

PERMIT SET

ALDEN A. MILLS FIRE STATION

140 LYNNWAY

REVERE, MASSACHUSETTS

Prepared for:

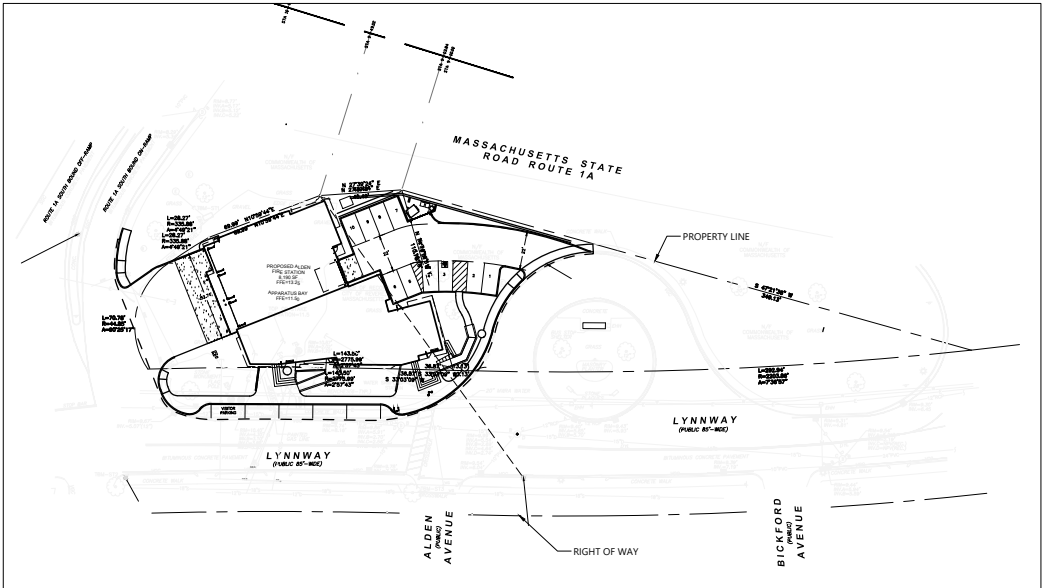
WINTER STREET ARCHITECTS

27 CONGRESS STREET SUITE 201

SALEM, MA 01970

PLAN INDEX

- C-01 TITLE SHEET
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PROJECT SITE

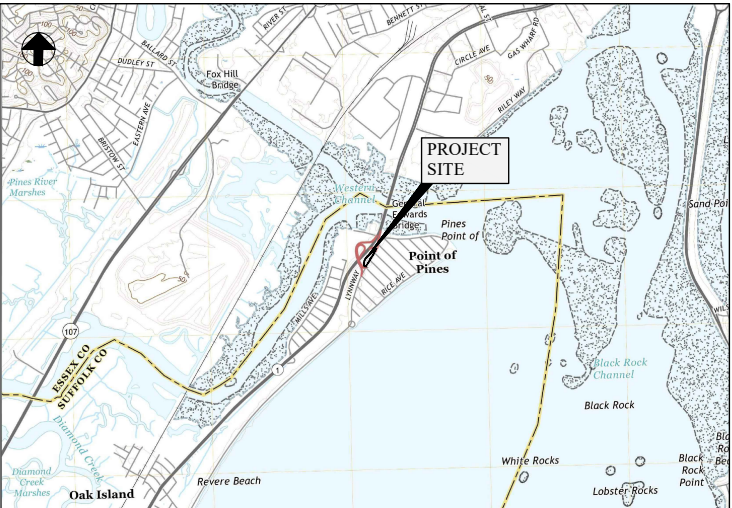
SCALE: 1"=50'

Issue Date:

MAY 23, 2022

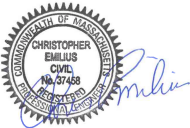
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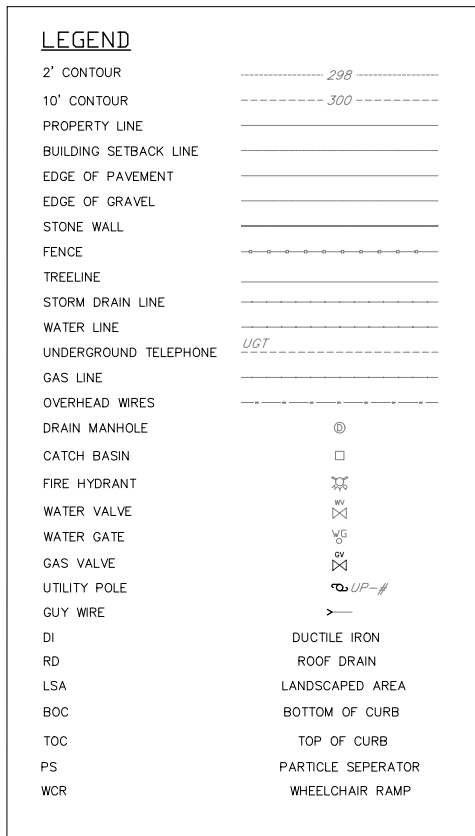
Brennan Consulting
ENGINEERING TRANSPORTATION SURVEYING
24 RAY AVENUE, BURLINGTON, MA
PHONE: (781) 273-3434 FAX: (781) 273-3430



SITE LOCUS MAP

SCALE: 1" = 2000'





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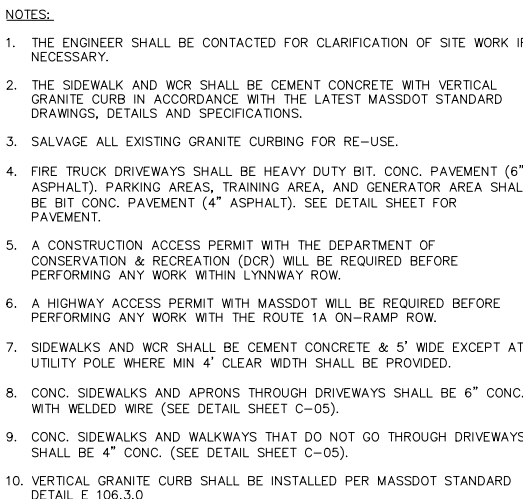
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NO.	DATE	DESCRIPTION	BY		
CHECKED BY: CE					
DRAWN BY: CG					
PROJECT 19954B					
C-02					

SITE PREPARATION PLAN
LOCATED IN
140 LYNNWAY
REVERE, MA

WINTER STREET ARCHITECTS
PREPARED FOR

Brennan Consulting
ENGINEERING • TRANSPORTATION • SURVEYING
24 RAY AVENUE, BURLINGTON, VA
PHONE: (781) 273-3454 FAX: (781) 273-3450

SCALE: 1" = 20'



**SITE LAYOUT PLAN
LOCATED IN
140 L YNNWAY**

REVERE, MA
PREPARED FOR
WINTER STREET ARCHITECTS

DATE: 5-23-2022

SCALE: 1" = 20'

Brennan Consulting
ENGINEERING • TRANSPORTATION • SURVEYING
24 RAY AVENUE, BURLINGTON, WA
PHONE: (781) 273-3434 FAX: (781) 273-3430

