

# MAIN STREET SIDEWALK & CULVERT

FOR

## THE TOWN OF ACTON

### ALONG THE FRONTAGES OF 820 & 821 MAIN STREET

### ACTON, MASSACHUSETTS

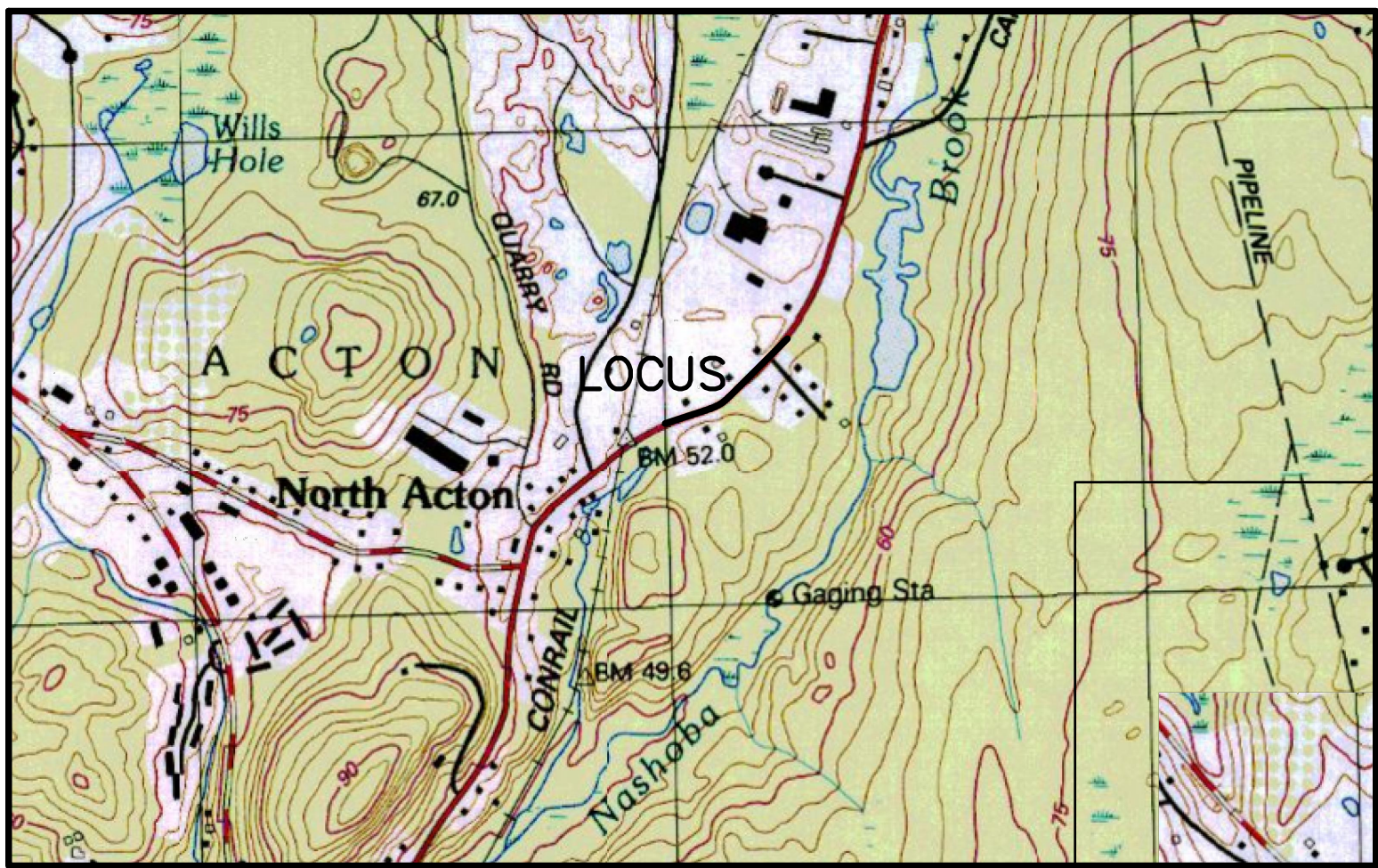
APRIL 4, 2025

REVISED: MAY 13, 2025  
REVISED: MAY 29, 2025

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SHEET 1	TITLE SHEET
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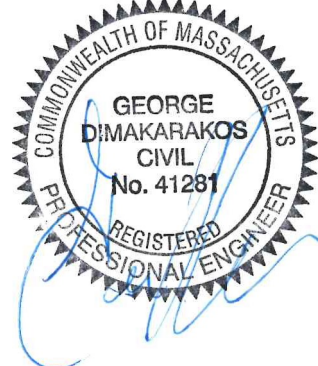
LOCUS PLAN  
SCALE: 1"=200'



LOCUS MAP  
SCALE: 1"=1200'



