

ATTACHMENT F

CONTRACT FOR DESIGNER SERVICES

AMENDMENT NO. 31 _____

WHEREAS, the Town of Brookline _____ (“Owner”) and William Rawn Associates, Architects Inc. _____, (the “Designer”) (collectively, the “Parties”) entered into a Contract for Designer Services for the Brookline High School Expansion _____ Project (Purchase Order # 21803108) at the Brookline High _____ School on July 6, 2018 _____.
“Contract”; and

WHEREAS, effective as of April 5, 2023 the Parties wish to amend the Contract:

NOW, THEREFORE, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner hereby authorizes the Designer to perform services for the Design Development Phase, the Construction Phases, and the Final Completion Phase of the Project, pursuant to the terms and conditions set forth in the Contract, as amended.
2. For the performance of services required under the Contract, as amended, the Designer shall be compensated by the Owner in accordance with the following Fee for Basic Services:

Fee for Basic Services:	Original Contract*	After this Amendment:
		Amendment fee: \$8,885.00
Feasibility Study Phase	\$ _____	\$ _____
Schematic Design Phase	\$ _____	\$ _____
Design Development Phase	\$ _____	\$ _____
Construction Document Phase	\$ _____	\$ _____
Bidding Phase	\$ _____	\$ _____
Construction Phase	\$ _____	\$ _____
Completion Phase	\$ _____	\$ _____
*Includes previous Amendments		
Total Fee	<u>\$15,800,448.00</u>	<u>\$15,809,333.00</u>

This Amendment is a result of:

1. Tappan Streetscape construction change from Summer 2022 to Summer 2023

3. The Construction Budget shall be as follows:

Original Budget: \$n/a _____

Amended Budget \$n/a _____

4. The Project Schedule shall be as follows:

Original Schedule: \$n/a _____

Amended Schedule \$n/a _____

5. This Amendment contains all of the terms and conditions agreed upon by the Parties as amendments to the original Contract. No other understandings or representations, oral or otherwise, regarding amendments to the original Contract shall be deemed to exist or bind the Parties, and all other terms and conditions of the Contract remain in full force and effect.

IN WITNESS WHEREOF, the Owner, with the prior approval of the Authority, and the Designer have caused this Amendment to be executed by their respective authorized officers.

OWNER

(print name)

(print title)

By _____
(signature)

Date _____

DESIGNER

Andrew Jonic
(print name)

Associate Principal
(print title)

By



(signature) _____

Date 4/5/23 _____

Tony Guigli
Project Administrator
Town of Brookline Building Department
Brookline Town Hall
333 Washington Street
Brookline, MA 02445

April 4, 2023

Project Name: Brookline High School Expansion Project

Re: Contract Amendment #31 – Tappan Streetscape Reimbursement for Town Prints & Construction Phasing Drawings

Dear Tony,

Prior to issuance of the Tappan Streetscape Bid Documents, the Town of Brookline requested a change to the construction schedule to increase the likelihood bids for the project would be submitted. The construction schedule duration has changed from 3 months (June, July, August) to 4.5 months (Mid-April, May, June, July, and August). Our team's Construction Administration fee, approved by the Commission in Contract Amendment #30 is a Not to Exceed fee (NTE) based on a 3-month schedule. Invoices associated with CA #30 will be billed on an hourly basis. Per our agreement with the Commission, we will assess our remaining fees prior to the June Building Commission meeting. It is not clear at this time if we will submit a request for additional services due to the additional 1.5 months of construction.

Our traffic engineer, HSH, is responsible for the construction phasing drawings included in the bid documents. The Phasing drawings were revised based on the new 4.5 month construction schedule timeline. This Contract Amendment proposal is for HSH's additional effort to meet with DPW and the High School on two occasions and to update the phasing plans.

Scope #1: Work performed by HSH to revise the Construction Phasing Drawings

The phasing drawings were modified to start construction in April, rather than after the school year ends in June. HSH's proposal includes drafting and meeting time required to update the bid documents. Please see HSH's attached proposal for more information.

HSH Traffic Engineer: \$6,344

WRA 10% Admin.: \$634

Subtotal: \$6,978

Reimbursable Expenses per Article 9.1.2:

The Department of Public Works requested multiple pre-bid photocopies of draft documents for review and comment. Per Article 9.1.2 we have included the printing and delivery costs for prints above and beyond the (2 sets) noted in the contract.

• December 8, 2022: (3) Drawing sets & (3) Spec Manuals for the Town	\$112.04
• December 23, 2022: (2) Drawing sets for Tony Guigli & Rob King	\$259.08 (in contract)
• January 14, 2023: (2) Drawing sets for Rob King	\$182.41
• January 20, 2023 (8) Drawing sets for Rob Kefalas:	\$738.01
• March 18, 2023 (10) Drawing sets for Rob Kefalas:	\$701.12
	Subtotal: \$1,733.58
	10%: \$ 173.00
	Total: \$1,907.00

ARTICLE 9: REIMBURSABLE EXPENSES

9.1 For coordination and responsibility for the services, materials and costs described in 9.1.1 through 9.1.6, the Designer shall be reimbursed its actual costs and those of its Subconsultants, supported by invoices or receipts, plus 10%. Exhibit A identifies a Reimbursables amount as part of the Total Fee. The following are reimbursable expenses, when authorized by the Owner:

9.1.1 The actual cost to the Designer for Subconsultants and for additional tests under 4.11 provided, however, that reimbursement for such costs shall not be made unless the rates of compensation, the total estimated cost of the services and the scope of work for said services shall have been previously approved in writing by the Owner. See Exhibit A for assumed testing scope included in the Reimbursable Amount. Scope beyond those amounts would be treated as an additional service fee.

9.1.2 The cost of printing more than nine (9) sets of design submittals for a CM at Risk project, or more than eight (8) sets of design submittals for a project pursuant to G.L.c. 149, or more than two electronic versions thereof per design submission deliverable phase or sub-phase.

CA #31 Fee Summary

1. Scope 1 HSH Phasing Drawings:	\$6,978.00
2. Reimbursable Expenses: Streetscape Prints	\$1,907.00
3. CA #31 Total:	\$8,885.00

Regards,



Andy Jonic, AIA
 Associate Principal
 William Rawn Associates, Architects Inc.
 Attachments: Proposals



March 9, 2023

Mr. Andrew Jonic
Senior Associate
William Rawn Associates, Architects Inc.
10 Post Office Square, Suite 1010
Boston, MA 02109

**Re: Brookline High School Expansion, Brookline, Massachusetts
Traffic Engineering and Design Consulting Services – Change Order**

Dear Andrew:

Howard Stein Hudson (HSH) is pleased to continue supporting William Rawn Associates (WRA) with traffic engineering services related to the Brookline High School (BHS) expansion (the “Project”). As we understand it, the Project’s offsite construction remains ongoing through the summer of 2023. As discussed, HSH has prepared a request for additional fees to address the Town of Brookline construction schedule timeline and to update construction phasing drawings. This letter proposal outlines both the additional traffic engineering consulting services provided for the Project by HSH to date and the anticipated levels of effort for the following ongoing and new tasks.

- Task 1 – Tappan Street Bike Lane (complete)
- Task 2 – Tappan Street Parking Stripping (complete)
- Task 3 – Traffic Signal Design (complete)
- Task 4 – Construction Phase Services (ongoing)
- Task 5 – Meeting and Agency Coordination (ongoing)
- Task 6 – Construction Staging Updates (new task)

The section that follows presents a status of work completed to date for the tasks within each of the above Phases, along with additional efforts and fees requested as appropriate by task.

Scope and Status of Existing Services

Task 1. Tappan Street Bike Lane

This task is complete. No additional fee requested.



Task 2. Tappan Street Parking Stripping

This task is complete. No additional fee requested.

Task 3. Traffic Signal Design

This task is complete. No additional fee requested.

Task 4. Construction Phase Services

As requested, HSH has modified the expected construction phase services to cover an extended construction period. Per the Town of Brookline direction, construction will begin in April and extend through the end of August 2023, an addition of two months to the original three-month construction schedule.

HSH has been requested to identify construction phase services previously rendered for the traffic signal scope of work that had previously been segmented into a separate construction bid document package and completed during Summer 2022. HSH completed \$500 in labor during this period.

HSH proposes a total Not To Exceed allowance of \$10,000 for the remainder of this Task; this includes an additional allowance of \$1,300 in addition to the \$8,700 of fees previously approved.

Task 5. Meeting and Agency Coordination

No additional fee requested.

Task 6. Construction Staging Updates

Based on a request from the Town of Brookline, HSH has prepared updates to construction phasing and temporary traffic control drawings. Through coordination with the Town of Brookline Department of Public Works, Transportation Department, and Brookline High School, HSH updated a series of two sets of traffic control drawings in preparation for the City's January 6 bid documents.

HSH has revised staging to combine phases; updated backgrounds to reflect other disciplines; and coordinated work zone areas, access to buildings, pedestrian detours, and laydown and parking areas for the construction contract. Coordination occurred during two meetings (December 14, 2022, and January 11, 2023).

HSH requests an amount of \$6,344 in the form of a lump sum as additional fee for this task.

CA #31 Proposed Additional Service



Fee for Services

As noted by task in the following table, in support of past and prior work under, we are requesting an additional lump sum of \$6,344 and an additional allowance of \$1,300, totaling \$7,644, bringing the total contract fee to \$72,144. Fees will be billed on a **Time and Materials** basis and in accordance with the attached fee schedule. Materials or reimbursable (direct) expenses will be billed at cost. Reimbursable expenses do not include permit filing fees.

Task	Contract CA #18 Budget	Additional fixed fee request for work through 3/6/2023	Total for work through 3/6/2023	Additional Allowance Request	Contract Total
Task 1 – Tappan Street Bike Lanes	\$7,750	\$0	\$7,750	\$0	\$7,750
Task 2 – Tappan Street Parking Striping	\$4,750	\$0	\$4,750	\$0	\$4,750
Task 3 – Traffic Signal Design	\$8,500	\$0	\$8,500	\$0	\$8,500
Task 4 – Construction Phase Services	\$8,700	\$0	\$8,700	\$1,300	\$10,000
Task 5 – Meeting Attendance/Agency Coordination	\$34,300	\$0	\$34,300	\$0	\$34,300
Task 6 – Construction Staging Updates	-	\$6,344	\$6,344	\$0	\$6,344
Expenses	<u>\$500</u>	<u>\$0</u>	<u>\$500</u>	<u>\$0</u>	<u>\$500</u>
TOTAL CONTRACT	\$64,500	\$6,344	\$70,844	\$1,300	\$72,144

Materials or reimbursable (direct) expenses will be billed at cost plus ten percent. Materials or reimbursable expenses are actual expenditures made by HSH in the interest of the project and include but are not limited to printing, photocopying, delivery charges, postage, research materials, local transportation, and any other expenses incurred in the interest of the project. Reimbursable expenses do not include permit filing fees.

CA #31 Additional Service Request

Meetings are budgeted as outlined above; additional meetings, if required, will be billed at the hourly rates shown in the attached rate schedule. Additional team and agency meetings generally cost between \$500 and \$750 per meeting, depending on the duration of each meeting and the staffing required. Additional community meetings range higher at up to \$1,250 per meeting depending on the need to provide supporting materials/graphics and the overall length of the meeting and any



possible team preparation. All additional meetings will be invoiced on a time and materials basis based solely on hours expended as well as any travel costs.

While HSH feels the scope of work and associated fee provided in this proposal is appropriate for this type and size of development in this location and that it will be acceptable to reviewing agencies, should the scope of work change either by request of the Client, reviewing agencies, or the community, HSH will provide an additional services request for advance review and approval by the Client.

Terms

Payment of Services: The project work is billable monthly on a time and materials basis, such that if the hours are not spent, you will not be billed. Invoices are due within thirty (30) days of receipt, regardless of whether approvals are granted. Interest of one and one-half percent (1.5%) will be charged per month on unpaid bills after ninety (90) days. If the scope should significantly change or if the schedule is extended past June 30, 2023, we will revise the budget accordingly and resubmit it for your approval. HSH does not accept payment in cash. Payment by check or Automated Clearing House (ACH) is preferred.

Termination: Consultant services may be terminated by either party with or without cause upon 10 days advance written notice. Regardless of which party shall affect termination, Client shall, within 30 calendar days of termination, pay HSH for services rendered and all costs incurred up to the time of termination, as well as those costs associated with the termination itself, if any, in accordance with HSH's then-prevailing labor rates. Upon termination of services and full payment of consultant fees, HSH will release all work product related to this contract.

Indemnification: Client and HSH will indemnify and each hold harmless each other's employees, officers, directors, and subconsultants from and against all claims and actions, including reasonable attorney fees, arising out of or related to damages or injuries to persons or property related or connected to acts of each other or their employees, officers, directors, subconsultants or agents.

Insurance: During the period that services are performed under this Agreement, HSH will maintain the following insurance: (1) Workers Compensation coverage in accordance with the laws of the Commonwealth of Massachusetts; (2) Commercial General Liability with a limit of \$1,000,000 per occurrence and a \$2,000,000 general aggregate; (3) Non-owned and Hired Automobile Liability coverage with a combined single limit of \$1,000,000 and (4) Professional Liability coverage with a \$5,000,000 aggregate limit (claims made basis). Client agrees that HSH will not be liable for any loss, damage, or liability arising out of this Agreement beyond the limits of available insurance coverage.



Permits/Licenses/Approvals: HSH is committed to providing technical support to facilitate project progress and approval. However, there are often circumstances beyond HSH's control and responsibility that may affect a project's ability to obtain permits/licenses or necessary written approvals. Therefore, unless indicated within this proposal, HSH does not guarantee our ability to obtain any project permits/licenses or approvals from any agency having jurisdiction over the project.



Approval

Should this proposal be acceptable to you, this letter can serve as a contract by an authorized signature below and returning a copy to us. Should our understanding of the project be incorrect or incomplete, or should you have any revisions or changes, please contact me directly and we will incorporate them as directed. Thank you for your continuing confidence in HSH; we look forward to working with you.

Sincerely,

Thomas A. Stokes, P.E.
President and CEO

Approved for the following:

- Total Contract fee approved in the amount of \$72,144.

William Rawn Associates

By: _____

Date: _____



Hourly Billing Rates through June 30, 2023

Project Role	Hourly Rate
Co-op/Administrative Assistant	\$85 - \$140
Graphics/Production	\$100 - \$165
Junior Engineer/Planner	\$105 - \$170
Engineer/Planner	\$135 - \$210
Senior Engineer/Planner	\$175 - \$275
Principal/Senior Advisor	\$210 - \$395

Rates subject to annual adjustment on July 1, 2023.