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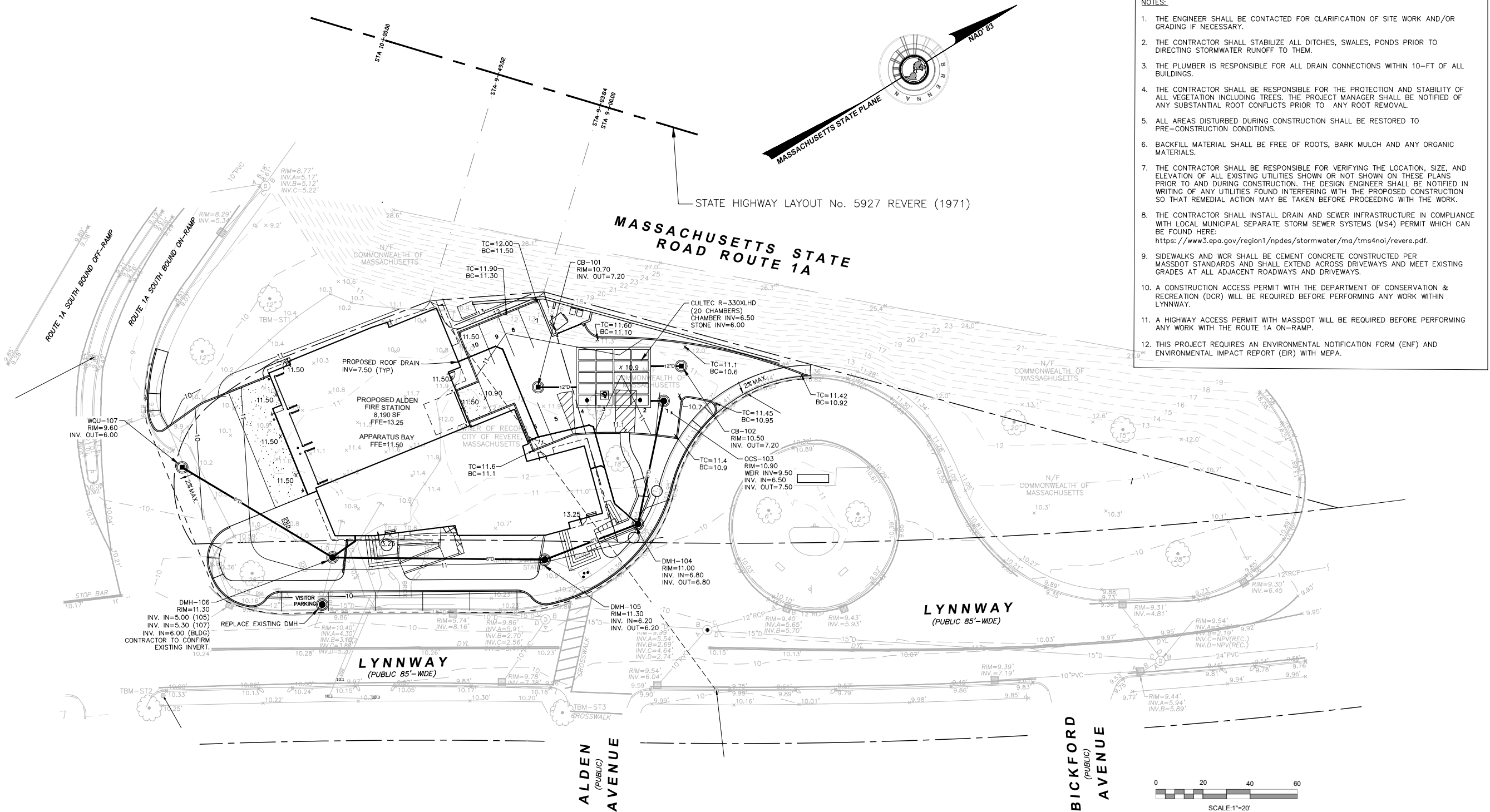
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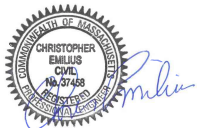
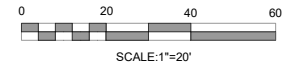
PROJECT 19954B

C-03





- NOTES:
1. THE ENGINEER SHALL BE CONTACTED FOR CLARIFICATION OF SITE WORK AND/OR GRADING IF NECESSARY.
 2. THE CONTRACTOR SHALL STABILIZE ALL DITCHES, SWALES, PONDS PRIOR TO DIRECTING STORMWATER RUNOFF TO THEM.
 3. THE PLUMBER IS RESPONSIBLE FOR ALL DRAIN CONNECTIONS WITHIN 10'-FT OF ALL BUILDINGS.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND STABILITY OF ALL VEGETATION INCLUDING TREES. THE PROJECT MANAGER SHALL BE NOTIFIED OF ANY SUBSTANTIAL ROOT CONFLICTS PRIOR TO ANY ROOT REMOVAL.
 5. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.
 6. BACKFILL MATERIAL SHALL BE FREE OF ROOTS, BARK MULCH AND ANY ORGANIC MATERIALS.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS PRIOR TO AND DURING CONSTRUCTION. THE DESIGN ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION SO THAT REMEDIAL ACTION MAY BE TAKEN BEFORE PROCEEDING WITH THE WORK.
 8. THE CONTRACTOR SHALL INSTALL DRAIN AND SEWER INFRASTRUCTURE IN COMPLIANCE WITH LOCAL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4) PERMIT WHICH CAN BE FOUND HERE:
<https://www3.epa.gov/region1/npdes/stormwater/ma/tms4noi/revere.pdf>.
 9. SIDEWALKS AND WCR SHALL BE CEMENT CONCRETE CONSTRUCTED PER MASSDOT STANDARDS AND SHALL EXTEND ACROSS DRIVEWAYS AND MEET EXISTING GRADES AT ALL ADJACENT ROADWAYS AND DRIVEWAYS.
 10. A CONSTRUCTION ACCESS PERMIT WITH THE DEPARTMENT OF CONSERVATION & RECREATION (DCR) WILL BE REQUIRED BEFORE PERFORMING ANY WORK WITHIN LYNNWAY.
 11. A HIGHWAY ACCESS PERMIT WITH MASSDOT WILL BE REQUIRED BEFORE PERFORMING ANY WORK WITH THE ROUTE 1A ON-RAMP.
 12. THIS PROJECT REQUIRES AN ENVIRONMENTAL NOTIFICATION FORM (ENF) AND ENVIRONMENTAL IMPACT REPORT (EIR) WITH MEPA.



