



HOWARD STEIN HUDSON

Engineers + Planners

Construction Management Plan

440 Granite Ave

Milton, MA 02186

Prepared for

Town of Milton

Developer

Oranmore Enterprises, LLC

Construction Manager

Brenco Construction Company

Prepared by

Howard Stein Hudson

Date

October 12, 2021



General Information

On behalf of Oranmore Enterprises, LLC (The Developer) and Brenco Construction Company (The Contractor), in collaboration with Howard Stein Hudson (HSH), the attached Construction Management Plan (CMP) has been developed for review and approval by the Town of Milton. This CMP includes the following:

- Written agreement describing construction activities;
- Construction Management Plans, *dated October 12, 2021*, and;
- Construction Schedule.

Developer: Brenco Construction / Oranmore Enterprises, LLC

Michael Moore
36 Central Ave Unit 2C
Milton, MA 02186
617-259-5166

Contractor: Brenco Construction Company

Michael Moore
36 Central Ave Unit 2C
Milton, MA 02186
617-296-4548

Project Description

The Project is located at 440 Granite Avenue in Milton, MA. The proposed mixed used, multi-unit residential and commercial building will consist of a 5-story, 33-unit building with 40 residential parking spaces and 3 units of commercial spaces. The site is bound by residential and commercial buildings to the north, Mechanic St to the east, and Granite Ave to the west and south.

Construction Phasing and Scheduling

To minimize impacts on the surrounding roadway network and to provide a safe pedestrian environment, it is expected that construction would occur in one phase:

- 1) Site Utilization



WORK HOURS

| Work Period | Time Period |
|---------------------------|-------------------|
| Typical (Monday – Friday) | 7:00 AM – 6:00 PM |
| Saturday | 7:00 AM – 6:00 PM |

It is expected that the overall construction duration should last approximately 20 months. If night work or weekend work becomes necessary, approval shall be obtained from the Town of Milton and other relevant departments.

Phase I: Site Utilization (ref. CMP-006 and CMP-007)

DURATION: 84 WEEKS (JANUARY 2022 – AUGUST 2023)

Phase I involves the demolition and construction of the proposed mixed-use building. This phase will include the use of excavators, dump trucks, concrete pumps, a mobile crane, and other supporting equipment. The work will occur in two stages:

- Stage I - To provide a safe working environment, the site will be surrounded by 72" chain link fence on the north side of the site. Along the south and east side of the site, temporary concrete barriers MASH TL-2 with 36-inch chain link fence will be utilized. For pedestrian safety, pedestrians will be detoured onto the east side of Mechanic St at Adams Street. On Granite Ave, pedestrians will be detoured to the north along the east side of Mechanic Street to Adams Street.

Trucks will access the site via the 20-foot swing gate A and exit via the 20-foot swing gate B on Granite Ave. On Mechanic Street, trucks will enter via the 20-foot swing gate C and exit via movable fence at the intersection of Mechanic Street and Granite Ave. All material deliveries will occur within the site limits and will be staged such that a clear path can be maintained for on-site truck mobility.

- Stage II – Involves the periodic closure of Mechanic Street. During this stage, all construction fence, water barriers, and signage will remain from stage I. Proper MUTCD signage, construction drums, and barricades will be used to close the road to through traffic. To minimize impacts to the locals, this work shall occur during off-peak (9:30AM-3:30PM) hours only, or as directed by the Town of Milton. At the end of each work period the traffic control equipment shall be removed and the roadway opened to through traffic. A police detail shall be present to assist residents with access to their driveways. The contractor will



provide access to all residences throughout construction. This work shall only take place 15-20 times during construction.

Overall Schedule

Key construction activities and approximate time periods are summarized below and on the attached CMP.

| Phase | Time Period | Duration |
|------------------|----------------------------|----------|
| Site Utilization | January 2022 – August 2023 | 84 weeks |

Perimeter Protection/Public Safety

Brenco Construction Company will work to ensure the staging areas minimize impact to pedestrian and vehicular flow. Secure fencing and barricades will be used to isolate construction areas from pedestrian traffic around the site. In addition, sidewalk areas and walkways near construction activities will be well marked to protect pedestrians and ensure their safety. Proper signage as required by the Town of Milton will be installed and regularly updated as site conditions change during the construction process.

Construction procedures will be designed to meet all Occupational Safety and Health Administration (OSHA) safety standards for specific site construction activities.

Safety on Site

All subcontractors working on site shall provide and maintain all safety measures, procedures, and documentation as required by governing agencies. The jobsite will be enclosed by temporary fencing. Brenco Construction Company will meet with Town Officials to review the proposed traffic management plan to ensure acceptance and compliance with local jurisdiction. Prior to the start of work by any subcontractor a Hazardous Risk Assessment Plan is reviewed. During this review all potential hazardous work requirements and the safety plans required to mitigate these risks are confirmed. Construction procedures will be designed to meet all Occupational Safety and Health Administration (OSHA) safety standards for specific site construction activities. With the support of Brenco Construction Company, all subcontractors will implement and manage their own Health and Safety program for the project. All site personnel will be subject to follow the safety orientation and identification guidelines and processes established by Brenco Construction Company.



Access to the site for emergency vehicles will be maintained at all times with a dedicated and marked point of access. All other site points of access will be maintained for a secondary access as needed. The proposed site logistic and traffic plans are designed to isolate the construction while providing safe access for pedestrians and automobiles during normal day to day activities and emergencies.

Emergency Vehicle Access

Access to the site for emergency vehicles will be maintained at all times. The proposed staging plan is designed to isolate the construction while providing safe access for pedestrians and automobiles during normal day to day activities and emergencies.

All construction material delivery trucks will be loaded and unloaded inside the construction fence throughout the course of the project. Trucks and equipment will follow the designated truck route and be staged at the designated areas on the CMP.

Utility Connections

There will be multiple utility connections on this project, all utilities will be located onsite, on Granite Ave, or Mechanic Street. This will necessitate coordination with each respective utility company and the Town of Milton Department of Public Works. Road closures and street opening permits will be submitted for approval accordingly prior to the start of each task. All right-of-way utility work will conform to the Town of Milton's utility standards and moratorium dates respectfully and as indicated per Town of Milton.

Police detail officers should be present to facilitate traffic for work within the Town of Milton right of way. Upon completion of each work period, the utility trenches shall be steel-plated, and the lanes will be reopened to daily traffic. If work occurs during the winter moratorium, utility trenches shall be backfilled, compacted, and paved with hot mix asphalt at the end of each workday. Steel plates shall not be used during the winter moratorium.



Truck Movements During Construction

Trucks are needed for material removal and delivery from and to the site as the project proceeds. Truck traffic related to this construction site shall vary considerably throughout the construction period.

Any deliveries that need to be completed outside of the work period will need direct approval from the Town of Milton prior to deliveries.

Trucks coming to and from the site are required to use major arterial roadways or highways and not local streets. The selection of proposed truck routes is based on the following criteria:

- Minimizing truck activity in the residential neighborhoods;
- Designating specific roads where trucks are permitted; and
- Providing access to and from the major arteries (e.g. Interstate 93, 90)

A detailed Truck Routing Plan is shown on Sheet CMP-010 and the individual truck maneuvers for entering and exiting the site are shown on Sheets CMP-008 and CMP-009 of the attached CMP.

Dust Control

Construction activities generate fugitive dust that will result in localized increases in airborne particulate levels. To reduce emissions of fugitive dust and minimize impacts on the local environment, strictly enforced mitigation measures will be employed, including:

- Wetting agents will be used regularly to control and suppress dust that may come from construction activities.
- Trucks used for the transportation of construction debris will be covered before exiting the project site.
- Streets and sidewalks will be cleaned regularly using mechanical street sweepers to minimize accumulations.
- Trucks tires shall be hosed down prior to entering public streets.



Snow Removal

Brenco Construction Company shall be responsible for removing snow from all public sidewalk and temporary pedestrian routes affected by their work. This will be done daily and continuously to ensure that all sidewalks are clear of snow and ice. Under no condition will the removed snow be disposed of on public property.

Rodent Control

Town of Milton has declared that the infestation of rodents in the Town is a serious problem. In order to control this infestation, the Town enforces the requirements established under the Massachusetts State Sanitary Code, Chapter 11, 105 CMR 410.550 and the State Building Code, Section 108.6.