**SURVEYOR/ENGINEER**  
STAMSKI AND McNARY, INC.  
1000 MAIN STREET  
ACTON, MA 01720



**RECORD OWNER**  
THE TOWN OF ACTON  
472 MAIN STREET  
ACTON, MA 01720

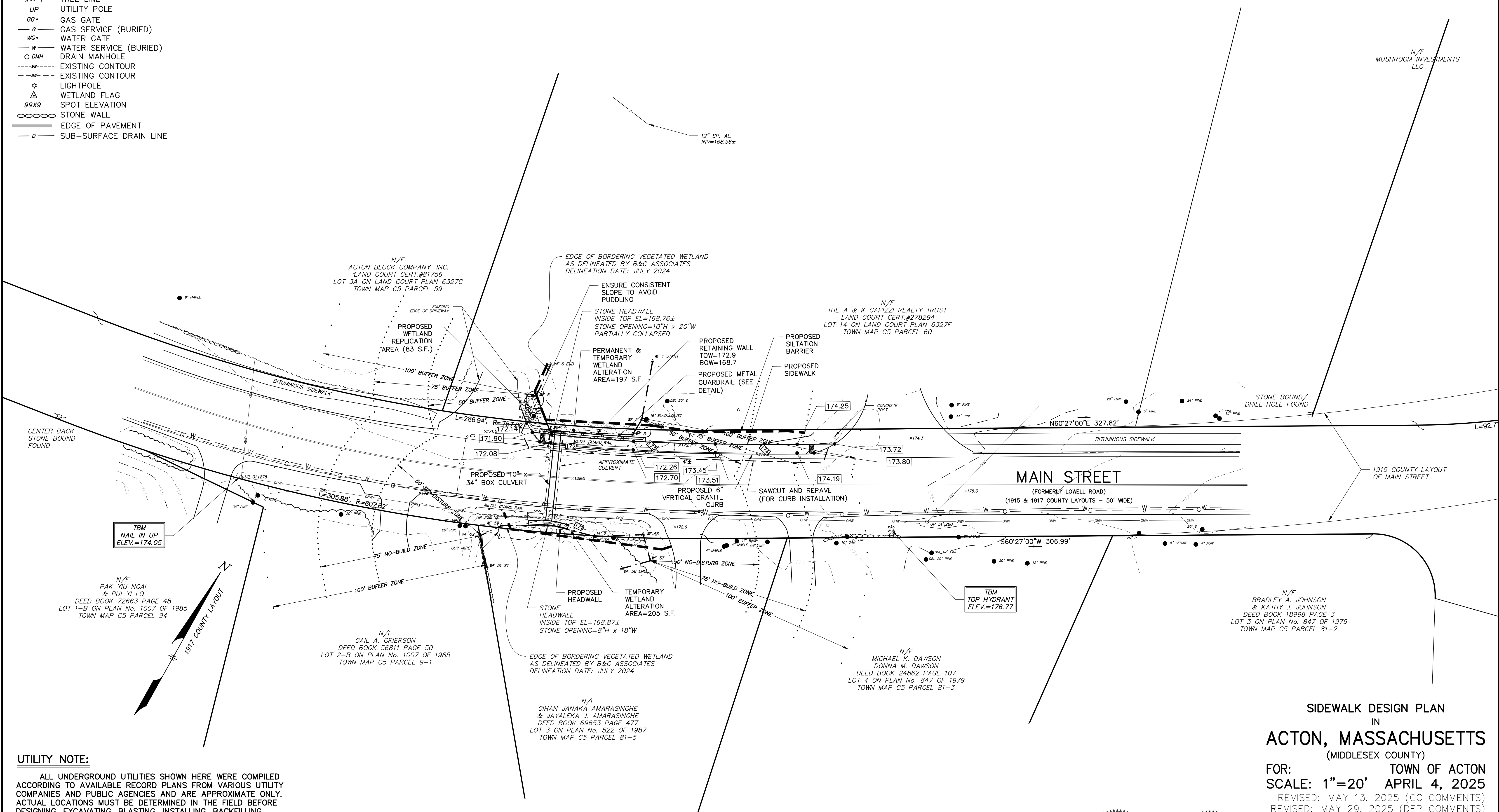
**DATUM**  
N.A.V.D. OF 1988



**LEGEND:**

N/F NOW OR FORMERLY  
OVERHEAD WIRES  
TREE  
TREE LINE  
UTILITY POLE  
GAS GATE  
GAS SERVICE (BURIED)  
WATER GATE  
WATER SERVICE (BURIED)  
DRAIN MANHOLE  
EXISTING CONTOUR  
EXISTING CONTOUR  
LIGHTPOLE  
WETLAND FLAG  
SPOT ELEVATION  
STONE WALL  
EDGE OF PAVEMENT  
SUB-SURFACE DRAIN LINE

**DATUM**  
NAVD OF 1988



**UTILITY NOTE:**

ALL UNDERGROUND UTILITIES SHOWN HERE WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS FROM VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE DESIGNING, EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE CHAPTER 370, ACTS OF 1963 MASS. WE ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE PLANNING FUTURE CONNECTIONS THE APPROPRIATE PUBLIC UTILITY ENGINEERING DEPARTMENT MUST BE CONSULTED. DIG SAFE TELEPHONE No. 1-888-344-7233.

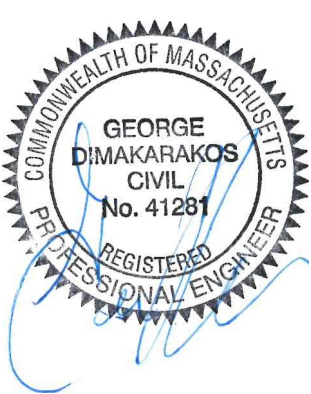
SIDWALK DESIGN PLAN  
IN  
**ACTON, MASSACHUSETTS**  
(MIDDLESEX COUNTY)

FOR: TOWN OF ACTON  
SCALE: 1"=20' APRIL 4, 2025  
REVISED: MAY 13, 2025 (CC COMMENTS)  
REVISED: MAY 29, 2025 (DEP COMMENTS)

**STAMSKI AND MCNARY, INC.**  
1000 MAIN STREET ACTON, MASSACHUSETTS  
ENGINEERING - PLANNING - SURVEYING

0 10 20 40 60 80 FT

(7609.WPP.B.dwg) MAIN STREET SM-7609  
(SHEET 2 OF 3)





EROSION AND SEDIMENTATION CONTROL NOTES

1. THE LIMIT OF WORK LINE SHALL BE CLEARLY MARKED IN THE FIELD BY SURVEY PRIOR TO CONSTRUCTION WITHIN DESIGNATED AREA. LIMIT OF WORK LINE SHALL NOT EXCEED THE LINE SHOWN.
2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED FOR EACH PHASE PRIOR TO ANY CONSTRUCTION ON THE SITE. CONTRACTOR IS ENCOURAGED TO USE "FILTERMITT" IN LIEU OF HAYBALE/SILTATION BARRIER IF ACCEPTABLE TO THE TOWN OF ACTON CONSERVATION COMMISSION.
3. DURING CONSTRUCTION, ADEQUATE PROTECTIVE MEASURES SHALL BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACE OF FILLS.
4. LAND SHALL BE DISTURBED IN INCORMENTS OF WORKABLE SIZE WHICH CAN BE COMPLETED DURING A SINGLE CONSTRUCTION SEASON. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE COORDINATED WITH THE SEQUENCE OF GRADING AND CONSTRUCTION OPERATIONS. CONTROL MEASURES SUCH AS HYDROSEEDING, BERMS, INTERCEPTOR DITCHES, TERRACES, AND SEDIMENT TRAPS SHALL BE PUT INTO EFFECT PRIOR TO THE COMMENCEMENT OF EACH INCREMENT OF THE DEVELOPMENT/CONSTRUCTION PROCESS.
5. THE CONTRACTOR SHALL INSPECT AND REPAIR ALL EROSION CONTROL DEVICES, WHEN INTENSE RAINFALL IS PREDICTED. THE CONTRACTOR'S REPRESENTATIVE SHALL INSPECT THE CONSTRUCTION SITE AT LEAST EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 0.5 INCHES OR MORE. AREAS WITH SITES THAT HAVE BEEN FINALLY "STABILIZED" MUST BE INSPECTED AT LEAST ONCE A MONTH.
6. STOCK PILES SHALL BE SET BACK A MINIMUM OF 5 FEET FROM THE EDGE OF PAVEMENT. ALL STOCK PILES SHALL BE CONTAINED WITH SILT FENCES OR HAYBALES TO PREVENT EROSION FROM ENTERING THE STREET DRAINAGE. IF NOT BEING USED WITHIN 21 DAYS, SOIL STOCK PILES SHALL BE COVERED WITH TEMPORARY VEGETATION OR FASTENED WITH TARPULIN SHEETS. STOCKPILES SHALL AVOID ALL SOIL ABSORPTION AREAS.
7. THE CONTRACTOR IS REQUIRED TO CLEAN UP ANY SAND, DIRT, OR DEBRIS WHICH ERODES FROM THE SITE ONTO ANY PUBLIC STREET OR PRIVATE PROPERTY, AND TO REMOVE SILT OR DEBRIS THAT ENTERS ANY EXISTING DRAINAGE SYSTEM INCLUDING CATCH BASIN SUMPS, PIPE LINES, MANHOLES AND DITCHES.
8. ALL CUT AND FILL SLOPES SHALL BE IMMEDIATELY COVERED WITH 6" LOAM AND SEED DURING THE GROWING SEASON (APRIL 1 TO NOVEMBER 1) OR COVERED WITH A HAY MULCH DURING THE NON-GROWING SEASON (NOVEMBER 1 TO APRIL 1). IN AREAS SUBJECT TO THE WETLANDS PROTECTION ACT, THE HAY MULCH AND/OR REQUIRED MEASURES SHALL REMAIN IN PLACE UNTIL PERMANENT VEGETATION IS RE-ESTABLISHED.
9. DISTURBED AREAS WHERE CONSTRUCTION HAS PERMANENTLY OR TEMPORARILY CEASED MUST BE STABILIZED WITHIN 14 DAYS OF THE LAST DISTURBANCE. AREAS WHICH WILL BE REDISTURBED WITHIN 21 DAYS DO NOT HAVE TO BE STABILIZED.
10. ADDITIONAL EROSION CONTROL MEASURES SHALL BE STOCK-PILED ON-SITE, INCLUDING BUT NOT LIMITED TO CRUSHED STONE.
11. THE EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL ALL TRIBUTARY SURFACES ARE STABILIZED.

