

EVERSOURCE

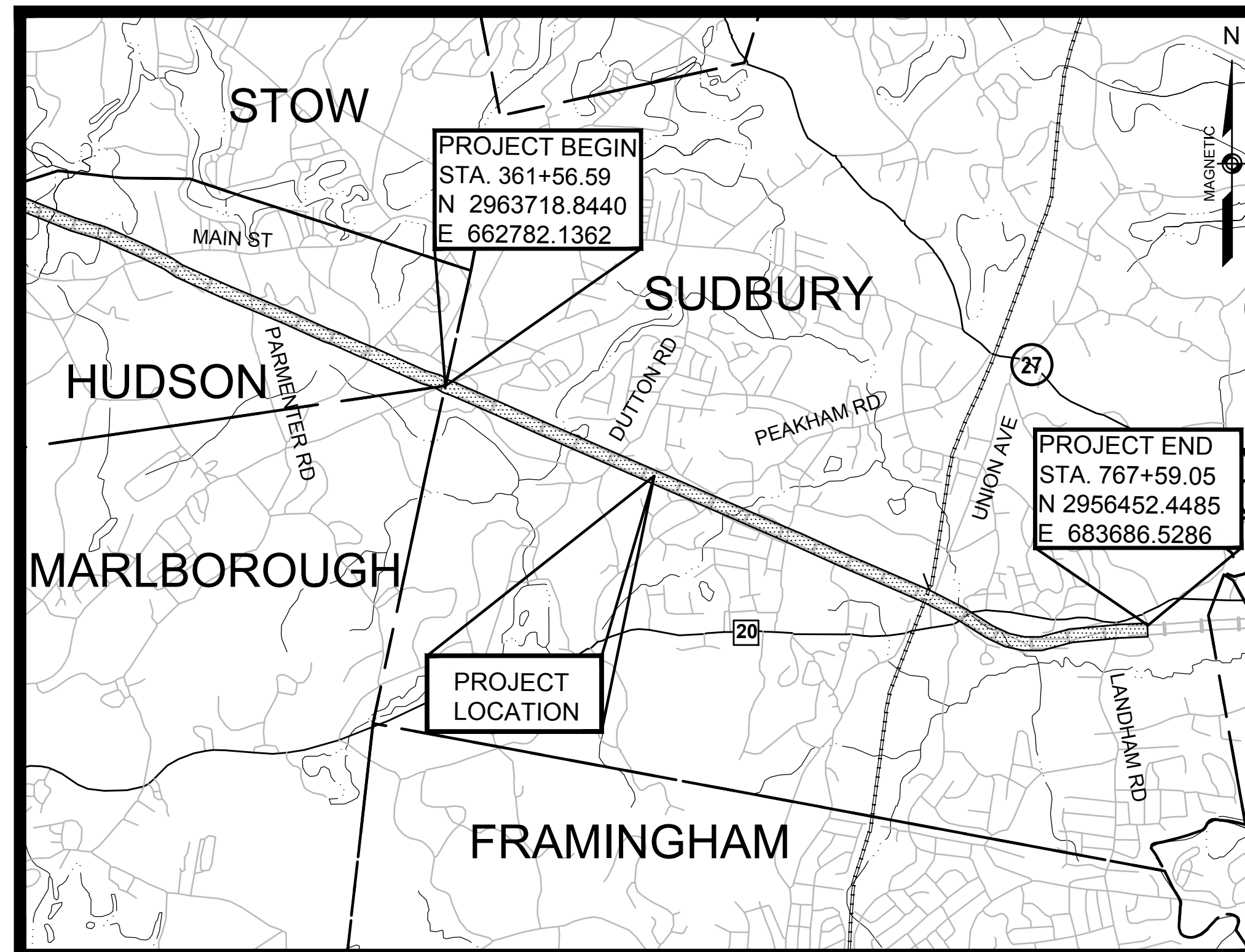
SUDBURY-HUDSON

TRANSMISSION RELIABILITY PROJECT

SUDBURY STORMWATER PERMIT PLANS

INDEX

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THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