GRADING AND DRAINAGE PLAN
LOCATED IN
140 LYNNWAY
REVERE, MA
PREPARED FOR
WINTER STREET ARCHITECTS

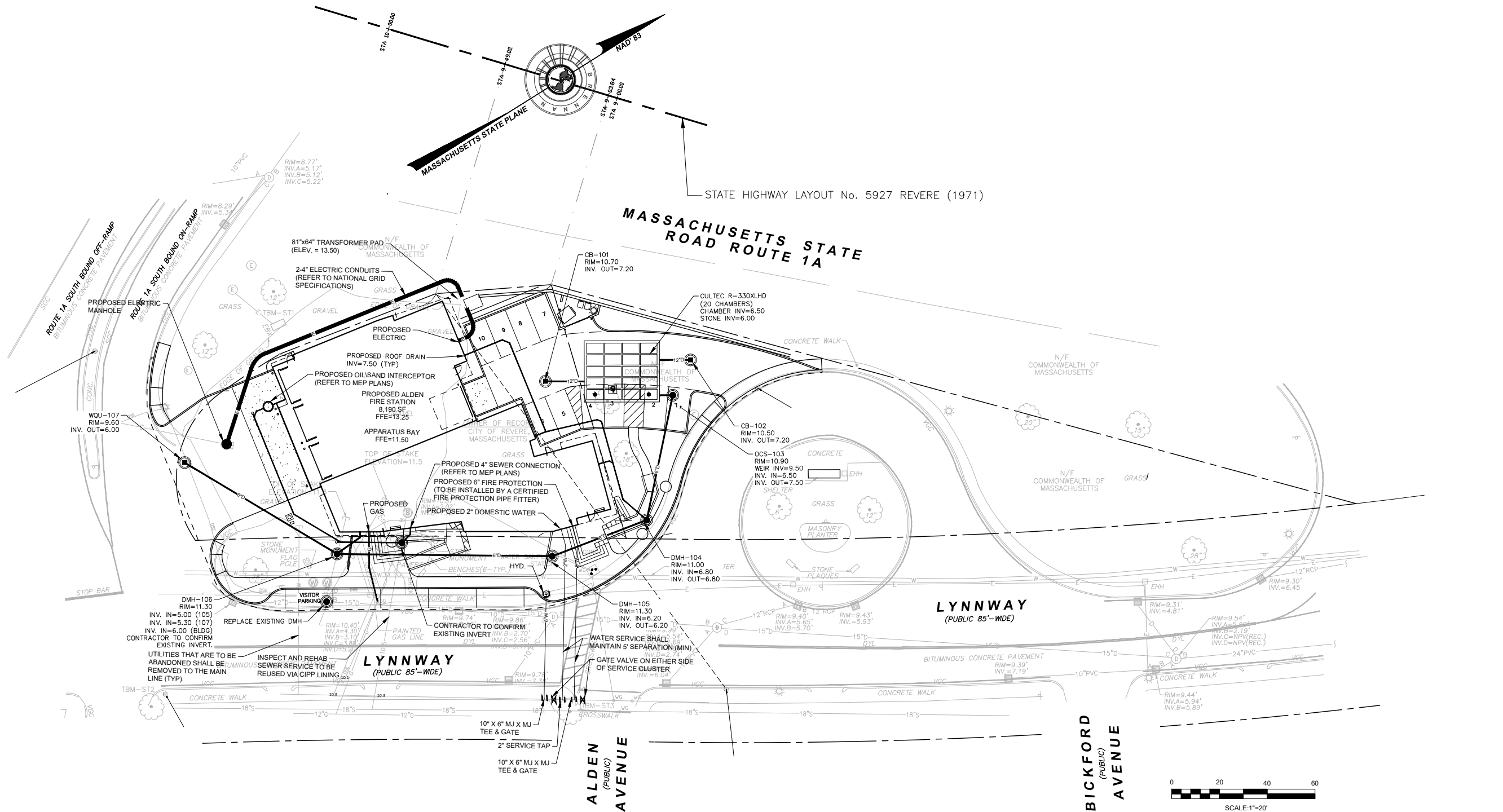
SCALE: 1" = 20'
DATE: 5-23-2022

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DRAWN BY: CG
PROJECT 19954B

C-04



UTILITY PLAN
LOCATED IN
140 LYNNWAY
REVERE, MA

PREPARED FOR
WINTER STREET ARCHITECTS

DATE: 5-23-2022

SCALE: 1" = 20'

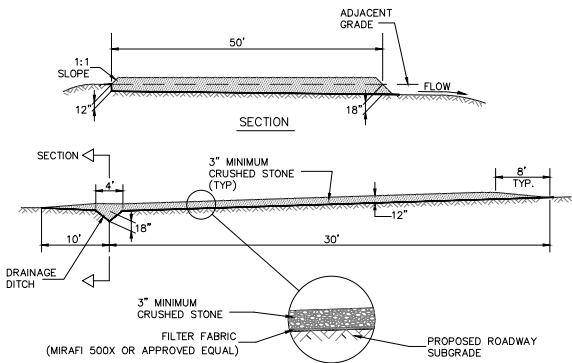
Brennan Consulting
ENGINEERING • TRANSPORTATION • SURVEYING
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PHONE: (781) 273-3434 FAX: (781) 273-3430

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NO.	DATE	DESCRIPTION	BY

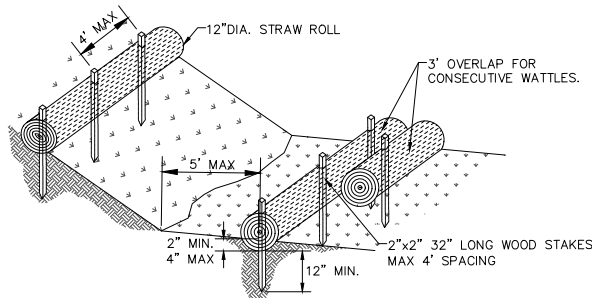
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DRAWN BY: CG

PROJECT 19954B

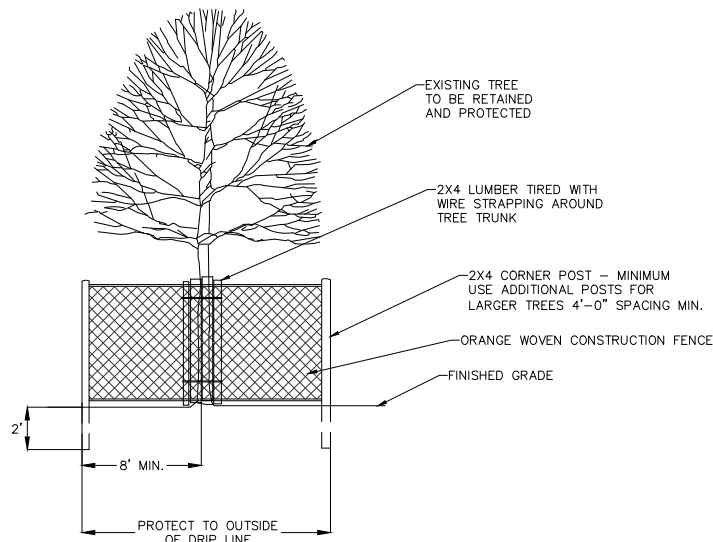
C-05



TEMPORARY CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE

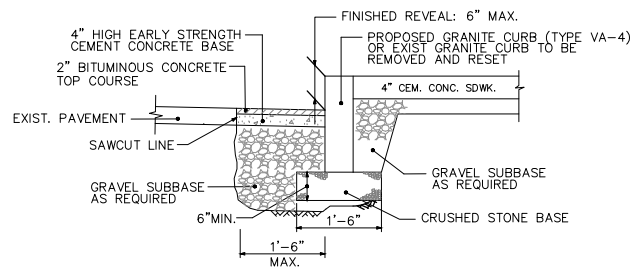


STRAW WATTLE DETAIL
NOT TO SCALE



- NOTES:
1. ALL TREE PROTECTION SHALL BE IN PLACE AND APPROVED BEFORE SITE WORK BEGINS.
 2. THE CONTRACTOR SHALL AVOID ROOT DAMAGE TO TREES. PRUNE ROOTS AS NEEDED AND AVOID LARGER ROOT SYSTEMS.
 3. EXPOSED ROOTS SHALL BE COVERED WITHIN 24 HOURS.
 4. EXPOSED TREE ROOTS SHALL BE COVERED WITH NATURAL MULCH PRODUCTS AND KEPT MOIST UNTIL SOIL IS REPLACED.