Brenco Construction Company will implement a rodent control program to be administered by a licensed pest control contractor. Rodent control measures will be in-place prior to, during, and following construction activities. The program will include performance of extermination and control procedures on a bi-weekly basis, and the placement of tamper resistant bait boxes around the perimeter of the site.

Emergency Contacts

A 24-hour emergency contact list will be provided to all parties involved in the project prior to start of construction and maintained throughout construction.

Oranmore Enterprises, LLC

Contact: Michael Moore 617-259-5166

Brenco Construction Company

Contact: Seamus Moore 617-719-2110



Signatures and Approvals

Submitted By:

Michael Moore
Brenco Construction Company

Approved By:

Town of Milton

Signature

Date

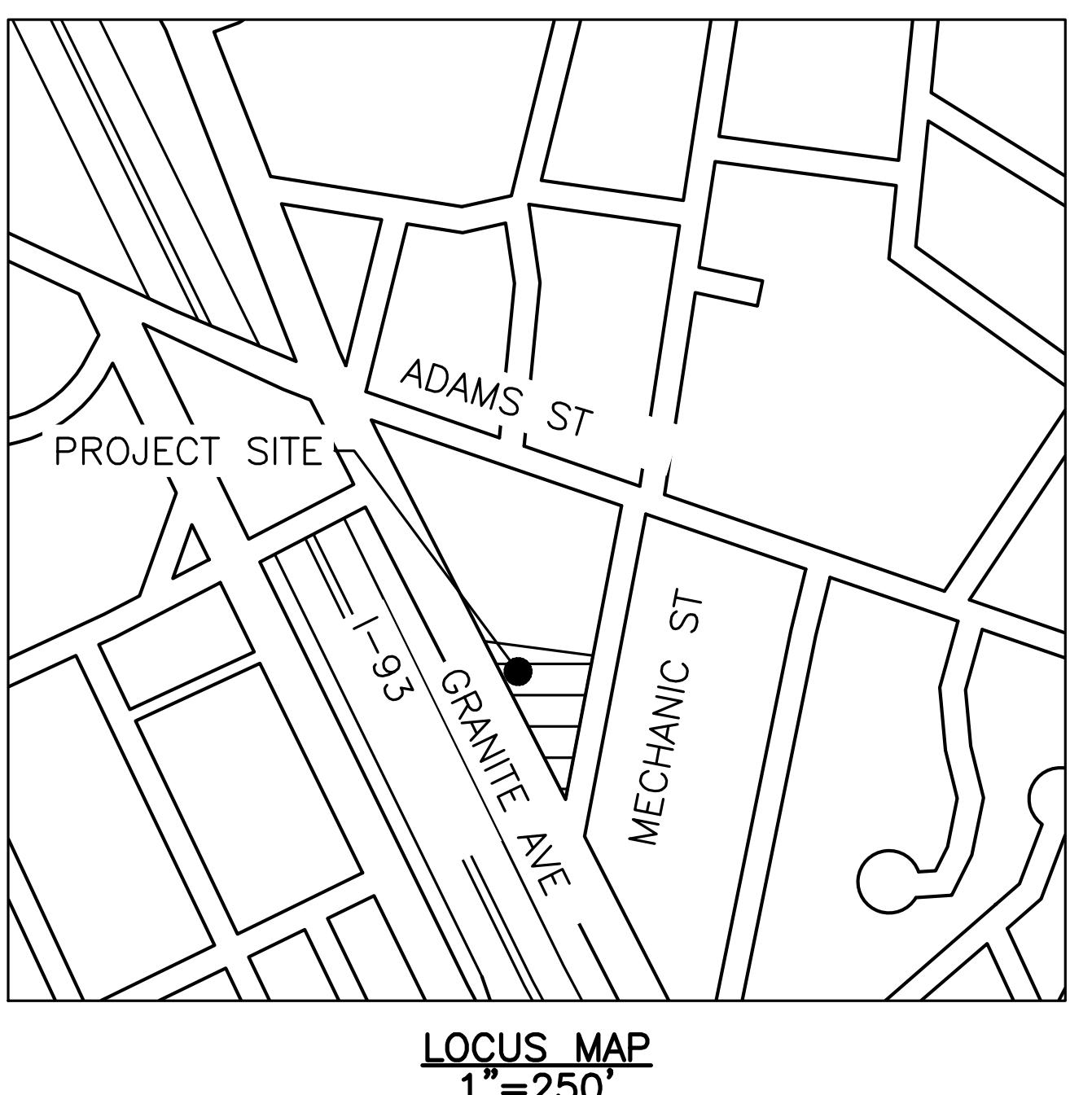
Signature

Date

CONSTRUCTION MANAGEMENT PLANS
FOR
440 GRANITE AVE
MILTON, MA.

SHEET INDEX

| | |
|---------|--|
| CMP-001 | COVER SHEET |
| CMP-002 | GENERAL NOTES, LEGEND, AND SCHEDULE |
| CMP-003 | TEMPORARY TRAFFIC CONTROL DEVICES I |
| CMP-004 | TEMPORARY TRAFFIC CONTROL DEVICES SHEET II |
| CMP-005 | EXISTING CONDITIONS PLAN |
| CMP-006 | SITE UTILIZATION |
| CMP-007 | MECHANIC ST ROAD CLOSURE |
| CMP-008 | TRUCK TURNING MANEUVERS I |
| CMP-009 | TRUCK TURNING MANEUVERS II |
| CMP-010 | TRUCK ROUTING PLAN |
| CMP-011 | SIGN SUMMARY |



ALL WORK SHALL CONFORM TO THESE PLANS, THE 2020 MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES (ENGLISH EDITION), THE 2017 CONSTRUCTION STANDARDS, THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD) WITH LATEST REVISIONS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE AMERICAN STANDARD FOR NURSERY STOCK CURRENT EDITION (ANSI Z-60.1-2004)

PREPARED FOR:



440 GRANITE AVE
MILTON, MASSACHUSETTS, 02186
NORFOLK COUNTY

DRAFT CMB

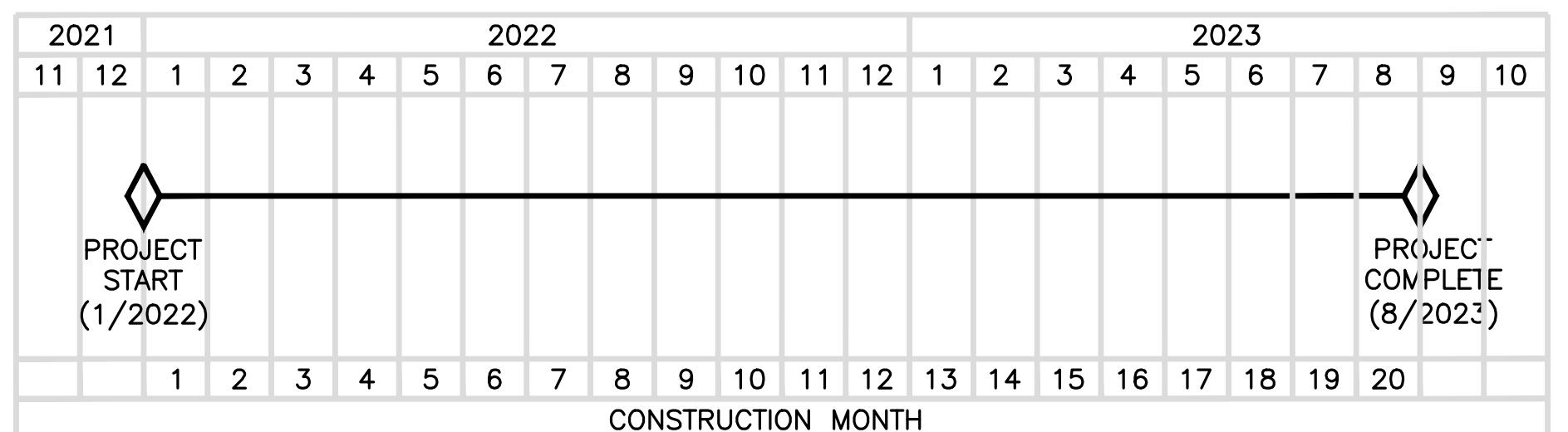
COVER

| | |
|-----------------|--------------|
| DATE: | OCT 12, 2021 |
| PROJECT NUMBER: | 2021153 |
| DESIGNED BY: | M.KHARAKH |
| DRAWN BY: | M.KHARAKH |
| CHECKED BY: | K.MARTIN |