GENERAL NOTES

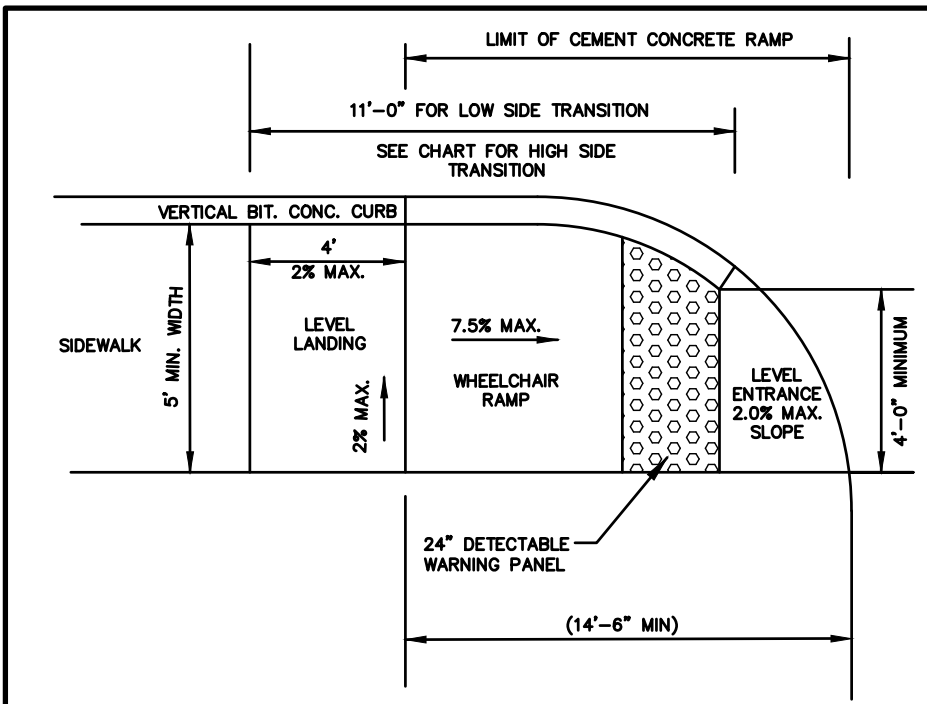
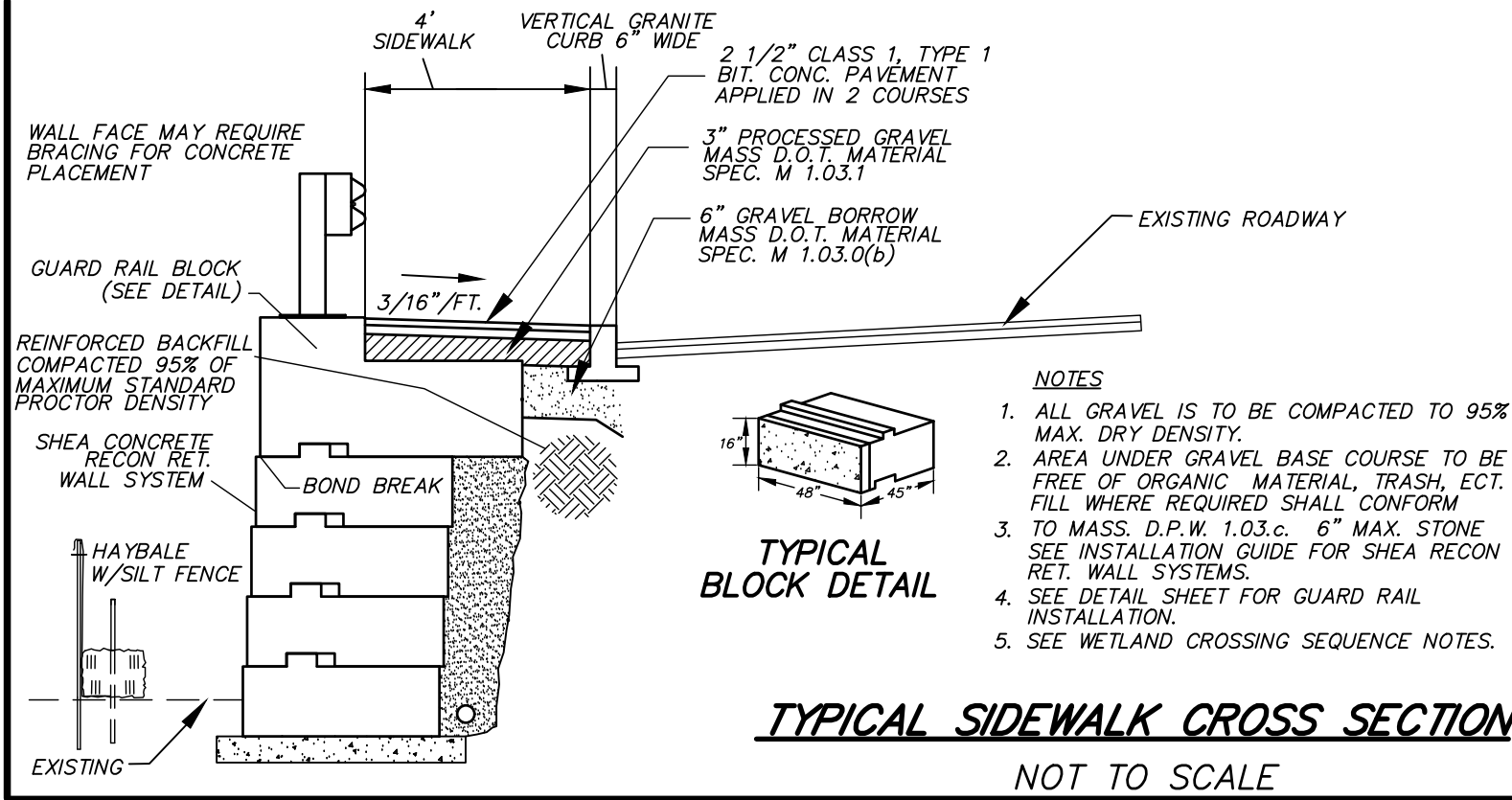
1. ALL UNDERGROUND UTILITIES SHOWN HEREON WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS FROM VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE CHAPTER 370, ACTS OF 1963 MASS. WE ASSUME NO RESPONSIBILITY FOR DAMAGE INCURRED AS A RESULT OF UTILITIES OMITTED OR INACURATELY SHOWN. BEFORE PLANNING FUTURE CONNECTIONS, THE APPROPRIATE PUBLIC UTILITY ENGINEERING DEPARTMENT MUST BE CONSULTED. DIG-SAFE TELE. NO. (888) 344-7233.
2. UNLESS OTHERWISE SPECIFIED ON THESE PLANS, ALL CONSTRUCTION METHODS AND MATERIALS SHALL COMPLY WITH SPECIFICATIONS OUTLINED IN THE ACTON ZONING BYLAW AND THE ACTON SUBDIVISION RULES AND REGULATIONS.
3. ALL LIMITS OF WORK SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION OR SITE CLEARING.
4. ALL STUMPS AND OTHER CONSTRUCTION DEBRIS SHALL BE PROPERLY REMOVED ANY FILL MATERIAL USED SHALL BE FREE OF HAZARDOUS MATERIALS OR WASTE.
5. TRANSPORTATION OF FILL, EARTH, OR CONSTRUCTION DEBRIS TO OR FROM THE SITE SHALL BE RESTRICTED TO DAYTIME HOURS (9 AM TO 4 PM) MONDAY THROUGH FRIDAY.
6. ANY FILL MATERIAL USED SHALL BE FREE OF HAZARDOUS MATERIALS OR WASTE.
7. THE CONTRACTOR IS RESPONSIBLE FOR CLEAN UP OF ANY SAND, DIRT OR DEBRIS WHICH ERODES FROM THE SITE ONTO MAIN STREET AND TO REMOVE SILT OR DEBRIS THAT ENTERS ANY EXISTING DRAINAGE SYSTEM INCLUDING, BUT NOT LIMITED TO, CATCH BASIN SUMPS, PIPE LINES, MANHOLES, AND DITCHES IMMEDIATELY UPON DISCOVERY.