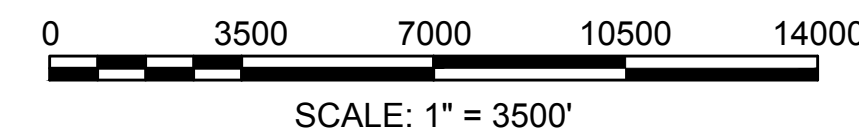

Margot E. Schoenfelder 10/21/2020
ENGINEER DATE


Mark A. Costa 10/21/2020
ENGINEER DATE
SHEETS 167-168


Shanta B. Keller 10/21/20
ENGINEER DATE
SHEETS 188-200



VANASSE HANGEN BRUSTLIN, INC.
WATERTOWN, MASSACHUSETTS



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| TITLE SHEET & INDEX | | | | |
| PLAN 1 OF 348 | | | | |
| SCALE: unless noted 1"=3500' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | | REV. | | |

| GENERAL SYMBOLS | | GENERAL SYMBOLS (cont.) | | PAVEMENT MARKINGS SYMBOLS | | GENERAL NOTES: | |
|-----------------|----------|-------------------------|----------|---------------------------|----------|----------------|--|
| EXISTING | PROPOSED | EXISTING | PROPOSED | EXISTING | PROPOSED | EXISTING | PROPOSED |
| | | | | | | 1. | THE PROPERTY LINES SHOWN ON THIS PLAN OF THE PARCELS AT 44 FOREST AVENUE IN HUDSON, 163 BOSTON POST ROAD IN SUDBURY AND THE FORMER RAILROAD RIGHT-OF-WAY ARE BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY VHB, INC. IN 2015 AND FROM DEEDS AND PLANS OF RECORD. |
| | | | | | | 2. | THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE DEVELOPED FROM A COMBINED EFFORT OF AERIAL PHOTOGRAMMETRIC MAPPING BY EASTERN TOPOGRAPHICS, INC., BASED ON AERIAL PHOTOGRAPHS TAKEN ON FEBRUARY 22, 2013, AND AUGMENTED BY AN ON-THE-GROUND SURVEY PERFORMED BY VHB DURING 2015 AND 2017. |
| | | | | | | 3. | THE HORIZONTAL CONTROL IS BASED ON THE MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM AND THE NATIONAL GEODETIC SURVEY (NAD83). ALL ELEVATION IS US FEET, REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88). |
| | | | | | | 4. | THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND GRADES IN THE FIELD BEFORE COMMENCING WORK AND PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. |
| | | | | | | 5. | THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS AND INFORMATION OF RECORD. THEY 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 SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. |