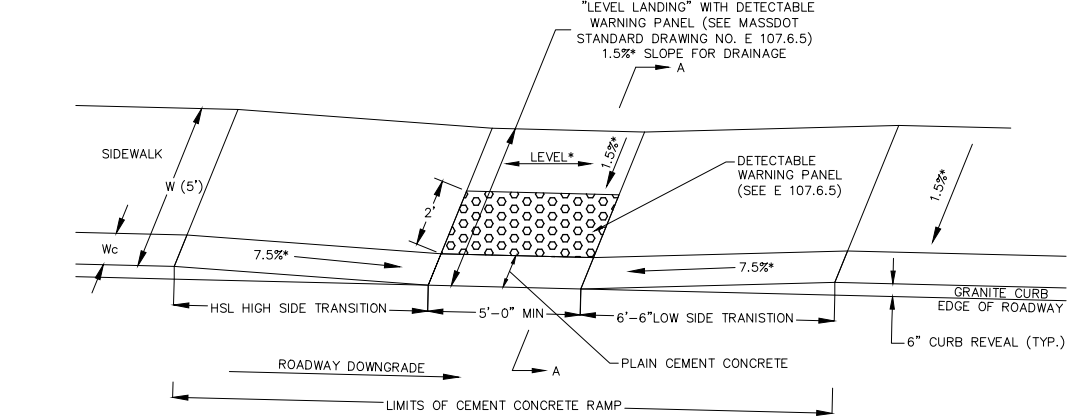
TREE PROTECTION DETAIL
NOT TO SCALE



SETTING OR RESETTING CURB
NOT TO SCALE



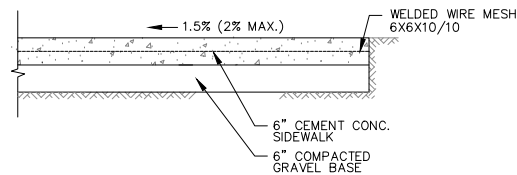
TYPICAL SIGN AND SIGN POST DETAIL
NOT TO SCALE



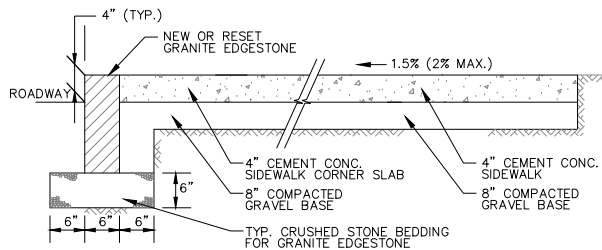
LEGEND:
HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0)
W = SIDEWALK WIDTH
Wc = CURB WIDTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$
USABLE SIDEWALK WIDTH PER AAB = $W - Wc$
USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0"
SEE MASSDOT STANDARD DRAWING NO. E 107.6.5 FOR DETAILS OF DETECTABLE WARNING PANEL

NOTES:
ROADWAY, GUTTER, AND FIRST 6" OF SIDEWALK TO BE ADJUSTED FOR FIELD CONDITIONS

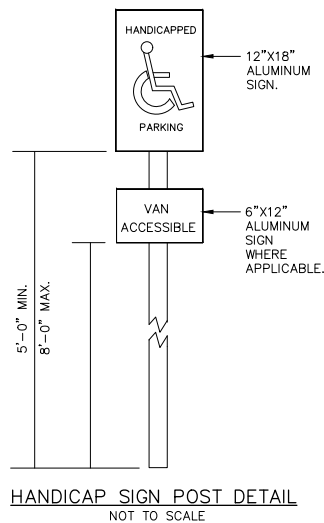
WHEELCHAIR RAMP ON NARROW SIDEWALK WITH DETECTABLE WARNING PANEL
NOT TO SCALE



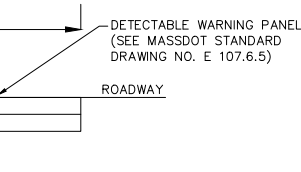
6" CONCRETE SIDEWALK & CONCRETE APRONS THROUGH DRIVEWAYS
NOT TO SCALE



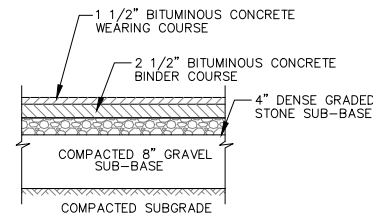
4" CONCRETE SIDEWALK & CONCRETE WALKWAYS
NOT TO SCALE



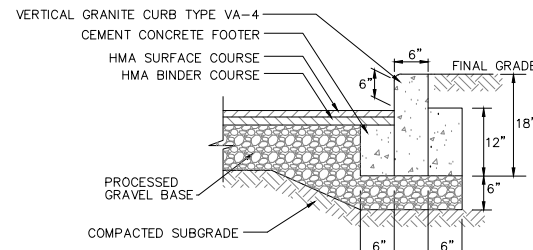
HANDICAP SIGN POST DETAIL
NOT TO SCALE



SECTION A-A

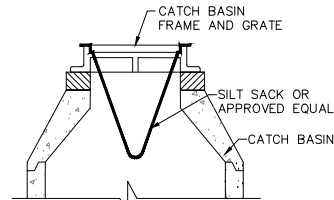


TYPICAL PAVEMENT SECTION DETAIL
NOT TO SCALE



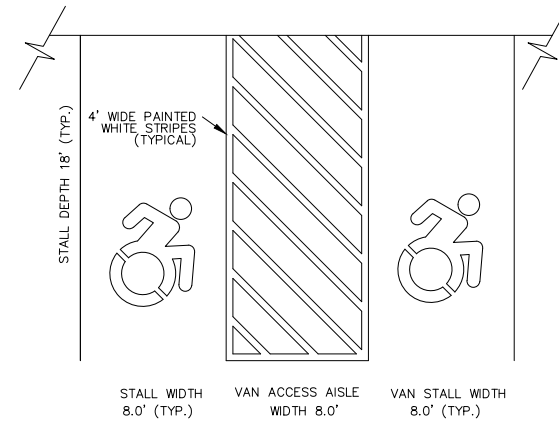
- NOTES:
1. THIS PROCEDURE IS APPLICABLE ONLY IF CURB IS TO BE SET AFTER BASE COURSE IS IN PLACE PRIOR TO BINDER AND TOP PLACEMENT.
 2. CUT NEAT LINE 6" FROM CURB LINE AND REMOVE BASE AND GRAVEL. REPLACE WITH CONCRETE CEMENT.
 3. ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE USED. ALL TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT BE USED AS A SUBSTITUTE.