PROCEDURE FOR CONSTRUCTION OF WETLAND REPLICATION AREA

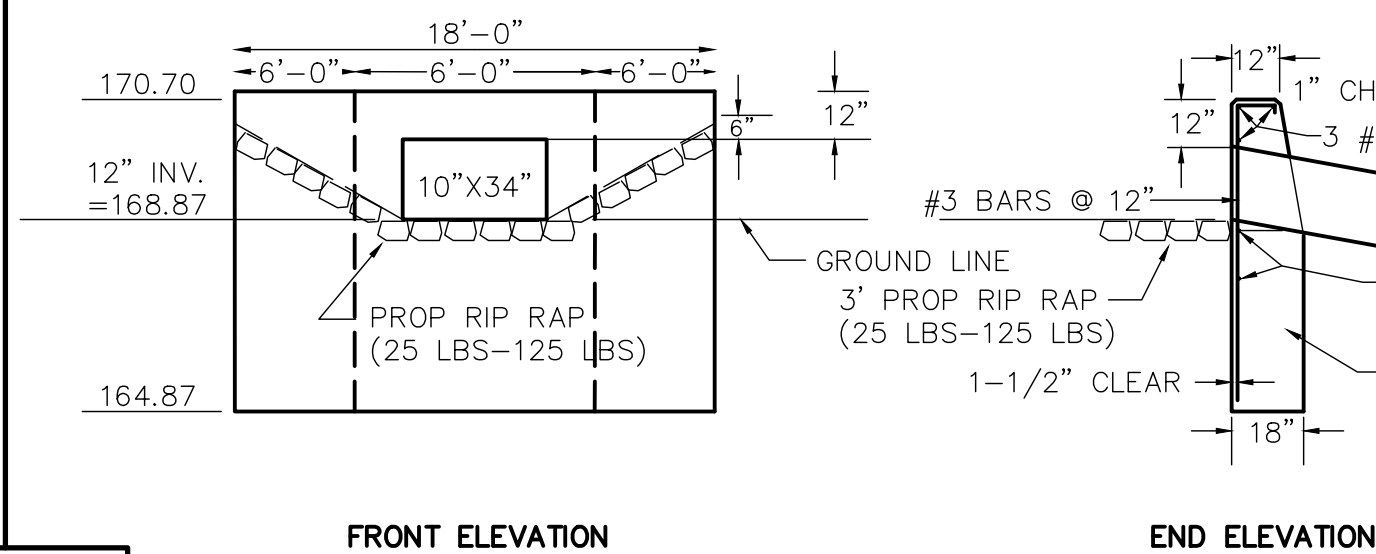
THE WETLAND IMPACT AREA HAS BEEN BROKEN DOWN BETWEEN THE PERMANENT IMPACTS FROM THE PROPOSED RETAINING WALL (5 SQUARE FEET) AS WELL AS TEMPORARY IMPACTS DURING CONSTRUCTION (407 SQUARE FEET). ALL AREAS OF TEMPORARY WETLAND IMPACTS WILL BE RESTORED. 83 SQUARE FEET OF WETLAND RESOURCE REPLICATION IS PROPOSED TO OFFSET THE PERMANENT IMPACTS.

