Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 8A – Request for Certificate of Compliance

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

006-1785
Provided by DEP

A. Project Information

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.

1. This request is being made by:

Roch D. Larochelle, PE
Name

99 HIgh Street, Suite 2300
Mailing Address

Boston	MA	02110
City/Town	State	Zip Code

617-357-7759
Phone Number

2. This request is in reference to work regulated by a final Order of Conditions issued to:

Peter Debruin
Applicant

May 20, 2021	006-1785
Dated	DEP File Number

Upon completion of the work authorized in an Order of Conditions, the property owner must request a Certificate of Compliance from the issuing authority stating that the work or portion of the work has been satisfactorily completed.

3. The project site is located at:

Chelsea Street/41 Medford Street	Boston
Street Address	City/Town
N/A	0202732000 / 0202733000
Assessors Map/Plat Number	Parcel/Lot Number

4. The final Order of Conditions was recorded at the Registry of Deeds for:

City of Boston Parks and Recreation Department, Attn: Ryan Woods
Property Owner (if different)

Suffolk	65525	216
County	Book	Page

Certificate (if registered land)

5. This request is for certification that (check one):

☒ the work regulated by the above-referenced Order of Conditions has been satisfactorily completed.

☐ the following portions of the work regulated by the above-referenced Order of Conditions have been satisfactorily completed (use additional paper if necessary).

☐ the above-referenced Order of Conditions has lapsed and is therefore no longer valid, and the work regulated by it was never started.

A. Project Information (cont.)

6. Did the Order of Conditions for this project, or the portion of the project subject to this request, contain an approval of any plans stamped by a registered professional engineer, architect, landscape architect, or land surveyor?

   ☒ Yes — If yes, attach a written statement by such a professional certifying substantial compliance with the plans and describing what deviation, if any, exists from the plans approved in the Order.

   ☐ No

B. Submittal Requirements

Requests for Certificates of Compliance should be directed to the issuing authority that issued the final Order of Conditions (OOC). If the project received an OOC from the Conservation Commission, submit this request to that Commission. If the project was issued a Superseding Order of Conditions or was the subject of an Adjudicatory Hearing Final Decision, submit this request to the appropriate DEP Regional Office (see http://www.mass.gov/eea/agencies/massdep/about/contacts/find-the-massdep-regional-office-for-your-city-or-town.html).

November 16, 2022

Boston Conservation Commission
City of Boston Environmental Department
1 City Hall Square, Room 709
Boston, MA 02201

Attn: Kate Oetheimer, Conservation Agent

RE: M666-C1 - Charlestown Harborwalk /Barry Field Connector
DEP File No. 006-1785

Subject: Request for Certificate of Compliance

Dear Ms. Oetheimer:

In accordance with General Condition 12 of Order of Conditions (Order) dated May 20, 2021 for the above-noted project we are hereby requesting a Certificate of Compliance for the completed project. We have attached a completed request form (WPA Form 8A).

This letter will serve as certification by the registered Professional Engineer in responsible charge and having sealed the plans that the project has been completed in substantial compliance with the approved plans and the conditions of the Order.

The attached as-built plans have been certified by the Engineer of Record and reflect modifications that were made during construction as indicated with the cloud pattern around the changes. These changes were not significant or impactful relative to the WPA resource areas, their functions or protection thereof. Specific modifications made during construction are found on the following sheets as noted in the table below.

Sheet No.	Sheet Name	Sheet Title	Description of change
6 of 30	C-101	General Plan and Profile	Minor as-built elevation mods
7 of 30	C-102	Grading Plan	Minor as-built elevation mods
10 of 30	TR-01	Traffic Signal Plan 1 of 2	Minor conduit & pull box location mods
20 of 30	S-009	Foundation Plan	As-built pile location coordinate table
22 of 30	S-011	Slab Layout	Cast in place vs. precast stairs
23 of 30	S-012	Proposed Wall Elevations 1	Minor as-built elevation mods
24 of 30	S-013	Proposed Wall Elevations 2	Minor as-built elevation mods
26 of 30	S-015	Proposed Precast Slab details 2	Changed cast iron grate to BTD composite
27 of 30	S-016	Proposed Precast Slab details 3	Vehicle barrier reinforcing detail mods
29 of 30	S-018	Miscellaneous Details	Added cast-in-place landing
30 of 30	S-019	Handrail Details	Added cast-in-place landing

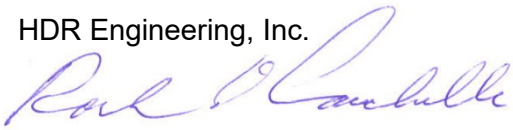
hdrinc.com

99 High Street, Suite 2300, Boston MA 02110
T 617.357.7700 **F** 617.357.7759

If you should have any questions or need additional information, don't hesitate to contact me directly at 617-603-6344 or by email at roch.larochelle@hdrinc.com.

Very truly yours,

HDR Engineering, Inc.



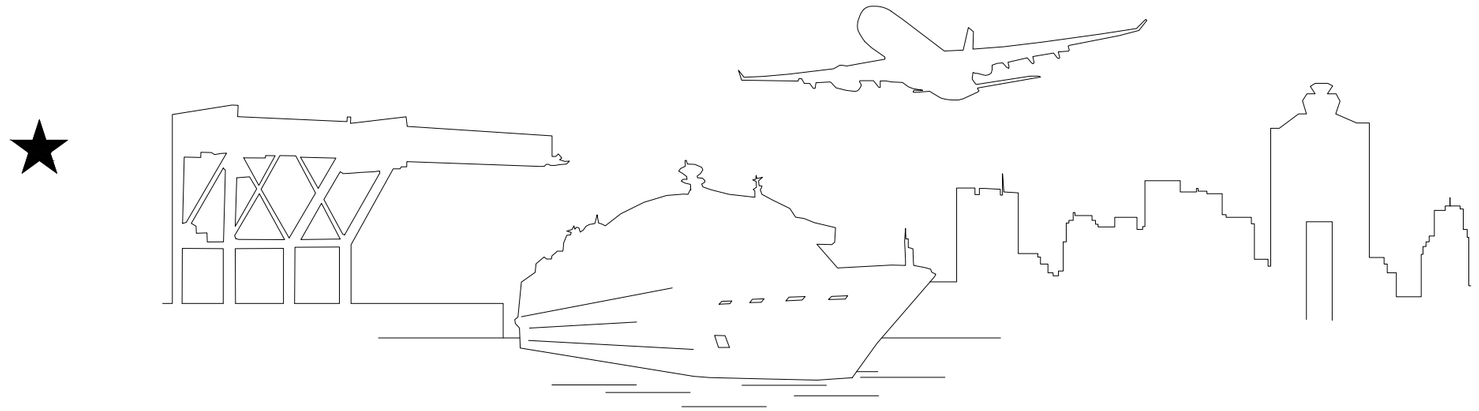
Roch D. Larochelle, P.E. (MA Reg #47453)
Associate | Senior Project Manager

Attachments

Cc: Amy Blake-Baldwin, Massport

RDL:rdl

MASSACHUSETTS PORT AUTHORITY



MASSACHUSETTS PORT AUTHORITY

CAPITAL PROGRAMS DEPARTMENT
ONE HARBORSIDE DRIVE, SUITE 209S
EAST BOSTON, MASSACHUSETTS 02128

CHARLESTOWN COMMUNITY PATH
BARRY FIELD CONNECTOR
(COMPONENT 1)
CHARLESTOWN, MASSACHUSETTS
MPA PROJECT NO. M666-C1
NOVEMBER 2022

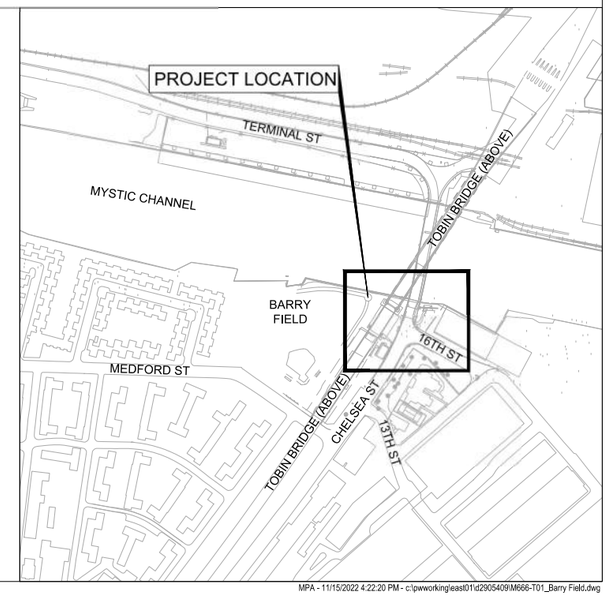
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378

LIST OF DRAWINGS:



GENERAL NOTES

GENERAL

1. THE CONTRACTOR SHALL NOTIFY "DIG-SAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WITHIN THE PROJECT AREA.
2. ALL EXISTING FEATURES WHICH ARE "TO REMAIN" AND WHICH ARE DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE, INCLUDING BUT NOT LIMITED TO EXISTING CURB, SIDEWALK, ROADWAY LIGHTING, CATENARY POLES, BOUNDS OR PROPERTY MARKERS, HYDRANTS AND UTILITIES.
3. EXCAVATIONS SHALL BE PROTECTED AT THE END OF EACH WORK PERIOD. A STEEL PLATE OR DECKING SHALL BE TEMPORARILY PLACED IN ACCORDANCE WITH TRENCH EXCAVATION REQUIREMENTS OVER ALL EXCAVATIONS WHEN NOT ACTIVELY IN USE.
4. THE CONTRACTOR SHALL EMPLOY DUST CONTROL MEASURES IN ACCORDANCE WITH THE CONTRACTOR'S SITE SPECIFIC HEALTH AND SAFETY PLAN.
5. ALL SITE FEATURES WHICH ARE TO BE DISPOSED OF, INCLUDING EXISTING PAVEMENT AND CONCRETE, SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
6. THE CONTRACTOR SHALL REMOVE ALL PAVEMENT, GRASSED AREAS, GRANITE CURB, AND OTHER EXISTING FEATURES NOT DESIGNATED TO REMAIN WITHIN THE PROPOSED RECONSTRUCTION AREA.
7. PRIOR TO THE INSTALLATION OF PROPOSED UTILITIES, THE CONTRACTOR SHALL EXCAVATE TEST PITS AT LOCATION OF UTILITY CROSSINGS TO VERIFY DEPTHS OF EXISTING PIPES, CONDUIT OR OTHER FACILITIES AS REQUIRED BY ENGINEER.
8. CONTRACTOR SHALL VERIFY ALL OUTLET GRADES OF DRAINAGE STRUCTURES PRIOR TO CONSTRUCTING THE DRAINAGE IMPROVEMENTS.
9. WHERE A NEW PAVEMENT SHALL MEET EXISTING PAVEMENT, THE JOINT SHALL BE SAWCUT TO A NEW VERTICAL LINE.
10. EXCEPT AS NOTED, ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
11. ALL WHEELCHAIR RAMPS SHALL BE CONSTRUCTED TO COMPLY WITH LATEST MASSDOT STANDARDS, AND CMR 521 MA, AAS, AND ADA REQUIREMENTS AS AMENDED.

EXISTING CONDITIONS

1. THE HORIZONTAL DATUM IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) AS DETERMINED WITH RESPECT TO THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (MAINLAND ZONE).
2. ELEVATIONS SHOWN HEREON REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. DUE TO ONGOING CONCURRENT CONSTRUCTION AND DEMOLITION CONTRACTS BEING EXECUTED BY THE AUTHORITY AND MASSDOT AND OTHERS, EXISTING CONDITIONS MAY VARY FROM WHAT IS SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE EXISTING CONDITIONS WITHIN THE PROJECT AREA AND NOTIFY THE ENGINEER OF DISCREPANCIES WHICH ARE FOUND.
4. EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN COMPILED FROM INFORMATION RECEIVED FROM THE VARIOUS UTILITY COMPANIES; FROM DESIGN AND AS-BUILT PLANS BY MASSPORT AND MWRA, BWSC GIS AND BY MASSPORT SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION, AND SHALL REPORT ANY DISCREPANCIES BETWEEN ACTUAL EXISTING CONDITIONS AND INFORMATION SHOWN ON THE PLAN TO THE ENGINEER, PRIOR TO PROCEEDING WITH CONSTRUCTION.

UTILITIES

1. ALL UTILITY OWNERS SHALL HAVE ACCESS TO THEIR EXISTING MANHOLES AND STRUCTURES AT ALL TIMES.

SUPPORT OF EXISTING UTILITIES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING TEMPORARY SUPPORT SYSTEMS FOR EXISTING UTILITIES TO REMAIN. THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS, TOGETHER WITH DESIGN CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS AND MATERIAL SPECIFICATIONS FOR APPROVAL BY THE ENGINEER PRIOR TO COMMENCEMENT OF WORK. THE WORKING DRAWINGS SHALL INCLUDE THE ENTIRE PROPOSED SUPPORT SYSTEM.
2. SUBSURFACE UTILITY LINES AND FEATURES, AS SHOWN HEREON, WERE COMPILED FROM FIELD EVIDENCE AND/OR AVAILABLE RECORD INFORMATION AND SURVEY 2515-01.DWG DATED 3/31/2021, AND THEIR LOCATIONS ARE ONLY APPROXIMATE. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD.
3. IN ADDITION TO EXISTING UTILITIES WHICH CROSS NEW EXCAVATIONS, THE CONTRACTOR SHALL SUPPORT AND PROTECT IN PLACE EXISTING AND NEW UTILITIES WITHIN A HORIZONTAL DISTANCE EQUAL TO TWICE THE EXCAVATION DEPTH FROM THE EDGE OF THE EXCAVATION.
4. UTILITIES SHALL NOT BE RIGIDLY CONNECTED TO, OR IN DIRECT CONTACT WITH THE EXCAVATION SUPPORT SYSTEM.
5. THE MAXIMUM DISTANCE BETWEEN PIPE, CONDUIT OR DUCTBANK SUPPORTS SHALL NOT EXCEED THAT LENGTH WHICH MAY BE SAFELY ACHIEVED WITHOUT DETRIMENTAL EFFECT TO THE UTILITY, AS DETERMINED BY THE UTILITY OWNER.
6. EXISTING MATERIALS UNSUITABLE FOR TEMPORARY SUPPORT, SUCH AS BRICK SEWERS OR OTHER CONDUITS OF NON-HOMOGENOUS MATERIALS; OR EXISTING UTILITIES FOUND TO BE IN TOO POOR A CONDITION TO BE SUPPORTED AS AUTHORIZED BY THE ENGINEER, MUST BE REPLACED AS AUTHORIZED BY THE ENGINEER WITH NEW MATERIALS AS APPROVED BY THE ENGINEER THAT CAN BE SUPPORTED. PAYMENT FOR SUCH WORK WILL BE AT THE UNIT PRICE FOR THE ITEM BEING INSTALLED.
7. UTILITIES SHALL BE LATERALLY CONSTRAINED. CONSTRAINTS MUST NOT INTERFERE WITH EXISTING OR PROPOSED UTILITIES.
8. STRUCTURAL STEEL DESIGN FOR TEMPORARY UTILITY SUPPORTS SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS.
9. THE SUFFIX (R) DENOTES SUBSURFACE UTILITIES WHICH WERE COMPILED FROM RECORD INFORMATION.

MAINTENANCE OF TRAFFIC

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING CITY OF BOSTON POLICE DETAILS, AS REQUIRED AND AS AUTHORIZED BY THE ENGINEER, WHILE CONDUCTING CONSTRUCTION OPERATIONS ON STREETS AND ROADWAYS OPEN TO PUBLIC TRAVEL.
2. ALL EXISTING PAVEMENT MARKINGS AND/OR SIGNAGE AFFECTED BY CONSTRUCTION OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE AUTHORITY.
3. THE CONTRACTOR SHALL SUBMIT A DETAILED WORKPLAN TWO-WEEKS IN ADVANCE OF ANY ANTICIPATED LANE SHIFTS SHOWING THE MAINTENANCE OF TRAFFIC IN EXISTING ROADWAYS DURING THE WORK. THE WORKPLAN SHALL DETAIL THE LOCATIONS OF REFLECTORIZED BARRELS, BARRIERS, ARROW PANELS, VARIABLE MESSAGE BOARDS, TEMPORARY SIGNAGE AND MARKINGS AND POLICE DETAILS AS MAY BE NEEDED FOR CONTRACTOR TO EXECUTE THE WORK.
4. THE CONTRACTOR ASSUMES MAINTENANCE RESPONSIBILITY OF THE TRAFFIC SIGNAL SYSTEM AT THE START OF EXCAVATION OR DEMOLITION THAT IS PERFORMED AT A SPECIFIC LOCATION. THE START DATE OF MAINTENANCE RESPONSIBILITY SHALL BE DOCUMENTED AND BE ON FILE WITH BOSTON TRANSPORTATION DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC SIGNALS UNTIL SUCH TIME AS FINAL APPROVAL AND ASSUMPTION OF MAINTENANCE BY BOSTON TRANSPORTATION DEPARTMENT (SEE DIVISION 3, SPECIAL PROVISION SECTION 01 56 00 - MAINTENANCE OF TRAFFIC FOR ADDITIONAL INFORMATION).

CONSTRUCTION CONTRACT COORDINATION

1. SEE DIVISION 2, SPECIAL PROVISIONS, ARTICLE II - COORDINATION WITH ADJACENT ACTIVITIES AND CONSTRUCTION CONTRACTS FOR ADDITIONAL INFORMATION.

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

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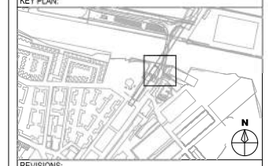
KEY PLAN:



REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN
COMMUNITY PATH IMPROVEMENTS
BARRY FIELD CONNECTION
(COMPONENT 1)

SHEET TITLE:
GENERAL NOTES

DISCIPLINE:
CIVIL

DRAWN BY:	CHECKED BY:	APPROVED BY:
CWA	RDL	RDL

SCALE:	DATE:
N/A	MAY 2021

DRAWING NAME: SHEET 2 OF 30

G-001

ABBREVIATIONS

ABD	ABANDONED
ADJ	ADJUST
B	BOLLARD
BB	BITUMINOUS CONCRETE BERM
BL	BURIED LIGHT
$\underline{\underline{\text{B}}}$	BASELINE
BO	BY OTHERS
BT	BURIED TEL.
BWSC	BOSTON WATER/SEWER COMMISSION
BWW	BOSTON WATER WORKS
CB/CBN	CATCH BASIN
CEM	CEMENT
CIT	CHANGE IN TYPE
CLF	CHAIN LINK FENCE
CLDI	CEMENT LINED DUCTILE IRON
CO	CLEANOUT
COMM	TELECOMMUNICATIONS
CONC	CONCRETE
CU	COPPER PIPE
DI	DRAIN INLET
DIP	DUCTILE IRON PIPE
DGCS	DENSE GRADED CRUSHED STONE
DMH	DRAIN MANHOLE
DYCL	DOUBLE YELLOW CENTER LINE
DS	DOWNSPOUT
EHH	ELECTRIC HAND HOLE
ELEC., E	ELECTRIC
EMH	ELECTRIC MANHOLE
EXIST	EXISTING
F&C	FRAME AND COVER
F&G	FRAME AND GATE
FD	FULL DEPTH
FM	FORCE MAIN
FP	FIRE PROTECTION
G	GAS SERVICE/GAS LINE
GG	GAS VALVE
GP	GATE POST
HBP	HOT BITUMINOUS PAVEMENT
HH	HANDHOLE
HMA	HOT MIX ASPHALT
HS	HIGH SERVICE WATER
HWY	HIGHWAY
JB	JUNCTION BOX
LP	LIGHT POLE
LS	LOW SERVICE WATER
M&M	MEET AND MATCH
MA	MAST ARM
MAG	NEW CONCRETE NAILS ARE MAGNETIC NAILS AND ARE STAMPED WITH MAG ON THE HEAD AND ARE EASIER TO FIND WITH METAL DETECTORS.
MPA	MASS. PORT AUTHORITY
MW	MONITORING WELL
NIC	NOT IN CONTRACT
O.C.	WATER MANHOLE
OHW	OVERHEAD WIRES
PBS	PLANTABLE SOIL BORROW
PE	POLYETHYLENE
PED	PEDESTRIAN
PROP	PROPOSED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
R&D	REMOVE & DISPOSE
R&R	REMOVE & RESET
R&S	REMOVE & STACK
R&T	REMOVE & TRANSPORT
REM	REMOVE
RET	RETAIN/ITEM TO REMAIN
RR	RAILROAD
S	SEWER LINE
SD	STORM DRAIN
SGC	SLOPED GRANITE CURB
SHLDR	SHOULDER
SMH	SEWER MANHOLE
SS	SANITARY SEWER
STD	STANDARD
SL	STOP LINE
SWEL	SOLID WHITE EDGE LINE
SWL	SOLID WHITE LINE
SWLL	SOLID WHITE LANE LANE
SYGL	SOLID YELLOW GORE LINE
SYL	SOLID YELLOW LINE
SYLL	SOLID YELLOW LANE LINE
T	TELEPHONE
TBA	TO BE ABANDONED
TD	TRENCH DRAIN
TMH	TELEPHONE MANHOLE
TS	TRAFFIC SIGNAL
WG	WATER GATE VALVE
UD	UNDERDRAIN
VGC	VERTICAL GRANITE CURB
W	WATER LINE
WMH	WATER MANHOLE
WSO	WATER SHUT OFF
WV	WATER VALVE

DRAINAGE LEGEND:

X	STRUCTURE ID
PX	PIPE ID
TC	TREATMENT CHAMBER
DMH	DRAIN MANHOLE
CB	CATCH BASIN
DCB	DOUBLE GRATE CB
DI-A	PROPOSED INLET TYPE A
HW	HEADWALL
EW	ENDWALL (OUTFALL)
BPX	BUFFER PARK PIPE ID
BX	BUFFER PARK STRUCTURE ID
BP-A	BUFFER PARK INLET TYPE A
BP-B	BUFFER PARK INLET TYPE B
OS	OUTLET STRUCTURE
BC	BOTTOM OF CURB
TC	TOP OF CURB

STREET FURNITURE LEGEND

PROPOSED	EXISTING	
		SIGN POST
		HYDRANT
		MAILBOX
		FIRE ALARM BOX
		WHEELCHAIR RAMP
		UTILITY POLE
		LIGHT POLE

PAVEMENT MARKING LEGEND

SWEL	4" SOLID WHITE EDGE LINE
SYEL	4" SOLID YELLOW EDGE LINE
SWLL	4" SOLID WHITE LANE LINE
BWLL	4" BROKEN WHITE LANE LINE 10' MARK - 20' SKIP
DWLL	4" DOTTED WHITE LANE LINE 2' MARK - 4' SKIP
SWCHL	8" SOLID WHITE CHANNELIZATION LINE
SYCHL	8" SOLID YELLOW CHANNELIZATION LINE
DYCL	2-4" YELLOW CENTER LINES, 4" GAP
SL	WHITE STOP LINE (12" UNLESS OTHERWISE SPECIFIED)
CW	WHITE - CROSS WALK (12" LINES, 10' O.C., 12" LONGITUDINAL LINES, 2' O.C.) (UNLESS OTHERWISE SHOWN)
SYCHL	8" SOLID YELLOW CHANNELIZATION (6" O.C. @45°)
DYCL	4" DOTTED YELLOW CENTER LINES, 4" GAP 2' MARK - 4' SKIP

UTILITIES SYMBOLS

EXISTING		PROPOSED	
G	GAS	G	GAS
SAN	SEWER	SAN	SEWER
STM	STORM PIPE	STM	STORM PIPE
W	WATER	W	WATER
T	TELEPHONE/COMMUNICATION	T	TELEPHONE/COMMUNICATION
E	ELECTRICAL	E	ELECTRICAL
OH	OVERHEAD WIRE	OH	OVERHEAD WIRE
D	DRAIN MANHOLE	D	DRAIN MANHOLE
E	ELECTRIC MANHOLE	E	ELECTRIC MANHOLE
C	TELEPHONE MANHOLE	C	TELEPHONE MANHOLE
S	SEWER MANHOLE	S	SEWER MANHOLE
	PLUG OR CAP		PLUG OR CAP
	VALVE		GATE VALVE
U	UNKNOWN MANHOLE	GV	GATE VALVE
	BORING HOLE / TEST PIT	WV	WATER VALVE
MW	MONITORING WELL	AC	MANUAL AIR RELEASE VALVE
	WATER SHUT OFF VALVE		TEE
			VERT. OR HORZ. BEND
	CATCH BASIN		CATCH BASIN
	RAILROAD TRACKS		CATCH BASIN SILT SACK
			STORMWATER TREATMENT SYSTEM
		CO	CLEANOUT
			HDPE FIELD INLET

TYPICAL LEGEND

PROPOSED	EXISTING (TO REMAIN)	EXISTING	
			CONTROLLER CABINET
			SIGNAL POST
			MAST ARM
			VEHICULAR SIGNAL
			PEDESTRIAN SIGNAL
			PAN TILT ZOOM CAMERA
			PEDESTRIAN PUSH BUTTON
			PULL BOX
			CONDUIT
			SYSTEM DETECTOR

TYPICAL LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	SETBACK	
	EASEMENT	
	CURB	
	WETLAND LINE	
11.13	SPOT ELEVATION	11.13
11.13 TOC 11.03 BOC	TOP & BOTTOM OF CURB	11.13 TOC 11.03 BOC
15	CONTOUR	15
	PAINTED ARROW	

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
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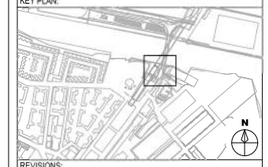

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99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

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M666-C1
CHARLESTOWN
COMMUNITY PATH IMPROVEMENTS
BARRY FIELD CONNECTION
(COMPONENT 1)