| | | | | | | 6. | THE DELINEATED WETLANDS SHOWN ON THIS PLAN WERE FLAGGED BY THE VHB ENVIRONMENTAL DEPARTMENT AND FIELD SURVEYED BY THE VHB SURVEY DEPARTMENT IN SEPTEMBER AND OCTOBER 2017 AND WERE UPDATED IN MAY 2018 (SUDBURY ONLY). |
| | | | | | | 7. | THE APPROXIMATE WETLANDS AND STREAMS, AND THEIR ASSOCIATED BUFFERS AND RIVERFRONT AREAS, WHERE APPLICABLE, WERE TAKEN FROM AVAILABLE MASSGIS DATA. THESE WERE NOT FIELD DELINEATED OR FIELD VERIFIED. |
| | | | | | | 8. | THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES THAT MAY CONFLICT WITH PROPOSED TRANSMISSION LINE. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. |
| | | | | | | 9. | WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT. |
| | | | | | | 10. | THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE AND SEWER STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK. |
| | | | | | | 11. | THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES. |
| | | | | | | 12. | EXISTING UTILITY POLES WILL BE RELOCATED BY OTHERS IF REQUIRED. |
| | | | | | | 13. | TREES AND SHRUBS WITHIN THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER. |
| | | | | | | 14. | AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER. |
| | | | | | | 15. | THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R). |
| | | | | | | 16. | ALL PROP LOAM AND SEED CALLED OUT ON THE CONSTRUCTION PLANS TO ADHERE TO PLANTING SCHEDULE A PROVIDED ON DETAIL SHEET 161 UNLESS NOTED OTHERWISE. |
| | | | | | | 17. | JOINTS BETWEEN NEW ASPHALT CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACKSANDS. |
| | | | | | | 18. | EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS INDICATED OTHERWISE ON THE DRAWINGS. |
| | | | | | | 19. | IF SUITABLE, ALL EXISTING GRANITE CURB & EDGING SHALL BE RE-USED IN THE PROPOSED WORK, EXCEPT CURVED STONES OF A DIFFERENT RADIUS THAN PROPOSED CURB. |
| | | | | | | 20. | ALL PROPOSED HOT MIX ASPHALT CURB SHALL BE MASSDOT TYPE 2. |
| | | | | | | 21. | ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED. |
