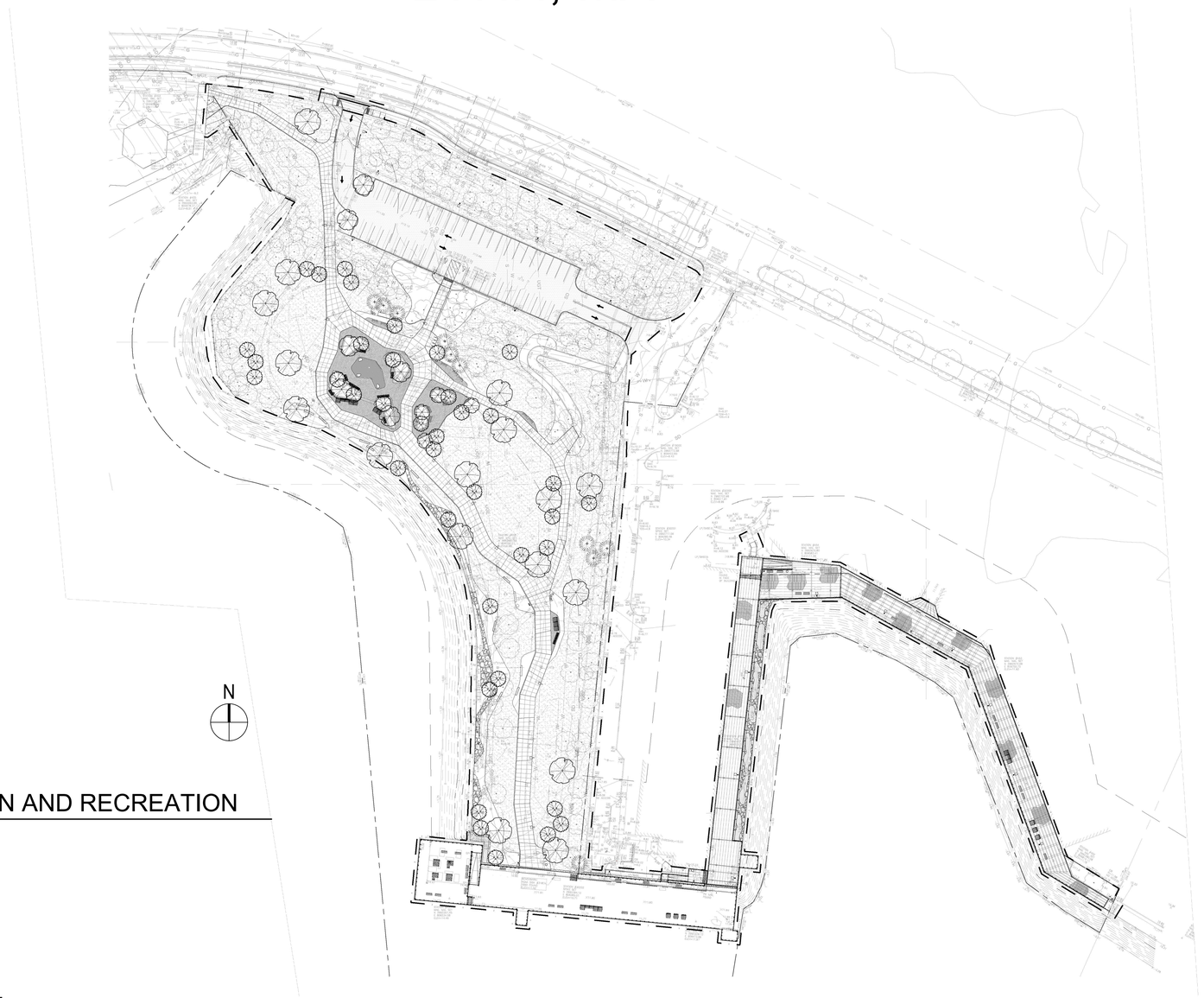
DEPARTMENT OF CONSERVATION AND RECREATION

VETERANS MEMORIAL PARK
WATERFRONT IMPROVEMENTS & BOARDWALK RECONSTRUCTION
LYNN, MA



N

DEPARTMENT OF CONSERVATION AND RECREATION
10 Park Plaza, Suite 6620
Boston, MA 02116
617-626-1250

DCR Project Manager:
Patrice Kish
Chief, Division of Design & Engineering

PROJECT NUMBER: P24-3575-C1A

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BOSTON, MA 02110

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WWW.BROWNROWE.COM

dcr Massachusetts

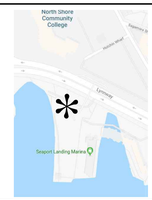
Foth

Stantec
Stantec Consulting Services Inc.
45 Blue Sky Drive, 3rd Floor
Burlington, MA 01803
Tel: 781.221.1000
www.stantec.com

VETERANS MEMORIAL PARK
WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

COVER SHEET

ACCESSION #:104933x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

SCALE:

SUBMISSION: BID SET

DRAWING NO.

V-0

SHEET LIST:

V-0 COVER SHEET
V-1 INDEX

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S-2 EXISTING CONDITIONS SURVEY SHEET 2 OF 3
S-3 EXISTING CONDITIONS SURVEY SHEET 3 OF 3

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L-2 SITE PREPARATION & DEMOLITION PLAN SHEET 2 OF 3
L-3 SITE PREPARATION & DEMOLITION PLAN SHEET 3 OF 3
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L-5 SITE MATERIALS PLAN SHEET 2 OF 3
L-6 SITE MATERIALS PLAN SHEET 3 OF 3
L-7 SITE LAYOUT PLAN SHEET 1 OF 4
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L-8 SITE LAYOUT PLAN SHEET 3 OF 4
L-9 SITE LAYOUT PLAN SHEET 4 OF 4
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SF-2 PARK LIGHTING FOUNDATION DETAILS SHEET 2 OF 2

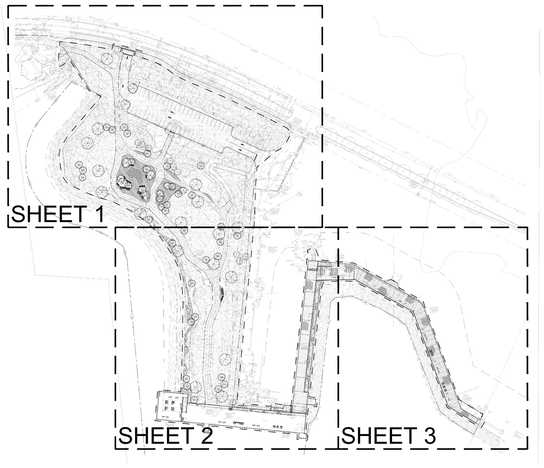
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MS-22 WOOD DECK DETAILS SHEET 1 OF 2
MS-23 WOOD DECK DETAILS SHEET 2 OF 2

*PLAN SHEET KEY PLAN



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dcr Massachusetts

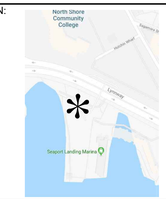
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Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

INDEX

ACCESSION #:104934x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

SCALE: N/A

SUBMISSION: BID SET

DRAWING NO.

V-1

SEE SHEET S-2 FOR EXISTING LEGEND AND SEE SHEET S-3 FOR EXISTING ABBREVIATIONS

NOTES:

1. COORDINATES, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983, (2011), Epoch 2010.00, BASED ON THE KeyNet GPS VIRTUAL REFERENCE SYSTEM (VRS).

2. ELEVATIONS, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) BASED ON THE KeyNet GPS VIRTUAL REFERENCE SYSTEM (VRS) NETWORK.

3. SUBSURFACE UTILITY LINES AND FEATURES, AS SHOWN HEREON, WERE COMPILED FROM FIELD EVIDENCE OR AVAILABLE RECORD INFORMATION (SEE REFERENCES), AND THEIR LOCATIONS ARE ONLY APPROXIMATE. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. SMC ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.

BEFORE DESIGNING FUTURE CONNECTIONS, THE APPROPRIATE UTILITIES MUST BE CONSULTED.

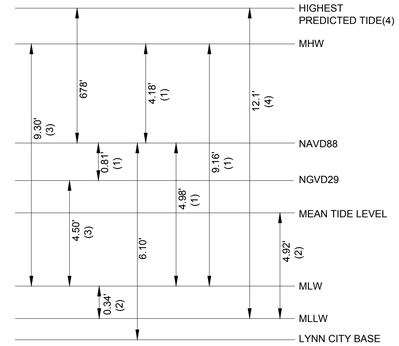
BEFORE CONSTRUCTION, ALL UTILITIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED (SEE MASSACHUSETTS GENERAL LAWS, CHAPTER 82 SECTION 40). CALL "DIG SAFE" 1-888-DIG-SAFE. (888-344-7233).

4. SUBJECT PROPERTY FALLS WITHIN (ZONE AE) SPECIAL FLOOD HAZARD AREAS AS SHOWN ON FLOOD INSURANCE RATE MAP N0. 25009C0529G, REVISED JULY 16, 2014.

5. COASTAL BANK LINE PROVIDED BY LEC ENVIRONMENTAL CONSULTANTS, INC. ON OCTOBER 25, 2018. (WETLAND PROTECTION PROGRAM POLICY 92-1, STANDARD D, FIGURE 4.)

6. PRESUMPTIVE CHAPTER 91 HISTORIC HIGH WATER LINE OBTAINED FROM MassGIS DATA: TIDELANDS JURISDICTION (M.G.L. Ch 91) DATALAYERS, AS DETERMINED BY MASSACHUSETTS CHAPTER 91 MAPPING PROJECT, PREPARED BY BSC GROUP, 2006.

VERTICAL DATUM RELATIONSHIPS



SOURCES: (1) NOAA ONLINE VERTICAL DATUM TRANSFORMATION

(2) NOAA TIDAL STATION I.D. NO. 8443187 (TIDAL EPOCH 1983-2001)

(3) D.E.Q.E. LICENSE NO. 959

(4) NOAA TIDE PREDICTIONS LYNN HARBOR, MA OBTAINED NOVEMBER 29, 2018. HIGHEST PREDICTED TIDE ON JANUARY 3, 2018 AT 11:49AM

LYNNWAY (ROUTE 1A)

(1983 MDC LAYOUT)

1983 MDC LAYOUT BASELINE

STATION #405 MAG. NAIL SET N 2993063.66 E 805978.37 ELEV=8.51

STATION #404 SPIKE SET N 2993174.83 E 806129.42 ELEV=11.29

STATION #406 SPIKE SET N 2993022.35 E 806291.30 ELEV=11.82

STATION #407 PATIO STATION MAG. NAIL SET N 2992968.38 E 806248.48 ELEV=13.3

STATION #408 MAG. NAIL SET N 2992865.58 E 806461.05 ELEV=10.96

STATION #15000 MAG. NAIL SET N 2992773.68 E 806423.83 ELEV=9.43

#172 ASSESSORS ID: 067-749-030 N/F COMMONWEALTH OF MASSACHUSETTS BOOK 9921 PAGE 504 FORMERLY LAND COURT REGISTERED PARCEL 5

#180 ASSESSORS ID: 067-749-031 N/F COMMONWEALTH OF MASSACHUSETTS BOOK 9921 PAGE 504

#0 ASSESSORS ID: 067-749-084 N/F COMMONWEALTH OF MASSACHUSETTS BOOK 9921 PAGE 504

#0 ASSESSORS ID: 067-749-110 N/F COMMONWEALTH OF MASSACHUSETTS BOOK 9921 PAGE 504

ASSESSORS ID: 067-749-118 N/F COMMONWEALTH OF MASSACHUSETTS BOOK 9921 PAGE 504

COMMONWEALTH OF MASSACHUSETTS NF BOOK 9921 PAGE 504

PEDESTRIAN OVERPASS EASEMENT W BOOK 9707 PAGE 504

SEAPORT DEV CORP UTILITY EASEMENT BOOK 9914 PAGE 237

LAND UNDER OCEAN BELOW MLW

MEAN HIGH WATER LINE EL.=4.2'

HIGHEST PREDICTED TIDE(JANUARY 3, 2018) EL=6.8'

MEAN LOW WATER LINE EL.=-5.0'

TOP OF COASTAL BANK

100' BUFFER TO COASTAL BANK LANDS WITHIN 100 FEET

LYNNWAY MARINE POSSIBLY ABANDONED

TELEPHONE LINE TO LYNNWAY MARINE- POSSIBLY ABANDONED

GAS LINES TO LYNNWAY MARINE- POSSIBLY ABANDONED

APPROX. EDGE OF TREE CANOPY (TYP.)

APPROX EDGE OF TREE CANOPY

APPROX. EDGE OF TREE CANOPY (TYP.)

APPROX EDGE OF TREE CANOPY

18"NAHANT FORCE MAIN (S) APPROX. LOCATION

12"CMP (R)

12"RCP (R)

12"CMP

12"RCP

PEDESTRIAN BRIDGE

CONCRETE HEADWALL

JERSEY BARRIER

BOULDER

BOULDERS (TYP.)

U/G DRAIN VAULT

CONC PAD

WG

DMH

CB

HH

SMH

GRANITE BENCHES

PAVER PATIO

BENCH

BILLBOARD

Z" PIPE FAUCET

CONCRETE SUPPORT COLUMNS (TYP.)

BRICK RET WALL W/ PLANTER

SEAPORT LANDING BRICK SIGN

METAL GATE

PLANTER

LST W/ GRAVEL STEPS

STAND PIPES

CONC WALK

CROSSWALK

TRANS

CU

HP-20A EL=14.4'

HP-21A EL=11.9'

HP-22A EL=12.1'

HP-23A EL=12.2'

HP-24A EL=12.3'

HP-25A EL=12.5'

HP-26A EL=12.1'

HP-27A EL=13.0'

TP-1 EL=11.5'

TP-2 EL=12.2'

TP-3 EL=12.7'

TP-4 EL=12.3'

TP-5 EL=11.7'

MATCH LINE

SEE DRAWING NO. S-2

MAG. NAIL SET

Rev.:	DECEMBER 3, 2018
Date:	OCTOBER 30, 2018
Job No.:	2018138.00
Drawn By:	MC/CQ
Checked By:	KH
Calc'd By:	NP
Drawing No.:	201813800WS.DWG
Sheet:	1 OF 3

N

SCALE: 1" = 20'

10 0 10 20 40

DAWOOD

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Braintree, MA 02184

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t: 781.380.7757

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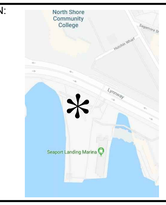
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS KEVIN HANLEY No. 31313 REGISTERED PROFESSIONAL LAND SURVEYOR

12 November 2025

KEVIN HANLEY, PLS
MASSACHUSETTS REG. No. 31313
DAWOOD, A WOOLPERT COMPANY
BRAINTREE, MA

DRAWING TITLE:

EXISTING CONDITIONS SURVEY

SHEET 1 OF 3

ACCESSION #:104935x

DESIGNED:

DRAWN: MC/CQ CHECKED: KH

DATE: NOVEMBER 12, 2025

SCALE: 1"=20'-0"

SUBMISSION: BID SET

DRAWING NO.

S-1

PLAN REFERENCES

1. PLAN OF LAND PREPARED FOR: LYNN OFFICE OF ECONOMIC DEVELOPMENT. DATED: FEBRUARY 20, 1991. RECORDED IN THE SOUTHERN ESSEX REGISTRY OF DEEDS
AS PLAN BOOK 289 PAGE 61.

2. PLAN OF LAND IN LYNN MASS., TO BE ACQUIRED BY THE LYNN ECONOMIC DEVELOPMENT AND INDUSTRIAL CORPORATION. DATED: JANUARY 28, 1984. RECORDED IN THE SOUTHERN ESSEX REGISTRY OF DEEDS AS PLAN BOOK 187, PAGE 50.

3. PLAN OF LAND IN LYNN MA., PREPARED FOR THE MILES GROUP AND THE CITY OF LYNN. DATED MARCH 28, 2000. RECORDED IN THE SOUTHERN ESSEX REGISTRY OF DEEDS
AS PLAN BOOK 347, PAGE 78.

4. PLAN OF LAND TO BE CONVEYED BY LYNN E.D.I.C. TO THE COMMONWEALTH OF MASSACHUSETTS. DATED: DECEMBER 1987.RECORDED IN THE SOUTHERN ESSEX REGISTRY OF DEEDS
AS PLAN BOOK 250, PAGE 4.

5. PLAN OF LAND TO BE ACQUIRED BY THE LYNN ECONOMIC DEVELOPMENT AND INDUSTRIAL CORPORATION. DATED: OCTOBER 1982. RECORDED IN THE SOUTHERN ESSEX REGISTRY OF DEEDS
AS PLAN BOOK 175, PAGE 40.

6. PLAN OF LAND IN LYNN MASS. FOR HARBORSIDE LANDING REALTY TRUST. DATED: DECEMBER 21, 1987. RECORDED IN THE SOUTHERN ESSEX REGISTRY OF DEEDS
AS PLAN BOOK 234, PAGE 98.

7. PLAN OF LAND IN LYNN, MA., PREPARED FOR SEAPORT DEVELOPMENT ASSOCIATES. DATED: SEPTEMBER 20, 1982. RECORDED IN THE SOUTHERN ESSEX REGISTRY OF DEEDS
AS PLAN BOOK 178, PAGE 90.

8. METROPOLITAN DISTRICT COMMISSION LAYOUT OF 1953. DATED: NOVEMBER 2, 1953.

9. METROPOLITAN DISTRICT COMMISSION PARKS DIVISION LYNNWAY. PLAN TO BE CONVEYED TO LYNNWAY MARINE INC. DATED: JULY 1968. RECORDED IN THE SOUTHERN ESSEX REGISTRY OF DEEDS AS PLAN BOOK 112, PAGE 43.

10. EASEMENT PLAN IN LYNN MA., FOR E.D.I.C. DATED: DECEMBER 1983. RECORDED IN THE SOUTHERN ESSEX REGISTRY OF DEEDS PLAN 9 OF 1984.

11. PLAN FOR SALE OF LAND LYNNWAY. DATE: JULY 30, 1956. FILED IN THE CITY ENGINEERS DEPARTMENT.

12. METROPOLITAN DISTRICT COMMISSION LYNNWAY PLAN OF TAKING. DATED: MAY 1988. RECORDED IN THE SOUTHERN ESSEX REGISTRY OF DEEDS AS PLAN BOOK 244, PAGE 45.

UTILITY REFERENCES

1. COMMONWEALTH OF MASSACHUSETTS METROPOLITAN DISTRICT COMMISSION PARKS ENGINEERING AND CONSTRUCTION DIVISION LYNN, MA REHABILITATION OF LYNNWAY-CARROLL HIGHWAY PROVIDED BY: LYNN WATER AND SEWER COMMISSION
DATED: MAY 4, 1988 SCALE: 1"=20' SHEETS: 93, 94, & 95

2. COMCAST PLANS OF UNDERGROUND FACILITIES CREATED: AUGUST 30, 2018

4. NATIONAL GRID UNDERGROUND ELECTRIC REQUEST PLANS
DATED: AUGUST 3, 2018

5. NATIONAL GRID GAS PLAN K1621
DATED AUGUST 3, 2018

6. TELEPORT COMMUNICATIONS BOSTON CONDUIT PLACEMENT LYNNWAY, LYNN, MA
AS-BUILT PLAN FROM STA. 19+80 TO STA. 25+25, RD005
SCALE: 1"=40'

7. DIVISION OF FORESTS AND PARKS DEPARTMENT OF ENVIRONMENTAL MANAGEMENT COMMONWEALTH OF MASSACHUSETTS SURFACE DRAINAGE UTILITY PLAN SU-1
PROVIDED BY DEPARTMENT OF CONSERVATION AND RECREATION LYNN HERITAGE STATE PARK
DATED: JANUARY 1938, SCALE: 1"=40'

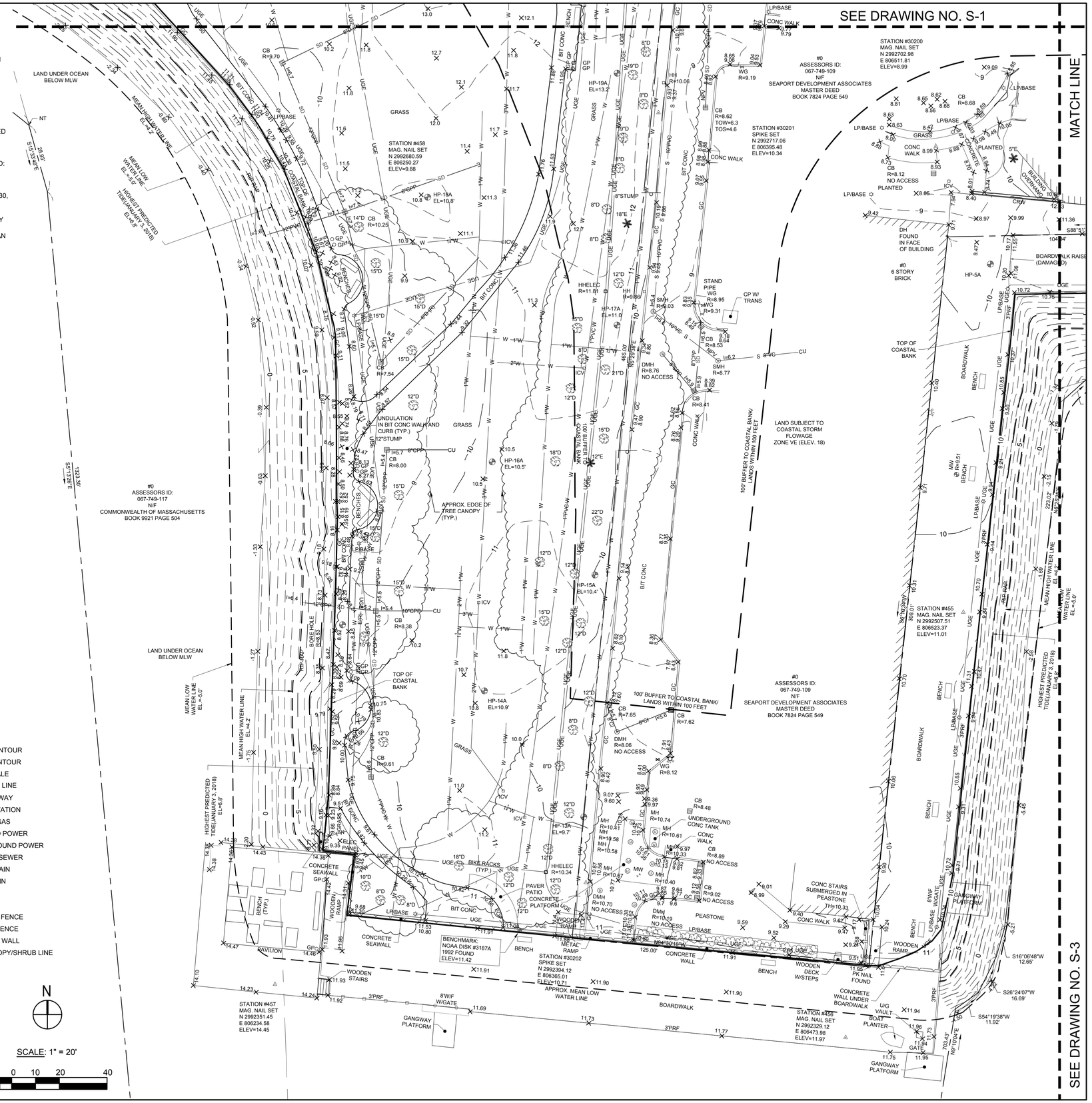
8. DIVISION OF FORESTS AND PARKS DEPARTMENT OF ENVIRONMENTAL MANAGEMENT COMMONWEALTH OF MASSACHUSETTS SITE ELECTRICAL PLAN SE-1
PROVIDED BY DEPARTMENT OF CONSERVATION AND RECREATION LYNN HERITAGE STATE PARK
DATED: SEPTEMBER 1982, SCALE 1"=40'

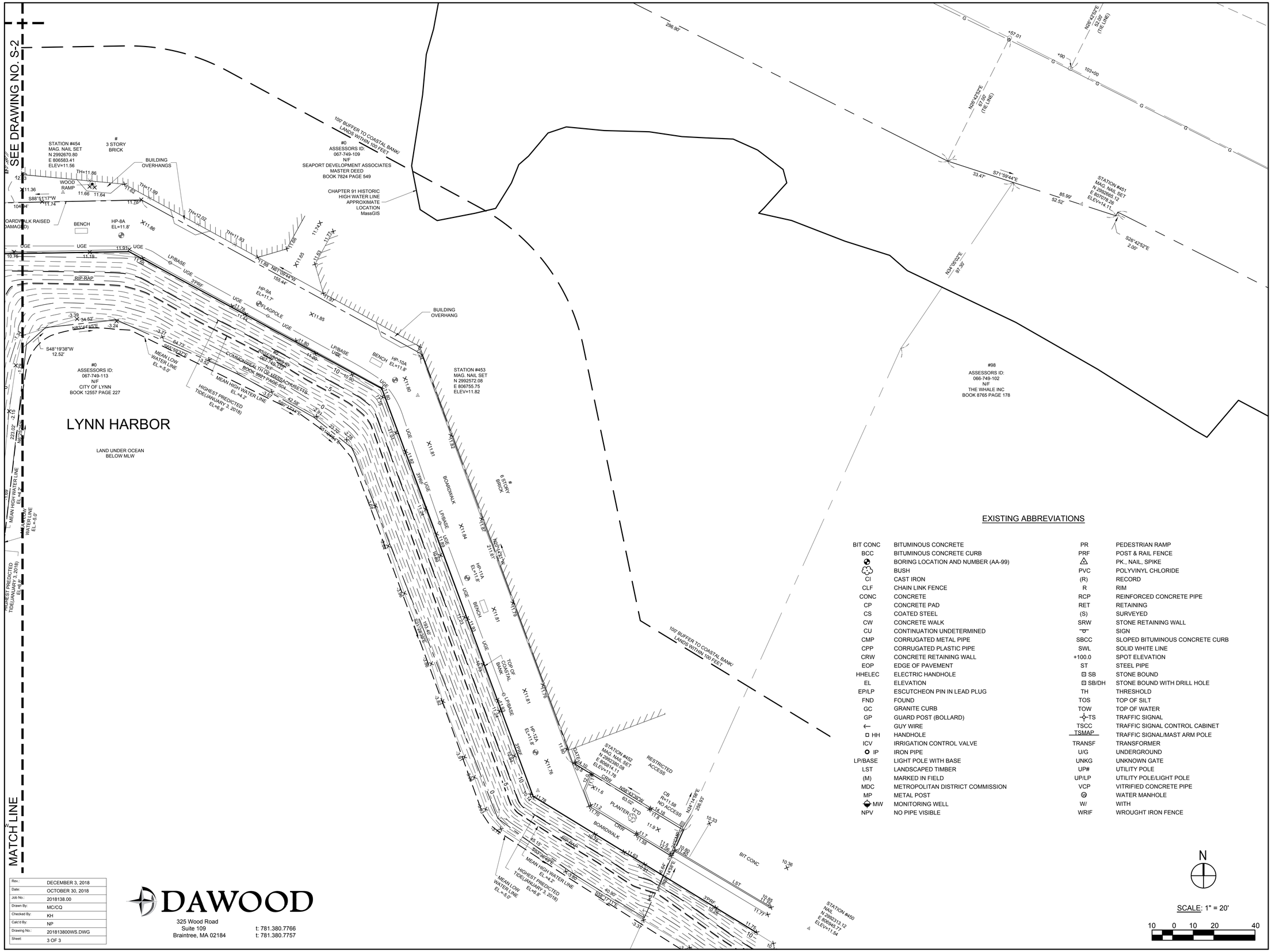
9. DIVISION OF FORESTS AND PARKS DEPARTMENT OF ENVIRONMENTAL MANAGEMENT COMMONWEALTH OF MASSACHUSETTS IRRIGATION PLAN SI-1
PROVIDED BY DEPARTMENT OF CONSERVATION AND RECREATION LYNN HERITAGE STATE PARK
DATED: JANUARY 1983, SCALE: 1"=40'

10. PLANS PROVIDED BY LYNN DEPARTMENT OF PUBLIC WORKS RECEIVED: AUGUST 22, 2018

EXISTING LEGEND

- EXISTING BOUND
- EXISTING BENCHMARK
- EXISTING SURVEY POINT
- EXISTING CATCH BASIN (SQUARE)
- EXISTING DRAIN MANHOLE (DMH)
- EXISTING ELECTRICAL MANHOLE
- EXISTING HYDRANT
- EXISTING IRON PIN
- EXISTING SEWER MANHOLE (SMH)
- EXISTING SINGLE POLE SIGN
- EXISTING DOUBLE POLE SIGN
- EXISTING LIGHT POST
- EXISTING DRAINAGE FLOW
- EXISTING STUMP
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- EXISTING TELEPHONE MANHOLE
- EXISTING GATE VALVE
- 100 — EXISTING MAJOR CONTOUR
- 98 — EXISTING MINOR CONTOUR
- EXISTING DITCH/SWALE
- EXISTING PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- X 95.5 — EXISTING SPOT ELEVATION
- G — EXISTING NATURAL GAS
- OHE — EXISTING OVERHEAD POWER
- UGE — EXISTING UNDERGROUND POWER
- S — EXISTING SANITARY SEWER
- SD — EXISTING STORM DRAIN
- W — EXISTING WATER MAIN
- CATV — EXISTING CABLE TV
- X — X — X — EXISTING FENCE
- EXISTING CHAINLINK FENCE
- EXISTING WOODEN FENCE
- EXISTING RETAINING WALL
- EXISTING TREE CANOPY/SHRUB LINE


SEE DRAWING NO. S-1
MATCH LINE
SEE DRAWING NO. S-3
LAND UNDER OCEAN BELOW MLW
MEAN LOW WATER LINE EL=-5.0'
MEAN HIGH WATER LINE EL=4.2'
MEAN LOW WATER LINE EL=-5.0'
HIGHEST PREDICTED TIDE(JANUARY 3, 2018) EL=8.8'
TOP OF COASTAL BANK
100' BUFFER TO COASTAL BANK/ LANDS WITHIN 100 FEET
LAND SUBJECT TO COASTAL STORM FLOWAGE ZONE VE (ELEV. 18)
#0 ASSESSORS ID: 067-749-117 N/F COMMONWEALTH OF MASSACHUSETTS BOOK 9921 PAGE 504
#0 ASSESSORS ID: 067-749-109 N/F SEAPORT DEVELOPMENT ASSOCIATES MASTER DEED BOOK 7824 PAGE 549
#0 6 STORY BRICK
STATION #458 MAG. NAIL SET N 2992680.59 E 806250.27 ELEV=9.88
STATION #30200 MAG. NAIL SET N 2992702.98 E 806511.81 ELEV=8.99
STATION #30201 SPIKE SET N 2992717.06 E 806395.48 ELEV=10.34
STATION #455 MAG. NAIL SET N 2992507.51 E 806523.37 ELEV=11.01
STATION #457 MAG. NAIL SET N 2992351.45 E 806234.58 ELEV=14.45
STATION #456 MAG. NAIL SET N 2992329.12 E 806473.98 ELEV=11.97
STATION #30202 SPIKE SET N 2992394.12 E 806365.01 ELEV=10.71
BENCHMARK: NOAA DISK #3187A 1992 FOUND ELEV=11.42
APPROX. MEAN LOW WATER LINE
APPROX. EDGE OF TREE CANOPY (TYP.)
UNDULATION IN BIT CONC WALKWAND CURB (TYP.)
100' BUFFER TO COASTAL BANK/ LANDS WITHIN 100 FEET
CONCRETE SEAWALL
CONCRETE PLATFORM
CONCRETE WALL
CONCRETE WALL UNDER BOARDWALK
BOARDWALK
GANGWAY PLATFORM
WOODEN RAMP
WOODEN STAIRS
WOODEN DECK W/STEPS
METAL RAMP
PAVILION
BENCH
BIKE RACKS (TYP.)
BOAT PLANTER
PAVER PATIO
PEASTONE
CONC STAIRS SUBMERGED IN PEASTONE
UNDERGROUND CONC TANK
BORE HOLE
PLANTED
BUILDING OVERHANG
BOARDWALK RAISED (DAMAGED)
N 7°10'47"E 29.93'
S 15°19'48"E
S 15°19'28"E 1323.30'
N 7°10'47"E 703.43'
S 16°06'48"W 12.65'
S 26°24'07"W 16.69'
S 54°19'38"W 11.92'
S88°51'
104°04'
223.02'
2.16'
-2.58'
-5.40'
-5.21'
-1.69'
-1.72'
-1.75'
-1.33'
-0.63'
-0.39'
-0.34'
-0.40'
-0.80'
-0.78'
-0.41'
-0.24'
-0.30'
-0.36'
-0.37'
-0.55'
-0.65'
-0.69'
-0.70'
-0.71'
-0.72'
-0.74'
-0.76'
-0.77'
-0.78'
-0.79'
-0.80'
-0.81'
-0.82'
-0.83'
-0.84'
-0.85'
-0.86'
-0.87'
-0.88'
-0.89'
-0.90'
-0.91'
-0.92'
-0.93'
-0.94'
-0.95'
-0.96'
-0.97'
-0.98'
-0.99'
-1.00'
-1.01'
-1.02'
-1.03'
-1.04'
-1.05'
-1.06'
-1.07'
-1.08'
-1.09'
-1.10'
-1.11'
-1.12'
-1.13'
-1.14'
-1.15'


SEE DRAWING NO. S-2
MATCH LINE
LYNN HARBOR
LAND UNDER OCEAN BELOW MLW
STATION #454
MAG. NAIL SET
N 2992670.80
E 806583.41
ELEV=11.56
# 3 STORY BRICK
BUILDING OVERHANGS
WOOD RAMP
BOARDWALK RAISED (DAMAGED)
BENCH
HP-8A EL=11.8'
RIP-RAP
#0
ASSESSORS ID:
067-749-113
N/F
CITY OF LYNN
BOOK 12557 PAGE 227
MEAN LOW WATER LINE EL.=-5.0'
MEAN HIGH WATER LINE EL.=4.2'
HIGHEST PREDICTED TIDE(JANUARY 3, 2018) EL=6.8'
100' BUFFER TO COASTAL BANK/ LANDS WITHIN 100 FEET
#0
ASSESSORS ID:
067-749-109
N/F
SEAPORT DEVELOPMENT ASSOCIATES
MASTER DEED
BOOK 7824 PAGE 549
CHAPTER 91 HISTORIC HIGH WATER LINE APPROXIMATE LOCATION MassGIS
HP-9A EL=11.7'
FLAGPOLE
BUILDING OVERHANG
STATION #453
MAG. NAIL SET
N 2992572.08
E 806755.75
ELEV=11.82
#0
ASSESSORS ID:
067-749-102
N/F
COMMONWEALTH OF MASSACHUSETTS
BOOK 9921 PAGE 604
BOARDWALK
6 STORY BRICK
HP-10A EL=11.8'
HP-11A EL=11.8'
BENCH
TOP OF COASTAL BANK
L/PBASE
UGE
3TPRF
CRW
CONCRETE PLANTER
CB Rr=1.58 NO ACCESS
RESTRICTED ACCESS
STATION #452
MAG. NAIL SET
N 2992390.18
E 806811.11
ELEV=11.78
HP-12A EL=11.8'
100' BUFFER TO COASTAL BANK/ LANDS WITHIN 100 FEET
#98
ASSESSORS ID:
066-749-102
N/F
THE WHALE INC
BOOK 8765 PAGE 178
STATION #451
MAG. NAIL SET
N 2992883.12
E 807074.28
ELEV=11.71
STATION #450
MAG. NAIL SET
N 2992313.12
E 806946.57
ELEV=11.54
BIT CONC
LST
N 28°42'29"E 61.00' (TIE LINE)
N26°42'52"E 61.00' (TIE LINE)
S71°58'44"E 33.47'
S26°42'32"E 2.00'
N34°08'02"E 91.36'
S48°19'38"W 12.52'
N81°59'44"W 155.44'
N81°44'45"E 64.73'
S81°59'44"E 42.58'
S81°59'44"E 40.90'
N26°42'52"W 63.02'
N24°14'58"E 256.85'
S81°59'44"E 45.18'
S81°59'44"E 246.22'
S81°59'44"E 3.31'
S88°51'17"W 104.84'
N 28°42'29"E 61.00' (TIE LINE)
+57.01
+90
103+00
297.90'
223.02'
S 28°42'52" E
N 28°42'52" W
S 81°59'44" E
N 81°59'44" W
S 81°59'44" E
N 81°59'44" W
S 81°59'44" E
N 81°59'44

LEGEND

- REMOVE AND DISPOSE OF EXISTING BITUMINOUS CONCRETE PAVEMENT AND ALL ASSOCIATED BASE COURSES
- REMOVE AND DISPOSE OF EXISTING CONCRETE PAVERS INCLUDING STEEL EDGING AND ALL ASSOCIATED BASE COURSES
- REMOVE AND DISPOSE OF EXISTING CONCRETE PAVING AND ALL ASSOCIATED BASE COURSES
- REMOVE AND DISPOSE OF EXISTING GRANITE PAVING AND ALL ASSOCIATED BASE COURSES
- PRESERVE AND PROTECT EXISTING GRANITE LANDSCAPE EDGE
- PRESERVE AND PROTECT EXISTING GRANITE CURB
- PRESERVE AND PROTECT EXISTING PEDESTRIAN BRIDGE
- CLEAR + GRUB EXISTING LAWN AND MISCELLANEOUS VEGETATION, TYP.
- EXISTING TREE AND STUMP TO BE REMOVED AND DISPOSED OF, FILL HOLES WITH APPROVED LOAM OR AMENDED TOPSOIL, TYP.
- EXISTING TREE TO REMAIN, TREE PROTECTION FENCE AND TREE TRUNK PROTECTION (1 / LD-5)
- FILTER TUBE FOR EROSION CONTROL (2 / LD-5)
- REMOVE AND DISPOSE OF EXISTING PARK BENCH AND ALL ASSOCIATED FOOTINGS/BASE COURSES
- REMOVE AND DISPOSE OF EXISTING SIGN AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING METAL POSTS AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING BOLLARDS AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING TRASH BINS AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING BIKE RACK AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE AND ALL ASSOCIATED FOOTINGS
- REMOVE, SALVAGE, AND DELIVER EXISTING GRANITE BLOCK SEATWALL. DISPOSE OF ALL ASSOCIATED FOOTINGS/BASE COURSES

EX.	EXISTING
CONC.	CONCRETE
C+G	CLEAR AND GRUB
P+P	PRESERVE AND PROTECT
R+D	REMOVE AND DISPOSE
TYP.	TYPICAL

LIMIT OF WORK, TYP.

R+D EXISTING CHAIN LINK FENCE AND METAL/WOOD POSTS BEYOND END OF CONCRETE WALL. COORDINATE EXTENTS WITH LANDSCAPE ARCHITECT IN FIELD

PREVIOUSLY REMOVED BY OTHERS

R+D EXISTING PIPE FAUCET

SEE CIVIL SHEET C1 FOR SITE PREPARATION INFORMATION FOR PARKING LOT AND ROADWAY

SEE SEE CIVIL SHEET C1 FOR ENTRY DRIVE DEMOLITION

EROSION CONTROL FILTER TUBE, TYP.

P+P EXISTING DRAINAGE MANHOLE

PRUNE EXISTING TREE, TYP.

TREE PROTECTION FENCE, TYP.

PRUNE EXISTING TREE, TYP.

REFER TO ELECTRICAL SERIES FOR REMOVAL OR PROTECTION OF EXISTING LIGHTING , TYP.

PRESERVE AND PROTECT EXISTING CONC. SIDEWALK, TYP.

LYNNWAY (ROUTE 1A)

PRUNE EXISTING TREE, TYP.

PRUNE SUCKERS AT BASE OF TREE, TYP.

PRESERVE AND PROTECT EXISTING CONC. SIDEWALK, TYP.

PRUNE EXISTING TREE, TYP.

EXISTING TREE AND STUMP TO BE REMOVED AND DISPOSED OF, AND HOLES FILLED WITH APPROVED LOAM OR AMENDED TOPSOIL, TYP.

APPROXIMATE ALINGNMENT OF ADJACENT PATHWAYS SHOWN FOR INFORMATIONAL PURPOSES ONLY

PRUNE EXISTING TREES, TYP.

C+G EXISTING LANDSCAPE UNDERSTORY AND VINES. REMOVE PLANT MATERIAL FROM FENCE

EXISTING TREE AND STUMP TO BE REMOVED AND DISPOSED OF, AND HOLES FILLED WITH APPROVED LOAM OR AMENDED TOPSOIL, TYP.

EXISTING TREE AND STUMP TO BE REMOVED AND DISPOSED OF

REFER TO ELECTRICAL SERIES FOR REMOVAL OR PROTECTION OF EXISTING LIGHTING, TYP.

SEE CIVIL SHEET C1 FOR PARKING LOT DEMOLITION

ADJUST TREE PROTECTION FENCING TO PERMIT INSTALLATION OF PROPOSED SITE WORK AT LANDSCAPE ARCHITECT'S DIRECTION

R+D EXISTING TRAFFIC SIGN AND ALL ASSOCIATED FOOTINGS, TYP.

R+D EXISTING TRASH BINS AND ALL ASSOCIATED FOOTINGS, TYP.

R+D EXISTING BOLLARDS AND ALL ASSOCIATED FOOTINGS, TYP.

R+D EXISTING TRASH BINS AND ALL ASSOCIATED FOOTINGS, TYP.

PRUNE EXISTING TREES, TYP.

PRUNE EXISTING TREES, TYP.

P+P EXISTING CHAIN LINK FENCE, TYP.

EXISTING TREE AND STUMP TO BE REMOVED AND DISPOSED OF, AND HOLES FILLED WITH APPROVED LOAM OR AMENDED TOPSOIL, TYP.

REFER TO ELECTRICAL SERIES FOR REMOVAL OR PROTECTION OF EXISTING LIGHTING, TYP.

P+P EXISTING CHAIN LINK FENCE, TYP.

C+G EXISTING LANDSCAPE UNDERSTORY AND VINES. REMOVE PLANT MATERIAL FROM FENCE

PRUNE SUCKERS AT BASE OF TREE, TYP.

C+G EXISTING LANDSCAPE UNDERSTORY AND VINES. REMOVE PLANT MATERIAL FROM FENCE

TREE PROTECTION FENCE, TYP.

PRUNE EXISTING TREES, TYP.

REFER TO ELECTRICAL SERIES FOR REMOVAL OR PROTECTION OF EXISTING LIGHTING , TYP.

REFER TO CIVIL SERIES FOR REMOVAL OR PROTECTION OF CATCH BASINS, TYP.

P+P EXISTING GRANITE LANDSCAPE EDGE, TYP.

EROSION CONTROL FILTER TUBE, TYP.

R+D EXISTING BENCHES AND ALL ASSOCIATED FOOTINGS/BASE COURSES

R+D EXISTING METAL POSTS AND ALL ASSOCIATED FOOTINGS, TYP.

R+D EXISTING BENCHES AND ALL ASSOCIATED FOOTINGS/BASE COURSES

R+D EXISTING METAL POSTS AND ALL ASSOCIATED FOOTINGS, TYP.

PRESERVE AND PROTECT EXISTING SHRUB PLANTING. EXTENTS OF PLANTING TO REMAIN TO BE V.I.F. BY LANDSCAPE ARCHITECT

R+D EXISTING BIT. CONC. PAVEMENT AND ALL ASSOCIATED BASE COURSES, TYP.

R+D EX. GRANITE PAVING AND ALL ASSOCIATED BASE COURSES

R+D EX. CONC. PAVERS INCL. STEEL EDGING AND ALL ASSOCIATED BASE COURSES

CLEAR + GRUB EXISTING LAWN AND MISCELLANEOUS VEGETATION, TYP.

PRUNE EXISTING TREE

EXISTING TREE AND STUMP TO BE REMOVED AND DISPOSED OF, AND HOLES FILLED WITH APPROVED LOAM OR AMENDED TOPSOIL, TYP.

PRESERVE AND PROTECT EXISTING GATE AND POSTS

LIMIT OF WORK

PRESERVE AND PROTECT EXISTING VEHICULAR CURB, TYP.

EXISTING PEDESTRIAN BRIDGE TO REMAIN AND BE PROTECTED

SEE CIVIL SHEET C1 FOR PARKING LOT DEMOLITION

LIMIT OF WORK, TYP.

PRESERVE AND PROTECT EXISTING SIGN

PRESERVE AND PROTECT EXISTING GRANITE CURB TO REMAIN, TYP.

EROSION CONTROL FILTER TUBE, TYP.

EXISTING TREE TO REMAIN, TREE PROTECTION FENCE AND TREE TRUNK PROTECTION, TYP.

TREE PROTECTION FENCING, TYP.

PRUNE SUCKERS AT BASE OF TREE, TYP.

EXISTING TREE AND STUMP TO BE REMOVED AND DISPOSED OF, AND HOLES FILLED WITH APPROVED LOAM OR AMENDED TOPSOIL, TYP.

PRUNE EXISTING TREE, TYP.

EXISTING PEDESTRIAN BRIDGE TO REMAIN AND BE PROTECTED

PRUNE SUCKERS AT BASE OF TREE, TYP.

PRESERVE AND PROTECT EXISTING VEHICULAR CURB, TYP.

REMOVE AND DISPOSE OF EXISTING STEPS AND GRAVEL

PRESERVE AND PROTECT EXISTING SIGN

REFER TO ELECTRICAL SERIES FOR REMOVAL OR PROTECTION OF EXISTING LIGHTING, TYP.

R+D EXISTING BENCHES, METAL POSTS, AND ALL ASSOCIATED FOOTINGS/BASE COURSES

PRUNE SUCKERS AT BASE, TYP.

EXISTING TREE AND STUMP TO BE REMOVED AND DISPOSED OF, AND HOLES FILLED WITH APPROVED LOAM OR AMENDED TOPSOIL, TYP.

REMOVE, SALVAGE, AND DELIVER EXISTING GRANITE BLOCK SEATWALL. DISPOSE OF ALL ASSOCIATED FOOTINGS/BASE COURSES

R+D EXISTING BENCH AND ALL ASSOCIATED FOOTINGS/BASE COURSES

C+G EXISTING LAWN AND MISCELLANEOUS VEGETATION, TYP.

C+G EXISTING LAWN AND MISCELLANEOUS VEGETATION, TYP.

PRUNE EXISTING TREE, TYP.

R+D EXISTING BIT. CONC. PAVEMENT AND ALL ASSOCIATED BASE COURSES, TYP.

R+D EXISTING BENCH AND ALL ASSOCIATED FOOTINGS/BASE COURSES

PRUNE EXISTING TREE, TYP.

ASSESSORS ID: 067-749-118 N/F COMMONWEALTH OF MASSACHUSETTS BOOK 9921 PAGE 504

ASSESSORS ID: 067-749-110 N/F COMMONWEALTH OF MASSACHUSETTS BOOK 9921 PAGE 504

MATCH LINE

SEE DRAWING NO. L-2 FOR NOTES

N

SCALE: 1" = 20'

10 0 10 20 40

BROWN, RICHARDSON + ROWE

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dcr Massachusetts

Foth

Stantec

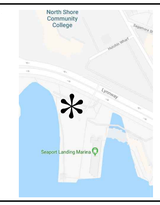
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45 Blue Sky Drive, 3rd Floor
Burlington, MA 01803
Tel: 781.221.1000
www.stantec.com

VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
WILLIAM D ANDREWS
REGISTERED LANDSCAPE ARCHITECT
NO. 4239
11/7/25

DRAWING TITLE:

SITE PREPARATION & DEMOLITION SHEET 1 OF 3

ACCESSION #:104938x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

SCALE: 1"=20'-0"

SUBMISSION: BID SET

DRAWING NO.

L-1

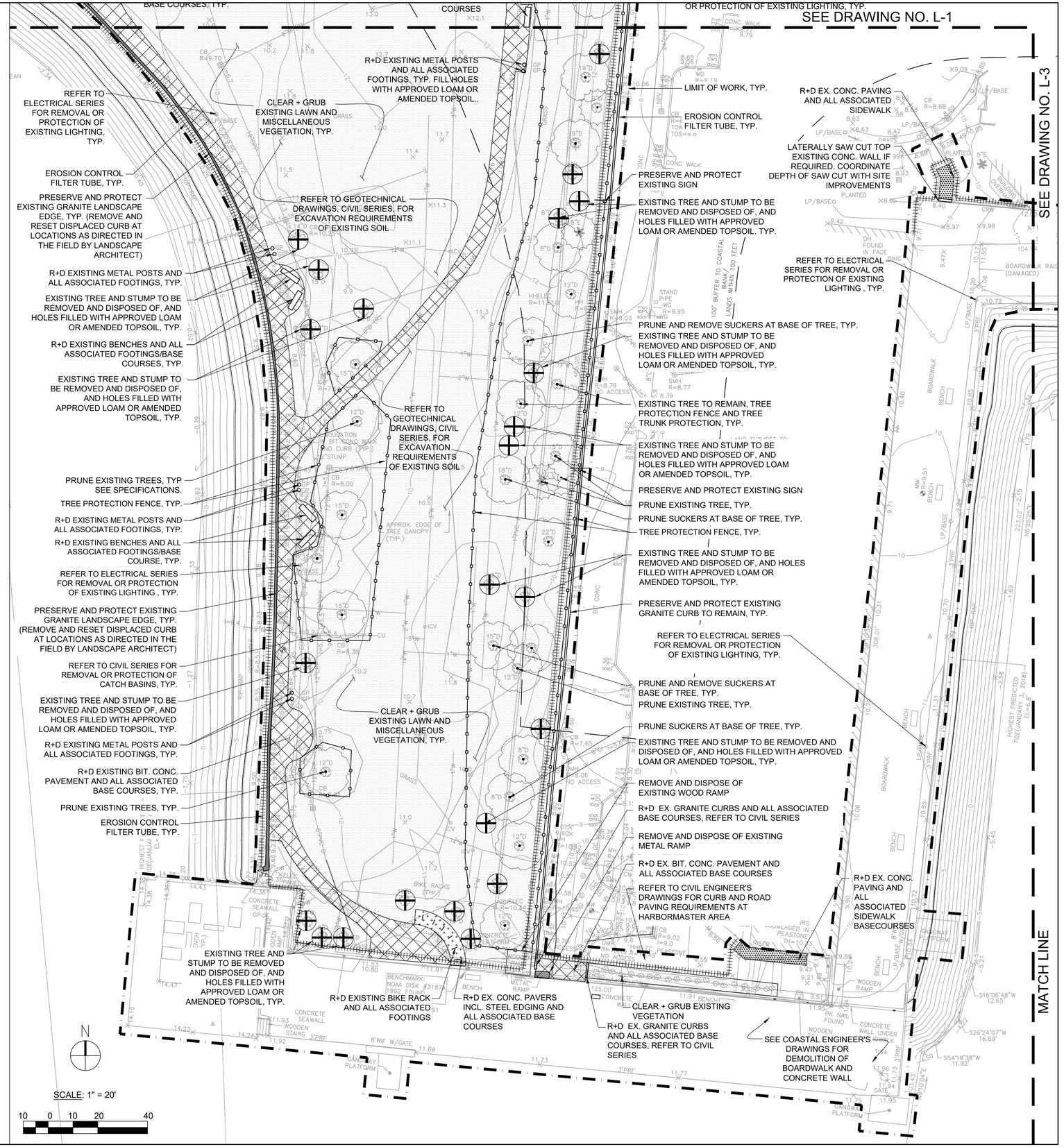
GENERAL SITE PREPARATION NOTES:

1. EXISTING CONDITIONS FIELD SURVEY AS COMPILED BY DAWOOD: 325 WOOD ROAD, SUITE 109; BRAINTREE, MA 02184; 781-380-7766.
2. REFER TO CIVIL SERIES FOR VEHICULAR CURBING, PARKING LOT, UTILITY, DRAINAGE SYSTEM, LIGHTING, AND ELECTRICAL PROTECTION AND DEMOLITION.
3. REFER TO MARINE ENGINEER SERIES FOR WATERFRONT BOARDWALK AND STRUCTURAL PROTECTION AND DEMOLITION.
4. REFER TO GEOTECHNICAL SERIES FOR SOIL EXCAVATION REQUIREMENTS
5. LOCATE STOCKPILE FOR EXISTING MATERIALS TO BE SALVAGED WITHIN LIMIT OF WORK. CONTRACTOR TO RECEIVE APPROVAL FROM THE DEPARTMENT OF CONSERVATION AND RECREATION FOR ANY PROPOSED LOCATION OF STOCKPILE PRIOR TO COMMENCEMENT OF WORK.
6. REFER TO SPECIFICATIONS FOR DEMO & REMOVALS AND EARTHWORK.
7. THE CONTRACTOR MUST NOTIFY "DIG SAFE", THE CITY OF LYNN WATER & SEWER COMMISSION (781-596-2400), LYNN DPW, AND ENGINEERING DEPARTMENT PRIOR TO THE START OF ANY ON-SITE WORK.
8. WHERE PROPOSED MEETS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE SAWCUT TO OBTAIN A STABLE VERTICAL FACE.
9. THE CONTRACTOR SHALL PROVIDE METHODS USED DURING DEWATERING OPERATIONS AND FOR STORM WATER RUNOFF SO AS NOT TO ALLOW SILT OR DEBRIS TO ENTER EXISTING OR NEW FACILITIES OR CREATE NUISANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING EXISTING OR NEW FACILITIES IF SILTATION OCCURS DUE TO THE CONTRACTOR'S OPERATIONS.
10. THE CONTRACTOR SHALL SUPPLY ALL TEMPORARY SHORING AND DEWATERING FOR WORK RELATED TO THE COMPLETION OF THE PROJECT AT NO ADDITIONAL COST.
11. DAMAGE TO PROPERTY BEYOND THE WORK LIMITS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE, SUBJECT TO THE REVIEW OF THE LANDSCAPE ARCHITECT.
12. CONTRACTOR SHALL PROVIDE CAREFUL AND CONTINUOUS PROTECTION OF ALL EXISTING MONUMENTS ON SITE DURING ALL CONSTRUCTION ACTIVITIES.
13. REFER TO SPECIFICATIONS FOR PUBLIC ACCESS REQUIREMENTS TO SITE AND SURROUNDING SIDEWALKS DURING CONSTRUCTION.
14. REFER TO PEST CONTROL SPECIFICATION 01561 BEFORE DEMOLITION AND REMOVALS.
15. ALL STREET FURNISHINGS, CROSSWALKS, PEDESTRIAN RAMPS, AND UTILITIES LOCATED OUTSIDE OF THE LIMIT OF WORK LINE ARE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
16. ALL EXISTING SURFACE FEATURES TO REMAIN SHALL BE ADJUSTED TO FINAL GRADE AS SHOWN ON GRADING PLAN, L-10 - L-12.
17. THE CONSTRUCTION STATION POINT AS SHOWN ON CONTRACT DRAWINGS SHALL BE LAID OUT BY A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS.
18. REMOVE AND DISPOSE OF EXISTING IRRIGATION SYSTEM.
19. RELOCATE TREE PROTECTION FENCE AS REQUIRED TO FACILITATE INSTALLATION OF SITE IMPROVEMENTS.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN FIELD VERIFICATION OF ALL ELEMENTS SHOWN ON THE EXISTING CONDITIONS PLAN DURING BIDDING AND CONSTRUCTION. ACCURACY OF THE EXISTING CONDITIONS PLAN HAS NOT BEEN FIELD VERIFIED BY OWNER OR PROJECT TEAM AND ELEMENTS SHOWN ON THE PLAN WHICH VARY FROM THOSE EXISTING IN THE FIELD EITHER IN TERMS OF LOCATION OR GRADE ARE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE. IF INACCURACIES AFFECT CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT TEAM AND OWNER BEFORE UNDERTAKING FURTHER ACTION AND A DISCUSSION WILL BE HELD TO DETERMINE A RESOLUTION

LEGEND

- REMOVE AND DISPOSE OF EXISTING BITUMINOUS CONCRETE PAVEMENT AND ALL ASSOCIATED BASE COURSES
- REMOVE AND DISPOSE OF EXISTING CONCRETE PAVERS INCLUDING STEEL EDGING AND ALL ASSOCIATED BASE COURSES
- REMOVE AND DISPOSE OF EXISTING CONCRETE PAVING AND ALL ASSOCIATED BASE COURSES
- REMOVE AND DISPOSE OF EXISTING GRANITE PAVING AND ALL ASSOCIATED BASE COURSES
- PRESERVE AND PROTECT EXISTING GRANITE LANDSCAPE EDGE
- PRESERVE AND PROTECT EXISTING GRANITE CURB
- PRESERVE AND PROTECT EXISTING PEDESTRIAN BRIDGE
- CLEAR + GRUB EXISTING LAWN AND MISCELLANEOUS VEGETATION, TYP.
- EXISTING TREE AND STUMP TO BE REMOVED AND DISPOSED OF, FILL HOLES WITH APPROVED LOAM OR AMENDED TOPSOIL, TYP.
- EXISTING TREE TO REMAIN, TREE PROTECTION FENCE AND TREE TRUNK PROTECTION (1 / LD-5)
- FILTER TUBE FOR EROSION CONTROL (2 / LD-5)
- REMOVE AND DISPOSE OF EXISTING PARK BENCH AND ALL ASSOCIATED FOOTINGS/BASE COURSES
- REMOVE AND DISPOSE OF EXISTING SIGN AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING METAL POSTS AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING BOLLARDS AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING TRASH BINS AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING BIKE RACK AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE AND ALL ASSOCIATED FOOTINGS
- REMOVE, SALVAGE, AND DELIVER EXISTING GRANITE BLOCK SEATWALL. DISPOSE OF ALL ASSOCIATED FOOTINGS/BASE COURSES

EX.	EXISTING
CONC.	CONCRETE
C+G	CLEAR AND GRUB
P+P	PRESERVE AND PROTECT
R+D	REMOVE AND DISPOSE
TYP.	TYPICAL



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dcr Massachusetts

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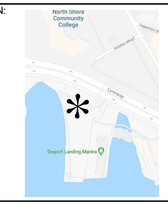
Stantec
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45 Blue Sky Drive, 3rd Floor
Burlington, MA 01803
Tel: 781.221.1000
www.stantec.com

VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
WILLIAM D ANDREWS
REGISTERED LANDSCAPE ARCHITECT
NO. 4259
11/7/25

DRAWING TITLE:

SITE PREPARATION & DEMOLITION
SHEET 2 OF 3

ACCESSION #:104939x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

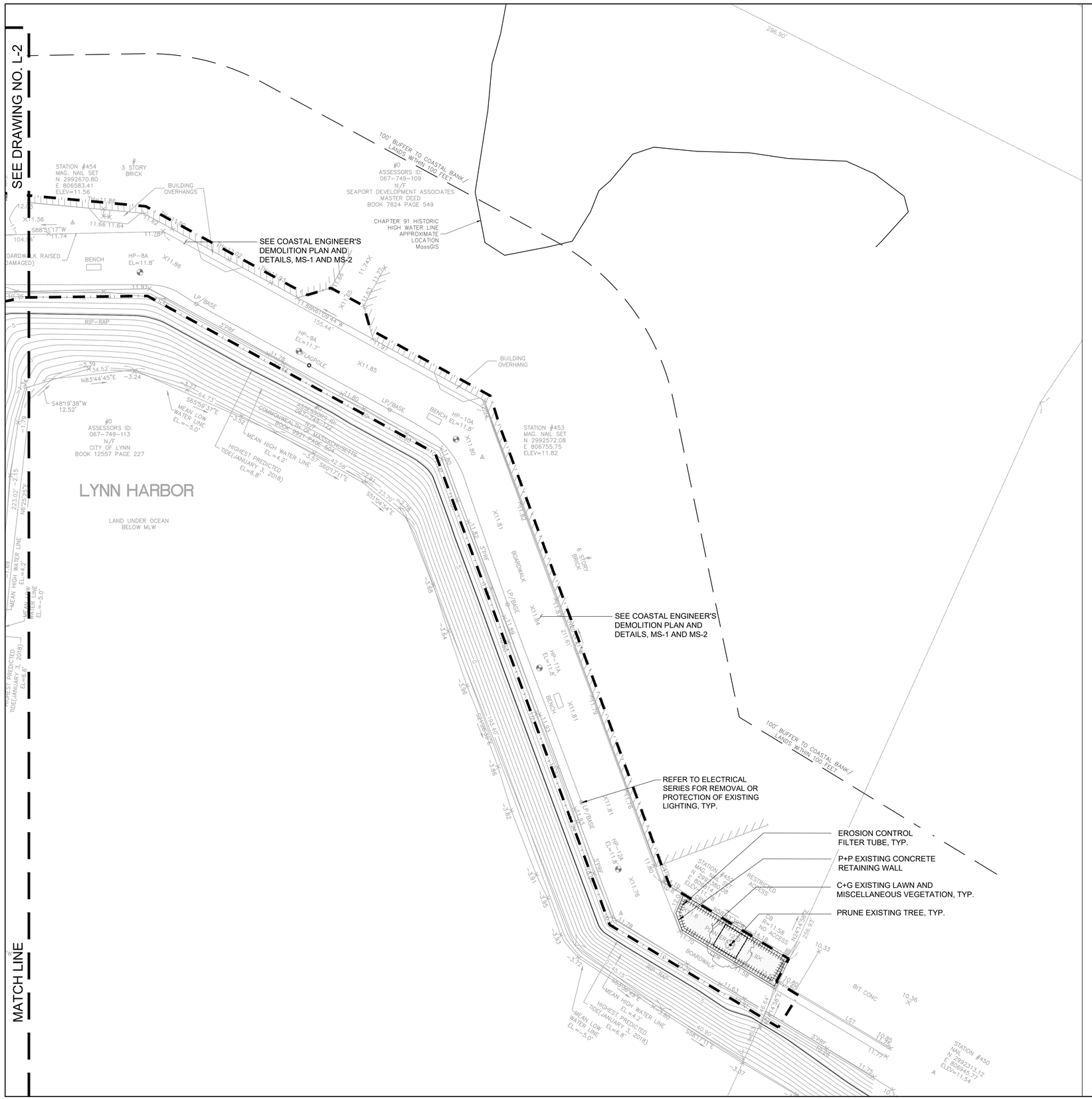
DATE: NOVEMBER 12, 2025

SCALE: 1"=20'-0"

SUBMISSION: BID SET

DRAWING NO.

L-2



LEGEND

- REMOVE AND DISPOSE OF EXISTING BITUMINOUS CONCRETE PAVEMENT AND ALL ASSOCIATED BASE COURSES
- REMOVE AND DISPOSE OF EXISTING CONCRETE PAVERS INCLUDING STEEL EDGING AND ALL ASSOCIATED BASE COURSES
- REMOVE AND DISPOSE OF EXISTING CONCRETE PAVING AND ALL ASSOCIATED BASE COURSES
- REMOVE AND DISPOSE OF EXISTING GRANITE PAVING AND ALL ASSOCIATED BASE COURSES
- PRESERVE AND PROTECT EXISTING GRANITE LANDSCAPE EDGE
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- PRESERVE AND PROTECT EXISTING PEDESTRIAN BRIDGE
- CLEAR + GRUB EXISTING LAWN AND MISCELLANEOUS VEGETATION, TYP.
- EXISTING TREE AND STUMP TO BE REMOVED AND DISPOSED OF, FILL HOLES WITH APPROVED LOAM OR AMENDED TOPSOIL, TYP.
- EXISTING TREE TO REMAIN, TREE PROTECTION FENCE AND TREE TRUNK PROTECTION (1 / LD-5)
- FILTER TUBE FOR EROSION CONTROL (2 / LD-5)
- REMOVE AND DISPOSE OF EXISTING PARK BENCH AND ALL ASSOCIATED FOOTINGS/BASE COURSES
- REMOVE AND DISPOSE OF EXISTING SIGN AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING METAL POSTS AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING BOLLARDS AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING TRASH BINS AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING BIKE RACK AND ALL ASSOCIATED FOOTINGS
- REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE AND ALL ASSOCIATED FOOTINGS
- REMOVE, SALVAGE, AND DELIVER EXISTING GRANITE BLOCK SEATWALL. DISPOSE OF ALL ASSOCIATED FOOTINGS/BASE COURSES

EX.	EXISTING
CONC.	CONCRETE
C+G	CLEAR AND GRUB
P+P	PRESERVE AND PROTECT
R+D	REMOVE AND DISPOSE
TYP.	TYPICAL

N

SCALE: 1" = 20'

10 0 10 20 40

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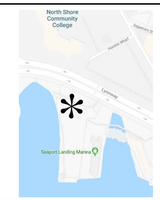
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

SITE PREPARATION & DEMOLITION
SHEET 3 OF 3

ACCESSION #:104940x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

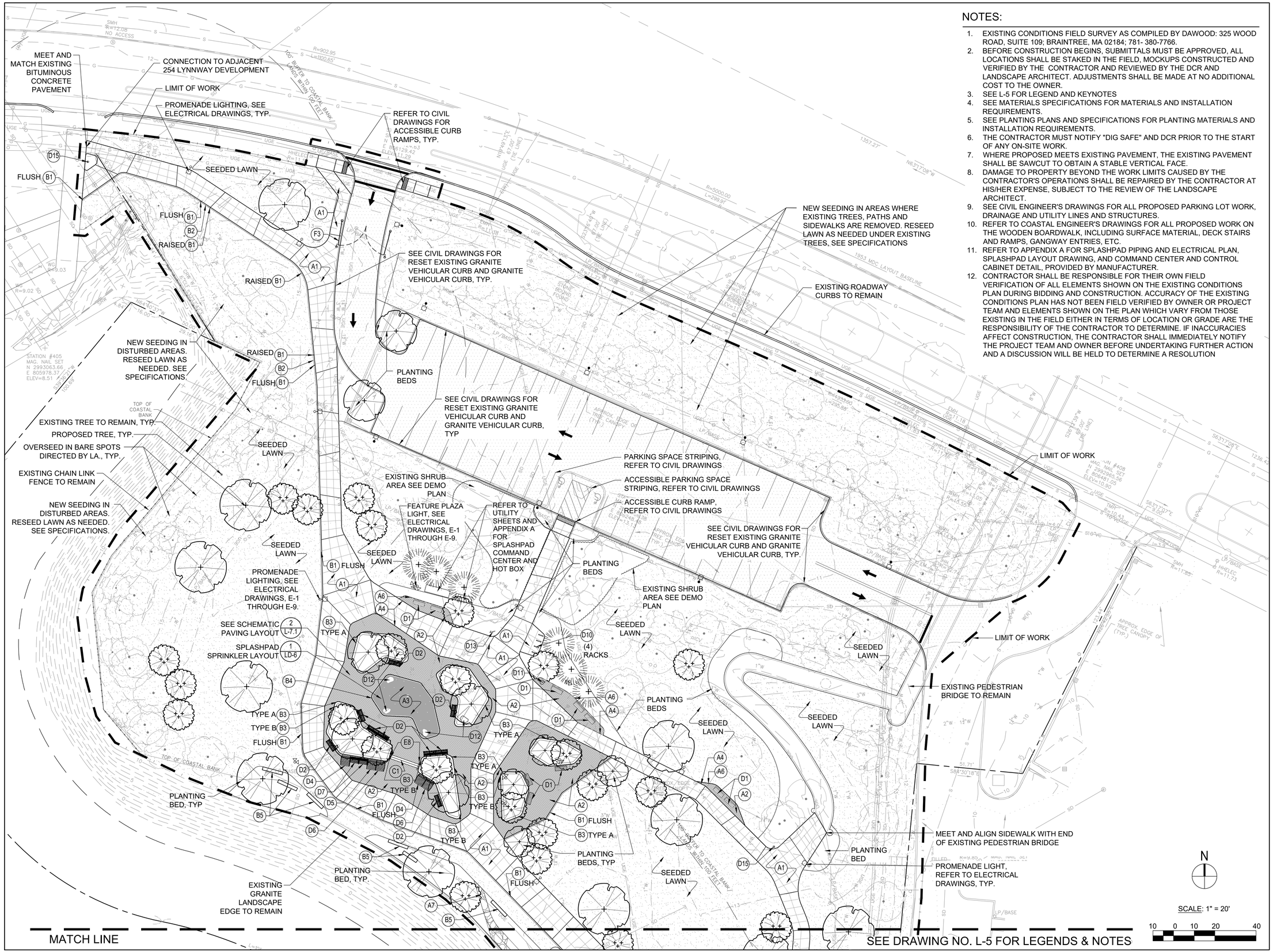
DATE: NOVEMBER 12, 2025

SCALE: 1"=20'-0"

SUBMISSION: BID SET

DRAWING NO.

L-3



NOTES:

1. EXISTING CONDITIONS FIELD SURVEY AS COMPILED BY DAWOOD: 325 WOOD ROAD, SUITE 109; BRAINTREE, MA 02184; 781- 380-7766.
2. BEFORE CONSTRUCTION BEGINS, SUBMITTALS MUST BE APPROVED, ALL LOCATIONS SHALL BE STAKED IN THE FIELD, MOCKUPS CONSTRUCTED AND VERIFIED BY THE CONTRACTOR AND REVIEWED BY THE DCR AND LANDSCAPE ARCHITECT. ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
3. SEE L-5 FOR LEGEND AND KEYNOTES
4. SEE MATERIALS SPECIFICATIONS FOR MATERIALS AND INSTALLATION REQUIREMENTS.
5. SEE PLANTING PLANS AND SPECIFICATIONS FOR PLANTING MATERIALS AND INSTALLATION REQUIREMENTS.
6. THE CONTRACTOR MUST NOTIFY "DIG SAFE" AND DCR PRIOR TO THE START OF ANY ON-SITE WORK.
7. WHERE PROPOSED MEETS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE SAWCUT TO OBTAIN A STABLE VERTICAL FACE.
8. DAMAGE TO PROPERTY BEYOND THE WORK LIMITS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE, SUBJECT TO THE REVIEW OF THE LANDSCAPE ARCHITECT.
9. SEE CIVIL ENGINEER'S DRAWINGS FOR ALL PROPOSED PARKING LOT WORK, DRAINAGE AND UTILITY LINES AND STRUCTURES.
10. REFER TO COASTAL ENGINEER'S DRAWINGS FOR ALL PROPOSED WORK ON THE WOODEN BOARDWALK, INCLUDING SURFACE MATERIAL, DECK STAIRS AND RAMPS, GANGWAY ENTRIES, ETC.
11. REFER TO APPENDIX A FOR SPLASHPAD PIPING AND ELECTRICAL PLAN, SPLASHPAD LAYOUT DRAWING, AND COMMAND CENTER AND CONTROL CABINET DETAIL, PROVIDED BY MANUFACTURER.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN FIELD VERIFICATION OF ALL ELEMENTS SHOWN ON THE EXISTING CONDITIONS PLAN DURING BIDDING AND CONSTRUCTION. ACCURACY OF THE EXISTING CONDITIONS PLAN HAS NOT BEEN FIELD VERIFIED BY OWNER OR PROJECT TEAM AND ELEMENTS SHOWN ON THE PLAN WHICH VARY FROM THOSE EXISTING IN THE FIELD EITHER IN TERMS OF LOCATION OR GRADE ARE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE. IF INACCURACIES AFFECT CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT TEAM AND OWNER BEFORE UNDERTAKING FURTHER ACTION AND A DISCUSSION WILL BE HELD TO DETERMINE A RESOLUTION

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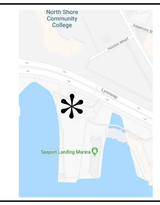
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Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

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DRAWING TITLE:

SITE MATERIALS PLAN
SHEET 1 OF 3

ACCESSION #:104941

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

SCALE: 1"=20'-0"

SUBMISSION: BID SET

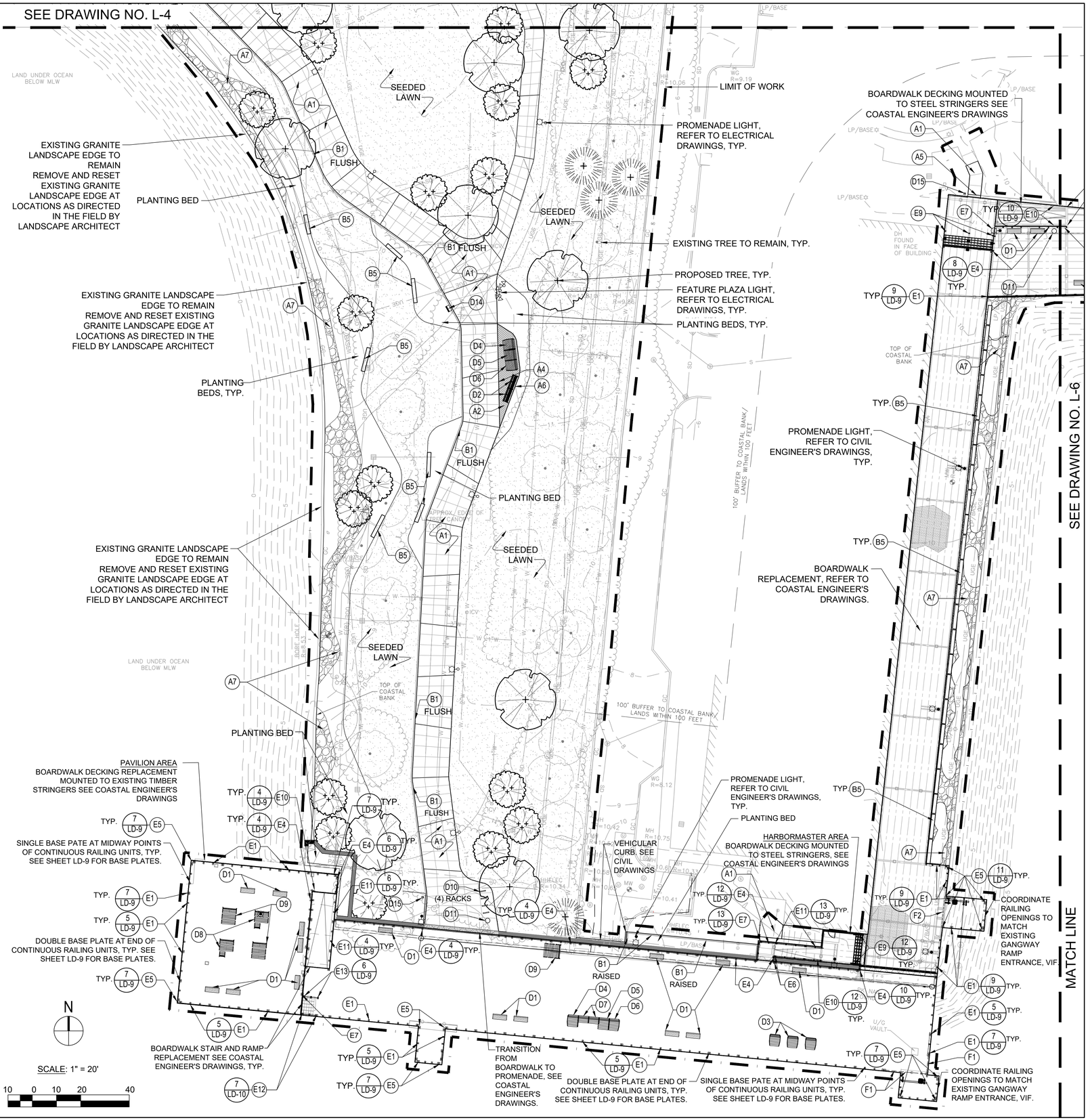
DRAWING NO.

L-4

MATERIALS LEGEND:

SYMBOL	TYPE	DESCRIPTION	DETAIL
SITE PAVING + EDGING			
A1		PEDESTRIAN CONCRETE PAVING	1 LD-1
A2		PRECAST CONCRETE PAVERS	2 LD-1
A3		SPLASHPAD SURFACING	3 LD-1
A4		EDGE AT PEDESTRIAN CONCRETE PAVING AND PRECAST CONCRETE PAVER	4 LD-1
A5		PEDESTRIAN CONCRETE PAVING AT BOARDWALK INTERFACE	5 LD-1
A6		METAL EDGE AT PAVERS	6 LD-1
A7		FIELDSTONE AND COASTAL PLANTING AT BOARDWALK AND RAIN GARDEN	7 LD-1 / 8 LD-1
CURBS + WALLS			
B1		GRANITE LANDSCAPE CURB (STRAIGHT AND RADIAL/RAISED AND FLUSH)	1 LD-2
B2		GRANITE TRANSITIONAL CURB (STRAIGHT AND RADIAL)	1 LD-2
B3		ORNAMENTAL GRANITE CURB TYPE A + TYPE B (STRAIGHT AND RADIAL)	2 LD-2
B4		GRANITE EDGE AT SPLASHPAD (STRAIGHT AND RADIAL)	3 LD-2
B5		RECLAIMED GRANITE BLOCK	4 LD-2
STEPS			
C1		GRANITE STEPS	5 LD-2
SITE FURNISHINGS			
D1		PROMENADE PARK BENCH	1 LD-3
D2		FEATURE BENCH (SINGLE AND DOUBLE)	2 LD-3
D3		LOUNGER	3 LD-3
D4		LOUNGER START MODULE	4 LD-3
D5		LOUNGER ADD-ON MODULE	4 LD-3
D6		LOUNGER END MODULE	4 LD-3
D7		LOUNGER SHORT ADD-ON MODULE	4 LD-3
D8		PICNIC TABLE GROUP (WHEELCHAIR ACCESSIBLE)	6 LD-3
D9		PICNIC TABLE GROUP	5 LD-3
D10		BIKE RACK	9 LD-3
D11		TRASH RECEPTACLE	7 LD-3
D12		LANDSCAPE BOULDER	8 LD-3
D13		PARK SIGN	1 LD-4
D14		INTERPRETIVE SIGN	2 LD-4
D15		WAYFINDING SIGN	3 LD-4
RAILINGS			
E1		WATERSIDE BARRIER WITH LEANING RAIL	1 LD-7, 5 LD-9, 7 LD-9, 9 LD-9, 11 LD-9
E4		LANDSIDE BARRIER	1 LD-8, 4 LD-9, 6 LD-9, 8 LD-9, 10 LD-9, 12 LD-9, 13 LD-9
E5		WATERSIDE BARRIER AT CORNERS	1 LD-9, 7 LD-9, 11 LD-9
E7		LANDSIDE BARRIER AT CORNERS	3 LD-9, 6 LD-9, 10 LD-9, 13 LD-9
E8		HANDRAIL AT PLAZA GRANITE STEPS	1 LD-10
E9		HANDRAIL AT BOARDWALK STAIR	2 LD-10, 4 LD-9, 8 LD-9, 12 LD-9
E10		HANDRAIL AT BOARDWALK RAMP	3 LD-10, 4 LD-9, 6 LD-9, 8 LD-9, 10 LD-9, 12 LD-9
E11		LANDSIDE BARRIER AT BOARDWALK RAMP WITH HANDRAIL	1 LD-11, 4 LD-9, 6 LD-9, 8 LD-9, 10 LD-9, 12 LD-9
E12		WATERSIDE BARRIER AT PAVILION STAIR WITH HANDRAIL	4 LD-10, 5 LD-9, 7 LD-9
E13		LANDSIDE BARRIER AT PAVILION STAIR WITH HANDRAIL	5 LD-10, 4 LD-9, 6 LD-9
GATES			
F1		STEEL MARINA GATE 1	1 LD-12
F2		STEEL MARINA GATE 2	2 LD-12
F3		VEHICULAR PARKING LOT GATE	3 LD-12

SEE DRAWING NO. L-4



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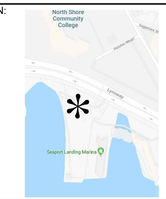
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WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

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DRAWING TITLE:

SITE MATERIALS PLAN
SHEET 2 OF 3

ACCESSION #:104942x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

SCALE: 1"=20'-0"

SUBMISSION: BID SET

DRAWING NO.

L-5

SEE DRAWING NO. L-5

MATCH LINE

E10 / 8 LD-9 TYP.

STATION #454
MAG. NAIL SET
N 2992670.80
E 806583.41
ELEV=11.56

BOARDWALK REPLACEMENT OVER EXISTING TIMBER SUBSTRUCTURE, REFER TO COASTAL ENGINEER'S DRAWINGS.

100' BUFFER TO COASTAL BANK / LANDS WITHIN 100 FEET

CHAPTER 91 HISTORIC HIGH WATER LINE APPROXIMATE LOCATION MassGIS

E4 / 8 LD-9 TYP.

D1

FLAGPOLE, REFER TO COASTAL ENGINEER'S DRAWINGS.

RIP-RAP

7 LD-9 E5

TYP. 5 LD-9 E1

PROMENADE LIGHT, REFER TO CIVIL DRAWINGS, TYP.

STATION #453
MAG. NAIL SET
N 2992572.08
E 806755.75
ELEV=11.82

DOUBLE BASE PLATE AT END OF CONTINUOUS RAILING UNITS, TYP. SEE SHEET LD-9 FOR BASE PLATES.

LAND UNDER OCEAN BELOW MLW

SINGLE BASE PATE AT MIDWAY POINTS OF CONTINUOUS RAILING UNITS, TYP. SEE SHEET LD-9 FOR BASE PLATES.

7 LD-9 E5

BOARDWALK REPLACEMENT OVER EXISTING TIMBER SUBSTRUCTURE, REFER TO COASTAL ENGINEER'S DRAWINGS.

TYP 5 LD-9 E1

D4

D7

D6

D1

D3

D1

DOUBLE BASE PLATE AT END OF CONTINUOUS RAILING UNITS, TYP. SEE SHEET LD-9 FOR BASE PLATES.

SINGLE BASE PATE AT MIDWAY POINTS OF CONTINUOUS RAILING UNITS, TYP. SEE SHEET LD-9 FOR BASE PLATES.

7 LD-9 E5

TYP. 5 LD-9 E1

STATION #452
MAG. NAIL SET
N 2992380.08
E 806814.11
ELEV=11.78

PLANTING BED

D15

MEET AND MATCH EXISTING TIMBER BOARDWALK AT PROPERTY LINE

WATERSIDE BARRIER CONNECTION TO EXISTING RAILING 2 LD-11

MEET EXISTING RAILING ON ADJACENT PROPERTY

100' BUFFER TO COASTAL BANK / LANDS WITHIN 100 FEET

STATION #450
NAIL
N 2992231.12
E 806943.77
ELEV=11.54

STATION #451
MAG. NAIL SET
N 2992565.12
E 807078.26
ELEV=11.11

+57.01

+90

103+00

N

SCALE: 1" = 20'

10 0 10 20 40

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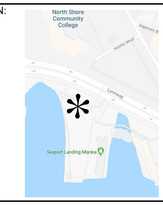
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DRAWING TITLE:

SITE MATERIALS PLAN
SHEET 3 OF 3

ACCESSION #:104943x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

SCALE: 1"=20'-0"

SUBMISSION: BID SET

DRAWING NO.

L-6

MEET AND MATCH EXISTING PATH EDGES ON ADJACENT PROPERTY.

LIMIT OF WORK

3 EQ. CONC. SCORE SEGMENTS ALONG EJ, TYP.

EQ. CONC. SCORE SEGMENTS BETWEEN EJs, TYP.

REFER TO CIVIL DRAWINGS FOR PEDESTRIAN RAMP LAYOUT

REFER TO CIVIL DRAWINGS FOR RAMP, DRIVEWAY AND PARKING LOT LAYOUT

3 EQ. CONC. SCORE SEGMENTS ALONG EJ, TYP.

EQ. CONC. SCORE SEGMENTS BETWEEN EJs, TYP.

SEE PLAZA ENLARGEMENT PLAN FOR SPLASH PAD AREA ON SHEET L-7.1

LIMIT OF WORK

MEET EXISTING PEDESTRIAN RAMP, V.I.F.

MATCH LINE

SEE DRAWING NO. L-8 FOR LEGENDS & NOTES

N

SCALE: 1" = 20'

10 0 10 20 40

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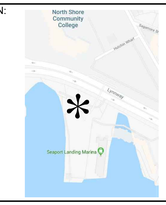
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KEY PLAN:



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DRAWING TITLE:

SITE LAYOUT PLAN SHEET 1 OF 4

ACCESSION #:104944x

DESIGNED: DA

DRAWN: JL/AN/HV CHECKED: DA

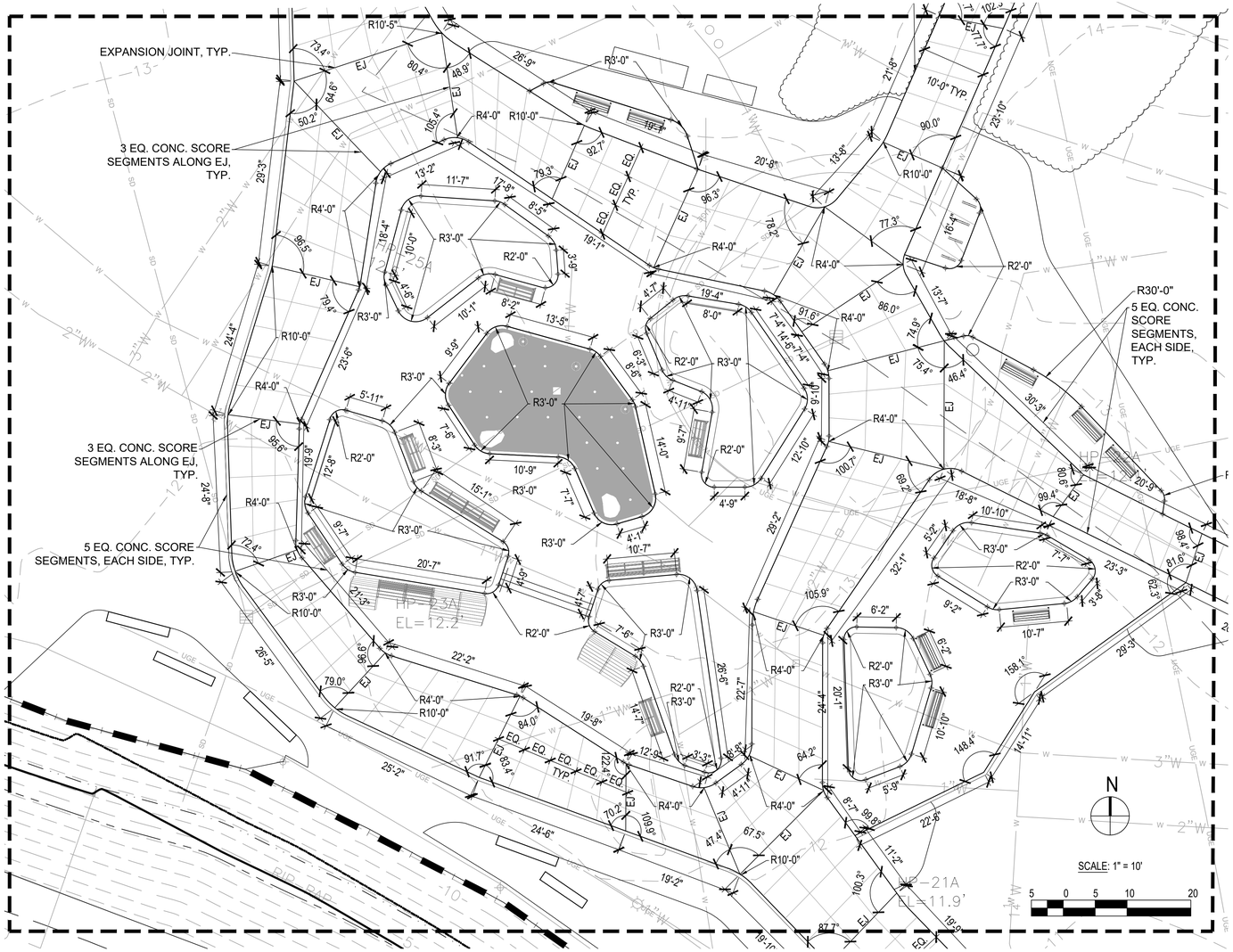
DATE: NOVEMBER 12, 2025

SCALE: 1"=20'-0"

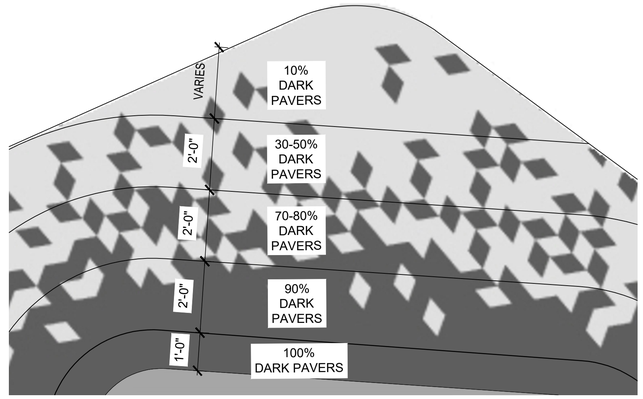
SUBMISSION: BID SET

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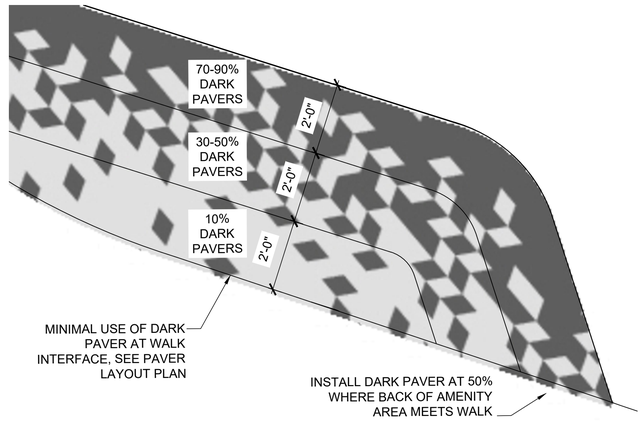
L-7



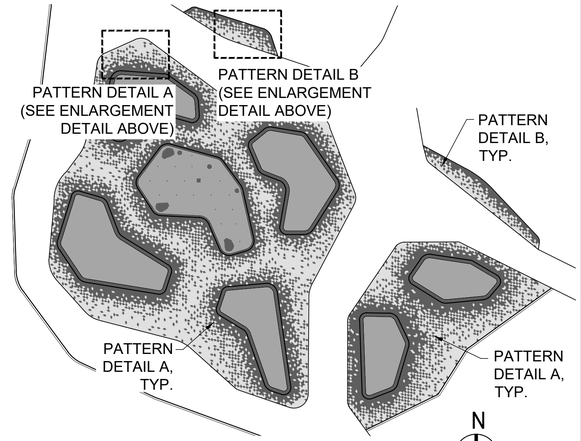
1 PLAZA ENLARGEMENT PLAN
SCALE: 1" = 10'-0"



PATTERN DETAIL A (AT PRIMARY SPLASH PAD AREA)
SCALE: 1"=2'



PATTERN DETAIL B (AT SECONDARY AREAS)
SCALE: 1"=2'



NOTE: PLAN IS INTENDED TO SHOW INTENDED DISTRIBUTION OF ONYX BLACK AND GRAY NICKEL PAVERS PER SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS REGARDING MOCKUPS. FINAL LAYOUT AND PATTERN TO BE VERIFIED IN FIELD BY LANDSCAPE ARCHITECT.

2 PLAZA PAVING PATTERN PLAN (SHOWN SCHEMATICALLY)
SCALE: 1" = 20'-0"

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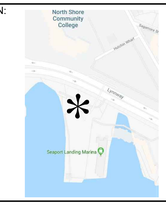
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KEY PLAN:



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STAMPED AND SIGNED:



DRAWING TITLE:

SITE LAYOUT PLAN ENLARGEMENT SHEET 2 OF 4

ACCESSION #:104945x

DESIGNED: DA

DRAWN: JL/AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

SCALE:

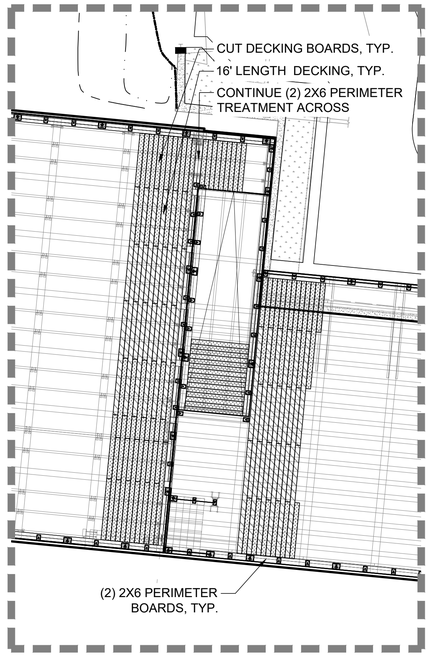
SUBMISSION: BID SET

DRAWING NO.

L-7.1

NOTES:

1. EXISTING CONDITIONS FIELD SURVEY AS COMPILED BY DAWOOD, 325 WOOD ROAD, SUITE 109; BRAINTREE, MA 02184; 781- 380-7766.
2. ALL DIMENSION LINES ARE EITHER PARALLEL OR PERPENDICULAR TO LINES FROM WHICH THEY ARE DRAWN UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
3. BEFORE CONSTRUCTION BEGINS, SUBMITTALS MUST BE APPROVED, ALL LOCATIONS SHALL BE STAKED IN THE FIELD, MOCKUPS CONSTRUCTED AND VERIFIED BY THE CONTRACTOR AND REVIEWED BY THE DCR AND LANDSCAPE ARCHITECT. ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
4. ALL MEASUREMENTS FOR RAILING FABRICATION (ALL TYPES) SHALL BE VERIFIED IN FIELD AND REVIEWED WITH LANDSCAPE ARCHITECT PRIOR TO FABRICATION AND SHOP DRAWINGS, SEE SPECIFICATIONS.
5. SEE MATERIALS PLAN AND SPECIFICATIONS FOR MATERIALS AND INSTALLATION REQUIREMENTS.
6. THE CONTRACTOR MUST NOTIFY "DIG SAFE" AND DCR PRIOR TO THE START OF ANY ON-SITE WORK.
7. WHERE PROPOSED MEETS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE SAWCUT TO OBTAIN A STABLE VERTICAL FACE.
8. DAMAGE TO PROPERTY BEYOND THE WORK LIMITS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE, SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
9. SEE CIVIL ENGINEER'S DRAWINGS FOR ALL PROPOSED DRAINAGE AND UTILITY LINES AND STRUCTURES.
10. REFER TO COASTAL ENGINEER'S DRAWINGS FOR ALL PROPOSED WORK ON THE WOODEN BOARDWALK, INCLUDING SURFACE MATERIAL, GANGWAY ENTRIES, ETC.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN FIELD VERIFICATION OF ALL ELEMENTS SHOWN ON THE EXISTING CONDITIONS PLAN DURING BIDDING AND CONSTRUCTION. ACCURACY OF THE EXISTING CONDITIONS PLAN HAS NOT BEEN FIELD VERIFIED BY OWNER OR PROJECT TEAM AND ELEMENTS SHOWN ON THE PLAN WHICH VARY FROM THOSE EXISTING IN THE FIELD EITHER IN TERMS OF LOCATION OR GRADE ARE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE. IF INACCURACIES AFFECT CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT TEAM AND OWNER BEFORE UNDERTAKING FURTHER ACTION AND A DISCUSSION WILL BE HELD TO DETERMINE A RESOLUTION



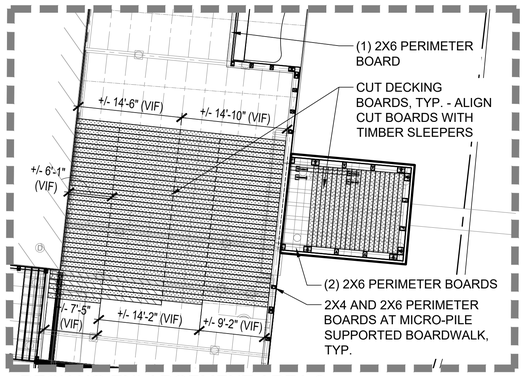
DECKING ENLARGEMENT AREA 1
SCALE: 1" = 10'-0"

ABBREVIATIONS:

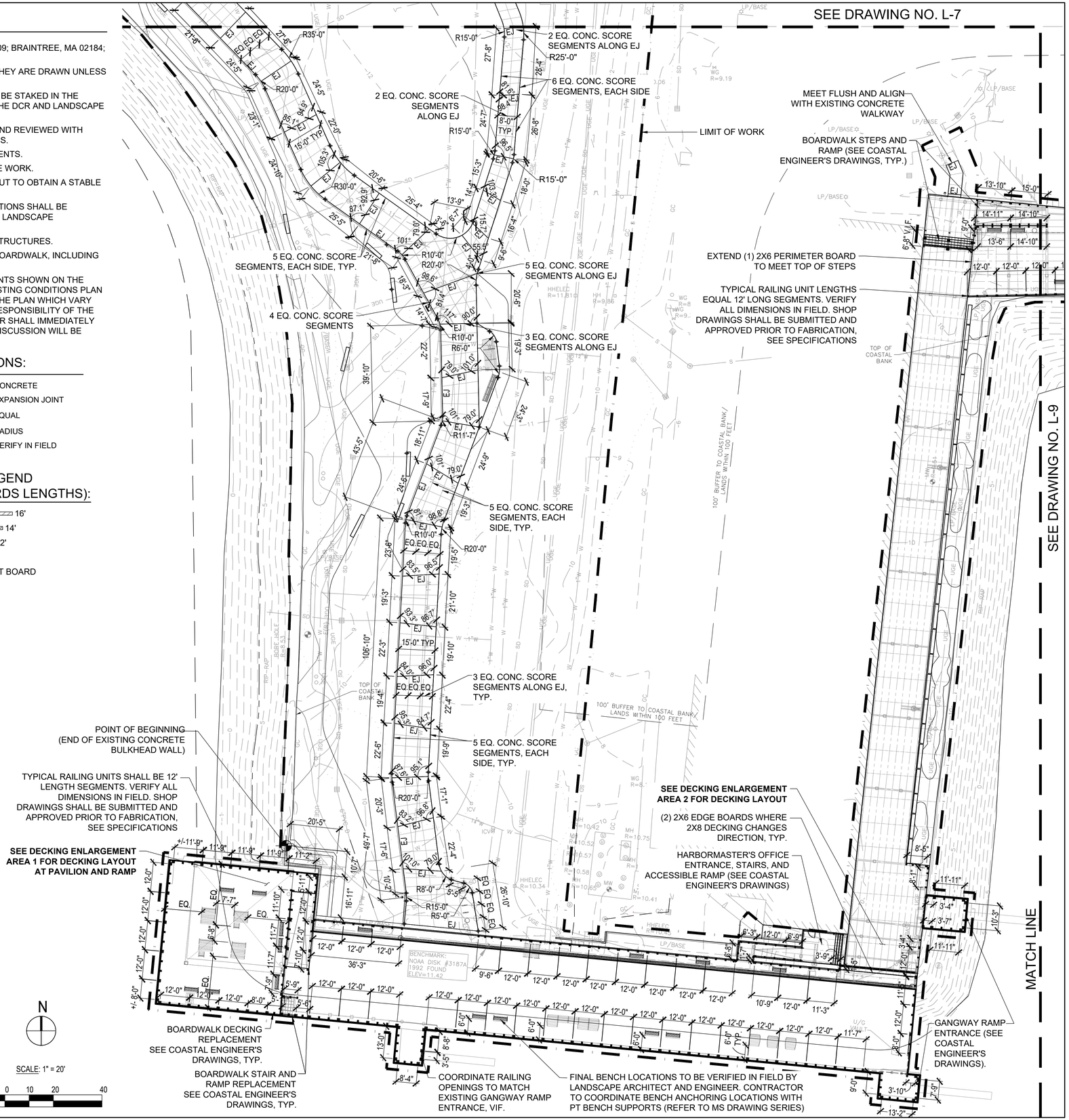
CONC.	CONCRETE
EJ	EXPANSION JOINT
EQ	EQUAL
R	RADIUS
V.I.F.	VERIFY IN FIELD

DECKING LEGEND (2" X 8" BOARDS LENGTHS):

- 16'
- 14'
- 12'
- 10'
- CUT BOARD



DECKING ENLARGEMENT AREA 2
SCALE: 1" = 10'-0"



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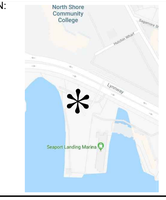
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

SITE LAYOUT PLAN

SHEET 3 OF 4

ACCESSION #:104946x

DESIGNED: DA

DRAWN: JL/AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

SCALE: 1"=20'-0"

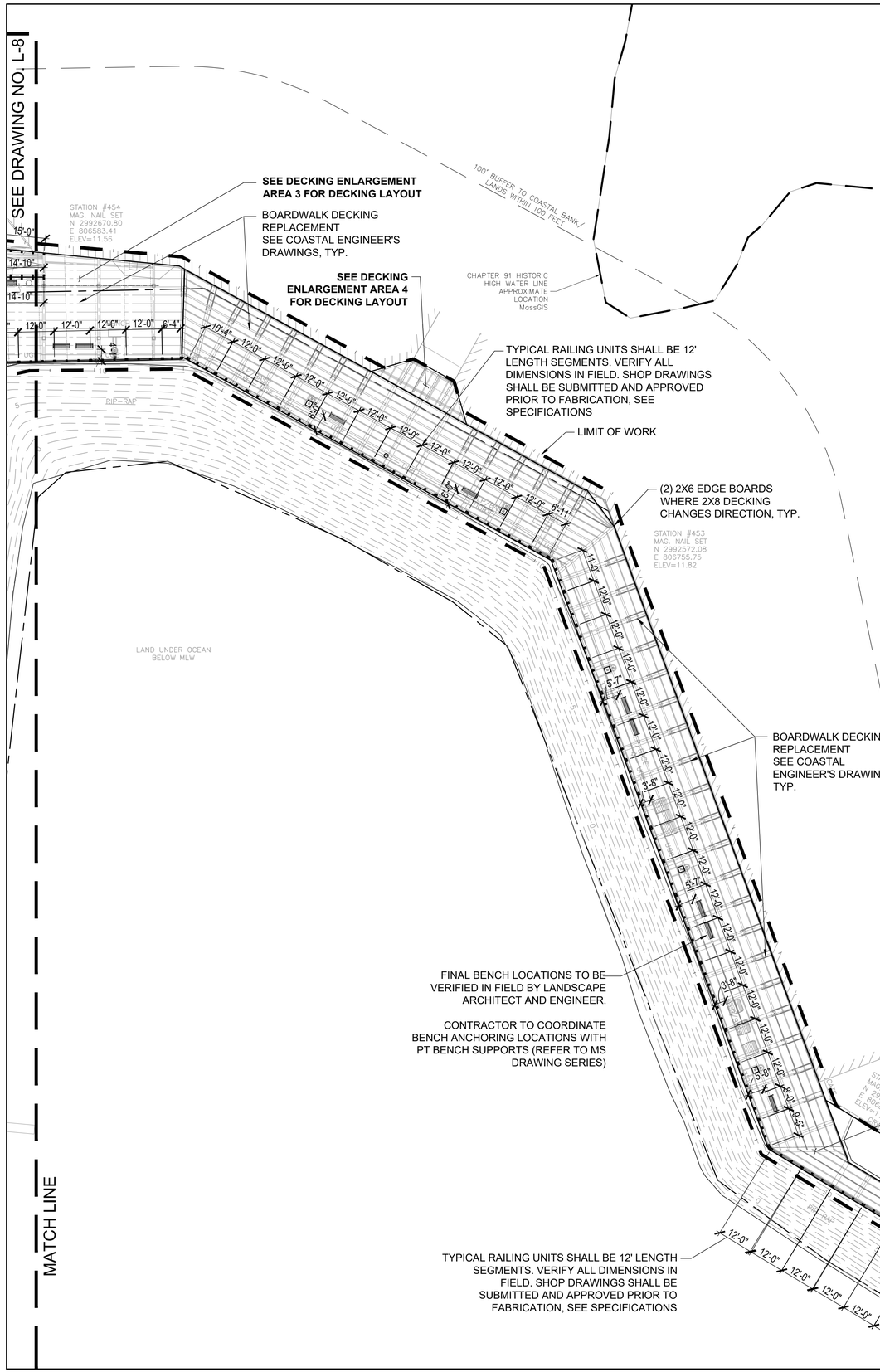
SUBMISSION: BID SET

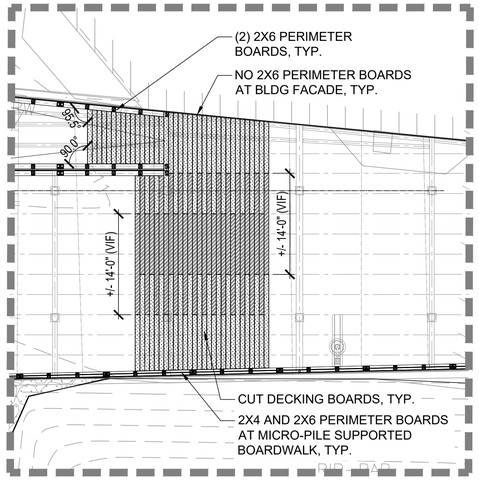
DRAWING NO.

