT BY AN APPROVED, SUPERVISED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 9.7 THEN;
(a) CORRIDOR WALLS TO BE CONSTRUCTED AS SMOKE PARTITIONS (NOT RATED).

2020 VERMONT COMMERCIAL ENERGY STANDARDS (CBES)

BUILDING: METAL BUILDING

ITEM	CODE REQUIREMENT	AS DESIGNED
ROOF:	R-40 CI	R-41
WALLS - ABOVE GRADE: METAL BUILDING	ASHRAE 90.1 2013 R-13 + R-15ci U < 0.052	R-25; U-0.04
WALLS - BELOW GRADE:	R-15 ci	R-15 ci
FLOORS - SLAB ON GRADE: UNHEATED	R-10	R-10
ENTRY DOORS: SWINGING:	MAX. U: 0.37	U: 0.083
UPWARD ACTION SECTIONAL:	R-10	R-17.5; U.057
WINDOWS: SHGC (PF < 0.2) FIXED: S,E,W N OPERABLE:	(Max. 30% wall) U 0.40 U 0.53 U 0.43	Does not exceed 30% U: 0.29 U: 0.29 U: 0.22
AIR LEAKAGE:	Tested Air Leakage is not greater than 0.50 cfm/sf of shell area at 50 Pa per ASTM E779	SEE BELOW
WINDOWS: COMMERCIAL GLAZED ENTRY DOORS: AIR BARRIER:	0.20 max cfm/sf 1.00 mac cfm/sf CONTINUOUS & SEALED SEE DRAWINGS	

ENVELOPE AND AIR TESTING WILL BE BY ZERO BY DEGREES, LLC

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KEY PLAN:


REVISION	DATE	COMMENTS

PROJECT:
**BARRE UNIFIED UNION
SCHOOL DISTRICT**

**SPAULDING EDUCATIONAL
ALTERNATIVES FACILITIES**

91 ALLEN STREET
BARRE, VT 05641

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DRAWING TITLE:
CODE PLAN

DATE: 22 JUNE 2020

SHEET NUMBER:

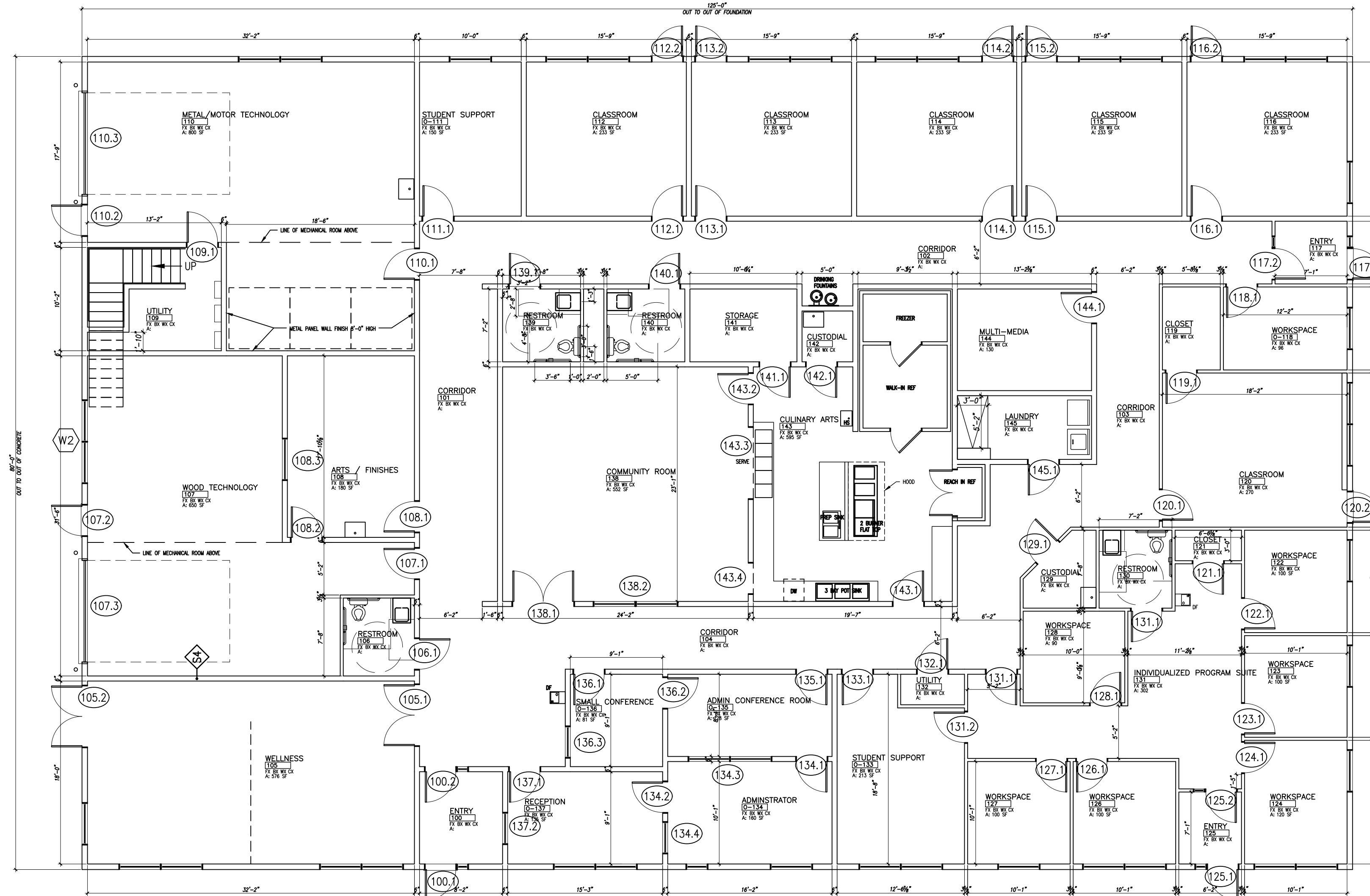
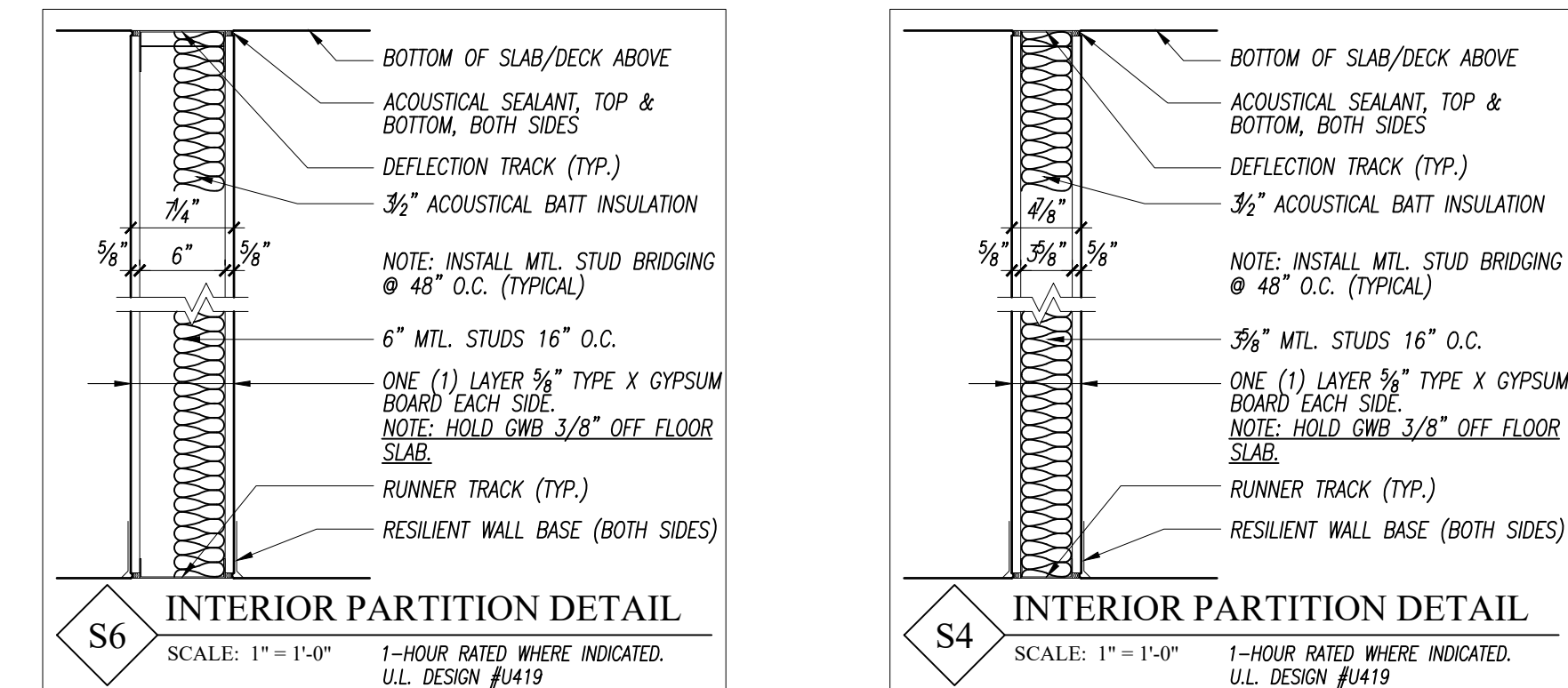
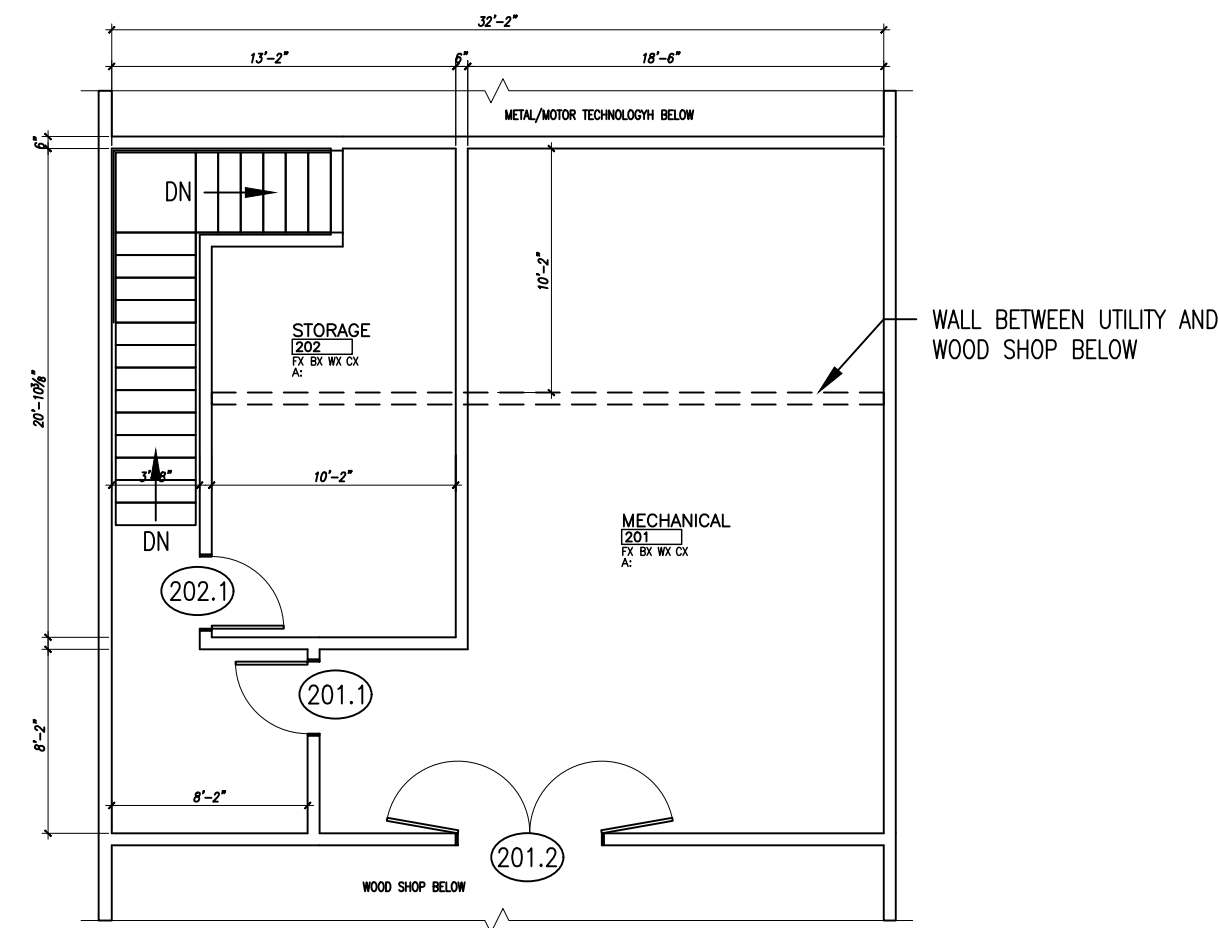
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ACTUAL: (251P)

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INTERIOR FINISHES			
FLOOR	BASE	WALLS	CEILING
F1 SEALED CONCRETE SLAB F2 RUBBER FLOORING F3 CERAMIC TILE	B1 6" RESILIENT COVE BASE B2 CERAMIC TILE	W1 PAINTED G.W.B.	C1 SUSPENDED A.C.T. & GRID C2 FIRE TAPED G.W.B. C3 EXPOSED STRUCTURE PAINTED

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KEY PLAN:



NORTH

[illegible]

PROJECT:

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OVERALL FLOOR PLANS

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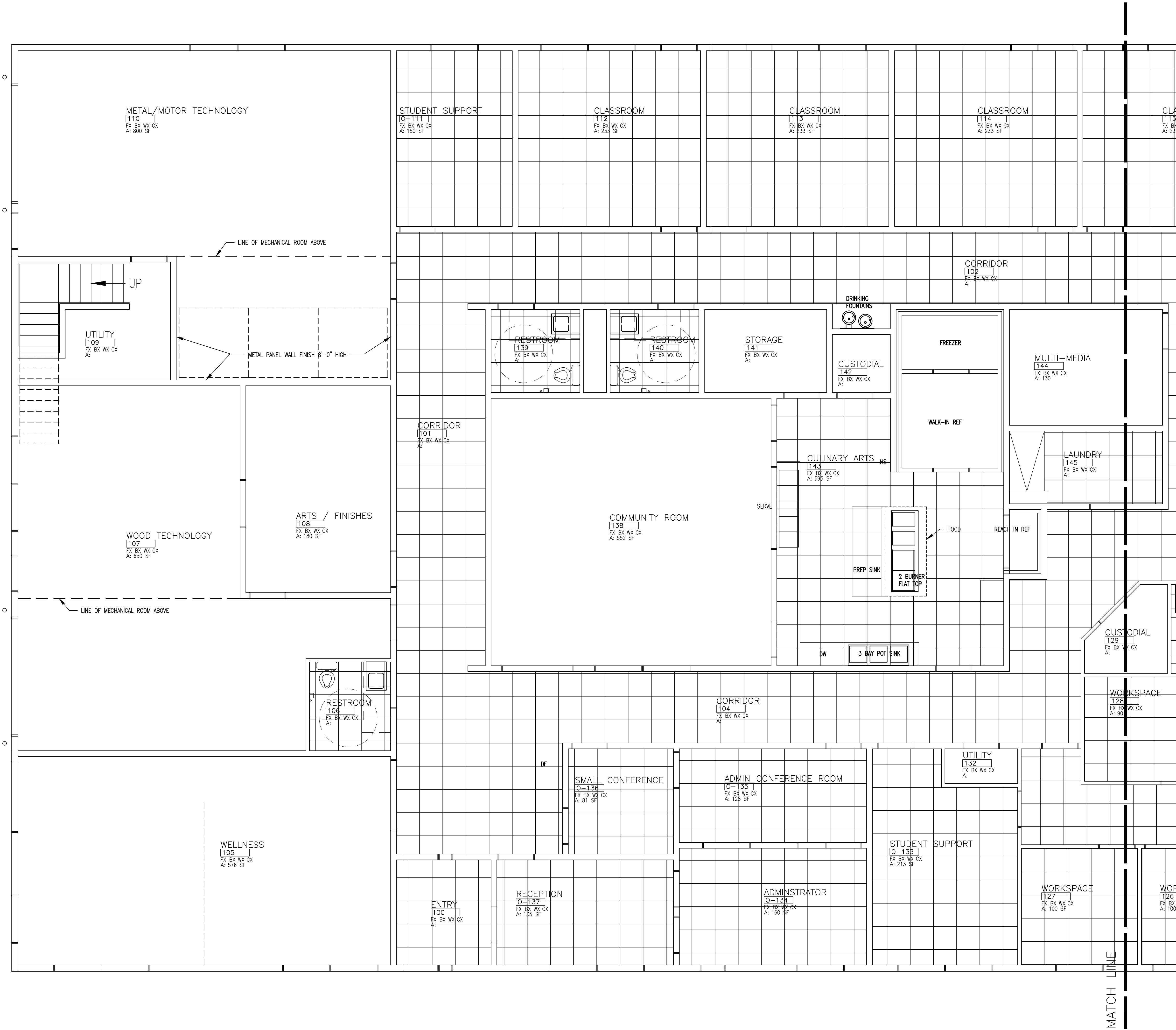
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A1.2

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01 LARGE SCALE PLAN - REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

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KEY PLAN:

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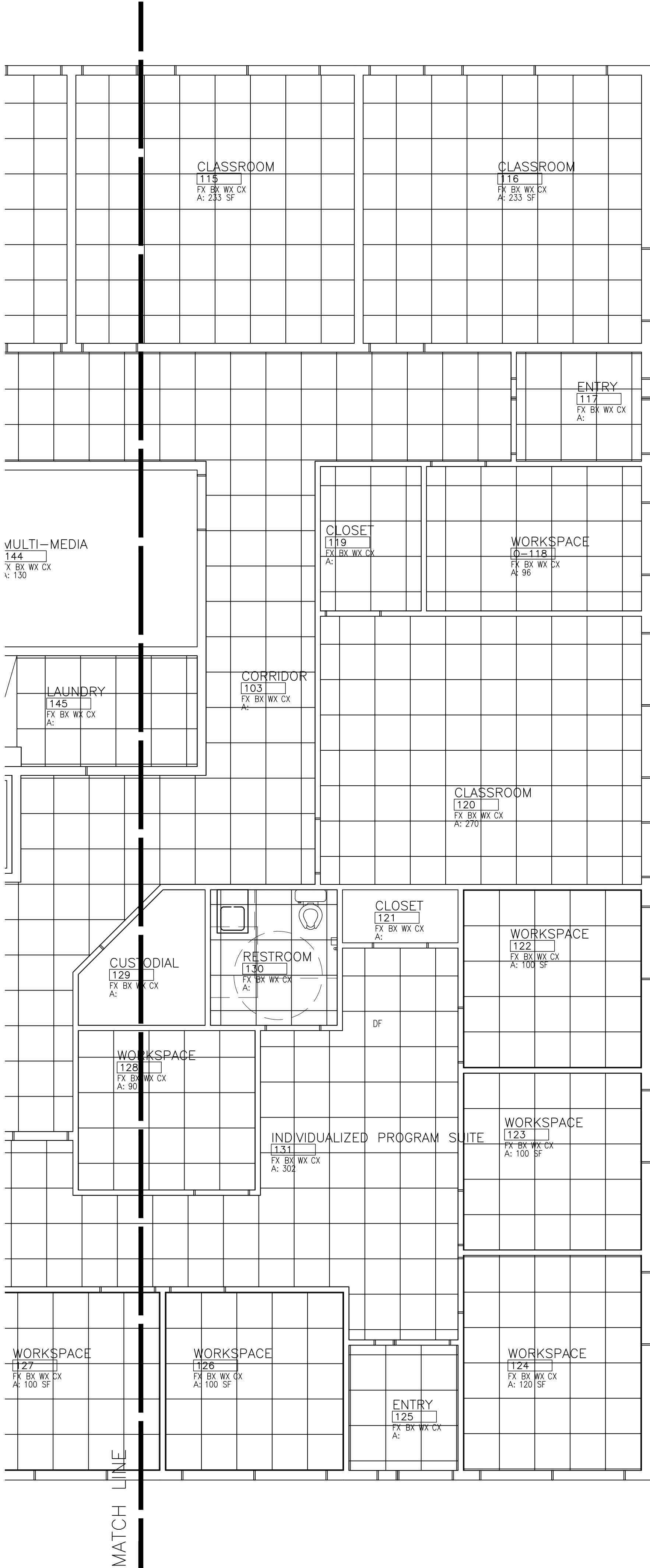
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REFLECTED CEILING PLAN

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01 LARGE SCALE REFLECTED CEILING PLAN
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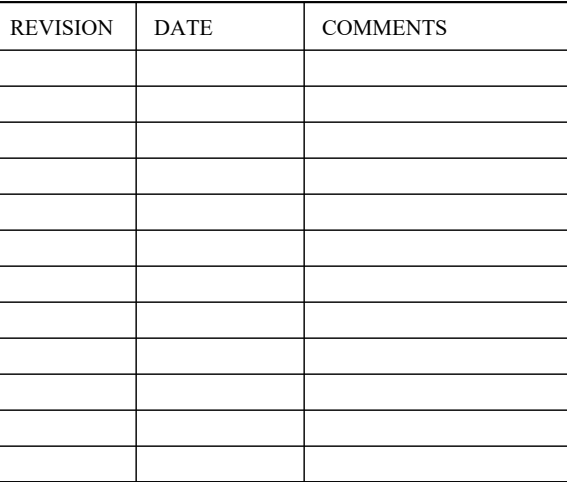
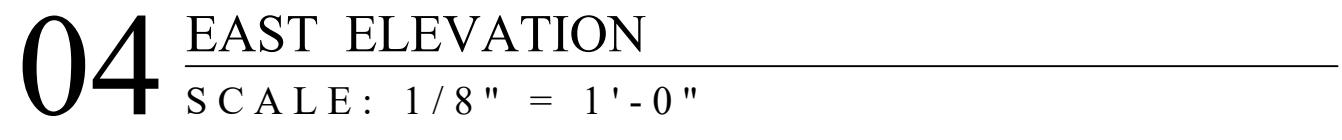
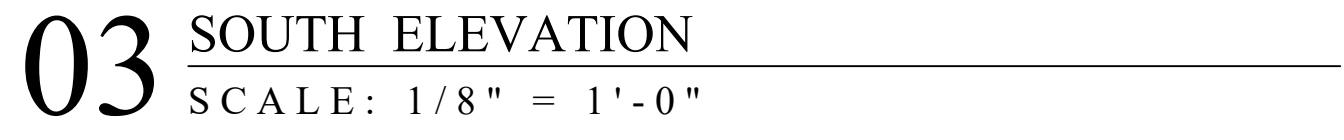
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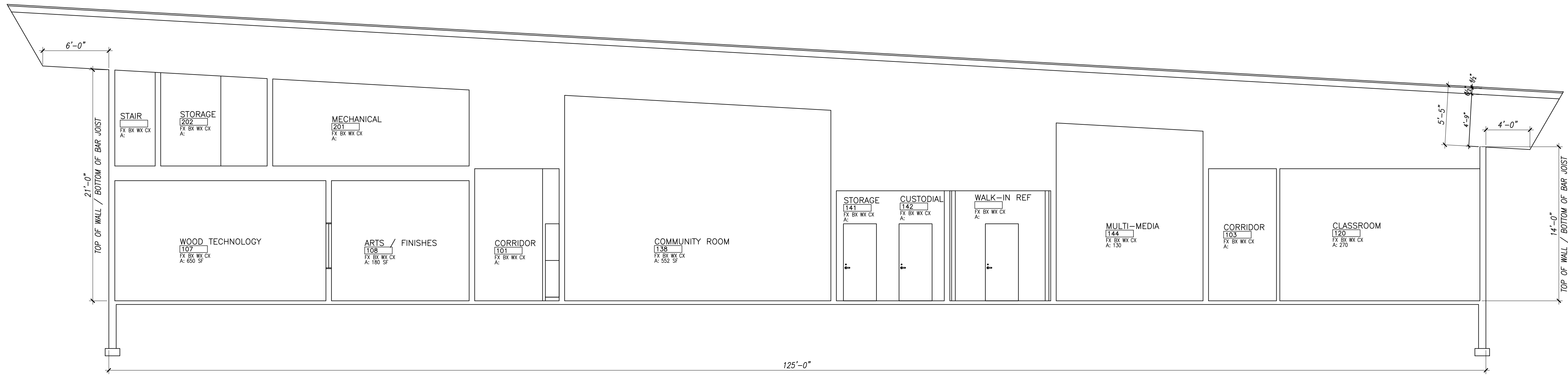
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01 SECTION
SCALE: 3 / 16 " = 1 '- 0 "

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KEY PLAN:

NORTH

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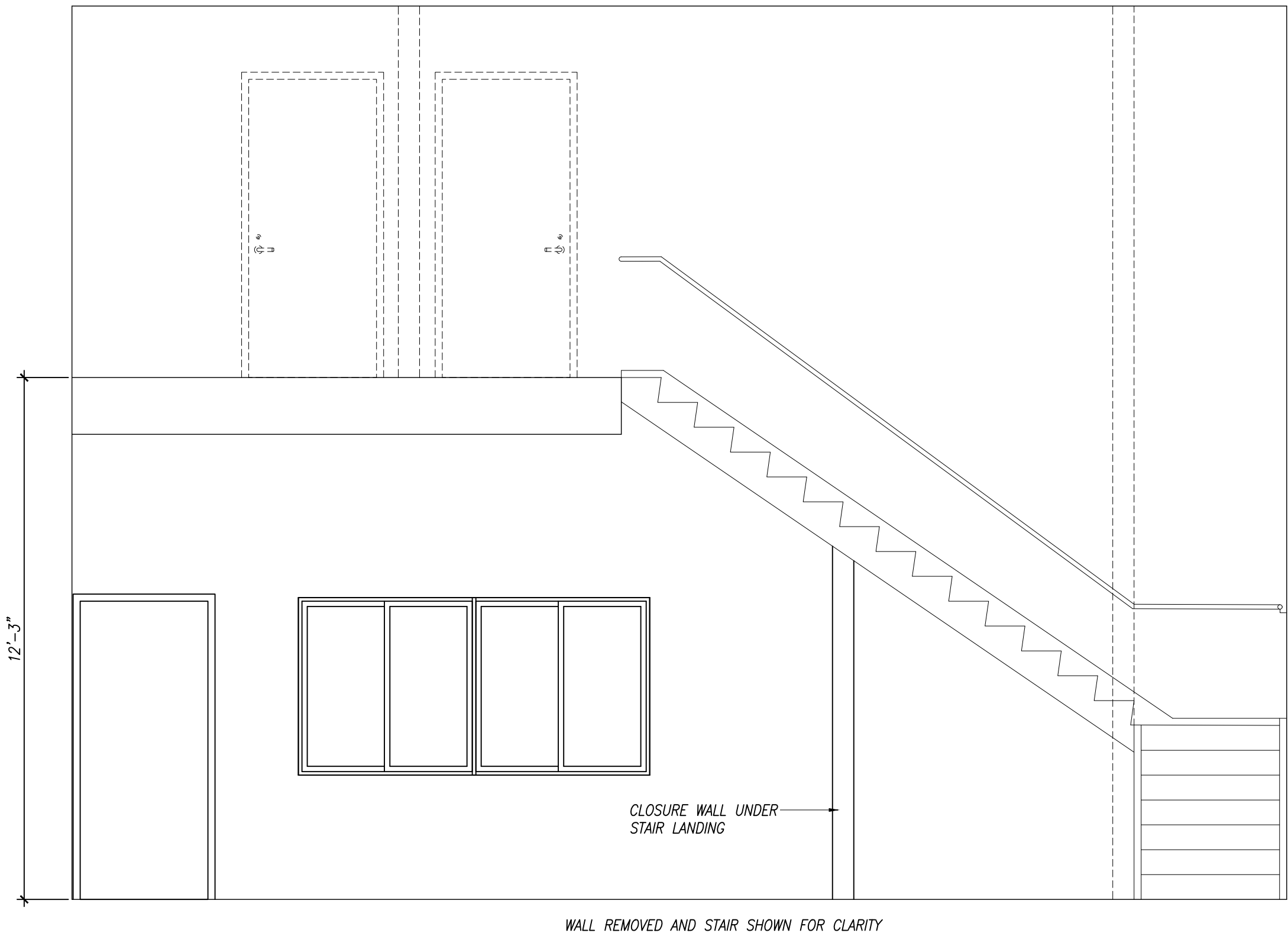
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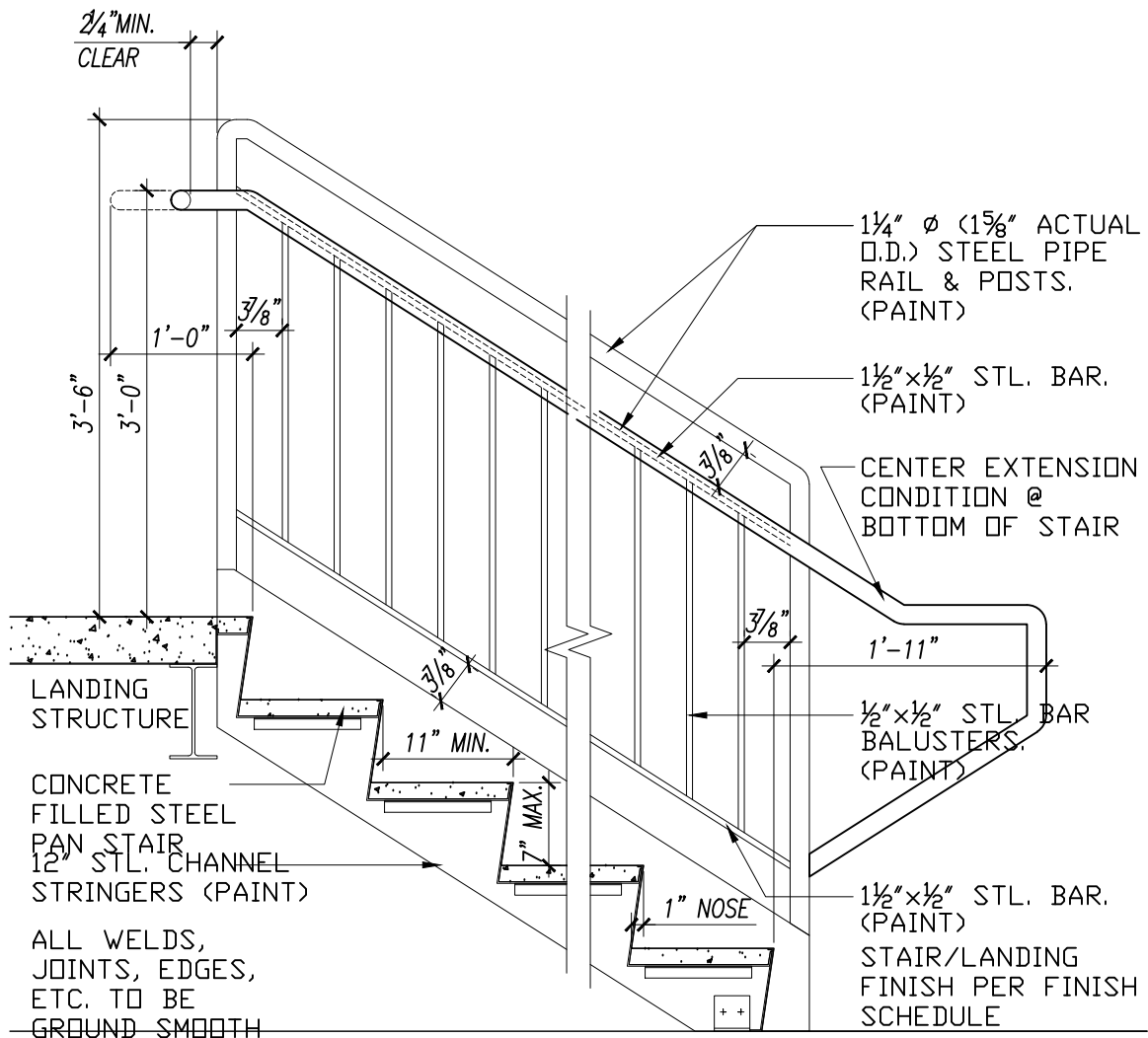
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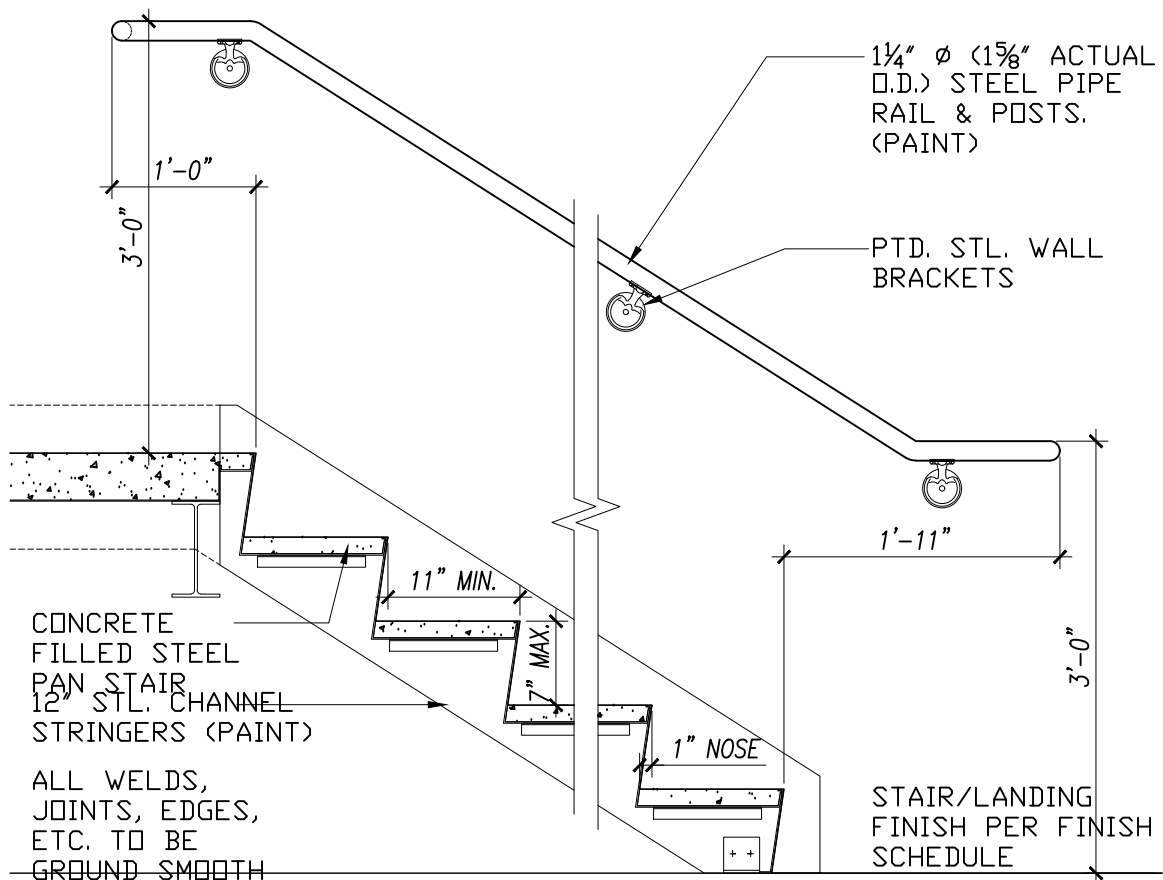


04 STAIR SECTION
SCALE: 3/8" = 1'-0"

03 TYPICAL STAIR DETAIL
SCALE: 3/4" = 1'-0"



02 TYPICAL STAIR DETAIL
SCALE: 3/4" = 1'-0" OPEN SIDE



01 TYPICAL STAIR DETAIL
SCALE: 3/4" = 1'-0" WALL SIDE

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KEY PLAN:
NORTH

REVISION	DATE	COMMENTS

PROJECT:
BARRE UNIFIED UNION
SCHOOL DISTRICT

SPAULDING EDUCATIONAL
ALTERNATIVES FACILITIES

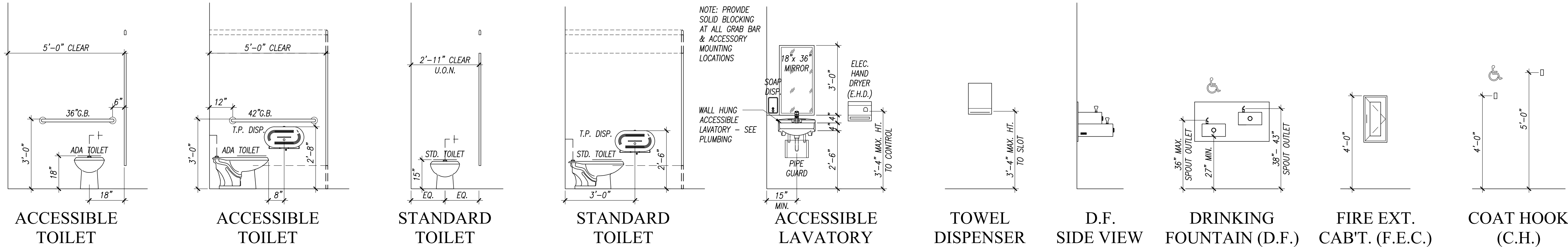
91 ALLEN STREET
BARRE, VT 05641

ISSUED: DESIGN PROGRESS

DRAWING TITLE:
STAIR

DATE: 22 JUNE 2020

SHEET NUMBER:



01

FIXTURES & ACCESSORIES

SCALE: 3/8" = 1'-0"

TOILET ROOM ACCESSORIES:

INSTALL BLOCKING FOR ALL TOILET ROOM ACCESSORIES WHETHER INSTALLED BY CONTRACTOR OR OWNER.

TOILET PARTITIONS: SOLID PLASTIC WITH PLASTIC SHOES AND WRAP AROUND HINGES. HIGH RECYCLED CONTENT.

TOILET PAPER DISPENSERS: SUPPLIED BY OWNER; GEORGIA PACIFIC; #57893

ELECTRIC HAND DRYERS: XLERATOR XL-C WITH RECESS KIT.

PAPER TOWEL DISPENSERS: SUPPLIED BY OWNER.

MIRRORS: MODEL B-290 SS 1836 BY BOBRICK.

GRAB BARS: MODEL B-6206 - 1 1/2" DIAMETER SS BY BOBRICK. CONCEALED ANCHORAGE. 1 1/2" CLEARANCE BETWEEN WALL AND INSIDE FACE OF BAR. STANDARD NON SLIP TEXTURE.

ROBE HOOK: BOBRICK B-76727

SURFACE MOUNTED SANITARY NAPKIN DISPOSAL: BOBRICK B-254

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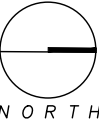
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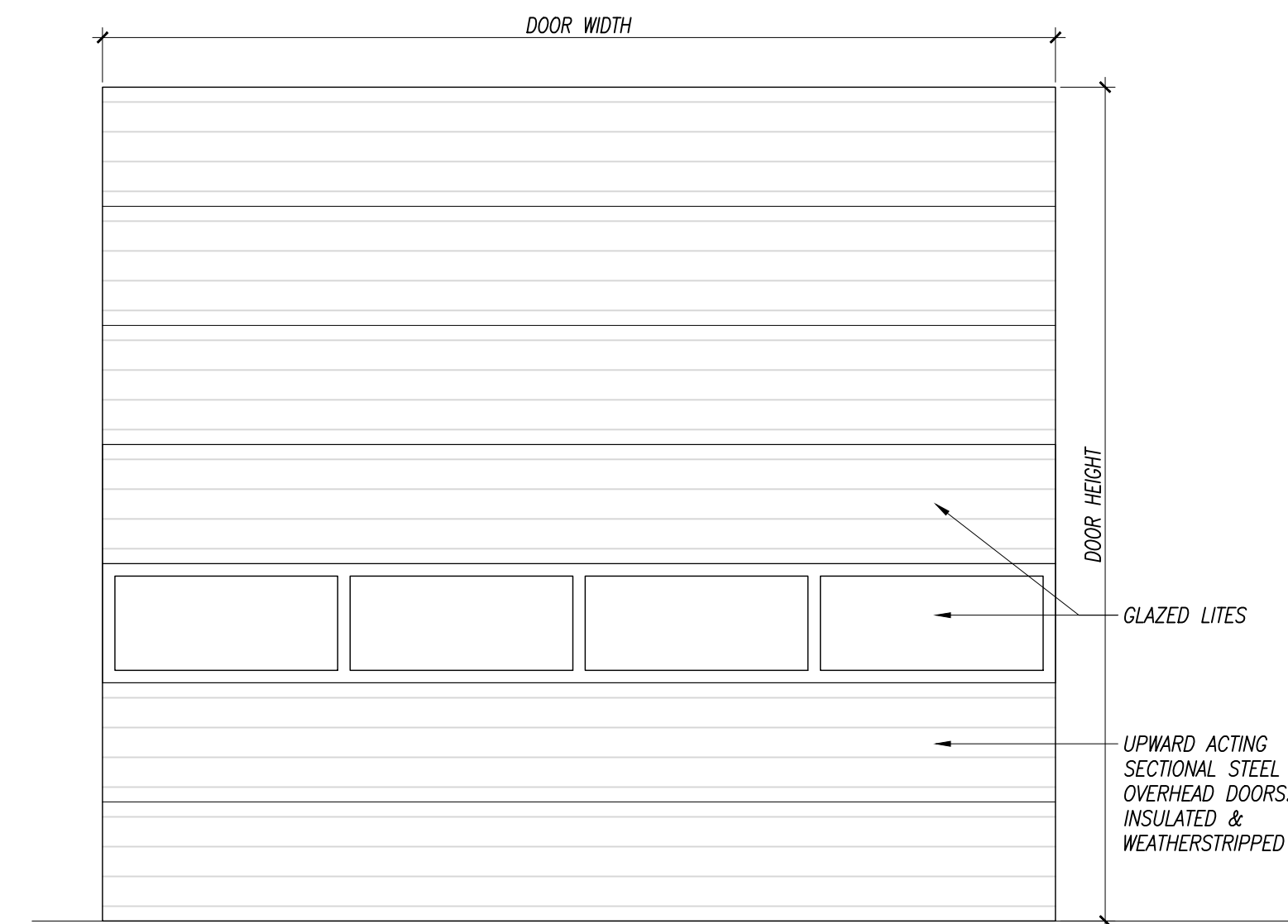
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DRAWING TITLE:
TOILETS

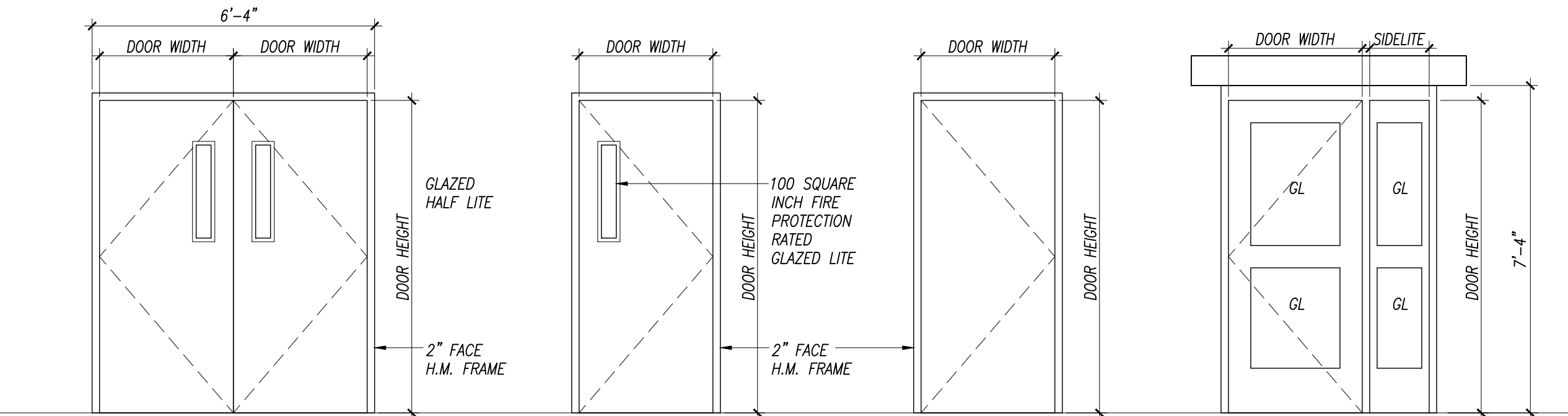
DATE: **22 JUNE 2020**

SHEET NUMBER:

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D5



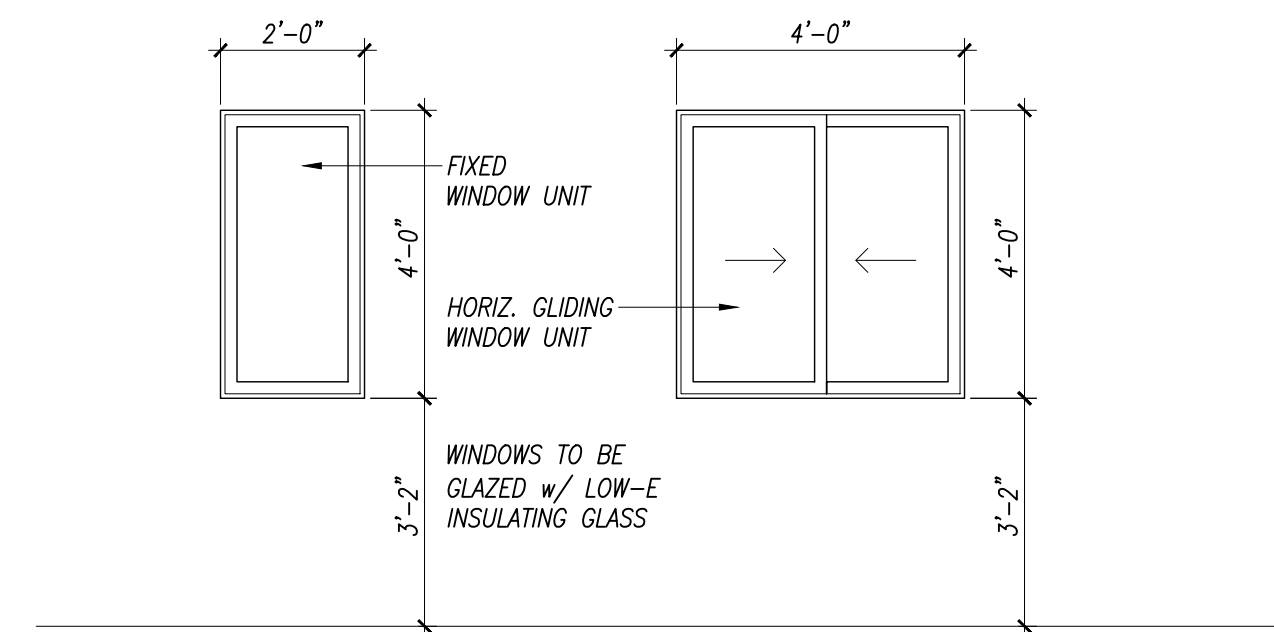
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D3

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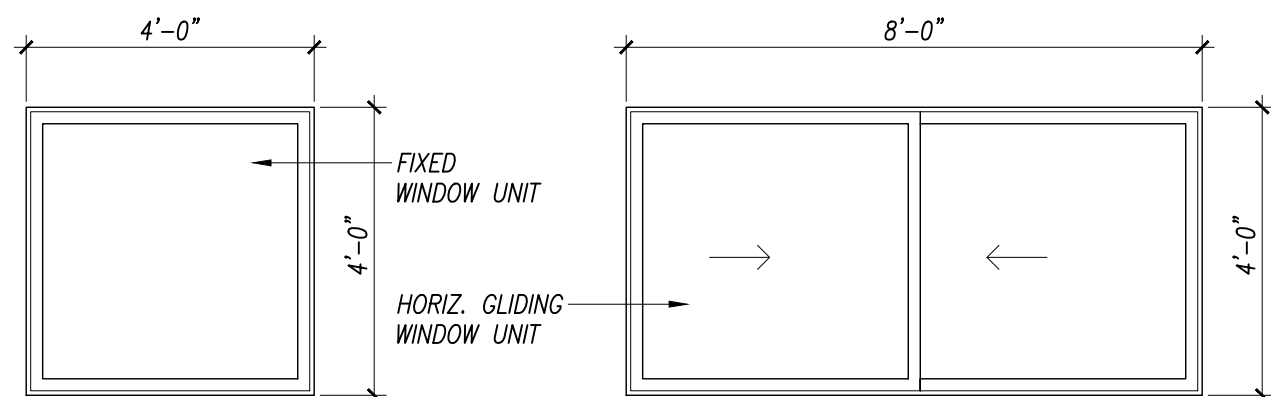
DOOR TYPES



W2

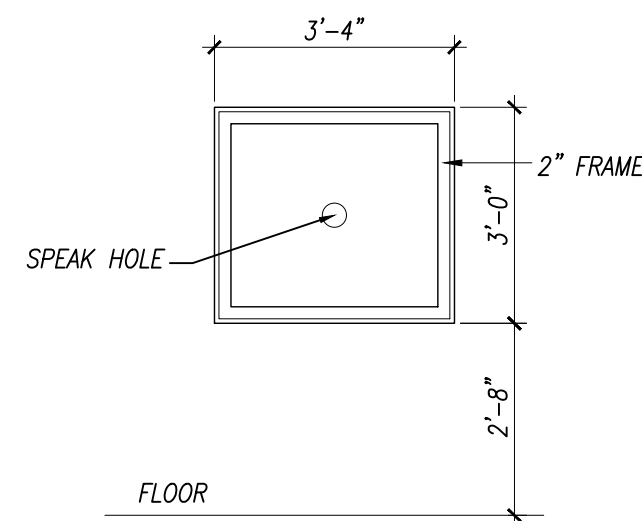
W1

WINDOW TYPES



BL-1

BL-2



BL-3

NOTES:

- COORDINATE ALL HARDWARE AND KEYING REQUIREMENTS WITH OWNER.
- DOORS 100.1, 117.1, & 125.1 TO BE COMMERCIAL ENTRY DOORS AS FOLLOWS:
EFCO 403 SERIES STOREFRONT FRAME WITH 2"x4 1/2" THERMALLY BROKEN PROFILE TO INCLUDE A NON-THERMAL EFCO 402 DOOR FRAME AND 3'-0" X 7'-0" EFCO T300 MEDIUM STYLE SINGLE DOOR.
 - 1 1/2 PAIR BUTT HINGES (CLEAR ANODIZED)
 - ADAMS RITE 1850MS DEADLOCK W/ INTERIOR THUMBTURN (CLEAR ANODIZED)
 - EXTERIOR CYLINDER (SFC HOUSING FINAL KEYING BY OTHERS)
 - ULTRA LINE 1" DIAMETER OFFSET PUSH/PULL (CLEAR ANODIZED)
 - CLOSER BY OTHERS
 - DOOR SWEEP (CLEAR ANODIZED)
 - 12" BOTTOM RAIL (BONE WHITE)
 - 4" GSG THRESHOLD (MILL)

DOOR AND FRAME FINISH TO BE EFCO BONE WHITE.