| | | | | | | 22. | ALL PROPOSED BOUNDS SHALL BE PLACED BY A LICENSED PROFESSIONAL SURVEYOR. THE CONTRACTOR SHALL EXERCISE DUE CARE WHEN WORKING AROUND ALL PROPERTY BOUNDS WHICH ARE TO REMAIN. SHOULD ANY DAMAGE TO A BOUND RESULT FROM THE ACTIONS OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE THE BOUND REPLACED AND/OR REALIGNED BY A LICENSED PROFESSIONAL SURVEYOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST. |
| | | | | | | 23. | DISPOSAL OF ALL SURPLUS MATERIAL SHALL BE AS APPROVED BY THE ENGINEER AND OWNER AND IN ACCORDANCE WITH ALL PERMITS AND LAWS REGULATING SOIL DISPOSAL. |
| | | | | | | 24. | LATERAL DRAIN PIPES SHALL BE INSTALLED WITH A PITCH OF 0.01 FOOT PER FOOT (MINIMUM) UNLESS NOTED OTHERWISE ON THE PLANS. |
| | | | | | | 25. | WHERE DEWATERING IS REQUIRED, CONTRACTOR SHALL TREAT WATER WITH DEWATERING BASIN OR DEWATERING FILTER BAGS BASED ON INPUT FROM LOCAL CONSERVATION COMMISSIONS. |
| | | | | | | 26. | SYNCPATED SILT FENCE TO BE USED AS AN EROSION CONTROL BARRIER WITHIN 450' OF VERNAL POOLS AND PRIORITY HABITAT AREAS. |
| | | | | | | 27. | THE LOCATIONS OF ALL EROSION CONTROL BARRIER SHALL BE ESTABLISHED BY SURVEY-GRADE EQUIPMENT AND ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS. |
| | | | | | | 28. | ALL HISTORIC RAILROAD FEATURES LOCATED WITHIN THE LIMIT OF WORK AND OUTSIDE THE LIMITS OF THE 14' GRAVEL SUB-BASE SHALL BE RETAINED AND PROTECTED WITH CONSTRUCTION FENCING AND SIGNAGE THAT SHALL BE INSTALLED IN CONSULTATION WITH APPROVED BY THE CULTURAL RESOURCES CONSULTANT GIVEN 24 HOURS ADVANCED NOTICE BEFORE ANY CONSTRUCTION WITHIN THE IMMEDIATE VICINITY OF THE FEATURE OCCURS. IF IT IS NOT POSSIBLE TO RETAIN THE FEATURE, IT SHALL BE CAREFULLY REMOVED AND RESET AS CLOSE AS POSSIBLE TO THE ORIGINAL LOCATION. THE REMOVAL AND RESETTING OF ANY HISTORIC RAILROAD FEATURE SHALL ONLY BE DONE AFTER CONSULTATION WITH THE CULTURAL RESOURCES CONSULTANT, WHO SHALL SPECIFY THE METHODOLOGY USED TO REMOVE, PRESERVE, AND RESET THE FEATURE. |
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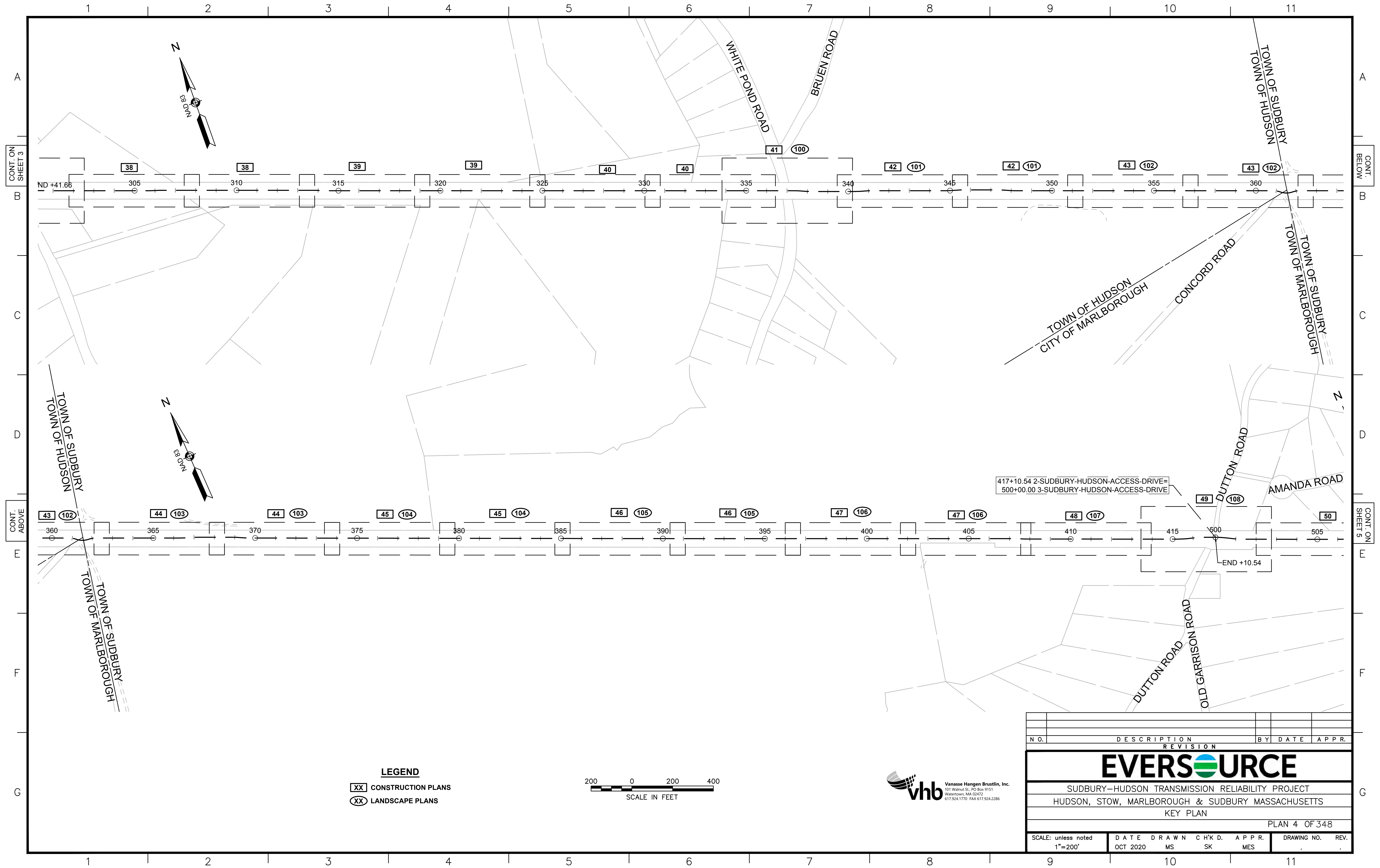
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SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
LEGEND, ABBREVIATIONS, & GENERAL NOTES