L-8

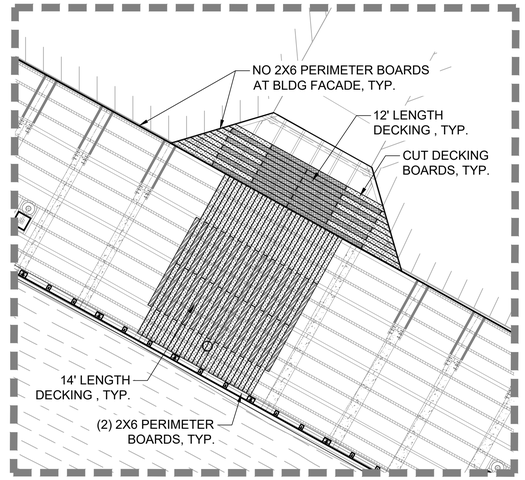
SEE DRAWING NO. L-8

MATCH LINE

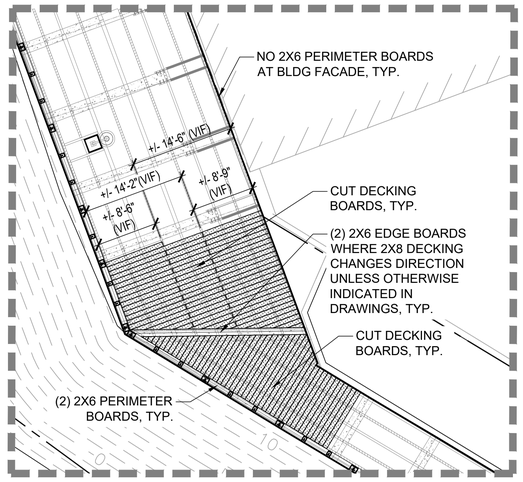




DECKING ENLARGEMENT AREA 3
SCALE: 1" = 10'-0"



DECKING ENLARGEMENT AREA 4
SCALE: 1" = 10'-0"



DECKING ENLARGEMENT AREA 5
SCALE: 1" = 10'-0"

DECKING LEGEND
(2" X 8" BOARDS LENGTHS):

- 16'
- 14'
- 12'
- 10'
- CUT BOARD

N

SCALE: 1" = 20'

10 0 10 20 40

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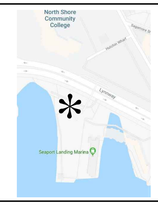
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WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

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DRAWING TITLE:

SITE LAYOUT PLAN

SHEET 4 OF 4

ACCESSION #:104947x

DESIGNED: DA

DRAWN: JL/AN/HV CHECKED: DA

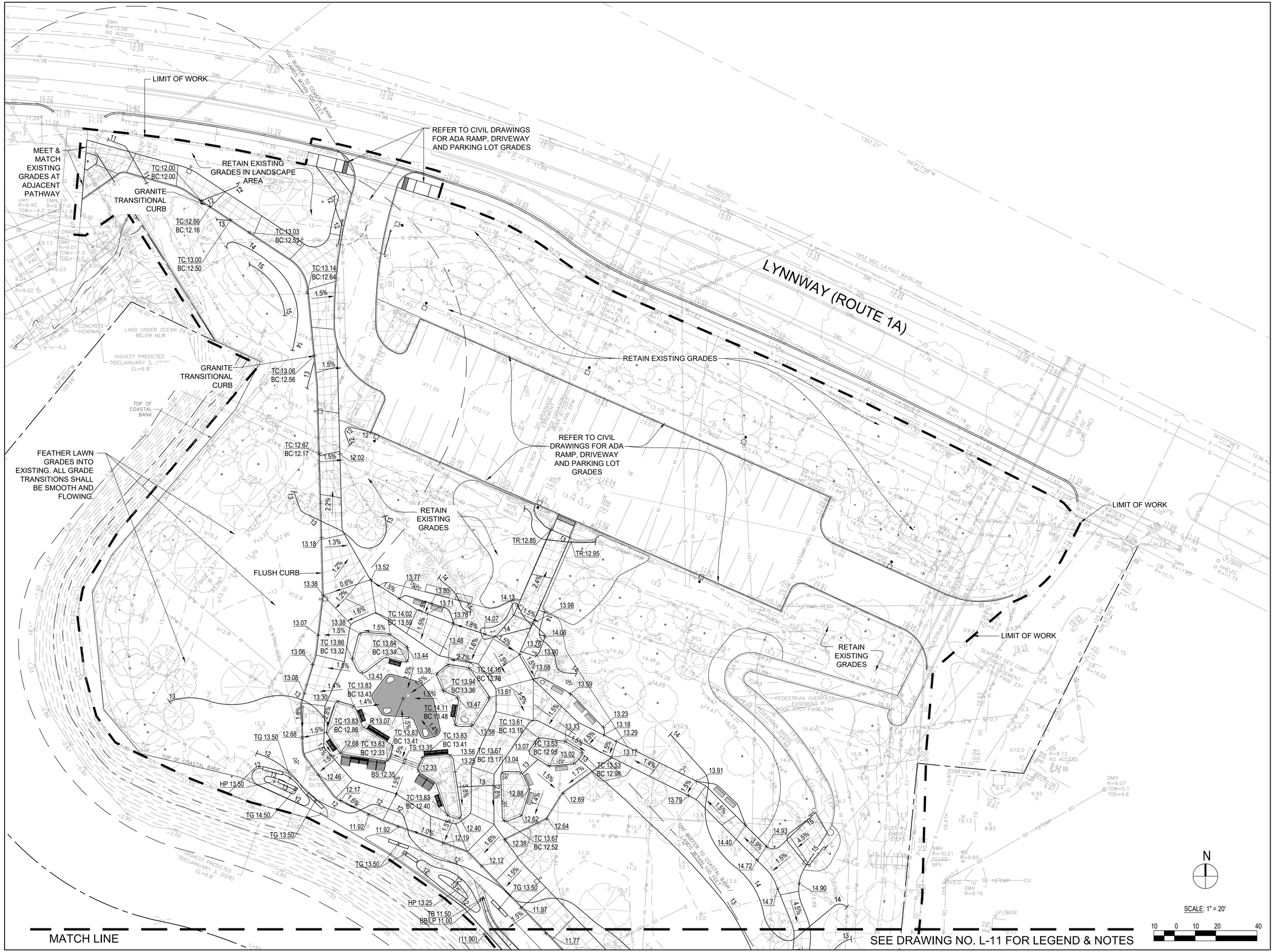
DATE: NOVEMBER 12, 2025

SCALE: 1"=20'-0"

SUBMISSION: BID SET

DRAWING NO.

L-9



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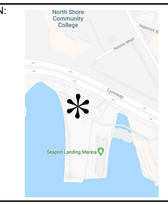
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WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

SITE GRADING PLAN SHEET 1 OF 3

ACCESSION #:104948x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

SCALE: 1"=20'-0"

SUBMISSION: BID SET

DRAWING NO.

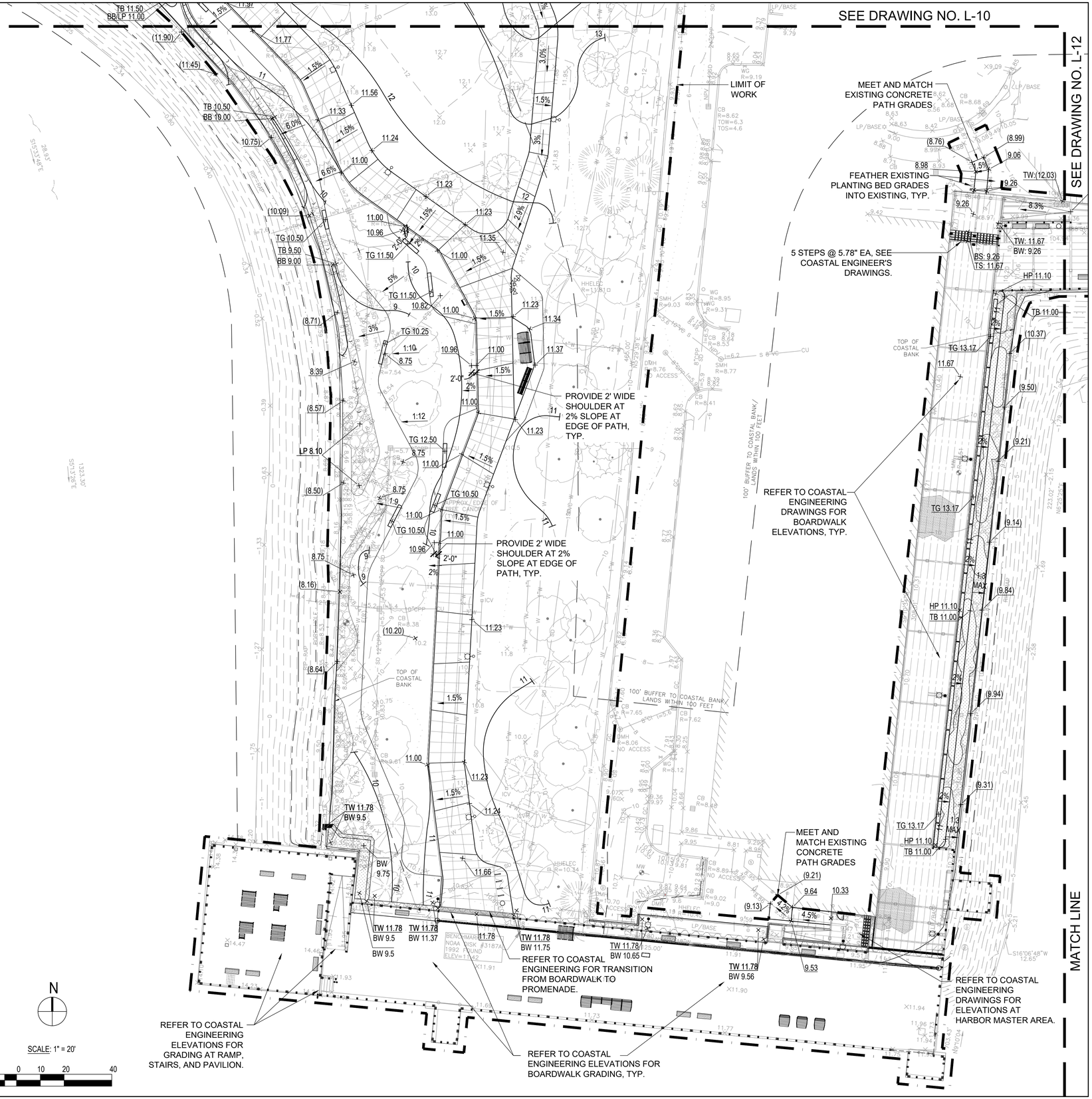
L-10

GRADING NOTES:

1. PRIOR TO COMMENCING ANY EXCAVATION WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "DIG SAFE" NOTIFICATION PROCEDURES PROMOTED BY RESPECTIVE UTILITY COMPANIES.
2. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING. WHERE NEW PAVING MEETS EXISTING PAVING, MEET LINE AND GRADE OF EXISTING WITH NEW PAVING.
3. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE.
4. PITCH EVENLY BETWEEN SPOT GRADES AND CONTOURS. ALL PAVED AREAS MUST PITCH TO DRAIN (MIN. >1%, MAX. <2%) ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.
5. CONTRACTOR SHALL REVIEW EXISTING GRADES IN THE FIELD AND ADJUST SUBGRADES AS REQUIRED TO MEET FINISHED SITE GRADES.
6. WHERE AREAS ARE GRADED WITH A CROSS PITCH, SLOPE ACROSS THE AREA SHALL BE MAX 1.5% TOWARDS THE EDGE AS SHOWN ON DRAWINGS, TYPICAL, UNLESS OTHERWISE INDICATED.
7. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO OWNER'S REPRESENTATIVE.
8. EXCAVATION REQUIRED WITHIN THE DRIP LINE (EDGE OF CANOPY) OF EXISTING TREES AND UP TO 10'-0" OUTSIDE THE DRIP LINE SHALL BE DONE BY HAND. CONTRACTOR SHALL TAKE CARE SO AS NOT TO DAMAGE THE ROOT SYSTEMS OF EXISTING TREES AND SHRUBS. REFER TO SPECIFICATIONS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN FIELD VERIFICATION OF ALL ELEMENTS SHOWN ON THE EXISTING CONDITIONS PLAN DURING BIDDING AND CONSTRUCTION. ACCURACY OF THE EXISTING CONDITIONS PLAN HAS NOT BEEN FIELD VERIFIED BY OWNER OR PROJECT TEAM AND ELEMENTS SHOWN ON THE PLAN WHICH VARY FROM THOSE EXISTING IN THE FIELD EITHER IN TERMS OF LOCATION OR GRADE ARE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE. IF INACCURACIES AFFECT CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT TEAM AND OWNER BEFORE UNDERTAKING FURTHER ACTION AND A DISCUSSION WILL BE HELD TO DETERMINE A RESOLUTION

ABBREVIATIONS:

+ XXX.XX	PROPOSED SPOT ELEVATION
+ (XXX.XX)	EXISTING SPOT ELEVATION
TC	TOP OF CURB
BC	BOTTOM OF CURB
TG	TOP OF GRANITE BLOCK
TW	TOP OF WALL
BW	BOTTOM OF WALL
TB	TOP OF BANK
BB	BOTTOM OF BANK
TP	TOP OF POST
BP	BOTTOM OF POST
TD	TOP OF DRAIN
HP	HIGH POINT
LP	LOW POINT
VIF	VERIFY IN FIELD
PP	PERFORATED PIPE
PVC	PVC PIPE (SOLID)
CB	CATCH BASIN
XXX	PROPOSED CONTOUR
XXX	EXISTING CONTOUR



N

SCALE: 1" = 20'

10 0 10 20 40

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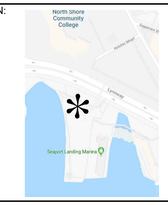
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
WILLIAM D ANDREWS
REGISTERED LANDSCAPE ARCHITECT
NO. 4239
11/7/25

DRAWING TITLE:

SITE GRADING PLAN
SHEET 2 OF 3

ACCESSION #:104949x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

SCALE: 1"=20'-0"

SUBMISSION: BID SET

DRAWING NO.

L-11

SEE DRAWING NO. L-11

MATCH LINE

EA.

LYNN HARBOR

LAND UNDER OCEAN
BELOW MLW

100' BUFFER TO COASTAL BANK/
LANDS WITHIN 100 FEET

CHAPTER 91 HISTORIC
HIGH WATER LINE
APPROXIMATE
LOCATION
MassGIS

REFER TO COASTAL
ENGINEERING DRAWINGS
FOR BOARDWALK
ELEVATIONS, TYP.

TR: 11.74

BENCH

RIP-RAP

REFER TO COASTAL
ENGINEERING DRAWINGS FOR
BOARDWALK ELEVATIONS, TYP.

MEET AND MATCH
EXISTING GRADES
AT PROPERTY LINE

N

SCALE: 1" = 20'

10 0 10 20 40

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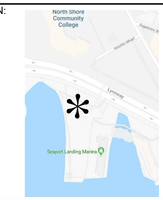
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WATERFRONT
IMPROVEMENTS AND
BOARDWALK
RECONSTRUCTION
Lynn, MA

for the Department of
Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
WILLIAM D ANDREWS
NO. 4239
REGISTERED LANDSCAPE ARCHITECT
11/7/25

DRAWING TITLE:

SITE GRADING
PLAN
SHEET 3 OF 3

ACCESSION #:104950x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

SCALE: 1"=20'-0"

SUBMISSION: BID SET

DRAWING NO.

L-12

LIMIT OF WORK

(26) Des

SEEDED LAWN

(1) QM

SEEDED LAWN

(62) Arc
(1) CC
(52) Co Pe

SEEDED LAWN

(93) Arc
(58) Co Pe
(1) CC
(4) Co Se
(3) Il Gl

TOP OF COASTAL BANK

100' BUFFER TO COASTAL BANK

(13) Eur
(3) Co Se
(46) Lir

(46) Lir
(12) Eur
(3) Co Se

(3) JV
(9) Il Gl
(1) CA
(7) Il Gl

(92) Eur
(47) Lir

(1) CA
(1) QM
(1) NS
(1) QR

(14) Arc
(1) AA
(26) Sch
(18) Eur
(14) Sch
(1) AR
(27) Des
(10) Arc

SEEDED LAWN

(1) AR
(55) Sch
(1) AA

(176) Lir

(39) Lir
(21) Eur
(9) Il Gl
(75) Lir
(1) CA

(3) JV

(30) Eur
(18) Arc

(7) Il Gl
(17) Des

(1) HV

(5) Co Se
(17) Eur
(38) Lir

(45) Eur
(1) AA
(50) Des
(59) Sch

(12) Arc
(35) Des

(23) Arc

(9) Eur

(16) Sch
(7) Arc

(7) Arc
(12) Eur

(1) NS
(32) Sch

(1) AR
(1) AA

(21) Arc
(1) AA
(28) Sch
(18) Eur
(1) AR

(24) Des
(14) Arc

(7) Arc
(16) Des
(9) Eur
(17) Eur
(21) Sch
(7) Arc

(2) HV
(1) QR
(2) AA
(1) HV
(4) AR
(1) HV
(1) QR

(21) Sch

SEEDED LAWN

(1) CA
(2) AC

(20) Eur
(1) QM
(45) Sch
(35) Pan
(35) Era

(25) Era
(1) QM
(30) Rh Ar
(40) Sch

(1) AC
(25) Eur

(30) Sch

SEEDED LAWN

(10) Co Se
(18) Rh Ca
(7) Il Gl
(3) Cl Al

(45) Sch
(22) Rh Ar

(3) Cl Al
(10) Sch
(9) Rh Ar
(1) HV

LIMIT OF WORK

SEEDED LAWN

LIMIT OF WORK

SEEDED LAWN

1993 MDC LAYOUT BASELINE

N

SCALE: 1" = 20'

10 0 10 20 40

MATCH LINE

SEE DRAWING NO. L-14 FOR LEGEND & NOTES (SEE DRAWING NO. L-15 FOR PLANT LIST)

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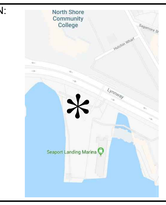
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WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

SITE PLANTING PLAN
SHEET 1 OF 3

ACCESSION #:104951x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

SCALE: 1"=20'-0"

SUBMISSION: BID SET

DRAWING NO.

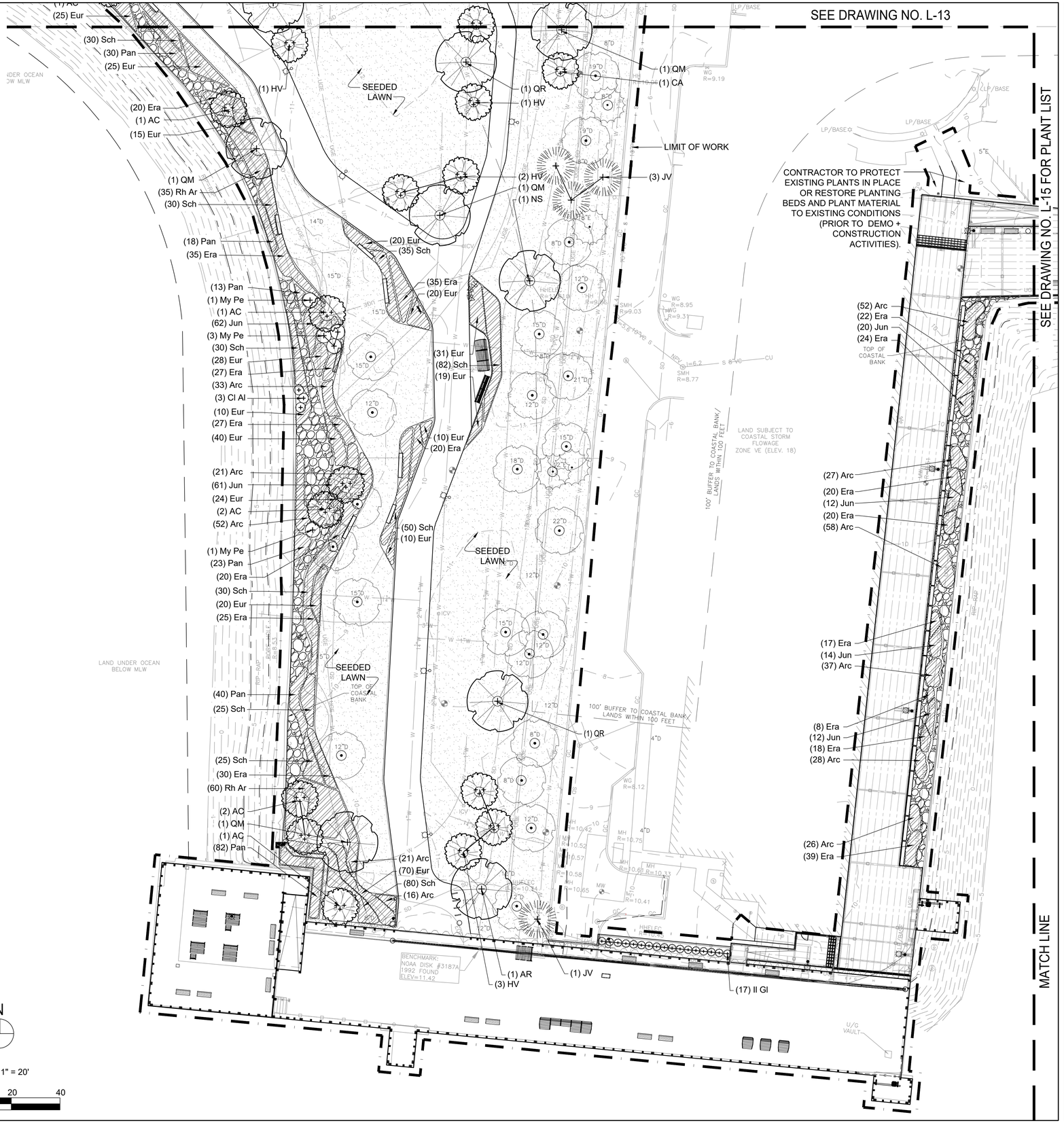
L-13

PLANTING NOTES:

1. ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE "AMERICAN STANDARD FOR NURSERY STOCK" PUBLISHED BY AMERICAN ASSOCIATION OF NURSERYMEN, LATEST EDITION, OR AS INDICATED IN THE PLANT LIST, WHICH SHALL GOVERN.
2. ALL PLANT MATERIAL SHALL BE FIELD SELECTED IN NURSERIES BY THE LANDSCAPE ARCHITECT AFTER PRELIMINARY TAGGING BY CONTRACTOR. ALL STOCK SHALL BE NURSERY GROWN.
3. THE LANDSCAPE ARCHITECT SHALL REVIEW PLACEMENT OF PLANTS IN FIELD BEFORE INSTALLATION AFTER STAKING IN FIELD BY CONTRACTOR ACCORDING TO PLANTING PLANS AND SITE DETAILS. THE CONTRACTOR SHALL INFORM THE LANDSCAPE ARCHITECT IMMEDIATELY OF ANY CONFLICTS BETWEEN PROPOSED PLANT LOCATIONS AND BELOW GRADE UTILITIES, STRUCTURES, DRAINAGE PROBLEMS OR ANY OTHER PLANTING CONFLICT ENCOUNTERED OR ANTICIPATED AND REVIEWED WITH THE LANDSCAPE ARCHITECT BEFORE PLANTING COMMENCES. SEE SPECIFICATIONS FOR COORDINATION OF GEOGRID AND EXISTING AND PROPOSED TREES.
4. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN SIZES AND QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PLANT TREES AT THE SPACING INDICATED ON THE PLANS. THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT INJURED, DISEASED, DESICCATED OR INCORRECT SPECIES AT ANY TIME.
5. ALL PLANTS THAT ARE DELIVERED TO THE SITE AND NOT PLANTED IMMEDIATELY SHALL BE STORED AND WATERED PROPERLY, ACCORDING TO THE SPECIFICATIONS, IN SECURE LOCATIONS REVIEWED BY THE LANDSCAPE ARCHITECT. ALL PLANTS SHALL HAVE ONE YEAR GUARANTEE.
6. ALL TREES SHALL BE STAKED OR ANCHORED SECURELY AND ACCORDING TO THE SITE DETAILS.
7. ALL NEW AND EXISTING PLANT MATERIAL WITHIN THE LANDSCAPE LIMIT OF WORK LINE SHALL BE PRUNED AFTER PLANTING TO REMOVE ALL DEAD OR DAMAGED BRANCHES. TREE WOUND DRESSING SHALL NOT BE USED ON ANY PLANTINGS. ALL NEW PLANTINGS SHALL BE WATERED FROM DELIVERY UNTIL THE END OF THE GUARANTEE PERIOD.
8. ALL PLANTS SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS TO ORIGINAL GRADE BEFORE DIGGING, UNLESS OTHERWISE DETAILED, AND SHALL HAVE A MULCHED SAUCER ACCORDING TO DETAILS.
9. ALL PAPER, PLASTIC CONTAINERS, BURLAP, WIRE BASKETS, AND IRON FASTENERS SHALL BE REMOVED FROM PLANTS BEFORE SETTING IN PLANT PIT.
10. MULCH WITH 2" DEPTH SHREDDED PINE BARK TO LIMITS OF BED IN LOCATION SHOWN ON PLANTING PLANS AND DETAILS.
11. EXISTING TOPSOIL SHALL BE UTILIZED FOR LOAM OR PLANTING SOIL MIXTURES ONLY IF TESTING INDICATES TOTAL CONFORMITY TO SPECIFICATIONS FOR LOAM BORROW. ALL GRASS, SOD, ROOTS, SHELLS AND STONES OVER HALF-INCH DIAMETER SHALL BE REMOVED AND LEGALLY DISPOSED OF.
12. TREE PIT LOCATIONS SHALL BE TESTED FOR DRAINAGE FOLLOWING METHODS AS REQUIRED BY SPECIFICATIONS.
13. REFER TO DRAWINGS FOR TREE PROTECTION DETAIL. TREE PROTECTIVE FENCING SHALL BE INSTALLED BEFORE CONSTRUCTION VEHICLES ACCESS OR CONSTRUCTION OCCURS WITHIN 25' OF ANY EXISTING TREE TO REMAIN. FENCING SHALL BE INSTALLED AT TREE DRIPLINE OR EDGE OF ADJACENT PAVING AND ACCORDING TO TREE REMOVAL AND PROTECTION PLANS AND WITH REVIEW OF THE LANDSCAPE ARCHITECT. REMOVAL SHALL BE AT COMPLETION OF CONSTRUCTION IN THE VICINITY.
14. ALL PERENNIALS SHALL BE LAID OUT IN FIELD WITH LANDSCAPE ARCHITECT.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN FIELD VERIFICATION OF ALL ELEMENTS SHOWN ON THE EXISTING CONDITIONS PLAN DURING BIDDING AND CONSTRUCTION. ACCURACY OF THE EXISTING CONDITIONS PLAN HAS NOT BEEN FIELD VERIFIED BY OWNER OR PROJECT TEAM AND ELEMENTS SHOWN ON THE PLAN WHICH VARY FROM THOSE EXISTING IN THE FIELD EITHER IN TERMS OF LOCATION OR GRADE ARE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE. IF INACCURACIES AFFECT CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT TEAM AND OWNER BEFORE UNDERTAKING FURTHER ACTION AND A DISCUSSION WILL BE HELD TO DETERMINE A RESOLUTION

PLANTING LEGEND

	6 LD-5	DECIDUOUS TREE PLANTING
	6 LD-5	SMALL DECIDUOUS TREE PLANTING, SIM.
	7 LD-5	EVERGREEN TREE PLANTING, SIM.
		EXISTING TREE TO REMAIN
	8 LD-5	SEEDED LAWN (NEW OR REFURBISHED)
	5 LD-5	GROUNDCOVER, PERENNIAL AND BULB PLANTING
	4 LD-5	SHRUB PLANTING
	4 LD-5	EVERGREEN SHRUB PLANTING



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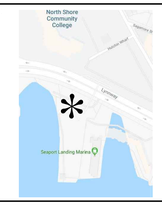
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KEY PLAN:



ISSUE:

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STAMPED AND SIGNED:



DRAWING TITLE:

SITE PLANTING PLAN
SHEET 2 OF 3

ACCESSION #:104952x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

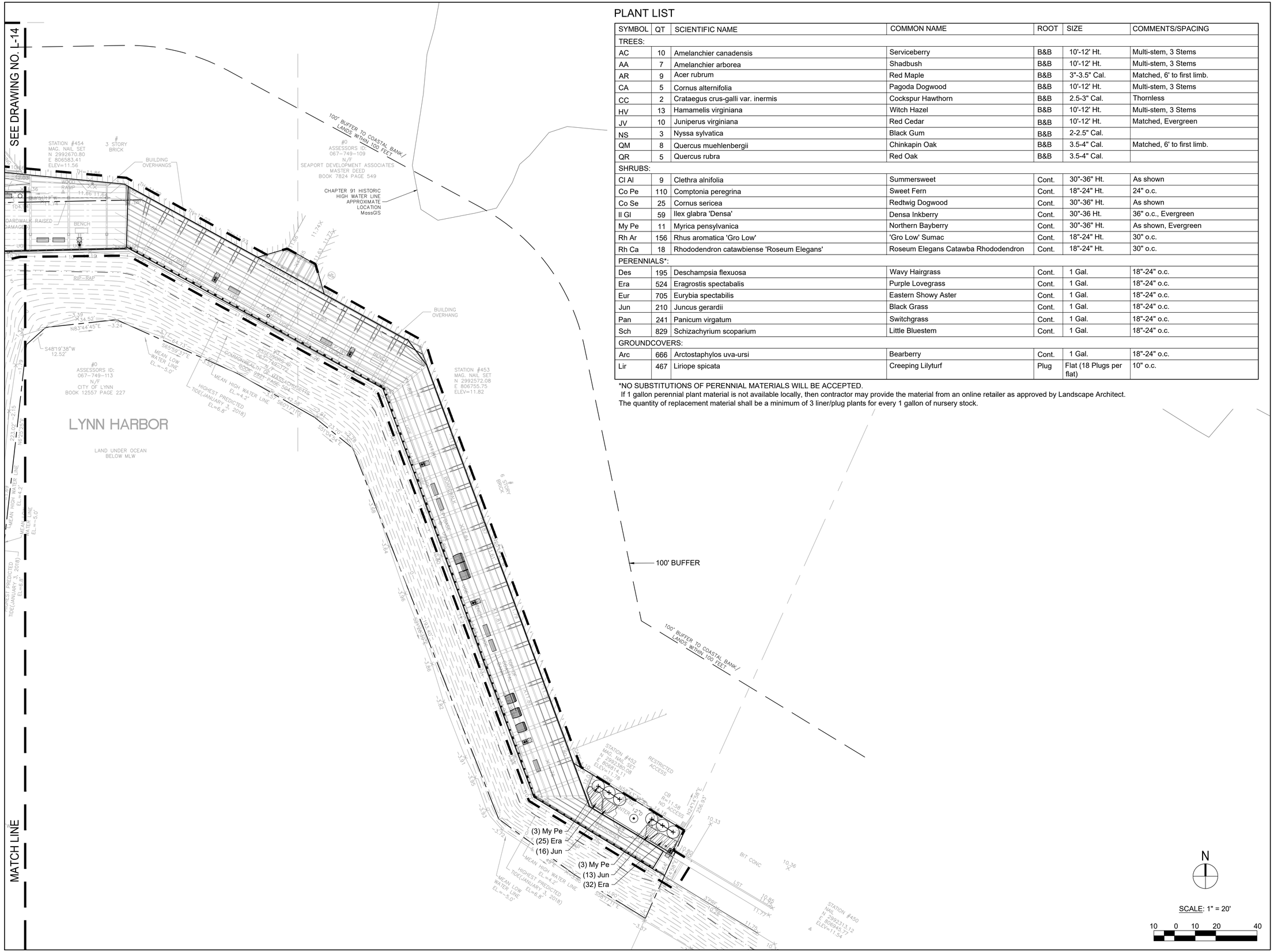
SCALE: 1"=20'-0"

SUBMISSION: BID SET

DRAWING NO.

L-14

SEE DRAWING NO. L-14



N

SCALE: 1" = 20'

10 0 10 20 40

PLANT LIST

SYMBOL	QT	SCIENTIFIC NAME	COMMON NAME	ROOT	SIZE	COMMENTS/SPACING
TREES:						
AC	10	Amelanchier canadensis	Serviceberry	B&B	10'-12' Ht.	Multi-stem, 3 Stems
AA	7	Amelanchier arborea	Shadbush	B&B	10'-12' Ht.	Multi-stem, 3 Stems
AR	9	Acer rubrum	Red Maple	B&B	3"-3.5" Cal.	Matched, 6' to first limb.
CA	5	Cornus alternifolia	Pagoda Dogwood	B&B	10'-12' Ht.	Multi-stem, 3 Stems
CC	2	Crataegus crus-galli var. inermis	Cockspur Hawthorn	B&B	2.5-3" Cal.	Thornless
HV	13	Hamamelis virginiana	Witch Hazel	B&B	10'-12' Ht.	Multi-stem, 3 Stems
JV	10	Juniperus virginiana	Red Cedar	B&B	10'-12' Ht.	Matched, Evergreen
NS	3	Nyssa sylvatica	Black Gum	B&B	2-2.5" Cal.	
QM	8	Quercus muehlenbergii	Chinkapin Oak	B&B	3.5-4" Cal.	Matched, 6' to first limb.
QR	5	Quercus rubra	Red Oak	B&B	3.5-4" Cal.	
SHRUBS:						
Cl Al	9	Clethra alnifolia	Summersweet	Cont.	30"-36" Ht.	As shown
Co Pe	110	Comptonia peregrina	Sweet Fern	Cont.	18"-24" Ht.	24" o.c.
Co Se	25	Cornus sericea	Redtwig Dogwood	Cont.	30"-36" Ht.	As shown
Il Gl	59	Ilex glabra 'Densa'	Densa Inkberry	Cont.	30"-36 Ht.	36" o.c., Evergreen
My Pe	11	Myrica pensylvanica	Northern Bayberry	Cont.	30"-36" Ht.	As shown, Evergreen
Rh Ar	156	Rhus aromatica 'Gro Low'	'Gro Low' Sumac	Cont.	18"-24" Ht.	30" o.c.
Rh Ca	18	Rhododendron catawbiense 'Roseum Elegans'	Roseum Elegans Catawba Rhododendron	Cont.	18"-24" Ht.	30" o.c.
PERENNIALS*:						
Des	195	Deschampsia flexuosa	Wavy Hairgrass	Cont.	1 Gal.	18"-24" o.c.
Era	524	Eragrostis spectabalis	Purple Lovegrass	Cont.	1 Gal.	18"-24" o.c.
Eur	705	Eurybia spectabilis	Eastern Showy Aster	Cont.	1 Gal.	18"-24" o.c.
Jun	210	Juncus gerardii	Black Grass	Cont.	1 Gal.	18"-24" o.c.
Pan	241	Panicum virgatum	Switchgrass	Cont.	1 Gal.	18"-24" o.c.
Sch	829	Schizachyrium scoparium	Little Bluestem	Cont.	1 Gal.	18"-24" o.c.
GROUNDCOVERS:						
Arc	666	Arctostaphylos uva-ursi	Bearberry	Cont.	1 Gal.	18"-24" o.c.
Lir	467	Liriope spicata	Creeping Lilyturf	Plug	Flat (18 Plugs per flat)	10" o.c.

*NO SUBSTITUTIONS OF PERENNIAL MATERIALS WILL BE ACCEPTED.
If 1 gallon perennial plant material is not available locally, then contractor may provide the material from an online retailer as approved by Landscape Architect.
The quantity of replacement material shall be a minimum of 3 liner/plug plants for every 1 gallon of nursery stock.

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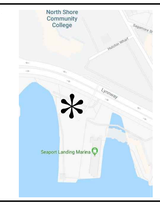
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VETERANS MEMORIAL PARK
WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

SITE PLANTING PLAN
SHEET 3 OF 3

ACCESSION #:104953x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

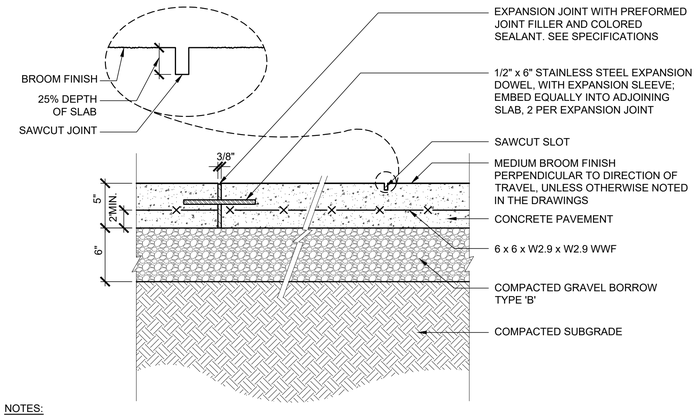
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SUBMISSION: BID SET

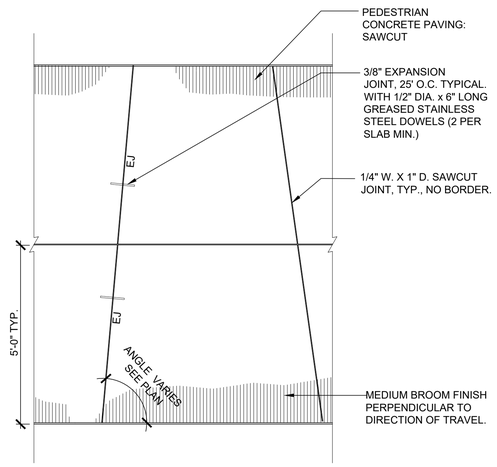
DRAWING NO.

L-15

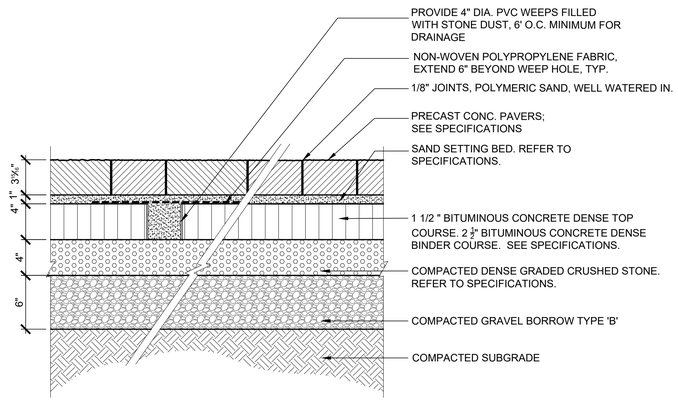


NOTES:

1. PROVIDE EXPANSION JOINT AT ALL CONSTRUCTION JOINTS, 30' O.C. MAXIMUM. SEE SPECIFICATIONS
2. PROVIDE EXPANSION JOINT AT ALL VERTICAL STRUCTURE INTERFACES (E.G. BUILDINGS, WALLS, ETC.)
3. PROVIDE CONTROL JOINTS AS SHOWN IN LAYOUT DRAWINGS. SUBMIT IN SHOP DRAWING FOR APPROVAL.
4. REFER TO PLANS AND SPECIFICATION FOR ADDITIONAL REQUIREMENTS.



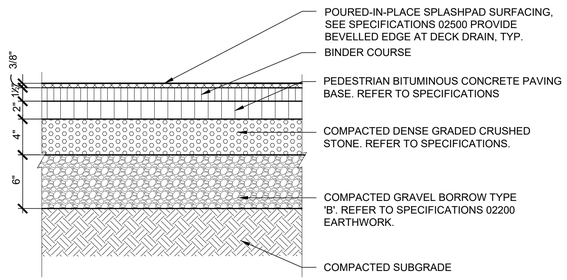
1 PEDESTRIAN CONCRETE PAVING
SCALE: 1 1/2" = 1'-0"



NOTES:

1. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. PAVERS TO BE GAUGED TO ALLOW FOR LEVEL INSTALLATION ON BITUMINOUS CONCRETE BASE.
3. POLYMERIC SAND COLOR TO BE SELECTED FROM SUBMITTED SAMPLES.

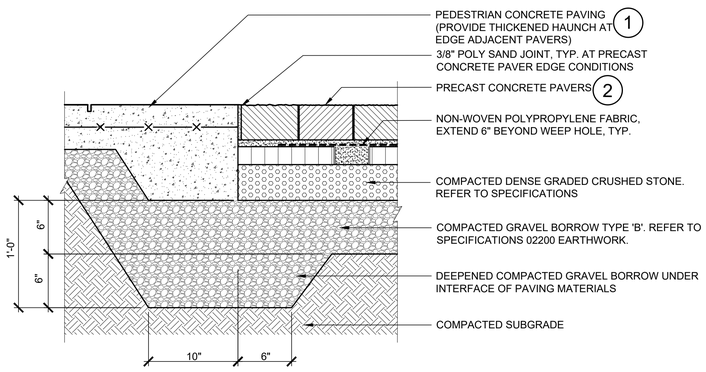
2 PRECAST CONCRETE PAVERS
SCALE: 1-1/2" = 1'-0"



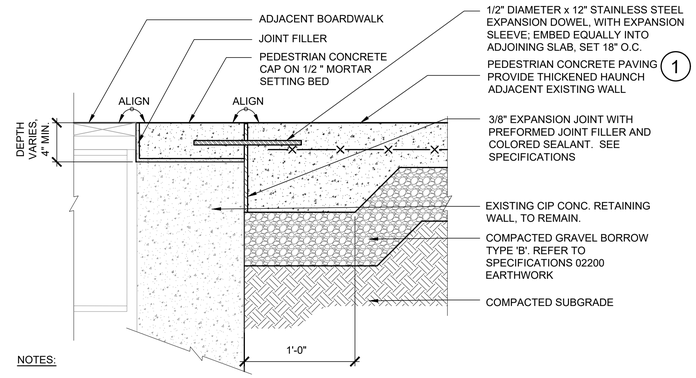
NOTES:

1. SEE SPECIFICATIONS FOR SURFACING COLOR REQUIREMENTS.
2. COORDINATE SPLASHPAD SURFACING WITH SPLASHPAD DETAILS ON SHEET LD-6
3. PROVIDE BEVELLED EDGE AT DRAIN. SEE DETAIL 5, SHEET LD-6.

3 SPLASHPAD SURFACING
SCALE: 1 1/2" = 1'-0"



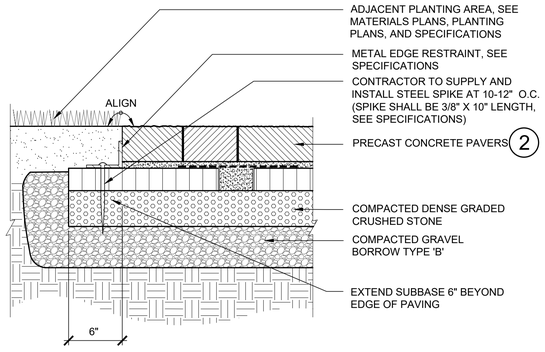
EDGE AT PEDESTRIAN CONCRETE PAVING AND PRECAST CONCRETE PAVER
4 SCALE: 1-1/2" = 1'-0"



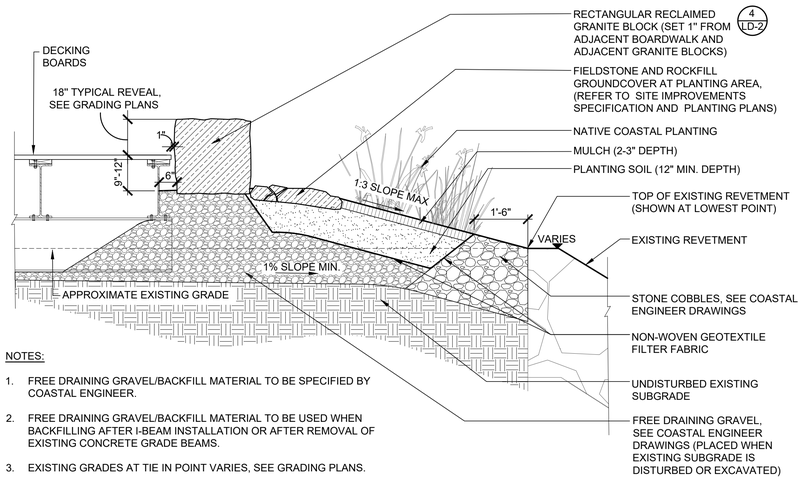
NOTES:

1. PROVIDE EXPANSION JOINT AT ALL VERTICAL STRUCTURE INTERFACES. (EG., BUILDINGS, WALLS,, ETC.)
2. REFER TO PLANS AND SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

5 PEDESTRIAN CONCRETE PAVING AT BOARDWALK INTERFACE
SCALE: 1-1/2" = 1'-0"



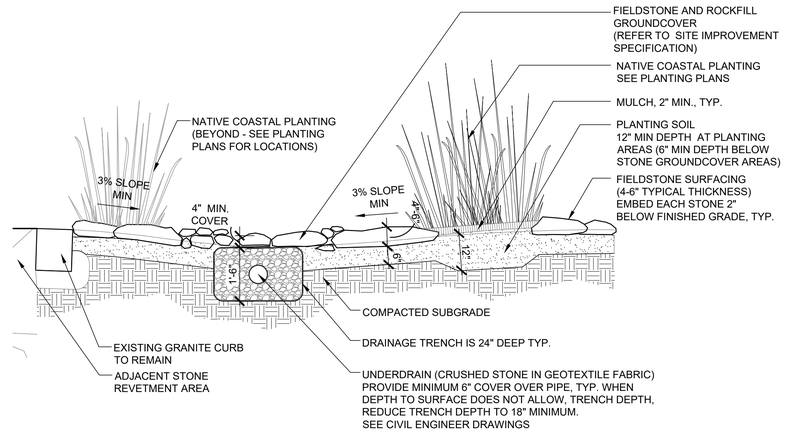
6 METAL EDGE AT PAVERS
SCALE: 1-1/2" = 1'-0"



NOTES:

1. FREE DRAINING GRAVEL/BACKFILL MATERIAL TO BE SPECIFIED BY COASTAL ENGINEER.
2. FREE DRAINING GRAVEL/BACKFILL MATERIAL TO BE USED WHEN BACKFILLING AFTER I-BEAM INSTALLATION OR AFTER REMOVAL OF EXISTING CONCRETE GRADE BEAMS.
3. EXISTING GRADES AT TIE IN POINT VARIES, SEE GRADING PLANS.

7 FIELDSTONE AND COASTAL PLANTING AT BOARDWALK
SCALE: 1/2" = 1'-0"



8 FIELDSTONE AND COASTAL PLANTING AT RAINGARDEN
SCALE: 1/2" = 1'-0"

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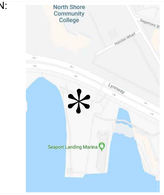
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KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

PAVING + EDGE DETAILS
SHEET 1 OF 12

ACCESSION #:104954x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

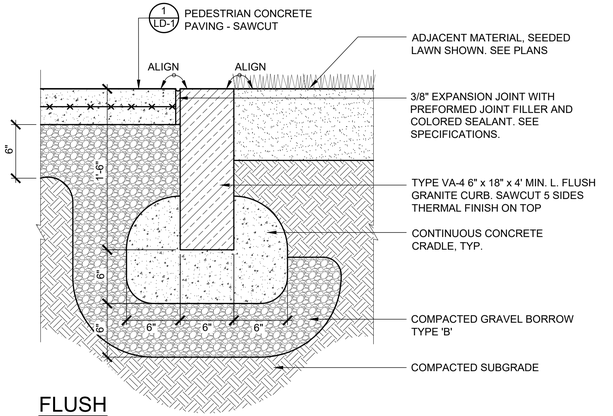
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

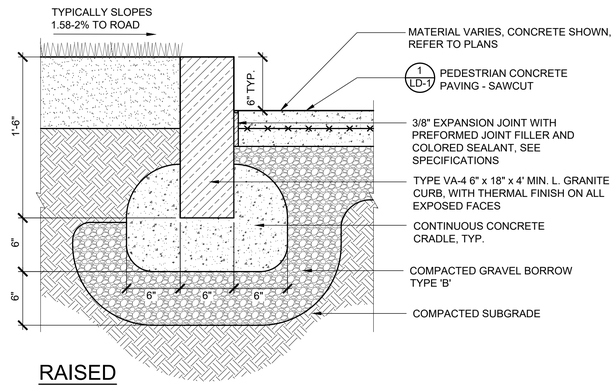
SUBMISSION: BID SET

DRAWING NO.

LD-1



FLUSH

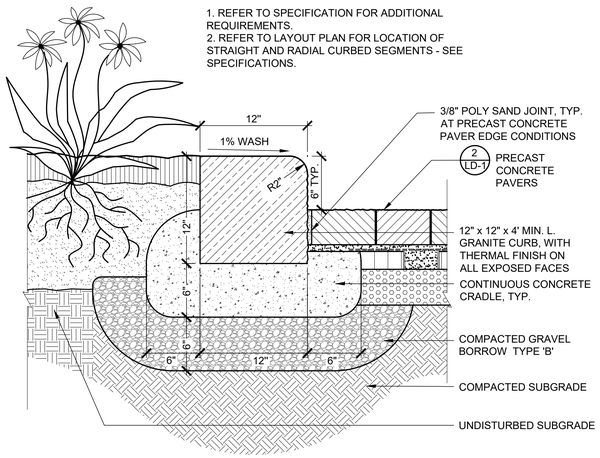


RAISED

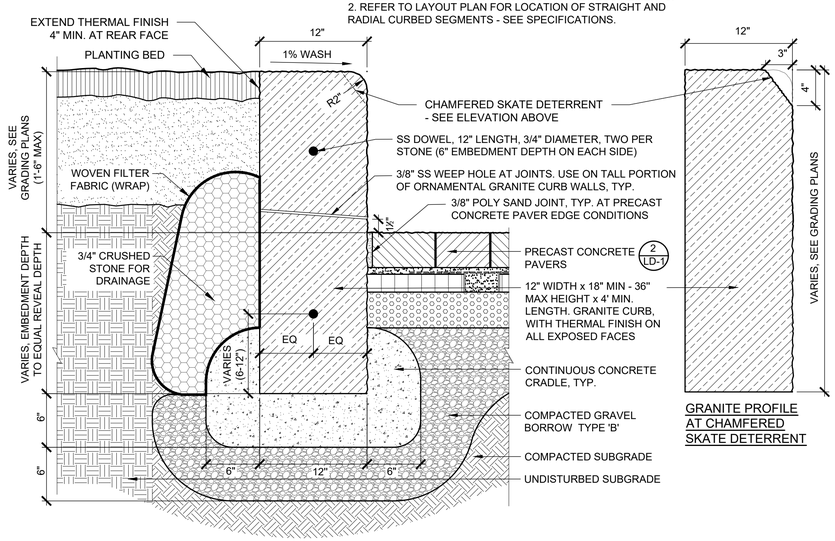
NOTES:
1. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. SEE GRADING PLAN FOR CURB REVEAL HEIGHT.
3. PROVIDE FLUSH GRANITE LANDSCAPE CURB AT OCEAN SIDE OF PROMENADE PATH, TYP.
4. REFER TO LAYOUT PLAN FOR LOCATION OF STRAIGHT AND RADIAL CURBED SEGMENTS - SEE SPECIFICATIONS.
5. REFER TO GRADING PLAN FOR LOCATIONS OF GRANITE TRANSITIONAL CURB - SEE SPECIFICATIONS.

1 GRANITE LANDSCAPE CURB (STRAIGHT, RADIAL AND TRANSITION)

SCALE: 1-1/2" = 1'-0"



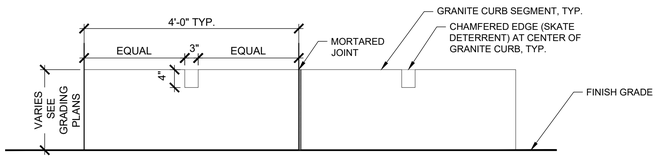
TYPE A: TYPICAL LOW CURB



TYPE B: HIGH CURB AT GRADE CHANGE

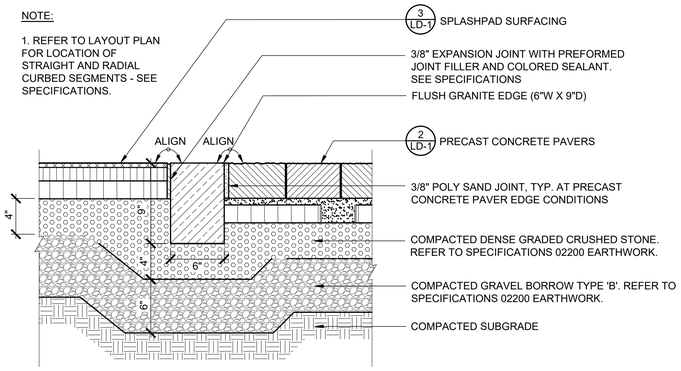
2 ORNAMENTAL GRANITE CURB TYPE A + TYPE B (STRAIGHT AND RADIAL)

SCALE: 1-1/2" = 1'-0"



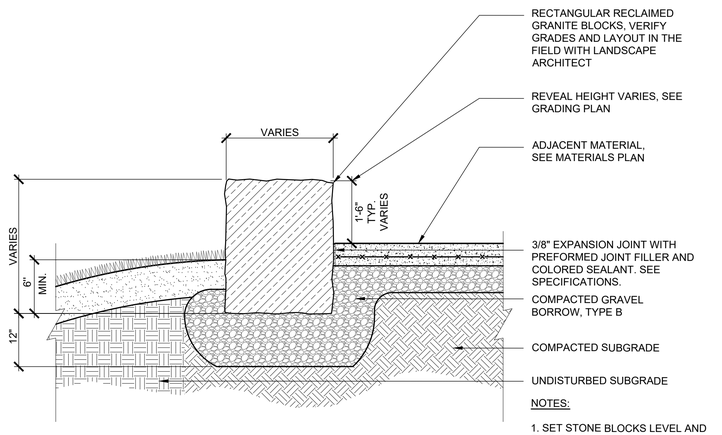
CHAMFERED SKATE DETERRENT - ELEVATION

SCALE: 3/4" = 1'-0"



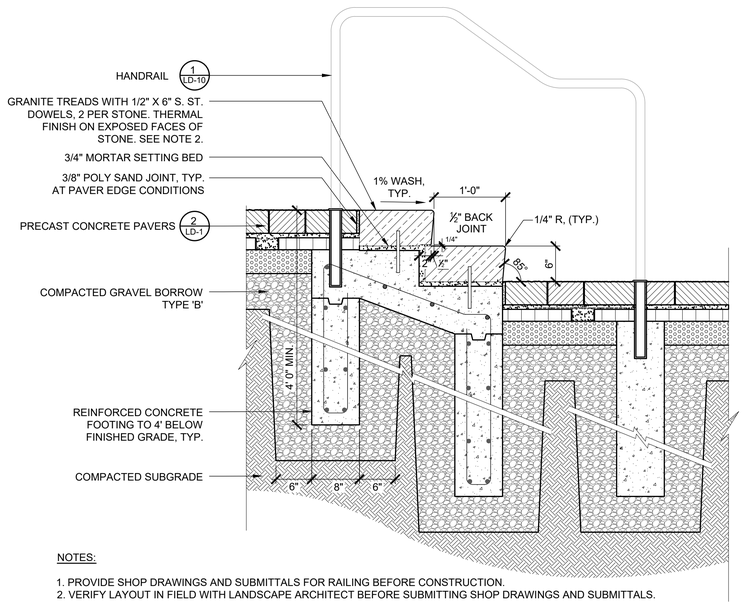
3 GRANITE EDGE AT SPLASHPAD (STRAIGHT AND RADIAL)

SCALE: 1-1/2" = 1'-0"



4 RECLAIMED GRANITE BLOCK

SCALE: 3/4" = 1'-0"



5 GRANITE STEPS

SCALE: 1" = 1'-0"

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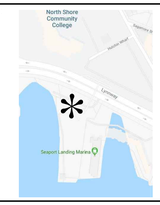
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KEY PLAN:



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NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

CURB, WALL + STAIR DETAILS
SHEET 2 OF 12

ACCESSION #:104955x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

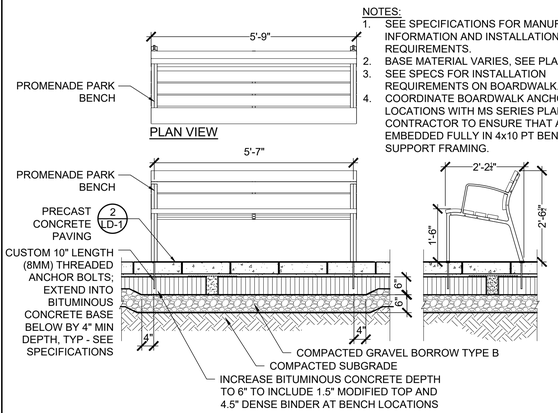
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

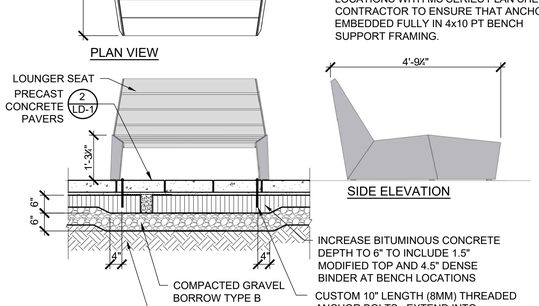
DRAWING NO.

LD-2



NOTES:
1. SEE SPECIFICATIONS FOR MANUFACTURER INFORMATION AND INSTALLATION REQUIREMENTS.
2. BASE MATERIAL VARIES, SEE PLAN.
3. SEE SPECS FOR INSTALLATION REQUIREMENTS ON BOARDWALK.
4. COORDINATE BOARDWALK ANCHORING LOCATIONS WITH MS SERIES PLAN SHEETS. CONTRACTOR TO ENSURE THAT ANCHOR IS EMBEDDED FULLY IN 4x10 PT BENCH SUPPORT FRAMING.

1 PROMENADE PARK BENCH
SCALE: 1/2" = 1'-0"



SIDE ELEVATION

NOTE:
1. SEE SPECIFICATIONS FOR MANUFACTURER INFORMATION AND INSTALLATION REQUIREMENTS.

PLAN VIEW - SINGLE BENCH

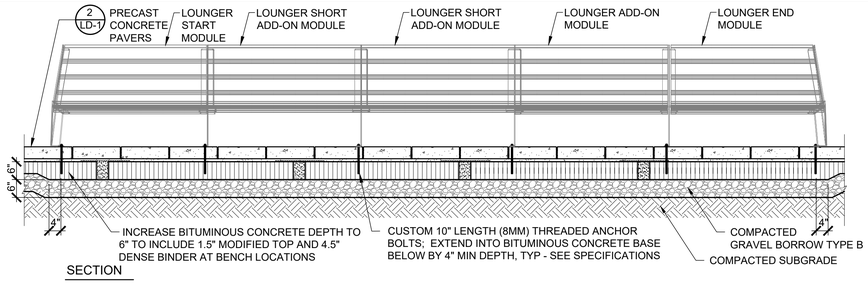
PLAN VIEW - DOUBLE BENCH

2 FEATURE BENCH
SCALE: 1/2" = 1'-0"

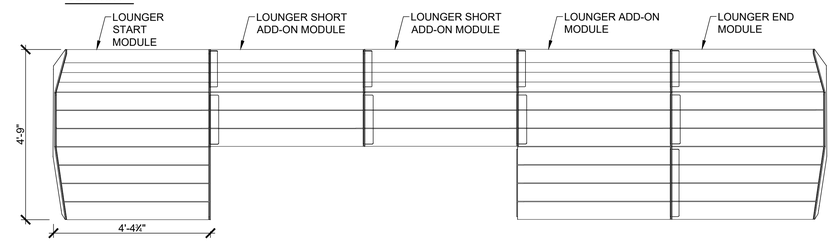
PLAN VIEW

NOTES:
1. SEE SPECIFICATIONS FOR MANUFACTURER INFORMATION AND INSTALLATION REQUIREMENTS.
2. BASE MATERIAL VARIES, SEE PLAN.
3. SEE SPECS FOR INSTALLATION REQUIREMENTS ON BOARDWALK.
4. COORDINATE BOARDWALK ANCHORING LOCATIONS WITH MS SERIES PLAN SHEETS. CONTRACTOR TO ENSURE THAT ANCHOR IS EMBEDDED FULLY IN 4x10 PT BENCH SUPPORT FRAMING.

3 LOUNGER
SCALE: 1/2" = 1'-0"



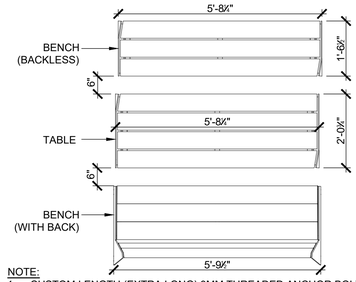
SECTION



PLAN VIEW

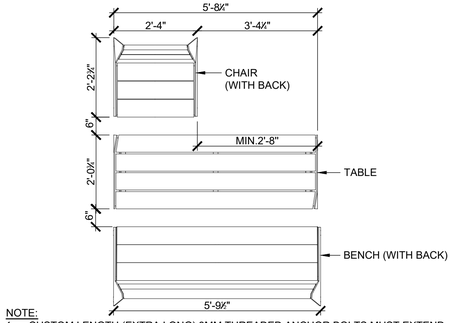
NOTES:
1. SEE SPECIFICATIONS FOR MANUFACTURER INFORMATION AND INSTALLATION REQUIREMENTS.
2. CONTRACTOR TO FURNISH AND INSTALL CUSTOM ANCHOR BOLTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. BENCH CONFIGURATION VARIES, SEE PLANS.
4. BASE MATERIALS VARIES, UNIT PAVING CONDITION SHOWN.
5. SEE MATERIALS PLAN FOR BENCH LOCATIONS AT BOARDWALK. REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS FOR ANCHORING TO BOARDWALK LOCATIONS.
6. COORDINATE BOARDWALK ANCHORING LOCATIONS WITH MS SERIES PLAN SHEETS CONTRACTOR TO ENSURE THAT ANCHOR IS EMBEDDED FULLY IN 4x10 PT BENCH SUPPORT FRAMING.

4 LOUNGER GROUPING
SCALE: 1/2" = 1'-0"



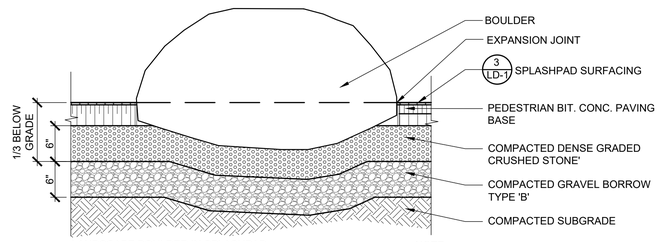
NOTE:
1. CUSTOM LENGTH (EXTRA LONG) 8MM THREADED ANCHOR BOLTS MUST EXTEND INTO BIT. CONCRETE BASE BELOW BY 2" MIN - SEE SPECIFICATIONS (AND DETAIL ABOVE).
2. SEE SPECIFICATIONS FOR MANUFACTURER INFORMATION AND INSTALLATION REQUIREMENTS.
3. SEE MATERIALS PLAN FOR BENCH LOCATIONS AT BOARDWALK. REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS FOR ANCHORING TO BOARDWALK LOCATIONS.
4. COORDINATE BOARDWALK ANCHORING LOCATIONS WITH MS SERIES PLAN SHEETS. CONTRACTOR TO ENSURE THAT ANCHOR IS EMBEDDED FULLY IN 4X10 PT BENCH SUPPORT FRAMING.

5 PICNIC TABLE GROUP
SCALE: 1/2" = 1'-0"



NOTE:
1. CUSTOM LENGTH (EXTRA LONG) 8MM THREADED ANCHOR BOLTS MUST EXTEND INTO BIT. CONCRETE BASE BELOW BY 2" MIN - SEE SPECIFICATIONS
2. SEE SPECIFICATIONS FOR MANUFACTURER INFORMATION AND INSTALLATION REQUIREMENTS.
3. BASE MATERIALS VARIES, UNIT PAVING CONDITION SHOWN.
4. SEE MATERIALS PLAN FOR BENCH LOCATIONS AT BOARDWALK. REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS FOR ANCHORING TO BOARDWALK LOCATIONS.
5. COORDINATE BOARDWALK ANCHORING LOCATIONS WITH MS SERIES. CONTRACTOR TO ENSURE THAT ANCHOR IS EMBEDDED FULLY IN 4X10 PT BENCH SUPPORT FRAMING.

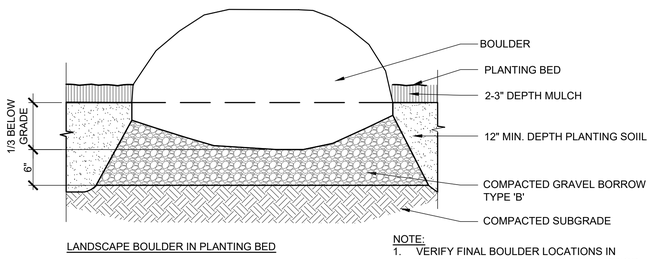
PICNIC TABLE GROUP (WHEELCHAIR ACCESSIBLE) 6
SCALE: 1/2" = 1'-0"



LANDSCAPE BOULDER IN SPLASHPAD

NOTE:
1. VERIFY FINAL BOULDER LOCATIONS IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO FINAL INSTALLATION

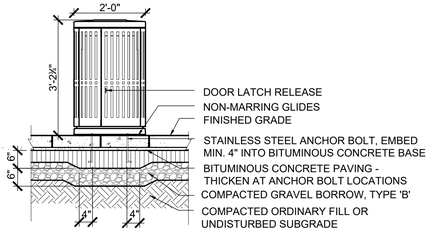
8 LANDSCAPE BOULDER
SCALE: 1" = 1'-0"



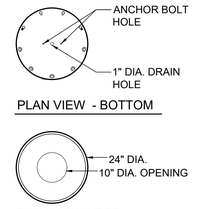
LANDSCAPE BOULDER IN PLANTING BED

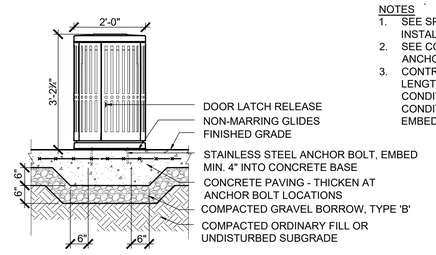
NOTE:
1. VERIFY FINAL BOULDER LOCATIONS IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO FINAL INSTALLATION

7 TRASH RECEPTACLE
SCALE: 1/2" = 1'-0"



PRECAST CONCRETE PAVER CONDITION

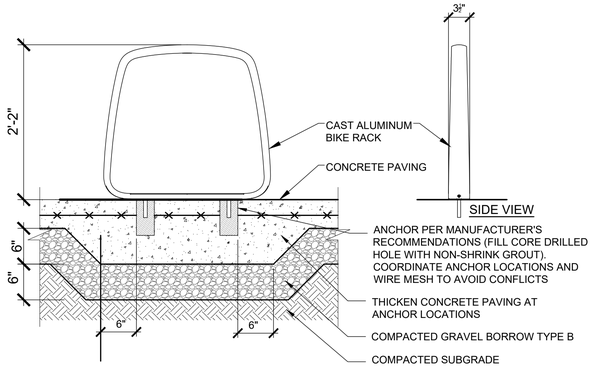




CONCRETE PAVING CONDITION

NOTES
1. SEE SPECIFICATIONS FOR MANUFACTURER INSTALLATION REQUIREMENTS.
2. SEE COASTAL ENGINEER PLANS FOR ANCHORING AT BOARDWALK LOCATIONS
3. CONTRACTOR TO PROVIDE AND INSTALL LENGTHENED ANCHORS AT UNIT PAVING CONDITION. ANCHOR BOLTS AT UNIT PAVING CONDITION SHALL HAVE MINIMUM 2" EMBEDMENT DEPTH INTO CONCRETE BASE.

9 BIKE RACK
SCALE: 1" = 1'-0"



SIDE VIEW

NOTES:
1. EMBED BIKE RACK IN CONCRETE (2" MIN. DEPTH) ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

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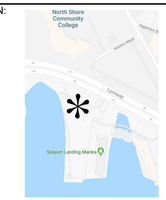
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Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

FURNISHING DETAILS

SHEET 3 OF 12

ACCESSION #:104956x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

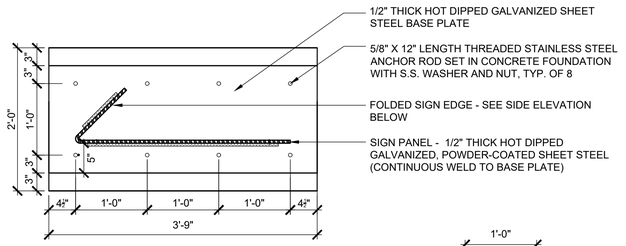
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

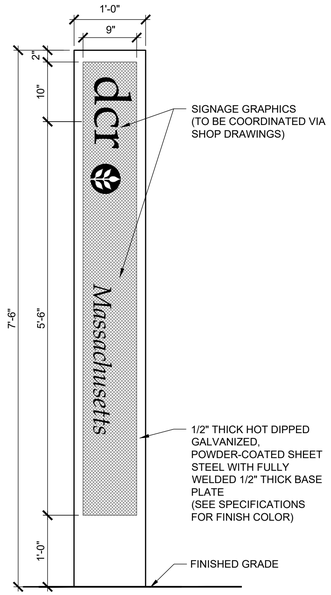
SUBMISSION: BID SET

DRAWING NO.

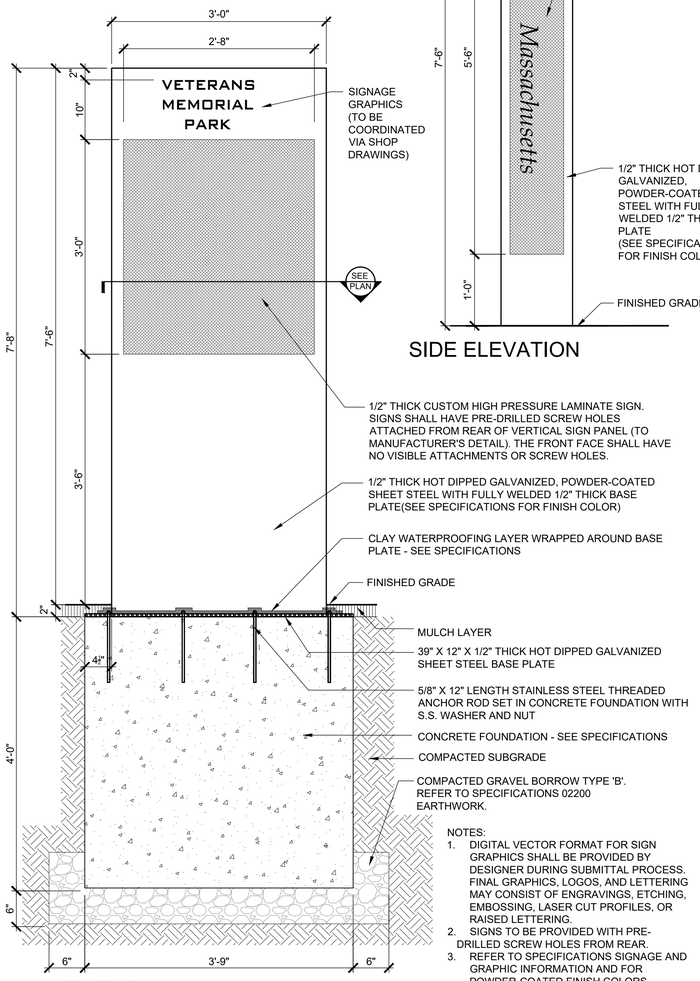
LD-3



PLAN



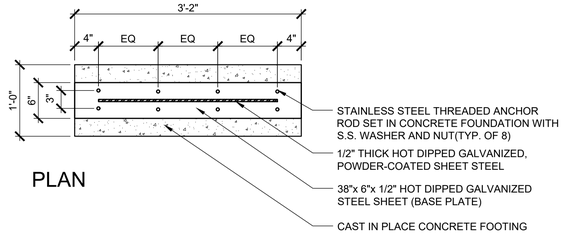
SIDE ELEVATION



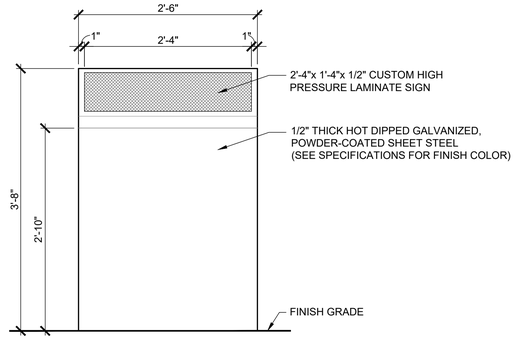
NOTES:
1. DIGITAL VECTOR FORMAT FOR SIGN GRAPHICS SHALL BE PROVIDED BY DESIGNER DURING SUBMITTAL PROCESS. FINAL GRAPHICS, LOGOS, AND LETTERING MAY CONSIST OF ENGRAVINGS, ETCHING, EMBOSSING, LASER CUT PROFILES, OR RAISED LETTERING.
2. SIGNS TO BE PROVIDED WITH PRE-DRILLED SCREW HOLES FROM REAR.
3. REFER TO SPECIFICATIONS SIGNAGE AND GRAPHIC INFORMATION AND FOR POWDER-COATED FINISH COLORS.

SECTION

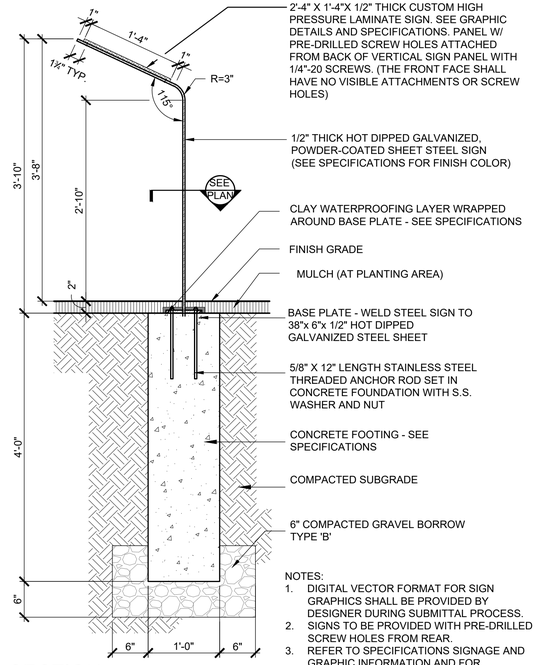
1 PARK SIGN
SCALE: 1" = 1'-0"



PLAN



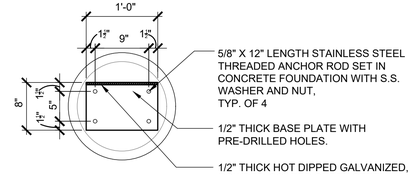
ELEVATION



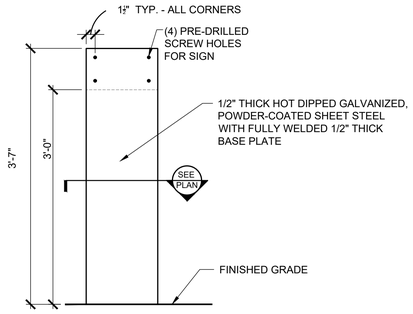
NOTES:
1. DIGITAL VECTOR FORMAT FOR SIGN GRAPHICS SHALL BE PROVIDED BY DESIGNER DURING SUBMITTAL PROCESS.
2. SIGNS TO BE PROVIDED WITH PRE-DRILLED SCREW HOLES FROM REAR.
3. REFER TO SPECIFICATIONS SIGNAGE AND GRAPHIC INFORMATION AND FOR POWDER-COATED FINISH COLORS.

SECTION

2 INTERPRETIVE SIGN
SCALE: 1" = 1'-0"

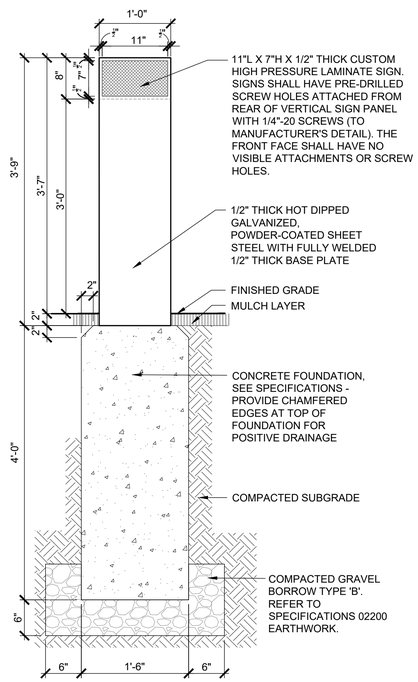


PLAN

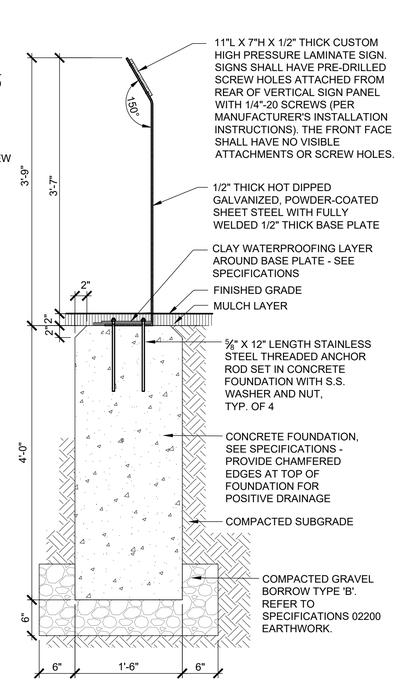


REAR ELEVATION

NOTES:
1. DIGITAL VECTOR FORMAT FOR SIGN GRAPHICS SHALL BE PROVIDED BY DESIGNER DURING SUBMITTAL PROCESS.
2. SIGNS TO BE PROVIDED WITH PRE-DRILLED SCREW HOLES FROM REAR.
3. REFER TO SPECIFICATIONS SIGNAGE AND GRAPHIC INFORMATION AND FOR POWDER-COATED FINISH COLORS.



FRONT SECTION



SIDE SECTION

3 WAYFINDING SIGN
SCALE: 1" = 1'-0"

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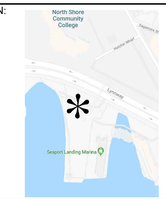
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KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

SIGNAGE DETAILS

SHEET 4 OF 12

ACCESSION #:104957x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

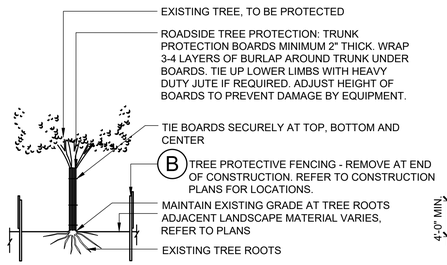
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

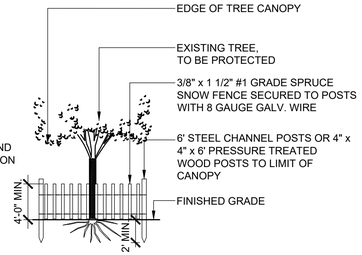
SUBMISSION: BID SET

DRAWING NO.

LD-4



A ROADSIDE TREE PROTECTION/TRUNK AND ROOT

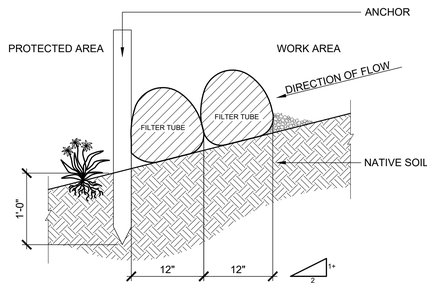


B TREE PROTECTION FENCING

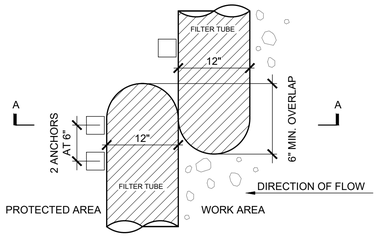
NOTES:

1. INSTALLATION OF FENCING SHALL BE COMPLETED BEFORE CONSTRUCTION VEHICLES ACCESS THE SITE OR ANY OTHER SITE PREPARATION, DEMOLITION, SALVAGE OR CONSTRUCTION COMMENCES.
2. TREE ROOTS SHOULD BE PROTECTED AT LEAST TO THE DRIPLINE (EDGE OF CANOPY) OR AS SHOWN ON PLANS. LAYOUT SHALL BE REVIEWED ON SITE WITH ARBORIST AND LANDSCAPE ARCHITECT.
3. REMOVE ALL BURLAP, BOARDS, TIES AND FENCING IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION FOR FINAL ACCEPTANCE.
4. ALL TREES IMPACTED BY CONSTRUCTION SHALL BE PRUNED, DEEP ROOT WATERED, FERTILIZED AND MULCHED (AS REQUIRED), REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

1 TREE PROTECTION FENCING
SCALE: 1/8" = 1'-0"

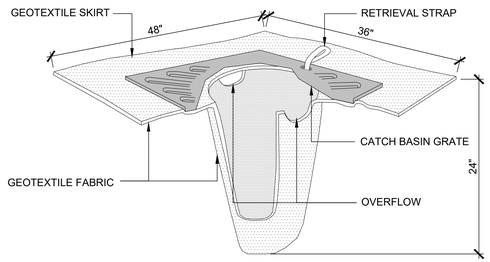


OVERLAP SECTION A-A



PLAN

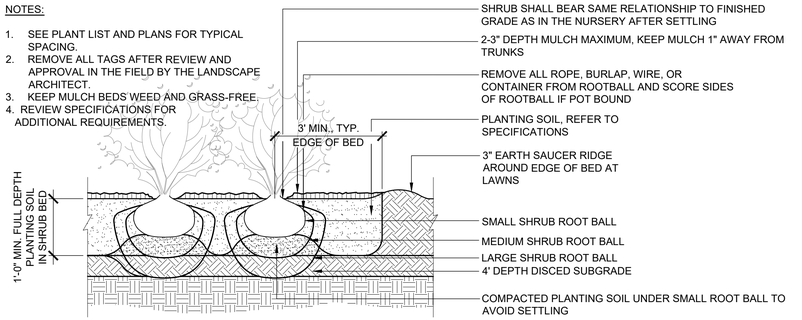
2 FILTER TUBE FOR EROSION CONTROL
SCALE: 1" = 1'-0"



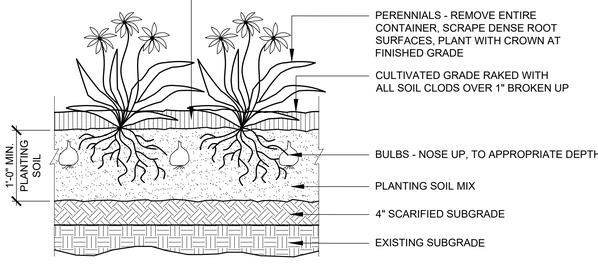
3 SILT SACK
SCALE: NOT TO SCALE

NOTES:

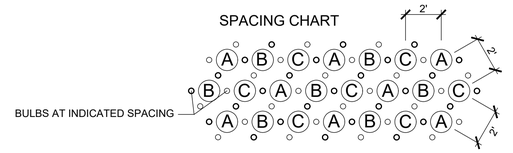
1. SEE PLANT LIST AND PLANS FOR TYPICAL SPACING.
2. REMOVE ALL TAGS AFTER REVIEW AND APPROVAL IN THE FIELD BY THE LANDSCAPE ARCHITECT.
3. KEEP MULCH BEDS WEED AND GRASS-FREE.
4. REVIEW SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



4 SHRUB PLANTING
SCALE: 1/2" = 1'-0"



SPACING CHART

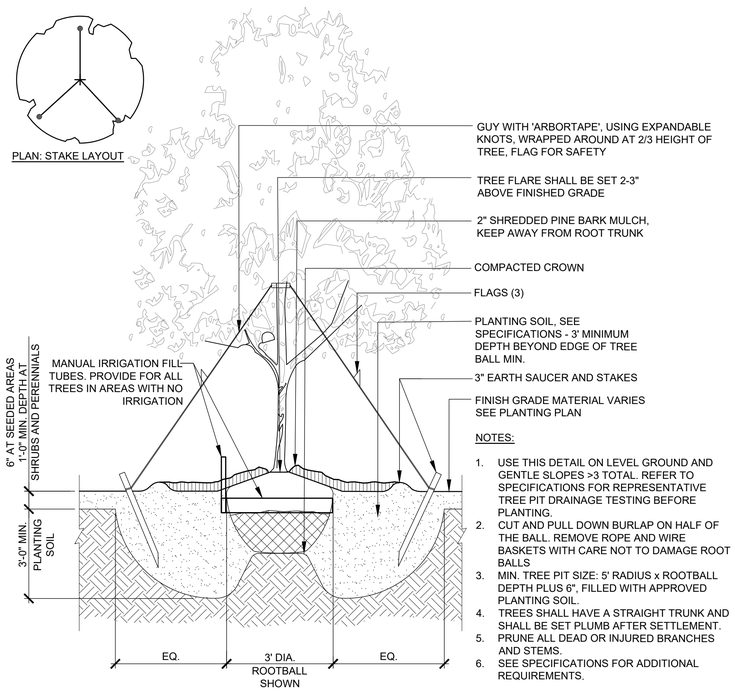


NOTES:

1. SYMBOLS REFER TO VARIOUS PLANT TYPES, REFER TO PLANT LIST.
2. PLANT PERENNIALS AT SPACING INDICATED ON THE PLANT LIST, USING THE LAYOUT ABOVE, AS REVIEWED IN FIELD BY LANDSCAPE ARCHITECT.
3. BULBS RANDOMLY AND EQUALLY DISTRIBUTED AT AVERAGE OF 6± IN DRIFTS OF NOT LESS THAN 10± BULBS OF SAME SPECIES. REQUIRE 2.6 BULBS/SQ. FT. OF ALL TYPES COMBINED.
4. PLANT GROUND COVER AT SPACING INDICATED ON THE PLANT LIST.
5. REVIEW LAYOUT IN FIELD WITH LANDSCAPE ARCHITECT BEFORE PLANTING. REFER TO SPECIFICATIONS.

5 GROUNDCOVER, PERENNIAL AND BULB PLANTING
SCALE: 1" = 1'-0"

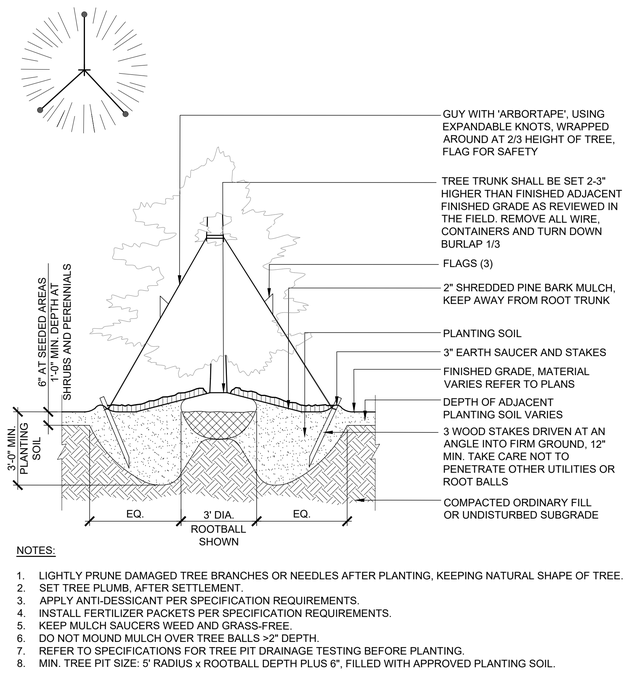
PLAN: STAKE LAYOUT



NOTES:

1. USE THIS DETAIL ON LEVEL GROUND AND GENTLE SLOPES >3 TOTAL. REFER TO SPECIFICATIONS FOR REPRESENTATIVE TREE PIT DRAINAGE TESTING BEFORE PLANTING.
2. CUT AND PULL DOWN BURLAP ON HALF OF THE BALL. REMOVE ROPE AND WIRE BASKETS WITH CARE NOT TO DAMAGE ROOT BALLS
3. MIN. TREE PIT SIZE: 5' RADIUS x ROOTBALL DEPTH PLUS 6", FILLED WITH APPROVED PLANTING SOIL.
4. TREES SHALL HAVE A STRAIGHT TRUNK AND SHALL BE SET PLUMB AFTER SETTLEMENT.
5. PRUNE ALL DEAD OR INJURED BRANCHES AND STEMS.
6. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

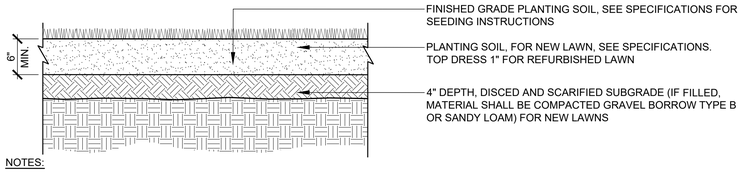
6 DECIDUOUS TREE PLANTING
SCALE: 1/2" = 1'-0"



NOTES:

1. LIGHTLY PRUNE DAMAGED TREE BRANCHES OR NEEDLES AFTER PLANTING, KEEPING NATURAL SHAPE OF TREE.
2. SET TREE PLUMB, AFTER SETTLEMENT.
3. APPLY ANTI-DESSICANT PER SPECIFICATION REQUIREMENTS.
4. INSTALL FERTILIZER PACKETS PER SPECIFICATION REQUIREMENTS.
5. KEEP MULCH SAUCERS WEED AND GRASS-FREE.
6. DO NOT MOUND MULCH OVER TREE BALLS >2" DEPTH.
7. REFER TO SPECIFICATIONS FOR TREE PIT DRAINAGE TESTING BEFORE PLANTING.
8. MIN. TREE PIT SIZE: 5' RADIUS x ROOTBALL DEPTH PLUS 6", FILLED WITH APPROVED PLANTING SOIL.

7 EVERGREEN TREE PLANTING
SCALE: 3/8" = 1'-0"



NOTES:

1. PLANTING SOIL DEPTH, NEW LAWN, SHALL BE 6" MINIMUM, VARIATIONS TO DEPTH MAY OCCUR ONLY AFTER REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.
2. SEE PLANTING PLAN AND SPECIFICATIONS FOR SEED MIXES AND APPLICATION RATES.
3. PROTECTIVE FENCING SHALL BE ERECTED AND MAINTAINED AT PERIMETER OF ALL SODDED AND SEEDED AREAS UNTIL FINAL ACCEPTANCE.
4. FOR REFURBISHED LAWN AREAS, WEED EXISTING LAWN, RAKE EXISTING TOPSOIL, TOP DRESS WITH 1" NEW PLANTING SOIL AND SEED BARE SPOTS WITH APPROVED SEED MIXES. PROTECT UNTIL ACCEPTANCE.

8 SEEDED LAWN (NEW OR REFURBISHED)
SCALE: 1" = 1'-0"

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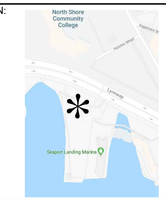
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VETERANS MEMORIAL PARK
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Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

SITE PREP + PLANTING DETAILS

SHEET 5 OF 12

ACCESSION #:104958x

DESIGNED: DA

DRAWN: PS/AN/HV CHECKED: DA

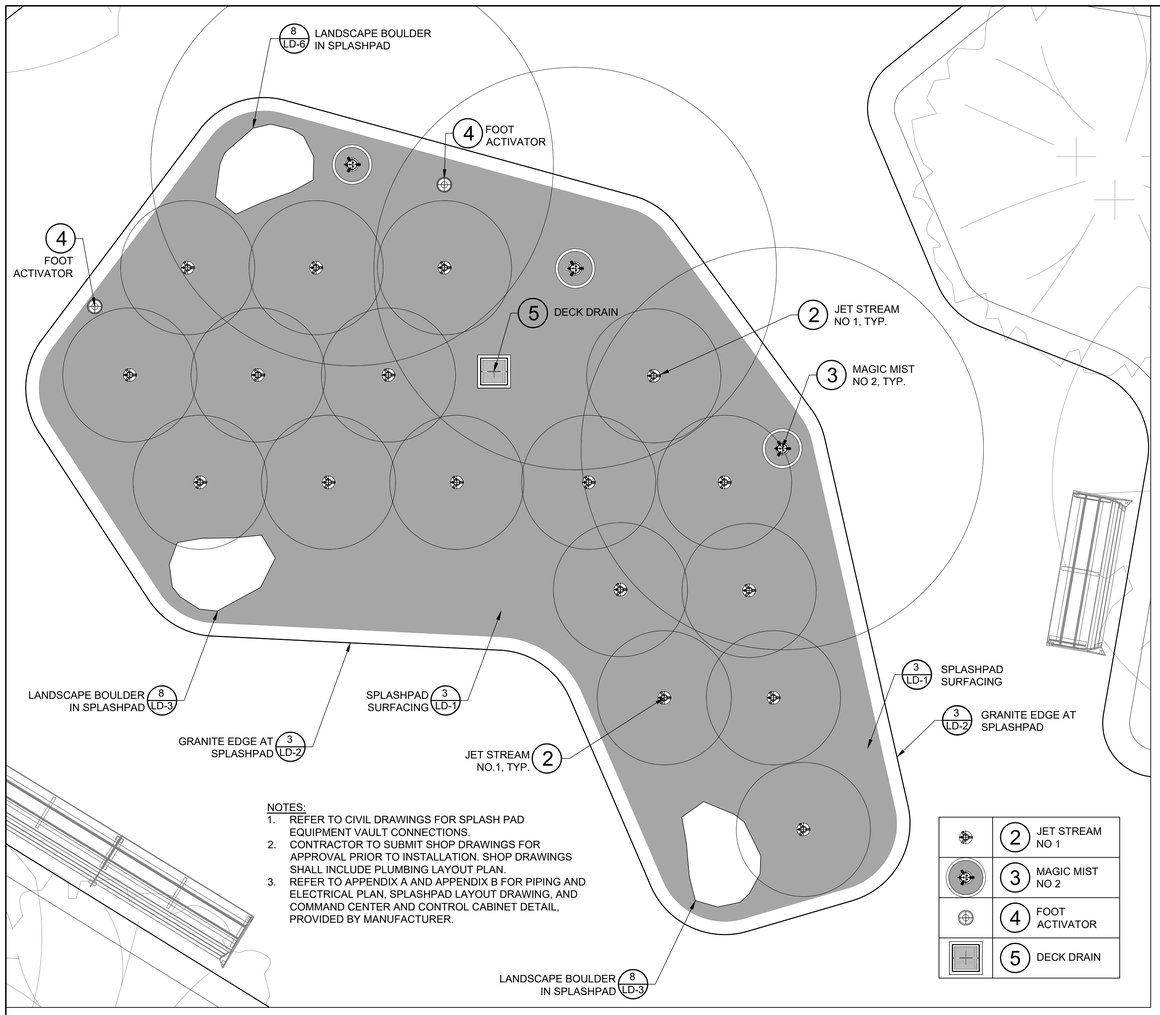
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

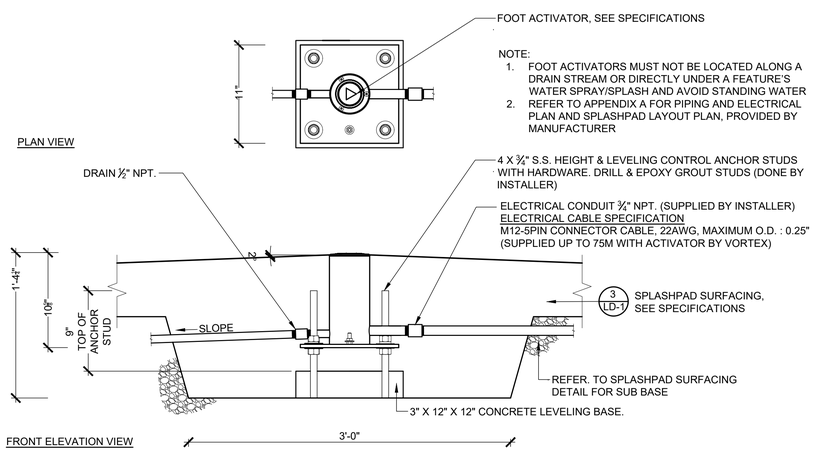
DRAWING NO.

LD-5

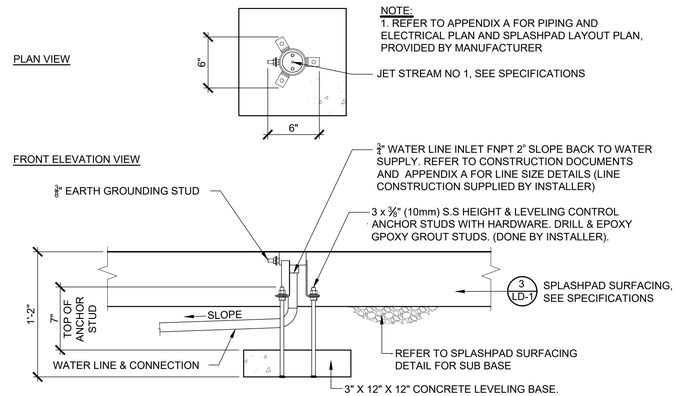


NOTES:
1. REFER TO CIVIL DRAWINGS FOR SPLASH PAD EQUIPMENT VAULT CONNECTIONS.
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION. SHOP DRAWINGS SHALL INCLUDE PLUMBING LAYOUT PLAN.
3. REFER TO APPENDIX A AND APPENDIX B FOR PIPING AND ELECTRICAL PLAN, SPLASHPAD LAYOUT DRAWING, AND COMMAND CENTER AND CONTROL CABINET DETAIL, PROVIDED BY MANUFACTURER.