INTERIOR GLAZING TO BE 1" INSULATED CLEAR UNITS WITH INTERNAL WHITE GRIDS.

EXTERIOR GLAZING TO BE 1" INSULATED UNITS WITH HEIGHT PERFORMANCE SB60 LOW-E COATING ON THE #2 SURFACE, TEMPERED AND INTERNAL WHITE GRIDS.

CAULKING TO BE DOW CORNING CWS, COLOR TO MATCH.

PROVIDE AT DOOR 100.1 ONLY:

- VON DUPRIN SERIES 6000 ELECTRIC STRIKE.
- HORTON EASY ACCESS SERIES 7100 SURFACE APPLIED POWER SWING DOOR OPERATOR WITH PUSH BUTTON ACTUATOR
- 10R0900 WIRELESS RECEIVER (RX) IS WIRED INTO TERMINAL STRIP INSIDE OF AUTOMATIC DOOR OPERATOR ALUM HEADER (BOX) MOUNTED ABOVE OPENING.
- 10T0900PB WIRELESS TRANSMITTER (TX) IS INSIDE BEA SURFACE (SM) OR FLUSH (FM) MOUNTED BOX. PUSH PLATE SWITCH FASTENS TO THE FACE OF THE SM OR FM BOX. ONE TX REQUIRED PER WIRELESS PUSH PLATE SWITCH.

DOOR & FRAME SCHEDULE

NO.	LOCATION	DOORS				FRAMES		GLASS	LABEL	HDWR. SET	NOTES:
		TYPE	MAT'L.	WIDTH	HEIGHT	MAT'L.	THRESH.				
100.1	ENTRY 100 TO EXTERIOR	D1	ALUM.	3'-0"	7'-0"	ALUM.	ALUM.	INSUL.			CARD ACCESS
100.2	CORRIDOR 101 TO ENTRY 100	D1	H.M.	3'-0"	7'-0"	H.M.		LAM.			CARD ACCESS
105.1	CORRIDOR 101 TO WELLNESS 105	D3	H.M.	6'-0"	7'-0"	H.M.		LAM.			
105.2	WELLNESS 105 TO EXTERIOR	D3	H.M.	6'-0"	7'-0"	H.M.	ALUM.	INSUL.			INSUL. CORE & CARD ACCESS
106.1	RESTROOM 106 TO CORRIDOR 101	D2	H.M.	3'-0"	7'-0"	H.M.	MARBLE				
107.1	CORRIDOR 101 TO WOOD TECH 107	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
107.2	WOOD TECH 107 TO EXTERIOR	D3	H.M.	3'-0"	7'-0"	H.M.	ALUM.	INSUL.			
107.3	WOOD TECH 107 TO EXTERIOR	D5	OHD	8'-0"	14'-0"						INSUL. CORE & CARD ACCESS
108.1	CORRIDOR 101 TO ART/FIN 108	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			INSUL. OHD
108.2	WOOD TECH 107 TO ART/FIN 108	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
108.3	ART/FIN 108 TO WOOD TECH 107	BL-1				H.M.		LAM.			4'-0" X 4'-0"
109.1	UTILITY 109 TO METAL/MOTOR 110	D2	H.M.	3'-0"	7'-0"	H.M.					
110.1	CORR. 102 TO METAL/MOTOR 110	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
110.2	METAL/MOTOR 110 TO EXTERIOR	D3	H.M.	3'-0"	7'-0"	H.M.	ALUM.	INSUL.			INSUL. CORE & CARD ACCESS
110.3	METAL/MOTOR 110 TO EXTERIOR	D5	OHD	8'-0"	14'-0"						INSUL. OHD
111.1	CORR. 102 TO STUDENT SUP. 111	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
112.1	CORRIDOR 102 TO CLASSROOM 112	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
112.2	CLASSROOM 112 TO EXTERIOR	D2	H.M.	3'-0"	7'-0"	H.M.	ALUM.				INSUL. CORE
113.1	CORRIDOR 102 TO CLASSROOM 113	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
113.2	CLASSROOM 113 TO EXTERIOR	D2	H.M.	3'-0"	7'-0"	H.M.	ALUM.				INSUL. CORE
114.1	CORRIDOR 102 TO CLASSROOM 114	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
114.2	CLASSROOM 114 TO EXTERIOR	D2	H.M.	3'-0"	7'-0"	H.M.	ALUM.				INSUL. CORE
115.1	CORRIDOR 102 TO CLASSROOM 115	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
115.2	CLASSROOM 115 TO EXTERIOR	D2	H.M.	3'-0"	7'-0"	H.M.	ALUM.				INSUL. CORE
116.1	CORRIDOR 102 TO CLASSROOM 116	D3	H.M.	3'-0"	7'-0"	H.M.					
116.2	CLASSROOM 116 TO EXTERIOR	D2	H.M.	3'-0"	7'-0"	H.M.	ALUM.				INSUL. CORE
117.1	ENTRY 117 TO EXTERIOR	D1	ALUM.	3'-0"	7'-0"	ALUM.	ALUM.	INSUL.			CARD ACCESS
117.2	CORRIDOR 102 TO ENTRY 117	D1	H.M.	3'-0"	7'-0"	H.M.		LAM.			CARD ACCESS
118.1	CORRIDOR 102 TO WORKSPACE 118	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
119.1	CLOSET 119 TO CLASSROOM 120	D2	H.M.	3'-0"	7'-0"	H.M.					
120.1	CORRIDOR 103 TO CLASSROOM 120	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
120.2	CLASSROOM 120 TO EXTERIOR	D2	H.M.	3'-0"	7'-0"	H.M.	ALUM.				INSUL. CORE
121.1	CLOS.121 TO INDIV PROG SUITE 131	D2	H.M.	3'-0"	7'-0"	H.M.					
122.1	INDIV PROG SUITE 131 TO WORKSP 122	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
123.1	INDIV PROG SUITE 131 TO WORKSP 123	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
124.1	INDIV PROG SUITE 131 TO WORKSP 124	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
125.1	ENTRY 125 TO EXTERIOR	D1	ALUM.	3'-0"	7'-0"	ALUM.	ALUM.	INSUL.			CARD ACCESS
125.2	INDIV PROG SUITE 131 TO ENTRY 125	D1	H.M.	3'-0"	7'-0"	H.M.		LAM.			CARD ACCESS
126.1	INDIV PROG SUITE 131 TO WORKSP 126	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
127.1	INDIV PROG SUITE 131 TO WORKSP 127	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
128.1	INDIV PROG SUITE 131 TO WORKSP 128	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
129.1	CUSTODIAL 129 TO CORRIDOR 103	D2	H.M.	3'-0"	7'-0"	H.M.	MARBLE				
130.1	RESTROOM 130 TO INDIV PROG SUITE 131	D2	H.M.	3'-0"	7'-0"	H.M.		LAM.			
131.1	CORRIDOR 104 TO INDIV PROG SUITE 131	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
131.2	INDIV PROG SUITE 131 TO STUDENT SUP 133	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
132.1	UTILITY 132 TO CORRIDOR 104	D2	H.M.	3'-0"	7'-0"	H.M.					
133.1	CORRIDOR 104 TO STUDENT SUP 133	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
134.1	ADMIN CONF. RM. 135 TO ADMINISTRATOR 134	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
134.2	ADMINISTRATOR 134 TO RECEPTION 137	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
134.3	ADMINISTRATOR 134 TO ADMIN CONF. RM. 135	BL-2				H.M.		LAM.			8'-0" WIDE X 4'-0" TALL
134.4	ADMINISTRATOR 134 TO RECEPTION 137	BL-1				H.M.		LAM.			8'-0" WIDE X 4'-0" TALL
135.1	CORRIDOR 104 TO ADMIN CONF. RM. 135	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
136.1	CORRIDOR 104 TO SM CONF 136	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
136.2	SM CONF 136 TO ADMIN CONF. RM. 135	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
136.3	SM CONF 136 TO CORRIDOR 101	BL-1				H.M.		LAM.			4'-0" WIDE X 4'-0" TALL
137.1	CORRIDOR 101 TO RECEPTION 137	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
137.2	RECEPTION 137 TO ENTRY 100	BL-3				S.S					
138.1	CORRIDOR 104 TO COMMUNITY RM 138	D4	H.M.	3'-0"	7'-0"	H.M.		LAM.			
138.2	COMMUNITY RM 138 TO CORRIDOR 104	BL-2				H.M.		LAM.			8'-0" WIDE X 4'-0" TALL
139.1	RESTROOM 139 TO CORRIDOR 102	D2	H.M.	3'-0"	7'-0"	H.M.	MARBLE				
140.1	RESTROOM 140 TO CORRIDOR 102	D2	H.M.	3'-0"	7'-0"	H.M.	MARBLE				
141.1	STORAGE 141 TO CULINARY ARTS 143	D2	H.M.	3'-0"	7'-0"	H.M.					
142.1	CUSTODIAL 142 TO CULINARY ARTS 143	D2	H.M.	3'-0"	7'-0"	H.M.					
143.1	CORRIDOR 104 TO CULINARY ARTS 143	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
143.2	CULINARY ARTS 143 TO COMMUNITY RM 138	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
143.3	COILING COUNTER DOOR										
143.4	COILING COUNTER DOOR										
144.1	CORRIDOR 103 TO MULTI-MEDIA 144	D3	H.M.	3'-0"	7'-0"	H.M.		LAM.			
145.1	LAUNDRY 145 TO CORRIDOR 103	D2	H.M.	3'-0"	7'-0"	H.M.	MARBLE				
201.1	MECHANICAL 201 TO UTILITY 109	D2	H.M.	3'-0"	7'-0"	H.M.					
201.2	MECHANICAL 201 TO 107 BELOW	D4	H.M.	3'-0"	7'-0"	H.M.					NO VISION PANELS
202.1	MECHANICAL 201 TO STORAGE 202	D2	H.M.	3'-0"	7'-0"	H.M.					

NOTES:

- COORDINATE ALL HARDWARE AND KEYING REQUIREMENTS WITH OWNER.
- SEE SPECIFICATIONS FOR DOOR HARDWARE.

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KEY PLAN:



REVISION	DATE	COMMENTS

PROJECT:

**BARRE UNIFIED UNION
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**SPAULDING EDUCATIONAL
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ISSUED: **DESIGN PROGRESS**

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DATE: **22 JUNE 2020**

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[illegible]

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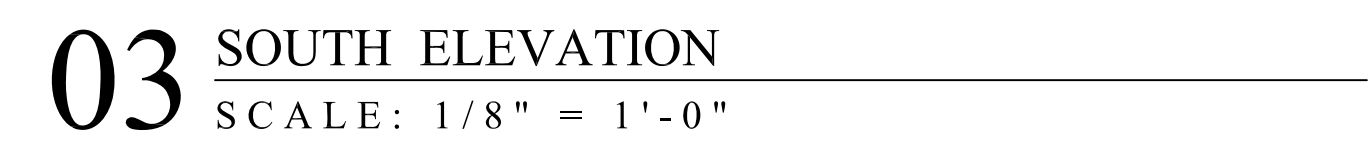
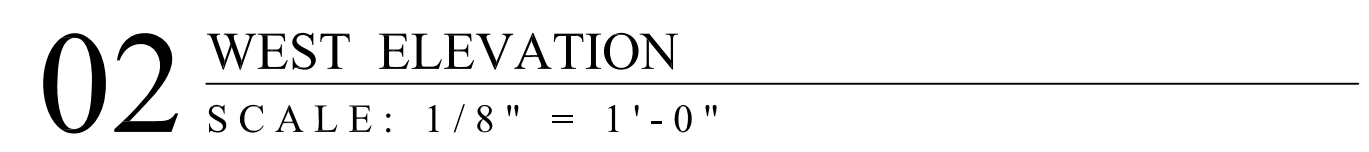
SPECIFICATIONS

DATE: 22 JUNE 2020

SHEET NUMBER:

A8.1

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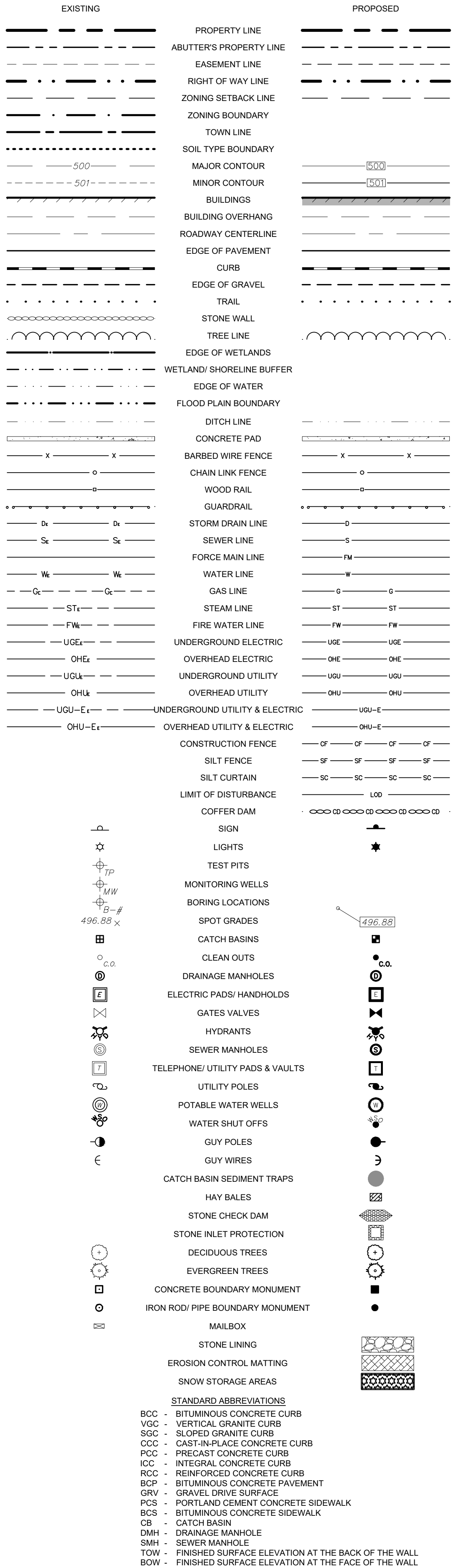
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SHEET NUMBER:

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LEGEND



PROJECT NOTES

1 GENERAL:

- 1.1 ALL WORK SHALL BE PERFORMED IN A FIRST CLASS MANNER, AND IN ACCORDANCE WITH STATE CODE (IBC 2015) WITH LATEST SUPPLEMENTS), AND LOCAL CODES AND ORDINANCES.
- 1.2 ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL CONTACT DIG-SAFE (1-888-DIG-SAFE) AT LEAST 48 HOURS AND LESS THAN 30 DAYS PRIOR TO STARTING CONSTRUCTION AND SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD.
- 1.3 THE LIMITS OF SITE WATER AND SEWER WORK SHALL TERMINATE 2'-0" INSIDE THE BUILDING. THE SITE CONTRACTOR SHALL PROVIDE PIPING. GENERAL CONTRACTOR SHALL PROVIDE SLEEVES AS NECESSARY.
- 1.4 GAS AND ELECTRIC LINES SHALL BE EXCAVATED AND BACKFILLED BY THE SITE CONTRACTOR. PIPING SHALL BE PROVIDED AND INSTALLED BY THE APPROPRIATE SUBCONTRACTOR.
- 1.5 USE THESE CIVIL DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, LANDSCAPING & MECHANICAL DRAWINGS. SHOULD A CONFLICT DEVELOP, NOTIFY THE ENGINEER BEFORE PROCEEDING.
- 1.6 ALL DIMENSIONS AND ELEVATIONS SHOWN MUST BE VERIFIED BY THE CONTRACTOR DURING CONSTRUCTION BY THE AID OF DRAWINGS, FIELD CHECKS, AND SUBCONTRACTORS SHOP DRAWINGS.
- 1.7 CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES, AND UTILITY LINES FROM ALL DAMAGE.
- 1.8 CONTRACTOR IS RESPONSIBLE FOR ADEQUATE BRACING OF WALLS AND/OR SHORING OF EXCAVATIONS DURING CONSTRUCTION.
- 1.9 THE CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS AND SUBMITTALS BEFORE SUBMISSION TO THE ENGINEER. THUS, PROVIDING ANY INFORMATION REQUIRED OF THE FABRICATOR SUCH AS FIELD DIMENSIONS, ELEVATIONS, ETC. OTHERWISE THE SHOP DRAWINGS OR SUBMITTALS WILL BE REJECTED UNTIL SUCH INFORMATION IS FURNISHED BY THE CONTRACTOR.
- 1.10 BACKFILL INSIDE OF FOUNDATION WALLS, UNDER CONCRETE SURFACES, AND UNDER PAVED SURFACES WITH IMPORTED GRAVEL FOR SUBBASE, OR SELECTED ON-SITE MATERIAL, THAT WILL MEET STRUCTURAL BACKFILL SIEVE ANALYSIS AND COMPACTION CRITERIA, AS DEFINED BY THE TESTING LABORATORY, IN 8" LIFTS TO 95% OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT, ASTM D1557.
- 1.11 GENERAL BACKFILL SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT ASTM D1557.
- 1.12 ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED, TO BE TOPSOILED, SEEDED, AND MULCHED.

2 CONCRETE:

- 2.1 ALL CONCRETE AND REINFORCING WORK SHALL BE IN STRICT ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14)". EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED WITH AIR CONTENT OF 6% TO 8%. REINFORCED EXTERIOR SLAB CONCRETE SHALL HAVE A CORROSION INHIBITIVE ADMIXTURE. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SUBMIT CONCRETE MIX DESIGN FOLLOWING PROCEDURES OUTLINED IN THE FLOW CHART IN CHAPTER 5 OF ACI 301 FOR REVIEW OF ENGINEER. CONTRACTOR SHALL TAKE 1 TEST CYLINDERS OF CONCRETE FOR EACH 100 CUBIC YARDS OF CONCRETE OR FOR EACH DAYS POUR IF LESS THAN 50 C.Y. TESTING WILL BE AT OWNER'S EXPENSE.
- 2.2 MAXIMUM W/C RATIO FOR 4000 PSI CONCRETE: 0.44
- 2.3 CONCRETE SHALL BE PROTECTED FROM FREEZING. CONTRACTOR SHALL FOLLOW THE "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING (ACI 306, LATEST EDITION).
- 2.4 ALL CONCRETE SHALL BE PLACED IN THE DIRT, PUMP WATER FROM EXCAVATIONS AS NECESSARY.
- 2.5 USE A PLASTICIZER ADDITIVE FOR SLAB ON GRADE CONCRETE. PROVIDE THE STANDARD MIX, EXCEPT THE SLUMP, BEFORE ADDING THE MID RANGE PLASTICIZER SHALL BE 2" +/- 0R- 1". SLUMP SHALL NOT EXCEED 6". DO NOT EXCEED SPECIFIED WATER CEMENT RATIOS.
- 2.6 CONCRETE SHALL BE SO PROPORTIONED SO AS TO HAVE A MAXIMUM SLUMP OF 4", EXCEPT CONCRETE SPECIFIED TO HAVE A PLASTICIZER SHALL HAVE A SLUMP OF 2" +/- 0R- 1".
- 2.7 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE SETTING SCREEDS AND FORMS. FORM RELEASE OIL SHALL BE AN APPROVED NON-TOXIC LIQUID.
- 2.8 SLABS SHALL BE WET CURED USING BURLAP COVER TO KEEP ENTIRE SURFACE CONTINUOUSLY MOIST FOR A MINIMUM OF SEVEN DAYS.
- 2.9 DURING PLACEMENT OF CONCRETE, USE TREMIE OR OTHER MEANS TO LIMIT FREE-FALL OF CONCRETE TO 5 FEET.
- 2.10 CONCRETE SHALL BE CONSOLIDATED BY VIBRATION, SPADING, OR RODDING SO THE CONCRETE IS THOROUGHLY WORKED AROUND THE REINFORCEMENT, EMBEDDED ITEMS, AND INTO CORNERS OF FORMS, ELIMINATING ALL AIR. STONE OR ROCK WHICH MAY CAUSE HONEYCOMBING, (CARE SHALL BE TAKEN NOT TO OVER VIBRATE OR CAUSE SEGREGATION).

3 REINFORCING STEEL

- 3.1 REINFORCING STEEL SHALL BE NEW BILLET STEEL, ASTM A615, Fy=60 KSI.
- 3.2 THE MINIMUM CLEAR DISTANCE FROM REIN. STEEL TO ADJACENT SURFACE SHALL BE: 3" FROM BOTTOM OF SLAB ON GRADE AND 2" FROM EDGES OF SLAB ON GRADE.
- 3.3 PROVIDE LAP SPICES OF ALL SLAB REINFORCEMENT AS FOLLOWS: #5 BAR - 2'-4" MINIMUM; #7 BAR - 3'-8" MINIMUM; AT CHANGES IN DIRECTION OF SLAB, PROVIDE CORNER BARS WITH LESS EQUAL TO BAR LAP SPICE LENGTH (MINIMUM).
- 3.4 REINFORCEMENT SHALL BE SECURELY TIED IN ITS PROPER PLACE BEFORE AND DURING CONCRETE PLACEMENT. OPERATIONS USING APPROVED TIES, CHAIRS, AND SPACERS AS REQUIRED. NO BARS SHALL BE CUT OR OMITTED WITHOUT THE APPROVAL OF THE ENGINEER. USE PLASTIC TYPED ACCESSORIES IN CONCRETE EXPOSED TO WEATHER, WATER, OR VIEW.

4 PRECAST CONCRETE:

- 4.1 PRECAST CONCRETE SHALL BE THE PRODUCT OF A MANUFACTURER WHO HAS DEMONSTRATED THE ABILITY TO PRODUCE PRECAST PRODUCTS AND HAS BEEN IN BUSINESS FOR AT LEAST THE LAST THREE YEARS. THE MANUFACTURING PLANT AND METHODS SHALL CONFORM TO THE LATEST STANDARDS OF THE PRECAST CONCRETE INSTITUTE. THE DESIGN OF THE PRECAST MEMBERS SHALL BE BY A REGISTERED ENGINEER EXPERIENCED IN THE DESIGN OF PRECAST, PRESTRESSED CONCRETE DESIGN. PRECAST CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS OR HIGHER STRENGTH AS DEEMED NECESSARY BY DESIGN. ALL STEEL CONNECTION MATERIAL SHALL BE HOT-DIPPED GALVANIZED.

4.1.1 THE SUPERIMPOSED DESIGN LOADS ON ALL BURIED STRUCTURES SHALL MEET OR EXCEED AASHTO HS-20 LOADING UNLESS OTHERWISE NOTED.

5 MATERIAL SPECIFICATIONS:

- 5.1 CONTRACTOR TO PROVIDE SUBMITTALS TO ENGINEER FOR ALL MATERIALS SHOWN ON THE DESIGN PLANS AND/OR ANY MATERIALS WHICH ARE TO BE SUBSTITUTED FOR USE ON SITE FOR APPROVAL PRIOR TO CONSTRUCTION.
- 5.2 MATERIALS NOT SPECIFIED HEREIN SHALL MEET OR EXCEED VERMONT AGENCY OF TRANSPORTATION (VOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 5.3 GENERAL FILL SHALL BE A COMPACTABLE SAND OR GRAVEL REASONABLY FREE FROM LOAM, SILT, CLAY AND ORGANIC MATERIALS AND SHALL HAVE 0-20 PERCENT PASSING THE NO. 100 SIEVE AND 40-100 PERCENT PASSING THE NO. 4 SIEVE.
- 5.4 GRAVEL FOR SUBBASE SHALL BE 0-12 PERCENT PASSING A NO. 100 SIEVE AND 0-6 PERCENT PASSING A NO. 200 SIEVE.
- 5.5 CRUSHED GRAVEL FOR SUBBASE SHALL BE FREE FROM LOAM, SILT, CLAY AND ORGANIC MATERIALS AND SHALL HAVE 100 PERCENT PASSING A 2 INCH SIEVE, 90-100 PERCENT PASSING A 1 INCH SIEVE, 30-60 PERCENT PASSING A NO. 4 SIEVE, 0-12 PERCENT PASSING A NO. 100 SIEVE AND 0-6 PERCENT PASSING A NO. 200 SIEVE.
- 5.6 DENSE GRADED CRUSHED STONE SHALL BE: FREE FROM LOAM, SILT, CLAY AND ORGANIC MATERIALS AND SHALL HAVE 100 PERCENT PASSING A 3 1/2" SIEVE, 90-100 PERCENT PASSING A 3 INCH SIEVE, 75-100 PERCENT PASSING A 2 INCH SIEVE, 50-80 PERCENT PASSING A 1 INCH SIEVE, 30-60 PERCENT PASSING A 1/2" SIEVE, 15-40 PERCENT PASSING A NO. 4 SIEVE, AND 0-6 PERCENT PASSING A NO. 200 SIEVE.

6 PROJECT PERMITS:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF AND ABIDE BY THE CONDITIONS OF THE PERMITS LISTED.

- 6.1 LOCAL APPROVALS
- 6.3 VERMONT STORMWATER MANAGEMENT DIVISION
CONSTRUCTION EROSION CONTROL PERMIT 3-9020
- 6.4 VERMONT DRINKING WATER AND GROUNDWATER PROTECTION DIVISION
WASTEWATER SYSTEM AND POTABLE WATER SUPPLY PERMIT
- 6.5 VERMONT DIVISION OF FIRE SAFETY
UNDERGROUND SPRINKLER SYSTEM PIPING

EROSION CONTROL DURING CONSTRUCTION

1. BEFORE ANY CLEARING, GRUBBING, OR DEMOLITION OF THE SITE IS INITIATED, AND DURING ALL EARTHWORK PHASES, EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED AT THE INLET OF ANY STORM DRAINS, SWALES, AND DITCHES RECEIVING WATER FROM THE PROJECT. SEE TYPICAL DETAILS AND PLANS FOR TYPES AND LOCATIONS.
2. SILT FENCE SHALL BE PLACED DOWN GRADIENT OF ALL DISTURBED AREAS. IF THE DISTURBED AREA IS 100' OR LESS FROM THE WATERS OF THE STATE THE SILT FENCE SHALL BE WIRE MESH REINFORCED.
3. ALL STOCKPILED SOIL SHALL BE ENCLOSED WITH SILT FENCE, UNLESS AN EXISTING BARRIER WILL ENTRAP ALL EROSION FROM SUCH A STOCKPILE OR THE STOCKPILE IS COMPLETELY COVERED WITH VEGETATION THAT PREVENTS EROSION.
4. NO MORE THAN 500 FEET OF TRENCH SHALL BE OPEN AT ONE TIME AND EXCAVATED MATERIAL TO BE USED FOR BACKFILL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH. ALL OTHER EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF-SITE AT AN APPROVED LOCATION.
5. STONE CHECK DAMS SHALL BE PLACED IN NEWLY CONSTRUCTED SWALES, DITCHES, OR OTHER WATERWAYS DURING THE CONSTRUCTION PERIOD. STONE INLET PROTECTION OR SEDIMENT CATCH BASIN INSERTS SHALL BE PLACED IN ALL NEW AND EXISTING CATCH BASIN WHICH RECEIVE RUNOFF FROM DISTURBED AREAS. THE PLACING OF THESE TRAPS AND DAMS SHALL BE AS SHOWN ON THE PLANS.
6. EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM NUMBER REQUIRED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO USE ADDITIONAL BARRIERS AS FIELD CONDITIONS DICTATE AND TO INSURE THAT ANY EROSION CONTRARY TO THIS PROJECT DOES NOT REACH THE STATE'S WATERWAYS OR LEAVE THE SITE.
7. NEW SWALES AND DITCHES (AND ANY OTHER AREA SUBJECT TO CONCENTRATED STORM RUNOFF) SHALL BE FERTILIZED AND SEEDDED WITH THE WET AREA SEED MIXTURE AS #10 TO AT LEAST TWO (2) FEET ABOVE THE CHANNEL BOTTOM AND SHALL HAVE MULCH APPLIED AT THE RATE OF 2 TONS PER ACRE.
8. IN ALL NEW SWALES AND DITCHES, AND WHERE SLOPE GRAD EXCEEDS 25 PERCENT (1 ON 4 SLOPE), JUTE MATTING SECURELY ATTACHED TO THE GROUND SHALL BE PLACED OVER MULCH AND MAINTAINED UNTIL A PERMANENT GRASS COVER IS ESTABLISHED.
9. ALL DISTURBED TERRAIN AT FINAL GRADE SHALL BE SEEDDED AND MULCHED WITHIN 48 HOURS OF COMPLETION, AND BY SEPTEMBER 15TH AT THE LATEST, BEFORE APPLYING FINAL SEEDING FOUR (4) INCH AVERAGE DEPTH OF TOPSOIL SHALL BE PLACED IN ALL DISTURBED AREAS TO BE SEEDDED. SEED MIXTURES SHALL BE ONE AS SPECIFIED ON THE LANDSCAPING PLAN. IF NO SEED MIXTURE IS SPECIFIED IT SHALL BE ONE OF THE FOLLOWING, AS APPROPRIATE.

URBAN AREAS CONSERVATION MIX			WET AREA SEED MIX			GRAVEL SITES CONSERVATION MIX		
NAME	LBS/ACRE	% WT.	NAME	% MIX		NAME	LBS/ACRE	% WT.
CREeping RED FESCUE	34.0	42.5	VIRGINIA WILD RYE GRASS	20		SWITCH GRASS	4.0	32.0
PERENNIAL RYE GRASS	8.0	10.0				BIG BLUESTEM	4.0	32.0
KENTUCKY BLUE GRASS	34.0	42.5	FOX SEDGE	10		LITTLE BLUESTEM	2.0	16.0
ANNUAL RYEGRASS	4.0	5.0	AMERICAN MANNA GRASS	20		SAND LOVEGRASS	2.0	16.0
	80.0	5.0	GIANT BUR-REED	10		BLACK EYED SUSAN	1.0	8.0
			COMMON THREE-SQUARE	20			13.0	100.0
RURAL AREAS CONSERVATION MIX			SOFT-STEM BULRUSH	10		UPLAND NATIVE MIX FOR DRY SITES		
NAME	LBS/ACRE	% WT.	CANADA RUSH	10		NAME	LBS/ACRE	% WT.
CREeping RED FESCUE	22.5	37.5		100		JAPANESE MILLET OR BARLEY	10.0	40.0
TALL FESCUE	22.5	37.5				BIG BLUESTEM	6.5	26.0
RED TOP	3.0	5.0				LITTLE BLUESTEM	3.5	14.0
BIRDSFOOT TREFOIL	9.0	15.0				INDIAN GRASS	3.5	14.0
ANNUAL RYEGRASS	3.0	5.0				SWITCH GRASS	1.5	6.0
	80.0	100%					25.0	100%
LOW GROW/FINE FESCUE MIX			RETENTION BASIN MIX					
NAME	LBS/ACRE	% WT.	NAME	LBS/ACRE	% WT.			
CREeping RED FESCUE	-	38	RED TOP	5.0	20.0			
SPARTAN HARD FESCUE	-	28	CREeping BENT GRASS	5.0	20.0			
AZAY SHEEP'S FESCUE	-	15	FLOWER BELL RYE	5.0	20.0			
ANNUAL RYEGRASS	-	15	RIVER BLUEGRASS	5.0	20.0			
INERTS	-	3	ALKALIGRASS	5.0	20.0			
	-	100%		25.0	100%			

- ALL NEWLY SEEDED AREAS SHALL BE MULCHED AT A RATE OF TWO (2) TONS PER ACRE OF HAY OR STRAW. DURING WINTER CONSTRUCTION MULCH SHALL BE APPLIED AT A RATE OF 4 TONS PER ACRE. SEED OR OTHER EQUAL NUTRITIONAL HAYED WHERE WIND OR WATER MAY ERODE NEWLY-PLACED SEED OR MULCH OR WHERE GRADE EXCEEDS 25% (1:4). ALL NETTING, WHEN USED, SHALL BE STAKED TO THE GROUND IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
11. ALL AREAS THAT REACH FINISHED GRADE DURING THE WINTER CONSTRUCTION SEASON SHALL BE MULCHED AT A RATE OF 4 TONS/ACRE AND TACKED DOWN TO PREVENT WINDTHROW WITHIN 24 HOURS OF REACHING FINAL GRADE. THESE AREAS SHALL BE SEEDED AS SPECIFIED IN NOTE 11 IN THE SPRING AS SOON AS WEATHER ALLOWS.
12. ALL HAY MULCH SHALL BE TACKED DOWN TO PREVENT WINDTHROW. YULF MATTING OR EQUIVALENT SHALL BE USED WHERE INDICATED ON PLANS. IN ALL OTHER AREAS MULCH SHALL BE TRACKED WITH A BULLDOZER. THE CLEATS OF THE BULLDOZER SHALL BE PARALLEL TO THE CONTOURS. DURING THE WINTER CONSTRUCTION SEASON NETTING OR YULF MATTING SHALL BE USED TO TACK DOWN ALL MULCH.
13. ALL DISTURBED AREAS NOT AT FINAL GRADE THAT WILL NOT BE DISTURBED AGAIN FOR A PERIOD OF GREATER THAN THIRTY (30) DAYS, SHALL BE SEEDED WITH A TEMPORARY, RAPID-GROWING COVER CROP, SUCH AS RYE GRASS AND MILLET, AND SHALL BE MULCHED. NETTING SHALL ALSO BE APPLIED, AS SPECIFIED IN ITEM 13, TO STABILIZE THE MULCH AND SEED.
14. ALL DISTURBED AREAS MUST HAVE TEMPORARY OR FINAL STABILIZATION WITHIN 14 DAYS OF THE INITIAL DISTURBANCE. AFTER THIS TIME, ANY DISTURBANCE IN THE AREA MUST BE STABILIZED AT THE END OF EACH WORK DAY. THE FOLLOWING EXCEPTIONS APPLY: i) STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA IN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS. ii) STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E. NO OUTLET) WITH A DEPTH OF 2-FEET OR GREATER (E.G. FOUNDATION EXCAVATION, UTILITY TRENCHES).
15. DURING WINTER CONSTRUCTION ALL DISTURBED AREAS MUST HAVE TEMPORARY OR FINAL STABILIZATION AT THE END OF EACH WORK DAY. THE FOLLOWING EXCEPTIONS APPLY: i) STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA IN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS. ii) STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E. NO OUTLET) WITH A DEPTH OF 2-FEET OR GREATER (E.G. FOUNDATION EXCAVATION, UTILITY TRENCHES).
16. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF PERMANENT STABILIZATION OF THE SITE.
17. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AS WELL AS BEFORE AND AFTER ANY RAIN EVENT BY THE ON-SITE COORDINATOR, WHO WILL BE RESPONSIBLE FOR RECTIFYING ANY PROBLEMS FOUND. ALL INSPECTIONS SHALL BE RECORDED IN THE RECORD OF THE CONDITION OF THE EROSION CONTROL MEASURES. TEMPORARY EROSION CONTROL MEASURE SHALL BE REMOVED WITH 30 DAYS OF PERMANENT SITE STABILIZATION. DURING THE WINTER CONSTRUCTION SEASON SPECIAL ATTENTION SHALL BE PAID TO THE CHANGES IN WEATHER THAT COULD CAUSE SIGNIFICANT SNOW MELT AND RUNOFF.
18. NO MORE THAN 3 ACRES SHALL BE DISTURBED (WITHOUT TEMPORARY OR FINAL STABILIZATION) AT ANY ONE TIME.
19. SEEDING MUST BE COMPLETED SEPTEMBER 15.
20. CONTRACTOR SHALL APPLY DUST CONTROL MEASURES AS NECESSARY OR AS DIRECTED BY THE ENGINEER TO PREVENT THE AIR MOVEMENT OF DUST. ACCEPTABLE METHODS OF DUST CONTROL ARE VEGETATIVE COVER, MULCHING, SPRINKLING OF WATER, OR THE USE OF CALCIUM CHLORIDE.
21. AT THE COMPLETION OF THE PROJECT, ALL STORMWATER DRAINAGE FACILITIES INCLUDING DITCHES, GRASSED SWALES, CATCH BASINS, SUMPS, CULVERTS, STORM DRAINS, STORM MANHOLES, OUTLET STRUCTURES, STORM OVERLAYS, AND SHEDS SHALL BE CLEANED AND FREE OF SILT, SEDIMENT OR DEBRIS WHICH IMPAIR THE PROPER OPERATION OF THE FACILITIES.

LEAKAGE TESTING OF WATER DISTRIBUTION PIPING

1. USE LEAKAGE/ PRESSURE TESTING PROCEDURE PRESCRIBED IN NFPA 24 OR AWWA C600 AS APPROPRIATE.
2. CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS PRIOR TO TESTING. ENGINEER MUST BE PRESENT AT TEST FOR ACCEPTANCE.
3. AFTER TESTING AND PRIOR TO ACCEPTANCE THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH AS-BUILT DRAWINGS.
 - A. AFTER PIPE HAS BEEN LAID, ALL NEWLY LAID PIPE OR ANY VALVED SECTION THEREOF SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE OF AT LEAST 200 PSI OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICH EVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE FOR NOT LESS THAN 2 HOURS.
 - B. BEFORE APPLYING THE SPECIFIED TEST PRESSURE, ALL AIR SHALL BE REMOVED FROM THE TEST SECTION.
 - D. TESTING ALLOWANCE SHALL BE DEFINED AS THE QUANTITY OF MAKEUP WATER THAT MUST BE SUPPLIED INTO THE NEWLY LAID PIPE OR ANY VALVED SECTION THEREOF TO MAINTAIN PRESSURE WITHIN 5 PSI OF THE SPECIED TEST PRESSURE AFTER THE PIPE HAS BEEN FILLED WITH WATER AND THE AIR HAS BEEN EXPELLED.
 - E. NO PIPE INSTALLATION SHALL BE ACCEPTED IF THE AMOUNT OF MAKEUP WATER IS GREATER THAN THAT ALLOWED BY NFPA 24 OR AWWA C600.
 - F. PREPARE REPORTS FOR PRESSURE TESTING RESULTS.

CLEANING AND DISINFECTION OF WATER DISTRIBUTION PIPING

- PURGE THE WATER DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED PRIOR TO USE.
2. USE PURGING AND DISINFECTING PROCEDURE PRESCRIBED BY AUTHORITY HAVING JURISDICTION OR, IF METHOD IS NOT PRESCRIBED BY THAT AUTHORITY, USE PROCEDURE DESCRIBED IN AWWA C651 AS DESCRIBED BELOW.
- 2.1. DISINFECTION OF WATER LINES PER AWWA C651 IS TO BE BY THE CONTINUOUS FEED METHOD OR THE SLUG METHOD. THE TABLET METHOD DESCRIBED IN AWWA C651 NOT ACCEPTABLE AND IS HEREBY STRICTLY PROHIBITED.
- 2.2. COMPLY WITH NFPA 24 FOR FLUSHING OF PIPING. FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT POINTS OF OUTLET.
- 2.3. FILL SYSTEM OR PART OF SYSTEM WITH WATER/CHLORINE SOLUTION CONTAINING AT LEAST 25 PARTS PER MILLION OF CHLORINE. ISOLATE (VALVE OFF) SYSTEM OR PART THEREOF AND ALLOW TO STAND FOR 24 HOURS.
- 2.4. MEASURE FREE CHLORINE RESIDUAL AFTER 24 HOUR STANDING PERIOD. IF THE FREE CHLORINE RESIDUAL IS LESS THAN 10 mg/l, FLUSH AND REFILL THE LINE AND REPEAT CHLORINATION FOR AN ADDITIONAL 24 HOURS.
- 2.5. FOLLOWING ALLOWED STANDING TIME, FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL CHLORINE DOES NOT REMAIN IN WATER COMING FROM SYSTEM.
- 2.6. A MINIMUM OF TWO WATER SAMPLES MUST BE COLLECTED A MINIMUM OF 24 HOURS APART FOR BACTERIOLOGICAL TESTING. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO A LABORATORY APPROVED BY THE VERMONT DEPARTMENT OF HEALTH (OR AUTHORITY HAVING JURISDICTION) FOR DRINKING WATER ANALYSIS. REPEAT PROCEDURE IF BIOLOGICAL EXAMINATION MADE BY AUTHORITY SHOWS EVIDENCE OF CONTAMINATION.
- 2.7. PREPARE REPORTS FOR PURGING AND DISINFECTING ACTIVITIES. CONTRACTOR SHALL SEND ENGINEER TEST RESULTS.
3. DECHLORINATION
- 3.1. DO NOT KEEP HEAVILY CHLORINATED WATER IN CONTACT WITH PIPE FOR MORE THAN 48 HOURS AFTER THE APPLICABLE RETENTION PERIOD. IN ORDER TO PREVENT DAMAGE TO THE PIPE LINING OR CORROSION DAMAGE TO THE PIPE ITSELF, FLUSH THE HEAVILY CHLORINATED WATER FROM THE MAIN FITTINGS, VALVES, AND BRANCHES UNTIL CHLORINE MEASUREMENTS SHOW THAT THE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE DISTRIBUTION SYSTEM OR IS ACCEPTABLE FOR DOMESTIC USE. TAKE ALL STEPS NECESSARY TO DECHLORINATE WATER PER PARAGRAPHS 3.2 AND 3.3 BELOW.
- 3.2. NEUTRALIZE THE CHLORINE RESIDUAL OF THE WATER BEING DISPOSED OF BY TREATING WITH ONE OF THE CHEMICALS LISTED IN TABLE 4 BELOW. SELECT AN ALTERNATIVE DISPOSAL SITE IF A SANITARY SEWER SYSTEM IS UNAVAILABLE FOR DISPOSAL OF THE CHLORINATED WATER.
- 3.3. THE PROPOSED ALTERNATIVE DISPOSAL SITE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER. APPLY A REDUCING AGENT TO THE CHLORINATED WATER TO BE WASTED TO COMPLETELY NEUTRALIZE THE CHLORINE RESIDUAL REMAINING IN THE WATER. (SEE TABLE A FOR NEUTRALIZING CHEMICALS, DO NOT USE ANY NEUTRALIZING CHEMICALS AS THIS MAY RESULT IN ADVERSE ENVIRONMENTAL IMPACTS. ONLY DOSE THE AMOUNT REQUIRED TO NEUTRALIZE THE AMOUNT OF CHLORINE PRESENT). CONTACT FEDERAL, STATE AND LOCAL REGULATORY AGENCIES, WHERE NECESSARY, TO DETERMINE SPECIAL PROVISIONS FOR THE DISPOSAL OF HEAVILY CHLORINATED WATER.
- POUNDS OF CHEMICAL REQUIRED TO NEUTRALIZE VARIOUS RESIDUAL CHLORINE CONCENTRATIONS IN 100,000 GALLONS OF WATER
- | RESIDUAL CHLORINE CONCENTRATION (MG/L) | SULFUR DIOXIDE (LBS) | SODIUM BISULFATE (LBS) | SODIUM SULFITE (LBS) | SODIUM THIOSULFATE (LBS) | ASCORBIC ACID (LBS) |
|--|----------------------|------------------------|----------------------|--------------------------|---------------------|
| 1 | 0.8 | 1.2 | 1.4 | 1.2 | 2.1 |
| 2 | 1.7 | 2.5 | 2.9 | 2.4 | 4.2 |
| 10 | 8.3 | 12.5 | 14.6 | 12.0 | 20.9 |
| 50 | 41.7 | 62.6 | 73.0 | 60.0 | 104.0 |
- 3.4. TEST FOR CHLORINE RESIDUAL THROUGHOUT THE DISPOSAL PROCESS TO BE SURE THAT THE CHLORINE IS NEUTRALIZED.
- 3.5. SUBMIT A PLAN OF DISPOSAL OF FLUSHED WATER TO ENGINEER FOR APPROVAL.
- 3.6. DISCHARGE OF CHLORINATED WATER INTO WATERS OF THE STATE IS STRICTLY PROHIBITED.

LEAKAGE TESTING OF SEWER PIPING AND MANHOLES

1. USE LEAKAGE TESTING PROCEDURE PRESCRIBED BY AUTHORITY HAVING JURISDICTION OR, IF METHOD IS NOT PRESCRIBED BY THAT AUTHORITY, USE PROCEDURE DESCRIBED IN SUPPLY ENVIRONMENTAL PROTECTION RULES, CHAPTER 1, WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES, EFFECTIVE SEPTEMBER 29, 2007, APPENDIX 1-A, DESIGN GUIDELINES, SECTION 1-A-03.
2. CONTRACTOR SHALL NOTIFY ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO TESTING. ENGINEER MUST BE PRESENT AT TEST FOR ACCEPTANCE.
3. AFTER TESTING AND PRIOR TO ACCEPTANCE THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH AS-BUILT DRAWINGS.