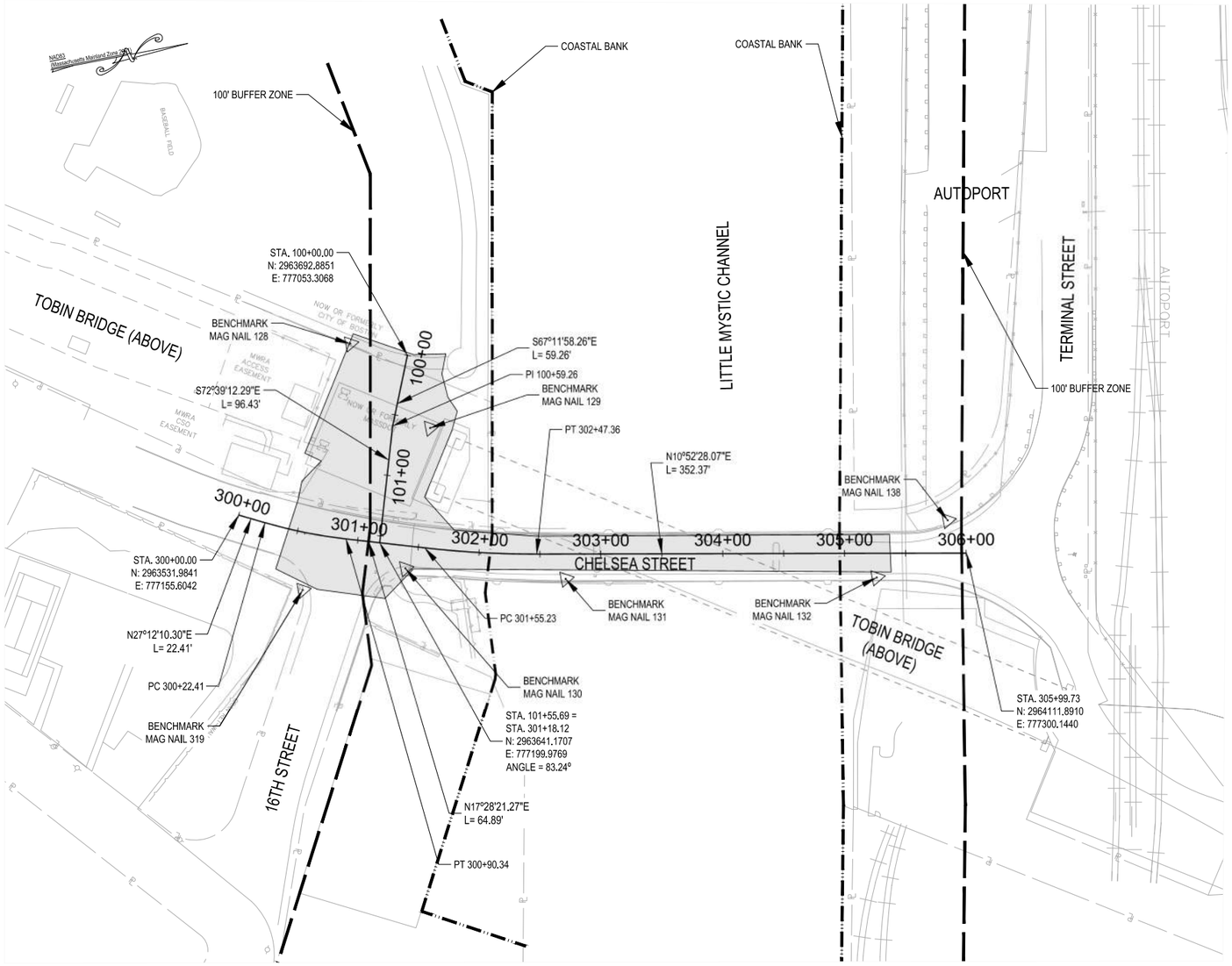
SHEET TITLE:
LEGEND & ABBREVIATIONS

DISCIPLINE:
CIVIL

DRAWN BY:	CHECKED BY:	APPROVED BY:
CWA	RDL	RDL

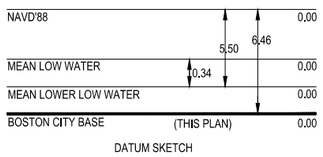
SCALE: N/A
DATE: MAY 2021

DRAWING NAME: G-002
SHEET 3 OF 30



BENCHMARK/CONTROL POINT TABLE			
BENCHMARK	DESCRIPTION	ELEV.	NORTHING/EASTING
128	MAG NAIL	10.35'	N2963648.6500', E777035.0200'
129	MAG NAIL	12.45'	N2963699.8000', E777115.4600'
130	MAG NAIL	21.43'	N2963657.8300', E777224.6500'
131	MAG NAIL	22.96'	N2963785.2700', E777258.1600'
132	MAG NAIL	19.22'	N2964035.9500', E777305.7600'
138	MAG NAIL	16.18'	N2964102.1000', E777270.8100'
319	MAG NAIL	19.65'	N2963571.7700', E777225.9900'

CURVE DATA							
PI STATION	NORTHING	EASTING	DELTA	RADIUS	LENGTH	BEARING BACK	BEARING AHEAD
300+56.46	2963582.1986	777181.4141	170°16'11"	400'	67.93'	N27°12'10"E	N17°28'21"E
302+01.35	2963720.5595	777224.9663	173°24'07"	800'	92.13'	N17°28'21"E	N10°52'28"E



DATUM SKETCH

LEGEND

- CONTROL POINT/BENCHMARK
- APPROXIMATE LIMIT OF WORK
- 100' BUFFER ZONE
- COASTAL BANK

0 100 200
SCALE: 1" = 100'

NOTES:
1. ALL BASELINES SHOWN ARE INDEPENDENT FROM ANY PRIOR WORK OR HISTORICAL PROJECTS.

massport
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.
SIGNED
NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.	DATE:	DESCRIPTION:	BY:
1	12/13/21	CONTROL POINT CHANGES	BEF
2	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

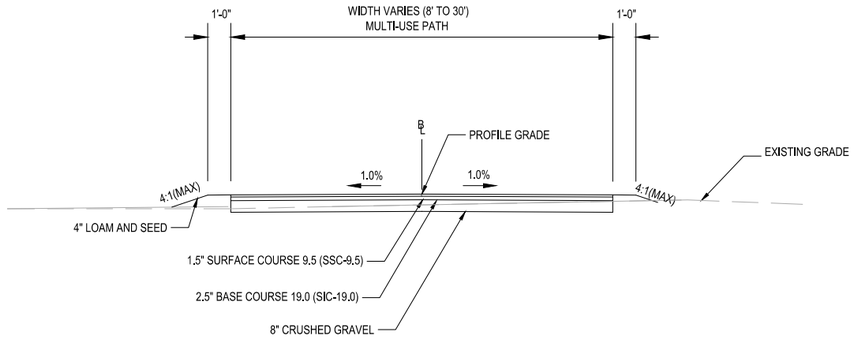
SHEET TITLE:
KEY AND ALIGNMENT PLAN

DISCIPLINE:
CIVIL

DRAWN BY:	CHECKED BY:	APPROVED BY:
CWA	RDL	RDL

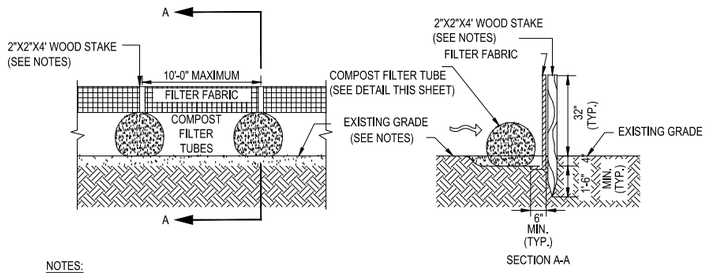
SCALE: AS NOTED
DATE: MAY 2021

DRAWING NAME: G-003
SHEET 4 OF 30



PATH TYPICAL SECTION

NOT TO SCALE

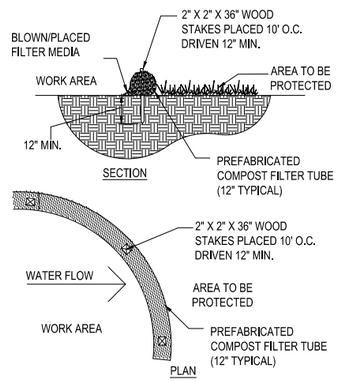


NOTES:

1. FABRIC TO BE UV RESISTANT POLYPROPYLENE WITH A MINIMUM WEIGHT OF 2.5 OZ./S.Y.
2. FABRIC TO BE ATTACHED TO STAKES WITH STAPLES.
3. USE SILT FENCE AND COMPOST FILTER TUBES WHERE INDICATED OR AS DIRECTED BY THE ENGINEER.
4. INSTALL COMPOST FILTER TUBES PER DETAIL THIS SHEET.
5. A MINIMUM OF (2) WOOD OR METAL STAKES PER HAYBALE. DRIVE STAKES A MINIMUM OF 12" INTO GROUND.
6. REMOVE SILT FENCE AND COMPOST FILTER TUBE AT THE DIRECTION OF THE OWNER.

COMPOST FILTER TUBES AND SILT FENCE FOR EROSION CONTROL

NOT TO SCALE

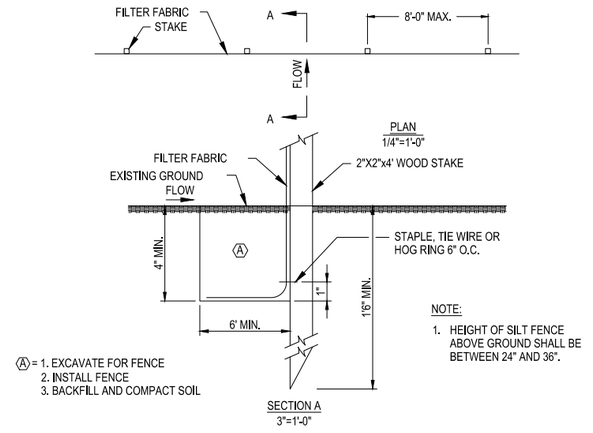


NOTES:

1. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

COMPOST FILTER TUBE

NOT TO SCALE

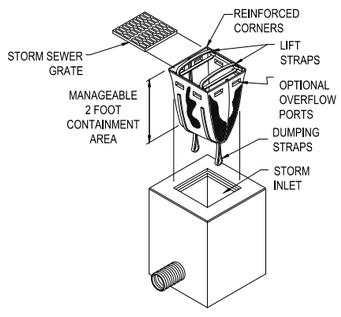


NOTE:

1. HEIGHT OF SILT FENCE ABOVE GROUND SHALL BE BETWEEN 24" AND 36".

SILT FENCE

NOT TO SCALE



SACK SPECIFICATIONS

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV HFDS-SO
GRAB TENSILE STRENGTH	ASTM D 4632	kN (LBS)	1.62 (365) x 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 x 10
PUNCTURE STRENGTH	ASTM D 4833	kN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	kPa (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	kN (LBS)	0.51 (115) x 0.33 (75)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	Mm (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/M ^{2} (GAL/MIN/FT ^{2})	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC^{-1}	2.1

RFDS-B REGULAR FLOW SACK (BLACK)

HFDS-SO HI-FLOW SACK (SAFETY ORANGE)

NOTE: THE CURB SACK WILL BE MANUFACTURED FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE MANUFACTURER'S SPECIFICATIONS:

*NOTE: SACKS CAN BE ORDERED WITH OPTIONAL OIL ABSORBENT PILLOWS

NOTES:

1. INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
2. GRATE TO BE PLACED OVER SILTSACK.
3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.

SILTSACK

NOT TO SCALE

massport
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

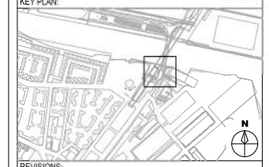
PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:



REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

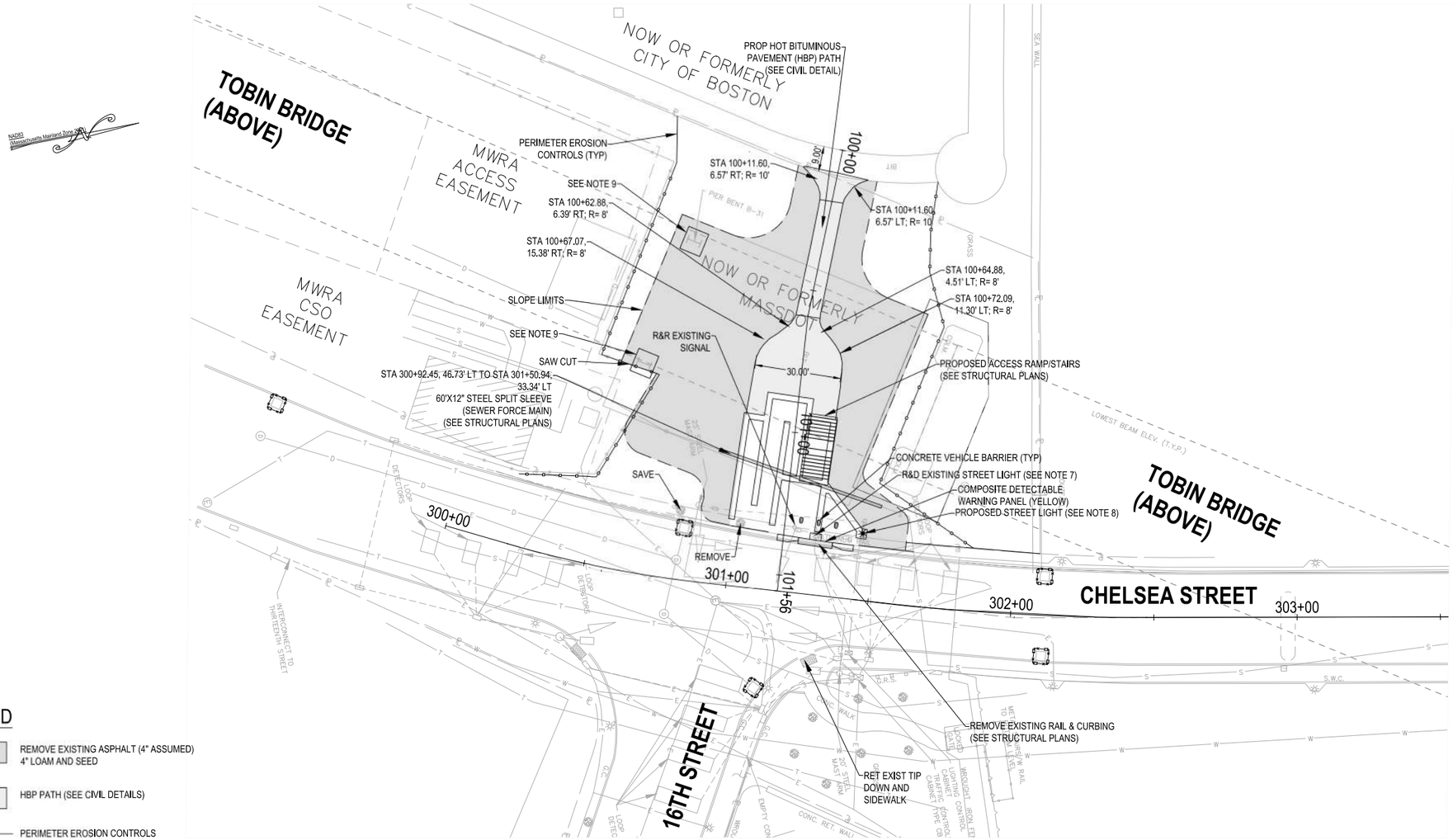
SHEET TITLE:
CIVIL DETAILS

DISCIPLINE:
CIVIL

DRAWN BY:	CHECKED BY:	APPROVED BY:
CWA	RDL	RDL

SCALE: N/A
DATE: MAY 2021

DRAWING NAME: SHEET 5 OF 30
C-001



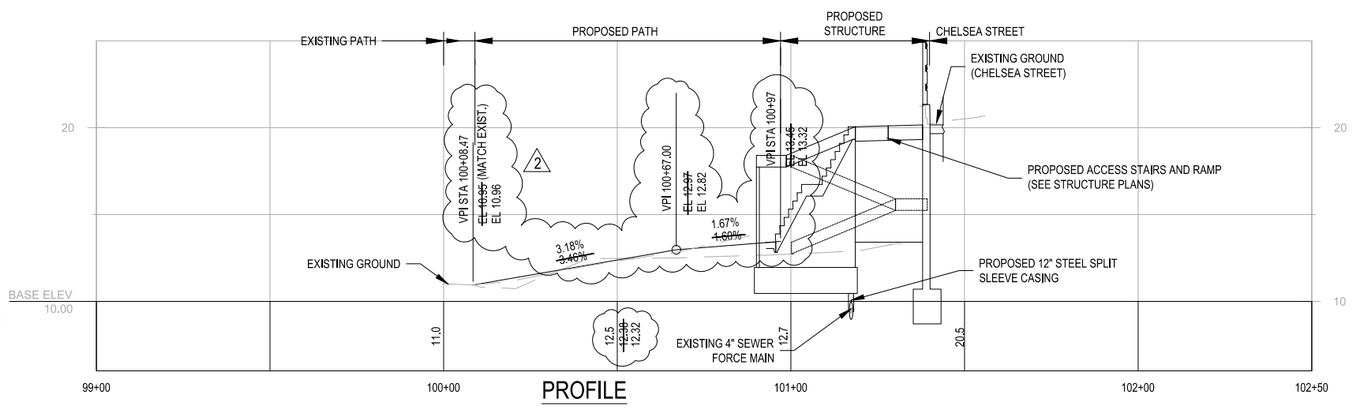
PLAN

LEGEND

- REMOVE EXISTING ASPHALT (4" ASSUMED) 4" LOAM AND SEED
- HBP PATH (SEE CIVIL DETAILS)
- PERIMETER EROSION CONTROLS
- CATCH BASIN SILT SACK

NOTES:

1. SEE KEY AND ALIGNMENT PLAN FOR LAYOUT INFORMATION.
2. SEE GRADING AND PAVEMENT MARKING PLAN FOR ADDITIONAL INFORMATION.
3. SEE STRUCTURE PLANS FOR RAMP/STAIR INFORMATION AND DEMOLITION LIMITS.
4. SEE SIGNAL PLANS FOR CONDUIT, LIGHTING WITH SIGNAL LOCATIONS.
5. SEE EROSION AND SEDIMENT CONTROL DETAILS FOR PERIMETER AND CATCH BASIN SEDIMENT CONTROLS.
6. SEE CIVIL DETAILS FOR TYPICAL PATH SECTION.
7. EXISTING CONCRETE STREET LIGHT POLE TO BE REMOVED AND DISPOSED OF BY CONTRACTOR. EXISTING LUMINAIRE SHALL BE SALVAGED TO THE CITY OF BOSTON STREET LIGHT DEPARTMENT (INCIDENTAL).
8. PROPOSED STREET LIGHT POLE AND LUMINAIRE ARE TO BE PROVIDED AND INSTALLED BY THE CITY OF BOSTON STREET LIGHT DEPARTMENT.
9. THE PROPOSED FINISHED GROUND ELEVATION AT BENT (B-31) SHALL NOT EXCEED THE EXISTING TOP OF PAVEMENT AROUND EACH CONCRETE PEDESTAL.



PROFILE

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.
SIGNED
NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.	DATE:	DESCRIPTION:	BY:
1	9/28/21	ADDED BENT B-13 TO BASEPLAN	
2	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN
COMMUNITY PATH IMPROVEMENTS
BARRY FIELD CONNECTION
(COMPONENT 1)

SHEET TITLE:
GENERAL PLAN AND PROFILE

DISCIPLINE:
CIVIL

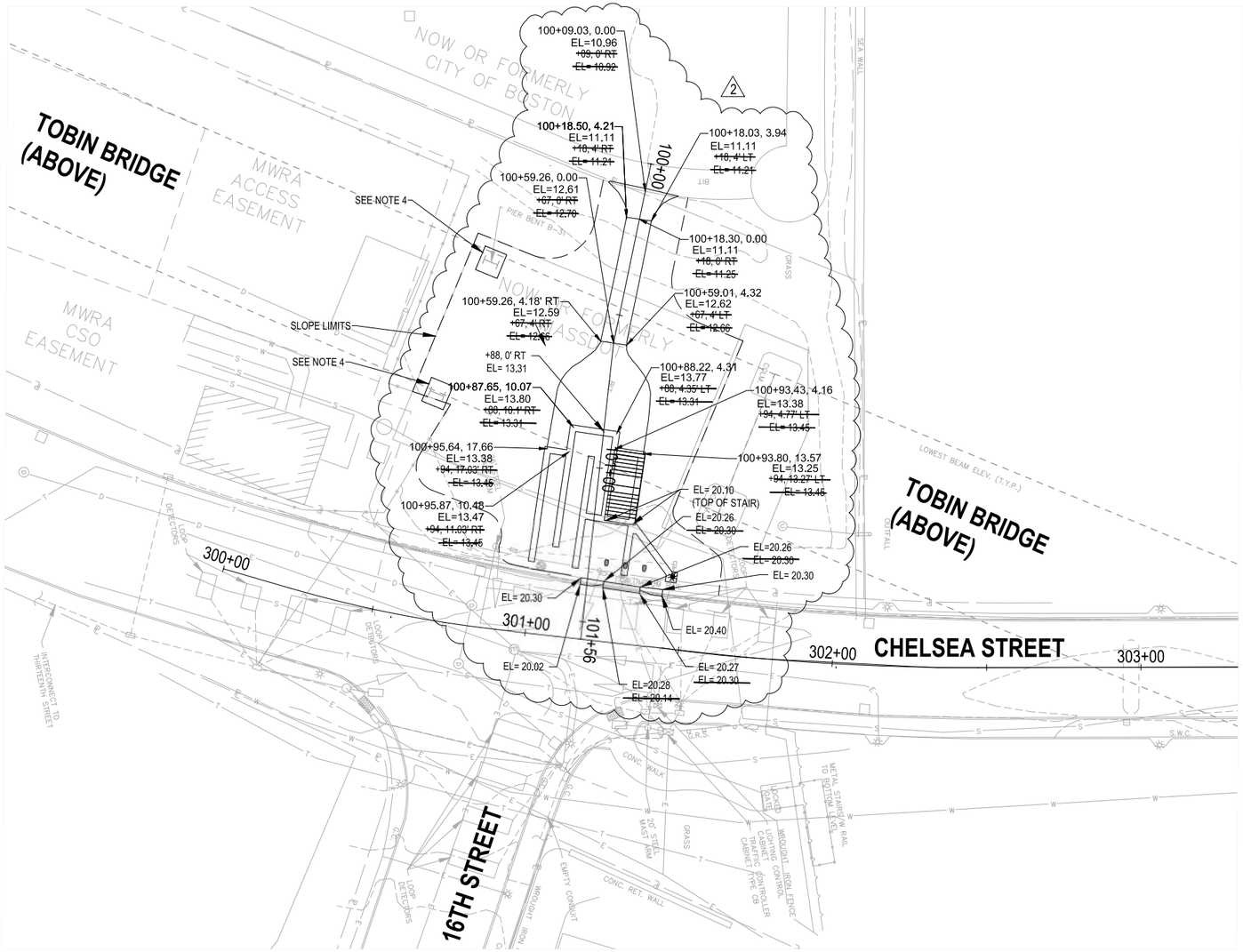
DRAWN BY:	CHECKED BY:	APPROVED BY:
CWA	RDL	RDL

SCALE: AS NOTED
DATE: MAY 2021

DRAWING NAME: C-101
SHEET 6 OF 30

MPA - 11/16/2022 11:23:57 AM - c:\pwworking\east01\d2905409\M666-C101_Barry Field.dwg

NAD83
Massachusetts Mainland Zone 3001



NOTES:

1. SEE KEY AND ALIGNMENT PLAN FOR LAYOUT INFORMATION.
2. SEE GENERAL PLANS FOR PROPOSED LAYOUT INFORMATION.
3. SEE STRUCTURAL PLANS FOR ADDITIONAL INFORMATION ON STAIRS AND RAMPS.
4. THE PROPOSED FINISHED GROUND ELEVATION AT BENT (B-31) SHALL NOT EXCEED THE EXISTING TOP OF PAVEMENT AROUND EACH CONCRETE PEDESTAL. ⚠1

0 20 40
SCALE: 1" = 20'

massport
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
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SIGNED
NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.	DATE:	DESCRIPTION:	BY:
1	9/28/21	ADDED BENT B-13 TO BASEPLAN	
2	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN
COMMUNITY PATH IMPROVEMENTS
BARRY FIELD CONNECTION
(COMPONENT 1)

SHEET TITLE:
GRADING PLAN

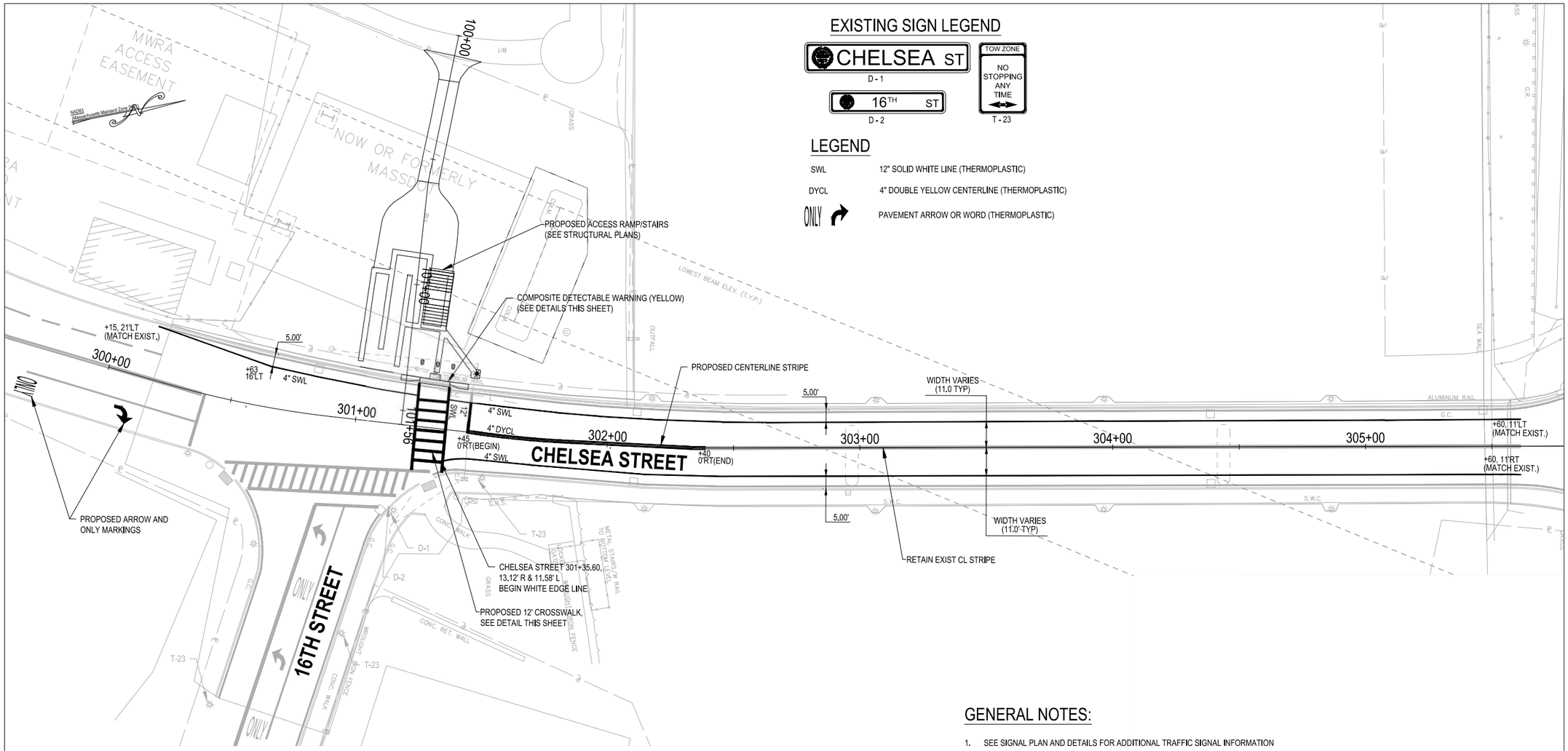
DISCIPLINE:
CIVIL

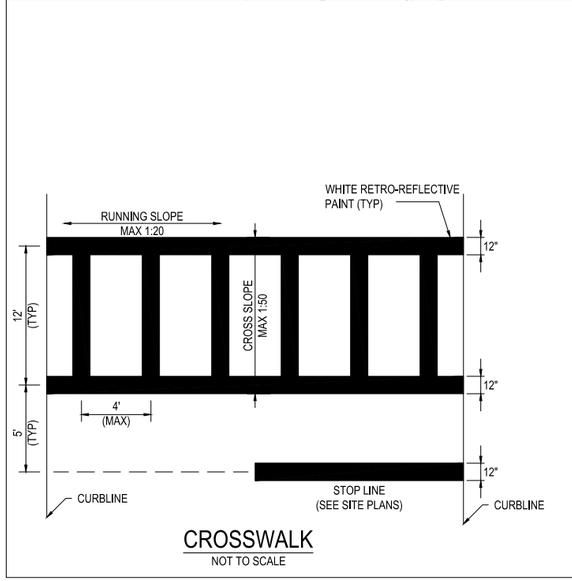
DRAWN BY:	CHECKED BY:	APPROVED BY:
CWA	RDL	RDL

SCALE: AS NOTED
DATE: MAY 2021

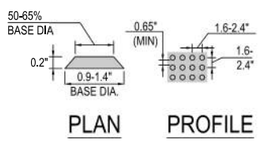
DRAWING NAME:
SHEET 7 OF 30
C-102

MPA - 11/16/2022 11:21:31 AM - c:\pwworking\east01\d2905409\M666-C102_Grading Plan.dwg

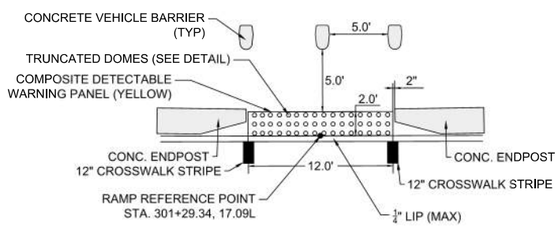




CROSSWALK
NOT TO SCALE



TRUNCATED DOMES
NOT TO SCALE



PEDESTRIAN ACCESS RAMP
NOT TO SCALE

GENERAL NOTES:

1. SEE SIGNAL PLAN AND DETAILS FOR ADDITIONAL TRAFFIC SIGNAL INFORMATION
2. THE FINAL LOCATIONS OF THE SIGNS MAY BE ADJUSTED IN THE FIELD AS APPROVED BY THE ENGINEER.
3. ALL PAVEMENT MARKING LINES, WORDS AND ARROWS SHALL BE RETROREFLECTIVE THERMOPLASTIC.
4. PROPOSED PAVEMENT MARKINGS (LEGENDS AND ARROWS) SHALL BE INSTALLED IN ACCORDANCE WITH THE MUTCD & MASSDOT CONSTRUCTION AND TRAFFIC DETAILS.
5. SEE SITE LAYOUT AND KEY PLAN FOR LAYOUT INFORMATION.