1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS INCLUDING MASSDOT REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD AND MASSDOT REVISIONS.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
6. CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
7. THE FIRST TEN REFLECTORIZED PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING LIGHTS.
8. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
9. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
10. MINIMUM LANE WIDTH IS TO BE 11 FEET (3.3m) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
11. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
12. REFER TO SHEET 3 GENERAL NOTES FOR ADDITIONAL NOTES REGARDING TEMPORARY TRAFFIC CONTROL PLANS.
13. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL NOT COVERED IN THE PLAN SET SHALL REFER TO MASSDOT "STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TRAFFIC MANAGEMENT PLANS".
14. CONTRACTOR SHALL REMOVE ANY EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED TEMPORARY MARKINGS AND SHALL BAG OR REMOVE SIGNAGE THAT CONFLICTS WITH CONSTRUCTION PERIOD TRAFFIC PATTERNS.
15. THE CONTRACTOR SHALL PROVIDE FOR ADEQUATE BARRIER DEFLECTION SPACE WITHIN THE WORK ZONE. LIMITS OF WORK ZONE SHOWN ON PLANS ARE FOR INFORMATIONAL PURPOSES.
16. CONTRACTOR SHALL MAINTAIN ADA-COMPLIANT PEDESTRIAN ACCESS AT ALL TIMES USING PEDESTRIAN MANAGEMENT GUIDANCE SYSTEMS AT WORK ZONES. ACCESS SHALL BE MAINTAINED ALONG ALL SIDEWALKS AND CROSSWALKS, TO ALL ABUTTERS, AND TO ALL MBTA BUS STOPS OR TRAIN STATIONS. ANY PEDESTRIAN DETOURS SHALL INCLUDE A FULLY ADA-COMPLIANT PEDESTRIAN DETOUR ROUTE WITH PROPER BARRICADES, RAILINGS, RAMPS, AND SIGNAGE.
17. IN GENERAL, NO WORK SHALL BE PERFORMED WITHIN THE TRAVELED WAY DURING PEAK PERIODS OF 6:30-9:00 AM AND 3:00-6:00 PM. WHEN SCHOOL IS OUT, WORK HOURS SHALL BE 7:00 AM - 4:00 PM MONDAY THROUGH FRIDAY. CONTRACTOR SHALL REMOVE TEMPORARY TRAFFIC CONTROLS WHEN WORK IS NOT BEING PERFORMED AND SHALL ENSURE THAT THE AREA IS SAFE FOR VEHICULAR TRAVEL. IF LANE CLOSURES ARE TO BE USED FOR AN EXTENDED DURATION THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL AT ALL TIMES SEEK APPROVAL FROM THE TOWN OF BROOKLINE AND COORDINATE WITH BROOKLINE HIGH SCHOOL AND MBTA BUS OPERATIONS FOR ALL LANE CLOSURES.

RECOMMENDED ADVANCE WARNING SIGN MINIMUM SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
MOST OTHER ROADWAYS	500 FEET	500 FEET	500 FEET

BASED ON: TABLE 6C-1 MUTCD LATEST EDITION

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FEET MINIMUM, 100 FEET MAXIMUM
DOWNSTREAM TAPER	50 FEET MINIMUM, 100 FEET MAXIMUM

NOTE: USE TABLE 6C-4 SHOWN BELOW TO CALCULATE L
SOURCE: TABLE 6C-3 2009 MUTCD

FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S)	TAPER LENGTH L (FT)
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	$L = WS$

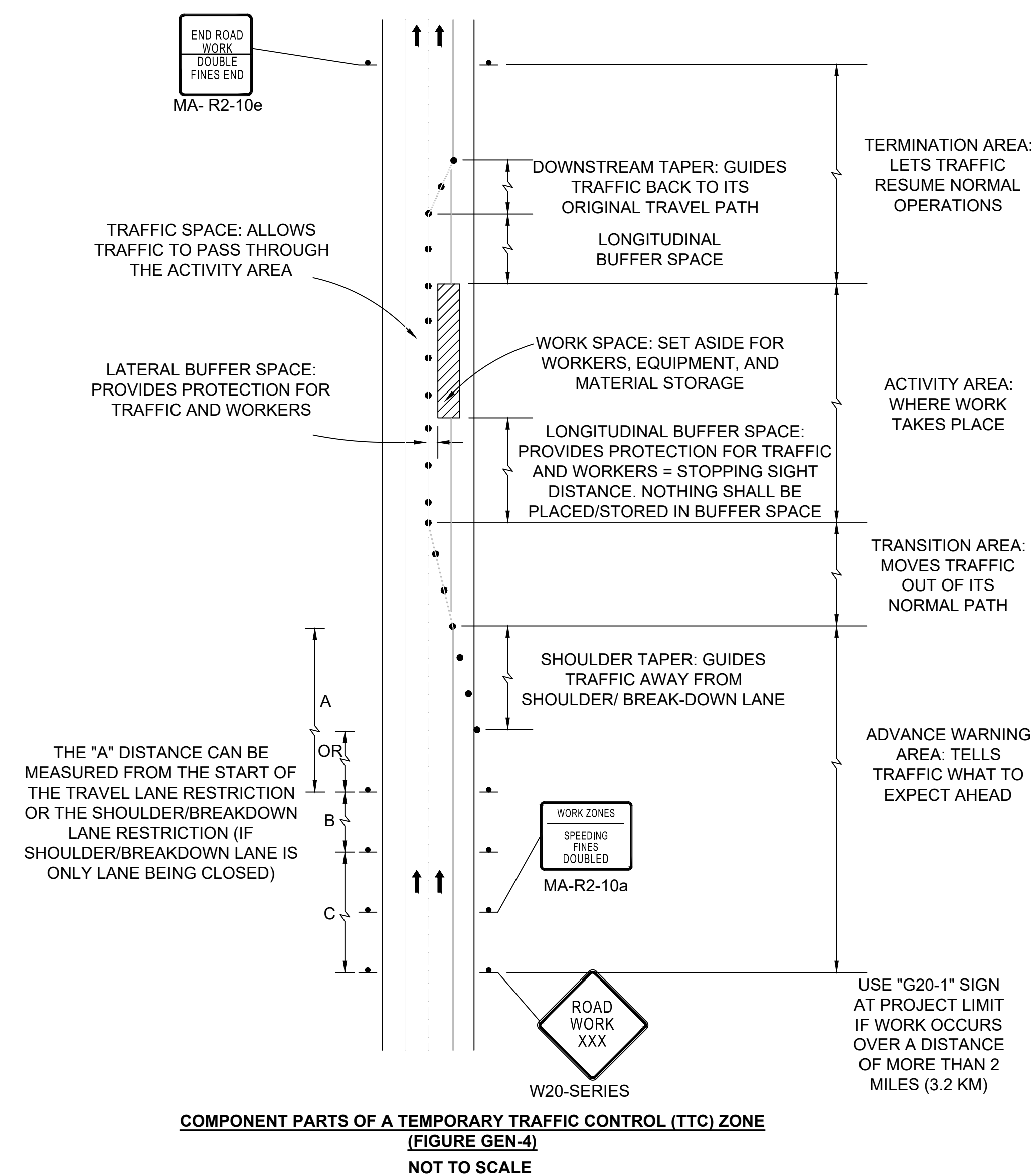
SOURCE: TABLE 6C-4 2009 MUTCD

L = TAPER LENGTH IN FEET

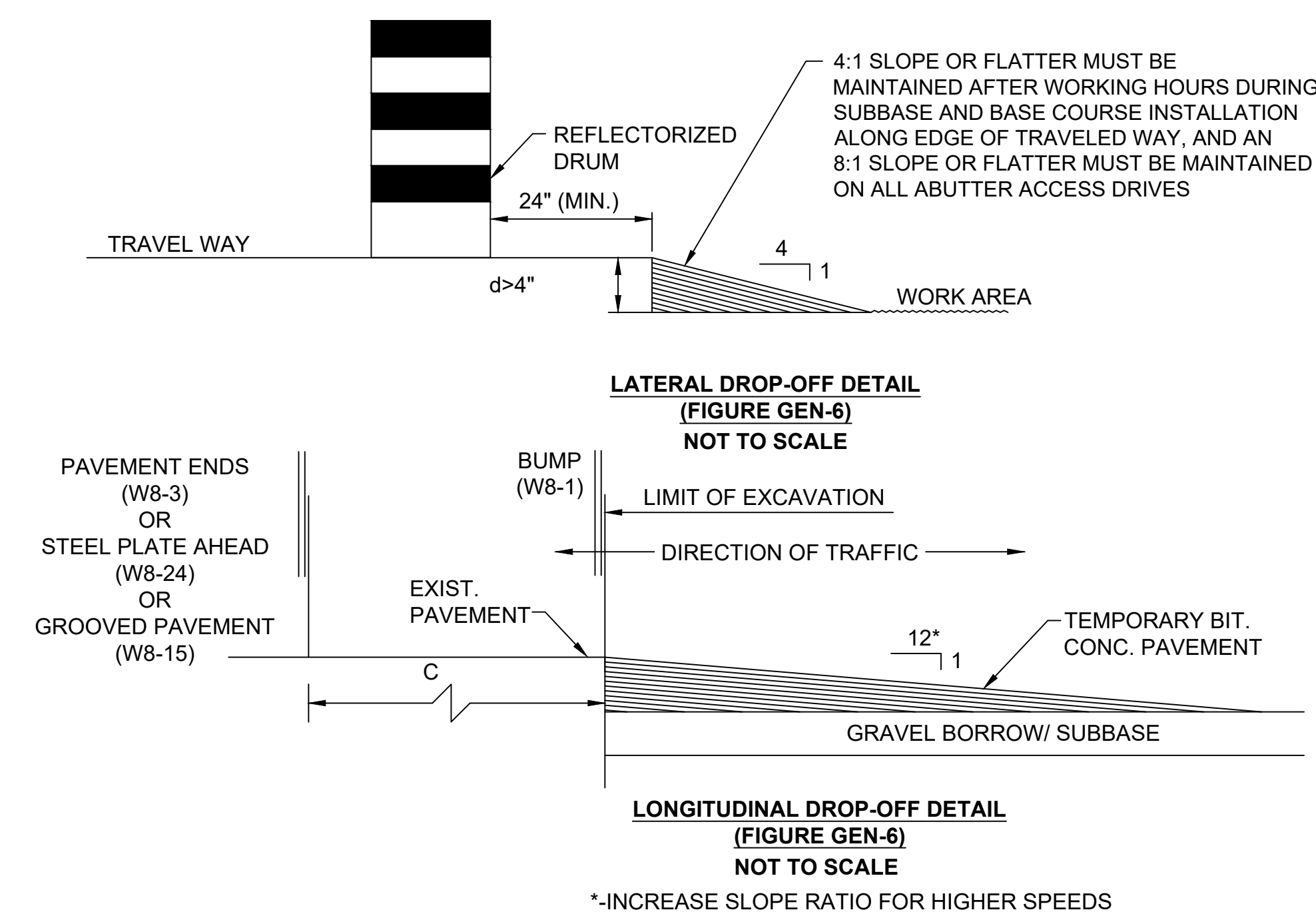
W = WIDTH OF OFFSET IN FEET

S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH

WORKZONE DISTANCES



COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL (TTC) ZONE (FIGURE GEN-4) NOT TO SCALE



*INCREASE SLOPE RATIO FOR HIGHER SPEEDS



WRA PROJECT # 21706

TOWN OF BROOKLINE
BROOKLINE HIGH SCHOOL
EXPANSION
BROOKLINE, MA 02445

TAPPAN STREET IMPROVEMENTS

ARCHITECT
William Rawn Associates, Architects, INC. (617) 423-3470
27 School Street, Second Floor
Boston, Massachusetts 02108

LANDSCAPE ARCHITECT
Lemon Brooke LLC. (978) 222-3700
31 Oxbow Road
Concord, Massachusetts 01742

CIVIL ENGINEER
Nitsch Engineering, Inc. (617) 338-0063
2 Center Plaza, Suite 430
Boston, Massachusetts 02108

TRAFFIC CONSULTANT
Howard Stein Hudson (617) 482-7080
11 Beacon St
Boston, Massachusetts 02108

IRRIGATION CONSULTANT
Aqueous Consultants (978) 470-1695
2 Dundee Park Drive
Andover, Massachusetts 01810

CONTRACT DOCUMENT SET
JANUARY 6, 2023

REV. NO.	DATE	REVISION

DRAWING TITLE:
TEMPORARY TRAFFIC CONTROL PLAN

DRAWN BY: CM	
CHECKED BY: RB	
SCALE: AS SHOWN	
DATE: 1/6/23	

DRAWING NUMBER:
TTCP-001



WRA PROJECT # 21706

TOWN OF BROOKLINE
BROOKLINE HIGH SCHOOL
EXPANSION
 BROOKLINE, MA 02445

TAPPAN STREET IMPROVEMENTS

ARCHITECT
 William Rawn Associates, Architects, INC. (617) 423-3470
 27 School Street, Second Floor
 Boston, Massachusetts 02108

LANDSCAPE ARCHITECT
 Lemmon Brooke LLC. (978) 222-3700
 31 Oxbow Road
 Concord, Massachusetts 01742

CIVIL ENGINEER
 Nitsch Engineering, Inc. (617) 338-0063
 2 Center Plaza, Suite 430
 Boston, Massachusetts 02108

TRAFFIC CONSULTANT
 Howard Stein Hudson (617) 482-7080
 11 Beacon St
 Boston, Massachusetts 02108

IRRIGATION CONSULTANT
 Aqueous Consultants (978) 470-1695
 2 Dundee Park Drive
 Andover, Massachusetts 01810