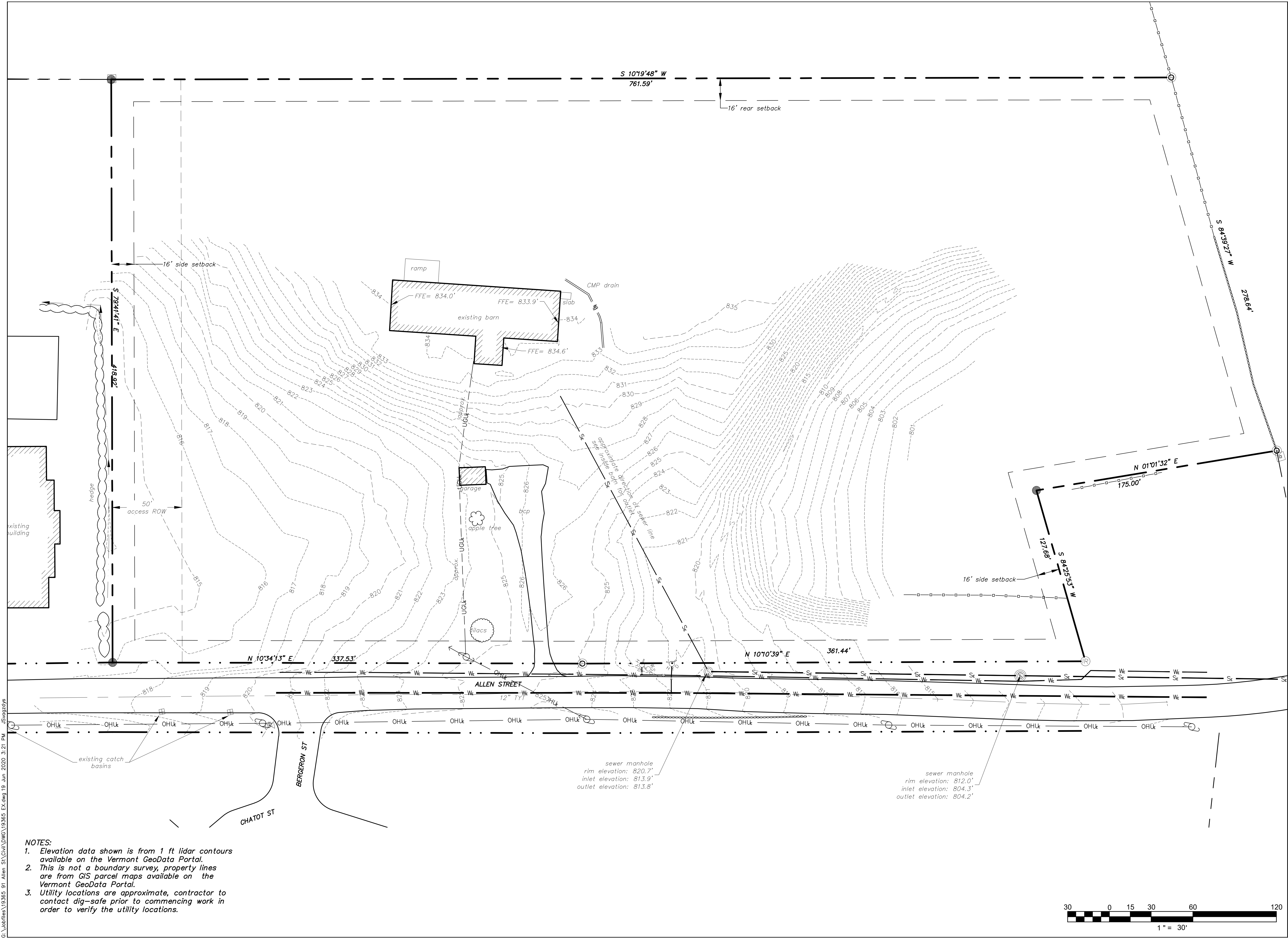
MANHOLE TESTING

- A. ALL MANHOLES SHALL BE TESTED FOR LEAKAGE. LEAKAGE TESTING OF GRAVITY SEWERS UTILIZING THE VACUUM OR HYDROSTATIC TESTING PROCEDURE WHICH TAKE INTO ACCOUNT THE LEAKAGE FROM ONE MANHOLE TO THE TEST SECTION. OTHER MANHOLES SHALL BE TESTED IN ACCORDANCE WITH THE PROCEDURE.
- FOR THE VACUUM TEST ALL INFLOW AND OUTFLOW PIPES SHALL BE PLUGGED AND THE MANHOLE SHALL NOT BE BACKFILLED PRIOR TO TESTING. MANHOLES THAT HAVE BEEN BACKFILLED SHALL BE EXCAVATED TO EXPOSE THE ENTIRE EXTERIOR OR THE MANHOLE SHALL BE HYDROSTATICALLY TESTED. A INFLATABLE BAG MUST BE USED TO PLUG THE MANHOLE. THE BAG SHALL BE PLUGGED TO THE MANHOLE TO PROVIDE ADEQUATE TO PREVENT LEAKAGE OF AIR. AIR SHALL THEN BE PUMPED OUT OF THE MANHOLE TO CREATE A VACUUM EQUAL TO 10 INCHES OF MERCURY. ONCE COMPLETE THE TEST WILL BEGIN AND THE PRESSURE MUST NOT DROP BELOW 9 INCHES OF MERCURY DURING THE 2 MINUTE TEST TIME.
- C. FOR THE HYDROSTATIC TEST ALL INFLOW AND OUTFLOW PIPES SHALL BE PLUGGED AND THE MANHOLE FILLED WITH WATER TO THE TOP OF THE CONE SECTION. A STABILIZATION PERIOD OF ONE HOUR SHALL BE REQUIRED. THE ALLOWED LEAKAGE SHALL BE 1 GALLON PER 100 FEET OF THE CONE. AT THE END OF THE TEST PERIOD, THE MANHOLE SHALL BE REFILLED TO THE TOP OF THE CONE. MEASURING THE VOLUME OF WATER ADDDED TO THE MANHOLE SHALL BE 1 GALLON PER 100 FEET FOR A 24 HOUR PERIOD AND THERE SHALL BE NO VISIBLE INFILTRATION.

PIPING TESTING

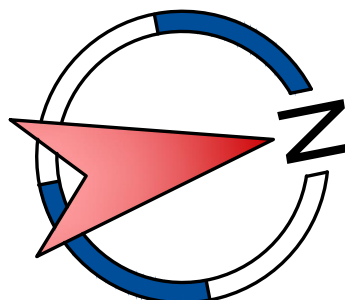
- A. ALL NEWLY LAID SANITARY SEWERS SHALL BE TESTED FOR LEAKAGE. EITHER THE WATER METHOD OR THE AIR METHOD AS SPECIFIED IN THE VERMONT ENVIRONMENTAL PROTECTION RULES IS ACCEPTABLE AT THE OPTION OF THE CONTRACTOR.
- B. THE MAXIMUM LEAKAGE SHALL BE 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE OF PIPE PER DAY FOR THE WATER TEST METHOD. THE WATER TEST SHALL BE CONDUCTED UNDER TWO FEET OF HEAD ABOVE THE HIGHEST POINT TESTED OR ABOVE THE HIGHEST KNOWN WATER TABLE, WHICHEVER IS HIGHER.
- C. AIR TEST METHOD SHALL BE PERFORMED IN ACCORDANCE WITH ASTM STANDARD C828-80. THE MINIMUM ALLOWED TIME FOR A PRESSURE DROP FROM 3.5 PSI TO 2.5 PSI SHALL BE 1.2 MINUTES PER 100 FEET OF 8" DIAMETER PIPE. MINIMUM TEST PRESSURE SHALL BE 3.5 PSI. SEE VERMONT ENVIRONMENTAL PROTECTION RULES, APPENDIX 1, TABLE 1-A-3 FOR OTHER PIPE SIZES.

[illegible]



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- NOTES:
1. Elevation data shown is from 1 ft lidar contours available on the Vermont GeoData Portal.
 2. This is not a boundary survey, property lines are from GIS parcel maps available on the Vermont GeoData Portal.
 3. Utility locations are approximate, contractor to contact dig-safe prior to commencing work in order to verify the utility locations.



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no.	date	revision
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1		
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project name:
**BARRE CITY SCHOOLS
ALTERNATIVE EDUCATION PROGRAM**

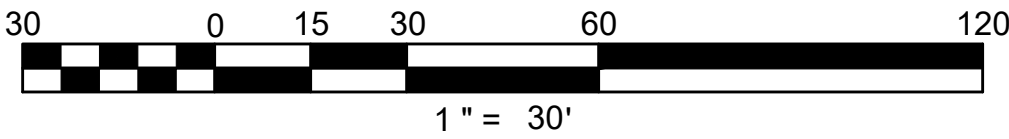
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**91 ALLEN STREET
BARRE, VERMONT**

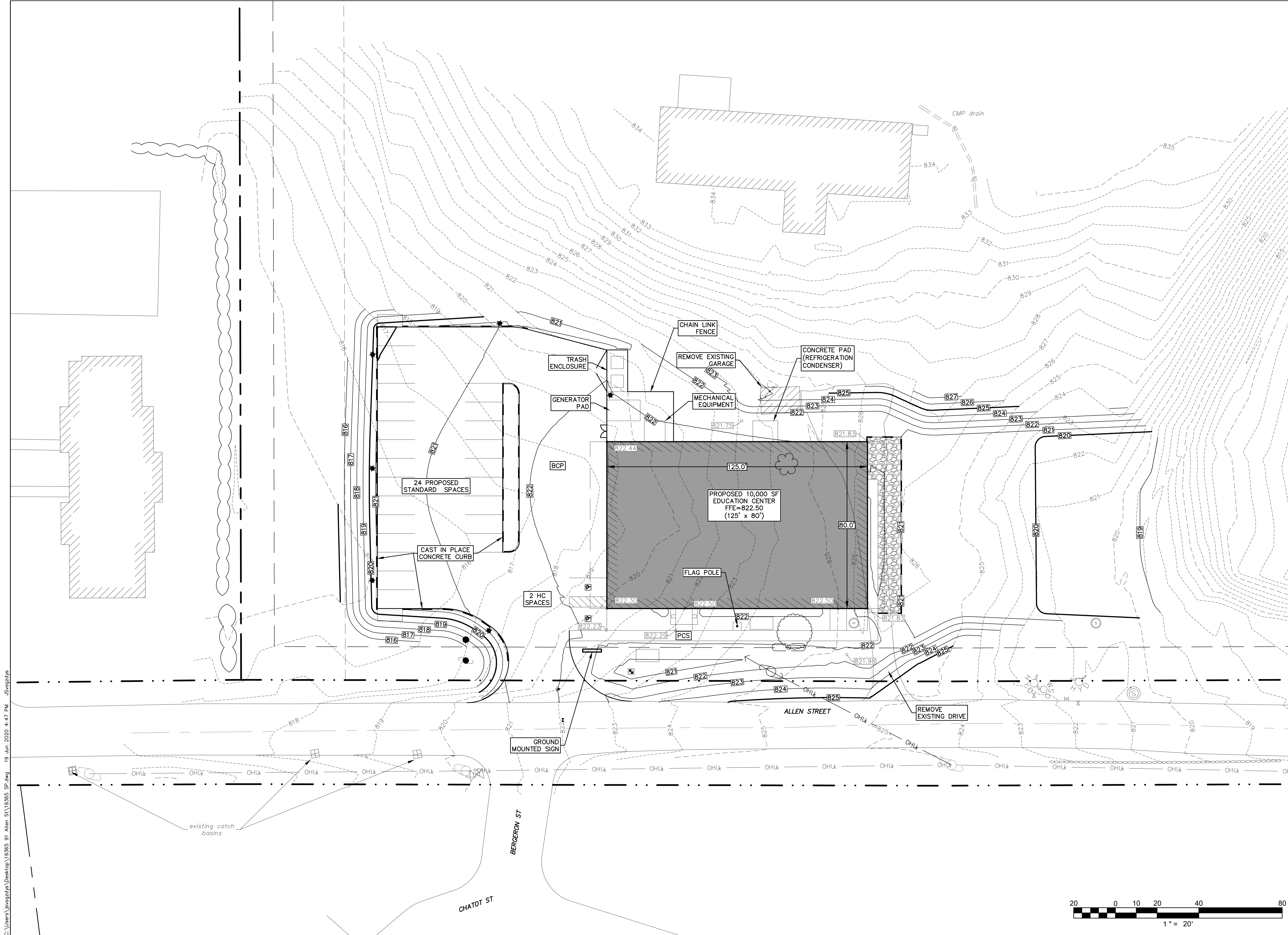
client:
DAVID LAURIN ARCHITECT

project number:	19365
drawn by:	RBC
checked by:	JJS
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released for:	PROGRESS
sheet description:	

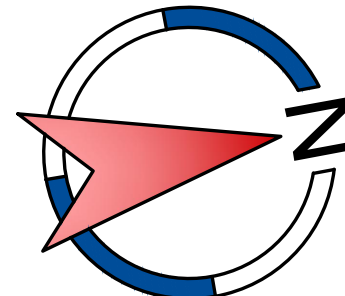
**EXISTING
CONDITIONS PLAN**

C1.01





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no.	date	revision
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1		
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project name:
**SPAULDING EDUCATIONAL
ALTERNATIVES FACILITY**

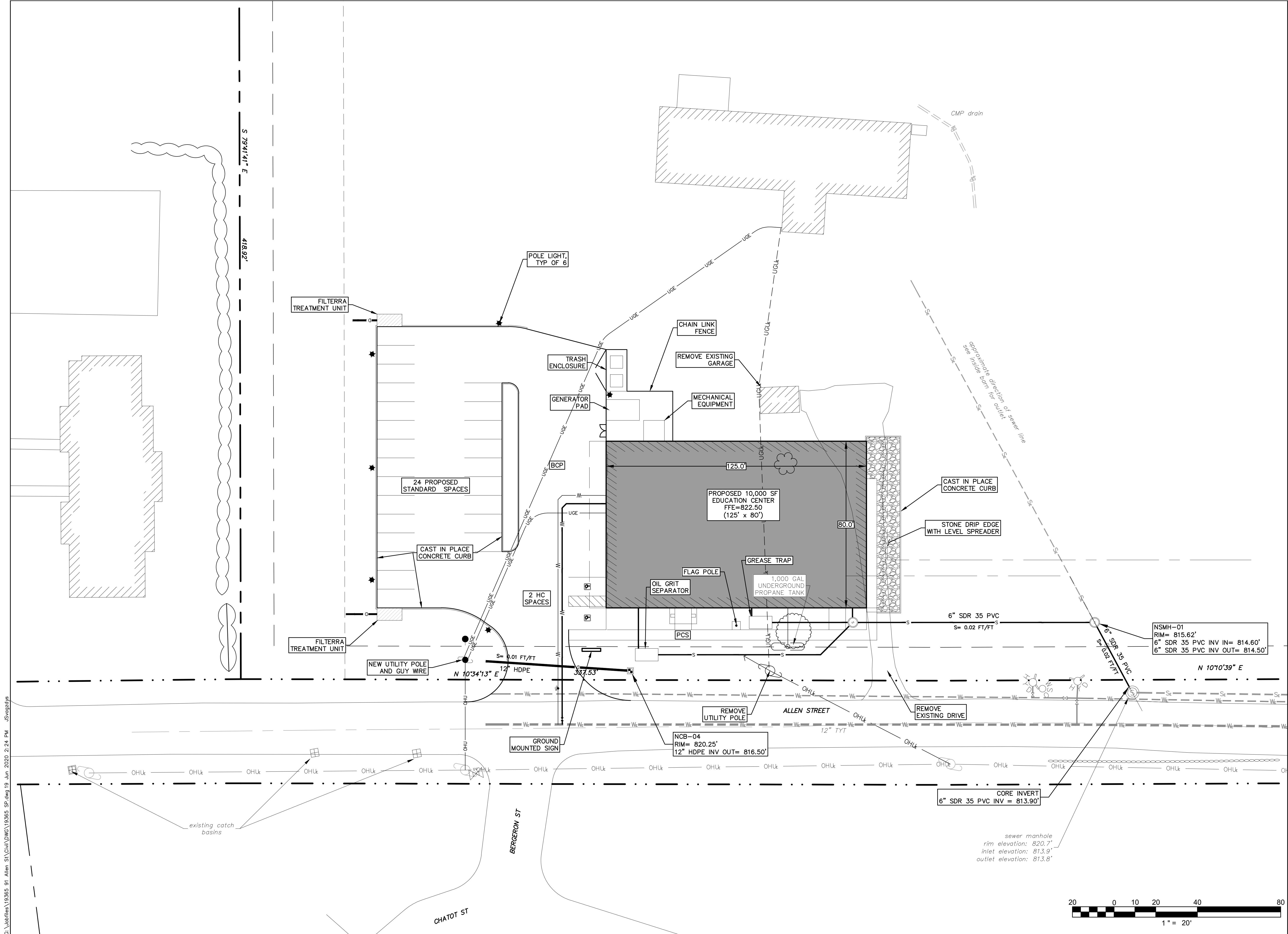
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client:
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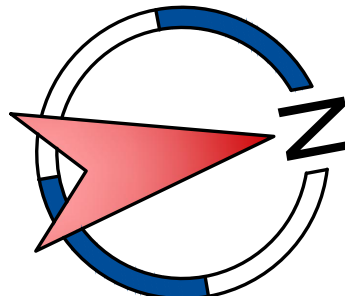
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drawn by: RBC/JJS
checked by: BMLK
scale: 1" = 20'
date: 15 JUNE 2020
released for: PERMITTING
sheet description:

**SITE
PLAN**

C1.02



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no.	date	revision
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project name:
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ALTERNATIVES FACILITY**

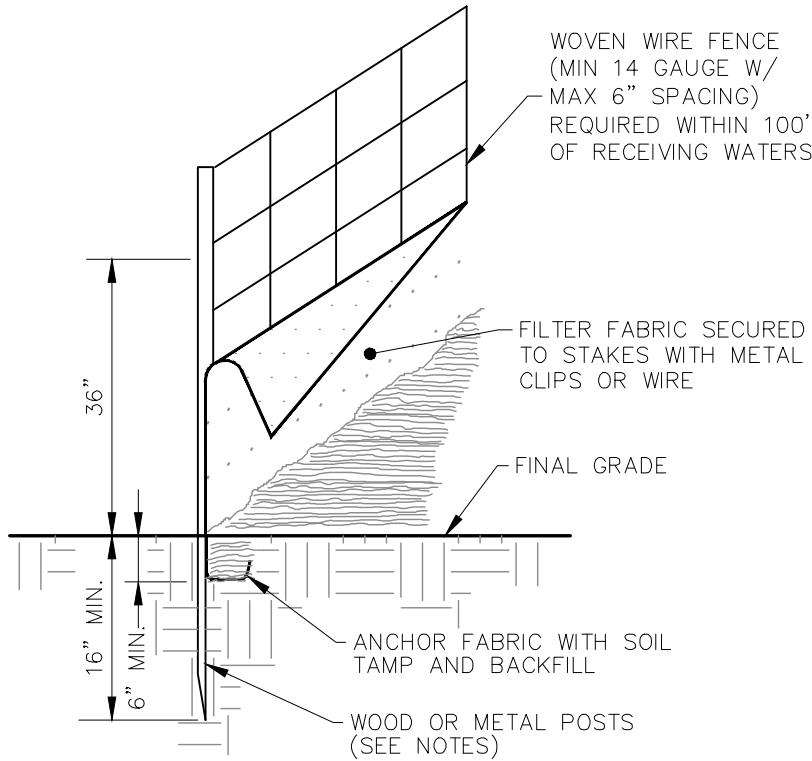
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BARRE, VERMONT**

client:
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project number:	19365
drawn by:	RBC/JJS
checked by:	BMLK
scale:	1" = 20'
date:	8 MAY 2020
released for:	SCHEMATIC REVIEW

sheet description:
**SITE AND UTILITY
PLAN**

C1.02



INSTALLATION NOTES:

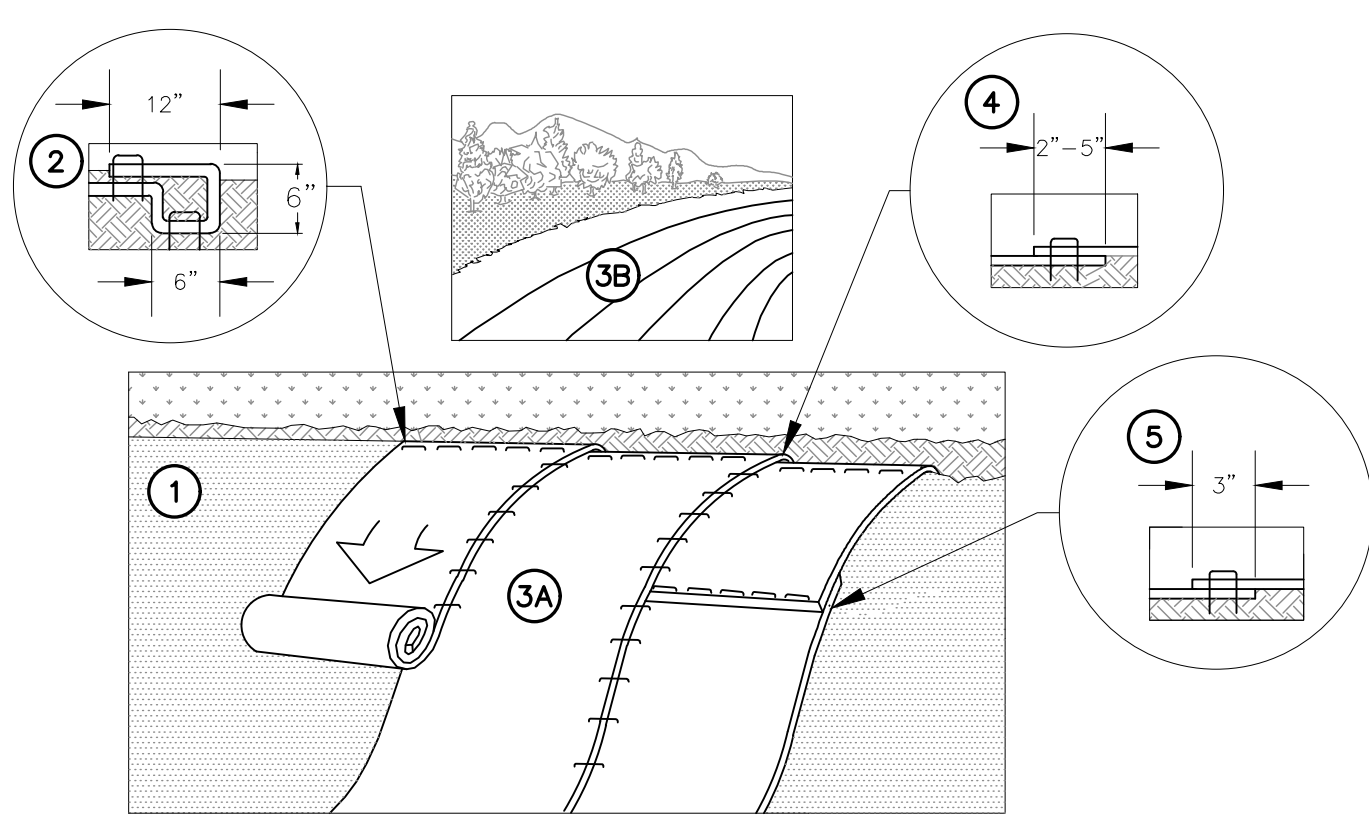
1. DRIVE POSTS A MINIMUM OF 16" INTO THE GROUND.
2. EMBED GEOTEXTILE PLACED IN A 8"x8" TRENCH.
3. POST SPACING SHALL BE AS FOLLOWS:
 - 3.1. FOR WIRE MESH BACKED FENCE, SPACING SHALL NOT EXCEED 10'-0".
 - 3.2. WITHOUT WIRE MESH AND FABRIC ELONGATION IS GREATER THAN OR EQUAL TO 50%, POST SPACING SHALL NOT EXCEED 4'-0".
 - 3.3. WITHOUT WIRE MESH AND FABRIC ELONGATION IS LESS THAN 50%, STAKE SPACING SHALL NOT EXCEED 6'-0".
4. MAINTAIN A 10'-0" BORDER BETWEEN THE SILT FENCE AND CONSTRUCTION ACTIVITY.
5. INSTALL SILT FENCE PARALLEL TO CONTOUR LINES, I.E. THE GROUND ELEVATION AT THE BASE OF THE FENCE SHALL BE AT CONSTANT ELEVATION OR LEVEL.
6. USE A CONTINUOUS SHEET OF GEOTEXTILE TO PREVENT FAILURE AT JOINTS.
7. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. WIRE FENCE REINFORCEMENT REQUIRED WITHIN 100 FT UPSLOPE OF RECEIVING WATERS.
8. GEOTEXTILE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH WIRE TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
9. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED TOGETHER.
10. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.

MAINTENANCE NOTE:

1. CHECK AFTER EVERY RAINFALL EVENT AND WEEKLY.
2. REMOVE SEDIMENT WHEN IT REACHES 1/2 OF FENCE HEIGHT.
3. PATCH TORN FENCES, OR REPLACE THE ENTIRE FENCE SECTION WHEN TEARS OCCUR.
4. IF WATER IS BREAKING THROUGH SILT FENCE THEN IT MUST BE REINFORCED W/STONE.

SILT FENCE

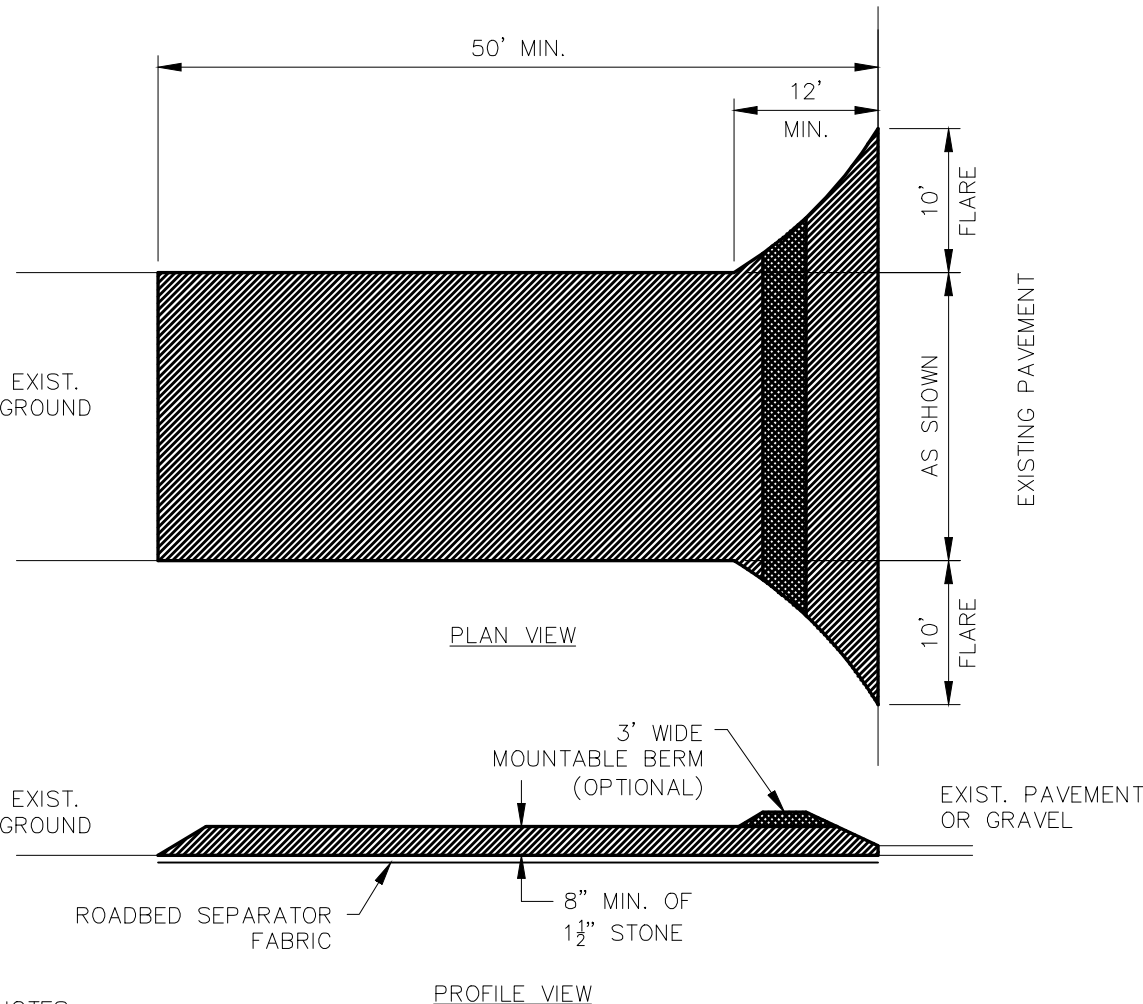
NOT TO SCALE



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECIP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECIP's IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECIP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECIP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECIP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECIP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECIP's.
3. ROLL THE RECIP's (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECIP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECIP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECIP's MUST BE STAPLED WITH APPROXIMATELY 2" TO 5" OVERLAP DEPENDING ON RECIP's TYPE.
5. CONSECUTIVE RECIP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECIP's WIDTH. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECIP's.

SLOPE INSTALLATION ROLLED EROSION CONTROL MATTING

NOT TO SCALE

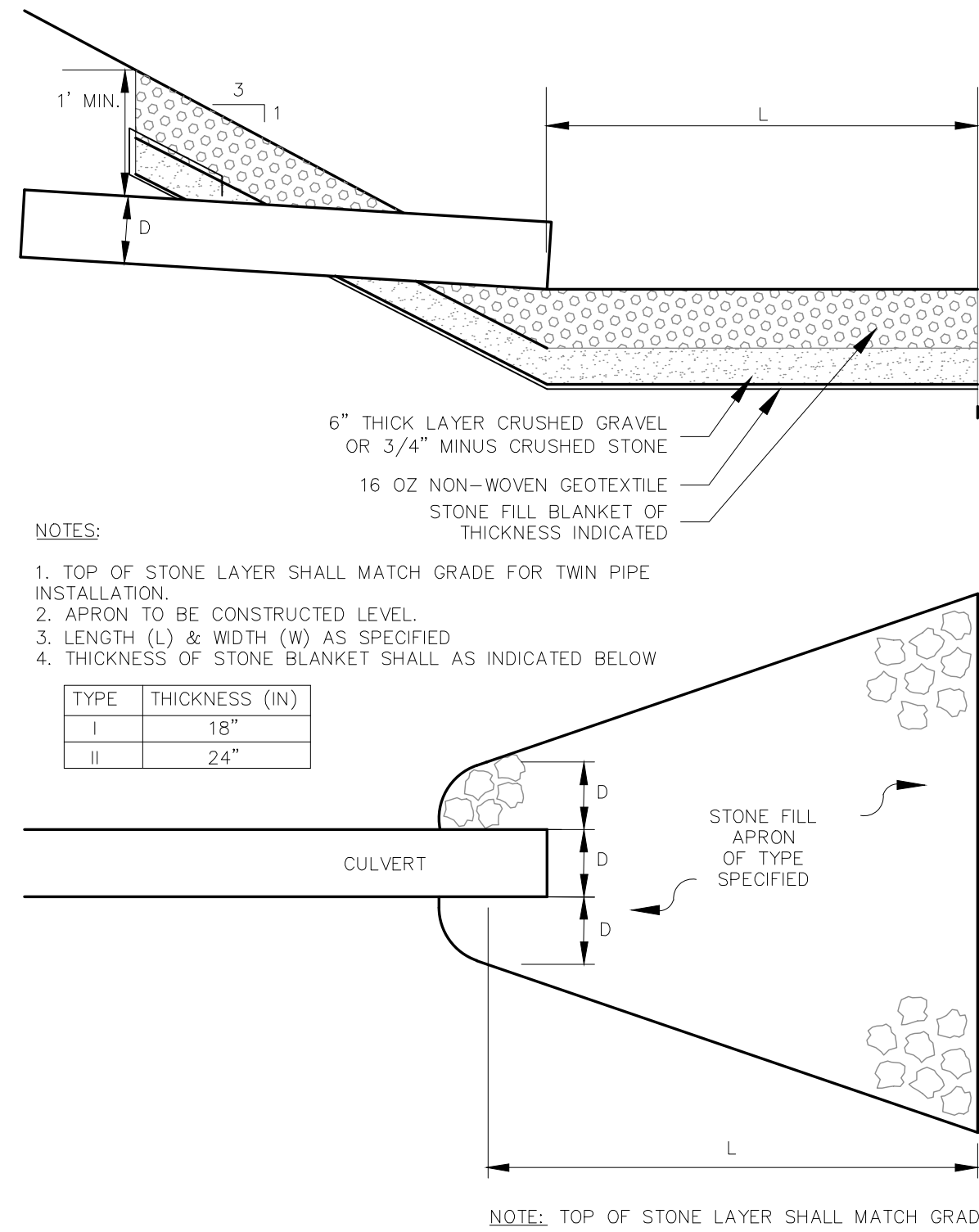


NOTES:

1. THE PURPOSE IS TO REMOVE MUD FROM TIRES OF CONSTRUCTION VEHICLES.
2. WHEN STONE BECOMES CLOGGED AND INEFFECTIVE, TOPDRESS WITH 3" OF NEW STONE OR REPLACE ENTIRE PAD.
3. IF TIRE WASHING IS REQUIRED, WASH WATER SHALL DRAIN INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
4. STONE SIZE- USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
5. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
6. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY USING CLOSED-BROOM EQUIPMENT.
7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



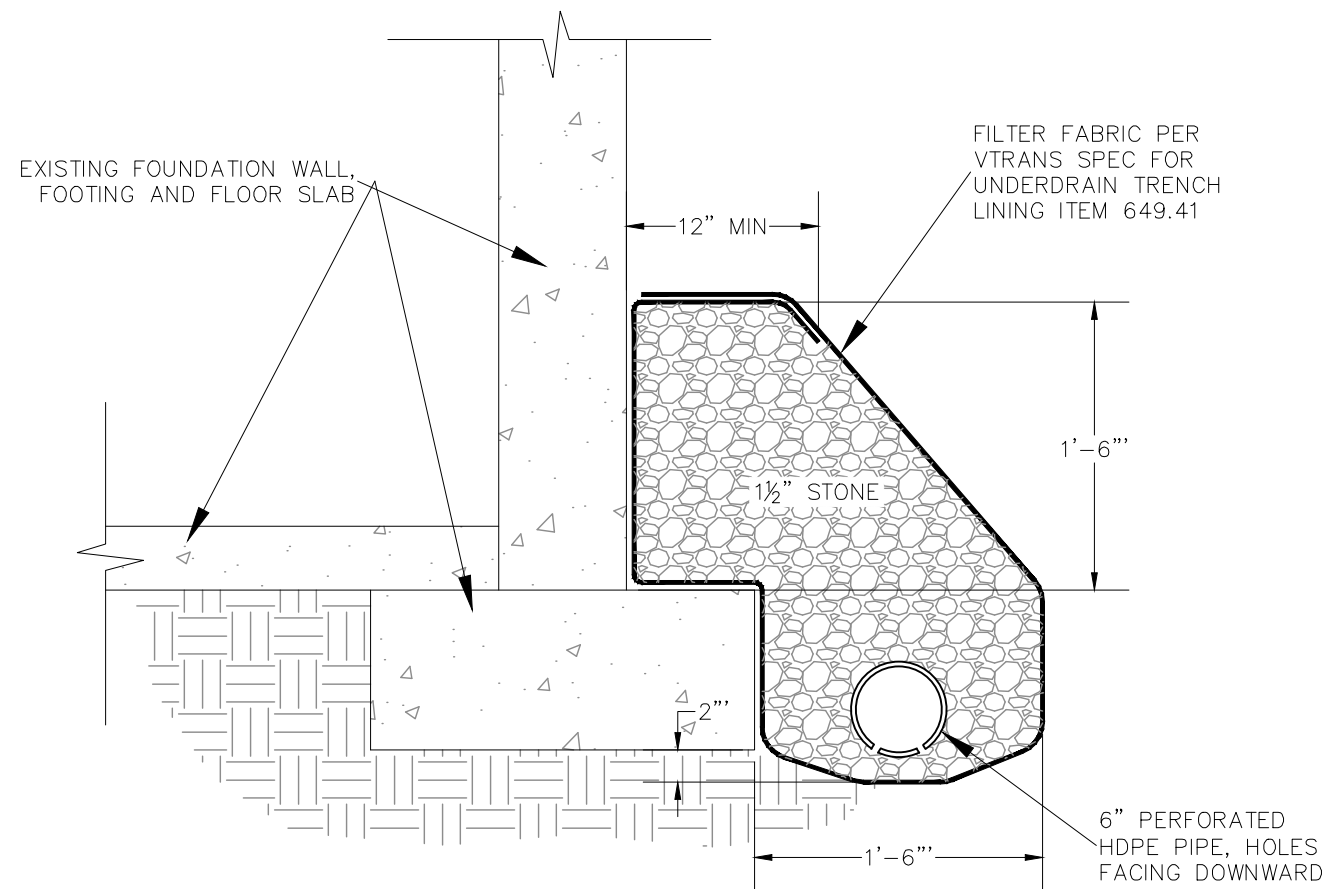
NOTES:

1. TOP OF STONE LAYER SHALL MATCH GRADE FOR TWIN PIPE INSTALLATION.
2. APRON TO BE CONSTRUCTED LEVEL.
3. LENGTH (L) & WIDTH (W) AS SPECIFIED.
4. THICKNESS OF STONE BLANKET SHALL AS INDICATED BELOW

TYPE	THICKNESS (IN)
I	18"
II	24"

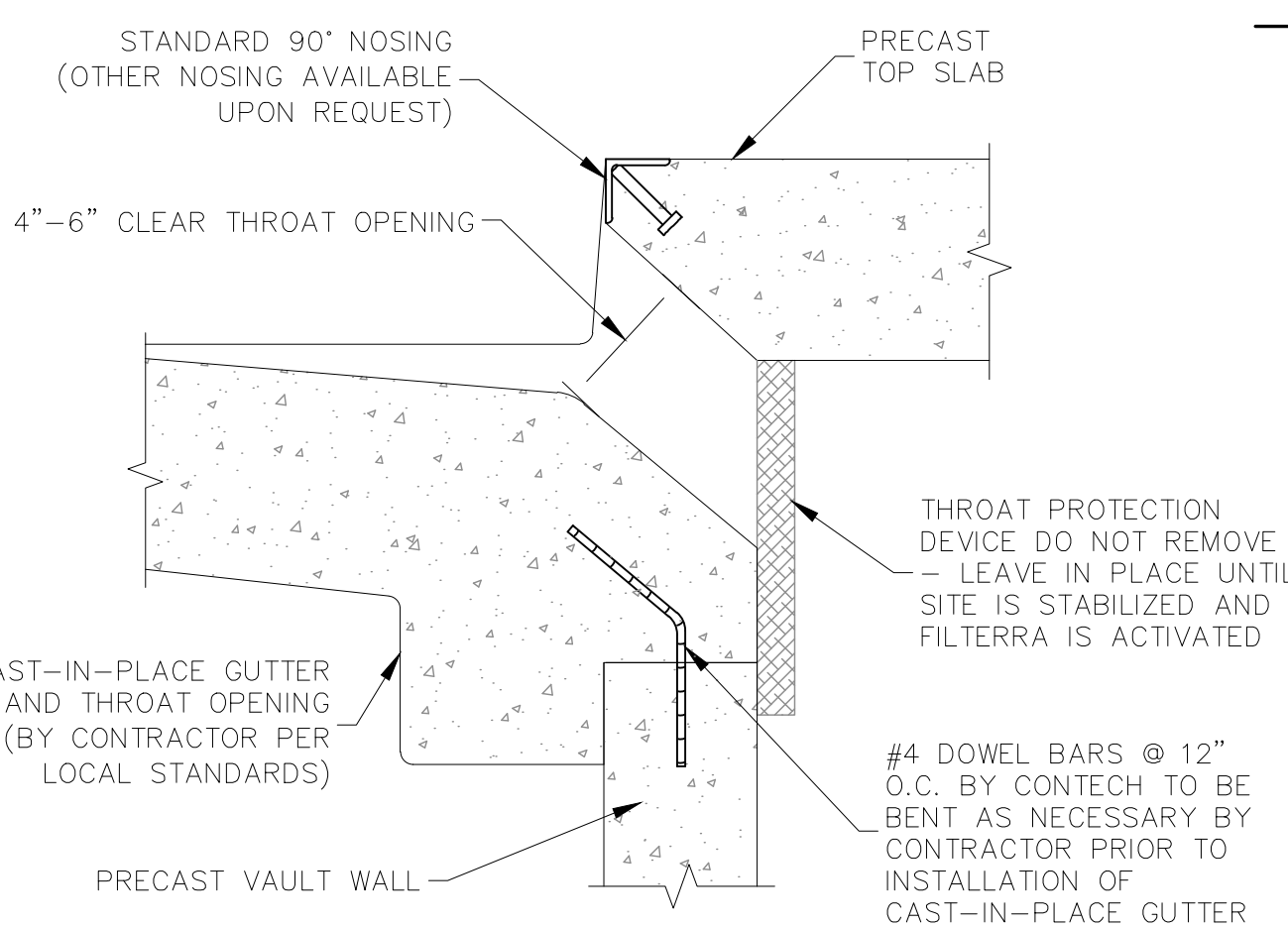
STONE OUTLET APRON

NOT TO SCALE



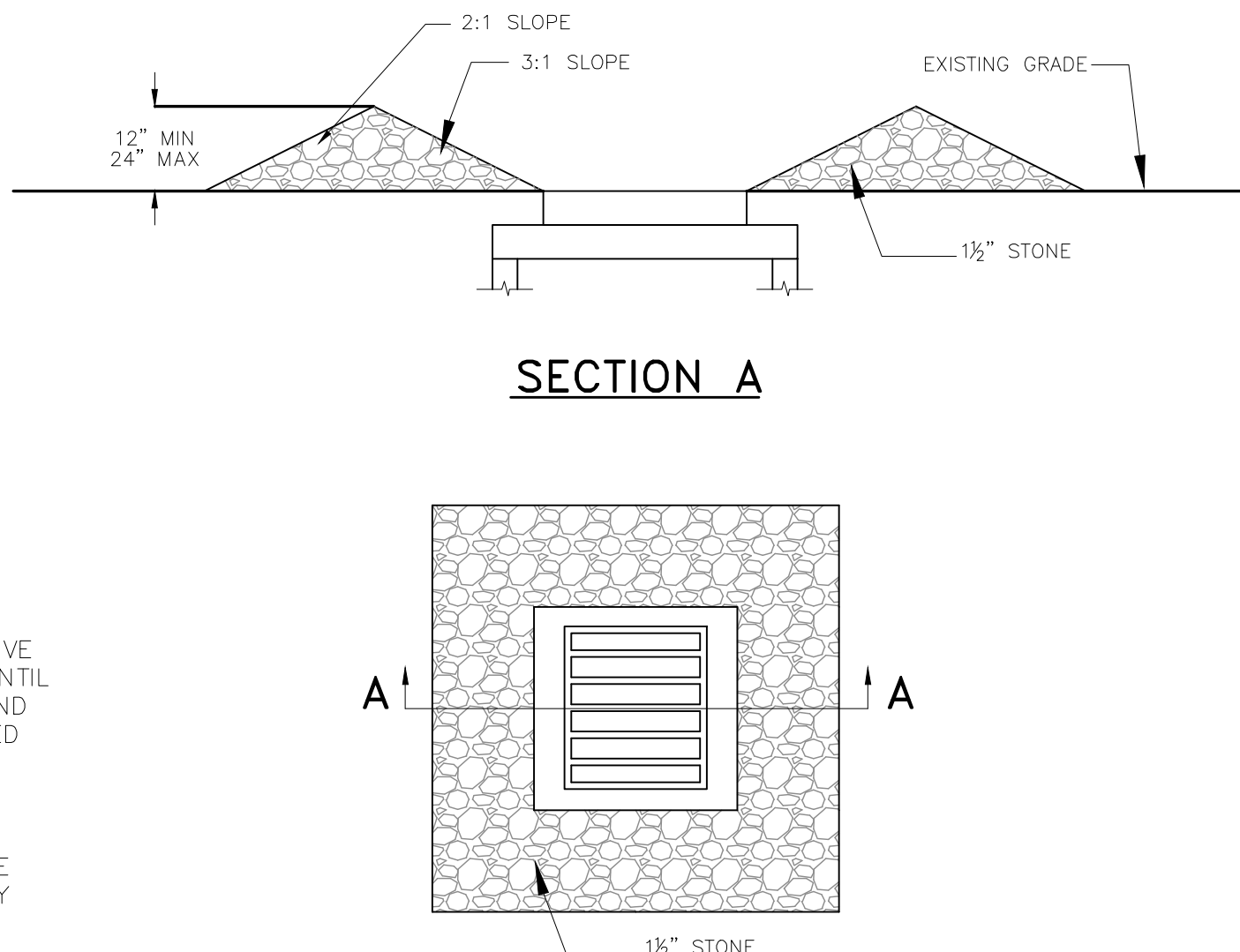
FOOTING DRAIN DETAIL

NOT TO SCALE



FILTERRA THROAT OPENING

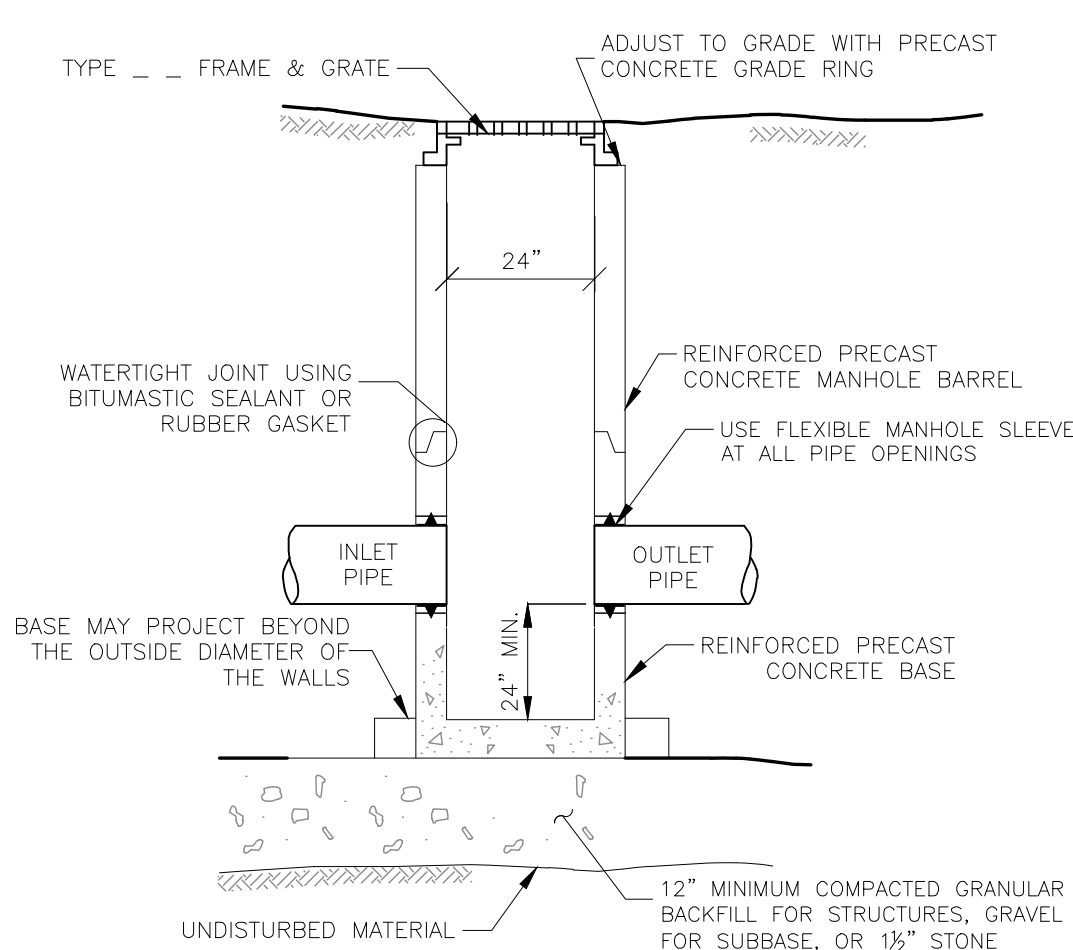
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SECTION A

STONE INLET PROTECTION

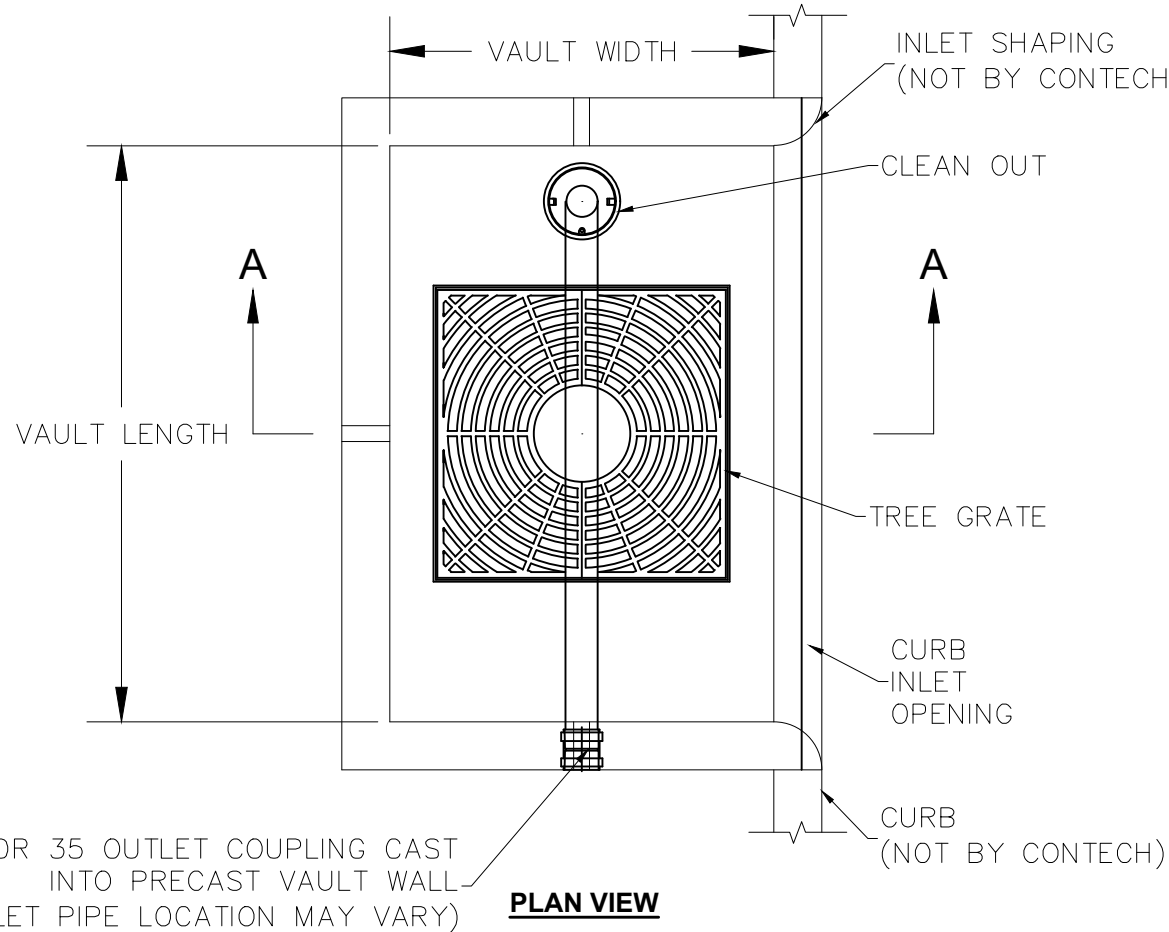
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NOTES:

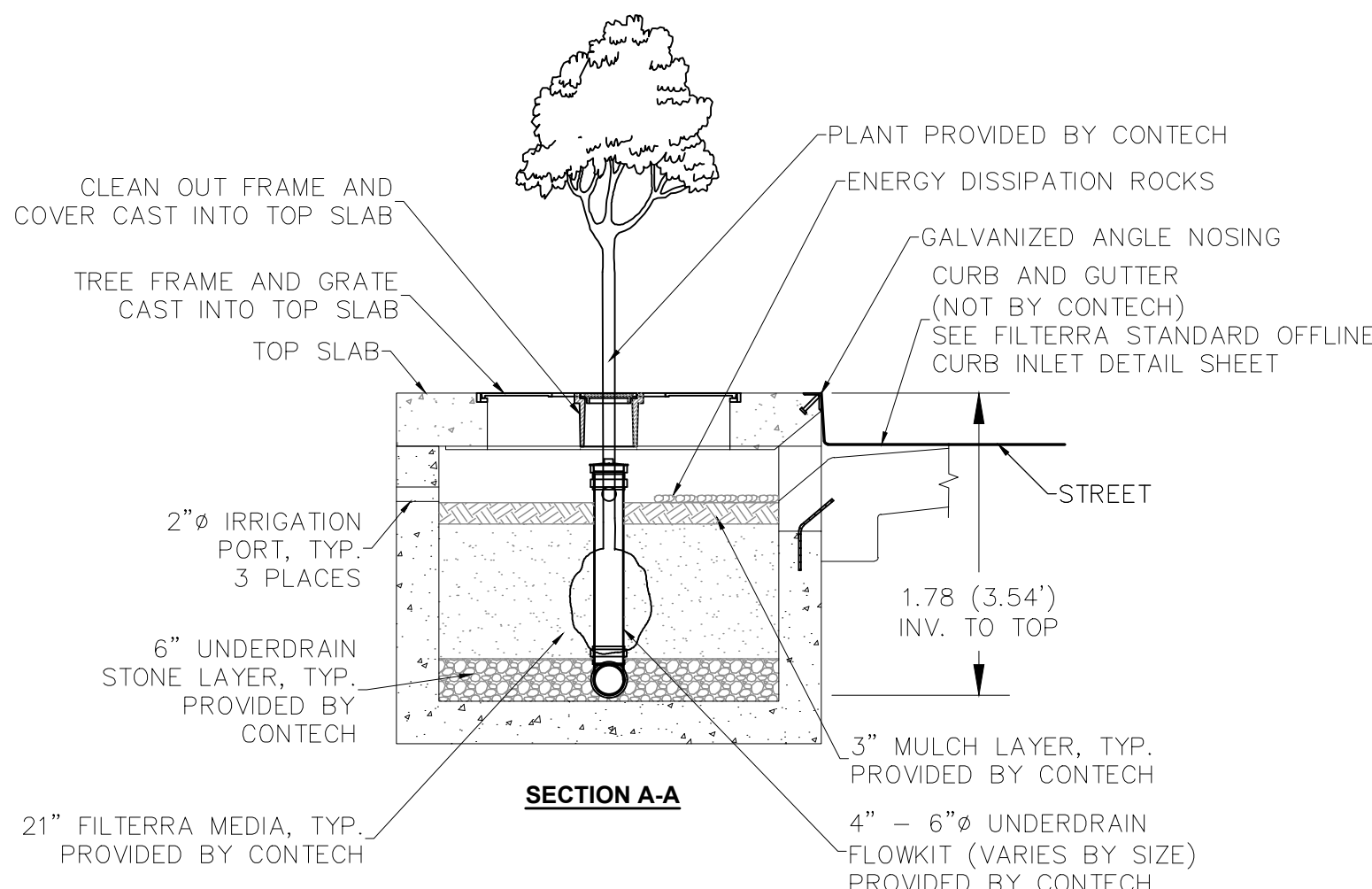
1. ALL MANHOLES SHALL BE DESIGNED FOR H-20 WHEEL LOADS.