ACCESS CURB RAMP CONSTRUCTION NOTES

1. CURB RAMPS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN AND THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB) RULES AND REGULATIONS (521 CMR).
2. THE RUNNING SLOPE OF CURB RAMPS SHALL NOT BE GREATER THAN 1:12. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE GREATER THAN 1:20. THE CROSS SLOPE OF CURB RAMPS AND WALKING SURFACES SHALL NOT BE GREATER THAN 1:50 OR LESS THAN 1:100.
3. DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES AND BE INSTALLED PERPENDICULAR TO THE ACCESSIBLE ROUTE.

CROSSWALK DETAIL NOTES

1. CROSSWALKS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN AND THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB) RULES AND REGULATIONS (521 CMR).
2. THE RUNNING SLOPE (SLOPE THAT IS PARALLEL TO THE DIRECTION OF TRAVEL) SHALL NOT BE GREATER THAN 1:20.
3. THE CROSS SLOPE (SLOPE THAT IS PERPENDICULAR TO THE DIRECTION OF TRAVEL) SHALL NOT BE GREATER THAN 1:50 OR LESS THAN 1:100.
4. TWELVE INCH (12") THERMO-PLASTIC LINES SHALL BE APPLIED IN ONE APPLICATION. NO COMBINATION OF LINES WILL BE ACCEPTED.
5. LAYOUT OF CROSSWALKS SHALL BE APPROVED BY A BRA/EDIC ENGINEER PRIOR TO THERMO-PLASTIC BEING APPLIED.

0 20 40
SCALE: 1" = 20'

massport
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.
SIGNED
NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

SHEET TITLE:
PAVEMENT MARKING PLAN

DISCIPLINE:
CIVIL

DRAWN BY:	CHECKED BY:	APPROVED BY:
CWA	RDL	RDL

SCALE: AS NOTED
DATE: MAY 2021

DRAWING NAME:
SHEET 8 OF 30
C-103

MPA - 11/14/2022 8:41:45 AM - c:\pwworking\east01\d2905409\M666-C103_Barry Field.dwg

TIMING AND SEQUENCE CHART

(APPROX.)
CHELSEA STREET / SIXTEENTH STREET

STREET/DIRECTION/FACE	Ø1 GRN	Ø1 CL	Ø1 CL	Ø2 GRN	Ø2 CL	Ø2 CL	Ø3 GRN	Ø3 CL	Ø3 CL		CL	CL		CL	CL	FLASHING OPERATION
CHELSEA ST/NB/2A,2B	G	Y	R	R	R	R	R	R	R							FY
CHELSEA ST/SB/5A,6A,6B	G	Y	R	R	R	R	R	R	R							FY
SIXTEENTH ST/WB/6C,7A	R	R	R	R	R	R	G	Y	R							FR
CROSSWALK/N-S/3E-5E	DW	DW	DW	W	FWD	DW										OFF
CROSSWALK/E-W/4E-7E	DW	DW	DW	W	FWD	DW										

		Ø1			Ø2			Ø3								
INTERVALS	MINIMUM GREEN	8			-			8								
	VEHICLE EXTENSION	2			-			2								
	MAXIMUM 1 GREEN	25			-			25								
	MAXIMUM 2 GREEN	30			-			30								
	YELLOW CLEARANCE		3						3							
	RED CLEARANCE			3			4			2						
	WALK INTERVAL				7											
	PED. CLEARANCE					15										
	MEMORY	NON-LOCK			-			NON-LOCK								
	RECALL (VEH./PED.)	OFF			OFF			OFF								

PROGRAM/COORDINATION

CYCLE NO.	CYCLE LENGTH	OFFSET (SEC.)	PHASE SPLITS IN SECONDS Ø1	Ø2	Ø3
1	-	-	-	-	-
2	-	-	-	-	-
3	-	-	-	-	-

COORDINATED OPERATION
—
—
PROGRAMMED FLASH

HOURS OF OPERATION
—
EMERGENCY ONLY

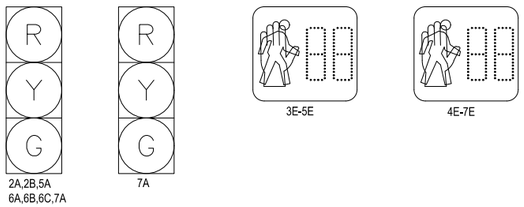
LOOP DETECTOR DATA								
IDENT.	QTY.	SIZE	SPLICE	TURNS	MODE	ØCALL	ØEXT.	CHNL.
D1	4	E	E	3	PRES.	1	E	-
D2	4	E	E	3	PRES.	1	E	-
D3	4	E	E	3	PRES.	3	E	-

CLEARANCES								
FROM \ TO	G	R	DW					
G	G	Y	-					
-	-	-	-					
W	-	-	FDW					

TECHNICAL NOTES
1. MAX 1: DURING FREE OPERATION.
2. MAX 2, 3PM-7PM, MON-FRI

S/P = SERIES/PARALLEL
E = EXISTING
PRES = PRESENCE

SIGNAL DISPLAY
PER BTD SPECIFICATIONS



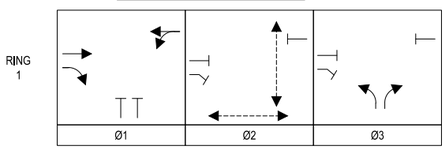
2A,2B,5A
6A,6B,6C,7A

7A

3E-5E

4E-7E

PHASING DIAGRAM



massport
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

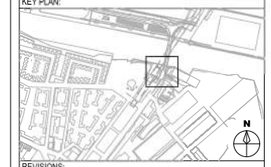
PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.
SIGNED
NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:



REVISIONS:

REV NO.	DATE:	DESCRIPTION:	BY:
1	10/31/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN
COMMUNITY PATH IMPROVEMENTS
BARRY FIELD CONNECTION
(COMPONENT 1)

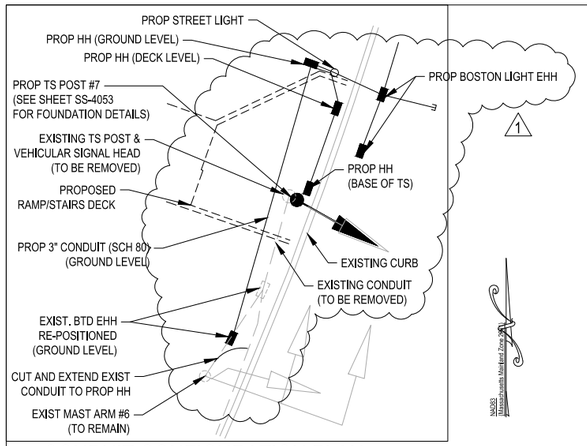
SHEET TITLE:
CHELSEA STREET AT
SIXTEENTH STREET
TRAFFIC SIGNAL PLAN - 2 OF 2

DISCIPLINE:
CIVIL

DRAWN BY:	CHECKED BY:	APPROVED BY:
CWA	RP	RP

SCALE: N/A
DATE: MAY 2021

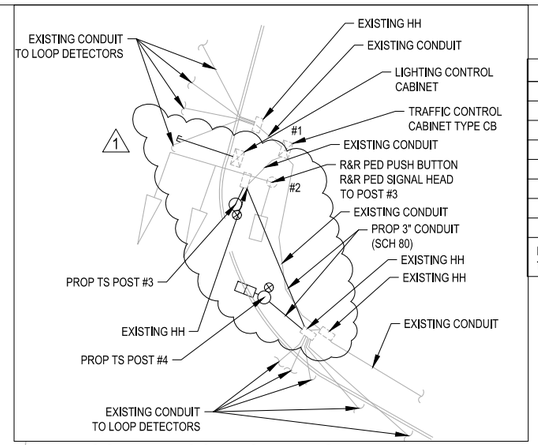
DRAWING NAME: TR-02
SHEET 10 OF 30



CONDUIT CONFIGURATION PLAN

NOT TO SCALE

(NOTE: SEE CONDUIT CONFIGURATION PROFILE BELOW FOR ADDITIONAL DETAIL AT CONCRETE RAMPS/STAIRS)



CONDUIT CONFIGURATION PLAN

NOT TO SCALE

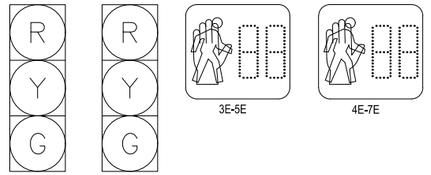
MAJOR ITEMS REQUIRED

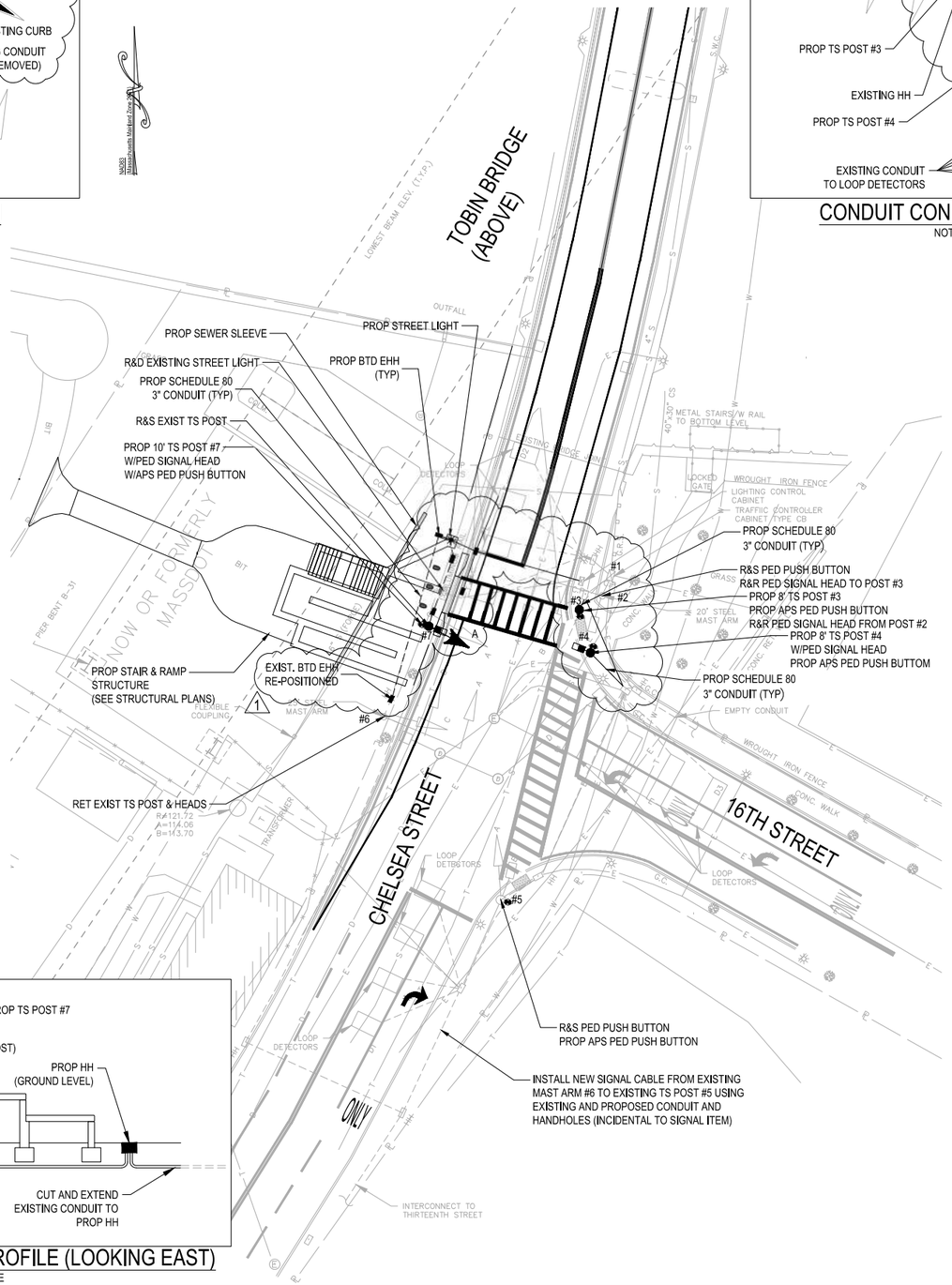
QUANTITY	MAJOR ITEMS REQUIRED
2	8' SIGNAL POST, BASE, PEDESTAL & FOUNDATION
1	10' SIGNAL POST, BASE, PEDESTAL & FOUNDATION
1	12"- 3 SECTION (R,Y,G) L.E.D. VEHICLE SIGNAL INDICATION
2	16"- PEDESTRIAN L.E.D. SIGNAL COUNTDOWN INDICATION
4	APS PEDESTRIAN PUSHBUTTON
4	12" X 24" HAND HOLE WITH FRAME & COVER
60'	3" DIAMETER CONDUIT, NM, SCHEDULE 80

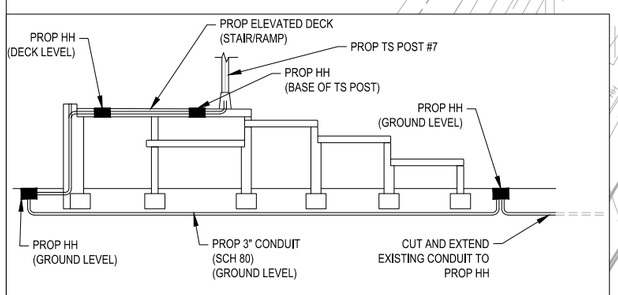
PLUS ALL MISCELLANEOUS EQUIPMENT, WIRING, CABLE AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL.

SIGNAL DISPLAY

PER BTD SPECIFICATIONS







CONDUIT CONFIGURATION PROFILE (LOOKING EAST)

NOT TO SCALE

GENERAL NOTES:

1. ALL VEHICLE INDICATIONS SHALL BE 12" L.E.D. AND SHALL BE EQUIPPED WITH TUNNEL VISORS.
2. ALL PEDESTRIAN INDICATIONS SHALL BE 16" L.E.D. AND SHALL COUNTDOWN AND BE EQUIPPED WITH SUN CAP VISORS.
3. ALL VEHICLE INDICATIONS MOUNTED ON MAST ARMS SHALL BE RIGID MOUNTED AND BE EQUIPPED WITH 5" NON-LOUVERED BACKPLATES.
4. PEDESTRIAN WALK AND DON'T WALK SYMBOLS SHALL BE SOLID-TYPE L.E.D.
5. SEE PAVEMENT MARKING PLAN C-103 FOR ADDITIONAL DETAILS.
6. ALL TRAFFIC SIGNAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH BTD SPECIFICATIONS.

CONSTRUCTION NOTES:

1. PULL BOXES SHALL BE ADJACENT TO CURB UNLESS OTHERWISE NOTED AND SHALL NOT BE LOCATED IN WHEELCHAIR RAMPS.
2. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC.
3. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, THEY SHOULD BE REMOVED BY AN APPROVED METHOD.
4. RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.
5. TS POST/POLE, WITH PEDESTRIAN PUSH BUTTON, NOT LOCATED WITHIN A PAVED SURFACE SHALL BE POSITIONED SO AS TO PROVIDE A 10" MAX CLEAR REACH ZONE BETWEEN THE PEDESTRIAN PUSH BUTTON AND THE PAVED SURFACE PER 521 CMR AND AS SHOWN IN THE CONSTRUCTION DETAILS.

0 20 40
SCALE: 1" = 20'

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.
SIGNED
NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN
COMMUNITY PATH IMPROVEMENTS
BARRY FIELD CONNECTION
(COMPONENT 1)

SHEET TITLE:
CHELSEA STREET AT
SIXTEENTH STREET
TRAFFIC SIGNAL PLAN - 1 OF 2

DISCIPLINE:
CIVIL

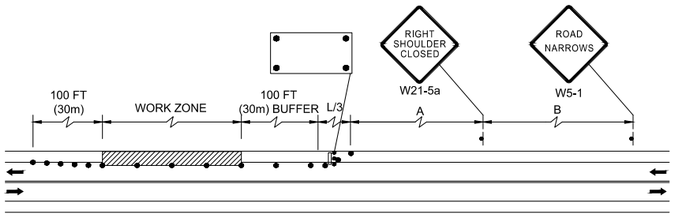
DRAWN BY:	CHECKED BY:	APPROVED BY:
CWA	RP	RP

SCALE: AS NOTED
DATE: MAY 2021

DRAWING NAME: TR-01
SHEET 9 OF 30

NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
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 NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "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 PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A 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 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.



TWO LANE ROAD
SHOULDER CLOSED
NOT TO SCALE

LEGEND:

- REFLECTORIZED PLASTIC DRUM OR 36" CONE
- P/F POLICE/FLAGGER DETAIL
- TYPE III BARRICADE
- CHANGEABLE MESSAGE SIGN
- ARROW BOARD
- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR
- MEDIAN BARRIER
- MEDIAN BARRIER WITH WARNING LIGHTS
- WORK VEHICLE
- TRUCK MOUNTED ATTENUATOR
- TRAFFIC OR PEDESTRIAN SIGNAL
- SIGN

THE IDEAL CAPACITY OF A MAJOR HIGHWAY IS GENERALLY CONSIDERED TO BE 1900 PASSENGER CARS PER HOUR PER LANE (PCPHPL). IN WORK ZONES ON A MULTI-LANE DIVIDED HIGHWAY, THE FOLLOWING VOLUME GUIDELINES HAVE BEEN SUGGESTED:

MEASURED AVERAGE WORK ZONE CAPACITIES

NUMBER OF LANES		NUMBER OF STUDIES	AVERAGE CAPACITY	
NORMAL (EXISTING)	OPEN (TO TRAFFIC)		VPH	VPHPL
3	1	7	1,170	1,170
2	1	8	1,340	1,340
5	2	8	2,740	1,370
4	2	4	2,960	1,480
3	2	9	2,980	1,490
4	3	4	4,560	1,520

Source: Dudek, C., Notes on Work Zone Capacity and Level of Service. Texas Transportation Institute, Texas A&M University, College Station, Texas (1984)

BY OBTAINING HOURLY TRAFFIC COUNTS FOR A PARTICULAR ROADWAY (WITH A MINIMUM OF A 48-HOUR AUTOMATIC TRAFFIC RECORDER (ATR) COUNT), THIS WILL HELP TO DETERMINE AT WHAT TIMES OF THE DAY OR NIGHT A CERTAIN NUMBER OF LANES MAY BE CLOSED.

SUGGESTED WORK ZONE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS ** (FT)		
	A	B	C
LOCAL OR LOW VOLUME ROADWAYS*	350	350	350
MOST OTHER ROADWAYS*	500	500	500
FREEWAYS AND EXPRESSWAYS*	1,000	1,500	2,640

* ROAD TYPE TO BE DETERMINED BY MASSDOT OFFICE OF TRANSPORTATION PLANNING.

** DISTANCES ARE SHOWN IN FEET. THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/ TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "THIRD" SIGN IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCE WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCE WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e, THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT. ADDITIONAL SIGNS (i.e, "RIGHT LANE CLOSED 1 MILE" AND "LEFT LANE CLOSED 1 MILE") HAVE BEEN SHOWN IN SOME FIGURES AS EXAMPLES OF REINFORCEMENT SIGN PLACEMENT BUT ARE USED IN RARE OCCASIONS.

THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERRED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS LOCATED.

MA-R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

MA-R2-10a, MA-R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

Based on: Table 6C-1 MUTCD LATEST EDITION

STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

SPEED* (mph)	DISTANCE (ft)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

*POSTED SPEED, OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED

THESE VALUES MAY BE USED TO DETERMINE THE LENGTH OF LONGITUDINAL BUFFER SPACES.

THE DISTANCES IN THE ABOVE CHART REPRESENT THE MINIMAL VALUES FOR BUFFER SPACING.

Source: Table 6C-2 MUTCD LATEST EDITION

CONVENTIONAL ROADWAY- A STREET OR HIGHWAY OTHER THAN A LOW-VOLUME ROAD, EXPRESSWAY, OR FREEWAY.

EXPRESSWAY- A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.

FREEWAY- A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

LOW-VOLUME ROAD- A FACILITY LYING OUTSIDE OF BUILT-UP AREAS OF CITIES, TOWNS, AND COMMUNITIES, AND IT SHALL HAVE A TRAFFIC VOLUME OF LESS THAN 400 AADT. IT SHALL NOT BE A FREEWAY, EXPRESSWAY, INTERCHANGE RAMP, FREEWAY SERVICE ROAD OR A ROAD ON A DESIGNATED STATE HIGHWAY SYSTEM.

Source: MUTCD LATEST EDITION

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MIN. 100 FT MAX.
DOWNSTREAM TAPER	50 FT MIN. 100 FT MAX. PER LANE

Source: Table 6C-3 MUTCD LATEST EDITION

FORMULAS FOR DETERMINING TAPER LENGTHS

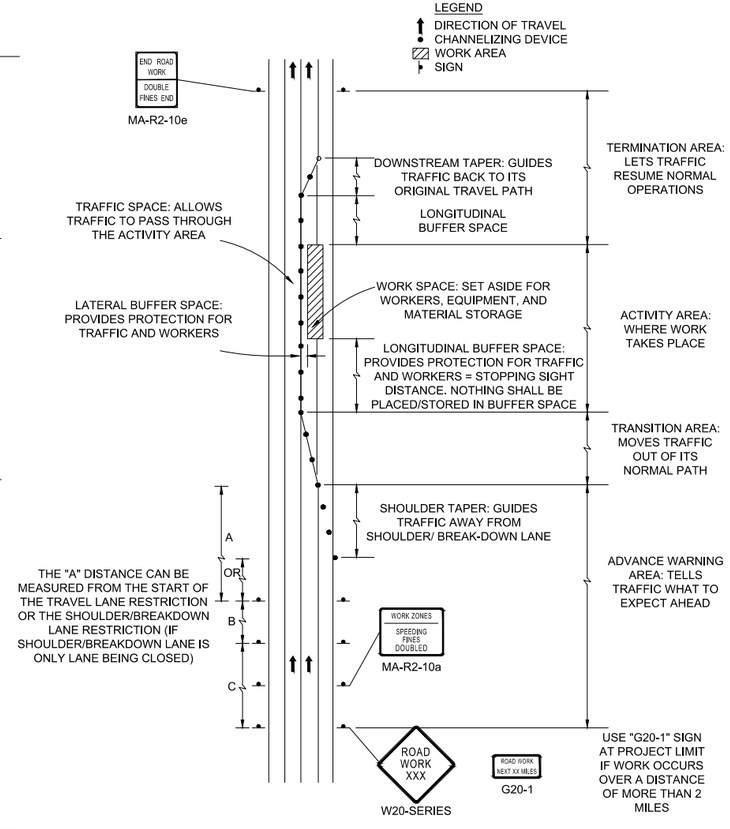
SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	$L = WS$

WHERE: 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 ANTICAPATED OPERATING SPEED IN MPH

Source: Table 6C-4 MUTCD LATEST EDITION



COMPONENT PARTS OF A TEMPORARY
TRAFFIC CONTROL (TTC) ZONE
NOT TO SCALE

massport
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.
SIGNED
NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

SHEET TITLE:
TRAFFIC MANAGEMENT PLANS

DISCIPLINE: CIVIL

DRAWN BY:	CHECKED BY:	APPROVED BY:
CWA	RDL	RDL

SCALE: N/A
DATE: MAY 2021

DRAWING NAME: TM-001
SHEET 11 OF 30

GENERAL NOTES:

DESIGN SPECIFICATIONS, STANDARDS, AND GUIDELINES:

1. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017.
2. MASSDOT 2013 LRFD BRIDGE MANUAL, INCLUDING ALL INTERIM REVISIONS.
3. INTERNATIONAL BUILDING CODE (IBC) 2015.
4. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-19).
5. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS 2015, , INCLUDING ALL INTERIM REVISIONS.
6. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-10).

GENERAL:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL PERFORM SURVEY OF PROJECT LOCATION IN SUFFICIENT DETAIL TO PERFORM THE WORK, THE SURVEY SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
2. EXISTING RETAINING WALL DETAILS, INCLUDING RAILING, CURBS, AND ELEVATIONS SHOWN ON THE PLANS HAVE BEEN COMPILED FROM THE JULY 3, 1982 AS-BUILT PLANS OF BRIDGE B-16-384. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND SHALL REPORT ANY DISCREPANCIES BETWEEN ACTUAL EXISTING CONDITIONS AND INFORMATION SHOWN ON THE PLAN TO THE ENGINEER, PRIOR TO PROCEEDING WITH WORK.
3. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.
4. COORDINATES SHOWN HEREON REFER TO THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) IN U.S. SURVEY FEET, MASSACHUSETTS MAINLAND ZONE.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL ENSURE UTILITIES ARE PROTECTED IN PLACE AS CALLED FOR ON THE PLANS AND IN THE PROJECT SPECIFICATION.
6. THE CONTRACTOR SHALL EXCAVATE TO FULLY EXPOSE THE SEWER FORCEMAIN AND INSTALL A 12" SPLIT SLEEVE.

LEGEND

1. REMOVAL OF EXISTING AL-3 RAIL:
2. REMOVAL OF REINFORCED CONCRETE:
3. REMOVAL OF EXISTING PAVEMENT:
4. GENERAL EXCAVATION:
5. EXCAVATION AROUND SEWER FORCE MAIN:
6. EXISTING REINFORCED CONCRETE:
7. PROPOSED REINFORCED C.I.P. CONCRETE:
8. PROPOSED PRECAST CONCRETE:
9. PROPOSED CRUSHED STONE:
10. PROPOSED BACKFILL:
11. PROPOSED COMPRESSIBLE FOAM:
12. PROPOSED RIGID FOAM:
13. PROPOSED PAVEMENT:

MATERIALS:

CONCRETE:

1. STRENGTH (MINIMUM REQUIREMENT):

		28-DAY
A.	CAST-IN-PLACE CONCRETE CURB AND END POST	5,000 PSI
B.	CAST-IN-PLACE CONCRETE WALLS AND GRADE BEAMS	4,000 PSI
C.	PRECAST PANELS	4,000 PSI

PRECAST

1. PRECAST PANELS SHALL BE HANDLED AND ERECTED USING LIFTERS ONLY. THE MINIMUM SLING ANGLE SHALL BE 60 DEGREES FROM THE HORIZONTAL. PRECAST PANELS SHALL BE STORED & TRANSPORTED WITH TIMBER SUPPORTS.