VERTICAL GRANITE CURB DETAIL
NOT TO SCALE

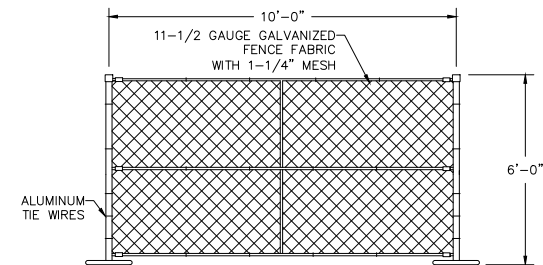


- NOTES:
1. TO BE INSTALLED IN ALL CATCH BASINS THAT COULD RECEIVE RUNOFF FROM DISTURBED AREAS UNTIL COMPLETION OF CONSTRUCTION.

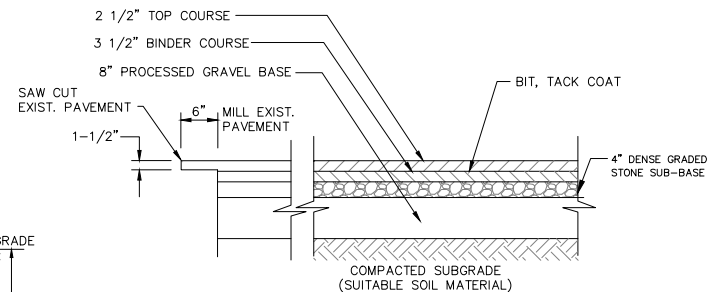
SILT SACK DETAIL
NOT TO SCALE



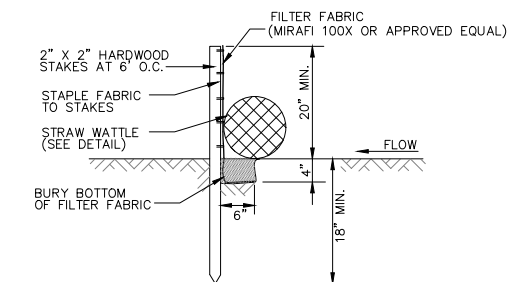
TYPICAL HANDICAP PARKING STRIPING DETAIL
NOT TO SCALE



CONSTRUCTION CHAIN LINK FENCE
NOT TO SCALE



BITUMINOUS CONCRETE PAVEMENT HEAVY DUTY DETAIL
NOT TO SCALE



SILTATION FENCE DETAIL
NOT TO SCALE

CONSTRUCTION DETAILS

LOCATED IN
140 LYNNWAY
REVERE, MA

PREPARED FOR
WINTER STREET ARCHITECTS

DATE: 5-23-2022

SCALE: 1" = 20'

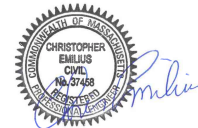
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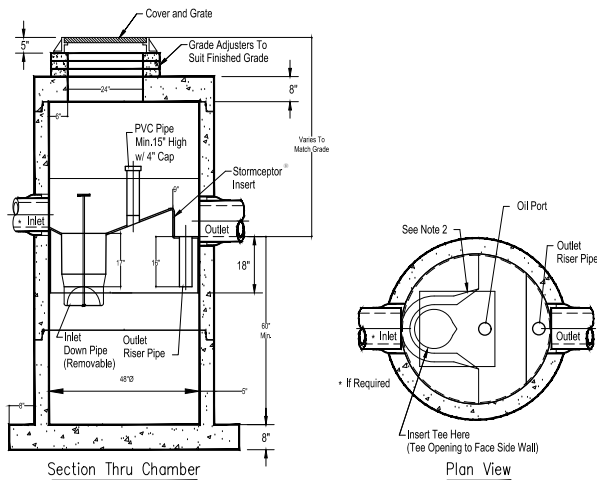
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PROJECT 19954B

C-06



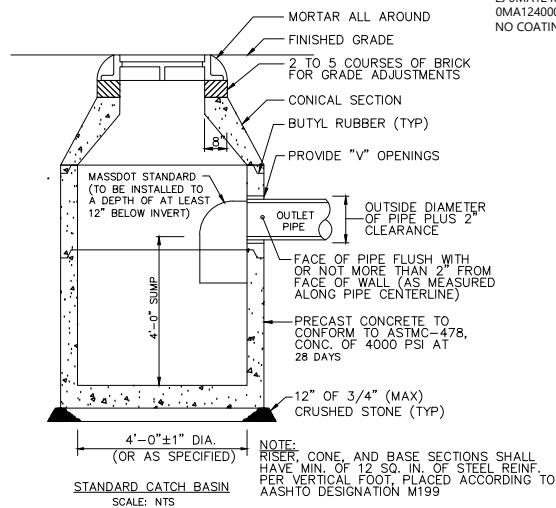


- Notes:
1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
 2. The Cover Should be Positioned Over The Inlet Drop Pipe and The Oil Port.
 3. The Stormceptor System is protected by one or more of the following U.S. Patents: #5753115, #5849181, #6068765, #6371690, #7582216, #7666303.
 4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

PARTICLE SEPARATOR
STC 450i PRECAST CONCRETE STORMCEPTOR OR EQUAL
(450 U.S. GALLON CAPACITY)
 NOT TO SCALE

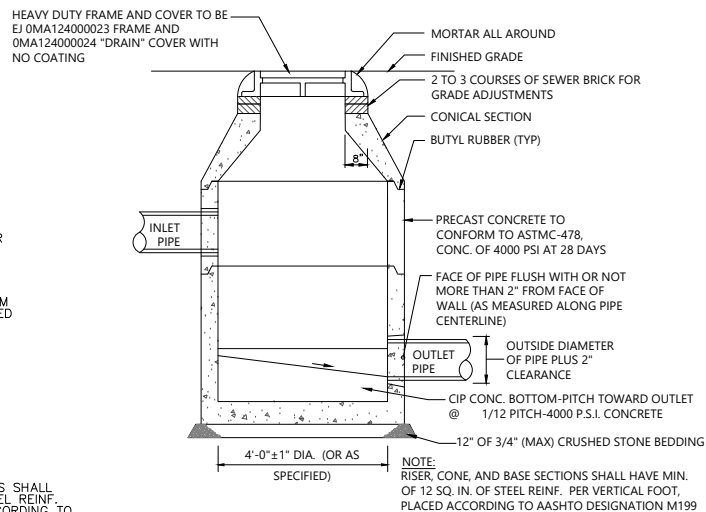
1. REINFORCED STEEL CONFORMS TO LATEST ASTM A185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM.
2. H-20 DESIGN LOADING PER AASHTO HS-20-44; ASTM C478 SPEC FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
3. BUTYL RESIN SECTION JOINT CONFORMS TO LATEST ASTM C443 SPEC.
4. STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC STEP CONFORMS TO LATEST ASTM C478 SPEC.

DIAMETER	WALL THICKNESS	FLOOR THICKNESS
4 FT.	5 IN.	6 IN.
5 FT.	6 IN.	7 IN.
6 FT.	7 IN.	8 IN.