24" SQUARE CATCH BASIN DETAIL



DRIP EDGE WITH SIDEWALK AND CONCRETE CURB LEVEL SPREADER

NOT TO SCALE



FILTERRA OFFLINE

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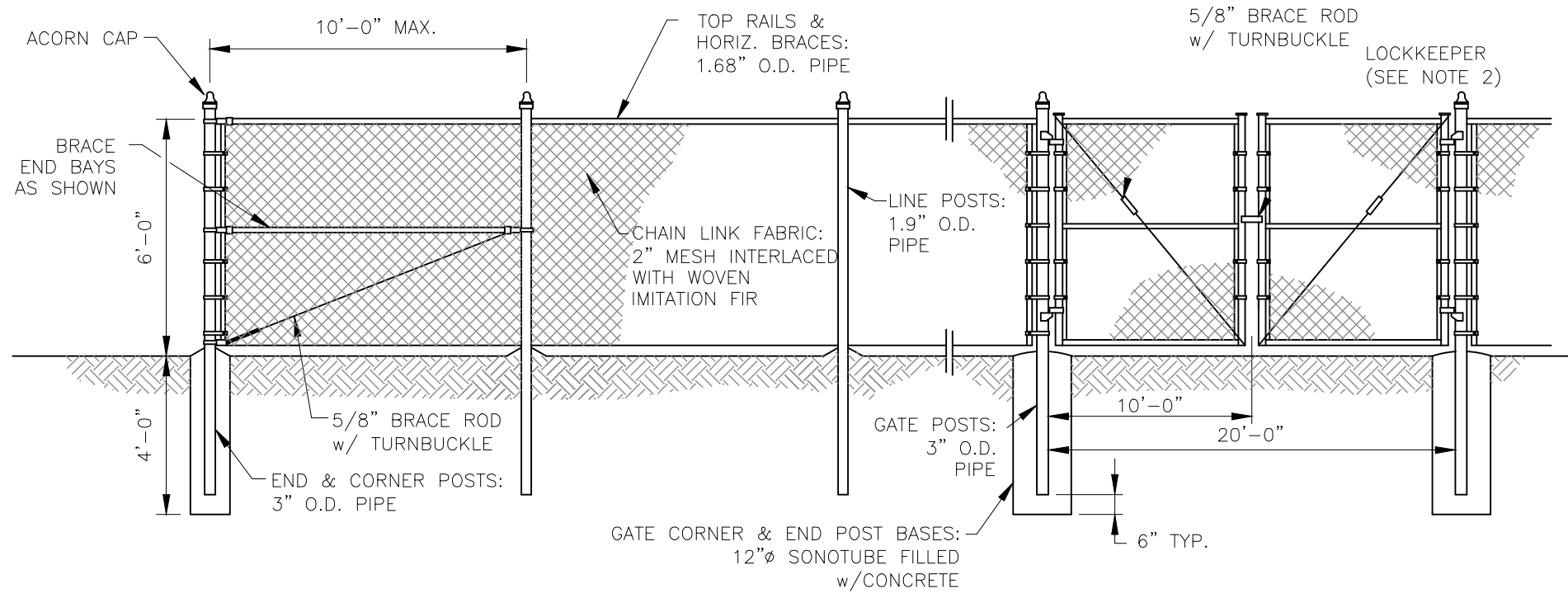
project location:
91 ALLEN STREET
BARRE, VERMONT

client:
DAVID LAURIN ARCHITECT

project number: 19365
drawn by: RBC
checked by: BMLK
scale: AS NOTED
date: 10 JUN 2020
released for: REVIEW

CONSTRUCTION DETAILS

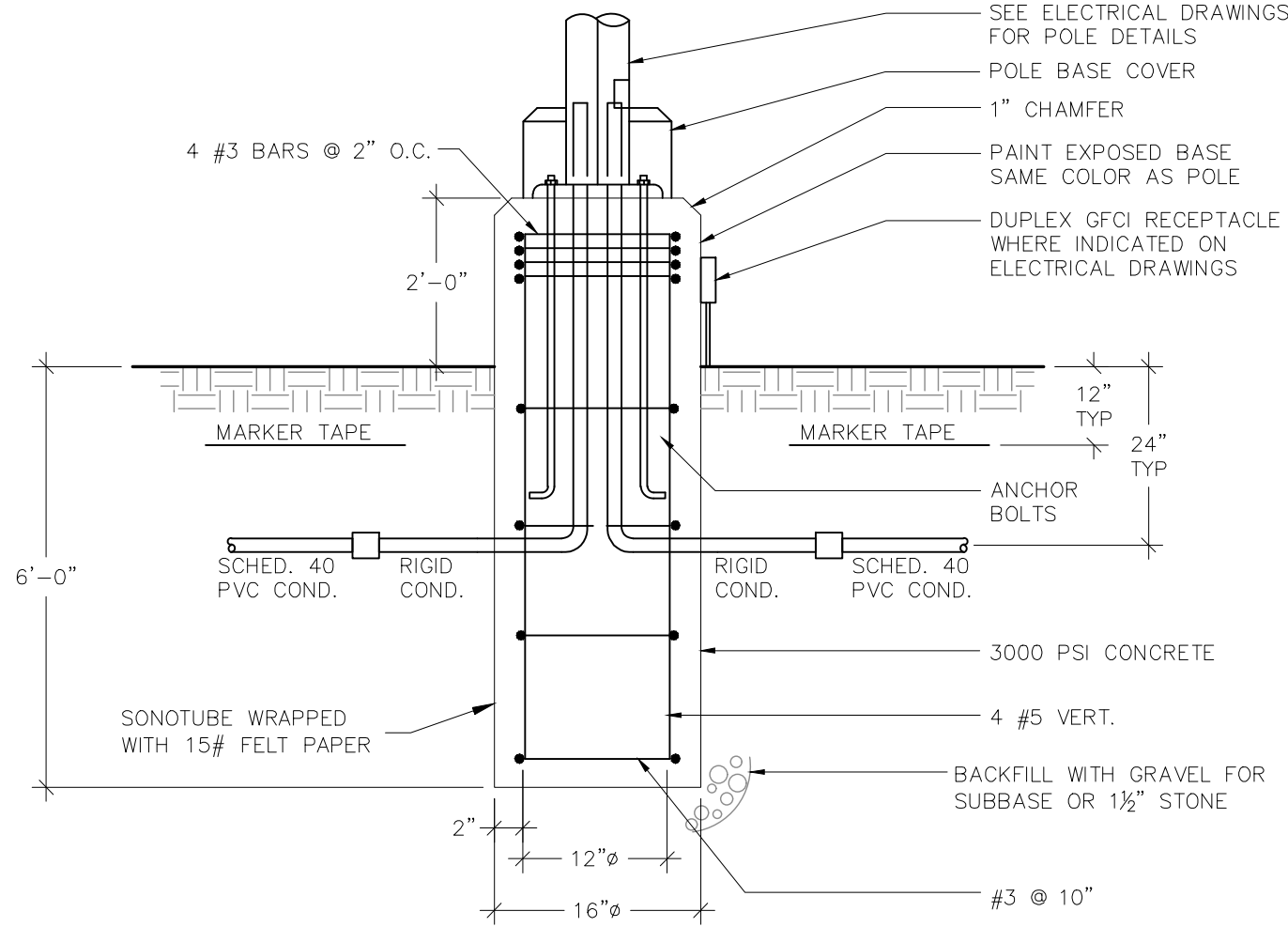
C5.01



- NOTES:
1. ALL CHAIN LINK FENCING SUPPLIED SHALL CONFORM TO THE CHAIN LINK FENCE MANUFACTURERS INSTITUTE(CLFMI) PRODUCT MANUAL, INDUSTRIAL STEEL GUIDE FOR FENCE RAILS, POSTS, GATES, AND ACCESSORIES, INCLUDING TABLE II.
 2. HEAVY-DUTY DOUBLE DRIVE INDUSTRIAL LATCH "FENCE-LOC" MODEL F1-100 AS MANUFACTURED BY CARGO PROTECTORS, INC. OR EQUIVALENT.
 3. INSTALL GATE KEEPERS (AUTO. ENGAGING, MANUAL RELEASE FOR BOTH LEAFS).
 4. ALL PIPE TO BE SCHEDULE 40 STEEL.
 5. ALL PIPE, MESH, RODS, HARDWARE AND ACCESSORIES TO BE HOT-DIPPED GALVANIZED.
 6. CONCRETE TO BE VAOT CLASS "B".
 7. CHAINLINK FABRIC TO BE INTERLACED WITH DURABLE WOVEN IMITATION FIR (COLOR GREEN) TO PROVIDE UNIFORM PRIVACY SCREENING.

DUMPSTER AND UTILITY FENCE ENCLOSURE & GATE DETAIL

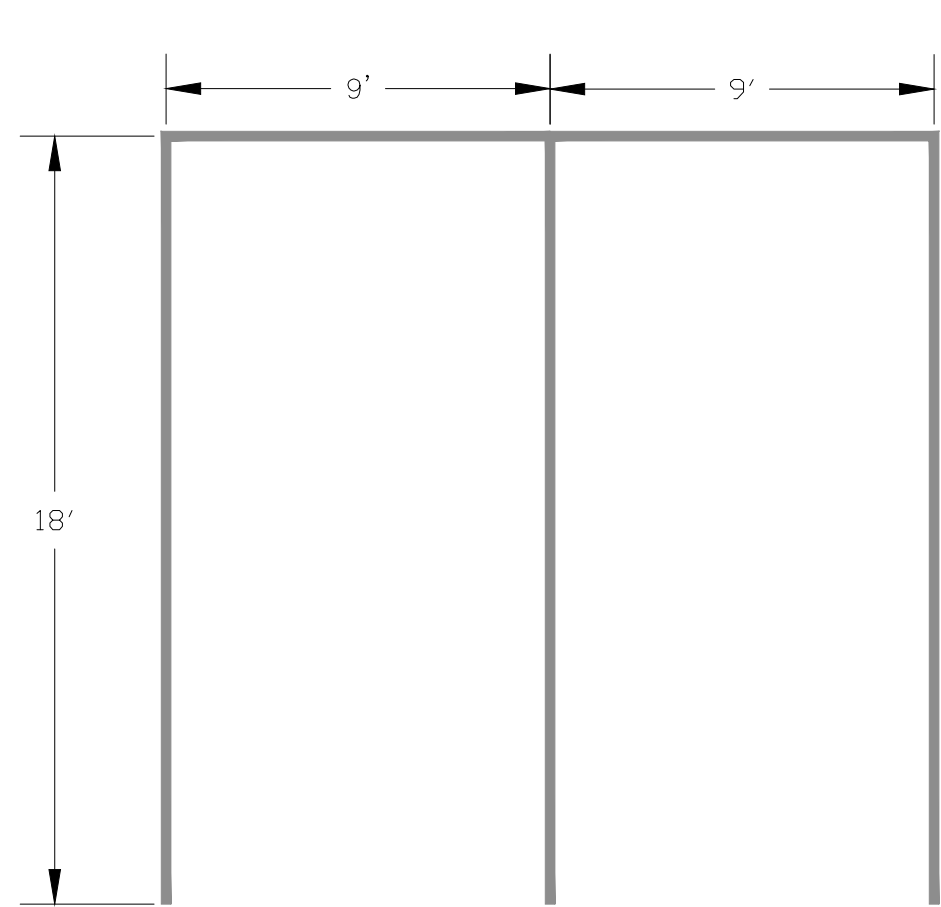
NOT TO SCALE



NOTE:
DIMENSIONS ARE BASED ON A TYPICAL STEEL POLE. VERIFY MANUFACTURER'S DIMENSIONS PRIOR TO FABRICATING BASES.

TYPICAL POLE BASE DETAIL

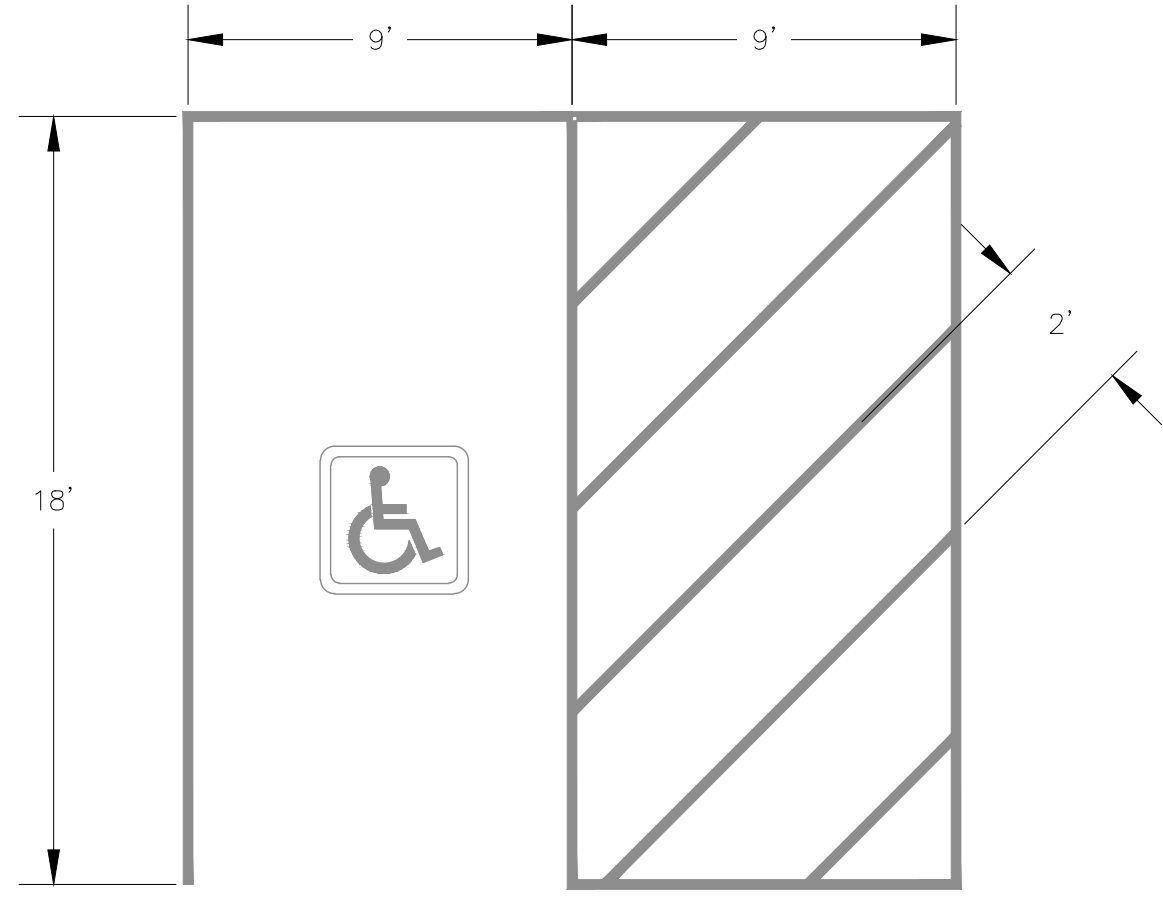
NOT TO SCALE



NOTE:
1. PAINT USED SHALL MEET THE REQUIREMENTS OF VTRANS ITEM 708.10(a) OF THE 2018 STANDARD SPECIFICATIONS OF CONSTRUCTION MATERIALS.

PAVEMENT MARKINGS FOR STANDARD PARKING AREAS

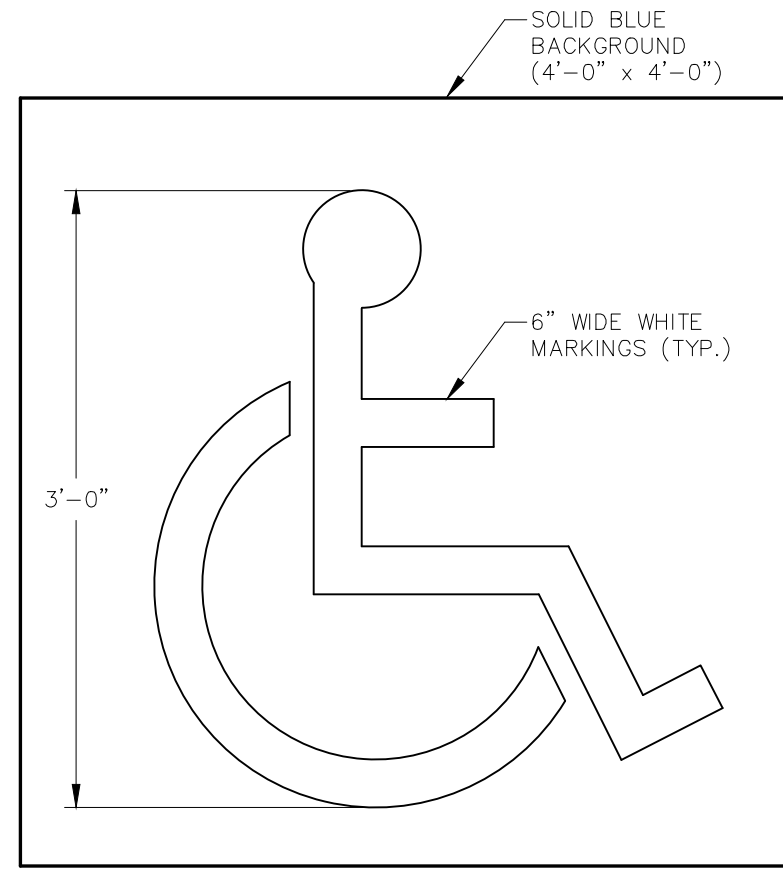
NOT TO SCALE



NOTE:
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PAVEMENT MARKINGS FOR ADA COMPLIANT PARKING AREAS

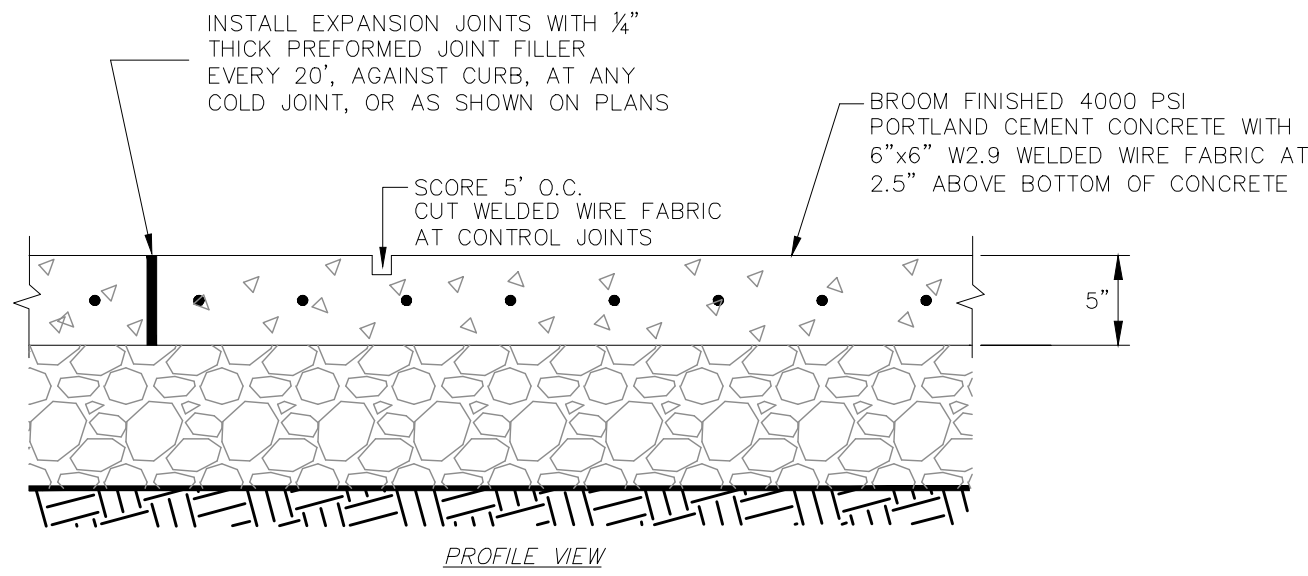
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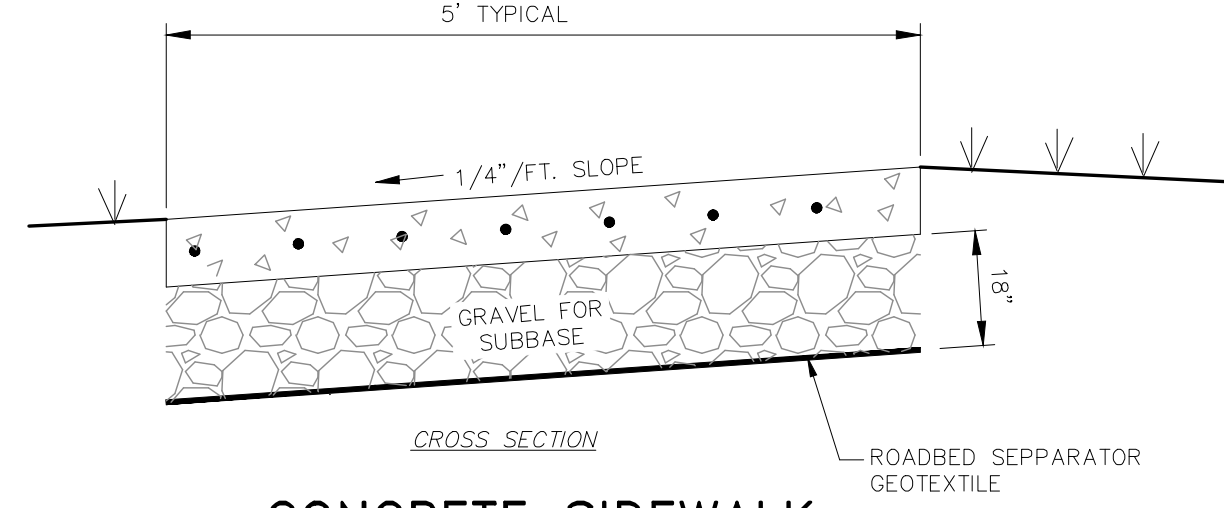
NOTE:
SYMBOL TO CONFORM WITH FIGURE 3B.22 OF THE MUTCD (DEC. 2009), EXCEPT AS OTHERWISE INDICATED. ALSO, REFER TO THE PAVEMENT MARKING NOTES ON THE SITE LAYOUT PLAN(S).

HANDICAP SYMBOL PAVEMENT MARKING

NOT TO SCALE



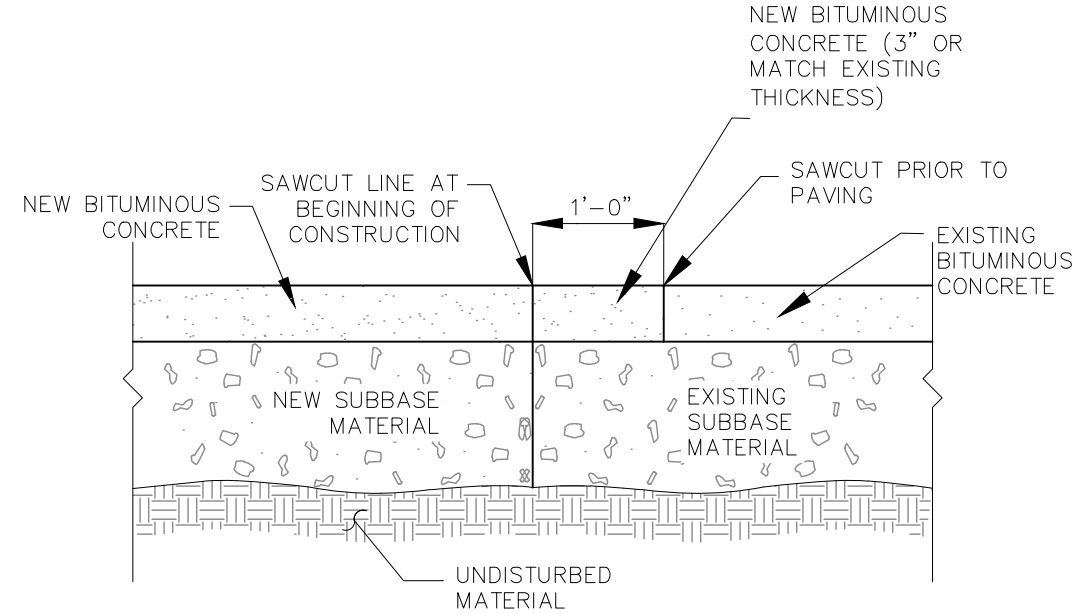
PROFILE VIEW



CROSS SECTION

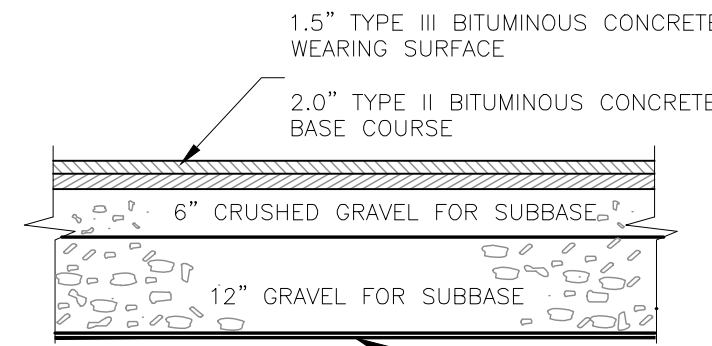
CONCRETE SIDEWALK

NOT TO SCALE



PAVEMENT JOINT DETAIL

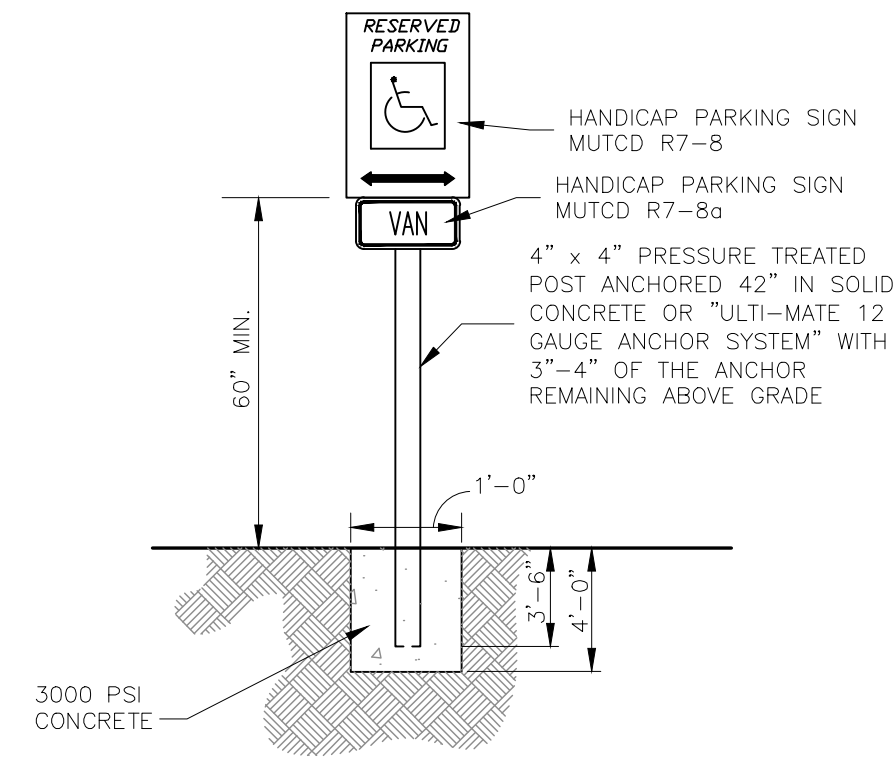
NOT TO SCALE



NOTE:
1. FINE DENSE GRADED CRUSHED STONE MAY BE SUBSTITUTED FOR BOTH GRAVEL FOR SUBBASE AND CRUSHED GRAVEL FOR SUBBASE.

TYPICAL COMMERCIAL PAVED PARKING LOT SECTION

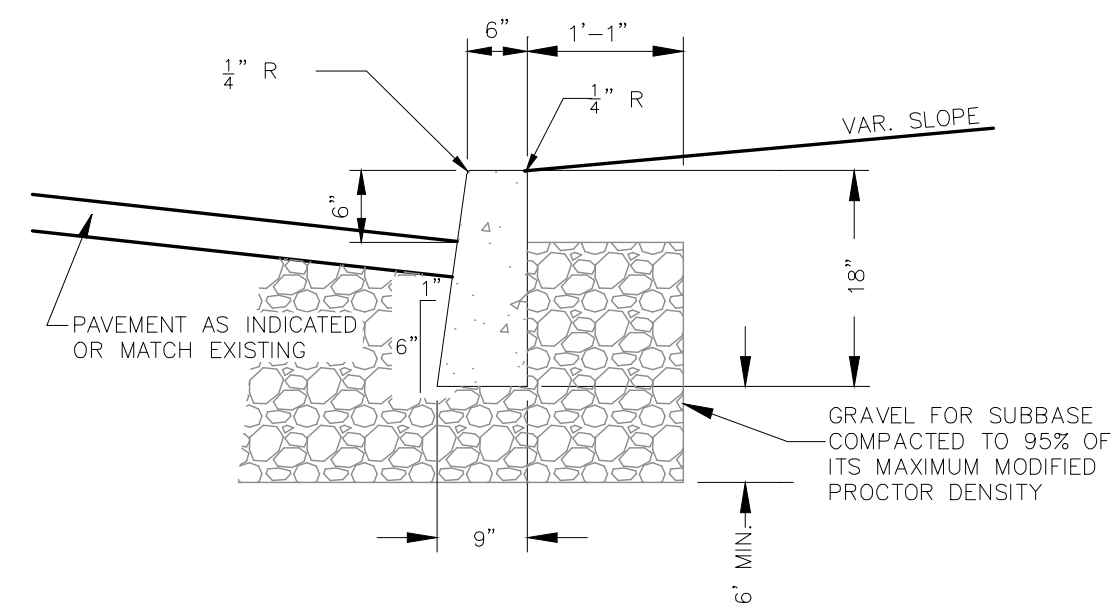
NOT TO SCALE



NOTE:
ONE VAN PARKING SPACE PER 6 ACCESSIBLE SPACES, OR FRACTION THEREOF (DENOTED WITH MUTCD R7-8a SIGN)

UNIVERSAL ACCESS PARKING SIGN

NOT TO SCALE

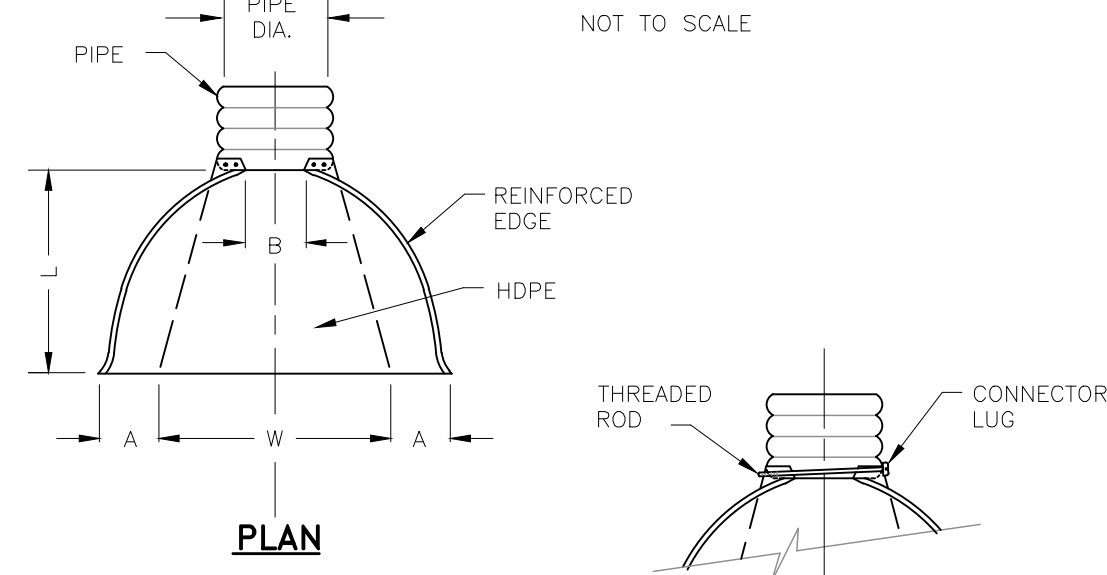


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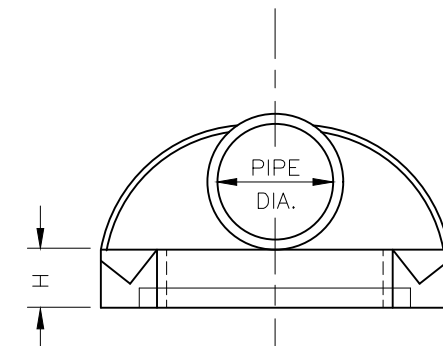
1. WHEN CONCRETE CURB IS CONSTRUCTED ADJACENT TO CONCRETE SIDEWALK, ASPHALT TREATED FELT SHALL BE PLACED BETWEEN THE SIDEWALK AND CURB.
2. REVEAL NOT TO EXCEED 4" WHERE DESIGN SPEED IS > 40 MPH OR WHERE CURB IS INSTALLED ADJACENT TO GUARDRAIL.
3. SEE VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION DETAILS ON EXPANSION, CONSTRUCTION JOINTS, AND LENGTHS OF SECTIONS.

CAST IN PLACE CONCRETE CURB VAOT TYPE B

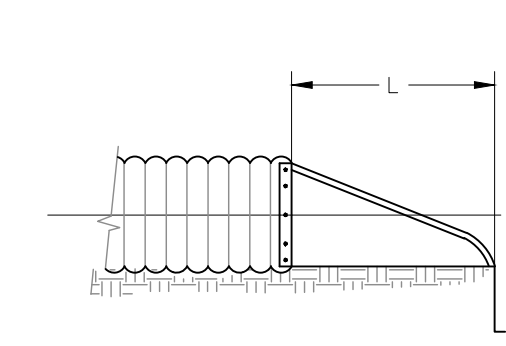
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PLAN



ELEVATION

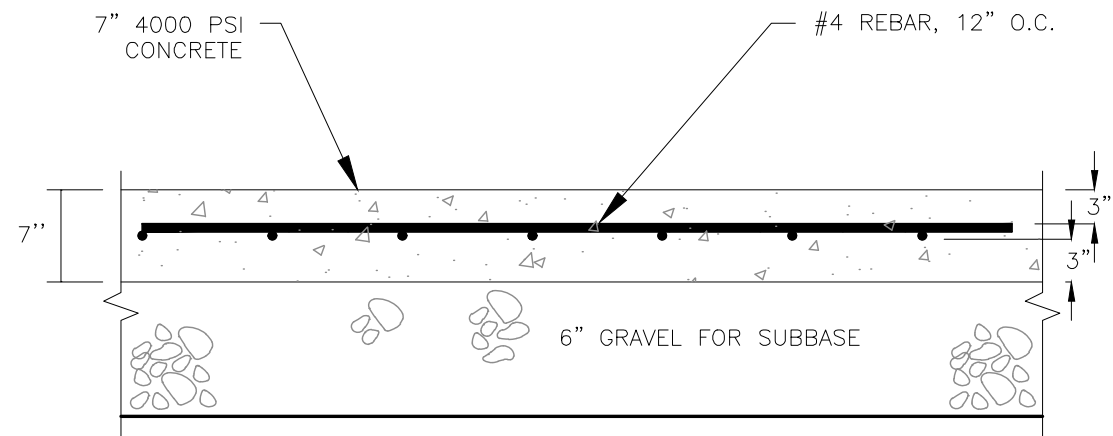


TYPICAL CROSS-SECTION

PIPE DIA.	DIMENSIONS				
	A	B	H	L	W
12"	1" TOL.	MAX.	1" TOL.	1 1/2" TOL.	2" TOL.
12"	6.5"	10"	6.5"	25"	29"
15"	6.5"	10"	6.5"	25"	29"
18"	7.5"	15"	6.5"	32"	35"
24"	7.5"	18"	6.5"	36"	45"
30"	10.5"	N/A	7.0"	53"	68"

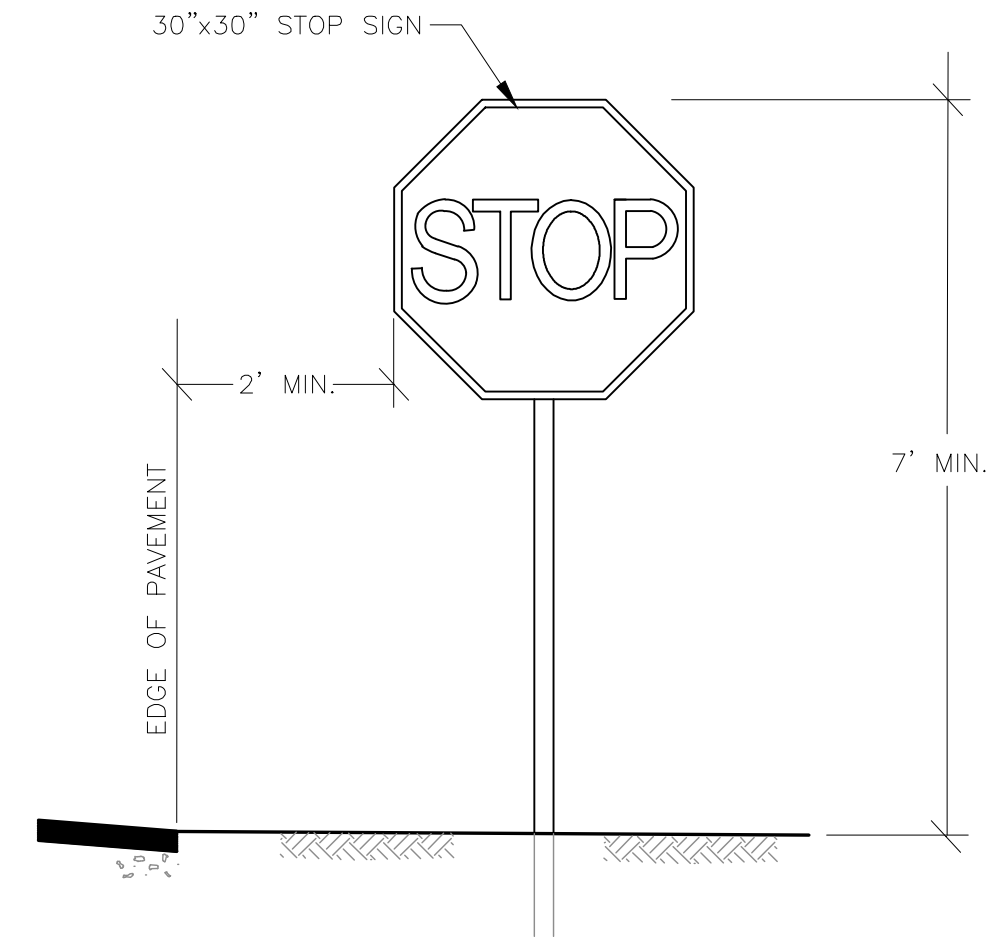
HDPE END SECTION

NOT TO SCALE



TYPICAL CONCRETE DUMPSTER PAD

NOT TO SCALE



STOP SIGN SHALL BE IN ACCORDANCE WITH THE MUTCD R1-1 SIGN.