REINFORCING STEEL

1. ALL REINFORCING STEEL AND SUPPORTING DEVICES SHALL BE EPOXY COATED IN CONFORMANCE WITH THE REQUIREMENTS OF AASHTO M284, EXCEPT AS OTHERWISE NOTED.
2. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60. ALL BARS SHALL BE LAPPED AS FOLLOWS:

	MODIFICATION CONDITION	#4 BARS	#5 BARS	#6 BARS	#7 BARS
A.	NONE	21"	26"	31"	39"
B.	12" OF CONCRETE BELOW BAR	29"	36"	43"	55"
C.	COATED BARS, COVER < 3db, OR CLEAR SPACING < 6db	31"	39"	47"	59"
D.	COATED BARS, ALL OTHER CASES	25"	31"	37"	47"
E.	CONDITION B AND C	35"	44"	53"	66"
F.	CONDITION B AND D	34"	43"	52"	66"

IF THE ABOVE BARS ARE SPACED 6" OR MORE ON CENTER, THE LAP LENGTH SHALL BE 80% OF THE LAP LENGTH GIVEN ABOVE. ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION DRAWINGS.

3. CONCRETE COVER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO FOR EXPOSURE TO DEICING SALTS FOR ALL ELEMENTS. OTHERWISE, CONCRETE COVER SHALL BE AS LISTED BELOW OR AS IDENTIFIED ON THE DRAWINGS:

CAST-IN-PLACE CONCRETE CURB - 3" CLEAR
CAST-IN-PLACE CONCRETE END POST - 2" CLEAR
CAST-IN-PLACE WALLS AND GRADE BEAMS - 3" CLEAR

4. ALL DIMENSIONS RELATING TO REINFORCING BARS SPACING ARE TO THE CENTER OF BARS UNLESS NOTED OTHERWISE.

PILE AND FOUNDATION

1. FINAL DESIGN OF THE HELICAL PILES WOULD BE PERFORMED BY THE SPECIALTY SUBCONTRACTOR THAT INSTALLS THE PILES, USING A PERFORMANCE-BASED DESIGN-BUILD SPECIFICATION.
2. PILES ARE DESIGNED WITH AN ALLOWABLE SERVICE LOAD CAPACITY OF 30 KIPS. IF THIS LOAD CAPACITY CAN NOT BE ACHIEVED ADDITIONAL PILES MAY BE REQUIRED.
3. HELICAL PILES SHALL BE GALVANIZED FOR CORROSION PROTECTION
4. TO PREVENT FROST HEAVE, 1'-0" OF CRUSHED STONE SHALL BE PLACED BELOW THE GRADE BEAMS.

EXISTING AL-3 RAILING

1. ALL COMPONENTS USED TO FASTEN THE RAILING TO THE END POST SHALL MATCH THE MATERIAL AND GEOMETRY OF THE EXISTING END POST CONNECTION (FROM JULY 3, 1982 BRIDGE B-16-384 PLANS) UNLESS OTHERWISE NOTED.

ALUMINUM

CLAMP BARS - ASTM B-221 ALLOY 6061

STRUCTURAL STEEL

1. ALL ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 105 AND GALVANIZED UNLESS NOTED OTHERWISE.
2. ALL HOLLOW STRUCTURAL TUBE SECTIONS SHALL BE ASTM A-500 GRADE B.

HANDRAIL

1. HANDRAIL SHALL BE GALVANIZED AND PAINTED. CHIP COLOR SHALL BE PROVIDED BY THE OWNER.

ABBREVIATIONS

A.L.	ABOVE SLAB BEARING LEDGE	FOUND.	FOUNDATION
℄	BASELINE	FTG.	FOOTING
BIT.	BITUMINOUS	GALV.	GALVANIZED
B.L.	BELOW SLAB BEARING LEDGE	HORIZ.	HORIZONTAL
BRG.	BEARING	JT.	JOINT
C.I.P.	CAST IN PLACE	MAX.	MAXIMUM
℄	CENTERLINE	MIN.	MINIMUM
CL.,	CLR.	N.T.S.	NOT TO SCALE
	CLEARANCE	O.C.	ON CENTER
CONC.	CONCRETE	PC	PRE-CAST CONCRETE
CONSTR.	CONSTRUCTION	PROP.	PROPOSED
DIA.	DIAMETER	R&D	REMOVE AND DISPOSE
DWG.	DRAWING	R&R	REMOVE AND REPLACE
EA.	EACH	STA.	STATION
EL.,	ELEV.	TYP.	TYPICAL
	ELEVATION	UNO	UNLESS NOTED OTHERWISE
E.F.	EACH FACE	WP	WORK POINT
EXP.	EXPANSION		

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

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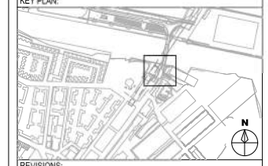
KEY PLAN:



REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:

HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
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(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN
COMMUNITY PATH IMPROVEMENTS
BARRY FIELD CONNECTION
(COMPONENT 1)

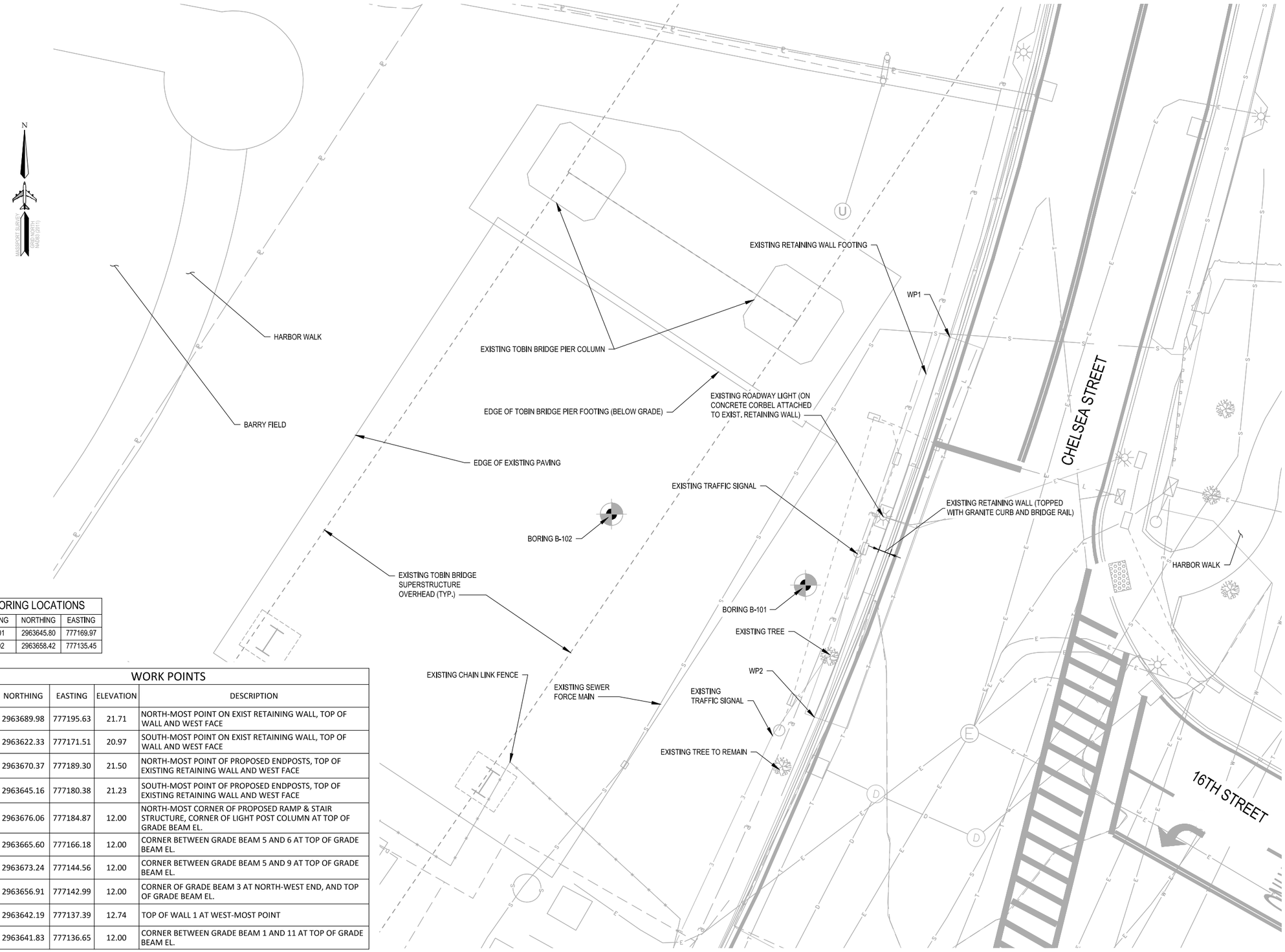
SHEET TITLE:
GENERAL NOTES

DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
BEF	PCM	RX

SCALE: N/A
DATE: MAY 2021

DRAWING NAME: S-001
SHEET 12 OF 30



EXISTING PLAN

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

BORING LOCATIONS		
BORING	NORTHING	EASTING
B-101	2963645.80	777169.97
B-102	2963658.42	777135.45

WORK POINTS				
Work Point	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2963689.98	777195.63	21.71	NORTH-MOST POINT ON EXIST RETAINING WALL, TOP OF WALL AND WEST FACE
2	2963622.33	777171.51	20.97	SOUTH-MOST POINT ON EXIST RETAINING WALL, TOP OF WALL AND WEST FACE
3	2963670.37	777189.30	21.50	NORTH-MOST POINT OF PROPOSED ENDPOSTS, TOP OF EXISTING RETAINING WALL AND WEST FACE
4	2963645.16	777180.38	21.23	SOUTH-MOST POINT OF PROPOSED ENDPOSTS, TOP OF EXISTING RETAINING WALL AND WEST FACE
5	2963676.06	777184.87	12.00	NORTH-MOST CORNER OF PROPOSED RAMP & STAIR STRUCTURE, CORNER OF LIGHT POST COLUMN AT TOP OF GRADE BEAM EL.
6	2963665.60	777166.18	12.00	CORNER BETWEEN GRADE BEAM 5 AND 6 AT TOP OF GRADE BEAM EL.
7	2963673.24	777144.56	12.00	CORNER BETWEEN GRADE BEAM 5 AND 9 AT TOP OF GRADE BEAM EL.
8	2963656.91	777142.99	12.00	CORNER OF GRADE BEAM 3 AT NORTH-WEST END, AND TOP OF GRADE BEAM EL.
9	2963642.19	777137.39	12.74	TOP OF WALL 1 AT WEST-MOST POINT
10	2963641.83	777136.65	12.00	CORNER BETWEEN GRADE BEAM 1 AND 11 AT TOP OF GRADE BEAM EL.

NOTES:

WORK POINTS SHOWN IN TABLE ABOVE APPLY TO ALL STRUCTURAL SHEETS, MOST STRUCTURAL SHEETS WILL NOT HAVE ALL WORK POINTS SHOWN, ONLY THE WORK POINTS RELEVANT TO THAT SHEET.

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.
SIGNED
NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	9/15/21	ADDED BENT B-31 TO BASEPLAN	ML
2	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN
COMMUNITY PATH IMPROVEMENTS
BARRY FIELD CONNECTION
(COMPONENT 1)

SHEET TITLE:
M666_S002 - EXISTING PLAN

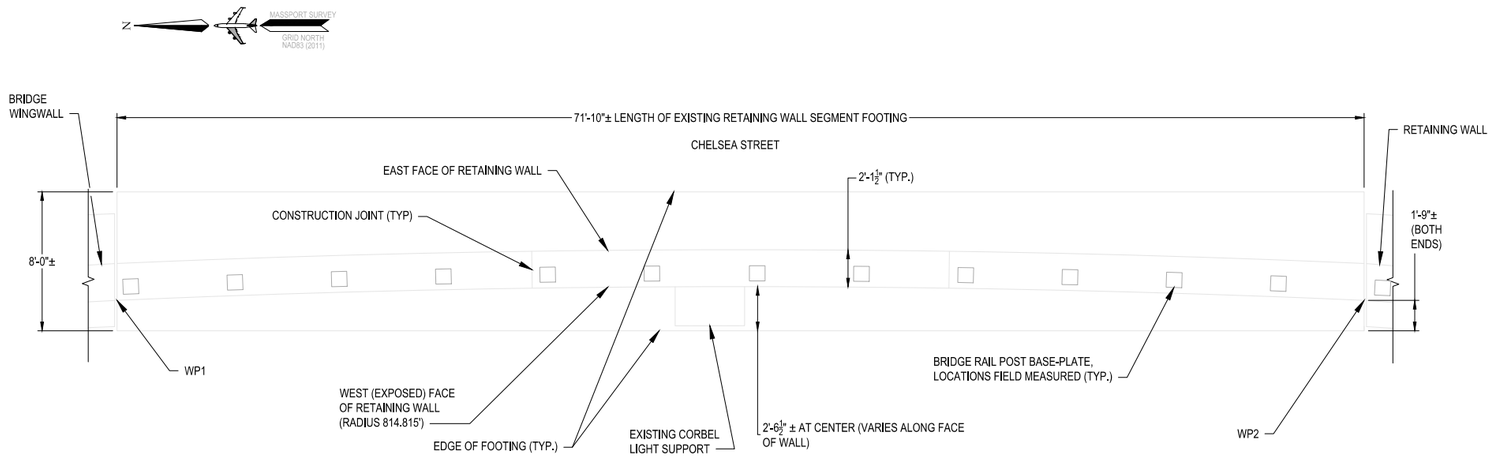
DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
BEF	PCM	RX

SCALE: AS NOTED
DATE: MAY 2021

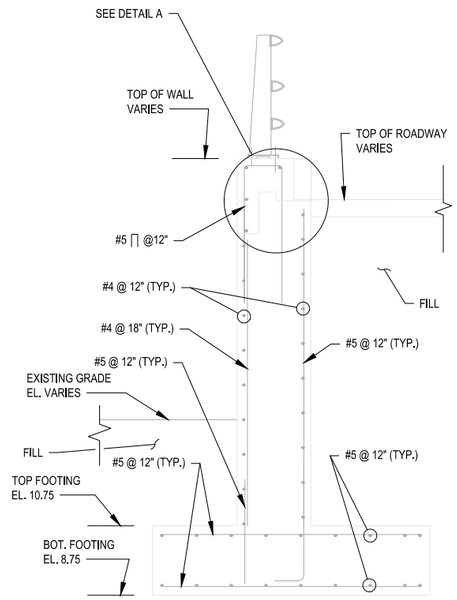
DRAWING NAME: SHEET 13 OF 30
S-002

MPA - 11/14/2022 11:35:47 AM - c:\pwworking\east01\d2905409\M666_S002.dwg



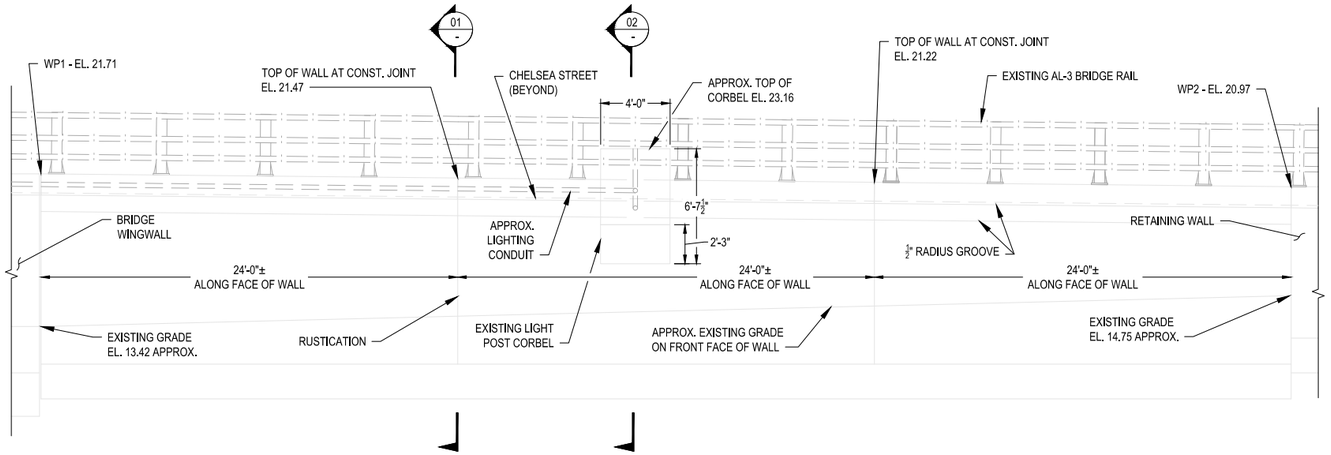
EXISTING RETAINING WALL PLAN

SCALE: ¼" = 1'-0"



EXISTING RETAINING WALL 01 / -

SCALE: ¼" = 1'-0"

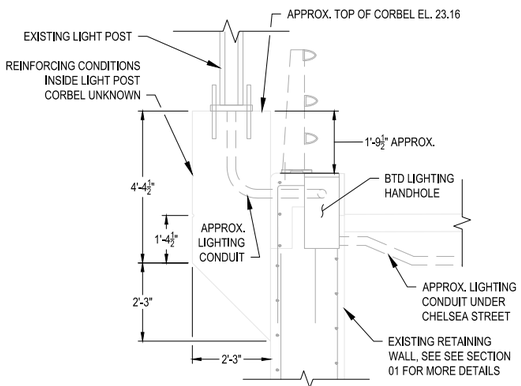


EXISTING RETAINING WALL WEST ELEVATION

SCALE: ¼" = 1'-0"

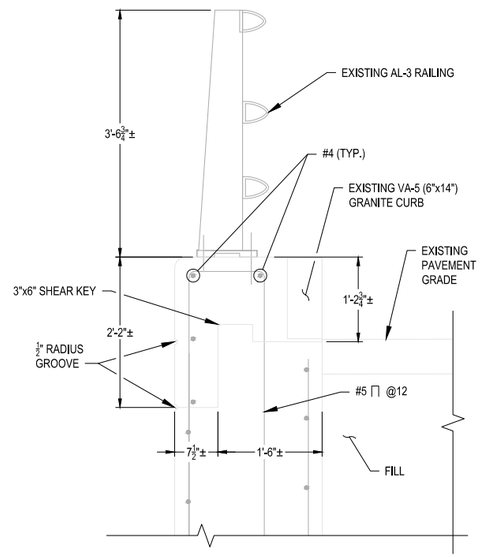
NOTES:

1. FOR FURTHER INFORMATION ON WORK POINTS (WP) SEE SHEET S-002
2. SEE GENERAL NOTE 2 ON SHEET S-001 FOR ORIGIN OF INFORMATION REGARDING EXISTING STRUCTURES SHOWN.
3. EXISTING DIMENSIONS ARE TAKEN FROM AS-BUILT PLANS OF BRIDGE B-16-384 AND SURVEY. ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO THE START OF WORK.
4. ALL EXISTING CONDUIT RUNS FOR LIGHT-POSTS ARE ASSUMED BASED ON CONVERSATIONS WITH BTD PERSONNEL. GENERAL AREA OF CONDUIT HAS BEEN DETERMINED, BUT EXACT ELEVATIONS ARE UNKNOWN. CONTRACTOR TO VERIFY ALL ACTUAL CONDUIT LOCATIONS PRIOR TO ANY WORK RELATING TO SAID CONDUIT.



EXISTING LIGHT POST CORBEL 02 / -

SCALE: ½" = 1'-0"



DETAIL A - EXISTING RAIL

SCALE: 1" = 1'-0"

massport
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

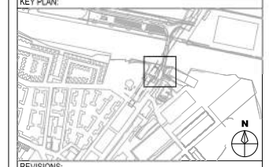
PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.
SIGNED
NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:



REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

SHEET TITLE:
M666_S003 - EXISTING RETAINING WALL CONDITIONS

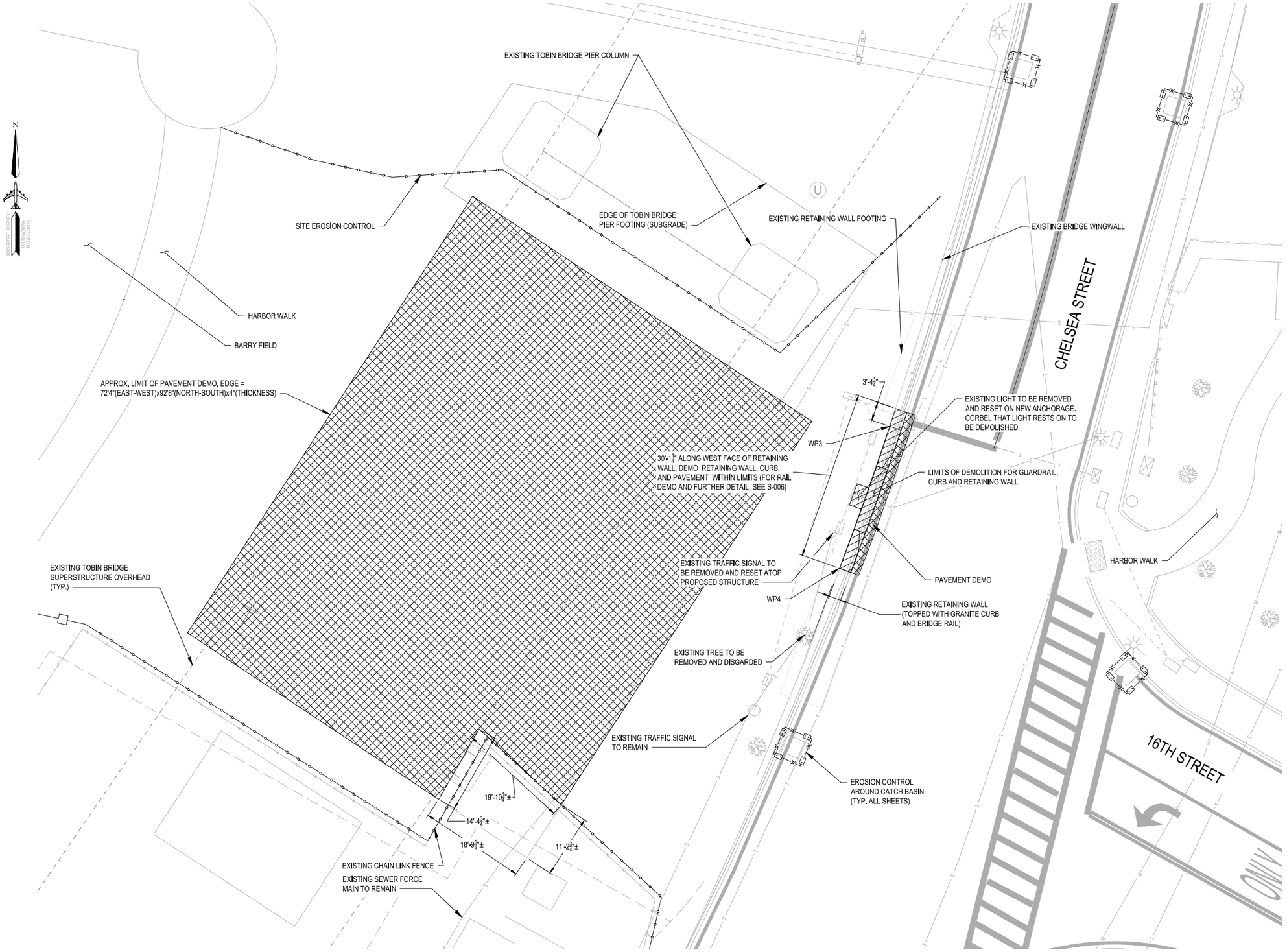
DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
BEF	PCM	RX

SCALE:	DATE:
AS NOTED	MAY 2021

DRAWING NAME: SHEET 14 OF 30

S-003



NOTES:

FOR FURTHER INFORMATION ON WORKING POINTS (WP) SEE SHEET S-002

DEMOLITION PLAN

SCALE: ⅛" = 1'-0"

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1

LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	9/15/21	ADDED BENT B-31 TO BASEPLAN	ML
2	11/28/22	RECORD DRAWINGS	

PRIMARY:

HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

SHEET TITLE:
M666_S004 - DEMOLITION PLAN

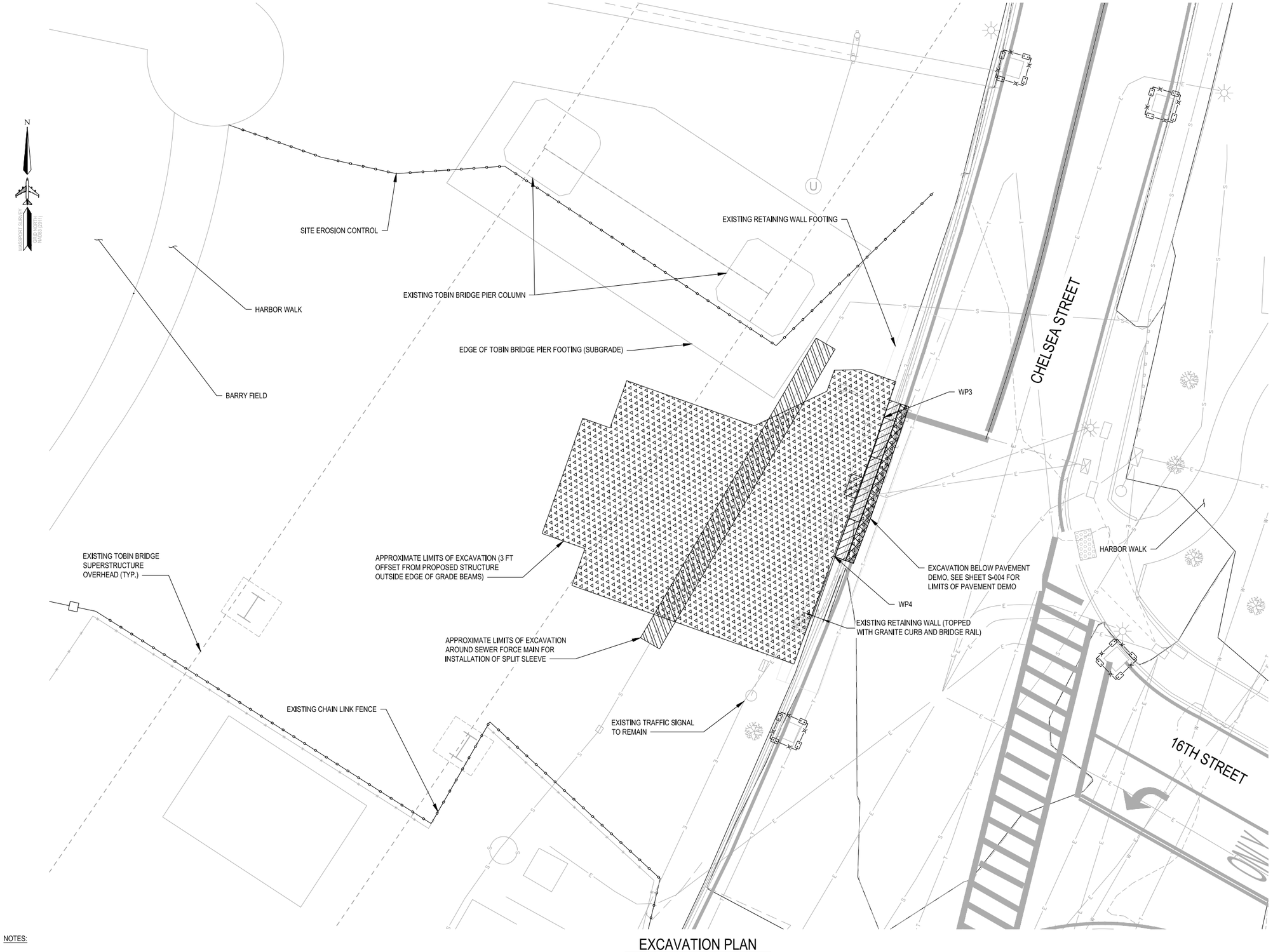
DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
BEF	PCM	RX