GENERAL NOTES

- THESE PLANS ARE NOT INTENDED TO LIMIT THE CONTRACTOR'S RIGHT TO SCHEDULE THE WORK BUT TO OUTLINE ONE WAY OF PROGRESSING. THE CONTRACTOR IS EXPECTED TO USE KNOWLEDGE AND EXPERIENCE TO PERFORM THE WORK IN THE MOST SAFE AND EFFICIENT MANNER IN COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS AND MEETING THE REQUIREMENTS OF THE TOWN OF MILTON.
- CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE CITY, CONSTRUCTION MANAGEMENT PLANS FOR ANY WORK OUTSIDE OF THE WORK ZONES INDICATED IN THESE DRAWINGS.
- ALTERNATIVE PHASING OR MODIFICATIONS TO ANY ASPECT OF THE CONSTRUCTION MANAGEMENT PLANS AND THE CONSTRUCTION STAGING PLANS WILL BE SUBJECT TO REVIEW FOR ACCEPTANCE BY THE CITY PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH THE SUBMISSION AND REVIEW OF ALTERNATIVE CONSTRUCTION MANAGEMENT PLANS AND CONSTRUCTION STAGING PLANS, INCLUDING PRESENTATION TO THE CITY AND THE NEIGHBORHOOD IF NEEDED, VEHICULAR AND PEDESTRIAN TRAFFIC MODELING, LEVEL OF SERVICE (LOS) ANALYSES, AND OTHER ASSOCIATED EFFORTS. ALTERNATIVE CONSTRUCTION MANAGEMENT AND CONSTRUCTION STAGING PLANS SHALL NOT CAUSE AN INTERFERENCE WITH ADJACENT CONTRACTS OR DELAY THE SCHEDULE OR INCREASE THE COST OF THIS OR ANY ADJACENT CONTRACTS. LEVEL OF SERVICE ANALYSIS SHALL BE DEFINED BY THE "HIGHWAY CAPACITY MANUAL."
- THE CONSTRUCTION MANAGEMENT PLANS REQUIRE THAT SPECIFIC SIDEWALK WIDTHS BE MAINTAINED DURING THE VARIOUS STAGES OF CONSTRUCTION TO FACILITATE ACCEPTABLE PEDESTRIAN LEVEL OF SERVICE (LOS) MOVEMENTS ALONG TRAVEL WAYS TO AND FROM ABUTTING BUILDING AND BUSINESSES WITHIN THE PROJECT LIMITS. THE MINIMUM SIDEWALK WIDTHS SHOWN ON THE TRAFFIC MANAGEMENT PLANS ARE BASED ON ENGINEERING ANALYSIS AND ARE LOCATED ON THE PLANS AROUND TEMPORARY FIXED BARRICADED WORK ZONES AT SITE SPECIFIC POINTS OF CONSTRUCTION. THE SIDEWALK WIDTHS SHOWN ON THE CONSTRUCTION MANAGEMENT PLANS SHALL NOT BE DEVIATED FROM WITHOUT THE PERMISSION OF THE CITY. WHEN SPECIFIC DIMENSIONS ARE NOT SHOWN, THE CONTRACTOR SHALL MAINTAIN A MINIMUM 4-FOOT PASSAGE.
- A. CONTRACTOR SHALL PROVIDE AND MAINTAIN A TEMPORARY PEDESTRIAN ROUTE ACCESSIBLE TO DISABLED PERSONS AROUND BLOCKAGES TO AN EXISTING PEDESTRIAN ROUTE (E.G., SIDEWALKS, CROSSWALKS, PEDESTRIAN CURB RAMPS, ETC.). BLOCKAGES INCLUDE, BUT ARE NOT LIMITED TO, CONSTRUCTION WORK, EXCAVATIONS, EQUIPMENT AND VEHICLES, TEMPORARY WATER AND UTILITY LINES.
B. SIDEWALK AREAS SHALL REMAIN OPEN AND FREE FROM SAFETY CONTROL DEVICES AND CONSTRUCTION DEBRIS THROUGHOUT THE DURATION OF THE CONSTRUCTION. PEDESTRIAN DETOURING SHALL NOT OCCUR UNLESS APPROVED BY THE CITY.
- CONTRACTOR SHALL SECURE WORK AREAS TO ENSURE PUBLIC SAFETY AND CONVENIENCE. THIS SHALL INCLUDE ENSURING THAT ALL EXCAVATIONS ARE PROTECTED AT ALL TIMES.
- ALL CONSTRUCTION SIGNING, DRUMS, BARRICADES AND OTHER DEVICES SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS AMENDED AND MILTON DEPARTMENT OF PUBLIC WORKS SIGN STANDARDS.
- CHANNELIZATION WILL BE ACCOMPLISHED THROUGH THE USE OF RELEOCTORIZED PLASTIC DRUMS OR APPROVED EQUAL IN ACCORDANCE WITH THE MUTCD.
- CONTRACTOR SHALL COORDINATE WITH THE CITY TO ACCOMMODATE ACCESS NEEDS OF ABUTTING PROPERTIES NOT SPECIFIED IN THE PLANS.
- CONTRACTOR SHALL MAINTAIN EMERGENCY PASSAGE AT ALL TIMES TO BUILDINGS WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL MAINTAIN 24-HOUR EMERGENCY VEHICLE ACCESS TO AND THROUGH CONSTRUCTION AREAS.

BAR SCHEDULE



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PREPARED FOR:



440 GRANITE AVE
MILTON, MASSACHUSETTS, 02186
NORFOLK COUNTY

CMP LEGEND

| | |
|-------|---|
| • | SIGN |
| — | CONSTRUCTION GATE |
| — — — | ROLLING GATE |
| — X — | PERMANENT CHAIN LINK FENCE |
| — X — | MOVEABLE CHAIN LINK FENCE |
| ● | CONSTRUCTION DRUM |
| → | TRAFFIC FLOW |
| ← — → | PEDESTRIAN FLOW |
| (P) | POLICE DETAIL |
| (S) | SIGNALIZED INTERSECTION |
| — — | PORTABLE PRECAST CONCRETE BARRIER |
| — * — | CHAIN LINK FENCE ON CONCRETE BARRIER |
| — — | PORTABLE PRECAST CONCRETE BARRIER WITH HANDRAIL |
| — — | TAPERED END BARRIER |
| — — | IMPACT ATTENUATOR |
| — — | WATER-FILLED TEMPORARY BARRIER |
| — — | TEMPORARY WHEELCHAIR RAMP (SIDE APRONS) |
| — — | TEMPORARY PARALLEL WHEELCHAIR RAMP |
| — — | TEMPORARY PERPENDICULAR WHEELCHAIR RAMP |
| ▽ | BUILDING ACCESS POINTS |

DRAFT CMP

GENERAL NOTES LEGEND AND SCHEDULE

| | |
|-----------------|--------------|
| DATE: | OCT 12, 2021 |
| PROJECT NUMBER: | 2021153 |
| DESIGNED BY: | M.KHARAKH |
| DRAWN BY: | M.KHARAKH |
| CHECKED BY: | K.MARTIN |
| CMP-002 | |



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REARED FOR:



440 GRANITE AVE
MILTON, MASSACHUSETTS, 02186
NORFOLK COUNTY

DRAFT GMP

TEMPORARY TRAFFIC CONTROL DEVICES II

DATE: OCT 12, 2021

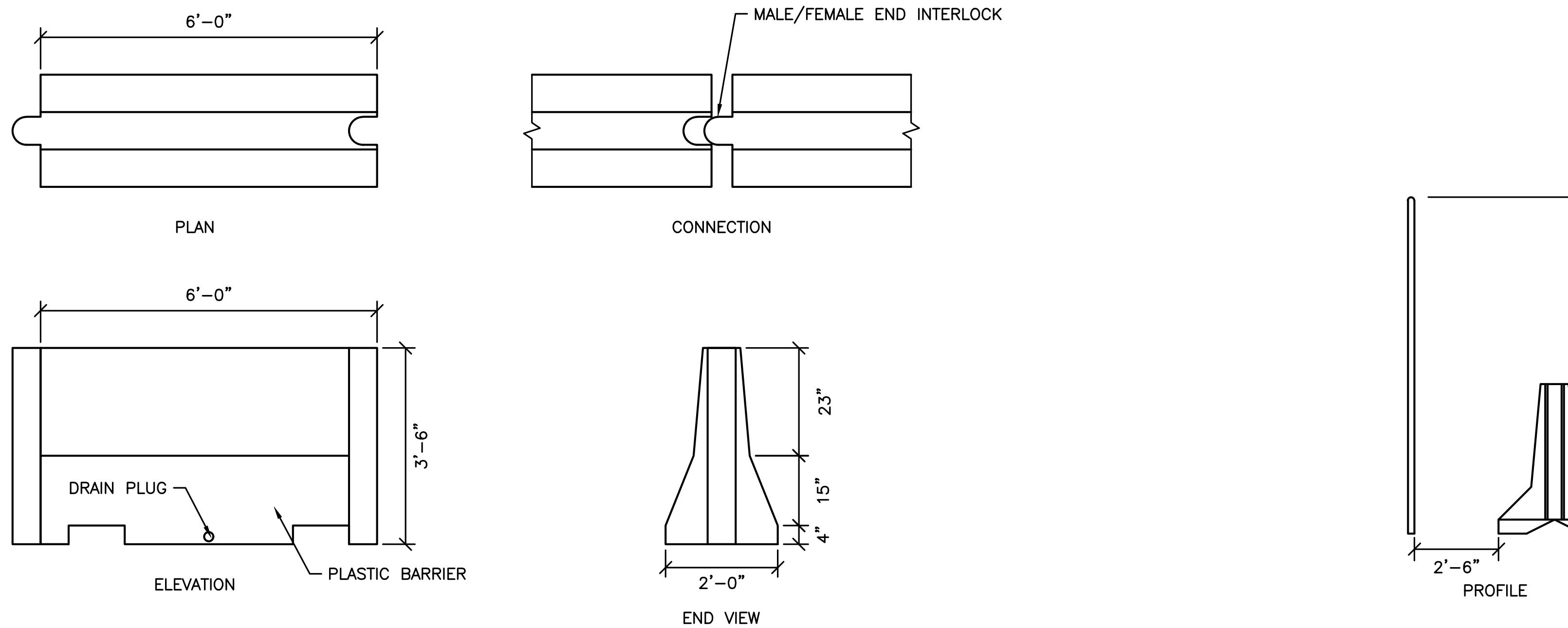
PROJECT NUMBER: 2021112

DESIGNED BY: M KHARAKH

DRAWN BY: M.KHARAKH

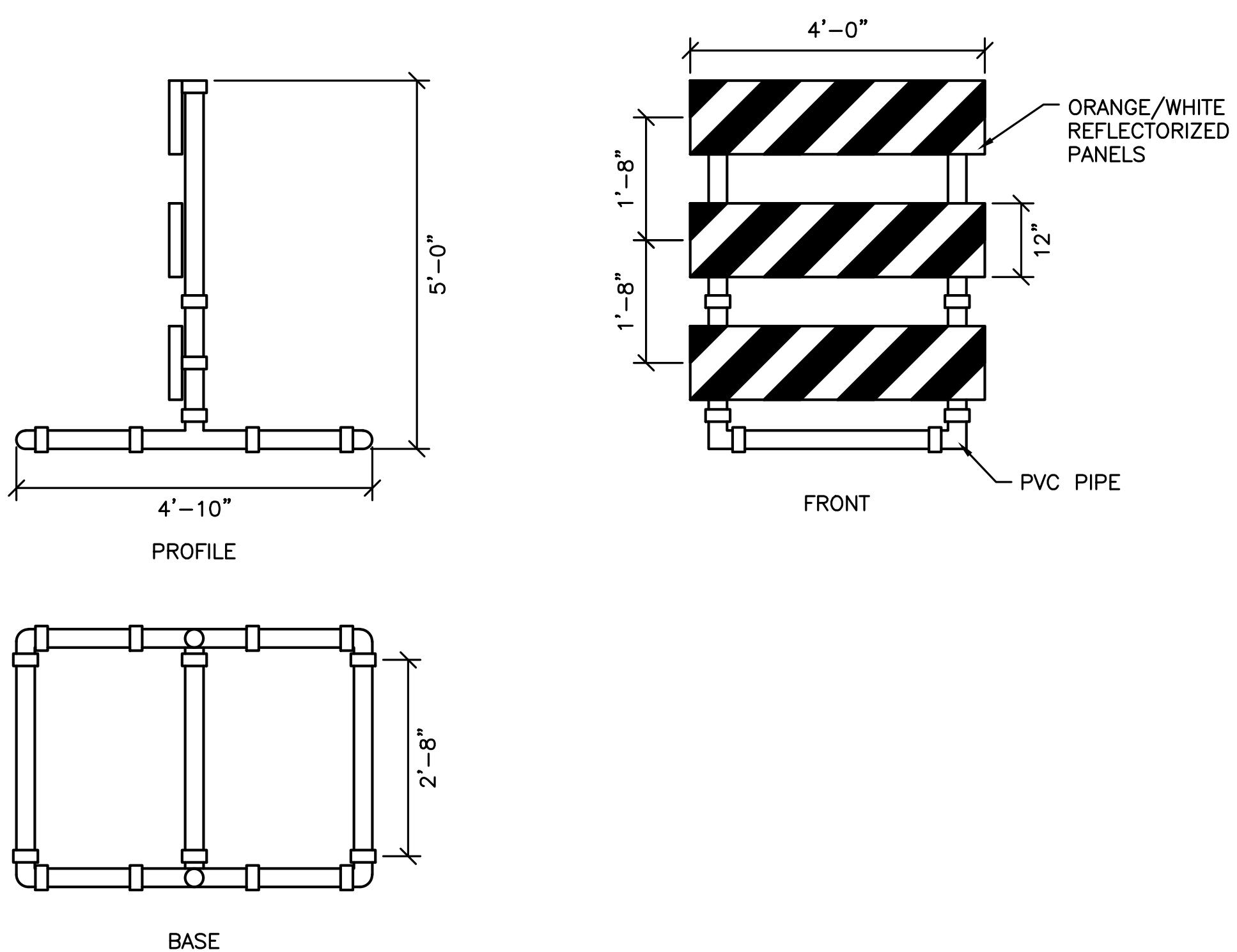
HECKED BY:

CMP-004



NOTE:
NON-TOXIC ANTI-FREEZE SHALL BE USED TO PREVENT FREEZING.

WATER-FILLED TEMPORARY BARRIER



TYPE III BARRICADE

TYPE III BARRICADES SHALL MEET MUTCD REQUIREMENTS (CURRENT EDITION)



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REARED FOR:



440 GRANITE AVE
MILTON, MASSACHUSETTS, 02186
NORFOLK COUNTY

MILTON, MASSACHUSETTS NORFOLK COUNTY

NURFOLK COUNTY

DRAFT CMP

EXISTING CONDITIONS

OCT 12, 2021

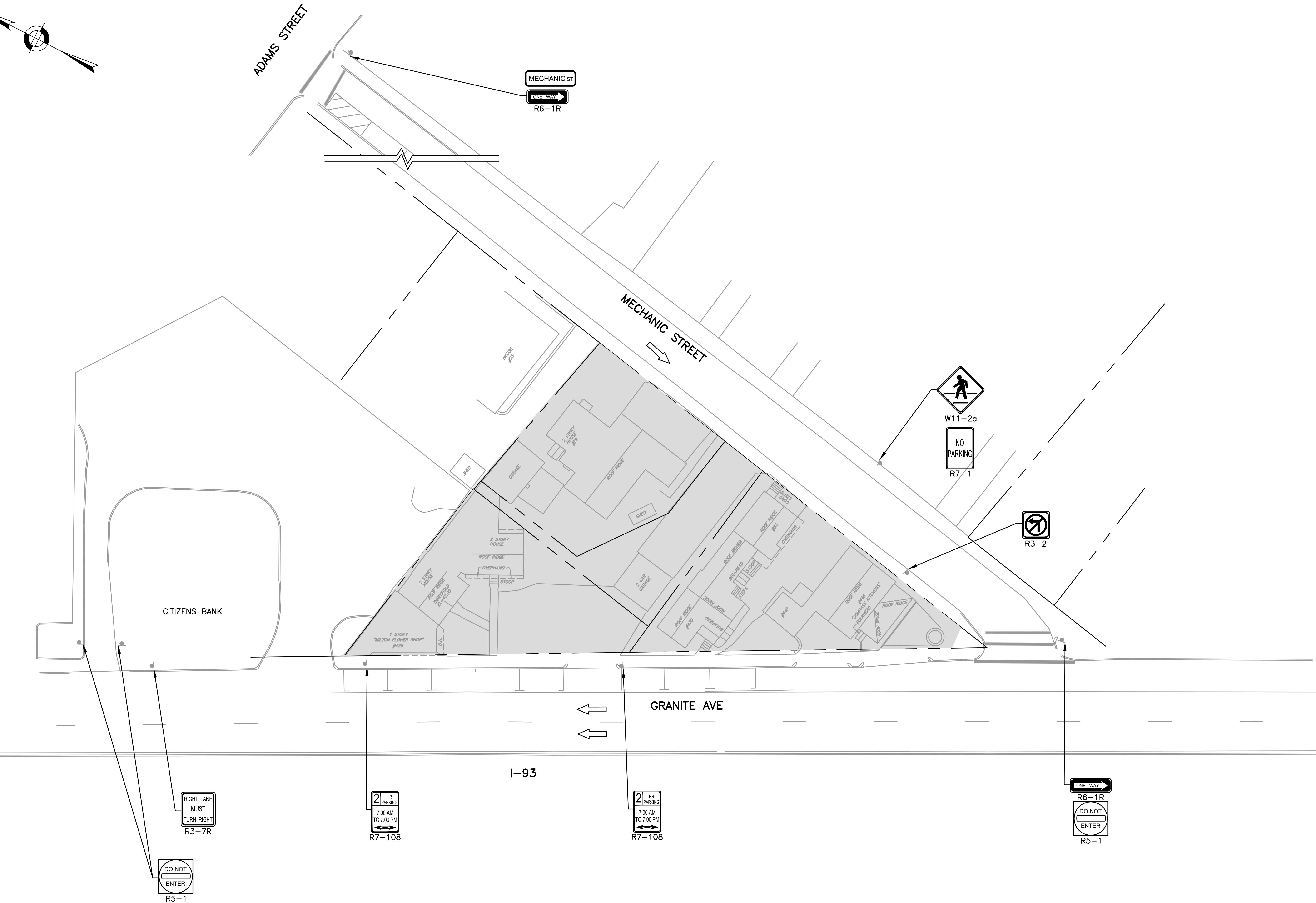
NUMBER: 2021153

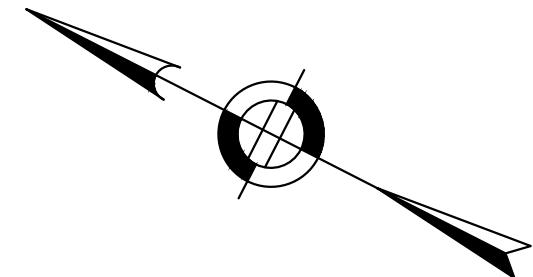
BY: M.KHARAKH

M.KHARAKH

Y:

An engineering scale diagram consisting of a horizontal line. On the left, there are tick marks at 0, 10, 20, and 40. On the right, there is a tick mark at 80. The distance between 0 and 80 is filled with a solid black bar. The distance between 0 and 20 is filled with a white bar. The distance between 20 and 40 is filled with a black bar. The distance between 40 and 80 is filled with a white bar. The word 'FEET' is written in capital letters to the right of the scale. Below the scale, the words 'ENGINEERING SCALE' are written in capital letters.





A diagram showing a road narrowing on Adams Street. The street is labeled "ADAMS STREET" in bold capital letters. A dashed line indicates the center of the road, which narrows as it goes down the slope. A "ROAD NARROWS" sign with the code "W5-1" is positioned on the right side of the road. A "SIDWALK CLOSED AHEAD" sign with the code "R9-11L" and a "TYPE II BARRICADE" label is located on the left side. A "CROSS HERE" arrow points towards the narrow section of the road. Arrows also point to the barricade and the narrow section of the road. A "W1-4" sign is visible on the far right.

WORK TO BE COMPLETED:

1. ERECT SITE FENCE, BARRIERS, AND SIGNAGE.

NOTES:

1. SEE SHEETS 8-9 FOR TRUCK TURNING MANEUVERS.



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PREPARED FOR



440 GRANITE AVE
MILTON, MASSACHUSETTS, 02186
NORFOLK COUNTY

This detailed construction site plan illustrates the layout and traffic control measures for a building addition project on Granite Ave. The plan shows the existing street layout with ADAMS ST, BOULEVARD ST, and I-93, along with MECHANIC STREET and GRANITE AVE. Key features include:

- Construction Area:** The building addition is shown with a large grey footprint, including a material delivery truck (TYP.) and a boom lift (TYP.).
- Access and Driveway:** A driveway leads from MECHANIC STREET into the construction site, with a 20' SWING GATE C. A 20' SWING GATE A is located on the main site perimeter, and a 20' SWING GATE B is on the side near the Citizens Bank.
- Temporary Fencing:** The site is surrounded by various temporary fences, including a 72" CHAIN LINK FENCE (TYP.) and a 72" MOBILE CHAIN LINK FENCE (TYP.).
- Signage:** Multiple "NO PARKING ANY TIME" signs (R7-1L, R7-1R, R7-1) are placed along the site perimeter. A "SIDWALK CLOSED USE ADAMS STREET" sign (R9-11L(MOD)) is located on ADAMS ST. A "SIDWALK CLOSED USE OTHER SIDE" sign (R9-10) is located on BOULEVARD ST.
- Other Labels:** Labels include "CITIZENS BANK", "SHED", "MATERIAL DELIVERY TRUCK (TYP.)", "PROPS BUILDING OVERHANG (TYP.)", "TEMP CONCRETE BARRIER MASH TL-2 WITH 36" CHAIN LINK FENCE (TYP.)", "MAINTAIN DRIVEWAY ACCESS THROUGHOUT CONSTRUCTION (TYP.)", "REMOVE EXISTING CURB AND PATCH WITH TEMPORARY ASPHALT TO MAINTAIN FIRE TRUCK ACCESS", and "IMPACT ATTENUATOR (TYP.)".
- Intersection:** The plan shows the intersection of MECHANIC STREET and GRANITE AVE, with a "P" indicating a parking area.

DURATION:
JANUARY 2022 - AUGUST 2023
(84 WEEKS)



An engineering scale diagram with markings at 0, 10, 20, 40, and 80. The scale is labeled "ENGINEERING SCALE" and "FEET".

OCT 12, 2021

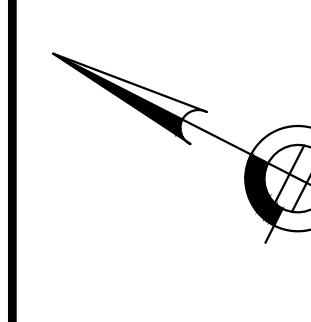
NUMBER: 2021153

BY: M.KHARAKH

BY: M.KHARAKH

BY: K.MARTIN

CMP-006



ROAD CLOSED
TO
THRU TRAFFIC

R11-4

DETOUR

M4-10R

TYPE III BARRICAD

ADAMS STREET

ROAD NARROWS

W5-1

W1-4L

WORK TO BE COMPLETED:

1. POUR CONCRETE FOUNDATIONS.
2. ERECT BUILDING STRUCTURE.

NOTES:

1. POLICE DETAIL OFFICER SHALL BE PRESENT DURING ALL ROAD CLOSURES TO FACILITATE VEHICLE ACCESS FOR RESIDENTS.
2. SEE SHEETS 8-9 FOR TRUCK TURNING MANEUVERS.
3. MECHANIC STREET ROAD CLOSURE SHALL OCCUR DURING OFF-PEAK HOURS ONLY (9:30AM-3:30PM), OR AS DIRECTED BY THE TOWN OF MILTON. AT THE END OF EACH WORK PERIOD, THE ROADWAY SHALL BE REOPENED AND ALL TRAFFIC CONTROL DEVICES ASSOCIATED WITH THE CLOSURE REMOVED.