STOP SIGN W/O CURB

NOT TO SCALE

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no. date revision

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project name:
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project location:
**91 ALLEN STREET
BARRE, VERMONT**

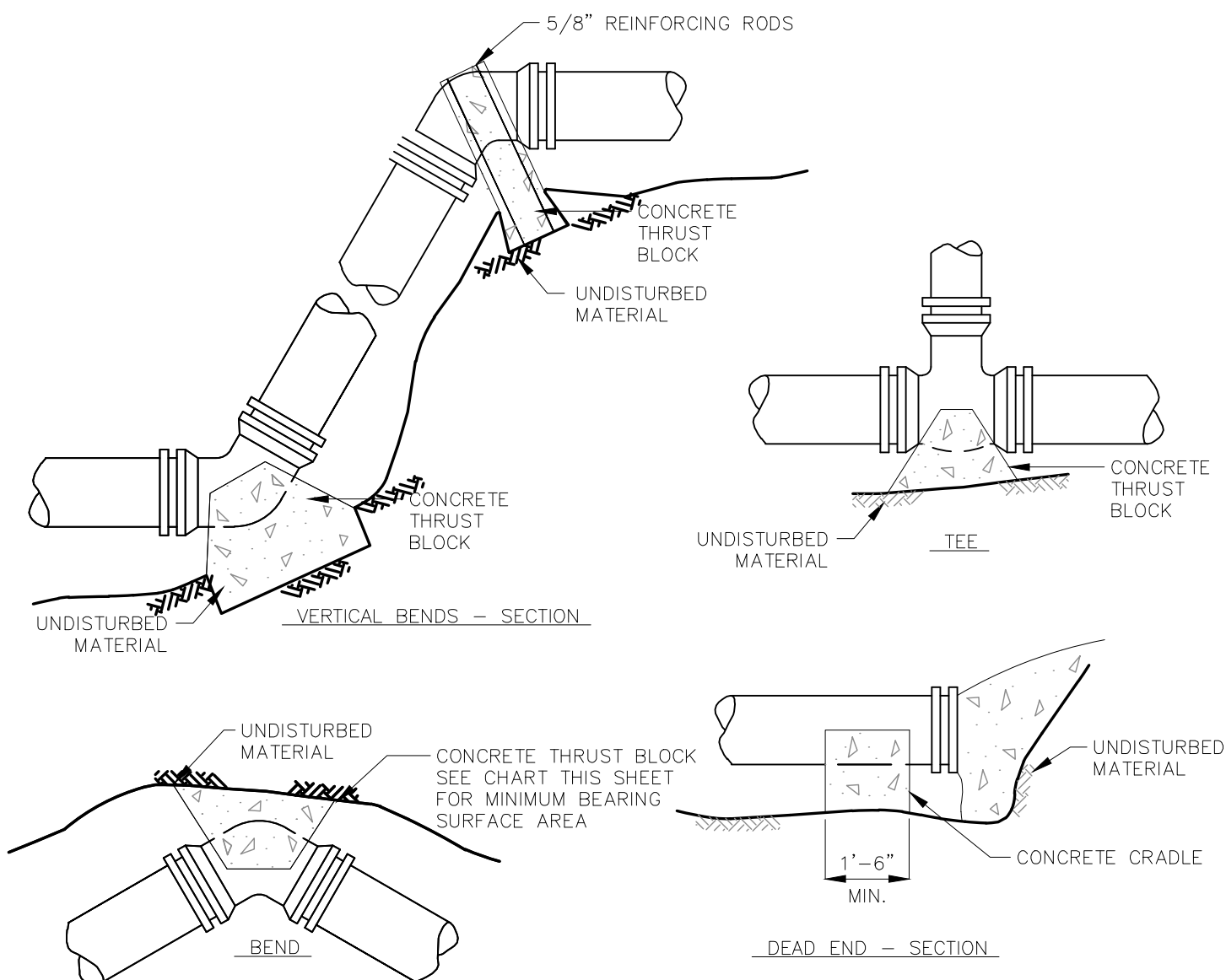
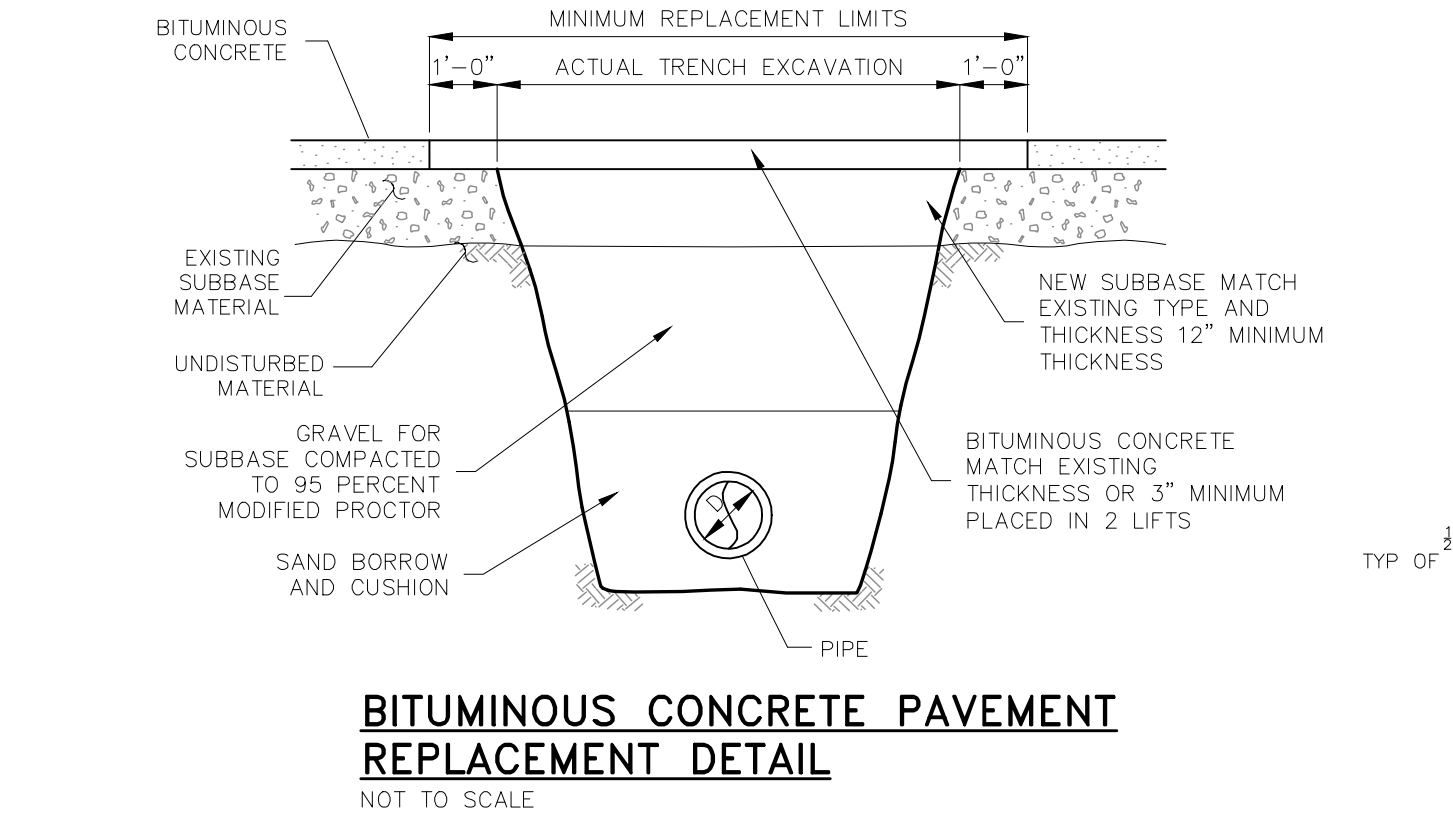
client:
DAVID LAURIN ARCHITECT

project number: 19365
drawn by: RBC
checked by: BMLK
scale: AS NOTED
date: 10 JUN 2020
released for: REVIEW

CONSTRUCTION DETAILS

C5.02

SHEET # OF #



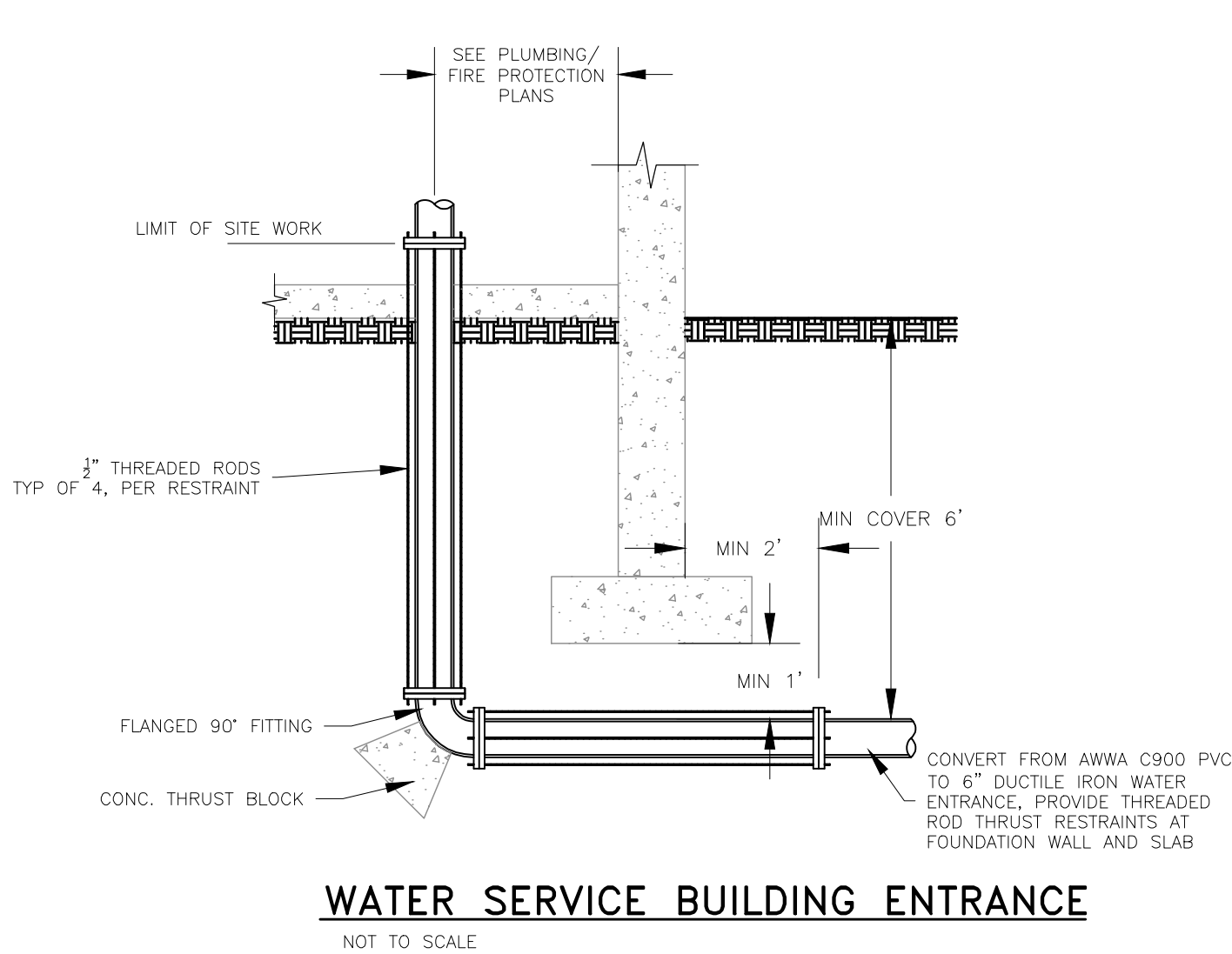
CONCRETE THRUST BLOCK DETAILS

AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS IN SQUARE FEET

PIPE SIZE (IN)	SOFT WET CLAY, SAND OR SILT	DRY SAND	COMPACT COARSE SAND OR GRAVEL HARDPAN
DEAD END OR TEE			
8 OR LESS	15	5	4
10	24	8	6
12	34	11	8
16	60	20	15
20	94	31	24
24	136	45	34
1/4 BEND			
8 OR LESS	21	7	5
10	33	11	8
12	48	16	12
16	85	28	21
20	133	44	33
24	192	64	48
1/8 BEND			
8 OR LESS	12	4	3
10	18	6	5
12	26	9	7
16	46	15	12
20	72	24	18
24	104	35	26
1/16 BEND			
8 OR LESS	6	2	2
10	9	3	2
12	13	4	3
16	24	8	6
20	37	12	9
24	53	18	13

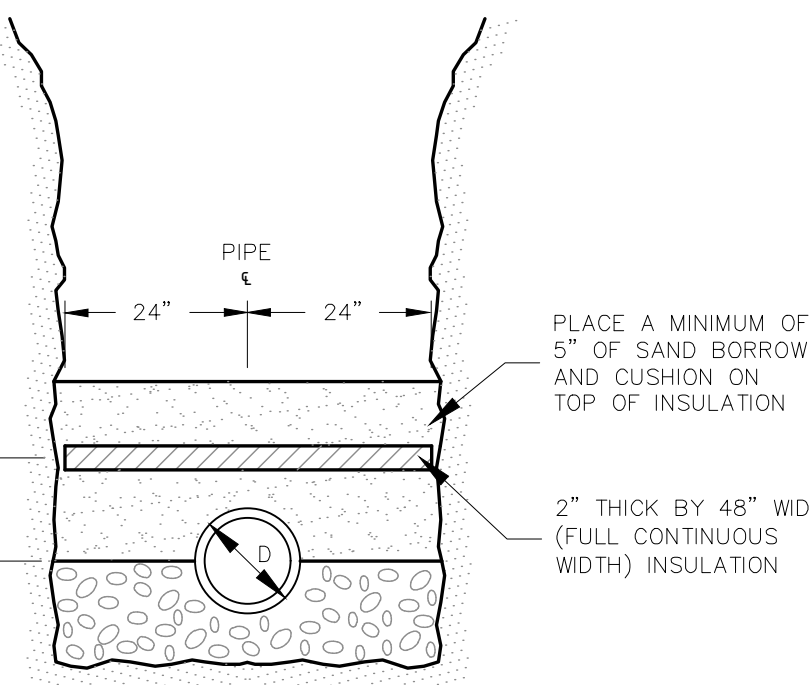
THRUST BLOCK TABLE NOTES

- FIGURES BASED ON 300 PSI.
- FOR PIPE SIZES NOT LISTED USE NEXT LARGER PIPE SIZE.
- WHEN MORE THAN ONE SOIL TYPE IS ENCOUNTERED, THE ONE WITH LEAST BEARING CAPACITY SHALL BE USED.
- POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL. NO JOINTS SHALL BE COVERED WITH CONCRETE.
- ON BENDS AND TEES, EXTEND THRUST BLOCK THE FULL LENGTH OF THE FITTING.
- PLACE CONCRETE PATIO BLOCKS IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCK.
- MEGA-LUG RETAINER GLANDS OR EQUAL ARE REQUIRED FOR ALL MECHANICAL JOINTS. THESE GLANDS DO NOT REDUCE THE REQUIREMENT FOR THRUST RESTRAINT.
- ALL FITTINGS SHALL BE WRAPPED IN POLYETHYLENE OR BUILDING PAPER PRIOR TO INSTALLATION OF CONCRETE RESTRAINT.
- THREADED ROD SHALL BE ANSI A242 F150 PIPE RESTRAINT NUTS TO MATCH AWWA C111. THREADED RODS AND NUTS TO BE FIELD COATED WITH BITUMINOUS PAINT.
- THRUST RESTRAINT IS REQUIRED FOR ALL TEES, BENDS, REDUCERS, CAPS, PLUGS, OR CROSSES.
- INSTALL LIFT HOOKS INTO THRUST BLOCKS AT END CAPS AND PLUGS.
- MEGA-LUGS CANNOT BE USED FOR CONNECTING TO EXISTING CAST-IRON PIPE. GRIP RINGS SHOULD BE USED IN THESE LOCATIONS OR AS DIRECTED BY THE ENGINEER.



WATER SERVICE BUILDING ENTRANCE

NOT TO SCALE

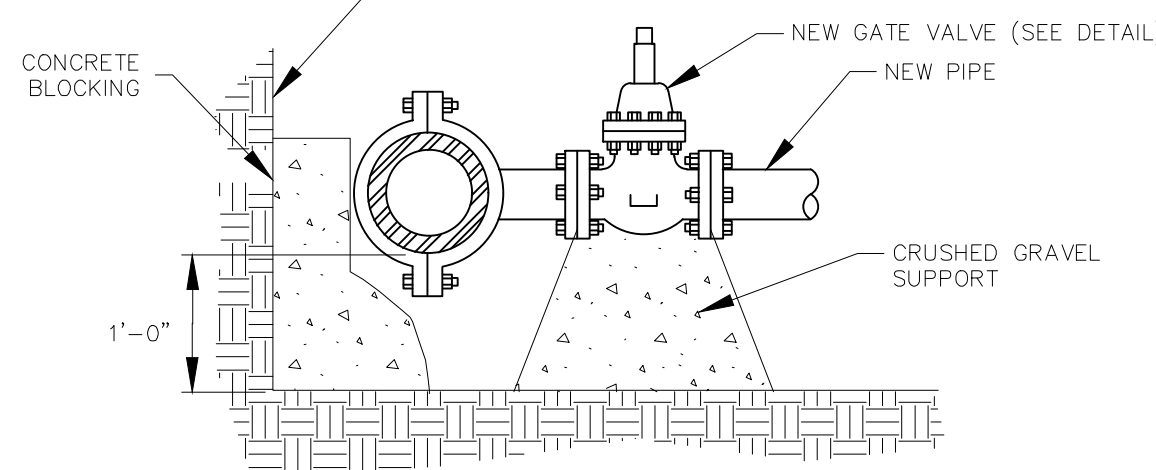
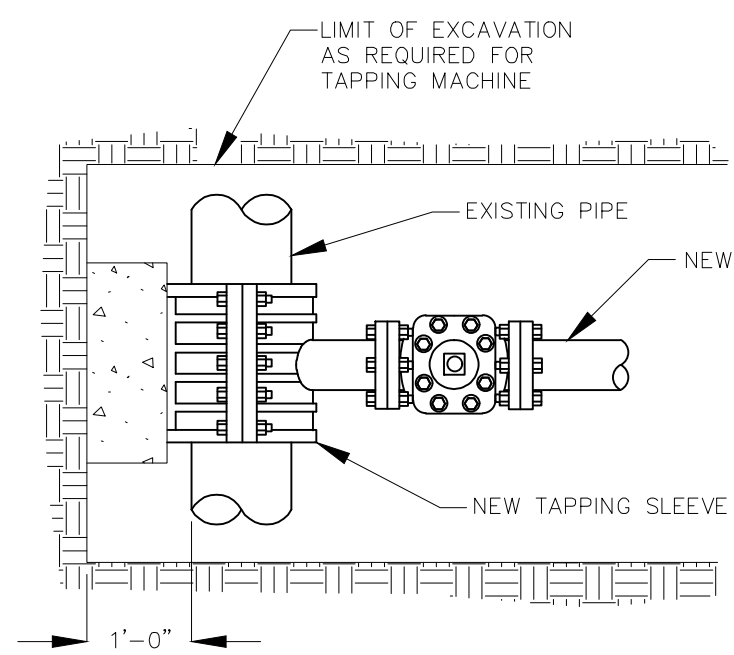


NOTES:

- 2 INCHES OF INSULATION SHALL BE USED FOR EVERY 1" OF REDUCED COVER ABOVE PIPE.
- PIPES SHALL HAVE NO LESS THAN 3" OF COVER, EXCEPT FOR DRIVEWAY CULVERTS.

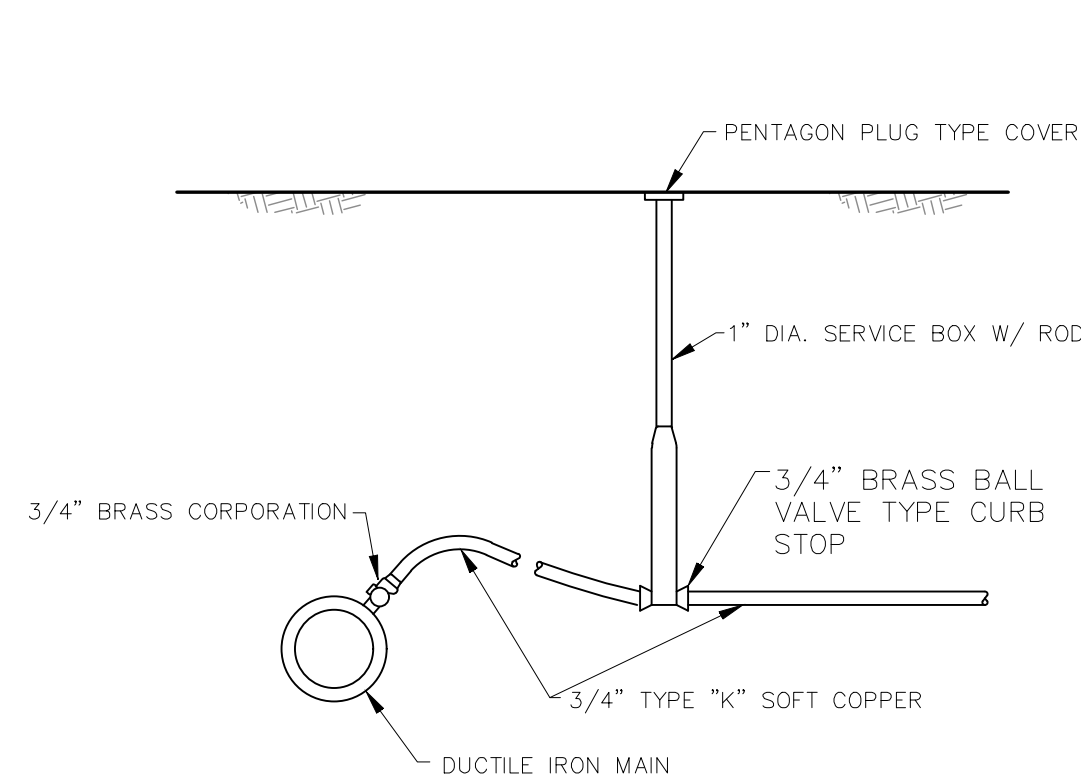
TYPICAL INSULATION

NOT TO SCALE



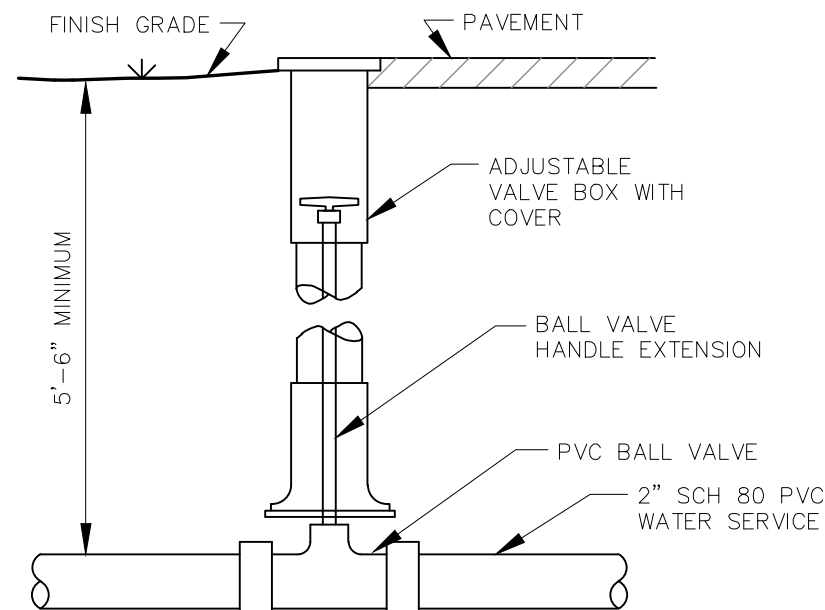
TAPPING SLEEVE AND VALVE INSTALLATION DETAIL

NOT TO SCALE



TYPICAL HOUSE SERVICE (WATER)

NOT TO SCALE

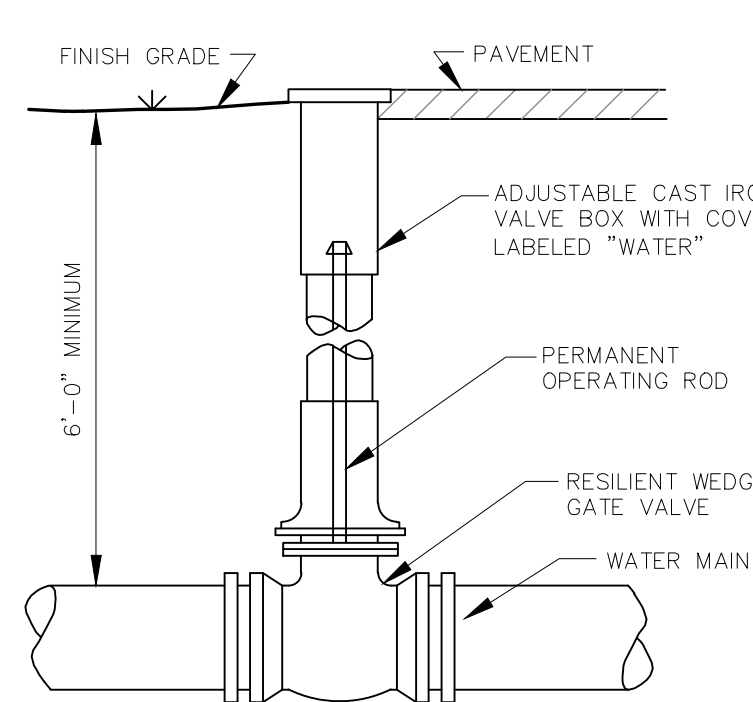


NOTE:

UNLESS OTHERWISE INDICATED ALL VALVES SHALL HAVE PERMANENTLY INSTALLED OPERATING RODS TERMINATING AT LEAST 2'-0" AND NOT MORE THAN 3'-0" BELOW THE TOP OF THE VALVE BOX.

BURIED WATER SHUTOFF DETAIL

NOT TO SCALE

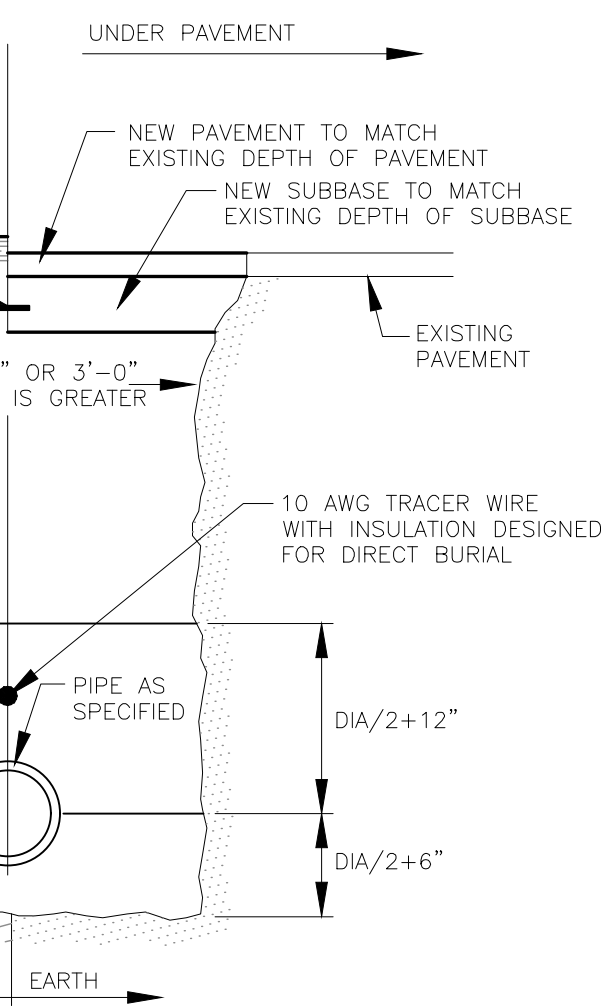


NOTE:

UNLESS OTHERWISE INDICATED ALL GATE VALVES SHALL HAVE PERMANENTLY INSTALLED OPERATING RODS TERMINATING AT LEAST 2'-0" AND NOT MORE THAN 3'-0" BELOW THE TOP OF THE VALVE BOX.

BURIED GATE VALVE DETAIL

NOT TO SCALE

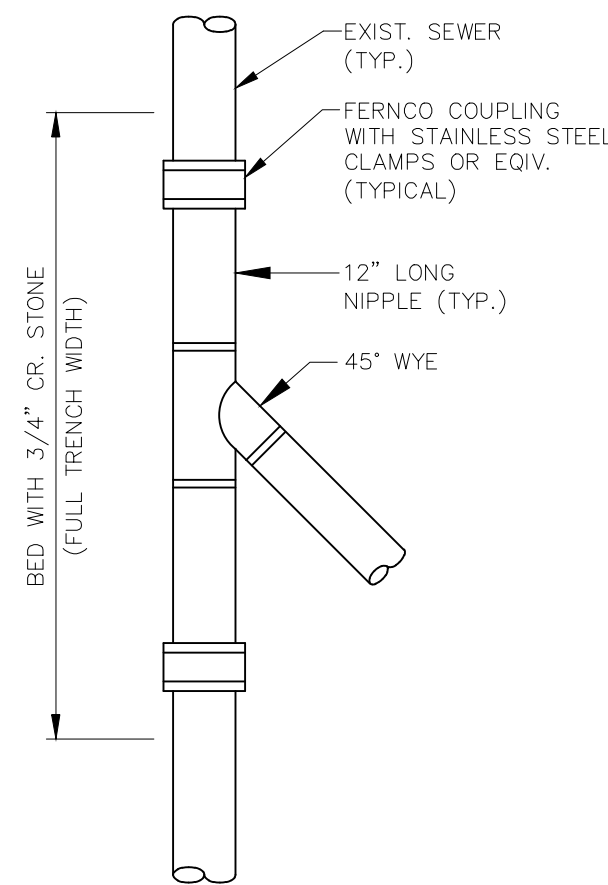


NOTE:

- BRACING AND SHEETING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND O.S.H.A. SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE RESPONSIBILITY OF THE CONTRACTOR.

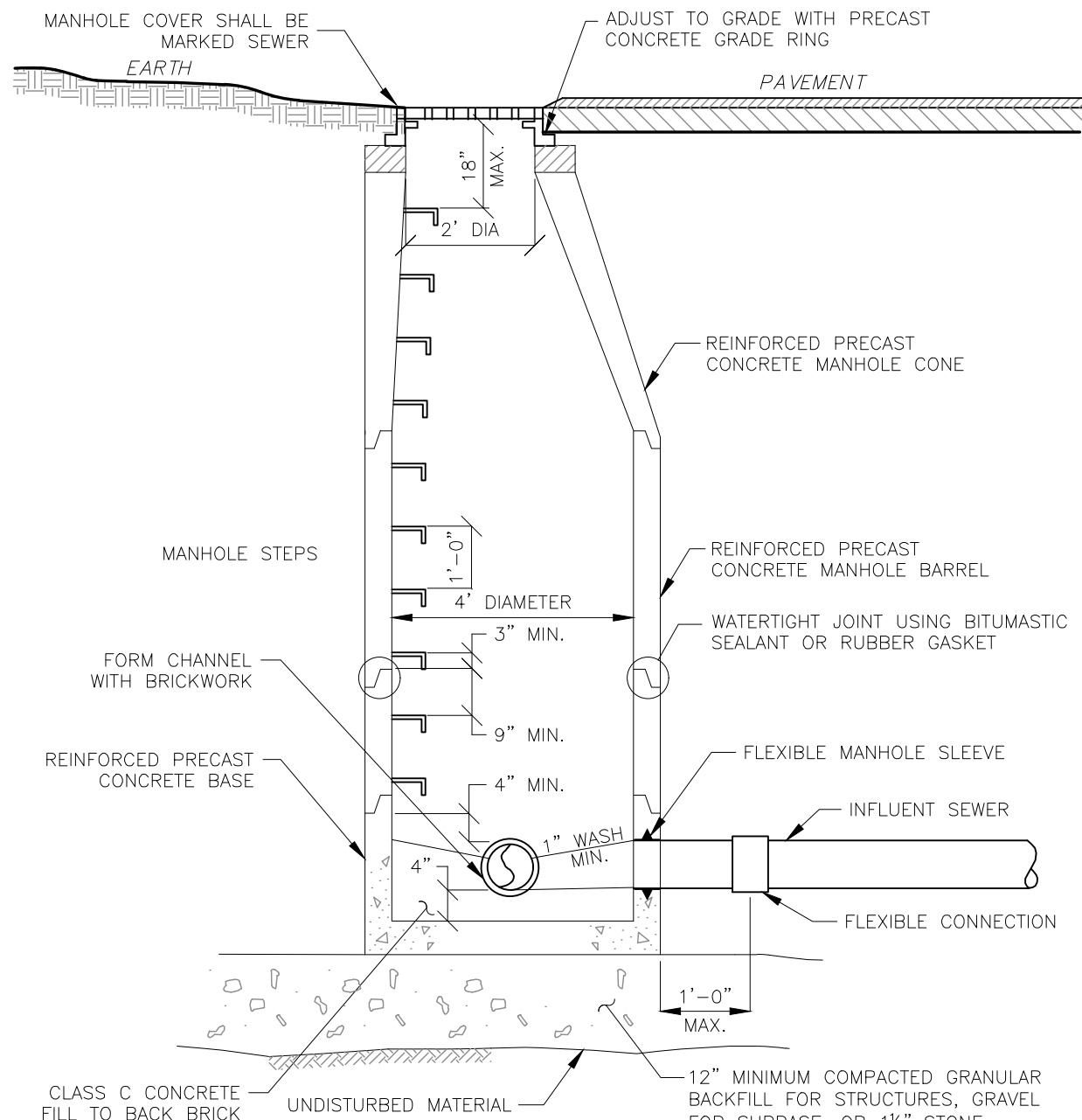
TYPICAL TRENCH LIMITS AND BEDDING DETAIL

NOT TO SCALE



CONNECTION TO EXISTING SEWER

NOT TO SCALE

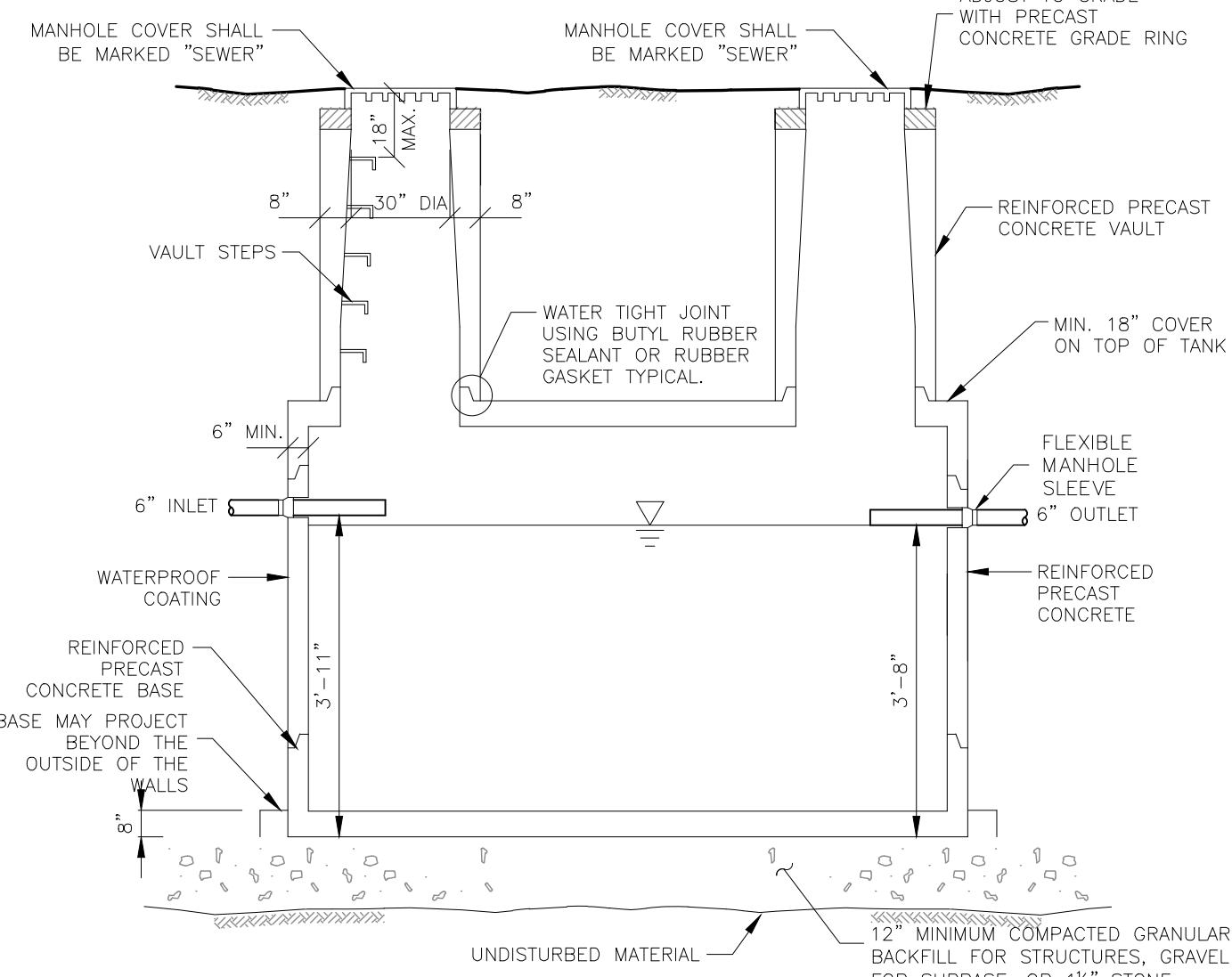


NOTES:

- WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A FLAT REINFORCED CONCRETE COVER WITH AN ECCENTRIC OPENING AND CAPABLE OF H-20 WHEEL LOADS MAY BE USED.
- ALL MANHOLES SHALL BE DESIGNED FOR H-20 WHEEL LOADS.

SEWER MANHOLE DETAIL

NOT TO SCALE



NOTES:

- WHEN VAULT DEPTH IS LESS THAN 6 FEET, A FLAT REINFORCED CONCRETE COVER WITH AN ECCENTRIC OPENING AND CAPABLE OF HS-20 WHEEL LOADS MAY BE USED.
- ALL PORTIONS OF THIS STRUCTURE SHALL BE DESIGNED FOR HS-20 WHEEL LOADS.
- VAULT TO BE 1000 GAL.; 5'(W) x 10'(L) x 4'(H) INSIDE.

1000 GALLON GRIT TRAP

NOT TO SCALE

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no. date revision



project name:
**SPAULDING EDUCATIONAL
ALTERNATIVES FACILITY**

project location:

**91 ALLEN STREET
BARRE, VERMONT**

client:
DAVID LAURIN ARCHITECT

project number: 19365
drawn by: RBC
checked by: BMLK
scale: AS NOTED
date: 10 JUNE 2020
released for: REVIEW

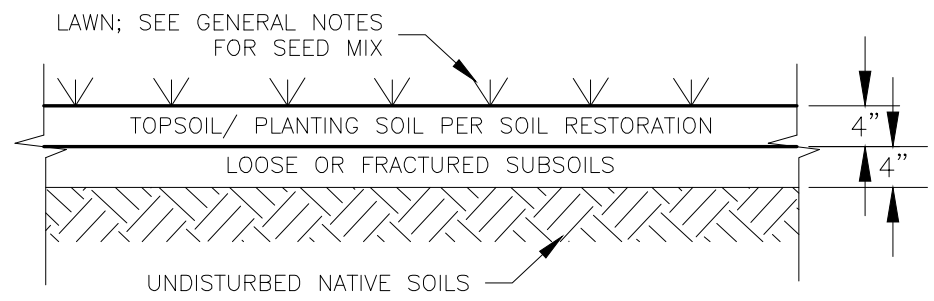
sheet description:
**CONSTRUCTION
DETAILS**

C5.03

SHEET # OF #

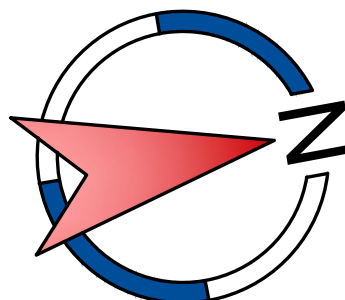
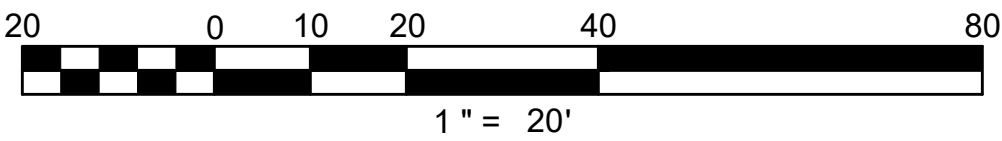
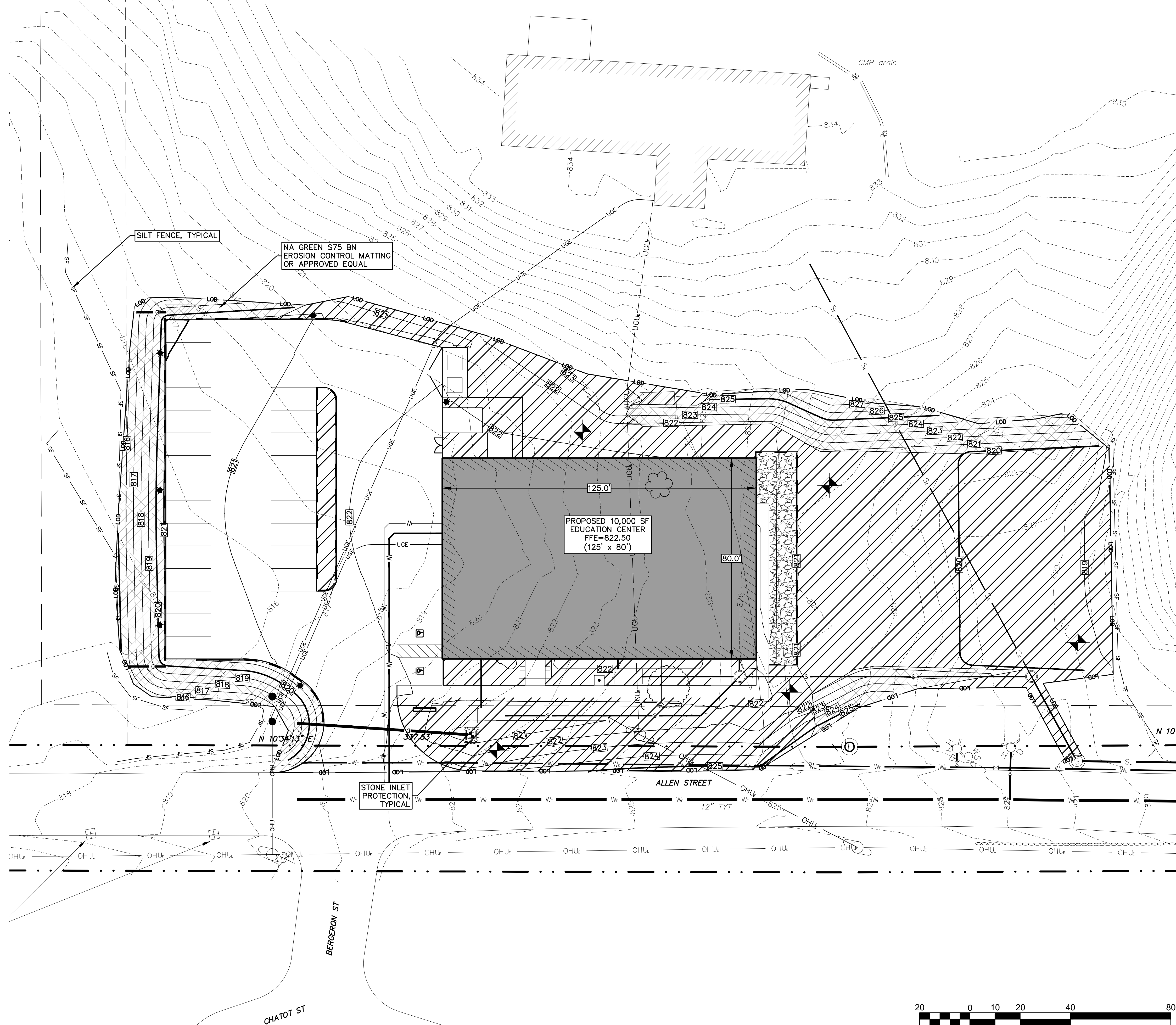
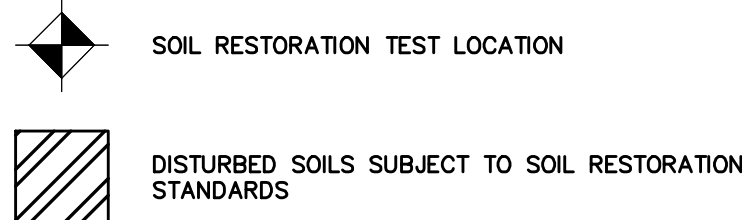
POST-CONSTRUCTION SOIL DEPTH AND QUALITY

1. GENERAL:
- 1.1. POST-CONSTRUCTION SOIL DEPTH AND QUALITY STANDARDS APPLY TO ALL DISTURBED SOILS ON-SITE EXCEPT:
- 1.1.1. AREAS ON SLOPES > 33%
- 1.1.2. IMPERVIOUS SURFACES
- 1.1.3. STRUCTURAL STORMWATER TREATMENT PRACTICES
- 1.1.4. SOILS ENGINEERED AS STRUCTURAL FILL
- 1.2. TOPSOIL MUST CONTAIN 4% ORGANIC MATTER BY WEIGHT AND BE A MINIMUM OF 4" IN DEPTH UNLESS OTHERWISE NOTED ON THE PLAN.
- 1.3. FOR MORE INFORMATION SEE THE 2017 VERMONT STORMWATER MANAGEMENT MANUAL RULE AND DESIGN GUIDANCE CHAPTER 3.
2. TREATMENT STANDARDS
- 2.1. RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICAL.
- 2.2. COMPOST SHALL BE AS DEFINED IN THE AGENCY OF NATURAL RESOURCES' SOLID WASTE MANAGEMENT RULES OR SHALL MEET THE CONTAMINANT STANDARDS IN THE VERMONT SOLID WASTE MANAGEMENT RULES §6-1104(g)(6-7), §6-1105(e)(8-9), AND §6-1106(e)(7-9).
- 2.3. "EXCEPTIONAL QUALITY BIOSOLIDS" OR "EQ BIOSOLIDS" MEANS SLUDGES OR BIOSOLIDS THAT HAVE BEEN SUBJECTED TO AN ADVANCED PATHOGEN REDUCTION TREATMENT PROCESS AND MEET THE VECTOR ATTRACTION AND POLLUTANT CONCENTRATION STANDARDS SUCH THAT THEY ARE NO LONGER CLASSIFIED AS A SOLID WASTE PURSUANT TO §6-301(B)(5) OF THE SOLID WASTE MANAGEMENT RULES, AND MAY BE MARKETED AND DISTRIBUTED TO THE GENERAL PUBLIC FOR USE WITHOUT A SITE-SPECIFIC PERMIT.
- 2.4. EQ BIOSOLIDS MAY BE USED AS A SOIL AMENDMENT UP TO 35% OF THE SOIL VOLUME AND SHALL BE WELL MIXED WITH THE EXISTING SOIL BEFORE OR DURING APPLICATION.
- 2.5. COMPOST AND OTHER MATERIALS SHALL HAVE A CARBON TO NITROGEN RATIO BELOW 25:1.
- 2.6. LEAVE NATIVE VEGETATION AND SOIL UNDISTURBED OUTSIDE OF THE CONSTRUCTION SITE AREA AND PROTECT IT FROM COMPACTION. DELINEATE LIMITS OF CONSTRUCTION WITH CONSTRUCTION FENCE OR APPROVED EQUAL PRIOR TO EARTH DISTURBANCE.
- 2.7. WHERE NATIVE SOILS ARE DISTURBED, RESTORE QUALITY USING ONE OF THE FOLLOWING METHODS:
- 2.7.1. AMEND EXISTING TOPSOIL OR SUBSOIL IN PLACE
- 2.7.1.1. SCARIFY OR TILL SUBSOILS TO 4" OF DEPTH OR TO DEPTH NEEDED TO ACHIEVE A TOTAL DEPTH OF 8" OF UNCOMPACTED SOIL. THE ENTIRE AREA SHALL BE DISTURBED BY SCARIFICATION EXCEPT WITHIN THE DRIP LINE OF EXISTING TREES.
- 2.7.1.2. RAKE BEDS SMOOTH AND REMOVE SURFACE ROCKS GREATER THAN 2" IN DIAMETER; AND
- 2.7.1.3. WATER OR ROLL TO COMPACT SOIL IN TURF AREAS TO 85% MAXIMUM DRY DENSITY.
- 2.7.2. REMOVE AND STOCKPILE EXISTING TOPSOIL DURING GRADING
- 2.7.2.1. STOCKPILE SOIL ON-SITE IN A DESIGNATED CONTROLLED AREA, AT LEAST 50 FEET FROM SURFACE WATERS, WETLANDS, FLOOD PLANS, OR OTHER CRITICAL RESOURCE AREAS.
- 2.7.2.2. SCARIFY OR TILL SUBGRADE TO A DEPTH OF 4". THE ENTIRE SURFACE SHALL BE DISTURBED EXCEPT WITHIN THE DRIP LINE OF EXISTING TREES.
- 2.7.2.3. REPLACE STOCKPILED TOPSOIL PRIOR TO PLANTING.
- 2.7.2.4. RAKE TO LEVEL AND REMOVE SURFACE ROCKS GREATER THAN 2" IN DIAMETER; AND
- 2.7.2.5. WATER OR ROLL TO COMPACT SOIL IN TURF AREAS TO 85% OF MAXIMUM DRY DENSITY.
- 2.7.2.6. IMPORT TOPSOIL MIX OR OTHER MATERIALS FOR MIXING INCLUDING COMPOST OF SUFFICIENT ORGANIC CONTENT (4%) AND DEPTH (4")
- 2.7.2.7. SCARIFY OR TILL SUBGRADE TO A DEPTH OF 4". THE ENTIRE SURFACE SHALL BE DISTURBED, EXCEPT WITHIN THE DRIP LINE OF EXISTING TREES.
- 2.7.2.8. PLACE 4" OF IMPORTED TOPSOIL MIX ON SURFACE. THE IMPORTED TOPSOIL MIX SHALL CONTAIN 4% ORGANIC MATTER. SOILS USED IN THE MIX SHALL BE SAND OR SANDY LOAM AS DEFINED BY THE USDA.
- 2.7.2.9. RAKE BEDS TO SMOOTH AND REMOVE SURFACE ROCKS GREATER THAN 2" IN DIAMETER; AND
- 2.7.2.10. WATER OR ROLL TO COMPACT SOIL IN TURF AREAS TO 85% OF MAXIMUM DRY DENSITY.
3. POST CONSTRUCTION
- 3.1. IF IT IS NECESSARY TO CONFIRM THAT THE POST-CONSTRUCTION SOIL QUALITY AND DEPTH STANDARD HAS BEEN MET UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL DIG BY HAND NINE 8" DEEP TEST HOLES PER ACRE OF DISTURBED AREA SUBJECT TO THE SOIL DEPTH AND QUALITY STANDARDS. TEST HOLES SHALL BE EXCAVATED USING ONLY A SHOVEL DRIVEN SOLELY BY THE INSPECTORS' WEIGHT AND SHALL BE ATLEAST 50' APART FROM EACHOTHER. THE CONTRACTOR SHALL MEASURE THE DEPTH OF TOPSOIL AND SUBSOIL AND CONFIRM THAT THE POST CONSTRUCTION CONDITIONS MEET THE STANDARDS FOR DEPTH AND QUALITY
- 3.2. A DENSE AND VIGOROUS VEGETATIVE COVER SHALL BE ESTABLISHED OVER TURF AREAS. SEE GENERAL NOTES ON SHEET C0.01 FOR SEED MIX.