SCALE:	DATE:
AS NOTED	MAY 2021

DRAWING NAME: SHEET 15 OF 30

S-004



NOTES:

FOR FURTHER INFORMATION ON WORK POINTS (WP) SEE SHEET S-002

EXCAVATION PLAN

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

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1

LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	9/15/21	ADDED BENT B-31 TO BASEPLAN	ML
2	11/28/22	RECORD DRAWINGS	

PRIMARY:

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99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:

M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

SHEET TITLE:
M666_S005 - EXCAVATION PLAN

DISCIPLINE:
STRUCTURES

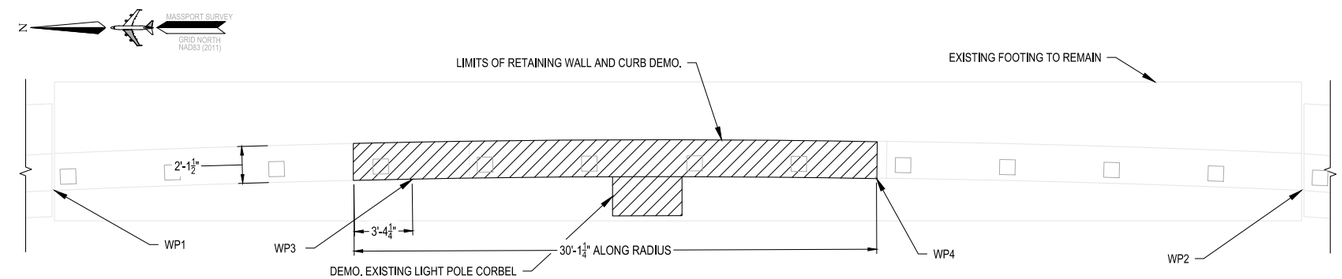
DRAWN BY:	CHECKED BY:	APPROVED BY:
BEF	PCM	RX

SCALE: AS NOTED

DATE: MAY 2021

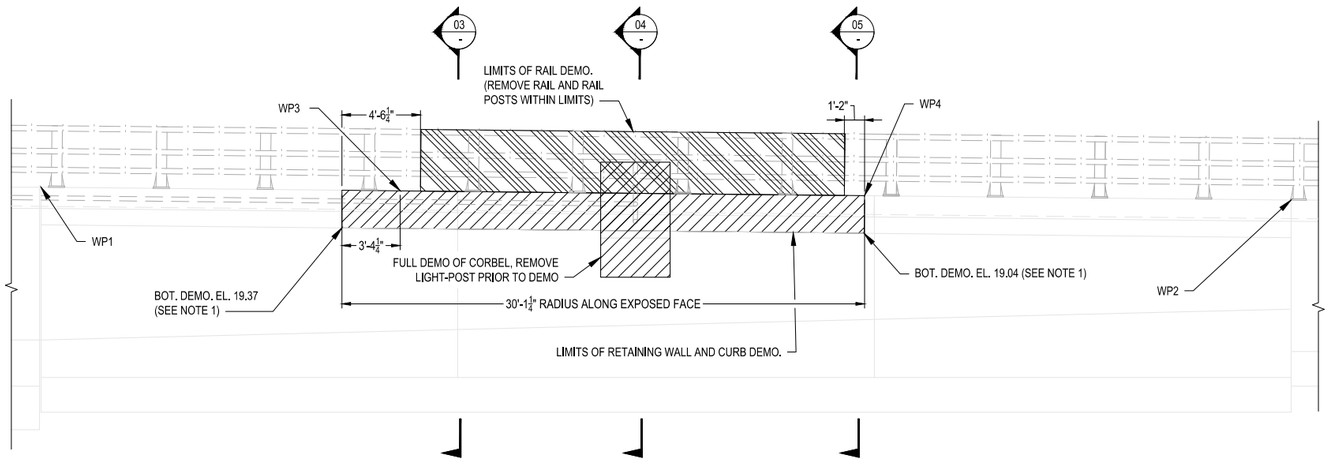
DRAWING NAME: S-005

SHEET 16 OF 30



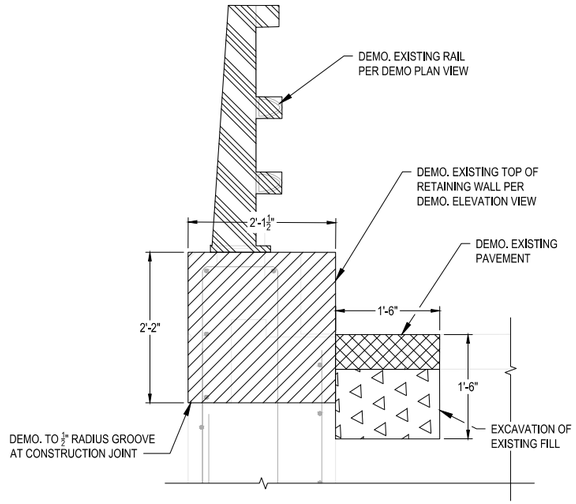
RETAINING WALL DEMOLITION PLAN

SCALE: ¼" = 1'-0"



RETAINING WALL DEMOLITION ELEVATION

SCALE: ¼" = 1'-0"



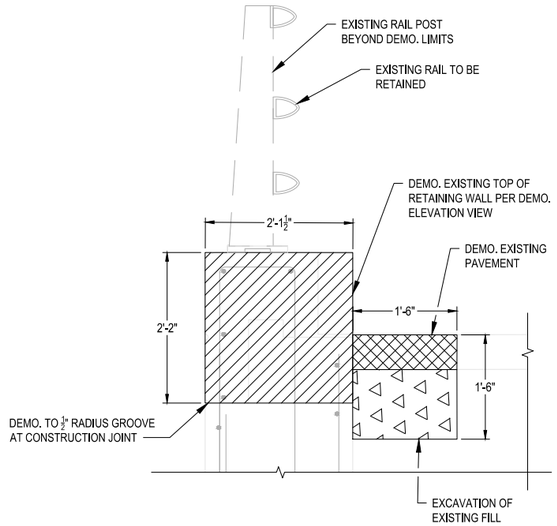
BRIDGE RAIL DEMOLITION

SCALE: 1" = 1'-0"

03
-

NOTE:

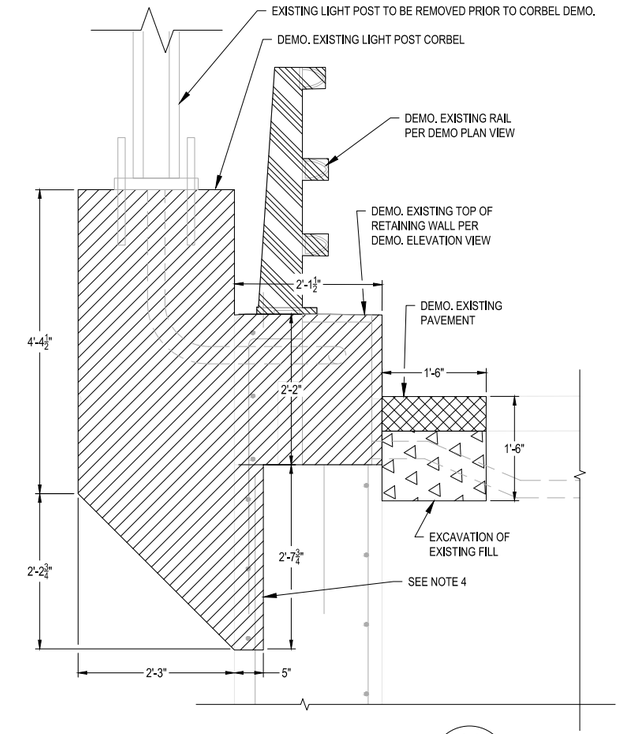
1. BOTTOM OF EXISTING RETAINING WALL DEMO. ELEVATION TO MATCH THE GROOVE ON THE EXPOSED FACE OF THE WALL.
2. THE EXISTING GRADE SHOWN ON THESE PLANS IS SCALED OFF AVAILABLE PLANS.
3. FOR FURTHER INFORMATION ON WORK POINTS (WP) SEE SHEET S-002
4. EXISTING REINFORCING CONDITIONS INSIDE CORBEL ARE UNKNOWN. THE POTENTIAL EXISTS THAT THERE IS NO REINFORCING CONNECTING THE CORBEL TO THE RETAINING WALL IN THE BOTTOM PART OF THE CORBEL. SHOULD THIS BE THE CASE, ADDITIONAL DEMO OF THE RETAINING WALL IS UNNECESSARY. IF REINFORCING BARS DO EXIST BETWEEN THE CORBEL AND RETAINING WALL TO REMAIN, DEMO. APPROX. 5" INTO EXISTING RETAINING WALL BEHIND CORBEL. EXISTING RETAINING WALL REINFORCING TO REMAIN, CORBEL REINFORCING TO BE CUT AT DEMO LIMITS AND PATCH APPLIED.



RETAINING WALL AND CURB DEMOLITION

SCALE: 1" = 1'-0"

05
-



LIGHT POST CORBEL DEMOLITION

SCALE: 1" = 1'-0"

04
-

massport
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
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SIGNED
NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

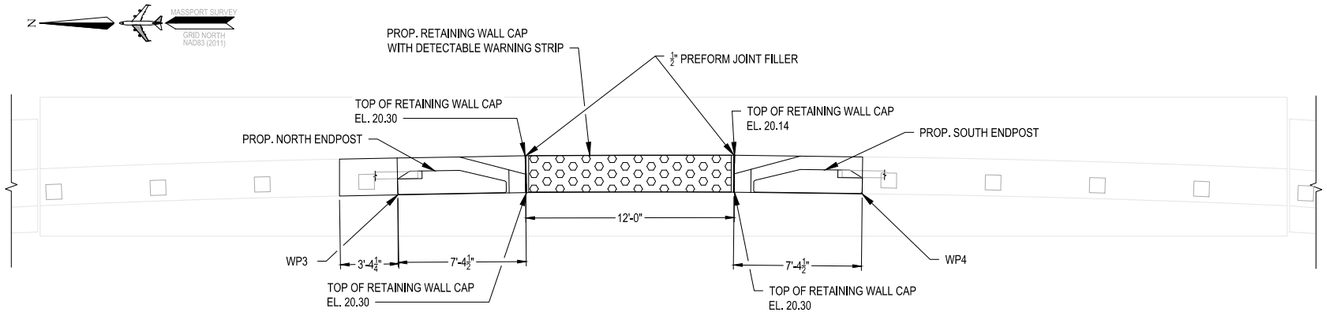
SHEET TITLE:
M666_S006 - DEMOLITION DETAILS

DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
BEF	PCM	RX

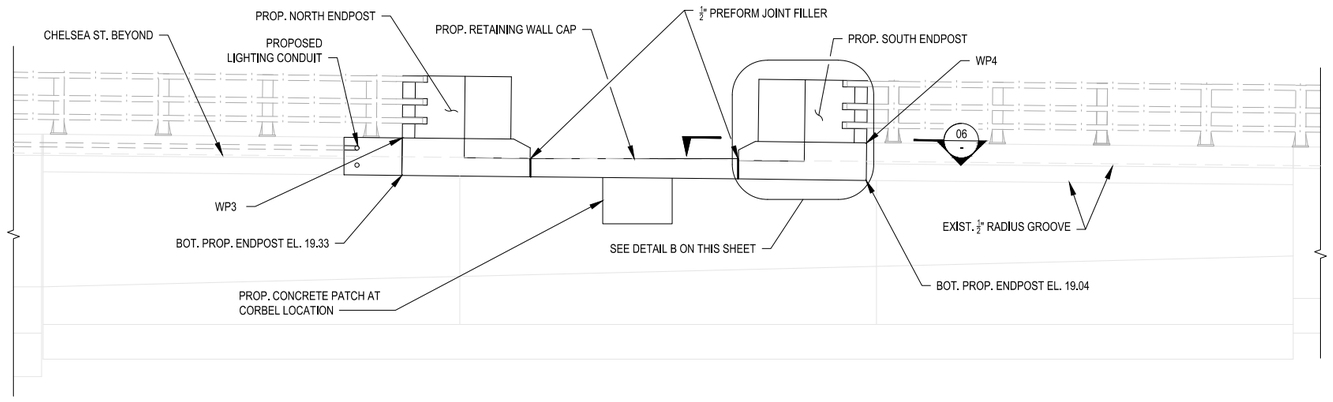
SCALE: AS NOTED
DATE: MAY 2021

DRAWING NAME: SHEET 17 OF 30
S-006



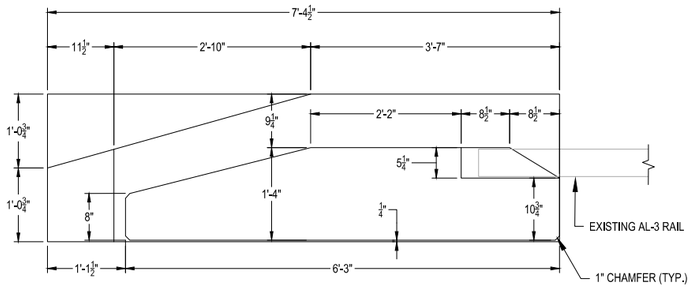
PROPOSED ENDPOST PLAN

SCALE: ¼" = 1'-0"



PROPOSED ENDPOST ELEVATION (LOOKING EAST)

SCALE: ¼" = 1'-0"



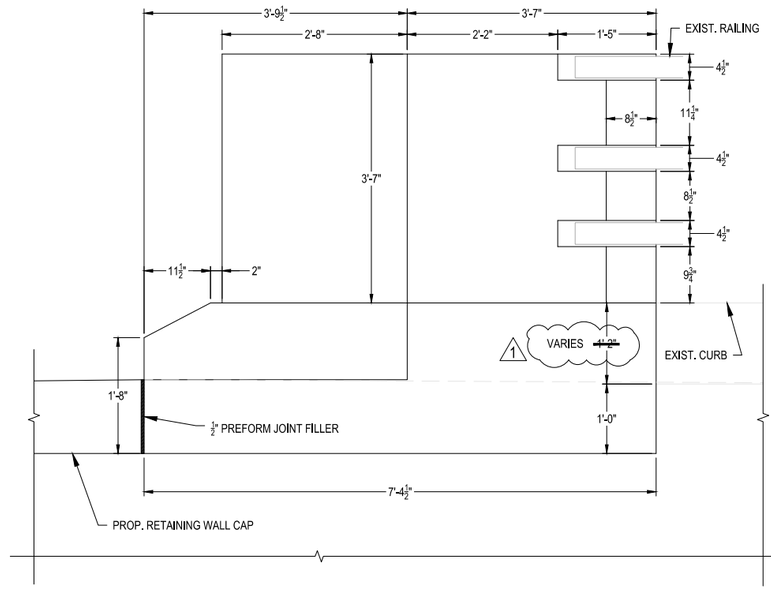
PROPOSED ENDPOST GEOMETRY

06
-

SCALE: 1" = 1'-0"

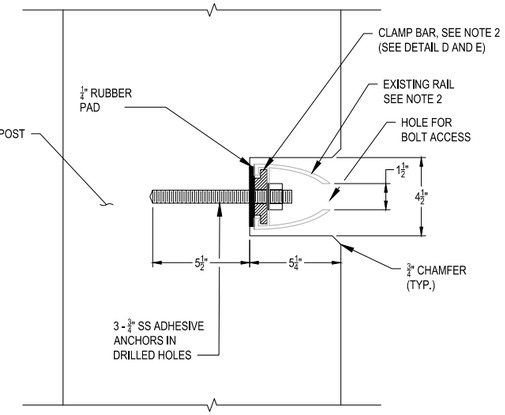
NOTES:

1. FOR FURTHER INFORMATION ON WORKING POINTS (WP) SEE SHEET S-002
2. BRIDGE RAIL CONSISTS OF 2 DIFFERENT SIZE ALUMINUM RAILS. THE TOP RAIL (REFERRED TO AS "HAND RAIL" IN RECORD PLANS) IS SLIGHTLY SMALLER THAN THE MIDDLE AND BOTTOM RAIL. DETAIL D IS THE CLAMP BAR SIZED FOR THE MIDDLE AND BOTTOM RAILS, AND DETAIL E IS THE CLAMP BAR SIZED FOR THE TOP RAIL



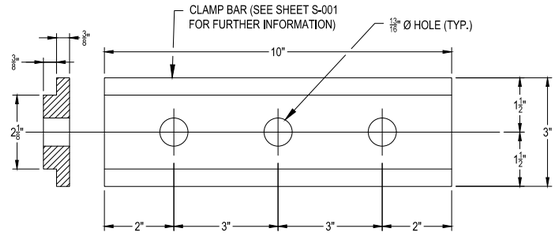
DETAIL B - PROPOSED ENDPOST GEOMETRY

SCALE: 1" = 1'-0"



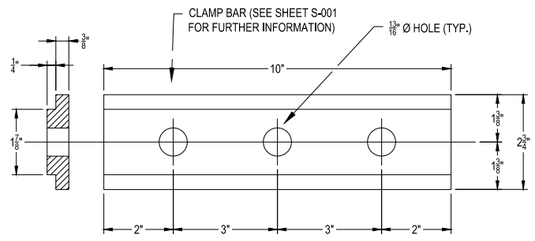
DETAIL C - CLAMP BAR AND ANCHORAGE FOR RAIL CONNECTION

SCALE: 3" = 1'-0"



DETAIL D - CLAMP BAR FOR BOTTOM AND MIDDLE RAILS

SCALE: 6" = 1'-0"



DETAIL E - CLAMP BAR FOR TOP RAIL

SCALE: 6" = 1'-0"

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1

LOCATION CODE:

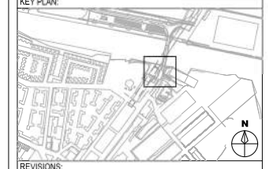
PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:



REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:

HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:

M666-C1
CHARLESTOWN
COMMUNITY PATH IMPROVEMENTS
BARRY FIELD CONNECTION
(COMPONENT 1)

SHEET TITLE:
M666_S007 - PROPOSED ENDPOST DETAILS (1 OF 2)

DISCIPLINE:
STRUCTURES

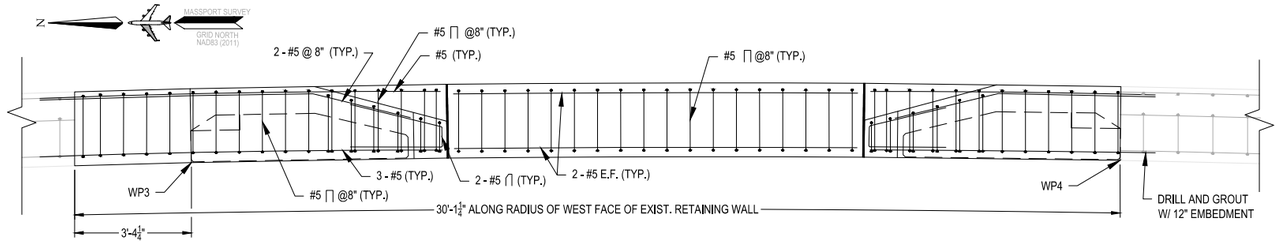
DRAWN BY:	CHECKED BY:	APPROVED BY:
BEF	PCM	RX

SCALE: AS NOTED

DATE: MAY 2021

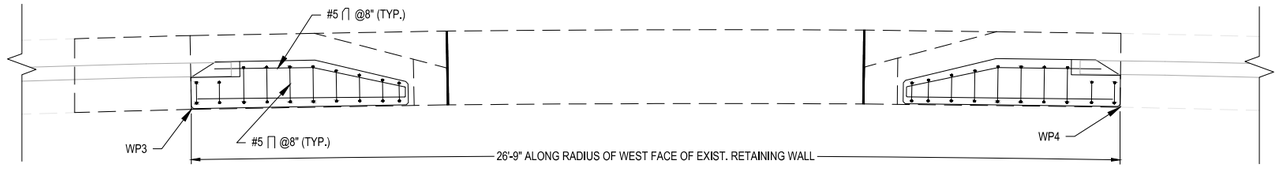
DRAWING NAME: SHEET 18 OF 30

S-007



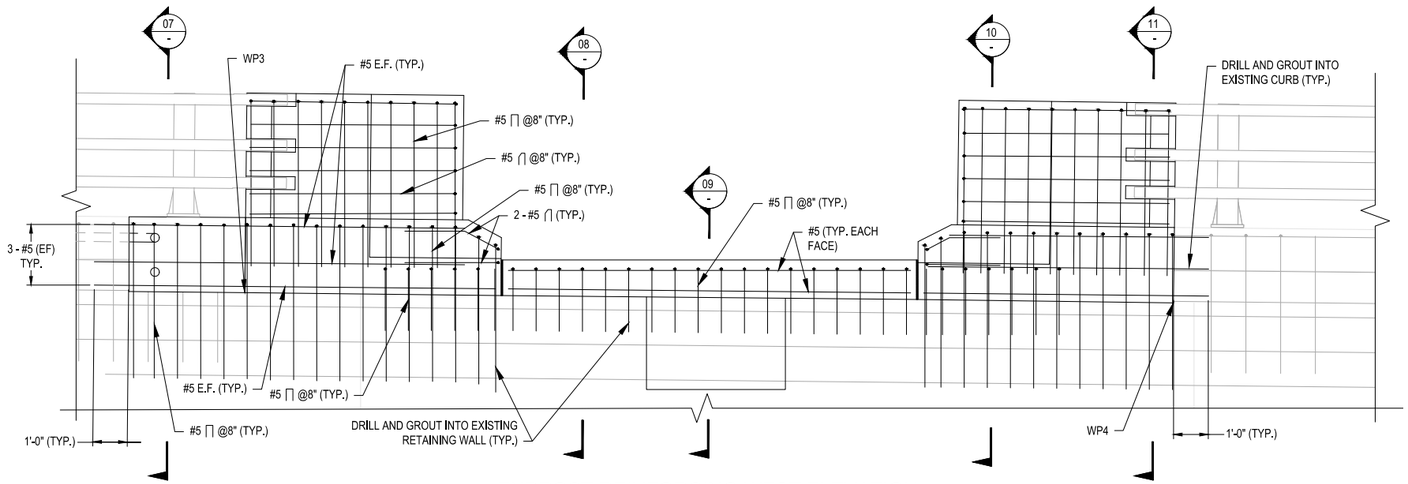
RETAINING WALL CAP AND CURB REINFORCING PLAN

SCALE: ½" = 1'-0"



ENDPOST REINFORCING PLAN

SCALE: ½" = 1'-0"

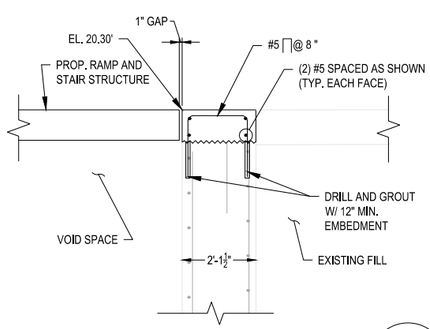


ENDPOST REINFORCING WEST ELEVATION

SCALE: ½" = 1'-0"

NOTES:

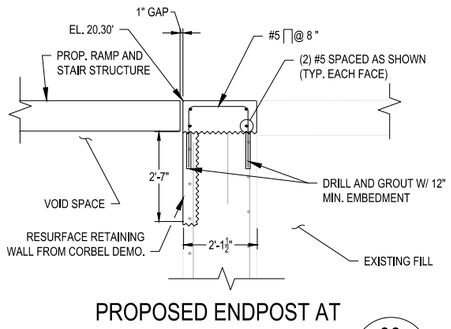
FOR FURTHER INFORMATION ON WORKING POINTS (WP) SEE SHEET S-002



PROPOSED RETAINING WALL CAP

08 -

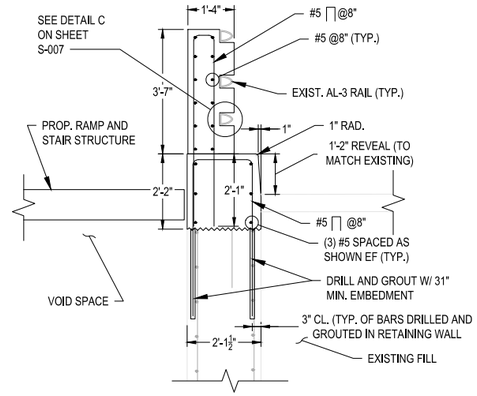
SCALE: ½" = 1'-0"



PROPOSED ENDPOST AT DEMOLISHED CORBEL

09 -

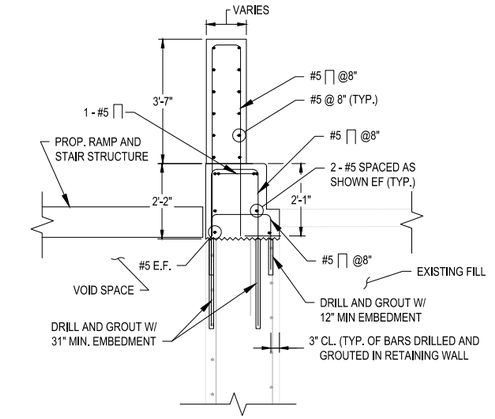
SCALE: ½" = 1'-0"



PROPOSED ENDPOST AT RAILING CONNECTION

11 -

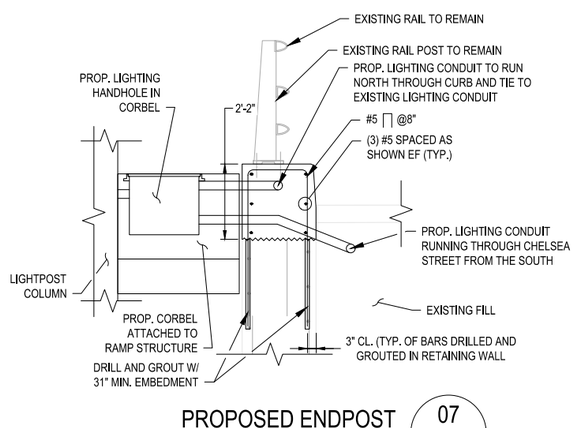
SCALE: ½" = 1'-0"



PROPOSED ENDPOST

10 -

SCALE: ½" = 1'-0"



PROPOSED ENDPOST

07 -

SCALE: ½" = 1'-0"

massport
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

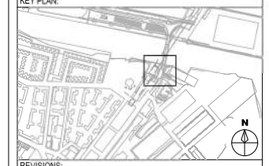
PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:



REVISIONS:

REV NO.	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN
COMMUNITY PATH IMPROVEMENTS
BARRY FIELD CONNECTION
(COMPONENT 1)