CONTRACT DOCUMENT SET
JANUARY 6, 2023

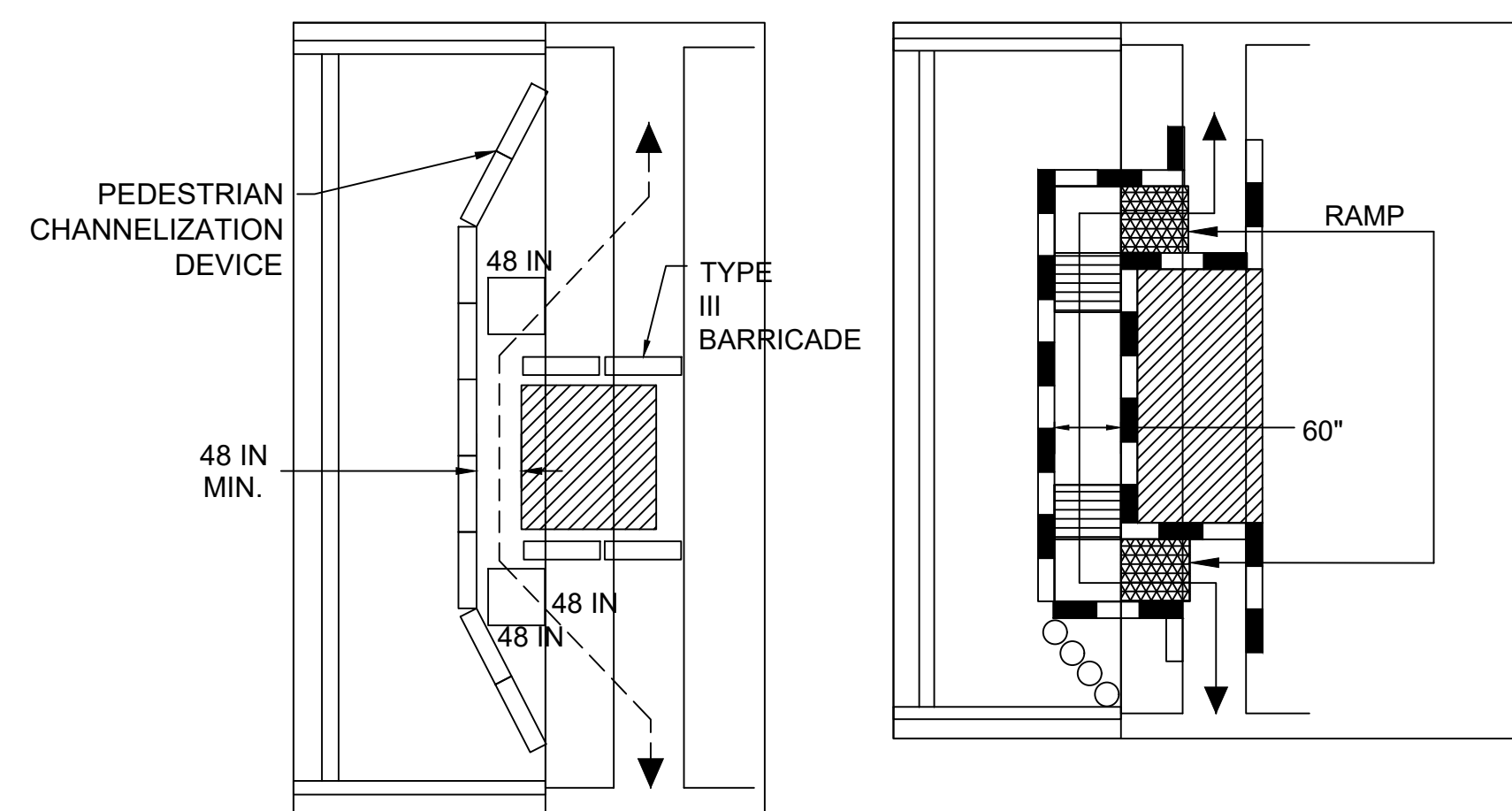
REVISIONS:		
REV. NO.	DATE	REVISION

DRAWING TITLE:
TEMPORARY TRAFFIC CONTROL PLAN

DRAWN BY: CM	
CHECKED BY: RB	
SCALE: AS SHOWN	
DATE: 1/6/23	

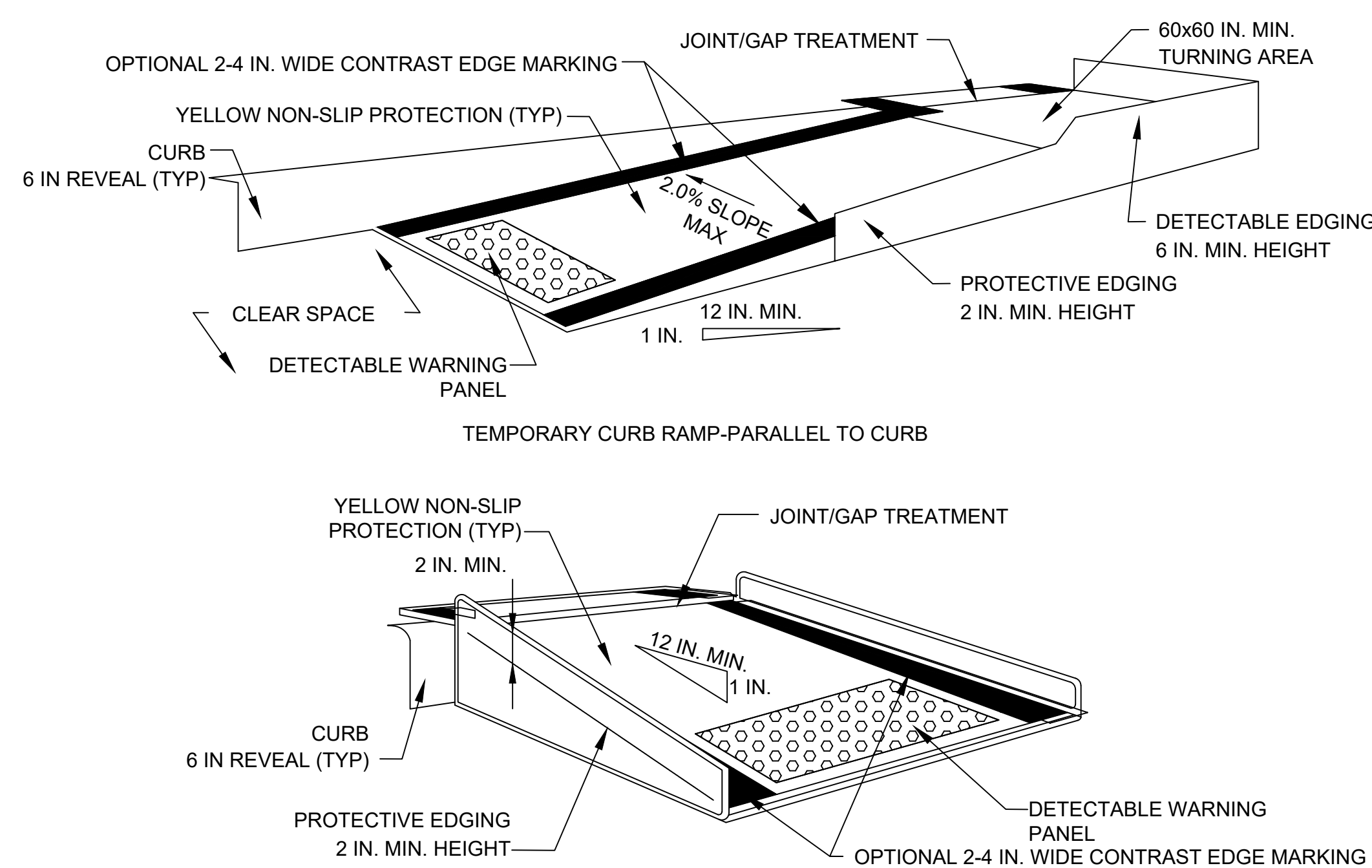
DRAWING NUMBER:

TTCP-002



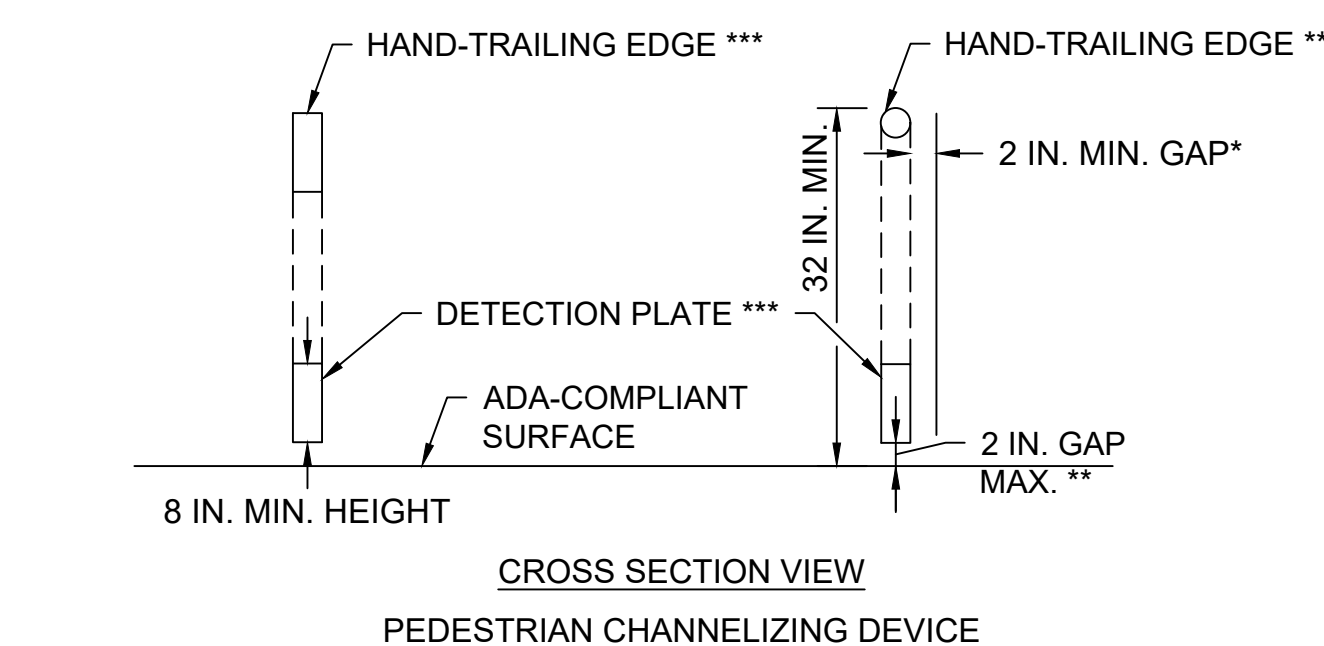
- NOTES:**
- WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED IN A TTC ZONE, TEMPORARY FACILITIES SHALL BE PROVIDED AND THEY SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.
 - A PEDESTRIAN CHANNELIZATION DEVICE THAT IS DETECTABLE BY A PERSON WITH A VISUAL DISABILITY TRAVELING WITH THE AID OF A LONG CANE SHALL BE PLACED ALONG THE FULL LENGTH OF THE TEMPORARY PEDESTRIAN ROUTE.
 - WHEN USED, TEMPORARY RAMPS SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT.
 - THE ALTERNATE PATHWAY SHOULD HAVE A SMOOTH CONTINUOUS HARD SURFACE FOR THE ENTIRE LENGTH OF THE TEMPORARY PEDESTRIAN FACILITY.
 - THE TEMPORARY SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THE SIDEWALK EXCEEDS 200 FEET THEN A 5 FOOT BY 5 FOOT PASSING ZONE SHALL BE PROVIDED NEAR THE MID-POINT OF THE CLOSURE.
 - THE PROTECTIVE REQUIREMENTS OF A TTC WORK ZONE MAY HAVE AN IMPACT IN DETERMINING THE NEED FOR TEMPORARY TRAFFIC BARRIERS AND THEIR USE IN PROVIDING PEDESTRIAN DELINEATION SHOULD BE BASED ON ENGINEERING JUDGMENT. ON-DEMAND PEDESTRIAN ASSISTANCE PERSONNEL TO ASSIST WITH NAVIGATION AROUND THE CLOSURE/WORK AREA MAY BE CONSIDERED AS AN OPTION IN PLACE OF PROVIDING ADA/AB DEVICES FOR WORK FOR CLOSURES LASTING 4 HOURS OR LESS.
 - CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN; VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE. THESE DETAILS ARE USED IN CONJUNCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DETERMINED BY THE ENGINEER.

PEDESTRIAN DETAILS
(FIGURE PED-3)
 NOT TO SCALE



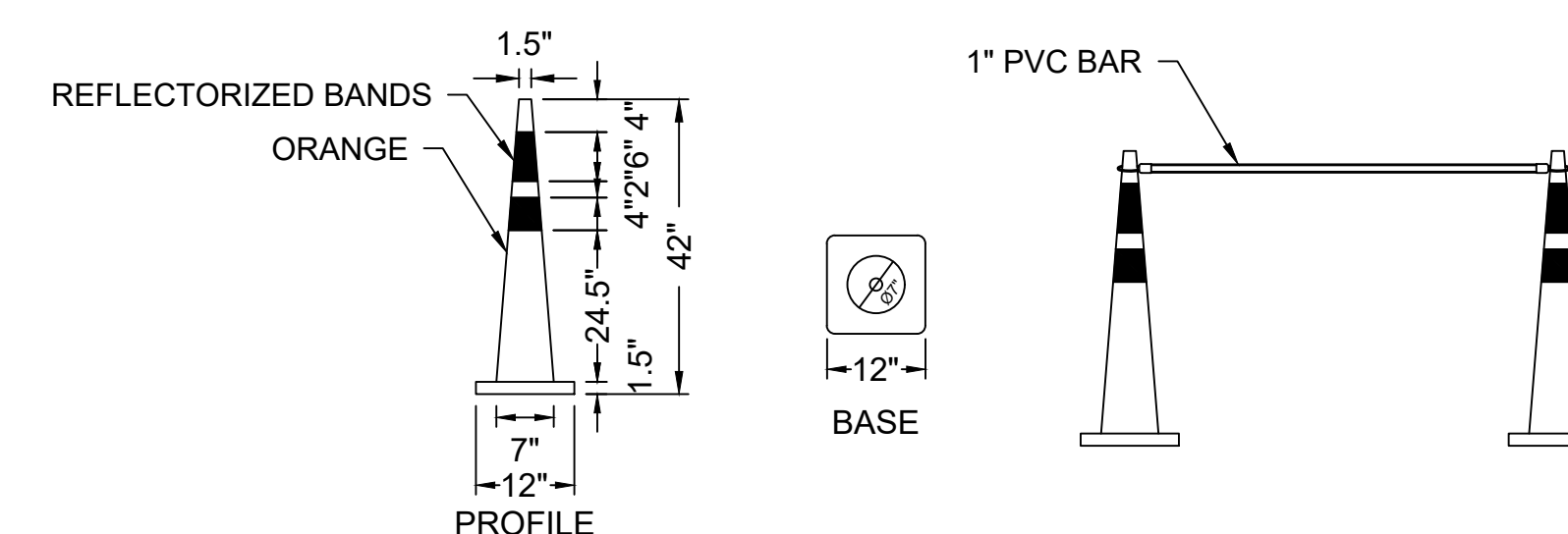
- NOTES:**
- CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE, AND NON-SLIP SURFACE.
 - PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
 - PROTECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
 - THE CURB RAMP WALKWAY AND LANDING AREA SURFACE SHALL BE OF A SOLID CONTINUOUS CONTRASTING COLOR ABUTTING UP TO THE EXISTING SIDEWALK.
 - CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.
 - CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
 - WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
 - LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
 - CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.
 - IF A TEMPORARY PEDESTRIAN RAMP LEADS TO A CROSSWALK, THEN A DETECTABLE WARNING PAD MUST BE ADHERED TO THE BASE OF THE RAMP. IF IT LEADS TO A PROTECTED PEDESTRIAN BYPASS THAT DOES NOT CONFLICT WITH VEHICULAR TRAFFIC, THEN A PAD SHALL NOT BE INSTALLED ON THE RAMP.