SOIL RESTORATION

NOT TO SCALE



GRID

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no.	date	revision
1		

SPAULDING EDUCATIONAL
ALTERNATIVES FACILITY

project location:
91 ALLEN STREET
BARRE, VERMONT

client:
DAVID LAURIN ARCHITECT

project number: 19365
drawn by: RBC
checked by: BMLK
scale: 1"=20'
date: 15 JUN 2020
released for: PERMITTING

sheet description:
EROSION CONTROL
AND SOIL QUALITY

EC.01

REINFORCING SPLICE LENGTHS				
Fy=60 KSI BAR	F'c=3 KSI		F'c=4 KSI	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
3	17"	13"	15"	12"
4	23"	18"	20"	15"
5	28"	22"	25"	19"
6	34"	26"	29"	23"
7	49"	38"	43"	33"
8	56"	43"	49"	37"
9	63"	48"	55"	42"

CHART BASED ON THE FOLLOWING:
BAR SPACING 5" MINIMUM
CLEAR COVER 2" BAR DIAMETERS MINIMUM
REFER TO ACI 318-14 FOR OTHER CONDITIONS
TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE

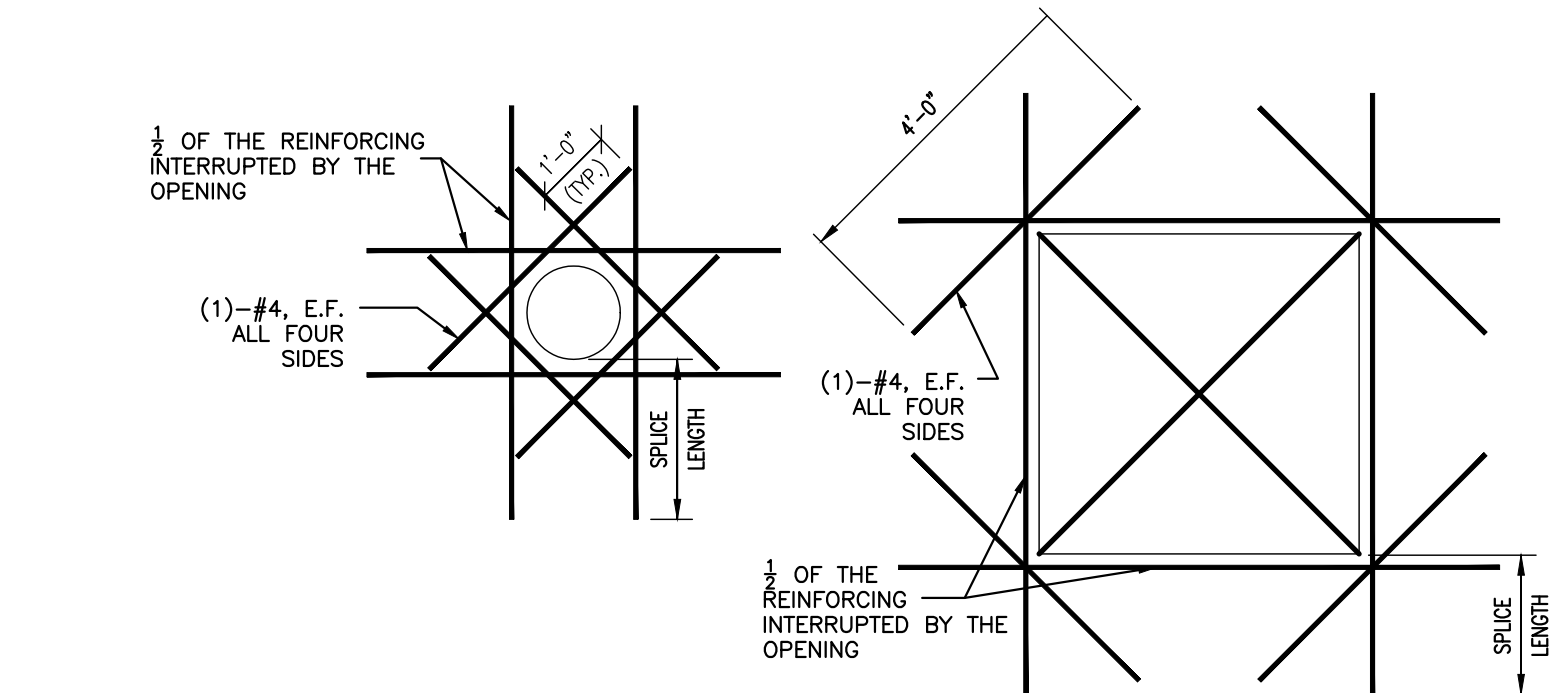
ABBREVIATIONS

- T.O.S. TOP OF SLAB
- EL. ELEVATION
- DIM. DIMENSION
- T.O.W. TOP OF WALL
- T.O.SH. TOP OF SHELF
- F.O.C. FACE OF CONCRETE
- E.O.D. EDGE OF DECK
- E.O.S. EDGE OF SLAB
- T.C.X. TOP CHORD EXTENSION
- E.F. EACH FACE
- E.W. EACH WAY
- U.O.N. UNLESS OTHERWISE NOTED
- C.J. SLAB CONTROL JOINT
- CONT. CONTINUOUS
- NTS. NOT TO SCALE
- TYP. TYPICAL
- F.D. FLOOR DRAIN
- ℄ CENTERLINE
- DIA. DIAMETER
- DWL. DOWEL
- CL. CLEAR
- LLV LONG LEG VERTICAL
- LLH LONG LEG HORIZONTAL
- DWGS. DRAWINGS
- LG LIGHT GAUGE

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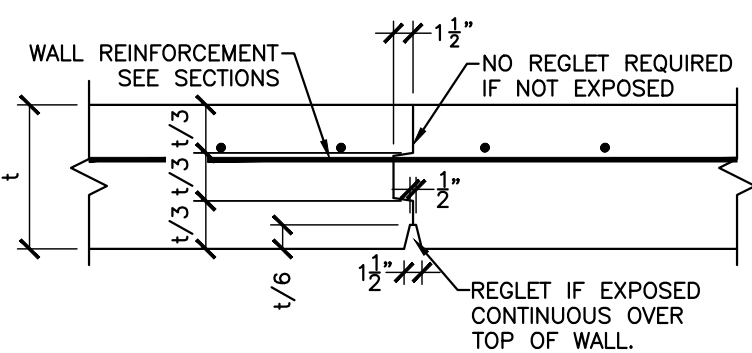
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TYPICAL OPENING REINFORCEMENT

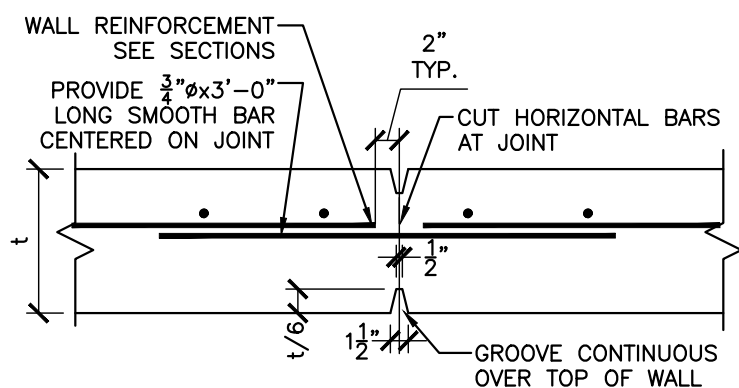
NOT TO SCALE

PROVIDE AT PENETRATIONS THROUGH WALLS UNLESS OTHERWISE NOTED.



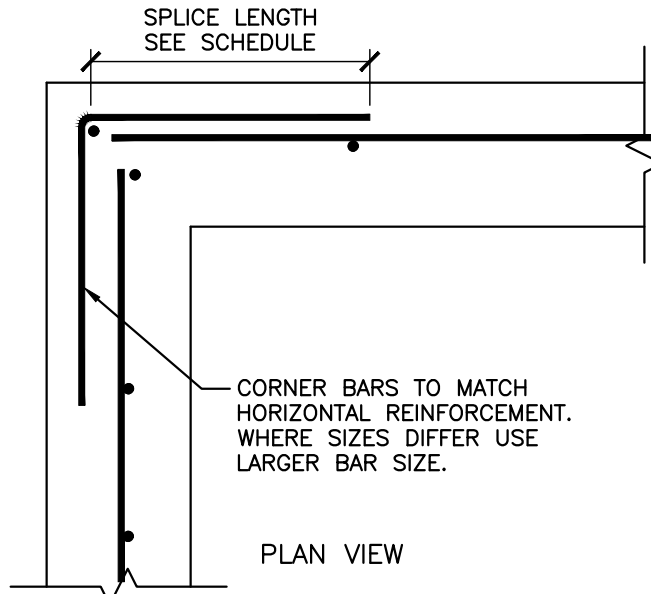
TYPICAL WALL CONSTRUCTION JOINT

NOT TO SCALE
INDICATED BY "WCNJ" ON PLANS



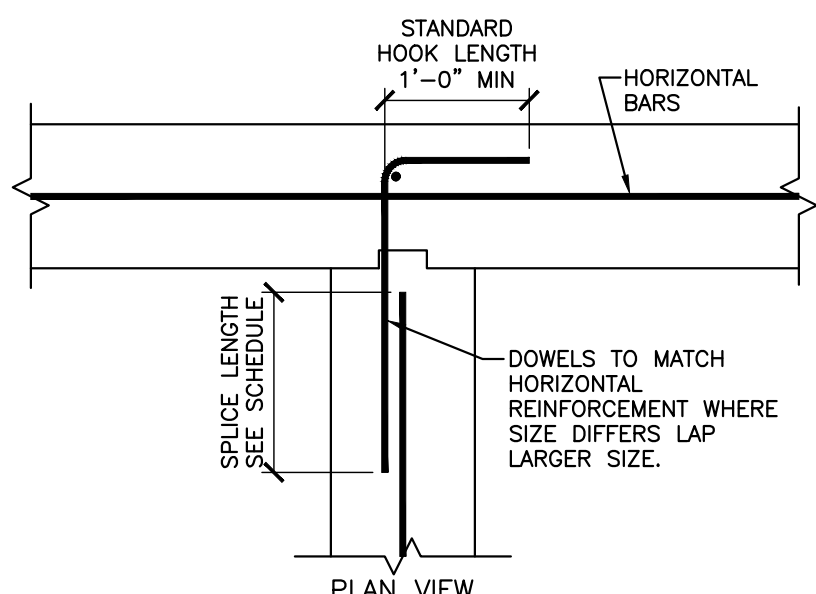
TYPICAL WALL CONTROL JOINT

NOT TO SCALE
25'-0" MAXIMUM SPACING
INDICATED BY "WCJ" ON PLANS



TYPICAL WALL CORNER DETAIL

SCALE: N.T.S.



TYPICAL WALL INTERSECTION DETAIL

SCALE: N.T.S.

project name:

SPAULDING EDUCATIONAL
ALTERNATIVES FACILITIES

project location:

91 ALLEN STREET
BARRE, VERMONT

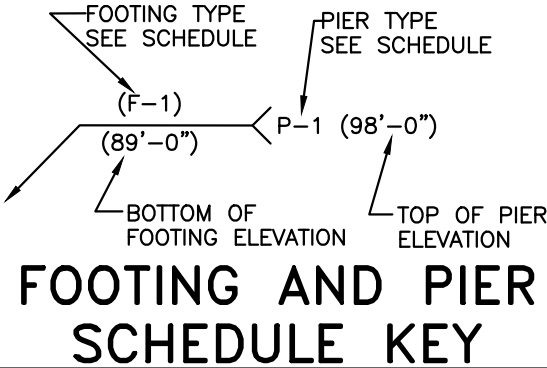
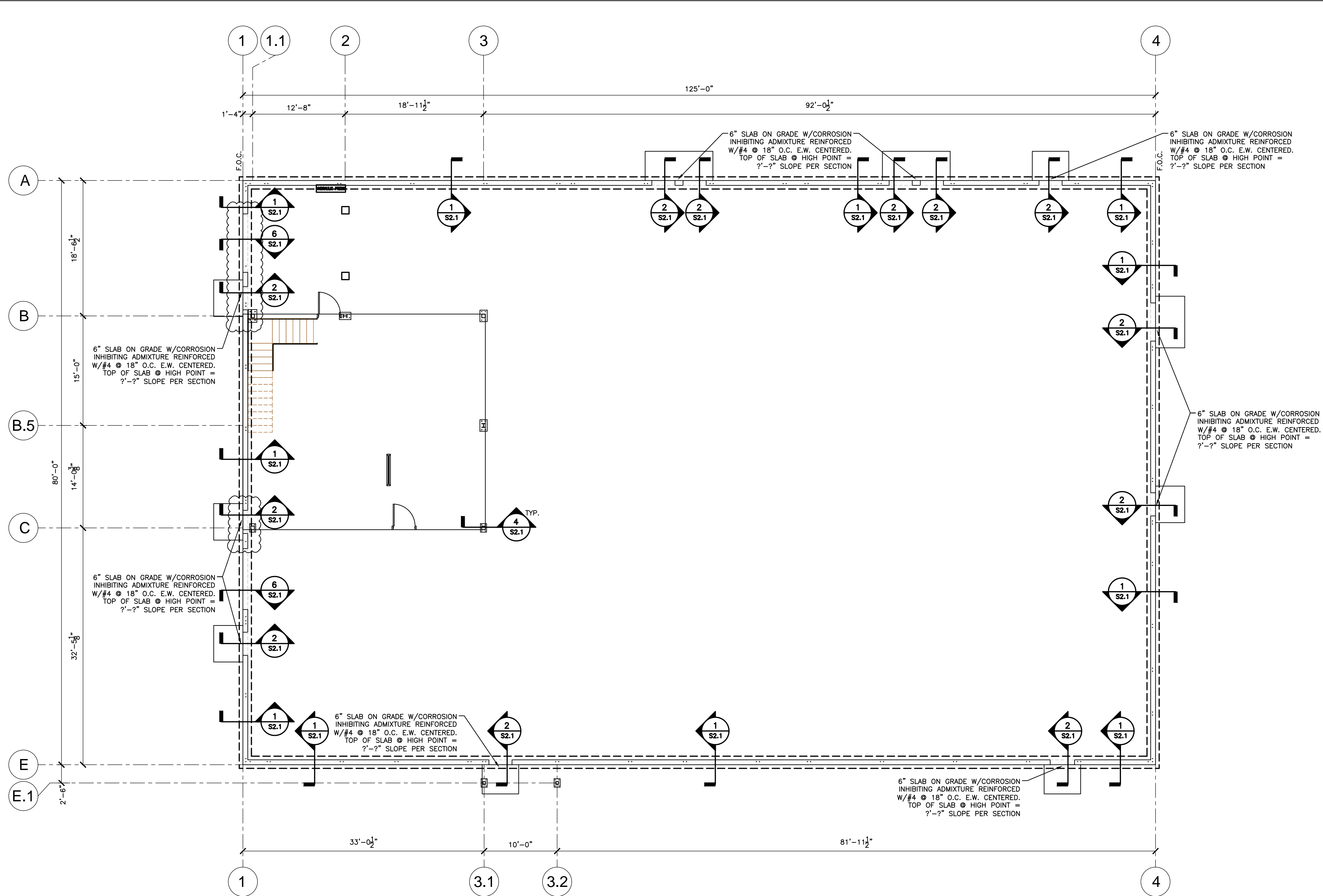
client:

DAVID LAURIN ARCHITECTS

project number:	19365
drawn by:	KLA
checked by:	
scale:	AS NOTED
date:	23 JUNE, 2020
released for:	PROGRESS
sheet description:	

GENERAL NOTES &
TYPICAL DETAILS

S1.0



FOOTING SCHEDULE		
FTG. TYPE	FOOTING SIZE IN FEET-INCHES LENGTH x WIDTH x DEPTH	FOOTING REINFORCEMENT
F-2.0	2'-0"x2'-0"x1'-0"	3-#4 BARS E.W. BOTTOM

PIER SCHEDULE		
PIER TYPE	PIER SIZE IN INCHES LENGTH x WIDTH	PIER REINFORCEMENT
P-1		?-#? BARS VERT. W/#3 TIES @ 10"

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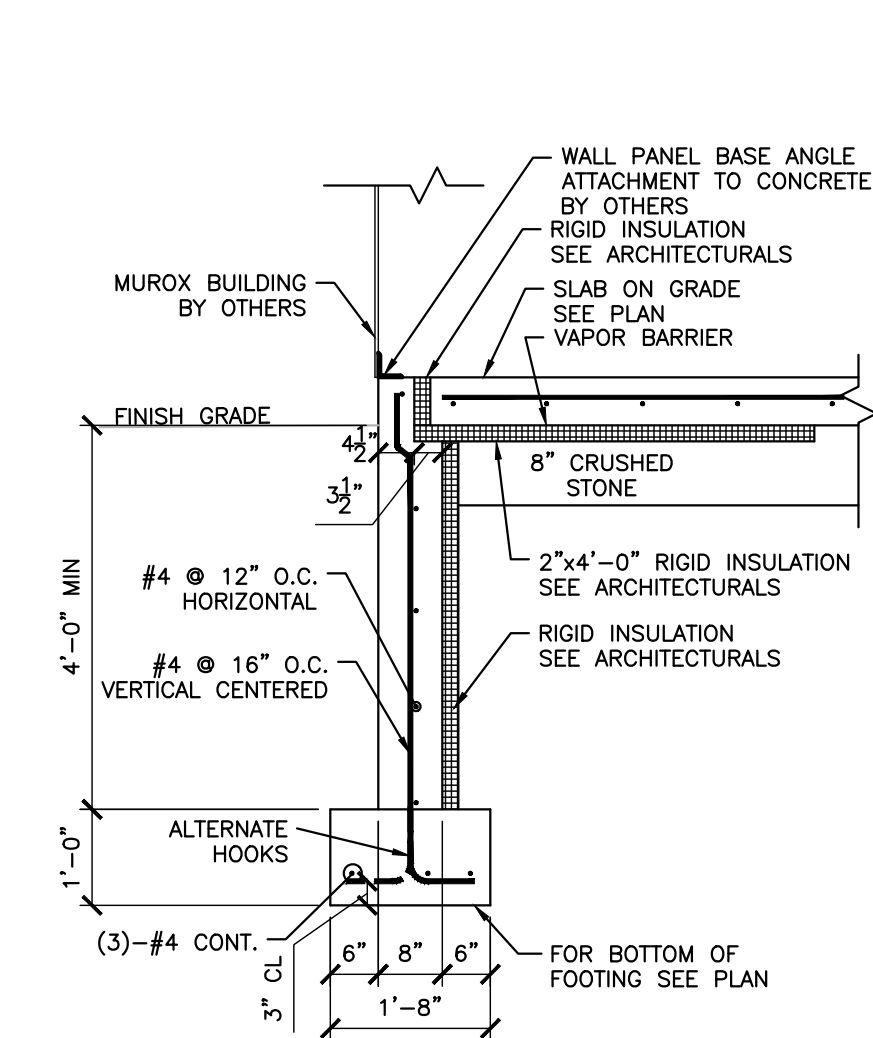
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project location: 91 ALLEN STREET BARRE, VERMONT

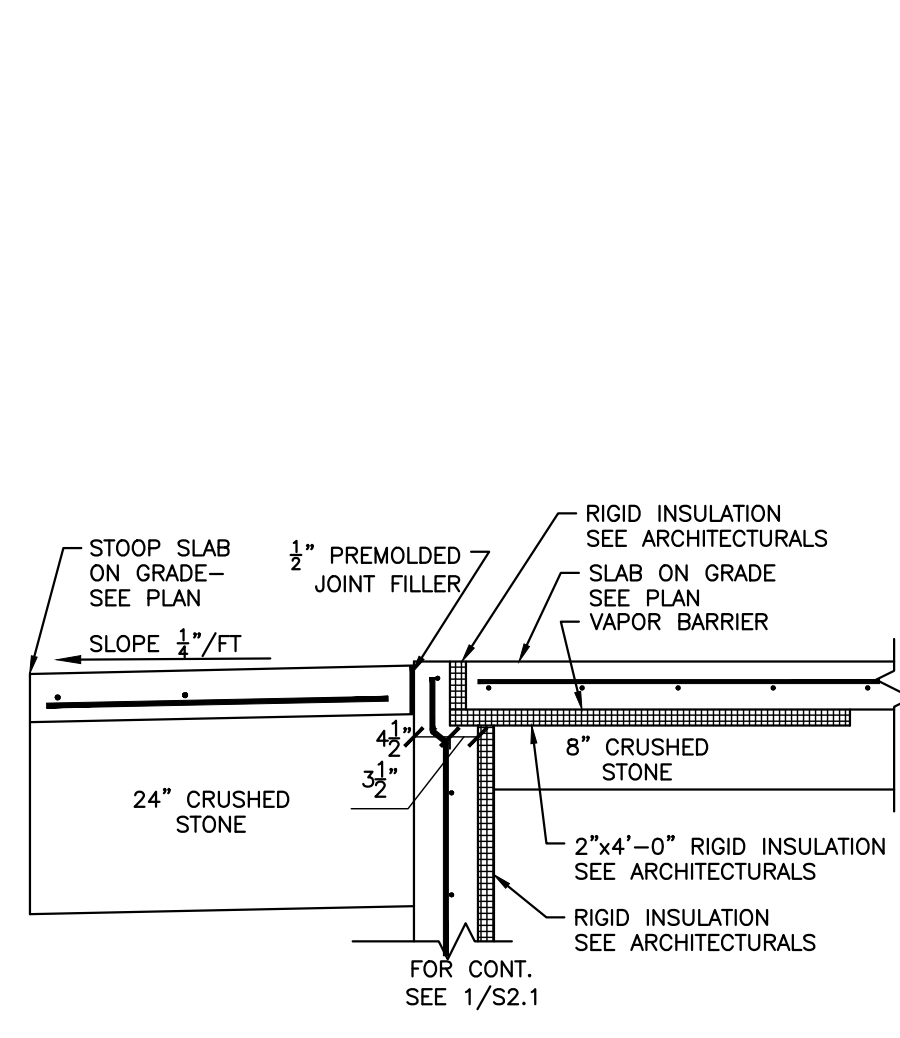
client: DAVID LAURIN ARCHITECTS

project number:	19365
drawn by:	KLA
checked by:	
scale:	AS NOTED
date:	23 JUNE, 2020
released for:	PROGRESS
sheet description:	FOUNDATION PLAN

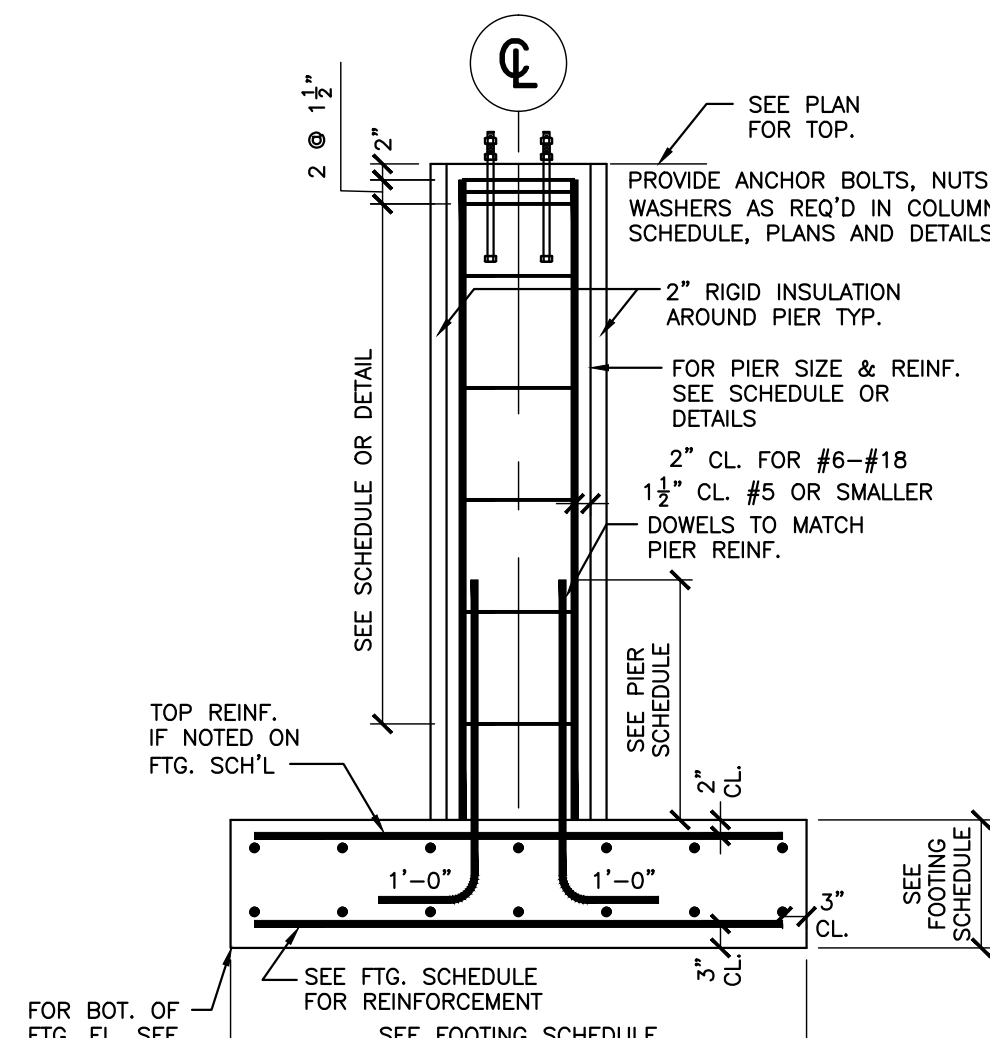
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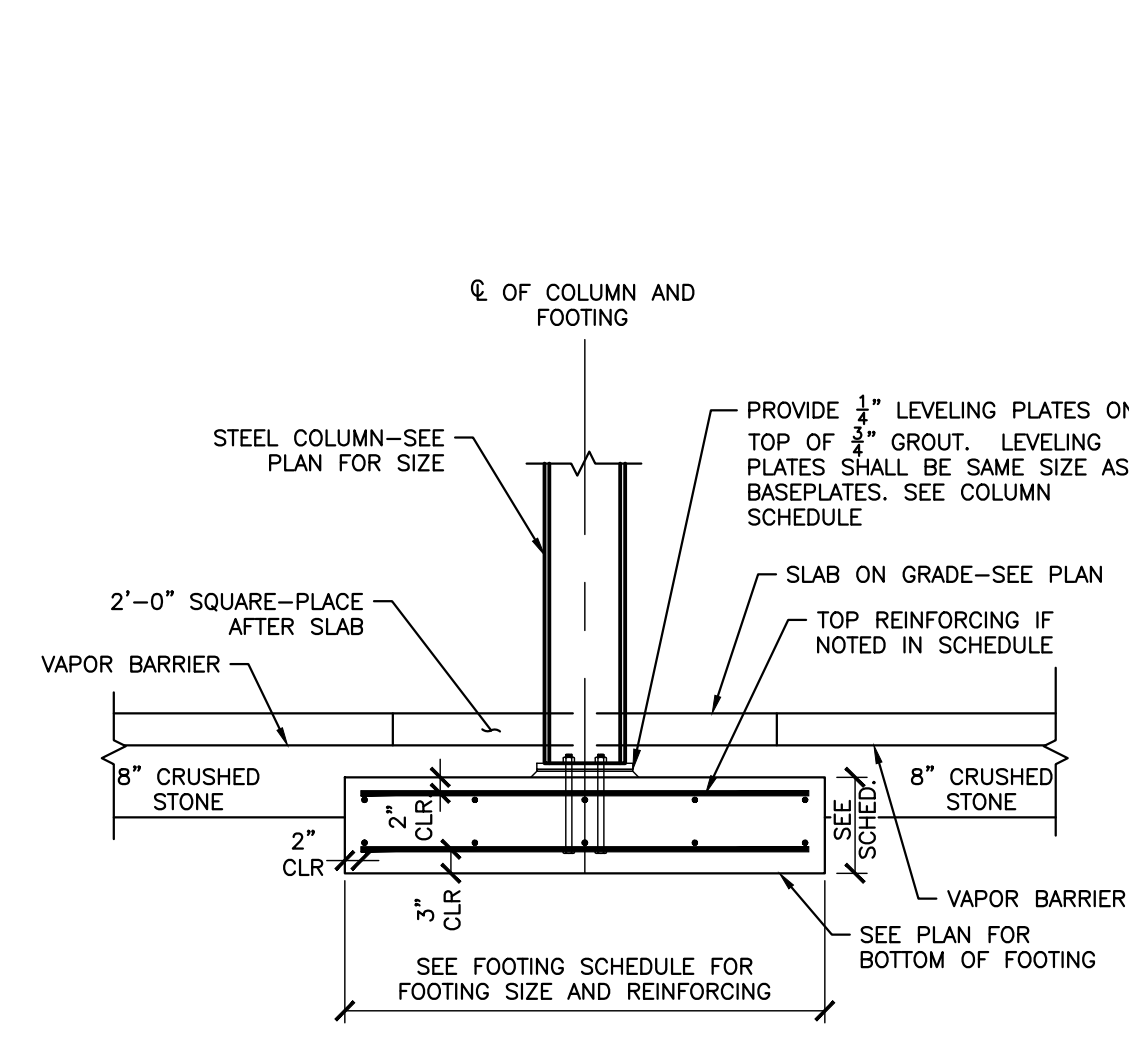
TYPICAL WALL SECTION 1
SCALE: 1/2"=1'-0"



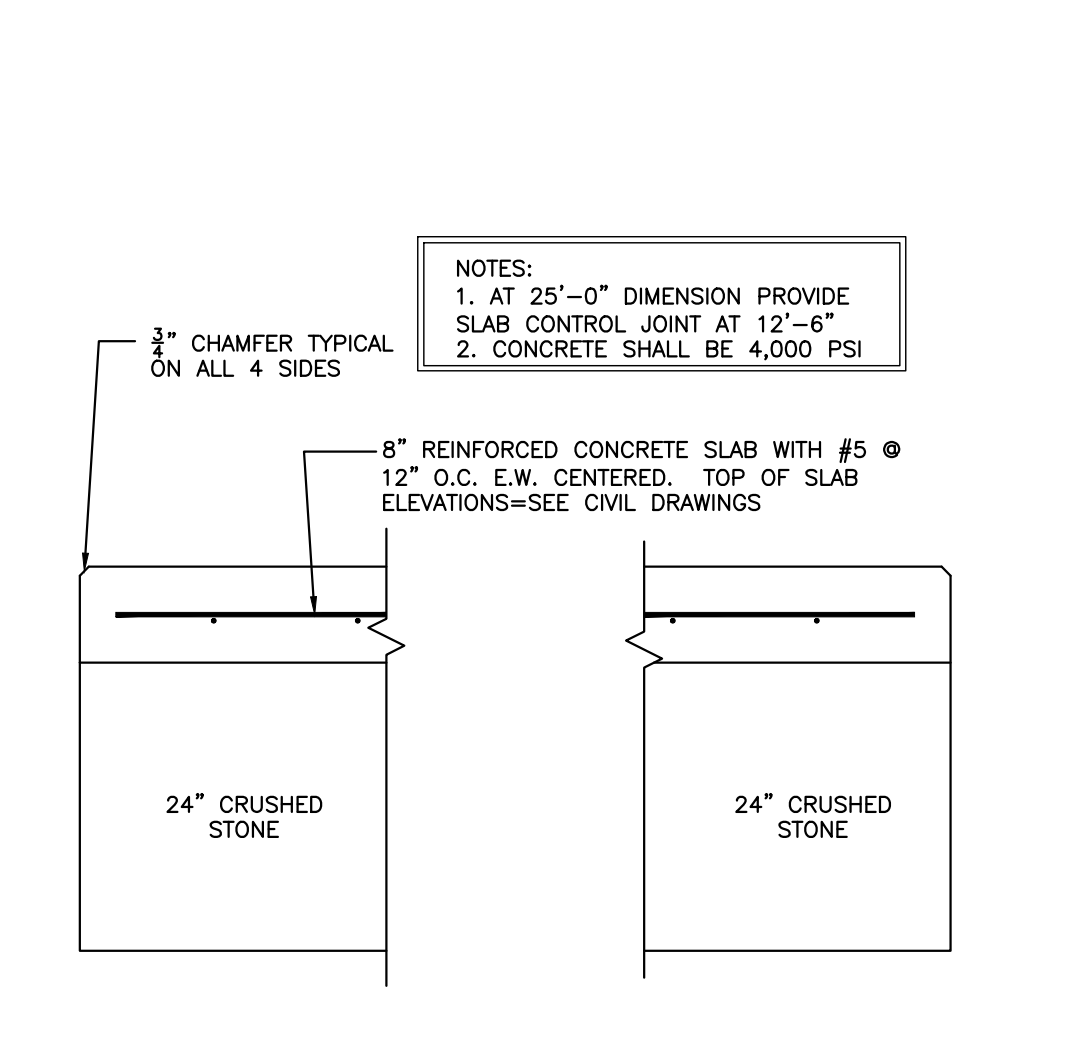
SECTION @ STOOP 2
SCALE: 1/2"=1'-0"



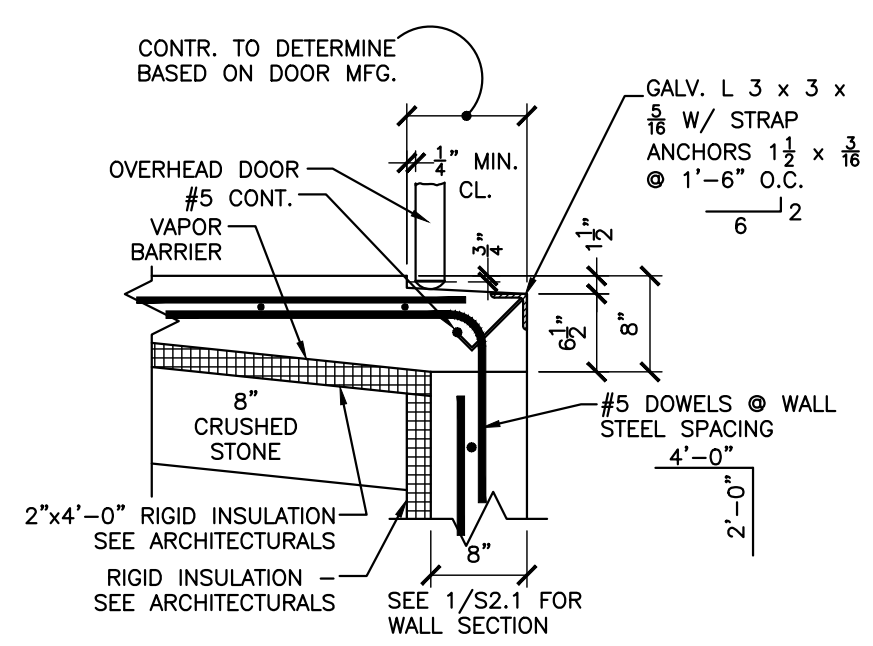
TYPICAL PIER SECTION 3
SCALE: 1/2"=1'-0"



TYPICAL ISOLATED FOOTING DETAIL 4
SCALE: 1/2"=1'-0"



EXTERIOR CHILLER PAD DETAIL 5
SCALE: 3/4"=1'-0"



OVERHEAD DOOR DETAIL 6
SCALE: 3/4"=1'-0"

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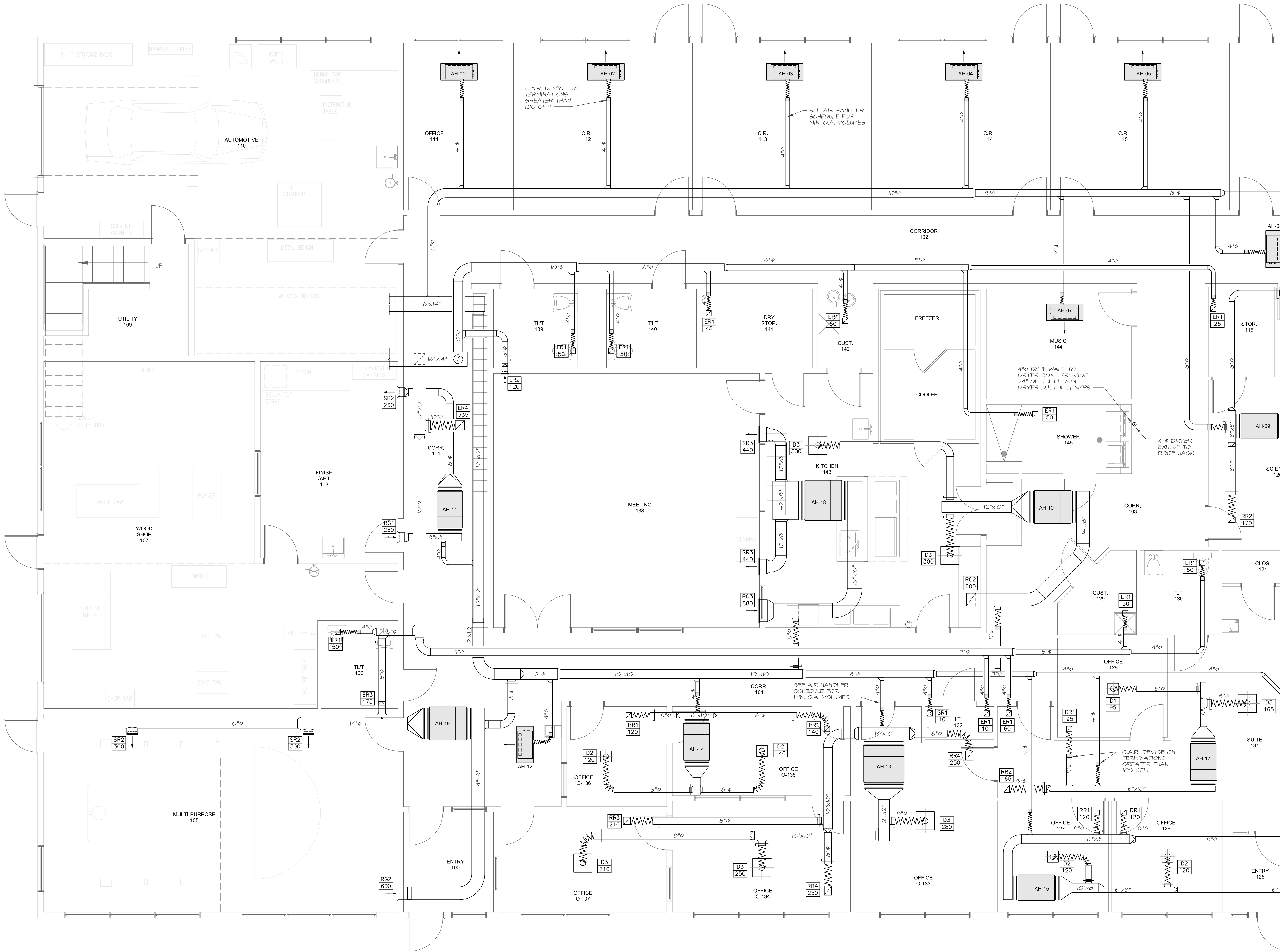
project name: SPAULDING EDUCATIONAL ALTERNATIVES FACILITIES
project location: 91 ALLEN STREET BARRE, VERMONT
client: DAVID LAURIN ARCHITECTS

project number:	19365
drawn by:	KLA
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scale:	AS NOTED
date:	23 JUNE, 2020
released for:	PROGRESS

sheet description:
FOUNDATION DETAILS

S2.1

June 19, 2020 - 11:03 am
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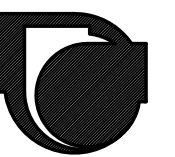
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KEY PLAN:



REVISION	DATE	COMMENTS
01	06/01/2020	Review Plan

PROJECT:
BARRY UNIFIED UNION
SCHOOL DISTRICT
SPAULDING EDUCATIONAL
ALTERNATIVES FACILITIES
91 ALLEN STREET
BARRE, VT. 05641

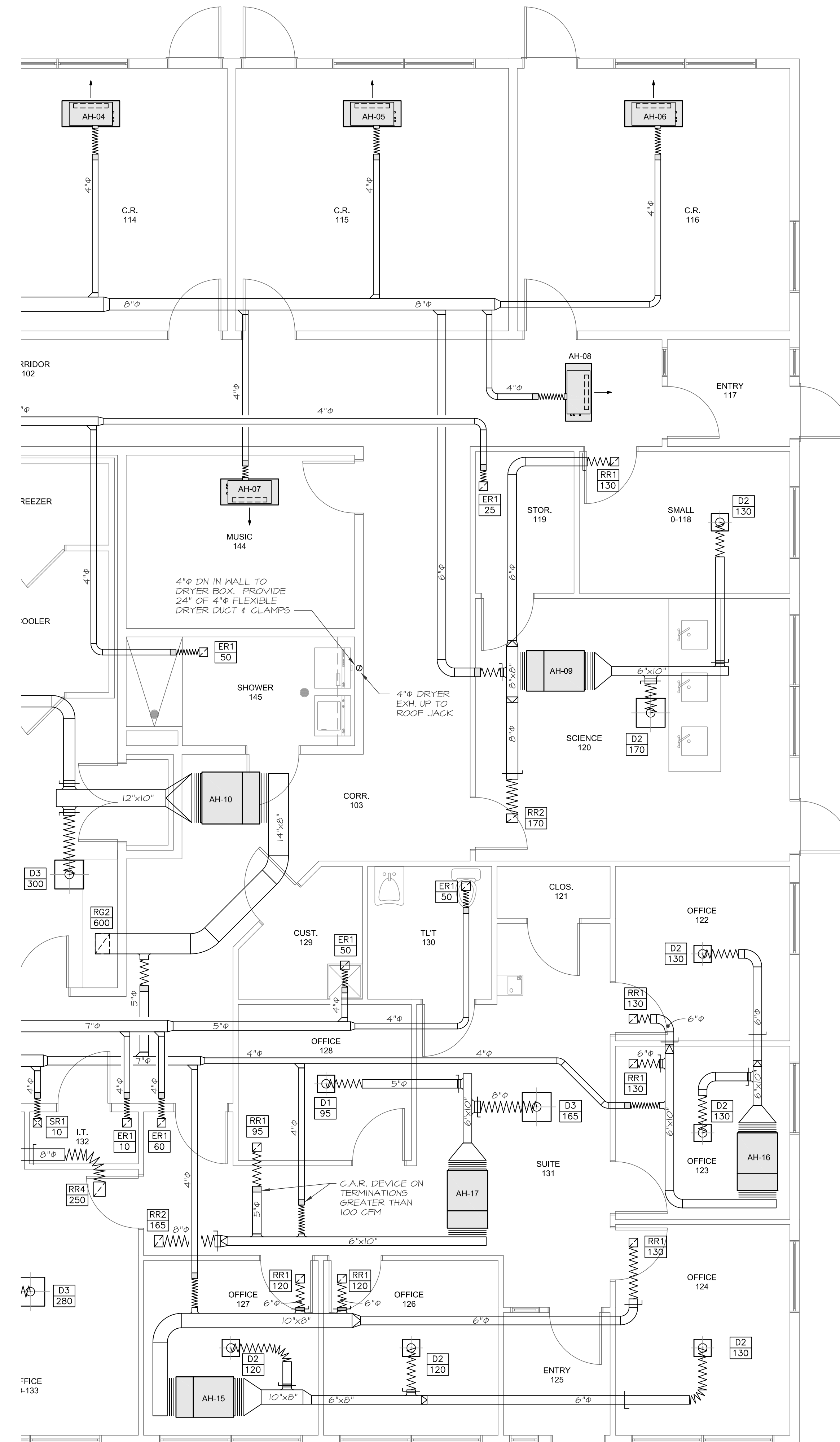
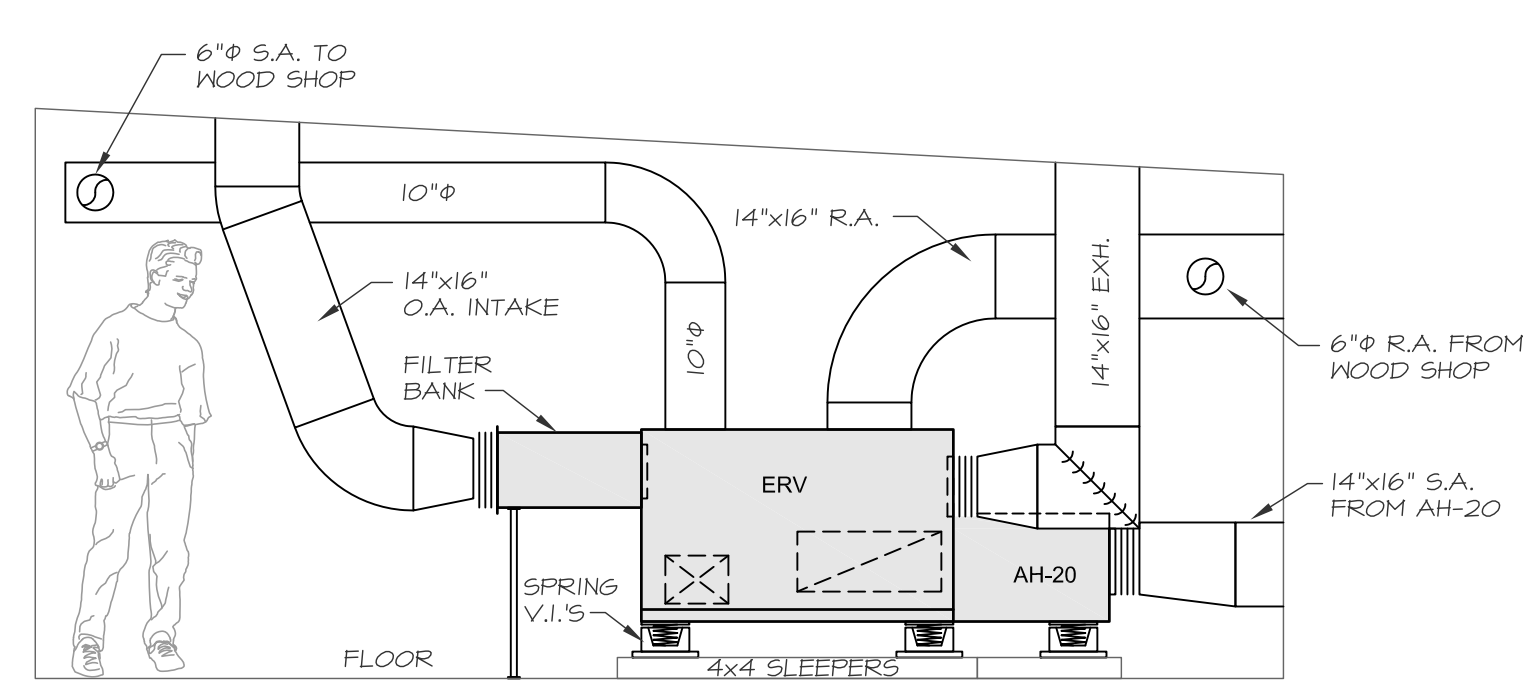
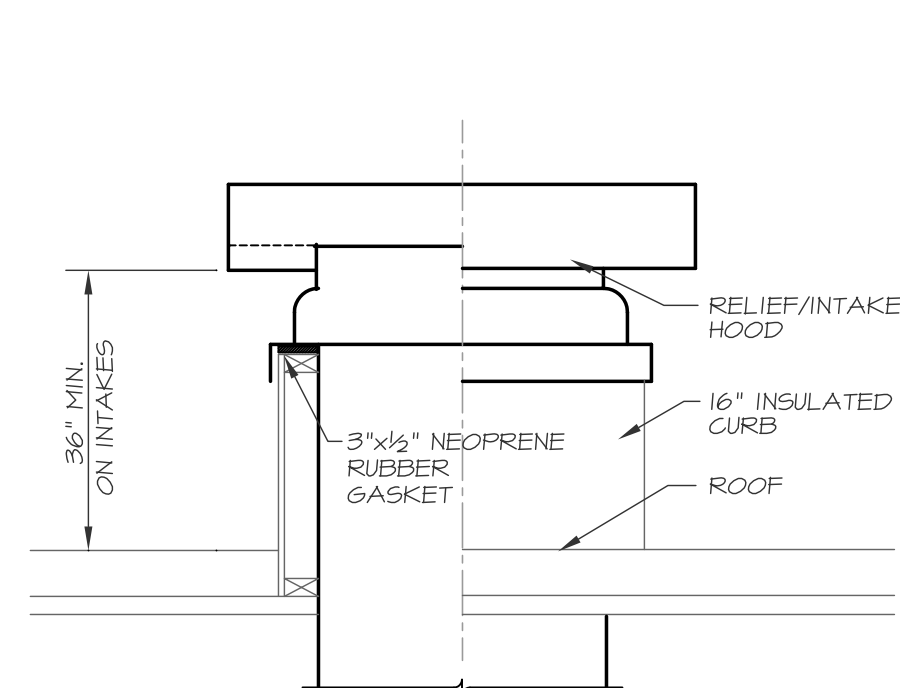
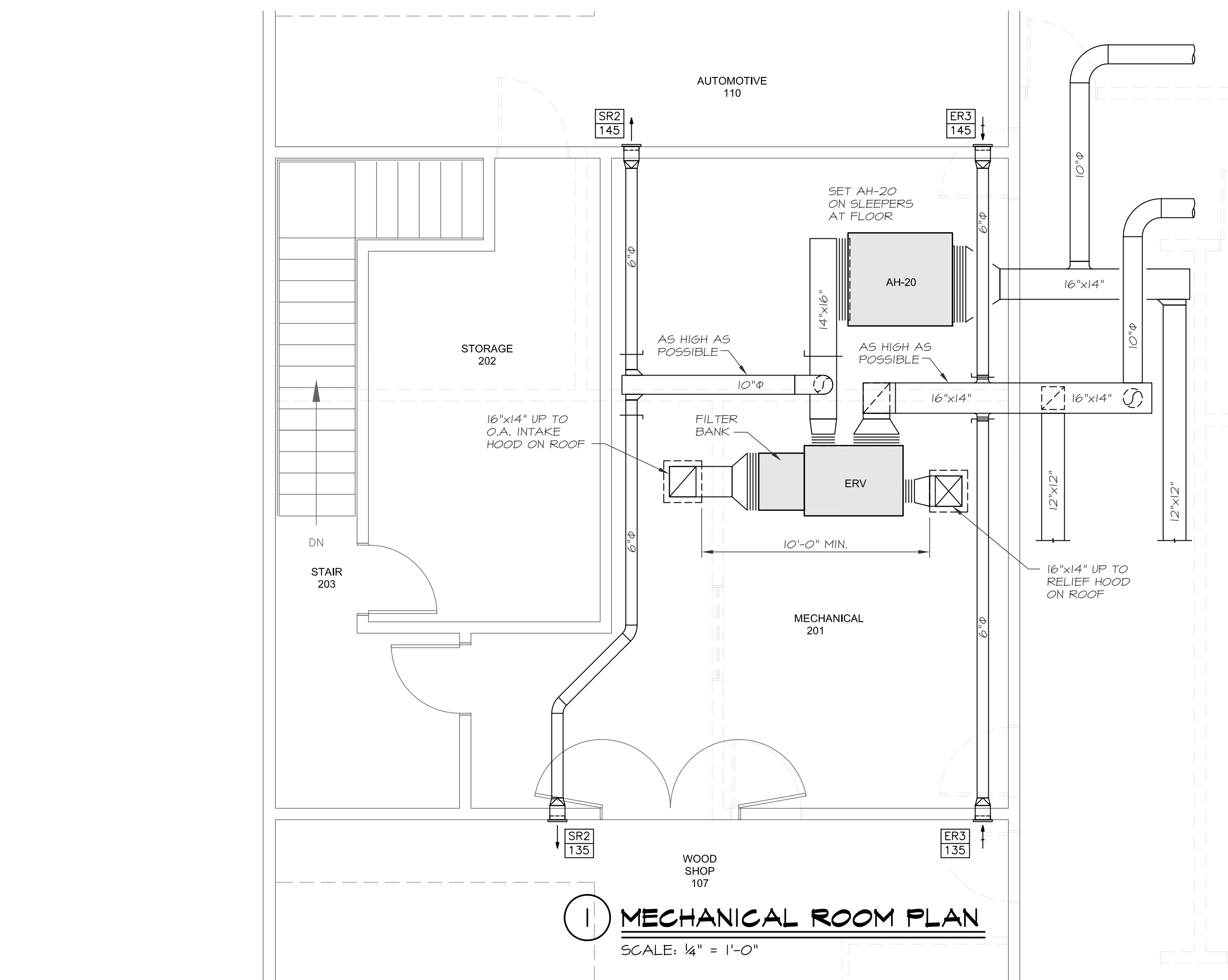
ISSUED: FOR REVIEW