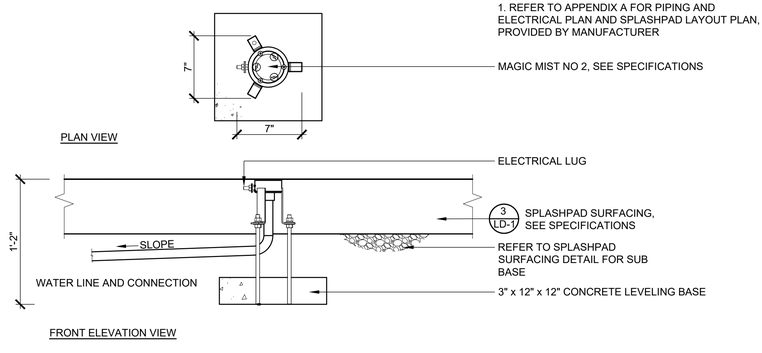
1 SPLASHPAD SPRINKLER LAYOUT
SCALE: 3/8"=1'-0"



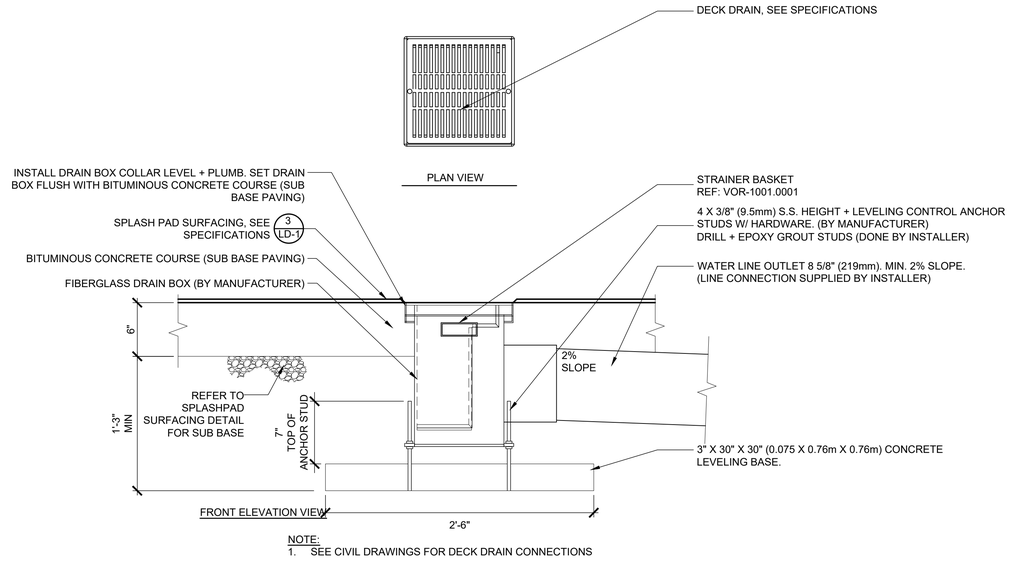
4 FOOT ACTIVATOR
SCALE: 1-1/2"=1'-0"



2 JET STREAM No 1
SCALE: 1-1/2"=1'-0"



3 MAGIC MIST No 2
SCALE: 1-1/2"=1'-0"



NOTE:
1. SEE CIVIL DRAWINGS FOR DECK DRAIN CONNECTIONS

5 DECK DRAIN
SCALE: 1-1/2"=1'-0"

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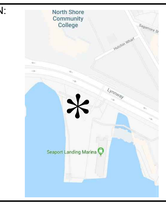
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VETERANS MEMORIAL PARK
WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

SPLASH PAD DETAILS

SHEET 6 OF 12

ACCESSION #:104959x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

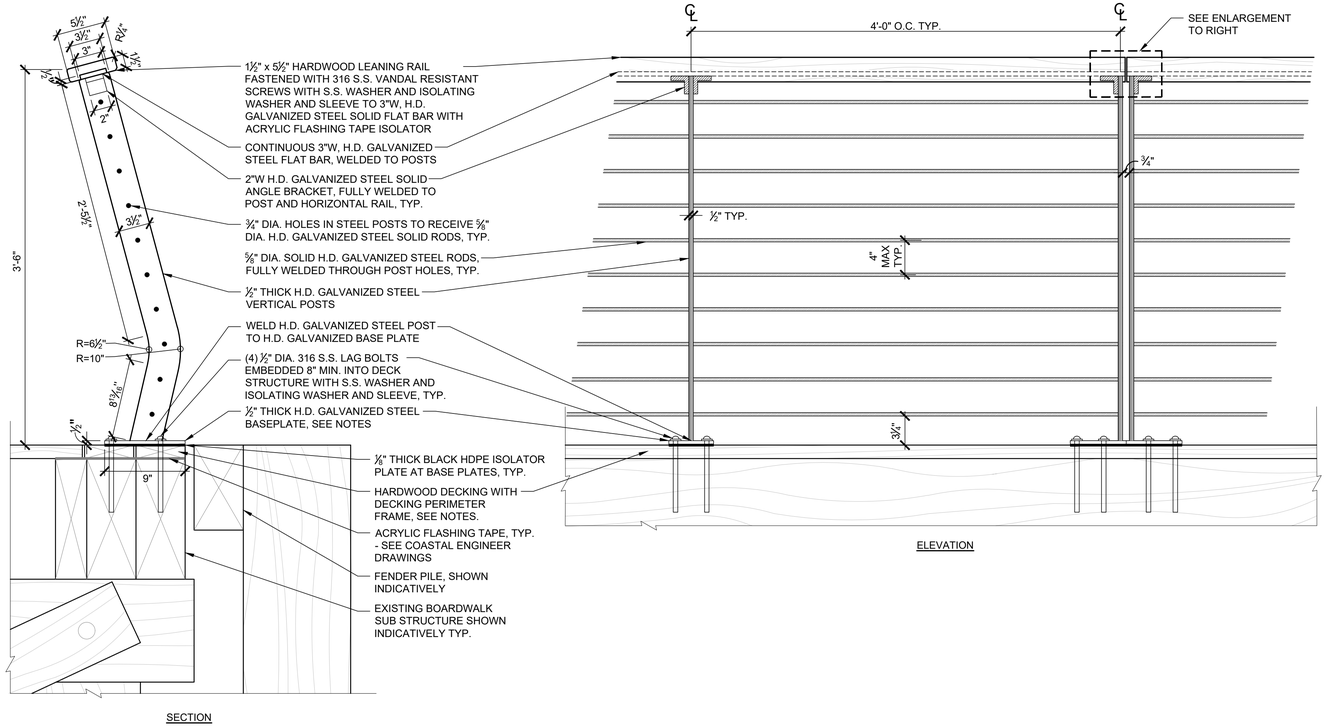
SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

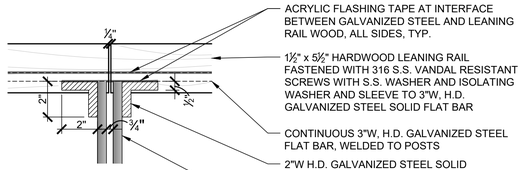
LD-6

NOTES:
1. ALL STEEL IS HOT-DIPPED GALVANIZED. SEE SPECIFICATIONS FOR WELDING AND COATING REQUIREMENTS.
2. BASEPLATE DIMENSIONS VARY BY LOCATION, REFER TO MATERIALS PLANS FOR BASEPLATE TYPE AND LD-9 FOR DIMENSIONS.
3. PROVIDE S.S. WASHER AND ISOLATING WASHER AND SLEEVE AT ALL S.S. AND H.D. GALVANIZED STEEL CONNECTIONS, TYP.
4. ALL STAINLESS STEEL (S.S.) LAG BOLTS AND SCREWS SHALL BE 316L OR 316A4 STAINLESS STEEL, TYP.
5. TYPICAL CONTINUOUS RAILING UNITS FABRICATED AS 12'-0" LONG SEGMENTS WITH POSTS LOCATED AT 4'-0" ON CENTER. ALL TYPICAL AND CUSTOM RAILING UNIT LENGTHS TO BE VERIFIED IN FIELD BY CONTRACTOR AND REVIEWED IN SHOP DRAWINGS AND IN THE FIELD WITH LANDSCAPE ARCHITECT BEFORE FABRICATION.
6. ALL BARRIER AND RAILINGS SHALL MEET STRUCTURAL PERFORMANCE REQUIREMENTS AND CONFORM WITH ADA AND MAAB REQUIREMENTS, INCLUDING DIMENSIONS AND NUMBER OF PIPE HANDRAILS, ALLOWABLE RAILING HEIGHTS, MINIMUM/MAXIMUM OPENING WIDTHS, EXTENSION AT TOP AND BOTTOM OF STAIRS AND CLEARANCE DIMENSIONS, SEE SPECIFICATIONS.
7. COORDINATE ALL RAILING AND BASEPLATE SHOP DRAWINGS WITH BOARDWALK, STEP, AND RAMP DRAWINGS. SHOP DRAWINGS SHALL DEMONSTRATE RELATIONSHIP BETWEEN ALL RAILING/BARRIER COMPONENTS AND BOARDWALK SUBSTRUCTURE AND DECKING DESIGN.
8. REFER TO COASTAL ENGINEERS' DRAWINGS FOR ALL BASEPLATE CONNECTIONS TO BOARDWALK.
9. DECKING PERIMETER FRAME SHOWN FOR REFERENCE ONLY. PERIMETER DECKING FRAME PATTERN AND BOARD SIZING VARIES. REFER TO COASTAL ENGINEER'S DRAWINGS FOR REQUIRED PERIMETER DECKING FRAME SIZES AND ARRANGEMENT.
10. ACRYLIC FLASHING TAPE OR BLACK HDPE ISOLATOR PLATE TO BE PROVIDED BETWEEN ALL WOOD AND GALVANIZED STEEL INTERFACES. REFER TO DETAILS FOR LOCATIONS AND TYPE OF ISOLATION MATERIAL.
11. RAILING CONNECTION USING LAG BOLTS TO TIMBER SUBSTRUCTURE SHOWN. FOR CONNECTIONS TO STEEL SUBSTRUCTURE USING THRU-BOLTS, REFER TO COASTAL ENGINEERING DRAWINGS.

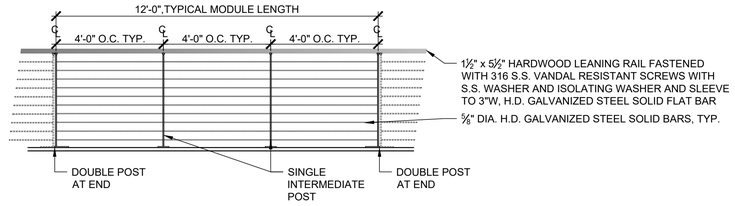


SECTION

ELEVATION



ENLARGEMENT
LEANING RAIL
CONNECTION ENLARGEMENT
SCALE: 3" = 1'-0"



FABRICATION DIAGRAM
DIMENSIONS

1 WATERSIDE BARRIER WITH LEANING RAIL

SCALE: 1 1/2" = 1'-0"

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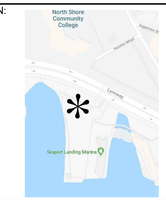
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

RAILINGS - WATERSIDE
TYPICAL POSTS
SHEET 7 OF 12

ACCESSION #:104960x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

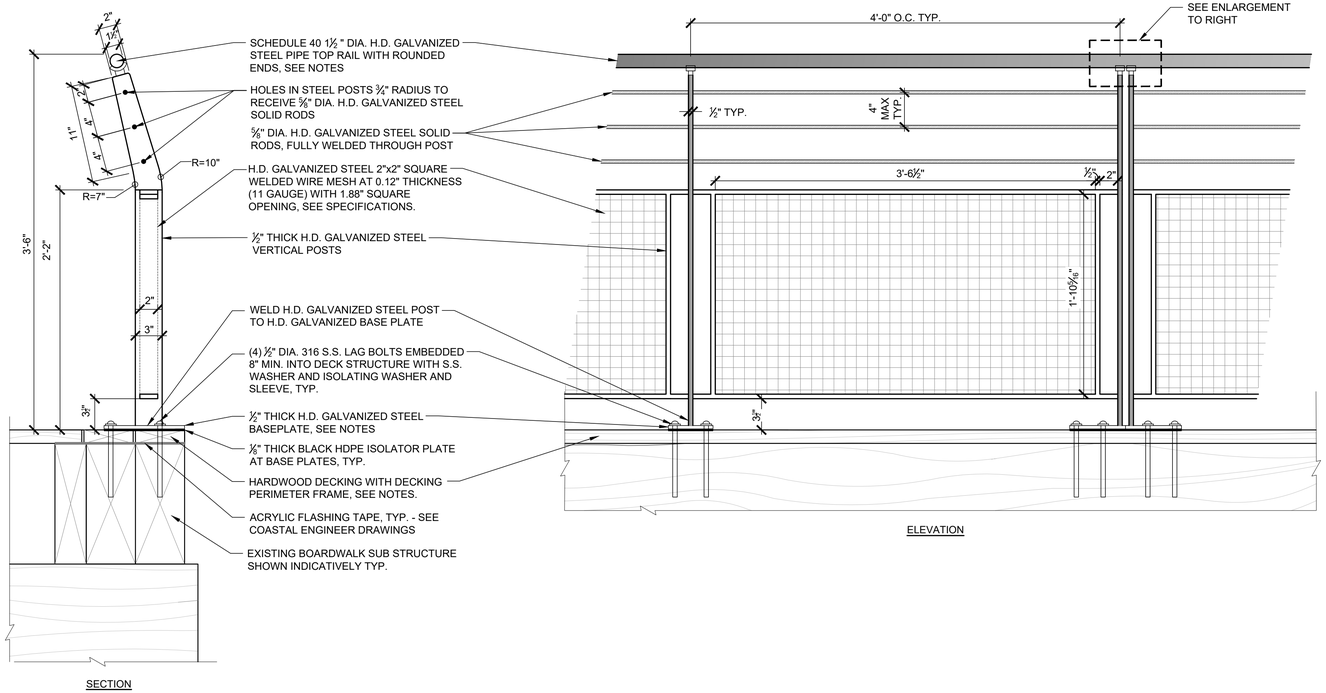
SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

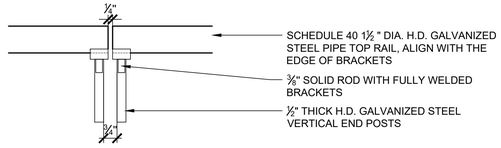
LD-7

NOTES:
1. ALL STEEL IS HOT-DIPPED GALVANIZED. SEE SPECIFICATIONS FOR WELDING AND COATING REQUIREMENTS.
2. BASEPLATE DIMENSIONS VARY BY LOCATION, REFER TO MATERIALS PLANS FOR BASEPLATE TYPE AND LD-9 FOR DIMENSIONS.
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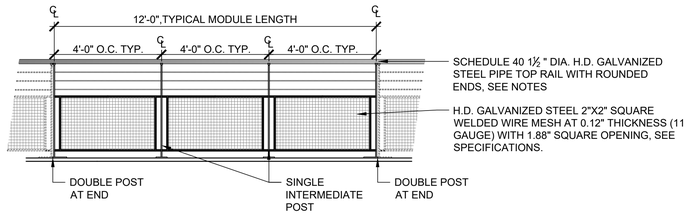


SECTION

ELEVATION



ENLARGEMENT
TOP RAIL CONNECTION ENLARGEMENT
SCALE: 3" = 1'-0"



FABRICATION DIAGRAM
DIMENSIONS

1 LANDSIDE BARRIER
SCALE: 1 1/2" = 1'-0"

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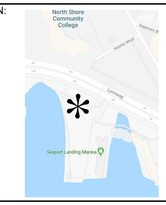
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VETERANS MEMORIAL PARK
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Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

RAILINGS - LANDSIDE TYPICAL POSTS

SHEET 8 OF 12

ACCESSION #:104961x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

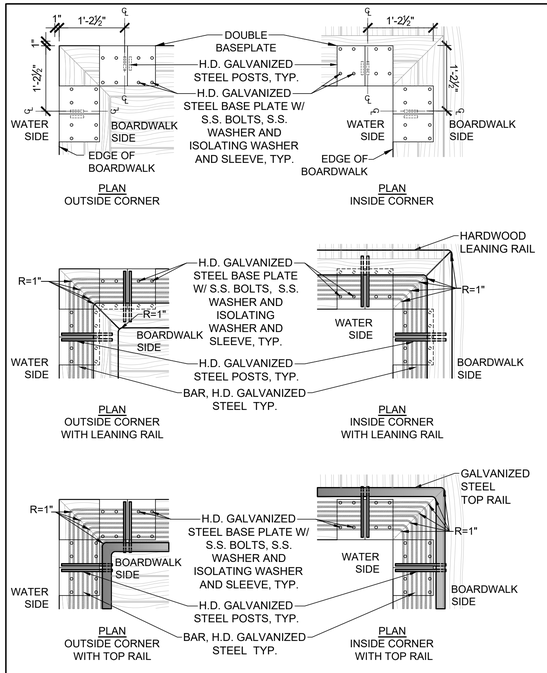
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

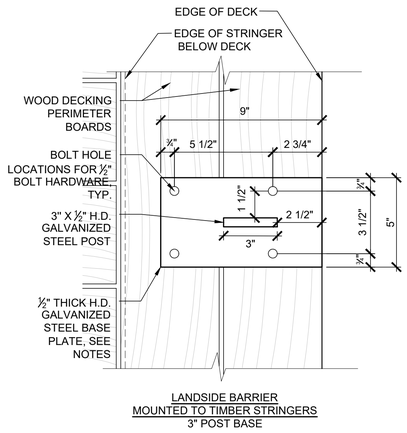
DRAWING NO.

LD-8



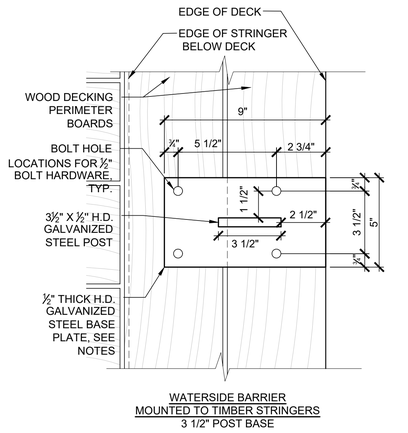
1 WATERSIDE BARRIER AT CORNERS
SCALE: 3/4" = 1'-0"

DETAIL 2 NOT USED



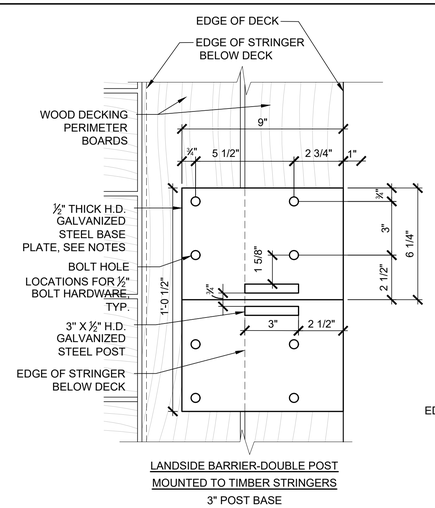
LANDSIDE BARRIER
MOUNTED TO TIMBER STRINGERS
3" POST BASE

4 BASEPLATE TYPE 1
SCALE: 3" = 1'-0"



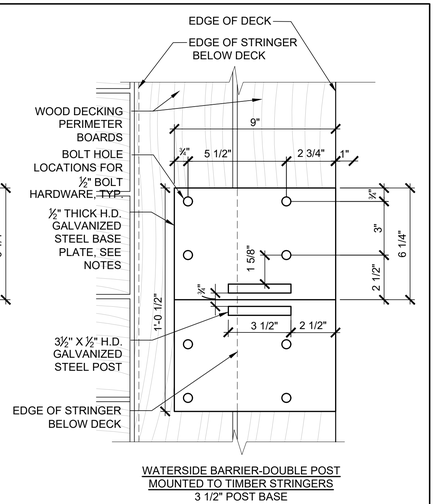
WATERSIDE BARRIER
MOUNTED TO TIMBER STRINGERS
3 1/2" POST BASE

5 BASEPLATE TYPE 2
SCALE: 3" = 1'-0"



LANDSIDE BARRIER-DOUBLE POST
MOUNTED TO TIMBER STRINGERS
3" POST BASE

6 BASEPLATE TYPE 3
SCALE: 3" = 1'-0"



WATERSIDE BARRIER-DOUBLE POST
MOUNTED TO TIMBER STRINGERS
3 1/2" POST BASE

7 BASEPLATE TYPE 4
SCALE: 3" = 1'-0"

LANDSIDE BARRIER
MOUNTED TO W18 FLANGE
3" POST BASE

8 BASEPLATE TYPE 5
SCALE: 3" = 1'-0"

WATERSIDE BARRIER
MOUNTED TO W18 FLANGE
3 1/2" POST BASE

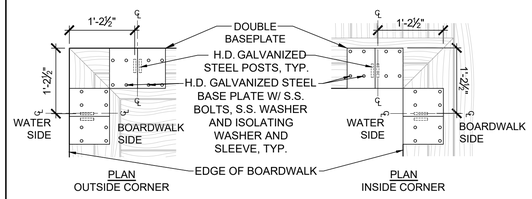
9 BASEPLATE TYPE 6
SCALE: 3" = 1'-0"

LANDSIDE BARRIER-DOUBLE POST
MOUNTED TO W18 FLANGE
3" POST BASE

10 BASEPLATE TYPE 7
SCALE: 3" = 1'-0"

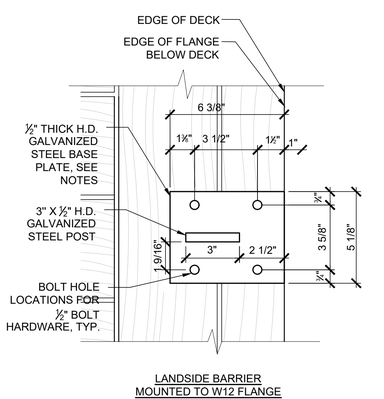
WATERSIDE BARRIER-DOUBLE POST
MOUNTED TO W18 FLANGE
3 1/2" POST BASE

11 BASEPLATE TYPE 8
SCALE: 3" = 1'-0"



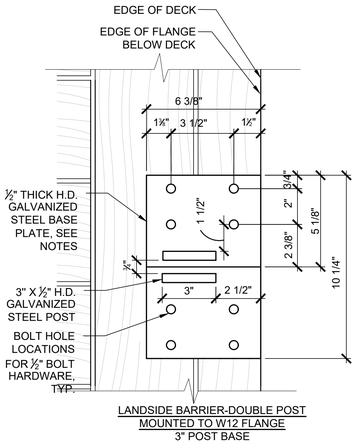
NOTE:
REFER TO DETAIL 5, SHEET LD-10 FOR CORNER CONDITION REQUIRING HORIZONTAL INFILL BARS AT 2" O.C. SPACING TO DETER CLIMBING.

3 LANDSIDE BARRIER AT CORNERS
SCALE: 3/4" = 1'-0"



LANDSIDE BARRIER
MOUNTED TO W12 FLANGE
3" POST BASE

12 BASEPLATE TYPE 9
SCALE: 3" = 1'-0"



LANDSIDE BARRIER-DOUBLE POST
MOUNTED TO W12 FLANGE
3" POST BASE

13 BASEPLATE TYPE 10
SCALE: 3" = 1'-0"

NOTES FOR ALL BASE PLATE DETAILS, THIS SHEET:

1. ALL STEEL IS HOT-DIPPED GALVANIZED. SEE SPECIFICATIONS FOR WELDING AND COATING REQUIREMENTS.
2. H.D. GALVANIZED BASEPLATE DIMENSIONS VARY BY LOCATION, REFER TO MATERIALS PLANS FOR BASEPLATE TYPE AND LD-9 FOR DIMENSIONS.
3. ALL STAINLESS STEEL (S.S.) BOLTS AND SCREWS SHALL BE TYPE 316L OR 316A4 STAINLESS STEEL, TYP.
4. COORDINATE ALL RAILING AND BASEPLATE SHOP DRAWINGS WITH BOARDWALK, STEP, AND RAMP DRAWINGS. SHOP DRAWINGS SHALL DEMONSTRATE RELATIONSHIP BETWEEN ALL RAILING/BARRIER COMPONENTS AND BOARDWALK SUBSTRUCTURE AND DECKING DESIGN.
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8. REFER TO DETAIL 5, SHEET LD-10 FOR CORNER CONDITION REQUIRING HORIZONTAL INFILL BARS AT 2" O.C. SPACING TO DETER CLIMBING.

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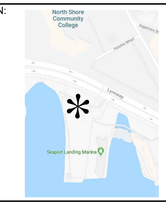
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WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
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for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

RAILINGS - CORNERS + BASE PLATES
SHEET 9 OF 12

ACCESSION #:104962x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

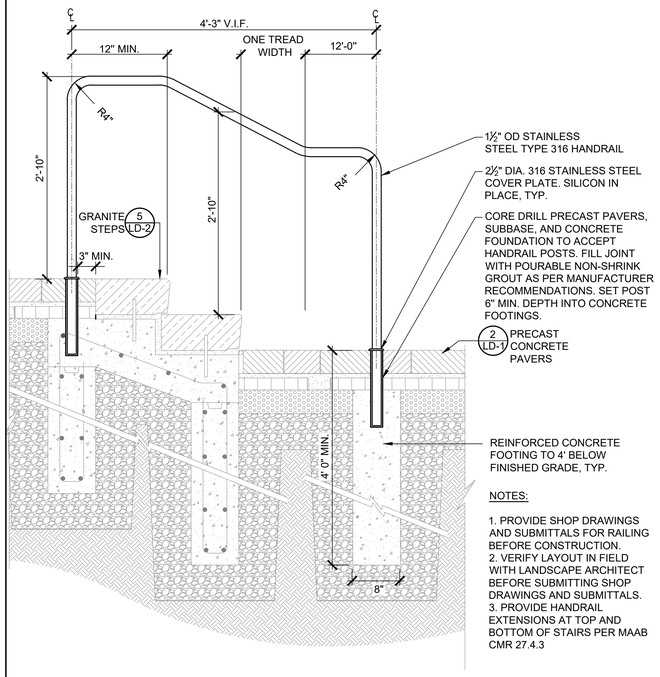
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

LD-9

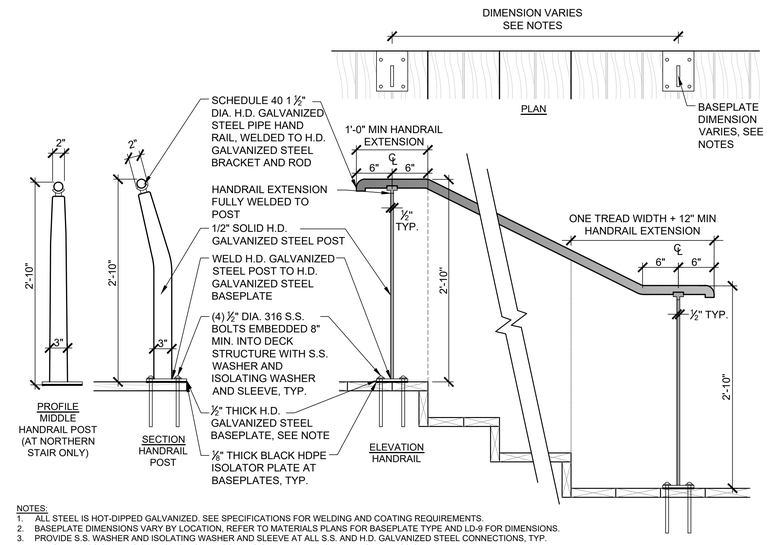


NOTES:

1. PROVIDE SHOP DRAWINGS AND SUBMITTALS FOR RAILING BEFORE CONSTRUCTION.
2. VERIFY LAYOUT IN FIELD WITH LANDSCAPE ARCHITECT BEFORE SUBMITTING SHOP DRAWINGS AND SUBMITTALS.
3. PROVIDE HANDRAIL EXTENSIONS AT TOP AND BOTTOM OF STAIRS PER MAAB CMR 27.4.3

1 HANDRAIL AT PLAZA GRANITE STEPS

SCALE: 1" = 1'-0"

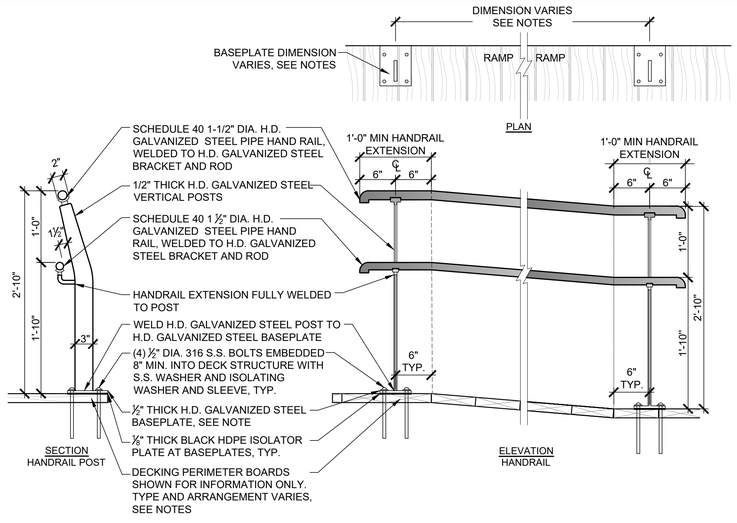


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2 HANDRAIL AT BOARDWALK STAIR

SCALE: 1" = 1'-0"

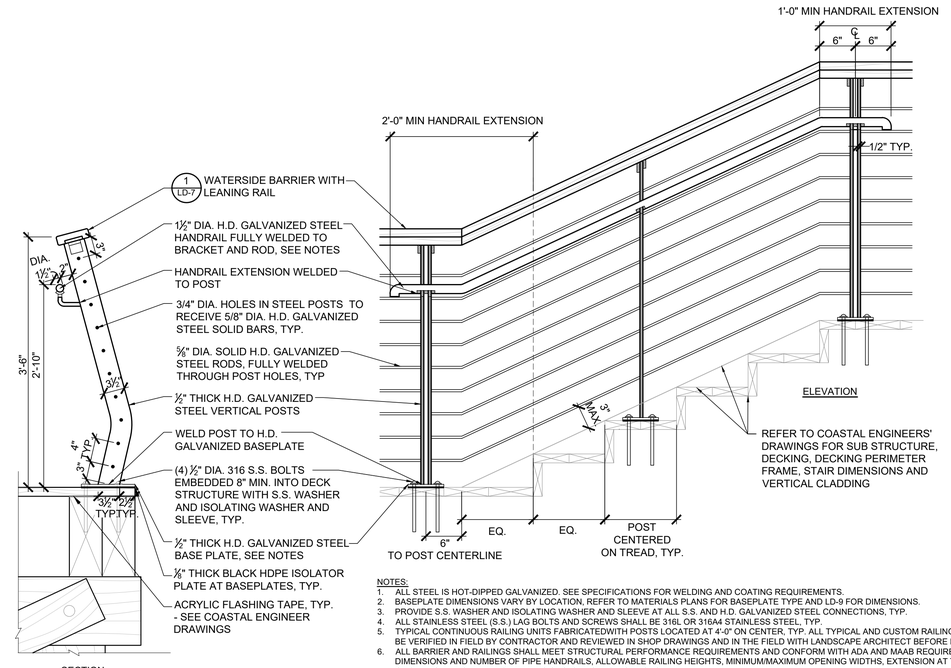


NOTES:

1. ALL STEEL IS HOT-DIPPED GALVANIZED. SEE SPECIFICATIONS FOR WELDING AND COATING REQUIREMENTS.
2. BASEPLATE DIMENSIONS VARY BY LOCATION, REFER TO MATERIALS PLANS FOR BASEPLATE TYPE AND LD-9 FOR DIMENSIONS.
3. PROVIDE S.S. WASHER AND ISOLATING WASHER AND SLEEVE AT ALL S.S. AND H.D. GALVANIZED STEEL CONNECTIONS, TYP.
4. ALL STAINLESS STEEL (S.S.) LAG BOLTS AND SCREWS SHALL BE 316L OR 316A4 STAINLESS STEEL, TYP.
5. TYPICAL CONTINUOUS RAILING UNITS FABRICATED WITH POSTS LOCATED AT 4'-0" ON CENTER, TYP. ALL TYPICAL AND CUSTOM RAILING UNIT LENGTHS TO BE VERIFIED IN FIELD BY CONTRACTOR AND REVIEWED IN SHOP DRAWINGS AND IN THE FIELD WITH LANDSCAPE ARCHITECT BEFORE FINAL FABRICATION.
6. ALL BARRIER AND RAILINGS SHALL MEET STRUCTURAL PERFORMANCE REQUIREMENTS AND CONFORM WITH ADA AND MAAB REQUIREMENTS, INCLUDING DIMENSIONS OF PIPE HANDRAILS, ALLOWABLE RAILING HEIGHTS, EXTENSION AT TOP AND BOTTOM OF STAIRS AND CLEARANCE DIMENSIONS, SEE SPECIFICATIONS.
7. COORDINATE ALL RAILING AND BASEPLATE SHOP DRAWINGS WITH BOARDWALK, STEP, AND RAMP DRAWINGS. SHOP DRAWINGS SHALL DEMONSTRATE RELATIONSHIP BETWEEN ALL RAILING/BARRIER COMPONENTS AND BOARDWALK SUBSTRUCTURE DESIGN.
8. REFER TO COASTAL ENGINEERS' DRAWINGS FOR ALL BASEPLATE CONNECTIONS TO BOARDWALK.
9. DECKING PERIMETER FRAME SHOWN FOR REFERENCE ONLY. PERIMETER DECKING FRAME PATTERN AND BOARD SIZING VARIES. REFER TO COASTAL ENGINEER'S DRAWINGS FOR REQUIRED PERIMETER DECKING FRAME SIZES AND ARRANGEMENT.
10. ACRYLIC FLASHING TAPE OR BLACK HDPE ISOLATOR PLATE TO BE PROVIDED BETWEEN ALL WOOD AND GALVANIZED STEEL INTERFACES. REFER TO DETAILS FOR LOCATIONS AND TYPE OF ISOLATION MATERIAL.
11. RAILING CONNECTION USING LAG BOLTS TO TIMBER SUBSTRUCTURE SHOWN. FOR CONNECTIONS TO STEEL SUBSTRUCTURE USING THRU-BOLTS, REFER TO COASTAL ENGINEERING DRAWINGS.

3 HANDRAIL AT BOARDWALK RAMP

SCALE: 1" = 1'-0"

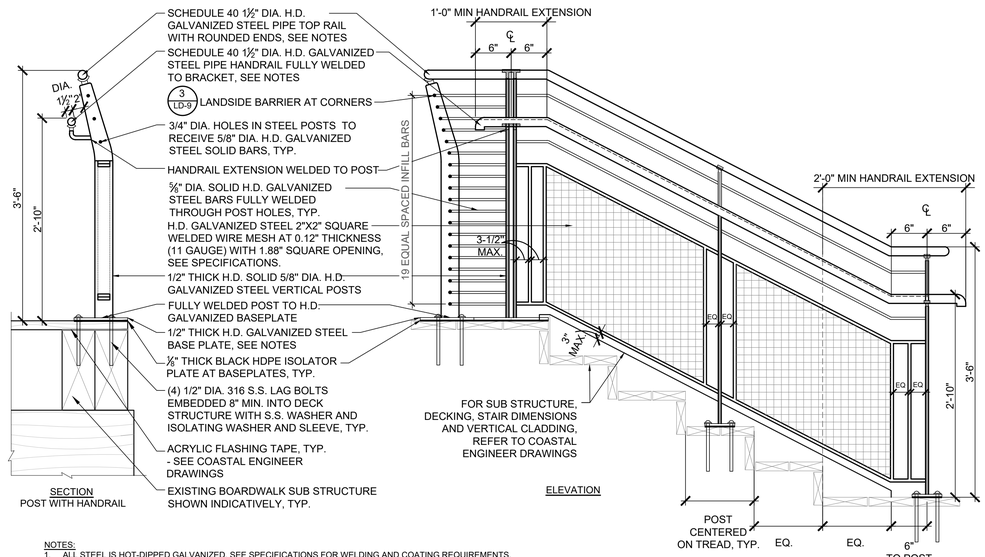


NOTES:

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8. REFER TO COASTAL ENGINEERS' DRAWINGS FOR TREAD AND RISER LOCATIONS AND QUANTITIES.
9. REFER TO COASTAL ENGINEERS' DRAWINGS FOR ALL BASEPLATE CONNECTIONS TO BOARDWALK.
10. DECKING PERIMETER FRAME SHOWN FOR REFERENCE ONLY. PERIMETER DECKING FRAME PATTERN AND BOARD SIZING VARIES. REFER TO COASTAL ENGINEER'S DRAWINGS FOR REQUIRED PERIMETER DECKING FRAME SIZES AND ARRANGEMENT.
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4 WATERSIDE BARRIER AT PAVILION STAIR WITH HANDRAIL

SCALE: 1" = 1'-0"



NOTES:

1. ALL STEEL IS HOT-DIPPED GALVANIZED. SEE SPECIFICATIONS FOR WELDING AND COATING REQUIREMENTS.
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5 LANDSIDE BARRIER AT PAVILION STAIR WITH HANDRAIL

SCALE: 1" = 1'-0"

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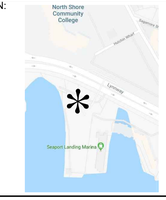
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

RAILINGS - STAIRS

SHEET 10 OF 12

ACCESSION #:104963x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

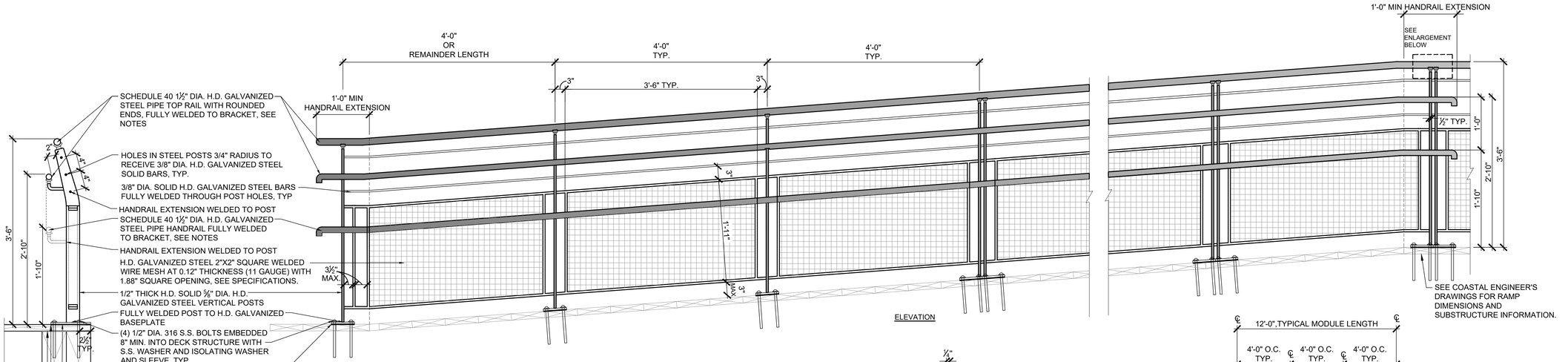
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

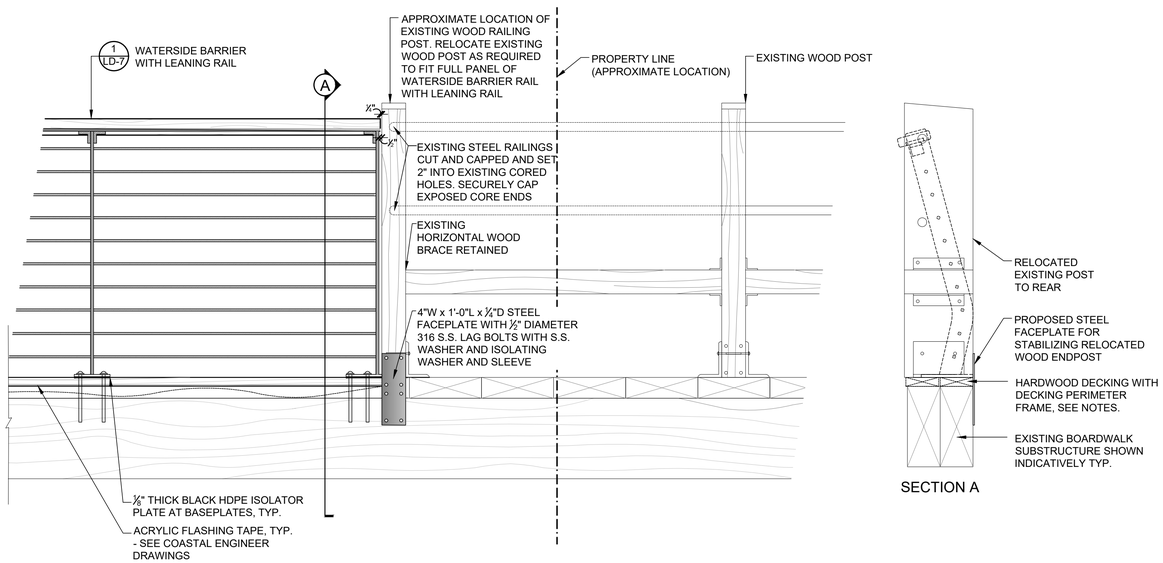
DRAWING NO.

LD-10



NOTES:
1. ALL STEEL IS HOT-DIPPED GALVANIZED. SEE SPECIFICATIONS FOR WELDING AND COATING REQUIREMENTS.
2. BASEPLATE DIMENSIONS VARY BY LOCATION, REFER TO MATERIALS PLANS FOR BASEPLATE TYPE AND LD-9 FOR DIMENSIONS.
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1 LANDSIDE BARRIER AT RAMP WITH HANDRAIL
SCALE: 1" = 1'-0"



SECTION A

NOTES:
1. PROVIDE SHOP DRAWINGS FOR ALL RAILINGS AND CONNECTION TO EXISTING RAILING. SEE SPECIFICATIONS.
2. REFER TO SHEET MS-17, DETAIL DD FOR BOARDWALK DECKING TRANSITION AT PROPERTY LINE TERMINATION.
3. ALL STEEL IS HOT-DIPPED GALVANIZED. SEE SPECIFICATIONS FOR WELDING AND COATING REQUIREMENTS.
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2 WATERSIDE BARRIER CONNECTION TO EXISTING RAILING
SCALE: 1" = 1'-0"

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65 FRANKLIN ST, 4TH FLOOR
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dcr Massachusetts

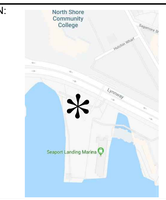
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Burlington, MA 01803
Tel: 781.221.1000
www.stantec.com

VETERANS MEMORIAL PARK
WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

RAILINGS - RAMPS+CONNECTIONS

SHEET 11 OF 12

ACCESSION #:104964x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

LD-11

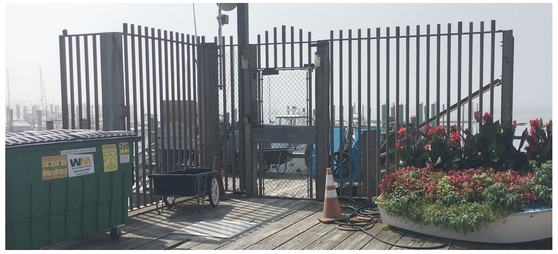


PHOTO OF EXISTING GATE - FRONT VIEW

NOTES:

1. CONTRACTOR TO REMOVE, REFURBISH, AND REINSTALL EXISTING GATES. SEE SPECIFICATIONS. SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO REFURBISHMENT.
2. PHOTOS AND EXISTING CONDITIONS SHOWN FOR REFERENCE PURPOSES ONLY.
3. APPROXIMATE DIMENSIONS OF GATES TO BE PRESERVED TO SAFEGUARD FUNCTION.
4. REMOVED, REFURBISHED AND REINSTALLED, GATES SHALL MEET NEW GUARDRAILS IN A MANNER CONSISTENT WITH EXISTING AND WHICH PRESERVES EXISTING SECURITY FUNCTION.
5. EXISTING GATE ACCESS HARDWARE AND ELECTRICAL COMPONENTS. SHALL BE PROTECTED IN PLACE AND/OR RESTORED/REPLACED TO ORIGINAL WORKING FUNCTION.
6. SEE GATE POST SUPPORT FRAMING DETAIL, SHEET MS-11.

1 STEEL MARINA GATE 1



PHOTO OF EXISTING GATE - FRONT VIEW

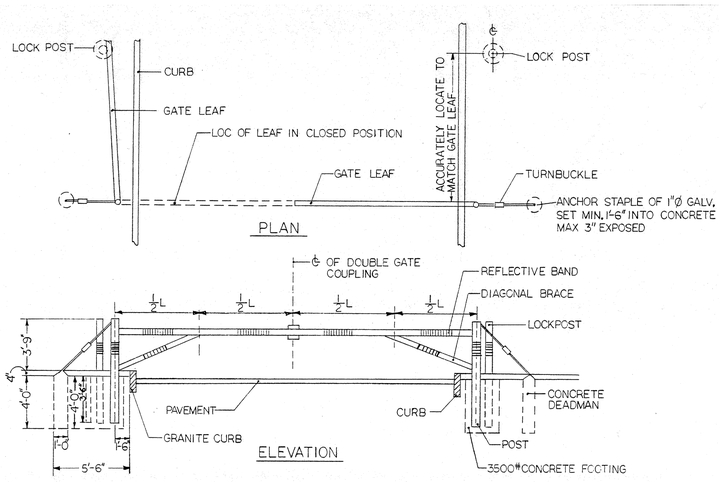


PHOTO OF EXISTING GATE - SIDE VIEW

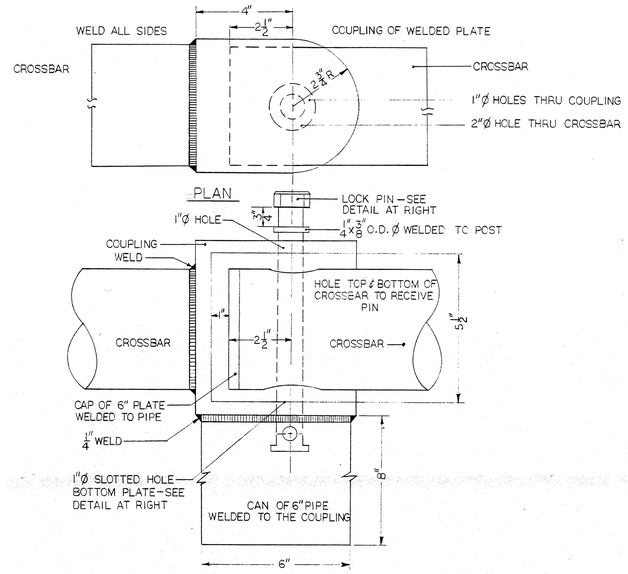
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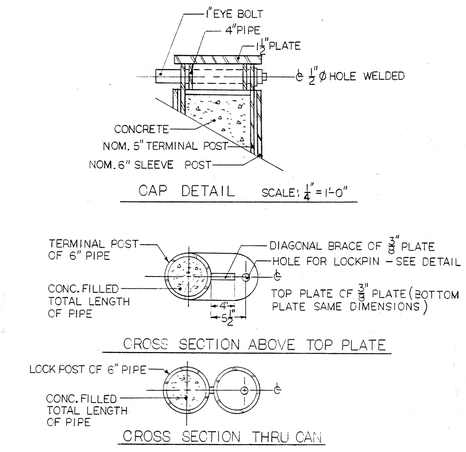
2 STEEL MARINA GATE 2



TWO LEAF GATE ASSEMBLY (NOT TO SCALE)



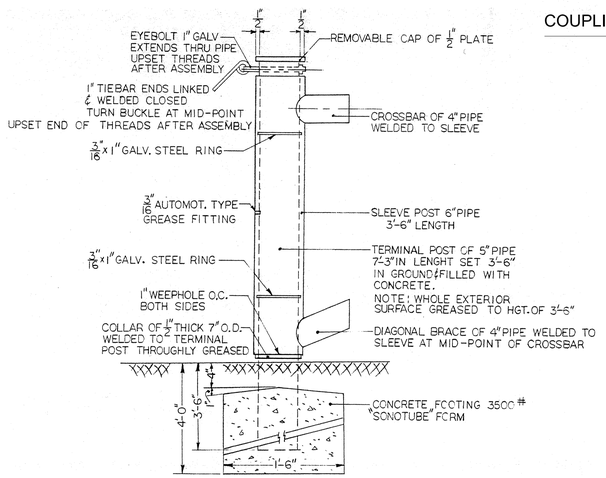
COUPLING & LOCK DETAIL (NOT TO SCALE)



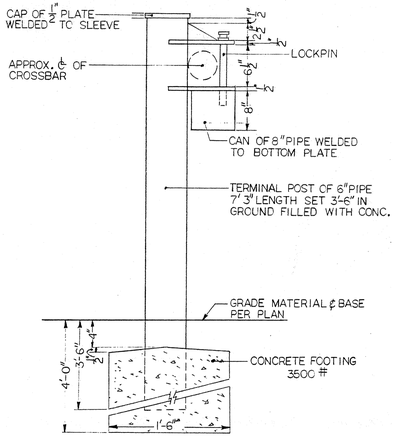
LOCK POST DETAILS - SECTIONS + CAP DETAIL (NOT TO SCALE)

NOTES:

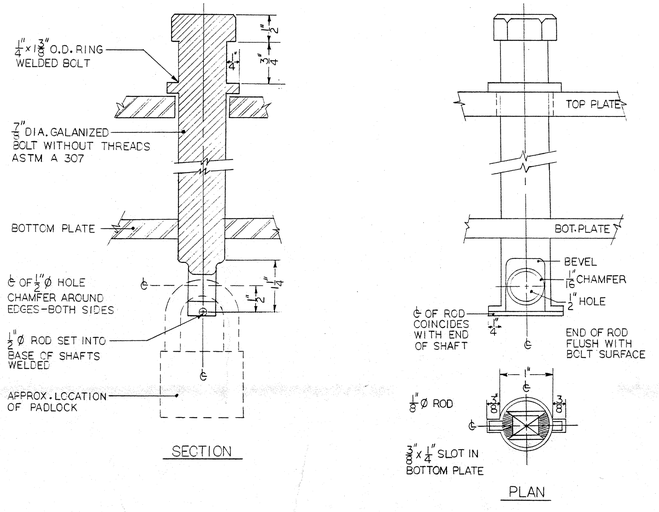
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. .
2. STRUCTURAL STEEL ROUND TUBES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE C.
3. STRUCTURAL STEEL PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50.
4. WELDING SHALL COMPLY WITH THE PROVISIONS OF THE STRUCTURAL WELDING CODE, AWS D1..1. WELDS SHALL BE E70 ELECTRODE.
5. ALL ITEMS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION AND PAINTED FIRE SAFETY YELLOW IN COLOR.
6. ALL STEEL AREAS DAMAGED DURING INSTALLATION SHALL RECEIVE BOTH GALVANIZING AND YELLOW FINISH PAINT TOUCH-UP PRIOR TO COMPLETION OF WORK.
7. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR GATES AND CONCRETE FOUNDATIONS.



TERMINAL POST (NOT TO SCALE)



LOCK POST- ELEVATION (NOT TO SCALE)



LOCK PIN & PLATE DETAIL (NOT TO SCALE)

3 VEHICULAR PARKING LOT GATE

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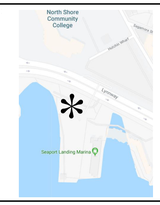
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

GATE DETAILS
SHEET 12 OF 12

ACCESSION #:104965x

DESIGNED: DA

DRAWN: AN/HV CHECKED: DA

DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

LD-12

LEGEND

- LIMITS OF GEOGRID FOR SUBGRADE REINFORCEMENT NON-PATHWAY AREAS
- LIMITS OF GEOGRID FOR SUBGRADE REINFORCEMENT UNDER PATHWAY AREAS
- X-X EXISTING BORING LOCATION
- TP-X EXISTING TEST PIT

LYNNWAY (ROUTE 1A)
(1953 MDC LAYOUT)

1953 MDC LAYOUT BASELINE

HP-26A
TP-1
HP-27A
TP-3
TP-5
HP-25A
HP-24A
HP-22A
HP-23A
HP-21A
HP-20A

MATCH LINE

SEE DRAWING NO. B-2

SCALE: 1" = 20'

N

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Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
NICHOLAS C. D'AGOSTINO
No. 28521
REGISTERED PROFESSIONAL ENGINEER

12/30/2025

DRAWING TITLE:

CIVIL - GEOTECHNICAL SHEET 1 OF 3

ACCESSION #:104966x

DESIGNED: ND

DRAWN: RJ CHECKED: ND

DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

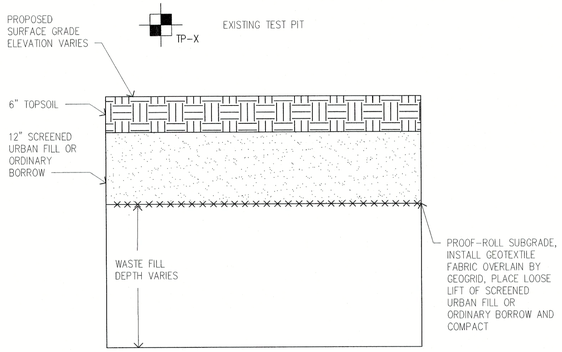
SUBMISSION: BID SET

DRAWING NO.

B-1

LEGEND

- LIMITS OF GEOGRID FOR SUBGRADE REINFORCEMENT NON-PATHWAY AREAS
- LIMITS OF GEOGRID FOR SUBGRADE REINFORCEMENT UNDER PATHWAY AREAS
- X-X — EXISTING BORING LOCATION
- TP-X — EXISTING TEST PIT

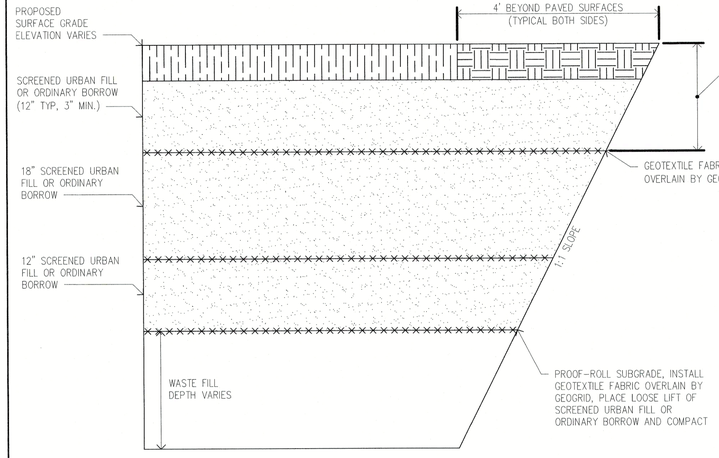


1 GEORGRID FOR SUBGRADE REINFORCEMENT NON PATHWAY AREAS DETAIL

SCALE: NTS

NOTE:

SEE SPECIFICATIONS FOR SEQUENCE OF WORK.

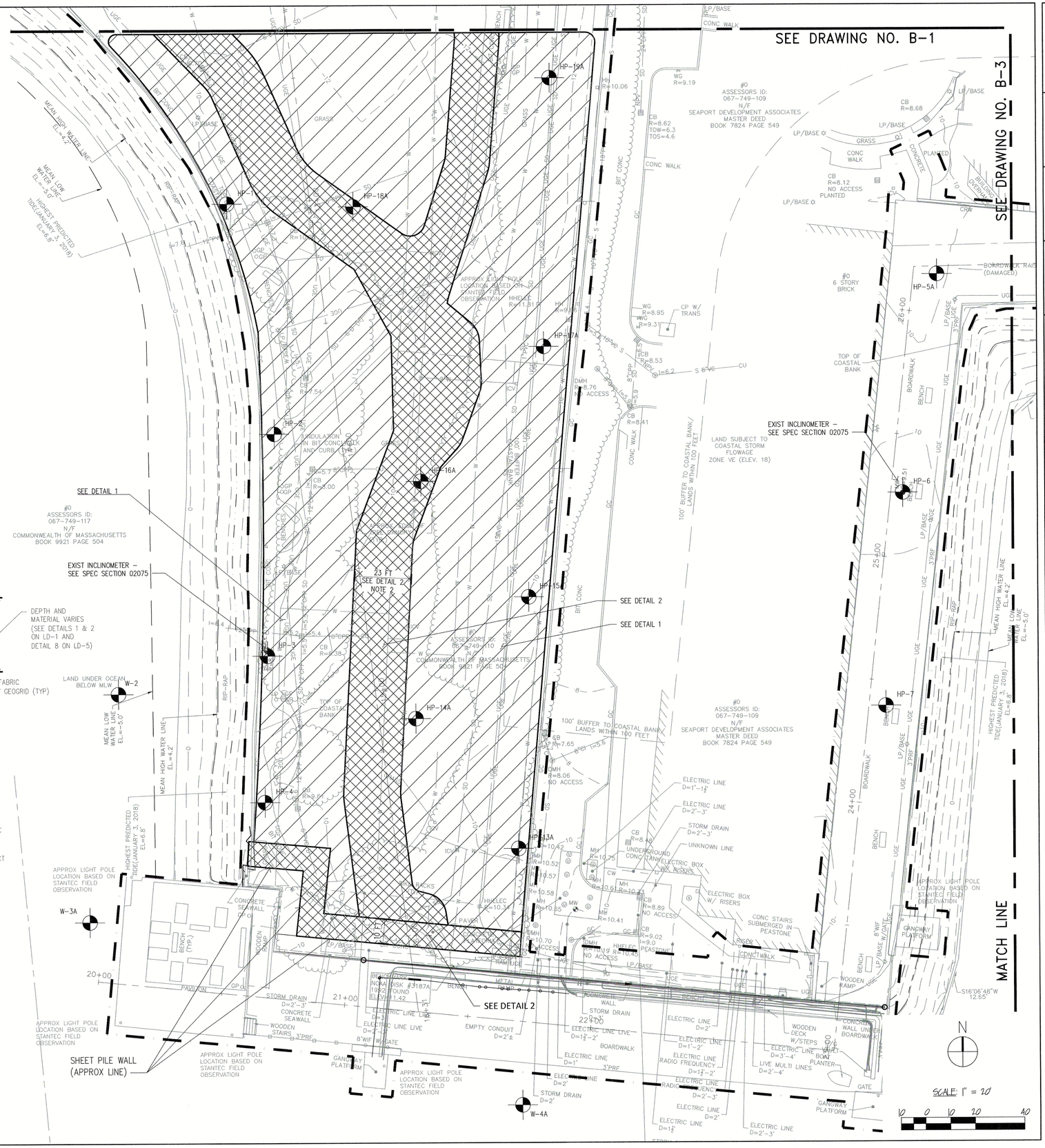


2 GEOGRID FOR SUBGRADE REINFORCEMENT UNDER PATHWAY AREAS DETAIL

SCALE: NTS

NOTE:

1. SEE SPECIFICATIONS FOR SEQUENCE OF WORK.
2. INSTALL TENSER TRIAX GEOGRID OVER GEOTEXTILE. WIDTH OF GEOGRID FOR DETAIL 2 EXTENDS 4FT BEYOND EACH EDGE OF PROPOSED PATH.
3. INSTALL GEOTEXTILE FABRIC AND GEOGRID HORIZONTALLY TO THE ROOTBALL OF PROPOSED PLANTINGS, FOUNDATIONS, AND DRILLED SHAFTS, AND TO AN OFFSET OF 10 FEET FROM THE TRUNK OF EXISTING TREES TO BE RETAINED.



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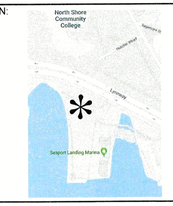
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
NICHOLAS C. D'AGOSTINO
No. 28921
REGISTERED PROFESSIONAL ENGINEER
10/30/2025

DRAWING TITLE:

CIVIL - GEOTECHNICAL SHEET 2 OF 3

ACCESSION #:104967x

DESIGNED: ND

DRAWN: RJ CHECKED: ND

DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

B-2

SEE DRAWING NO. B-2

MATCH LINE

LYNN HARBOR

LAND UNDER OCEAN BELOW MLW

#3 STORY BRICK

BUILDING OVERHANGS

WOOD RAMP

SHORELINE RAISED (DAMAGED)

BENCH

27+00

HP-8A

UGE

RIP-RAP

LP/BASE

3"PRF

HP-9A 28+00

FLAGPOLE

BUILDING OVERHANG

HR-10A

29+00

BOARDWALK

6 STORY BRICK

HP-11A

30+00

TOP OF COASTAL BANK

HP-12A

31+00

PLANTER

CONC

10

CRW

CB #1.58 RIM 11.58 NO ACCESS

RESTRICTED ACCESS

BIT CONC

LST

32+00

S48°19'38"W 12.52'

W-1

W-5A

MEAN LOW WATER LINE EL.=-5.0'

MEAN HIGH WATER LINE EL=4.2'

HIGHEST PREDICTED TIDE(JANUARY 3, 2018) EL=6.8'

#0 ASSESSORS ID: 067-749-113 N/F CITY OF LYNN BOOK 12557 PAGE 227

#0 ASSESSORS ID: 067-749-121 N/F COMMONWEALTH OF MASSACHUSETTS BOOK 9921 PAGE 304

#0 ASSESSORS ID: 067-749-109 N/F SEAPORT DEVELOPMENT ASSOCIATES MASTER DEED BOOK 7824 PAGE 549

CHAPTER 91 HISTORIC HIGH WATER LINE APPROXIMATE LOCATION MassGIS

100' BUFFER TO COASTAL BANK/ LANDS WITHIN 100 FEET

ASSESSORS ID: 066-749-102 N/F THE WHALE INC BOOK 8765 PAGE 178

+57.01

+90

103+00

S26°42'52"E 2.00'

LEGEND

- LIMITS OF GEOGRID FOR SUBGRADE REINFORCEMENT NON-PATHWAY AREAS
- LIMITS OF GEOGRID FOR SUBGRADE REINFORCEMENT UNDER PATHWAY AREAS
- X-X EXISTING BORING LOCATION
- TP-X EXISTING TEST PIT

N

SCALE: 1" = 20'

10 0 10 20 40

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VETERANS MEMORIAL PARK

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for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
NICHOLAS C. D'AGOSTINO
No. 28621
REGISTERED PROFESSIONAL ENGINEER

10/30/2025

DRAWING TITLE:

CIVIL - GEOTECHNICAL SHEET 3 OF 3

ACCESSION #:104968x

DESIGNED: ND

DRAWN: RJ CHECKED: ND

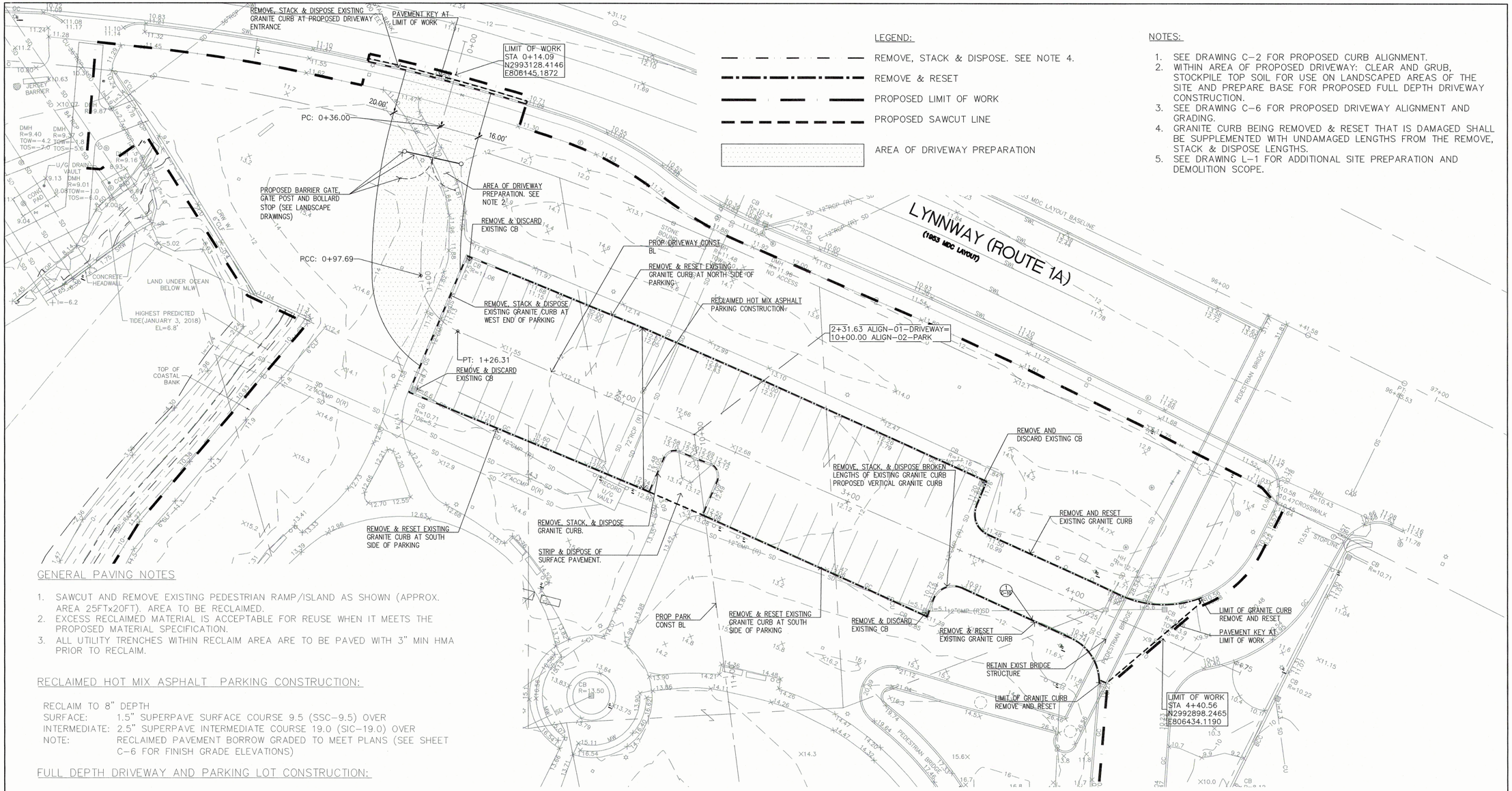
DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

B-3



LEGEND:

- REMOVE, STACK & DISPOSE. SEE NOTE 4.
- REMOVE & RESET
- PROPOSED LIMIT OF WORK
- PROPOSED SAWCUT LINE
- AREA OF DRIVEWAY PREPARATION

NOTES:

1. SEE DRAWING C-2 FOR PROPOSED CURB ALIGNMENT.
2. WITHIN AREA OF PROPOSED DRIVEWAY: CLEAR AND GRUB, STOCKPILE TOP SOIL FOR USE ON LANDSCAPED AREAS OF THE SITE AND PREPARE BASE FOR PROPOSED FULL DEPTH DRIVEWAY CONSTRUCTION.
3. SEE DRAWING C-6 FOR PROPOSED DRIVEWAY ALIGNMENT AND GRADING.
4. GRANITE CURB BEING REMOVED & RESET THAT IS DAMAGED SHALL BE SUPPLEMENTED WITH UNDAMAGED LENGTHS FROM THE REMOVE, STACK & DISPOSE LENGTHS.
5. SEE DRAWING L-1 FOR ADDITIONAL SITE PREPARATION AND DEMOLITION SCOPE.

GENERAL PAVING NOTES

1. SAWCUT AND REMOVE EXISTING PEDESTRIAN RAMP/ISLAND AS SHOWN (APPROX. AREA 25FTx20FT). AREA TO BE RECLAIMED.
2. EXCESS RECLAIMED MATERIAL IS ACCEPTABLE FOR REUSE WHEN IT MEETS THE PROPOSED MATERIAL SPECIFICATION.
3. ALL UTILITY TRENCHES WITHIN RECLAIM AREA ARE TO BE PAVED WITH 3" MIN HMA PRIOR TO RECLAIM.

RECLAIMED HOT MIX ASPHALT PARKING CONSTRUCTION:

RECLAIM TO 8" DEPTH
SURFACE: 1.5" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5) OVER
INTERMEDIATE: 2.5" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0) OVER
NOTE: RECLAIMED PAVEMENT BORROW GRADED TO MEET PLANS (SEE SHEET C-6 FOR FINISH GRADE ELEVATIONS)

FULL DEPTH DRIVEWAY AND PARKING LOT CONSTRUCTION:

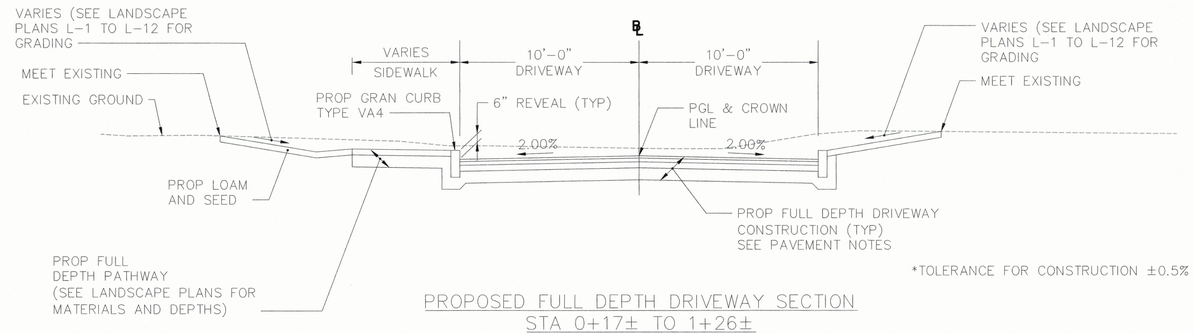
SURFACE: 1.5" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5) OVER
INTERMEDIATE: 2.5" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0) OVER
BASE: 4" DENSE GRADED CRUSHED STONE OVER
SUBBASE: 8" GRAVEL BORROW, TYPE b

NOTES:
A. ASPHALT EMULSION FOR TACK COAT SHALL BE SPRAY APPLIED AT 0.05 GAL/SY OVER SMOOTH SURFACES
B. NEW SURFACE COURSE SHALL BE KEYED AND TACKED INTO ADJACENT PAVEMENT 18" MINIMUM (SEE DETAIL 2, SHEET C-10)

CEMENT CONCRETE WHEELCHAIR RAMP CONSTRUCTION:

SURFACE: 6" CEMENT CONCRETE AIR ENTRAINED, 4000 PSI 3/4", 610 LBS OVER
BASE: 6" GRAVEL BORROW - TYPE b

* TOLERANCE FOR CROSS SLOPE ON SIDEWALK CONSTRUCTION ±0.5%



*TOLERANCE FOR CONSTRUCTION ±0.5%

PROPOSED FULL DEPTH DRIVEWAY SECTION
STA 0+17± TO 1+26±
NOT TO SCALE

N

SCALE: 1" = 20'

0 10 20 40

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VETERANS MEMORIAL PARK
WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

JOHN CALNAN CIVIL No. 40694 REGISTERED PROFESSIONAL ENGINEER
10/30/25

DRAWING TITLE:

PARKING LOT PLAN & PAVING NOTES

ACCESSION #:104969x

DESIGNED: JC

DRAWN: MEH CHECKED: JJH

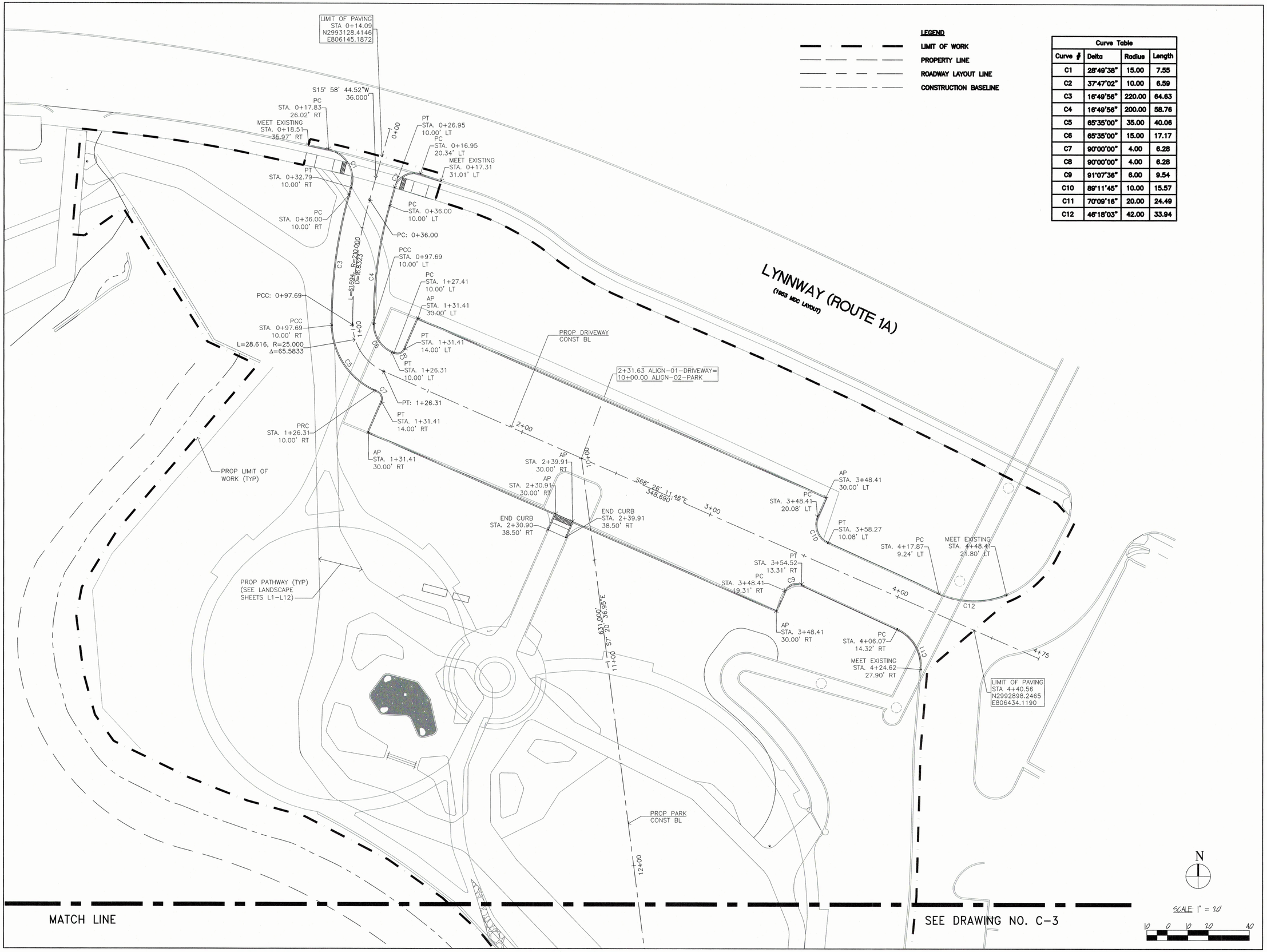
DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

C-1



Curve Table			
Curve #	Delta	Radius	Length
C1	28°49'38"	15.00	7.55
C2	37°47'02"	10.00	6.59
C3	16°49'56"	220.00	64.63
C4	16°49'56"	200.00	58.76
C5	65°35'00"	35.00	40.06
C6	65°35'00"	15.00	17.17
C7	90°00'00"	4.00	6.28
C8	90°00'00"	4.00	6.28
C9	91°07'36"	6.00	9.54
C10	89°11'45"	10.00	15.57
C11	70°09'16"	20.00	24.49
C12	46°18'03"	42.00	33.94

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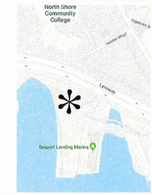
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KEY PLAN:



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STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JOHN CALNAN
CIVIL
No. 40694
REGISTERED PROFESSIONAL ENGINEER
10/30/25

DRAWING TITLE:

ALIGNMENT AND TIE PLAN - SHEET 1 OF 3

ACCESSION #:104970x

DESIGNED: JC

DRAWN: MEH CHECKED: JJH

DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

C-2

MATCH LINE

SEE DRAWING NO. C-2

SEE DRAWING NO. C-4

MATCH LINE

LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- ROADWAY LAYOUT LINE
- CONSTRUCTION BASELINE

#0
ASSESSORS ID:
067-749-117
N/F
COMMONWEALTH OF MASSACHUSETTS
BOOK 9921 PAGE 504

#0
ASSESSORS ID:
067-749-109
N/F
SEAPORT DEVELOPMENT ASSOCIATES
MASTER DEED
BOOK 7824 PAGE 549

#0
ASSESSORS ID:
067-749-110
N/F
COMMONWEALTH OF MASSACHUSETTS
BOOK 9921 PAGE 504

MEAN HIGH WATER LINE
EL.=4.2'

MEAN LOW WATER LINE
EL.=-5.0'

13+00

14+00

15+00

16+00

20+00

21+00

22+00

23+00

24+00

25+00

26+00

S7° 25' 36.95"E
631.000'

N6° 06' 36.09"E
318.945'

PI: 26+17.94

PI: 22+99.00

APPROX LIGHT POLE LOCATION BASED ON STANTEC FIELD OBSERVATION

PROP PATHWAY
(SEE LANDSCAPE SHEETS L1-L12)

PROP PARK
CONST BL

PROP BOARDWALK
CONST BL

LIMIT OF WORK
STA 20+04.97
N2992368.1065
E806198.7972

16+31.00 ALIGN-02-PARK=
21+30.02 ALIGN-03-BOARDWALK

S84° 25' 12.12"E
299.000'
EMPTY CONDUIT
D=2'±

ELECTRIC LINE D=1'-1½'
ELECTRIC LINE LIVE D=2'-3'
STORM DRAIN D=2'-3'
UNKNOWN LINE
ELECTRIC LINE D=2'
ELECTRIC LINE D=1'-2'
ELECTRIC LINE RADIO FREQUENCY D=1½'-2'
ELECTRIC LINE D=2'-3'
ELECTRIC LINE D=3'-4'
LIVE MULTI LINES D=2'-4'
U.G. VAULT

SCALE: 1" = 20'

0 10 20 40

N

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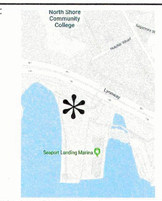
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

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COMMONWEALTH OF MASSACHUSETTS
JOHN CALNAN
CIVIL
No. 40694
REGISTERED
PROFESSIONAL ENGINEER

10/30/25

DRAWING TITLE:

ALIGNMENT AND TIE PLAN - SHEET 2 OF 3

ACCESSION #:104971x

DESIGNED: JC

DRAWN: MEH CHECKED: JJH

DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

C-3

SEE DRAWING NO. C-5

#0
ASSESSORS ID:
067-749-109
N/F
SEAPORT DEVELOPMENT ASSOCIATES
MASTER DEED
BOOK 7824 PAGE 549

#0
ASSESSORS ID:
067-749-109
N/F
SEAPORT DEVELOPMENT ASSOCIATES
MASTER DEED
BOOK 7824 PAGE 549

LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- ROADWAY LAYOUT LINE
- CONSTRUCTION BASELINE

N88° 49' 00.31"E
94.074'

PI: 26+17.94

PI: 27+12.02

27+00

26+00

S61° 20' 02.04"E
149.810'

28+00

PROP LIMIT OF WORK (TYP)

#0
ASSESSORS ID:
067-749-113
N/F
CITY OF LYNN
BOOK 12557 PAGE 227

MEAN LOW WATER LINE
EL.=-5.0'

#0
ASSESSORS ID:
067-749-122
N/F
COMMONWEALTH OF MASSACHUSETTS
BOOK 9921 PAGE 504

MEAN HIGH WATER LINE
EL.=4.2'

PI: 28+61.83

LYNN HARBOR

29+00

#98
ASSESSORS ID:
066-749-102
N/F
THE WHALE INC
BOOK 8765 PAGE 178

PROP BOARDWALK CONST BL

MEAN HIGH WATER LINE
EL.=4.2'

MEAN LOW WATER LINE
EL.=-5.0'

N6° 06' 36.09"E
318.945'

25+00

#0
ASSESSORS ID:
067-749-109
N/F
SEAPORT DEVELOPMENT ASSOCIATES
MASTER DEED
BOOK 7824 PAGE 549

24+00

APPROX LIGHT POLE LOCATION BASED ON STANTEC FIELD OBSERVATION

ELECTRIC LINE D=2'
ELECTRIC LINE D=1'-2'
ELECTRIC LINE D=1'-2'
ELECTRIC LINE D=3'-4'
LIVE MULTI LINES D=2'-4'
ELECTRIC LINE D=2'-3'
ELECTRIC LINE D=2'-3'
ELECTRIC LINE D=2'
ELECTRIC LINE D=2'-3'

23+00

PI: 22+99.00

APPROX LIGHT POLE LOCATION BASED ON STANTEC FIELD OBSERVATION

MATCH LINE

S20° 17' 48.48"E
223.411'

ASSESSORS ID:
067-749-109
N/F
SEAPORT DEVELOPMENT ASSOCIATES
MASTER DEED
BOOK 7824 PAGE 549

PI: 30+85.24

S58° 42' 02.39"E
114.759'

31+00

ASSESSORS ID:
066-749-102
N/F
THE WHALE INC
BOOK 8765 PAGE 178

LIMIT OF WORK
STA 31+53.12
N2992341.9203
E806886.3766

BIT CONC

LST

32+00

MEAN HIGH WATER LINE
EL.=4.2'

MEAN LOW WATER LINE
EL.=-5.0'

N

SCALE: 1" = 20'

10 0 10 20 40

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STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JOHN CALNAN
CIVIL
No. 40694
REGISTERED PROFESSIONAL ENGINEER
10/31/25

DRAWING TITLE:

ALIGNMENT AND TIE PLAN - SHEET 3 OF 3

ACCESSION #:104972x

DESIGNED: JC

DRAWN: MEH CHECKED: JJH

DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

C-4

PARKING LOT PAVEMENT MARKINGS AND SIGNAGE NOTES

1. EXISTING CONDITIONS INFORMATION IS REPRODUCED FROM THE SURVEY PREPARED BY SMC. OF BRAINTREE, MASSACHUSETTS, DATED DECEMBER 5, 2018, AND LAST REVISED NOVEMBER 2, 2020.
2. THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ARE BASED ON THE SURVEY REFERENCED ABOVE. THE CONTRACTOR SHALL NOTIFY DIGSAFE AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANIES TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
3. CONTRACTOR(s) SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION.
4. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION.
5. ALL WORK CONDUCTED WITHIN PUBLIC RIGHT-OF-WAYS SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE CITY OF LYNN.
6. ACCESSIBLE CURB RAMPS SHALL BE PER THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB) AND THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES, WHICHEVER IS MORE STRINGENT.
7. THE FOLLOWING LAYOUT CRITERIA SHALL CONTROL UNLESS OTHERWISE NOTED ON THE PLAN: ALL DIMENSIONS ARE TO FACE OF CURB AT GUTTER LINE. ALL DIMENSIONS ARE TO CENTER OF PAVEMENT MARKINGS. ALL TIES TO PROPERTY LINES ARE PERPENDICULAR TO THE PROPERTY LINE UNLESS OTHERWISE NOTED.
8. SCREENED IMAGES SHOW EXISTING CONDITIONS. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPINGED UPON BY PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED, ABANDONED AND/OR CAPPED OR DEMOLISHED AS REQUIRED.
9. SEE SHEET C-10 FOR PAVEMENT MARKING AND SIGNAGE DETAILS.
10. SEE LANDSCAPE SHEETS FOR LAYOUT AND DETAILS OF SIGNAGE LOCATED OUTSIDE OF THE PARKING LOT AREA.

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- TRAFFIC SIGN
- SITE LIGHTING
- VGC — VERTICAL GRANITE CURB
- [X] — WHEELCHAIR RAMP NUMBER

SIGN SCHEDULE

SIGN ID	SIGN	QUANTITY	DETAIL
R7-8p	HANDICAP PARKING-VAN	1	5/C-10
R7-8	HANDICAP PARKING	2	5/C-10
R6-1	ONE WAY	2	6/C-10
R5-1	DO NOT ENTER	2	7/C-10
R1-1	STOP SIGN	1	8/C-10

LIMIT OF WORK
STA 0+14.09
N2993128.4146
E806145.1872

LIMIT OF WORK
STA 4+40.56
N2992898.2465
E806434.1190

LYNNWAY (ROUTE 1A)
(1953 MDC LAYOUT)

1953 MDC LAYOUT BASELINE

PROPOSED BARRIER GATE, GATE POST AND BOLLARD STOP (SEE LANDSCAPE SHEETS)

20' WIDE ONE-WAY ENTRANCE DRIVEWAY

STANDARD PARKING SPACE 9'X18', TYP.

2+31.63 ALIGN-01-DRIVEWAY=
10+00.00 ALIGN-02-PARK

10' WIDE AISLE

24 SPACES

23 SPACES
(2 VAN ACCESSIBLE HANDICAPPED SPACES)

ACCESSIBLE PARKING SYMBOL (TYP)

R7-8 (2)
MOUNT 2 WITH R7-8p

PAVEMENT ARROW (TYP)

6" DYL

12" SWL
STOP LINE

R1-1

PROP PATHWAY (TYP)
(SEE LANDSCAPE SHEETS L1-L12)

PROP LIMIT OF WORK (TYP)

PCC: 0+97.69

PT: 1+26.31

PC: 0+36.00

12" SWL

4" SWL (TYP)

18.00'

9.00'

20.00'

R6-1

R5-1

JERSEY BARRIER

CONC PAD

CONCRETE HEADWALL

LAND UNDER OCEAN BELOW MLW

HIGHEST PREDICTED TIDE(JANUARY 3, 2018) EL=6.8'

TOP OF COASTAL BANK

RIP-RAP

6"CLF

4'CLF

CRW W/ 6'CLF

STONE BOUND FOUND

PEDESTRIAN BRIDGE

LST W/ GRAVEL STEPS

100' BUFFER TO COASTAL BANK/ LANDS WITHIN 100 FEET

TMH
R=10.43

S63°31'07"E
9.00'

S63°31'08"E
1236.42'

+41.58

96+85.53

97+00

+53.14

92+00

R=902.95
L=100.65'

93+00

+31.12

0+00

1+00

2+00

3+00

4+00

4+75

10+00

11+00

12+00

GC

N

SCALE: 1" = 20'

10 0 10 20 40

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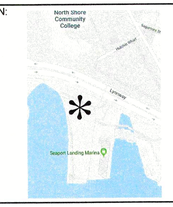
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JOHN CALNAN
CIVIL
No. 40694
REGISTERED PROFESSIONAL ENGINEER
10/30/25

DRAWING TITLE:

PARKING LOT PAVEMENT MARKINGS AND SIGNAGE PLAN

ACCESSION #:104973x

DESIGNED: JC

DRAWN: MEH CHECKED: JJH

DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

C-5

GRADING NOTES

1. EXISTING CONDITIONS INFORMATION IS REPRODUCED FROM THE SURVEY PREPARED BY DAWOOD. OF BRAINTREE, MASSACHUSETTS, DATED DECEMBER 5, 2018, AND LAST REVISED NOVEMEBER 2, 2020.
2. PRIOR TO THE START OF ANY EXCAVATION FOR THE PROJECT, BOTH ON AND OFF THE SITE, THE CONTRACTOR SHALL NOTIFY DIGSAFE AND BE PROVIDED WITH A DIGSAFE NUMBER INDICATING THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED.
3. WHERE PROPOSED GRADES MEET EXISTING GRADES, CONTRACTOR SHALL BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WORK. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
4. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, STRUCTURES AND PLANTING BEDS.
5. MAXIMUM SLOPE IN DISTURBED AREAS SHALL NOT EXCEED 3:1, UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL MEET THE REQUIREMENTS OF 521 CMR OF THE ARCHITECTURAL ACCESS BOARD REGULATIONS. ALL GRADES ON WALKWAYS, RAMPS, CURB CUTS AND PARKING AREAS AS DEFINED BY 521 CMR SHALL COMPLY WITH THE MAXIMUM ALLOWABLE GRADES. GRADES SHALL BE MEASURED AT TWO FOOT INTERVALS. CROSS SLOPES ON ALL WALKS, PATHS OF TRAVEL AND ACCESSIBLE ROUTES AS DEFINED IN 521 CMR SHALL NOT EXCEED 1.5%. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF DISCREPANCIES ARISE BETWEEN THE ACTUAL GRADES SHOWN ON THE PLANS AND THE MAXIMUM ALLOWABLE GRADES INDICATED IN 521 CMR.
7. ALL WALKWAYS SHALL BE GRADED TO A MAXIMUM 4.5% RUNNING SLOPE (PARALLEL TO THE DIRECTION OF TRAVEL). THE CROSS PITCH OF ALL WALKWAYS, PATHS AND PLAZAS SHALL NOT EXCEED 1.5% (PERPENDICULAR TO THE DIRECTION OF TRAVEL). THE SLOPE OF ALL RAMPS AND SIDE SLOPES OF HANDICAP CURB CUTS AS DEFINED BY SECTION 21.1 OF 521 CMR SHALL BE CONSTRUCTED AT 7.5% MAXIMUM. RAMPS AS DEFINED IN SECTION 24.1 OF 521 CMR SHALL BE CONSTRUCTED TO A MAXIMUM SLOPE OF 7.5%.
8. ENSURE ALL EXISTING (TO REMAIN), AND PROPOSED MANHOLE COVERS PROPERLY IDENTIFY UTILITY SERVICED.
9. CONTRACTOR SHALL VERIFY EXISTING GRADES AND NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
10. BITUMINOUS CONCRETE ELEVATIONS AT CATCH BASINS TO BE 1/4 INCH ABOVE RIM ELEVATION SHOWN FOR CATCH BASIN. FOR DRAINAGE STRUCTURE RIM ELEVATIONS SEE DRAWING C-8.
11. CONTRACTOR TO ADJUST UTILITY ELEMENT MEANT TO BE FLUSH WITH GRADE (CLEAN-OUTS, UTILITY MANHOLES, CATCH BASINS, INLETS, ETC) THAT IS AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR NOT.
12. SCREENED IMAGES SHOW EXISTING CONDITIONS. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPINGED UPON BY PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED, ABANDONED AND/OR CAPPED OR DEMOLISHED AS REQUIRED.

GRADING LEGEND

- PROPERTY LINE
- LIMIT OF WORK LINE
- 10.0 — PROPOSED CONTOUR
- +SPOT1 SPOT2 — SPOT GRADE
- CATCH BASIN
- DRAINAGE MANHOLE OR WATER QUALITY

LIMIT OF PAVING
STA 0+14.09
N2993128.4146
E806145.1872

PC: 0+36.00

VERTICAL GRANITE CURB, TYP.

PCC: 0+97.69

PT: 1+26.31

PROP DRIVEWAY CONST / BL

REFER TO LANDSCAPE PLANS FOR GRADING ON BACK SIDE OF GRANITE CURB

LYNNWAY (ROUTE 1A)
(1953 MDC LAYOUT)

1953 MDC LAYOUT BASELINE

PROP LIMIT OF WORK (TYP)

PROP PATHWAY (TYP)
(SEE LANDSCAPE SHEETS L1-L12)

MEET EXISTING

LIMIT OF PAVING
STA 4+40.56
N2992898.2465
E8064.34.1190

MEET EXISTING

TOP OF COASTAL BANK

HIGHEST PREDICTED TIDE(JANUARY 3, 2018) EL=6.8'

100' BUFFER TO COASTAL BANK/ LANDS WITHIN 100 FEET

LAND UNDER OCEAN BELOW MLW

CONCRETE HEADWALL

JERSEY BARRIER

U/G DRAIN VAULT

RIP-RAP

SCALE: 1" = 20'

0 10 20 40

N

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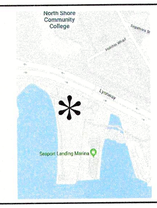
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JOHN CALNAN
CIVIL
No. 40594
REGISTERED PROFESSIONAL ENGINEER
10/30/25

DRAWING TITLE:

PARKING LOT GRADING PLAN

ACCESSION #:104974x

DESIGNED: JC

DRAWN: MEH CHECKED: JJH

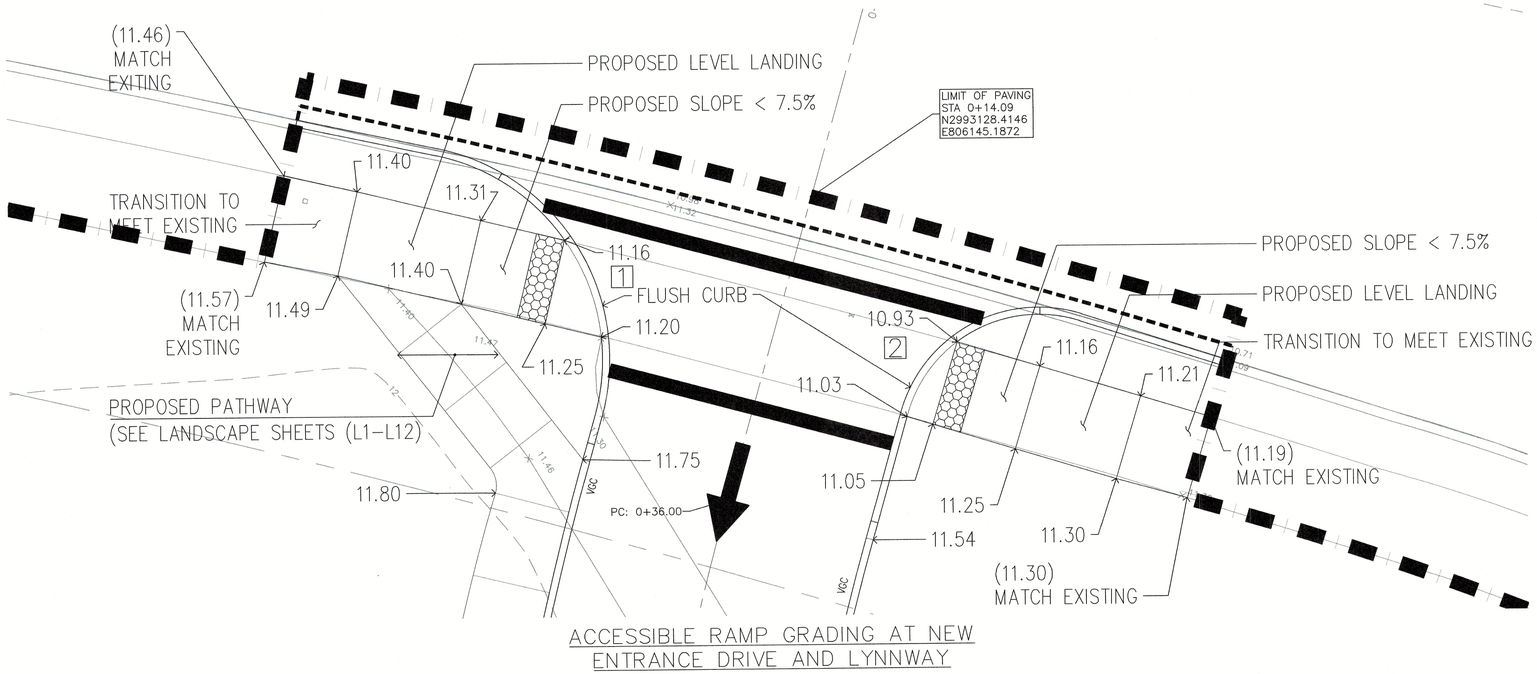
DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

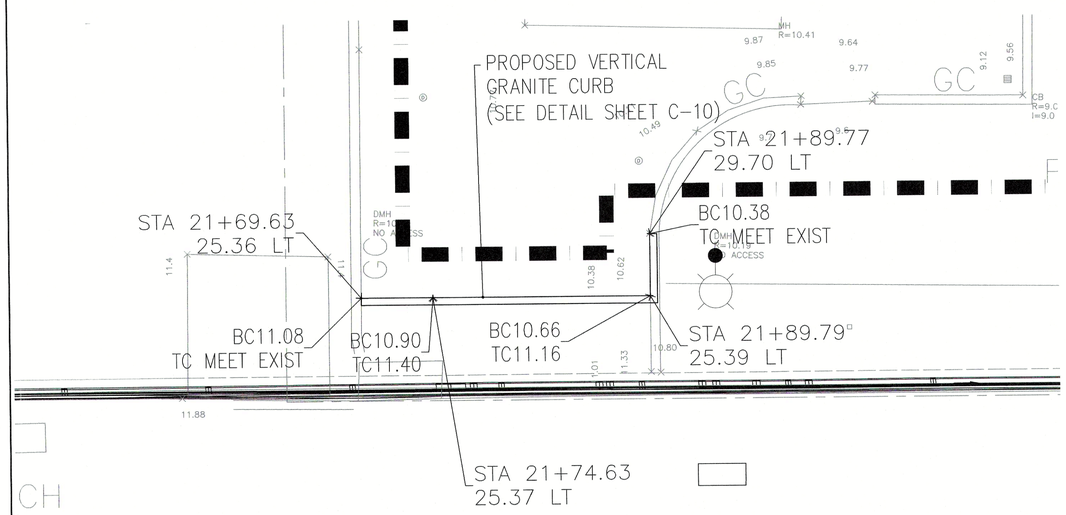
SUBMISSION: BID SET

DRAWING NO.

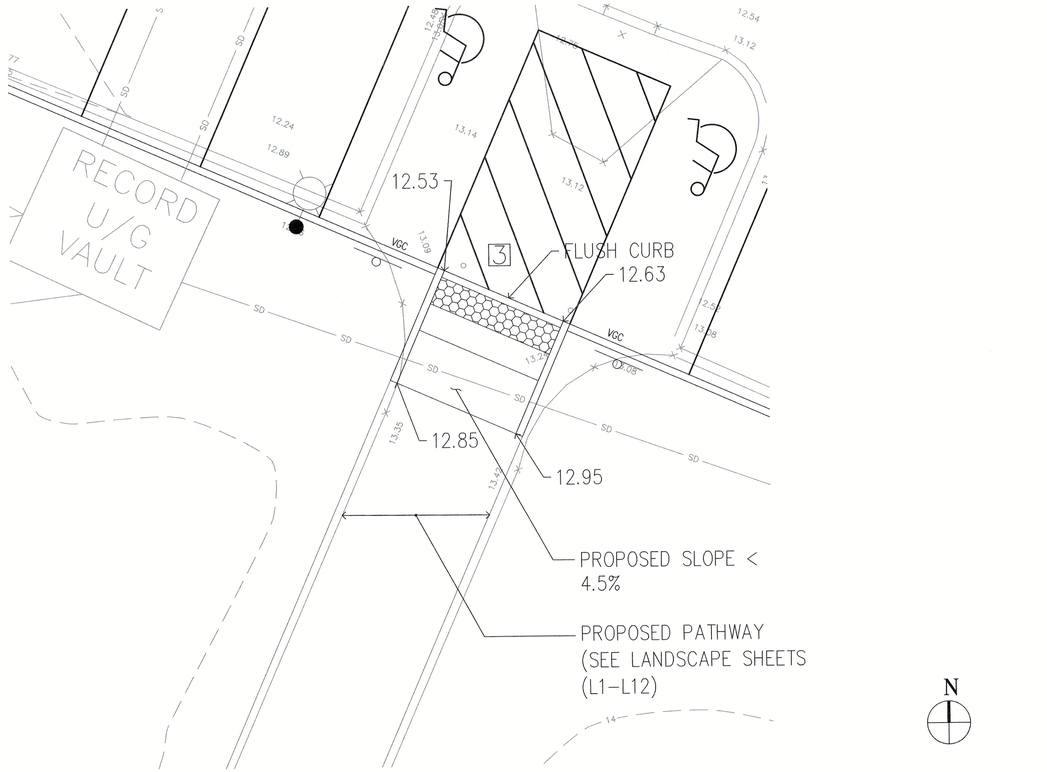
C-6



ACCESSIBLE RAMP GRADING AT NEW ENTRANCE DRIVE AND LYNNWAY



CONDOMINIUM DRIVEWAY CURB RELOCATION



ACCESSIBLE RAMP GRADING AT PARKING LOT

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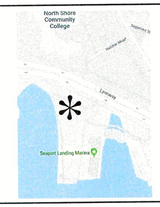
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JOHN CALNAN
CIVIL
No. 40694
REGISTERED PROFESSIONAL ENGINEER
10/30/25

DRAWING TITLE:

PEDESTRIAN RAMP GRADING PLAN

ACCESSION #:104975x

DESIGNED: JC

DRAWN: MEH CHECKED: JJH

DATE: NOVEMBER 12, 2025

SCALE: 1"=5'

SUBMISSION: BID SET

DRAWING NO.

C-7

GENERAL UTILITY NOTES

1. EXISTING CONDITIONS INFORMATION IS REPRODUCED FROM THE SURVEY PREPARED BY SMC. OF BRAINTREE, MASSACHUSETTS, DATED DECEMBER 5, 2018, AND LAST REVISED NOVEMBER 2, 2020.
2. PRIOR TO THE START OF ANY EXCAVATION FOR THE PROJECT, BOTH ON AND OFF THE SITE, THE CONTRACTOR SHALL NOTIFY DIGSAFE AND BE PROVIDED WITH A DIGSAFE NUMBER INDICATING THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED.
3. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES.
4. THE CONTRACTOR SHALL MAINTAIN OR ADJUST TO NEW FINISH GRADE, AS NECESSARY, ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POLES, MANHOLES, CATCH BASINS, HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS, UNLESS OTHERWISE NOTED OR DIRECTED BY OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAIN AND SEWER STRUCTURES, AS NECESSARY, FOR CHANGES IN GRADE. CONTRACTOR SHALL RESET UTILITY FRAMES, GRATES, AND COVERS MEANT TO BE FLUSH WITH GRADE (CLEANOUTS, UTILITY MANHOLES, CATCH BASINS, INLETS, ETC.) THAT ARE AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR NOT.
5. SITE LIGHTING IS SHOWN ON THIS PLAN FOR COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL PLANS FOR EXACT TYPE AND LOCATION.
6. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION, AT THE CONTRACTOR'S EXPENSE.
7. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PRIVATE UTILITY SERVICES SHALL BE PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS/TELEPHONE/ELECTRICAL) AND INSTALLED ACCORDING TO THOSE REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION, ALTERATION, OR ADJUSTMENT OF THE UTILITY CONNECTIONS WITH THE RESPECTIVE COMPANIES PRIOR TO ANY UTILITY CONSTRUCTION.
8. ALL CEMENT LINED DUCTILE IRON JOINTS AT FITTINGS (CLASS 52,) VALVES, AND HYDRANT LATERALS SHALL BE MECHANICAL JOINTH NEOPRENE GASKETS. JOINTS AT OTHER LOCATIONS SHALL BE PUSH-ON TYPE WITH NEOPRENE OR SYNTHETIC RUBBER GASKETS. ALL WATER GATES SHALL OPEN AS PER MUNICIPAL REQUIREMENTS. ALL WATER LINES SHALL HAVE A MINIMUM OF FIVE FEET OF GROUND COVER AND A MINIMUM SEPARATION OF TEN FEET FROM THE SEWER SYSTEM. AT WATER AND SEWER CROSSINGS, THE WATER LINE SHALL BE ENCASED IN SIX INCHES OF CONCRETE FOR A DISTANCE OF TEN FEET ON EITHER SIDE OF THE CROSSING.
9. PROTECT AND MAINTAIN EXISTING ON-SITE DRAINAGE STRUCTURES AND PIPES UNLESS OTHERWISE NOTED.
10. THIS PROJECT DISTURBS MORE THAN ONE ACRE OF LAND AND REQUIRES A PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES. AT LEAST 14 DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL FILE AN ELECTRONIC NOTICE OF INTENT (eNOI) WITH THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (U.S. EPA) FOR CONSTRUCTION DISCHARGES ASSOCIATED WITH THIS PROJECT AND MAINTAIN A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REGULATIONS.
11. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, STRUCTURES AND PLANTING BEDS.
12. ENSURE ALL EXISTING (TO REMAIN) AND PROPOSED MANHOLE COVERS PROPERLY IDENTIFY UTILITIES SERVICED.
13. BITUMINOUS CONCRETE ELEVATIONS SHALL BE 1/4 INCH ABOVE THE RIM ELEVATION SHOWN FOR EACH CATCH BASIN.
14. ALL PROPOSED STORM DRAIN LINES SHALL BE 12" NON-PERFORATED HDPE UNLESS OTHERWISE NOTED ON PLANS.
15. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY EARTH MOVING ACTIVITIES. REFER TO SITE PREPARATION PLAN FOR COMPLETE EROSION AND SEDIMENTATION CONTROLS.
16. WHERE AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED WORK, THE CONTRACTOR SHALL ACCURATELY DETERMINE THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY AND TRANSMIT THIS INFORMATION TO THE ENGINEER WITHOUT DELAY.
17. ALL TRENCH EXCAVATION CONTRACTORS SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82A, TRENCH EXCAVATION SAFETY REQUIREMENTS, TO PROTECT THE GENERAL PUBLIC FROM UNAUTHORIZED ACCESS TO UNATTENDED TRENCHES. TRENCH EXCAVATION PERMITS ARE REQUIRED. THIS APPLIES TO ALL TRENCHES ON PUBLIC AND PRIVATE PROPERTY.