1. THE CONSERVATION ADMINISTRATOR SHALL BE NOTIFIED AT LEAST 72 HOURS (THREE FULL BUSINESS DAYS) PRIOR TO THE START OF THIS TASK.
2. THIS TASK SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A QUALIFIED WETLAND SCIENTIST.
3. CHECK THAT THE WETLAND FLAGS ARE STILL IN PLACE SO THE WETLAND BOUNDARY CAN BE CLEARLY IDENTIFIED IN THE FIELD.
4. PRIOR TO EARTHMOVING ACTIVITIES, AN EROSION CONTROL BARRIER OF 12" DIAMETER FILTERMITT ONLY SHALL BE INSTALLED EXACTLY ALONG THE WETLAND BOUNDARY AT THE DOWNGRAIENT EDGE OF THE WETLAND REPLICATION AREA.
5. CAREFULLY CLEAR AND GRUB THE WETLAND REPLICATION AREA TAKING CARE TO PROTECT THE ROOTS OF ANY LARGER NEARBY TREES.
6. EXCAVATE UNDER THE DIRECT SUPERVISION OF THE QUALIFIED WETLAND SCIENTIST TO APPROXIMATELY 12" BELOW THE EXISTING GRADE OF THE ADJACENT WETLAND. GRADE THE SIDE SLOPES TO CREATE THE VEGETATED BUFFER ZONE AREA; SIDE SLOPE GRADES SHALL NOT EXCEED A 3:1 SLOPE. MAKE SURE THE SUBSOILS ARE NOT COMPACTED BY THE EXCAVATION OPERATIONS.
7. BRING THE WETLAND REPLICATION AREA TO THE PROPOSED FINAL GRADE WITH 8 TO 12" OF WETLAND SUBSTRATE (I.E., A 2:1 MIXTURE OF HIGH QUALITY LOAMY TOP SOIL AND DECOMPOSED LEAF COMPOST; ORGANIC CONTENT OF 12 TO 20%). BRING THE SIDE SLOPES TO FINAL GRADE WITH A 6 TO 8" LAYER OF ROUGHLY GRADED HIGH QUALITY LOAMY TOP SOIL. ALL EXCAVATING AND GRADING SHALL BE CLOSELY SUPERVISED BY A QUALIFIED WETLAND SCIENTIST. MODIFICATIONS TO PROPOSED EXCAVATION AND GRADING MAY BE MADE IN THE FIELD BY THE SUPERVISING WETLAND SCIENTIST IN RESPONSE TO OBSERVED SUBSURFACE HYDROLOGIC CONDITIONS. THE AREA SHALL BE GRADED TO HAVE A VARIED MICROTOPOGRAPHY AS DIRECTED BY SUPERVISING WETLAND SCIENTIST. AFTER THE GRADING IN THE AREA IS COMPLETED, A 12" DIAMETER FILTERMITT WILL BE INSTALLED AT THE UPGRAIENT EDGE OF THE WETLAND REPLICATION AREA.
8. THE WETLAND REPLICATION AREA AND THE ADJACENT BUFFER AREA SHALL BE PLANTED BASED UPON THE WETLAND REPLICATION PLANTING SCHEMATIC AND PLANT LIST. THE PLANTS SHALL BE LOCATED AND SPACED AT THE DIRECTION OF THE SUPERVISING WETLAND SCIENTIST. ALL SAPLINGS AND SHRUBS SHALL BE NATIVE; CULTIVARS AND VARIETALS ARE NOT ACCEPTABLE. SUBSTITUTIONS FOR SPECIES OR SIZE ARE ALLOWED ONLY WITH ADVANCE APPROVAL OF THE CONSERVATION ADMINISTRATOR; NURSERY TAGS MUST BE LEFT ON THE PLANTINGS UNTIL INSPECTED BY THE CONSERVATION ADMINISTRATOR. THE USE OF NEW ENGLAND WET-MIX OR A SIMILAR SEED MIX IS NOT NECESSARY.
9. AFTER PLANTING, THE PLANTS SHALL BE WATERED IN AND MULCHED WITH SALT MARSH HAY. NO STRAW OR HAY SHALL BE USED; ONLY USE SALT MARSH HAY. THE PLANTS SHOULD BE WATERED PERIODICALLY UNTIL ESTABLISHED.
10. LEAF LITTER AND FINE WOODY DEBRIS RESERVED FROM OTHER AREAS OF THE SITE SHALL BE SPREAD THROUGHOUT THE AREA TO PROVIDE SOME LEVEL OF HABITAT AND EROSION CONTROL. OTHERWISE, THE AREA WILL BE MULCHED WITH A THIN LAYER OF SALT MARSH HAY. NO STRAW OR HAY SHALL BE USED; ONLY USE SALT MARSH HAY.
11. THE EROSION CONTROLS AT THE WETLAND REPLICATION AREA MAY BE REMOVED WHEN DIRECTED TO DO SO BY SUPERVISING WETLAND SCIENTIST WITH CONCURRENCE FROM THE CONSERVATION ADMINISTRATOR.
12. THE SUCCESS OF THE WETLAND REPLICATION AREA AND ADJACENT BUFFER PLANTINGS SHALL BE MONITORED AND EVALUATED ANNUALLY AT THE END OF THE GROWING SEASON FOR TWO YEARS AFTER THE AREA IS ESTABLISHED TO CONFIRM THAT THE AREA IS STABLE, FUNCTIONING AS DESIGNED, AND THAT VEGETATIONAL COVERAGE IS 75% OR GREATER. INVASIVE SPECIES WILL BE DOCUMENTED AND REMOVED IF PRESENT. A REPORT, WITH REPRESENTATIVE PHOTOGRAPHS, SHALL BE PROVIDED TO THE COMMISSION AFTER EACH INSPECTION THAT DETAILS THE CONDITION OF THE AREA AND ANY RECOMMENDATIONS NECESSARY TO BRING OR KEEP THE AREA IN COMPLIANCE WITH THE APPROVED PLANS AND ORDER.

NOTE:  
FINAL GRADES IN REPLICATION AREA MAY BE  
MODIFIED IN FIELD BY WETLAND SPECIALIST

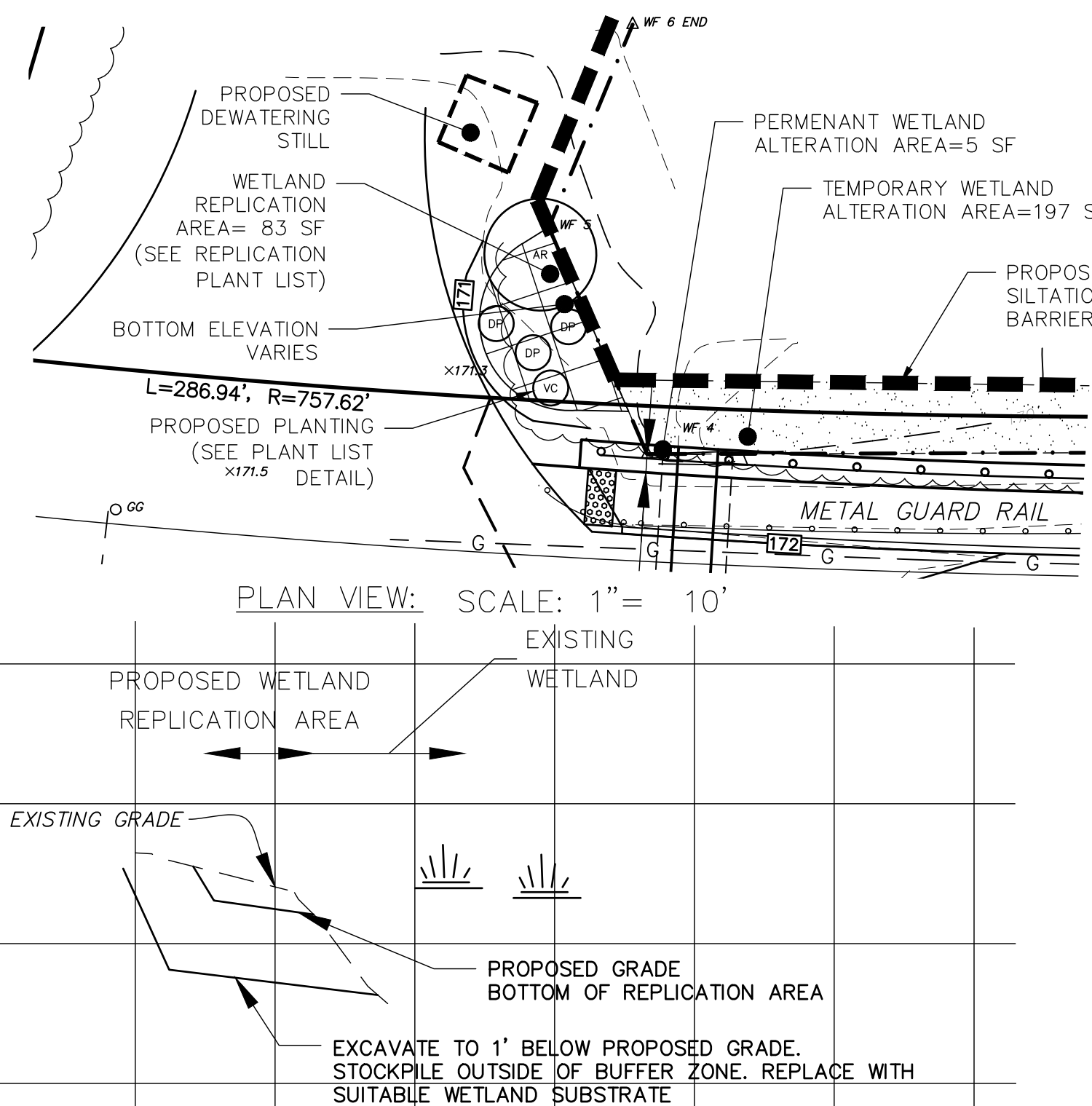


ROADWAY PROFILE GRADE	%	*HIGH SIDE TRANSITION LENGTH
ENGLISH UNITS		
=0%		6'-6"
>0% TO 1%		7'-8"
>1% TO 2%		9'-0"
>2% TO 3%		11'-0"
>3% TO 4%		14'-0"
>4% TO 5%		15'-0" MAX