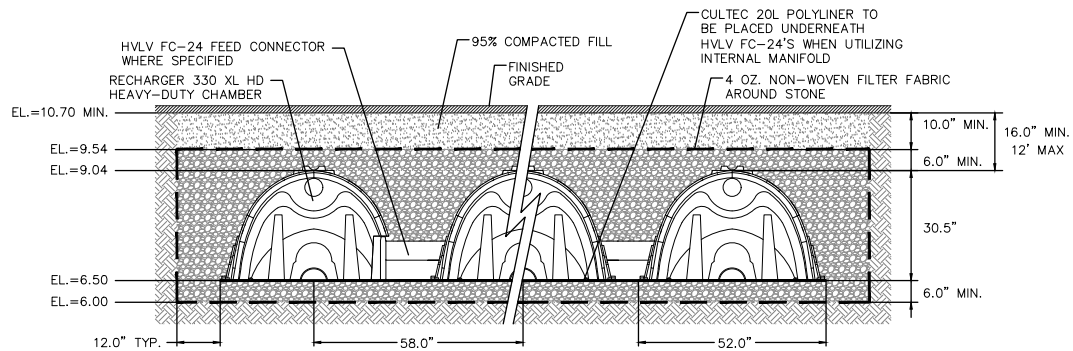


STANDARD CATCH BASIN DETAIL
 NOT TO SCALE

DIAMETER	WALL THICKNESS	FLOOR THICKNESS
4 FT.	5 IN.	6 IN.
5 FT.	6 IN.	7 IN.
6 FT.	7 IN.	8 IN.

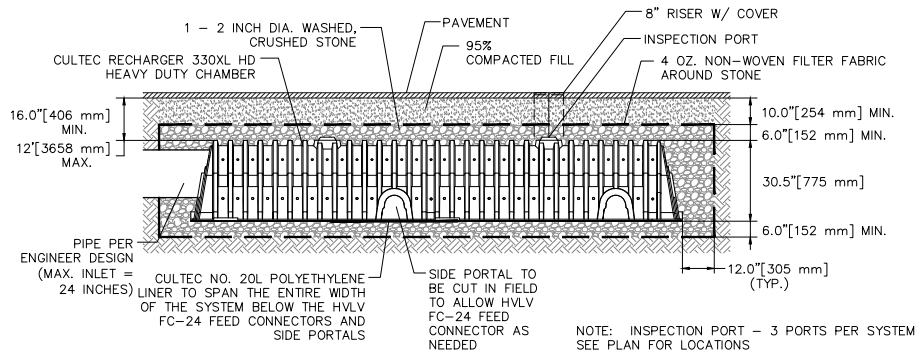


DRAIN MANHOLE DETAIL
 NOT TO SCALE

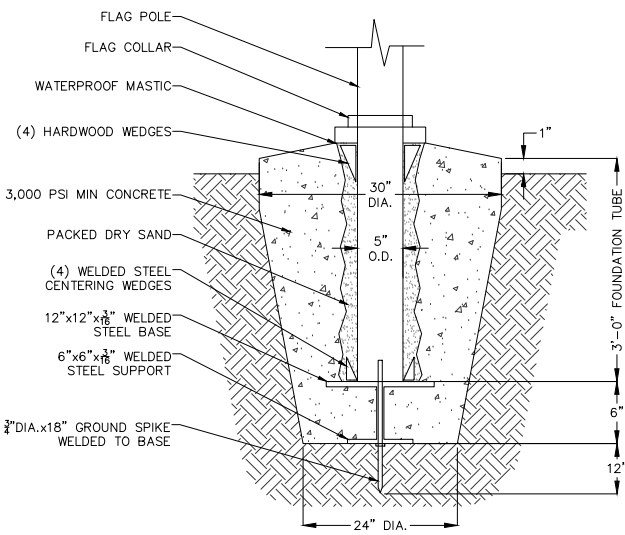


GENERAL NOTES
 RECHARGER 330XL HD BY CULTEC, INC. OF BROOKFIELD, CT.
 STORAGE PROVIDED = 11.32 CF/FT PER DESIGN UNIT.
 REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
 USE RECHARGER 330XL HD HEAVY DUTY FOR TRAFFIC AND/OR HS-25 APPLICATIONS.

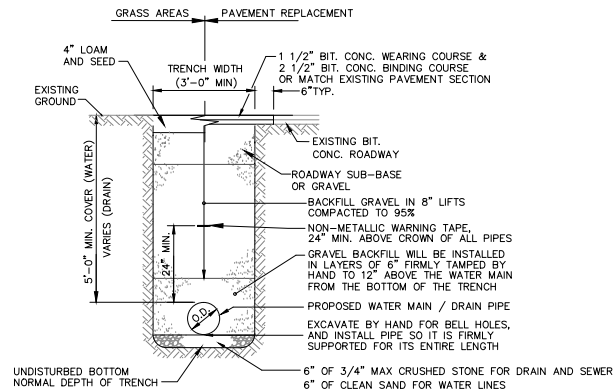
ALL RECHARGER 330XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER. ALL RECHARGER 330XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.



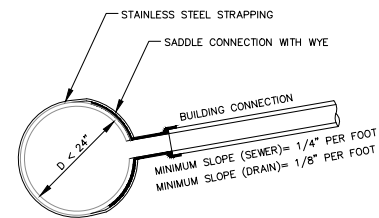
INTERNAL MANIFOLD DETAIL - RECHARGER 330XLHD
 TYPICAL CROSS SECTION
 NOT TO SCALE



FLAG POLE FOUNDATION DETAIL
 NOT TO SCALE

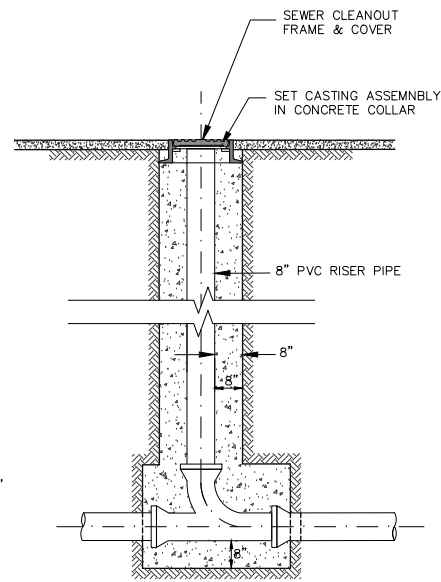


NOTE: ALL PIPE TRENCHES WITH LESS THAN TWO FEET OF COVER OVER THE PIPE SHALL BE LINED WITH FILTER FABRIC AND BACKFILLED WITH CRUSHED STONE. FILTER FABRIC SHALL COVER THE TOP OF THE CRUSHED STONE AND OVERLAP A MINIMUM OF ONE FOOT.

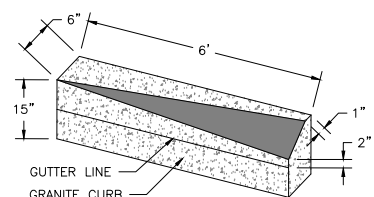


- NOTES:
1. FULL PVC OR IRON SADDLE MAY BE USED TO CONNECT TO EXISTING PVC, CLAY, CONCRETE OR IRON PIPE.
 2. SADDLES MUST HAVE RUBBER GASKETS AND SHALL BE TIGHTENED WITH STRAPS. SADDLES WILL NOT BE CEMENTED ONTO THE PIPE.
 3. FULL WYE CONNECTION FITTINGS MAY BE USED.
 4. PIPE SHALL BE CUT TO CONFORM TO THE OPENING IN THE SADDLE.
 5. CONNECTIONS DIRECTLY INTO THE EXISTING PIPE WITHOUT A SADDLE OR A FULL WYE FITTING ARE NOT ALLOWED.
 6. FOR PREVIOUSLY CIPP LINED PIPE, AN INSERT-A-TEE (OR APPROVED EQUAL) IS REQUIRED FOR SERVICES THAT ARE LESS THAN HALF THE DIAMETER OF THE MAIN LINE OF THE PIPE. ALL OTHER CONNECTIONS MUST BE MADE BY CUTTING A RIGID WYE FITTING INTO THE LINER.