PEDESTRIAN DETAILS
(FIGURE PED-1)
 NOT TO SCALE

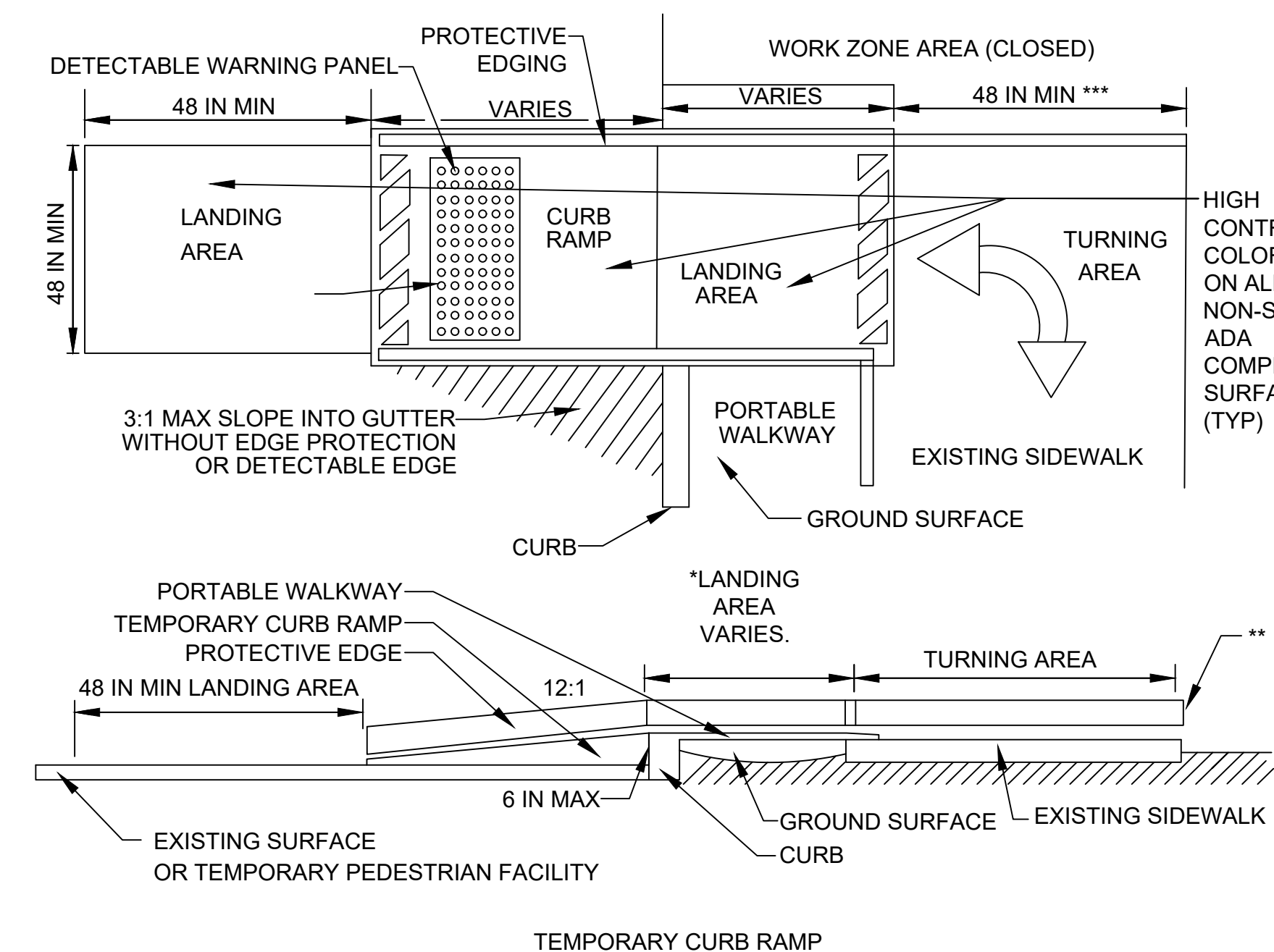


- PEDESTRIAN CHANNELIZING DEVICE**
- * THERE SHALL BE A 2 INCH GAP BETWEEN THE HAND-TRAILING EDGE AND ITS SUPPORT.
 - ** A MAXIMUM 2 INCH GAP BETWEEN THE BOTTOM OF THE BOTTOM RAIL AND THE SURFACE MAY BE USED TO PROVIDE DRAINAGE.
 - *** THE HAND-TRAILING EDGE AND DETECTION PLATE SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF THE PATH SUCH THAT A PEDESTRIAN USER WITH A LONG CANE CAN FOLLOW IT.

PEDESTRIAN DETAILS
(FIGURE PED-4)
 NOT TO SCALE

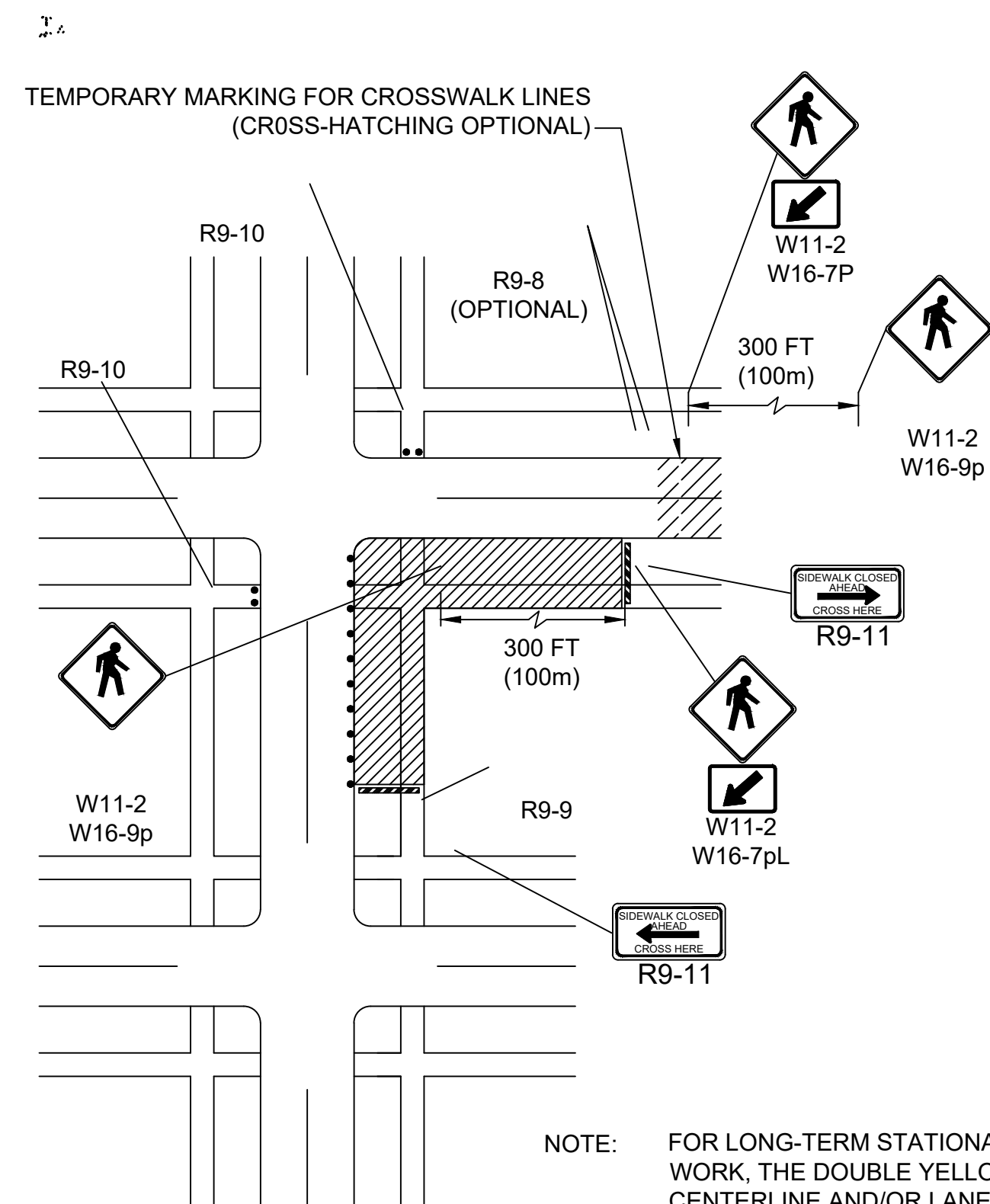


42" TRAFFIC CONE WITH CONE BAR
 NOT TO SCALE



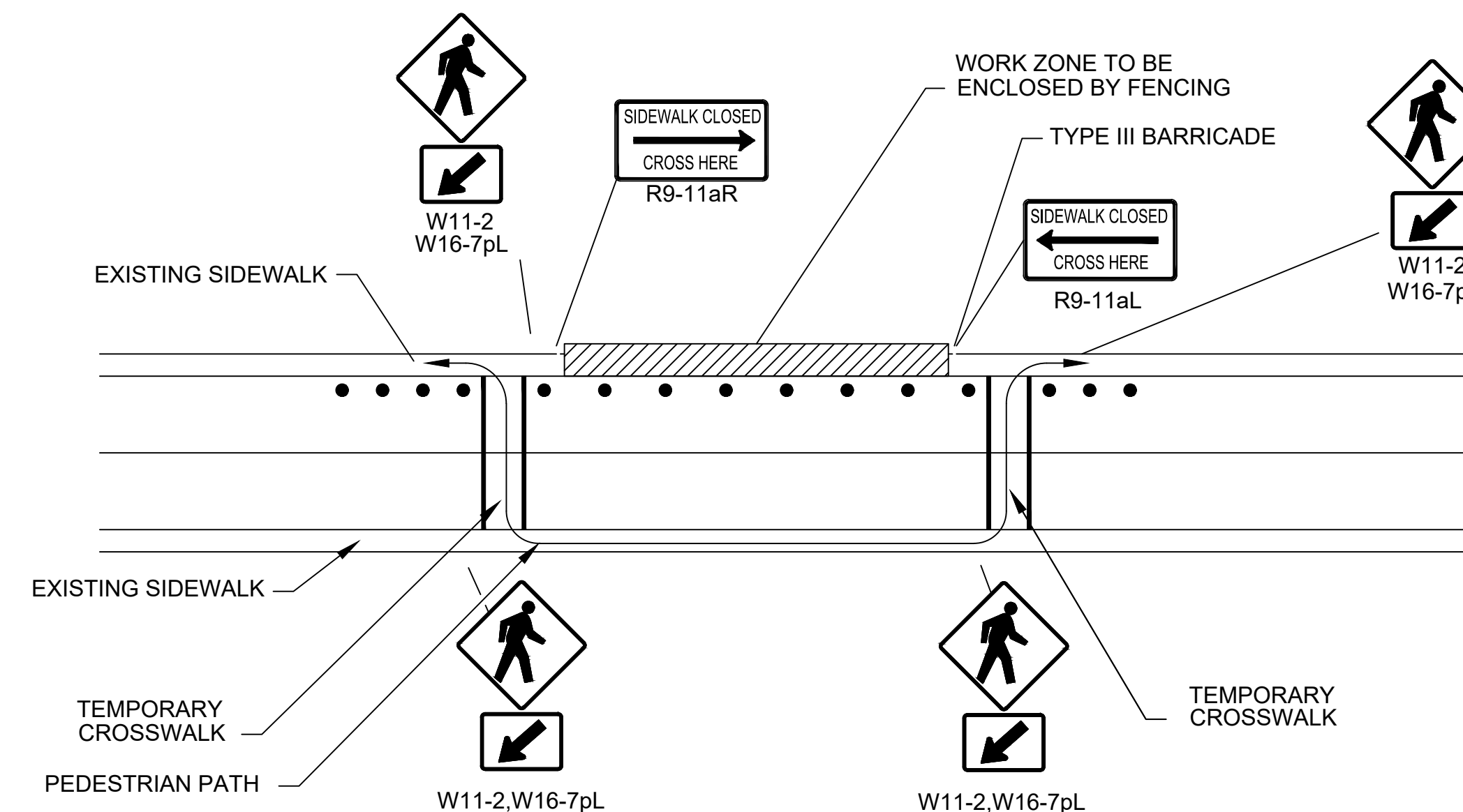
- * LANDING AREA USED TO OVERLAP NON-ADA COMPLIANT SURFACES.
- ** DETECTABLE EDGE REMOVED IF A CONTINUOUS SIDEWALK.
- *** 60 IN. IF AN OBSTRUCTION IS AT BACK OF SIDEWALK.

PEDESTRIAN DETAILS
(FIGURE PED-2)
 NOT TO SCALE



- NOTE:** FOR LONG-TERM STATIONARY WORK, THE DOUBLE YELLOW CENTERLINE AND/OR LANE LINES SHOULD BE REMOVED BETWEEN THE CROSSWALK LINES.

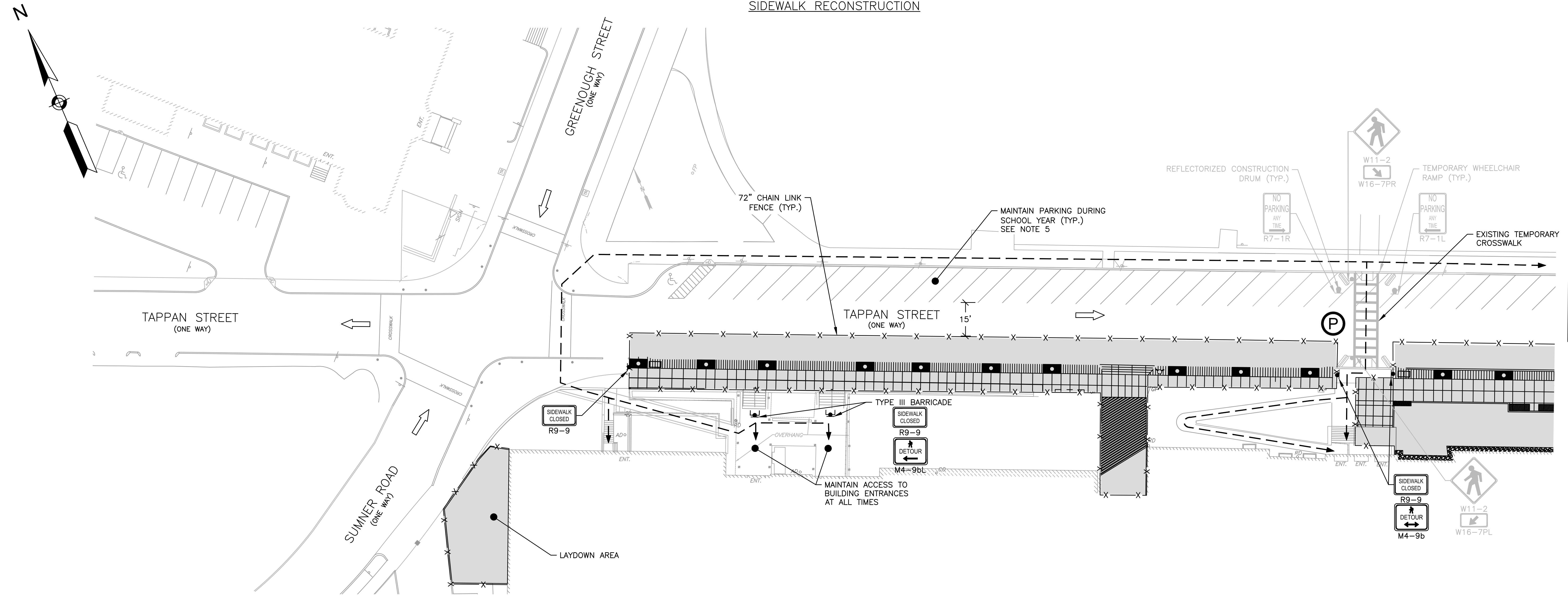
PEDESTRIAN DETOUR
(FIGURE PED-5)
 NOT TO SCALE