DRAWING TITLE:
MECHANICAL DUCTWORK
PLAN - SOUTH

DATE: 19 . JUNE . 2020

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M1



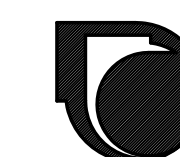
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FACEBOOK: MECHANICAL SYSTEMS ENGINEERS
CELEBRATING 52 YEARS IN BUSINESS
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KEY PLAN

[illegible]

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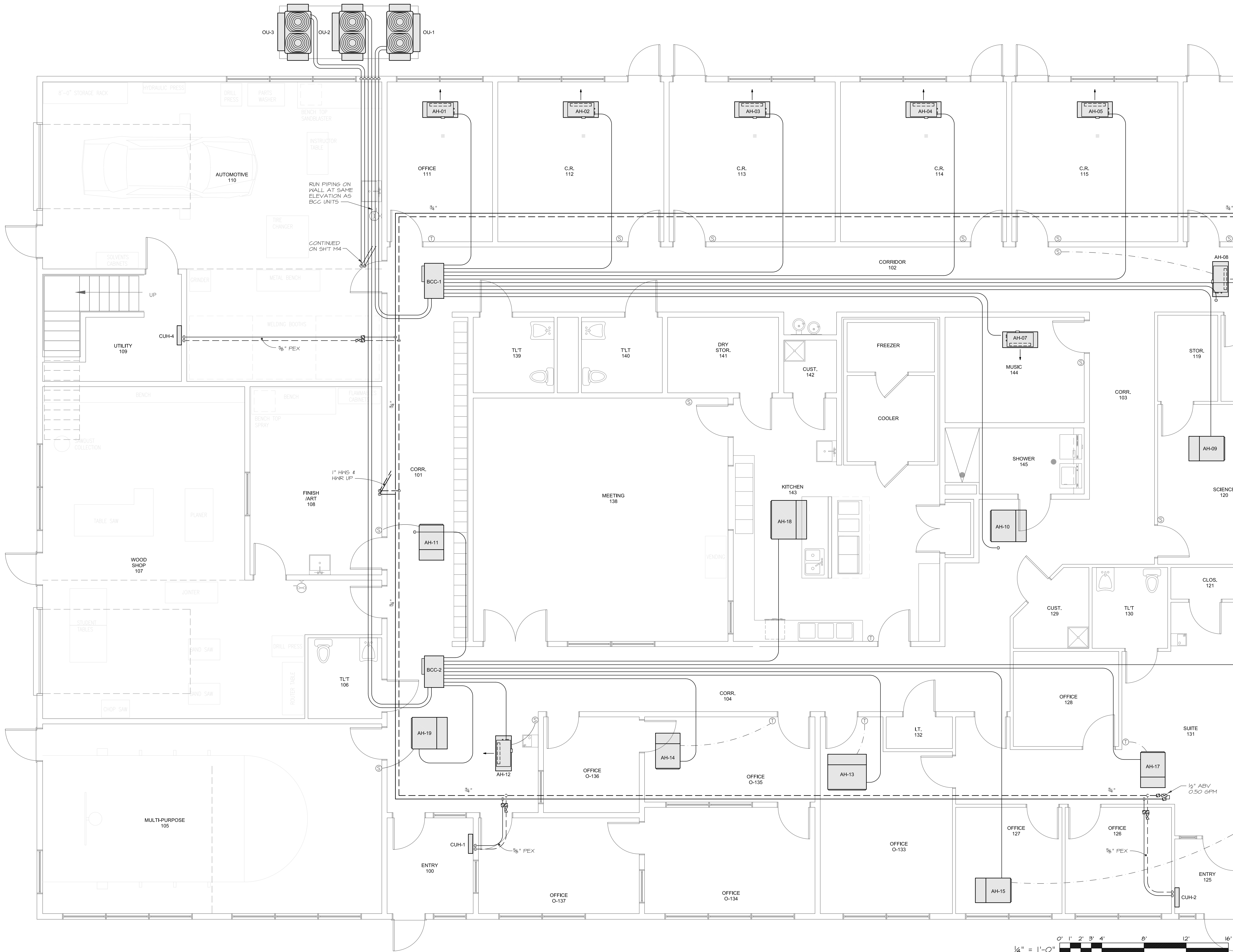
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MECHANICAL DUCTWORK
PLAN - NORTH

DATE: 19 . JUNE . 2020

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M2

June 19, 2020 - 11:02 am
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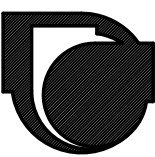
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REVISION	DATE	COMMENTS
01	06/01/2020	Review Plan

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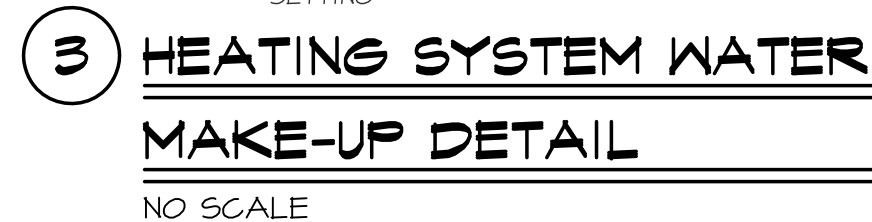
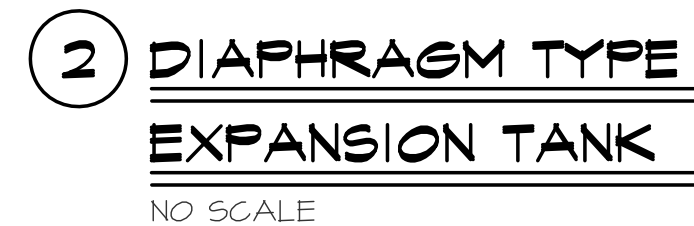
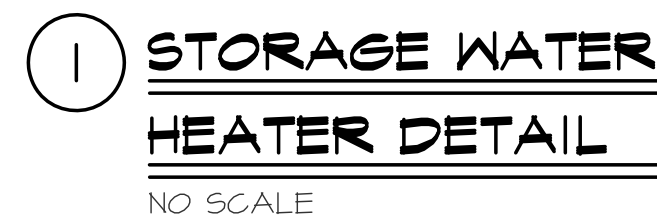
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MECHANICAL PIPING
PLAN - SOUTH

DATE: 19 . JUNE . 2020

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M3

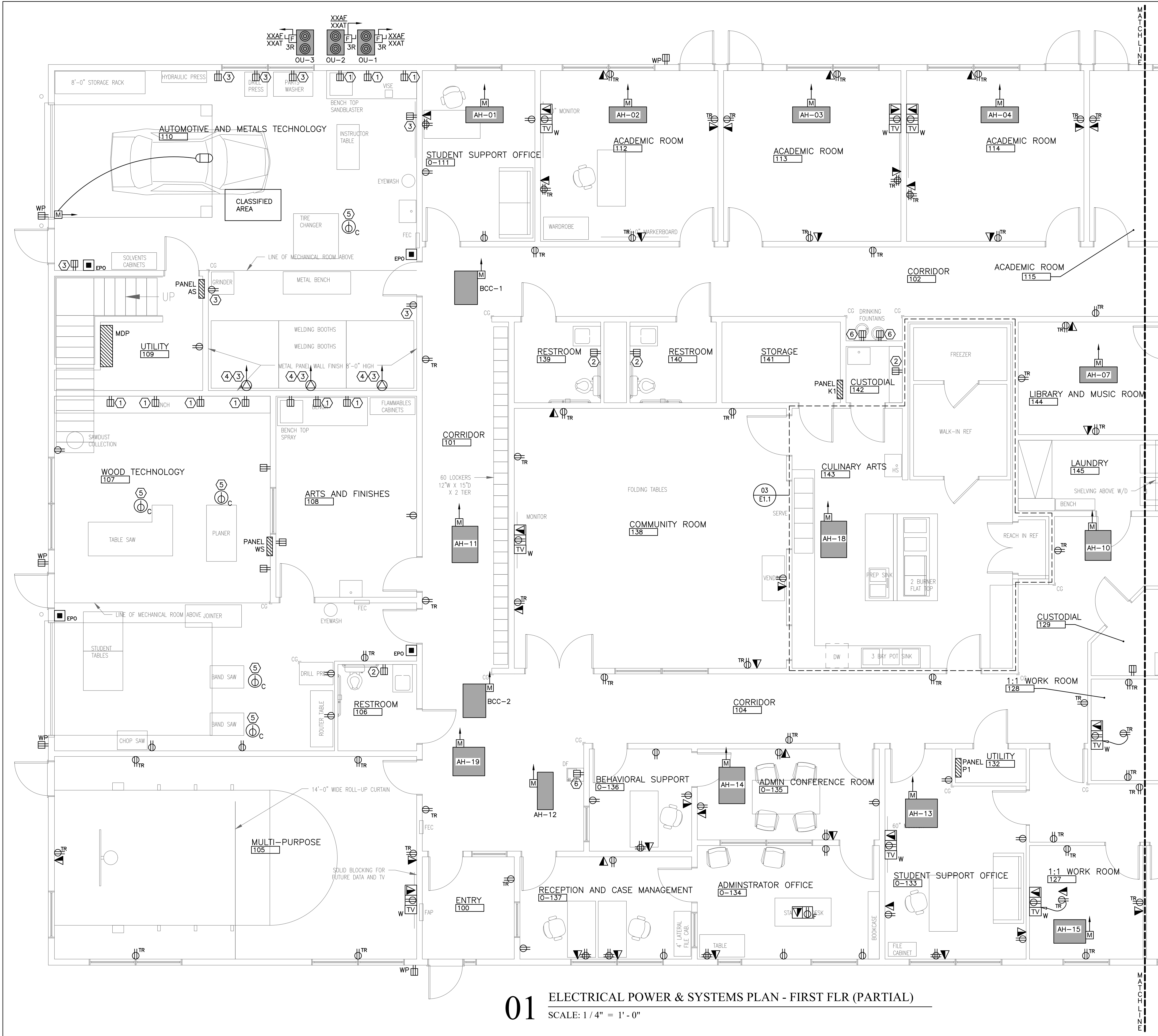




M4



ABBREVIATIONS										POWER SYMBOLS										FIRE ALARM SYMBOLS										LIGHTING SYMBOLS										GENERAL NOTES										DAVID LAURIN ARCHITECT PLLC P.O. BOX 1382 WHITE RIVER JCT., VT 05001 t (802) 295-9263 c (603) 443-3867 david@laurinarch.com																			
A AC AFF AFG AIC AL ASYM ATS AUX AWG BKR C CAB CB CKT CT CU DC DISC EG EH EM EMT EO EPR EQUIP EX FA FC FDR FLUOR FS FVNR FVR GEN GF GFI GND H HOA HP HPS HV HZ IG IMC INCAND JB KCMIL KV KVA KW KWH LPS LTG LSW LV MCB MCC MCP MH EMH MLO MO MOD MTS MV MVA NC NO OH OL OOA OSY P PB PF PH PNL PRI PT PVC RGSC RVSS RSC RVAT S SEC SHLD SW SWBD SYM T TR TBD TD TDR TEL TM UG UT V VA VFD W WH WP XFMR XLP XP										AMPERE ALTERNATING CURRENT ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMPERES INTERRUPTING CAPACITY ALUMINUM ASYMMETRICAL AUTOMATIC TRANSFER SWITCH AUXILIARY AMERICAN WIRE GAUGE BREAKER CONDUIT CABINET CIRCUIT BREAKER CIRCUIT CURRENT TRANSFORMER COPPER DIRECT CURRENT DISCONNECT EQUIPMENT GROUND ELECTRICALLY HELD EMERGENCY ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED ETHYLENE PROPYLENE RUBBER EQUIPMENT EXTERIOR FIRE ALARM FOOT-CANDLE FEEDER FLUORESCENT FLOW SWITCH (FA SYSTEM) FULL VOLTAGE NON REVERSING FULL VOLTAGE REVERSING GENERATOR GROUND FAULT GROUND FAULT CIRCUIT INTERRUPTER GROUND HAND HOLE HAND-OFF-AUTOMATIC HORSE POWER HIGH PRESSURE SODIUM HIGH VOLTAGE HERTZ ISOLATED GROUND INTERMEDIATE METAL CONDUIT INCANDESCENT JUNCTION BOX THOUSAND CIRCULAR MILS KILOVOLT KILO VOLT-AMPERE KILOWATT KILOWATT HOUR LOW PRESSURE SODIUM LIGHTING LIGHT SWITCH LOW VOLTAGE MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTION METAL HALIDE ELECTRICAL MANHOLE MAIN LUGS ONLY MECHANICALLY OPERATED MOTOR OPERATED DAMPER MANUAL TRANSFER SWITCH MERCURY VAPOR MEGAVOLT-AMPERE NORMALLY CLOSED NORMALLY OPENED OVERHEAD OVER LOAD ON-OFF-AUTOMATIC OUTSIDE STEM & YOKE VALVE (FA SYSTEM) POLE PUSH BUTTON POWER FACTOR PHASE PANEL PRIMARY POTENTIAL TRANSFORMER POLYVINYL CHLORIDE RIGID GALVANIZED STEEL CONDUIT REDUCED VOLTAGE SOLID STATE RIGID STEEL CONDUIT REDUCED VOLTAGE AUTO TRANSFORMER SIGNAL SECONDARY SHIELDED CABLE SWITCH SWITCHBOARD SYMMETRICAL TELEPHONE TRANSFORMER TO BE DETERMINED TELEDIALER TIME DELAY RELAY TELEPHONE TELEMETRY UNDERGROUND UTILITY VOLT VOLT-AMPERE VARIABLE FREQUENCY DRIVE WATT WATT HOUR WEATHERPROOF TRANSFORMER CROSS LINKED POLYETHYLENE EXPLOSION PROOF										CIRCUIT BREAKER GROUND CONNECTION HOME RUN TO PANEL (CKT. NO. AS SHOWN) TRANSFORMER CURRENT TRANSFORMER POTENTIAL TRANSFORMER 20 AMPERE, 120 VOLT DUPLEX RECEPTACLE, +18" AFF 20 AMPERE, 120 VOLT DOUBLE DUPLEX RECEPTACLE, +18" AFF 20 AMPERE, 120 VOLT SINGLE RECEPTACLE 20 AMPERE, 120 VOLT DUPLEX GFCI RECEPTACLE, +18" AFF OTHER POWER RECEPTACLE NEMA DESIGNATION AS NOTED MOTOR JUNCTION BOX POWER POLE CONNECTION TO MODULAR FURNITURE WHIP TRANSFORMER CIRCUIT BREAKER SIZED AS NOTED ELECTRICAL PANEL BUS DUCT AMPERE RATING AS NOTED FLOOR RECEPTACLE CONDUIT INSTALLED IN SLAB RECEPTACLE/DATA BOX F = FLOOR MOUNTED W = WALL MOUNTED UNFUSED SAFETY SWITCH, RATING AS NOTED POLES AMPERES FUSED SAFETY SWITCH, RATING AS NOTED FRAMESIZE FUSE/TRIP NEMA RATING MAGNETIC MOTOR STARTER, RATING AS NOTED MANUAL TOGGLE OPERATED MOTOR STARTER SMOKE DAMPER TOGGLE ELECTRIC ACTUATED VALVE MOTOR CONTACTOR CONTACT NORMALLY OPEN CONTACT NORMALLY CLOSED SELECTOR SWITCH TEMPERATURE SWITCH PILOT LIGHT										PULL STATION FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE (GENERAL EVACUATION) STROBE UNIT XX= CANDELA NON-SYSTEM STROBE UNIT LOW FREQUENCY MINI HORN UNIT SMOKE DETECTOR FIXED TEMP HEAT DETECTOR (135F OR 200F) FIRE ALARM CONTROL PANEL VOICE EVACUATION SYSTEM COMMAND PANEL ANNUNCIATOR DIGITAL COMMUNICATOR MASTER BOX DUCT SMOKE DETECTOR REMOTE TEST STATION SPRINKLER TAMPER SWITCH SPRINKLER FLOW SWITCH SPRINKLER PRESSURE SWITCH MONITOR MODULE CONTROL MODULE NON-SYSTEM SMOKE DETECTOR STR = DENOTES INTEGRAL STROBE FOR H/C UNITS RED MASTER BOX LIGHT KNOX BOX, FBO HOOD EXT SYSTEM DOOR HOLDER SIGNAL POWER EXTENDER TELEPHONE SYSTEM WALL JACK COMBINATION VOICE/DATA SYSTEM OUTLET COMBINATION VOICE/DATA SYSTEM OUTLET IN FLOOR BOX. FURNISH 1" CONDUIT IN SLAB CEILING MOUNTED JACK FOR WIRELESS ACCESS POINT. CATV JACK SECURITY SYSTEM DOOR SWITCH ELECTRIC DOOR LOCK SET SECURITY SYSTEM CARD ACCESS PAD INTERCOM SYSTEM SPEAKER INTERCOM MASTER STATION CABLE TRAY PUSH BUTTON DOOR BELL CARD READER CAMERA 4D = 4 CAMERA DOME AUTOMATIC DOOR OPENER REQUEST TO EXIT ELECTRIC STRIKE										LIGHT FIXTURE LIGHT FIXTURE W/ EMERGENCY BATTERY BALLAST WALL MOUNTED LIGHT FIXTURE PENDANT MOUNTED LIGHT FIXTURE STRIP/WRAP LIGHT FIXTURE EXTERIOR WALL-PACK ROUND RECESSED CEILING MOUNTED FIXTURE SURFACE MOUNTED FIXTURE WALL MOUNTED LIGHTING FIXTURE WALL SCONCE TRACK LIGHTING FIXTURE (TRACK MOUNTED FIXTURE TYPE MAY VARY) EMERGENCY LED EXIT SIGN COMBINATION EMERGENCY EXIT SIGN & LIGHTING FIXTURE WITH DUAL LAMPS HEADS BATTERY AND CHARGER EMERGENCY LIGHTING FIXTURE WITH DUAL LAMPS HEADS BATTERY AND CHARGER REMOTE EMERGENCY LIGHTING LAMP HEAD WATER PROOF LIGHT SWITCH DENOTES FIXTURE SWITCHED D = DIMMER (WHERE NOTED) 3 = 3-WAY (WHERE NOTED) 4 = 4-WAY (WHERE NOTED) P = PILOT LIGHT (WHERE NOTED) T = TIMER SWITCH LOW VOLTAGE LIGHT SWITCH ULTRASONIC/INFRARED OCCUPANCY SENSOR C = CEILING MOUNTED W = WALL MOUNTED 48" AFF (TO TOP) TIME CLOCK LIGHTING CONTACTOR PHOTOCELL										1. ALL WORK SHALL BE IN COMPLIANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE. 2. ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE FURNISHED BY DIVISION 16000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE). 3. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH A UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION. 4. LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE, 120 VOLT, SIDE WIRED AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL. 5. CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE UNLESS SHOWN OTHERWISE, GROUNDING TYPE, NEMA 5-20R, SIDE WIRED, AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL. 6. DEVICE COVERPLATES SHALL BE THERMOPLASTIC NYLON TYPE WITH IVORY FINISH IN ALL FINISHED SPACES. MECHANICAL ROOMS, ELECTRICAL ROOM, AND UTILITY ROOMS SHALL BE FURNISHED WITH BRUSHED STAINLESS STEEL COVERPLATES. 7. UNLESS OTHERWISE NOTED ALL HOMERUNS FOR 15 OR 20A CIRCUITS SHALL BE 2#12AWG & #12GND. HOMERUNS FED FROM 20A, 1P CIRCUITS IN EXCESS OF 100 FEET (FOR 120V CIRCUITS) SHALL BE #10AWG. ALL WIRING SHALL BE COPPER. 8. CONDUIT SYSTEMS: EXPOSED INTERIOR CONDUITS SHALL BE EMT, 3/4" MINIMUM. PROPERLY SUPPORTED MC CABLE ASSEMBLIES MAY BE USED ABOVE CEILINGS AND IN WALLS. FLEXIBLE LIQUIDTIGHT CONDUIT WHIPS SHALL BE USED FOR CONNECTION TO VIBRATING EQUIPMENT IN THE MECHANICAL ROOM. 9. MOUNTING HEIGHTS FOR EQUIPMENT SHALL BE AS FOLLOWS: CONVENIENCE RECEPTACLES: 18" AFF TO BOTTOM OF BOX LIGHTING TOGGLE SWITCHES: 48" AFF TO TOP OF BOX UNIT LOAD CENTERS: SUCH THAT HIGHEST BREAKER SWITCH DOES NOT EXCEED 48" AFF UNIT INTERCOM: 48" TO TOP OF BOX. FIRE ALARM AUDIO/VISUAL DEVICES: 80" AFF OR 6" BELOW CEILING TO TOP OF DEVICE. FIRE ALARM PULL STATIONS: 48" TO TOP OF BOX.										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KEY PLAN:																				REVISION										DATE										COMMENTS																													
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NOTES:

- SEE E0.0 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- NOTE THAT GARAGE AREA IS CLASSIFIED CLASS 1 DIVISION 2 EXPLOSION PROOF FROM FLOOR TO 24" AFF. ALL POWER WIRING TO BE ROUTED FROM CEILING. NO UNDERSLAB CONDUITS IN THIS AREA.

KEYED NOTES:

- MOUNT 6" ABOVE COUNTERTOP COORDINATE WITH BACKPLASH.
- MOUNT 42" AFF.
- MOUNT RECEPTACLE 30" AFF FEED FROM TOP.
- WELDING RECEPTACLE.
- RETRACTABLE CORD REEL TYPE RECETPACLE FOR EQUIPMENT.
- DRINKING FOUNTAIN. COORDINATE RECEPTACLE LOCATION WITH MANUFACTURER.

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KEY PLAN:

NORTH

REVISION	DATE	COMMENTS

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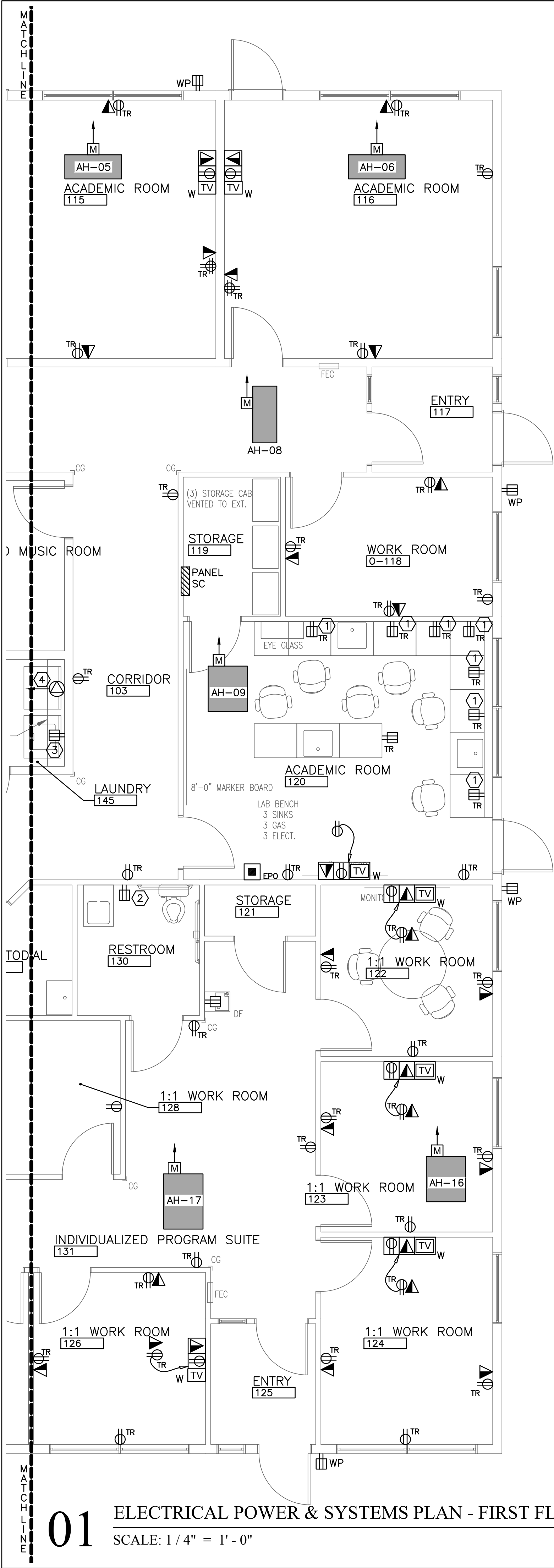
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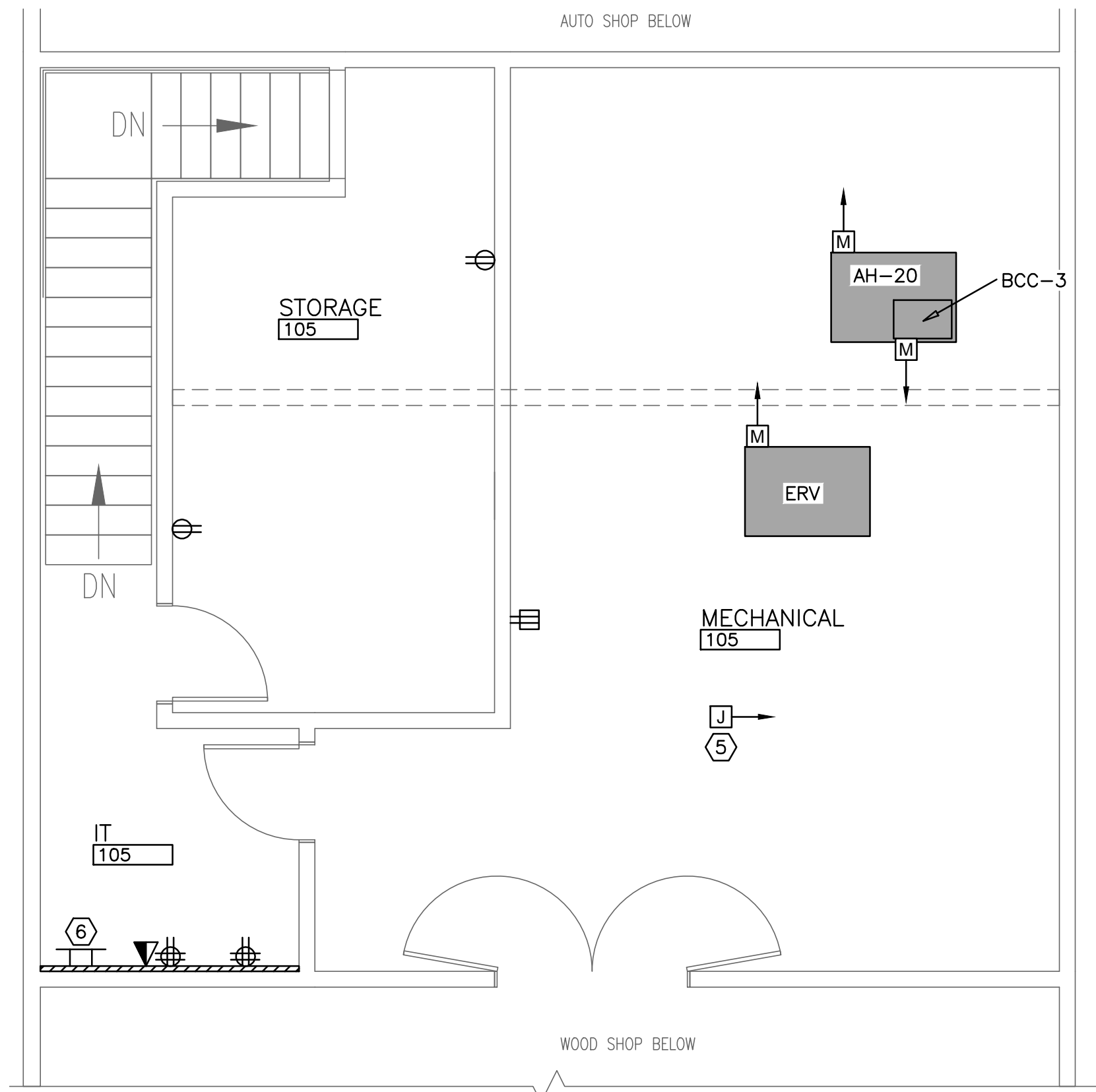
**ELECTRICAL POWER &
SYSTEMS PLAN - FIRST
FLOOR**

DATE: 19 JUNE 2020

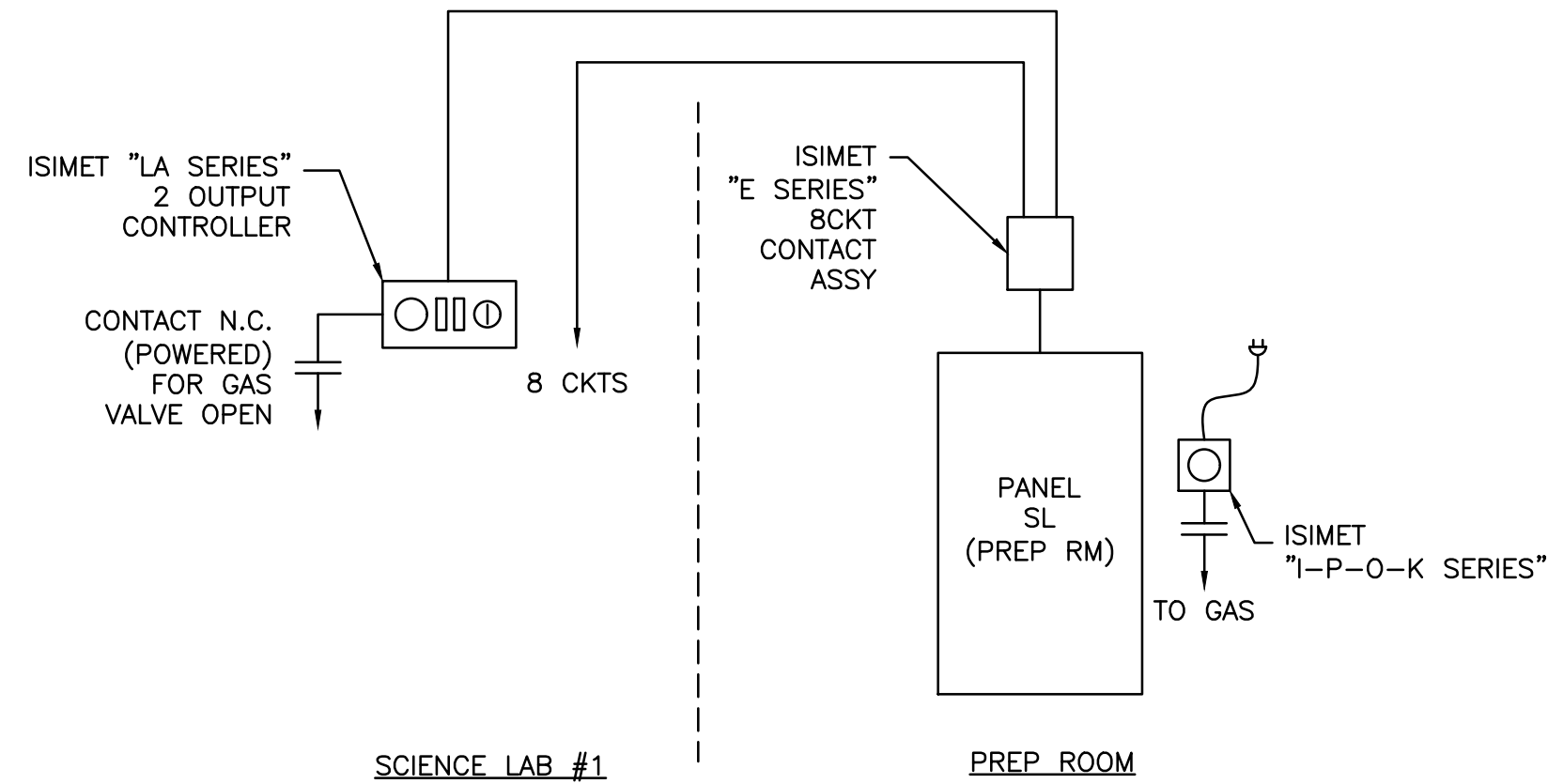
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01 ELECTRICAL POWER & SYSTEMS PLAN - FIRST FLR (PARTIAL)
SCALE: 1 / 4" = 1' - 0"



02 ELECTRICAL POWER & SYSTEMS PLAN - SECOND FLR
SCALE: 1 / 4" = 1' - 0"



03 SCIENCE LAB - EMERGENCY SYSTEM SHUTOFF
NOT TO SCALE

NOTES:

1. SEE E0.0 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

KEYED NOTES:

- ① MOUNT 6" ABOVE COUNTERTOP COORDINATE WITH BACKPLASH.
- ② MOUNT 42" AFF.
- ③ WASHER.
- ④ DRYER.
- ⑤ MECHANICAL CONTROLS.
- ⑥ GROUND BAR.

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KEY PLAN:



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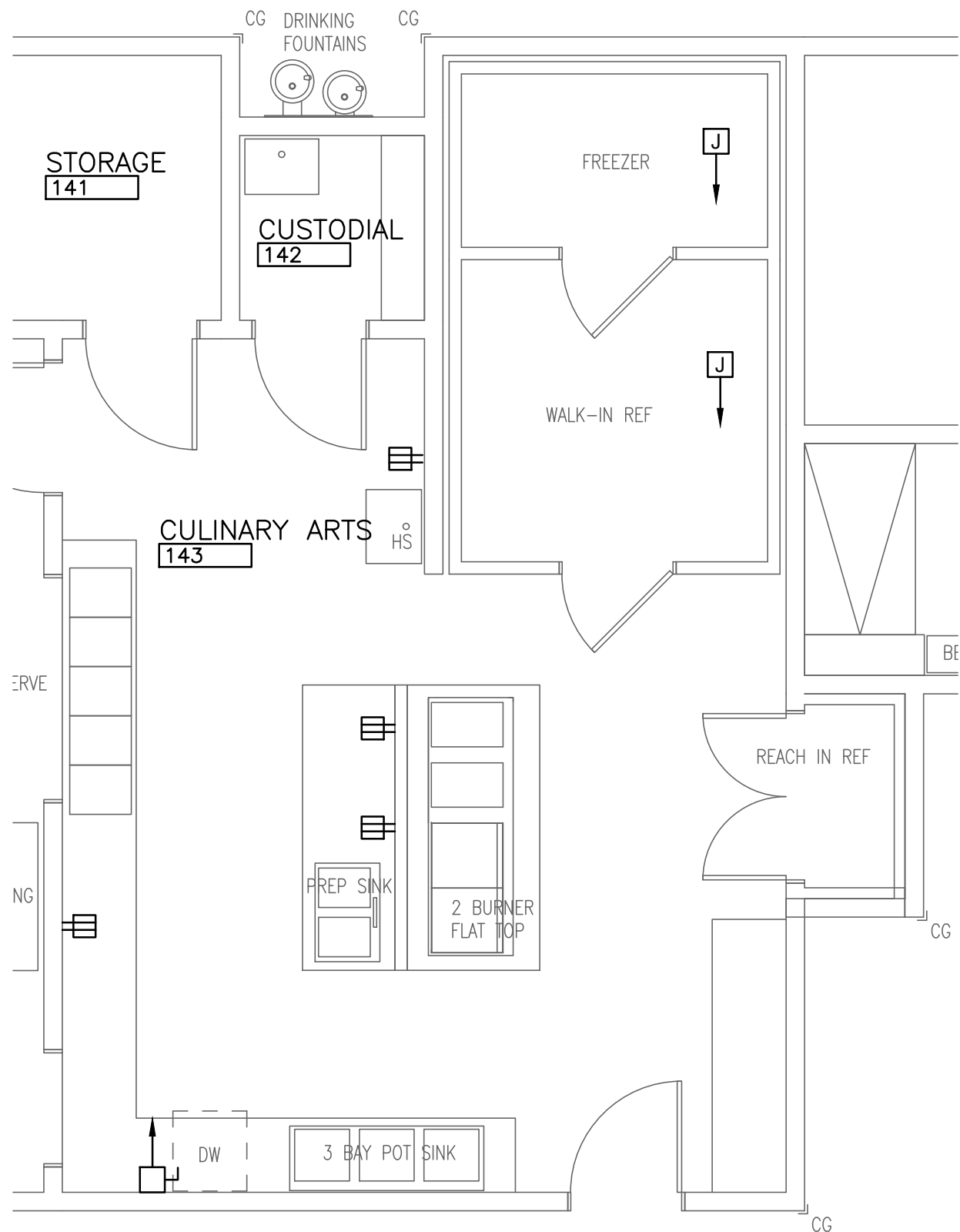
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**ELECTRICAL POWER &
SYSTEMS PLAN - FIRST FLR
PARTIAL & SECOND FLR**

DATE: 19 JUNE 2020

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E1.1



01 CULINARY ARTS DETAIL
NOT TO SCALE

DIRECTORY	KVA LOAD			CKT #	BKG AMPS	PHASE	BKG AMPS	CKT #	KVA LOAD			DIRECTORY
	A	B	C						A	B	C	
SPARE	*			1	20	A	20	2	*			SPARE
SPARE		*		3	20	B	20	4		*		SPARE
SPARE			*	5	20	C	20	6			*	SPARE
SPARE	*			7	20	A	20	8	*			SPARE
SPARE		*		9	20	B	20	10		*		SPARE
SPARE			*	11	20	C	20	12			*	SPARE
SPARE	*			13	20	A	20	14	*			SPARE
SPARE		*		15	20	B	20	16		*		SPARE
SPARE			*	17	20	C	20	18			*	SPARE
SPARE	*			19	20	A	20	20	*			SPARE
SPARE		*		21	20	B	20	22		*		SPARE
SPARE			*	23	20	C	20	24			*	SPARE
SPARE	*			25	20	A	20	26	*			SPARE
SPARE		*		27	20	B	20	28		*		SPARE
SPARE			*	29	20	C	20	30			*	SPARE
SPARE	*			31	20	A	20	32	*			SPARE
SPARE		*		33	20	B	20	34		*		SPARE
SPARE			*	35	20	C	20	36			*	SPARE
SPARE	*			37	20	A	20	38	*			SPARE
SPARE		*		39	20	B	20	40		*		SPARE
SPARE			*	41	20	C	20	42			*	SPARE
SPARE	*			43	20	A	20	44	*			SPARE
SPARE		*		45	20	B	20	46		*		SPARE
SPARE			*	47	20	C	20	48			*	SPARE
SUBTOTAL	###	###	###						###	###	###	SUBTOTAL
VOLTAGE: 120/208V		PHASE: 3		POLES: 4		TOTAL KVA A-PHASE			###		PANEL	K1
MAIN LUGS ONLY		BUS AMPS: 200A		TOTAL KVA B-PHASE			###					
MOUNTING: *****				TOTAL KVA C-PHASE			###		LOCATION	KITCHEN		
SHORT CIRCUIT RATING: *KAIC				TOTAL KVA			###					
NOTES:												

04 KITCHEN PANEL SCHEDULE
NOT TO SCALE

NOTES:

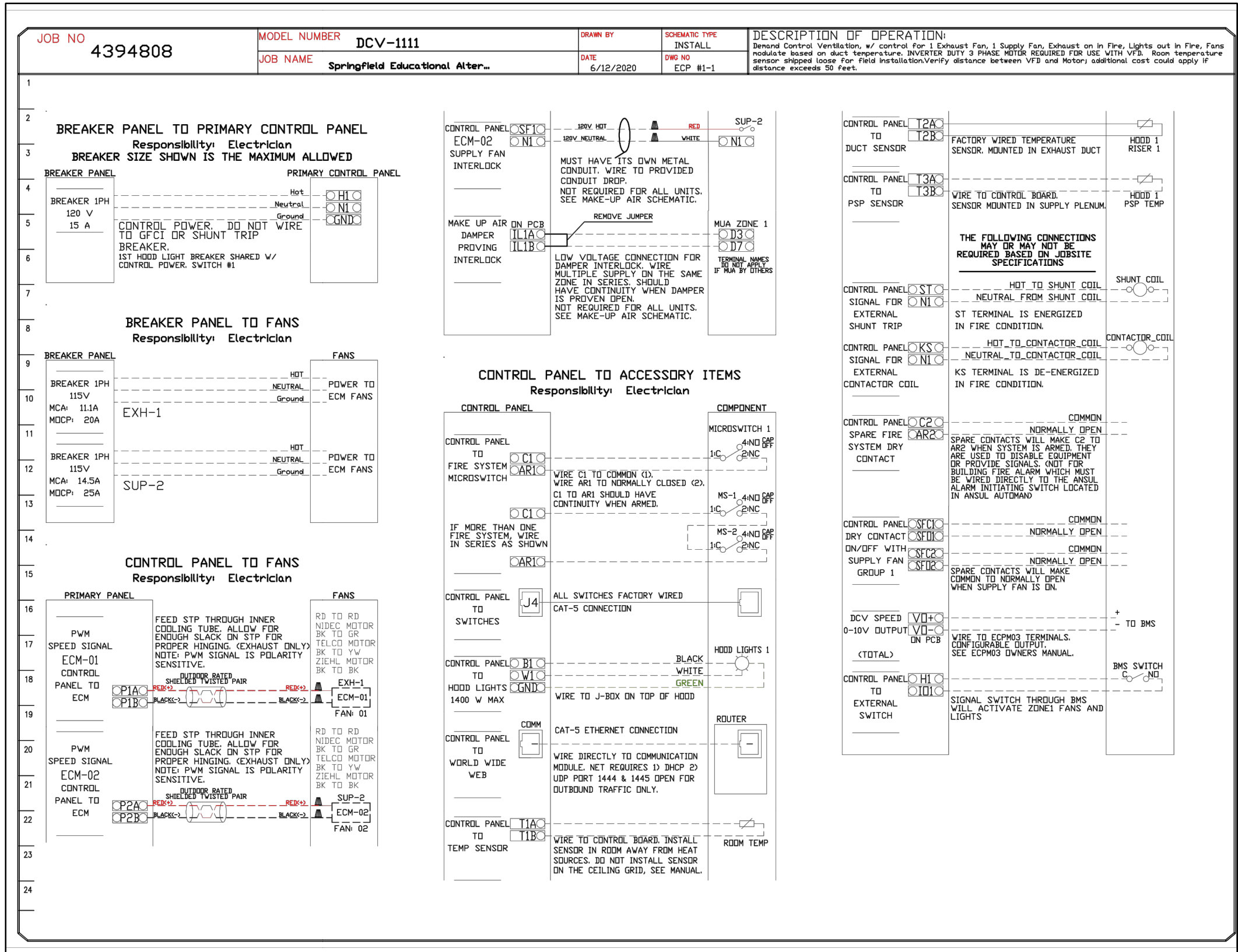
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KEYED NOTES:

- MOUNT 6" ABOVE COUNTERTOP COORDINATE WITH BACKPLASH.
- MOUNT 42" AFF.
- WASHER.
- DRYER.
- MECHANICAL CONTROLS.
- GROUND BAR.