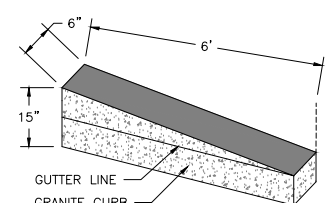
TYPICAL SADDLE CONNECTION TO EXISTING SEWER OR DRAIN
 NOT TO SCALE



NOTE:
 CLEANOUT TOP SHALL BE ENCLOSED IN CASTING AND/OR FABRICATED COVER ASSEMBLY.



6' VERTICAL GRANITE CURB TO SLOPED GRANITE CURB TRANSITION CURB
 NOT TO SCALE



6' VERTICAL GRANITE CURB TO FLUSH GRANITE CURB TRANSITION CURB
 NOT TO SCALE

CONSTRUCTION DETAILS

LOCATED IN
 140 LYNNWAY
 REVERE, MA

PREPARED FOR
 WINTER STREET ARCHITECTS

DATE: 5-23-2022

SCALE: 1" = 20'

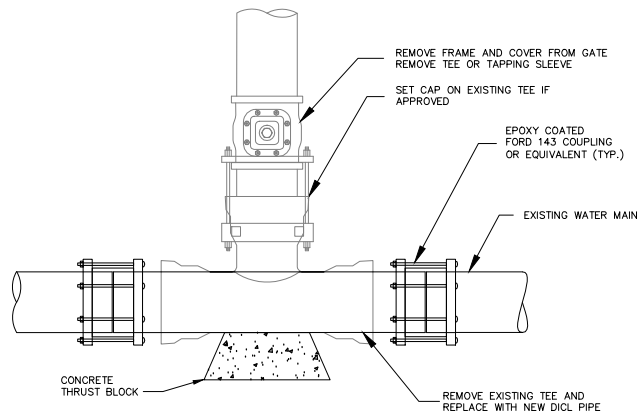
Brennan Consulting
 ENGINEERING • TRANSPORTATION • SURVEYING
 24 RAY AVENUE, BURLINGTON, MA
 PHONE: (781) 273-3434 FAX: (781) 273-3430

REVIEWS	NO.	DATE	DESCRIPTION	BY

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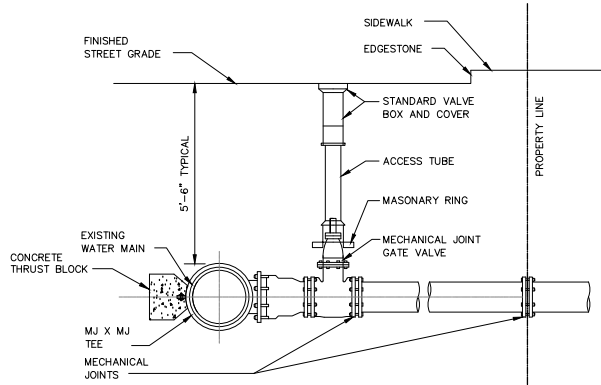
PROJECT 19954B

C-07



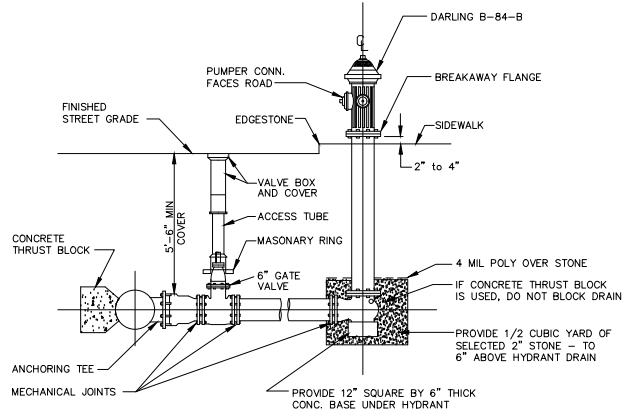
- NOTES:
1. ALL WORK MUST BE PERFORMED BY A BWSC LICENSED AND BONDED CONTRACTOR.
 2. THIS PROCEDURE WILL INVOLVE A MAIN LINE SHUT DOWN THAT THE CONTRACTOR WILL COORDINATE WITH THE BWSC'S OPERATIONS DIVISION.
 3. WRITTEN NOTIFICATION OF ALL AFFECTED CUSTOMERS MUST BE PERFORMED BY THE CONTRACTOR.
 4. ALL WORK MUST BE PERMITTED BY BWSC AND ALL OTHER APPROPRIATE AGENCIES.
 5. ALL WORK MUST BE INSPECTED BY BWSC INSPECTOR OR DESIGNEE.

**DETAIL OF CUT AND CAP
OF WATER CONNECTION 4" AND OVER**
NOT TO SCALE

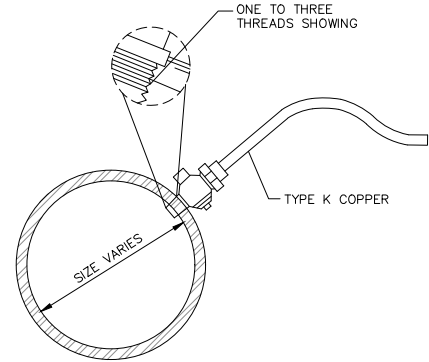


**TYPICAL WATER PIPE CONNECTION WITH
MJ X MJ TEE & GATE VALVE DETAIL**
NOT TO SCALE

- NOTES:
- CONCRETE THRUST BLOCK TO BE USED ONLY WHERE IT WILL BEAR ON UNDISTURBED EARTH.
 - USE RESTRAINED JOINT FITTINGS OR TIE RODS WHERE CONCRETE THRUST BLOCK IS UNACCEPTABLE.
 - SIZE OF BLOCK OR MEGALUG TO BE DESIGNED FOR SPECIFIC CONDITIONS.