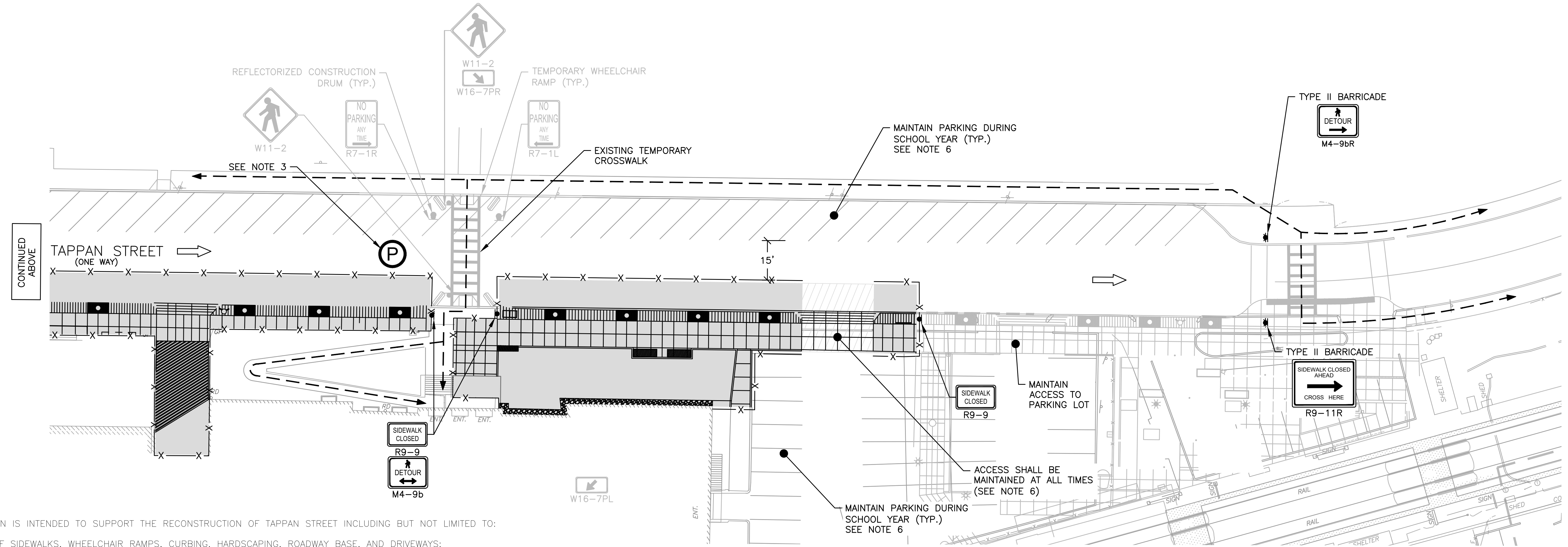
- NOTES:**
- ADDITIONAL ADVANCE WARNING MAY BE NECESSARY.
 - CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN. VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE.
 - STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
 - TEMPORARY CROSSWALKS WITH APPROPRIATE SIGNS SHOULD BE INSTALLED TO CROSS PEDESTRIANS TO THE OPPOSITE SIDE OF THE STREET AS SHOWN IN PEDESTRIAN BYPASS DETAIL, AND AS DIRECTED BY THE ENGINEER. TEMPORARY CURB RAMPS WILL BE REQUIRED AT ALL TEMPORARY CROSSWALK LOCATIONS.
 - BYPASS IS TO BE USED IN CONJUNCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DIRECTED BY THE ENGINEER.
 - THE TEMPORARY SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THIS WALKWAY EXCEEDS 200 FEET THEN A 5 FOOT X 5 FOOT PASSING ZONE. (FOR SHORT TERM SETUPS < 10 HOURS, THIS CONDITION MAY BE WAIVED. A NOTE WOULD NEED TO BE INCLUDED IN THE TTCP THAT STATES HOW THE CONTRACTOR SHOULD ADDRESS THIS ISSUE.)

PEDESTRIAN BYPASS
(FIGURE PED-7)
 NOT TO SCALE

PHASE 1
SIDEWALK RECONSTRUCTION

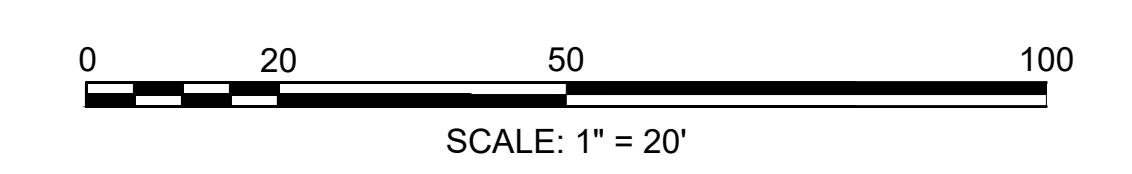
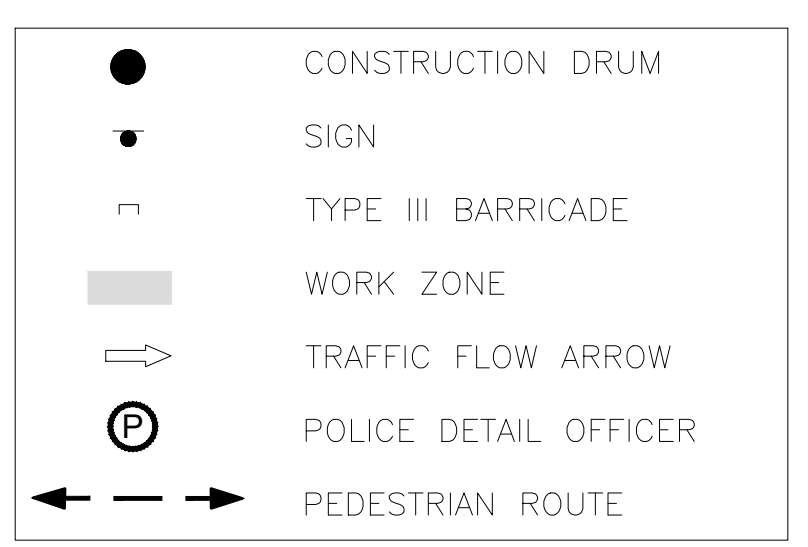


CONTINUED BELOW



WORK TO BE COMPLETED:

1. THE WORK ZONE SHOWN IS INTENDED TO SUPPORT THE RECONSTRUCTION OF TAPPAN STREET INCLUDING BUT NOT LIMITED TO:
 - 1.1. RECONSTRUCTION OF SIDEWALKS, WHEELCHAIR RAMPS, CURBING, HARDSCAPING, ROADWAY BASE, AND DRIVEWAYS;
2. ADDITIONAL WORK MAY BE PERFORMED DURING EACH PHASE THROUGH THE USE OF MUTCD STANDARD TEMPORARY TRAFFIC CONTROL DETAIL WITH PRIOR APPROVAL FROM THE ENGINEER.
3. POLICE OFFICER DETAIL SHALL BE PROVIDED BY THE TOWN OF BROOKLINE, WITH THE OFFICER DETERMINING THE EXACT LOCATION.
4. REFER TO SHEET 20 FOR ADDITIONAL NOTES RELATED TO TEMPORARY TRAFFIC CONTROL.
5. SCHOOL PARKING SHALL BE MAINTAINED AT ALL TIMES DURING SCHOOL YEAR. CONTRACTOR MAY USE PARKING SPACES FOR LAYDOWN BETWEEN JULY 1, 2023 - AUGUST 25, 2023.
6. IN AREAS SHOWN AS RESTRICTED WORKZONES, ACCESS SHALL BE MAINTAINED BY LIMITING DURATIONS AND IMPACTS AS BEST AS PRACTICAL.
7. PHASE 1 WORKZONE IS FOR ACTIVE WORK ONLY. WHEN WORK IS NOT TAKING PLACE, FENCE SHALL BE RELOCATED ADJACENT TO THE WORKZONE SUCH THAT EXISTING NUMBER OF TRAVEL LANES IS RESTORED.
8. CONTRACTOR MAY USE UP TO EIGHT SPACES IN THE TAPPAN STREET GYM PARKING LOT OFF SUMNER ROAD FOR CONTRACTOR PARKING FOR THE DURATION OF THE PROJECT.
9. TOWN OF BROOKLINE TO CONFIRM BUILDING EMERGENCY EGRESS IS NOT IMPACTED BY CONSTRUCTION STAGING PLAN.



WRA PROJECT # 21706

TOWN OF BROOKLINE
BROOKLINE HIGH SCHOOL
EXPANSION
 BROOKLINE, MA 02445

TAPPAN STREET IMPROVEMENTS

ARCHITECT
 William Raw Associates, Architects, INC. (617) 423-3470
 27 School Street, Second Floor
 Boston, Massachusetts 02108

LANDSCAPE ARCHITECT
 Lemon Brooke LLC. (978) 222-3700
 31 Oxbow Road
 Concord, Massachusetts 01742

CIVIL ENGINEER
 Nitsch Engineering, Inc. (617) 338-0063
 2 Center Plaza, Suite 430
 Boston, Massachusetts 02108

TRAFFIC CONSULTANT
 Howard Stein Hudson (617) 482-7080
 11 Beacon St
 Boston, Massachusetts 02108

IRRIGATION CONSULTANT
 Aqueous Consultants (978) 470-1695
 2 Dundee Park Drive
 Andover, Massachusetts 01810

CONTRACT DOCUMENT SET
JANUARY 6, 2023

REVISIONS:		
REV. NO.	DATE	REVISION

DRAWING TITLE:
TEMPORARY TRAFFIC CONTROL PLAN

DRAWN BY: CM	
CHECKED BY: RB	
SCALE: AS SHOWN	DATE: 1/13/2023

DRAWING NUMBER:
TTCP-003



WRA PROJECT # 21706

TOWN OF BROOKLINE BROOKLINE HIGH SCHOOL EXPANSION BROOKLINE, MA 02445

TAPPAN STREET IMPROVEMENTS

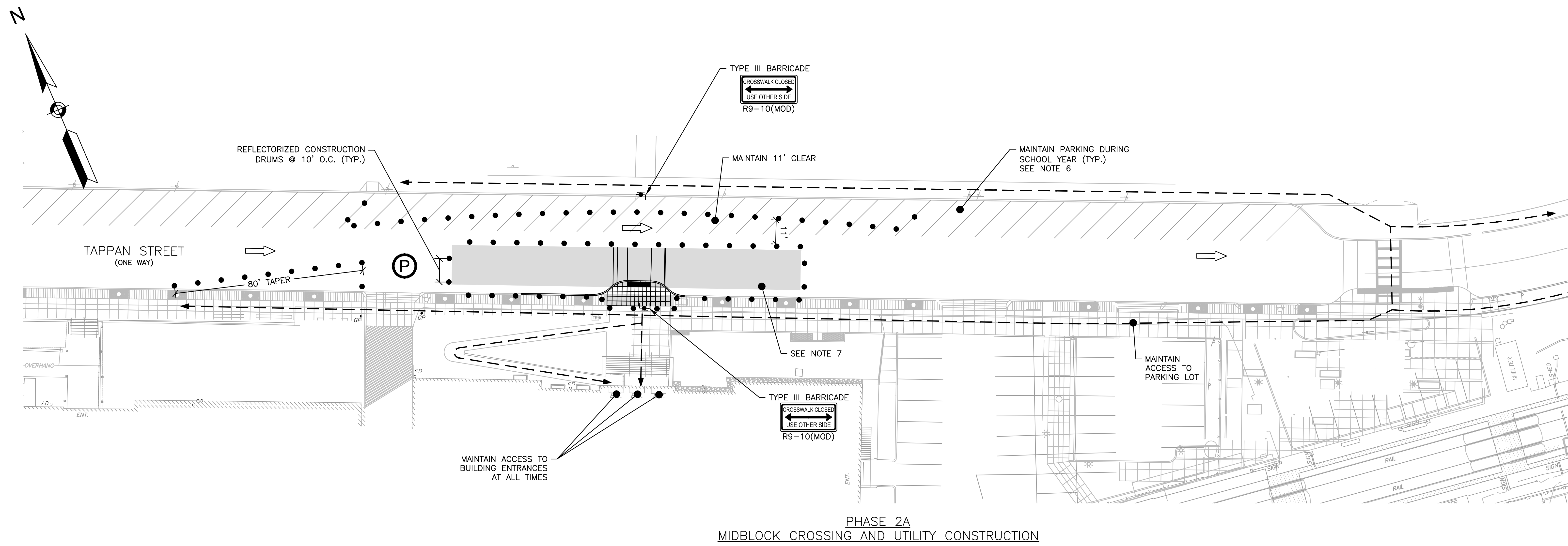
ARCHITECT
William Rawn Associates, Architects, INC. (617) 423-3470
27 School Street, Second Floor
Boston, Massachusetts 02108

LANDSCAPE ARCHITECT
Lemon Brooke LLC. (978) 222-3700
31 Oxbow Road
Concord, Massachusetts 01742

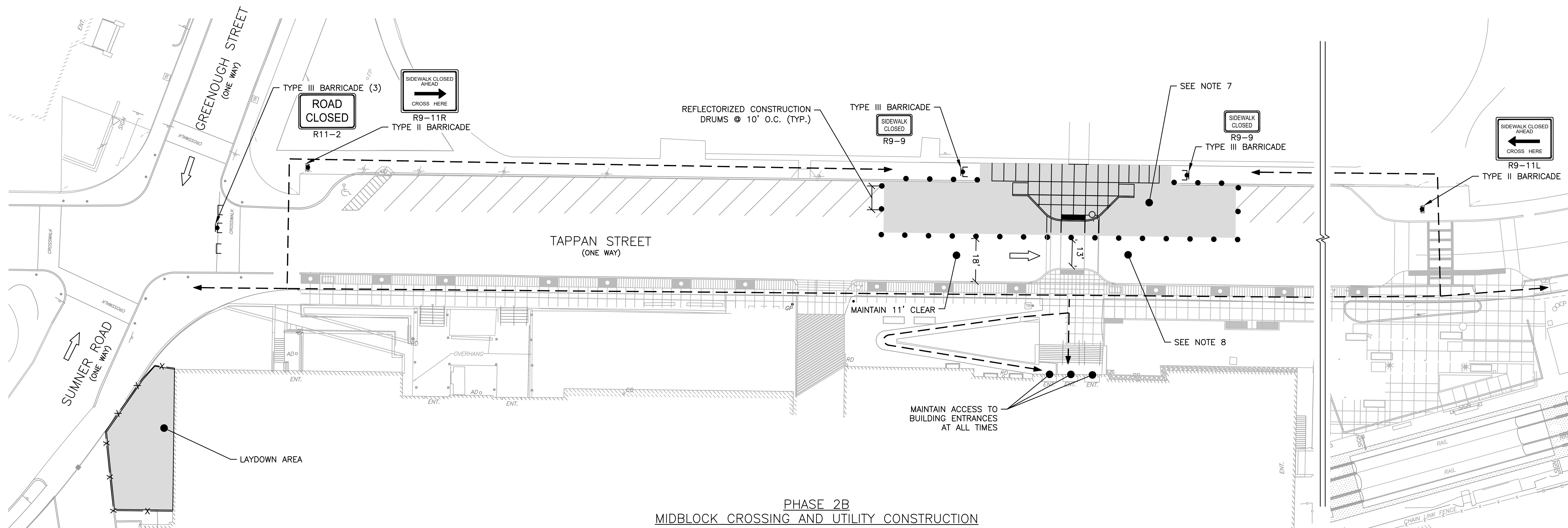
CIVIL ENGINEER
Nitsch Engineering, Inc. (617) 338-0063
2 Center Plaza, Suite 430
Boston, Massachusetts 02108