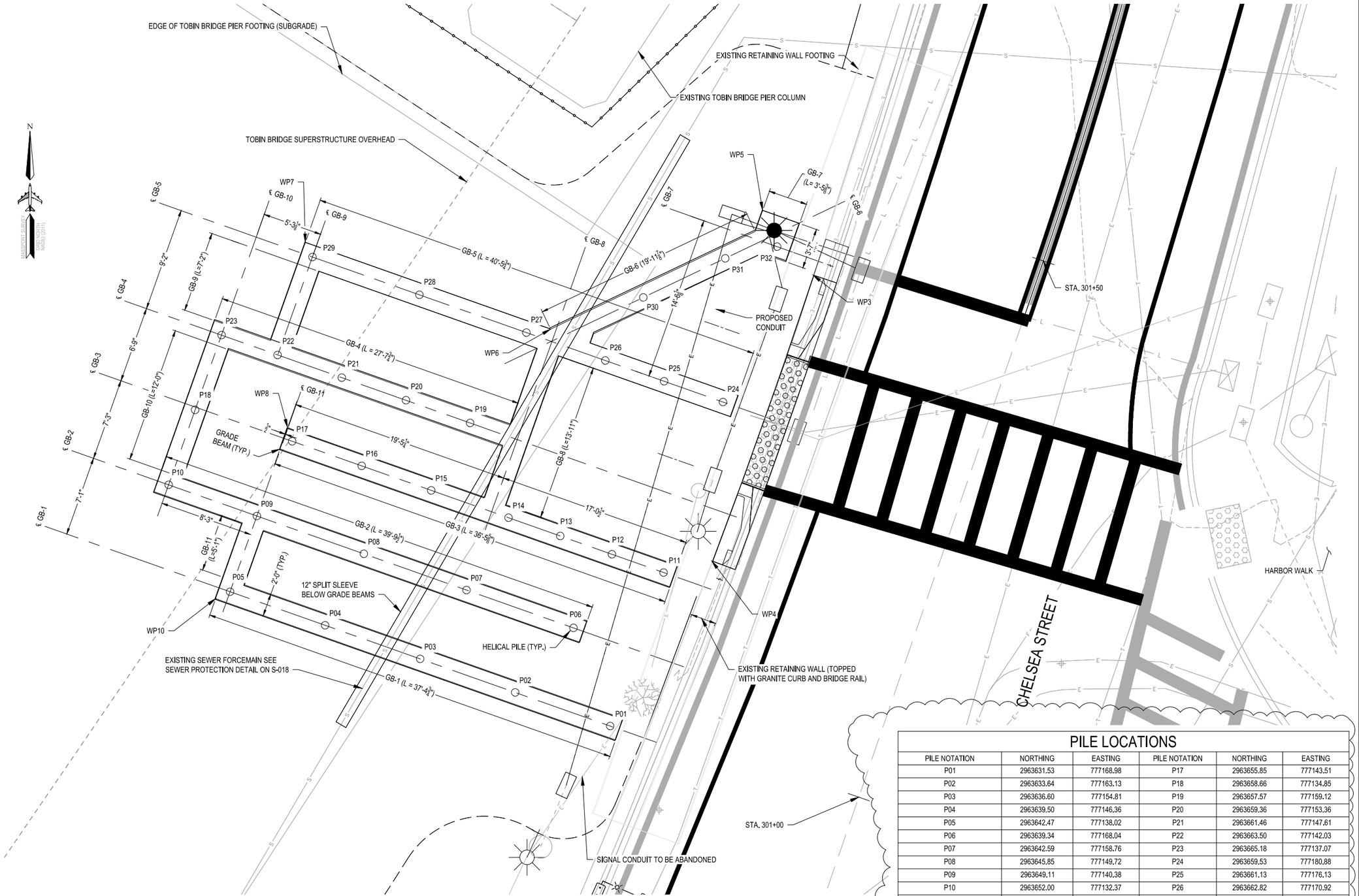
SHEET TITLE:
M666_S008 - PROPOSED ENDPOST DETAILS (2 OF 2)

DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
BEF	PCM	RX

SCALE:	DATE:
AS NOTED	MAY 2021

DRAWING NAME: S-008
SHEET 19 OF 30



FOUNDATION PLAN

SCALE: 1" = 1'-0"

PILE LOCATIONS

PILE NOTATION	NORTHING	EASTING	PILE NOTATION	NORTHING	EASTING
P01	2963631.53	777168.98	P17	2963655.85	777143.51
P02	2963633.64	777163.13	P18	2963658.66	777134.85
P03	2963636.60	777154.81	P19	2963657.57	777159.12
P04	2963639.50	777146.36	P20	2963659.36	777153.36
P05	2963642.47	777138.02	P21	2963661.46	777147.61
P06	2963639.34	777168.04	P22	2963663.50	777142.03
P07	2963642.59	777158.76	P23	2963665.18	777137.07
P08	2963645.85	777149.72	P24	2963659.53	777180.88
P09	2963649.11	777140.38	P25	2963661.13	777176.13
P10	2963652.00	777132.37	P26	2963662.82	777170.92
P11	2963643.94	777176.10	P27	2963665.01	777164.08
P12	2963646.17	777170.08	P28	2963668.56	777154.59
P13	2963647.65	777166.26	P29	2963672.02	777145.18
P14	2963649.00	777162.46	P30	2963668.58	777174.40
P15	2963651.65	777155.65	P31	2963671.87	777181.17
P16	2963653.66	777149.64	P32	2963672.90	777186.21

NOTES:

FOR FURTHER INFORMATION ON WORK POINTS (WP) SEE SHEET S-002

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.
SIGNED
NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.	DATE:	DESCRIPTION:	BY:
1	11/04/21	DIMENSION CHANGES	BEF
2	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

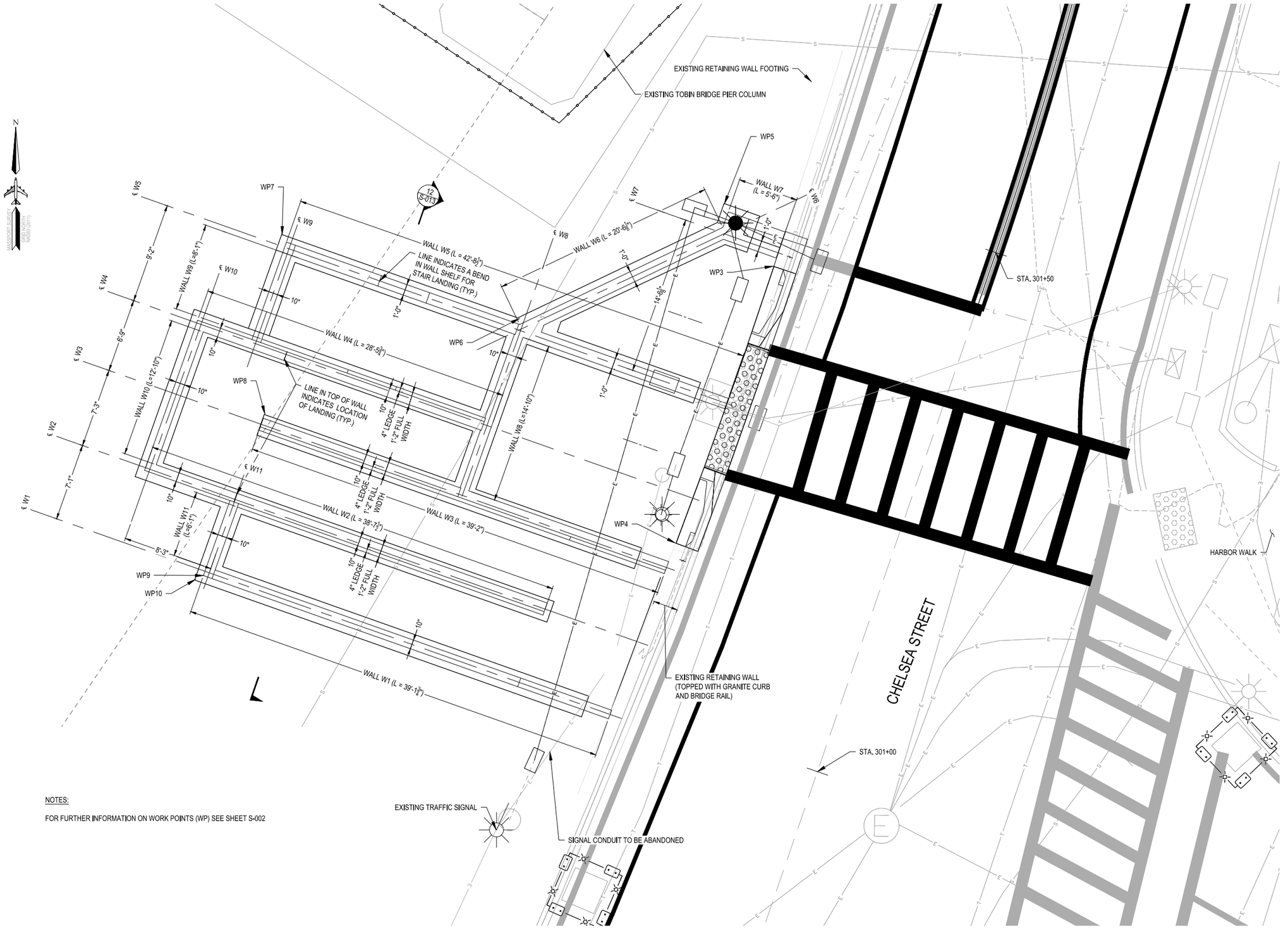
SHEET TITLE:
M666_S009 - PROPOSED FOUNDATION PLAN

DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
DD	PCM	RX

SCALE: AS NOTED
DATE: MAY 2021

DRAWING NAME: S-009
SHEET 20 OF 30



NOTES:

FOR FURTHER INFORMATION ON WORK POINTS (WP) SEE SHEET S-002

WALL LAYOUT PLAN

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

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

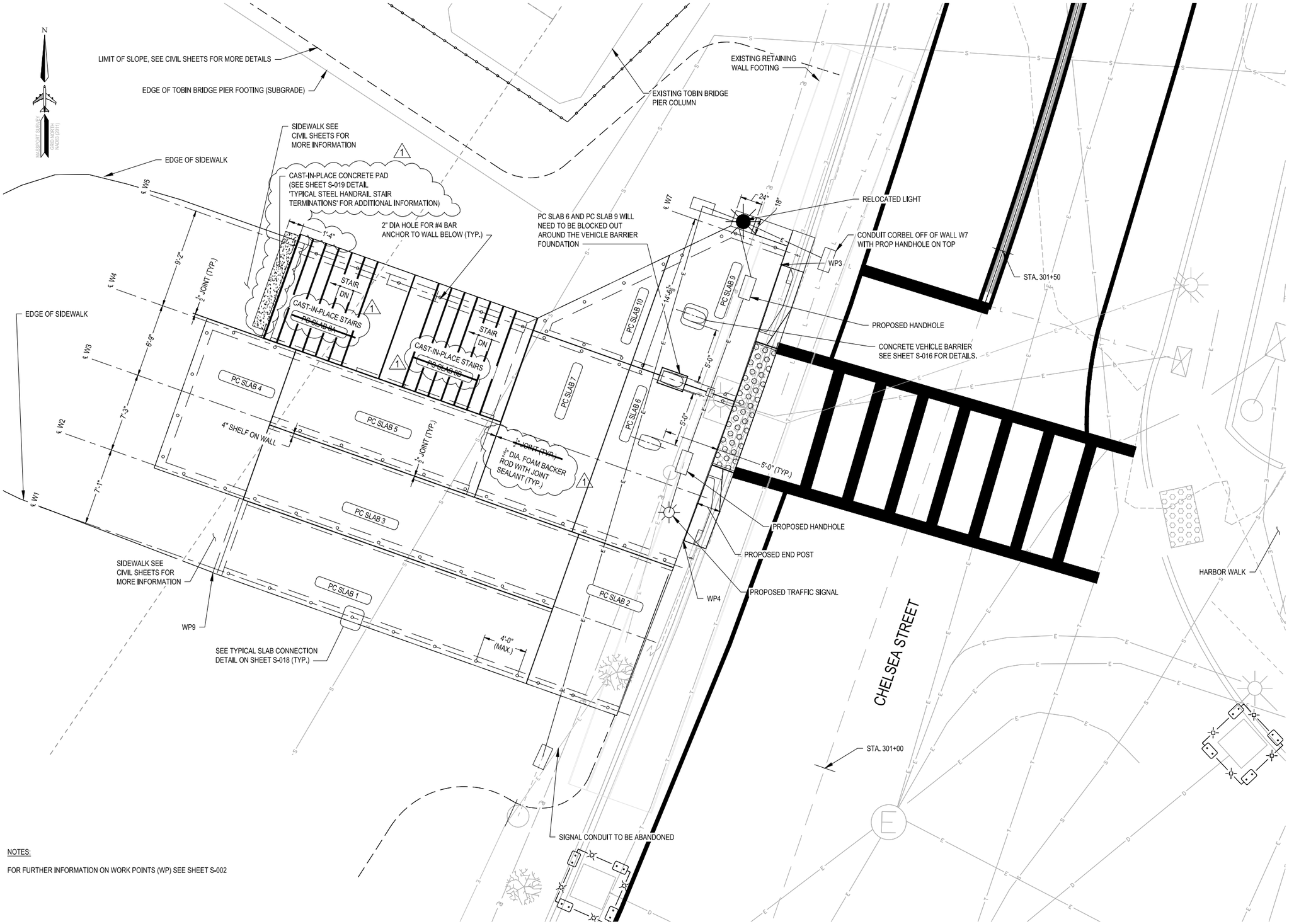
SHEET TITLE:
M666_S010 - PROPOSED WALL LAYOUT FOR RAMP

DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
DD	PCM	RX

SCALE: AS NOTED
DATE: MAY 2021

DRAWING NAME: S-010
SHEET 21 OF 30



NOTES:

FOR FURTHER INFORMATION ON WORK POINTS (WP) SEE SHEET S-002

PRECAST SLAB LAYOUT PLAN

SCALE: ¾" = 1'-0"

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

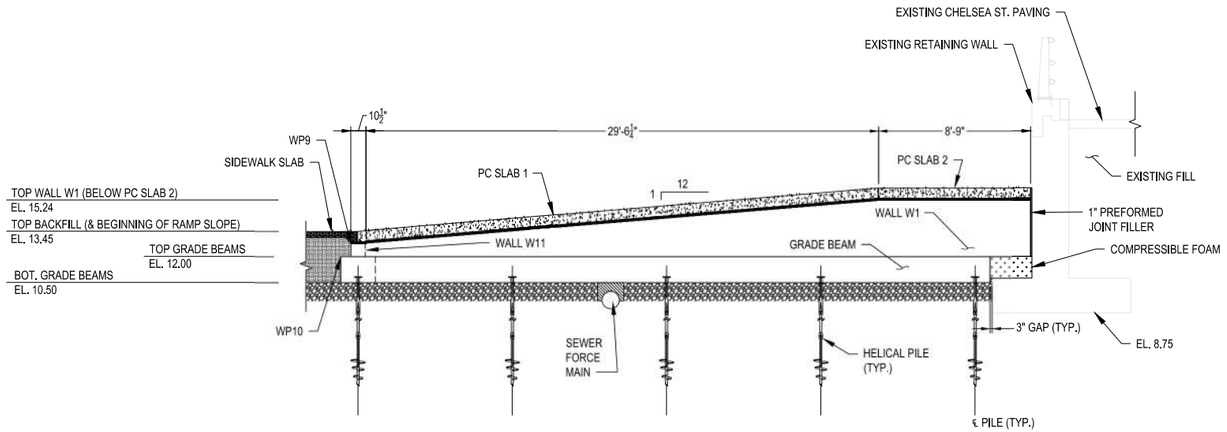
SHEET TITLE:
M666_S011 - PROPOSED PRECAST SLAB LAYOUT

DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
DD	PCM	RX

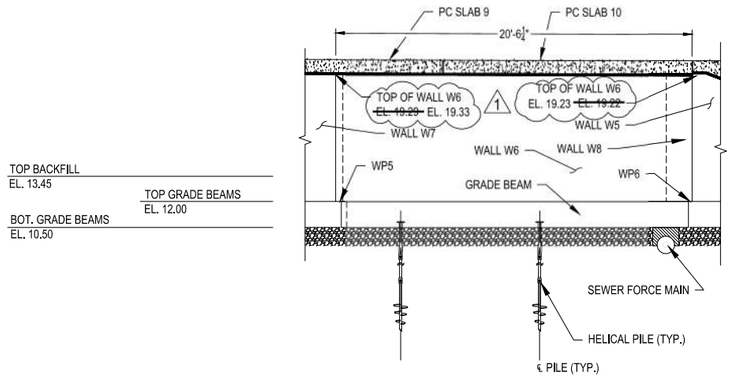
SCALE: AS NOTED
DATE: MAY 2021

DRAWING NAME: SHEET 22 OF 30
S-011



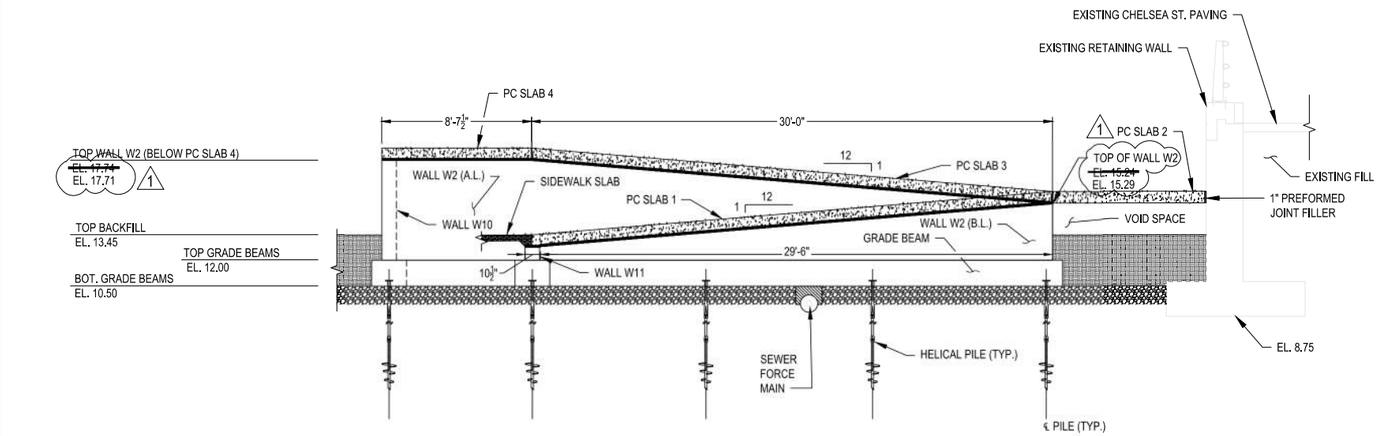
WALL W1 - SOUTH ELEVATOIN

SCALE: $\frac{1}{4}$" = 1'-0"



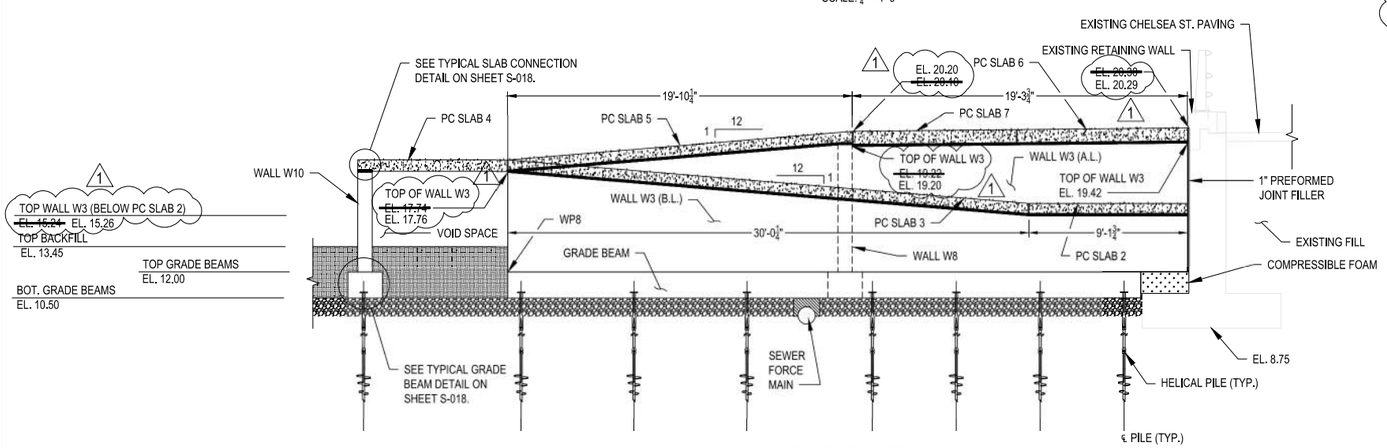
WALL W6 - SOUTH-WEST ELEVATION

SCALE: $\frac{1}{4}$" = 1'-0"



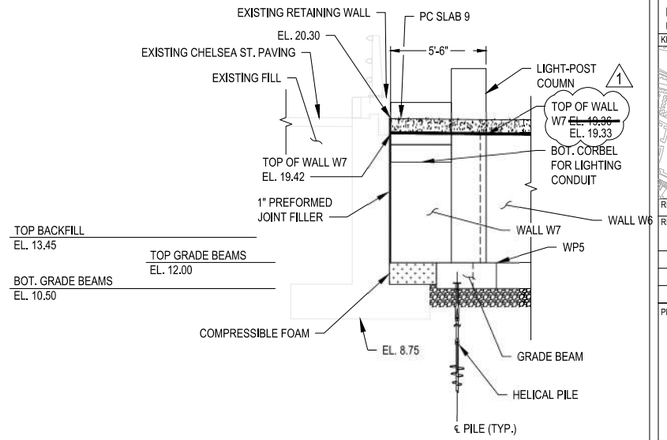
WALL W2 - SOUTH ELEVATION

SCALE: $\frac{1}{4}$" = 1'-0"



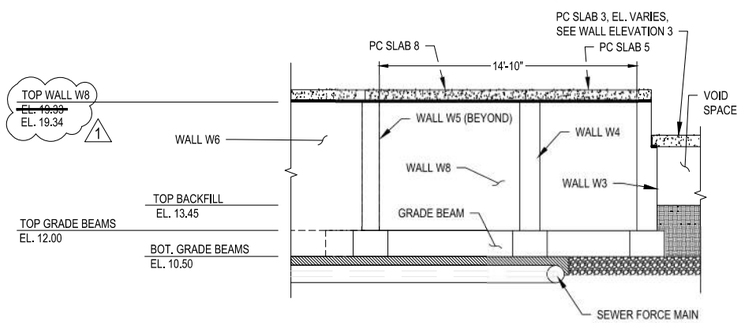
WALL W3 - SOUTH ELEVATION

SCALE: $\frac{1}{4}$" = 1'-0"



WALL W7 - NORTH ELEVATION

SCALE: $\frac{1}{4}$" = 1'-0"



WALL W8 - WEST ELEVATION

SCALE: $\frac{1}{4}$" = 1'-0"

NOTES:

1. TOP OF WALL SLOPES SHALL MATCH TOP OF PRECAST SLAB SLOPES.
2. FOR PILE LOCATIONS, SEE SHEET S-009.
3. TOP OF EXISTING RETAINING WALL VARIES, SEE ENDPOST SHEETS S-003 & S-007 FOR ELEVATIONS.
4. SLAB THICKNESS IS AS FOLLOWS:
   - 4.1. PC SLAB 1-5 = 8"
   - 4.2. PC SLAB 6, 7, 9, 10 = 10"
   - 4.3. PC SLAB 8A & 8B (STAIR SLABS) = 8"
5. PRECAST SLABS TO SIT ATOP ½" GROUT PAD. FOR TOP OF SLAB ELEVATIONS, ADD THICKNESS OF SLAB AND ½" (FOR GROUT) TO WALL ELEVATIONS GIVEN.
6. FOR MORE INFORMATION REGARDING WORK POINTS, SEE SHEET S-002.
7. DIMENSIONS ON ELEVATIONS DRAWN TO GRADE CHANGES ON WALLS.
8. THERE IS A ½" GAP (TO BE FILLED WITH PREFORMED FILLER) BETWEEN ALL ABUTTING PRECAST SLABS.
9. WALL THICKNESS VARIES WALL TO WALL. AREA OF WALL ABOVE SLAB LEDGE IS TYPICALLY 10" AND BELOW IS TYPICALLY 1'-2" (LEDGE HAS 4" WIDTH FOR SLAB BEARING). SEE WALL PLAN ON SHEET S-010 FOR FURTHER CALLOUTS OF WALL THICKNESS.