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PREPARED FOR:

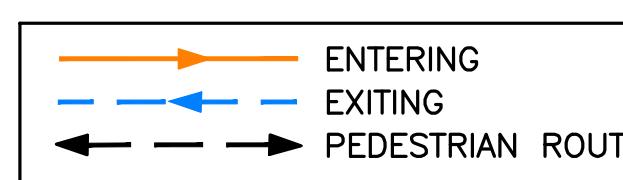


440 GRANITE AVE
MILTON, MASSACHUSETTS, 02186
NORFOLK COUNTY

This detailed construction site plan illustrates the layout and traffic management for a project on Mechanic Street, Adams Street, and Boulevard Street. The plan shows the following key features and constraints:

- Streets and Locations:** Mechanic Street (150' long), Adams Street, Boulevard Street, Granite Ave, and a property with a Prop Building Overhang (TYP.).
- Construction Activities:** A Material Delivery Truck (TYP.) is shown at the site. A mobile crane and a boom lift are also present.
- Temporary Fencing:** 72" chain link fence (TYP.) runs along the property line. 20' swing gates (A, B, and C) provide access to the site. A 72" movable chain link fence (TYP.) is also present.
- Access and Pedestrian Management:** A Type III barricade on Mechanic Street and a Type II barricade on Adams Street manage pedestrian access. Sidewalks are closed on Adams Street (R9-11L(MOD)) and Boulevard Street (R9-10).
- Traffic Control:** Road closure signs (R11-2) indicate that Mechanic Street is closed. No parking signs (R7-1L, R7-1R, R7-1) are placed along the site perimeter. Impact attenuators (TYP.) are used at the site entrance.
- Other Notes:** A contractor is responsible for removing barriers as needed. Driveway access is to be maintained throughout construction. A house at 4023 is labeled.

DURATION: **15-20 TIMES DURING CONSTRUCTION**



An engineering scale diagram with markings at 0, 10, 20, 40, and 80. The scale is labeled 'FEET' at the end. The markings are represented by black horizontal bars. The first marking at 0 is a short black bar. The next marking at 10 is a longer black bar. The marking at 20 is a white space followed by a black bar. The marking at 40 is a white space followed by a black bar. The marking at 80 is a white space followed by a black bar. The text 'ENGINEERING SCALE' is centered below the scale markings.

CMP-007

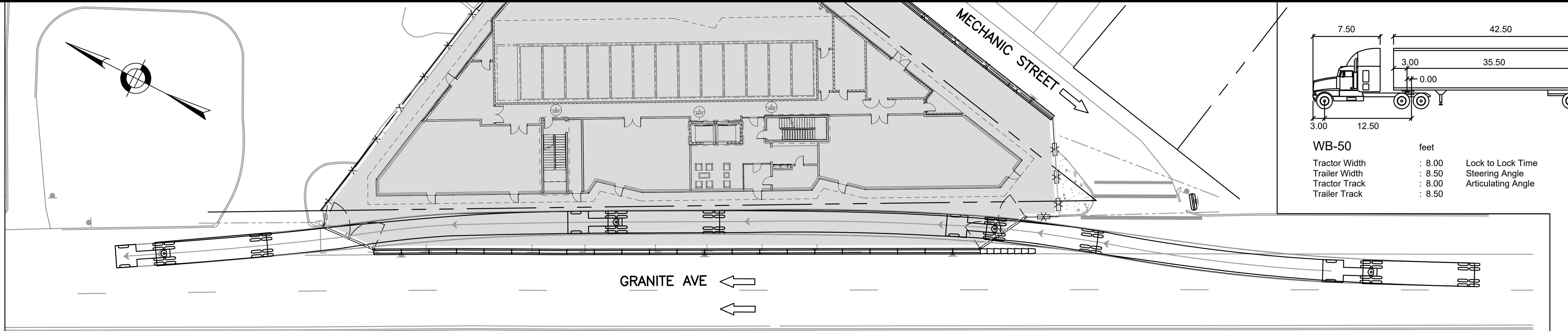


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PREPARED FOR:



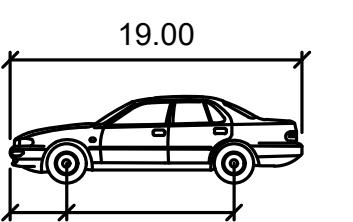
440 GRANITE AVE
MILTON, MASSACHUSETTS, 02186
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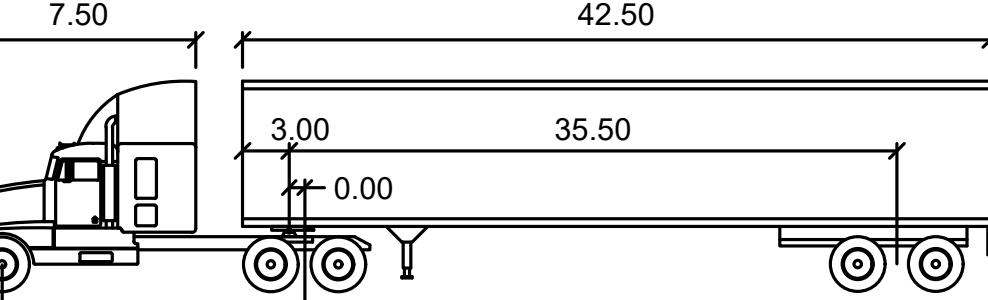
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INGRESS AND EGRESS