TRAFFIC CONSULTANT
Howard Stein Hudson (617) 482-7080
11 Beacon St
Boston, Massachusetts 02108

IRRIGATION CONSULTANT
Aqueous Consultants (978) 470-1695
2 Dundee Park Drive
Andover, Massachusetts 01810



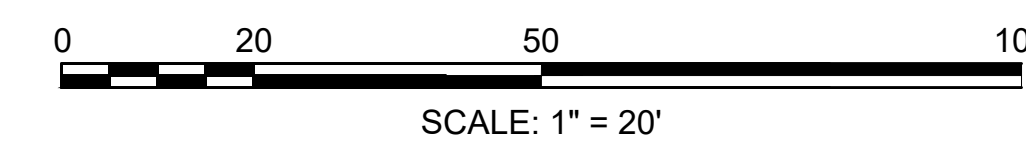
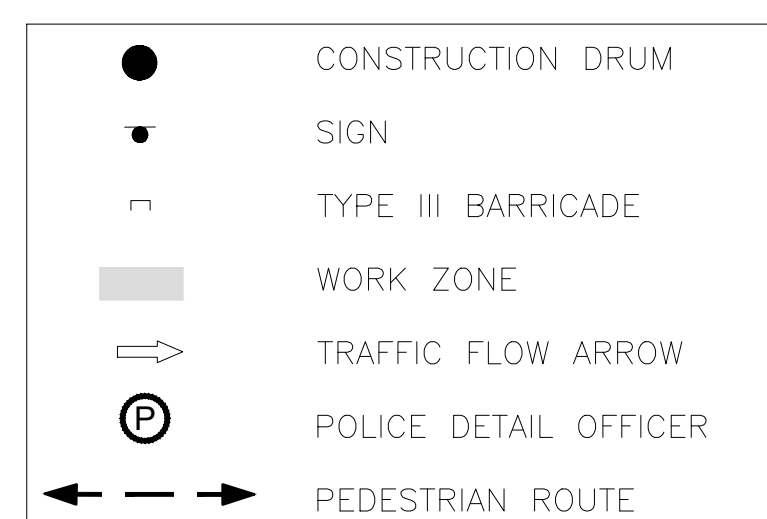
PHASE 2A
MIDBLOCK CROSSING AND UTILITY CONSTRUCTION



PHASE 2B
MIDBLOCK CROSSING AND UTILITY CONSTRUCTION

WORK TO BE COMPLETED:

- THE WORK ZONE SHOWN IS INTENDED TO SUPPORT THE RECONSTRUCTION OF TAPPAN STREET INCLUDING BUT NOT LIMITED TO:
 - RECONSTRUCTION OF SIDEWALKS, WHEELCHAIR RAMPS, CURBING, HARDSCAPING, ROADWAY BASE, AND DRIVEWAYS;
- ADDITIONAL WORK MAY BE PERFORMED DURING EACH PHASE THROUGH THE USE OF MUTCD STANDARD TEMPORARY TRAFFIC CONTROL DETAIL WITH PRIOR APPROVAL FROM THE ENGINEER.
- POLICE OFFICER DETAIL SHALL BE PROVIDED WHEN NECESSARY, WITH THE OFFICER DETERMINING THE EXACT LOCATION.
- REFER TO SHEETS TTCP-001 AND TTCP-002 FOR ADDITIONAL NOTES RELATED TO TEMPORARY TRAFFIC CONTROL.
- IN AREAS SHOWN AS RESTRICTED WORKZONES, ACCESS SHALL BE MAINTAINED BY LIMITING DURATIONS AND IMPACTS AS BEST AS PRACTICAL.
- SCHOOL PARKING SHALL BE MAINTAINED AT ALL TIMES DURING SCHOOL YEAR. CONTRACTOR MAY USE PARKING SPACES FOR LAYDOWN BETWEEN JULY 1, 2023 - AUGUST 25, 2023.
- PHASE 2 WORKZONE IS FOR ACTIVE WORK ONLY. WHEN WORK IS NOT TAKING PLACE, FENCE SHALL BE RELOCATED ADJACENT TO THE WORKZONE SUCH THAT EXISTING NUMBER OF TRAVEL LANES IS RESTORED.
- TAPPAN STREET SHALL NOT BE CLOSED DURING THE SCHOOL YEAR. CONTRACTOR SHALL COORDINATE WITH BROOKLINE HIGH SCHOOL AND THE TOWN OF BROOKLINE FOR TAPPAN STREET CLOSURE.
- CONTRACTOR MAY USE UP TO EIGHT SPACES IN THE TAPPAN STREET GYM PARKING LOT OFF SUMNER ROAD FOR CONTRACTOR PARKING FOR THE DURATION OF THE PROJECT.
- TOWN OF BROOKLINE TO CONFIRM BUILDING EMERGENCY EGRESS IS NOT IMPACTED BY CONSTRUCTION STAGING PLAN.



CONTRACT DOCUMENT SET
JANUARY 6, 2023

REV. NO.	DATE	REVISION

DRAWING TITLE:
**TEMPORARY TRAFFIC
CONTROL PLAN**

DRAWN BY: CM

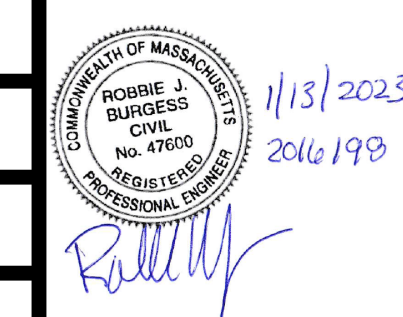
CHECKED BY: RB

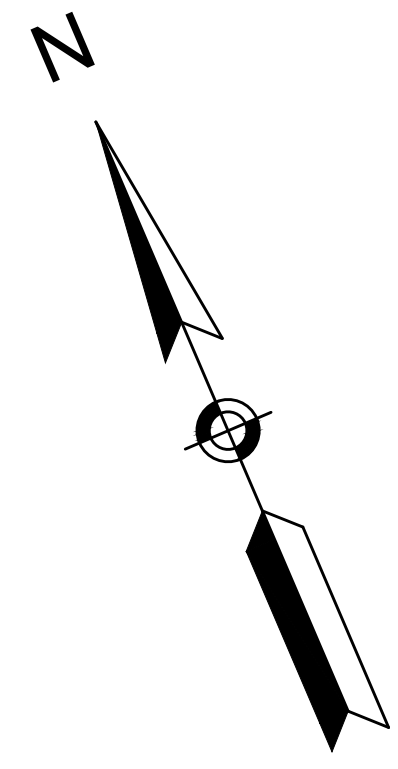
SCALE: AS SHOWN

DATE: 1/16/23

DRAWING NUMBER:

TTCP-004





WRA PROJECT # 21706

TOWN OF BROOKLINE
BROOKLINE HIGH SCHOOL
EXPANSION
 BROOKLINE, MA 02445

TAPPAN STREET IMPROVEMENTS

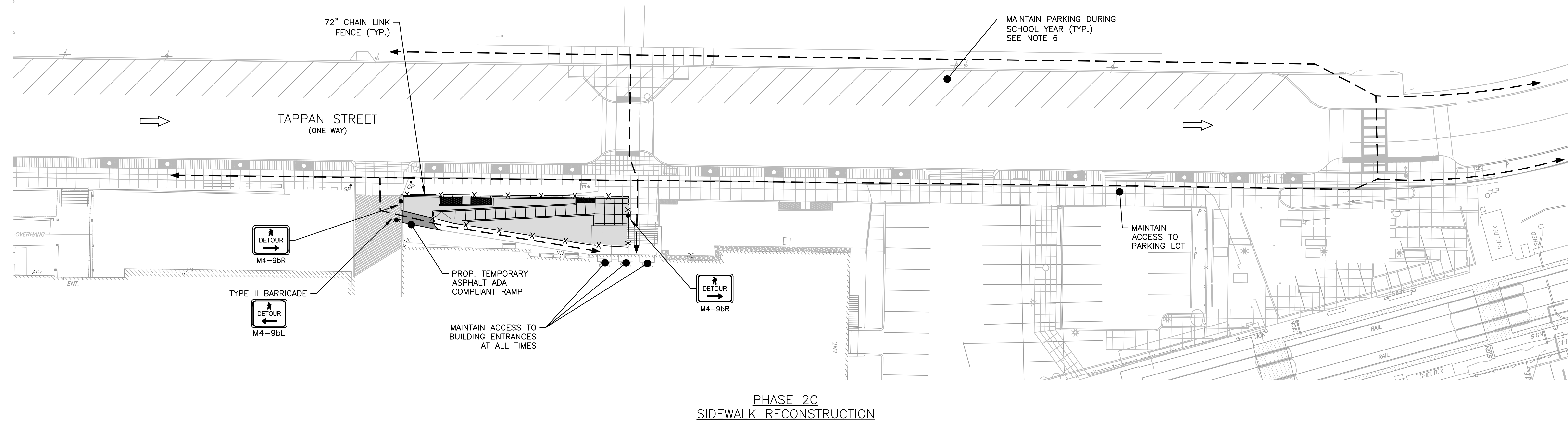
ARCHITECT
 William Rawl Associates, Architects, INC. (617) 423-3470
 27 School Street, Second Floor
 Boston, Massachusetts 02108

LANDSCAPE ARCHITECT
 Lemon Brooke LLC. (978) 222-3700
 31 Oxbow Road
 Concord, Massachusetts 01742

CIVIL ENGINEER
 Nitsch Engineering, Inc. (617) 338-0063
 2 Center Plaza, Suite 430
 Boston, Massachusetts 02108

TRAFFIC CONSULTANT
 Howard Stein Hudson (617) 482-7080
 11 Beacon St
 Boston, Massachusetts 02108

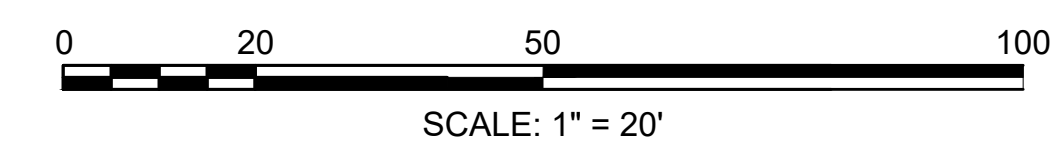
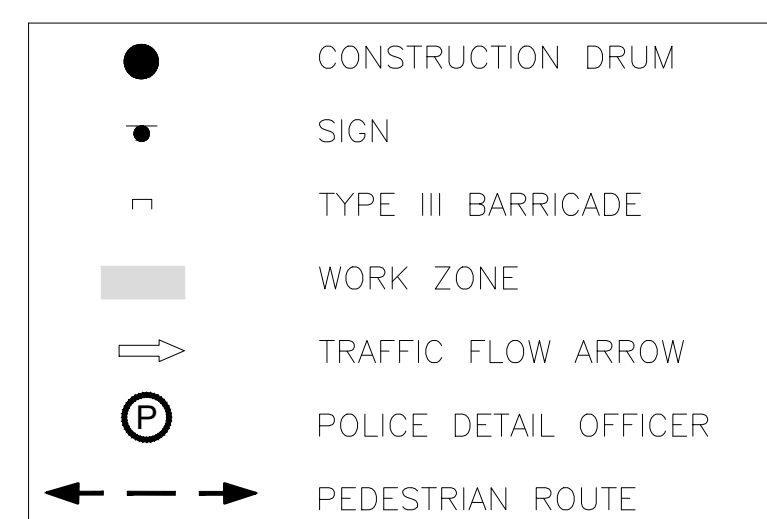
IRRIGATION CONSULTANT
 Aqueous Consultants (978) 470-1695
 2 Dundee Park Drive
 Andover, Massachusetts 01810



PHASE 2C
SIDEWALK RECONSTRUCTION

WORK TO BE COMPLETED:

1. THE WORK ZONE SHOWN IS INTENDED TO SUPPORT THE RECONSTRUCTION OF TAPPAN STREET INCLUDING BUT NOT LIMITED TO:
 - 1.1. RECONSTRUCTION OF SIDEWALKS, WHEELCHAIR RAMPS, CURBING, HARDSCAPING, ROADWAY BASE, AND DRIVEWAYS;
2. ADDITIONAL WORK MAY BE PERFORMED DURING EACH PHASE THROUGH THE USE OF MUTCD STANDARD TEMPORARY TRAFFIC CONTROL DETAIL WITH PRIOR APPROVAL FROM THE ENGINEER.
3. POLICE OFFICER DETAIL SHALL BE PROVIDED WHEN NECESSARY, WITH THE OFFICER DETERMINING THE EXACT LOCATION.
4. REFER TO SHEETS TTCP-001 AND TTCP-002 FOR ADDITIONAL NOTES RELATED TO TEMPORARY TRAFFIC CONTROL.
5. IN AREAS SHOWN AS RESTRICTED WORKZONES, ACCESS SHALL BE MAINTAINED BY LIMITING DURATIONS AND IMPACTS AS BEST AS PRACTICAL.
6. SCHOOL PARKING SHALL BE MAINTAINED AT ALL TIMES DURING SCHOOL YEAR. CONTRACTOR MAY USE PARKING SPACES FOR LAYDOWN BETWEEN JULY 1, 2023 - AUGUST 25, 2023.
7. PHASE 2 WORKZONE IS FOR ACTIVE WORK ONLY. WHEN WORK IS NOT TAKING PLACE, FENCE SHALL BE RELOCATED ADJACENT TO THE WORKZONE SUCH THAT EXISTING NUMBER OF TRAVEL LANES IS RESTORED.
8. TAPPAN STREET SHALL NOT BE CLOSED DURING THE SCHOOL YEAR. CONTRACTOR SHALL COORDINATE WITH BROOKLINE HIGH SCHOOL AND THE TOWN OF BROOKLINE FOR TAPPAN STREET CLOSURE.
9. CONTRACTOR MAY USE UP TO EIGHT SPACES IN THE TAPPAN STREET GYM PARKING LOT OFF SUMNER ROAD FOR CONTRACTOR PARKING FOR THE DURATION OF THE PROJECT.
9. TOWN OF BROOKLINE TO CONFIRM BUILDING EMERGENCY EGRESS IS NOT IMPACTED BY CONSTRUCTION STAGING PLAN.