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

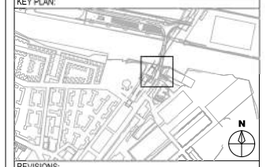
PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:



REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN
COMMUNITY PATH IMPROVEMENTS
BARRY FIELD CONNECTION
(COMPONENT 1)

SHEET TITLE:
M666_S012 - PROPOSED WALL ELEVATIONS 1

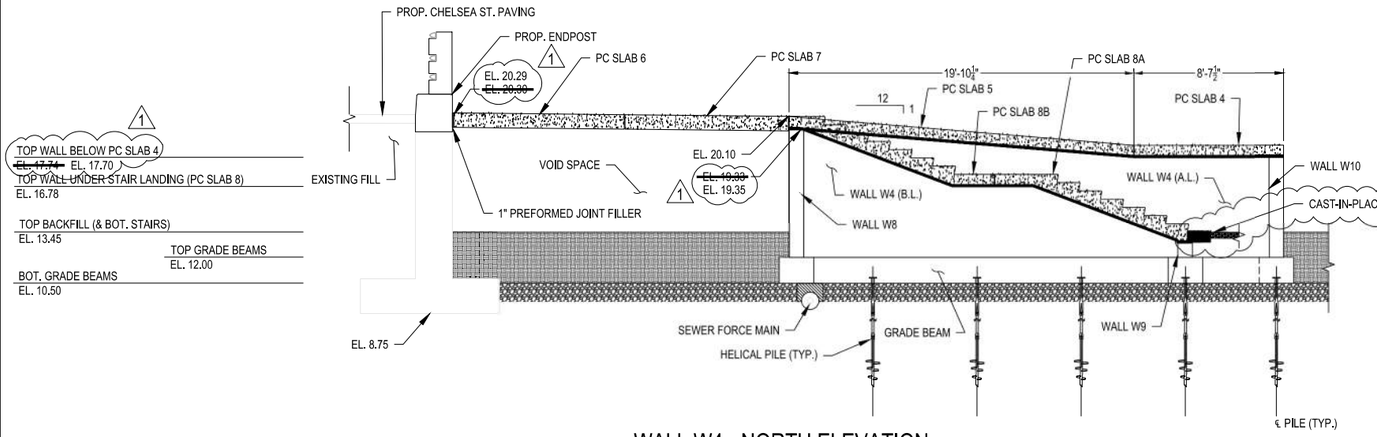
DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
BEF	PCM	RX

SCALE:	DATE:
AS NOTED	MAY 2021

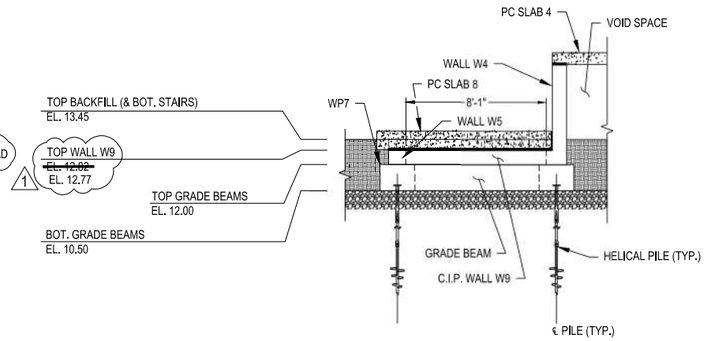
DRAWING NAME: SHEET 23 OF 30

S-012



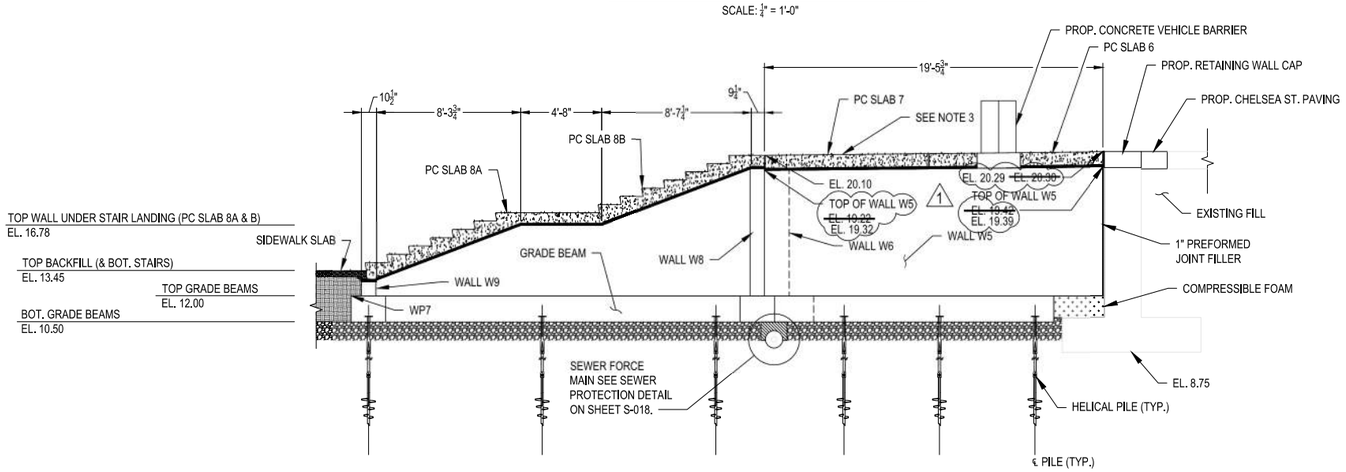
WALL W4 - NORTH ELEVATION

SCALE: $\frac{1}{4}$" = 1'-0"



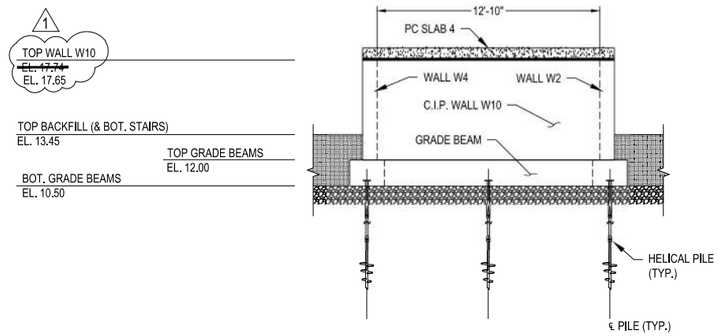
WALL W9 - WEST ELEVATION

SCALE: $\frac{1}{4}$" = 1'-0"



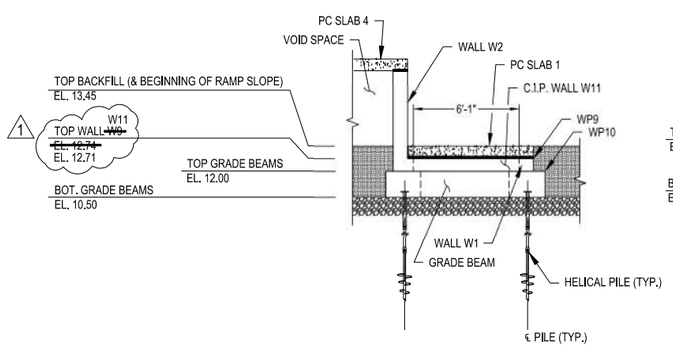
WALL W5 - SOUTH ELEVATION

SCALE: $\frac{1}{4}$" = 1'-0"



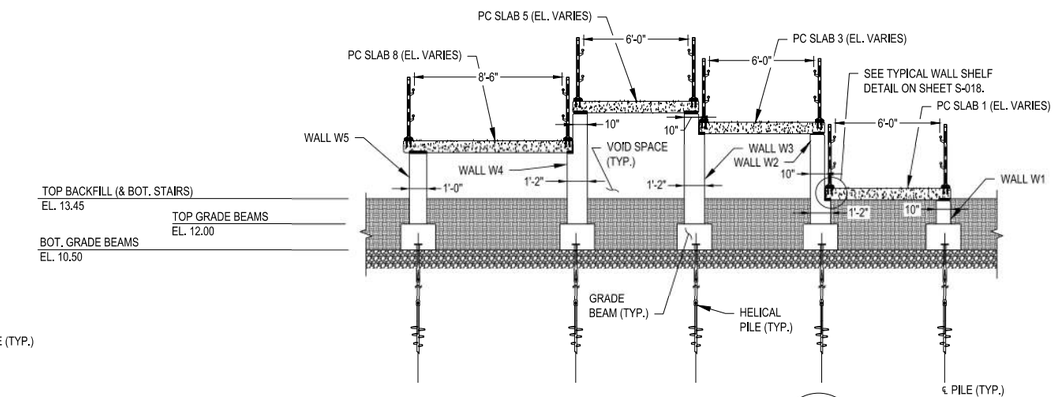
WALL W10 - WEST ELEVATION

SCALE: $\frac{1}{4}$" = 1'-0"



WALL W11 - WEST ELEVATION

SCALE: $\frac{1}{4}$" = 1'-0"



TYPICAL SECTION

SCALE: $\frac{1}{4}$" = 1'-0"

12
S-010

NOTES:

1. SEE APPLICABLE NOTES ON SHEET S-012.
2. FOR PC SLAB 8A & 8B (STAIR SLAB) DIMENSIONS AND DETAILS, SEE SHEET S-015.
3. A JOINT RUNS ALONG THE CL OF WALL W5 BETWEEN PC SLABS 7 AND 10, AND PC SLABS 6 AND 9. PC SLABS 10 AND 9 ARE NOT SHOWN FOR CLARITY.
4. FOR MORE INFORMATION REGARDING WORK POINTS, SEE SHEET S-002.

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

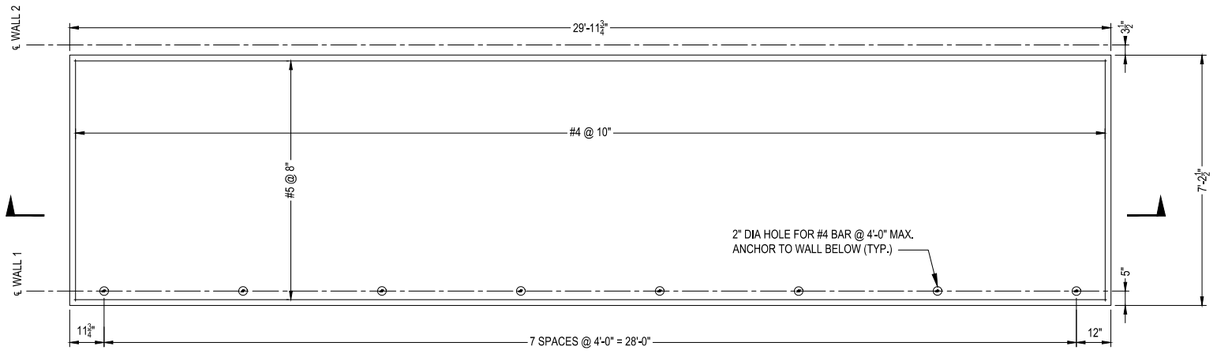
SHEET TITLE:
M666_S013 - PROPOSED WALL ELEVATIONS 2

DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
BEF	PCM	RX

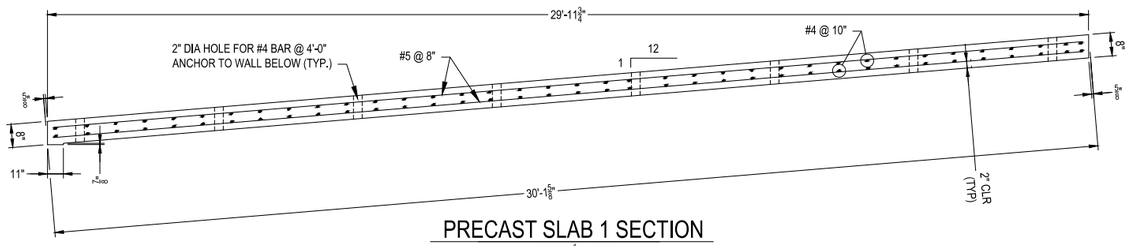
SCALE: AS NOTED
DATE: MAY 2021

DRAWING NAME: SHEET 24 OF 30
S-013



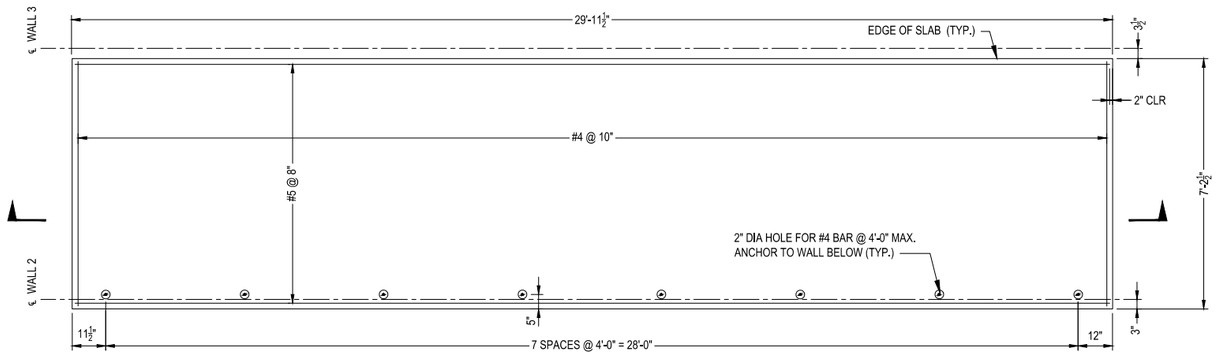
PRECAST SLAB 1 PLAN

SCALE: ½" = 1'-0"



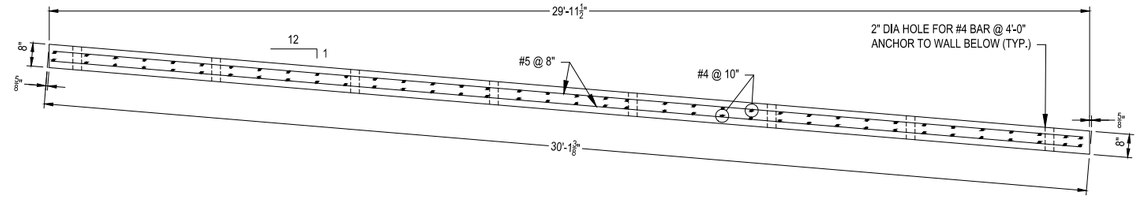
PRECAST SLAB 1 SECTION

SCALE: ½" = 1'-0"



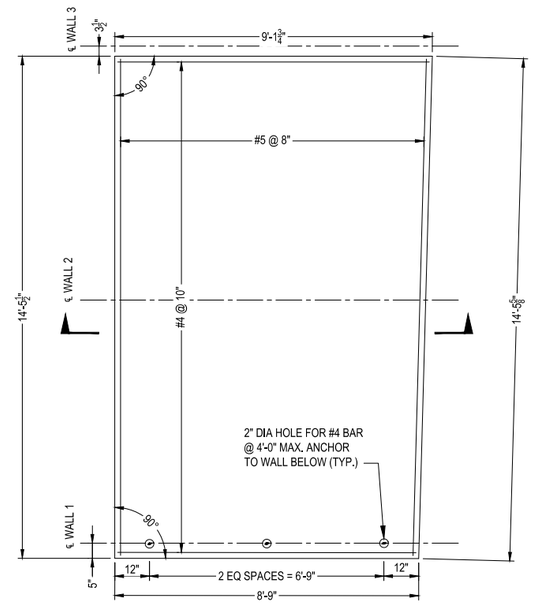
PRECAST SLAB 3 PLAN

SCALE: ½" = 1'-0"



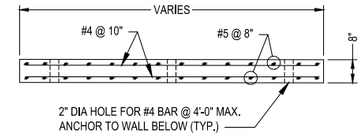
PRECAST SLAB 3 SECTION

SCALE: ½" = 1'-0"



PRECAST SLAB 2 PLAN

SCALE: ½" = 1'-0"



PRECAST SLAB 2 SECTION

SCALE: ½" = 1'-0"

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.:	LOCATION CODE:
M666 - C1	

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	10/19/21	DIMENSION ISSUES	BEF
2	11/28/22	RECORD DRAWINGS	

PRIMARY:

HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:

M666-C1
CHARLESTOWN
COMMUNITY PATH IMPROVEMENTS
BARRY FIELD CONNECTION
(COMPONENT 1)

SHEET TITLE:
M666_S014 - PROPOSED PRECAST SLAB DETAILS 1

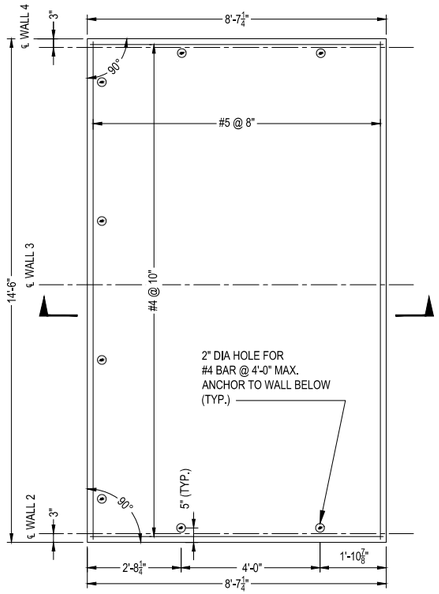
DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
DD	PCM	RX

SCALE:	DATE:
AS NOTED	MAY 2021

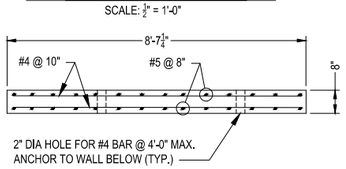
DRAWING NAME: SHEET 25 OF 30

S-014



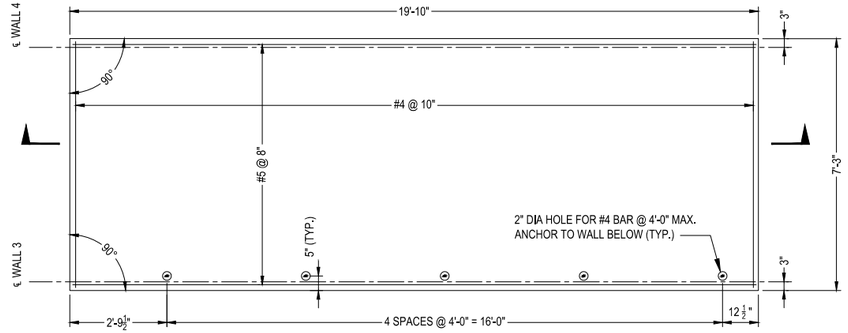
PRECAST SLAB 4 PLAN

SCALE: ½" = 1'-0"



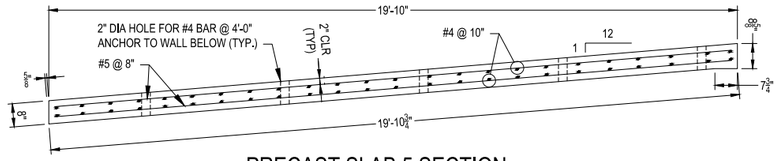
PRECAST SLAB 4 SECTION

SCALE: ½" = 1'-0"



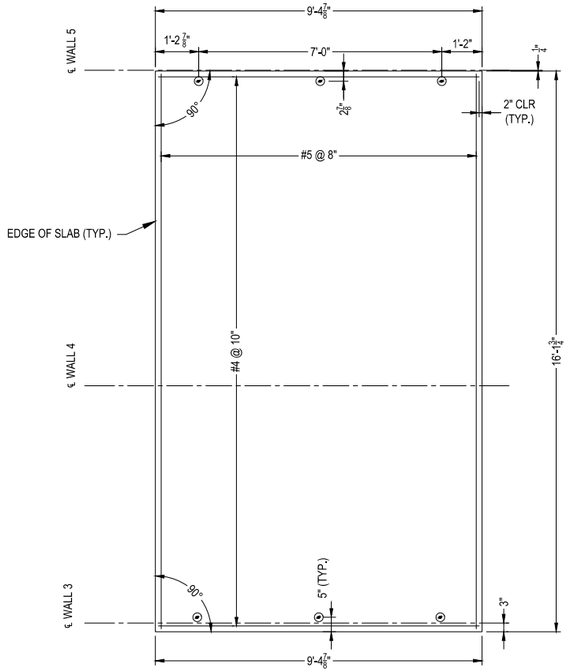
PRECAST SLAB 5 PLAN

SCALE: ½" = 1'-0"



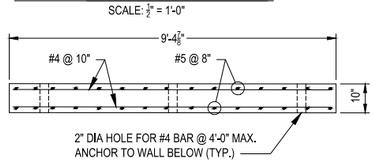
PRECAST SLAB 5 SECTION

SCALE: ½" = 1'-0"



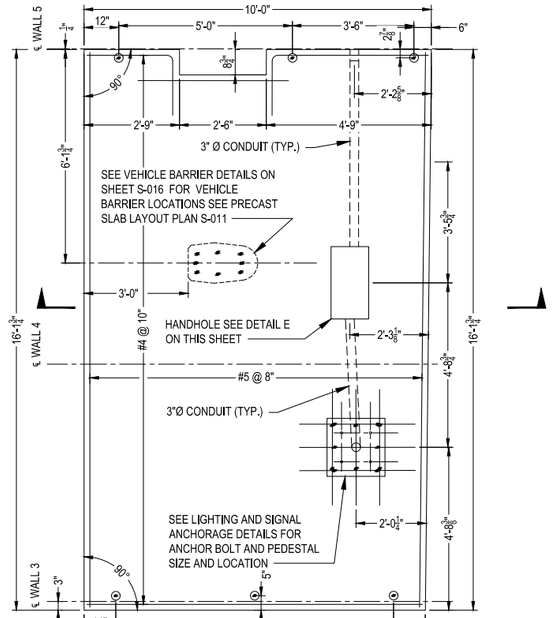
PRECAST SLAB 7 PLAN

SCALE: ½" = 1'-0"



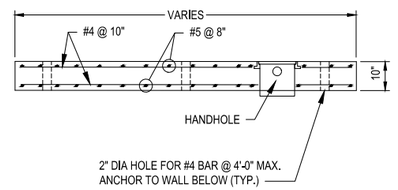
PRECAST SLAB 7 SECTION

SCALE: ½" = 1'-0"



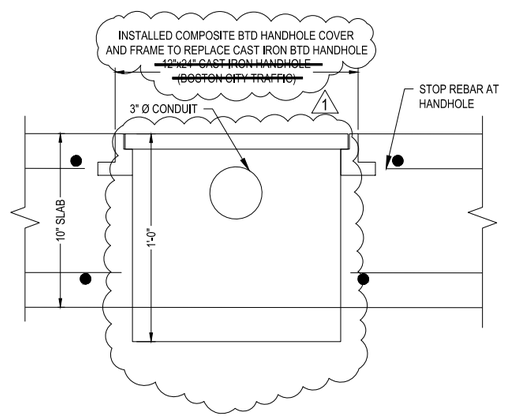
PRECAST SLAB 6 PLAN

SCALE: ½" = 1'-0"



PRECAST SLAB 6 SECTION

SCALE: ½" = 1'-0"



DETAIL E -TRAFFIC HANDHOLE

SCALE: 3" = 1'-0"

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

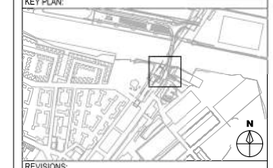
PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:



REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:

HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:

M666-C1
CHARLESTOWN
COMMUNITY PATH IMPROVEMENTS
BARRY FIELD CONNECTION
(COMPONENT 1)

SHEET TITLE:
M666_S015 - PROPOSED PRECAST SLAB DETAILS 2

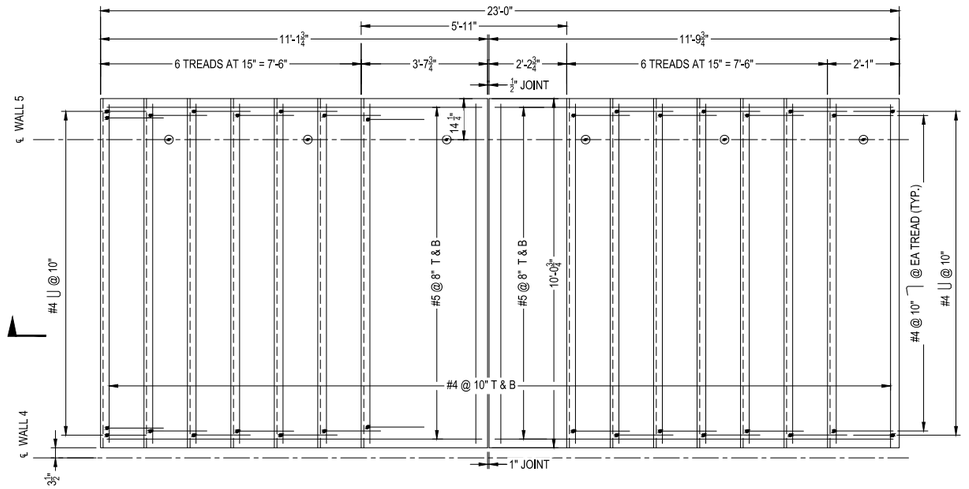
DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
DD	PCM	RX

SCALE:	DATE:
AS NOTED	MAY 2021

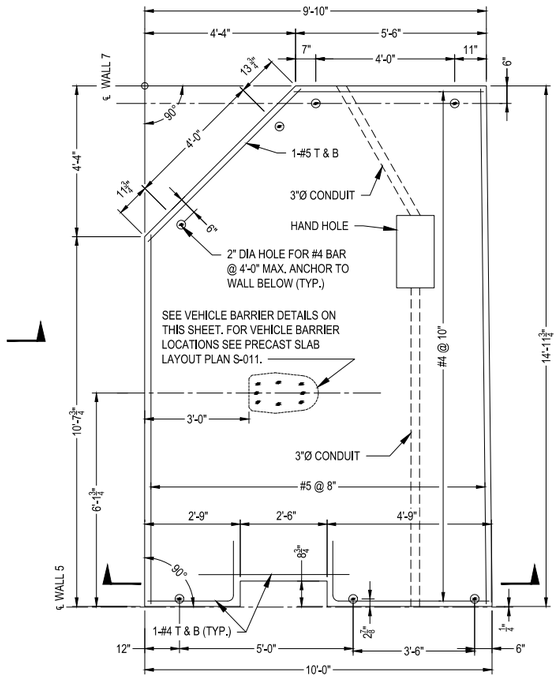
DRAWING NAME: SHEET 26 OF 30

S-015



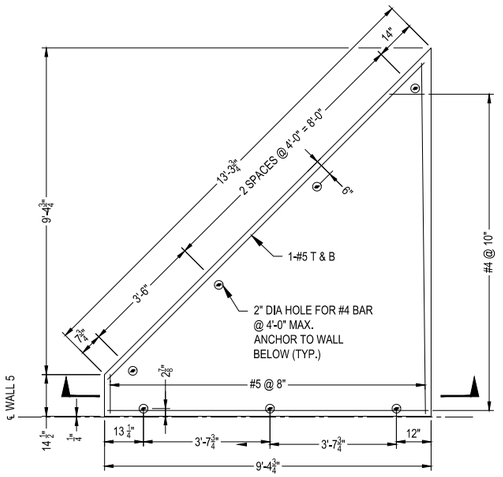
PRECAST STAIR 8A PLAN

SCALE: ½" = 1'-0"



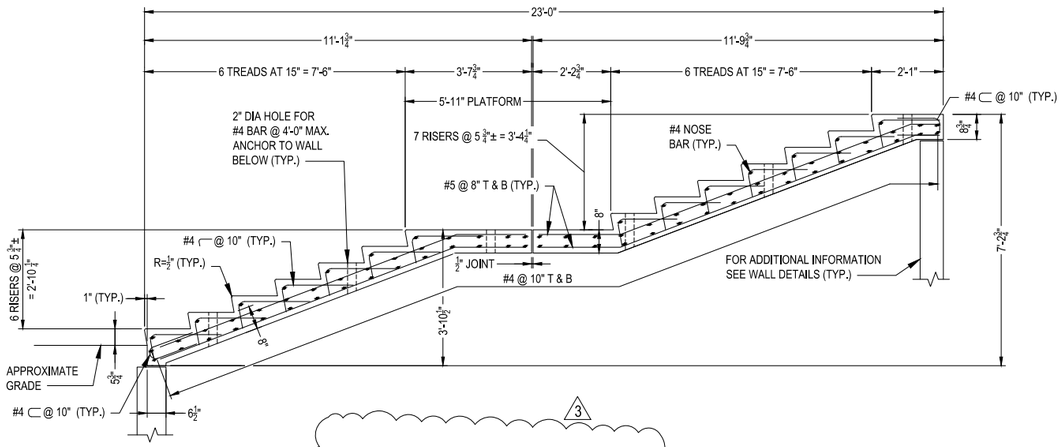
PRECAST STAIR 8B PLAN

SCALE: ½" = 1'-0"



PRECAST SLAB 10 PLAN

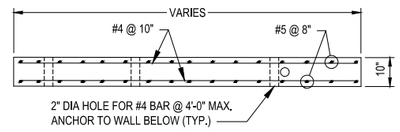
SCALE: ½" = 1'-0"



3

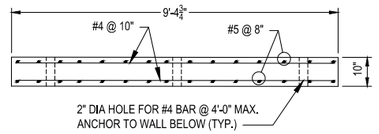
CAST-IN-PLACE STAIR SECTION

SCALE: ½" = 1'-0"



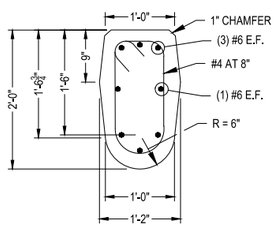
PRECAST SLAB 9 SECTION

SCALE: ½" = 1'-0"



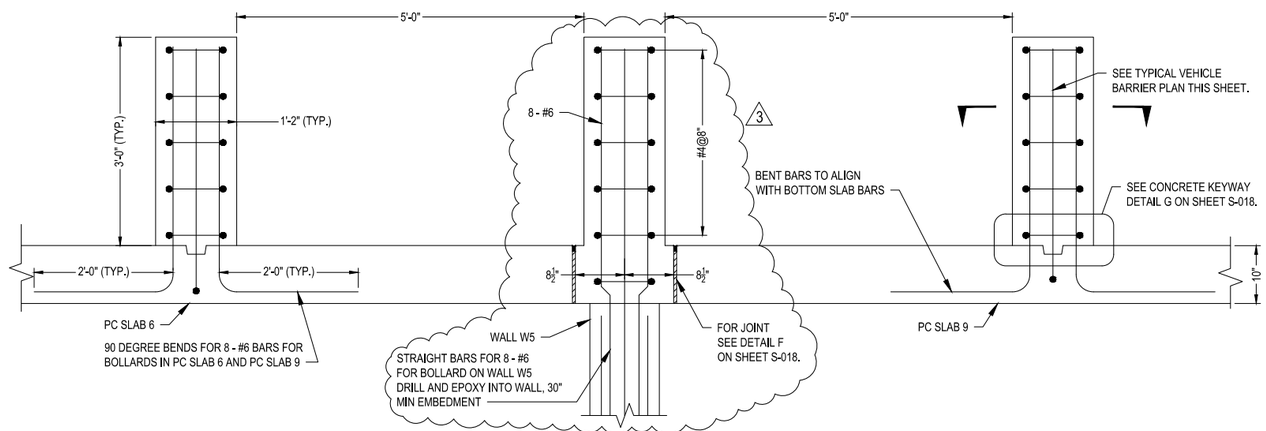
PRECAST SLAB 10 SECTION

SCALE: ½" = 1'-0"