WATER SERVICE NOTES

1. THE USE OF FIRE HYDRANTS FOR CONSTRUCTION IS NOT PERMITTED WITHOUT PRIOR APPROVAL FROM THE CITY OF LYNN WATER AND SEWER DEPARTMENT AND THE LYNN FIRE DEPARTMENT.
2. CONTRACTOR SHALL COORDINATE ANY WATER SHUT DOWNS WITH THE CITY OF LYNN WATER AND SEWER DEPARTMENT AND THE LYNN FIRE DEPARTMENT.
3. FOR PROPOSED WATER SERVICE TO SPLASH PAD, CUT EXISTING 3" LINE TO IRRIGATION, INSERT A GATE VALVE AND A 90 DEG BEND. PLUG AND CAP EXPOSED END OF CUT PIPE.
4. FOLLOWING CUT OF THE WATER SUPPLY TO THE EXISTING IRRIGATION SYSTEM (NOTE 3 ABOVE), THE IRRIGATION SYSTEM SHALL BE DISCONNECTED FROM ELECTRICAL, DRAINED AND ABANDONED IN PLACE OR REMOVED AND DISCARDED WHEN ENCOUNTERED AND FOUND CONFLICTING WITH THE WORK. IRRIGATION CONTROL VALVES (ICV) AND BOXES SHALL BE REMOVED AND DISCARDED.
5. PIPE JOINTS AND BENDS ON WATER SERVICE TO SPLASH PAD SHALL BE RESTRAINED.
6. REFER TO VORTEX DOCUMENTS FOR SPLASH PAD COMMAND CENTER, FOOTING, CONTROL CABINET, SPLASH PAD PIPING AND FITTINGS/JETS.
7. INSTALLATION LOCATION OF PROPOSED SPLASH PAD COMMAND CENTER AND HOT BOX ENCLOSURE TO BE VERIFIED IN THE FIELD BY THE ENGINEER. FOR FOOTING DETAIL SEE DRAWING SF-2.

V.I.F NOTE:
ALL PROPOSED INVERTS WITHIN THE PARKING DRAINAGE SYSTEMS ARE BASED ON ESTIMATED EXISTING INVERTS AT THE VAULT TIE-IN LOCATION. CONTRACTOR SHALL VERIFY THE TIE-IN INVERTS AND REPORT SAME TO THE ENGINEER PRIOR TO SUBMITTING STRUCTURE SHOP DRAWINGS FOR REVIEW.

UTILITY LEGEND & ABBREVATIONS

PROPERTY LINE
LIMIT OF WORK
PROPOSED STORM DRAIN LINE
W — PROPOSED WATER LINE

DMH	DRAIN MANHOLE	CB	CATCH BASIN
WQU	WATER QUALITY UNIT	I	INVERT
AD	AREA DRAIN	TD	TRENCH DRAIN
R	RIM	W	WATER
CTE	CONNECT TO EXISTING	D.I	DUCTILE IRON

D — STORM DRAIN MANHOLE; WATER QUALITY UNIT; OUTLET CONTROL STRUCTURE
CATCH BASIN; WATER QUALITY INLET
AREA DRAIN
WG — WATER GATE VALVE
CURB — CURB STOP
CORP — CORPORATION STOP
ELECTRICAL MANHOLE
HDPE — HIGH-DENSITY POLYETHYLENE
CLDI — CEMENT-LINED DUCTILE IRON
RET — RETAIN

N

SCALE: 1" = 20'

SEE DRAWING NO. C-9

MATCH LINE

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VETERANS MEMORIAL PARK
WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS — JOHN CALNAN — CIVIL — No. 40684 — REGISTERED PROFESSIONAL ENGINEER — 10/30/25

COMMONWEALTH OF MASSACHUSETTS — RYAN J STACKPOLE — CIVIL — No. 53008 — REGISTERED PROFESSIONAL ENGINEER — 10/30/2025

DRAWING TITLE:

PARK UTILITY PLAN SHEET 1 OF 2

ACCESSION #:104976x

DESIGNED: DPG/RJS

DRAWN: AS CHECKED: JC

DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

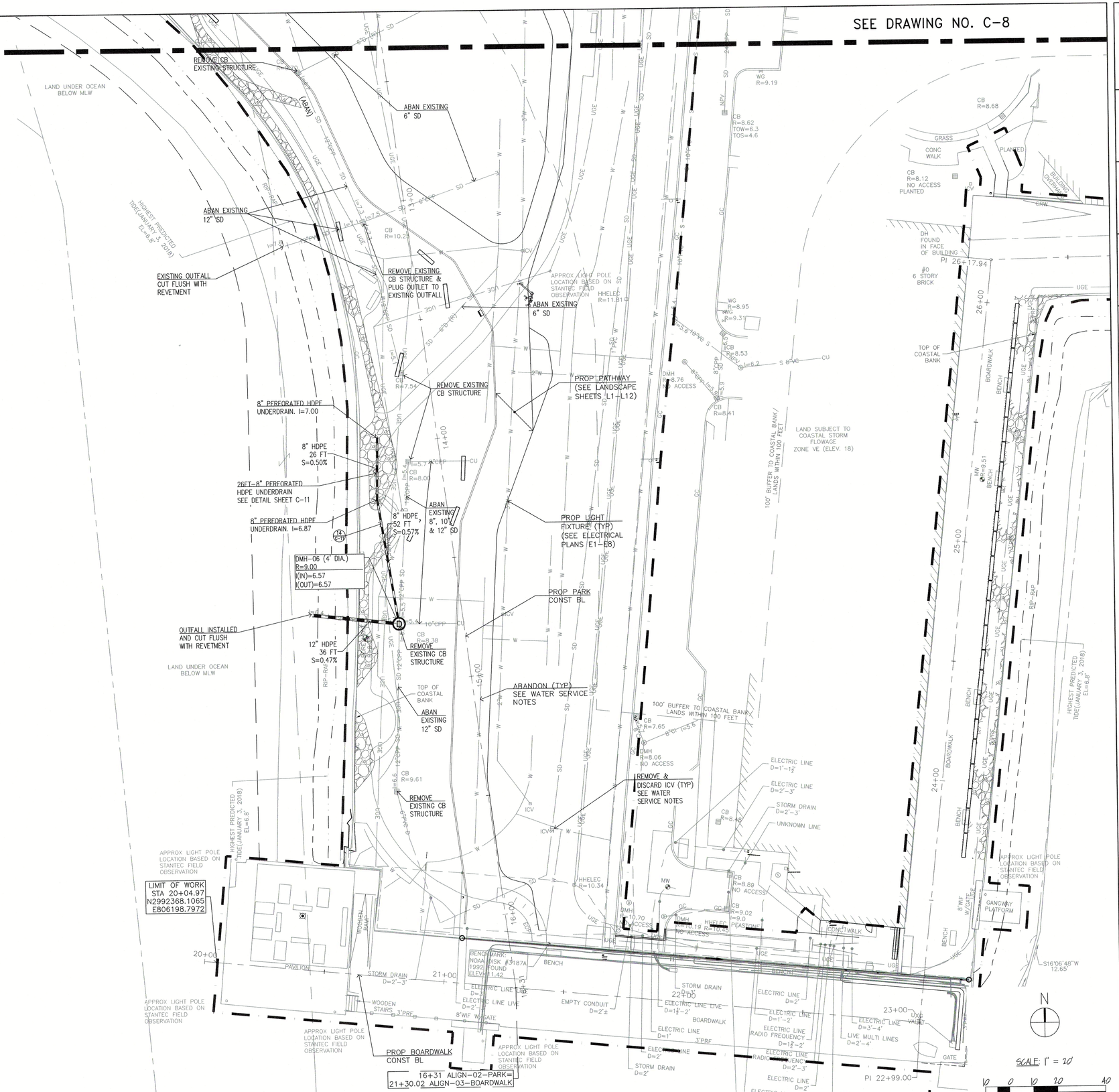
SUBMISSION: BID SET

DRAWING NO.

C-8

MATCH LINE

SEE DRAWING NO. C-8



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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS JOHN CALNAN CIVIL No. 40894 REGISTERED PROFESSIONAL ENGINEER
10/30/25

COMMONWEALTH OF MASSACHUSETTS RYAN J STACKPOLE CIVIL No. 53008 REGISTERED PROFESSIONAL ENGINEER
10/20/2025

DRAWING TITLE:

PARK UTILITY PLAN SHEET 2 OF 2

ACCESSION #:104977x

DESIGNED: DPG/RJS

DRAWN: AS CHECKED: JC

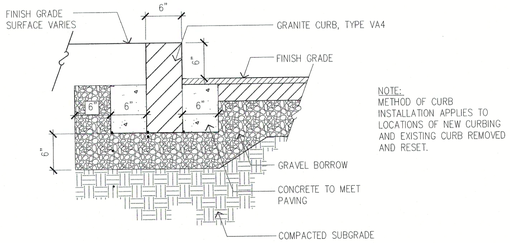
DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

SUBMISSION: BID SET

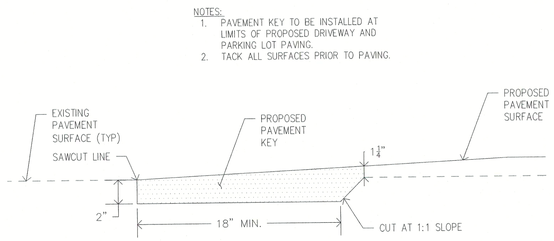
DRAWING NO.

C-9



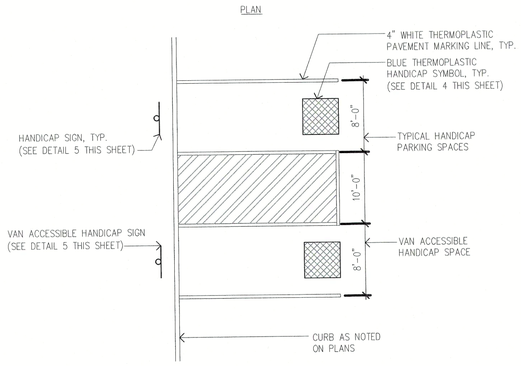
NOTE:
METHOD OF CURB INSTALLATION APPLIES TO LOCATIONS OF NEW CURBING AND EXISTING CURB REMOVED AND RESET.

1 VERTICAL GRANITE CURB

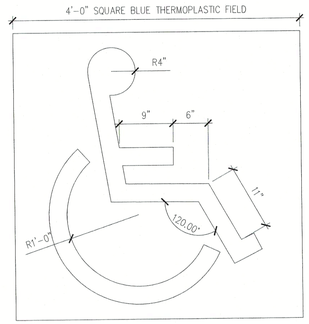


NOTES:
1. PAVEMENT KEY TO BE INSTALLED AT LIMITS OF PROPOSED DRIVEWAY AND PARKING LOT PAVING.
2. TACK ALL SURFACES PRIOR TO PAVING.

2 PAVEMENT KEY



3 HANDICAP PARKING SPACE LAYOUT

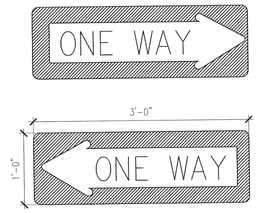


NOTES:
1. SYMBOL SHALL BE CENTERED IN THE PARKING STALL.
2. SYMBOL LINES SHALL BE 3" WIDTH WHITE PAINT IN BLUE THERMOPLASTIC FIELD

4 HANDICAP PAVEMENT MARKING SYMBOL

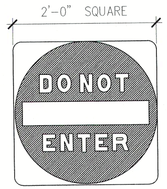


5 HANDICAP PARKING SIGN (R7-8, R7-8p)



NOTES:
1. SIGN MATERIALS TO BE REFLECTIVE SHEETING ON .080 ALUMINUM AS PER SPECIFICATIONS
2. SIGN SHALL HAVE BLACK TEXT AND SYMBOL ON WHITE FIELD
3. ALL TEXT, COLORS, FONTS, AND DIMENSIONS SHALL BE APPROVED BY CITY ENGINEER.

6 ONE WAY (R6-1)



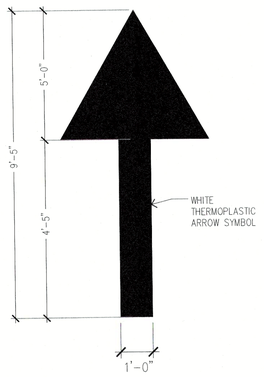
NOTES:
1. SIGN MATERIALS TO BE REFLECTIVE SHEETING ON .080 ALUMINUM AS PER SPECIFICATIONS
2. SIGN SHALL HAVE WHITE LETTERING ON RED FIELD

7 DO NOT ENTER SIGN (R5-1)



NOTES:
1. SIGN MATERIALS TO BE REFLECTIVE SHEETING ON .080 ALUMINUM AS PER SPECIFICATIONS
2. SIGN SHALL HAVE WHITE LETTERING ON RED FIELD

8 STOP SIGN (R1-1)



9 PAVEMENT ARROW SYMBOL

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VETERANS MEMORIAL PARK
WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JOHN CALNAN CIVIL No. 40894 REGISTERED PROFESSIONAL ENGINEER
John Calnan
10/30/25

DRAWING TITLE:

CIVIL DETAILS
SHEET 1 OF 3

ACCESSION #:104978x

DESIGNED: JC

DRAWN: MEH CHECKED: JJH

DATE: NOVEMBER 12, 2025

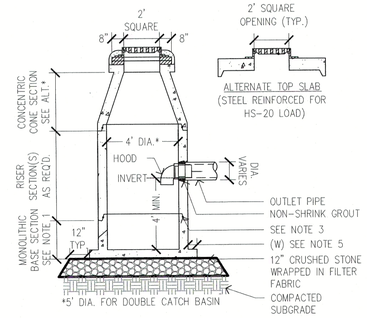
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SUBMISSION: BID SET

DRAWING NO.

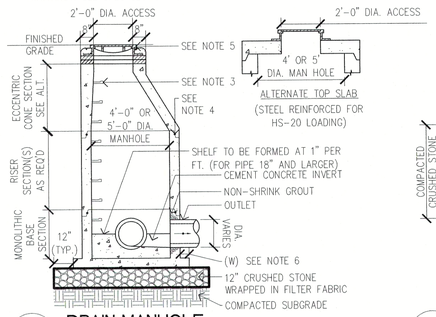
C-10

NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 1" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. CATCH BASIN FRAME SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR. (2 BRICK COURSES 6" MIN. 5 BRICK COURSES MAX.).
5. UTILITY STRUCTURE BASE EXTENSION (W) AS REQUIRED TO OVERCOME BUOYANCY. SEE SPEC SECTION 02630.

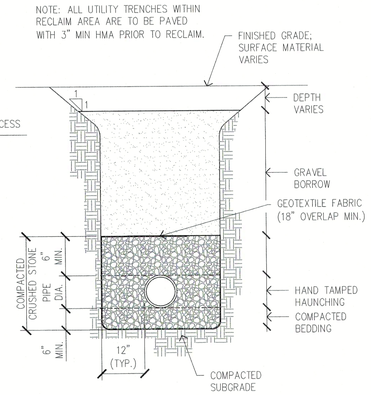


10 CATCH BASIN
SCALE: NTS

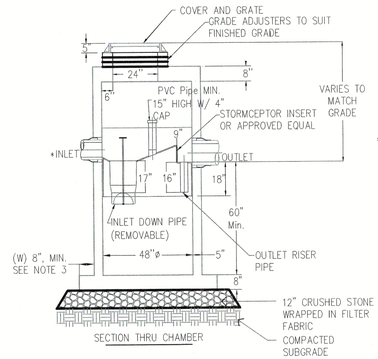
NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 1" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
5. DRAIN MANHOLE FRAME SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES 6" MINIMUM 5 BRICK COURSES MAXIMUM).
6. UTILITY STRUCTURE BASE EXTENSION (W) AS REQUIRED TO OVERCOME BUOYANCY. SEE SPEC SECTION 02630.

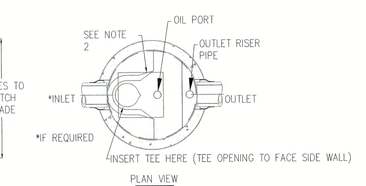


11 DRAIN MANHOLE
SCALE: NTS



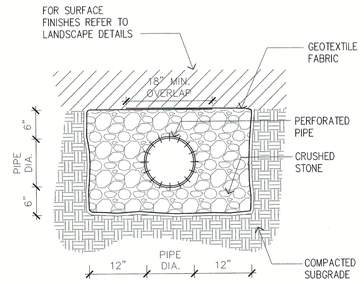
12 DRAINAGE UTILITY TRENCH
SCALE: NTS



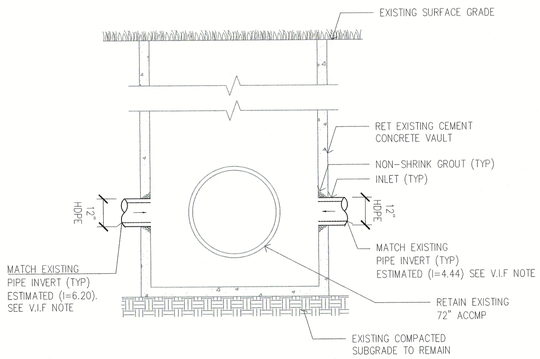


NOTES:
1. THE USE OF FLEXIBLE CONNECTION IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE OIL PORT.
3. UTILITY STRUCTUREBASE EXTENSION (W) AS REQUIRED TO OVERCOME BUOYANCY. SEE SPEC SECTION 02630.
4. CONTACT A MANUFACTURER FOR FURTHER DETAILS NOT LISTED ON THE DRAWING.

13 WATER QUALITY UNIT
SCALE: NTS



14 UNDERDRAIN
SCALE: NTS



15 DRAIN CONNECTION AT VAULT
SCALE: NTS

V.I.F NOTE:
ALL PROPOSED INVERTS WITHIN THE PARKING DRAINAGE SYSTEMS ARE BASED ON ESTIMATED EXISTING INVERTS AT THE VAULT TIE-IN LOCATION. CONTRACTOR SHALL VERIFY THE TIE-IN INVERTS AND REPORT SAME TO THE ENGINEER PRIOR TO SUBMITTING STRUCTURE SHOP DRAWINGS FOR REVIEW.

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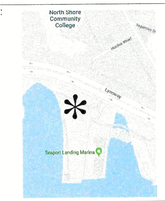
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VETERANS MEMORIAL PARK
WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JOHN CALNAN CIVIL No. 40694 REGISTERED PROFESSIONAL ENGINEER
10/3/25

DRAWING TITLE:

CIVIL DETAILS SHEET 2 OF 3

ACCESSION #:104979x

DESIGNED: DPG

DRAWN: AS CHECKED: JC

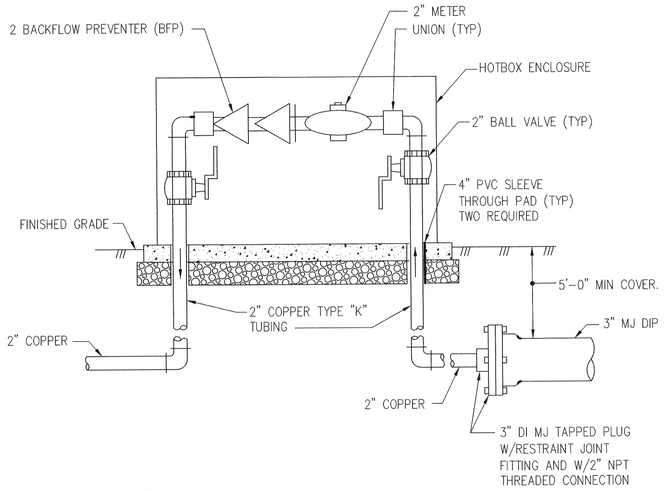
DATE: NOVEMBER 12, 2025

SCALE: NOT TO SCALE

SUBMISSION: BID SET

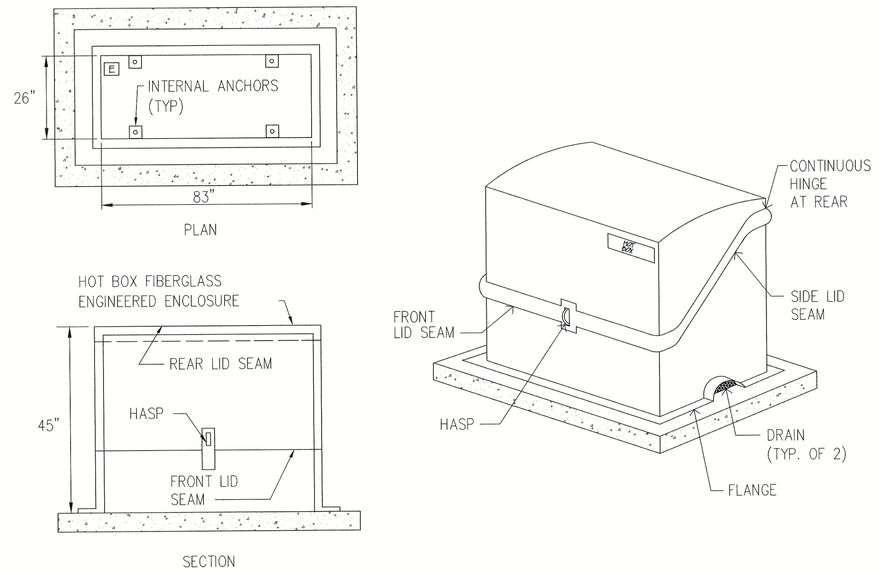
DRAWING NO.

C-11



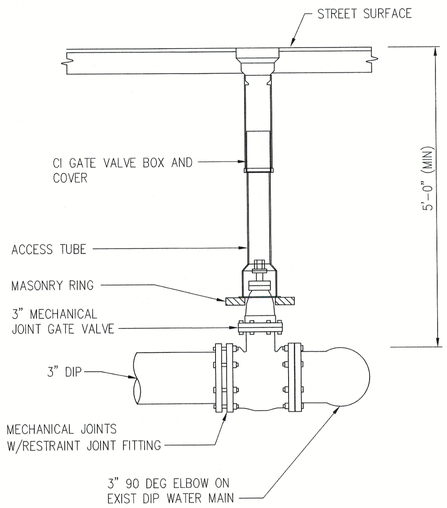
18 WATER METER/BFP ELEVATION
NOT TO SCALE

1. SERVICE LINE (COPPER TYPE "K") SHALL BE BROUGHT UP TO BACKFLOW PREVENTER TO FIT IN BOX. ALL SERVICE BRASS SHALL BE ANSI NSF61 (NO LEAD) COMPLIANT.
2. CONCRETE PAD SHALL BE SIZED PER ENCLOSURE'S MANUFACTURER.
3. ALL VALVES, CORPORATION AND CURB STOPS SHALL OPEN RIGHT.
4. CONNECTION TO CONTROLLER CABINET SHALL HAVE UNION TO ALLOW FOR DRAINING OF THE LINE AND WINTERIZING THE SYSTEM.

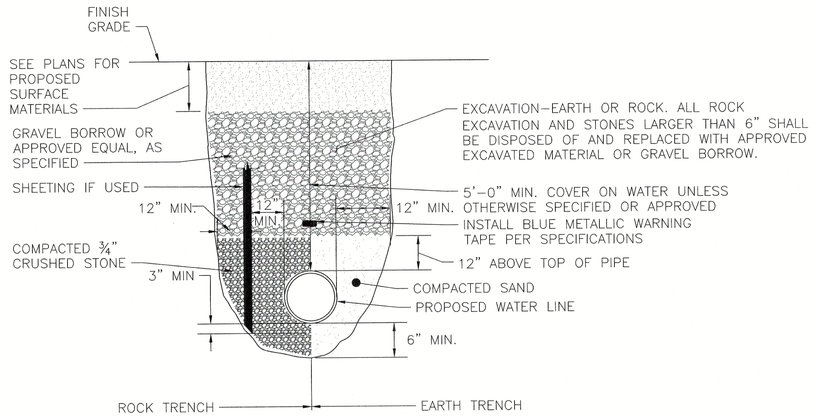


19 HOTBOX ENCLOSURE DETAIL
NOT TO SCALE

NOTE: WEATHER RESISTANT PADLOCK TO BE PROVIDED WITH HOTBOX ENCLOSURE AND KEYS (2) PROVIDED TO THE MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION AT PROJECT SUBSTANTIAL COMPLETION.



20 WATER SERVICE CONNECTION DETAIL
NOT TO SCALE



NOTE:
1. REFER TO SPECIFICATION SECTION 02200 FOR MATERIAL REQUIREMENTS

21 TYPICAL WATER PIPE TRENCH SECTION
NOT TO SCALE

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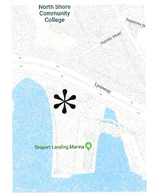
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VETERANS MEMORIAL PARK
WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
RYAN J STACKPOLE
CIVIL
No. 53008
REGISTERED PROFESSIONAL ENGINEER
10/30/2025

DRAWING TITLE:

CIVIL DETAILS
SHEET 3 OF 3

ACCESSION #:104980x

DESIGNED: RJS

DRAWN: JS CHECKED: JC

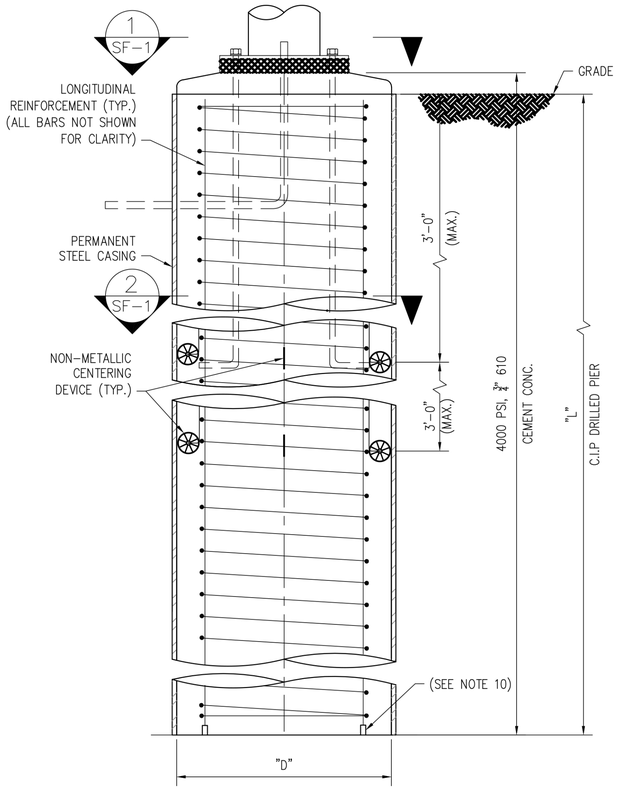
DATE: NOVEMBER 12, 2025

SCALE: NOT TO SCALE

SUBMISSION: BID SET

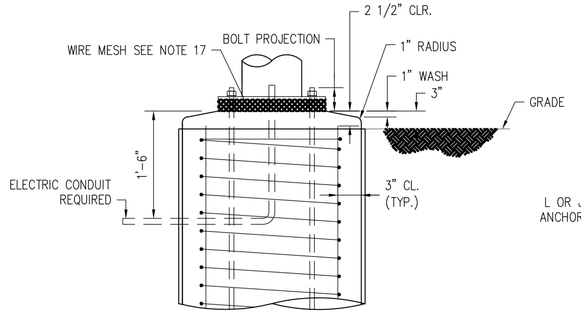
DRAWING NO.

C-12



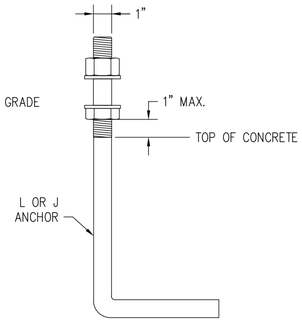
TYPICAL DRILLED SHAFT DETAIL

NOT TO SCALE



TOP OF DRILLED SHAFT DETAIL

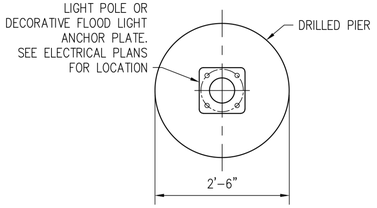
NOT TO SCALE



(4) ANCHOR BOLTS WITH (4) HEX NUTS, (4) FLAT WASHERS, AND (1) LOCK-WASHER PER BOLTS.

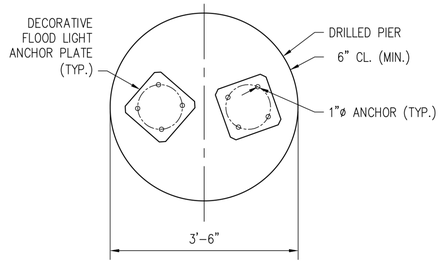
ANCHOR BOLT

NOT TO SCALE



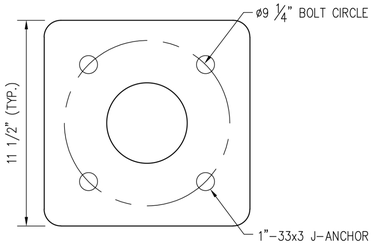
SECTION 1 SF-1

NOT TO SCALE



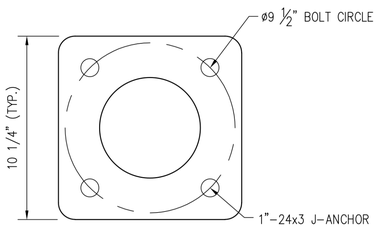
SECTION AT FIXTURE ID C02, C03 1 SF-1

NOT TO SCALE



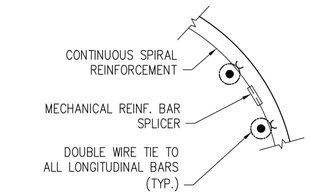
16' LIGHT POLE ANCHOR PLATE DETAIL

NOT TO SCALE



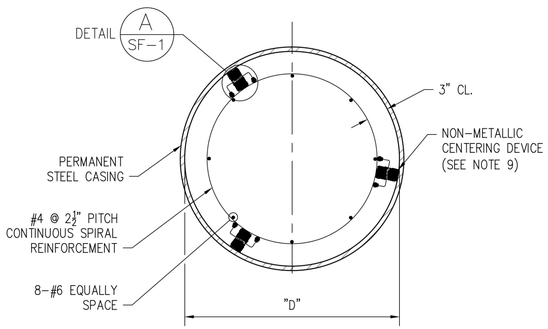
20' LIGHT POLE ANCHOR PLATE DETAIL

NOT TO SCALE



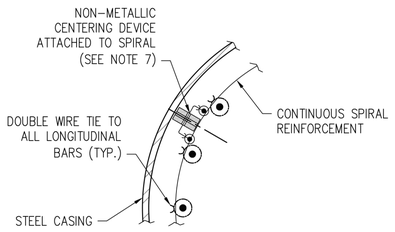
SPIRAL REINFORCEMENT SPLICE DETAIL

NOT TO SCALE



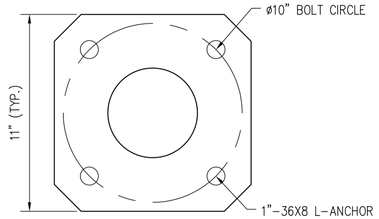
SECTION 2 SF-1

NOT TO SCALE



DETAIL A SF-1

NOT TO SCALE



DECORATIVE FLOOD LIGHT ANCHOR PLATE DETAIL

NOT TO SCALE

FOUNDATION NOTES:

1. SEE ELECTRICAL PLAN SHEETS FOR LOCATION AND TYPE OF LIGHT POLE FOUNDATION.
2. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60, DEFORMED, EPOXY COATED, UNLESS NOTED OTHERWISE.
3. SPLICES ARE NOT ALLOWED IN THE TOP OF 10' OF THE PIER.
4. ALL BARS AND MECHANICAL SPLICES IN DRILLED PIERS SHALL BE EPOXY COATED.
5. DRILLED SHAFTS SHALL BE 4000 PSI, 3/4", 610 CEMENT CONCRETE.
6. CENTERING DEVICES SHALL BE CONSTRUCTED OF AN APPROVED NON-METALLIC DURABLE MATERIAL.
7. THE NON-METALLIC CENTERING DEVICE SHALL BE OF ADEQUATE SIZE TO INSURE A MINIMUM 3" ANNULAR SPACE BETWEEN THE OUTSIDE OF THE REINFORCEMENT CAGE AND THE SIDES OF THE EXCAVATED HOLE OR INSIDE OF CASING.
8. THERE SHALL BE A MINIMUM OF 3 GROUPS OF NON-METALLIC CENTERING DEVICES FOR SHAFTS LESS THAN 26'-0" IN LENGTH.
9. NON-METALLIC CENTERING DEVICES SHALL BE PLACED AT A MAXIMUM SPACING OF 2'-6" AROUND THE CIRCUMFERENCE OF THE SHAFT.
10. EACH LONGITUDINAL BAR SHALL BE SUPPORTED BY A 3" HIGH BOLSTER OF APPROVED NON-METALLIC DURABLE MATERIAL.
11. SPLICE OF LONGITUDINAL REINFORCEMENT SHALL BE ARRANGED IN GROUPS OF TWO DIAGONALLY OPPOSITE PAIRS THAT ARE STAGGERED VERTICALLY AT LEAST 12" ON CENTER.
12. IF SPLICING OF SPIRAL REINFORCEMENT IS NECESSARY, A MINIMUM OF 2" CLEARANCE SHALL BE PROVIDED BETWEEN THE OUTSIDE SURFACE OF MECHANICAL REINFORCING BAR SPLICERS AND THE DRILLED SHAFT CASING OR EXCAVATED SURFACE.
13. WELDING OF THE REINFORCEMENT BARS SHALL NOT BE PERMITTED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. WELDING OF LONGITUDINAL REINFORCEMENT SHALL NOT BE PERMITTED.
14. PERMANENT CASINGS SHALL EXTEND THE FULL DEPTH OF EACH DRILLED PIER.
15. THICKNESS OF CASING IS TO BE DETERMINED BY THE CONTRACTOR BASED ON THE CONSTRUCTION METHOD/EQUIPMENT TO BE USED. CASING SHALL PERFORM SATISFACTORILY DURING CONSTRUCTION OF THE SHAFTS.
16. SEE DRILLED PIER TABLE ON SHEET SF-2 FOR DRILLED PIER LENGTHS.
17. A GALVANIZED WIRE MESH SCREEN SHALL BE INSTALLED AT BASE OF POLE. SCREEN SHALL BE PRESS-FORMED OF 3 OR 4 MESH, 21 GAGE OR HEAVIER, STAINLESS STEEL OR HOT DIPPED GALVANIZED WIRE SCREEN OR APPROVED EQUAL. SCREEN SHALL BE SCREWED INTO POLE BASE PLATE, AND SHALL BE FLUSH WITH TOP OF THE PIER FOUNDATION.

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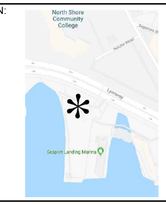
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
ERIK S. VILMUNEN
STRUCTURAL
No. 41593
REGISTERED PROFESSIONAL ENGINEER

Erik Vilmunen
2025.10.30 16:58:06-04'00'

DRAWING TITLE:

PARK LIGHTING FOUNDATION DETAILS SHEET 1 OF 2

ACCESSION #:104981x

DESIGNED: NJS

DRAWN: NJS CHECKED: ESV

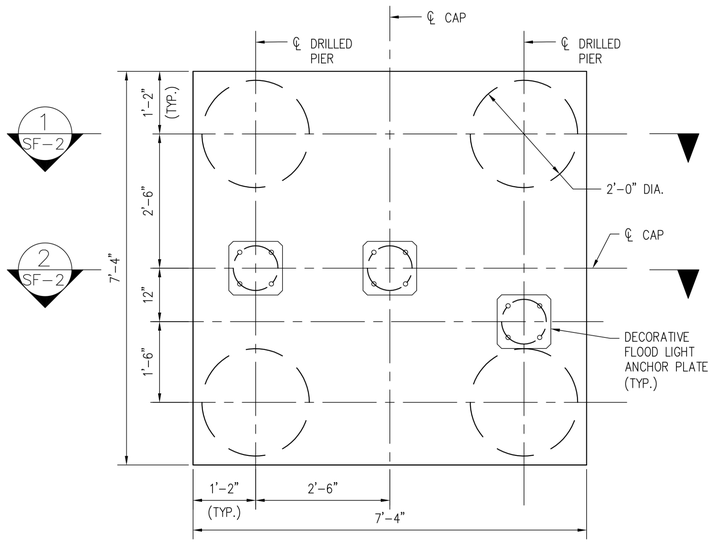
DATE: NOVEMBER 12, 2025

SCALE: NTS

SUBMISSION: BID SET

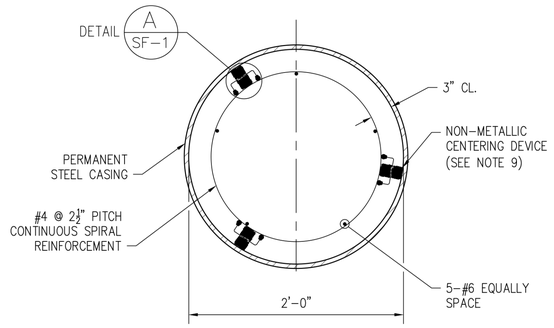
DRAWING NO.

SF-1



DRILLED SHAFT CAP AT FIXTURE ID C08, C09, C10 - PLAN

SCALE: 3/4" = 1'–0"



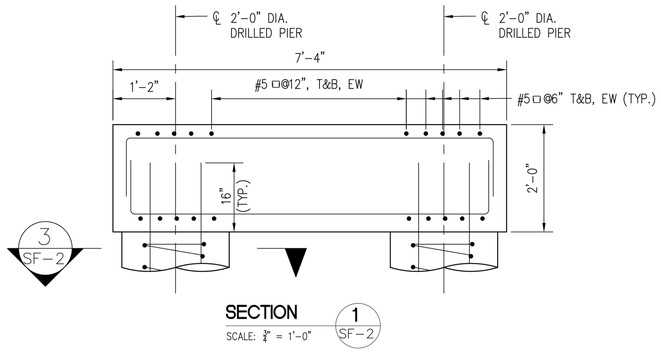
SECTION 3 SF–2

NOT TO SCALE

POLE MOUNTED LUMINAIRE DRILLED SHAFT TABLE		
FIXTURE ID	"D"	"L"
A01	2'–6"	10'–0"
A02	2'–6"	10'–0"
A03	2'–6"	10'–0"
A04	2'–6"	10'–0"
A05	2'–6"	10'–0"
A06	2'–6"	10'–0"
A07	2'–6"	26'–0"
A08	2'–6"	26'–0"
A09	2'–6"	10'–0"
A10	2'–6"	10'–0"
A11	2'–6"	26'–0"
A12	2'–6"	26'–0"
A13	2'–6"	26'–0"
A14	2'–6"	26'–0"
B01	2'–6"	10'–0"
B02	2'–6"	10'–0"
B03	2'–6"	10'–0"
B04	2'–6"	10'–0"
B05	2'–6"	10'–0"
B06	2'–6"	10'–0"
B07	2'–6"	10'–0"
B08	2'–6"	10'–0"

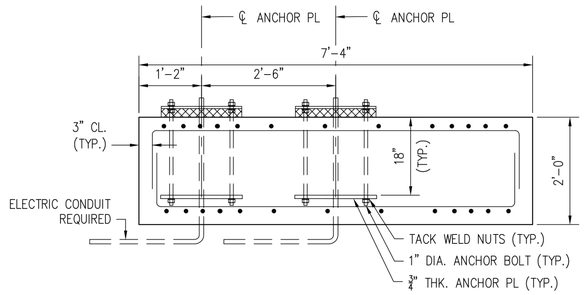
DECORATIVE FLOOD LIGHT POLE DRILLED SHAFT TABLE		
FIXTURE ID	"D"	"L"
C01	2'–6"	10'–0"
C02,C03*	3'–6"	10'–0"
C04	2'–6"	10'–0"
C05	2'–6"	10'–0"
C06	2'–6"	10'–0"
C07	2'–6"	10'–0"
C08,C09,C10*	2'–0"	26'–0"

* DENOTES SHARED FOUNDATION



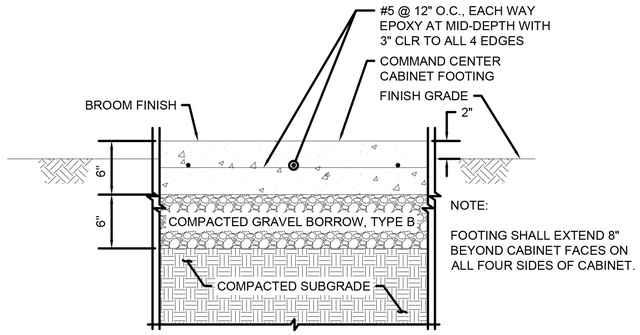
SECTION 1 SF–2

SCALE: 3/4" = 1'–0"



SECTION 2 SF–2

SCALE: 3/4" = 1'–0"



COMMAND CENTER CABINET FOOTING DETAIL

NOT TO SCALE

NOTE:

SEE FOUNDATION NOTES ON SHEET SF–1

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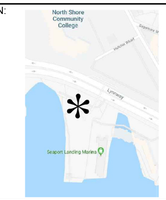
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
ERIK S. VILMUNEN
STRUCTURAL
No. 41593
REGISTERED PROFESSIONAL ENGINEER

Erik Vilmunen
2025.10.30 17:00:17-04'00'

DRAWING TITLE:

PARK LIGHTING FOUNDATION DETAILS SHEET 2 OF 2

ACCESSION #:104982x

DESIGNED: NJS

DRAWN: NJS CHECKED: ESV

DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

SF-2

LIGHTING LEGEND

A CKT–# X AXX	16 FOOT POLE MOUNTED LUMINAIRE. 'X' DENOTES DISTRIBUTION TYPE (35W) 'AXX' DENOTES POLE ID
B CKT–# X BXX	20 FOOT POLE MOUNTED LUMINAIRE. 'X' DENOTES DISTRIBUTION TYPE (80W OR 108W) 'BXX' DENOTES POLE ID
	LIGHTING LOAD CENTER
	UNDERGROUND CONDUITS AND WIRING SHALL BE INSTALLED AS INDICATED ON THE DETAILS
HHX	HANDHOLE, 'HHX' DENOTES HANDHOLE, TYPE 1 DESIGNATION
HHX	HANDHOLE, 'HHX' DENOTES HANDHOLE, TYPE 2 DESIGNATION
WP GFI	POLE MOUNTED DUPLEX RECEPTACLE 'WP' – WATERPROOF 'GFI' – GROUND FAULT INDICATOR
X C CKT–# CXX	DECORATIVE FLOOD LIGHT POLE. 'X' DENOTES POLE NUMBER (55W EA.) 'CXX' DENOTES POLE ID
	JUNCTION BOX MOUNTED UNDER DECK
X	PROPOSED CONDUIT LABEL
	INDICATES EXISTING LIGHT FIXTURE, POLE AND FOUNDATION TO BE REMOVED. DISCONNECT POWER AT SOURCE BEFORE COMMENCING WORK. COORDINATE THE DISPOSAL OF FIXTURES WITH DCR AND CITY OF LYNN. REFER TO GENERAL NOTE 22

ABBREVIATIONS

A	AMPERE
(ABAN)	ABANDON
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
DCR	DEPARTMENT OF CONSERVATION AND RECREATION
DIA	DIAMETER
ELEC.	ELECTRIC
EMH	ELECTRIC MANHOLE
FC	FULL CUTOFF
FT	FOOT
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
LC	LIGHTING CIRCUIT
LLC	LIGHTING LOAD CENTER
LP	LIGHT POLE
MASSDOT	MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
MIN.	MINIMUM
O	ORANGE
OD	OUTER DIAMETER
O.C.	ON CENTER
P	POLE
PVC	POLYVINYL CHLORIDE
RM	RIGID METAL
RGS	RIGID GALVANIZED STEEL
R&D	REMOVE AND DISPOSE
SC	SEMI–CUTOFF DISTRIBUTION
SCH	SCHEDULE
SPST	SINGLE POLE DOUBLE THROW
TYP.	TYPICAL
UL	UNDERWRITERS LABORATORIES
V	VOLT
W	WATT / WHITE
W/	WITH

GENERAL NOTES:

1. CONDUIT RUNS SHOWN ARE APPROXIMATE. LOCATIONS MAY BE ADJUSTED TO MATCH EXISTING AND PROPOSED CONDITIONS AS REQUIRED BY THE RESIDENT ENGINEER.
2. THE CONTRACTOR SHALL VISIT THE JOB SITE WITH THE CONTRACT DOCUMENTS AND INVESTIGATE ALL CONDITIONS AFFECTING THIS WORK. THE CONTRACTOR SHALL BE FAMILIAR WITH THE LOCATION AND SITE OF THE WORK, AND SHALL VERIFY DIMENSIONS, QUANTITIES, ACTUAL INSTALLATION CONDITIONS, CONFLICTS, AND STORAGE FACILITIES.
3. ALL WIRING IN THE PANELBOARDS AND CABINETS SHALL BE PERMANENTLY LABELED AND NEATLY INSTALLED.
4. ALL CONDUIT AND EQUIPMENT TO BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (NFPA 70 AND 30), MASSACHUSETTS ELECTRICAL CODE AND APPLICABLE LOCAL CODES. LIGHTING SHALL COMPLY WITH MASSACHUSETTS STANDARDS FOR ENERGY CONSERVATION AND DARK SKY REQUIREMENTS. LIGHTING SHALL ALSO COMPLY WITH THE LATEST EDITION OF IESNA LIGHTING HANDBOOK.

   THE INSTALLATIONS OF THE LIGHTING ASSEMBLIES SHALL COMPLY WITH RELEVANT RECOMMENDED PRACTICE AS PUBLISHED IN THE LATEST EDITIONS OF THE ILLUMINATING ENGINEERING SOCIETY (IES) STANDARDS.
5. ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED FOR ITS INTENDED PURPOSE.
6. WIRE SIZES SHALL BE BASED ON AMERICAN WIRE GAGE (AWG), AS APPLIED TO COPPER CONDUCTORS. THE CONDUCTOR INSULATION SHALL BE TYPE USE–2 OR RHH–RHW–2.
7. WIRE AND CABLE FURNISHED AND USED SHALL BE NEW. WIRE AND CABLE SHALL BE PROTECTED FROM WEATHER AND DAMAGE DURING STORAGE AND HANDLING.
8. NO WIRE SHALL BE DRAWN IN TO ANY CONDUIT UNTIL ALL WORK WHICH MAY CAUSE CABLE DAMAGE IS COMPLETE.
9. THE CONTRACTOR SHALL CAREFULLY MARK THE PROPOSED LOCATION OF ALL CONCRETE FOUNDATIONS AND THEN SHALL DETERMINE IF ANY UTILITIES, OR UNDERGROUND OR OVERHEAD OBSTRUCTION WILL PREVENT THE INSTALLATION AT THIS LOCATION. SIMILAR MARKING SHALL BE DONE FOR THE CONDUIT RUNS TO APPLICABLE FOUNDATIONS. IF SUCH AN OBSTRUCTION IS EVIDENT, THE CONTRACTOR SHALL REQUEST PERMISSION FROM THE ENGINEER TO MOVE OR ADJUST THE LOCATION OF ANY FOUNDATIONS.
10. THE CONTRACTOR SHALL PERFORM THE WORK IN A MANNER ACCEPTABLE TO THE ENGINEER SO THAT INTERFERENCE WITH OR INCONVENIENCE TO BUSINESS CONCERNS OR ABUTTERS ON ACCOUNT OF THE CONSTRUCTION WORK IS KEPT TO A MINIMUM. THE CONTRACTOR SHALL MAINTAIN SAFE AND REASONABLE ACCESS TO AND EGRESS FROM ABUTTING PROPERTIES AT ALL TIMES.
11. THE CONTRACTOR SHALL BE REQUIRED TO ADHERE TO ALL REGULATIONS IMPOSED BY THE CITY OF LYNN AND THE DCR.
12. ELECTRICAL SERVICE TO THE LIGHTING LOAD CENTER (LLC) WILL BE PROVIDED BY NATIONAL GRID. CONTRACTOR SHALL COORDINATE WITH NATIONAL GRID FOR SERVICE CONNECTION. CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRIC SERVICE CONNECTIONS AND RELATED FEES FROM NATIONAL GRID. CONTRACTOR SHALL COORDINATE ALL WORK AS REQUIRED WITH NATIONAL GRID FOR WORK SHOWN ON DRAWINGS E–9 AND UT–7.
13. UNDERGROUND CONDUIT SHALL BE INSTALLED WITH METALLIC DETECTABLE CAUTION TAPE ABOVE.
14. ALL WIRE SHALL BE CONTINUOUS FROM POLE TO POLE WITHOUT RUNNING SPLICES IN CONDUITS. ALL WIRES SHALL EXTEND 24" OUT OF THE POLE PULL BOX, CONNECTED AT ENDS AND ROLLED BACK INTO THE PULL BOX.
15. SPLICES SHALL BE IN ACCORDANCE WITH SECTION 813 OF THE MASSHIGHWAY STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
16. THE HOT LINE AND NEUTRAL CONNECTION IN THE POLE HANDHOLE SHALL BE WITH AN APPROVED STREET LIGHT FUSE CONNECTOR.
17. THE LOCATIONS OF EXISTING SUBSURFACE UTILITIES SHOWN ON THE PLANS WERE COMPILED FROM SURVEY AND AVAILABLE RECORD DRAWINGS AND ARE NOT WARRANTED TO BE CORRECT. THE LOCATIONS ARE APPROXIMATE ONLY AND IN SOME CASES MAY BE INCOMPLETE. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES REQUIRED AND VERIFY THE LOCATION OF ALL EXISTING SUBSURFACE UTILITIES PRIOR TO PERFORMING ANY WORK.
18. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING FEATURES PRIOR TO PERFORMING ANY WORK.
19. THE CONTRACTOR SHALL MAINTAIN AREAS IN AND AROUND THE WORK ZONE FREE AND CLEAR OF DEBRIS AT ALL TIMES. NO STOCKPILING OF EQUIPMENT OR MATERIAL SHALL BE PERMITTED OUTSIDE OF FIXED WORK ZONES.
20. THE CONTRACTOR SHALL INSTALL OTHER NECESSARY TEMPORARY REGULATORY AND WARNING SIGNS DURING CONSTRUCTION AS REQUIRED BY THE ENGINEER FOR OTHER INCIDENTAL CONSTRUCTION ACTIVITIES. ALL SIGNAGE AND TRAFFIC CONTROL DEVICES USED MUST CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2023 EDITION AND THE LATEST ADDENDUMS.
21. CONTRACTOR IS TO COORDINATE ALL WORK WITH THE CITY OF LYNN AND THE DCR.
22. EXISTING LIGHTING SYSTEM LIGHT POLES, LUMINARIES, FOUNDATIONS AND CIRCUIT CONDUCTORS SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER. DURING LANDSCAPING AND EXCAVATION WHERE POTENTIAL EXISTING UTILITIES MAY BE LOCATED, THE CONTRACTOR SHALL HAND DIG TO EXPOSE THE EXISTING UTILITY. ONCE THE UNDERGROUND UTILITY HAS BEEN IDENTIFIED THE CONTRACTOR SHALL REMOVE AND DISPOSE AS REQUIRED. CONTRACTOR SHALL NOTIFY ANY UNKNOWN ELECTRICAL UNDERGROUND UTILITIES IDENTIFIED WITHIN THE PROJECT AREA TO THE ENGINEER. CONDUIT SHALL BE ABANDONED IN PLACE UNLESS REQUIRED TO BE REMOVED FOR PROPOSED WORK.
23. LUMINAIRE MAINTENANCE: GIVEN AMBIENT ENVIRONMENT AND PROXIMITY TO OCEAN, OWNER SHALL PERFORM REGULAR CLEANING OF LUMINAIRE LENS AND FIXTURE HOUSING TO AVOID ACCELERATED LIGHT LEVEL AND LUMINAIRE DEPRECIATION OVER TIME. THIS MAINTENANCE IS REQUIRED FOR THE LIGHTING TO MEET THE MAINTAINED LIGHTING LEVELS AS STIPULATED BY BROWN, RICHARDSON + ROWE (BRR) AND THE SPECIFICATIONS ACCOMPANYING THESE DRAWINGS.

BROWN, RICHARDSON + ROWE

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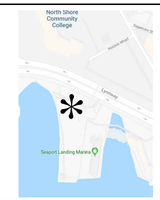
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
DANA BERGMAN
ELECTRICAL
No. 58627
REGISTERED PROFESSIONAL ENGINEER

DRAWING TITLE:

ELECTRICAL LEGEND

ACCESSION #:104983x

DESIGNED: TJM

DRAWN: TJM CHECKED: DMB

DATE: NOVEMBER 12, 2025

SCALE: NONE

SUBMISSION: BID SET

DRAWING NO.

E-1

EXISTING LIGHT FIXTURE AND FOUNDATION SHALL REMAIN

ADJ ELEC HH

100' BUFFER TO COASTAL BANK/ LANDS WITHIN 100 FEET BANK/

LIMIT OF WORK
STA 0+14.09
N2993128.4146
E806145.1872

JERSEY BARRIER

CONC PAD

CONCRETE HEADWALL

LAND UNDER OCEAN BELOW MLW

LYNNWAY (ROUTE 1A)
(1953 MDC LAYOUT)

1953 MDC LAYOUT BASELINE

EXISTING LIGHT FIXTURE AND FOUNDATION SHALL REMAIN

SERVICE CONNECTION CONDUIT, 3"C, 3#2, 1#2 GND. RUN CONDUIT AND WIRE INTO EXISTING DEMARCATION HANDHOLE. COORDINATE SERVICE CONNECTION WITH THE ELECTRICAL UTILITY. WORK ORDER NUMBER USED IN DESIGN IS 28990751.

EXISTING LIGHT FIXTURE AND FOUNDATION SHALL REMAIN

PROP LIMIT OF WORK (TYP)

TOP OF TAL UNK

2+31.63 ALIGN-01-DRIVEWAY=
10+00.00 ALIGN-02-PARK

PROP DRIVEWAY CONST BL

EXISTING CONTROL CABINET AND PANELBOARD P SHALL REMAIN. REFER TO GENERAL NOTE 22 ON DRAWING E-1

EXISTING LIGHT FIXTURE AND FOUNDATION SHALL REMAIN

12" HDPE
57 FT
S=0.51%

PROVIDE BARE, SOLID #8 AWG GROUND CONDUCTOR, TYP. FOR SPLASH PAD EQUIPOTENTIAL BONDING GRID.

EXTEND CONDUIT INTO SPLASH/PAD CONTROL CENTER

LIMIT OF WORK
STA 4+40.56
N2992898.2465
E806434.1190

CONTRACTOR SHALL PROTECT EXISTING 240V CIRCUIT AND CONDUCTORS FROM PANEL P TO PAVILLION DURING CONSTRUCTION ACTIVITIES

EXISTING LIGHT FIXTURE AND FOUNDATION SHALL REMAIN

PROP PARK CONST BL

RIP-RAP

TOP OF COASTAL BANK

100' BUFFER TO COASTAL BANK/ LANDS WITHIN 100 FEET

MATCH LINE

SEE DRAWING NO. E-3

SCALE: 1" = 20'

10 0 10 20 40

N

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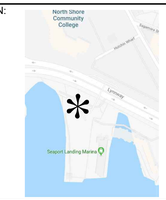
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DANA BERGMAN
ELECTRICAL
No. 58627
REGISTERED
PROFESSIONAL ENGINEER

DRAWING TITLE:

ELECTRICAL PLAN SHEET 1 OF 3

ACCESSION #:104984x

DESIGNED: MLC/DPH

DRAWN: HAB CHECKED: DMB

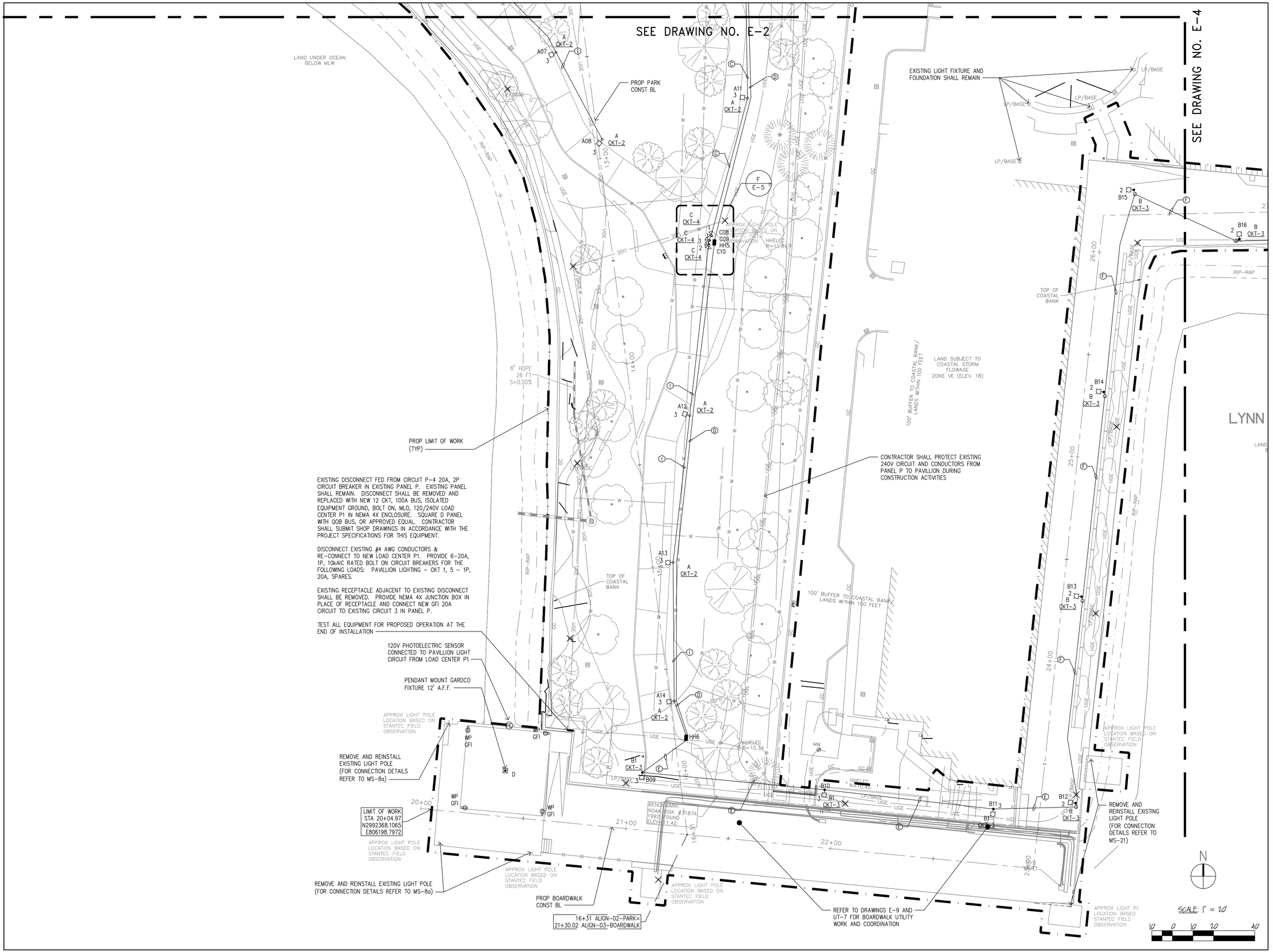
DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

E-2



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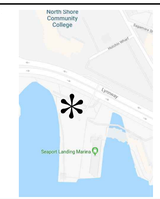
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DANA BERGMAN
ELECTRICAL
No. 58627
REGISTERED PROFESSIONAL ENGINEER

DRAWING TITLE:

ELECTRICAL PLAN SHEET 2 OF 3

ACCESSION #:104985x

DESIGNED: MLC/DPH

DRAWN: HAB CHECKED: DMB

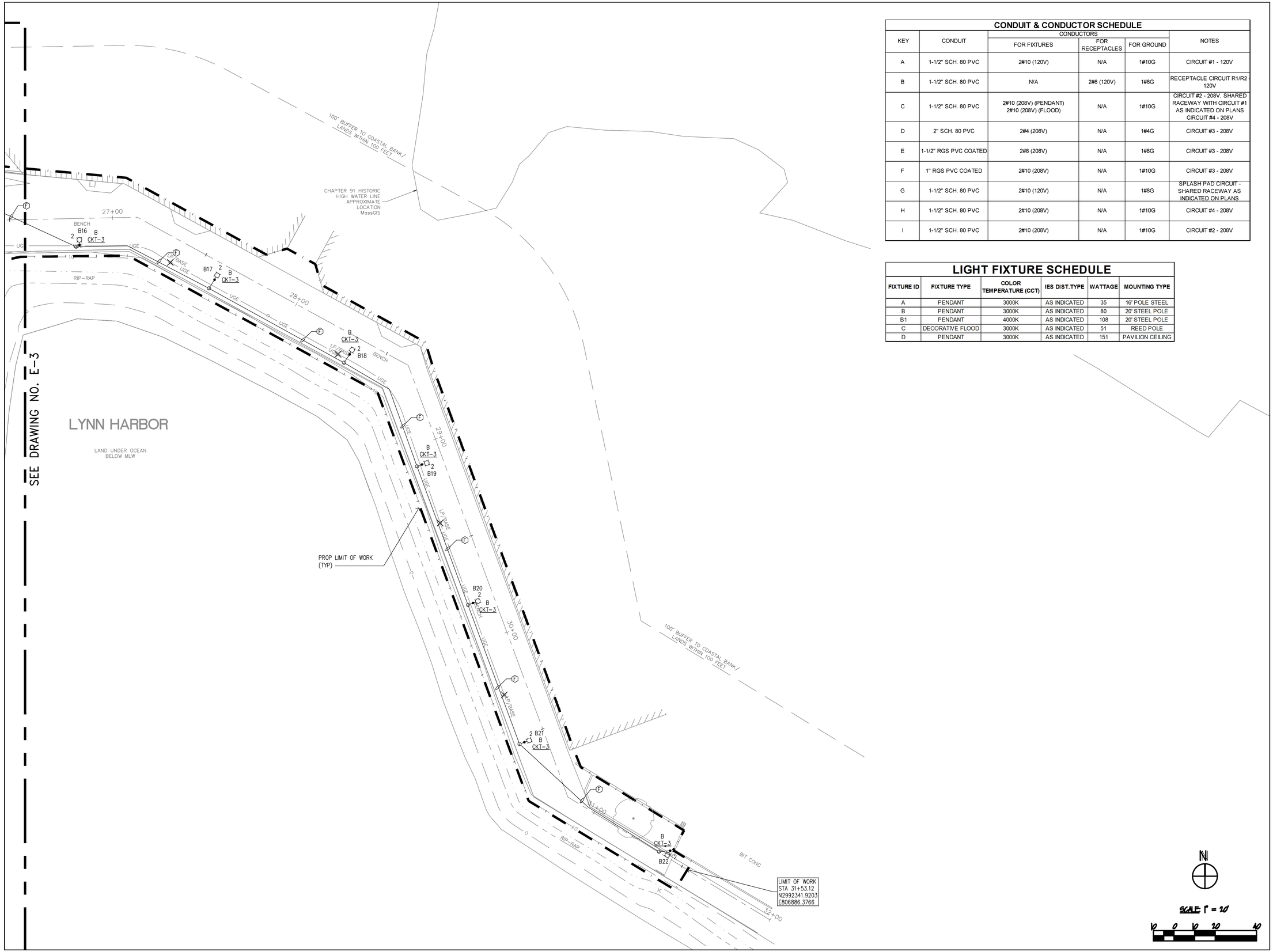
DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

E-3



CONDUIT & CONDUCTOR SCHEDULE

KEY	CONDUIT	CONDUCTORS			NOTES
		FOR FIXTURES	FOR RECEPTACLES	FOR GROUND	
A	1-1/2" SCH. 80 PVC	2#10 (120V)	N/A	1#10G	CIRCUIT #1 - 120V
B	1-1/2" SCH. 80 PVC	N/A	2#6 (120V)	1#6G	RECEPTACLE CIRCUIT R1/R2 120V
C	1-1/2" SCH. 80 PVC	2#10 (208V) (PENDANT) 2#10 (208V) (FLOOD)	N/A	1#10G	CIRCUIT #2 - 208V, SHARED RACEWAY WITH CIRCUIT #1 AS INDICATED ON PLANS CIRCUIT #4 - 208V
D	2" SCH. 80 PVC	2#4 (208V)	N/A	1#4G	CIRCUIT #3 - 208V
E	1-1/2" RGS PVC COATED	2#8 (208V)	N/A	1#8G	CIRCUIT #3 - 208V
F	1" RGS PVC COATED	2#10 (208V)	N/A	1#10G	CIRCUIT #3 - 208V
G	1-1/2" SCH. 80 PVC	2#10 (120V)	N/A	1#8G	SPLASH PAD CIRCUIT - SHARED RACEWAY AS INDICATED ON PLANS
H	1-1/2" SCH. 80 PVC	2#10 (208V)	N/A	1#10G	CIRCUIT #4 - 208V
I	1-1/2" SCH. 80 PVC	2#10 (208V)	N/A	1#10G	CIRCUIT #2 - 208V

LIGHT FIXTURE SCHEDULE

FIXTURE ID	FIXTURE TYPE	COLOR TEMPERATURE (CCT)	IES DIST.TYPE	WATTAGE	MOUNTING TYPE
A	PENDANT	3000K	AS INDICATED	35	16' POLE STEEL
B	PENDANT	3000K	AS INDICATED	80	20' STEEL POLE
B1	PENDANT	4000K	AS INDICATED	108	20' STEEL POLE
C	DECORATIVE FLOOD	3000K	AS INDICATED	51	REED POLE
D	PENDANT	3000K	AS INDICATED	151	PAVILION CEILING

N

SCALE: 1" = 20'

0 10 20 40

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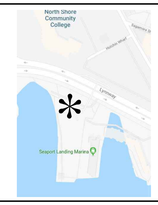
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COMMONWEALTH OF MASSACHUSETTS
DANA BERGMAN
ELECTRICAL
No. 58627
REGISTERED
PROFESSIONAL ENGINEER

DRAWING TITLE:

ELECTRICAL PLAN
SHEET 3 OF 3

ACCESSION #:104986x

DESIGNED: MLC/DPH

DRAWN: HAB CHECKED: DMB

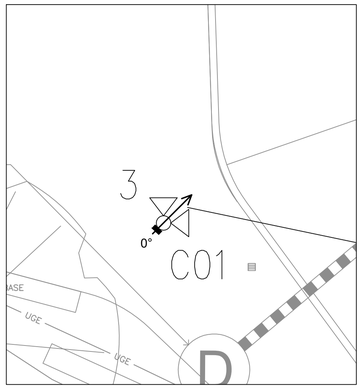
DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

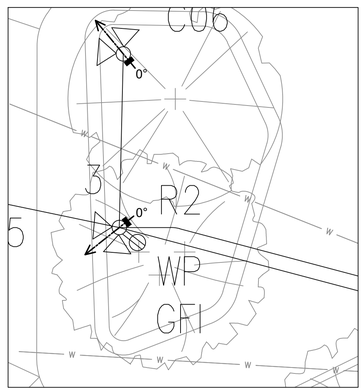
SUBMISSION: BID SET

DRAWING NO.

E-4



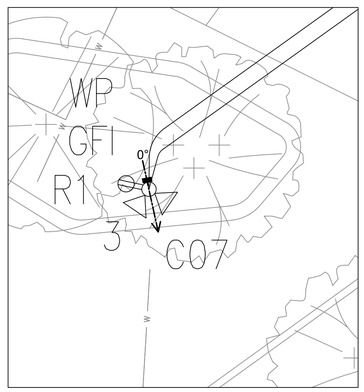
A DECORATIVE FLOOD LIGHT POLE C01
SCALE: 1" = 5'-0"



D DECORATIVE FLOOD LIGHT POLES C05 & C06
SCALE: 1" = 5'-0"

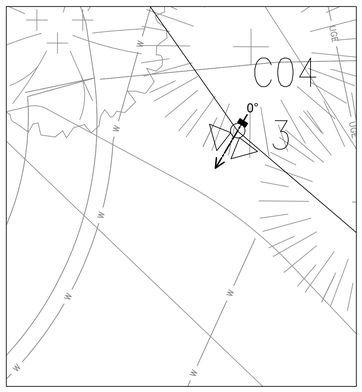


B DECORATIVE FLOOD LIGHT POLES C02 & C03
SCALE: 1" = 5'-0"

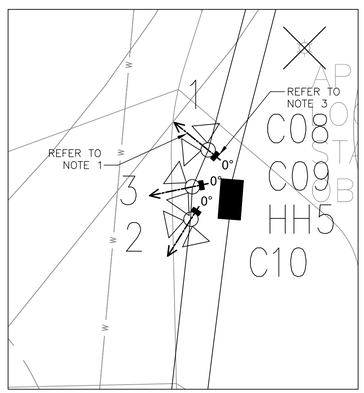


E DECORATIVE FLOOD LIGHT POLE C07
SCALE: 1" = 5'-0"

NOTE: POLE 3 TYPICAL PROJECTION OF SWEEP IS 24"

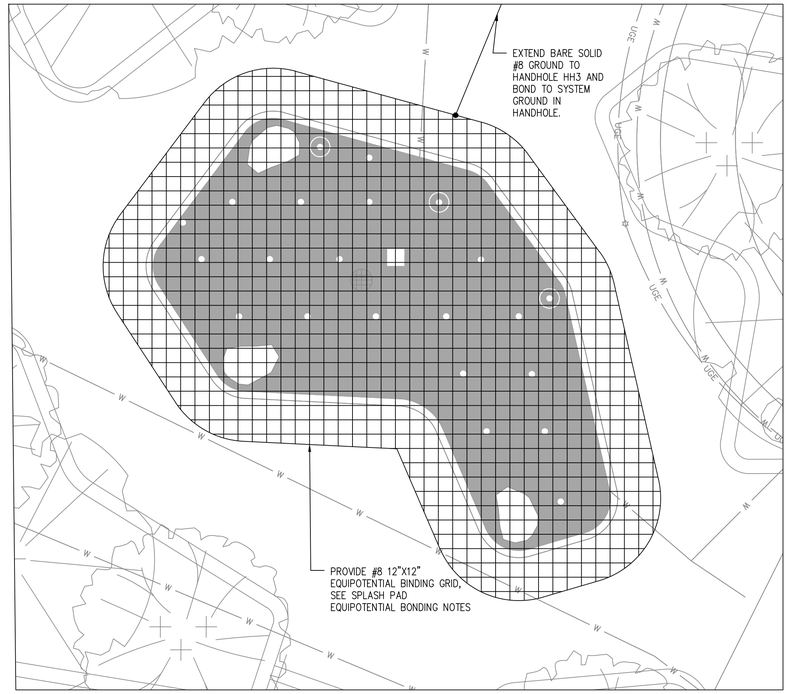


C DECORATIVE FLOOD LIGHT POLE C04
SCALE: 1" = 5'-0"



F DECORATIVE FLOOD LIGHT POLES C08, C09 & C10
SCALE: 1" = 5'-0"

NOTES:
1. DIRECTION OF BEND IN REED POLE.
2. DISTANCE FROM CENTER OF POLE TO END OF SWEEP IN POLE (RELATIVE LOCATION OF FIXTURES, REFER TO DRAWING E-6)
3. LOCATION OF HANDHOLE ON BACKSIDE OF POLE DENOTING ROTATION OF BASEPLATE AND DIRECTION OF CURVATURE IN POLE TYPICAL REPRESENTATION ALL POLES.



SPLASH PAD EQUIPOTENTIAL BONDING NOTES:

1. IN ACCORDANCE WITH NEC 680, THE PORTION OF THE, "SPLASH PAD" WET PLAY AREA SHALL BE BONDED WITH #8 AWG BARE SOLID COPPER CONDUCTOR GRID ARRANGED IN 12" X 12" UNIFORM PATTERN (4" TOLERANCE). PERIMETER OF EQUIPOTENTIAL BONDING GRID SHALL EXTEND 3-FEET BEYOND THE OUTSIDE EDGE OF INTENDED WET PLAY AREA. ALL AT-GRADE OR ABOVE-GRADE METALLIC OBJECTS LOCATED WITHIN THE PAD AND WITHIN 5' OF THE PERIMETER SURFACE OF INTENDED WET PLAY AREAS SHALL BE BONDED INCLUDING JET STREAMS, MAGIC MISTS, FOOT ACTIVATORS, DECK DRAINS, METAL PIPING, AND OTHER METAL OBJECTS OR FURNITURE WITH SOLID #8 AWG GROUND CONDUCTOR EXOTHERMICALLY WELDED TO THE METAL OBJECT (OR BONDED PER MANUFACTURER'S RECOMMENDATION).
2. REFER TO DETAIL 3, SPLASH PAD SURFACING DETAIL, ON SHEET LD-1 AND PLACE EQUIPOTENTIAL BONDING GRID ON THE TOP SURFACE OF THE GRAVEL BORROW TYPE 'B' LAYER (4" BELOW BITUMINOUS LAYER).

G SPLASH PAD EQUIPOTENTIAL BONDING GRID
SCALE: 1" = 5'-0"

N

SCALE: 1"=5'-0"

2.5 0 2.5 5 10

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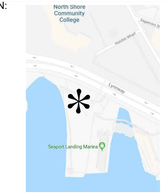
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WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
DANA BERGMAN
ELECTRICAL
No. 58627
REGISTERED PROFESSIONAL ENGINEER

DRAWING TITLE:

ELECTRICAL PARK LIGHTING ENLARGED PLANS

ACCESSION #:104987x

DESIGNED: MLC/DPH

DRAWN: HAB CHECKED: DMB

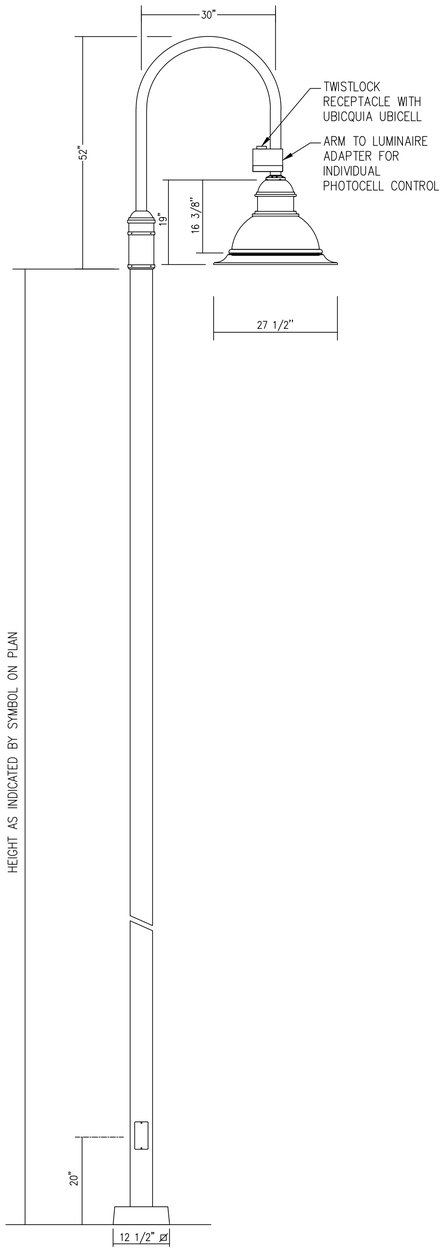
DATE: NOVEMBER 12, 2025

SCALE: 1" = 5'

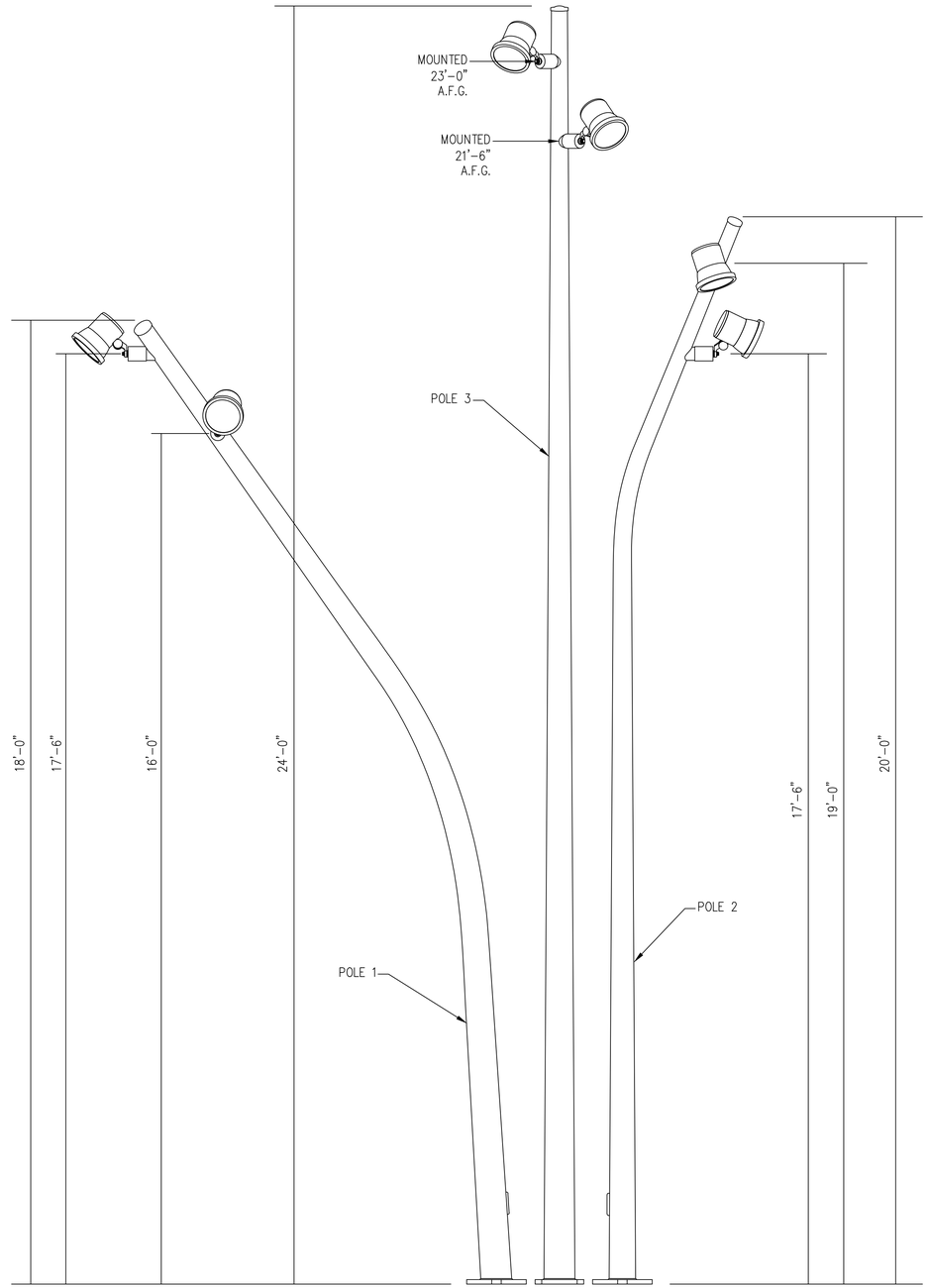
SUBMISSION: BID SET

DRAWING NO.

E-5



1 16' AND 20' LIGHT POLE DETAIL
SCALE: 3/4" = 1'-0"



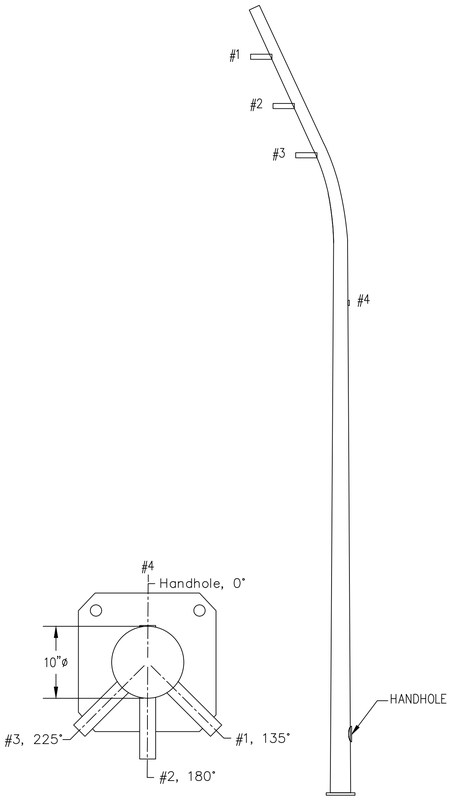
2 DECORATIVE FLOOD LIGHT POLE - MEDIUM
SCALE: 3/4" = 1'-0"

NOTE:
SEE ENLARGED PART PLAN DRAWING E-5 FOR POLE CONFIGURATIONS

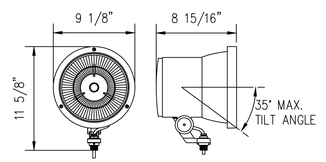
FIXTURE SCHEDULE: DECORATIVE POLES

POLE 1: REED-M-1-C-135DEG/225DEG-STD
POLE 2: REED-M-2-C-2-135DEG/225DEG-STD
POLE 3: REED-M-3-C-2-135DEG/225DEG-STD

NOTE: PLEASE REFER TO SPECIFICATIONS



4 POLE BASE PLATE DETAIL
SCALE: NTS



NOTES:
1. LUMINAIRE # 77 653 – SEE SPECIFICATIONS.

3 FLOOD LIGHT DETAIL
SCALE: 1-1/2" = 1'-0"

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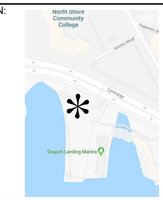
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COMMONWEALTH OF MASSACHUSETTS
DANA BERGMAN
ELECTRICAL
No. 59027
REGISTERED PROFESSIONAL ENGINEER

DRAWING TITLE:

ELECTRICAL LIGHT POLE DETAILS

ACCESSION #:104988x

DESIGNED: MLC/DPH

DRAWN: HAB CHECKED: DMB

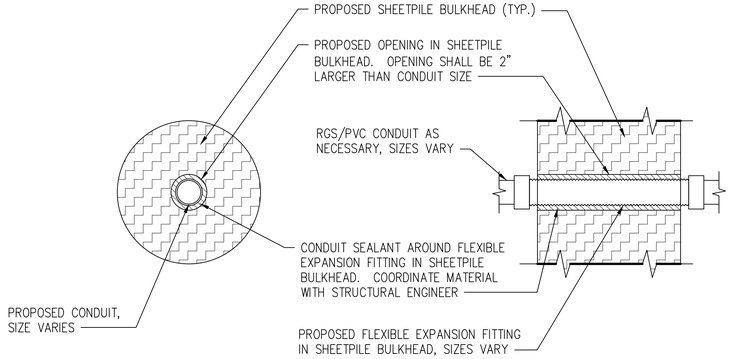
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

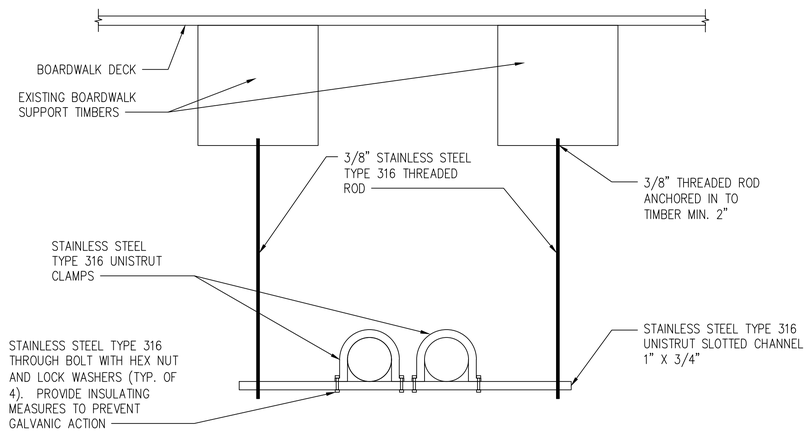
DRAWING NO.

E-6



4 CONDUIT PENETRATION UNDER BOARDWALK DETAIL

SCALE: NOT TO SCALE

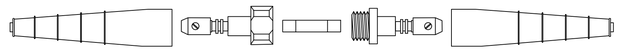


NOTES:

1. PROVIDE ASSEMBLY AND UNISTRUT CLAMPS IN QUANTITIES AND SIZES TO MATCH EXISTING CONDUITS. ALIGN AND EXTEND TO CONDUIT PENETRATIONS IN NEW SHEETPILE. REFER TO DETAIL 4 THIS DRAWING
2. ALL STRAPS AND MOUNTING HARDWARE SHALL BE STAINLESS STEEL

5 TRAPEZE HANGAR DETAIL BENEATH BOARDWALK

SCALE: NOT TO SCALE

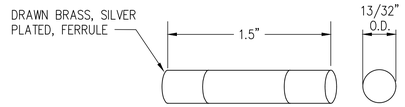


RATING: 600 VOLTS – 20 AMPS.	
FUSE SIZE: 1 1/2" x 13/32" O.D. – FERRULE 3/8"	
CONNECTOR SIZE: 8 1/2" x 7/8" O.D.	
CONNECTOR TYPE:	FUSE – QUICK DISCONNECT SET SCREW TYPE CONNECTION
CONNECTOR MATERIAL:	MOLDED PLASTIC BODY WITH RUBBER INSULATING BOOTS.
CONDUCTOR SIZE:	LINE AND LOAD #2 AWG THROUGH #12 AWG
REQUIRED FEATURES:	WATERTIGHT NO TAPING OR SEALANT REQUIRED
–FUSE HELD IN LOAD SIDE WHEN CONNECTOR IS DISCONNECTED.	
–PROVIDE APPROVED FUSE HOLDER WITH "DUMMY" ROD BLANK FUSE FOR NEUTRALS	

FUSE HELD IN LOAD SIDE WHEN CONNECTOR IS DISCONNECTED.

1 STRAIGHT THRU CONNECTOR

SCALE: NOT TO SCALE E-7



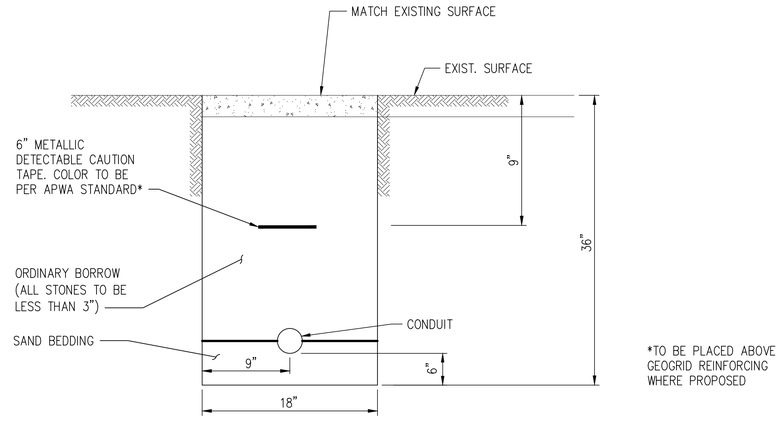
SIZE: MIDGET.
TYPE: CURRENT LIMITING FUSE.
VOLTAGE RATING: 120/208 VOLTS.
USE: PROTECTION OF AREA LIGHTING EQUIPMENT.

NOTES:

1. INSTALL IN HANDHOLE OF FIXTURE POLE BASE.
2. PROVIDE FUSES AS RECOMMENDED BY MANUFACTURER.

2 FUSES

SCALE: NOT TO SCALE E-7



*TO BE PLACED ABOVE GEOGRID REINFORCING WHERE PROPOSED

3 TYPICAL TRENCH DETAIL FOR CONDUIT

SCALE: NOT TO SCALE E-7

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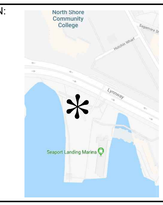
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COMMONWEALTH OF MASSACHUSETTS
DANA BERGMAN
ELECTRICAL
No. 58027
REGISTERED
PROFESSIONAL ENGINEER

DRAWING TITLE:

ELECTRICAL DETAILS SHEET 1 OF 2

ACCESSION #:104989x

DESIGNED: MLC/DPH

DRAWN: HAB CHECKED: DMB

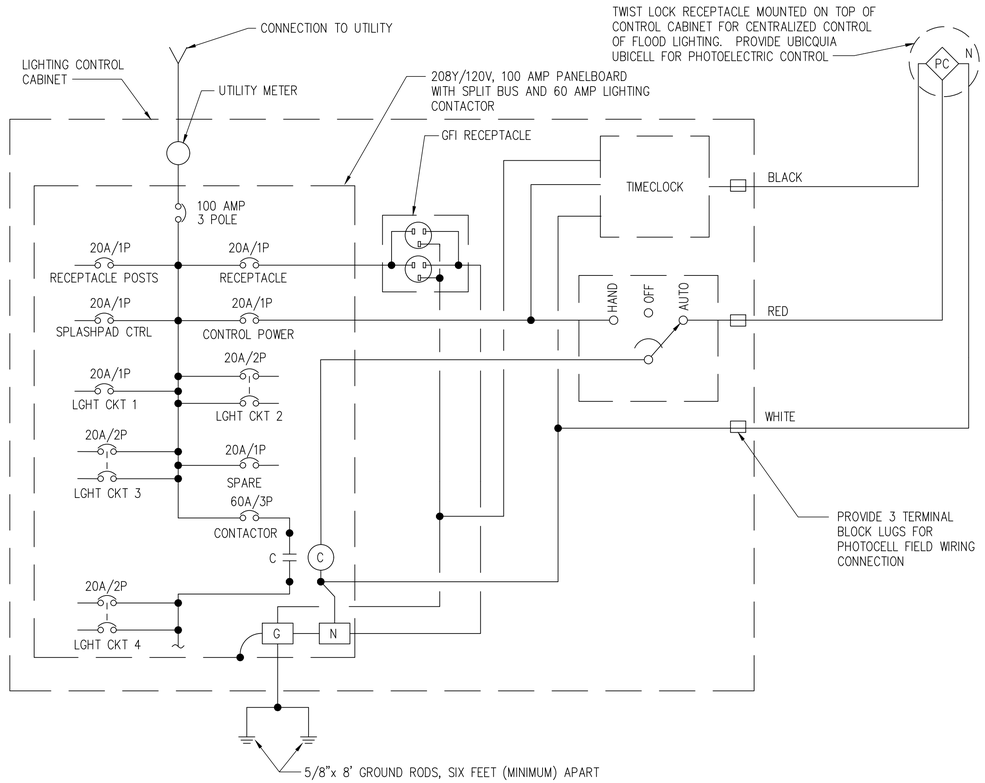
DATE: NOVEMBER 12, 2025

SCALE: NOT TO SCALE

SUBMISSION: BID SET

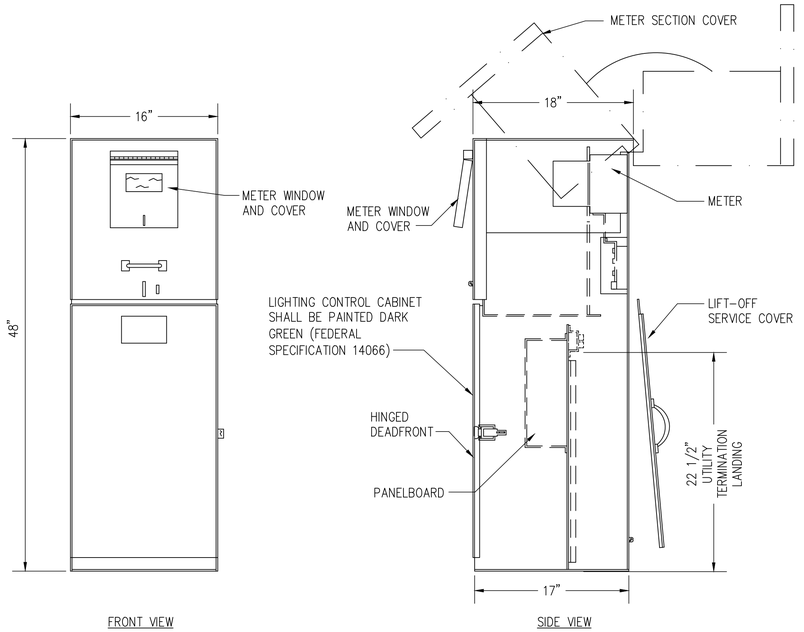
DRAWING NO.

E-7



4 LIGHTING CONTROL CABINET ONE LINE DIAGRAM

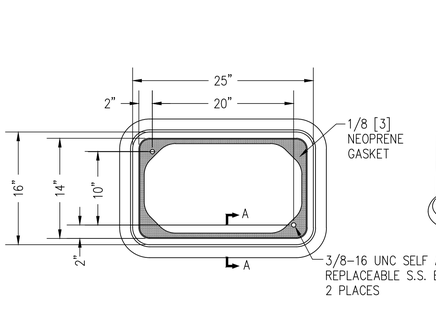
SCALE: NOT TO SCALE E-8

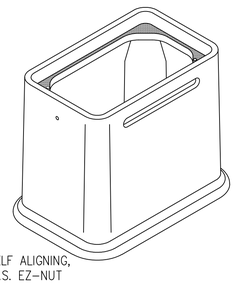


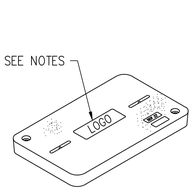
NOTE:
PROVIDE ALL ELECTRICAL EQUIPMENT IN THE LIGHTING LOAD CENTER AS INDICATED ON THE ONE LINE DIAGRAM AND AS SPECIFIED IN SPECIAL PROVISION SECTION 600 INCIDENTAL CONSTRUCTION.

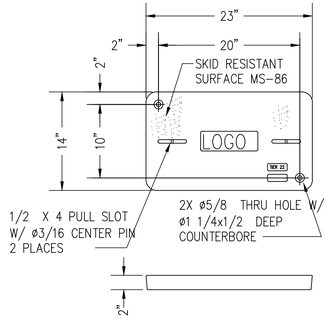
5 LIGHTING LOAD CENTER DETAIL

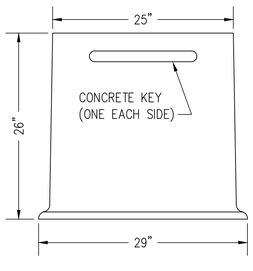
SCALE: NOT TO SCALE E-8

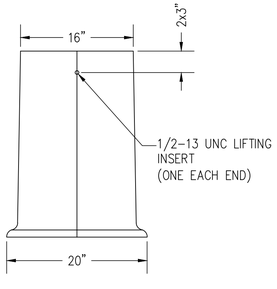


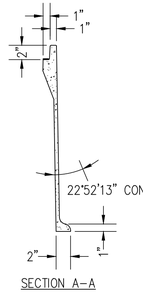












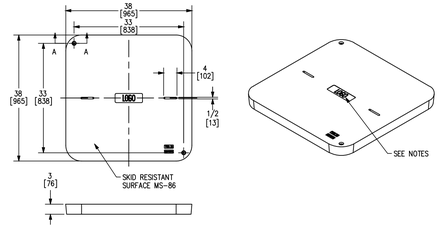
SECTION A-A

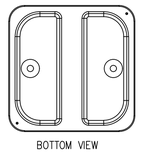
NOTES:

1. HANDHOLE AND COVER SHALL BE CONSTRUCTED OF POLYMER CONCRETE, REINFORCED WITH FIBERGLASS. HANDHOLE SHALL BE OPEN BOTTOM AND UL LISTED. HANDHOLE, TYPE 1 SHALL BE QUAZITE BOX PD1324BG26 WITH COVER PG132GHH29 OR APPROVED EQUAL FOR HH3, HH4, HH5 AND HH6. HANDHOLE, TYPE 2 SHALL BE QUAZITE PG3636BA36 AND PG3636HH0029 COVER OR APPROVED EQUAL FOR HH1 AND HH2. ALL HANDHOLES SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER.
2. COVER TO BE "GREEN" COLOR AND LOGO TO BE SPECIFIED: 'DCR LIGHTING'. FURNISHED W/ (2) 3/8-16 UNC X 3 LONG HEX HEAD BOLTS AND (2) 3/8 FLAT WASHERS. THIS COVER IS RATED FOR A STATIC DESIGN LOAD OF 22,500 LBS. OVER A 10 X 20 AREA AND MUST PASS A MIN. STATIC TEST LOAD OF 33,750 LBS..
3. PROVIDE 6" OF GRAVEL BORROW UNDER HANDHOLE.
4. INSTALL GROUND ROD IN HANDHOLE, SEE GENERAL NOTE 4.

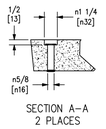
6 HANDHOLE, TYPE 1 DETAIL

SCALE: NOT TO SCALE E-8

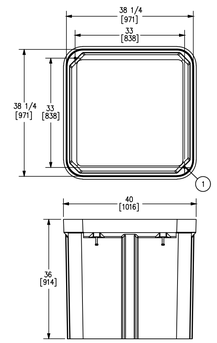


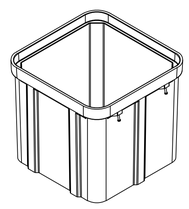


BOTTOM VIEW



SECTION A-A
2 PLACES





7 HANDHOLE, TYPE 2 DETAIL

SCALE: NOT TO SCALE E-8

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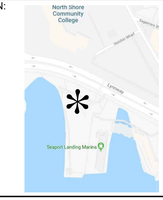
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STAMPED AND SIGNED:

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DANA BERGMAN
ELECTRICAL
No. 58627
REGISTERED PROFESSIONAL ENGINEER

DRAWING TITLE:

ELECTRICAL DETAILS SHEET 2 OF 2

ACCESSION #:104990x

DESIGNED: MLC/DPH

DRAWN: HAB CHECKED: DMB

DATE: NOVEMBER 12, 2025

SCALE: NOT TO SCALE

SUBMISSION: BID SET

DRAWING NO.

E-8



EXISTING 1" RGS IN 4" OPENING SHALL BE CUT AT OPENING AND REMOVED ALONG CONCRETE SEAWALL. REMOVE CONDUIT BACK TO LOCATION OF NEW SHEETPILE BULKHEAD. PROVIDE 1" OPENING IN NEW SHEETPILE BULKHEAD AT SAME ELEVATION AS EXISTING. FURNISH AND INSTALL NEW 1" RGS CONDUIT FROM NEW SHEETPILE BULKHEAD TO EXISTING TO REMAIN PORTION OF EXISTING RACEWAY. REFER TO DETAIL I DRAWING E-10.

UNKNOWN/OTHER EMPTY CONDUIT OPENING IN EXISTING SEAWALL (TYP. OF 20). CUT AND REMOVE CONDUIT IN OPENINGS AT PROPOSED SHEETPILE BULKHEAD LOCATION. PROVIDE 4" OR 6" OPENING IN SHEETPILE BULKHEAD TO RE-CREATE OPENING IN NEW BULKHEAD

A SEAWALL BASELINE 0 + 75
SCALE: N.T.S.



D SEAWALL BASELINE 1 + 00
SCALE: N.T.S.



B SEAWALL BASELINE 0 + 75 TO 90
SCALE: N.T.S.



E SEAWALL BASELINE 1 + 50
SCALE: N.T.S.



C SEAWALL BASELINE 0 + 90
SCALE: N.T.S.

DRAWING NOTES:

1. DRAWING IS INTENDED TO BE PLOTTED IN COLOR.
2. REFER TO DRAWING UT-7 FOR ENLARGED BOARDWALK UTILITY PLAN AND SEAWALL BASELINE.

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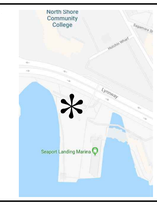
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
DANA BERGMAN
ELECTRICAL
No. 59027
REGISTERED PROFESSIONAL ENGINEER

DRAWING TITLE:

SOUTH BOARDWALK UTILITY EXISTING CONDITION PHOTOS - STA. 0+75 TO 1+50

ACCESSION #:104991x

DESIGNED: HAB/DPH

DRAWN: MF CHECKED: DMB

DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

E-9



F SEAWALL BASELINE 1 + 50 TO 65
SCALE: N.T.S.



H SEAWALL BASELINE 1 + 65 TO 2 + 12
SCALE: N.T.S.

EXISTING 1" RGS TO BE REMOVED



G SEAWALL BASELINE 1 + 65
SCALE: N.T.S.

EXISTING 1" RGS TO BE CUT WHERE CONDUIT JUMPS FROM CONCRETE SEAWALL TO BELOW BOARDWALK. FURNISH AND INSTALL NEW 1" RGS FROM NEW OPENING IN SHEETPILE BULKHEAD TO THIS LOCATION. REINSTATE EXISTING CABLES/CONDUCTORS AS NECCESSARY. REFER TO DETAIL B ON DRAWING E-9



I SEAWALL BASELINE 2 + 12
SCALE: N.T.S.

DRAWING NOTES:

1. DRAWING IS INTENDED TO BE PLOTTED IN COLOR.
2. REFER TO DRAWING UT-7 FOR ENLARGED BOARDWALK UTILITY PLAN AND SEAWALL BASELINE.

BROWN, RICHARDSON + ROWE

LANDSCAPE ARCHITECTS AND PLANNERS
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BOSTON, MA 02110

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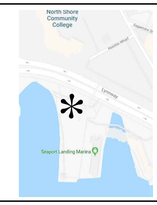
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DANA BERGMAN
ELECTRICAL
No. 58627
REGISTERED PROFESSIONAL ENGINEER

DRAWING TITLE:

SOUTH BOARDWALK UTILITY EXISTING CONDITION PHOTOS - STA. 1+50 TO 2+12

ACCESSION #:104992x

DESIGNED: HAB/DPH

DRAWN: MF CHECKED: DMB

DATE: NOVEMBER 12, 2025

SCALE: 1" = 20'

SUBMISSION: BID SET

DRAWING NO.

E-10

NOTES:

1. REFER TO INDIVIDUAL UTILITY SHEETS UT-2 TO UT-6 FOR ADDITIONAL INFORMATION REGARDING UTILITY RECONNECTIONS AT THE SEAWALL.
2. LYNN SEAPORT LANDING MARINA IS OWNED AND MANAGED BY THE CITY OF LYNN'S DEPARTMENT OF COMMUNITY DEVELOPMENT.