KITCHEN EQUIPMENT												
TAG	EQUIPMENT	AMP	KW	HP	VOLTS	PH	DIRECT	PLUG	NEMA	AFF (INCHES)	WIRING	NOTES
1												
2												
3												
4												
5												
6												
7												
8												
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10												
11												
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21												
22												

02 KITCHEN EQUIPMENT SCHEDULE
NOT TO SCALE



04 KITCHEN HOOD WIRING DETAIL
NOT TO SCALE

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**ELECTRICAL KITCHEN PLAN
AND SCHEDULES**

DATE: 19 JUNE 2020

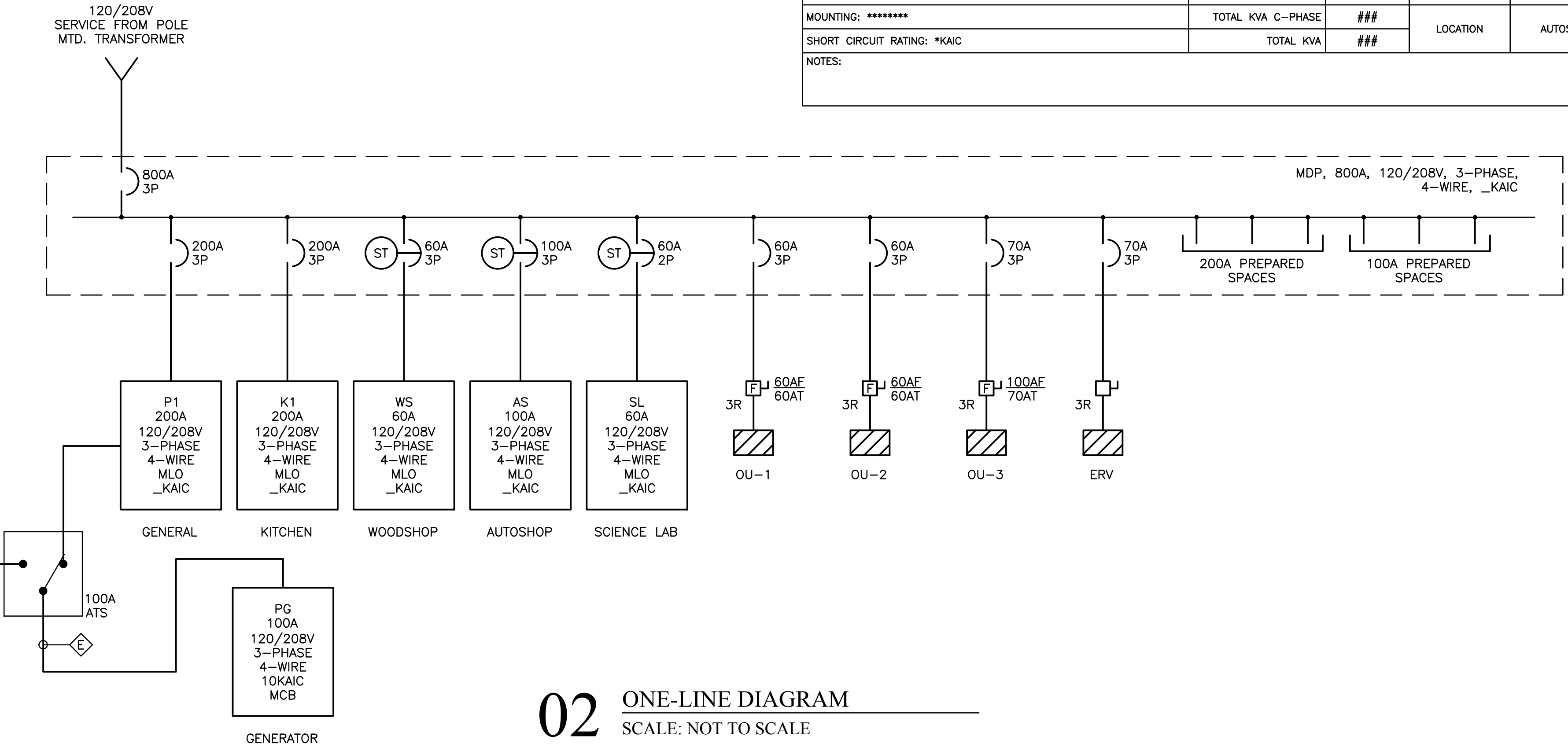
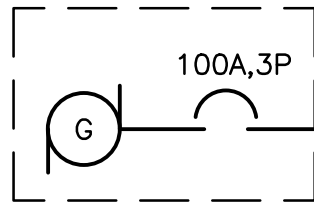
SHEET NUMBER:

E1.2

DIRECTORY	KVA LOAD			CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD			DIRECTORY	
	A	B	C						A	B	C		
SPARE	*			1	20	A	20	2	*			SPARE	
SPARE		*		3	20	B	20	4		*		SPARE	
SPARE			*	5	20	C	20	6			*	SPARE	
SPARE	*			7	20	A	20	8	*			SPARE	
SPARE		*		9	20	B	20	10		*		SPARE	
SPARE			*	11	20	C	20	12			*	SPARE	
SPARE	*			13	20	A	20	14	*			SPARE	
SPARE		*		15	20	B	20	16		*		SPARE	
SPARE			*	17	20	C	20	18			*	SPARE	
SPARE	*			19	20	A	20	20	*			SPARE	
SPARE		*		21	20	B	20	22		*		SPARE	
SPARE			*	23	20	C	20	24			*	SPARE	
SPARE	*			25	20	A	20	26	*			SPARE	
SPARE		*		27	20	B	20	28		*		SPARE	
SPARE			*	29	20	C	20	30			*	SPARE	
SPARE	*			31	20	A	20	32	*			SPARE	
SPARE		*		33	20	B	20	34		*		SPARE	
SPARE			*	35	20	C	20	36			*	SPARE	
SPARE	*			37	20	A	20	38	*			SPARE	
SPARE		*		39	20	B	20	40		*		SPARE	
SPARE			*	41	20	C	20	42			*	SPARE	
SPARE	*			43	20	A	20	44	*			SPARE	
SPARE		*		45	20	B	20	46		*		SPARE	
SPARE			*	47	20	C	20	48			*	SPARE	
SPARE	*			49	20	A	20	50	*			SPARE	
SPARE		*		51	20	B	20	52		*		SPARE	
SPARE			*	53	20	C	20	54			*	SPARE	
SPARE	*			55	20	A	20	56	*			SPARE	
SPARE		*		57	20	B	20	58		*		SPARE	
SPARE			*	59	20	C	20	60			*	SPARE	
SPARE	*			61	20	A	20	62	*			SPARE	
SPARE		*		63	20	B	20	64		*		SPARE	
SPARE			*	65	20	C	20	66			*	SPARE	
SPARE	*			67	20	A	20	68	*			SPARE	
SPARE		*		69	20	B	20	70		*		SPARE	
SPARE			*	71	20	C	20	72			*	SPARE	
SUBTOTAL	###	###	###						###	###	###	SUBTOTAL	
VOLTAGE: 120/208V				PHASE: 3		POLES: 4		TOTAL KVA A-PHASE		###		PANEL	P1
MAIN LUGS ONLY				BUS AMPS: 200A		TOTAL KVA B-PHASE		###					
MOUNTING: *****						TOTAL KVA C-PHASE		###				LOCATION	GENERAL
SHORT CIRCUIT RATING: *KAIC						TOTAL KVA		###					
NOTES:													

DIRECTORY	KVA LOAD		CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD		DIRECTORY			
	A	B						A	B				
SPARE	*		1	20	A	20	2	*		SPARE			
SPARE		*	3	20	B	20	4		*	SPARE			
SPARE	*		5	20	A	20	6	*		SPARE			
SPARE		*	7	20	B	20	8		*	SPARE			
SPARE	*		9	20	A	20	10	*		SPARE			
SPARE		*	11	20	B	20	12		*	SPARE			
SPARE	*		13	20	A	20	14	*		SPARE			
SPARE		*	15	20	B	20	16		*	SPARE			
SPARE	*		17	20	A	20	18	*		SPARE			
SUBTOTAL	###	###						###	###	SUBTOTAL			
VOLTAGE: 120Y/240V			PHASE: 1			POLES: 3			TOTAL KVA A-PHASE		###	PANEL	SL
MAIN BREAKER: 60A			BUS AMPS: 60A			TOTAL KVA B-PHASE			###				
MOUNTING: *****											LOCATION	SCIENCE LAB	
SHORT CIRCUIT RATING: *KAIC						TOTAL KVA			###				
NOTES:													

PROPANE GENERATOR
xxKW/xxKVA
208Y/120V



02 ONE-LINE DIAGRAM

SCALE: NOT TO SCALE

01 PANEL SCHEDULES

SCALE: NOT TO SCALE

- NOTES:
- SEE E0.0 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- KEYED NOTES:
- ① ***

DIRECTORY	KVA LOAD			CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD			DIRECTORY
	A	B	C						A	B	C	
SPARE	*			1	20	A	20	2	*			SPARE
SPARE		*		3	20	B	20	4		*		SPARE
SPARE			*	5	20	C	20	6			*	SPARE
SPARE	*			7	20	A	20	8	*			SPARE
SPARE		*		9	20	B	20	10		*		SPARE
SPARE			*	11	20	C	20	12			*	SPARE
SPARE	*			13	20	A	20	14	*			SPARE
SPARE		*		15	20	B	20	16		*		SPARE
SPARE			*	17	20	C	20	18			*	SPARE
SPARE	*			19	20	A	20	20	*			SPARE
SPARE		*		21	20	B	20	22		*		SPARE
SPARE			*	23	20	C	20	24			*	SPARE
SPARE	*			25	20	A	20	26	*			SPARE
SPARE		*		27	20	B	20	28		*		SPARE
SPARE			*	29	20	C	20	30			*	SPARE
SUBTOTAL	###	###	###						###	###	###	SUBTOTAL
VOLTAGE: 120/208V		PHASE: 3		POLES: 4			TOTAL KVA A-PHASE		###		PANEL	WS
MAIN BREAKER: 60A		BUS AMPS: 60A			TOTAL KVA B-PHASE		###					
MOUNTING: *****							TOTAL KVA C-PHASE		###		LOCATION	WOODSHOP
SHORT CIRCUIT RATING: *KAIC							TOTAL KVA		###			
NOTES:												

DIRECTORY	KVA LOAD			CKT #	BKR AMPS	PHASE	BKR AMPS	CKT #	KVA LOAD			DIRECTORY
	A	B	C						A	B	C	
SPARE	*			1	20	A	20	2	*			SPARE
SPARE		*		3	20	B	20	4		*		SPARE
SPARE			*	5	20	C	20	6			*	SPARE
SPARE	*			7	20	A	20	8	*			SPARE
SPARE		*		9	20	B	20	10		*		SPARE
SPARE			*	11	20	C	20	12			*	SPARE
SPARE	*			13	20	A	20	14	*			SPARE
SPARE		*		15	20	B	20	16		*		SPARE
SPARE			*	17	20	C	20	18			*	SPARE
SPARE	*			19	20	A	20	20	*			SPARE
SPARE		*		21	20	B	20	22		*		SPARE
SPARE			*	23	20	C	20	24			*	SPARE
SPARE	*			25	20	A	20	26	*			SPARE
SPARE		*		27	20	B	20	28		*		SPARE
SPARE			*	29	20	C	20	30			*	SPARE
SUBTOTAL	###	###	###						###	###	###	SUBTOTAL
VOLTAGE: 120/208V		PHASE: 3		POLES: 4			TOTAL KVA A-PHASE		###		PANEL	AS
MAIN BREAKER: 100A				BUS AMPS: 100A			TOTAL KVA B-PHASE		###			
MOUNTING: *****							TOTAL KVA C-PHASE		###		LOCATION	AUTOSHOP
SHORT CIRCUIT RATING: *KAIC							TOTAL KVA		###			
NOTES:												

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KEY PLAN:



REVISION	DATE	COMMENTS

PROJECT:
BARRE UNIFIED UNION
SCHOOL DISTRICT

SPAULDING EDUCATIONAL
ALTERNATIVES FACILITIES

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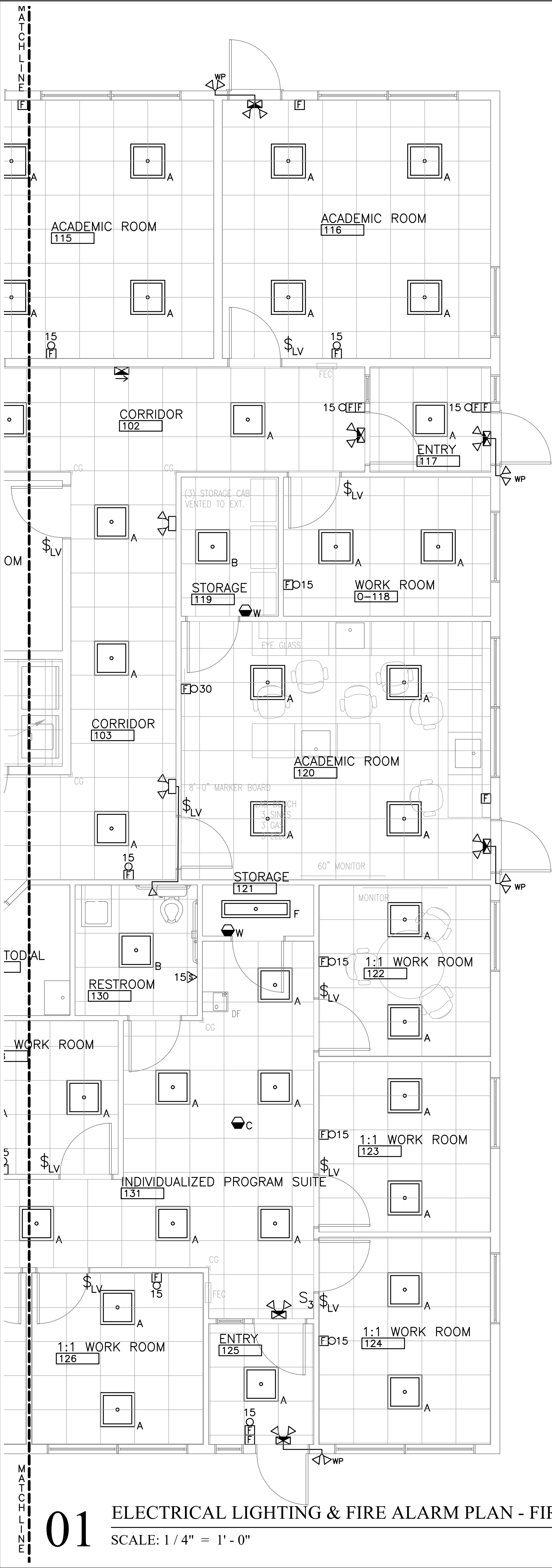
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ELECTRICAL PANEL
SCHEDULES & ONE-LINE
DIAGRAM

DATE: 19 JUNE 2020

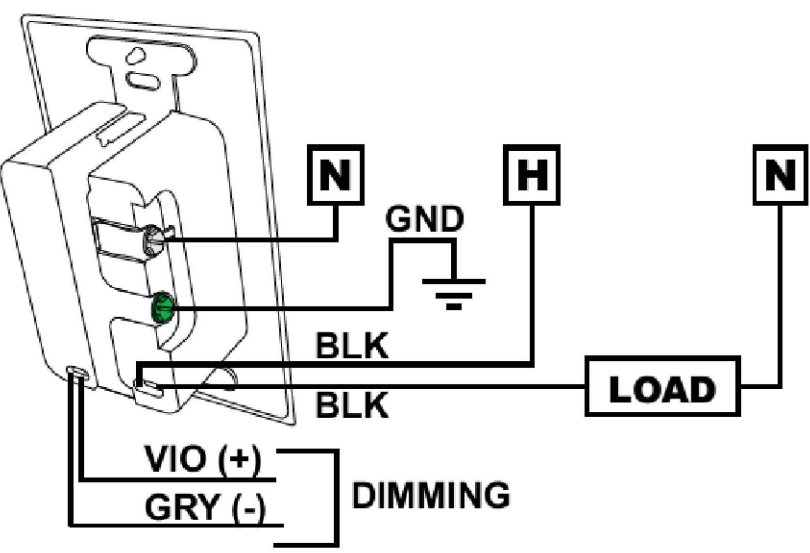
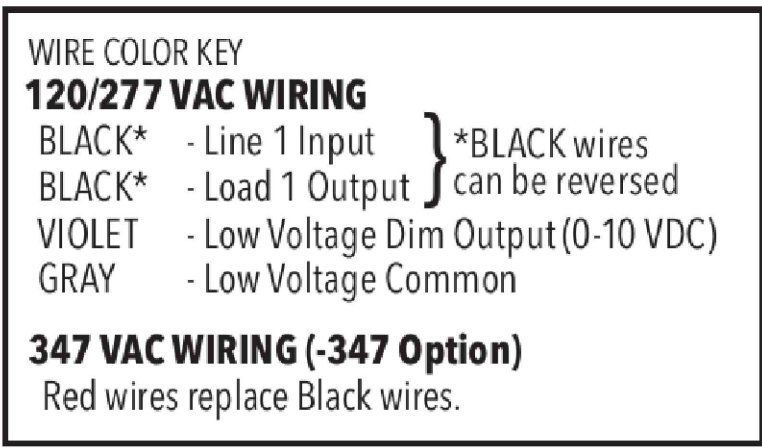
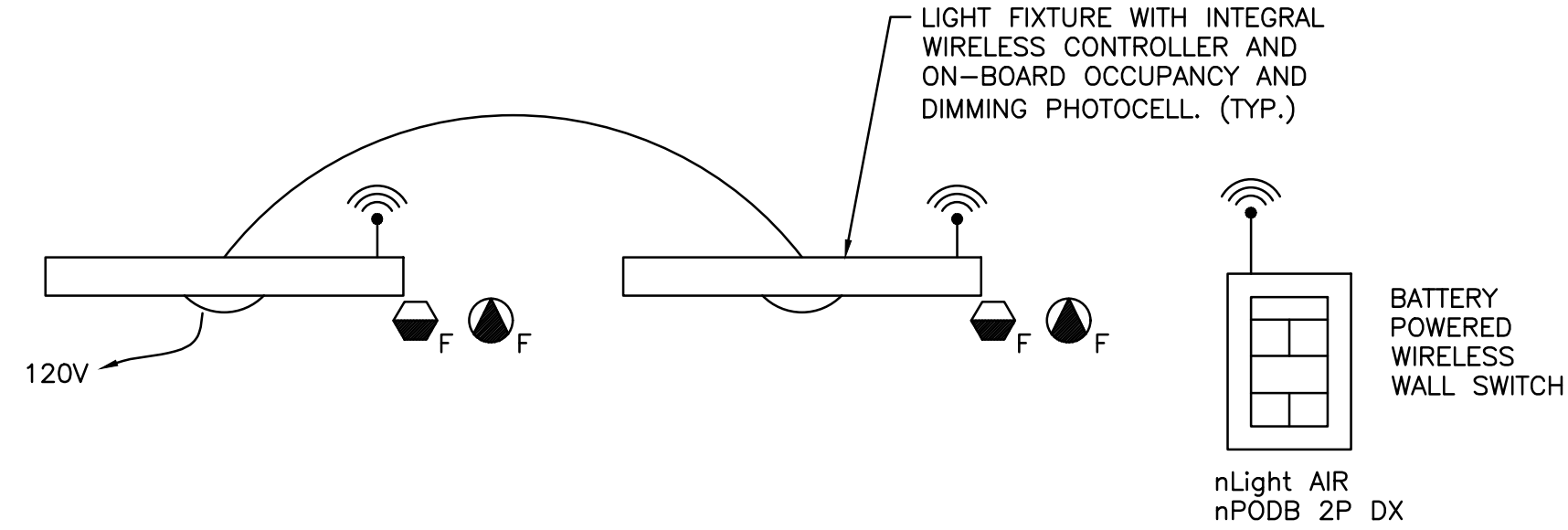
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E1.3



01 ELECTRICAL LIGHTING & FIRE ALARM PLAN - FIRST FLR (PARTIAL)
SCALE: 1 / 4" = 1' - 0"

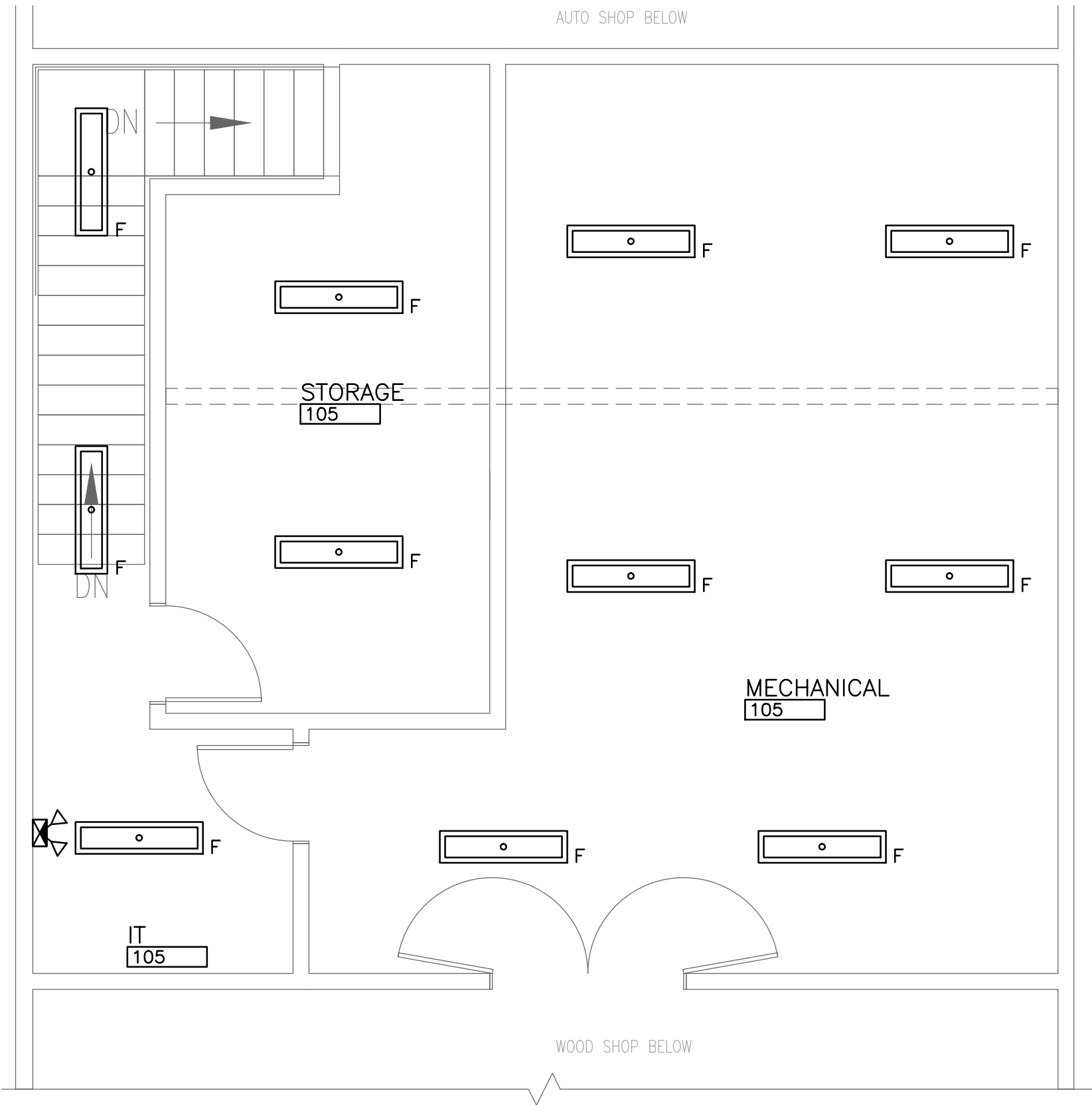
04 LIGHTING CONTROL SYSTEM - CLASSROOM (TYP.)
SCALE: NOT TO SCALE



NOTES:
1. PER NEC REQUIREMENTS, THE 0-10V (VIOLET AND GRAY) WIRES MUST BE INSTALLED AS CLASS ONE.
2. THE 0-10V (VIOLET AND GRAY) WIRES SHALL NOT EXCEED 240' IN LENGTH AND SHALL BE SIZED AS #18AWG.

03 SINGLE POLE DIMMER SWITCH WIRING APPLICATION
SCALE: NOT TO SCALE

05 LIGHTING CONTROL NARRATIVE
SCALE: NOT TO SCALE



02 ELECTRICAL LIGHTING & FIRE ALARM PLAN - SECOND FLR
SCALE: 1 / 4" = 1' - 0"

NOTES:
1. SEE E0.0 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
KEYED NOTES:
① ***

Lighting Control Narrative:

Lighting fixtures in Classrooms, Offices, Gym, Cafeteria, Corridors and fixtures in other rooms shown with integral sensors shall be programmable via wireless device (iPhone or Tablet). Preferred settings/scene designations to be determined, however must meet the following:

A. Classrooms:

- On by switch, off by switch/occupancy sensor
- Lights shall daylight harvest based on ambient light entering the space from the windows.
- Row at the front whiteboard/smartboard shall be separately dimmable from the fixtures over the rest of the class.
- Option to dim all rows of lights at the same level.

B. Corridors:

- Master switches at entries as shown, to be locked out during normal school hours (time clock). Light fixtures forced on during normal hours, dimmed to 50% when no occupancy and on full when occupancy sensed.
- Master switches enabled during non-school hours for on/off operation by switch. Fixtures will also turn on by occupancy sensor, and off either by switch or non occupancy.

C. Offices

- On by dimmable wall switch, off by switch/occupancy sensor
- Lights shall daylight harvest based on ambient light entering the space from the windows (where applicable).

D. Auto Repair, Woodshop, Kitchen

- On by switch, off by switch. As inadvertent automatic operation could cause a dangerous situation.

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KEY PLAN:
NORTH







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PROJECT:
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91 ALLEN STREET
BARRE, VT 05641
ISSUED: ISSUED FOR REVIEW
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DRAWING TITLE:
ELECTRICAL LIGHTING &
FIRE ALARM PLAN - FIRST
FLR PARTIAL & SECOND FLR

DATE: 19 JUNE 2020

SHEET NUMBER:

LIGHTING SCHEDULE

LIGHTING SCHEDULE					
TYPE	DESCRIPTION	MANFACTURER	LAMPS	MOUNTING	NOTES
A	2' X 2' LOW PROFILE HIGH EFFICIENCY LED CENTER BASKET FIXTURE WITH INBOARD WIRELESS DT OCCUPANCY SENSOR & DIMMING PHOTOCELL. 120V	LITHONIA LIGHTING	31W LED 3500K 4063 LUMENS	CEILING GRID	MODEL #: 2BLT2-40LHE-ADPT-120V-EZ1-LP-835-NLTAIR-RES7PDT
B	2' X 2' BACKLIT LED TROFFER 120V	COLUMBIA LIGHTING	30W LED 3500K 3583 LUMENS	CEILING GRID	MODEL #: CBT22-LS35
B2	2' X 4' BACKLIT LED TROFFER 120V	COLUMBIA LIGHTING	39W LED 3500K 4890 LUMENS	CEILING GRID	MODEL #: CBT24-LS35
C	24" LED HIGH BAY FIXTURE 120V	LITHONIA LIGHTING	137W LED 4000K 17762 LUMENS	CEILING HUNG 19'-6"	MODEL #: IBE-L24-18000LM-ATC-MD-MVOLT-GZ-10-40K-80CRI-DWH
D	4' LED SURFACE MOUNT VOLUMETRIC FIXTURE 120V	LITHONIA LIGHTING	35W LED 3500K 3979 LUMENS	CEILING SURFACE	MODEL #: STL4-40L-GZ10-LP840
E	4' X 2" WIDE DIRECT/INDIRECT LED PENDANT WITH SEPARATE D/I DRIVERS. 120V	FINELITE	37W LED 3500K 3596 LUMENS	CEILING HUNG 12' AFF	MODEL #: HP2-P-ID-8-B-B-835-F-F-120-DC-FC10-FA50
F	4' LED STRIP LIGHT WITH ACRYLIC DROP LENS DIFFUSER 120V	LITHONIA LIGHTING	41W LED 3500K 5456 LUMENS	CEILING SURFACE	MODEL #: ZLAD-L48-SMR-5000LM-FST-MVOLT-35K-80CRI-WH
F2	2' LED STRIP LIGHT WITH ACRYLIC DROP LENS DIFFUSER 120V	LITHONIA LIGHTING	22W LED 3500K 2742 LUMENS	CEILING SURFACE	MODEL #: ZLAD-L24-SMR-2500LM-FST-MVOLT-35K-80CRI-WH
*	*** 120V	***	***	***	MODEL #:
S _{LV}	LOW VOLTAGE LIGHTING SWITCH LOW VOLTAGE	nLIGHT	N/A	WALL SURFACE	MODEL #: PODB-2P-DX SEE WIRING DIAGRAM THIS SHEET
 C	CEILING MOUNTED DUAL TECHNOLOGY ULTRASONIC AND PASSIVE INFRARED OCCUPANCY SENSOR 120V	HUBBELL	N/A	CEILING SURFACE	MODEL #: OMNIDT2000 FURNISH RELAYS/POWER PACKS AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION
 W	WALL MOUNT PASSIVE INFRARED OCCUPANCY SENSOR 120V	HUBBELL	N/A	WALL	MODEL #: LHIRS11
	EMERGENCY BATTERY UNIT 120V	DUAL-LITE	2W LED	WALL SURFACE	MODEL #: EV4D-02L
 WP	WEATHER PROOF REMOTE HEAD. WHITE FINISH. 120V	DUAL-LITE	(2) 1W LED	WALL SURFACE	MODEL #: EVO-D-W
	LED EXIT SIGN EMERGENCY BATTERY UNIT COMBINATION WITH REMOTE CAPACITY 120V	DUAL-LITE	(2) 1W LED	CEILING SURFACE	MODEL #: EVCU-R-W-D4
	LED EXIT SIGN EMERGENCY BATTERY UNIT 120V	DUAL-LITE	2W LED	CEILING SURFACE	MODEL #: EVEU-R-W

01 LIGHTING SCHEDULE

SCALE: NOT TO SCALE

NOTES:

1. SEE E0.0 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

KEYED NOTES:

1 ***

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KEY PLAN:

[illegible]

PROJECT:

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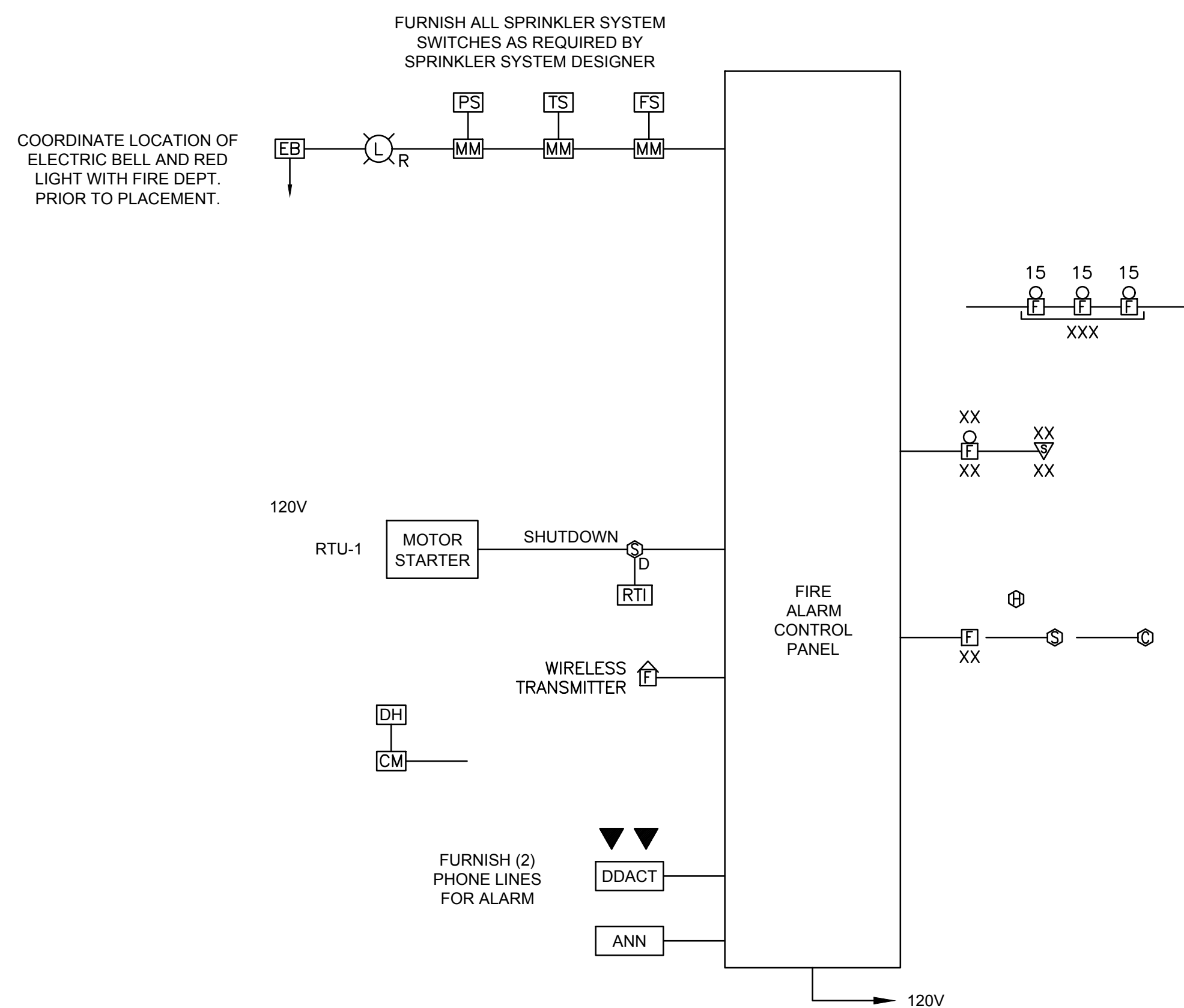
ELECTRICAL LIGHTING SCHEDULE & FIRE ALARM RISER DIAGRAM

DATE: 19 JUNE 2020

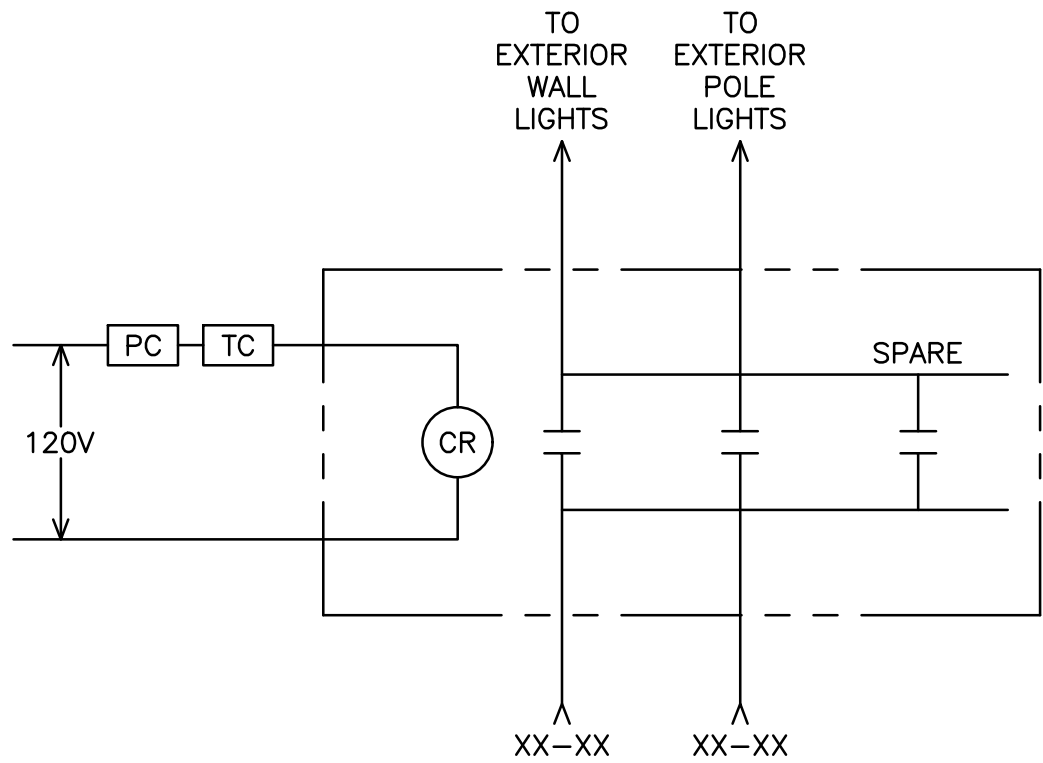
SHEET NUMBER:

E2.2

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LIGHTING SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	MOUNTING	NOTES
AA	LED POLE LIGHT. FULL CUTOFF. BLACK FINISH. TYPE 4 WIDE DISTRIBUTION. 120V	BEACON LIGHTING	65W LED 3000K 7908 LUMENS	20' POLE	MODEL #: VPS-36L65-3K7-4W-UNV-BLT-BC
BB	FORWARD THROW LED WALL PACK WITH -20°C BATTERY BACKUP. NATURAL ALUMINUM FINISH. FULL CUTOFF. 120V	LITHONIA LIGHTING	15W LED 3000K 1947 LUMENS	WALL SURFACE 12" AFG.	MODEL #: WDGE2LED-P2-30K-80CRI-VF-MVOLT-E20WC-DNAXD
CC	WIDE THROW LED WALL PACK WITH -20°C BATTERY BACKUP. NATURAL ALUMINUM FINISH. FULL CUTOFF. 120V	LITHONIA LIGHTING	10W LED 3000K 1241 LUMENS	WALL SURFACE 8" AFG.	MODEL #: WDGE2LED-P1-30K-80CRI-VF-MVOLT-E20WC-DNAXD
DD	WAFER TYPE RECESSED LED DOWNLIGHT. WET LOCATION. 120V	LITHONIA LIGHTING	13W LED 3000K 865 LUMENS	UNDER CANOPY	MODEL #: WF6-LED-30K-MVOLT-MW



NOTES:
1. SEE E0.0 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

KEYED NOTES:

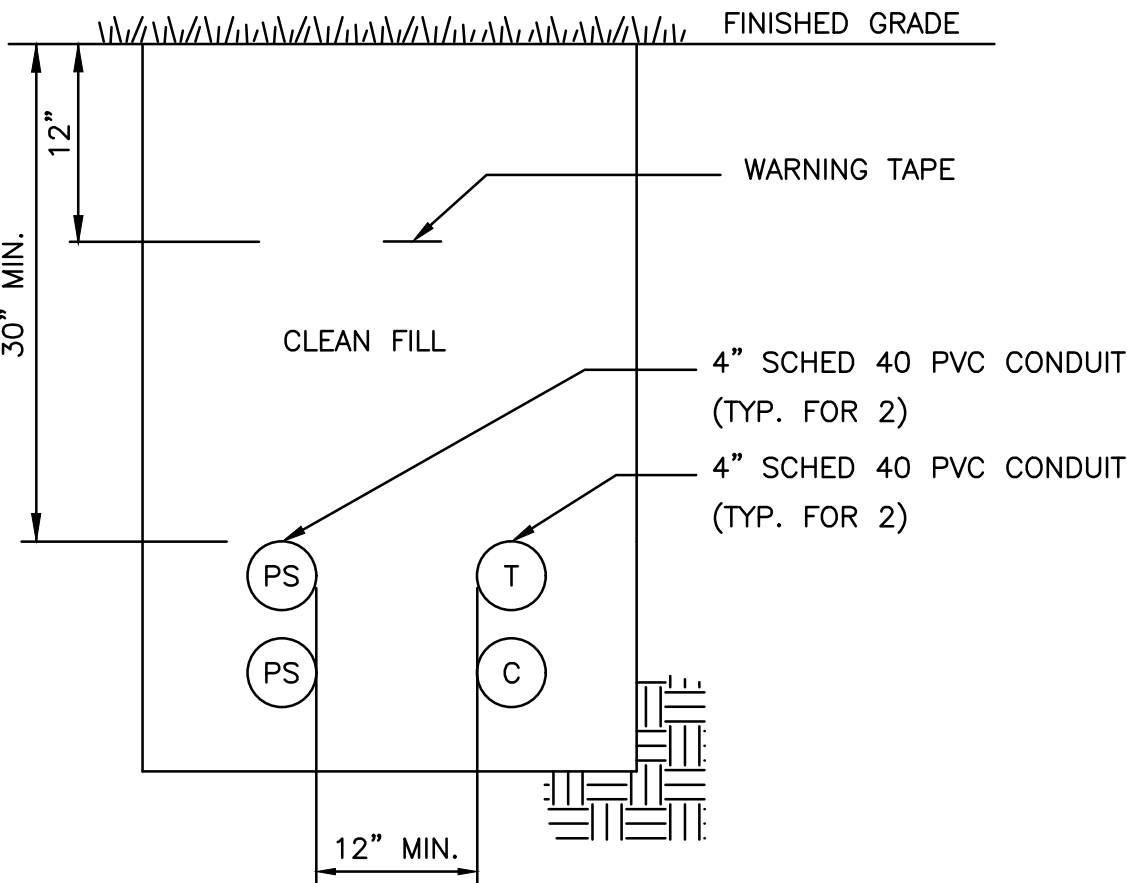
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02 EXTERIOR LIGHTING SCHEDULE
SCALE: NOT TO SCALE

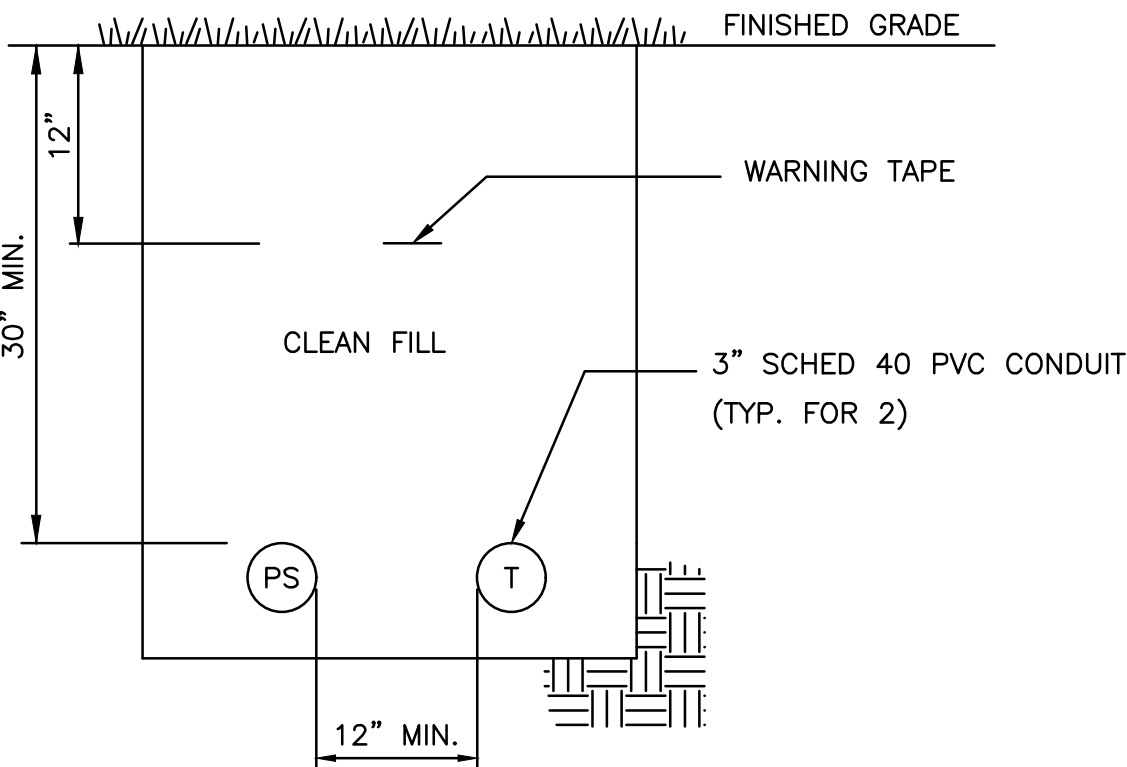
03 EXTERIOR LIGHTING CONTROL DIAGRAM
SCALE: NOT TO SCALE

DUCT BANK LEGEND:

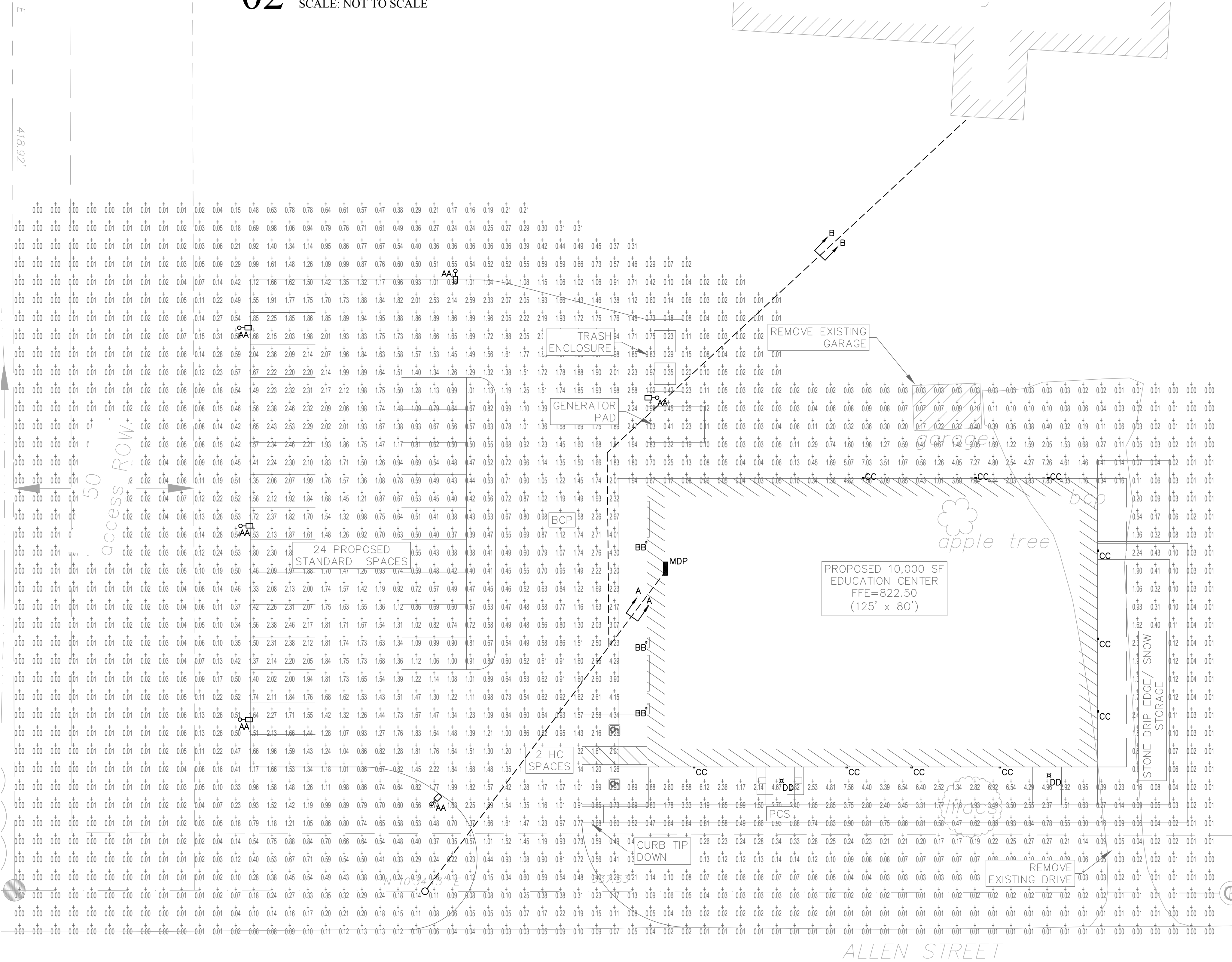
- PP - POWER (PRIMARY)
- PS - POWER (SECONDARY)
- SP - SPARE
- PG - GENERATOR AUX. POWER CKTS
- PR - GENERATOR REMOTE ANNUNCIATOR WIRING
- C - CABLE
- T - TELEPHONE



04 DUCT BANK DETAIL A-A
SCALE: NOT TO SCALE



05 DUCT BANK DETAIL B-B
SCALE: NOT TO SCALE



01 ELECTRICAL SITE PLAN
SCALE: 1/16" = 1' - 0"

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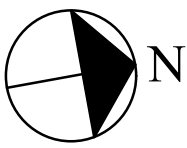
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DRAWING TITLE:
ELECTRICAL SITE PLAN

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