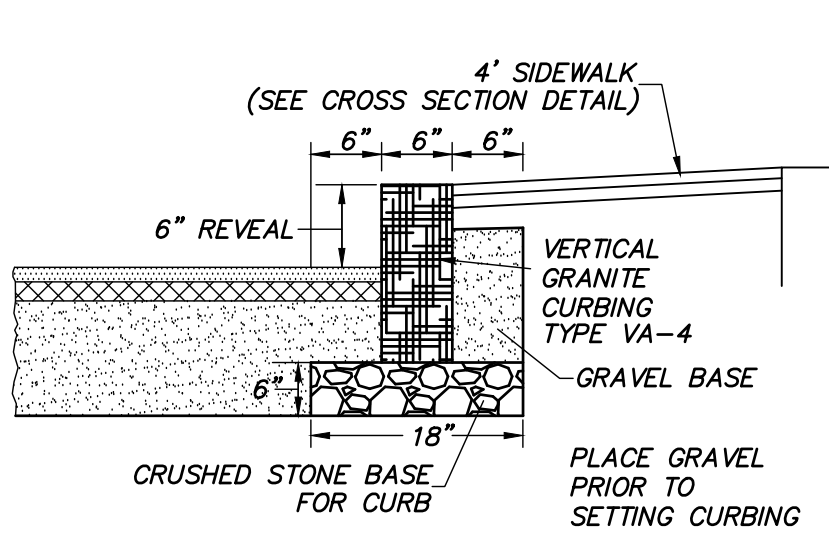
HEADWALL DETAIL

N.T.S.



WETLAND REPLICATION CROSS SECTION A-A

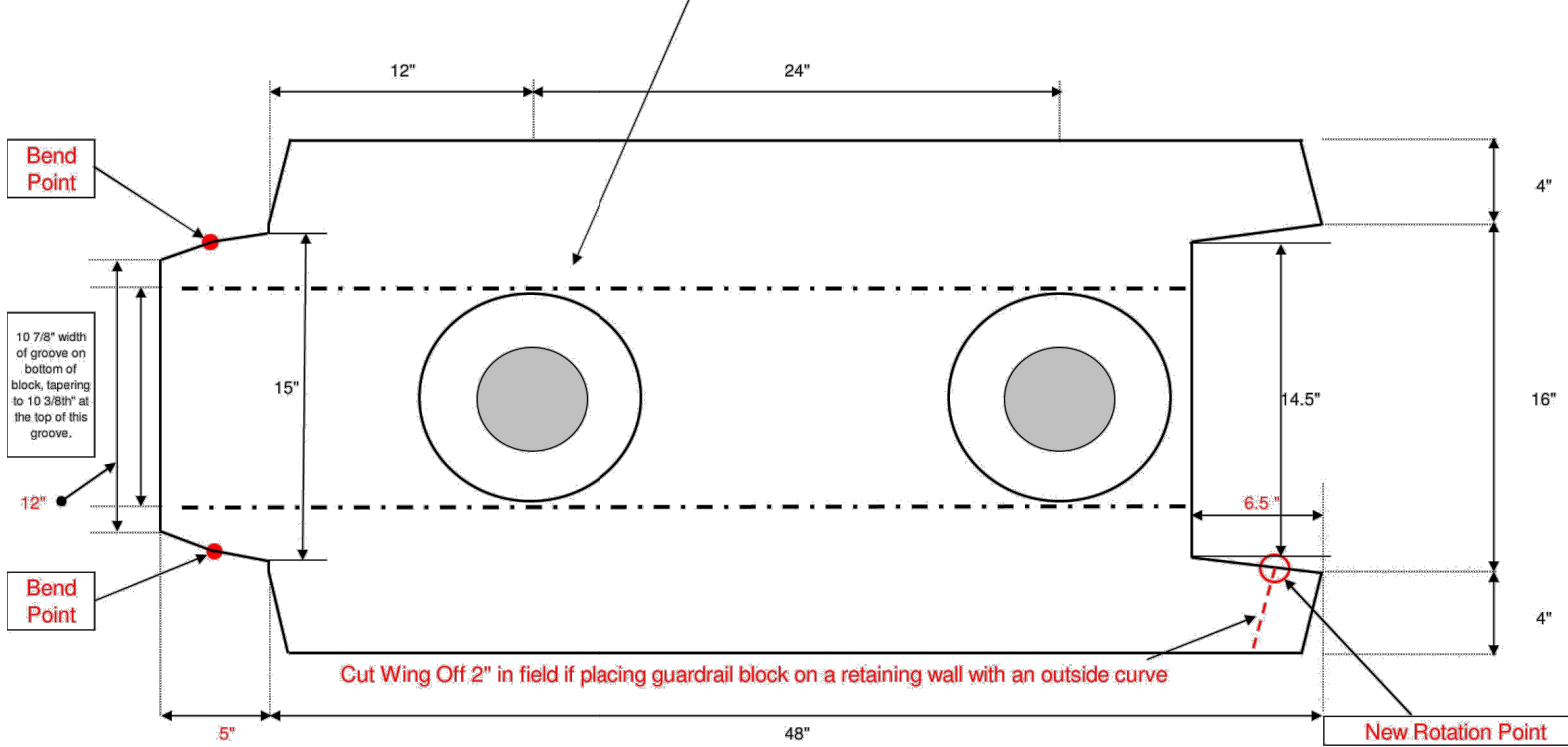
SCALE: 1"= 10' H., 1"= 4' V.