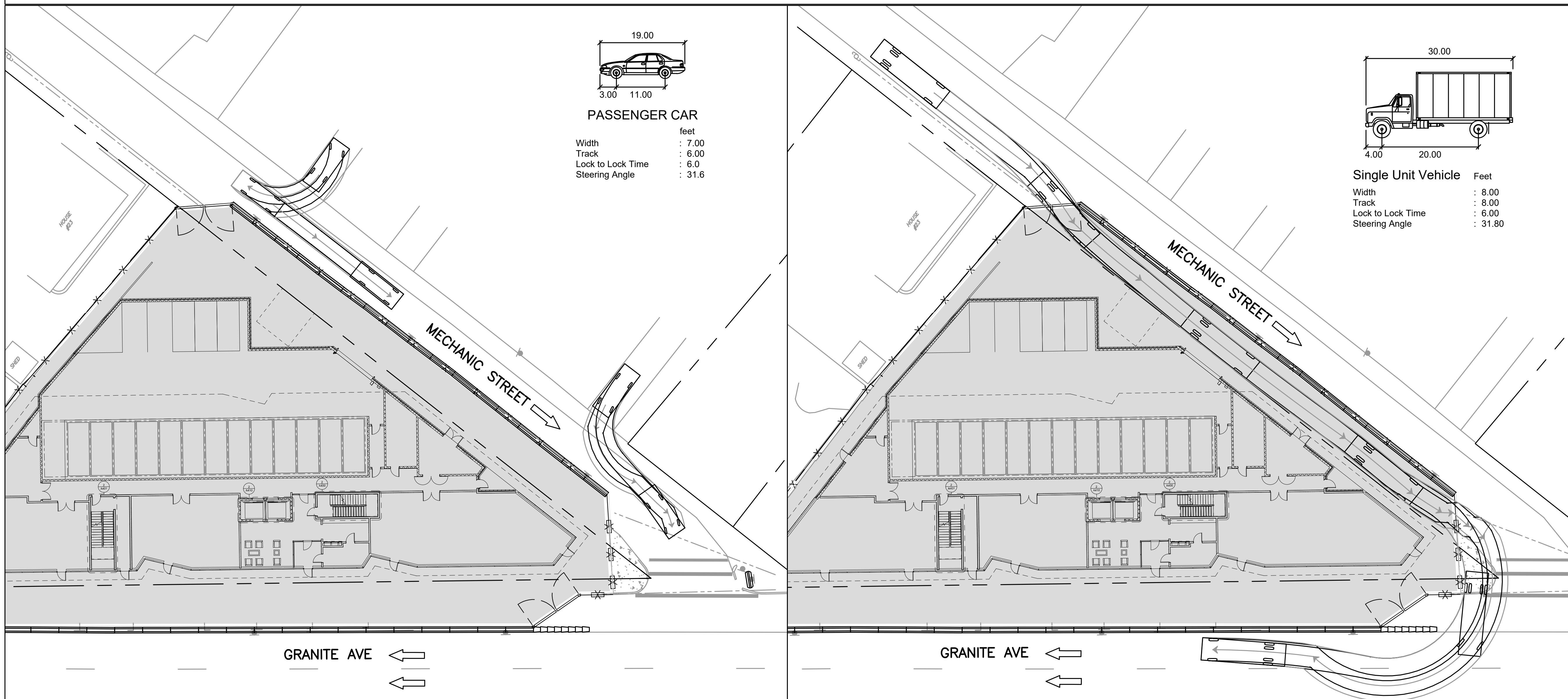
WB-50



PASSENGER CAR
Width : 7.00
Track : 6.00
Lock to Lock Time : 6.00
Steering Angle : 31.6



WB-50
feet
Tractor Width : 8.00
Trailer Width : 8.50
Tractor Track : 8.00
Trailer Track : 8.50
Lock to Lock Time : 6.00
Steering Angle : 17.70
Articulating Angle : 70.00
Articulating Angle : 8.50



GRANITE AVE

GRANITE AVE

I-93

I-93

2

INGRESS AND EGRESS

PASSENGER

3

INGRESS AND EGRESS

SU-30



DATE: OCT 12, 2021

PROJECT NUMBER: 2021153

DESIGNED BY: M.KHARAKH

DRAWN BY: M.KHARAKH

CHECKED BY: K.MARTIN

CMP-008

SHEET 8 OF 11



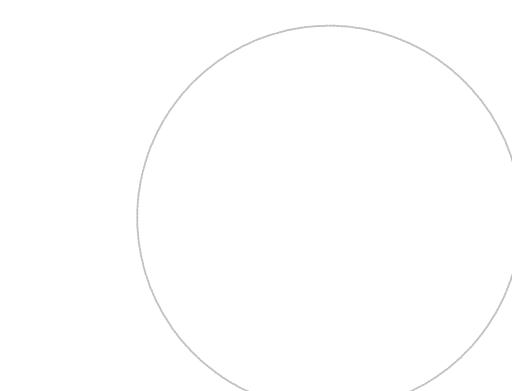
HOWARD STEIN HUDSON
11 Beacon Street, Suite 1010
Boston, MA 02108
www.hshassoc.com

PREPARED FOR:



440 GRANITE AVE
MILTON, MASSACHUSETTS, 02186
NORFOLK COUNTY

REVISIONS:
NO BY DATE DESCRIPTION



DRAFT CMP

TRUCK TURNING
MANUEVERS II

DATE: OCT 12, 2021

PROJECT NUMBER: 2021153

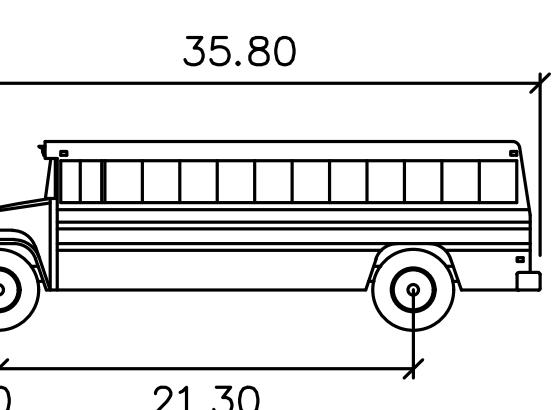
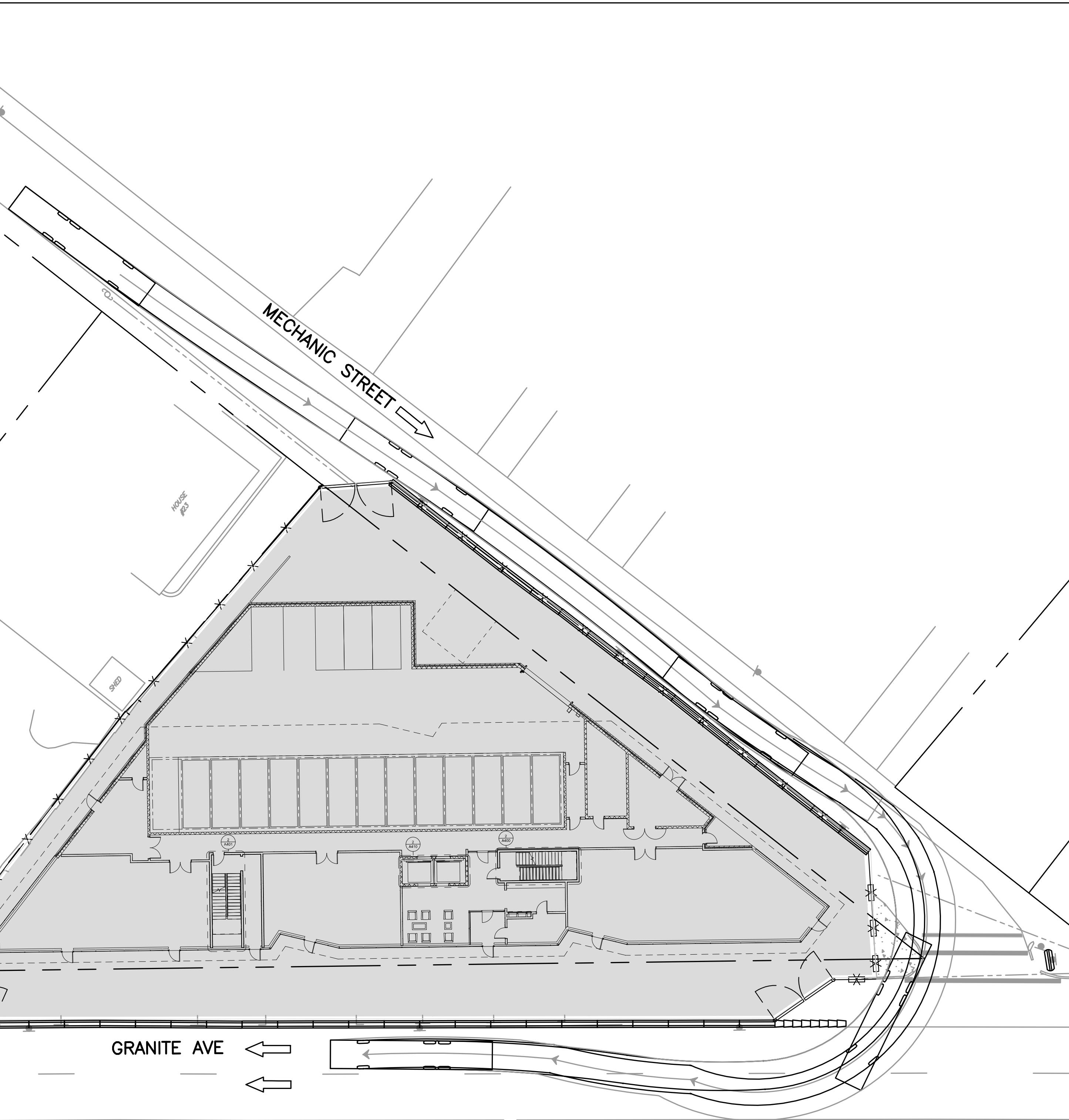
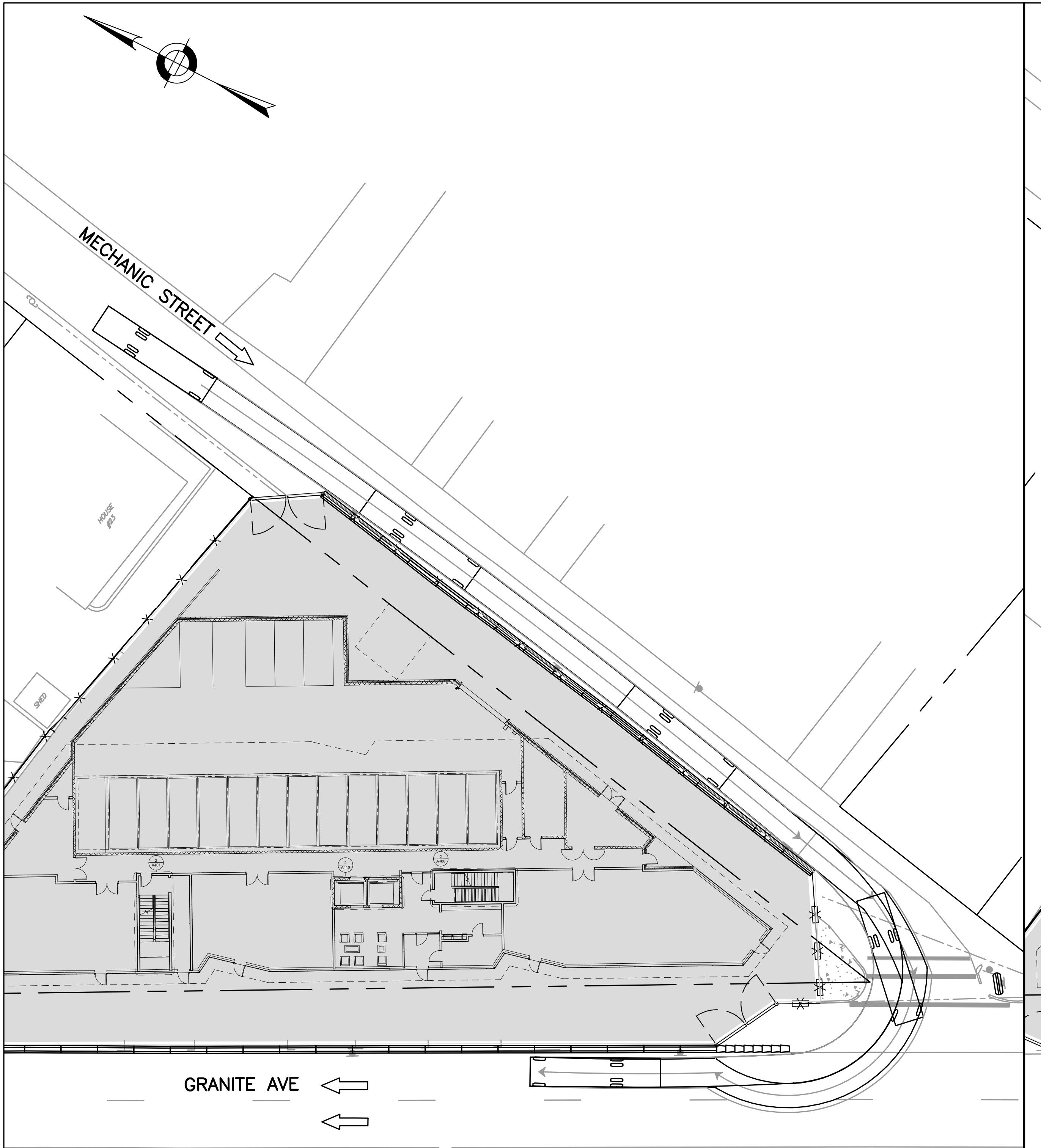
DESIGNED BY: M.KHARAKH