TYPICAL VEHICLE BARRIER SECTION

SCALE: 1" = 1'-0"



TYPICAL VEHICLE BARRIER ELEVATION

SCALE: 1" = 1'-0"

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

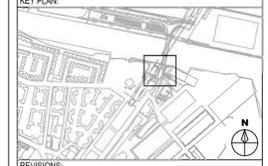
PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:



REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	8/12/21	SLAB 10 EMAIL 8/11/21	PCM
2	10/19/21	DIMENSION CHANGE	BEF
3	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN
COMMUNITY PATH IMPROVEMENTS
BARRY FIELD CONNECTION
(COMPONENT 1)

SHEET TITLE:
M666_S016 - PROPOSED PRECAST SLAB DETAILS 3

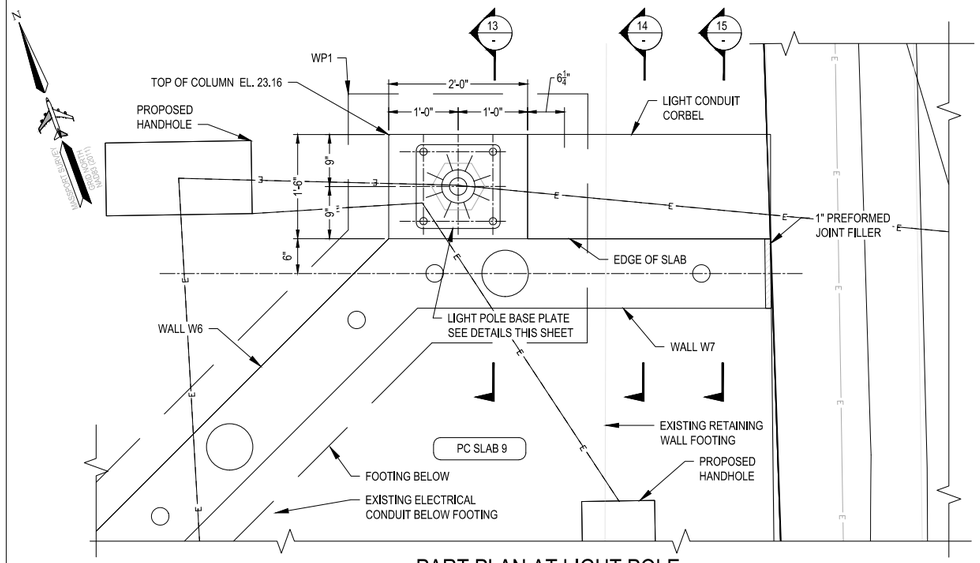
DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
DD	PCM	RX

SCALE:	DATE:
AS NOTED	MAY 2021

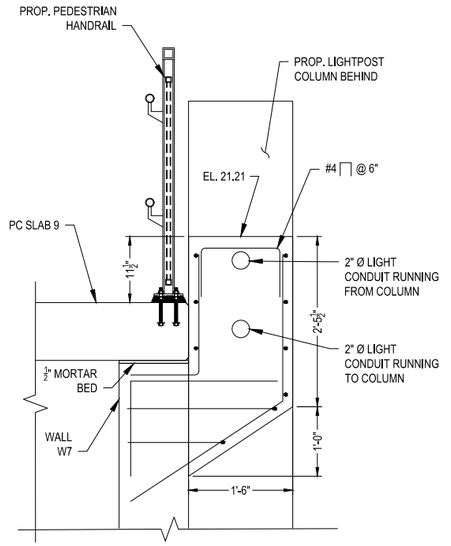
DRAWING NAME: SHEET 27 OF 30

S-016



PART PLAN AT LIGHT POLE

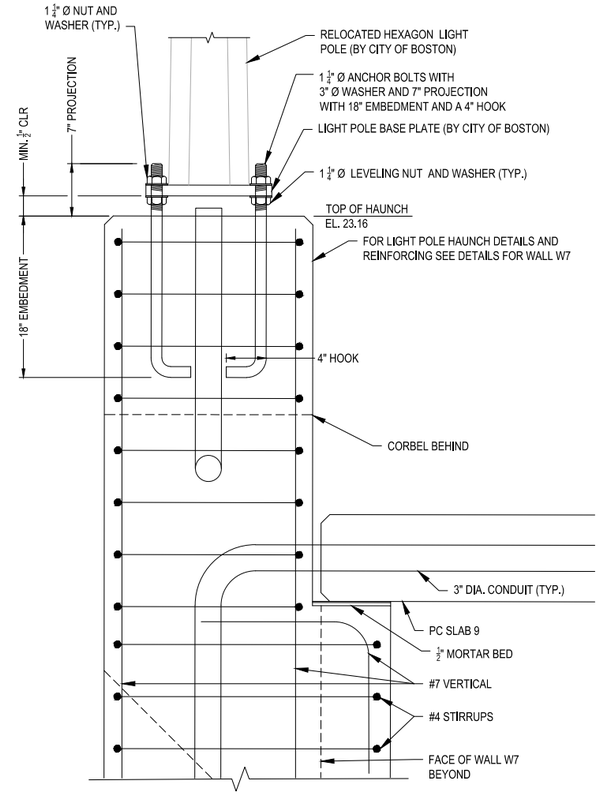
SCALE: 1" = 1'-0"



PROP. LIGHTING CONDUIT CORBEL

15
-

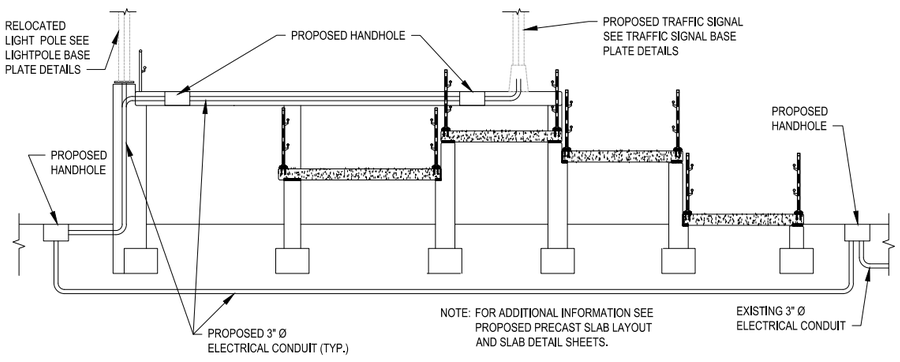
SCALE: 1" = 1'-0"



LIGHT POLE COLUMN AND BASE PLATE

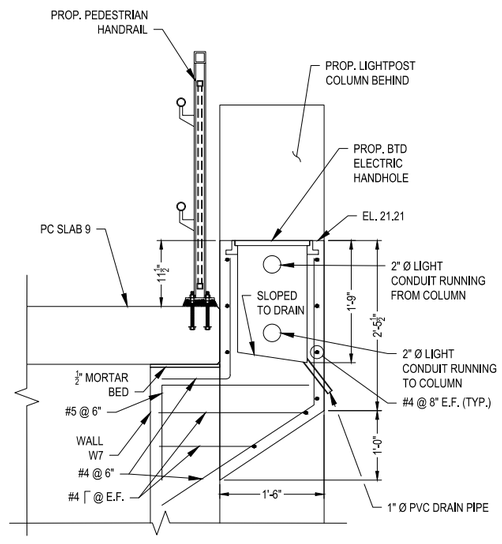
13
-

SCALE: 1½" = 1'-0"



SCHEMATIC CONDUIT SECTION (LOOKING EAST)

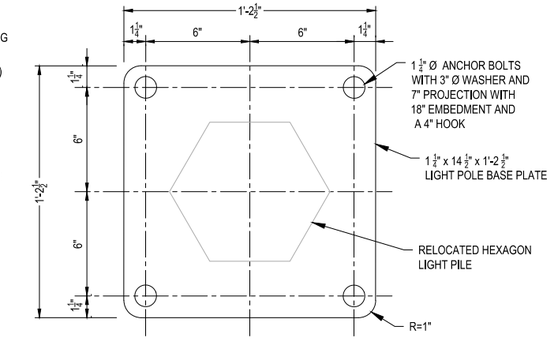
NOT TO SCALE



PROP. LIGHTING CONDUIT CORBEL - THROUGH HANDHOLE

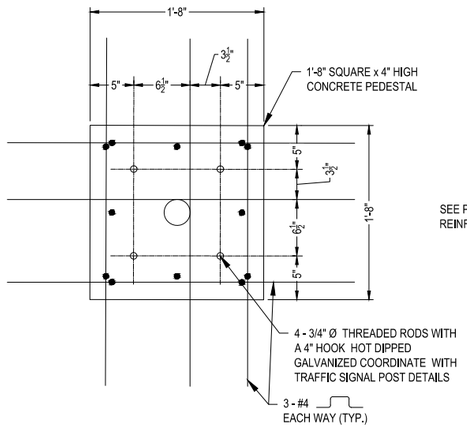
14
-

SCALE: 1" = 1'-0"



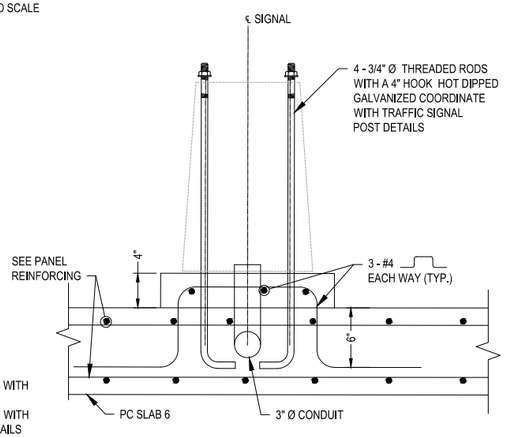
EXISTING LIGHT POLE BASE PLATE PLAN

SCALE: 3" = 1'-0"



TRAFFIC SIGNAL BASE PLAN

SCALE: 1½" = 1'-0"



TRAFFIC SIGNAL BASE SECTION

SCALE: 1½" = 1'-0"

massport
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

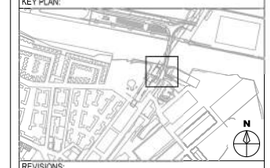
PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.

SIGNED

NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:



REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

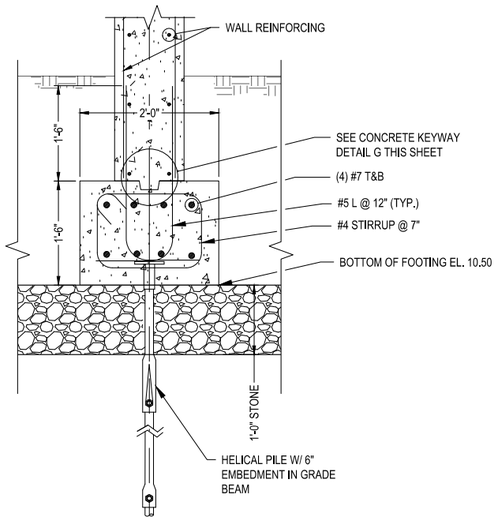
SHEET TITLE:
M666_S017 - LIGHTING AND SIGNAL ANCHORAGE DETAILS

DISCIPLINE:
STRUCTURES

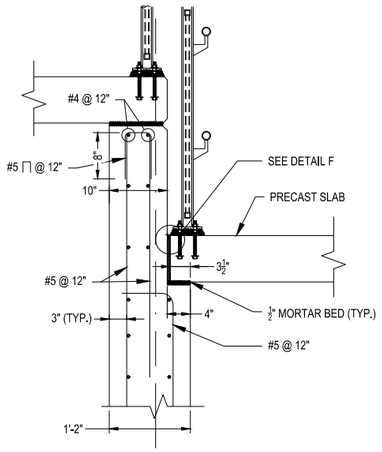
DRAWN BY:	CHECKED BY:	APPROVED BY:
DD	PCM	RX

SCALE: AS NOTED
DATE: MAY 2021

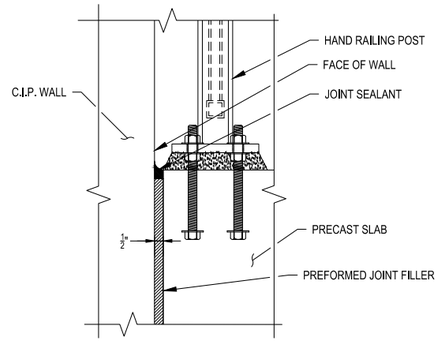
DRAWING NAME: S-017
SHEET 28 OF 30



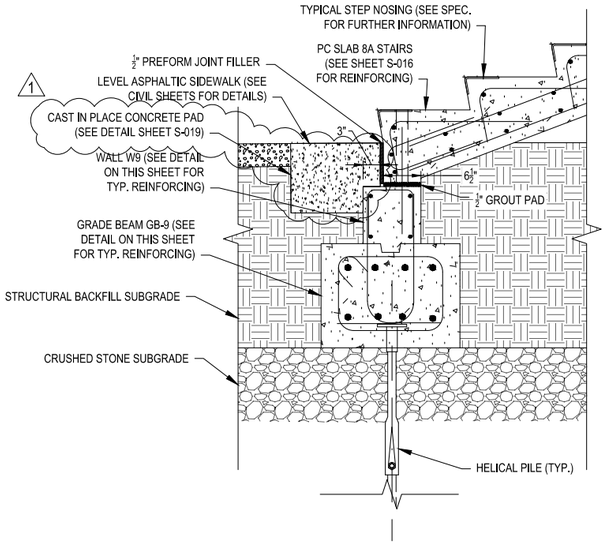
TYPICAL GRADE BEAM
SCALE: 1" = 1'-0"



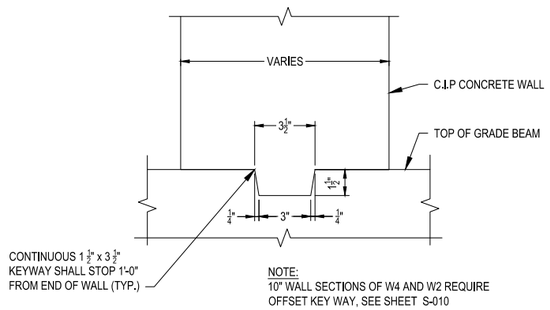
TYPICAL WALL SHELF
SCALE: 1" = 1'-0"



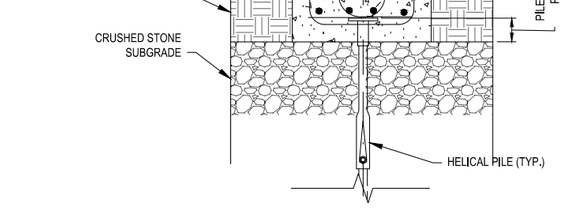
DETAIL F
SCALE: 3" = 1'-0"



DETAIL I - STAIR BOTTOM TERMINATION
SCALE: 1" = 1'-0"



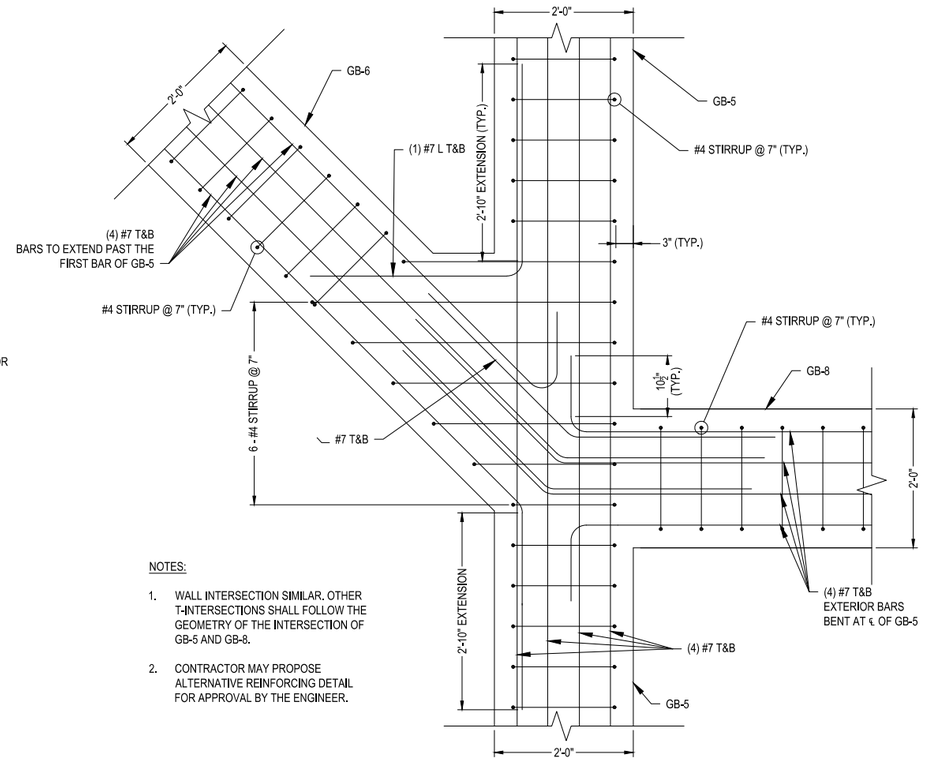
TYPICAL SLAB CONNECTION
SCALE: 3" = 1'-0"



SEWER PROTECTION
SCALE: ¾" = 1'-0"

DETAIL G - CONCRETE KEYWAY
SCALE: 3" = 1'-0"

DETAIL H - RAMP BOTTOM TERMINATION
SCALE: 1" = 1'-0"



NOTES:

1. WALL INTERSECTION SIMILAR. OTHER T-INTERSECTIONS SHALL FOLLOW THE GEOMETRY OF THE INTERSECTION OF GB-5 AND GB-8.
2. CONTRACTOR MAY PROPOSE ALTERNATIVE REINFORCING DETAIL FOR APPROVAL BY THE ENGINEER.

INTERSECTION OF GB-5 / GB-6 / GB-8 (WALL DETAIL SIMILAR)
SCALE: 1" = 1'-0"

massport

MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE: RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.
SIGNED
NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

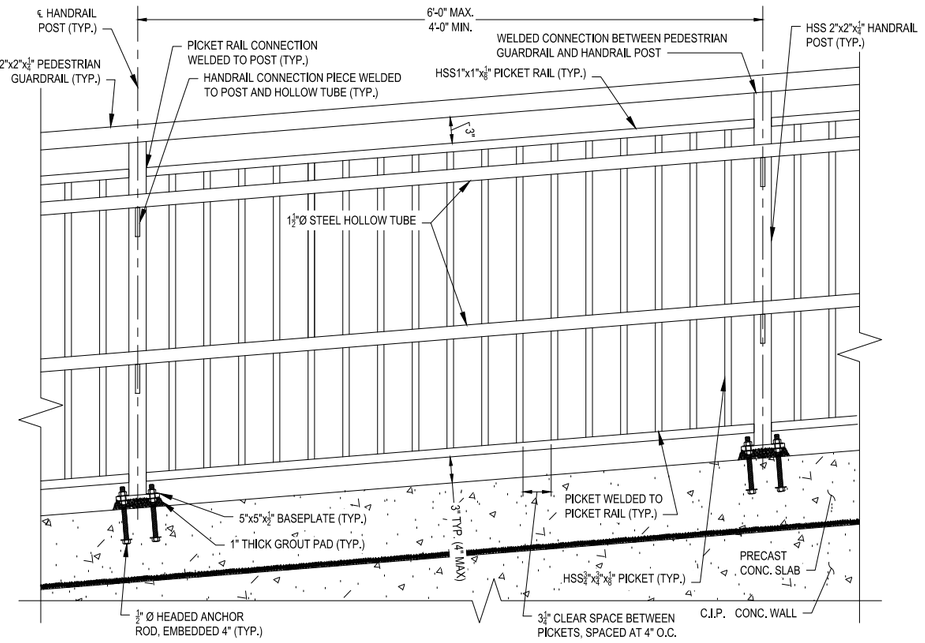
SHEET TITLE:
M666_S018 - MISCELLANEOUS DETAILS

DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
BEF	PCM	RX

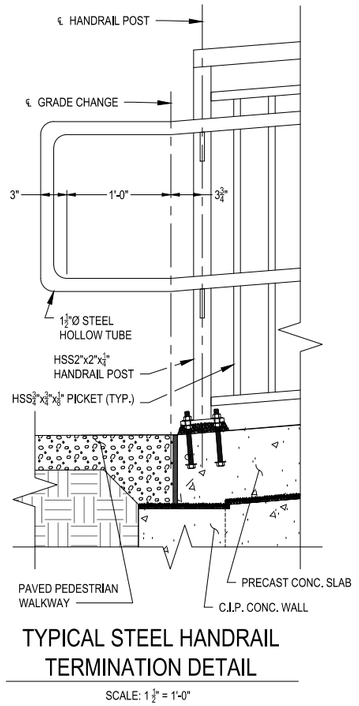
SCALE: AS NOTED
DATE: MAY 2021

DRAWING NAME: S-018
SHEET 29 OF 30



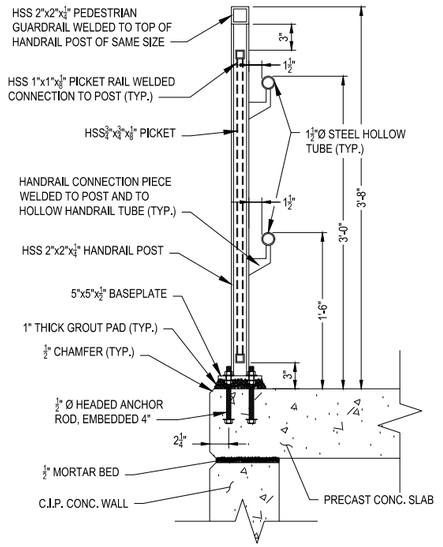
TYPICAL STEEL HANDRAIL ELEVATION

SCALE: 1 ½" = 1'-0"



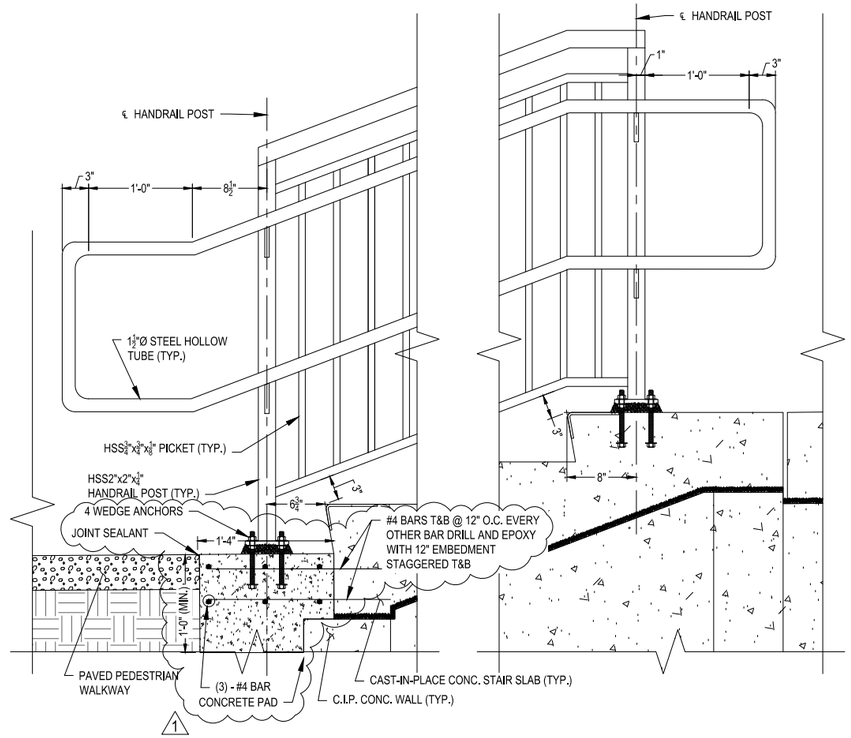
TYPICAL STEEL HANDRAIL TERMINATION DETAIL

SCALE: 1 ½" = 1'-0"



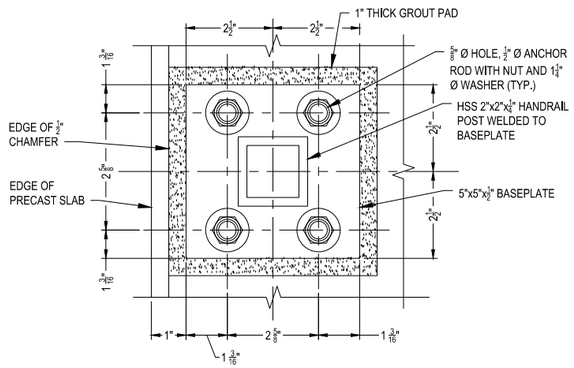
TYPICAL STEEL HANDRAIL SECTION

SCALE: 1 ½" = 1'-0"



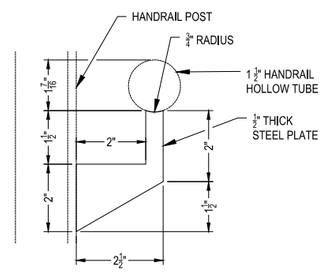
TYPICAL STEEL HANDRAIL STAIR TERMINATIONS

SCALE: 1 ½" = 1'-0"



TYPICAL BASE PLATE DETAIL

SCALE: 6" = 1'-0"



TYPICAL HANDRAIL CONNECTION PLATE DETAIL

SCALE: 6" = 1'-0"

massport
MASSACHUSETTS PORT AUTHORITY
EAST BOSTON, MASSACHUSETTS 02128

PROJECT LOCATION:
CHARLESTOWN COMMUNITY PATH - COMPONENT 1 BARRY FIELD CONNECTOR

MPA CONTRACT NO.: M666 - C1
LOCATION CODE:

PROJECT SUBMISSION PHASE:
RECORD DRAWING

REGISTRATION STAMP:
RECORD DRAWING
I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, BASED UPON CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR, THAT ALL WORK SHOWN ON THIS DRAWING HAS BEEN COMPLETED AS SHOWN.
SIGNED
NOTE: WORDING CONTAINED HEREON IS UNDERSTOOD TO BE PAST TENSE.

KEY PLAN:

REVISIONS:

REV NO.:	DATE:	DESCRIPTION:	BY:
1	11/28/22	RECORD DRAWINGS	

PRIMARY:
HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MA 02110-2378
(617) 357-7700 www.hdrinc.com

CONSULTANT:

PROJECT NUMBER AND TITLE:
M666-C1
CHARLESTOWN COMMUNITY PATH IMPROVEMENTS BARRY FIELD CONNECTION (COMPONENT 1)

SHEET TITLE:
M666_S019 - HANDRAIL DETAILS

DISCIPLINE:
STRUCTURES

DRAWN BY:	CHECKED BY:	APPROVED BY:
DD	PCM	RX

SCALE:	DATE:
AS NOTED	MAY 2021

DRAWING NAME: SHEET 30 OF 30
S-019