VERTICAL GRANITE CURBING DETAIL

NOT TO SCALE

Top Down View of Guardrail Block



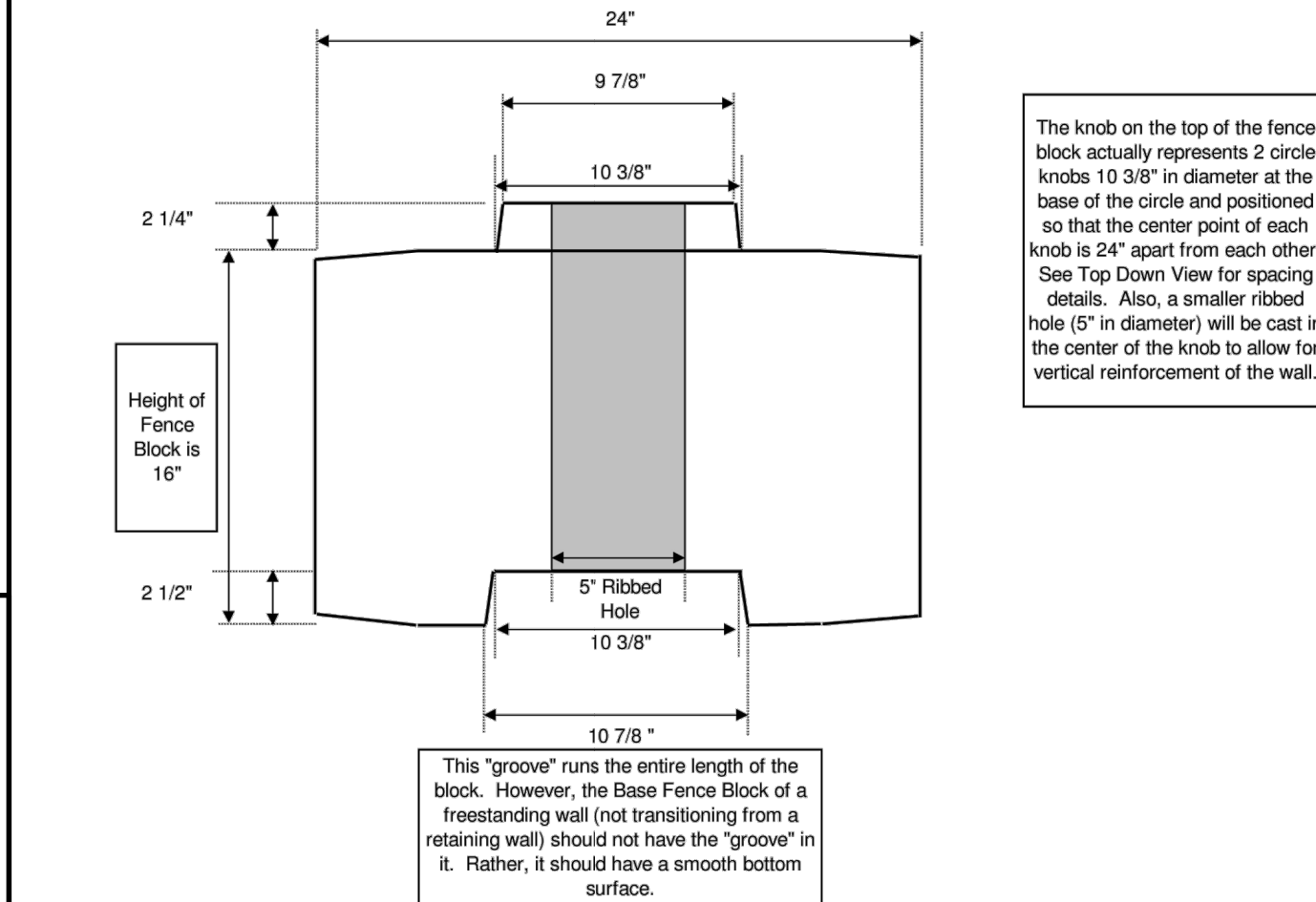
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Design is for internal stability of the Shea wall structure only. External stability, including but not limited to foundation and slope stability is the responsibility of the Owner. The design is based on the assumption that the materials within the retained mass, methods of construction, and quality of materials conform to those specified for the project.

**SHEA**  
CONCRETE PRODUCTS  
Retaining Wall Systems  
DRAWING # 400

GUARDRAIL BLOCK  
TOP DOWN VIEW  
SHEA WALL SYSTEMS, INC  
87 Haverhill Street  
Amesbury, MA 01913  
Phone: 800-686-7432  
Phone: 978-388-1509  
www.sheaconcrete.com

End View of Guardrail Block

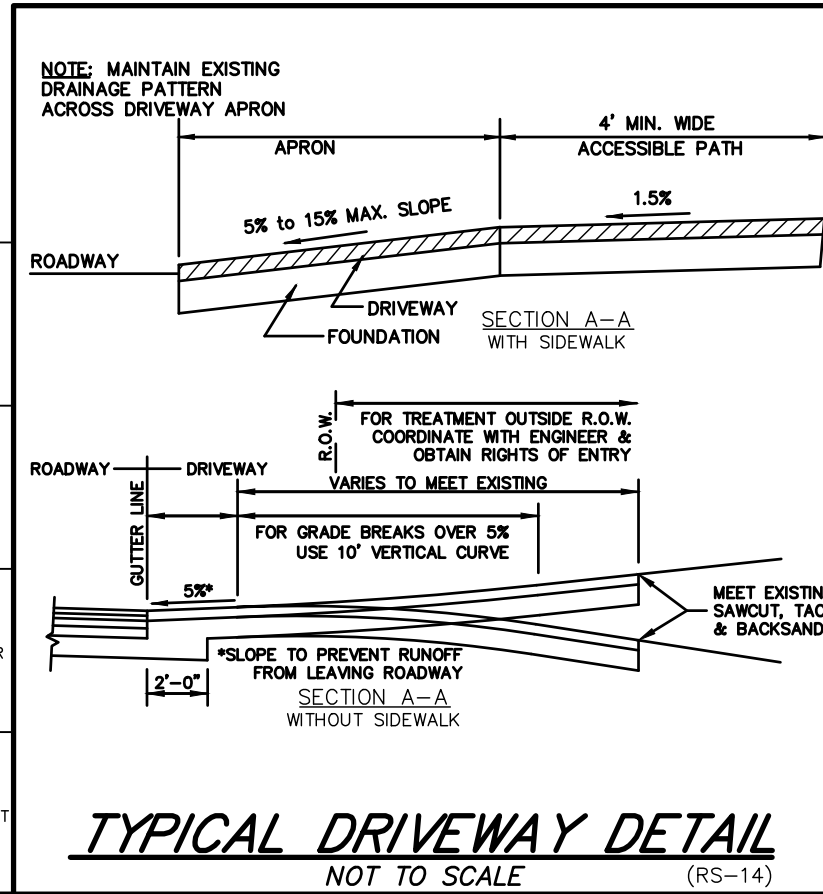


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**SHEA**  
CONCRETE PRODUCTS  
Retaining Wall Systems  
DRAWING # 400b

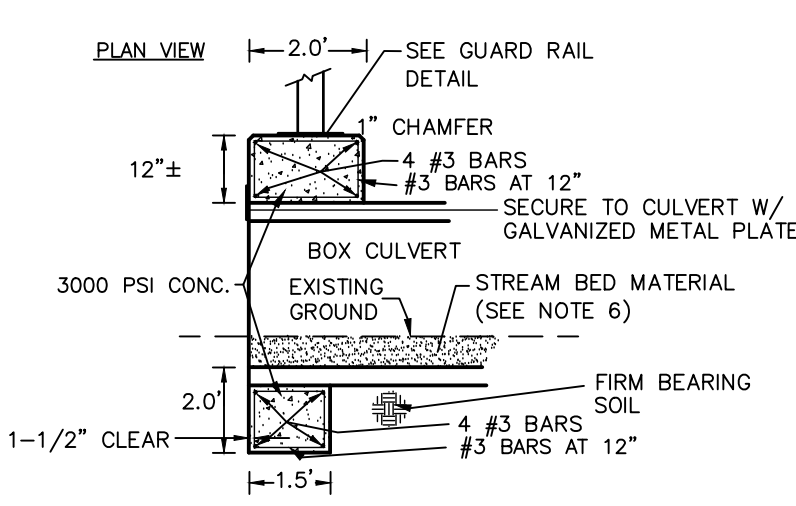
GUARDRAIL BLOCK END VIEW  
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Phone: 800-686-7432  
Phone: 978-388-1509  
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TYPICAL DRIVEWAY DETAIL