   CONTACT: LYNN SEAPORT LANDING ON THE WATERFRONT AT 154 LYNNWAY, SUITE 604, LYNN MA 01902
   PHONE: 781-592-5821 FAX: 781-592-2750
   EMAIL: SEAPORTMARINA@VERIZON.NET
   CUSTODIAN: DAVID MCQUARRIE

ACCESS UTILITY ROOM AND MARINA OFFICE TO COORDINATE SHUTDOWNS

MOVE AND REINSTATE CCTV (CTE). SEE DRAWING UT-6

REMOVE AND REINSTATE 3" PVC WATER SERVICE (CTE). SEE DRAWING UT-4

PROP. SHEET PILE SEAWALL

PORTIONS OF EXISTING CONCRETE SEAWALL TO BE REMOVED, REFER TO STRUCTURAL DRAWINGS

EXISTING SEAWALL BASELINE

REMOVE AND REINSTATE 24" DRAIN (CTE). SEE DRAWING UT-2

MOVE AND REINSTATE 4" RUBBER FORCEMAIN SEWER SERVICE (CTE). SEE DRAWING UT-3

REMOVE AND REINSTATE 6" DI WATER (CTE). SEE DRAWING UT-4

REMOVE AND REINSTATE 2" AIR SERVICE (CTE). SEE DRAWING UT-5

REMOVE AND REINSTATE CABLE TV (CTE). SEE DRAWING UT-6

REMOVE AND REINSTATE TELEPHONE (CTE). SEE DRAWING UT-6

REMOVE AND REINSTATE 2" PVC SECONDARY WATER SERVICE (CTE). MOVE AND REINSTATE 1" RUBBER WINTER WATER SERVICE (CTE). SEE DRAWING UT-4

UTILITY PLAN AT SOUTH BOARDWALK

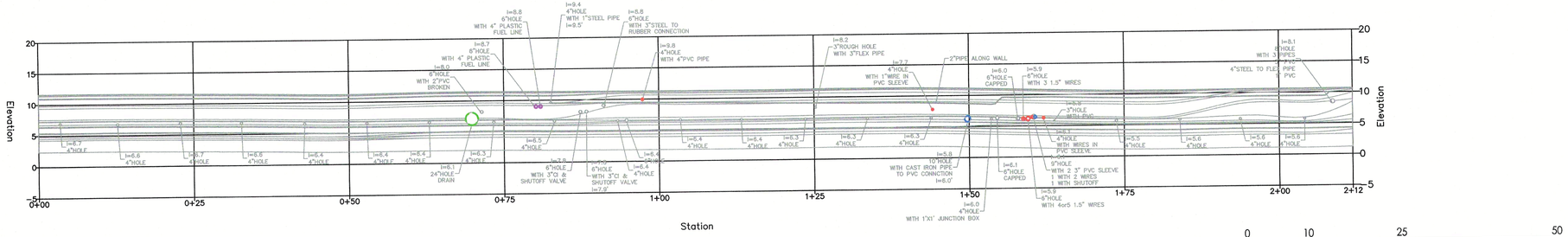
GENERAL NOTE:

1. LOCALLY EXCAVATE OR LOCATE AT EACH UTILITY PENETRATION THROUGH THE PROPOSED SHEET PILE WALL TO PROVIDE SUFFICIENT AREA TO COMPLETE THE REMOVE/ MOVE AND REINSTATE SCOPE OF WORK.

LEGEND

- DRAIN
- SEWER
- ELECTRIC
- GAS/FUEL
- AIR
- WATER
- COMMUNICATION
- OTHER/UNKNOWN

(STN) STANTEC ESTIMATION BASED ON FIELD VISIT



EXISTING SEAWALL ELEVATION

SCALE: 1" = 10'

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KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
VICTOR A. OLSON
CIVIL
No. 35675
REGISTERED PROFESSIONAL ENGINEER
10/31/2025

DRAWING TITLE:

SOUTH BOARDWALK UTILITIES GENERAL PLAN SHEET 1 OF 7

ACCESSION #:104993x

DESIGNED: VAO

DRAWN: MF CHECKED: JJH

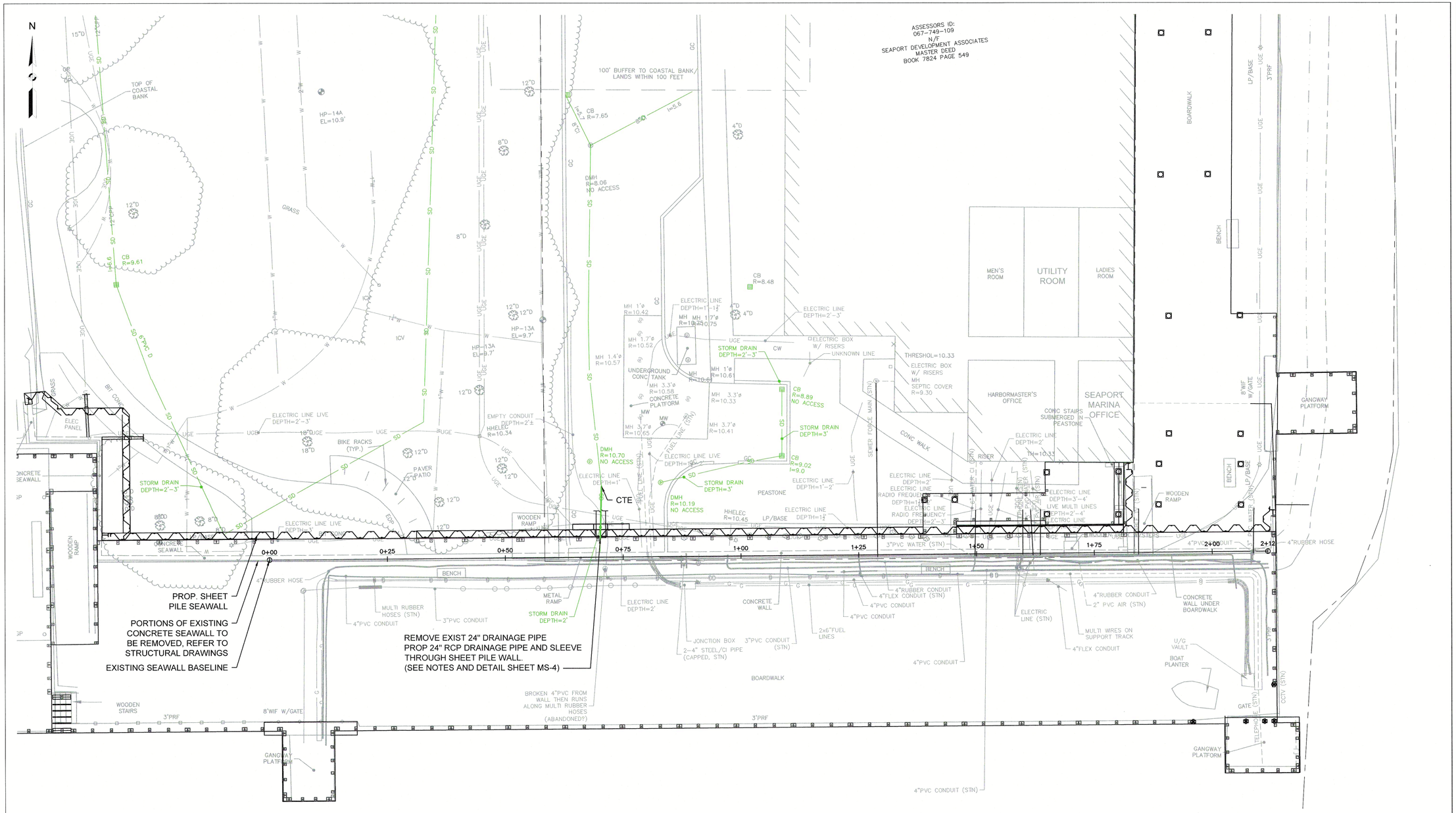
DATE: NOVEMBER 12, 2025

SCALE: 1" = 10'

SUBMISSION: BID SET

DRAWING NO.

UT-1



DRAINAGE PLAN AT SOUTH BOARDWALK

LEGEND

- DRAIN
- SEWER
- ELECTRIC
- GAS/FUEL
- AIR
- WATER
- COMMUNICATION
- OTHER/UNKNOWN

(STN) STANTEC ESTIMATION BASED ON FIELD VISIT

NOTES:

1. EXCAVATE TO EXPOSE EXIST 24" DRAIN PIPE.
2. LOCATE UPSTREAM PIPE JOINT BEYOND IMPACT OF PROPOSED SHEET PILE BULKHEAD.
3. REMOVE SECTION(S) OF DRAIN AND PROVIDE STORMWATER DIVERSION/ BYPASS DURING CONSTRUCTION.
4. PROVIDE WALL SLEEVE THROUGH STEEL BULKHEAD.
5. INSTALL NEW 24" RCP DRAIN THROUGH SEAWALL.
6. PROVIDE SCOUR PROTECTION.
7. REMOVE DIVERSION/ BYPASS.

GENERAL DRAWING NOTES:

1. DRAWING IS INTENDED TO BE PLOTTED IN COLOR.
2. REFER TO FUEL SYSTEM DRAWINGS (FS-1 THROUGH FS-4) FOR APPROXIMATE LOCATION OF FUEL SYSTEM RELATED COMPONENTS, INCLUDING BUT NOT LIMITED TO TRANSITION SUMPS, UNDERGROUND PIPING AND UNDERGROUND CONDUIT.

0 10 25 50

SCALE: 1" = 10'

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for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
VICTOR A OLSON
CIVIL
No. 35075
REGISTERED PROFESSIONAL ENGINEER
10/31/2025

DRAWING TITLE:

SOUTH BOARDWALK UTILITIES DRAINAGE SHEET 2 OF 7

ACCESSION #:104994x

DESIGNED: VAO

DRAWN: MF CHECKED: JJH

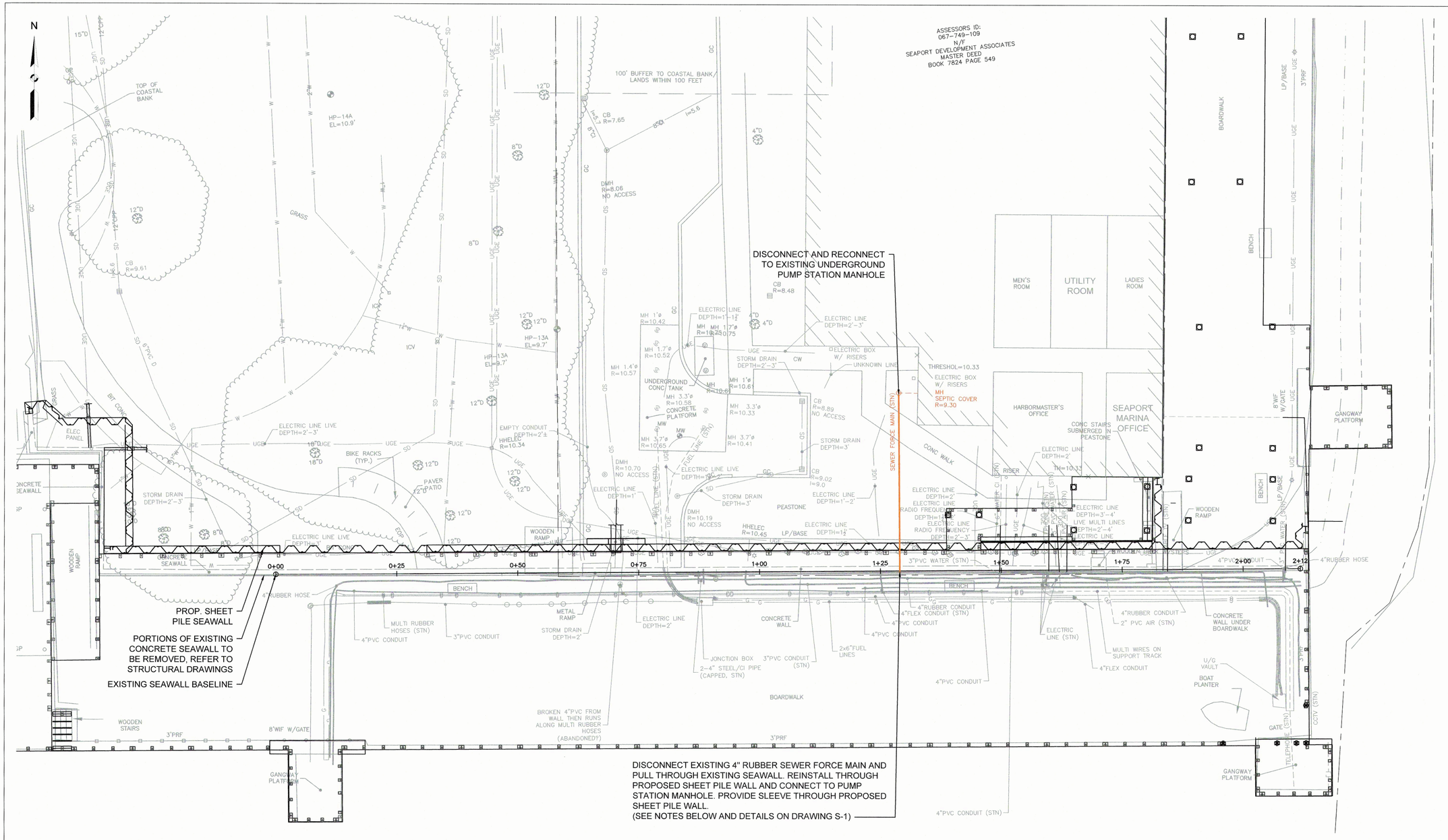
DATE: NOVEMBER 12, 2025

SCALE: 1" = 10'

SUBMISSION: BID SET

DRAWING NO.

UT-2



SEWER PLAN AT SOUTH BOARDWALK

LEGEND

- DRAIN
- SEWER
- ELECTRIC
- GAS/FUEL
- AIR
- WATER
- COMMUNICATION
- OTHER/UNKNOWN
- (STN) STANTEC ESTIMATION BASED ON FIELD VISIT

NOTES:

1. EXCAVATE TO EXPOSE SEWER FORCE MAIN.
2. VERIFY PIPE MATERIALS AND DIMENSIONS.
3. COORDINATE WITH MARINA TO SHUT DOWN DOCK MOUNTED SEWER PUMPOUT (KECO PUMP-A-HEAD).
4. EXCAVATE THE EXISTING SEWER FORCE MAIN BETWEEN EXISTING PUMP CHAMBER AND SEAWALL.
5. DISCONNECT FORCE MAIN FROM PUMP CHAMBER AND PULL BACK BEYOND WORK AREA.
6. INSTALL WALL SLEEVE THROUGH STEEL BULKHEAD.
7. PULL FORCE MAIN THROUGH SLEEVE AND RECONNECT TO PUMP CHAMBER.
8. BACKFILL WITH TRENCH UTILITY MARKER.
9. TEST AND STARTUP PUMP SYSTEM.
10. ANY DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING FORCE MAIN HOSE SHALL BE REPLACED IN KIND AT NO ADDITIONAL COST TO THE PROJECT.

GENERAL DRAWING NOTES:

1. DRAWING IS INTENDED TO BE PLOTTED IN COLOR.
2. REFER TO FUEL SYSTEM DRAWINGS (FS-1 THROUGH FS-4) FOR APPROXIMATE LOCATION OF FUEL SYSTEM RELATED COMPONENTS, INCLUDING BUT NOT LIMITED TO TRANSITION SUMPS, UNDERGROUND PIPING AND UNDERGROUND CONDUIT.

0 10 25 50
SCALE: 1" = 10'

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KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
VICTOR A OLSON
CIVIL
No. 25076
REGISTERED PROFESSIONAL ENGINEER
10/3/2025

DRAWING TITLE:

SOUTH BOARDWALK
UTILITIES
SEWER
SHEET 3 OF 7

ACCESSION #:104995x

DESIGNED: VAO

DRAWN: MF CHECKED: JJH

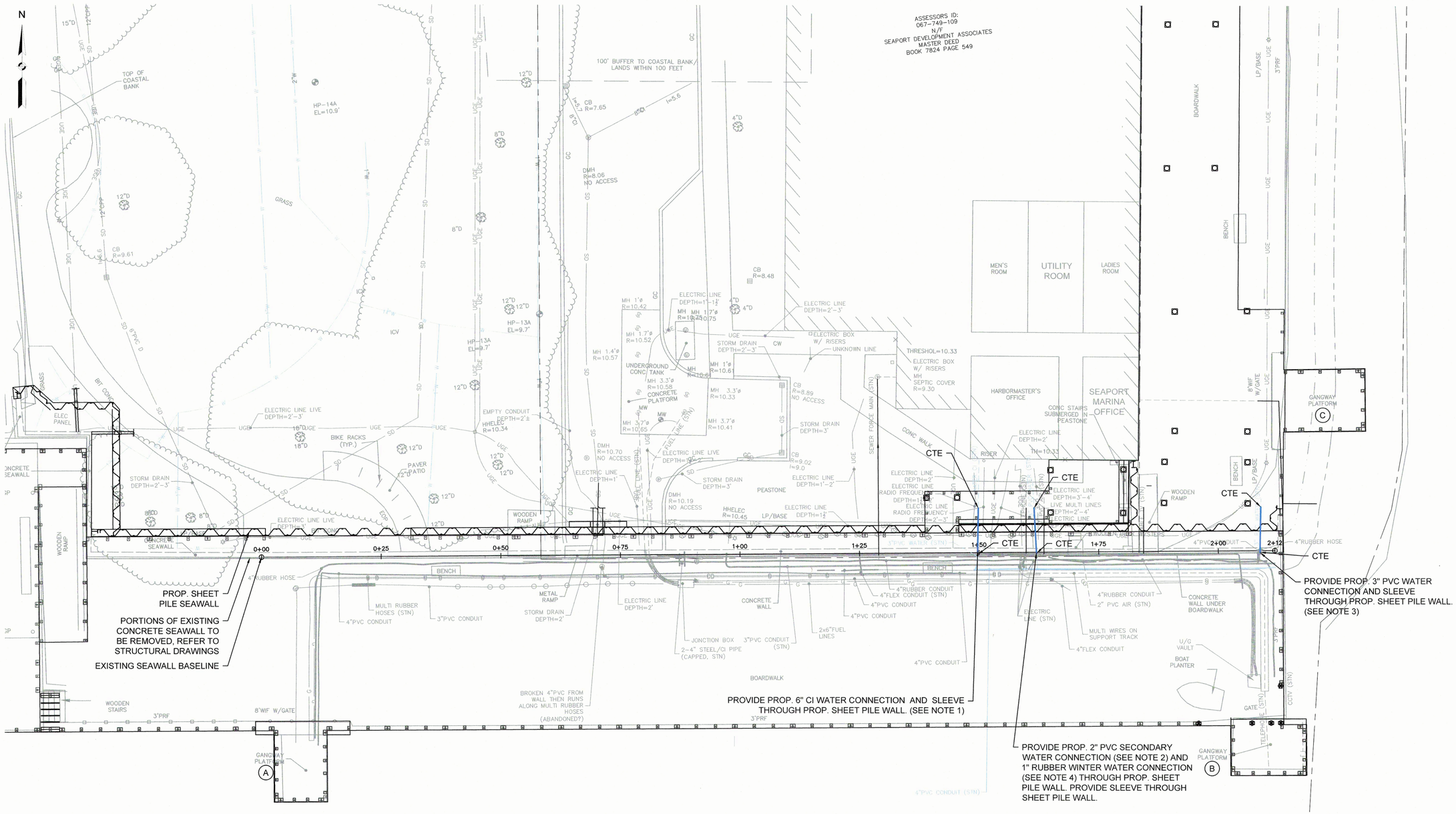
DATE: NOVEMBER 12, 2025

SCALE: 1" = 10'

SUBMISSION: BID SET

DRAWING NO.

UT-3



WATER PLAN AT SOUTH BOARDWALK

LEGEND

- DRAIN
- SEWER
- ELECTRIC
- GAS/FUEL
- AIR
- WATER
- COMMUNICATION
- OTHER/UNKNOWN
- (STN) STANTEC ESTIMATION BASED ON FIELD VISIT

NOTES:

1. 6" PRIMARY WATER
   - 1.1. EXCAVATE TO EXPOSE WATER LINE.
   - 1.2. VERIFY PIPE MATERIALS AND DIMENSIONS.
   - 1.3. COORDINATE WITH MARINA TO SHUT DOWN WATER LINES.
   - 1.4. CUT EXISTING 6" CI WATER LINE UPSTREAM OF PROPOSED STEEL BULKHEAD.
   - 1.5. PROVIDE WALL SLEEVE THROUGH STEEL BULKHEAD.
   - 1.6. INSTALL SECTION OF ZINC COATED 6" DUCTILE IRON (DI) WATER PIPE (PLAN END TO FLANGE END).
   - 1.7. CONNECT TO EXISTING PIPE WITH AN INSULATED RESTRAINED COUPLING.
   - 1.8. INSTALL 6" x 3" REDUCING FLANGE AND ZINC ANODE TO EACH SIDE OF FLANGE.
   - 1.9. INSTALL 3" BRONZE MARINE BALL VALVE AND 3" SCHEDULE 80 ASTM D 46 PVC WATER PIPE.
   - 1.10. EXTEND 3" PVC WATER FROM NEW BULKHEAD TO EXISTING 3" PVC UNDER BOARDWALK.
   - 1.11. WRAP END OF DUCTILE IRON PIPE FLANGES AND BOLTS WITH A SELF FIRMING WAX TAPE ANTI-CORROSION WRAP FOR ABOVE-GROUND AND BELOW-GROUND USE.
2. 2" SECONDARY WATER
   - 2.1. EXCAVATE TO EXPOSE WATER LINE.
   - 2.2. VERIFY PIPE MATERIALS AND DIMENSIONS.
   - 2.3. COORDINATE WITH MARINA TO SHUT DOWN WATER LINES.
   - 2.4. CUT EXISTING 2" PVC WATER UPSTREAM OF PROPOSED BULKHEAD.
   - 2.5. PROVIDE WALL SLEEVE THROUGH STEEL BULKHEAD.
   - 2.6. INSTALL SECTION OF 2" PVC WATER.
   - 2.7. INSTALL 2" PVC BALL VALVE AND STUB FOR SECONDARY CONNECTION WATER SIDE OF PROPOSED SHEET PILE WALL.
3. 3" FEED TO GANGWAY C
   - 3.1. EXCAVATE TO EXPOSE WATER LINE.
   - 3.2. VERIFY PIPE MATERIALS AND DIMENSIONS.
   - 3.3. COORDINATE WITH MARINA TO SHUT DOWN WATER LINES.
   - 3.4. CUT EXISTING 3" PVC WATER UPSTREAM OF PROPOSED BULKHEAD.
   - 3.5. PROVIDE WALL SLEEVE THROUGH STEEL BULKHEAD.
   - 3.6. INSTALL SECTION OF 3" PVC WATER.
   - 3.7. EXTEND 3" PVC FROM NEW BULKHEAD TO EXISTING 3" PVC UNDER BOARDWALK.
4. 1" RUBBER HOSE WINTER WATER
   - 4.1. DISCONNECT HOSE AND PULL OUT OF CONDUIT WITH PULL WIRE FOR REINSTALLATION.
   - 4.2. REINSTATE WINTER HOSE THROUGH CONDUIT.
   - 4.3. PROVIDE WALL SLEEVE FOR NEW CONDUIT.
   - 4.4. RECONNECT HOSE TO HDPE WINTER WATER LINE UNDER EXISTING BOARDWALK.

GENERAL DRAWING NOTES:

1. DRAWING IS INTENDED TO BE PLOTTED IN COLOR.
2. REFER TO FUEL SYSTEM DRAWINGS (FS-1 THROUGH FS-4) FOR APPROXIMATE LOCATION OF FUEL SYSTEM RELATED COMPONENTS, INCLUDING BUT NOT LIMITED TO TRANSITION SUMPS, UNDERGROUND PIPING AND UNDERGROUND CONDUIT.

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for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
VICTOR A OLSON
CIVIL
No. 35876
REGISTERED PROFESSIONAL ENGINEER
10/30/2025

DRAWING TITLE:

SOUTH BOARDWALK UTILITIES WATER SHEET 4 OF 7

ACCESSION #:104996x

DESIGNED: VAO

DRAWN: MF CHECKED: JJH

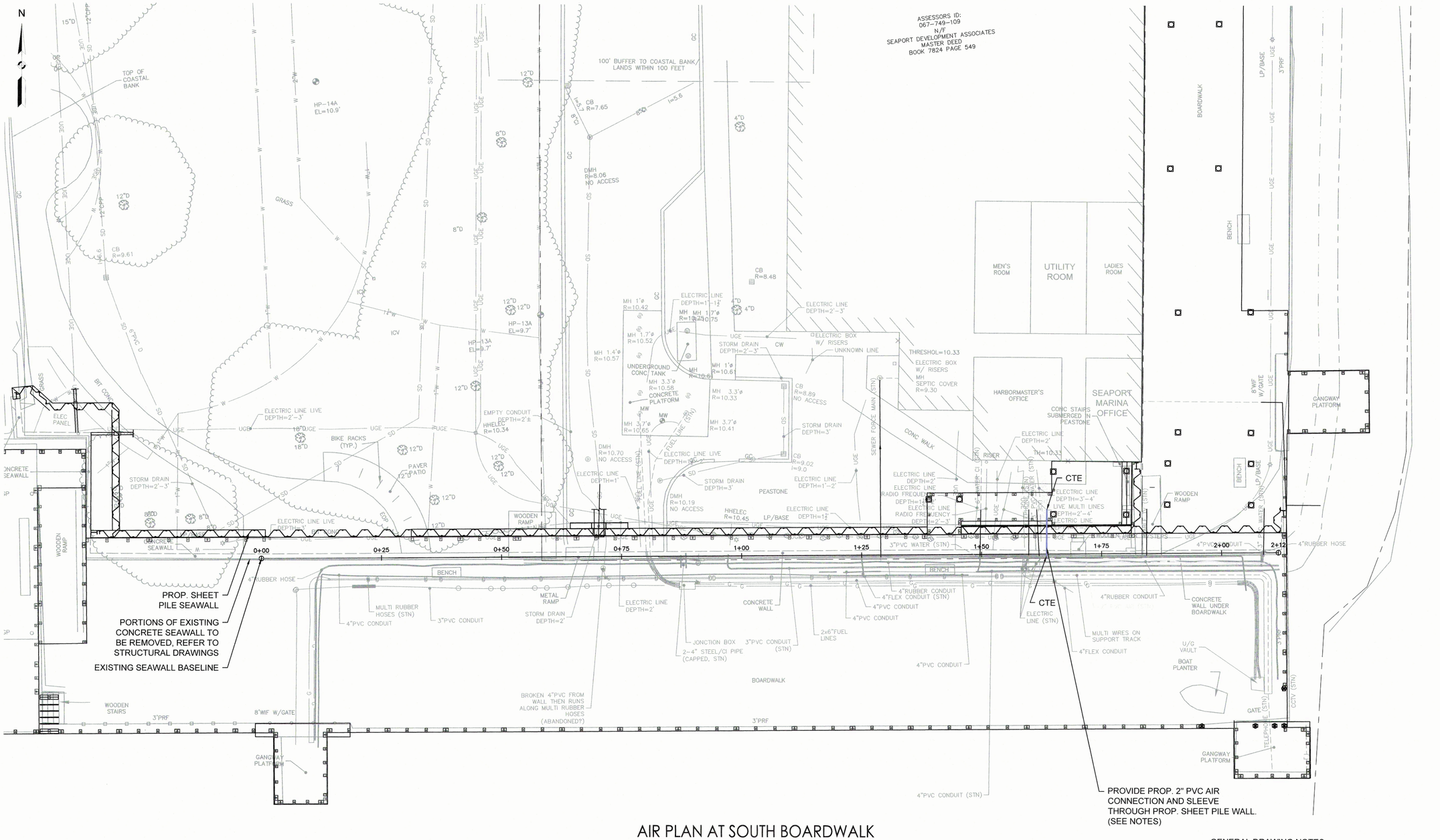
DATE: NOVEMBER 12, 2025

SCALE: 1" = 10'

SUBMISSION: BID SET

DRAWING NO.

UT-4



AIR PLAN AT SOUTH BOARDWALK

LEGEND

- DRAIN
- SEWER
- ELECTRIC
- GAS/FUEL
- AIR
- WATER
- COMMUNICATION
- OTHER/UNKNOWN
- (STN) STANTEC ESTIMATION BASED ON FIELD VISIT

NOTES:

1. EXCAVATE TO EXPOSE AIR LINE.
2. VERIFY PIPE SIZE AND MATERIALS.
3. COORDINATE WITH MARINA FOR SHUT DOWN (AIR LINE IS CURRENTLY SHUT DOWN).
4. CUT 2" PVC AIR LINE (FOR MARINA BUBBLER SYSTEM) UPSTREAM OF PROPOSED STEEL BULKHEAD.
5. CUT EXPOSED END OF EXISTING 2" PVC AIR LINE WITH FITTING FOR AIR TUBING CONNECTION TO BE SALVAGED AND REINSTATED.
6. PROVIDE WALL SLEEVE THROUGH STEEL BULKHEAD.
7. INSTALL NEW SECTION OF 2" SCHEDULE 80 PVC AIR LINE AND CONNECTION COUPLING ON EACH END.
8. CONNECT SALVAGED AIR TUBING CONNECTION TO END OF NEW PIPE UNDER BOARDWALK.

GENERAL DRAWING NOTES:

1. DRAWING IS INTENDED TO BE PLOTTED IN COLOR.
2. REFER TO FUEL SYSTEM DRAWINGS (FS-1 THROUGH FS-4) FOR APPROXIMATE LOCATION OF FUEL SYSTEM RELATED COMPONENTS, INCLUDING BUT NOT LIMITED TO TRANSITION SUMPS, UNDERGROUND PIPING AND UNDERGROUND CONDUIT.

0 10 25 50

SCALE: 1" = 10'

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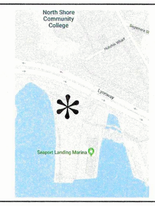
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ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

SOUTH BOARDWALK UTILITIES
AIR
SHEET 5 OF 7

ACCESSION #:104997x

DESIGNED: VAO

DRAWN: MF CHECKED: JJH

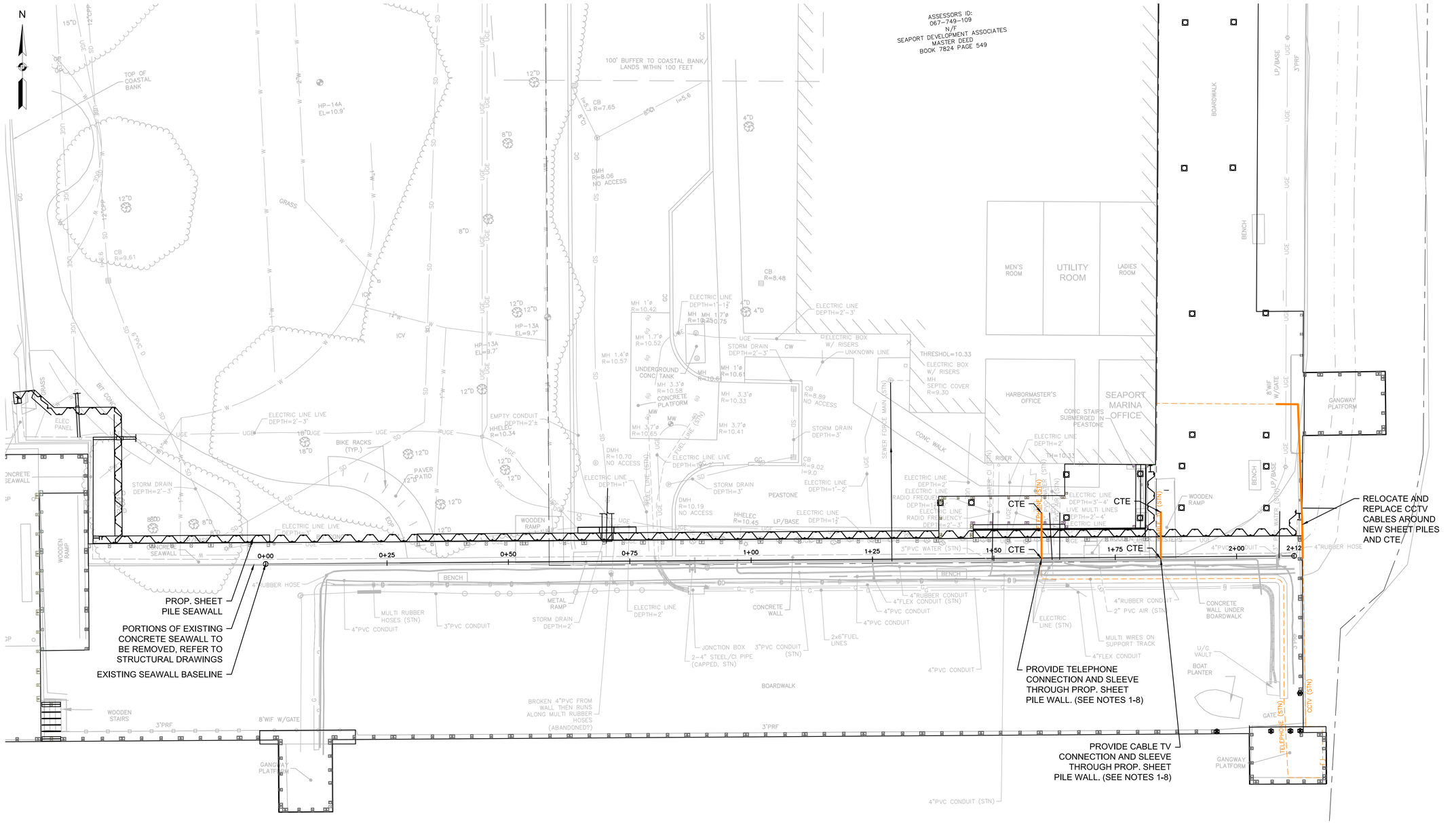
DATE: NOVEMBER 12, 2025

SCALE: 1" = 10'

SUBMISSION: BID SET

DRAWING NO.

UT-5



TELECOMMUNICATIONS PLAN AT SOUTH BOARDWALK

LEGEND

- DRAIN
- SEWER
- ELECTRIC
- GAS/FUEL
- AIR
- WATER
- COMMUNICATION
- OTHER/UNKNOWN

(STN) STANTEC ESTIMATION BASED ON FIELD VISIT

NOTES:

1. EXCAVATE TO EXPOSE TELECOMMUNICATION LINES.
2. VERIFY MATERIALS AND DIMENSIONS.
3. COORDINATE WITH MARINA TO SHUT DOWN TELECOMMUNICATION LINES.
4. CUT EXISTING CONTAINMENT AT LOCATION OF NEW SHEET PILE WALL.
5. REMOVE EXISTING CABLING NORTH OF THE SHEET PILE LOCATION BACK TO THE SOURCE.
6. CUT OPENING FOR CONDUIT IN SHEET PILE WALL.
7. RECONNECT THE SEPARATED SEGMENTS OF CONDUIT THROUGH THE SHEET PILE WALL AND SPLICE/REWIRE AS REQUIRED.
8. TEST EXISTING EQUIPMENT TO ENSURE COMMUNICATIONS HAVE BEEN RESTORED.

ADDITIONAL NOTES:

A. PROVIDE TRACING SURVEY TELEPHONE, CCTV, AND DATA CABLING. THE ROUTE AND LENGTH OF EACH SERVICE SHOULD BE IDENTIFIED AND LISTED ALONG WITH CABLE TYPE AND CONDITION.
B. CABLE TYPES THAT CANNOT BE SPLICED OR JOINED WITHIN A NEMA 4X RATED JUNCTION BOX SHALL BE REPLACED IN FULL FROM THE SOURCE TO THE FIELD TERMINATION.

GENERAL DRAWING NOTES:

1. DRAWING IS INTENDED TO BE PLOTTED IN COLOR.
2. REFER TO FUEL SYSTEM DRAWINGS (FS-1 THROUGH FS-4) FOR APPROXIMATE LOCATION OF FUEL SYSTEM RELATED COMPONENTS, INCLUDING BUT NOT LIMITED TO TRANSITION SUMPS, UNDERGROUND PIPING AND UNDERGROUND CONDUIT.

0 10 25 50

SCALE: 1" = 10'

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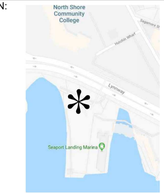
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KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
DAVID M. GLENNON
No. 42126
REGISTERED PROFESSIONAL ENGINEER

10/30/2025

DRAWING TITLE:

SOUTH BOARDWALK UTILITIES TELECOMM SHEET 6 OF 7

ACCESSION #:104998x

DESIGNED: AJB

DRAWN: MF CHECKED: JJH

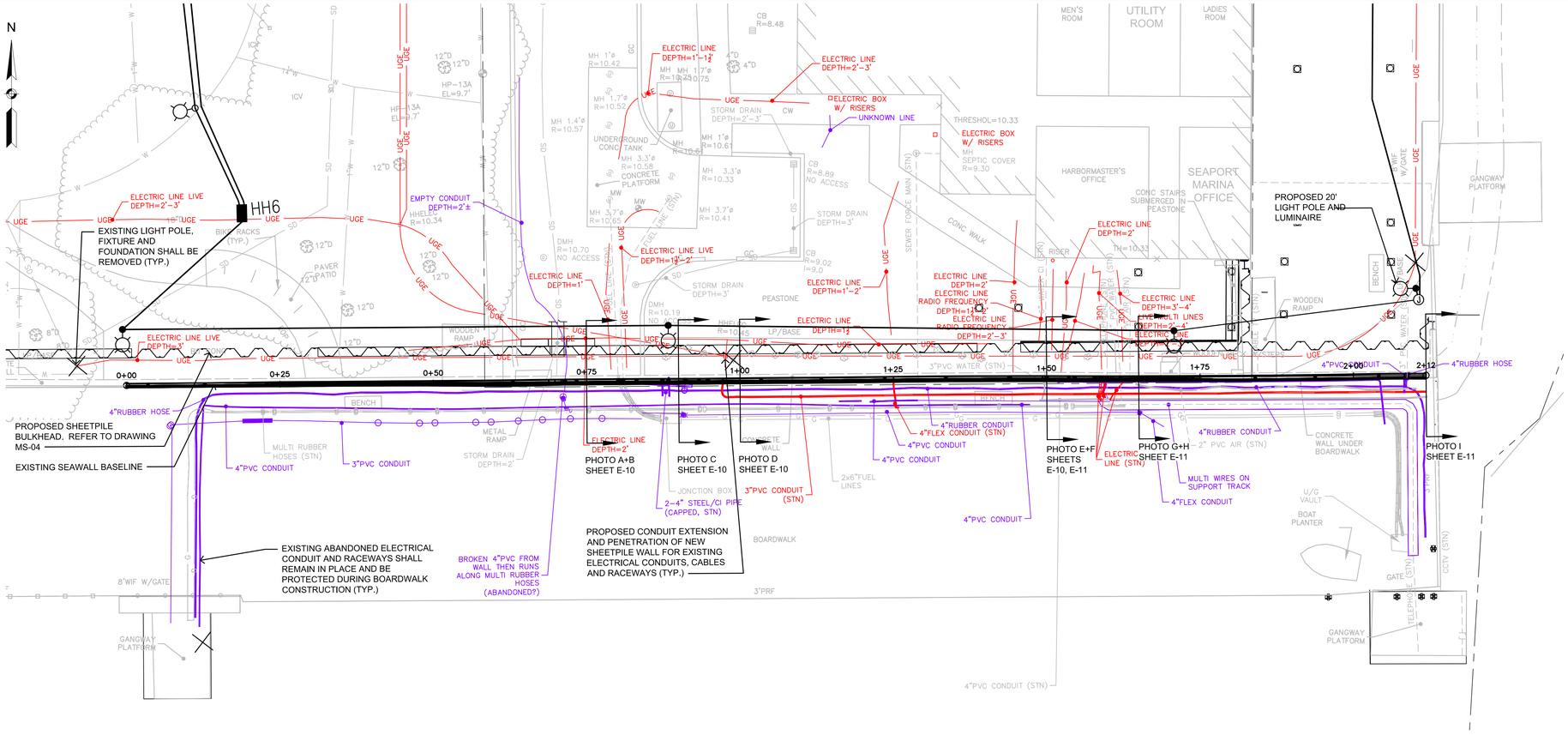
DATE: NOVEMBER 12, 2025

SCALE: 1" = 10'

SUBMISSION: BID SET

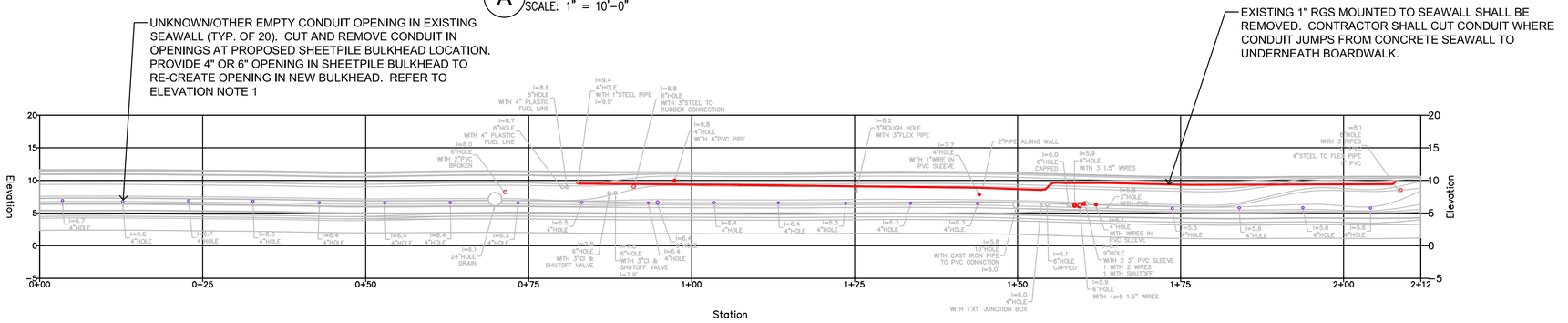
DRAWING NO.

UT-6



A ENLARGED BOARDWALK UTILITY PLAN AND BASELINE

SCALE: 1" = 10'-0"



B EXISTING SEAWALL UTILITY ELEVATION

SCALE: 1" = 10'-0"

ELEVATION NOTES:

1. IF AFTER FIELD VERIFICATION IT IS CONFIRMED THAT OTHER/UNKNOWN CONDUIT OPENINGS ARE ONLY AS DEEP AS THE THICKNESS OF EXISTING SEAWALL AND DOES NOT CONTINUE FURTHER INLAND/NORTH, THEN THE CONTRACTOR SHALL PROVIDE NEW 4" OR 6" SCH. 80 CONDUIT OPENINGS AT EQUIVALENT ELEVATION AS EXISTING IN NEW SHEETPILE BULKHEAD.

GENERAL DRAWING NOTES:

1. DRAWING IS INTENDED TO BE PLOTTED IN COLOR.
2. REFER TO DRAWINGS E-2 THROUGH E-5 FOR PROPOSED SITE LAYOUT PLAN DRAWINGS.
3. REFER TO UTILITY DRAWINGS UT-1 THROUGH UT-6 FOR GAS, WATER, SEWAGE, AIR AND OTHER UTILITY COORDINATION DRAWINGS INCLUDING A GENERAL SOUTH BOARDWALK PLAN.
4. REFER TO FUEL SYSTEM DRAWINGS (FS-1 THROUGH FS-4) FOR APPROXIMATE LOCATION OF FUEL SYSTEM RELATED COMPONENTS, INCLUDING BUT NOT LIMITED TO TRANSITION SUMPS, UNDERGROUND PIPING AND UNDERGROUND CONDUIT.

UTILITY NOTES:

1. CONTRACTOR SHALL PERFORM A FIELD INSPECTION AND LINE TRACING OF ALL ELECTRICAL POWER UTILITIES AND THOSE IDENTIFIED AND SHOWN AS OTHER/UNKNOWN PRIOR TO ANY CONSTRUCTION ACTIVITIES.

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dcr Massachusetts

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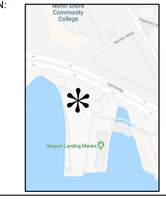
Stantec
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45 Blue Sky Drive, 3rd Floor
Burlington, MA 01803
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
DAVID M. GLENNON
No. 39726
REGISTERED PROFESSIONAL ENGINEER
10/30/2025

DRAWING TITLE:

SOUTH BOARDWALK UTILITIES ELECTRICAL SHEET 7 OF 7

ACCESSION #:104999x

DESIGNED: AJB

DRAWN: HAB CHECKED: AJB

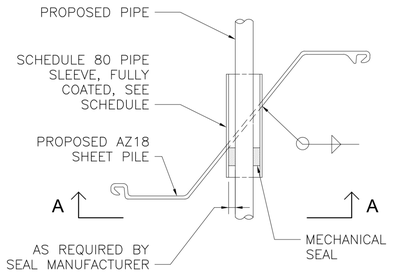
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SCALE: 1" = 10'

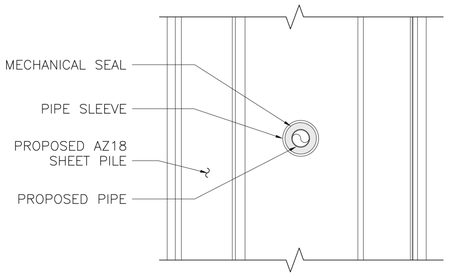
SUBMISSION: BID SET

DRAWING NO.

UT-7



PLAN



ELEVATION A-A

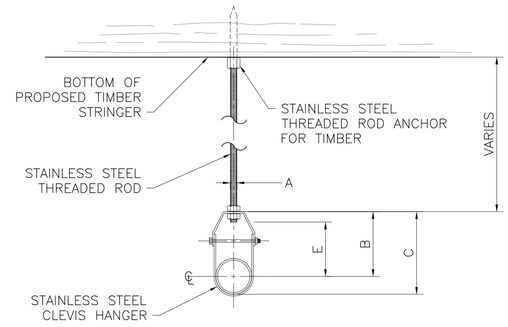
SCHEDULE 80 PIPE SLEEVE									
PIPE SIZE NPS	1/2"	3/4", 1"	1 1/4"	1 1/2"	2, 2 1/2"	3"	3 1/2", 4"	5"	6"	8"
PIPE SLEEVE NPS	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"	10"	12"

NOTES:

1. MECHANICAL SEAL SHALL BE SUITABLE FOR MARINE ENVIRONMENT WITH 316 STAINLESS STEEL HARDWARE.

TYPICAL PIPE SLEEVE DETAIL

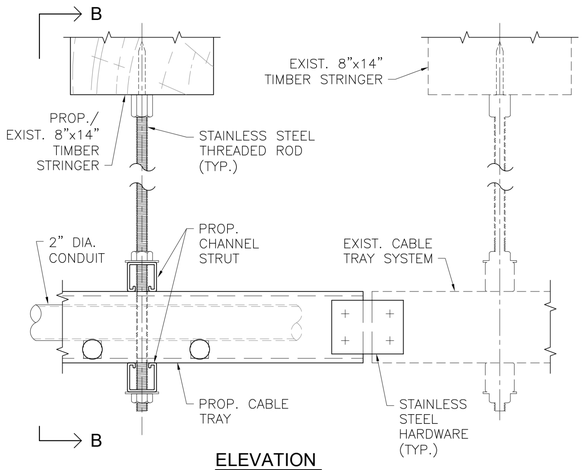
SCALE: 1-1/2" = 1'-0"



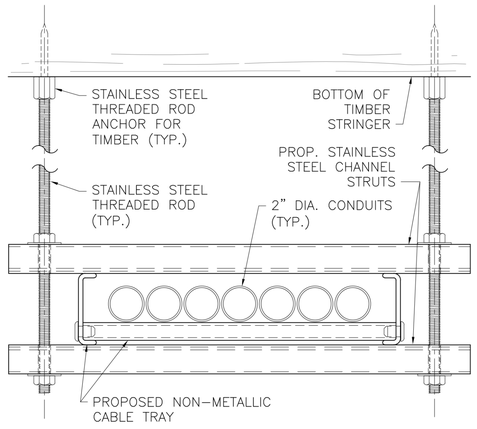
CLEVIS HANGER					
PIPE SIZE	MAXIMUM LOAD	A	B	C	ROD TAKE OUT E
2"	730	3/8"	3 3/8"	4 5/8"	3 1/8"
4"	1430	5/8"	5 3/8"	7 3/4"	4 3/8"

TYPICAL CLEVIS HANGER DETAIL

SCALE: 3" = 1'-0"



ELEVATION



SECTION B-B

NOTES:

1. EXISTING CABLE TRAY IS MANUFACTURED BY THOMAS & BETTS AND TERMINATES AT A HORIZONTAL BEND, CATALOG NUMBER NM-M4P1890HB12.
2. PROPOSED CABLE TRAY SHALL BE NON-METALLIC AND ATTACHED TO EXISTING CABLE TRAY. LENGTH TO SUIT.
3. CHANNEL STRUTS AND HARDWARE SHALL BE 316 STAINLESS STEEL.

TYPICAL CABLE TRAY DETAIL

SCALE: 3" = 1'-0"

GENERAL NOTES:

1. THESE DETAILS SHALL BE USED AS REQUIRED FOR SUPPORT OF UTILITIES BEING REINSTALLED UNDER THE BOARDWALK STRUCTURE IN THE VICINITY EXTENDING OVER THE DEMOLISHED SEAWALL.

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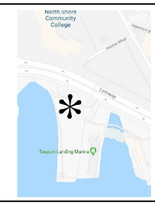
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VETERANS MEMORIAL PARK
WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
ERIK S. VILMUNEN STRUCTURAL No. 41593
REGISTERED PROFESSIONAL ENGINEER

Erik Vilmunen
2025.10.30 17:01:11-04'00'

DRAWING TITLE:

SOUTH BOARDWALK UTILITY SUPPORT DETAILS

ACCESSION #:105000x

DESIGNED: ESV

DRAWN: AMS CHECKED: ESV

DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

UT-8

GENERAL NOTES:

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS AS INDICATED IN THE CONTRACT DOCUMENTS AND AS REQUIRED BY CODE.
2. INSTALL AND TEST ALL FUEL SYSTEM EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
3. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS NOT SHOWN ON THESE FUEL SYSTEM PLANS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK AND REFER TO CIVIL ENGINEERING PLANS PREPARED FOR THE LOCATION OF ALL EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL PAY FOR AND REPAIR DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED.
4. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH CIVIL, MECHANICAL, ELECTRICAL, ETC., AS SHOWN ON OTHER CONTRACT DOCUMENTS.
5. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED UNLESS IDENTIFIED ON THE PLANS.
6. THE CONTRACTOR SHALL OBTAIN ALL STATE AND LOCAL TANK HANDLING LICENSES AND CERTIFICATIONS GOVERNING THE TYPE OF WORK TO BE PERFORMED. PROOF OF NECESSARY LICENSES AND CERTIFICATIONS SHALL BE FURNISHED TO THE OWNER OR ENGINEER UPON REQUEST.
7. THE CONTRACTOR SHALL OBTAIN AND MAINTAIN INSTALLER CERTIFICATIONS AS REQUIRED BY THE EQUIPMENT MANUFACTURERS OUTLINED IN THIS PROJECT, INCLUDING CERTIFICATIONS FOR INSTALLATION OF THE ENVIRONMENTAL MONITORING SYSTEM AND ABOVEGROUND PIPING SYSTEMS. PROOF OF NECESSARY MANUFACTURER CERTIFICATIONS SHALL BE FURNISHED TO THE OWNER OR ENGINEER UPON REQUEST.
8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM ALL GOVERNING FEDERAL, STATE, AND LOCAL JURISDICTIONS AND MAKE ARRANGEMENTS FOR INSPECTIONS AND APPROVALS FOR THE WORK. WHERE APPLICABLE, THIS INCLUDES ALL PERMITS/APPROVALS FROM THE LOCAL MUNICIPALITY. ALL INCURRED COSTS ARE TO BE BORNE BY THE CONTRACTOR. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL DELIVER TO THE OWNER ALL NECESSARY CERTIFICATES OF APPROVAL FROM ALL GOVERNING JURISDICTIONS AS PART OF THE PROJECT CLOSEOUT DOCUMENTATION.
9. THE CONSTRUCTION DRAWINGS COVER THE DESIGN AND INSTALLATION ELEMENTS OF THE PROPERTY IMPROVEMENT PROJECT. ANY DEVIATION FROM THE DRAWINGS MUST BE APPROVED BY THE OWNER PRIOR TO THE CONTRACTOR MAKING ANY SUBSTITUTIONS, CHANGES, OR MODIFICATIONS.
10. THE OWNER SHALL, AT ALL TIMES, HAVE ACCESS TO THE WORK, AND THE CONTRACTOR SHALL PROVIDE FOR SUCH ACCESS AND FOR INSPECTION. IF CERTAIN WORK IS FOUND TO BE NOT IN ACCORDANCE WITH THE CONTRACTUAL DOCUMENTS, THE DEFICIENT WORK MUST BE IMMEDIATELY REMOVED AND REPLACED TO THE OWNER'S SATISFACTION.
11. ALL TESTS REQUIRED SHALL BE DOCUMENTED ON A TEST REPORT SIGNED BY THE CONTRACTOR. ALL TEST REPORTS SHALL BE SUBMITTED TO THE OWNER WITHIN 3 DAYS OF THE TEST AND INCLUDED IN THE CLOSEOUT DOCUMENTS.
12. SHOP DRAWINGS FOR ALL FUEL SYSTEM EQUIPMENT OUTLINED ON THE FUEL SYSTEM EQUIPMENT LIST, SHALL BE SUBMITTED TO THE OWNER. REALIZING THE LONG LEAD TIME ASSOCIATED WITH CERTAIN EQUIPMENT, THE CONTRACTOR SHALL MAKE EVERY EFFORT TO SUBMIT THESE SHOP DRAWINGS AS SOON AS POSSIBLE AFTER THE CONTRACT AWARD DATE. IF THE CONTRACTOR DOES NOT SUBMIT SHOP DRAWINGS IN THE ALLOTTED TIME, NO CONSIDERATION WILL BE GIVEN ON THE PROJECT SCHEDULE FOR SUPPLY DELAYS.
13. THE CONTRACTOR SHALL PROVIDE CLOSEOUT DOCUMENTATION IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. PRIMARY TANK AND PIPING TEST RESULTS AND TEST RESULTS FOR ANY SECONDARY CONTAINMENT STRUCTURE OR ANNULUS AND CONTAINMENT SUMPS IF INDICATED.
14. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR AS SPECIFIED IN THE CONTRACT DOCUMENTS.
15. THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSION IN THE CONTRACT. IF AN ERROR OR OMISSION IS DISCOVERED, THE ENGINEER SHALL BE PROMPTLY NOTIFIED SO CORRECTIONS AND INTERPRETATIONS NECESSARY TO FULFILL THE INTENT OF THE CONTRACT CAN BE MADE.
16. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE FUELING AND RELATED SYSTEMS SPECIFICATION SECTIONS.
17. ALL ELEMENTS OF WORK ARE TO BE CONSIDERED NEW UNLESS INDICATED EXISTING OR RELOCATED. CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REFER TO CIVIL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS OTHERWISE NOTED.
18. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND CONDUITS AS SHOWN AND/OR NOTED ON THE DRAWINGS. THIS SHALL INCLUDE ANY AND ALL FABRICATIONS PRIOR TO INSTALLATION.
19. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND/OR NOTED ON THE DRAWINGS.
20. IT SHALL BE UNDERSTOOD THAT ALL WORK PERFORMED SHALL BE DONE BY A LICENSED CONTRACTOR AND IN A FIRST CLASS WORKMANLIKE MANNER. CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND GOVERNING AUTHORITIES.
21. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITIONS ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT AND FURNISHINGS CAUSED DURING PERFORMANCE OF WORK.
22. THE CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED, FREE FROM DEBRIS AT ALL TIMES AND AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
23. IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATION TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR SHALL BE EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
24. WHERE CORE DRILLING OF FLOOR/WALLS IS REQUIRED, CONTRACTOR SHALL SEAL OPENINGS WATERTIGHT AFTER UTILITIES HAVE BEEN INSTALLED. LOCATION OF CORED HOLES SHALL COORDINATE WITH LOCATION OF EQUIPMENT IN A MANNER TO BE CLEAN AND FUNCTIONAL. THE CONTRACTOR SHALL INSTALL ONLY ONE CONDUIT PER HOLE AND SEAL THE OPENING AROUND THE CONDUIT AS SPECIFIED, USING A U.L. LISTED FIRE PROOFING COMPOUND.
25. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
26. MAGNETIC SAFETY TAPE SHALL BE USED ABOVE ALL UNDERGROUND CONDUIT AND PIPING.

01 FS.1 GENERAL NOTES

ELECTRICAL NOTES:

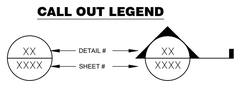
1. UNLESS NOTED AS EXISTING, ALL EQUIPMENT, WIRING, DEVICES, ETC., SHALL BE NEW.
2. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LATEST EDITION (NEC) AND THE LATEST EDITION OF ALL LOCAL CODES, RULES AND ORDINANCES HAVING JURISDICTION. DUE TO THE NATURE OF THIS INSTALLATION, THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO ARTICLES 501, 511, 514 AND 515 OF THE NEC.
3. ALL CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY, EXACT ROUTING SHALL BE DETERMINED IN THE FIELD, UNLESS OTHERWISE NOTED.
4. ALL ELECTRICAL EQUIPMENT SHALL BE RAIN TIGHT WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE LIQUID TIGHT.
5. WIRE WAYS SHALL BE SIZED AS REQUIRED, PER NEC, UNLESS OTHERWISE NOTED.
6. COORDINATE ALL ELECTRICAL SITE WORK WITH GENERAL CONTRACTOR.
7. ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME TYPE (THERMAL MAGNETIC). TWO AND THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP. NO TIE HANDLES PERMITTED.
8. ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, FOR THE INTENDED USE, WITH UNDERWRITER'S LABORATORIES INC. (U.L.) WHERE STANDARDS HAVE BEEN ESTABLISHED BY U.L.
9. ALL CONDUCTORS SHALL BE IN CONDUITS.
10. COORDINATE ELECTRIC SERVICE WITH BUILDING ELECTRICAL.
11. ELECTRICAL CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REFER TO ELECTRICAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS OTHERWISE NOTED.
12. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND CONDUITS AS SHOWN AND/OR NOTED ON THE DRAWINGS. THIS SHALL INCLUDE ANY AND ALL FABRICATIONS PRIOR TO INSTALLATION.
13. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS, AS NOT TO INTERFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN TIME OR LAG TIME.
14. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND/OR NOTED ON THE DRAWINGS.
15. IT SHALL BE UNDERSTOOD THAT ALL WORK PERFORMED SHALL BE DONE BY A LICENSED ELECTRICAL CONTRACTOR AND IN A FIRST CLASS WORKMANLIKE MANNER. CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND GOVERNING AUTHORITIES.
16. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITIONS ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT AND FURNISHINGS CAUSED DURING PERFORMANCE OF WORK.
17. THE ELECTRICAL CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED, FREE FROM DEBRIS AT ALL TIMES AND AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
18. IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATION TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL BE EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
19. WHERE CORE DRILLING OF FLOOR/WALLS IS REQUIRED, CONTRACTOR SHALL SEAL OPENINGS WATERTIGHT AFTER UTILITIES HAVE BEEN INSTALLED. LOCATION OF CORED HOLES SHALL COORDINATE WITH LOCATION OF EQUIPMENT IN A MANNER TO BE CLEAN AND FUNCTIONAL. THE CONTRACTOR SHALL INSTALL ONLY ONE CONDUIT PER HOLE AND SEAL THE OPENING AROUND THE CONDUIT AS SPECIFIED, USING A U.L. LISTED FIRE SAFING COMPOUND.
20. ELECTRICAL CONTRACTOR SHALL VERIFY CIRCUIT PROTECTIVE DEVICE RATING FOR EQUIPMENT PRIOR TO CONSTRUCTION.
21. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
22. AS A MINIMUM, ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS, FOR THE TYPE OF EQUIPMENT AND INTENDED USE, OF THE FOLLOWING:
    - 22.1 AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
    - 22.1 ILLUMINATING ENGINEERS SOCIETY (IES).
    - 22.2 AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
    - 22.3 NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).

    NOTE: THESE STANDARDS ARE SUBORDINATE TO CODES AND STANDARDS SET BY U.L.
23. ALL PANEL DIRECTORIES SHALL BE TYPE WRITTEN. HAND WRITTEN DIRECTORIES ARE UNACCEPTABLE.
24. ALL CONNECTIONS TO GROUND RODS SHALL BE MADE WITH U.L. APPROVED WELDED CONNECTIONS, UNLESS NOTED OTHERWISE.
25. PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALL AND STRUCTURAL SLABS.
26. CONTRACTOR TO VERIFY AVAILABLE SERVICE VOLTAGE AND PHASES WITH THE LOCAL UTILITY COMPANY PRIOR TO BID, AND PROVIDE BID ALLOWANCE FOR ALTERNATIVES.
28. ELECTRICAL CONDUITS SHALL COMPLY WITH THE FOLLOWING:
    - A. RIGID CONDUIT: CONDUITS SHALL BE NEW PVC COATED RIGID GALVANIZED STEEL SIZED IN ACCORDANCE WITH NFPA 70, BUT NO SMALLER THAN 3/4" DIAMETER.
    - B. FLEXIBLE CONDUIT: FLEXIBLE CONDUIT IN NEC, CLASS I, DIVISION 1 CLASSIFIED AREAS SHALL BE CROUSE-HINDS, FLEXIBLE COUPLINGS TYPE "ED" SERIES OR EQUAL. FLEXIBLE CONDUIT IN NEC, CLASS I, DIVISION 2 OR NON-CLASSIFIED AREAS SHALL BE LIQUID-TIGHT METALLIC-CORE GALVANIZED STEEL, GROUNDING TYPE WITH EXTRUDED PVC COVER. ADAPTERS AND CONNECTORS SHALL BE LIQUID-TIGHT CROUSE-HINDS "LT" TYPE CONNECTORS OR EQUAL.
29. JUNCTION/OUTLET BOXES IN CLASSIFIED HAZARDOUS AREAS SHALL BE EXPLOSION PROOF, CLASS I, DIVISION 1 OR DIVISION 2, CROUSE-HINDS, APPLETON, OR APPROVED EQUAL, AND SIZED IN ACCORDANCE WITH NEC REQUIREMENTS.
30. ALL ELECTRICAL WIRE AND CABLE FOR CIRCUITS SHALL BE PROPERLY SIZED TO CONFORM TO NFPA 70.
31. ALL WIRE AND CABLE INSTALLED WITHIN CONDUITS THAT EXIT, ENTER, OR GO THROUGH A HAZARDOUS AREA MUST CONFORM TO NEC, ARTICLE 501-13 FOR CONDUCTOR INSULATION.
32. CONTROL CABLE SHALL CONSIST OF MULTI-CONDUCTORS OF STRANDED WIRES, 95% SHIELD COVERAGE, BLACK PVC JACKET.
33. ALL CONDUCTORS SHALL BE RHW.
34. METALLIC SAFETY TAPE SHALL BE USED ABOVE ALL UNDERGROUND CONDUIT.
35. ALL CIRCUITS AND SYSTEMS SHALL BE GROUNDED IN ACCORDANCE WITH APPLICABLE SECTIONS OF ARTICLES 250 AND 500 OF THE NEC.
36. ALL CONTROL DEVICES, MOTORS OR OTHER APPARATUS, INCLUDING NON-CURRENT CARRYING ENCLOSURES, FRAMES, AND CONDUIT FOR POWER AND CONTROL, ARE TO BE PERMANENTLY AND EFFECTIVELY GROUNDED.
37. ALL WIRING SHALL BE LABELED AND COLOR-CODED TO IDENTIFY EACH WIRE FROM THE POINT OF ORIGIN, INTERMEDIATE JUNCTION POINTS, AND POINT OF TERMINATION. IN ENCLOSURES CONTAINING NUMBERED TERMINAL BOARDS, A DIRECTORY OF THE PURPOSE OF THE WIRE CONNECTED TO EACH TERMINAL BOARD SHALL BE SUFFICIENT. AN AS-BUILT DRAWING OF THE COLOR CODED WIRES IDENTIFYING EACH AS ACTUALLY INSTALLED SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT.
38. UNLESS SO SPECIFIED ON THE CONSTRUCTION DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND SPECIFYING ALL CIRCUIT BREAKERS AND CONDUCTORS. ALL CONDUCTORS SHALL BE SIZED TO MEET THE RECOMMENDATIONS FOR MAXIMUM VOLTAGE DROP IN THE NEC.
40. ALL CONTROL SYSTEMS SHALL BE IN PROPER OPERATING CONDITION AND APPROVAL MUST BE GIVEN BY THE CONTROL SYSTEM APPARATUS MANUFACTURER, AS WELL AS BY THE OWNER, BEFORE ANY FINAL ACCEPTANCE IS MADE. WHERE PORTIONS OF EXISTING CONTROL / HOOK SIGNAL WIRING IS TO BE REUSED THE CONTRACTOR SHALL FIELD VERITY POINT OF CONNECTION TO NEW WIRING.
42. THE CONTRACTOR SHALL THOROUGHLY TEST ALL WIRING FOR SHORTS AND GROUNDS BEFORE CURRENT IS TURNED ON.
43. THE CONTRACTOR SHALL SECURELY FASTEN CONDUITS TO OUTLET BOXES, PANEL-BOARDS, ETC., WITH TWO NUTS AND ONE BUSHING OR THREAD HUB. CONDUITS SHALL HAVE ENDS BUTTED INSIDE COUPLINGS.

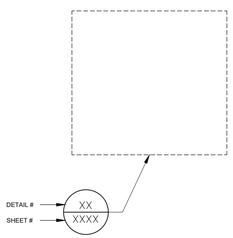
ABBREVIATIONS

AG	ABOVEGROUND
ATG	AUTOMATIC TANK GAUGE
BLK	BLACK
CONT	CONTINUATION
D	DISCONNECT
DIA.	DIAMETER
DW	DOUBLE WALL
EMT	ELECTRICAL METALLIC TUBING
ESD	EMERGENCY STOP DEVICE
E-STOP	EMERGENCY STOP
FF	FRANKLIN FUELING
FFE	FINISHED FLOOR ELEVATION
FRP	FIBERGLASS REINFORCED PLASTIC
GAP	GASOLINE ADVERTISING PRODUCTS
GLV	GALVANIZED
HLA	HIGH LEVEL ALARM
I.S.	INTRINSICALLY SAFE
J	JUNCTION BOX
MFR	MANUFACTURER
MLLW	MEAN LOWER LOW WATER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OHE	OVERHEAD ELECTRIC SERVICE
PL	PROPERTY LINE
RC	RIGID CONDUIT
RMC	RIGID METAL CONDUIT
SCH	SCHEDULE
SS	STAINLESS STEEL
STP	SUBMERSIBLE TURBINE PUMP
SW	SINGLE WALL
TBD	TO BE DETERMINED
TYP	TYPICAL
UE	UNDERGROUND ELECTRIC
UG	UNDERGROUND
UST	UNDERGROUND STORAGE TANK
VR	VAPOR RECOVERY
WL	WARNING LIGHT
WW	WIREWAY

CALL OUT LEGEND



ENLARGED PLAN DETAIL BOX LEGEND



03 FS.1 ABBREVEATIONS AND LEGEND

LYNN MARINA PHASING PLAN/ SCOPE OF WORK:

THE FOLLOWING SCOPE OF WORK IS INTENDED TO GIVE THE CONTRACTOR AN OVERALL SCOPE OF THE WORK AND IS NOT INTENDED TO INDICATE EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS AND WORK NECESSARY FOR A COMPLETE PROJECT AND A COMPLETE OPERATING SYSTEM.

GENERAL:

1. OBTAIN ALL LOCAL AND STATE PERMITS NECESSARY TO COMPLETE THE WORK. IF TANKS ARE TO BE OUT OF SERVICE FOR GREATER THAN 30 DAYS, THE MADEP REGISTRATION SHALL BE UPDATED TO INDICATE THE SYSTEMS ARE IN TEMPORARY CLOSURE.
2. SHUT OFF AND LOCK OUT THE POWER TO THE GASOLINE AND DIESEL SUBMERSIBLE PUMPS AND DISPENSERS.
3. PLACE CONCRETE BARRIER AROUND THE PERIMETER OF THE TANK MAT TO PREVENT HEAVY CONSTRUCTION VEHICLE TRAFFIC OVER THE TANK MANWAYS AND FILLS.
4. THE TANK MONITORING SYSTEM SHALL REMAIN ON AND ALL COMPLIANCE ACTIVITIES AND INSPECTIONS SHALL BE PERFORMED DURING THE CONSTRUCTION. REPROGRAM VEEDER ROOT TO ELIMINATE TEMPORALLY INACTIVE SENSORS DURING CONSTRUCTION TO AVOID CONTINUOUS ALARM CONDITIONS.
5. LOCK ALL FILLS AND DISCONTINUE DELIVERIES.

DEMOLITION:

6. INSTALL TEMPORARY VENTS AND INSTALL EXISTING VENT CAPS ON BOTH TANKS. PROVIDE TEMPORARY SUPPORT FOR PIPING AS NECESSARY. TANKS MUST BE VENTED AT ALL TIMES.
7. DRAIN THE PRODUCT FROM ALL FUEL PIPING.
8. CLOSE THE BALL VALVES IN INTERMEDIATE SUMP #1 AND DISCONNECT BOTH PRODUCT LINES IN INTERMEDIATE SUMP #1. ROTATE BALL VALVES IF NECESSARY, TO ENSURE VALVES ARE COMPLETELY CLOSED. DRAIN ANY LINE WITH CLOSED BALL VALVE AS NECESSARY TO PREVENT THERMAL EXPANSION OF PRODUCT DURING CONSTRUCTION.
9. CLOSE THE BALL VALVES IN BOTH TANK PIPING SUMPS AND DISCONNECT THE PRODUCT LINES.
10. REMOVE THE PRESSURE RELIEF VALVE AND THE SOLENOID VALVE IN BOTH PIPING SUMPS AND CAP/PLUG THE LINE INTO THE SUBMERSIBLE PUMP.
11. REMOVE THE PRODUCT LINES BETWEEN THE TANK SUMPS AND INTERMEDIATE SUMP #1.
12. CAUTIOUSLY EXCAVATE AND EXPOSE PIPING DUCT AND VENT LINES BETWEEN SEAWALL AND TANK MAT WITHOUT DAMAGING DUCTING OR VENT PIPING. DISCONNECT PIPING DUCT FROM INTERMEDIATE SUMP #1 AND COIL DUCTING BACK TO TANKS AND PROTECT DURING CONSTRUCTION. CAP END OF DUCTING TO PREVENT WATER AND DEBRIS FROM ENTERING DURING CONSTRUCTION. DUCTING MUST NOT BE DAMAGED DURING REMOVAL. DAMAGED DUCTING MUST BE REPLACED BY THE CONTRACT AND REMAIN WATERTIGHT AFTER CONSTRUCTION.
13. TEMPORARILY SEAL DUCT PENETRATIONS IN INTERMEDIATE SUMP #1.
14. REMOVE WIRING FROM CONDUIT BETWEEN TANKS AND THE FIRST JUNCTION BOX UNDER THE DOCK AREA. REMOVE SEAL OFF AS NEEDED. SENSOR WIRING SHOULD NOT BE SPLICES.
15. REMOVE CONDUIT AT SEAWALL TO ALLOW RECONSTRUCTION OF THE SEAWALL.
16. CUT, REMOVE AND DISPOSE OF VENT PIPING AND RISERS BACK TO TANK MAT AS SHOWN. CAP VENT PIPING DURING CONSTRUCTION.
17. COORDINATE BACK FILLING OF PIPING TRENCH WITH CIVIL CONTRACTOR. FUEL SYSTEM MUST BE ADEQUATELY REMOVED AND MADE SAFE TO ALLOW CIVIL CONTRACTOR ACCESS FOR SEAWALL REPLACEMENT CONSTRUCTION.

INSTALLATION:

18. EXCAVATE PIPING TRENCH BETWEEN TANKS AND SEAWALL FOR PIPING AND CONDUITS UPON THE COMPLETION OF THE SEAWALL CONSTRUCTION ACTIVITIES. INSTALL MFR APPROVED PIPE BEDDING AS REQUIRED.
19. EXCAVATE AREA AT SEAWALL FOR NEW VENT ACCESS MANWAY AND PIPING TRANSITION SUMP.
20. INSTALL NEW VENT ACCESS MANWAY AND PIPING TRANSITION SUMP.
21. INSTALL NEW FRP VENT LINES, VENT ACCESS MANWAY, VENT RISERS AND VENT CAPS. TIGHTNESS TEST NEW VENT LINES PRIOR TO CONNECTING TO EXISTING PIPING. REMOVE TEMPORARY CAP FROM VENT LINES.
22. REINSTALL PIPING DUCT BETWEEN PIPING SUMPS AND THE TRANSITION SUMP. INSTALL PIPING DUCT FROM TRANSITION SUMP TO EXISTING INTERMEDIATE SUMP #1. REPLACE PORTIONS OF PIPE DUCTING AS REQUIRED TO MAKE WATER TIGHT.
23. INSTALL ELECTRICAL CONDUITS, FITTINGS AND PENETRATIONS TO THE NEW TRANSITION SUMP.
24. INSTALL NEW APT DIRECT BURY PIPING THROUGH DUCT FROM PIPING SUMP TO TRANSITION SUMP . INSTALL TERMINATION FITTINGS.
25. INSTALL NEW APT MARINA GRADE PIPING FROM TRANSITION SUMP TO EXISTING INTERMEDIATE SUMP #1.
26. REPAIR SUMP PENETRATIONS IN INTERMEDIATE SUMP #1 WITH WATER-TIGHT PIPE AND CONDUIT FITTINGS. IF SUMP IS UNABLE TO BE MADE LIQUIDTIGHT, FABRICATE NEW SUMP OR MODIFY EXISTING SUMP OR PENETRATIONS AS REQUIRED TO MAKE SUMP LIQUID TIGHT. ALL FITTINGS TO BE UL LISTED AND COMPATIBLE WITH GASOLINE AND DIESEL.
27. INSTALL NEW SOLENOIDS AND PIPING FITTINGS IN TRANSITION SUMP AND CONNECT PRODUCT PIPING.
28. CONNECT PRODUCT PIPING AT INTERMEDIATE SUMP #1. SECONDARY TEST BOOT SHALL BE TERMINATED WITHIN THE INTERMEDIATE SUMP #1. BALL VALVES SHALL BE MADE ACCESSIBLE AND HANDLE SHALL PIVOT FREELY WITHOUT ANY RESTRICTIONS.
29. INSTALL PIPING IN TANK PIPING SUMPS AND CONNECT TO SUBMERSIBLE PUMPS.
27. AIR TEST NEW PIPING PRIMARY AND SECONDARY. AIR TO REMAIN ON PIPING SECONDARY DURING BACKFILL ACTIVITIES.
28. BACKFILL PIPING TRENCHES AND PAVE. NO TRAFFIC SHOULD TRAVEL OVER PIPING TRENCHES UNLESS TRENCHES ARE COVERED WITH PLATES OR PAVED.
29. PULL WIRE FROM SUBMERSIBLE PUMP CONTROLLER TO SOLENOID VALVES AND CONNECT WIRING.
30. INSTALL SUMP LIQUID SENSORS WITH ASSOCIATED WIRING TO ENV CONSOLE IN INTERMEDIATE SUMP #1 AND TRANSITION SUMP.
31. REESTABLISH POWER TO SUBMERSIBLE PUMPS AND PURGE LINES.
32. ALL PRODUCT PIPING SHALL BE REQUIRED TO PASS A PRECISION TEST IN ACCORDANCE WITH 310 CMR 80.32 .
33. HYDROSTATICALLY TEST TANK PIPING SUMPS, VENT SUMP, INTERMEDIATE SUMP #1 AND TRANSITION SUMP ABOVE HIGHEST PENETRATION.
34. PRODUCT PIPING TEST BOOT TO REMAIN TIGHT AND CAPPED AT PIPING INTO TRANSITION SUMP #1. TEST BOOT TO BE PULLED BACK AND OPEN AT TANK PIPING SUMP.
35. INSTALL NEW GASKETS FOR TANK PIPING SUMP LIDS AND TANK PIPING SUMP MANWAY LIDS.
36. CONFIRM TANK MONITORING SYSTEM IS PROPERLY PROGRAMMED AND ALL SENSORS ARE CONNECTED AND OPERATING CORRECTLY.

02 FS.1 SCOPE OF WORK

Proposed Equipment List or Approved Equal

Basis of Design Manufacturer	Basis of Design Model	Description
OPW	PSTF-4630	Fiberglass Transition Sump
Bravo	B501-S-220	Fiberglass Vent Transition Sump
NOV	3000 / L	2" SW, FRP Vent Piping
OPW	FL90BLACK-SK12	Grade Level Manhole
Franklin Fueling	XP-200-MD-250	2" Marina Grade APT Flexible Piping
Franklin Fueling	XP-200-SC	2" APT Flexible Piping
Franklin Fueling	DUCT-400-100	4" APT XP Ducting
Morrison Bros	710 0200 1V	2" Solenoid Valve
Eaton	64121	2" Breakaway Valve
Franklin Fueling	EZX20BVSS	2" Stainless Steel EZ Fit Ball Valve
Franklin Fueling	EZCLAMP	2" EZ Fit Clamp
Franklin Fueling	MS-XP-200-200SS	Stainless Steel XP pipe clamshell swivel fittng for 2" APT XP Pipe
Franklin Fueling	EZXEZ90	2" EZ Fit 90 Deg. Elbow Flange x Flange
Franklin Fueling	FWEB-200-SC	Fusion Ducted Entry Boot for 2" XP Pipe
Franklin Fueling	RDEB-200-SC	Rigid Entry Boot for Fiberglass Sumps
Franklin Fueling	STB-200	Secondary Test Boot for XP-200-SC Pipe
Franklin Fueling	FF20X12SS	2" Flexible Connector Stainless Steel
Emco Wheaton	A0084-200	2" PV Vent Cap
Emco Wheaton	A4103-002	2" Vent Cap
Veeder Root	794380-208	Non-Discriminating Sump Sensor
Bravo	F-20-F	2" SW FRP Sump Penetration

04 FS.1 EQUIPMENT LIST

BROWN, RICHARDSON + ROWE

LANDSCAPE ARCHITECTS AND PLANNERS
65 FRANKLIN ST, 4TH FLOOR
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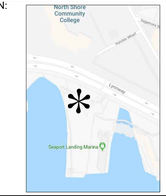
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

FUEL SYSTEM GENERAL NOTES AND EQUIPMENT LIST

ACCESSION #:105001x

DESIGNED: CLC

DRAWN: AC CHECKED: ZMR

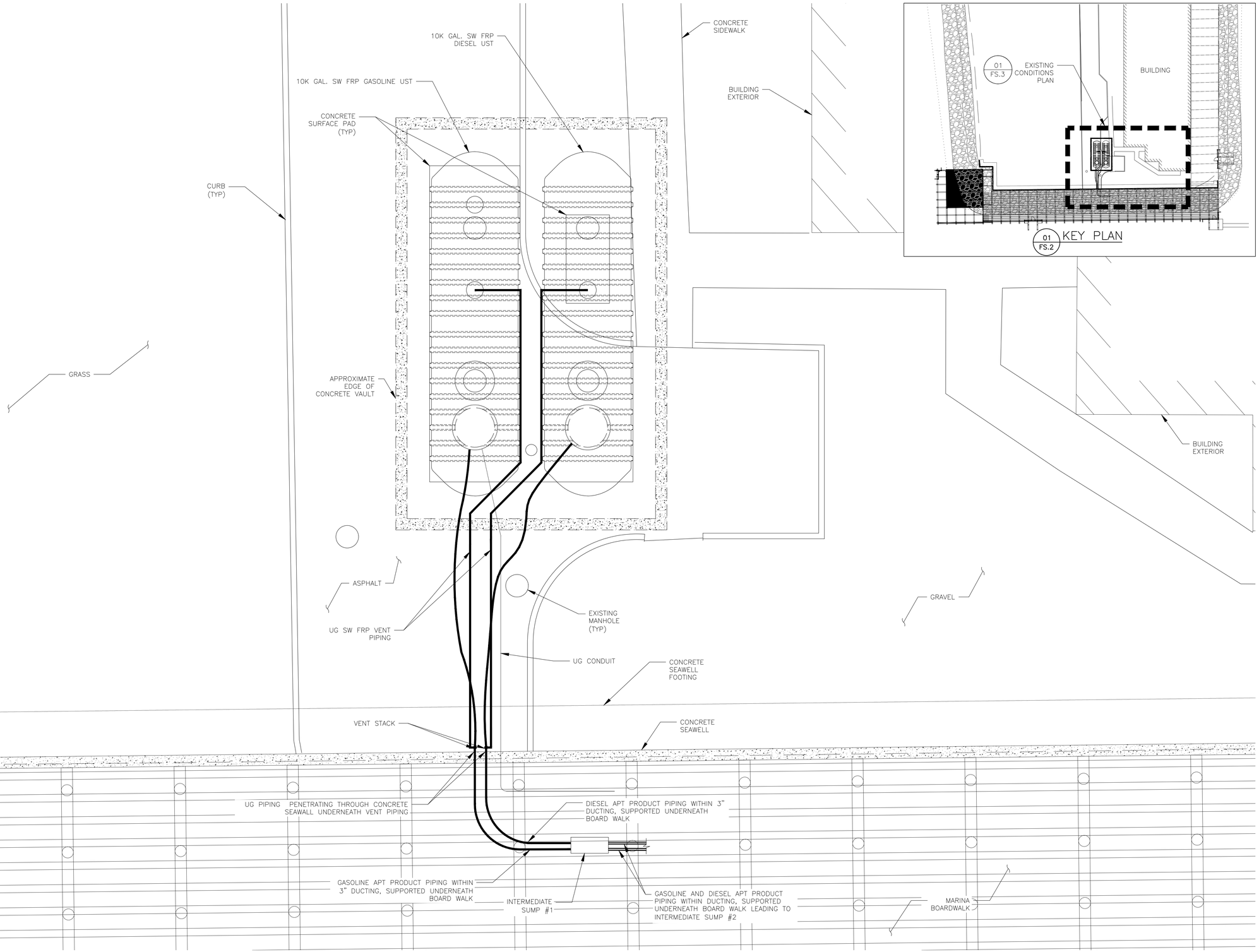
DATE: NOVEMBER 12, 2025

SCALE:

SUBMISSION: BID SET

DRAWING NO.

FS-1



02 FS.2 EXISTING CONDITIONS PLAN

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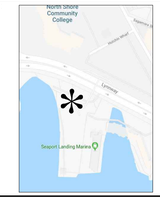
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WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
ZACHARY M. RICH
MECHANICAL
No. 58170
REGISTERED PROFESSIONAL ENGINEER
10/30/2025

DRAWING TITLE:

FUEL SYSTEM EXISTING CONDITIONS

ACCESSION #:105002x

DESIGNED: CLC

DRAWN: AC CHECKED: ZMR

DATE: NOVEMBER 12, 2025

SCALE:

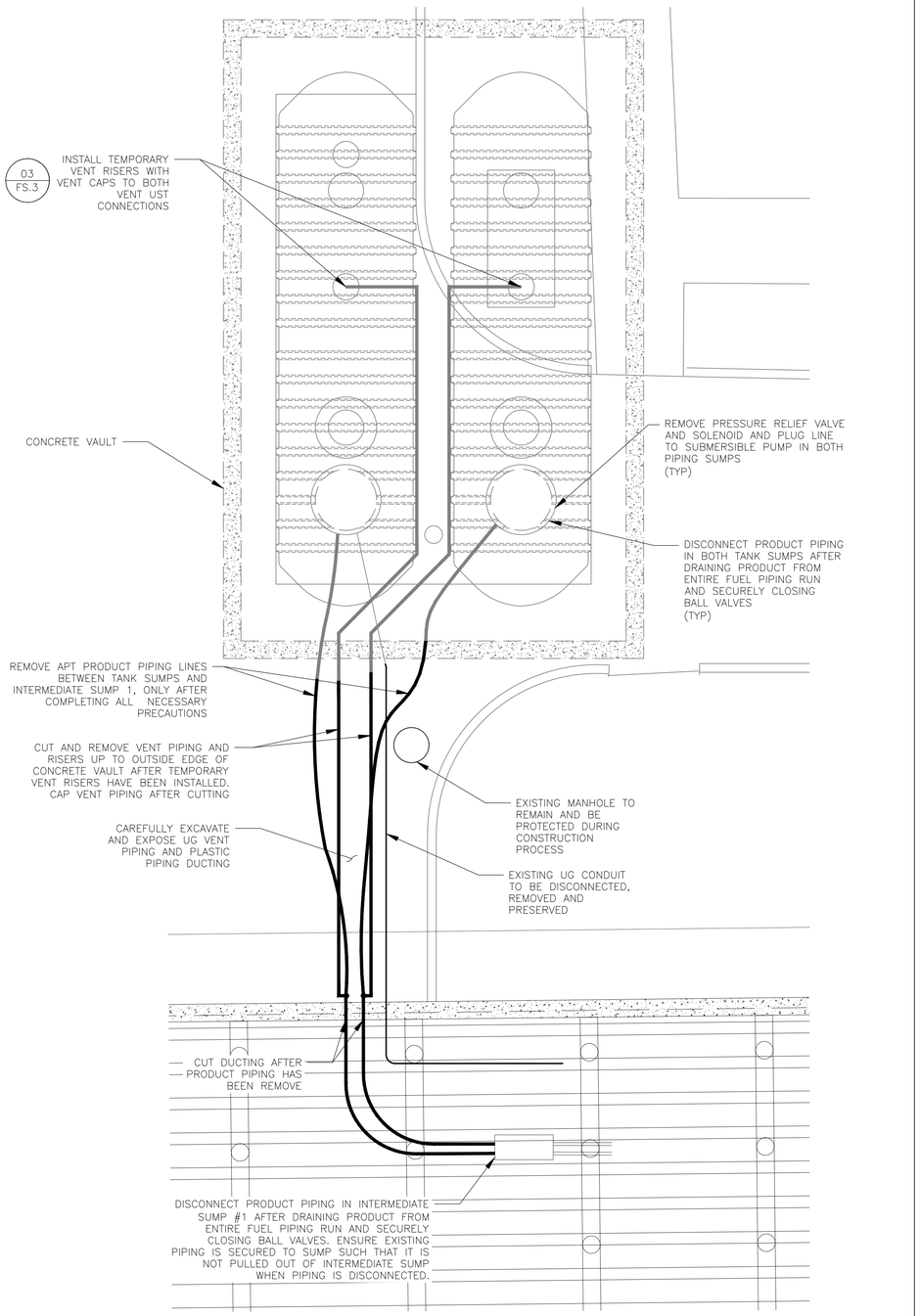
SUBMISSION: BID SET

DRAWING NO.

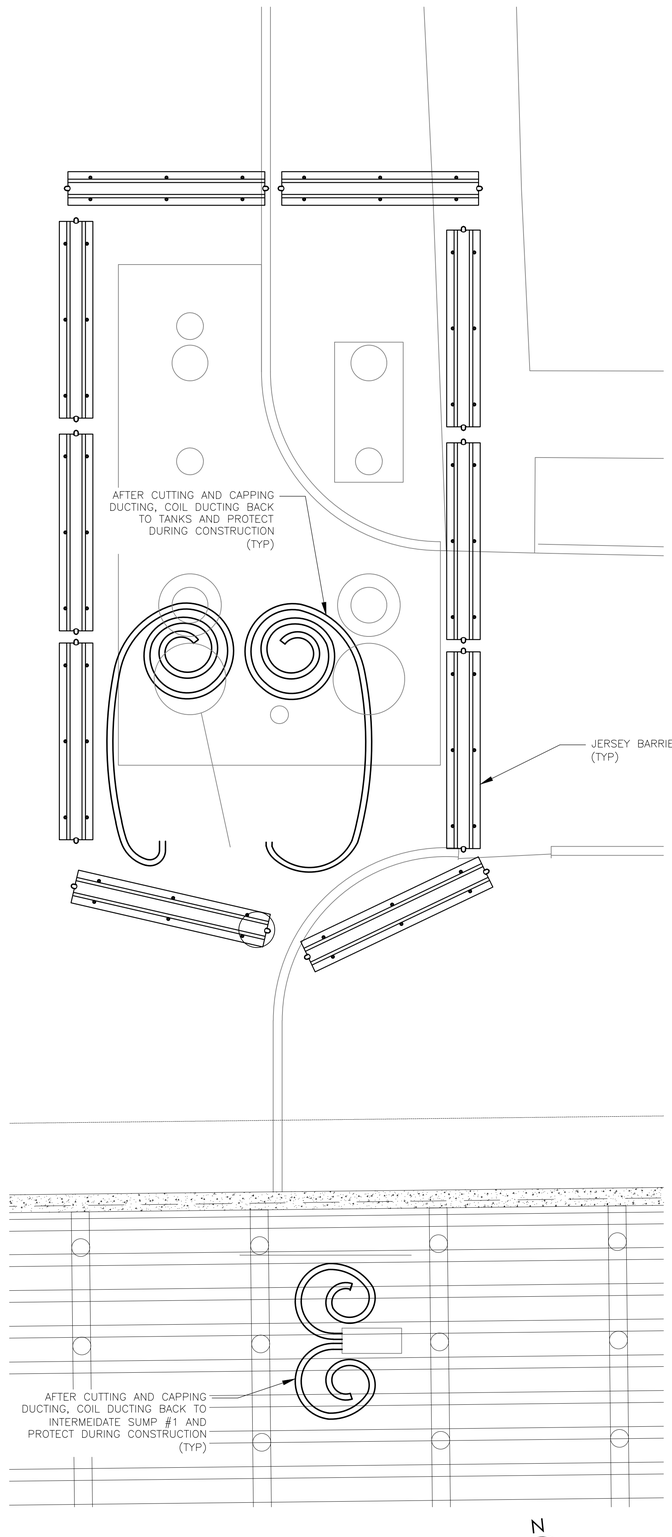
FS-2

IMPORTANT HEALTH AND SAFETY NOTE:

1. BECAUSE THE PROJECT INVOLVES REPAIR OF PIPING SYSTEMS THAT CONTAIN FLAMMABLE AND COMBUSTIBLE LIQUID FUELS, THE CONTRACTOR SHALL TAKE ALL NECESSSARY PRECAUTIONS TO PROVIDE A SAFE WORK ENVIRONMENT AND PREVENT THE RELEASE TO THE ENVIRONMENT OF ANY REGULATED SUBSTANCES OR OTHER CONTAMINANTS.
2. COMPLY WITH ALL OSHA REGULATIONS AND NFPA 326.
3. SPECIFICALLY, THE CONTRACTOR SHALL AT A MINIMUM:
   - 3.1. IDENTIFY ALL SOURCES OF FLAMMABLE VAPORS;
   - 3.2. ISOLATE SOURCES OF FLAMMABLE VAPORS FROM THE WORK AREA (PROVIDING TEMPORARY VENTING AWAY FROM WORK AREA);
   - 3.3. WORK ONLY ON PIPING OR OTHER COMPONENTS THAT HAVE BEEN PROPERTY PURGED OR INERTED;
   - 3.4. TEST REGULARLY TO CONFIRM WITH ABSENCE OF FLAMMABLE VAPORS IN THE WORK AREA; AND
   - 3.5. MINIMIZE OR ELIMINATE ALL SOURCES OF IGNITION FROM THE WORK AREA.

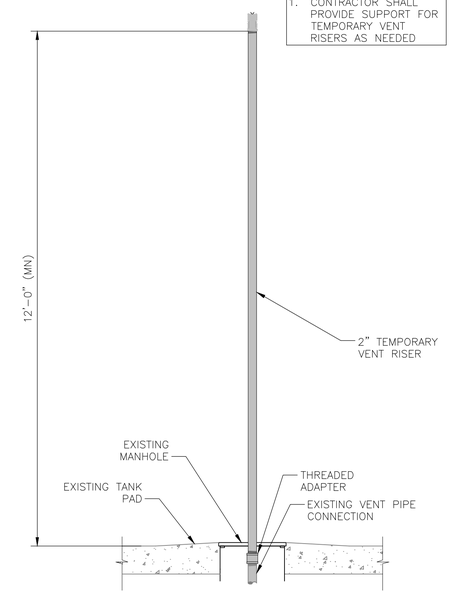


01 FS.3 DEMOLITION PLAN 0 2' 4' 8'



02 FS.3 INTERIM PLAN 0 2' 4' 8'

NOTE:
1. CONTRACTOR SHALL PROVIDE SUPPORT FOR TEMPORARY VENT RISERS AS NEEDED



03 FS.3 TEMPORARY VENT RISER

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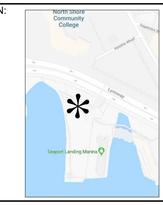
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VETERANS MEMORIAL PARK

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KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
ZACHARY M. RICH
MECHANICAL
No. 58170
REGISTERED
PROFESSIONAL ENGINEER
10/30/2025

DRAWING TITLE:

FUEL SYSTEM DEMO AND INTERIM PLAN

ACCESSION #:105003x

DESIGNED: CLC

DRAWN: AC CHECKED: ZMR

DATE: NOVEMBER 12, 2025

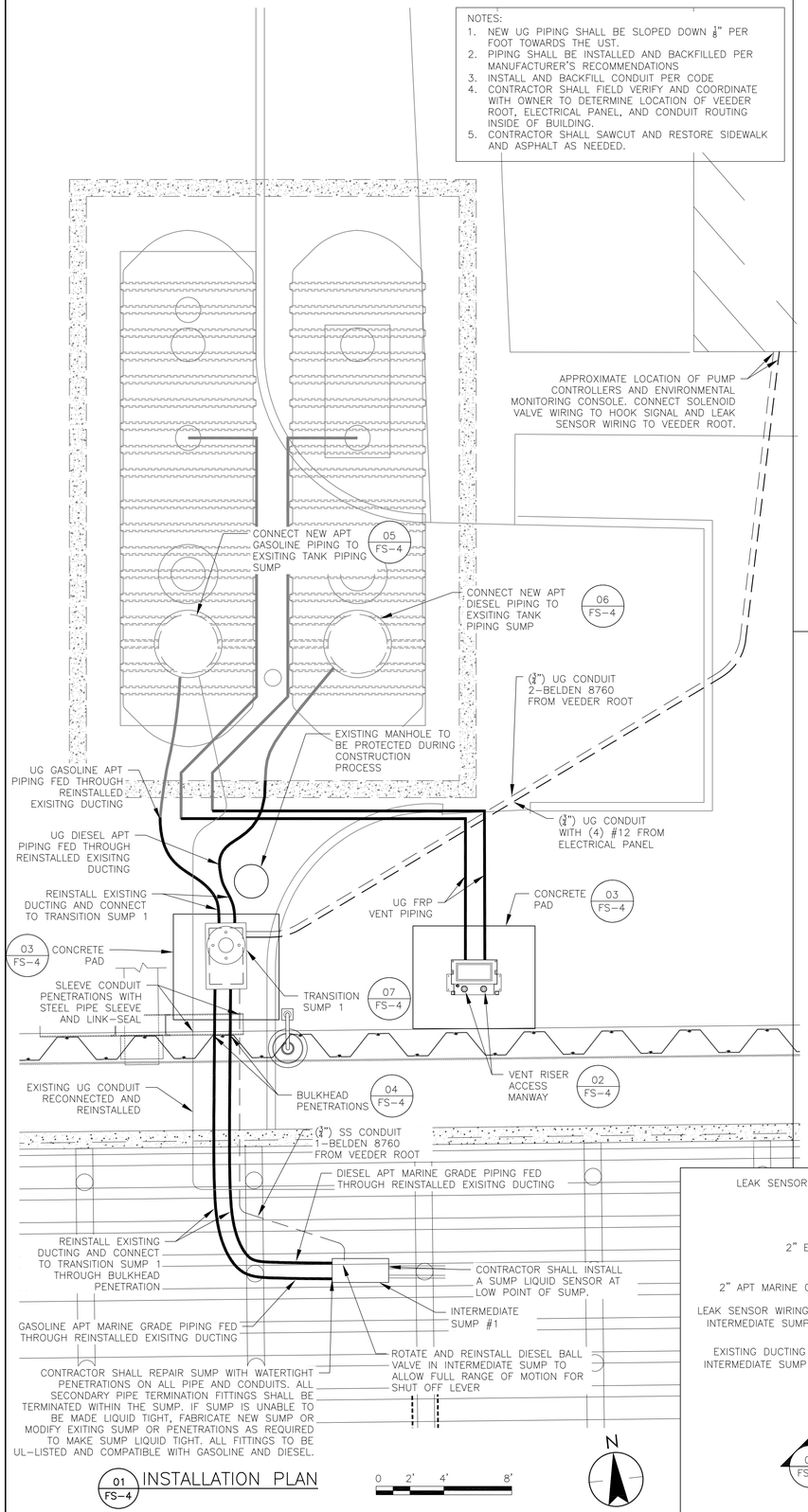
SCALE:

SUBMISSION: BID SET

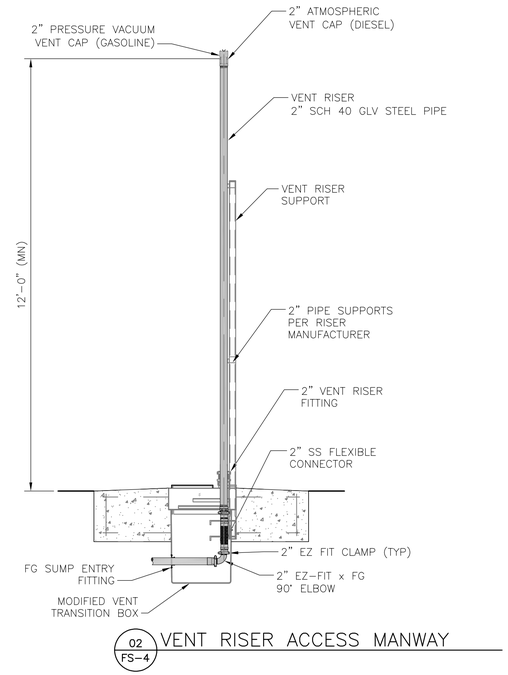
DRAWING NO.

FS-3

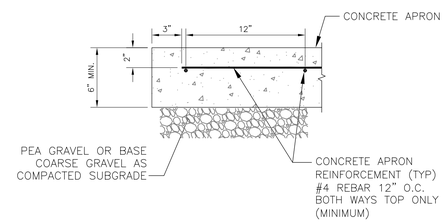
NOTES:
1. NEW UG PIPING SHALL BE SLOPED DOWN ⅛" PER FOOT TOWARDS THE UST.
2. PIPING SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER'S RECOMMENDATIONS
3. INSTALL AND BACKFILL CONDUIT PER CODE
4. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH OWNER TO DETERMINE LOCATION OF VEEDER ROOT, ELECTRICAL PANEL, AND CONDUIT ROUTING INSIDE OF BUILDING.
5. CONTRACTOR SHALL SAWCUT AND RESTORE SIDEWALK AND ASPHALT AS NEEDED.



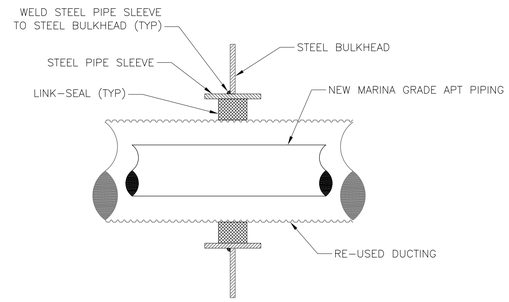
01 FS-4 INSTALLATION PLAN



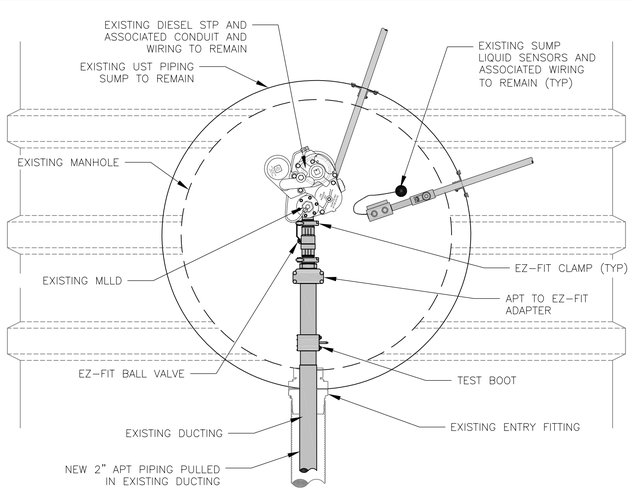
02 FS-4 VENT RISER ACCESS MANWAY



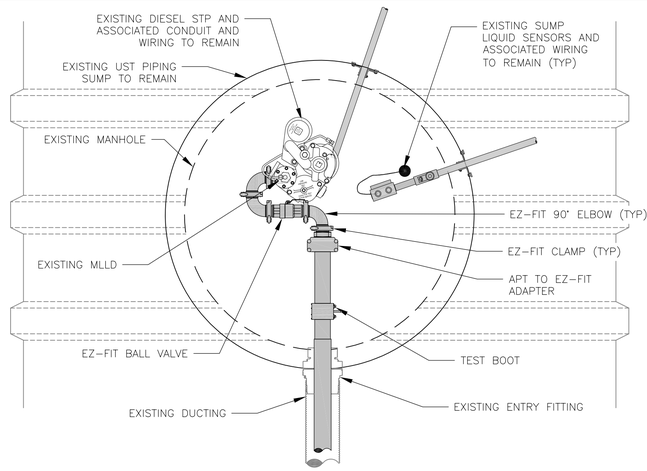
03 FS-4 CONCRETE PAD DETAIL



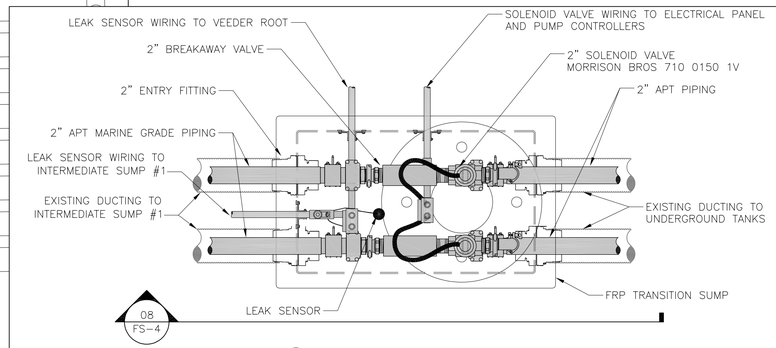
04 FS-4 BULKHEAD PENETRATION DETAIL



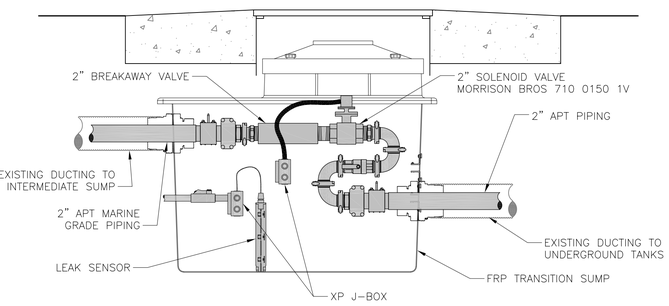
05 FS-4 GASOLINE PIPING SUMP DETAIL



06 FS-4 DIESEL PIPING SUMP DETAIL



07 FS-4 TRANSITION SUMP 1 PLAN



08 FS-4 TRANSITION SUMP 1 ELEVATION

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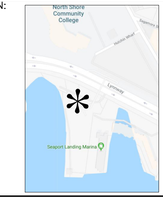
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WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
ZACHARY M. RICH
MECHANICAL
No. 58170
REGISTERED
PROFESSIONAL ENGINEER
10/30/2025

DRAWING TITLE:

FUEL SYSTEM INSTALLATION PLAN AND DETAILS

ACCESSION #:105004x

DESIGNED: CLC

DRAWN: AC CHECKED: ZMR

DATE: NOVEMBER 12, 2025

SCALE:

SUBMISSION: BID SET

DRAWING NO.