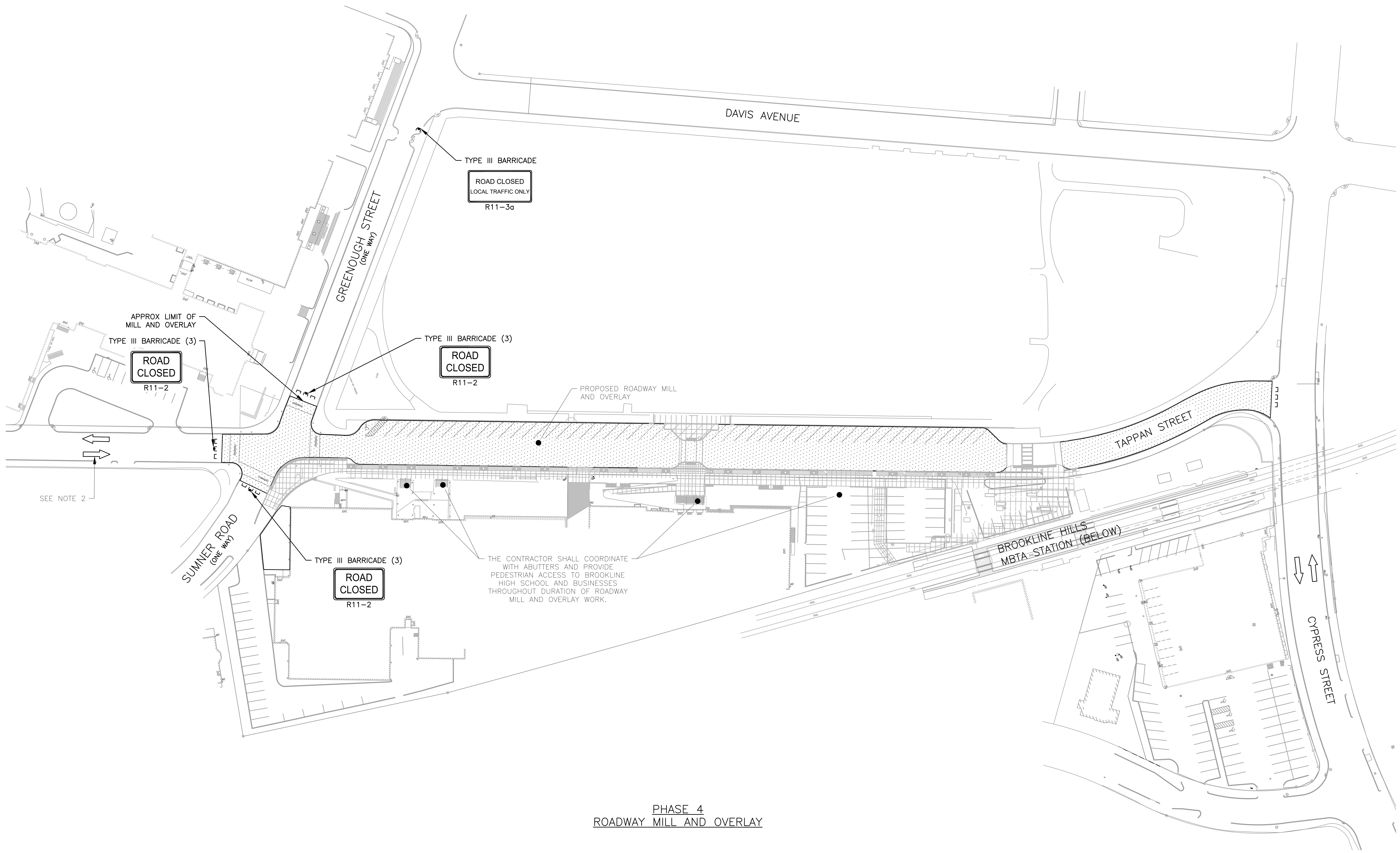
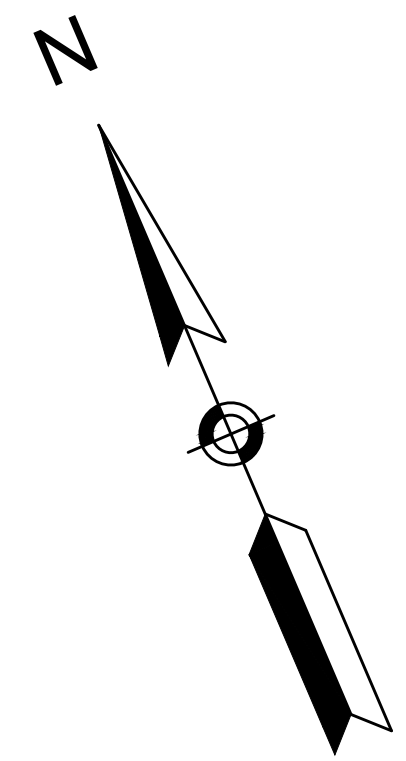
CONTRACT DOCUMENT SET
JANUARY 6, 2023

REVISIONS:		
REV. NO.	DATE	REVISION

DRAWING TITLE:
TEMPORARY TRAFFIC CONTROL PLAN

DRAWN BY: CM	
CHECKED BY: RB	
SCALE: AS SHOWN	
DATE: 1/6/23	

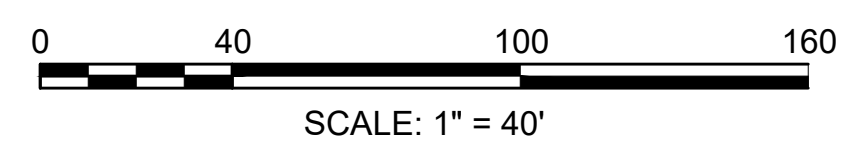
DRAWING NUMBER:
TTCP-005



**PHASE 4
ROADWAY MILL AND OVERLAY**

WORK TO BE COMPLETED:

1. THE WORK ZONE SHOWN IS INTENDED TO SUPPORT THE RECONSTRUCTION OF TAPPAN STREET INCLUDING BUT NOT LIMITED TO:
 - 1.1. RECONSTRUCTION OF SIDEWALKS, WHEELCHAIR RAMPS, CURBING, HARDSCAPING, ROADWAY BASE, AND DRIVEWAYS;
2. DUE TO THE LOCATION OF THE PROPOSED ROADWAY MILL AND OVERLAY INTO TAPPAN STREET, THE ROADWAY WILL BE CLOSED TO THROUGH TRAFFIC AND TWO-WAY TRAVEL WILL BE PERMITTED BETWEEN TAPPAN STREET AT BLAKE ROAD AND TAPPAN STREET AT GREENOUGH STREET. UPON COMPLETION OF THE WORK PERIOD, ALL SIGNAGE SHALL BE REMOVED/COVERED, AND THE ROADWAY SHALL BE REOPENED TO ONE WAY TRAVEL. ALL ABUTTERS SHALL BE NOTIFIED OF THE PUBLIC ALLEY CLOSURE PRIOR TO THE START OF THE ROADWAY MILL AND OVERLAY.
3. ADDITIONAL WORK MAY BE PERFORMED DURING EACH PHASE THROUGH THE USE OF MUTCD STANDARD TEMPORARY TRAFFIC CONTROL DETAIL WITH PRIOR APPROVAL FROM THE ENGINEER.
4. POLICE OFFICER DETAIL SHALL BE PROVIDED WHEN NECESSARY, WITH THE OFFICER DETERMINING THE EXACT LOCATION.
5. REFER TO SHEET TTCP-001 FOR ADDITIONAL NOTES RELATED TO TEMPORARY TRAFFIC CONTROL.
6. CONTRACTOR SHALL COORDINATE CLOSURE OF TAPPAN STREET WITH THE TOWN OF BROOKLINE AND MBTA.
7. MILL AND OVERLAY AND SUBSTANTIAL COMPLETION BY AUGUST 25, 2023 AND START OF SCHOOL YEAR.
9. TOWN OF BROOKLINE TO CONFIRM BUILDING EMERGENCY EGRESS IS NOT IMPACTED BY CONSTRUCTION STAGING PLAN.



WRA PROJECT # 21706

TOWN OF BROOKLINE
BROOKLINE HIGH SCHOOL
EXPANSION
 BROOKLINE, MA 02445

TAPPAN STREET IMPROVEMENTS

ARCHITECT
 William Rawn Associates, Architects, INC. (617) 423-3470
 27 School Street, Second Floor
 Boston, Massachusetts 02108

LANDSCAPE ARCHITECT
 Lemon Brooke LLC. (978) 222-3700
 31 Oxbow Road
 Concord, Massachusetts 01742

CIVIL ENGINEER
 Nitsch Engineering, Inc. (617) 338-0063
 2 Center Plaza, Suite 430
 Boston, Massachusetts 02108

TRAFFIC CONSULTANT
 Howard Stein Hudson (617) 482-7080
 11 Beacon St
 Boston, Massachusetts 02108

IRRIGATION CONSULTANT
 Aqueous Consultants (978) 470-1695
 2 Dundee Park Drive
 Andover, Massachusetts 01810

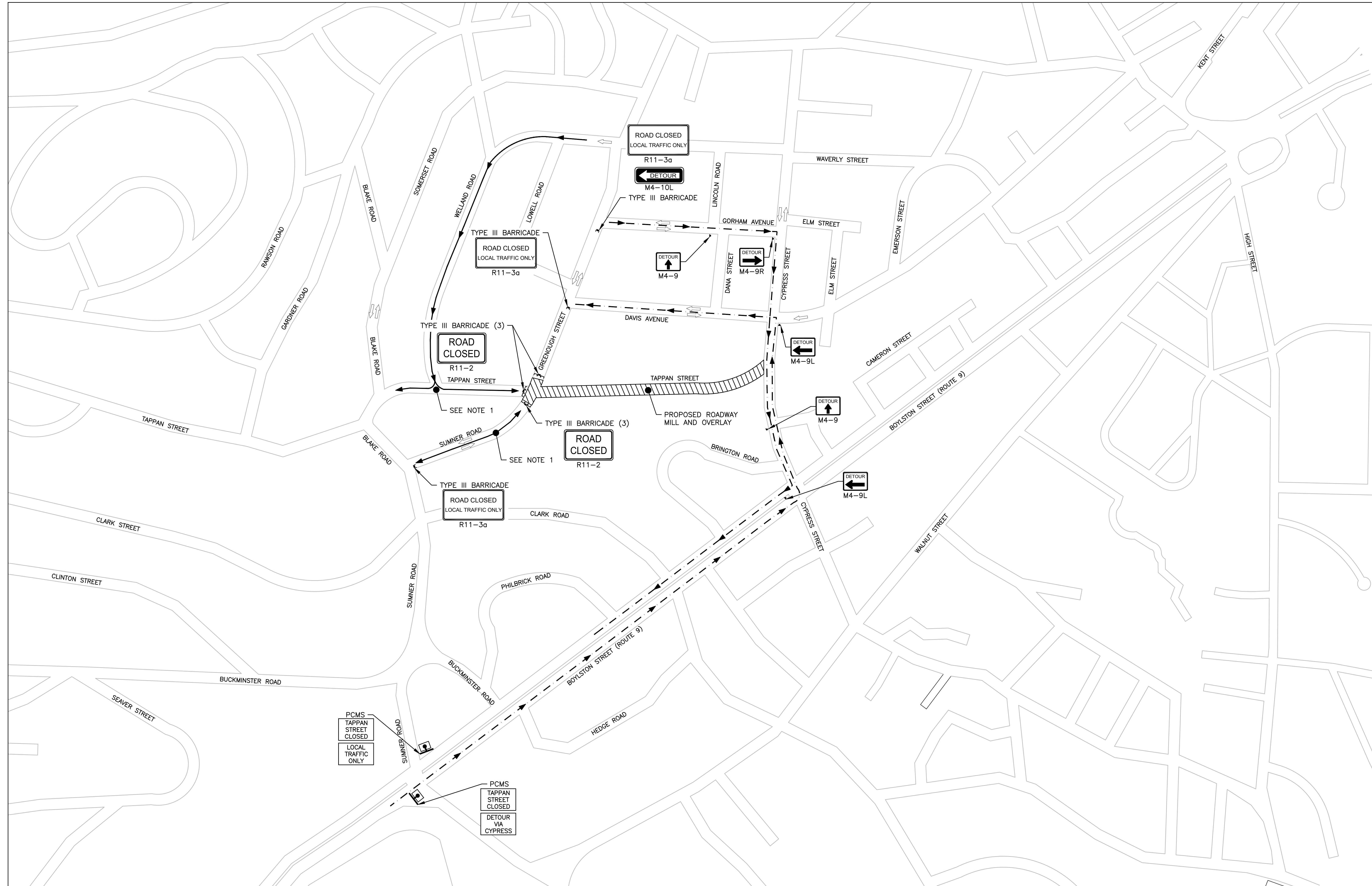
CONTRACT DOCUMENT SET
JANUARY 6, 2023

REVISIONS:		
REV. NO.	DATE	REVISION

DRAWING TITLE:
TEMPORARY TRAFFIC CONTROL PLAN

DRAWN BY: CM	
CHECKED BY: RB	
SCALE: AS SHOWN	
DATE: 1/6/23	

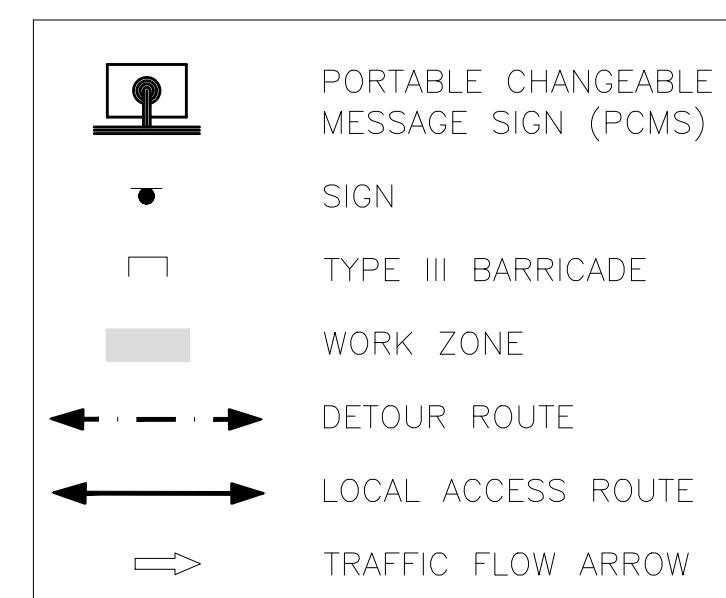
DRAWING NUMBER:
TTCP-007



PHASE 4
VEHICULAR DETOUR PLAN
NOT TO SCALE

NOTE:

1. DUE TO THE LOCATION OF THE PROPOSED ROADWAY MILL AND OVERLAY INTO TAPPAN STREET, THE ROADWAY WILL BE CLOSED TO THROUGH TRAFFIC AND TWO-WAY TRAVEL WILL BE PERMITTED BETWEEN TAPPAN STREET AT BLAKE ROAD AND TAPPAN STREET AT GREENOUGH STREET AND ON SUMNER STREET BETWEEN BLAKE ROAD AND TAPPAN STREET. UPON COMPLETION OF THE WORK PERIOD, ALL SIGNAGE SHALL BE REMOVED/COVERED, AND THE ROADWAY SHALL BE REOPENED TO ONE WAY TRAVEL. ALL ADJUTERS SHALL BE NOTIFIED OF THE PUBLIC ALLEY CLOSURE PRIOR TO THE START OF THE ROADWAY MILL AND OVERLAY.