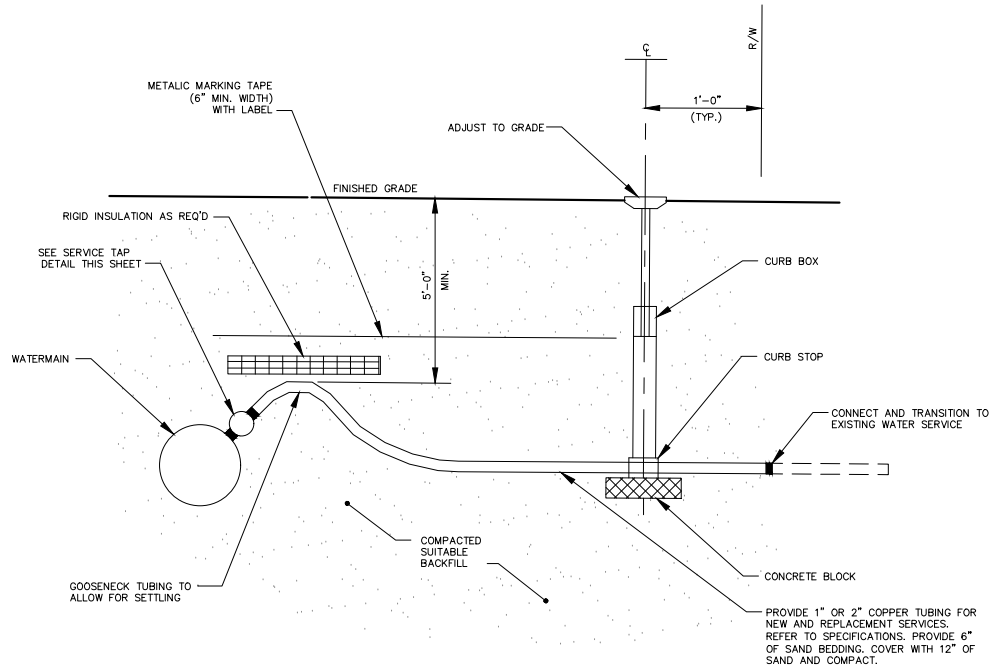
TYPICAL HYDRANT & VALVE DETAIL
NOT TO SCALE



NOTES:

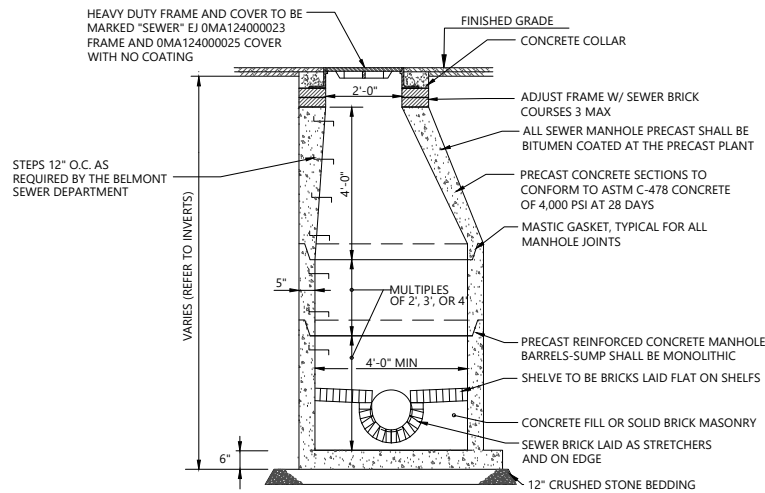
1. SERVICE CONNECTIONS WILL BE INSTALLED SO THAT THE OUTLET IS AT AN ANGLE OF NOT MORE THAN 45° ABOVE THE HORIZONTAL. ALWAYS PUT A BEND OR "GOOSENECK" IN THE SERVICE LINE PRIOR TO CONNECTING TO PROVIDE FLEXIBILITY AND "GIVE" TO COUNTER THE EFFECTS OF A LOAD DUE TO SETTLEMENT OR EXPANSION AND/OR CONTRACTION

SERVICE TAP
(1" AND 2" C.C. THREAD)
NOT TO SCALE



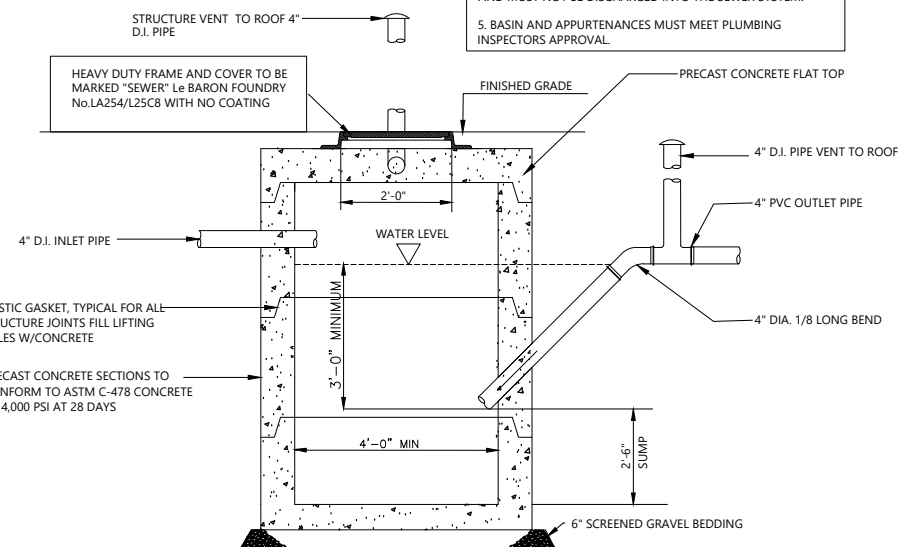
TYPICAL WATER SERVICE
NOT TO SCALE

SEWER MANHOLE NOTES:
ALL SEWER MANHOLES SHALL BE PRECAST CONCRETE COMPONENTS ONLY.
PRECAST CONCRETE MANHOLE SECTIONS SHALL BE SUPPLIED BY A N.P.C.A. CERTIFIED PLANT ONLY.
4'-0" INSIDE DIAMETER MANHOLES SHALL BE LIMITED TO 10 FEET IN DEPTH. LARGER DIAMETER MANHOLES ARE REQUIRED FOR INCREASED DEPTHS.
BRICK FOR INVERT CONSTRUCTION AND ADJUSTING CASTINGS SHALL BE ASTM C32-13 SEWER GRADE SM



NOTE:
SEWER PIPE CONNECTIONS MAY BE COMPRESSION TYPE CAST INTO THE PRECAST BASE OR SECTIONS BY THE MANUFACTURER IF AVAILABLE.
FINAL CONNECTION OF ALL PIPES SHALL BE WATERTIGHT.

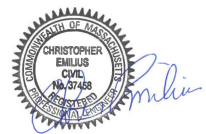
SEWER MANHOLE DETAIL
NOT TO SCALE



OIL/GASOLINE TRAP NOTES:

1. ALL PIPE BELOW FLOOR AND THROUGH BUILDING IS DUCTILE IRON NO-HUB WITH STAINLESS STEEL BAND CLAMPS.
2. USE PRECAST CONCRETE SECTIONS ONLY.
3. BASIN IS TO BE FILLED WITH CLEAN WATER BEFORE USING AND AFTER BEING EMPTIED FOR PERIODIC CLEANING.
4. ALL OIL AND GASOLINE MUST BE REMOVED BEFORE CLEANING AND MUST NOT BE DISCHARGED INTO THE SEWER SYSTEM.
5. BASIN AND APPURTENANCES MUST MEET PLUMBING INSPECTORS APPROVAL.

OIL/GASOLINE SEPARATOR
NOT TO SCALE



CONSTRUCTION DETAILS

LOCATED IN
140 LYNNWAY

REVERE, MA

PREPARED FOR
WINTER STREET ARCHITECTS

DATE: 5-23-2022

SCALE: 1" = 20'

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REVISIONS	NO.	DATE	DESCRIPTION	BY

CHECKED BY: CE
DRAWN BY: CG

PROJECT 19954B

C-08