FS-4

PROJECT NOTES:

DESIGN CRITERIA:

1. THE COMPLETED STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE OF THE STATE OF MASSACHUSETTS.

2. THE COMPLETED STRUCTURE HAS BEEN DESIGNED TO WITHSTAND THE FOLLOWING DESIGN LIVE LOADS APPLIED IN CONJUNCTION WITH DESIGN DREDGE/MUDLINE ELEVATIONS INDICATED ON THE CONTRACT DRAWINGS:

   LIVE LOADS:
   DESIGN LIVE LOADS: 100 PSF UNIFORM LOAD

   WIND LOADS: PER ASCE 7 - 10
   BASIC WIND SPEED: 118 MPH
   BUILDING EXPOSURE: D
   BUILDING CATEGORY: I
   BUILDING IMPORTANCE FACTOR 1.0

   SEISMIC LOADS: PER ASCE 7 - 10
   SITE CLASS E
   SPECTRAL RESPONSE ACCELERATIONS Ss 0.232g
   S1 0.071g
   SMs 0.580g
   SM1 0.250g
   SPECTRAL RESPONSE ACCELERATIONS SDs 0.387g
   SD1 0.166g

3. DESIGN WAVE HEIGHTS AND TIDAL CURRENT VELOCITIES TAKEN FROM THE WOODS HOLE REPORT ENTITLED, LYNN HARBOR WATERFRONT COASTAL PROCESSES ASSESSMENT, DATED MAY 2019.

WAVE PERIOD	7.2 SECONDS
AVERAGE WIND-GENERATED WAVES	APPROX. WAVE HEIGHT = 0.75 FT
AVERAGE OCEAN SWELL WAVES	APPROX. WAVE HEIGHT = 0.98 FT
DESIGN WAVE / STORM WIND-GENERATED WAVES	APPROX. WAVE HEIGHT = 2.90 FT
STORM OCEAN SWELL WAVES	APPROX. WAVE HEIGHT = 2.30 FT
PEAK TIDAL VELOCITY OUTGOING TIDES	APPROX. 2.7 FEET PER SECOND
PEAK TIDAL VELOCITY INCOMING TIDES	APPROX. 2.7 FEET PER SECOND

4. DESIGN BASED ON RETURN PERIOD STORM LEVELS ASSOCIATED WITH THE YEAR 2070, 50 YEAR STORM EVENT TAKEN FROM MODEL OUTPUT OBTAINED FROM THE MASSACHUSETTS COASTAL FLOOD RISK MODEL (MC-FRM) AND PROVIDED BY WOODS HOLE GROUP AS FOLLOWS:

BENCHMARK / RETURN PERIOD	YEAR 2070 (NAVD88)
MEAN TIDE LINE (MTL)	3.89 FT
MEAN HIGH WATER (MHW)	8.47 FT
MEAN HIGHER HIGH WATER (MHHW)	8.91 FT
10-YEAR RETURN PERIOD	11.5 FT
50-YEAR RETURN PERIOD	12.9 FT
100-YEAR RETURN PERIOD	13.8 FT

5. COORDINATES, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983, (2011), Epoch 2010.00, BASED ON THE KeyNet GPS VIRTUAL REFERENCE SYSTEM (VRS).

6. ELEVATIONS, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) BASED ON THE KeyNet GPS VIRTUAL REFERENCE SYSTEM (VRS) NETWORK.

7. CONTOURS ARE IN FEET, AND REFER TO ELEVATIONS IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

8. TIDAL DATA IS PER NOAA AVERAGES BASED ON THE 1983-2001 TIDAL EPOCH AND NOT GUARANTEED TO REPRESENT CONDITIONS WHICH MAY OCCUR DURING CONSTRUCTION. ACTUAL WATER LEVELS WILL VARY FROM LEVELS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN ESTIMATES OF WATER LEVELS WHICH MAY OCCUR DURING CONSTRUCTION.

9. TOPOGRAPHY & HYDROGRAPHIC SURVEYS ALONG WITH EXISTING CONDITIONS, SITE FEATURES, AND UTILITIES BASED ON INFORMATION PROVIDED BY BROWN, RICHARDSON, & ROWE, INC. AND SURVEYS BY SURVEYING AND MAPPING CONSULTANTS ON OCTOBER 2018 AND FOTH INFRASTRUCTURE & ENVIRONMENTAL, INC. ON SEPTEMBER 5, 2018.

10. SUBSURFACE UTILITY LINES AND FEATURES, AS SHOWN HEREON, WERE COMPILED FROM FIELD EVIDENCE OR AVAILABLE RECORD INFORMATION (SEE REFERENCES ON SHEET V-1 AND V-2), AND THEIR LOCATIONS ARE ONLY APPROXIMATE. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD.

6. PROPERTY LINES & WETLANDS OBTAINED FROM THE MA GIS DATABASE.

7. THE ENTIRE PROJECT SITE WORK AREA IS WITHIN LAND SUBJECT TO COASTAL STORM FLOWAGE. FEMA FLOOD ZONE VE (EL. 18) REFERENCED FROM MAP# 25009C0529G DATED 7/16/14.

8. THE HISTORIC HIGH WATER (HHW) LOCATION, AS SHOWN ON THE PLAN ARE FROM MA GIS DATABASE TIDELANDS JURISDICTION (M.G.L. Ch 91) DATALAYERS, AS DETERMINED BY MASSACHUSETTS CHAPTER 91 MAPPING PROJECT, PREPARED BY BSC GROUP, 2006.

9. COASTAL BANK LINE PROVIDED BY LEC ENVIRONMENTAL CONSULTANTS, INC. ON OCTOBER 25, 2018. (WETLAND PROTECTION PROGRAM POLICY 92-1, STANDARD D, FIGURE 4).

10. INFORMATION ON EXISTING BOARDWALK/WHARF STRUCTURES, PAVILION SHADE STRUCTURE AND RIP-RAP STONE REVETMENTS (SLOPE PROTECTION) TAKEN FROM THE DRAWING SET ENTITLED, "LYNN HERITAGE STATE PARK, PHASE 3A - LYNN, MASSACHUSETTS" BY HAYDEN, HARDING & BUCHANAN, INC. CONSULTING ENGINEERS, DATED SEPTEMBER, 1983

11. THE STRUCTURES HAVE BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION IS COMPLETE. THE STABILITY OF THE STRUCTURES PRIOR TO COMPLETION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THIS RESPONSIBILITY EXTENDS TO RELATED ASPECTS OF THE CONSTRUCTION ACTIVITY INCLUDING, BUT NOT LIMITED TO, ERECTION METHODS, ERECTION SEQUENCE, CONNECTIONS, TEMPORARY BRACING, FORMS, SHORING, USE OF EQUIPMENT, AND SIMILAR CONSTRUCTION PROCEDURES. REVIEW OF CONSTRUCTION BY THE OWNER AND ENGINEER OF RECORD IS FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS ONLY. LACK OF COMMENT BY THE OWNER AND ENGINEER OF RECORD WITH REGARD TO CONSTRUCTION PROCEDURES SHALL NOT BE INTERPRETED AS APPROVAL OR ACCEPTANCE OF SUCH PROCEDURES.

GENERAL CONDITIONS:

1. NO GUARANTEE TO THE ACCURACY OF THE REFERENCE DOCUMENTS IS PROVIDED HEREIN AND THE CONTRACTOR SHALL RELY ON HIS OWN FIELD VERIFICATION FOR ITEMS SO REQUIRED.

2. SECTIONS, DETAILS, NOTES, DIMENSIONS AND CONDITIONS ARE APPLICABLE AT ANY OTHER LOCATION WHERE CONDITIONS AND DETAIL ARE SIMILAR BUT ARE NOT SPECIFICALLY NOTED AS SUCH OR ARE NOT SHOWN.

3. THE CONTRACTOR SHALL PERFORM THE WORK IN A MANNER THAT DOES NOT IMPEDE THE OWNER'S OPERATIONS ON SITE OR THE OWNER'S ON SITE OPERATING EQUIPMENT.

4. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND FABRICATION OF CONSTRUCTION MATERIALS .

5. IF, DURING THE PERFORMANCE OF THE WORK, THE CONTRACTOR FINDS A CONFLICT, ERROR, OR DISCREPANCY IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SO REPORT TO THE ENGINEER OF RECORD IN WRITING AT ONCE. BEFORE PROCEEDING WITH THE WORK AFFECTED THEREBY, THE CONTRACTOR SHALL OBTAIN A WRITTEN INTERPRETATION OR CLARIFICATION FROM THE ENGINEER OF RECORD. WORK DONE BEFORE THE ENGINEER OF RECORD RENDERS HIS DECISION IS AT THE CONTRACTOR'S SOLE RISK.

6. THE WORK SHALL BE PERFORMED IN A GENERAL SEQUENCE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW, IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE SEQUENCES AND PROCEDURES TO BE USED.

7. THE CONTRACTOR SHALL FURNISH AND COORDINATE PLANT, LABOR, SUPERVISION, MATERIALS, EQUIPMENT AND APPLIANCES FOR DEMOLITION AND/OR CONSTRUCTION WORK IN CONNECTION WITH THE DEMOLITION AND/OR CONSTRUCTION OF THE MARINE FACILITIES.

8. THE OWNER HAS SECURED CERTAIN PERMITS REQUIRED BY FEDERAL, AND STATE AUTHORITIES FOR THE PROPOSED ACTIVITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THE WORK IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE PERMITS. THE CONTRACTOR SHALL POST COPIES OF THE PERMITS AT THE SITE THROUGHOUT THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN PERMITS ASSOCIATED WITH THE LEGAL DISPOSAL OF CONSTRUCTION DEBRIS. THE CONTRACTOR SHALL SECURE REQUIRED LOCAL AUTHORIZATIONS AND PERMITS.

9. SPECIAL INSPECTION REQUIREMENTS PER LOCAL AND/OR STATE BUILDING CODES SHALL BE FULFILLED AND SHALL BE COORDINATED BY THE OWNER. THE CONTRACTOR SHALL INFORM THE OWNER OF THE PROGRESS OF WORK AND PROVIDE ADEQUATE NOTICE AS TO WHEN SPECIAL INSPECTIONS ARE TO OCCUR SUCH AS TO NOT DELAY THE SCHEDULE.

10. THE CONTRACTOR SHALL FURNISH MATERIALS FOR INSTALLATION IN THE COMPLETED WORK AS SPECIFIED HEREINAFTER. THE CONTRACTOR SHALL HANDLE THESE MATERIALS AS THEY ARE DELIVERED TO THE SITE OR OFF-SITE WORK AREAS, AND SHALL STORE THEM IN A DESIGNATED STORAGE AREA.

11. THE CONTRACTOR WILL INDEMNIFY AND SAVE HARMLESS THE OWNER AND ENGINEER OF RECORD FROM AND AGAINST ALL LOSSES AND ALL CLAIMS, DEMANDS, PAYMENTS, SUITS, ACTIONS, RECOVERIES, AND JUDGMENTS OF EVERY NATURE AND DESCRIPTION BROUGHT OR RECOVERED AGAINST THE OWNER AND ENGINEER OF RECORD BY REASON OF ANY ACT OR OMISSION OF THE CONTRACTOR, OR OF ANY SUBCONTRACTOR TO THE CONTRACTOR, OR OF ANY PERSON DIRECTLY OR INDIRECTLY EMPLOYED BY THE CONTRACTOR OR ANY SUCH SUBCONTRACTOR, IN THE PERFORMANCE OF ANY WORK FOR, OR THE RENDERING OF ANY SERVICES TO, THE OWNER.

12. THE CONTRACTOR AGREES THAT, AT ITS OWN COST AND EXPENSE, IT SHALL PROCURE AND CONTINUE IN FORCE; INSURANCE COVERAGE AS REQUIRED BY THE OWNER. SUCH INSURANCE SHALL BE WRITTEN BY A COMPANY OR COMPANIES AUTHORIZED TO ENGAGE IN THE BUSINESS OF GENERAL LIABILITY INSURANCE IN THE STATE IN WHICH THE DEMISED PREMISES ARE LOCATED, AND THERE SHALL BE DELIVERED TO THE OWNER WITH THE BID CUSTOMARY CERTIFICATES EVIDENCING SUCH PAID-UP INSURANCE, WHICH CERTIFICATES ARE TO BE ISSUED BY THE INSURANCE COMPANIES. GOOD AND RESPONSIBLE COMPANIES, REASONABLY ACCEPTABLE TO THE OWNER, SHALL WRITE SUCH INSURANCE.

13. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF LOCATIONS, DIMENSIONS, AND LEVELS AND NO PLEA AS TO INSTRUCTIONS OR ORDER RECEIVED FROM OTHER SOURCES OTHER THAN INFORMATION CONTAINED ON CONTRACT DRAWINGS, SPECIFICATIONS OR IN WRITTEN ORDERS OF THE OWNER OR ENGINEER OF RECORD SHALL JUSTIFY DEPARTURE FROM THE DIMENSIONS AND ELEVATIONS REQUIRED BY THE CONTRACT DRAWINGS.

14. THE CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE SITE, VERIFYING THE SAME WITH THE CONTRACT DRAWINGS AND EXISTING FACILITIES, AND WILL BE HELD RESPONSIBLE FOR THE PROPER FIT AND ALIGNMENT OF COMPLETED WORK IN POSITION.

15. THE CONTRACTOR SHALL GUARANTEE TO THE OWNER MATERIALS AND WORKMANSHIP AGAINST ORIGINAL DEFECTS, OR AGAINST INJURY FROM PROPER AND USUAL WEAR WHEN USED FOR THE PURPOSE INTENDED, FOR TWELVE (12) MONTHS AFTER DATE OF FINAL PAYMENT CERTIFICATIONS, AND SHALL MAINTAIN ITEMS IN PERFECT CONDITION DURING THE PERIOD OF GUARANTEE. DEFECTS APPEARING DURING THE PERIOD OF GUARANTEE SHALL BE MADE GOOD BY THE CONTRACTOR AT HIS EXPENSE UPON DEMAND OF THE OWNER, IT BEING REQUIRED THAT WORK SHALL BE IN PERFECT CONDITION WHEN THE PERIOD OF GUARANTEE SHALL HAVE ELAPSED. IN THE EVENT OF DEFAULT BY THE CONTRACTOR, THE COMPANY SHALL HAVE THE RIGHT TO MAKE GOOD DEFECTS AND BILL THE CONTRACTOR COST PLUS 15% FOR ADMINISTRATION FEES.

16. AT THE CONTRACTOR'S EXPENSE, THE CONTRACTOR'S WORKING AREAS SHALL BE CLEANED BY HIM ON A DAY-TO-DAY BASIS, WITH RUBBISH REMOVED FROM THE SITE AND WORK AREAS CLEANED AT THE END OF EACH DAY. AT FINAL COMPLETION OF WORK THE CONTRACTOR SHALL LEAVE THE ENTIRE PREMISES, WITHIN THE SITE OF HIS OPERATIONS, CLEAN AND FREE FROM THE RUBBISH RESULTING FROM HIS CONSTRUCTION OPERATIONS.

17. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AND MAINTAIN UTILITIES HE DEEMS NECESSARY TO AFFECT THE WORK.

18. THE CONTRACTOR SHALL PROVIDE FIELD ENGINEERING SERVICES REQUIRED FOR PROPER COMPLETION OF THE WORK INCLUDING, BUT NOT NECESSARILY LIMITED TO: ESTABLISHING AND MAINTAINING LINES AND LEVELS; STRUCTURAL DESIGN OF SHORES, FORMS, AND SIMILAR ITEMS PROVIDED BY THE CONTRACTOR AS PART OF HIS MEANS AND METHODS OF CONSTRUCTION.

19. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AT HIS EXPENSE REQUIRED FIRE PROTECTION SYSTEMS AND DEVICES, THROUGHOUT THE PERIOD OF CONSTRUCTION, AS NECESSARY TO SAFELY PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS. .

20. THE CONTRACTOR SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR PROTECTION OF THE ENVIRONMENT DURING THE WORK. ENSURE THAT PERSONNEL ARE PROPERLY TRAINED AND THAT SUFFICIENT EQUIPMENT AND MATERIALS ARE READILY AVAILABLE FOR USE IF REQUIRED. ABIDE BY STATE AND FEDERAL SPILL REPORTING REQUIREMENTS.

21. THE OWNER RESERVES THE RIGHT TO CHARGE THE CONTRACTOR FOR ADDITIONAL ENGINEERING SERVICES IF REQUIRED DUE TO THE CONTRACTOR'S ACTIONS OR INACTIONS.

22. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF HIS OPERATIONS. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY, OR LOSS TO PERSONS EMPLOYED BY THE CONTRACTOR IN PERFORMANCE OF THE WORK, AND PERSONS NEARBY THAT MAY BE AFFECTED BY THE CONTRACTOR'S OPERATIONS OR THE WORK, INCLUDING EQUIPMENT AND MATERIALS WHICH WILL BE INCORPORATED IN THE WORK, AND OTHER PROPERTIES AND STRUCTURES AT THE SITE, OR ON ADJACENT PROPERTIES.

23. OBSTRUCTIONS ARE DEFINED AS UNFORESEEN OBJECTS, WHICH IMPEDE PROGRESS. OBJECTS, WHICH ARE MADE KNOWN TO THE CONTRACTOR, WILL NOT BE CONSIDERED TO BE OBSTRUCTIONS. NOTIFY THE ENGINEER OF RECORD IMMEDIATELY UPON ENCOUNTERING OBSTRUCTIONS. NO CONSIDERATION WILL BE GIVEN FOR ADDITIONAL COMPENSATION ON THIS ACCOUNT WITHOUT THIS TIMELY NOTIFICATION.

24. NO SUBSTITUTIONS WILL BE PERMITTED FOR MATERIALS SPECIFIED HEREIN UNLESS THE CONTRACTOR RECEIVES WRITTEN AUTHORIZATION FROM THE OWNER / ENGINEER OF RECORD.

SELECTIVE DEMOLITION AND DISPOSAL

1. SELECTIVE DEMOLITION AND DISPOSAL SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL PERMIT AND BUILDING CODE REQUIREMENTS.

2. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THOSE STRUCTURES AND DERELICT COMPONENTS AS INDICATED ON THE DRAWINGS.

3. SELECTIVE DEMOLITION INCLUDES BUT IS NOT LIMITED TO REMOVAL AND REUSE (WHERE POSSIBLE) OF EXISTING MATERIALS, UTILITIES, AND OTHER COMPONENTS ESSENTIAL FOR A COMPLETE PROJECT.

4. THE CONTRACTOR SHALL TAKE REASONABLE CARE IN REMOVING ELEMENTS SELECTED TO BE DEMOLISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. DAMAGE OR DESTRUCTION BY THE CONTRACTOR TO EXISTING ELEMENTS DESIGNATED TO REMAIN SHALL BE REPAIRED OR REPLACED IN-KIND AT THE DISCRETION OF THE OWNER AT NO ADDITIONAL COST.

5. ITEMS TO BE REMOVED AND REUSED SHALL BE PLACED IN A STAGING AREA ACCESSIBLE FOR INSPECTION BY THE OWNER.

6. PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION, THE CONTRACTOR SHALL SUBMIT A DISPOSAL PLAN FOR ITEMS TO BE DEMOLISHED. DEMOLITION MATERIAL DESIGNATED BY THE OWNER TO BE REMOVED FROM THE SITE SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE DEBRIS DISPOSAL PLAN SHALL ACKNOWLEDGE THIS OWNERSHIP AND SHALL IDENTIFY THE MEANS AND METHODS AND FINAL DISPOSITION FOR DISPOSAL MATERIALS.

7. PRIOR TO COMMENCEMENT OF DEMOLITION, THE CONTRACTOR SHALL CLEARLY MARK THE LIMITS OF THE DEMOLITION FOR REVIEW AND APPROVAL BY THE OWNER.

8. COMPLETELY REMOVE ITEMS DESIGNATED LEAVING SURFACES CLEAN, SOUND, AND READY TO RECEIVE NEW MATERIALS AS SPECIFIED IN THE CONTRACT DOCUMENTS.

9. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING THE COURSE OF DEMOLITION.

10. THE CONTRACTOR SHALL SUBMIT A DISPOSAL CERTIFICATE TO THE OWNER'S REPRESENTATIVE CERTIFYING LEGAL AND PROPER DISPOSAL.

EXCAVATING, BACKFILLING, AND COMPACTION:

1. STRUCTURAL FILL SHALL CONSIST OF BROKEN OR CRUSHED STONE, OR CRUSHED GRAVEL, OR MIXTURES THEREOF. BROKEN OR CRUSHED STONE SHALL CONSIST OF WELL-GRADED, SOUND, TOUGH, DURABLE STONE. CRUSHED GRAVEL SHALL CONSIST OF WELL-GRADED, SOUND, TOUGH, DURABLE PARTICLES OF CRUSHED OR UNCRUSHED GRAVEL FREE FROM SOFT, THIN, ELONGATED OR LAMINATED PIECES AND ORGANIC OR OTHER DELETERIOUS SUBSTANCES. STRUCTURAL FILL SHALL WELL GRADED WITH 100% MASS PASSING THE 90 MM (3.5") SQUARE MESH SIEVE. SUBMIT AN INDEPENDENT GRADATION ANALYSIS AND MODIFIED PROCTOR TEST FOR ENGINEER'S REVIEW. INCLUDE A REPRESENTATIVE SAMPLE OF THE FILL MATERIAL WITH THE SUBMITTAL.

2. THE CONTRACTOR SHALL EXCAVATE, BACKFILL, COMPACT, AND GRADE THE SITE TO THE ELEVATIONS AND LIMITS SHOWN AND AS NEEDED TO MEET THE REQUIREMENTS OF THE CONSTRUCTION.

3. STRUCTURAL FILL SHALL BE PLACED IN LAYERS NOT MORE THAN 8" IN LOOSE DEPTH. DO NOT PLACE FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, CONTAINING FROST OR ICE. PLACE FILL MATERIALS EVENLY ADJACENT TO STRUCTURES, TO REQUIRED ELEVATIONS. TAKE CARE TO PREVENT WEDGING ACTION OF BACKFILL AGAINST STRUCTURES BY CARRYING THE MATERIAL UNIFORMLY AROUND THE STRUCTURE TO APPROXIMATELY THE SAME ELEVATION IN EACH LIFT.

4. GRADE THE AREAS ADJACENT TO BUILDINGS TO ACHIEVE DRAINAGE AWAY FROM THE STRUCTURES, AND TO PREVENT PONDING.

TEMPORARY WORK:

1. LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PERFORM THE WORK THAT, UPON COMPLETION, ARE NOT A PART OF THE WORK, SHALL BE FURNISHED, INSTALLED, AND SUBSEQUENTLY REMOVED FROM THE SITE BY THE CONTRACTOR.

2. TEMPORARY WORK SHALL BE SUBJECT TO THE REQUIREMENTS OF THE STATE AND APPLICABLE LOCAL BUILDING CODES.

3. DURING EXECUTION OF THE WORK, THE CONTRACTOR IS REQUIRED TO INSTALL AND MAINTAIN REQUIRED SEDIMENTATION AND EROSION CONTROL MEASURES TO PROTECT ADJACENT WATERWAYS, STREETS, AND PROPERTIES. MEASURES INCLUDE BUT ARE NOT LIMITED TO TEMPORARY BERMS, HAY BALES, SILT FENCES, CONTAINMENT BOOMS, AND TURBIDITY CURTAINS. IN ACCORDANCE WITH STATE REGULATORY AUTHORIZATIONS, THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN TEMPORARY TURBIDITY CURTAINS DURING CONSTRUCTION. TEMPORARY MATERIALS AND EQUIPMENT SHALL CONFORM TO REQUIREMENTS FOR TEMPORARY WORK.

DATUM OFFSETS

MLLW	NAVD88	
12.12	6.80	HTL
9.94	4.62	MHHW
9.50	4.18	MHW
5.32	0	
0.34	−4.98	MLW
0	−5.32	MLLW
−0.78	−6.10	LYNN MA CITY BASE

OFFSETS TAKEN FROM VDATUM VERSION 3.8
LAT: 42.45763
LONG: −70.94337

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65 FRANKLIN ST, 4TH FLOOR
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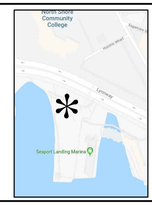
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

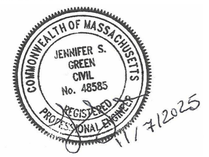
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

PROJECT NOTES
SHEET 1 OF 2

ACCESSION #:105005x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

G-1

STEEL SHEET PILES:

1. STEEL SHEET PILES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A572 WITH A MINIMUM 50 KSI YIELD STRENGTH.
2. STEEL SHEET PILES SHALL BE ARBED AZ 18 -700 X 25 FT LONG OR EQUIVALENT WITH EQUAL OR GREATER SECTION PROPERTIES, AS ACCEPTED BY THE ENGINEER.
3. STEEL SHEET PILES SHALL BE COATED FOR THE TOP 10-FEET ON BOTH SIDES.
4. SURFACES SHALL BE PREPARED IN STRICT ACCORDANCE WITH THE PROTECTIVE COATING SYSTEM MANUFACTURERS WRITTEN INSTRUCTIONS. SURFACES ARE TO BE ABRASION-BLASTED TO A NEAR-WHITE SURFACE CLEANLINESS IN ACCORDANCE WITH SSPC-SP-10. BLAST PROFILE ON STEEL SHALL BE 1.5 TO 2.5 MILS IN DEPTH AND BE OF A SHARP, JAGGED NATURE AS OPPOSED TO A "PEEN" PATTERN (FROM SHOT BLASTING). SURFACES MUST BE SOUND, DRY, CLEAN, FREE OF OIL, GREASE, DIRT, MILDEW, FORM RELEASE AGENTS, CURING COMPOUNDS, LOOSE AND FLAKING PAINT, GRIT DUST, AND OTHER FOREIGN SUBSTANCES. ROTO BLASTED SURFACES ARE NOT ACCEPTABLE.
5. MATERIAL USED FOR FACTORY EPOXY COATING OF ALL SCHEDULED SURFACES SHALL BE BAR_RUST 235 MULTI_PURPOSE EPOXY COATING AS MANUFACTURED BY DEVOE COATINGS OR EQUIVALENT ACCEPTED BY THE ENGINEER OF RECORD.
6. THE PROTECTIVE COATING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. COATING IS TO BE APPLIED IN TWO COATS TO ACHIEVE AN OVERALL DRY FILM THICKNESS OF 16 MILS
7. FIELD TOUCH-UP COATING SHALL BE IDENTICAL TO FACTORY COATING AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
8. ALL HOLIDAYS OR OTHER IMPERFECTIONS IN THE COATING SHALL BE REMOVED OR REPAIRED AT THE CONTRACTORS EXPENSE PRIOR TO FINAL ACCEPTANCE OF THE WORK.
9. SURFACES THAT WILL BE EXPOSED TO SUNLIGHT AND ABOVE THE WATER SHALL BE COATED WITH A MINIMUM OF 3 MILS OF A COMPATIBLE POLYURETHANE TOP COAT. COLOR SHALL BE BLACK

STEEL MICRO-PILES:

1. MICRO-PILE CASING MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH API N80, TYPE 1 WITH A MINIMUM YIELD STRENGTH OF 80 KSI.
2. MICROPILES SHALL BE DESIGNED, INSTALLED AND TESTED IN ACCORDANCE WITH FHWA NHI-05-039, MICRO-PILE DESIGN AND CONSTRUCTION.
3. MICRO-PILES SHALL BE INSTALLED TO BEAR ON SOUND BEDROCK TO DEVELOP A MINIMUM ULTIMATE COMPRESSION CAPACITY OF 150 KIPS AND AN MINIMUM ULTIMATE TENSILE CAPACITY OF 30 KIPS.
4. PERFORM PROOF TESTING OF PILES AT TWO (2) LOCATIONS INDICATED ON THE DRAWINGS. PERFORM COMPRESSION LOAD TESTING IN ACCORDANCE WITH ASTM D1143, TENSION LOAD TESTING IN ACCORDANCE WITH ASTM D3689.
5. ULTIMATE GEOTECHNICAL CAPACITY OF MICROPILES SHALL MEET FHWA PUBLICATION REQUIREMENTS. BOND LENGTH SHALL BE CONFIRMED BY ON SITE TESTING OF MICRO-PILES.
6. GROUTING SHALL USE NEAT CEMENT WITH A MINIMUM COMPRESSION STRESS OF 4000 PSI AT 28 DAYS.
7. THE LAST, TOP TWO (2) SECTIONS OF PIPE INSTALLED SHALL BE SHOP COATED WITH EPOXY COATING.
8. SURFACES SHALL BE PREPARED IN STRICT ACCORDANCE WITH THE PROTECTIVE COATING SYSTEM MANUFACTURERS WRITTEN INSTRUCTIONS. SURFACES ARE TO BE ABRASION-BLASTED TO A NEAR-WHITE SURFACE CLEANLINESS IN ACCORDANCE WITH SSPC-SP-10. BLAST PROFILE ON STEEL SHALL BE 1.5 TO 2.5 MILS IN DEPTH AND BE OF A SHARP, JAGGED NATURE AS OPPOSED TO A "PEEN" PATTERN (FROM SHOT BLASTING). SURFACES MUST BE SOUND, DRY, CLEAN, FREE OF OIL, GREASE, DIRT, MILDEW, FORM RELEASE AGENTS, CURING COMPOUNDS, LOOSE AND FLAKING PAINT, GRIT DUST, AND OTHER FOREIGN SUBSTANCES. ROTO BLASTED SURFACES ARE NOT ACCEPTABLE.
9. MATERIAL USED FOR FACTORY EPOXY COATING OF ALL SCHEDULED SURFACES SHALL BE BAR_RUST 235 MULTI_PURPOSE EPOXY COATING AS MANUFACTURED BY DEVOE COATINGS OR EQUIVALENT ACCEPTED BY THE ENGINEER OF RECORD.
10. THE PROTECTIVE COATING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. COATING IS TO BE APPLIED IN TWO COATS TO ACHIEVE AN OVERALL DRY FILM THICKNESS OF 15 MILS
11. FIELD TOUCH-UP COATING SHALL BE IDENTICAL TO FACTORY COATING AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
12. ALL HOLIDAYS OR OTHER IMPERFECTIONS IN THE COATING SHALL BE REMOVED OR REPAIRED AT THE CONTRACTORS EXPENSE PRIOR TO FINAL ACCEPTANCE OF THE WORK.
13. SURFACES THAT WILL BE EXPOSED TO SUNLIGHT AND ABOVE THE WATER SHALL BE COATED WITH A MINIMUM OF 3 MILS OF A COMPATIBLE POLYURETHANE TOP COAT. COLOR OF THIS TOP COAT SHALL BE COORDINATED WITH OWNER.

CAST-IN-PLACE CONCRETE:

1. STRUCTURAL CONCRETE SHALL COMPLY WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318-02, PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE (ACI).
2. CONCRETE STEEL REINFORCEMENT SHALL COMPLY WITH THE "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT", ACI 315-92, PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE (ACI).
3. STRUCTURAL CONCRETE SHALL COMPLY WITH THE "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE", ACI 301-99, PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE (ACI).
4. CONCRETE STEEL REINFORCEMENT SHALL CONFORM TO ASTM A 615 GRADE 60 AND SHALL BE EPOXY COATED IN ACCORDANCE WITH ASTM A 775.
5. CONCRETE SHALL BE NORMAL WEIGHT WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS. PORTLAND CEMENT SHALL BE TYPE II. CONCRETE SHALL CONTAIN A MINIMUM OF 6% (±1%) ENTRAINED AIR AND HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.40.
6. UNLESS OTHERWISE SHOWN, LOCATE REINFORCING BARS WITH 3 INCH CLEAR DIMENSIONS TO FACE OF CONCRETE.
7. CONCRETE ACCESSORIES MUST BE ADEQUATE TO MAINTAIN REINFORCING ACCURATELY IN PLACE AND BE NON-CORROSIVE, NON-STAINING TYPE.
8. LAP BAR REINFORCEMENT IN CONCRETE ELEMENTS IN COMPLIANCE WITH ACI 318 FOR EPOXY COATED BARS, UNLESS OTHERWISE NOTED.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL COMPLY WITH THE "STEEL CONSTRUCTION MANUAL", FOURTEENTH EDITION, PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
2. WELDING SHALL CONFORM TO THE "STRUCTURAL WELDING CODE - STEEL", AS ADOPTED BY THE AMERICAN WELDING SOCIETY (AWS D1.1). A WELDER CERTIFIED IN ACCORDANCE WITH AWS STANDARDS SHALL PERFORM WELDING.
3. WELDING ELECTRODES SHALL BE E70XX AND COMPLY WITH AWS A5.1 AND AWS A5.5.
4. STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A 572, GRADE 50. STEEL TUBES SHALL CONFORM TO ASTM A500, GRADE B. STEEL PIPES SHALL CONFORM TO ASTM A 53, GRADE B OR ASTM A 500, GRADE B. STEEL PLATES SHALL CONFORM TO ASTM A588 Fy = 50 KSI.

   STEEL HARDWARE:

PIPE:	ASTM A53 GRADE B, SCHEDULE 40
ANCHOR BOLTS:	ASTM F 1554 Gr. 55
HIGH STRENGTH STRUCTURAL BOLTS:	ASTM F3125 GR. A325, W/ HEXAGONAL HEADS
NUTS:	ASTM A563
WASHERS:	ASTM F436

5. HIGH-STRENGTH BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM F3125 GR. A 325 BOLTS".
6. GALVANIZING SHALL CONFORM TO ASTM A 123 OR ASTM A 153, AS APPLICABLE.
7. STEEL SHAPES AND PLATES, SHALL BE HOT DIPPED GALVANIZED, UNLESS NOTED OTHERWISE.
8. BOLTED CONNECTIONS SHALL USE 1" DIAMETER A 325 HIGH-STRENGTH BOLTS UNLESS OTHERWISE NOTED.
9. CONNECTIONS SHALL BE DESIGNED AND DETAILED BY THE STEEL FABRICATOR EXCEPT FOR THOSE SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS.

TIMBER:

1. VISUALLY GRADED STRUCTURAL LUMBER AND WOOD CONSTRUCTION SHALL CONFORM TO ASTM D245, STANDARD PRACTICE FOR ESTABLISHING STRUCTURAL GRADES AND RELATED ALLOWABLE PROPERTIES FOR VISUALLY GRADED LUMBER
2. MECHANICAL STRENGTH OF TIMBER SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D476, STANDARD TEST METHODS FOR MECHANICAL PROPERTIES OF LUMBER AND WOOD-BASED STRUCTURAL MATERIALS
3. ALL STRUCTURAL TIMBER SHALL BE SOUTHERN PINE OF THE QUALITY DEFINED AS GRADE NO. 1 OR BETTER, S4S. GRADES OF SOUTHERN PINE REFER TO THE LATEST STANDARD GRADING RULES OF THE SOUTHERN PINE INSPECTION BUREAU.
4. DECKING SHALL BE 2X8 WOOD, KEBONY CLEAR OR APPROVED EQUAL IN ACCORDANCE WITH THE SPECIFICATIONS. ALL HARDWARE FOR THE WOOD DECKING SHALL BE STAINLESS STEEL. ALL DECKING SHALL HAVE A ¼" GAP BETWEEN DECK BOARDS. DECKING HARDWARE SHALL BE 316 STAINLESS STEEL #8 DECK SCREWS, TWO (2) PER CONNECTION PER BOARD. ALL HOLES FOR THE WOOD DECK BOARD FASTENERS SHALL BE PRE DRILLED AND ALL SCREWS SHALL BE FLATHEAD/COUNTERSUNK.
5. TIMBER STRINGERS AND ALL OTHER TIMBER FRAMING SHALL BE PRESERVATIVE PRESSURE TREATED WITH A MINIMUM CCA CONTENT OF 2.5 PCF.
6. ALL FASTENERS GREATER THAN ½" NOMINAL DIAMETER SHALL BE HOT-DIPPED GALVANIZED AND SHALL CONFORM TO ASTM A-307 HARDWARE.
7. ALL FASTENERS ½" NOMINAL DIAMETER AND LESS SHALL BE STAINLESS STEEL. STAINLESS STEEL GRADE SHALL BE 316.

BROWN, RICHARDSON + ROWE

LANDSCAPE ARCHITECTS AND PLANNERS
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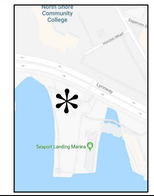
Stantec
Stantec Consulting Services Inc.
45 Blue Sky Drive, 3rd Floor
Burlington, MA 01803
Tel: 781.221.1000
www.stantec.com

VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

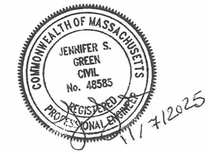
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

PROJECT NOTES
SHEET 2 OF 2

ACCESSION #:105006x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

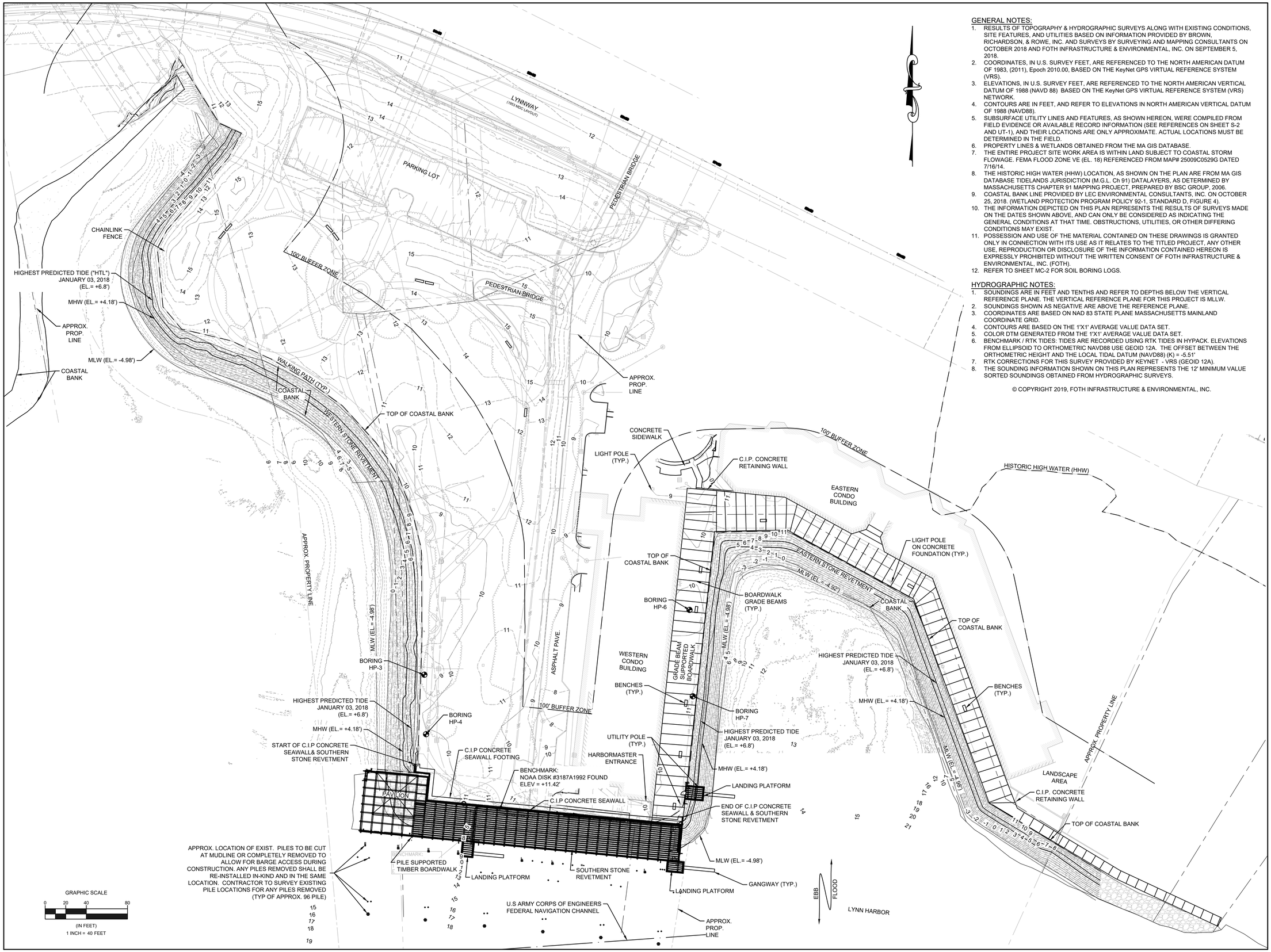
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

G-2



GENERAL NOTES:

1. RESULTS OF TOPOGRAPHY & HYDROGRAPHIC SURVEYS ALONG WITH EXISTING CONDITIONS, SITE FEATURES, AND UTILITIES BASED ON INFORMATION PROVIDED BY BROWN, RICHARDSON, & ROWE, INC. AND SURVEYS BY SURVEYING AND MAPPING CONSULTANTS ON OCTOBER 2018 AND FOTH INFRASTRUCTURE & ENVIRONMENTAL, INC. ON SEPTEMBER 5, 2018.
2. COORDINATES, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983, (2011), Epoch 2010.00, BASED ON THE KeyNet GPS VIRTUAL REFERENCE SYSTEM (VRS).
3. ELEVATIONS, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) BASED ON THE KeyNet GPS VIRTUAL REFERENCE SYSTEM (VRS) NETWORK.
4. CONTOURS ARE IN FEET, AND REFER TO ELEVATIONS IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
5. SUBSURFACE UTILITY LINES AND FEATURES, AS SHOWN HEREON, WERE COMPILED FROM FIELD EVIDENCE OR AVAILABLE RECORD INFORMATION (SEE REFERENCES ON SHEET S-2 AND UT-1), AND THEIR LOCATIONS ARE ONLY APPROXIMATE. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD.
6. PROPERTY LINES & WETLANDS OBTAINED FROM THE MA GIS DATABASE.
7. THE ENTIRE PROJECT SITE WORK AREA IS WITHIN LAND SUBJECT TO COASTAL STORM FLOWAGE. FEMA FLOOD ZONE VE (EL. 18) REFERENCED FROM MAP# 25009C0529G DATED 7/16/14.
8. THE HISTORIC HIGH WATER (HHW) LOCATION, AS SHOWN ON THE PLAN ARE FROM MA GIS DATABASE TIDELANDS JURISDICTION (M.G.L. Ch 91) DATALAYERS, AS DETERMINED BY MASSACHUSETTS CHAPTER 91 MAPPING PROJECT, PREPARED BY BSC GROUP, 2006.
9. COASTAL BANK LINE PROVIDED BY LEC ENVIRONMENTAL CONSULTANTS, INC. ON OCTOBER 25, 2018. (WETLAND PROTECTION PROGRAM POLICY 92-1, STANDARD D, FIGURE 4).
10. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES SHOWN ABOVE, AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. OBSTRUCTIONS, UTILITIES, OR OTHER DIFFERING CONDITIONS MAY EXIST.
11. POSSESSION AND USE OF THE MATERIAL CONTAINED ON THESE DRAWINGS IS GRANTED ONLY IN CONNECTION WITH ITS USE AS IT RELATES TO THE TITLED PROJECT, ANY OTHER USE, REPRODUCTION OR DISCLOSURE OF THE INFORMATION CONTAINED HEREON IS EXPRESSLY PROHIBITED WITHOUT THE WRITTEN CONSENT OF FOTH INFRASTRUCTURE & ENVIRONMENTAL, INC. (FOTH).
12. REFER TO SHEET MC-2 FOR SOIL BORING LOGS.

HYDROGRAPHIC NOTES:

1. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO DEPTHS BELOW THE VERTICAL REFERENCE PLANE. THE VERTICAL REFERENCE PLANE FOR THIS PROJECT IS MLLW.
2. SOUNDINGS SHOWN AS NEGATIVE ARE ABOVE THE REFERENCE PLANE.
3. COORDINATES ARE BASED ON NAD 83 STATE PLANE MASSACHUSETTS MAINLAND COORDINATE GRID.
4. CONTOURS ARE BASED ON THE 1'X1' AVERAGE VALUE DATA SET.
5. COLOR DTM GENERATED FROM THE 1'X1' AVERAGE VALUE DATA SET.
6. BENCHMARK / RTK TIDES: TIDES ARE RECORDED USING RTK TIDES IN HYPACK. ELEVATIONS FROM ELLIPSOID TO ORTHOMETRIC NAVD88 USE GEOID 12A. THE OFFSET BETWEEN THE ORTHOMETRIC HEIGHT AND THE LOCAL TIDAL DATUM (NAVD88) (K) = -5.51'
7. RTK CORRECTIONS FOR THIS SURVEY PROVIDED BY KEYNET - VRS (GEOID 12A).
8. THE SOUNDING INFORMATION SHOWN ON THIS PLAN REPRESENTS THE 12' MINIMUM VALUE SORTED SOUNDINGS OBTAINED FROM HYDROGRAPHIC SURVEYS.

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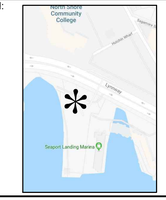
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JENNIFER S. GREEN
CIVIL
No. 48585
REGISTERED PROFESSIONAL ENGINEER
11/7/2025

DRAWING TITLE:

OVERALL EXISTING SITE PLAN

ACCESSION #:105007x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

MC-1

Stantec BOREHOLE LOG — HP-3

CLIENT Brown, Richardson, and Rowe — PROJECT No. 179410469
LOCATION Heritage State Park, Lynn, MA — EXPLORATION No. HP-3
EXPLORATION DATE 7/6/2017 to 7/7/2017 — WATER LEVEL Tidal — DATUM NAVD88

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	NUMBER	RECOVERY in.	SPT Blows / 6"	SPT N-Value	PID Reading (PPM)
0	8.5	5" Asphalt								
5	4.1	Very dense, brown/red m/f SAND, some Silt			SS	1	13	25 40 65 20	105	
	7.5	Gray crushed rock, some brick. Wood in tip								
	6.5	Wood, natural color. Wood in tip. Horizontal fibers			SS	2	2	100/6"	R	
	5.0									
10	3.5	Wood, natural color			SS	3	9	10 9 29 6	38	
	1.5									
	1.3	Wood, some Gravel, trace fine Sand, trace Silt			SS	4	9	17 9 12 13	21	
	-0.5									
15	-1.5	No recovery. Wood in tip, little gray Silt.			SS	5	0	10 6 2 1	8	
	-3.5	Wood, some dk brown/black Silt, trace Ash. Rock in tip, Wash almost black			SS	6	4	2 20 6 2	26	
	-5.5	Soft, gray/green SILT, and Clay, organic odor. Red brick at top 2" of sample			SS	7	8	10 2 1 2	3	
20	-7.5	Medium stiff, gray/green SILT, and Clay, little Wood, trace fine Gravel, trace fine Sand, organic odor. Trace brick in top 2" of sample			SS	8	8	3 4 3 3	7	
	-9.5	-BOTTOM OF FILL-								
	-11.5	Medium stiff, gray SILTY CLAY, organic odor PP= 2 - 2.5 tsf			SS	9	12	4 3 6 9	9	
	-12.5	Very stiff, gray/black SILTY CLAY, organic odor								
25	-13.5	Very stiff, tan/gray SILTY CLAY, no odor PP= 4.25 tsf			SS	10	21	10 14 12	24	
	-14.5	Very stiff, gray SILTY CLAY, no odor						4 8		

Driller: New England Boring- Derry, NH; Supervisor: Brian Foley
Rig Type: Acker Truck Rig; Hammer: Safety Hammer, 4" diam. Drive and Wash, 2" Split Spoon Sampler

Undrained Shear Strength - tsf: 1 2 3 4
Water Content & Atterberg Limits: Wp, w, WL
Dynamic Penetration Test, blows/foot ●
Standard Penetration Test, blows/foot ●
10 20 30 40 50 60 70 80 90

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✖ Pocket Penetrometer / Torvane
Continued Next Page

Stantec BOREHOLE LOG — HP-3

CLIENT Brown, Richardson, and Rowe — PROJECT No. 179410469
LOCATION Heritage State Park, Lynn, MA — EXPLORATION No. HP-3
EXPLORATION DATE 7/6/2017 to 7/7/2017 — WATER LEVEL Tidal — DATUM NAVD88

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	NUMBER	RECOVERY in.	SPT Blows / 6"	SPT N-Value	PID Reading (PPM)
	-15.5	PP= 2 tsf								
25	-17.5	Very stiff, tan/gray SILTY CLAY PP= 1 tsf			SS	11	24	11 12	19	
	-19.5	Stiff, olive gray SILTY CLAY, little tan clay at top PP= 1 tsf			SS	12	24	6 4 5 6	9	
	-21.5	Stiff, olive gray SILTY CLAY (CL) PP= 1 tsf			SS	13	24	4 3 4 3	7	
30	-23.5	Medium stiff, olive gray SILTY CLAY (CL) PP= .75 tsf			SS	14	15	WOR 3 2 3	5	
	-26.5	Medium stiff, olive gray SILTY CLAY (CL) PP= 0 tsf			SS	15	11	4 3 4 4	7	
	-27.5	Shelby tube sample from 35' to 37'. No recovery. Olive gray SILTY CLAY (CL)			ST	1	0			
35	-28.5	Shelby tube sample from 37' to 39'. Tube dented at bottom. Large gravel piece seen at top of sample. Olive gray clay			ST	2	24			
	-30.5	Stiff, olive gray CLAY PP= .25 tsf			SS	16	24	WOR 2 4 5	6	
	-32.5	Shelby tube sample from 42 to 44'. No recovery.			ST	3	0			
40	-33.5									
	-35.5	Stiff, olive gray CLAY PP= .25 tsf			SS	17	24	2 4	6	
	-36.5									

Driller: New England Boring- Derry, NH; Supervisor: Brian Foley
Rig Type: Acker Truck Rig; Hammer: Safety Hammer, 4" diam. Drive and Wash, 2" Split Spoon Sampler

Continued Next Page

Stantec BOREHOLE LOG — HP-3

CLIENT Brown, Richardson, and Rowe — PROJECT No. 179410469
LOCATION Heritage State Park, Lynn, MA — EXPLORATION No. HP-3
EXPLORATION DATE 7/6/2017 to 7/7/2017 — WATER LEVEL Tidal — DATUM NAVD88

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	NUMBER	RECOVERY in.	SPT Blows / 6"	SPT N-Value	PID Reading (PPM)
	-38.5									
50	-41.5	Medium stiff, olive gray SILTY CLAY PP= 30 tsf			SS	17	24	4 4 4	8	
	-43.5	End of boring at 52 feet. No refusal.			SS	18	24	WOR 3 4 4	7	

Driller: New England Boring- Derry, NH; Supervisor: Brian Foley
Rig Type: Acker Truck Rig; Hammer: Safety Hammer, 4" diam. Drive and Wash, 2" Split Spoon Sampler

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✖ Pocket Penetrometer / Torvane

Stantec BOREHOLE LOG — HP-4

CLIENT Brown, Richardson, and Rowe — PROJECT No. 179410469
LOCATION Heritage State Park, Lynn, MA — EXPLORATION No. HP-4
EXPLORATION DATE 7/10/2017 to 7/10/2017 — WATER LEVEL Tidal — DATUM NAVD88

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	NUMBER	RECOVERY in.	SPT Blows / 6"	SPT N-Value	PID Reading (PPM)
0	9.8	4" Asphalt								
	9.5	Very dense, brown m/f SAND, little Silt, trace Gravel			SS	1	11	17 45 66 31	111	
	8.8	Very dense, light gray rock								
5	8.4	Dense, dark brown/black, little Silt, trace Gravel, trace Ash			SS	2	13	40 19 25 36	44	
	6.8	Hard, greenish gray CLAY, trace Sand, trace Gravel								
	6.4	Medium dense, brown/orange/red m/f SAND, some Clay, trace Gravel			SS	3	7	22 18 12 16	30	
	4.8									
	4.7	No recovery			SS	4	0	13 4 4 3	8	
10	2.8									
	0.8	Medium dense, brown SAND, and Silt, some Gravel, little Wood. Wood stuck in sampler tip			SS	5	6	9 7 6 9	13	
	-1.2	Medium dense, WOOD, little brown/black Silt. Sample from tip			SS	6	0	4 3 8 4	11	
	-3.2	No recovery, Brick and glass in wash			SS	7	0	4 6 6 7	10	
15	-5.2	Medium dense, WOOD, little brown/black Silt. Sample from tip			SS	8	0	11 9 10 10	19	
	-7.2	Medium dense, dark gray coarse to fine SAND, some Silt, trace Brick, trace Shells. Wood in tip			SS	9	4	1 14 13 12	27	
	-9.2	-BOTTOM OF FILL-								
	-11.2	Stiff, SILT, and Clay, organic odor.			SS	10	14	7 9 6 6	11	
20	-11.5	Medium dense, tan coarse to fine SAND, little Silt			SS	11	19	11 12 6 7	18	
	-12.5	Very stiff, tan CLAY								
	-13.2									

Driller: New England Boring- Derry, NH; Supervisor: Brian Foley
Rig Type: Acker Truck Rig; Hammer: Safety Hammer, 4" diam. Drive and Wash, 2" Split Spoon Sampler

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✖ Pocket Penetrometer / Torvane
Continued Next Page

Stantec BOREHOLE LOG — HP-4

CLIENT Brown, Richardson, and Rowe — PROJECT No. 179410469
LOCATION Heritage State Park, Lynn, MA — EXPLORATION No. HP-4
EXPLORATION DATE 7/10/2017 to 7/10/2017 — WATER LEVEL Tidal — DATUM NAVD88

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	NUMBER	RECOVERY in.	SPT Blows / 6"	SPT N-Value	PID Reading (PPM)
	-37.2									
50	-40.2	Medium stiff, olive gray CLAY, very plastic Not enough sample for pocket penetrometer, but very soft			SS	18	24	4 4 4	8	
	-42.2									
	-45.2	Very soft, olive gray CLAY, very plastic PP= 0 tsf			SS	19	4	WOR 1 2 4	5	
55	-47.2	Roller bit to 70 feet. Plastic clay in wash consistently to 70 feet.			SS	20	24	WOR WOR WOR 4	WOR	
	-65									

Driller: New England Boring- Derry, NH; Supervisor: Brian Foley
Rig Type: Acker Truck Rig; Hammer: Safety Hammer, 4" diam. Drive and Wash, 2" Split Spoon Sampler

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
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Stantec BOREHOLE LOG — HP-4

CLIENT Brown, Richardson, and Rowe — PROJECT No. 179410469
LOCATION Heritage State Park, Lynn, MA — EXPLORATION No. HP-4
EXPLORATION DATE 7/10/2017 to 7/10/2017 — WATER LEVEL Tidal — DATUM NAVD88

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	NUMBER	RECOVERY in.	SPT Blows / 6"	SPT N-Value	PID Reading (PPM)
	-14.0	PP= 2 tsf								
25	-15.2	Medium dense, tan m/f SAND, some Clay spots Stiff, tan CLAY, trace Sand PP= 2 tsf			SS	12	19	7 6 8	11	
	-17.2	Stiff, tan CLAY PP= 1 tsf			SS	13	16	6 9 9 9	15	
	-19.2	Stiff, olive gray CLAY PP= 2 tsf			SS	14	22	4 6 7 8	13	
30	-21.2	Stiff, olive gray CLAY PP= .75 tsf			SS	15	16	4 5 6 6	11	
	-22.2	Shelby tube taken from 32-34' Overfilled tube. 4" of soft gray clay wash taken off top.			ST	1	24			
	-24.2	Medium stiff, olive gray CLAY, very plastic PP= 1 tsf			SS	16	24	2 3 4 3	6	
35	-26.2									
	-30.2	Medium stiff, olive gray CLAY, very plastic PP= 0 tsf			SS	17	24	WOR 3 4 4	5	
	-32.2									
40	-35.2	Medium stiff, olive gray CLAY, very plastic PP= 0 tsf						WOR WOR		
	-45									

Driller: New England Boring- Derry, NH; Supervisor: Brian Foley
Rig Type: Acker Truck Rig; Hammer: Safety Hammer, 4" diam. Drive and Wash, 2" Split Spoon Sampler

Continued Next Page

Stantec BOREHOLE LOG — HP-4

CLIENT Brown, Richardson, and Rowe — PROJECT No. 179410469
LOCATION Heritage State Park, Lynn, MA — EXPLORATION No. HP-4
EXPLORATION DATE 7/10/2017 to 7/10/2017 — WATER LEVEL Tidal — DATUM NAVD88

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	NUMBER	RECOVERY in.	SPT Blows / 6"	SPT N-Value	PID Reading (PPM)
	-60.2									
70	-60.7	Olive gray CLAY, trace fine Gravel PP= 1 tsf			SS	21	8	41 100/5"	R	
	-61.2	GRAVEL/Weathered rock, trace c/m Sand, trace Clay End of boring at 71 feet. Sampler refusal.								
75										
80										
85										
90										

Driller: New England Boring- Derry, NH; Supervisor: Brian Foley
Rig Type: Acker Truck Rig; Hammer: Safety Hammer, 4" diam. Drive and Wash, 2" Split Spoon Sampler

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✖ Pocket Penetrometer / Torvane

Stantec BOREHOLE LOG — HP-6

CLIENT Brown, Richardson, and Rowe — PROJECT No. 179410469
LOCATION Heritage State Park, Lynn, MA — EXPLORATION No. HP-6
EXPLORATION DATE 7/12/2017 to 7/13/2017 — WATER LEVEL Tidal — DATUM NAVD88

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	NUMBER	RECOVERY in.	SPT Blows / 6"	SPT N-Value	PID Reading (PPM)
0	9.5	Very loose, brown m/f SAND, some Silt			SS	1	5	WOH WOH	1	
	7.5	Very loose, brown to dark brown c/m/f SAND, some Silt, brick in tip			SS	2	13	1 2 2 11	3	
	5.5	Dark brown/black SILT, and fine Sand, trace Clay, trace Ash.			SS	3	8	20 17 7 5	24	
	5.3	Medium dense, red BRICK								
	3.5	No recovery. Wood stuck in tip			SS	4	0	4 4 3 3	7	
	1.5	No recovery. Wood stuck in tip			SS	5	0	1 1 2 2	2	
	-0.5	Hard, gray/brown SILT, and Clay, trace fine Sand, trace Wood. Wood stuck in tip			SS	6	1	2 11 34 7	45	
	-2.5	Dense, c/m/f SAND, some fine Gravel, some Silt (sm) Wood			SS	7	12	30 9 26 25	35	
	-4.5	transition from Very stiff gray clayey SILT with trace fine Sand to Medium dense black m/f SAND, some Silt, trace Clay. Organic odor			SS	8	5	15 14 14 14	28	
	-6.5	Stiff, gray SILTY CLAY, trace Gravel, some silty seams. Organic odor (CL) PP= 2.25 tsf			SS	9	18	3 4 7 10	11	
	-8.5	Medium dense, coarse to fine gray SAND, some Silt			SS	10	20	11 13 14 17	27	
	-9.3	Stiff, olive gray CLAY, little fine Sand PP= 1.25 tsf			SS	11	17	11 12 11 14	23	
	-10.5	Stiff, olive gray CLAY PP= .75 tsf						3 4		
	-12.5									

Driller: New England Boring- Derry, NH; Supervisor: Brian Foley
Rig Type: Acker Mobile Scout Rig; Hammer: Donut Hammer; 4" diam. Drive and Wash, 2" Split Spoon Sampler

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✖ Pocket Penetrometer / Torvane
Continued Next Page

Stantec BOREHOLE LOG — HP-6

CLIENT Brown, Richardson, and Rowe — PROJECT No. 179410469
LOCATION Heritage State Park, Lynn, MA — EXPLORATION No. HP-6
EXPLORATION DATE 7/12/2017 to 7/13/2017 — WATER LEVEL Tidal — DATUM NAVD88

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	NUMBER	RECOVERY in.	SPT Blows / 6"	SPT N-Value	PID Reading (PPM)
	-14.5	Medium stiff, olive gray SILTY CLAY, very plastic PP= 0 tsf			SS	12	18	5 6	9	
25	-16.5				SS	13	18	4 5 3 4	8	
	-17.5	Olive gray SILTY CLAY (CL) Shelby tube sample taken from 27' to 29' below GS Overfilled tube. 4" of soft gray clay wash taken off top.			ST	1				
	-19.5	Medium stiff, olive gray SILTY CLAY, trace Gravel, one fine sand lense (CL) PP= .25 tsf			SS	14	20	2 3 4 4	7	
	-21.5	Stiff, olive gray SILTY CLAY, very plastic PP= 0 tsf			SS	15	20	6 6 5 5	11	
30	-23.5									
	-27.5	Medium stiff, olive gray SILTY CLAY (CL) PP= 0			SS	16	24	WOH 2 3 3	5	
	-29.5									
35	-32.5	Medium stiff, olive gray SILTY CLAY, very plastic PP= 0			SS	17	24	1 2 2 3	4	
	-34.5									
40										
	-45									

Driller: New England Boring- Derry, NH; Supervisor: Brian Foley
Rig Type: Acker Mobile Scout Rig; Hammer: Donut Hammer; 4" diam. Drive and Wash, 2" Split Spoon Sampler

Continued Next Page

Stantec BOREHOLE LOG — HP-6

CLIENT Brown, Richardson, and Rowe — PROJECT No. 179410469
LOCATION Heritage State Park, Lynn, MA — EXPLORATION No. HP-6
EXPLORATION DATE 7/12/2017 to 7/13/2017 — WATER LEVEL Tidal — DATUM NAVD88

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	NUMBER	RECOVERY in.	SPT Blows / 6"	SPT N-Value	PID Reading (PPM)
	-37.5									
50	-39.5	Medium stiff, olive gray CLAY, trace Gravel, one Sand lense, very plastic PP= .25			SS	18	24	WOR 2 3 4	5	
	-42.5	Very soft, olive gray SILTY CLAY, trace Gravel PP= 0 tsf			SS	19	24	WOR WOH 1 4	1	
55	-44.5	Auger though clay until 58.5 feet where rock was hit and sample taken.								
	-49.0	Spoon bouncing on probable bedrock			SS	20	0	50/0"	R	
	-49.1	End of boring at 58.5 feet. Roller bit and sampler refusal. Inclinometer installed from 3 feet above ground surface to 59.5 feet below ground surface.								
60										
65										

Driller: New England Boring- Derry, NH; Supervisor: Brian Foley
Rig Type: Acker Mobile Scout Rig; Hammer: Donut Hammer; 4" diam. Drive and Wash, 2" Split Spoon Sampler

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✖ Pocket Penetrometer / Torvane

Stantec BOREHOLE LOG — HP-7

CLIENT Brown, Richardson, and Rowe — PROJECT No. 179410469
LOCATION Heritage State Park, Lynn, MA — EXPLORATION No. HP-7
EXPLORATION DATE 7/31/2017 to 8/1/2017 — WATER LEVEL Tidal- 6.4' at 9:45 on 8/1/17 — DATUM NAVD88

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	NUMBER	RECOVERY in.	SPT Blows / 6"	SPT N-Value	PID Reading (PPM)
0	11.0									
	9.0	Very dense, gray/brown m/f SAND, little Silt, trace Clay			SS	1	4	3 40 20 6	60	
5	7.0	Medium dense, gray/brown SAND, little Silt, trace Clay, trace Brick, trace Wood, moist			SS	2	3	5 4 7 11	11	
	5.0	Loose, gray SILT, some fine Sand, trace Wood, trace Brick, little Gravel, wet			SS	3	3	50 7 1/12"	8	
	3.0	Very soft, gray CLAY, some Silt, little Gravel, trace fine Sand, wet			SS	4	2	1/18" 1	1	
10	1.0	Very loose, brown c/m/f SAND, and Silt, trace Brick, trace Wood, strong organic odor Black in tip			SS	5	6	WOR WOH WOH 1	WOH	
	-1.0	Casing does not have enough friction to stay in place during wash WOOD, some black Silt, trace Sand, trace Gravel, trace Brick, trace Ash			SS	6	6	WOR/2" 9/12"	8	
	-3.0	Hit hard wood at 13' and one blow after getting through sent sampler one foot Loose, black WOOD, little Silt, trace Brick, little Ash, organic odor, trace fine Sand -BOTTOM OF FILL-			SS	7	7	WOH 6 2 4	8	
15	-5.0	Medium dense, black/dark gray SILT, some Clay			SS	8	6	7 8 3 4	11	
	-7.0	Medium dense, black/dark gray CLAY, and Silt, organic odor Looks natural			SS	9	18	6 8 10 16	16	
	-9.0	Very stiff, olive gray SILTY CLAY (CL) PP= 2.25 tsf			SS	10	15	7 11 11 11	22	
20	-11.0	Very stiff, olive gray SILTY CLAY PP= 1.5 tsf			SS	11	17	4 5 6 7	11	
	-13.0	Stiff, olive gray SILTY CLAY, trace Silt PP= 1.5 tsf						9 11		
	-15.0	Very stiff, olive gray SILTY CLAY, trace Silt, trace Gravel. Silty clay lenses								

Driller: New England Boring- Derry, NH; Supervisor: Brian Foley
Rig Type: Acker Mobile Scout Rig; Hammer: Donut Hammer; 4" diam. Drive and Wash, 2" Split Spoon Sampler

Continued Next Page

Stantec BOREHOLE LOG — HP-7

CLIENT Brown, Richardson, and Rowe — PROJECT No. 179410469
LOCATION Heritage State Park, Lynn, MA — EXPLORATION No. HP-7
EXPLORATION DATE 7/31/2017 to 8/1/2017 — WATER LEVEL Tidal- 6.4' at 9:45 on 8/1/17 — DATUM NAVD88

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	NUMBER	RECOVERY in.	SPT Blows / 6"	SPT N-Value	PID Reading (PPM)
	-13.0	PP= .8 tsf			SS	12	20	9 10	20	
25	-15.0	No recovery			SS	13	0	3 4 5 5	9	
	-17.0	Stiff, olive gray SILTY CLAY, very plastic, trace Gravel, trace Organics PP= 0			SS	14	20	6 4 5 5	9	
	-19.0									
30	-21.0	Medium stiff, olive gray SILTY CLAY, trace Gravel No recovery. Sample from tip			SS	15	0	2 3 3 4	6	
	-24.0	Medium stiff, olive gray SILTY CLAY No recovery. Sample from tip			SS	16	0	2 3 4 4	7	
	-26.0									
35	-29.0	Medium stiff, olive gray SILTY CLAY, trace Silt, plastic. Silty clay lense PP= 0 tsf			SS	17	24	2 3 4	6	
	-31.0									
40								1 3		
	-35.0									

Driller: New England Boring- Derry, NH; Supervisor: Brian Foley
Rig Type: Acker Mobile Scout Rig; Hammer: Donut Hammer; 4" diam. Drive and Wash, 2" Split Spoon Sampler

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✖ Pocket Penetrometer / Torvane

Stantec BOREHOLE LOG — HP-7

CLIENT Brown, Richardson, and Rowe — PROJECT No. 179410469
LOCATION Heritage State Park, Lynn, MA — EXPLORATION No. HP-7
EXPLORATION DATE 7/31/2017 to 8/1/2017 — WATER LEVEL Tidal- 6.4' at 9:45 on 8/1/17 — DATUM NAVD88

DEPTH (ft)	ELEVATION (ft)	MATERIAL DESCRIPTION	STRATA PLOT	WATER LEVEL	SAMPLES TYPE	NUMBER	RECOVERY in.	SPT Blows / 6"	SPT N-Value	PID Reading (PPM)
	-37.0	Medium stiff, olive gray SILTY CLAY, trace Silt, trace fine Gravel, plastic PP= 0 tsf			SS	18	12	3 5	6	
50	-40.0	Soft, olive gray SILTY CLAY, trace Silt, trace fine Gravel, plastic PP= 0 tsf			SS	19	19	2 2 2 4	4	
	-42.0									
	-46.0	Roller bit bit TILL at 57'								
55	-47.0	End of boring at 58' Roller bit refusal								
60										
65										

Driller: New England Boring- Derry, NH; Supervisor: Brian Foley
Rig Type: Acker Mobile Scout Rig; Hammer: Donut Hammer; 4" diam. Drive and Wash, 2" Split Spoon Sampler

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✖ Pocket Penetrometer / Torvane

NOTES:
1. FOR PROJECT NOTES, SEE DRAWING G-1 AND G-2.
2. FOR SOIL BORING LOCATIONS, SEE DRAWING MC-1.

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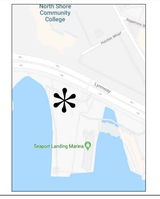
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WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

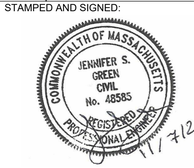
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

SOIL BORING LOGS

ACCESSION #:105008x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

MC-2

NOTES:
1. FOR PROJECT NOTES, SEE DRAWING G-1 & G-2.
2. FOR BORINGS, SEE DRAWING MC-2.
3. REFER TO UTILITY DRAWINGS FOR UTILITY IMPROVEMENTS.
4. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL IMPROVEMENTS.
5. REFER TO LANDSCAPE DRAWINGS FOR LANDSCAPE IMPROVEMENTS.
6. CONTRACTOR TO LIMIT CONSTRUCTION EQUIPMENT TO AN 100 PSF LOADING WHEN WITHIN 10-FEET OF THE EXISTING REVETMENT.
7. REMOVE BOAT PLANTER, STOCKPILE, AND DELIVER TO A LOCATION AS SELECTED BY THE CITY OF LYNN.
8. CONTRACTOR SHALL DOCUMENT LOCATIONS OF EXISTING SOLAR LIGHTS INSTALLED ON TOP OF EXISTING DECK SURFACE PRIOR TO REMOVAL. ONCE DOCUMENTATION IS COMPLETE, REMOVE, STORE, AND REINSTALL AFTER DECK REPLACEMENT IN LOCATIONS TO MATCH ORIGINAL LOCATIONS.
9. REMOVE AND DISPOSE OF SELECT EXISTING TIMBER STRINGERS. SEE MS-15 FOR TIMBER STRINGER REPLACEMENT SCHEDULE.
10. REMOVE AND DISPOSE OF SELECT EXISTING TIMBER STRINGERS AND PILE CAPS. SEE MS-7 FOR TIMBER STRINGER AND PILE CAP REPLACEMENT SCHEDULE.
11. REMOVE AND DISPOSE EXISTING TIMBER SUPPORT, REPLACE TIMBER SUPPORT IN-KIND, FACED WITH VERTICAL 2X6 WOOD CLADDING TO MATCH ADJACENT CLADDING; SEE E-3 FOR INFO ON JUNCTION BOX REPLACEMENT.
12. WORK MAY OCCUR BETWEEN NOVEMBER 1 AND APRIL 30. OUTSIDE OF THIS TIMEFRAME, SAFE PUBLIC ACCESS TO HARBOR MASTER'S ROOM AND BOTH MARINA GANGWAYS, INCLUDING COMPLETELY INSTALLED, REFURBISHED OR REPLACED IN-KIND GANGWAY GATEWAY AND FENCE PANELS, IS REQUIRED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE PERIODIC, SCHEDULED ACCESS TO HARBOR MASTER ROOM FOR HARBOR MASTER OR BUILDING STAFF AT ALL POINTS OF THE PROJECT. ANY PHASING OR SEQUENCING THAT IS REQUIRED TO WORK WITHIN THE TIME FRAME CONSTRAINTS AND RESTORATION OF THE MARINA ACCESS BY THE SPECIFIED DATE IS A REQUIREMENT OF THE CONTRACT. THE CONTRACTOR SHALL ENSURE THAT ALL GANGWAY REINSTALLATION IS COMPLETE IN ACCORDANCE WITH THE SCHEDULE REQUIREMENTS TO ALLOW FOR MARINA ACCESS SET FORTH BY DCR.

WALKING PATH; (REFER TO ARCH DWGS)
APPROX. PROPERTY LINE
HTL (EL. +6.8')
MHW (EL. +4.18')
MLW (EL. -4.98')
WESTERN STONE REVETMENT (TO REMAIN)
ELECTRICAL JUNCTION BOX (SEE NOTE 11)
REMOVE AND DISPOSE GATE SUPPORT POST
PAVILION (REMOVE, STORE, AND RE-INSTALL; REFER TO SHEET MS-8)
EXIST. LIGHT POLE SEE E-3
REMOVE AND DISPOSE OF EXIST. GATE
PAVILION BENCHES; REMOVE AND DISPOSE (TYP.)
REMOVE, STORE AND RE-INSTALL EXIST. DECK SURFACE MOUNTED SOLAR LIGHTS (SEE NOTE 7)
EXIST. LIGHT POLE SEE E-3
TIMBER PILE SUPPORTED BOARDWALK; REMOVE, DISPOSE AND REPLACE HANDRAIL, DECKING AND UPPER CROSS BRACING
APPROX. LOCATION OF EXIST. PILES TO BE CUT AT MUDLINE OR COMPLETELY REMOVED AND RE-INSTALLED IN-KIND AND AT THE SAME LOCATION AS REQUIRED TO ALLOW FOR BARGE ACCESS DURING CONSTRUCTION (TYP. OF APPROX. 96 PILES)
LANDSCAPE AREA (REFER TO LD DRAWINGS)
APPROX. LOCATION OF INCLINOMETER CASING. ABANDON IN PLACE (BORING LOCATION HP-3)
UTILITIES (REFER TO UT DWGS FOR DETAILS; TYP.)
APPROX. EXCAV. LIMITS (TO BE DET. BY CONTRACTOR)
EXIST. UNDERGROUND ELECTRIC, SEE UT-7
EXIST. LIGHT POLE, SEE E3
C.I.P. CONC. PARTIAL DEMO OF STEM (SEE MS-2)
ASPHALT PAVE.
BENCHMARK: NOAA DISK #3187A 1992 FOUND ELEV=11.42
APPROX. LIMITS OF 2 TO 4 TON ARMOR STONE REVETMENT, BELOW TIMBER PILE SUPPORTED BOARDWALK (TO REMAIN)
MARINA GANGWAY; REMOVE, STORE, AND DELIVER TO CITY OF LYNN STORAGE YARD
APPROX. LOCATION OF GANGWAY EXIST LANDING SPOTLIGHT, SEE E3
REMOVE AND DISPOSE OF EXIST. GATE
LANDING PLATFORM; REMOVE, DISPOSE, AND REPLACE DECKING, SELECT STRINGERS AND PILE CAPS, HANDRAIL AND UPPER CROSS BRACING (SEE NOTE 9)
LYNN HARBOR
EBB
FLOOD
100' BUFFER ZONE
APPROX. LOCATION OF INCLINOMETER CASING. ABANDON IN PLACE (THIS IS AT BORING LOCATION HP-6)
HARBOR MASTER OFFICE ENTRANCE, SEE NOTE 12
WESTERN CONDO BUILDING
APPROX. LIMITS OF EXIST. MURALS ALONG BUILDING (TO REMAIN IN PLACE) CONTRACTOR SHALL PROTECT MURALS FOR THE DURATION OF THE WORK (TYP.)
LIMITS OF REPAIR TYPE "B" GRADE BEAM SUPPORTED WALKWAY REPLACEMENT
APPROX. LOCATION OF EXIST. BIKE RACK (REMOVE AND DISPOSE; (TYP.)
EXIST. LIGHT POLE (TYP.), SEE E3
2 TO 4 TON ARMOR STONE REVETMENT(TO REMAIN)
EXIST. CONC. GRADE BEAM , TIMBER STRINGERS, TIMBER BEAM AND TIMBER DECKING AND RAILINGS; REMOVE AND DISPOSE (TYP.) SEE NOTE 5
HTL (EL. +6.8')
MHW (EL. +4.18')
MLW (EL. -4.98')
BENCH; REMOVE AND STORE (TYP.)
EXIST. LIGHT POLE SEE E3
LANDING PLATFORM; REMOVE AND REPLACE DECKING, HANDRAIL AND CROSS BRACING
MARINA GANGWAY; REMOVE, STORE, AND RE-INSTALL; SEE NOTE 12
APPROX. LOCATION OF EXIST. GANGWAY LANDING SPOT LIGHT, SEE E3
GATE AND FENCE PANELS; REMOVE, REFURBISH AND REINSTALL OR REMOVE, DISPOSE, AND REPLACE IN-KIND
EXIST. LIGHT POLE; SEE E3
RAMP; REMOVE AND DISPOSE
EXIST. FUEL SUMP ACCESS HATCH, REMOVE, STORE AND RE-INSTALL
MARINA GANGWAY; REMOVE, STORE, AND RE-INSTALL, OR LEAVE IN PLACE AND PROTECT; SEE NOTE 12
BOAT PLANTER; REMOVE (SEE NOTE 6)
LANDING PLATFORM; REMOVE, DISPOSE, AND REPLACE DECKING, HANDRAIL AND CROSS BRACING
APPROX. LOCATION OF EXIST. GANGWAY LANDING SPOTLIGHT; SEE E3
UTILITY SUPPORT PANEL; REMOVE, DISPOSE, AND REPLACE IN-KIND
GATE AND FENCE PANELS; REMOVE, REFURBISH AND REINSTALL OR REMOVE, DISPOSE, AND REPLACE IN-KIND
HISTORIC HIGHWATER
EASTERN CONDO BUILDING
EXIST. BENCH; REMOVE AND DISPOSE (TYP.)
EXIST. LIGHT POLE ON C.I.P CONCRETE FOUNDATION (TYP)SEE E4
EXIST. FLAG POLE ON C.I.P CONCRETE FOUNDATION; REMOVE, STORE, AND RESET AFTER DECK REPLACEMENT. CONTRACTOR TO SUBMIT DECKING DETAILS ADJACENT TO FLAGPOLE FOUNDATION FOR DCR REVIEW AND APPROVAL
EXIST CONC. GRADE BEAM, BEAM & TIMBER STRINGERS TO REMAIN; REMOVE, DISPOSE, AND REPLACE EXIST. DECKING, SELECT TIMBER STRINGERS, AND HANDRAIL (SEE NOTE 8)
SEAPORT LANDING MARINA OWNED BY CITY OF LYNN (NOT SHOWN FOR CLARITY)
LIMIT OF REPAIR TYPE "C" GRADE BEAM SUPPORTED WALKWAY RETROFIT
APPROX. PROPERTY LINE
LANDSCAPE AREA
C.I.P. CONC. RETAINING WALL; TO REMAIN
LIMIT OF WORK
LEGEND:
PROPOSED DEMOLITION

SITE & DEMOLITION PLAN
SCALE 1" = 30'-0"

GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET

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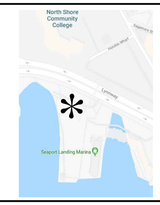
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VETERANS MEMORIAL PARK
WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JENNIFER S. GREEN
CIVIL
No. 48585
REGISTERED PROFESSIONAL ENGINEER
11/7/2025

DRAWING TITLE:
EXISTING SITE & DEMOLITION PLAN

ACCESSION #:105009x

DESIGNED: JSG/AM/TW

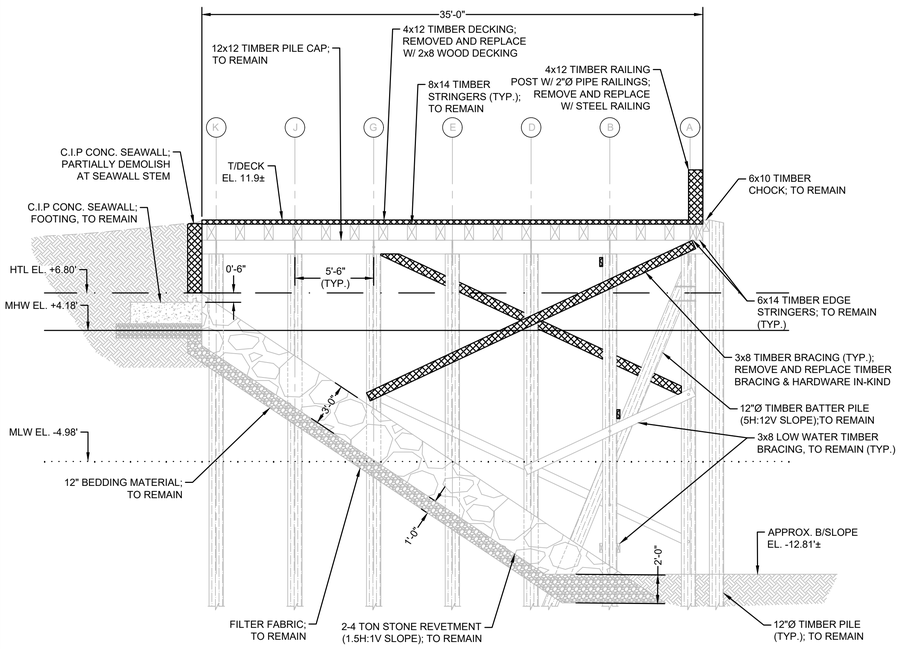
DRAWN: JSD CHECKED: JSG

DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

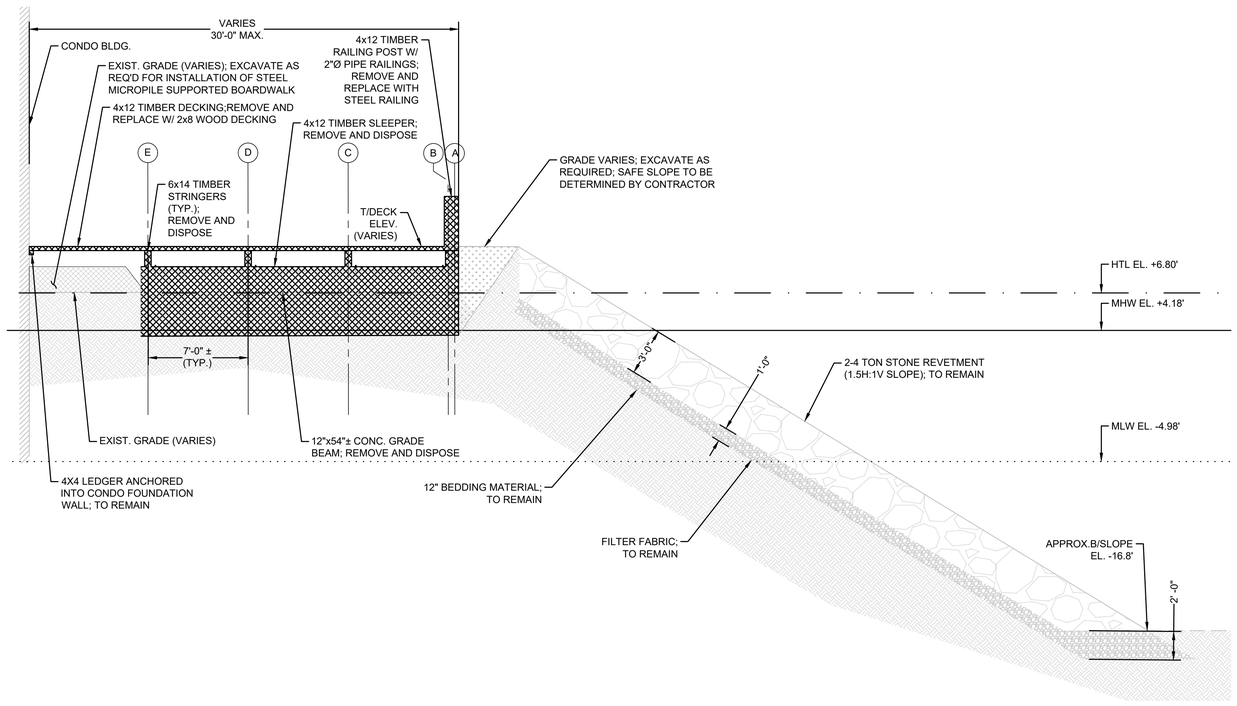
SUBMISSION: BID SET

DRAWING NO.
MS-1



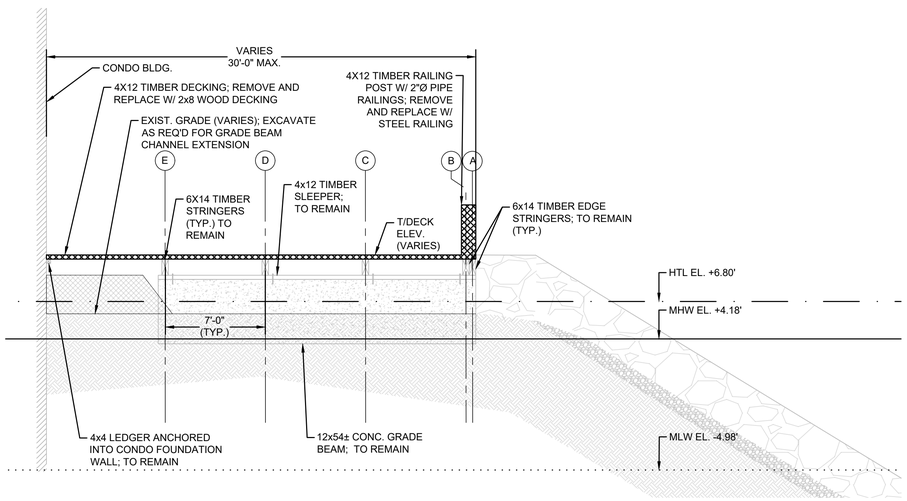
A MS-1 PILE SUPPORTED BOARDWALK REHABILITATION SECTION REPAIR

SCALE 1" = 5'-0"



B MS-1 GRADE BEAM SUPPORTED BOARDWALK REPLACEMENT SECTION REPAIR

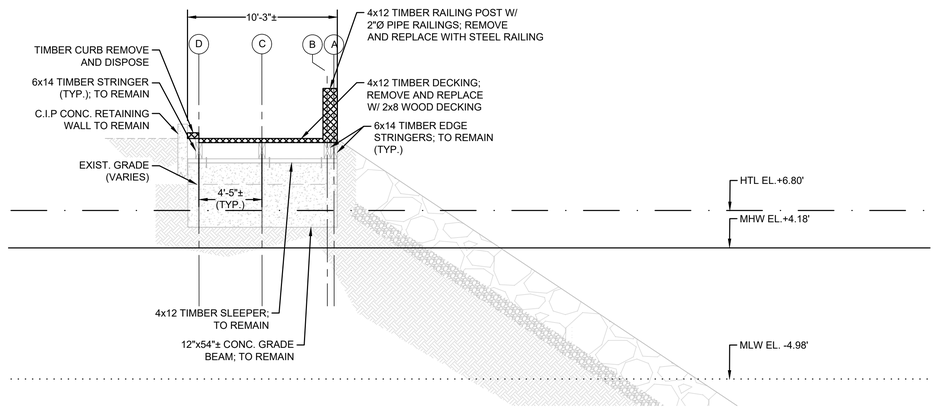
SCALE 1" = 5'-0"



C MS-1 GRADE BEAM SUPPORTED BOARDWALK REHABILITATION SECTION REPAIR – BENTS G-43 TO G-82

SCALE 1" = 5'-0"

NOTE: FOR REVETMENT DETAILS, SEE SECTION B, THIS SHEET.



D MS-1 GRADE BEAM SUPPORTED BOARDWALK REHABILITATION SECTION REPAIR – BENTS G-83 TO G-87

SCALE 1" = 5'-0"

NOTE: FOR REVETMENT DETAILS, SEE SECTION B, THIS SHEET.

GRAPHIC SCALE

0 2.5 5 10

(IN FEET)

1 INCH = 5 FEET

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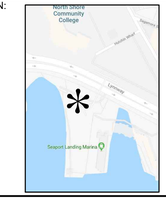
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Lynn, MA

for the Department of Conservation and Recreation

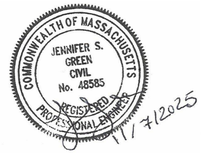
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

EXISTING & DEMOLITION SECTIONS

ACCESSION #:105010x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

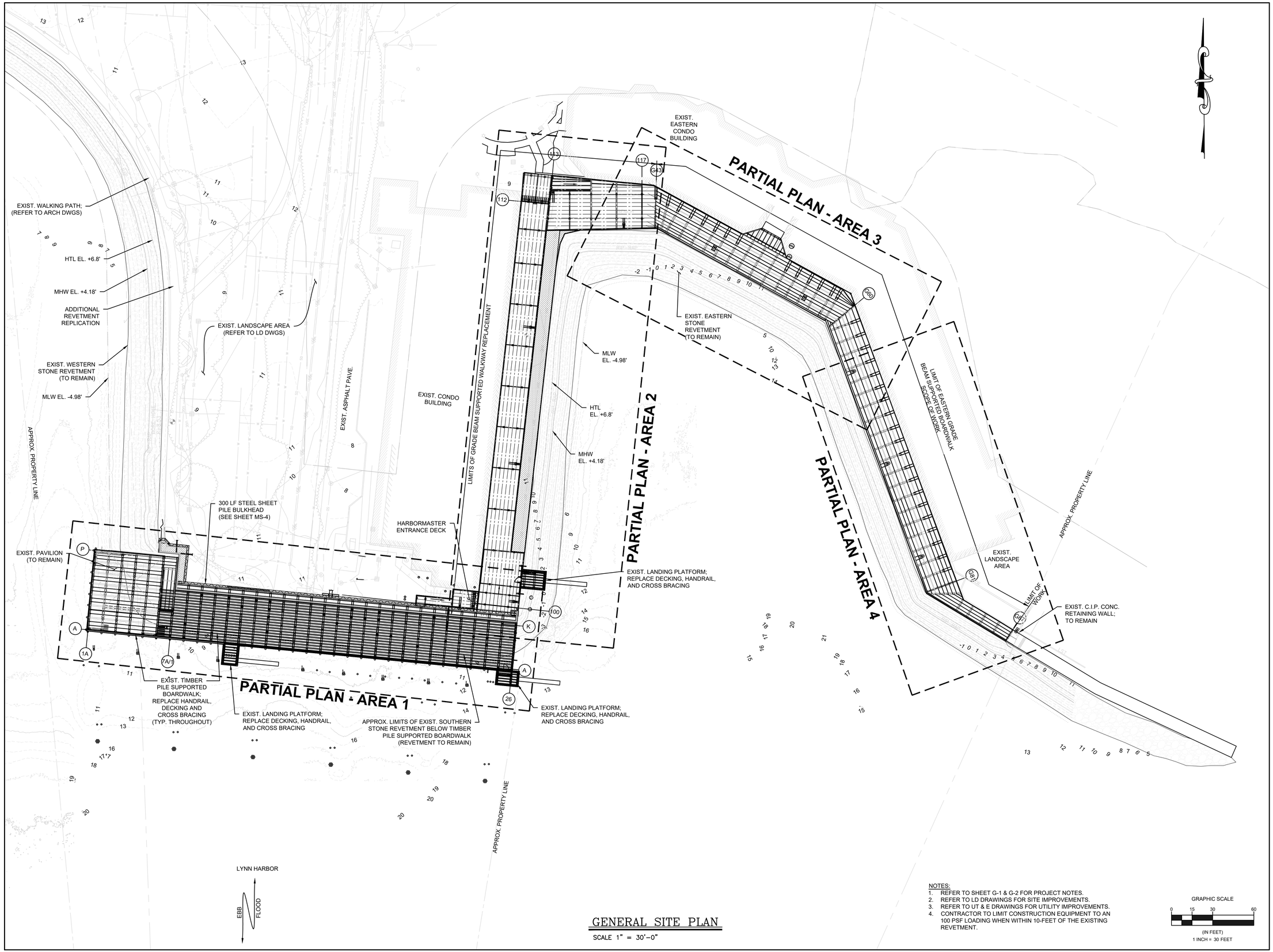
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

MS-2



GENERAL SITE PLAN

SCALE 1" = 30'-0"

NOTES:
1. REFER TO SHEET G-1 & G-2 FOR PROJECT NOTES.
2. REFER TO LD DRAWINGS FOR SITE IMPROVEMENTS.
3. REFER TO UT & E DRAWINGS FOR UTILITY IMPROVEMENTS.
4. CONTRACTOR TO LIMIT CONSTRUCTION EQUIPMENT TO AN 100 PSF LOADING WHEN WITHIN 10-FEET OF THE EXISTING REVETMENT.

GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET

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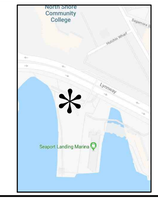
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JENNIFER S. GREEN
CIVIL
No. 48585
REGISTERED PROFESSIONAL ENGINEER
11/7/2025

DRAWING TITLE:

GENERAL SITE PLAN

ACCESSION #:105011x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

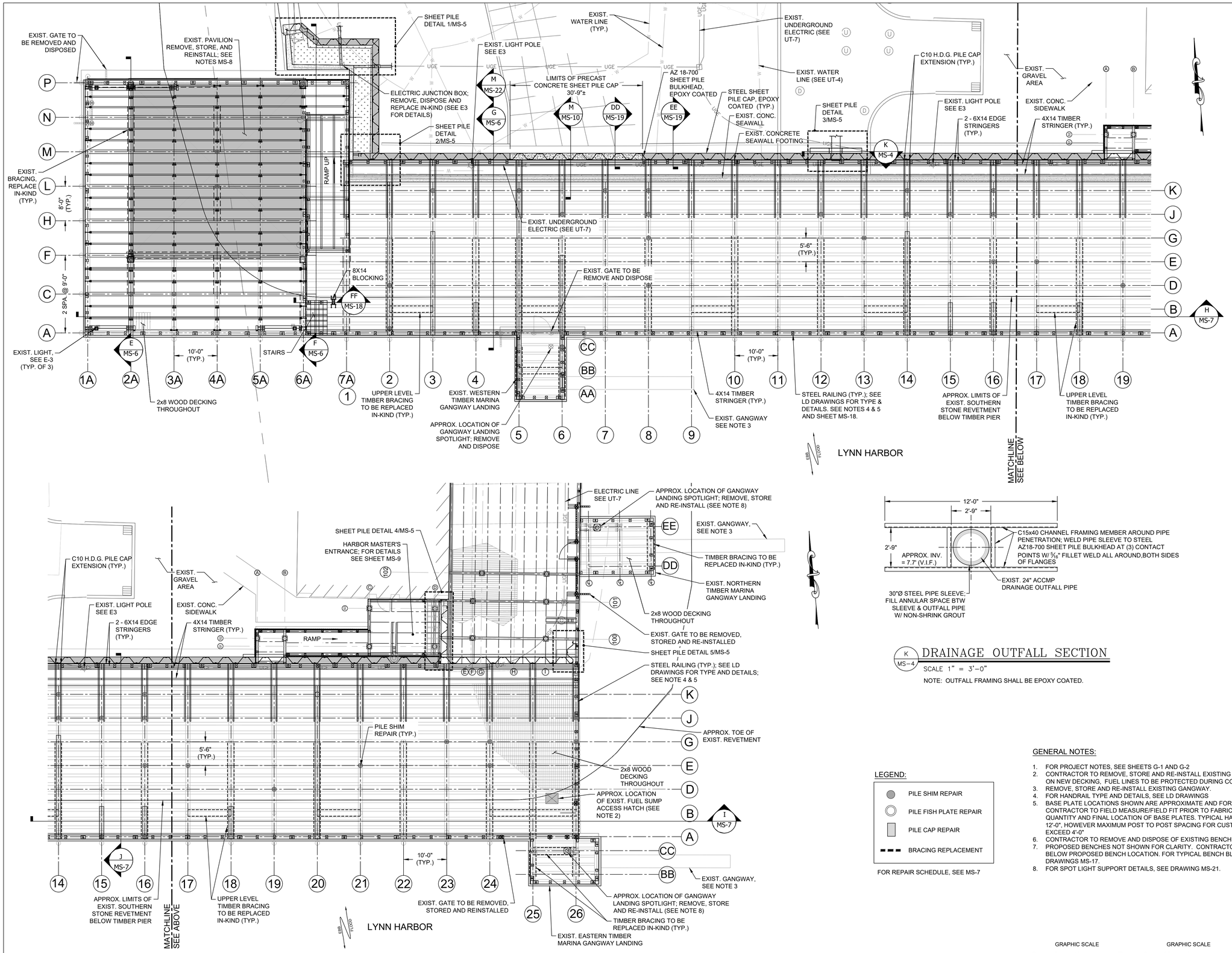
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

MS-3



PARTIAL PLAN – AREA 1

SCALE 1" = 10'–0"

DRAINAGE OUTFALL SECTION

SCALE 1" = 3'–0"

NOTE: OUTFALL FRAMING SHALL BE EPOXY COATED.

LEGEND:

- PILE SHIM REPAIR
- PILE FISH PLATE REPAIR
- PILE CAP REPAIR
- BRACING REPLACEMENT

FOR REPAIR SCHEDULE, SEE MS-7

GENERAL NOTES:

1. FOR PROJECT NOTES, SEE SHEETS G-1 AND G-2
2. CONTRACTOR TO REMOVE, STORE AND RE-INSTALL EXISTING FUEL SUMP ACCESS HATCH ON NEW DECKING, FUEL LINES TO BE PROTECTED DURING CONSTRUCTION ACTIVITIES.
3. REMOVE, STORE AND RE-INSTALL EXISTING GANGWAY.
4. FOR HANDRAIL TYPE AND DETAILS, SEE LD DRAWINGS
5. BASE PLATE LOCATIONS SHOWN ARE APPROXIMATE AND FOR BIDDING PURPOSES ONLY. CONTRACTOR TO FIELD MEASURE/FIELD FIT PRIOR TO FABRICATION TO CONFIRM TOTAL QUANTITY AND FINAL LOCATION OF BASE PLATES. TYPICAL HANDRAIL PANEL SPACING IS 12'-0", HOWEVER MAXIMUM POST TO POST SPACING FOR CUSTOM SECTIONS SHALL NOT EXCEED 4'-0"
6. CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING BENCHES.
7. PROPOSED BENCHES NOT SHOWN FOR CLARITY. CONTRACTOR TO PROVIDE BLOCKING BELOW PROPOSED BENCH LOCATION. FOR TYPICAL BENCH BLOCKING DETAILS, SEE DRAWINGS MS-17.
8. FOR SPOT LIGHT SUPPORT DETAILS, SEE DRAWING MS-21.

GRAPHIC SCALE
0 5 10 20
(IN FEET)
1 INCH = 10 FEET

GRAPHIC SCALE
0 1.5 3 6
(IN FEET)
1 INCH = 3 FEET

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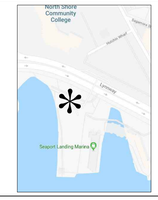
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WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JENNIFER S. GREEN
CIVIL
No. 48585
REGISTERED PROFESSIONAL ENGINEER
11/7/2025

DRAWING TITLE:

PARTIAL PLAN AREA 1

ACCESSION #:105012x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

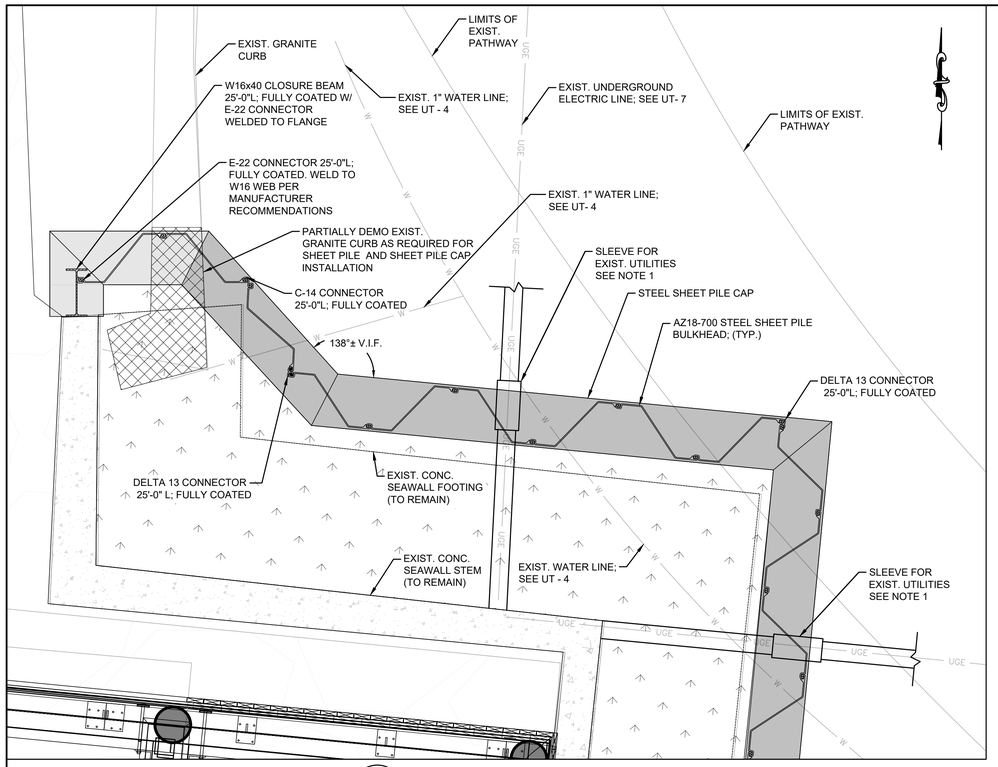
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

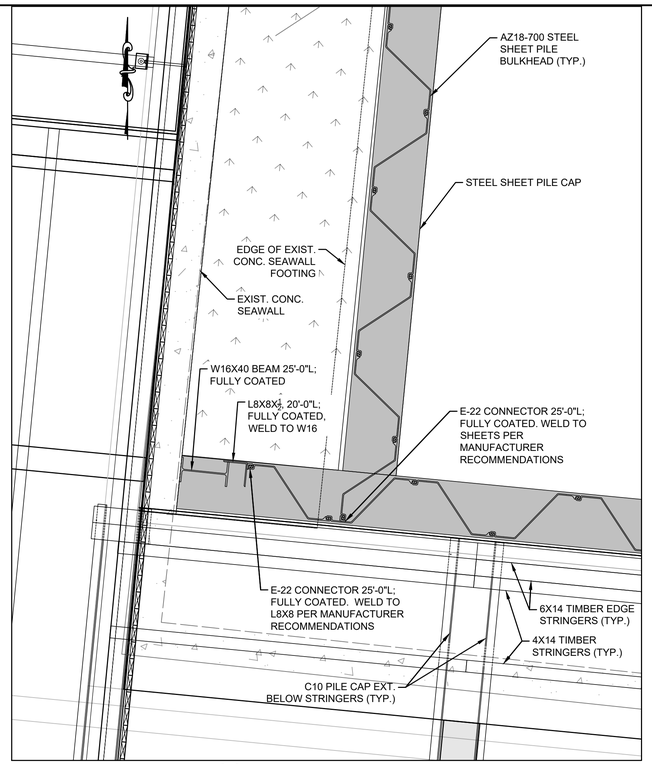
DRAWING NO.