NOT TO SCALE (RS-14)

- NOTES:
1. BOX CULVERT AS MANUFACTURED BY CHASE MANUFACTURED BY ROTONDO OR APPROVED PRECAST OR CAST-IN-EQUAL EQUIVALENT.
  2. INSTALLATION OF THE BOX CULVERT IS TO OCCUR WHEN THERE IS LITTLE OR NO FLOW IN STREAM. (JULY 1 TO OCTOBER 1)
  3. IF DEWATERING OF STREAM OR EXCAVATION IS REQUIRED, CONTRACTOR SHALL PUMP TO DEWATERING STILL SITUATED BEYOND EDGE OF WETLAND. 4. SOIL MAY BE PLACED IN CULVERT PRIOR TO INSTALLATION OF SECTIONS.
  5. UPSTREAM AND DOWNSTREAM END SIMILAR CULVERT DIMENSIONS SHALL BE 6'. VERIFIED BY MANUFACTURER FOR H2O LOADING PRIOR TO INSTALLATION.
  6. RESTORE CULVERT BOTTOM WITH MATERIAL OF MIXED GRADATION, WITH SMALLER PARTICLES TO FILL IN VOIDS AND PREVENT SUBSURFACE FLOWS.



BOX CULVERT DETAIL

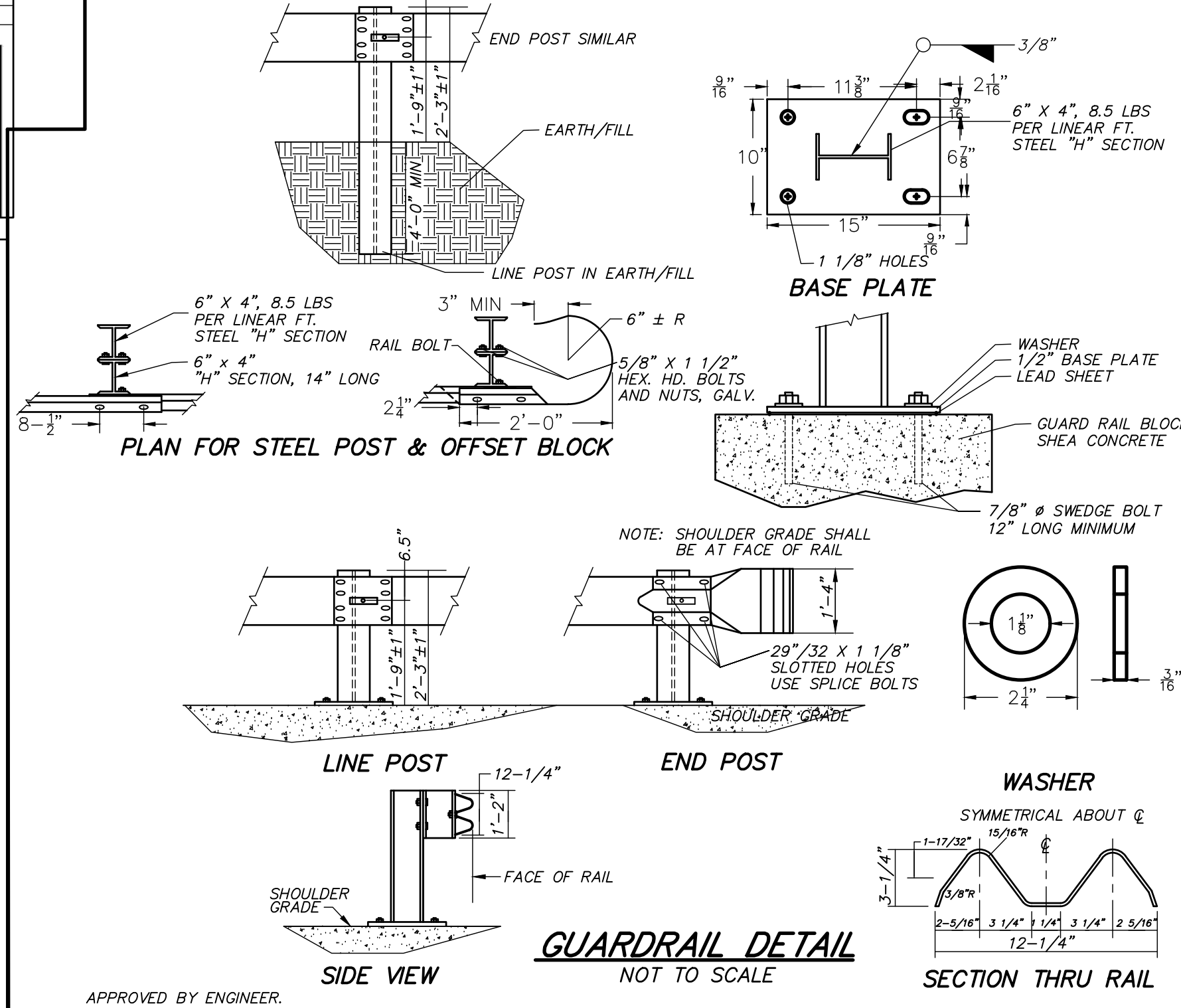
N.T.S.

GENERAL NOTES:

1. SILENT POSTS, OFFSET BLOCKS, ANCHORS, PLATES AND ALL FITTINGS TO BE GALVANIZED.
2. ALL DIMENSIONS SUBJECT TO MANUFACTURER'S TOLERANCES.
3. RAIL PANELS AND END SECTIONS TO BE 12 GAGE STEEL.
4. BACK-UP PLATE TO BE PLACED BEHIND RAIL ELEMENTS AT INTERMEDIATE STEEL POSTS (NON-SPECIFIED POSTS).
5. ALL PARTS SHALL CONFORM TO CURRENT MHD STANDARD SPECIFICATIONS.
6. WHEN GUARDRAIL IS CONSTRUCTED AT UP TO FOUR FEET FROM EDGE OF PAVEMENT, THE GUARDRAIL HEIGHT WILL BE SET FROM THE GRADE AT THE EDGE OF PAVEMENT.
7. WHEN GUARDRAIL IS CONSTRUCTED MORE THAN FOUR FEET FROM THE EDGE OF PAVEMENT, THE GUARDRAIL WILL BE SET FROM THE GRADE AT THE FACE OF RAIL.

CONCRETE ATTACHMENT NOTES:

1. SWEDGE BOLTS, NUTS AND WASHERS ARE TO BE GALVANIZED.
2. HOLES FOR SWEDGE BOLTS SHALL BE 10" DEEP. SWEDGE BOLTS TO BE SET IN EPOXY RESIN, AS



SIDEWALK DESIGN PLAN

IN

ACTON, MASSACHUSETTS

(MIDDLESEX COUNTY)

FOR: TOWN OF ACTON

SCALE: 1"=20' APRIL 4, 2025

REVISED: MAY 13, 2025 (CC COMMENTS)

REVISED: MAY 29, 2025 (DEP COMMENTS)

STAMSKI AND MCNARY, INC.

1000 MAIN STREET ACTON, MASSACHUSETTS

ENGINEERING - PLANNING - SURVEYING

0 10 20 40 60 80 FT

(7609.WPP.B.dwg) MAIN STREET SM-7609

(SHEET 3 OF 3)