DRAWN BY: M.KHARAKH

CHECKED BY: K.MARTIN

CMP-009

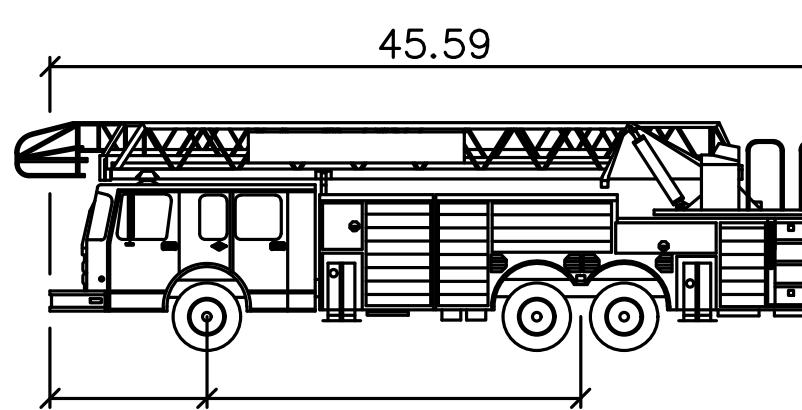
SHEET 9 OF 11



INGRESS AND EGRESS

SCHOOL BUS

SCHOOL BUS feet
Width : 8.00
Track : 8.00
Lock to Lock Time : 6.0
Steering Angle : 37.6



INGRESS AND EGRESS

FIRE TRUCK

FIRE TRUCK feet
Width : 8.00
Track : 8.00
Lock to Lock Time : 6.0
Steering Angle : 25.4

0 10 20 40 80
FEET
ENGINEERING SCALE



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NORFOLK COUNTY

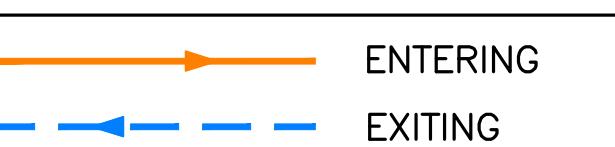
DRAFT CMB

TRUCK ROUTING PLAN

| | |
|-----------------|--------------|
| DATE: | OCT 12, 2021 |
| PROJECT NUMBER: | 2021153 |
| DESIGNED BY: | M.KHARAKH |
| DRAWN BY: | M.KHARAKH |
| CHECKED BY: | K.MARTIN |

CMP-010

SHEET 10 OF 11





HOWARD STEIN HUDSON
11 Beacon Street, Suite 1010
Boston, MA 02108
www.hshassoc.com

SIGN SUMMARY

| IDENTIFICATION NUMBER | SIZE OF SIGN (INCHES) | | UNIT AREA SF | TEXT | TEXT DIMENSIONS | NUMBER OF SIGNS REQUIRED | COLOR | POST SIZE AND NUMBER REQUIRED PER SIGN | AREA IN SQUARE FEET |
|-----------------------|-----------------------|--------|--------------|------|-------------------------------|--------------------------|---------------------------|--|---------------------|
| | WIDTH | HEIGHT | | | | | | | |
| M4-10R | 24" | 8" | 1.33 | | SEE THE MUTCD STANDARD DETAIL | 1 | SEE MUTCD STANDARD DETAIL | MUTCD SPEC. MOUNT ON MAST ARM/POST | 1.33 |
| R7-1 | 12" | 18" | 1.50 | | | 2 | | | 3.00 |
| R7-1L | 12" | 18" | 1.50 | | | 2 | | | 3.00 |
| R7-1R | 12" | 18" | 1.50 | | | 2 | | | 3.00 |
| R9-9 | 24" | 12" | 2.00 | | | 1 | | | 2.00 |
| R9-10 | 24" | 12" | 2.00 | | | 1 | | | 2.00 |
| R9-11L | 24" | 18" | 3.00 | | | 1 | | | 3.00 |
| R9-11L(MOD) | 24" | 18" | 3.00 | | | 1 | | | 3.00 |
| R11-2 | 48" | 30" | 10.00 | | | 1 | | | 10.00 |
| R11-4 | 60" | 30" | 12.50 | | | 1 | | | 12.50 |
| W1-4L | 36" | 36" | 9.00 | | | 2 | | | 18.00 |
| W5-1 | 36" | 36" | 9.00 | | | 2 | | | 18.00 |

440 GRANITE AVE
MILTON, MASSACHUSETTS, 02186
NORFOLK COUNTY

DRAFT CMP

SIGN SUMMARY

| | |
|----------------|--------------|
| DATE: | OCT 12, 2021 |
| OBJECT NUMBER: | 2021153 |
| SIGNED BY: | M.KHARAKH |
| DRAWN BY: | M.KHARAKH |
| CHECKED BY: | K.MARTIN |

CMP-011