MS-4



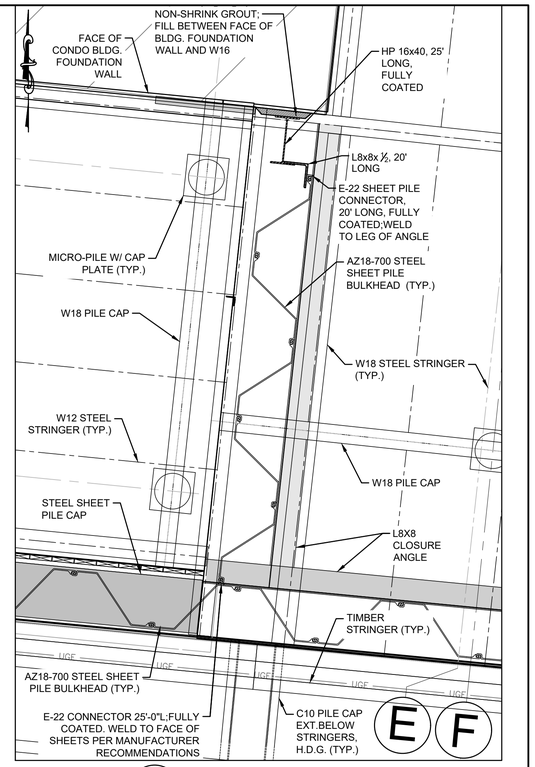
1 MS-4 SHEET PILE DETAIL
SCALE 1" = 2'-0"

NOTE: DECKING AND HANDRAIL NOT SHOWN FOR CLARITY



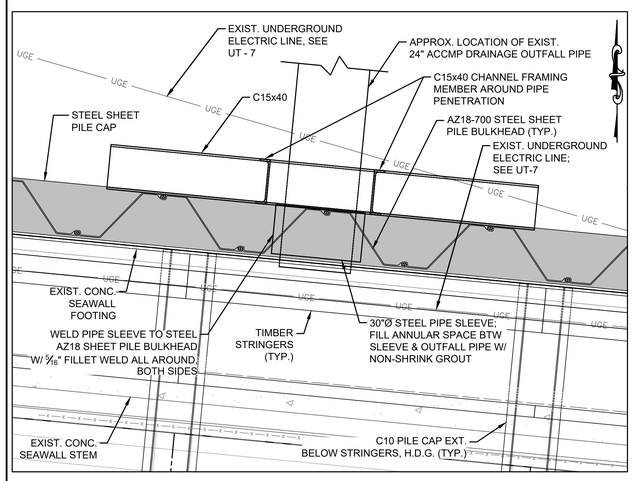
2 MS-4 SHEET PILE DETAIL
SCALE 1" = 2'-0"

NOTE: DECKING AND HANDRAIL NOT SHOWN FOR CLARITY



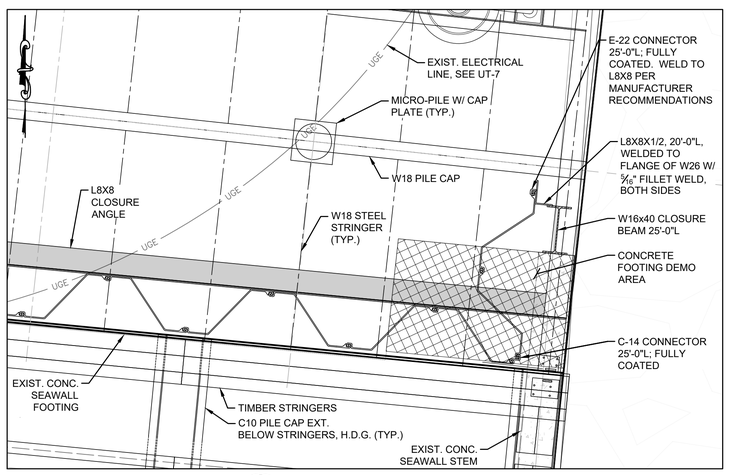
4 MS-4 SHEET PILE DETAIL
SCALE 1" = 2'-0"

NOTE: DECKING, STAIRS, AND HANDRAIL NOT SHOWN FOR CLARITY



3 MS-4 SHEET PILE DETAIL
SCALE 1" = 2'-0"

NOTE: DECKING AND HANDRAIL NOT SHOWN FOR CLARITY



5 MS-4 SHEET PILE DETAIL
SCALE 1" = 2'-0"

NOTE: DECKING AND HANDRAIL NOT SHOWN FOR CLARITY

NOTES:
1. ANY LOCATION WHERE A SLEEVE IS REQUIRED FOR EXISTING UTILITIES THAT NEED TO EXTEND THROUGH THE BULKHEAD SHOULD BE AS FOLLOWS:
   - 1.A. NEAT CUT PENETRATION IS STEEL BULKHEAD AS REQUIRED TO EXTEND UTILITY THROUGH BULKHEAD.
   - 1.B. PROVIDE A STANDARD WALL, STEEL PIPE SLEEVE AT SHEET PILE PENETRATION, SIZED TO FIT TIGHT WITH PENETRATION.
   - 1.C. COAT UTILITY PIPE SLEEVES WITH THE SAME PROTECTIVE COATING PRODUCT TO MATCH THE COATING APPLIED TO STEEL SHEETS.
   - 1.D. WELD AROUND THE OUTSIDE PERIMETER OF THE SLEEVE WITH A MINIMUM 5/16" FILLET WELD.
   - 1.E. AFTER WELDING, TOUCH-UP PROTECTIVE COATING ON SHEETS AND SLEEVE.
2. AFTER TOUCH-UP, SEAL AROUND UTILITY PIPE SLEEVE WITH SEALANT OR HIGH BUILD EPOXY. CONTRACTOR TO SUBMIT PROPOSED PRODUCT FOR ENGINEER REVIEW AND APPROVAL.
3. STEEL SHEET PILES SHALL BE EPOXY COATED ON BOTH SIDES, FOR THE TOP 10-FEET.
4. STEEL SHEET PILE CONNECTORS, CLOSURE BEAMS, AND CLOSURE ANGLES SHALL BE EPOXY COATED, FULL LENGTH.
5. SHEET PILE CAP SHALL BE EPOXY COATED.
6. OUTFALL FRAMING SHALL BE EPOXY COATED.

GRAPHIC SCALE
0 1 2 4
(IN FEET)
1 INCH = 2 FEET

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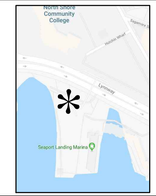
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Lynn, MA

for the Department of Conservation and Recreation

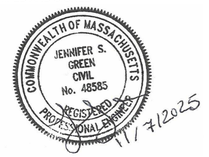
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

AREA 1
SHEET PILE DETAILS

ACCESSION #:105013x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

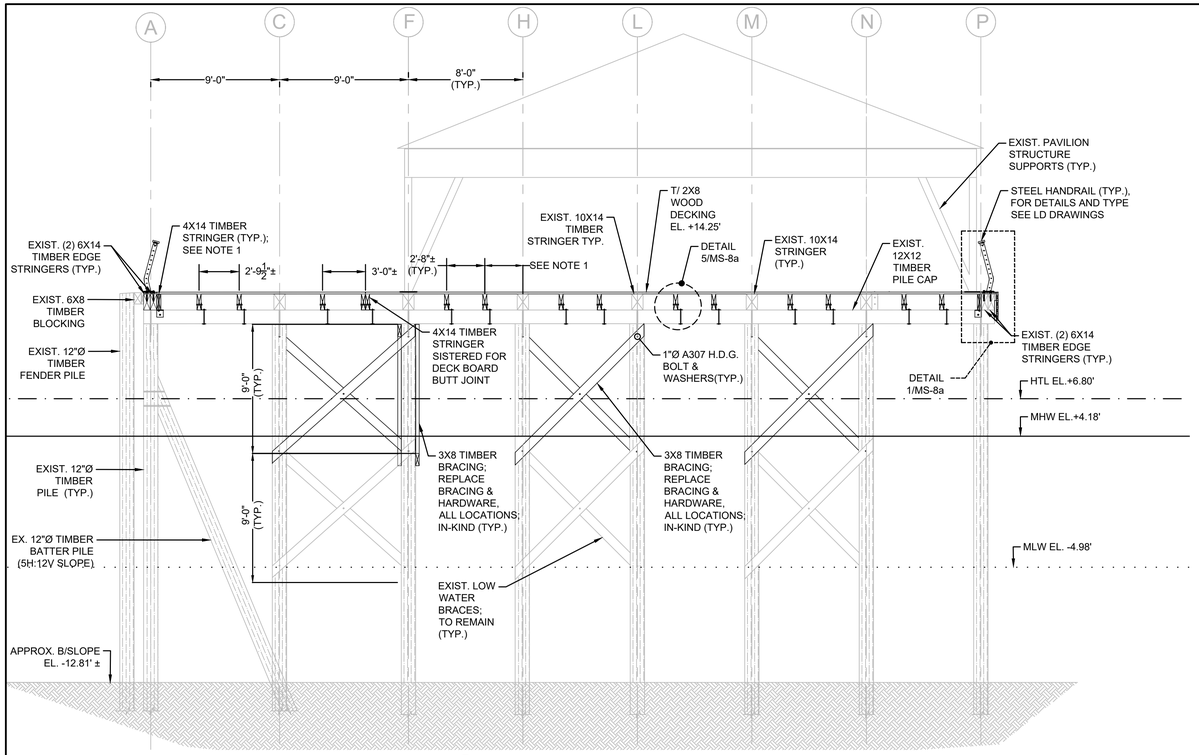
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

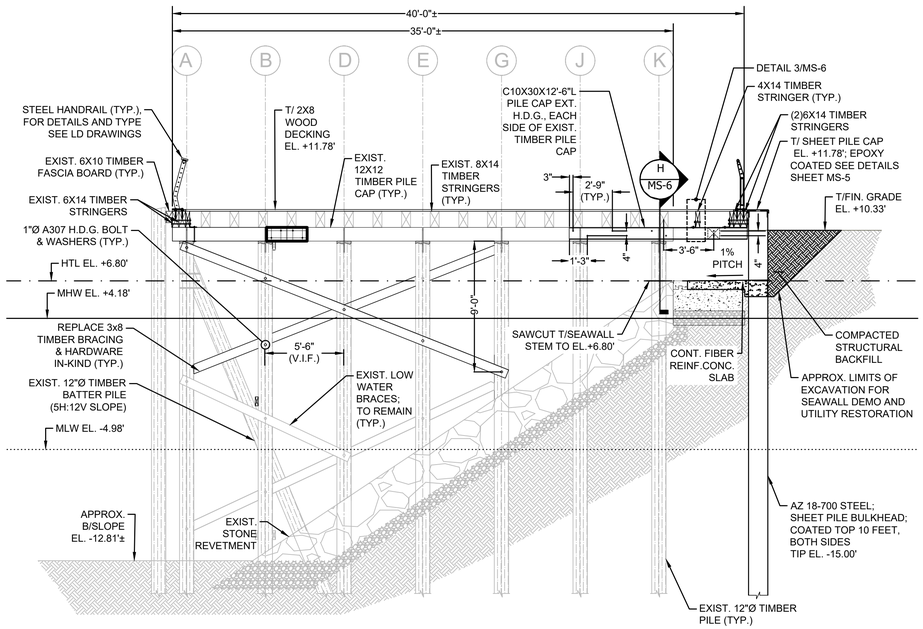
DRAWING NO.

MS-5



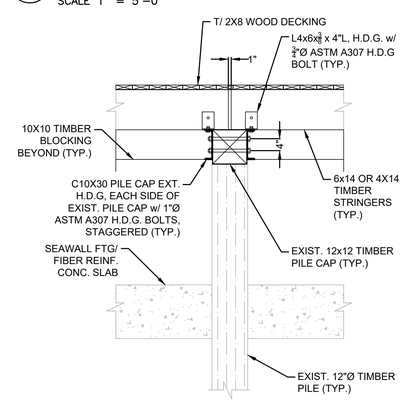
E MS–4 SECTION THROUGH PAVILION

SCALE 1" = 5'–0"



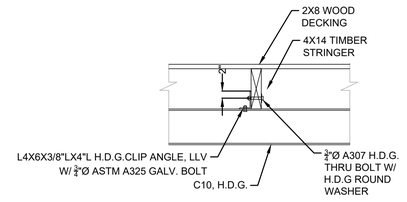
G MS–4 PILE SUPPORTED PIER SECTION

SCALE 1" = 5'–0"



H MS–6 PILE SUPPORTED PIER SECTION

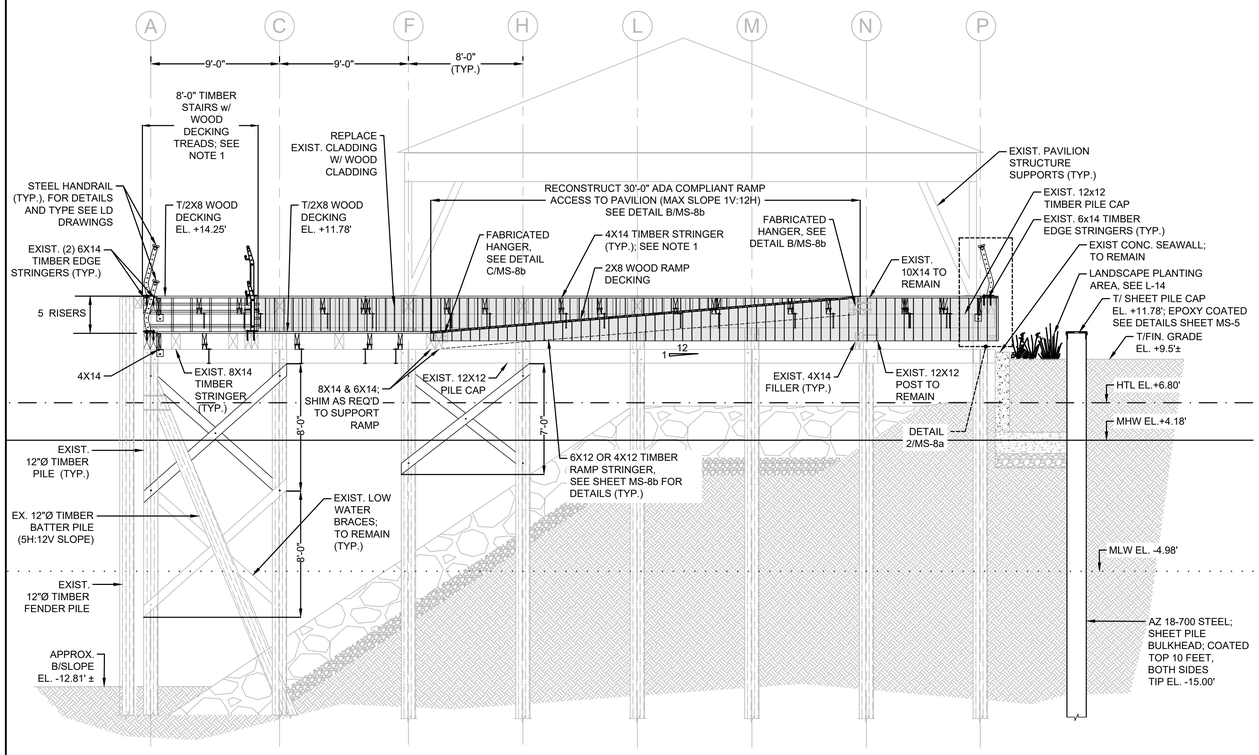
SCALE 1" = 2'–0"



TYPICAL TIMBER STRINGER CONNECTION DETAIL AT C10 CHANNEL

3 MS–6

SCALE 1" = 2'–0"



F MS–4 SECTION THROUGH PAVILION RAMP

SCALE 1" = 5'–0"

NOTES:

1. NEW TIMBER STRINGERS SHALL BE INSTALLED TO ENSURE THAT MAXIMUM SPAN FOR 2x8 WOOD DECKING DOES NOT EXCEED 36", CENTER TO CENTER OF EXISTING AND PROPOSED TIMBER STRINGERS.
2. RAILING AND PAVILION STRUCTURE, DETAILS NOT SHOWN FOR CLARITY. SEE LD DRAWINGS FOR HANDRAIL AND BASE PLATE DETAILS.

GRAPHIC SCALE

0 1 2 4

(IN FEET)

1 INCH = 2 FEET

GRAPHIC SCALE

0 2.5 5 10

(IN FEET)

1 INCH = 5 FEET

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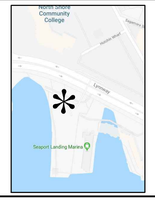
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Lynn, MA

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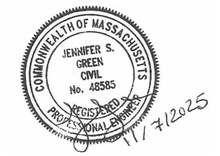
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

AREA 1 BOARDWALK SECTIONS
SHEET 1 OF 2

ACCESSION #:105014x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

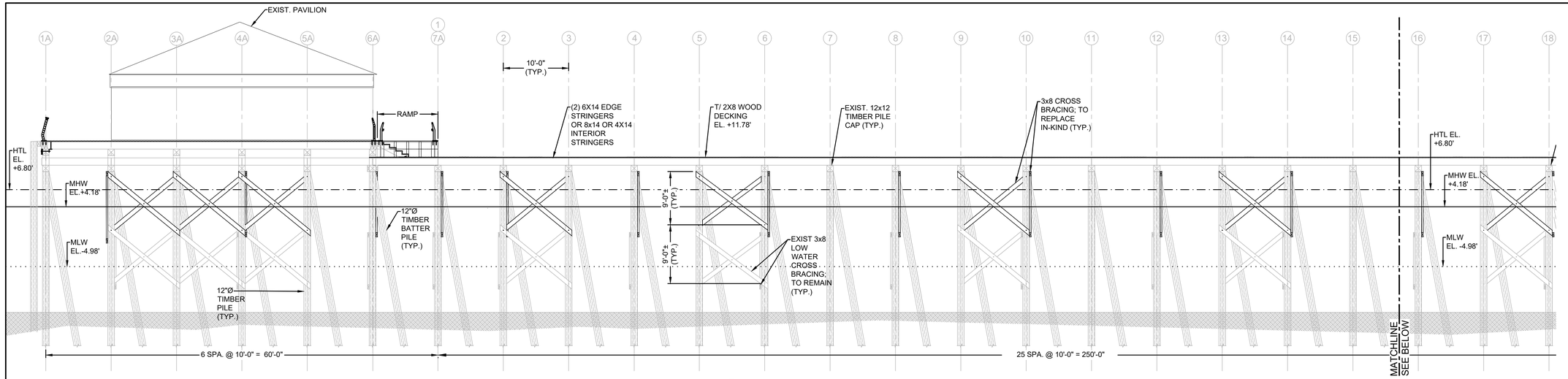
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

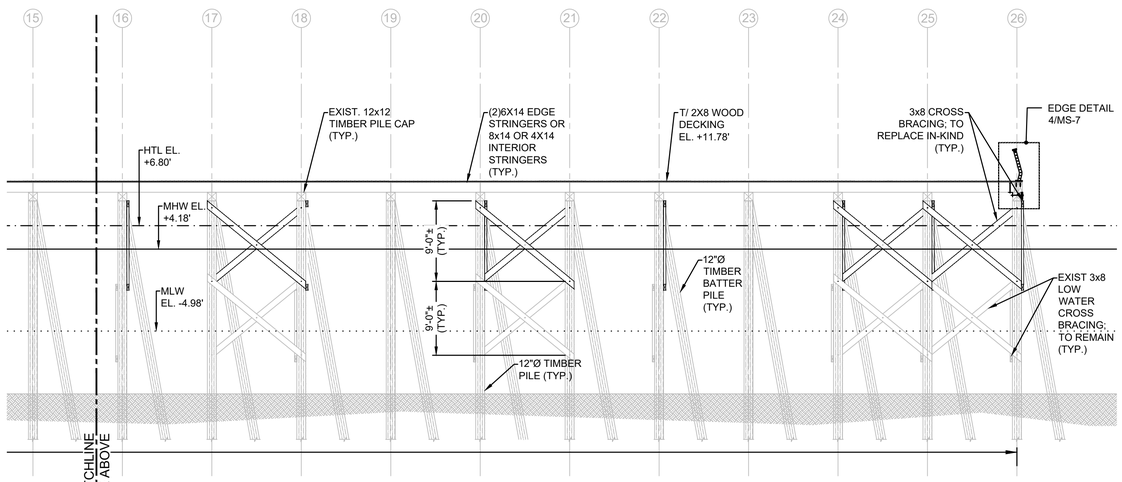
SUBMISSION: BID SET

DRAWING NO.

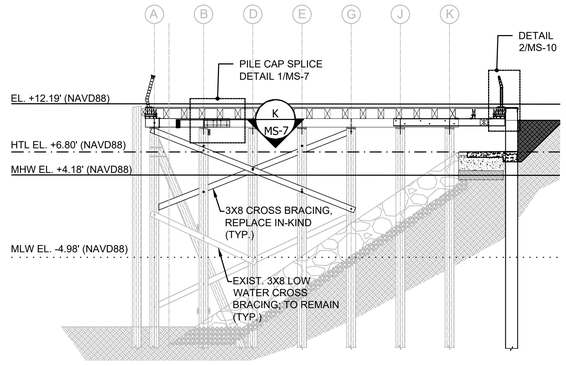
MS-6



H MS–4 TIMBER BRACING SECTION
SCALE 1" = 8'–0"



I MS–4 TIMBER BRACING SECTION
SCALE 1" = 8'–0"



J MS–4 TYPICAL PILE CAP REPAIR SECTION
SCALE 1" = 8'–0"

NOTES:
1. SECTION SHOWS ONE (1) SPLICE. PILE CAP REPAIR LOCATIONS VARY. SEE PILE CAP REPAIR SCHEDULE (THIS SHEET) FOR SPLICE LOCATIONS.

12x12 TIMBER PILE SUPPORTED BOARDWALK PILE CAP REPAIRS (SEE DETAIL 1)			
BENT NUMBER	PILE CAP SPAN	ESTIMATED REPAIR LENGTH (LF)	NOTES
20	A-K	35	FULL LENGTH, (1) SPLICE PERMITTED
18	A-B	8	SPLICE NEW SECTION
16	A-B	8	SPLICE NEW SECTION
15	A-B	8	SPLICE NEW SECTION
14	A-E	19	SPLICE NEW SECTION
6	AA-E	33.5	(1) Splice Permitted, No splice permitted between Bents AA to B
5	AA-K	51	FULL LENGTH (2) SPLICES PERMITTED, NOT SPLICES PERMITTED BETWEEN BENTS AA TO B
4	A-B	8	SPLICE NEW SECTION
3	A-G	24.5	(1) SPLICE PERMITTED
2	A-K	35	FULL LENGTH, (1) SPLICE PERMITTED

6x14 TIMBER PILE SUPPORTED BOARDWALK STRINGER REPLACEMENT			
BENT NUMBER	STRINGER SPAN	ESTIMATED REPAIR LENGTH (LF)	NOTES
TBD	TBD	360	36 LOCATIONS @ 10 LF EA, QUANTITY RESERVED FOR TIMBER STRINGERS DAMAGED DURING PILE CAP REPLACEMENT

NOTES:
1. CONTRACTOR TO REMOVE, STORE AND RE-INSTALL EXISTING TIMBER STRINGERS AT PILE CAP REPLACEMENT LOCATIONS.

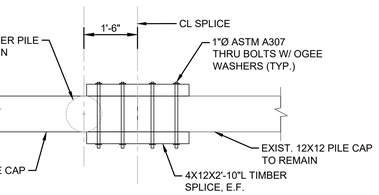
TIMBER PILE SUPPORTED BOARDWALK PILE SHIM REPAIR (EA) (SEE DETAIL 3)	
Location	Location
1A-A	9-K
2A-F	12-J
3A-F	13-G
4A-L	14-J
4A-M	14-K
5A-A	15-A
5A-M	15-J
6A-L	17-E
6A-N	16-A
6A-P	16-E
7A-P	16-J
2-A	16-K
2-C	17-E
3-K	19-D
5-K	21-E
6-CC	23-G
6-J	24-E
7-K	24-G
9-D	26-G
9-G	26-J
9-J	
TOTAL	41

TIMBER PILE SUPPORTED BOARDWALK FISH PLATE CONNECTION REPAIR (EA) (SEE DETAIL 2)	
20-K	1 EA

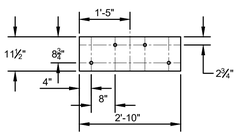
NOTES:
1. QUANTITY WILL BE FIELD DETERMINED BASED ON EXISTING CONDITIONS AFTER DEMOLITION OF DECKING AND PILE CAPS WORK IS COMPLETE.

GENERAL NOTES:

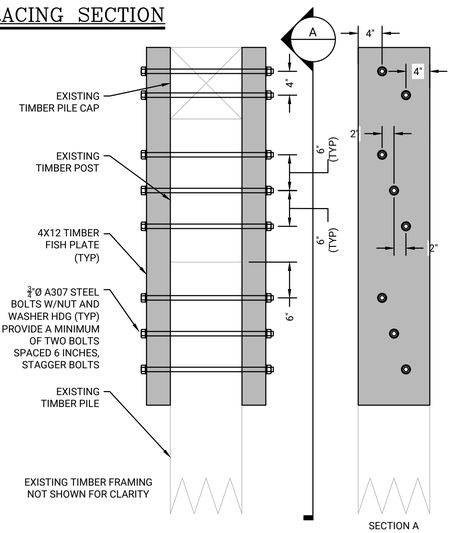
1. NEW TIMBER STRINGERS SHALL BE INSTALLED TO ENSURE THAT MAXIMUM SPAN FOR HARDWOOD DECKING DOES NOT EXCEED 36", CENTER TO CENTER OF EXISTING AND PROPOSED TIMBER STRINGERS.



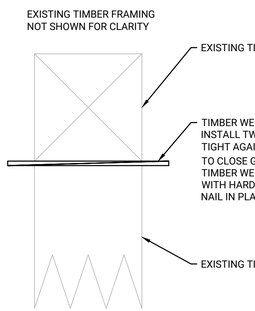
K MS–7 PILE CAP SPLICE SECTION
SCALE 1" = 2'–0"



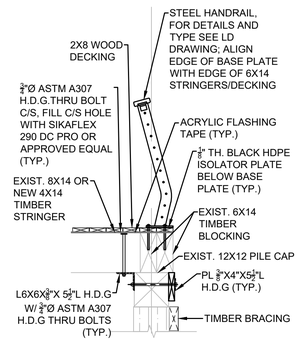
1 MS–7 PILE CAP SPLICE DETAIL
SCALE 1" = 2'–0"



2 MS–7 TYPICAL TIMBER FISH PLATE DETAIL
SCALE 1" = 1'–0"



3 MS–7 TYPICAL TIMBER PILE SHIM DETAIL
SCALE 1 1/2" = 1'–0"



4 MS–7 TYPICAL BENT 26 EDGE DETAIL
SCALE 1 1/2" = 1'–0"

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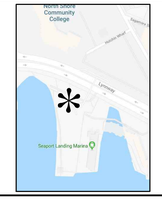
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Lynn, MA

for the Department of Conservation and Recreation

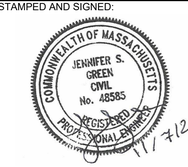
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

AREA 1 BOARDWALK SECTIONS
SHEET 2 OF 2

ACCESSION #:105015x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

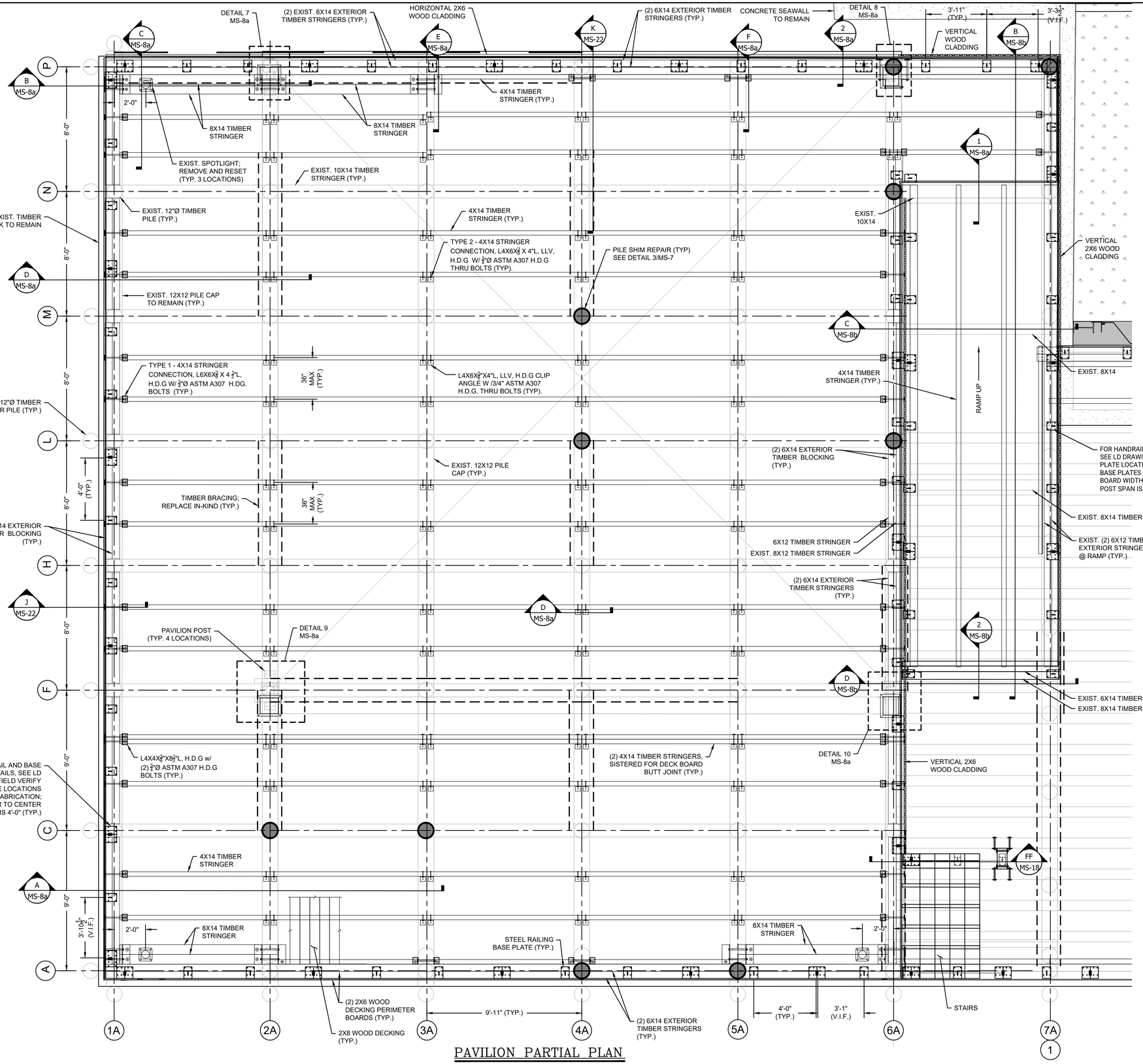
MS-7

GRAPHIC SCALE
0 1/2 1 2
(IN FEET)
1-1/2 INCH = 1'-0"

GRAPHIC SCALE
0 0.5 1 2
(IN FEET)
1 INCH = 1 FEET

GRAPHIC SCALE
0 1 2 4
(IN FEET)
1 INCH = 2 FEET

GRAPHIC SCALE
0 4 8 16
(IN FEET)
1 INCH = 8 FEET



PAVILION PARTIAL PLAN

SCALE 1" = 3'-0"

GRAPHIC SCALE

0 1.5 3 6

(IN FEET)

1 INCH = 3 FEET

GENERAL NOTES:

1. CONTRACTOR TO FIELD MEASURE PAVILION SUPPORT POST BASE PLATES PRIOR TO FABRICATION. FOR HANDRAIL AND BASE PLATE DETAILS, SEE LD DRAWINGS.

TEMPORARY PAVILION REMOVAL AND REINSTALLATION OF NOTES:

1. THE PAVILION SHADE STRUCTURE (POSTS, FRAME AND ROOF) SHALL BE TEMPORARILY REMOVED AND STORED ON SITE UNTIL AFTER NEW WOOD DECKING IS INSTALLED.
2. CONTRACTOR SHALL SHORE UP AND BRACE EXISTING STRUCTURE AS REQUIRED FOR TEMPORARY REMOVAL, STORAGE AND RE-INSTALLATION.
3. PRIOR TO INSTALLATION OF SHORING AND BRACING, CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS WITH PHOTOGRAPHS, NOTING ANY DEFECTS OBSERVED.
4. PAVILION STRUCTURE SHALL BE STORED IN A SECURE AREA UNTIL RE-INSTALLATION OCCURS.
5. BRACING/SHORING SHALL BE INSTALLED SUCH THAT IT IS REMOVABLE. ANY DAMAGE THAT OCCURS TO THE PAVILION STRUCTURE, AS A RESULT OF THIS WORK ACTIVITY, SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
6. CONTRACTOR SHALL SUBMIT A SHORING AND LIFTING PLAN FOR ENGINEER REVIEW, AT LEAST 14 DAYS PRIOR TO REMOVAL.
7. SHORING, BRACING, AND LIFTING PLAN SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MASSACHUSETTS.

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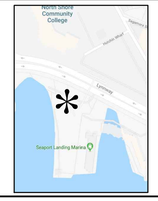
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JENNIFER S. GREEN
CIVIL
No. 48585
REGISTERED PROFESSIONAL ENGINEER
11/7/2025

DRAWING TITLE:

AREA 1 PAVILION PLAN

ACCESSION #:105016x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

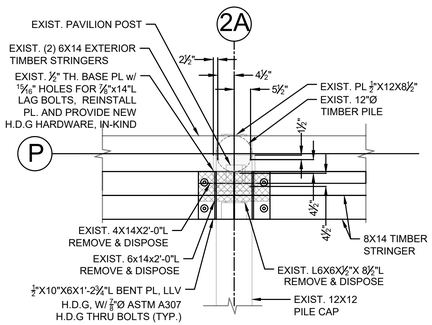
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

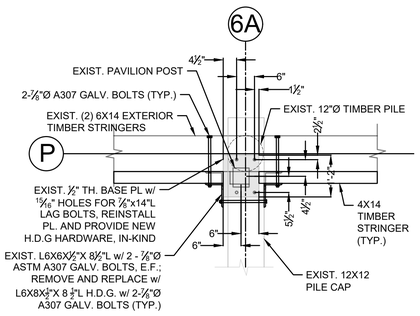
MS-8



MODIFIED PAVILION BASE PLATE DETAIL BENT 2A/P

7 / MS-8

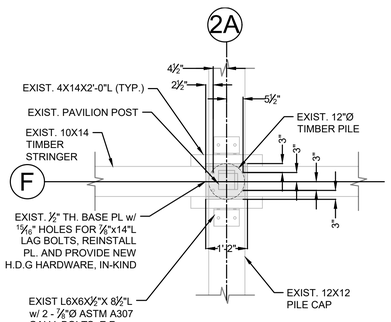
SCALE 1/2" = 1'-0"



MODIFIED PAVILION BASE PLATE DETAIL BENT 6A/P

8 / MS-8

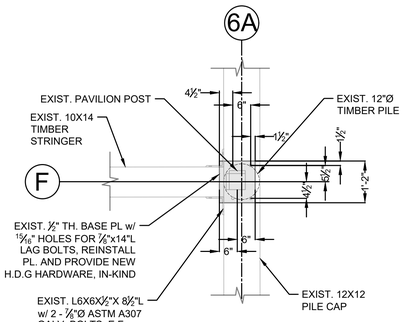
SCALE 1/2" = 1'-0"



EXISTING PAVILION BASE PLATE DETAIL BENT 2A/G

9 / MS-8

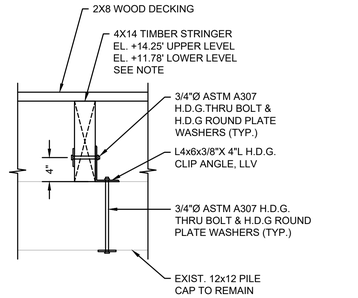
SCALE 1/2" = 1'-0"



EXISTING PAVILION BASE PLATE DETAIL BENT 6A/G

10 / MS-8

SCALE 1/2" = 1-0"

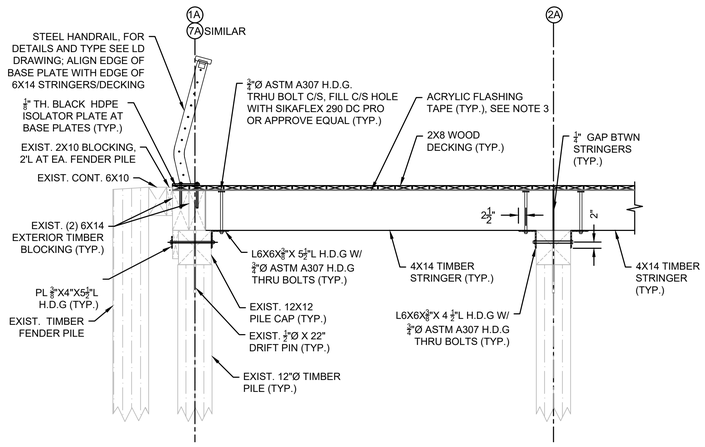


TYPICAL NEW 4X14 STRINGER CONNECTION DETAIL

G / MS-8a

SCALE 1" = 1'-0"

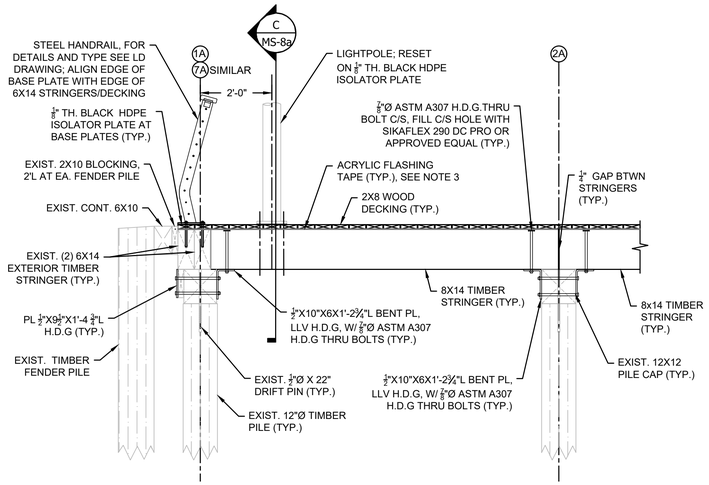
NOTE:
1. SISTERED STRINGER NOT SHOWN; SEE MS-8 FOR LOCATION OF SISTERED STRINGER BETWEEN BENTS C AND F.



TYPICAL SECTION AT 4X14 TIMBER EDGE STRINGERS

A / MS-8

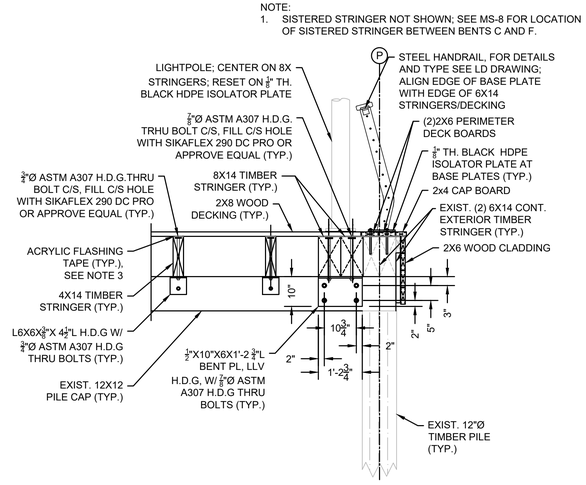
SCALE 1/2" = 1'-0"



EDGE SECTION AT LIGHTPOLE & 8X14 TIMBER STRINGERS

B / MS-8

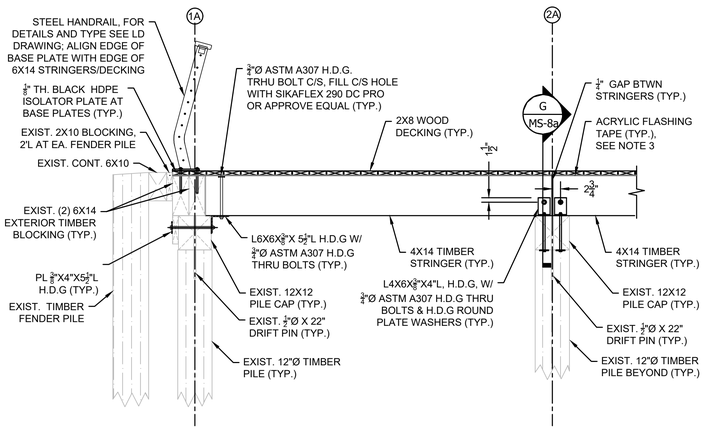
SCALE 1/2" = 1'-0"



TYPICAL 8X14 CONNECTION SECTION AT LIGHT POLE

C / MS-8

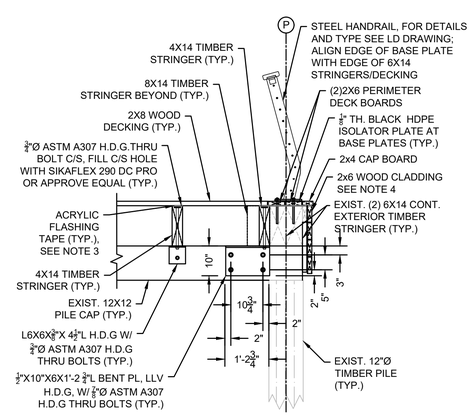
SCALE 1/2" = 1'-0"



TYPICAL SECTION AT 4X14 TIMBER STRINGERS

D / MS-8

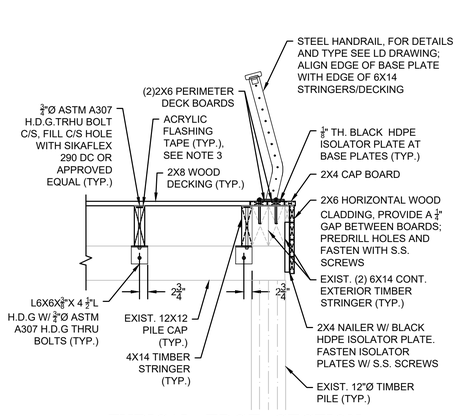
SCALE 1/2" = 1'-0"



EDGE SECTION AT 8X14/4X14 TRANSITION

E / MS-8

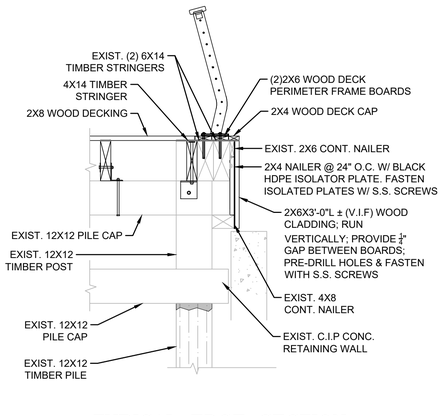
SCALE 1/2" = 1'-0"



TYPICAL EDGE SECTION @ HORIZONTAL CLADDING

F / MS-8

SCALE 1/2" = 1'-0"



TYPICAL EDGE SECTION @ VERTICAL CLADDING

2 / MS-8a

SCALE 1/2" = 1'-0"

GRAPHIC SCALE
0 0.5 1 2
(IN FEET)
1 INCH = 1 FEET

GRAPHIC SCALE
0 1 2 4
(IN FEET)
1/2 INCH = 1 FEET

GENERAL NOTES:
1. CONTRACTOR TO FIELD MEASURE PAVILION SUPPORT POST BASE PLATES PRIOR TO FABRICATION. FOR HANDRAIL AND BASE PLATE DETAILS, SEE LD DRAWINGS.
2. ALL COUNTERSUNK BOLTS SHALL BE FILLED WITH SIKAFLEX 290 DC PRO OR APPROVED EQUAL.
3. PROVIDE SOLVENT RESISTANT FLASHING TAPE (G-TAPE OR APPROVED EQUAL) CONTINUOUS AND FULL WIDTH ALONG TOP OF PT TIMBER STRINGERS.
4. PROVIDE ¾" THICK BLACK HDPE ISOLATOR PLATES AT ALL CLADDING INTERFACE SURFACES WITH PT BLOCKING/FRAMING. FASTEN HDPE PLATES W/ S.S. SCREWS.

BROWN, RICHARDSON + ROWE

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BOSTON, MA 02110

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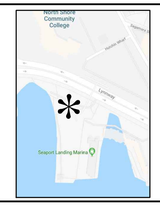
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VETERANS MEMORIAL PARK

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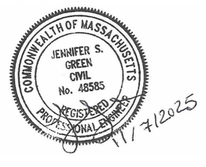
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

AREA 1 PAVILION DETAILS

ACCESSION #:105017x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

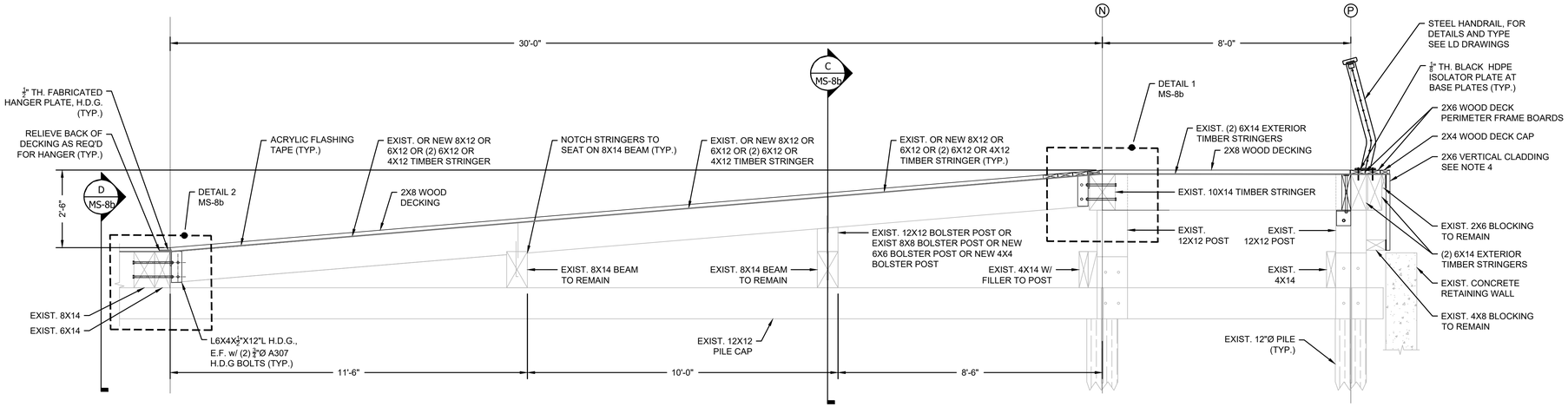
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

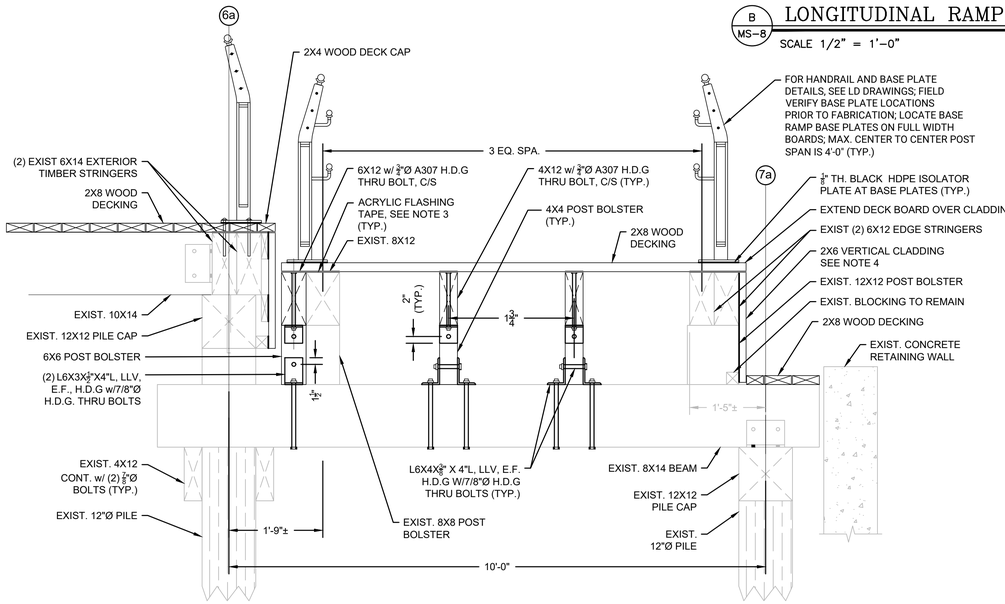
DRAWING NO.

MS-8a



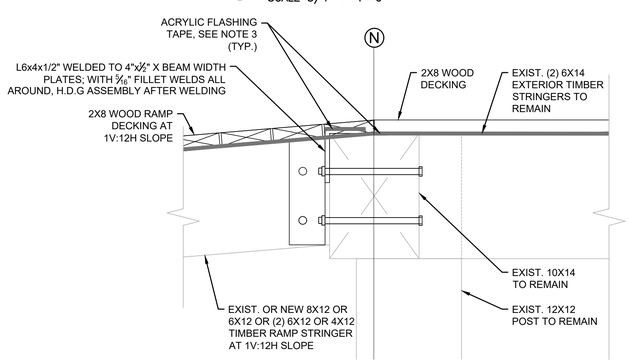
B MS-8 LONGITUDINAL RAMP FRAMING SECTION

SCALE 1/2" = 1'-0"



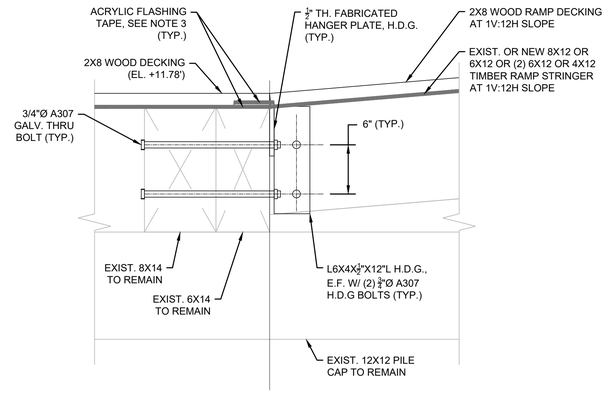
C MS-8 UPPER RAMP FRAMING SECTION

SCALE 3/4" = 1'-0"



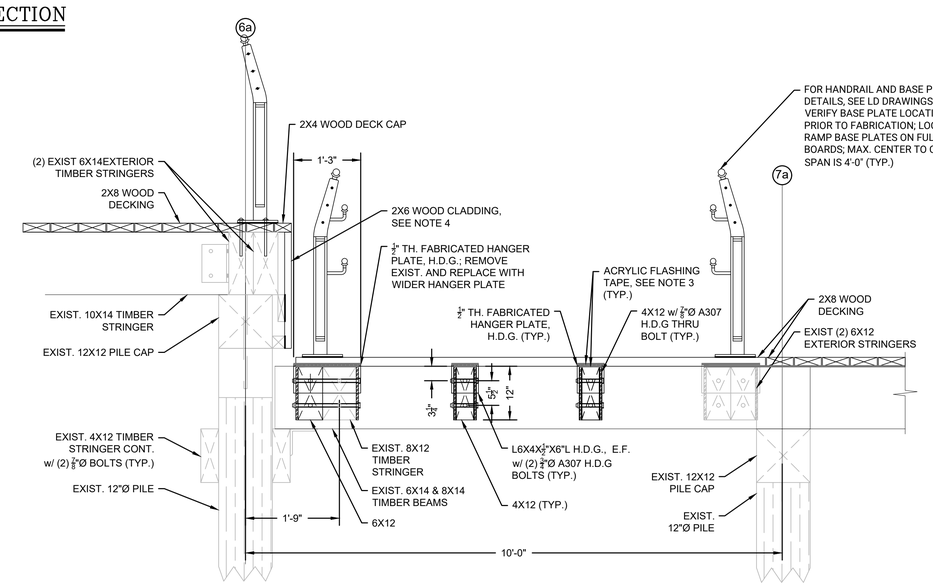
1 MS-8b FABRICATED HANGER DETAIL TOP OF RAMP

SCALE 1-1/2" = 1'-0"



2 MS-8b FABRICATED HANGER DETAIL BOTTOM OF RAMP

SCALE 1-1/2" = 1'-0"



D MS-8 BOTTOM OF RAMP FRAMING SECTION

SCALE 3/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR TO FIELD MEASURE PAVILION SUPPORT POST BASE PLATES PRIOR TO FABRICATION. FOR HANDRAIL AND BASE PLATE DETAILS, SEE LD DRAWINGS.
2. ALL COUNTERSUNK BOLTS SHALL BE FILLED WITH SIKAFLEX 1A SEALANT OR APPROVED EQUAL.
3. PROVIDE SOLVENT RESISTANT FLASHING TAPE (G-TAPE OR APPROVED EQUAL) CONTINUOUS AND FULL WIDTH ALONG TOP OF PT SLEEPERS AND TIMBER STRINGERS.
4. PROVIDE 1/8" TH. BLACK HDPE ISOLATOR PLATES AT ALL CLADDING INTERFACE SURFACES WITH PT BLOCKING/ FRAMING. FASTEN HDPE PLATES W/ S.S SCREWS.

GRAPHIC SCALE
0 ¼ ½ 1 2
(IN FEET)
¼ INCH = 1 FEET

GRAPHIC SCALE
0 1 2 4
(IN FEET)
1/2 INCH = 1 FEET

GRAPHIC SCALE
0 1/2 1 2
(IN FEET)
1-1/2 INCH = 1 FEET

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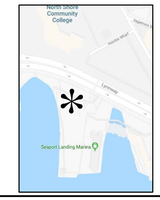
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Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

AREA 1 PAVILION RAMP SECTIONS & DETAILS

ACCESSION #:105018x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

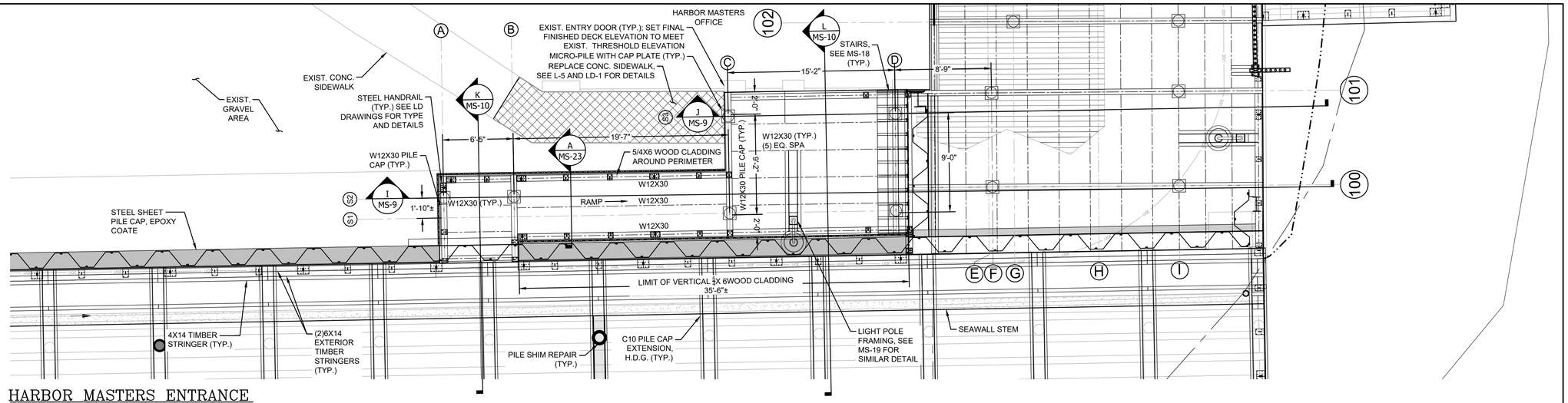
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

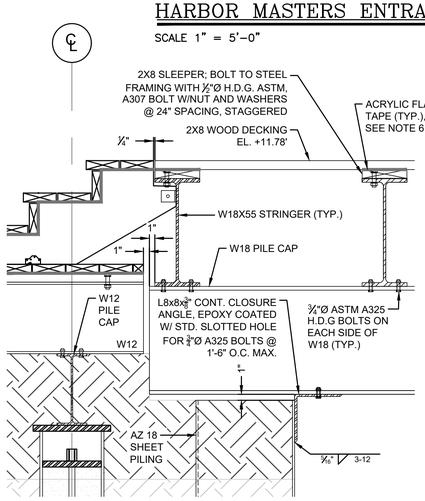
DRAWING NO.

MS-8b



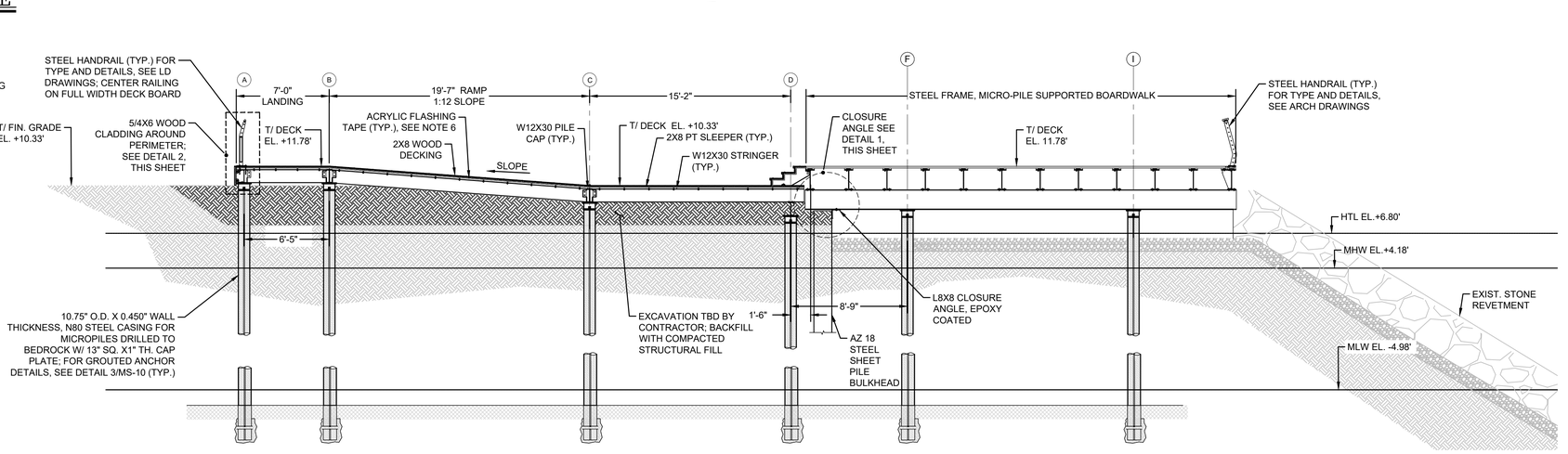
HARBOR MASTERS ENTRANCE

SCALE 1" = 5'-0"



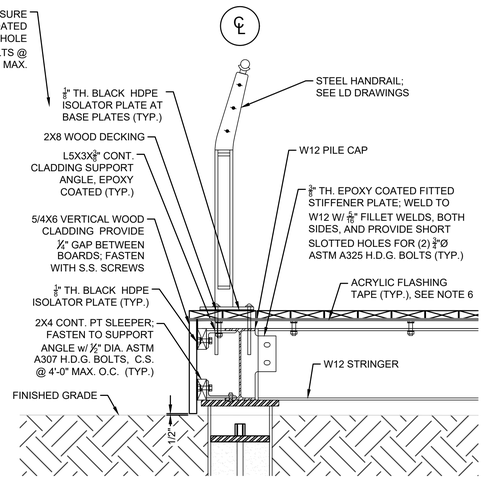
1 MS-9 CLOSURE ANGLE DETAIL

SCALE 1" = 1'-0"



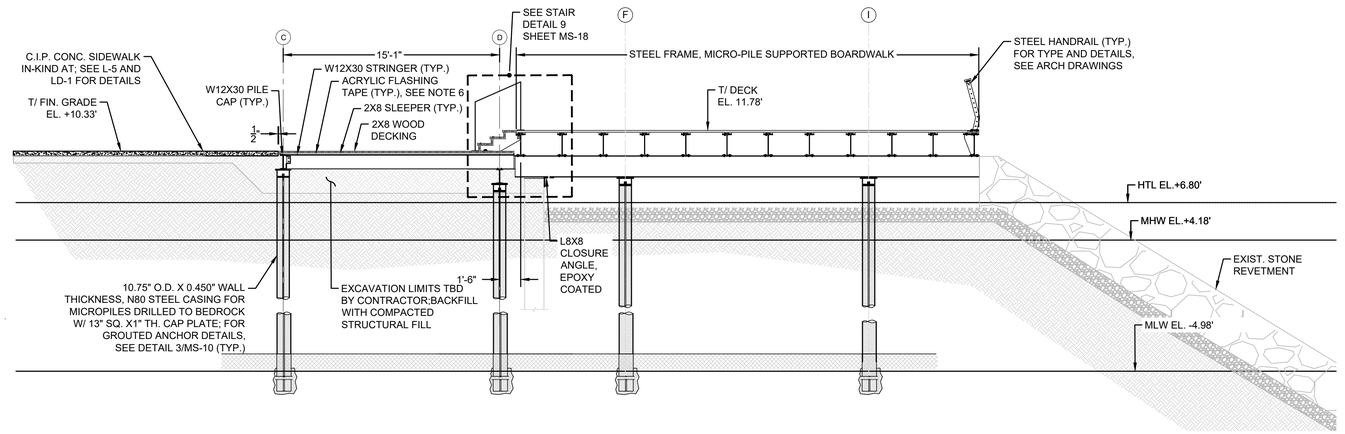
I MS-9 HARBOR MASTERS ENTRANCE DECK SECTION AT RAMP

SCALE 1" = 5'-0"



2 MS-9 CLADDING DETAIL

SCALE 1" = 1'-0"



J MS-9 HARBOR MASTERS ENTRANCE DECK SECTION

SCALE 1" = 5'-0"

GENERAL NOTES:

1. ALL HARBOR MASTER ENTRANCE STRUCTURAL STEEL FRAMING (W12 STRINGERS, W12 PILE CAPS, MICRO PILE CAP PLATES, CONNECTION ANGLES, CONNECTION PLATES, ETC.) SHALL BE EPOXY COATED.
2. ALL MICRO PILE SUPPORTED BOARDWALK STRUCTURAL STEEL FRAMING (W18 STRINGERS, W18 PILE CAPS, MICRO PILE CAP PLATES, CONNECTION ANGLES, ETC.) SHALL BE EPOXY COATED.
3. TOP TWO SECTIONS OF MICRO PILES SHALL BE EPOXY COATED.
4. STEEL SHEET PILES SHALL BE EPOXY COATED ON BOTH SIDES, FOR THE TOP 10-FEET.
5. STEEL SHEET PILE CONNECTORS, CLOSURE BEAMS, AND CLOSURE ANGLES SHALL BE EPOXY COATED, FULL LENGTH.
6. PROVIDE SOLVENT RESISTANT FLASHING TAPE (G-TAPE OR APPROVED EQUAL) CONTINUOUS AND FULL WIDTH ALONG TOP OF PT SLEEPERS AND TIMBER STRINGERS.
7. PROVIDE 1/8" TH. BLACK HDPE ISOLATOR PLATES AT ALL CLADDING INTERFACE SURFACES WITH PT BLOCKING/ FRAMING. FASTEN HDPE PLATES W/ S.S SCREWS.

NOTES:

1. FOR PROJECT NOTES, SEE SHEET G-01 AND G-02.

GRAPHIC SCALE
0 0.5 1 2
(IN FEET)
1 INCH = 1 FEET

GRAPHIC SCALE
0 2.5 5 10
(IN FEET)
1 INCH = 5 FEET

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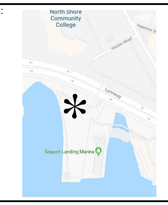
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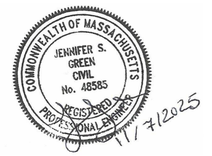
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

AREA 1
HARBOR MASTER PLAN AND SECTIONS

ACCESSION #:105019x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

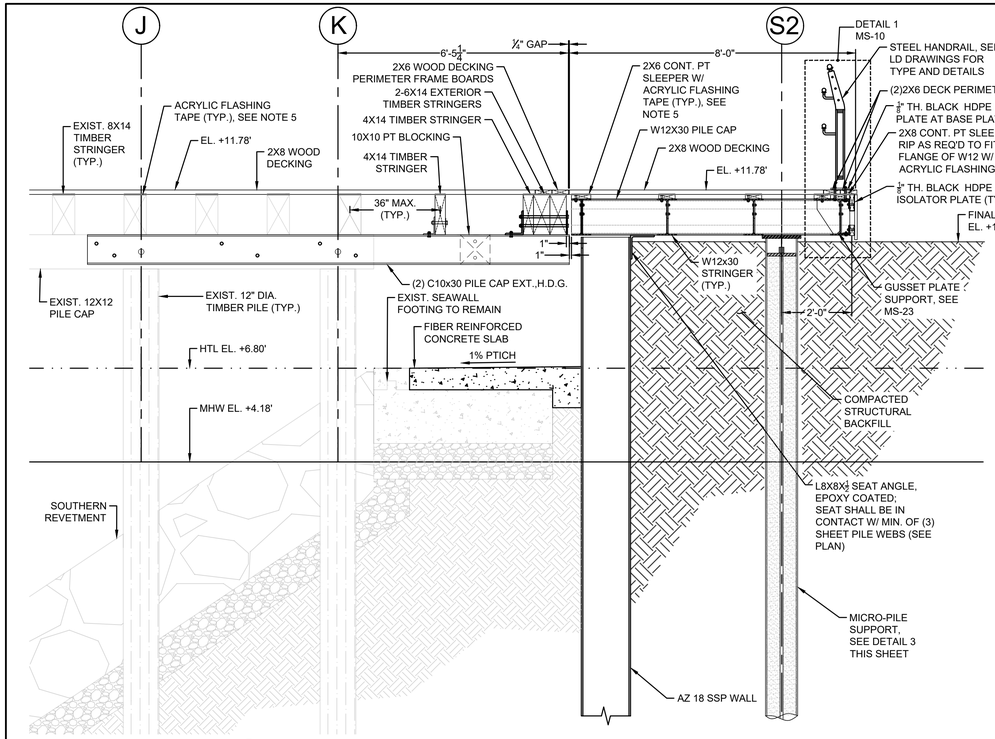
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

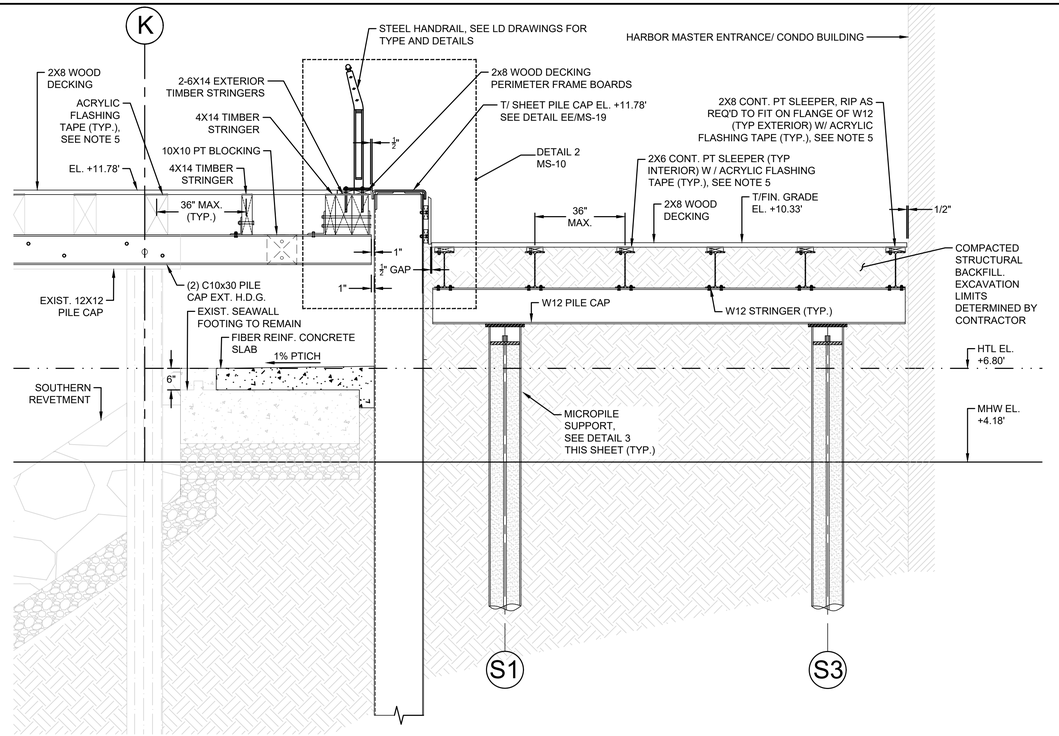
DRAWING NO.

MS-9



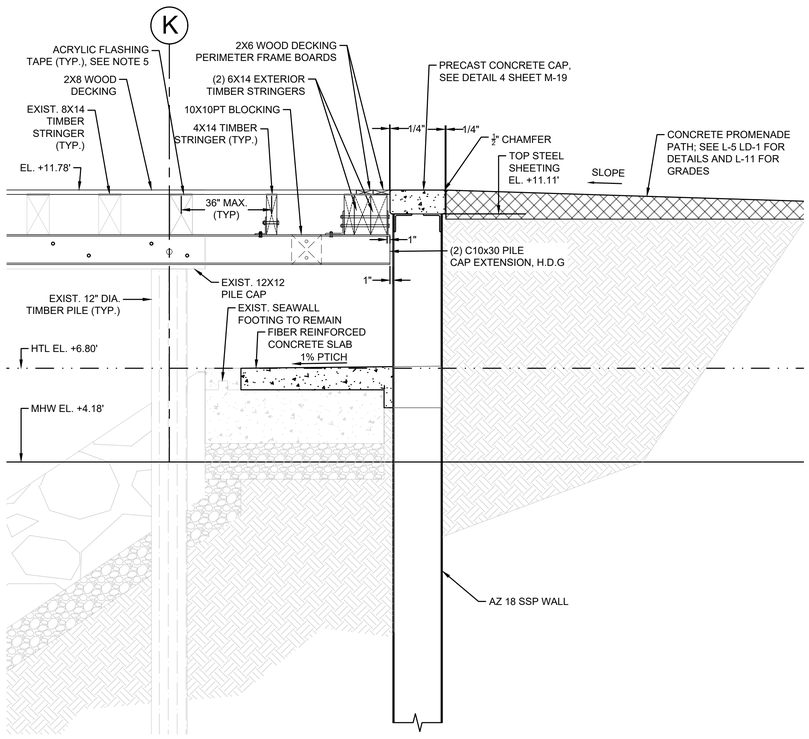
K / MS-9 HARBOR MASTERS ENTRANCE SECTION AT LANDING

SCALE 1" = 2'-0"



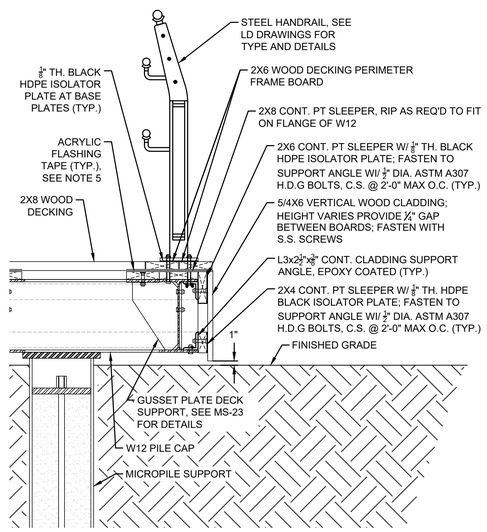
L / MS-9 HARBOR MASTERS ENTRANCE SECTION AT CONDO

SCALE 1" = 2'-0"



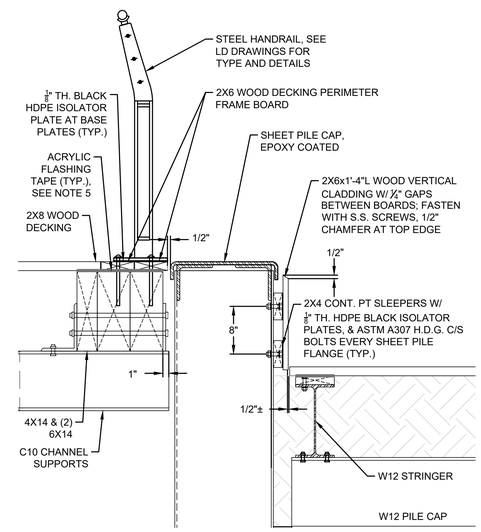
M / MS-4 SECTION THROUGH PRECAST CONCRETE CAP

SCALE 1" = 2'-0"



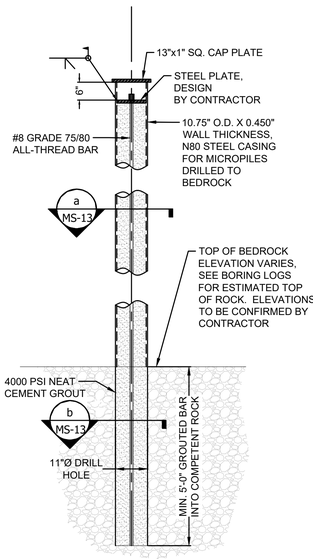
1 / MS-10 DETAIL 1 – VERTICAL CLADDING AT LANDING

SCALE 1" = 1'-0"



2 / MS-10 DETAIL 2 – VERTICAL CLADDING AT SHEET PILE BULKHEAD

SCALE 1" = 1'-0"



3 / – DETAIL 3 – TYPICAL GROUTED MICROPILE ROCK ANCHOR

SCALE 1" = 2'-0"

GRAPHIC SCALE
0 0,5 1 2
(IN FEET)
1 INCH = 1 FEET

GRAPHIC SCALE
0 1 2 4
(IN FEET)
1 INCH = 2 FEET

GENERAL NOTES:

1. ALL HARBOR MASTER ENTRANCE STRUCTURAL STEEL FRAMING (W12 STRINGERS, W12 PILE CAPS, MICRO PILE CAP PLATES, CONNECTION ANGLES, ETC.) SHALL BE EPOXY COATED.
2. TOP TWO SECTIONS OF MICRO PILES SHALL BE EPOXY COATED.
3. STEEL SHEET PILES SHALL BE EPOXY COATED ON BOTH SIDES, FOR THE TOP 10-FEET.
4. STEEL SHEET PILE CONNECTORS, CLOSURE BEAMS, AND CLOSURE ANGLES SHALL BE EPOXY COATED, FULL LENGTH.
5. PROVIDE SOLVENT RESISTANT FLASHING TAPE (G-TAPE OR APPROVED EQUAL) CONTINUOUS AND FULL WIDTH ALONG TOP OF PT SLEEPERS AND TIMBER STRUCTURES.
6. PROVIDE 1/8" TH. BLACK HDPE ISOLATOR PLATES AT ALL CLADDING INTERFACE SURFACES WITH PT BLOCKING/ FRAMING. FASTEN HDPE PLATES W/ S.S SCREWS.

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BOSTON, MA 02110

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dcr Massachusetts

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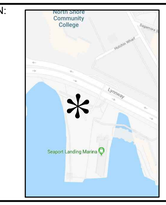
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JENNIFER S. GREEN
CIVIL
No. 48585
REGISTERED PROFESSIONAL ENGINEER
11/7/2025

DRAWING TITLE:

HARBOR MASTER ENTERANCE SECTIONS

ACCESSION #:105020x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

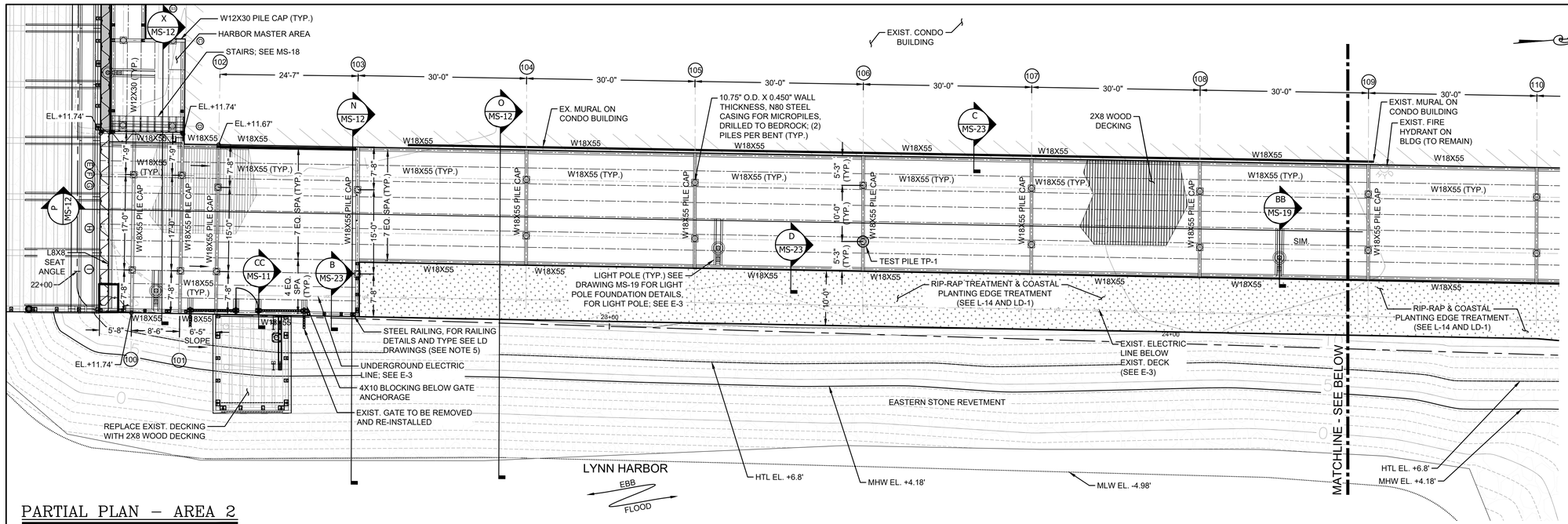
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

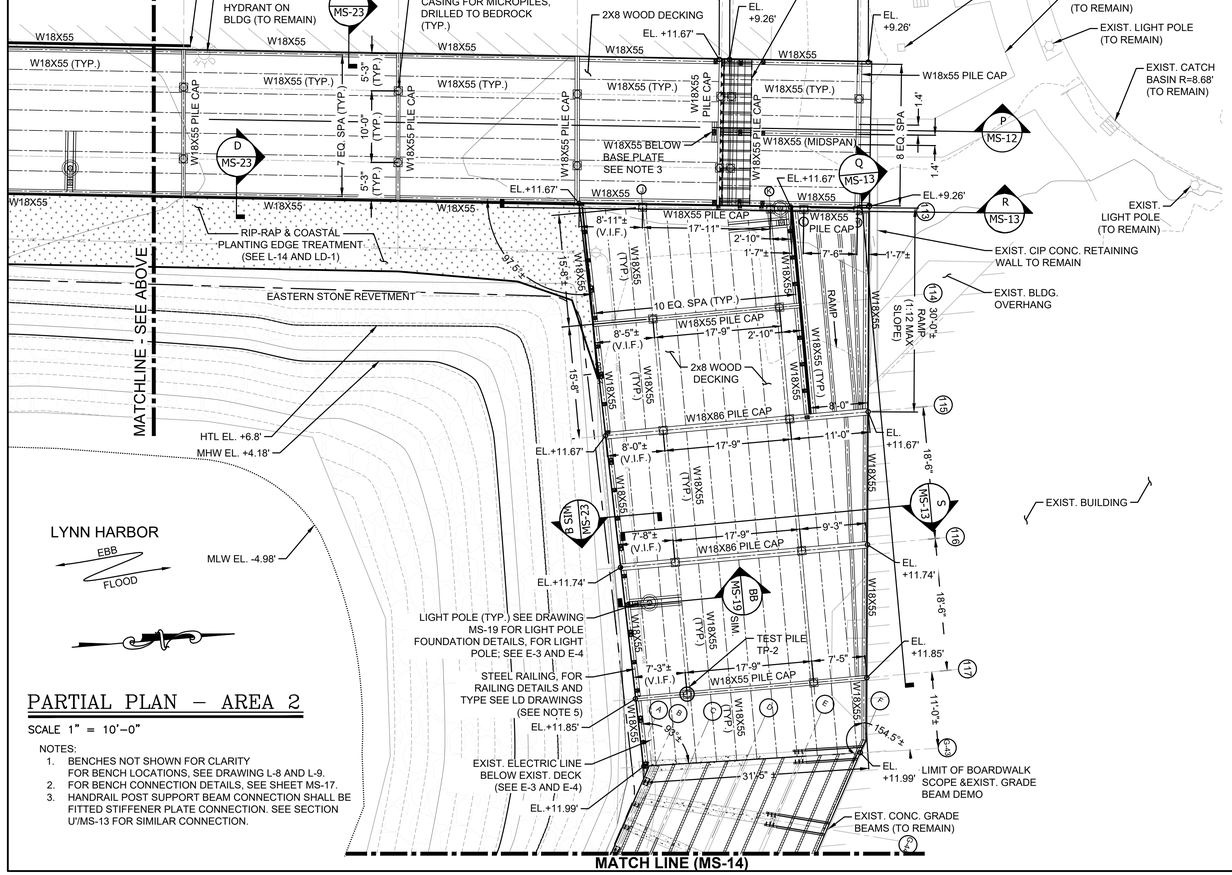
DRAWING NO.

MS-10



PARTIAL PLAN – AREA 2

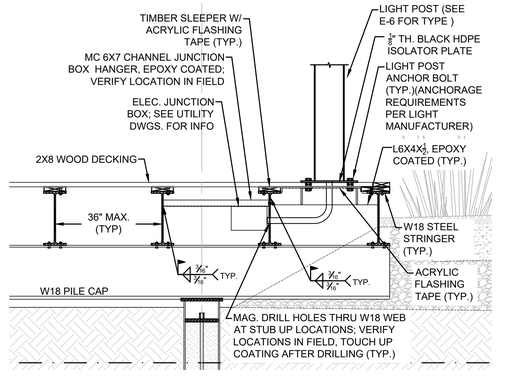
SCALE 1" = 10'-0"



PARTIAL PLAN – AREA 2

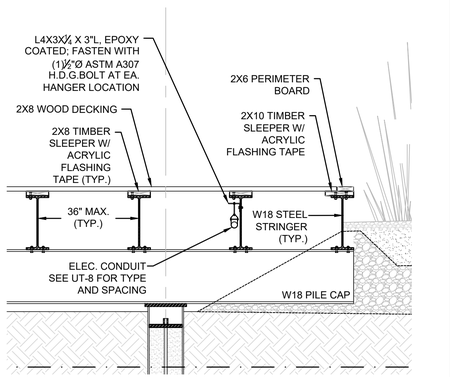
SCALE 1" = 10'-0"

NOTES:
1. BENCHES NOT SHOWN FOR CLARITY FOR BENCH LOCATIONS, SEE DRAWING L-8 AND L-9.
2. FOR BENCH CONNECTION DETAILS, SEE SHEET MS-17.
3. HANDRAIL POST SUPPORT BEAM CONNECTION SHALL BE FITTED STIFFENER PLATE CONNECTION. SEE SECTION U'/MS-13 FOR SIMILAR CONNECTION.



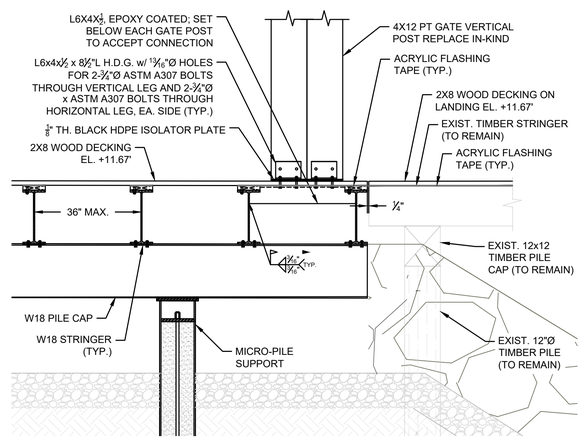
AREA 2 TYPICAL JUNCTION BOX HANGER DETAILS

SCALE 1" = 2'-0"



AREA 2 TYPICAL CONDUIT HANGER DETAILS

SCALE 1" = 2'-0"



CC/MS-11 GATE POST SUPPORT FRAMING

SCALE 1" = 2'-0"

GENERAL NOTES:
1. FOR PROJECT NOTES, SEE DRAWINGS G-1 AND G-2.
2. 2x8 WOOD DECK SPAN AT STEEL STRINGERS SHALL NOT EXCEED 36".
3. FOR UTILITY INFORMATION NOT SHOWN, REFER TO UTILITY DRAWINGS.
4. EXISTING FLAGPOLE TO REMAIN. CONTRACTOR TO BLOCK AROUND FLAGPOLE FOUNDATION FOR DECKING SUPPORT. SEE SIMILAR DETAILS FOR LIGHT POLES ON DRAWING MS-19.
5. HANDRAIL POST LOCATIONS SHOWN ARE APPROXIMATE, CONTRACTOR TO FIELD MEASURE TO DETERMINE FINAL POST LOCATIONS PRIOR TO FABRICATION. UNLESS NOTED OTHERWISE, HANDRAIL POST SPACING SHALL NOT EXCEED 4'-0".
6. ALL MICRO PILE SUPPORTED BOARDWALK STRUCTURAL STEEL FRAMING (W18 STRINGERS, W18 PILE CAPS, MICRO PILE CAP PLATES, CONNECTION ANGLES, ETC.) SHALL BE EPOXY COATED.
7. TOP TWO SECTIONS OF MICRO PILES SHALL BE EPOXY COATED.
8. STEEL SHEET PILES SHALL BE EPOXY COATED ON BOTH SIDES, FOR THE TOP 10-FEET.
9. STEEL SHEET PILE CONNECTORS, CLOSURE BEAMS, AND CLOSURE ANGLES SHALL BE EPOXY COATED, FULL LENGTH.
10. PROVIDE SOLVENT RESISTANT FLASHING TAPE (G-TAPE OR APPROVED EQUAL) CONTINUOUS AND FULL WIDTH ALONG TOP OF PT SLEEPERS AND TIMBER STRINGERS.
11. FOR LOCATIONS WHERE RAILING IS NOT PRESENT, EXTEND EDGE OF BOARD 1" BEYOND EDGE OF SLEEPER.

GRAPHIC SCALE
0 1 2 4
(IN FEET)
1 INCH = 2 FEET

GRAPHIC SCALE
0 5 10 20
(IN FEET)
1 INCH = 10 FEET

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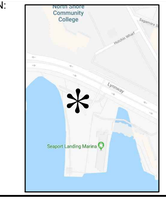
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Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



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NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JENNIFER S. GREEN
CIVIL
No. 48585
REGISTERED PROFESSIONAL ENGINEER
11/7/2025

DRAWING TITLE:

AREA 2 PARTIAL PLAN AND DETAILS

ACCESSION #:105021x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

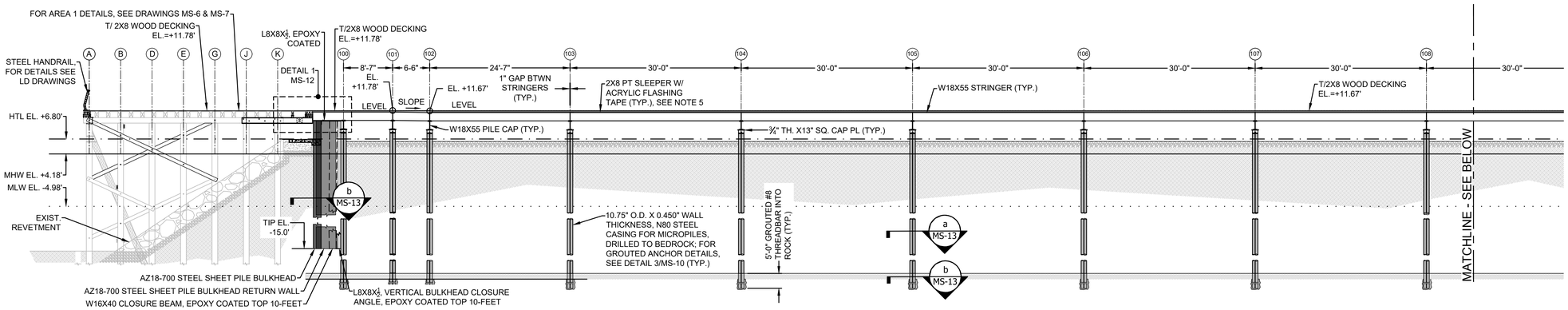
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

MS-11

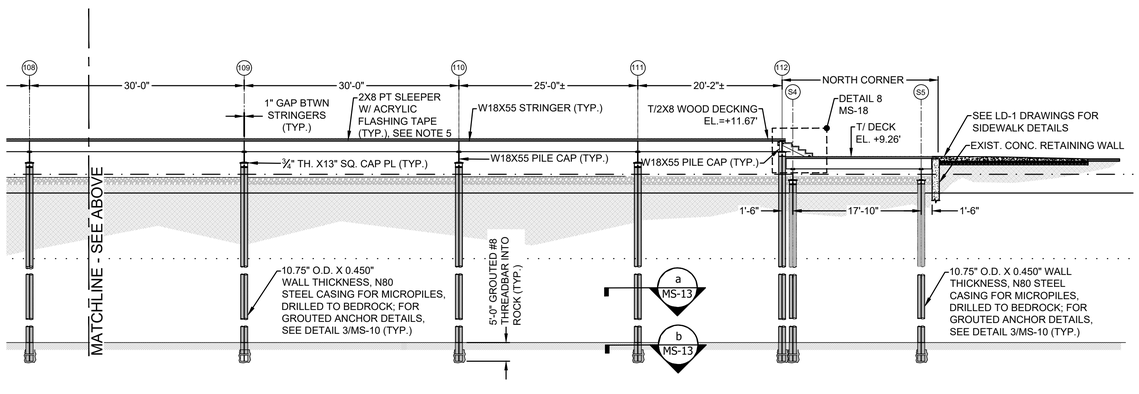


P / MS-11 SECTION P – GRADE BEAM BOARDWALK REPLACEMENT SECTION

SCALE 1" = 10'–0"

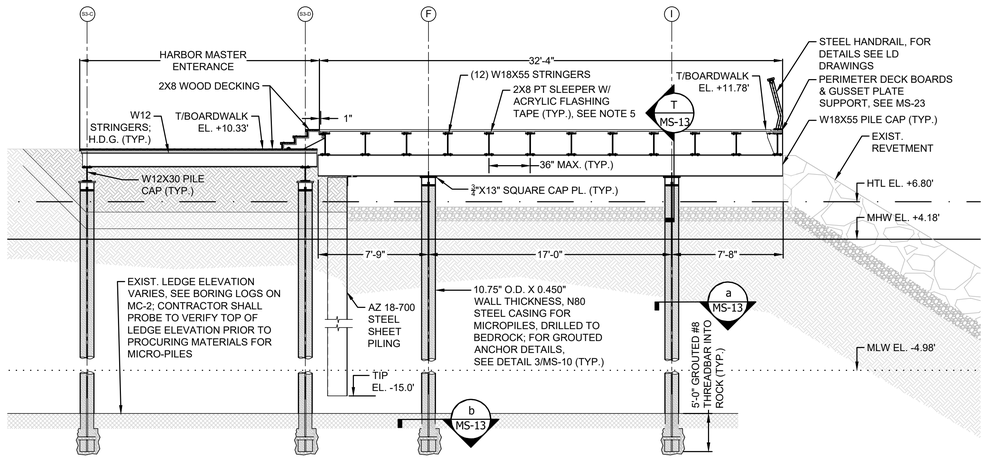
GENERAL NOTES:

1. ALL MICRO PILE SUPPORTED BOARDWALK STRUCTURAL STEEL FRAMING (W18 STRINGERS, W18 PILE CAPS, MICRO PILE CAP PLATES, CONNECTION ANGLES, ETC.) SHALL BE EPOXY COATED.
2. TOP TWO SECTIONS OF MICRO PILES SHALL BE EPOXY COATED.
3. STEEL SHEET PILES SHALL BE EPOXY COATED ON BOTH SIDES, FOR THE TOP 10-FEET.
4. STEEL SHEET PILE CONNECTORS, CLOSURE BEAMS, AND CLOSURE ANGLES SHALL BE EPOXY COATED, FULL LENGTH.
5. PROVIDE SOLVENT RESISTANT FLASHING TAPE (G-TAPE OR APPROVED EQUAL) CONTINUOUS AND FULL WIDTH TOP OF PT SLEEPERS AND TIMBER STRINGERS.
6. PROVIDE 1/8" TH. BLACK HDPE ISOLATOR PLATES AT INTERFACE SURFACES BETWEEN DECKING AND RAILING BASE PLATES.
7. FOR LOCATIONS WHERE RAILING IS NOT PRESENT, EXTEND EDGE OF BOARD 1" BEYOND EDGE OF SLEEPER.



P / MS-11 SECTION P – GRADE BEAM BOARDWALK REPLACEMENT SECTION

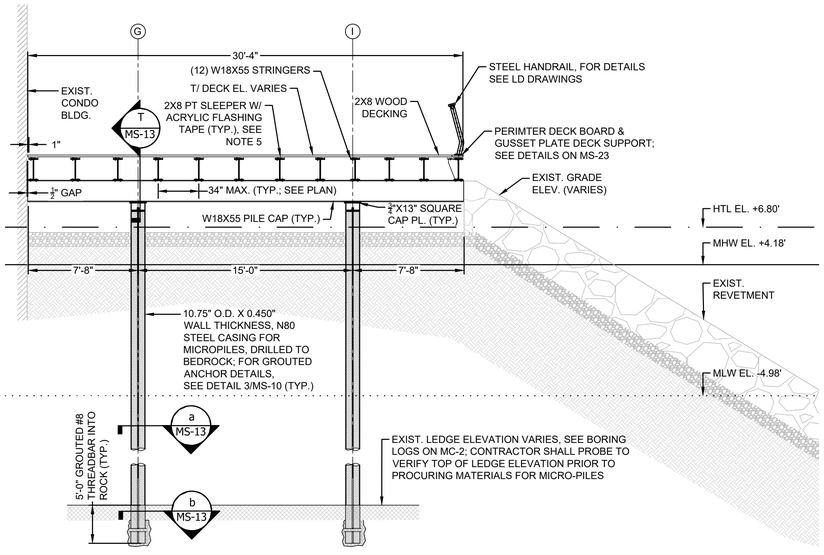
SCALE 1" = 10'–0"



X / MS-11 GRADE BEAM BOARDWALK REPLACEMENT SECTION – BENT 100 & BENT 101

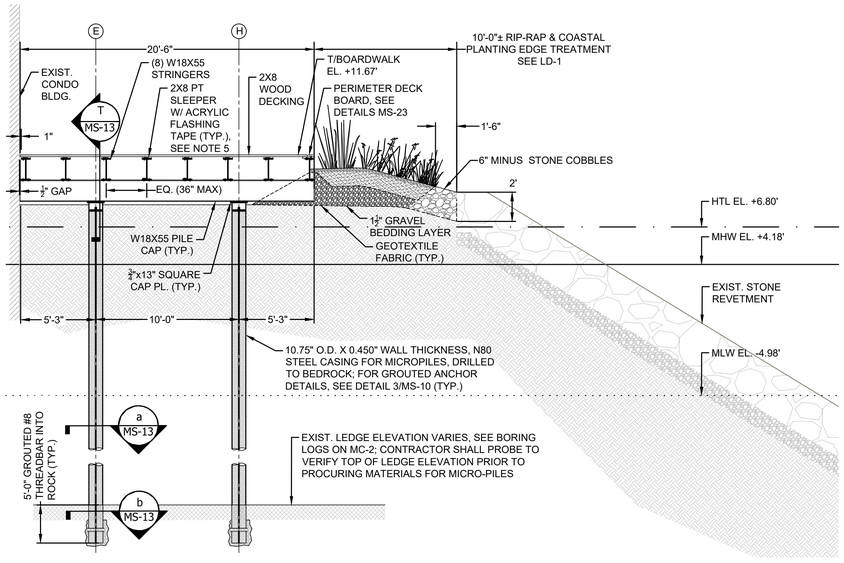
SCALE 1" = 5'–0"

NOTES:
1. STAIR HANDRAIL NOT SHOWN FOR CLARITY.



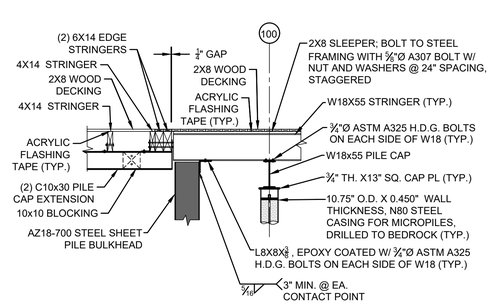
N / MS-11 GRADE BEAM BOARDWALK REPLACEMENT SECTION BENT 102 & BENT 103

SCALE 1" = 5'–0"



O / MS-11 GRADE BEAM BOARDWALK REPLACEMENT SECTION BENT 104 TO BENT 111 (BENT 112 SIMILAR)

SCALE 1" = 5'–0"



1 / MS-12 CLOSURE ANGLE AT BENT 100

SCALE: NOT TO SCALE

NOTES:
1. FOR PROJECT NOTES, SEE SHEETS G-1 AND G-2.
2. WELD W18 STRINGERS TO W18 PILE CAPS.
3. WELD W18 PILE CAP TO 13" SQUARE CAP PLATE.
4. WELD 13" CAP PLATE TO MICROPILES.
5. HANDRAIL NOT SHOWN FOR CLARITY.

GRAPHIC SCALE
0 2.5 5 10
(IN FEET)
1 INCH = 5 FEET

GRAPHIC SCALE
0 5 10 20
(IN FEET)
1 INCH = 10 FEET

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Lynn, MA

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KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JENNIFER S. GREEN
CIVIL
No. 48585
REGISTERED PROFESSIONAL ENGINEER
11/7/2025

DRAWING TITLE:

AREA 2 BOARDWALK SECTIONS
SHEET 1 OF 2

ACCESSION #:105022x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

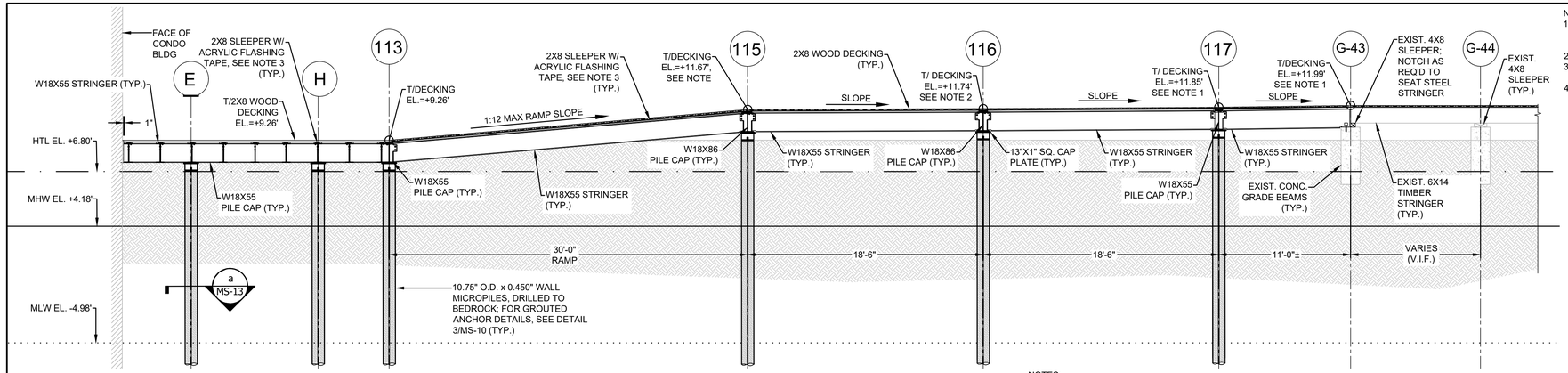
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

MS-12



Q MS-11 SECTION THROUGH NORTH CORNER RAMP

SCALE 1" = 5'-0"

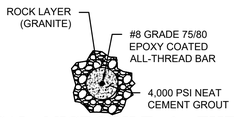
NOTES:
1. TOP OF RAMP ELEVATIONS SHALL BE FIELD VERIFIED. CONTRACTOR SHALL ADJUST TOP OF DECK ELEVATIONS, AS REQUIRED TO ENSURE THAT LOCATIONS WHERE WALKWAY SURFACE MEETS BUILDING ENTRY DOOR THRESHOLDS IS WITHIN 1".
2. FOR HANDRAIL POSTS LOCATIONS AT RAMP SLOPE TO LEVEL BOARDWALK TRANSITION, PROVIDE BEVELED BASE PLATES TO SET POST LEVEL ON PILE CAP.