WRA PROJECT # 21706

TOWN OF BROOKLINE
BROOKLINE HIGH SCHOOL
EXPANSION
BROOKLINE, MA 02445

TAPPAN STREET IMPROVEMENTS

ARCHITECT
William Rawn Associates, Architects, INC. (617) 423-3470
27 School Street, Second Floor
Boston, Massachusetts 02108

LANDSCAPE ARCHITECT
Lemon Brooke LLC. (978) 222-3700
31 Oxbow Road
Concord, Massachusetts 01742

CIVIL ENGINEER
Nitsch Engineering, Inc. (617) 338-0063
2 Center Plaza, Suite 430
Boston, Massachusetts 02108

TRAFFIC CONSULTANT
Howard Stein Hudson (617) 482-7080
11 Beacon St
Boston, Massachusetts 02108

IRRIGATION CONSULTANT
Aqueous Consultants (978) 470-1695
2 Dundee Park Drive
Andover, Massachusetts 01810

CONTRACT DOCUMENT SET
JANUARY 6, 2023

REV. NO.	DATE	REVISION

DRAWING TITLE:
TEMPORARY TRAFFIC CONTROL PLAN

DRAWN BY: CM

CHECKED BY: RB

SCALE: AS SHOWN

DATE: 1/6/23

DRAWING NUMBER:



TTCP-008



WRA PROJECT # 21706

TOWN OF BROOKLINE
BROOKLINE HIGH SCHOOL
EXPANSION
 BROOKLINE, MA 02445

TAPPAN STREET IMPROVEMENTS

ARCHITECT
 William Rawn Associates, Architects, INC. (617) 423-3470
 27 School Street, Second Floor
 Boston, Massachusetts 02108

LANDSCAPE ARCHITECT
 Lemon Brooke LLC. (978) 222-3700
 31 Oxbow Road
 Concord, Massachusetts 01742

CIVIL ENGINEER
 Nitsch Engineering, Inc. (617) 338-0063
 2 Center Plaza, Suite 430
 Boston, Massachusetts 02108

TRAFFIC CONSULTANT
 Howard Stein Hudson (617) 482-7080
 11 Beacon St
 Boston, Massachusetts 02108

IRRIGATION CONSULTANT
 Aqueous Consultants (978) 470-1695
 2 Dundee Park Drive
 Andover, Massachusetts 01810

CONTRACT DOCUMENT SET
JANUARY 6, 2023

REVISIONS:		
REV. NO.	DATE	REVISION

DRAWING TITLE:
TEMPORARY TRAFFIC CONTROL PLAN

DRAWN BY: CM	
CHECKED BY: RB	
SCALE: AS SHOWN	
DATE: 1/6/23	

DRAWING NUMBER:
TTCP-009

SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR	POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.					
M4-9	30"	24"		MUTCD STANDARD DETAIL			2	MUTCD STANDARD DETAIL		5.00	10.00
M4-9b	30"	24"					2			5.00	10.00
M4-9bL	30"	24"					2			5.00	10.00
M4-9bR	30"	24"					3			5.00	15.00
M4-9L	30"	24"					2			5.00	10.00
M4-9R	30"	24"					1			5.00	5.00
M4-10L	48"	18"					1			6.00	6.00
R7-1L	12"	18"					4			1.50	6.00
R7-1R	12"	18"					4			1.50	6.00
R9-9	24"	12"					6			2.00	12.00
R9-9 (MOD)	24"	12"					4			2.00	8.00
R9-10(MOD)	24"	12"					2			2.00	4.00
R9-11aR	24"	12"					1			2.00	2.00
R9-11L	24"	18"					1			3.00	3.00
R9-11R	24"	18"					1			3.00	3.00
R11-2	48"	30"					3			10.00	30.00
R11-3a	60"	30"					3			12.50	37.50
W11-2	36"	36"					5			9.00	45.00
W16-7pL	24"	12"					2			2.00	4.00
W16-7pR	24"	12"					3			2.00	6.00

Andrew Jonic

From: Andrew Jonic
Sent: Thursday, December 8, 2022 12:54 PM
To: Chris Berry
Subject: FW: Brookline Expansion Project - Tappan Streetscape Bid Documents - Final Draft

Chris,

Please make the following prints and have them delivered to:
<https://williamrawnassociates.box.com/s/57fr1ut7c6otnhq3b93oisxowlo8rn8q>

Tony Guigli

Project Administrator
333 Washington Street
Third Floor
Brookline, MA

- (1) Half size - drawings
- (1) Set of single sided specifications

Rob King

Engineering / Transportation Director
333 Washington Street
Third Floor
Brookline, MA

- (1) Half size - drawings
- (1) Set of single sided specifications

Rob Kefalas

Town of Brookline Engineering Division
333 Washington Street
Third Floor
Brookline, MA

- (1) Full size - drawings
- (1) Set of single sided specifications

Project #21706

Thank you,

Andrew Jonic AIA
Associate Principal
c. 617.548.4275

WILLIAM RAWN ASSOCIATES | Architects Inc.

27 School Street
Second Floor
Boston, MA 02108
t. 617.423.3470
www.rawnarch.com

INVOICE

ANDREW T. JOHNSON CO., INC.



15 TREMONT PLACE
 BOSTON MA 02108
 (617) 742-1610 - Phone
 (617) 523-0719 - Fax

Bill To:

WILLIAM RAWN ASSOC. ARCH., INC.
 27 SCHOOL STREET, 2ND FL
 BOSTON MA 02108

Ship To:

WILLIAM RAWN ASSOC. ARCH., INC.
 ANDY JONIC
 c/o ANDREW T. JOHNSON CO., INC.
 15 TREMONT PLACE

154910

Purchase Order No.		Customer ID		Ship Date	Shipping Method	Payment Terms	Date	Invoice	
#21706		000000252600		12/12/2022	COUNTER P/U	Net 30	12/13/2022	IVC128918	
Ordered	Shipped	B/O	Item Number	Description			Discount	Unit Price	Ext. Price
297	297	0	4008A-100	12-12-22 / Andy Jonic			\$0.0000	\$0.3500	\$103.95
1	1	0	100A-100	Brookline Expansion: 33 Plots 30x42 onto Bond Collar Bind			\$0.0000	\$1.5000	\$1.50

21706.00
 222

Please provide account numbers and/or invoice numbers making payments. Thank you.

Subtotal	\$105.45
Tax	\$6.59
Total	\$112.04

Andrew Jonic

From: Andrew Jonic
Sent: Saturday, January 14, 2023 12:00 PM
To: Chris Berry
Cc: Robert Kefalas
Subject: FW: BHS Expansion Tappan Streetscape Improvements

Chris,

Please make the following prints of the Streetscape drawings and send to:

Quantity (1) Full size – drawings (paper cover and back sheet – card stock binding)

Quantity (1) Half size - drawings

Rob King

Engineering / Transportation Director
333 Washington Street
Third Floor
Brookline, MA

Project #21706

<https://williamrawnassociates.box.com/s/quvpo8q393g4etz8z0gsxwjkvxygyu39>

Please expedite printing and delivery. Town Hall is closed on Monday, so please deliver as early as possible on Tuesday.

Thank you,

Andy

Andrew Jonic AIA
Associate Principal
c. 617.548.4275

WILLIAM RAWN ASSOCIATES | Architects Inc.

27 School Street
Second Floor
Boston, MA 02108
t. 617.423.3470
www.rawnarch.com

From: Andrew Jonic
Sent: Saturday, January 14, 2023 10:10 AM
To: Robert Kefalas <rkefalas@brooklinema.gov>
Cc: Robert King <rking@brooklinema.gov>; Tony Guigli <tguigli@brooklinema.gov>; Ralph Tella <RTella@lordenv.com>; Ammar Dieb <adieb@uec-env.com>; Josh@lemonbrooke.com; Christian Boran <cboran@lemonbrooke.com>; Ian

INVOICE

ANDREW T. JOHNSON CO., INC.

15 TREMONT PLACE
BOSTON MA 02108
(617) 742-1610 - Phone
(617) 523-0719 - Fax



154994

Bill To:

WILLIAM RAWN ASSOC. ARCH., INC.
27 SCHOOL STREET, 2ND FL
BOSTON MA 02108

Ship To:

BROOKLINE TOWN HAL
ROB KING/ENGINEERING/TRANSPORTAT
333 WASHINGTON STREET
BROOKLINE MA 02445

Purchase Order No.		Customer ID		Ship Date	Shipping Method	Payment Terms	Date	Invoice
#21706		000000252600		1/16/2023	COURIER	Net 30	1/19/2023	IVC129147
Ordered	Shipped	B/O	Item Number	Description	Discount	Unit Price	Ext. Price	
306	306	0	4008A-100	1-16-23 / Andy Jonic BHS Expansion: 34 Plots 30x42 onto Bond	\$0.0000	\$0.3500	\$107.10	
1	1	0	100A-100	Collar Bind	\$0.0000	\$1.5000	\$1.50	
102	102	0	4009A-100	34 E/prints 15x21	\$0.0000	\$0.3500	\$35.70	
1	1	0	100A-100	Collar Bind	\$0.0000	\$1.5000	\$1.50	
1	1	0	4005B-100	Delivery (See Ship to)	\$0.0000	\$27.5000	\$27.50	

Subtotal	\$173.30
Tax	\$9.11
Total	\$182.41

Please provide account numbers and/or invoice numbers when making payments. Thank you.

From: Andrew Jonic
Sent: Friday, January 20, 2023 11:06 AM
To: Chris Berry
Subject: RE: BHS Expansion Tappan Streetscape Improvements - Final Bid documents prints

Thanks Chris. I thought ATJs might be using an out of house delivery service.

Andy

Andrew Jonic AIA
Associate Principal
c. 617.548.4275

WILLIAM RAWN ASSOCIATES | Architects Inc.

27 School Street
Second Floor
Boston, MA 02108
t. 617.423.3470
www.rawnarch.com

From: Chris Berry <chrisberry@andrewtjohnson.com>
Sent: Friday, January 20, 2023 10:59 AM
To: Andrew Jonic <AJonic@rawnarch.com>
Subject: RE: BHS Expansion Tappan Streetscape Improvements - Final Bid documents prints

[External]

Hi Andy , I can only use my courier
I was suggesting maybe you had someone
I will cancel other deliveries so I can get this done & it will be delivered by us later in the afternoon
Thx Have a Great Day
CB

From: Andrew Jonic <AJonic@rawnarch.com>
Sent: Friday, January 20, 2023 10:35 AM
To: Chris Berry <chrisberry@andrewtjohnson.com>
Cc: Robert Kefalas <rkefalas@brooklinema.gov>
Subject: BHS Expansion Tappan Streetscape Improvements - Final Bid documents prints

Hi Chris,

Please make the following prints and deliver to Rob Kefalas today.

Quantity: 8
Size: Full Size Prints

INVOICE

ANDREW T. JOHNSON CO., INC.

15 TREMONT PLACE
 BOSTON MA 02108
 (617) 742-1610 - Phone
 (617) 523-0719 - Fax



154995

Bill To:

WILLIAM RAWN ASSOC. ARCH., INC.
 27 SCHOOL STREET, 2ND FL
 BOSTON MA 02108

Ship To:

TOWN OF BROOKLINE
 ROB KEFALAS
 333 WASHINGTON STREET
 BROOKLINE MA 02445

Purchase Order No.		Customer ID		Ship Date	Shipping Method	Payment Terms	Date	Invoice	
21706		000000252600		1/20/2023	COURIER	Net 30	1/23/2023	IVC129188	
Ordered	Shipped	B/O	Item Number	Description			Discount	Unit Price	Ext. Price
306	306	0	4008A-100	1-20-23 / Andy Jonic BHS Expansion: 34 Plots 30x42 onto Bond			\$0.0000	\$0.3500	\$107.10
1	1	0	100A-100	Collar Bind			\$0.0000	\$1.5000	\$1.50
2,142	2,142	0	4009A-100	238 E/Prints 30x42			\$0.0000	\$0.2500	\$535.50
7	7	0	100A-100	Collar Bind			\$0.0000	\$1.5000	\$10.50
1	1	0	4005B-100	Deliver Today ASAP			\$0.0000	\$42.5000	\$42.50

Please provide account numbers and/or invoice numbers when making payments. Thank you.

Subtotal	\$697.10
Tax	\$40.91
Total	\$738.01

Andrew Jonic

From: Andrew Jonic
Sent: Friday, March 18, 2022 9:04 AM
To: Chris Berry; Patty McCarthy
Cc: Colleen de Matta
Subject: RE: BHS Expansion - Streetscape bid drawings and Specification cover page (signed)

Hi Chris,

Please make the following prints of the Streetscape bid drawings for the Town of Brookline. You can download the drawings here:

<https://williamrawnassociates.box.com/s/m1cyvl6fpend7hsqh7ncmgjwuhcc036o>

- (3) half size sets
- (7) full size sets
- Collar bind
- Please send the final invoice to Patty and to me. We will get re-imbursed for some of this order.
- Project #: 21076.56

Thank you,

Andy

Andrew Jonic AIA
Senior Associate
c. 617.548.4275

WILLIAM RAWN ASSOCIATES | Architects. Inc.

27 School Street
Second Floor
Boston, MA 02108
t. 617.423.3470
www.rawnarch.com

From: Robert Kefalas <rkefalas@brooklinema.gov>
Sent: Thursday, March 17, 2022 11:35 AM
To: Andrew Jonic <AJonic@rawnarch.com>
Cc: Colleen de Matta <CdeMatta@rawnarch.com>; Robert King <rking@brooklinema.gov>; Tony Guigli <tguigli@brooklinema.gov>; Ray Masak <rmasak@brooklinema.gov>
Subject: RE: BHS Expansion - Streetscape bid drawings and Specification cover page (signed)

[External]

Andy-

We need 3 half sets and 7 full sets of the drawings printed and delivered to Brookline Town Hall /4th floor Eng Div.

INVOICE

ANDREW T. JOHNSON CO., INC.



15 TREMONT PLACE
BOSTON MA 02108
(617) 742-1610 - Phone
(617) 523-0719 - Fax

Bill To:

WILLIAM RAWN ASSOC. ARCH., INC.
27 SCHOOL STREET, 2ND FL
BOSTON MA 02108

Ship To:

TOWN OF BROOKLINE - DPW
ROBERT KEFALAS
333 WASHINGTON STREET
BROOKLINE MA

Purchase Order No.		Customer ID		Ship Date	Shipping Method	Payment Terms	Date	Invoice	
21076.56		000000252600		3/18/2022	COURIER	Net 30	3/18/2022	IVC126268	
Ordered	Shipped	B/O	Item Number	Description	Discount	Unit Price	Ext. Price		
297	297	0	4008A-100	3-18-22 / Andy Jonic 21076.56 BHS: 33 Plots onto Bond 30x42	\$0.0000	\$0.3500	\$103.95		
1,782	1,782	0	4009A-100	198 E/Prints 30x42	\$0.0000	\$0.2500	\$445.50		
297	297	0	4009A-100	99 E/Prints 15x21	\$0.0000	\$0.2500	\$74.25		
10	10	0	100A-100	Collar Bind	\$0.0000	\$1.5000	\$15.00		
1	1	0	4005B-100	Delivery (See Ship to)	\$0.0000	\$22.5000	\$22.50		
							Subtotal	\$661.20	
							Tax	\$39.92	
							Total	\$701.12	

Please provide account numbers and/or invoice numbers when making payments. Thank you.