NOTES:
1. ALL MICROPILE SUPPORTED BOARDWALK STRUCTURAL STEEL FRAMING (W18 STRINGERS, W18 PILE CAPS, MICROPILE CAP PLATES, CONNECTION ANGLES, ETC.) SHALL BE EPOXY COATED.
2. TOP TWO SECTIONS OF MICROPILES SHALL BE EPOXY COATED.
3. PROVIDE SOLVENT RESISTANT FLASHING TAPE (G-TAPE OR APPROVED EQUAL) CONTINUOUS AND FULL WIDTH ALONG TOP OF PT SLEEPERS AND TIMBER STRINGERS.
4. PROVIDE 1/8" TH. BLACK HDPE ISOLATOR PLATES AT INTERFACE SURFACES BETWEEN DECKING AND RAILING BASE PLATES.



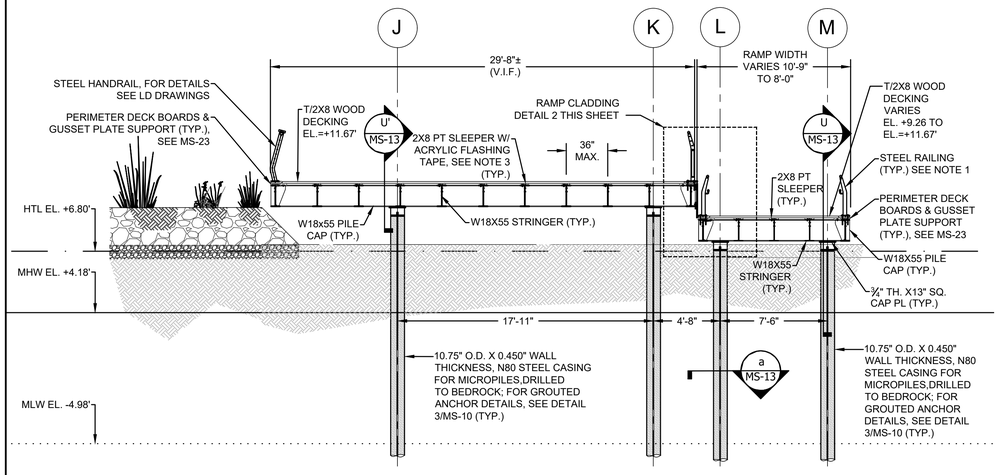
a MS-13 TYPICAL MICROPILE & THREADED ROD SECTION ABOVE BEDROCK

SCALE 6" = 1'-0"



b MS-13 TYPICAL MICROPILE & THREADED ROD SECTION BELOW BEDROCK

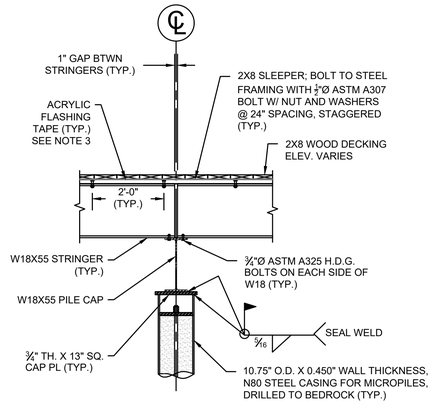
SCALE 6" = 1'-0"



R MS-11 SECTION THROUGH NORTH CORNER RAMP – BENT 113

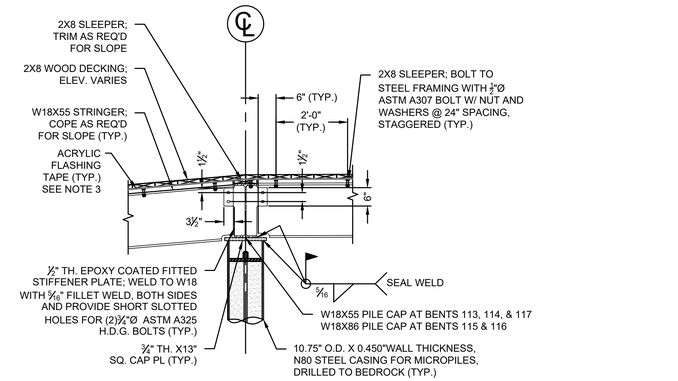
SCALE 1" = 5'-0"

NOTES:
1. FOR HANDRAIL POSTS LOCATIONS AT RAMP SLOPE TO LEVEL BOARDWALK TRANSITION, PROVIDE BEVELED BASE PLATES TO SET POST LEVEL ON PILE CAP.



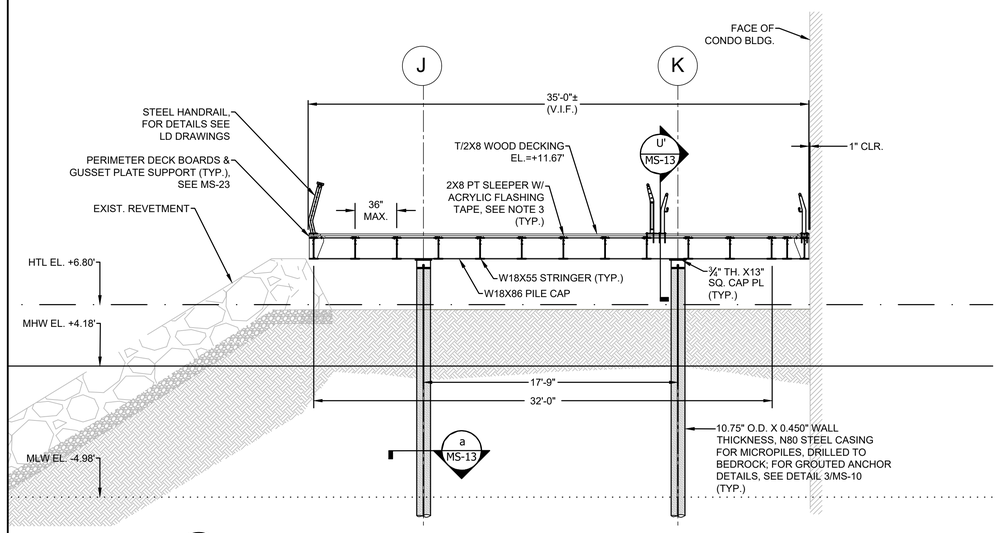
T MS-12 TYPICAL PILE CAP SECTION BENT 100 TO 112 (SECTIONS SIMILAR)

SCALE 1" = 2'-0"



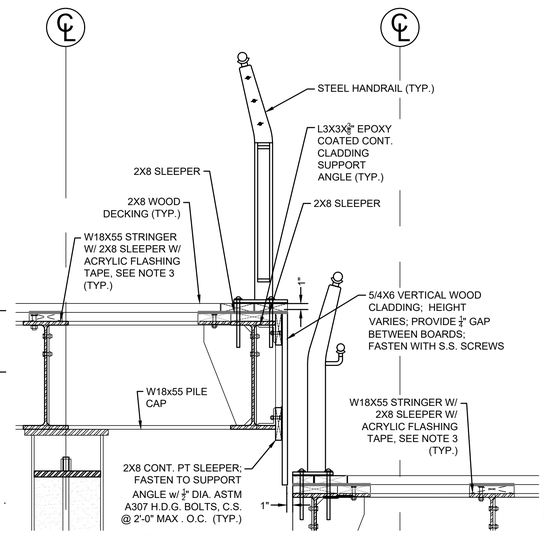
U' MS-13 TYPICAL SLOPED PILE CAP SECTION BENT 113 THRU 117

SCALE 1" = 2'-0"



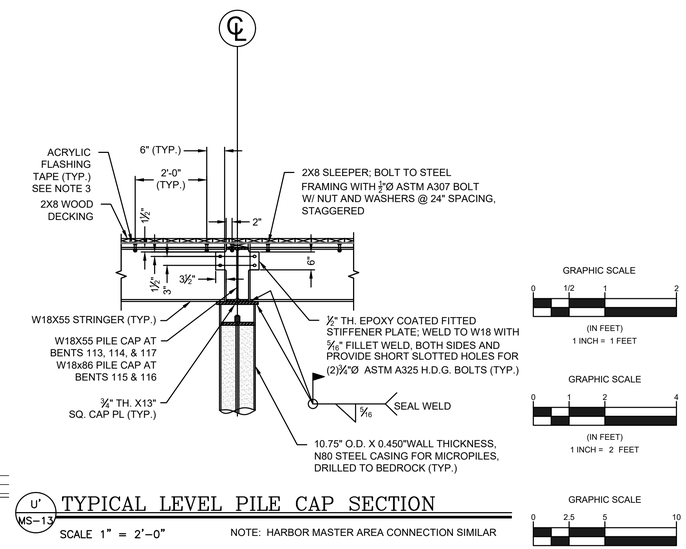
S MS-11 SECTION THROUGH NORTH CORNER RAMP – BENT 115

SCALE 1" = 5'-0"



2 MS-13 RAMP CLADDING DETAIL

SCALE 1" = 1'-0"



U' MS-13 TYPICAL LEVEL PILE CAP SECTION

SCALE 1" = 2'-0"

NOTE: HARBOR MASTER AREA CONNECTION SIMILAR

GRAPHIC SCALE
0 1/2 1 2
(IN FEET)
1 INCH = 1 FEET

GRAPHIC SCALE
0 1 2 4
(IN FEET)
1 INCH = 2 FEET

GRAPHIC SCALE
0 2.5 5 10
(IN FEET)
1 INCH = 5 FEET

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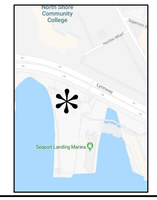
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WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

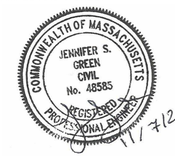
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

AREA 2 BOARDWALK SECTIONS
SHEET 2 OF 2

ACCESSION #:105023x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

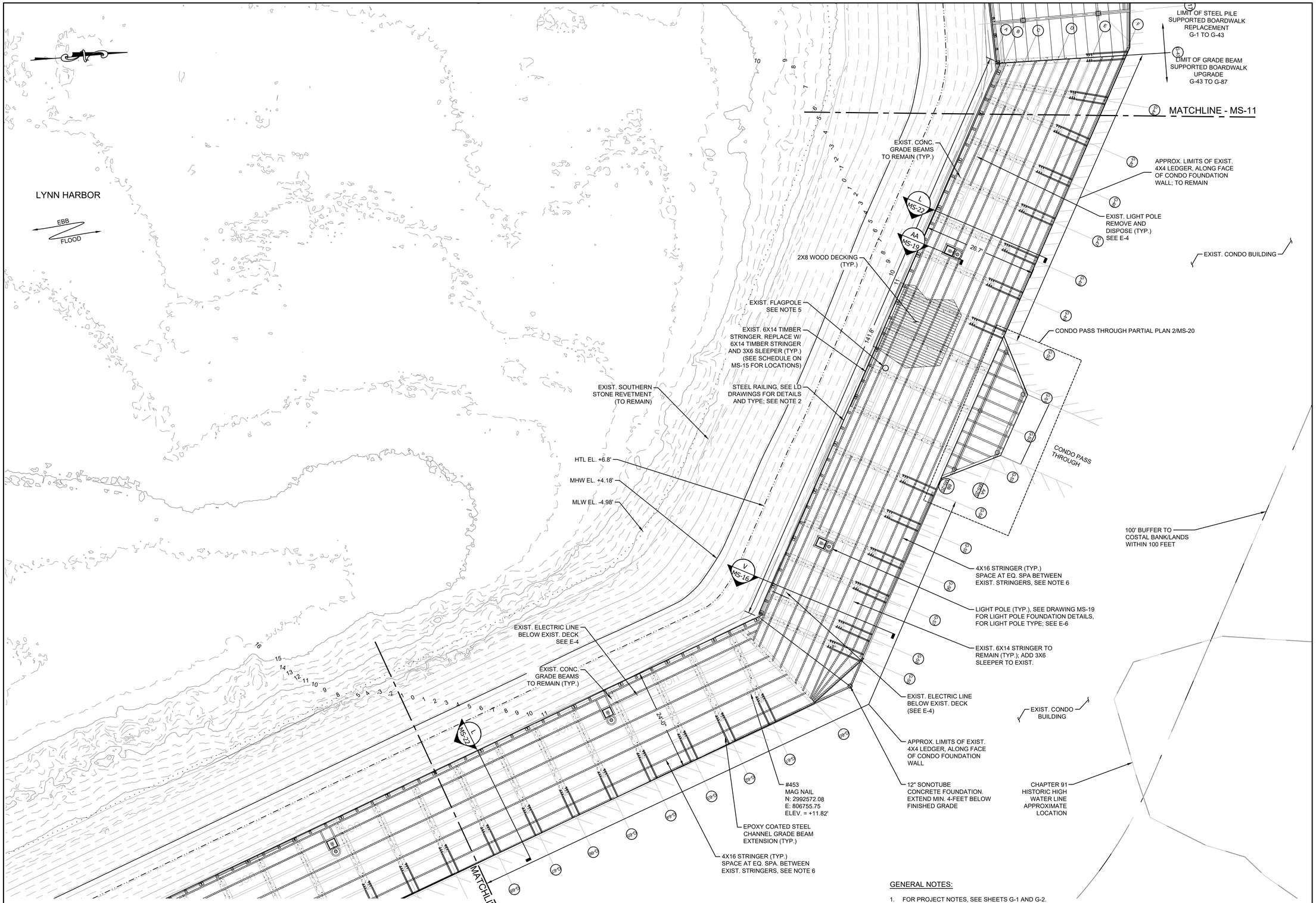
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

MS-13



LEGEND:

- EXIST. 6x14 TIMBER STRINGER REPLACEMENT W/ NEW 6x14 TIMBER STRINGER AND NEW 3x6 SLEEPER (SEE SCHEDULE MS-15). RIP SLEEPER TO MATCH TOP OF ADJACENT 4x16 STRINGERS.
- INSTALLATION OF NEW 4x16 TIMBER STRINGER
- EXIST. 6x14 TIMBER STRINGER TO REMAIN W/ ADDITIONAL NEW 3x6 SLEEPER. RIP SLEEPER TO MATCH TOP OF ADJACENT 4X16 STRINGERS.

PARTIAL PLAN – AREA 3

SCALE 1" = 10'–0"

NOTE:

1. WOOD DECKING AND RAILING NOT SHOWN FOR CLARITY. PROVIDE RAILING FULL LENGTH ALONG WATERSIDE EDGE AND ALONG LANDSIDE EDGE AT LOCATIONS OUTSIDE OF THE CONDO BUILDING LIMITS, AT RAMPS, AND AS INDICATED ON SECTIONS.

GENERAL NOTES:

1. FOR PROJECT NOTES, SEE SHEETS G-1 AND G-2.
2. HANDRAIL POST LOCATIONS ARE APPROXIMATE, CONTRACTOR TO FIELD MEASURE TO DETERMINE FINAL POST LOCATIONS PRIOR TO FABRICATION. UNLESS NOTED OTHERWISE, HANDRAIL POST SPACING SHALL NOT EXCEED 4'-0".
3. BENCHES NOT SHOWN FOR CLARITY. FOR BENCH LOCATIONS, SEE DRAWINGS L-8 AND L-9.
4. FOR BENCH CONNECTION DETAILS, SEE SHEET MS-17.
5. REMOVE, STORE, AND RESET FLAGPOLE AFTER DECK REPLACEMENT. CONTRACTOR TO SUBMIT DECKING DETAILS ADJACENT TO FLAGPOLE FOUNDATION FOR DCR REVIEW AND APPROVAL PRIOR TO RE-INSTALLATION.
6. WOOD DECK SPAN AT NEW AND EXISTING TIMBER STRINGERS SHALL NOT EXCEED 36".

GRAPHIC SCALE

0 5 10 20

(IN FEET)

1 INCH = 10 FEET

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BOSTON, MA 02110

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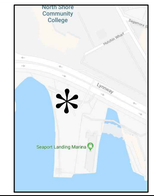
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JENNIFER S. GREEN
CIVIL
No. 48585
REGISTERED PROFESSIONAL ENGINEER
11/7/2025

DRAWING TITLE:

AREA 3
PARTIAL PLAN

ACCESSION #:105024x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

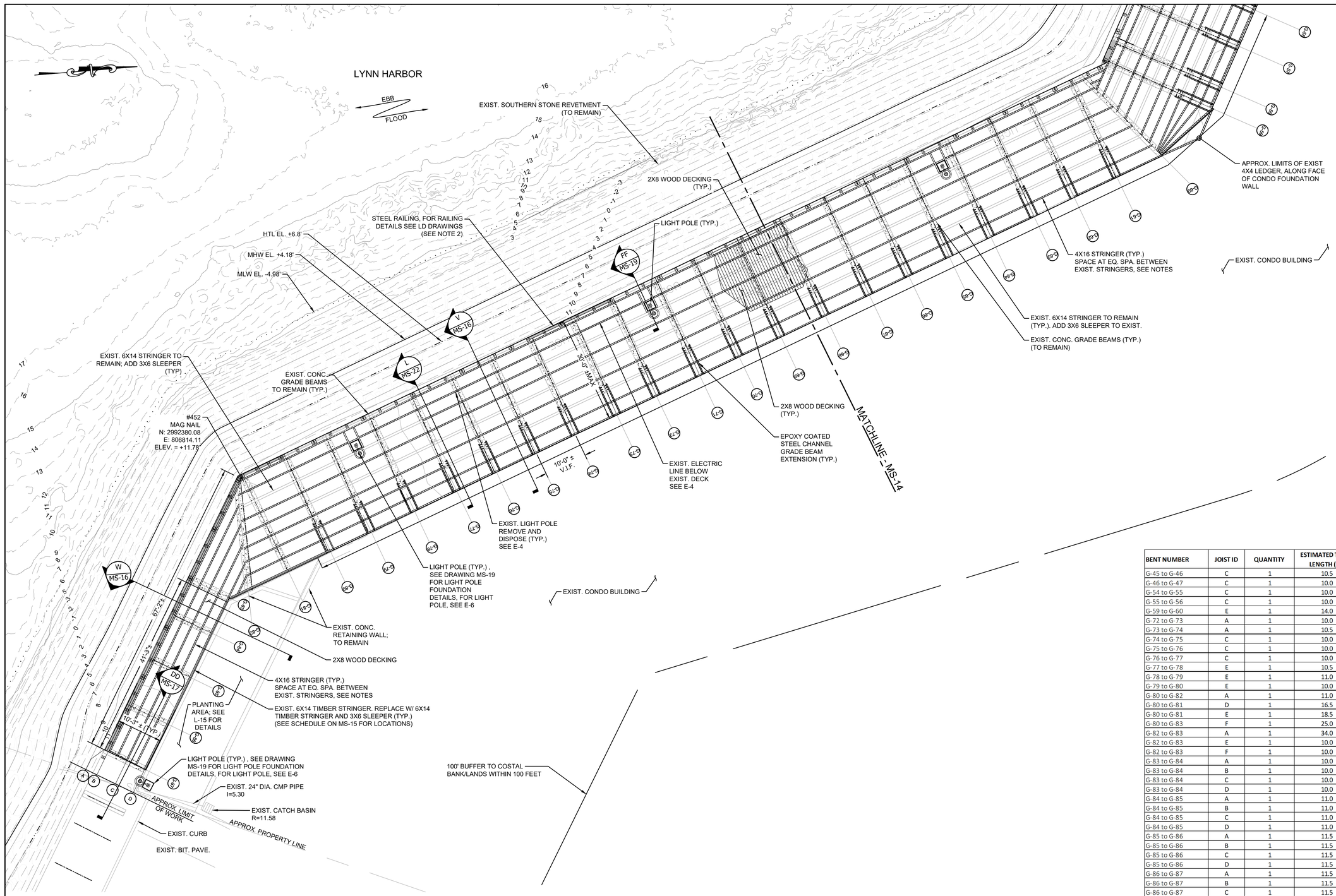
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

MS-14



PARTIAL PLAN – AREA 4

SCALE 1" = 10'–0"

NOTE:
1. WOOD DECKING AND RAILING NOT SHOWN FOR CLARITY. PROVIDE RAILING FULL LENGTH ALONG WATERSIDE EDGE AND ALONG LANDSIDE EDGE AT LOCATIONS OUTSIDE OF THE CONDO BUILDING LIMITS, AT RAMPS, AND AS INDICATED ON SECTIONS.

BENT NUMBER	JOIST ID	QUANTITY	ESTIMATED TOTAL LENGTH (LF)
G-45 to G-46	C	1	10.5
G-46 to G-47	C	1	10.0
G-54 to G-55	C	1	10.0
G-55 to G-56	C	1	10.0
G-59 to G-60	E	1	14.0
G-72 to G-73	A	1	10.0
G-73 to G-74	A	1	10.5
G-74 to G-75	C	1	10.0
G-75 to G-76	C	1	10.0
G-76 to G-77	C	1	10.0
G-77 to G-78	E	1	10.5
G-78 to G-79	E	1	11.0
G-79 to G-80	E	1	10.0
G-80 to G-82	A	1	11.0
G-80 to G-81	D	1	16.5
G-80 to G-81	E	1	18.5
G-80 to G-83	F	1	25.0
G-82 to G-83	A	1	34.0
G-82 to G-83	E	1	10.0
G-82 to G-83	F	1	10.0
G-83 to G-84	A	1	10.0
G-83 to G-84	B	1	10.0
G-83 to G-84	C	1	10.0
G-83 to G-84	D	1	10.0
G-84 to G-85	A	1	11.0
G-84 to G-85	B	1	11.0
G-84 to G-85	C	1	11.0
G-84 to G-85	D	1	11.0
G-85 to G-86	A	1	11.5
G-85 to G-86	B	1	11.5
G-85 to G-86	C	1	11.5
G-85 to G-86	D	1	11.5
G-86 to G-87	A	1	11.5
G-86 to G-87	B	1	11.5
G-86 to G-87	C	1	11.5
G-86 to G-87	D	1	11.5

NOTES:
1. EXISTING 6x14 TIMBER STRINGER TO BE REPLACED WITH NEW 4x16 TIMBER STRINGER. SEE DETAIL 2 AND 3 ON MS-16.

GENERAL NOTES:
1. FOR PROJECT NOTES, SEE SHEETS G-1 AND G-2.
2. HANDRAIL POST LOCATIONS ARE APPROXIMATE, CONTRACTOR TO FIELD MEASURE TO DETERMINE FINAL POST LOCATIONS PRIOR TO FABRICATION. UNLESS NOTED OTHERWISE, HANDRAIL POST SPACING SHALL NOT EXCEED 4'-0".
3. WOOD DECK SPAN AT NEW AND EXISTING TIMBER STRINGER SHALL NOT EXCEED 36".

LEGEND:
- EXIST. 6x14 TIMBER STRINGER REPLACEMENT W/ NEW 6x14 TIMBER STRINGER AND NEW 3x6 SLEEPER (SEE SCHEDULE MS-15). RIP SLEEPER TO MATCH TOP OF ADJACENT 4x16 STRINGERS.
- INSTALLATION OF NEW 4x16 TIMBER STRINGER
- EXIST. 6x14 TIMBER STRINGER TO REMAIN W/ ADDITIONAL NEW 3x6 SLEEPER. RIP SLEEPER TO MATCH TOP OF ADJACENT 4X16 STRINGERS.

GRAPHIC SCALE
0 5 10 20
(IN FEET)
1 INCH = 10 FEET

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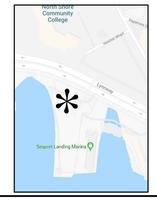
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VETERANS MEMORIAL PARK
WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JENNIFER S. GREEN
CIVIL
No. 48585
REGISTERED PROFESSIONAL ENGINEER
11/7/2025

DRAWING TITLE:

AREA 4
PARTIAL PLAN

ACCESSION #:105025x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

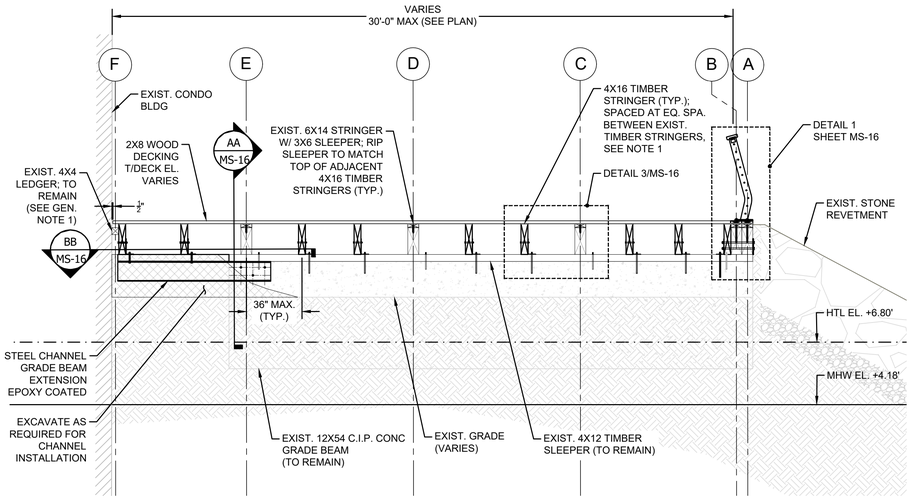
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

MS-15

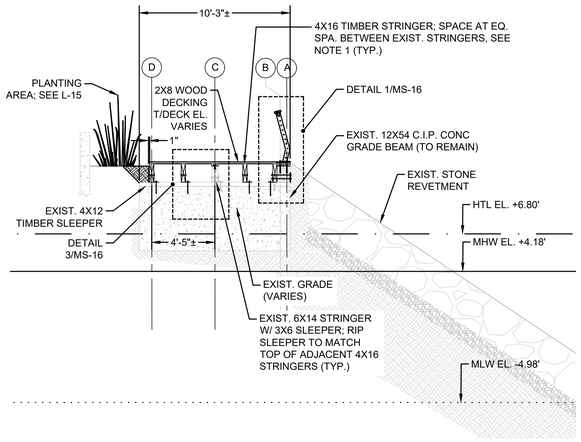


TYPICAL BOARDWALK REHABILITATION SECTION BENTS G-44 TO G-81 (BENT G-43 AND G-82 SIMILAR)

V MS-14 / V MS-15

SCALE 1" = 3'-0"

NOTE:
1. WOOD DECK SPAN AT NEW AND EXISTING TIMBER STRINGERS SHALL NOT EXCEED 36". SPACING AND QUANTITY OF STRINGERS VARIES; SEE PLAN VIEW.

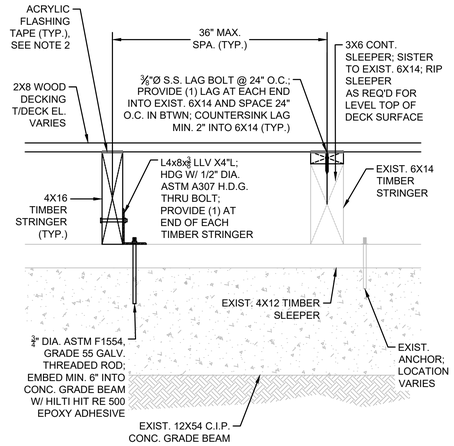


TYPICAL BOARDWALK REHABILITATION SECTION BENTS G-83 TO G-87

W MS-15

SCALE 1" = 5'-0"

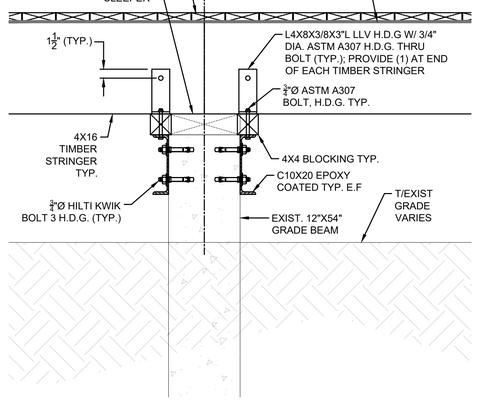
NOTE:
1. WOOD DECK SPAN AT NEW AND EXISTING TIMBER STRINGERS SHALL NOT EXCEED 36".



TYPICAL DECK CONNECTION

3 MS-16

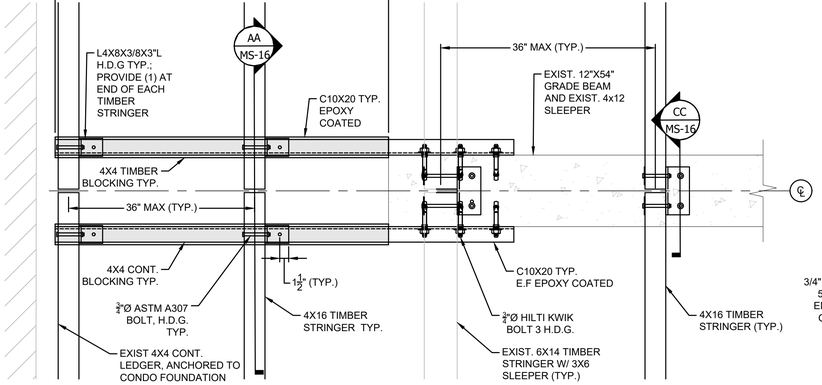
SCALE 1" = 1'-0"



GRADE BEAM CHANNEL EXTENSION SECTION

AA MS-16

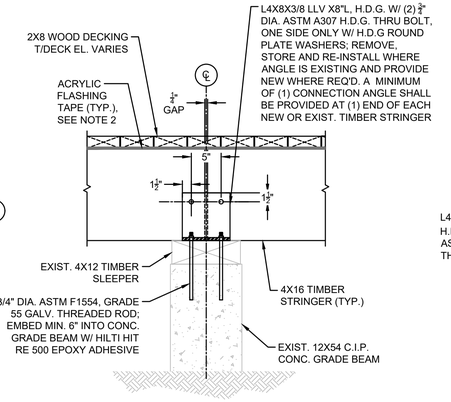
SCALE 1" = 1'-0"



GRADE BEAM CHANNEL EXTENSION PLAN

BB MS-16

SCALE 1" = 1'-0"

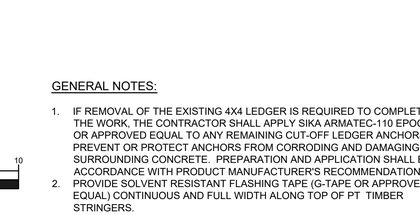


TYPICAL TIMBER STRINGER TO GRADE BEAM CONNECTION

CC MS-16

SCALE 1" = 1'-0"

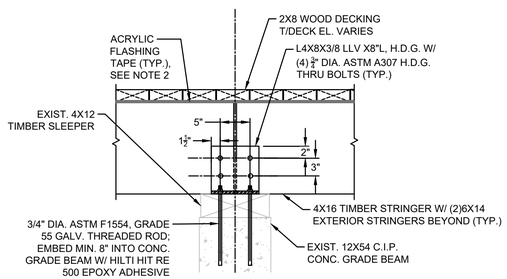
NOTE:
1. NEW 4X16 TIMBER STRINGER SHOWN. EX. 6X14 TIMBER STRINGER W/3X6 SLEEPER SIMILAR.



STEEL RAILING CONNECTION

1 MS-16

SCALE 1" = 1'-0"



TYPICAL TIMBER STRINGERS TO GRADE BEAM CONNECTION

DD MS-16

SCALE 1" = 1'-0"

GRAPHIC SCALE
0 0.5 1 2
(IN FEET)
1 INCH = 1 FEET

GRAPHIC SCALE
0 1.5 3 6
(IN FEET)
1 INCH = 3 FEET

GRAPHIC SCALE
0 2.5 5 10
(IN FEET)
1 INCH = 5 FEET

GENERAL NOTES:

1. IF REMOVAL OF THE EXISTING 4X4 LEDGER IS REQUIRED TO COMPLETE THE WORK, THE CONTRACTOR SHALL APPLY SIKA ARMATEC-110 EPOCEM OR APPROVED EQUAL TO ANY REMAINING CUT-OFF LEDGER ANCHORS TO PREVENT OR PROTECT ANCHORS FROM CORRODING AND DAMAGING SURROUNDING CONCRETE. PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH PRODUCT MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE SOLVENT RESISTANT FLASHING TAPE (G-TAPE OR APPROVED EQUAL) CONTINUOUS AND FULL WIDTH ALONG TOP OF PT TIMBER STRINGERS.

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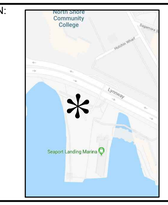
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JENNIFER S. GREEN
CIVIL
No. 48585
REGISTERED PROFESSIONAL ENGINEER
11/7/2025

DRAWING TITLE:

AREA 3 & 4 BOARDWALK SECTIONS & DETAILS

ACCESSION #:105026x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

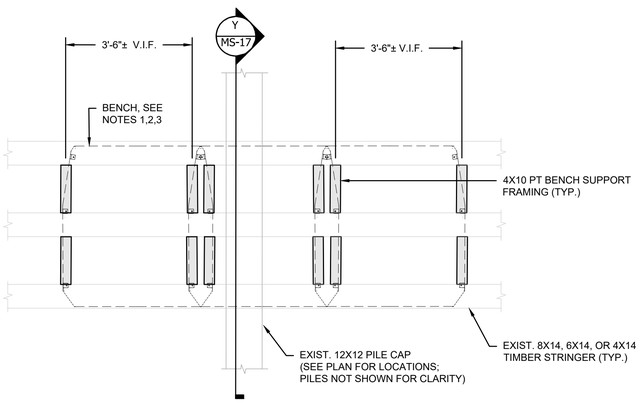
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

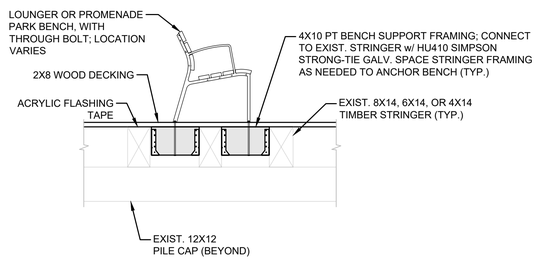
MS-16



1 MS-17 AREA 1 TYPICAL BENCH FRAMING DETAILS

SCALE 1" = 2'-0"

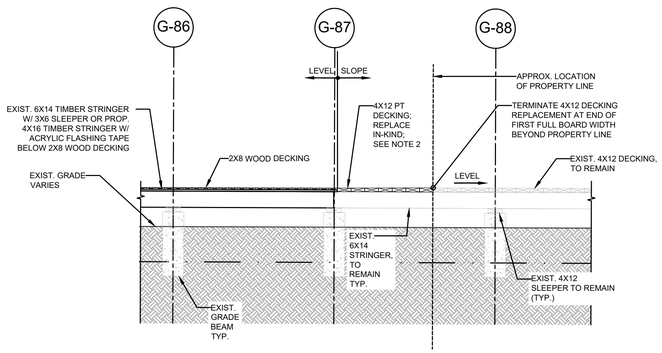
NOTES:
1. BENCH TYPES AND DIMENSIONS VARY (PROMENADE BENCH SHOWN).
2. FOR DETAILS ON BOTH BENCH TYPES, SEE LD-3
3. BENCH ANCHORAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
4. WOOD DECKING NOT SHOWN FOR CLARITY



Y MS-17 BENCH SUPPORT FRAMING

SCALE 1" = 2'-0"

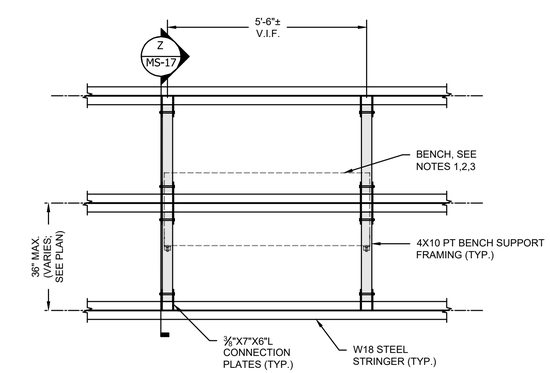
NOTES:
1. FOR DETAILS ON BOTH BENCH TYPES, SEE LD-3.
2. PROVIDE SOLVENT RESISTANT FLASHING TAPE (G-TAPE OR APPROVED EQUAL) CONTINOUS AND FULL WIDTH ALONG TO OF PT SLEEPERS AND TIMBER STRINGERS.



DD MS-17 PROPERTY LINE TERMINATION

SCALE 1" = 5'-0"

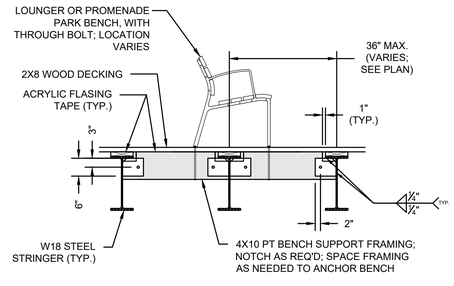
NOTES:
1. HANDRAIL NOT SHOWN FOR CLARITY. FOR DETAILS ON HANDRAIL TERMINATION AT PROPERTY LINE, SEE LD DRAWINGS.
2. ADJUST NEW 4X12 PT DECKING THICKNESS AS REQUIRED TO SLOPE DECK SURFACE UP TO MEET EXIST. TOP OF DECK ELEVATION AT PROPERTY LINE.



2 MS-17 AREA 2 TYPICAL BENCH FRAMING DETAILS

SCALE 1" = 2'-0"

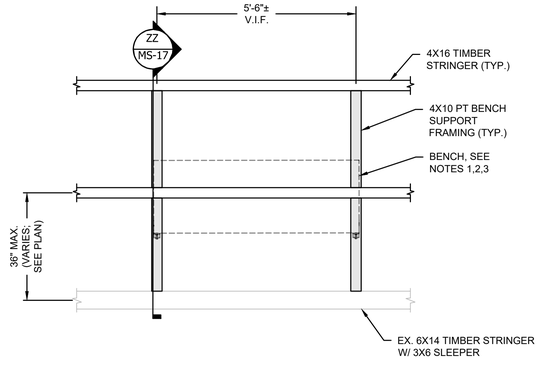
NOTES:
1. BENCH TYPES AND DIMENSIONS VARY (PROMENADE BENCH SHOWN).
2. FOR DETAILS ON BOTH BENCH TYPES, SEE LD-3
3. BENCH ANCHORAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
4. WOOD DECKING NOT SHOWN FOR CLARITY



Z MS-17 BENCH SUPPORT FRAMING

SCALE 1" = 2'-0"

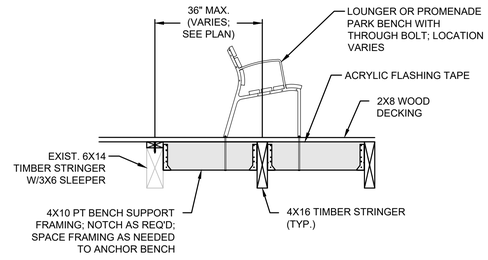
NOTES:
1. FOR DETAILS ON BOTH BENCH TYPES, SEE LD-3.
2. PROVIDE SOLVENT RESISTANT FLASHING TAPE (G-TAPE OR APPROVED EQUAL) CONTINOUS AND FULL WIDTH ALONG TO OF PT SLEEPERS AND TIMBER STRINGERS.



3 MS-17 AREA 3 & 4 TYPICAL BENCH FRAMING DETAILS

SCALE 1" = 2'-0"

NOTES:
1. BENCH TYPES AND DIMENSIONS VARY (PROMENADE BENCH SHOWN).
2. FOR DETAILS ON BOTH BENCH TYPES, SEE LD-3
3. BENCH ANCHORAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
4. WOOD DECKING NOT SHOWN FOR CLARITY



ZZ MS-17 BENCH SUPPORT FRAMING

SCALE 1" = 2'-0"

NOTES:
1. FOR DETAILS ON BOTH BENCH TYPES, SEE LD-3.
2. PROVIDE SOLVENT RESISTANT FLASHING TAPE (G-TAPE OR APPROVED EQUAL) CONTINOUS AND FULL WIDTH ALONG TO OF PT SLEEPERS AND TIMBER STRINGERS.

GRAPHIC SCALE
0 1/2 1 2
(IN FEET)
1 INCH = 1 FEET

GRAPHIC SCALE
0 1 2 4
(IN FEET)
1 INCH = 2 FEET

GRAPHIC SCALE
0 2.5 5 10
(IN FEET)
1 INCH = 5 FEET

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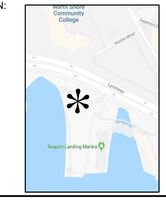
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WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

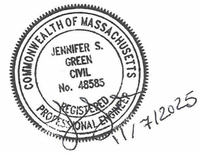
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

STEEL AND BENCH SUPPORT DETAILS

ACCESSION #:105027x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

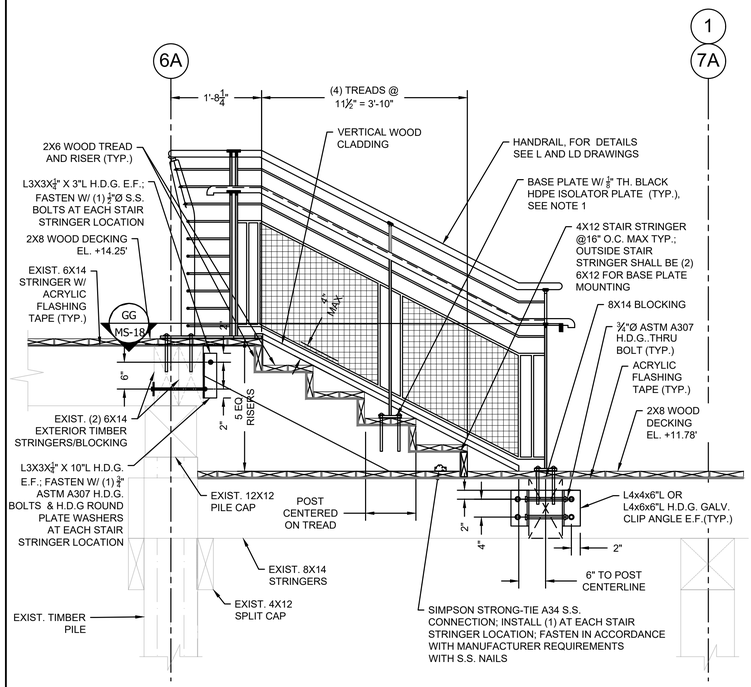
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

MS-17

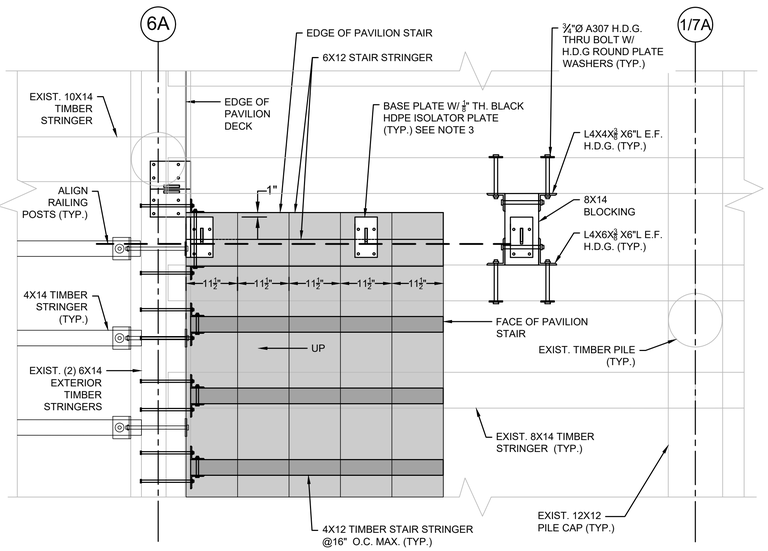


FF MS-4 PAVILION STAIR SECTION

SCALE 3/4" = 1'-0"

NOTES:

1. FOR BASE PLATE AND RAILING INFORMATION, SEE L AND LD DRAWINGS.



GG MS-18 PAVILION STAIR DETAIL

SCALE 3/4" = 1'-0"

NOTES:

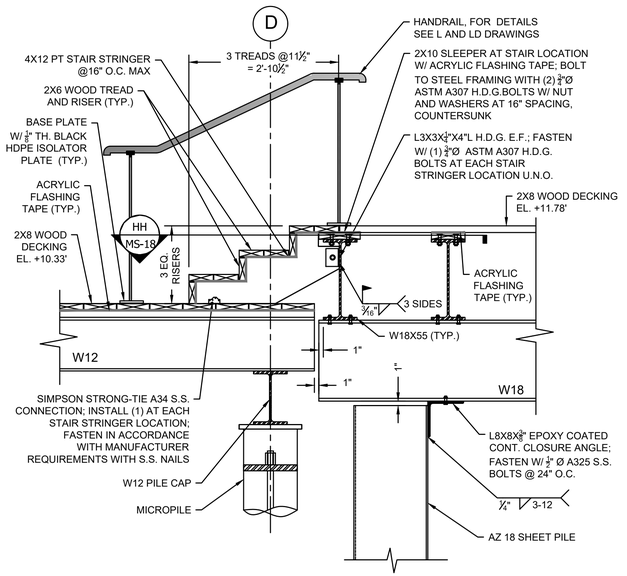
1. WOOD DECKING NOT SHOWN FOR CLARITY.
2. WOOD ASH TREADS AND RISERS NOT SHOWN FOR CLARITY.
3. FOR BASE PLATE AND RAILING INFORMATION, SEE L AND LD DRAWINGS.

GRAPHIC SCALE

0 1 2

(IN FEET)

¾ INCH = 1'-0"

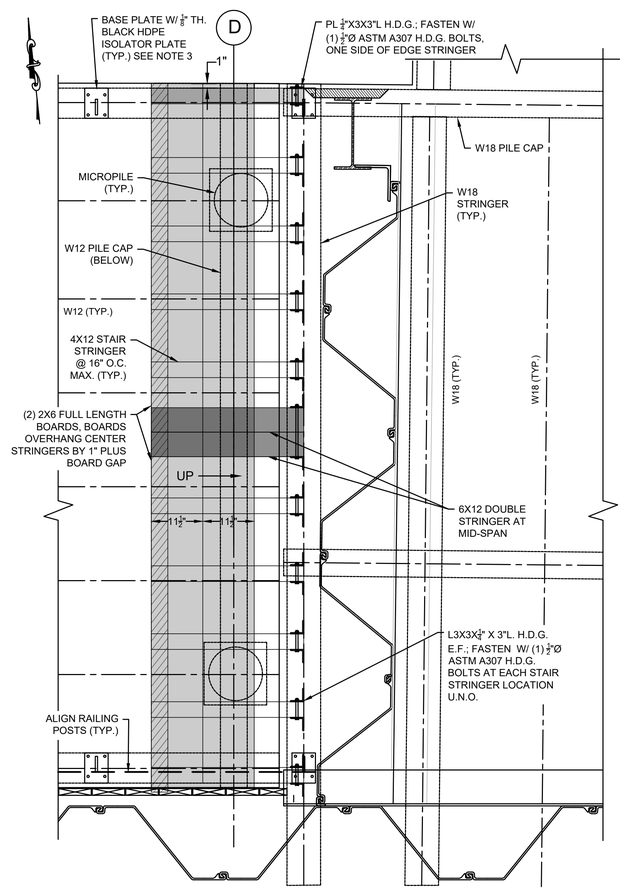


9 MS-9 HARBOR MASTER STAIR SECTION

SCALE 3/4" = 1'-0"

NOTES:

1. FOR BASE PLATE AND RAILING INFORMATION, SEE L AND LD DRAWINGS.

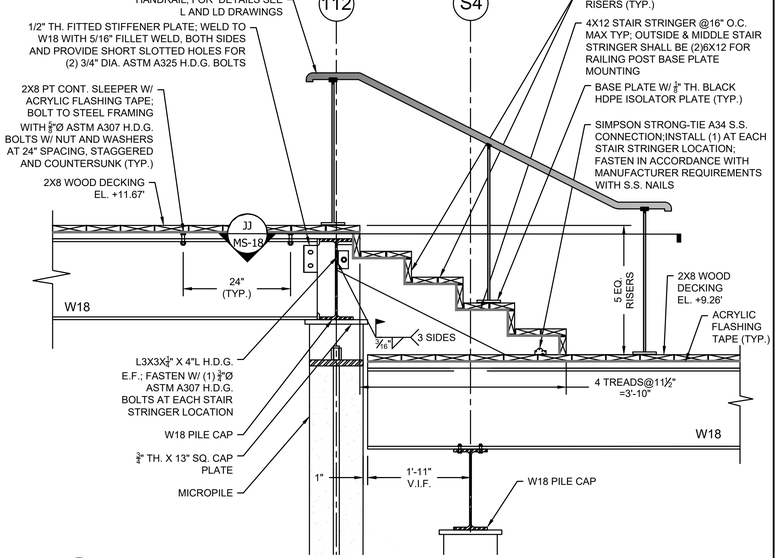


HH MS-18 HARBOR MASTER STAIR DETAIL

SCALE 3/4" = 1'-0"

NOTES:

1. WOOD DECKING, AND TREADS AND RISERS NOT SHOWN FOR CLARITY.
2. FOR BASE PLATE AND RAILING INFORMATION, SEE L AND LD DRAWINGS.

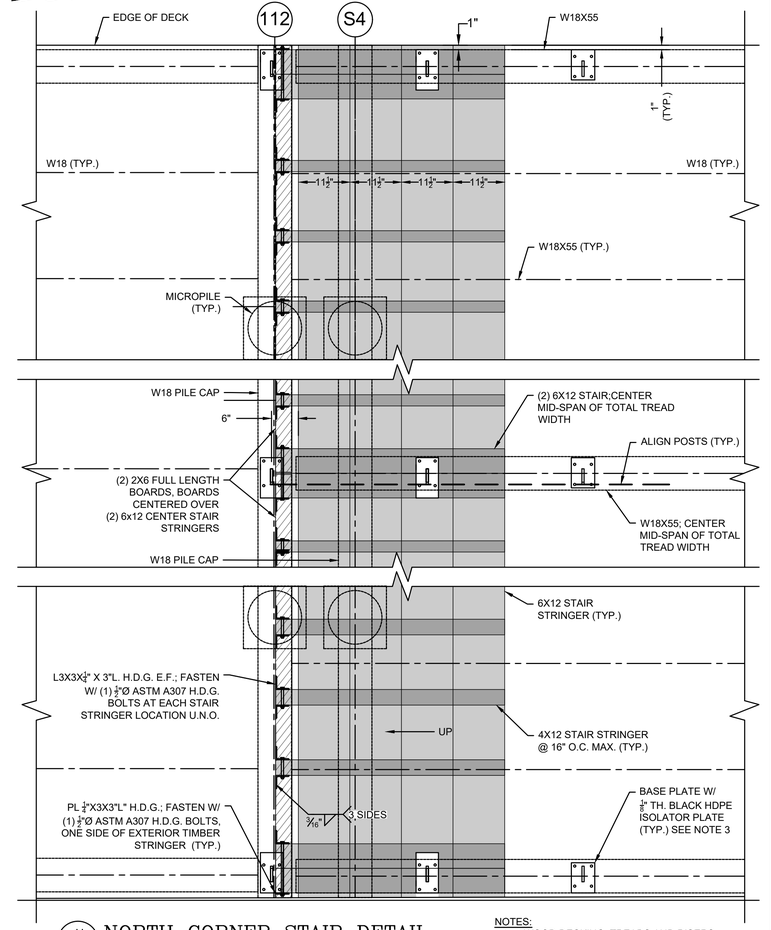


8 MS-12 NORTH CORNER STAIR SECTION

SCALE 3/4" = 1'-0"

NOTES:

1. FOR BASE PLATE AND RAILING INFORMATION, SEE L AND LD DRAWINGS.
2. FOR ADDITIONAL INFORMATION ON W18 TO PILE CONNECTION, SEE DETAIL U/MS-13



JJ MS-18 NORTH CORNER STAIR DETAIL

SCALE 3/4" = 1'-0"

NOTES:

1. WOOD DECKING, TREADS AND RISERS NOT SHOWN FOR CLARITY.
2. FOR BASE PLATE AND RAILING INFORMATION, SEE L AND LD DRAWINGS.

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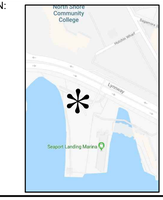
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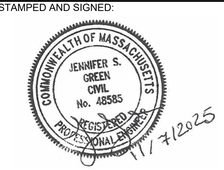
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

STAIR DETAILS

ACCESSION #:105028x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

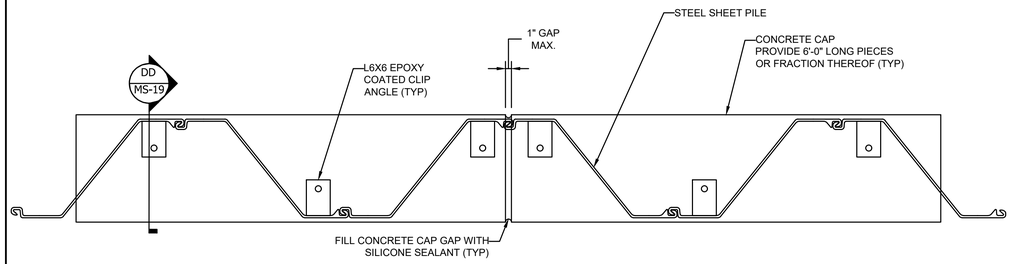
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

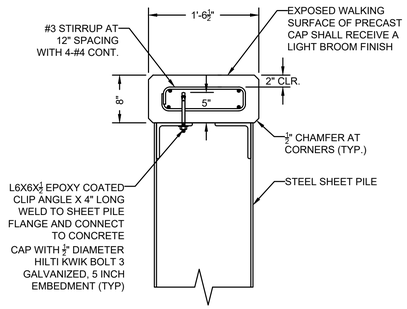
DRAWING NO.

MS-18



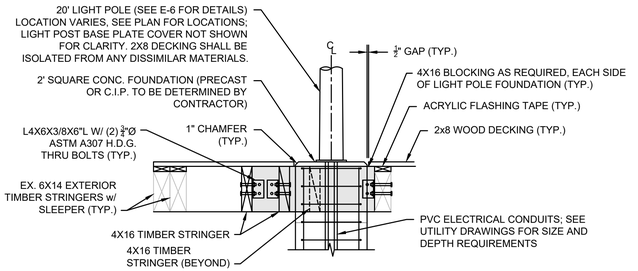
4 MS-19 TYPICAL PRECAST CONCRETE CAP DETAIL

SCALE 1" = 1'-0"



DD MS-4 TYPICAL PRECAST CONCRETE CAP SECTION

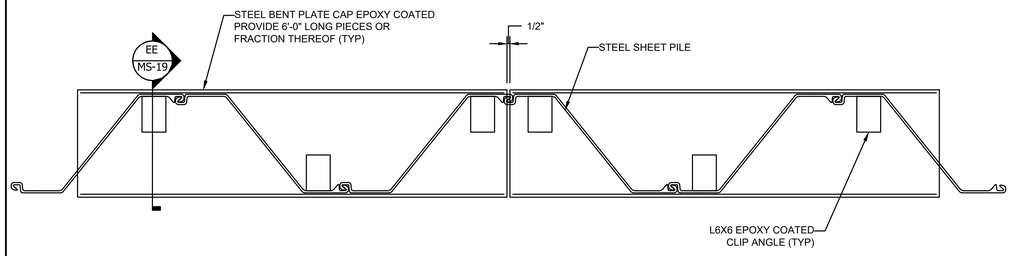
SCALE 1" = 1'-0"



FF MS-15 LIGHT POLE FOUNDATION FRAMING SECTION BENTS G-64, G-71 & G-78

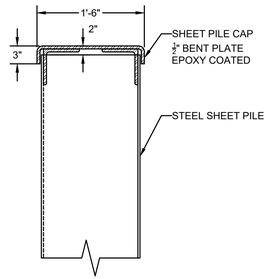
SCALE 1" = 2'-0"

NOTES:
1. SEE SECTION AA THIS SHEET FOR LIGHT POLE FOUNDATION DETAILS NOT SHOWN.
2. HANDRAIL NOT SHOWN FOR CLARITY.



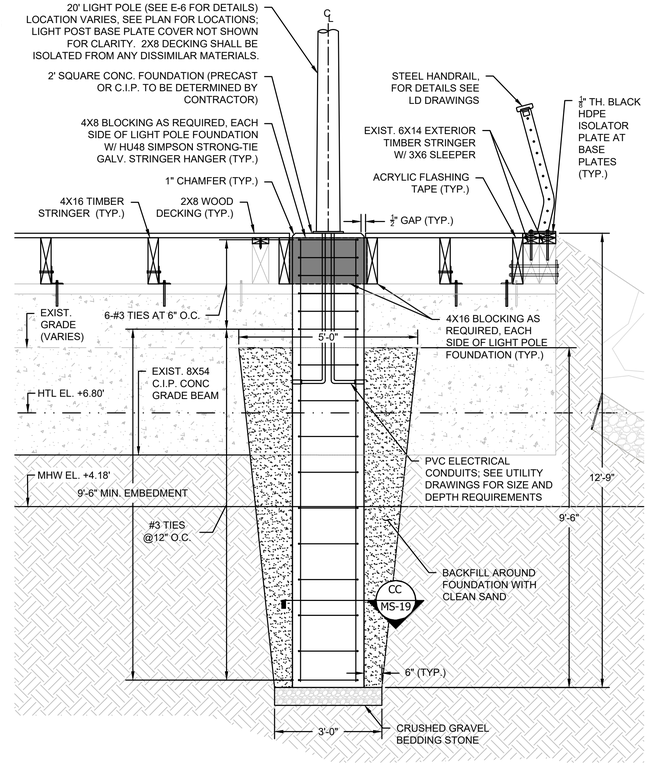
5 MS-19 TYPICAL STEEL CAP DETAIL

SCALE 1" = 1'-0"



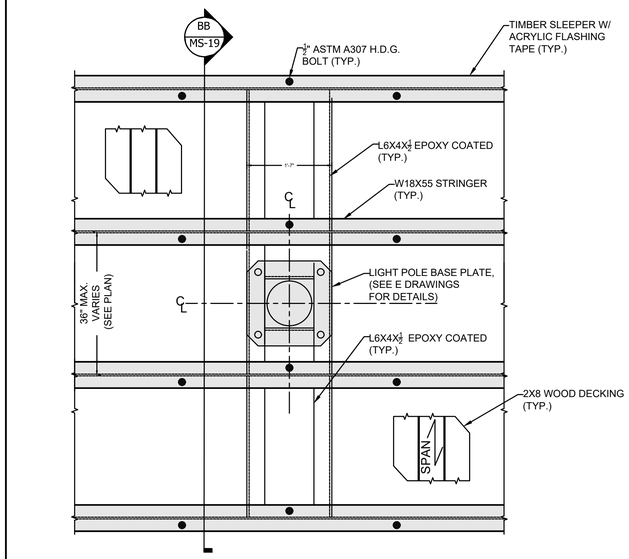
EE MS-4 TYPICAL STEEL CAP SECTION

SCALE 1" = 1'-0"



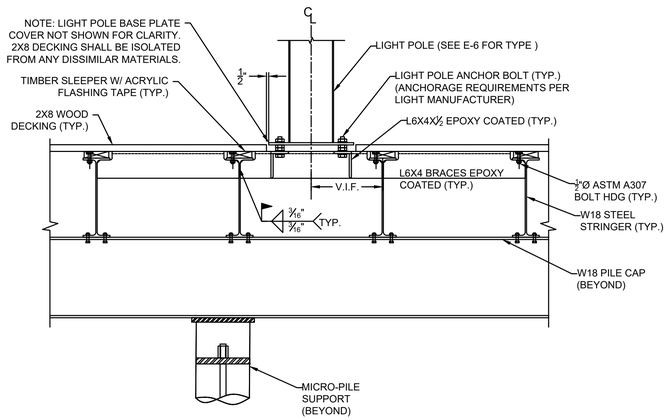
AA MS-14 LIGHT POLE FOUNDATION SECTION BENTS G-48 & G-56

SCALE 1" = 2'-0"



4 MS-19 STEEL FRAMING PARTIAL PLAN AT LIGHT POLE SUPPORT

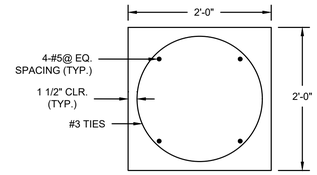
SCALE 3/4" = 1'-0"



BB MS-11 STEEL FRAMING LIGHT POLE SUPPORT SECTION

SCALE 3/4" = 1'-0"

NOTES:
1. ALL MICROPILE SUPPORTED BOARDWALK STRUCTURAL STEEL FRAMING (W18 STRINGERS, W18 PILE CAPS, MICROPILE CAP PLATES, CONNECTION ANGLES, ETC.) SHALL BE EPOXY COATED.
2. TOP TWO SECTIONS OF MICROPILES SHALL BE EPOXY COATED.



CC MS-19 LIGHT POLE FOUNDATION REINFORCEMENT

SCALE 1" = 1'-0"

GRAPHIC SCALE 0 0.5 1 2 (IN FEET) ¾ INCH = 1 FEET

GRAPHIC SCALE 0 0.5 1 2 (IN FEET) 1 INCH = 1 FEET

GRAPHIC SCALE 0 1 2 4 (IN FEET) 1 INCH = 2 FEET

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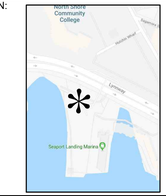
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VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

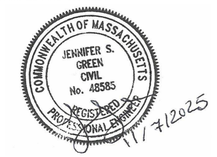
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

LIGHT POLE SUPPORT & SHEET PILE CAP DETAILS

ACCESSION #:105029x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

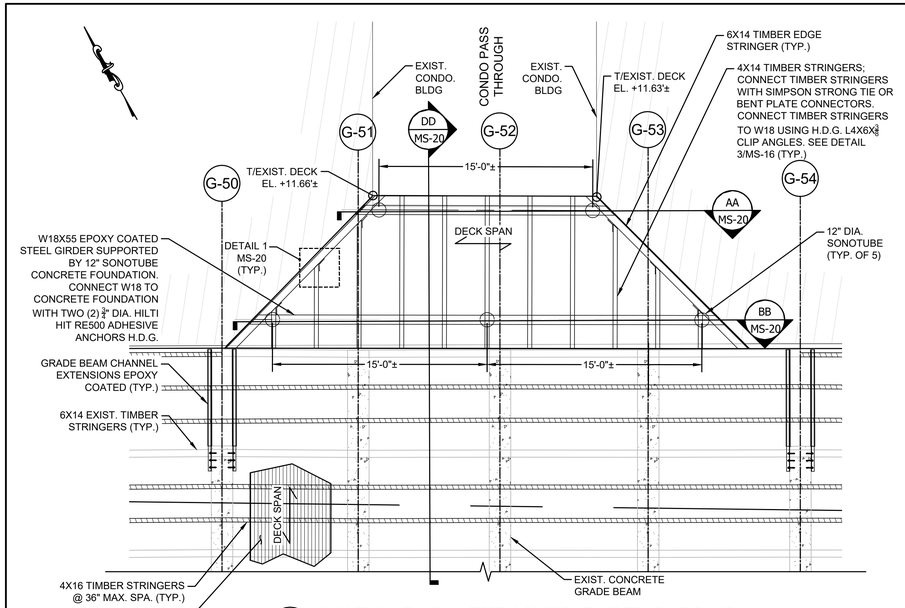
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

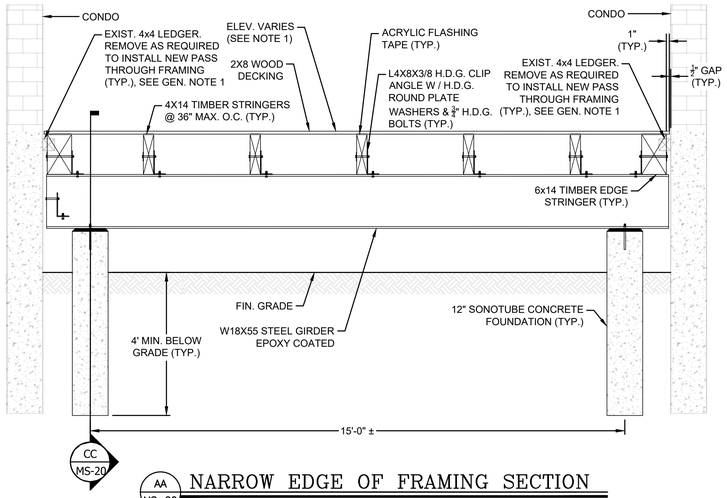
DRAWING NO.

MS-19



2 MS-14 CONDO PASS THROUGH PARTIAL PLAN

SCALE 1" = 5'-0"

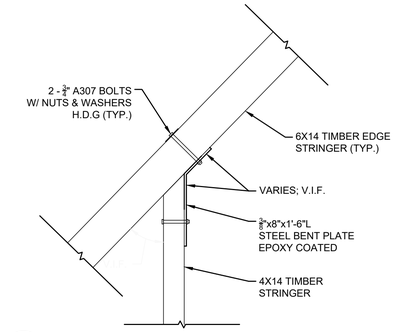


AA MS-20 NARROW EDGE OF FRAMING SECTION

SCALE 1/2" = 1'-0"

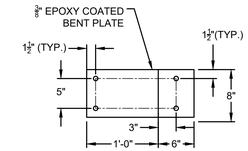
NOTES:

1. CONSTRUCT PASS THROUGH TO MEET TOP OF DECK ELEVATION AT ALL INTERFACES OF ADJACENT EXISTING OR PROPOSED DECK SURFACES.
2. THE CONTRACTOR SHALL APPLY SIKA ARMATEC-110 EPOCEM OR APPROVED EQUAL TO ANY REMAINING CUT-OFF LEDGER ANCHORS TO PREVENT OR PROTECT ANCHORS FROM CORRODING AND DAMAGING SURROUNDING CONCRETE. PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH PRODUCT MANUFACTURER'S RECOMMENDATIONS.



1 MS-20 FRAMING CONNECTIONS DETAIL

SCALE 1" = 1'-0"

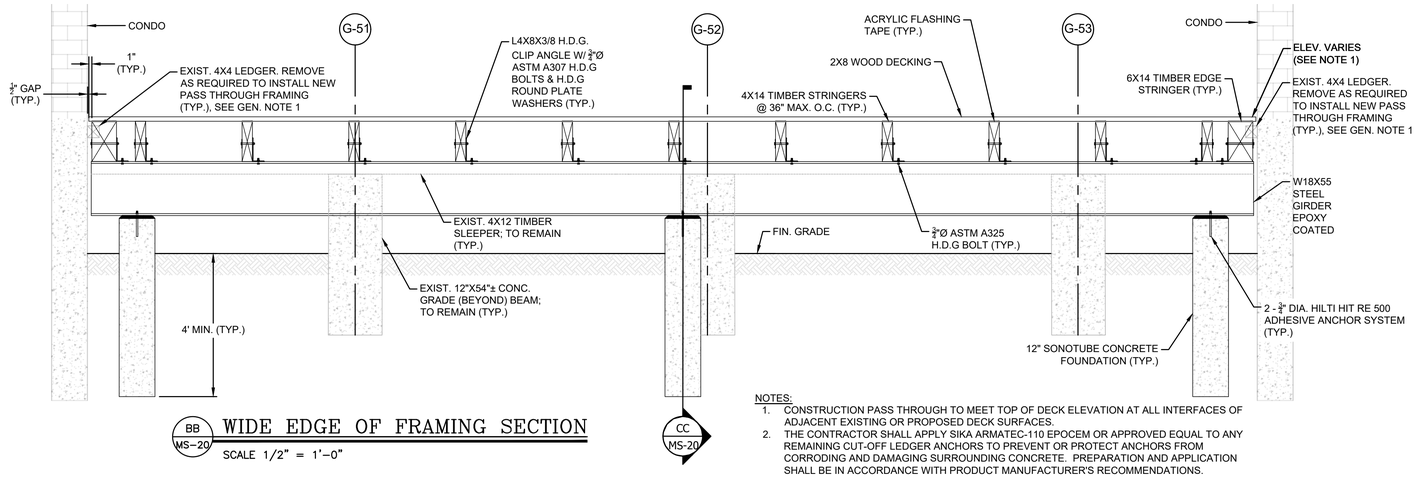


4 MS-20 BENT PLATE DETAIL

SCALE 1" = 1'-0"

NOTES:

1. VERIFY ALL PLATE DIMENSIONS IN FIELD PRIOR TO FABRICATION



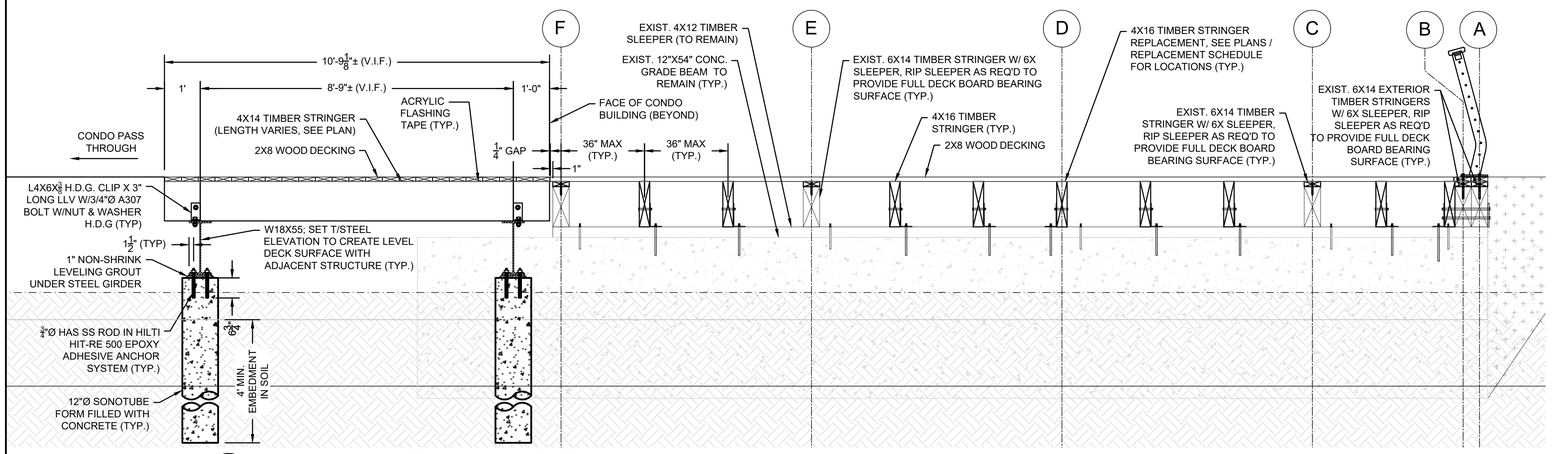
BB MS-20 WIDE EDGE OF FRAMING SECTION

SCALE 1/2" = 1'-0"

CC MS-20

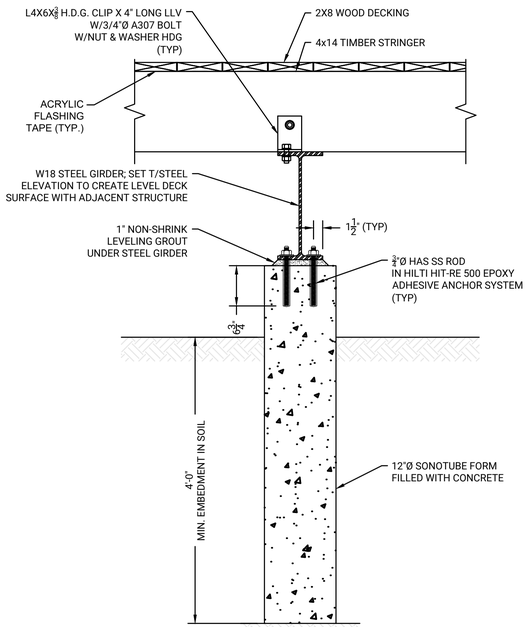
NOTES:

1. CONSTRUCTION PASS THROUGH TO MEET TOP OF DECK ELEVATION AT ALL INTERFACES OF ADJACENT EXISTING OR PROPOSED DECK SURFACES.
2. THE CONTRACTOR SHALL APPLY SIKA ARMATEC-110 EPOCEM OR APPROVED EQUAL TO ANY REMAINING CUT-OFF LEDGER ANCHORS TO PREVENT OR PROTECT ANCHORS FROM CORRODING AND DAMAGING SURROUNDING CONCRETE. PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH PRODUCT MANUFACTURER'S RECOMMENDATIONS.



DD MS-20 CONDO PASS THROUGH SECTION

SCALE 1/2" = 1'-0"



CC MS-20 CONDO PASS-THRU FRAMING SECTION

SCALE 1" = 1'-0"

GENERAL NOTES:

1. IF REMOVAL OF THE EXISTING 4X4 LEDGER IS REQUIRED TO COMPLETE THE WORK, THE CONTRACTOR SHALL APPLY SIKA ARMATEC-110 EPOCEM OR APPROVED EQUAL TO ANY REMAINING CUT-OFF LEDGER ANCHORS TO PREVENT OR PROTECT ANCHORS FROM CORRODING AND DAMAGING SURROUNDING CONCRETE. PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH PRODUCT MANUFACTURER'S RECOMMENDATIONS.

GRAPHIC SCALE 0 1 2 4 (IN FEET) ½ INCH = 1 FEET

GRAPHIC SCALE 0 0.5 1 2 (IN FEET) 1 INCH = 1 FEET

GRAPHIC SCALE 0 2.5 5 10 (IN FEET) 1 INCH = 5 FEET

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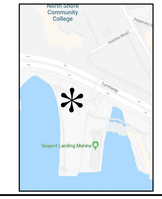
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for the Department of Conservation and Recreation

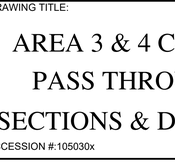
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

AREA 3 & 4 CONDO PASS THROUGH SECTIONS & DETAILS

ACCESSION #:105030x

DESIGNED: JSG/AM/TW

DRAWN: JSD CHECKED: JSG

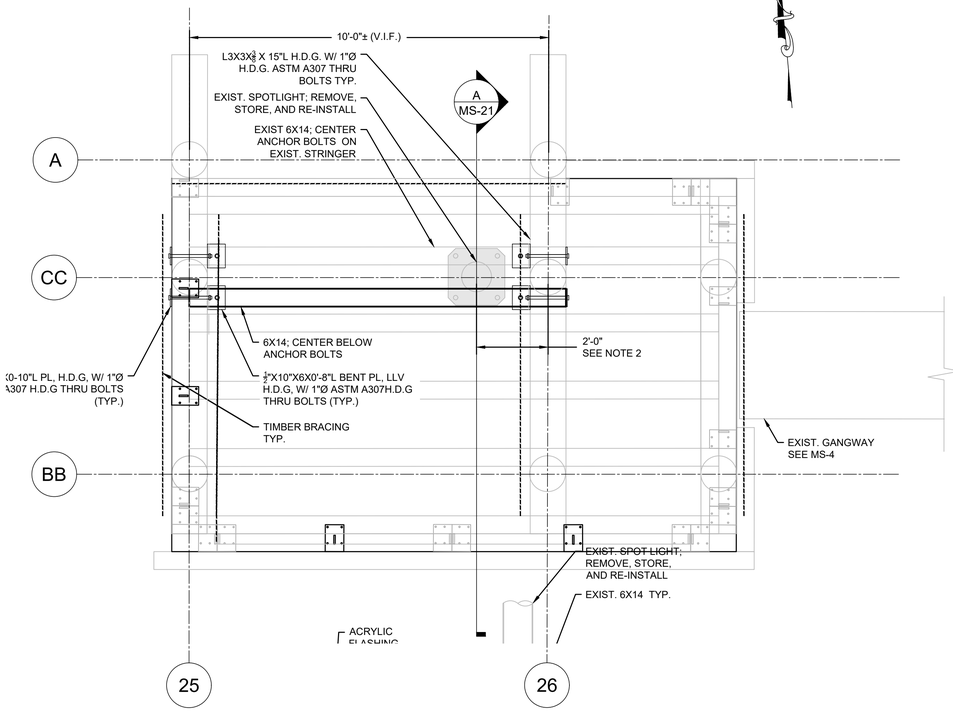
DATE: NOVEMBER 12, 2025

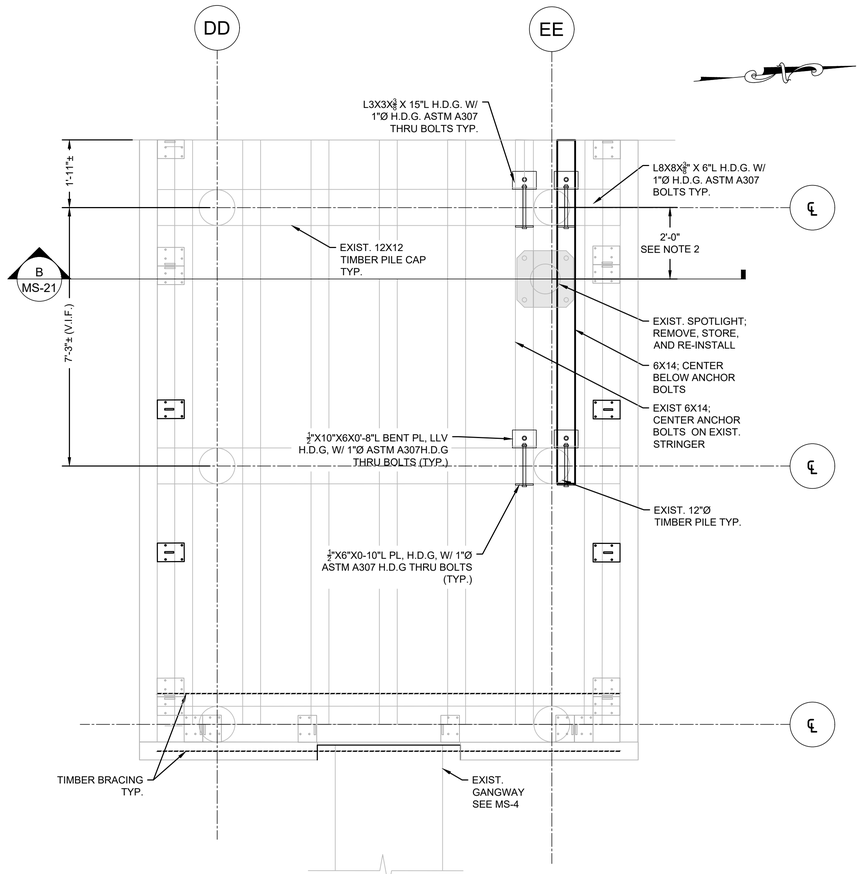
SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

MS-20





1 MS-21 EASTERN MARINA GANGWAY LANDING – PARTIAL PLAN

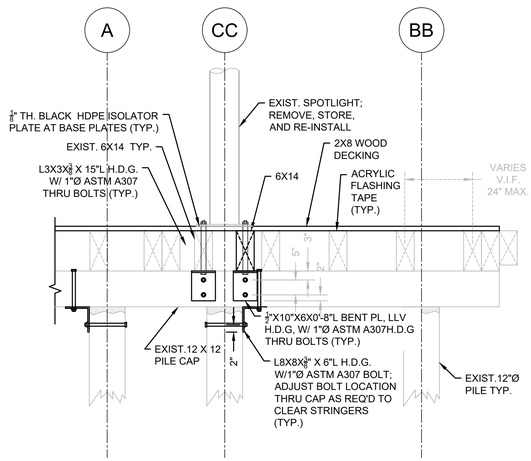
SCALE 1/2" = 1'-0"

NOTES:
1. WOOD DECKING NOT SHOWN FOR CLARITY.
2. HANDRAIL NOT SHOWN FOR CLARITY.

2 MS-21 NORTHERN MARINA GANGWAY LANDING – PARTIAL PLAN

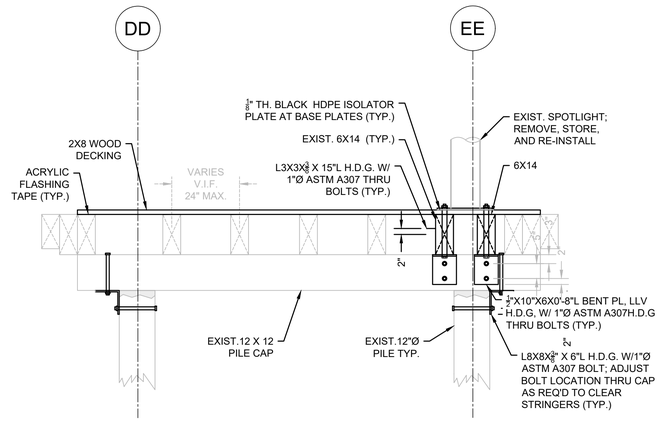
SCALE 1/2" = 1'-0"

NOTES:
1. WOOD DECKING NOT SHOWN FOR CLARITY.
2. HANDRAIL NOT SHOWN FOR CLARITY.



A MS-21 EASTERN MARINA GANGWAY LANDING SECTION

SCALE 1/2" = 1'-0"



B MS-21 NORTHERN MARINA GANGWAY LANDING SECTION

SCALE 1/2" = 1'-0"

SPOTLIGHT RE-INSTALLATION NOTES:

1. CONTRACTOR SHALL REMOVE, STORE, AND RE-INSTALL THE EXISTING MARINA GANGWAY LANDING SPOT LIGHTS.
2. LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY FINAL SPOTLIGHT LOCATION BASED ON EXISTING ANCHOR BOLT PATTERN AND TIMBER STRINGER LOCATIONS. COORDINATE FINAL LOCATION OF SPOT LIGHTS WITH ENGINEER / OWNER PRIOR TO RE-INSTALLATION.
3. ALL NEW CONNECTION ANGLES, BOLTS AND MISC. HARDWARE SHALL BE HOT DIPPED GALVANIZED.
4. AFTER RE-INSTALLATION, RESTORE ELECTRICAL SERVICE TO LIGHTS TO MATCH EXISTING.

GRAPHIC SCALE
0 1 2 4
(IN FEET)
1/2 INCH = 1 FEET

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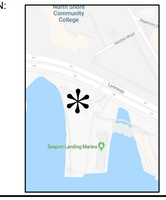
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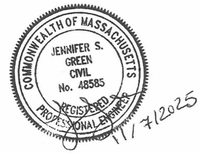
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

GANGWAY LANDING SPOTLIGHT SUPPORT DETAILS

ACCESSION #:105031x

DESIGNED: JSG/AM/TW

DRAWN: CJG CHECKED: JSG

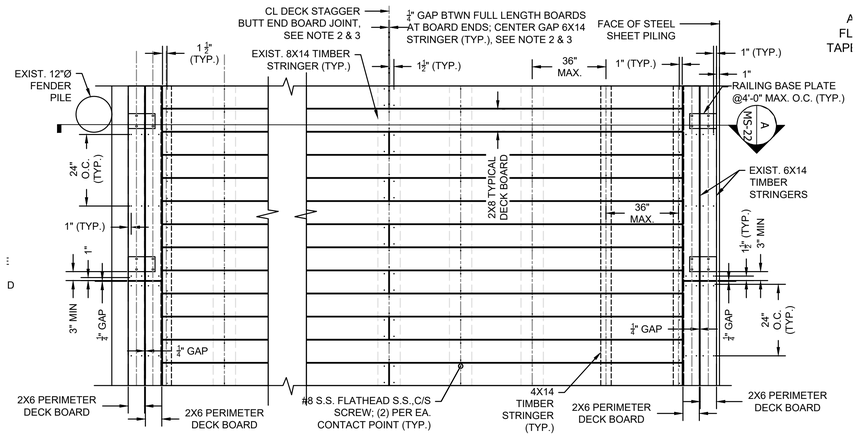
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

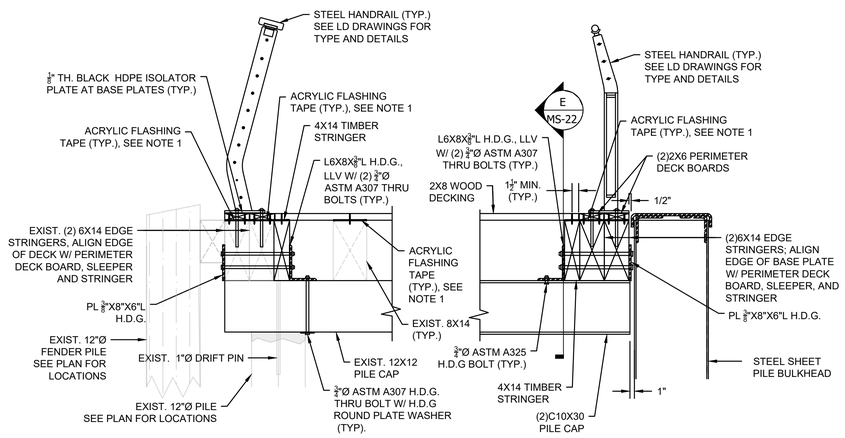
DRAWING NO.

MS-21



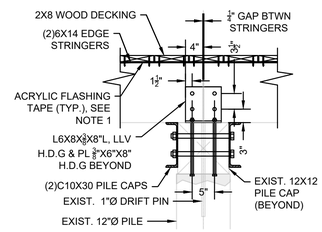
1 MS-22 AREA 1 WOOD DECK PARTIAL PLAN AT TIMBER PILE SUPPORTED BOARDWALK

SCALE 1" = 2'-0" NOTE: SUPPORT PILES NOT SHOWN FOR CLARITY



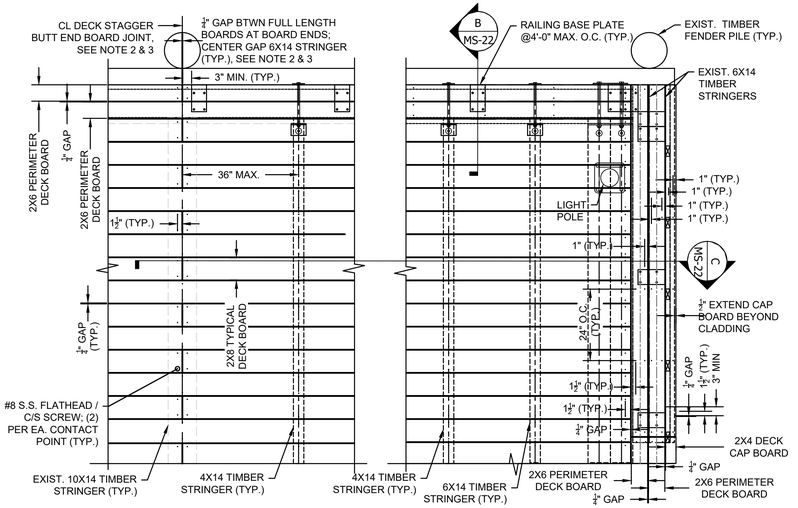
M MS-4 A MS-22 AREA 1 WOOD DECK SECTION AT TIMBER PILE SUPPORTED BOARDWALK

SCALE 3/4" = 1'-0"



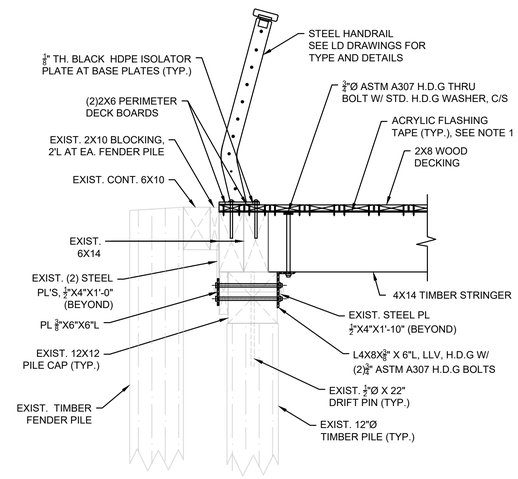
E MS-22 CONNECTION SECTION

SCALE 3/4" = 1'-0"



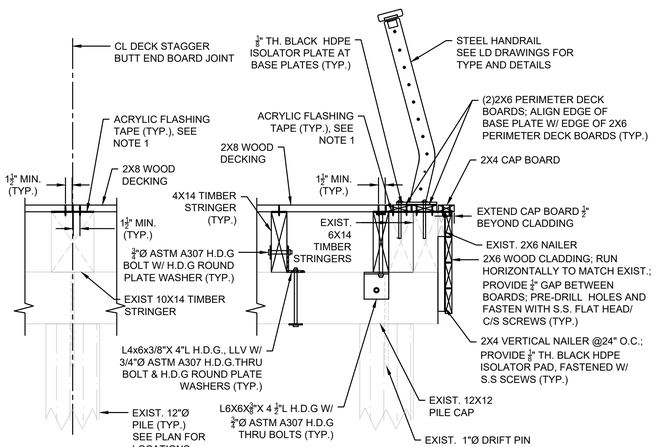
2 MS-22 AREA 1 WOOD DECK PARTIAL PLAN AT PAVILION

SCALE 1" = 2'-0" NOTE: SUPPORT PILES NOT SHOWN FOR CLARITY



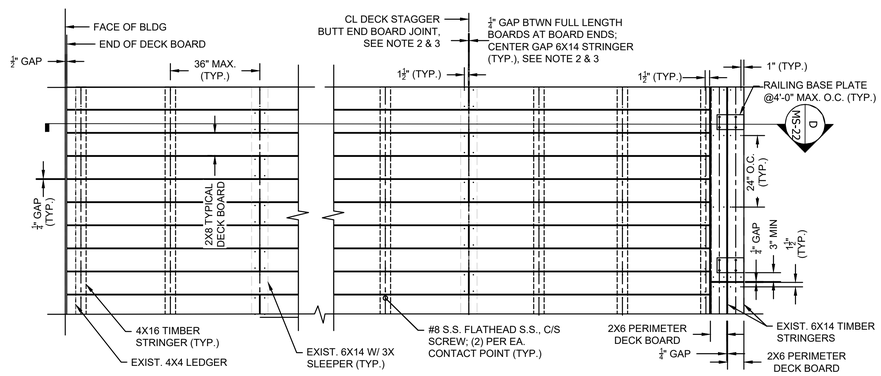
J MS-8 B MS-22 AREA 1 WOOD DECK SECTION AT PAVILION

SCALE 3/4" = 1'-0"



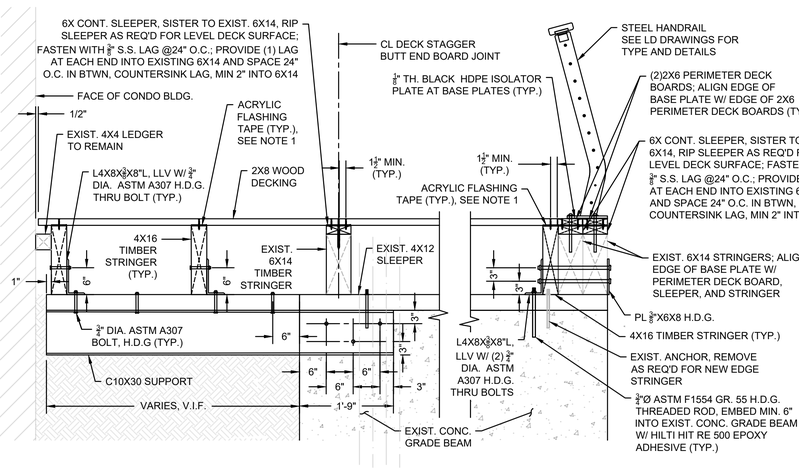
K MS-8 C MS-22 AREA 1 WOOD DECK SECTION AT PAVILION

SCALE 3/4" = 1'-0"



3 MS-22 AREA 3/4 WOOD PARTIAL DECK PLAN AT GRADE BEAM SUPPORTED BOARDWALK

SCALE 1" = 2'-0" NOTE: SUPPORT PILES NOT SHOWN FOR CLARITY



L MS-14 L MS-15 D MS-22 AREA 3/4 WOOD DECK SECTION AT GRADE BEAM SUPPORTED BOARDWALK

SCALE 3/4" = 1'-0"

NOTES:

1. PROVIDE SOLVENT RESISTANT FLASHING TAPE (G-TAPE OR APPROVED EQUAL) CONTINUOUS AND FULL WIDTH ALONG TOP OF PT SLEEPERS AND TIMBER STRINGERS.
2. BUTT JOINT LOCATIONS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. SUBMIT DECK BOARD LAYOUT PLAN WITH BUTT JOINT BOARD LOCATIONS FOR ENGINEER/LANDSCAPE ARCHITECT REVIEW AND APPROVAL.
3. PROVIDE FULL LENGTH DECK BOARDS WHERE POSSIBLE TO MINIMIZE FIELD CUTS. STAGGER BUTT END JOINTS OF BOARDS WITH A OF A ¾" GAP BETWEEN ENDS OF BOARDS. JOINTS BETWEEN FULL LENGTH BOARDS MUST OCCUR AT EXISTING STRINGERS WITH DIMENSIONAL WIDTH GREATER THAN 4-INCHES.

GRAPHIC SCALE

0 3/8 3/4 1.5

(IN FEET)

1 INCH = 3/4 FEET

GRAPHIC SCALE

0 1 2 4

(IN FEET)

1 INCH = 2 FEET

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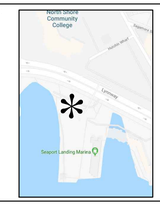
Stantec Consulting Services Inc.
45 Blue Sky Drive, 3rd Floor
Burlington, MA 01803
Tel: 781.221.1000
www.stantec.com

VETERANS MEMORIAL PARK

WATERFRONT IMPROVEMENTS AND BOARDWALK RECONSTRUCTION
Lynn, MA

for the Department of Conservation and Recreation

KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:

COMMONWEALTH OF MASSACHUSETTS
JENNIFER S. GREEN
CIVIL
No. 48585
REGISTERED PROFESSIONAL ENGINEER
11/7/2025

DRAWING TITLE:

WOOD DECK DETAILS
SHEET 1 OF 2

ACCESSION #:105032x

DESIGNED: JSG/AM/TW

DRAWN: JSG CHECKED: JSG

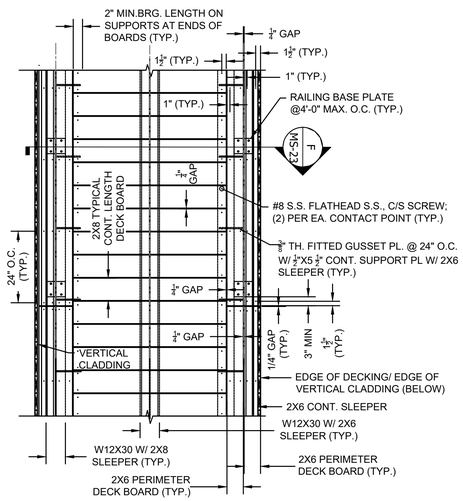
DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

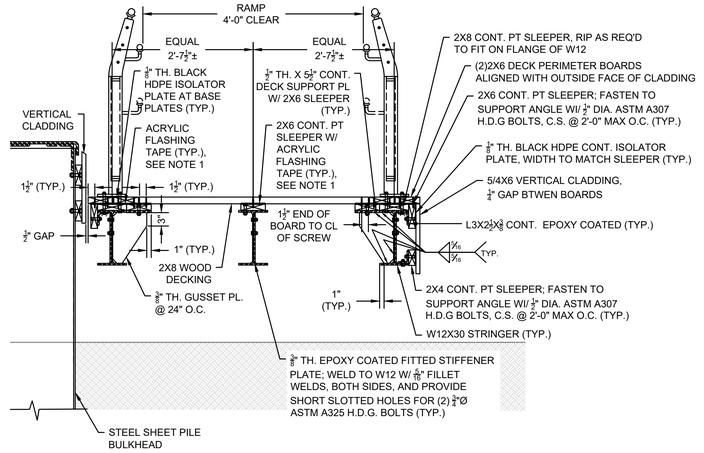
DRAWING NO.

MS-22



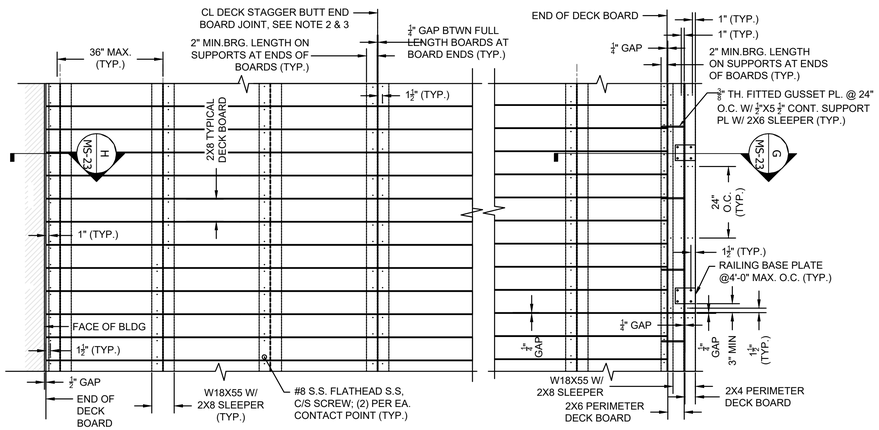
4 MS-23 WOOD DECK PARTIAL PLAN AT HARBOR MASTER BUILDING

SCALE 1/2" = 1'-0"



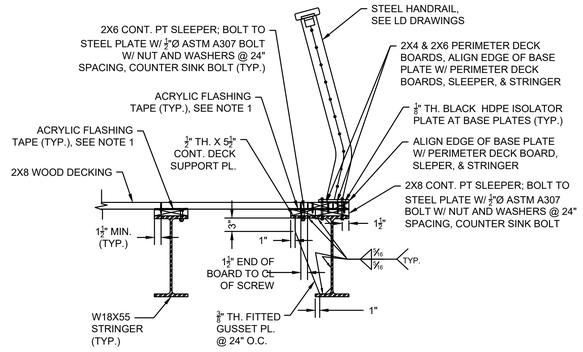
A MS-9 F MS-23 WOOD DECK SECTION AT HARBOR MASTER BUILDING RAMP

SCALE 3/4" = 1'-0"



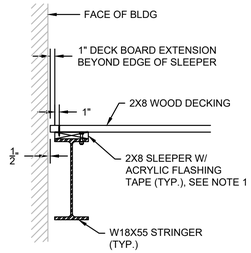
5 MS-23 AREA 2 PARTIAL WOOD DECK PLAN AT MICROPILE SUPPORTED BOARDWALK – WITH RAILING

SCALE 1/2" = 1'-0"



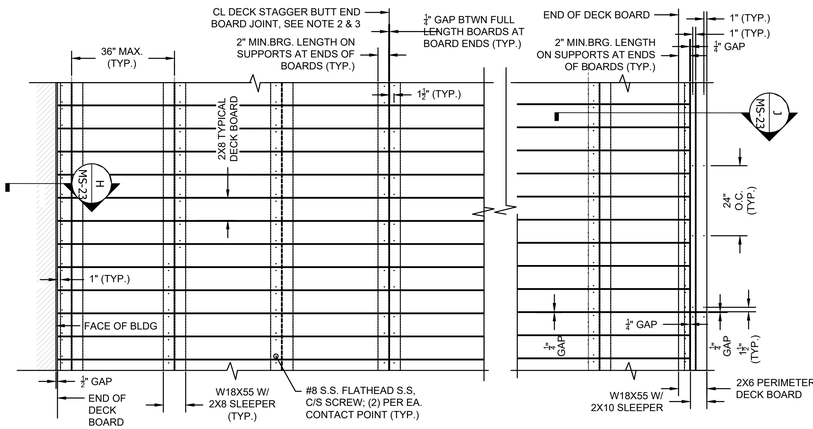
B MS-11 G MS-23 AREA 2 WOOD DECK SECTION AT MICROPILE SUPPORTED BOARDWALK–WATERSIDE EDGE – WITH RAILING

SCALE 3/4" = 1'-0"



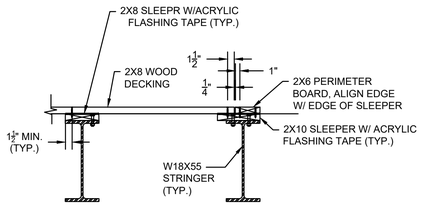
C MS-11 H MS-23 AREA 2 WOOD DECK SECTION AT MICROPILE SUPPORTED BOARDWALK – BUILDING EDGE

SCALE 3/4" = 1'-0"



6 MS-23 AREA 2 PARTIAL WOOD DECK PLAN AT MICROPILE SUPPORTED BOARDWALK – NO HANDRAIL

SCALE 1/2" = 1'-0"



D MS-11 J MS-23 AREA 2 WOOD DECK SECTION AT MICROPILE SUPPORTED BOARDWALK–WATERSIDE EDGE – NO RAILING

SCALE 3/4" = 1'-0"

NOTES:
NOTES:
1. PROVIDE SOLVENT RESISTANT FLASHING TAPE (G-TAPE OR APPROVED EQUAL) CONTINUOUS AND FULL WIDTH ALONG TOP OF PT SLEEPERS AND TIMBER STRINGERS.
2. BUTT JOINT LOCATIONS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. SUBMIT DECK BOARD LAYOUT PLAN WITH JOINT LOCATIONS FOR ENGINEER/LANDSCAPE ARCHITECT REVIEW AND APPROVAL.
3. PROVIDE FULL LENGTH DECK BOARDS WHERE POSSIBLE TO MINIMIZE FIELD CUTS. STAGGER BUTT END JOINTS OF BOARDS WITH A OF A ¼" GAP BETWEEN ENDS OF BOARDS. BUTT END JOINTS MUST HAVE A MINIMUM BEARING LENGTH OF 2-INCHES AT SUPPORT LOCATIONS.

GRAPHIC SCALE
0 3/8 3/4 1 1/2
(IN FEET)
1 INCH = 3/4 FEET

GRAPHIC SCALE
0 1/4 1/2 1
(IN FEET)
1 INCH = 1/2 FEET

BROWN, RICHARDSON + ROWE
LANDSCAPE ARCHITECTS AND PLANNERS
65 FRANKLIN ST, 4TH FLOOR
BOSTON, MA 02110
T: 617 . 542 . 8552 F: 617 . 542 . 8517
WWW.BROWNROWE.COM

dcr Massachusetts

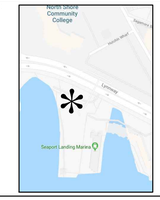
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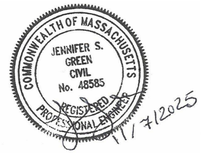
KEY PLAN:



ISSUE:

NO.	REVISION	DATE

STAMPED AND SIGNED:



DRAWING TITLE:

WOOD DECK DETAILS SHEET 2 OF 2

ACCESSION #:105033x

DESIGNED: JSG/AM/TW

DRAWN: JSG CHECKED: JSG

DATE: NOVEMBER 12, 2025

SCALE: AS NOTED

SUBMISSION: BID SET

DRAWING NO.

MS-23