PLAN 2 OF 348

| | | | | | |
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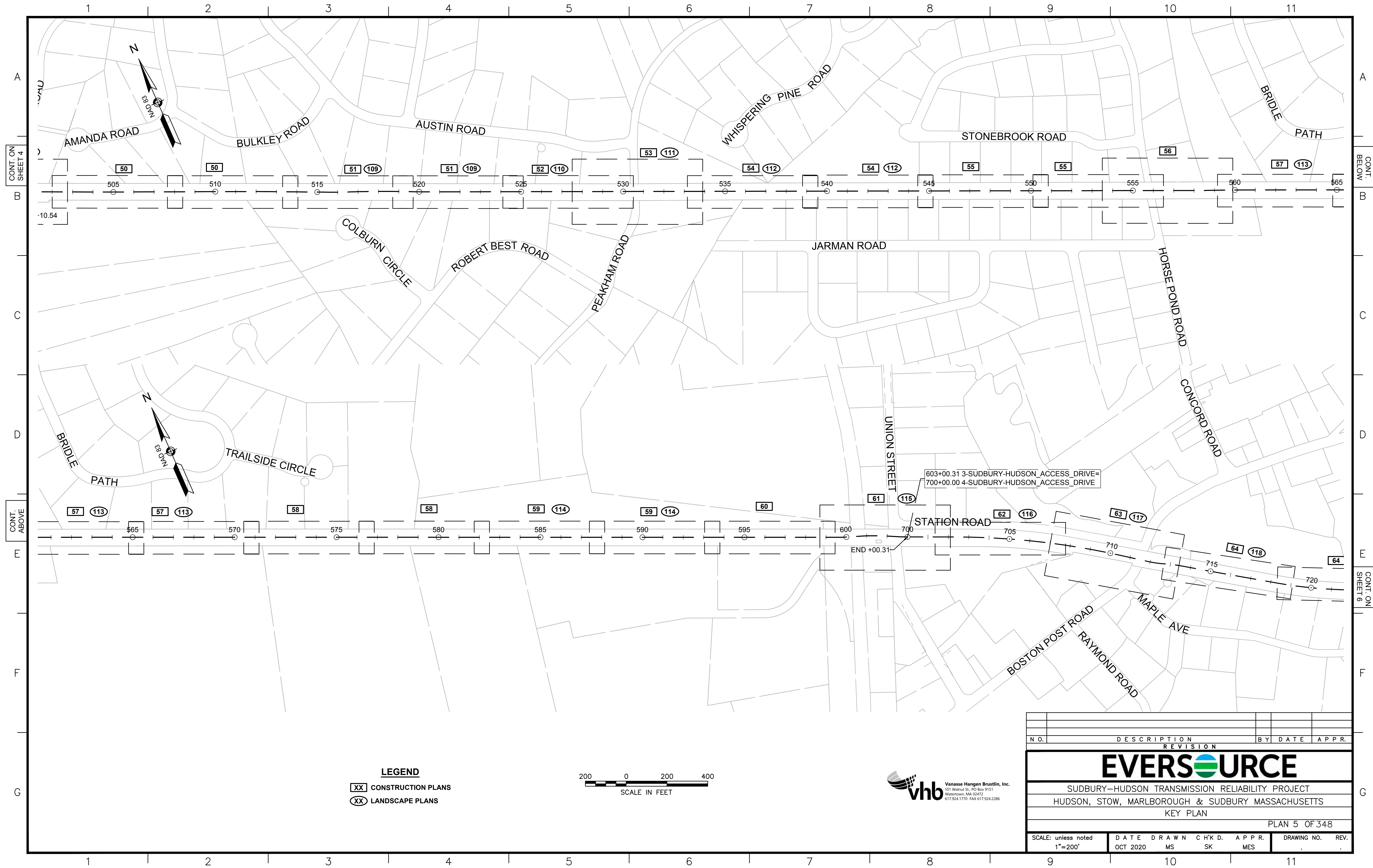
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LEGEND

- XX CONSTRUCTION PLANS
- XX LANDSCAPE PLANS



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| KEY PLAN | | | | |
| PLAN 4 OF 348 | | | | |
| SCALE: unless noted 1"=200' | DATE OCT 2020 | DRAWN MS | C'H'K D. SK | A P P R. MES |
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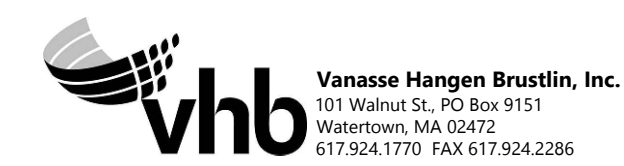
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CONT. ON SHEET 6

LEGEND

- XX CONSTRUCTION PLANS
- XX LANDSCAPE PLANS



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| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| KEY PLAN | | | | |
| PLAN 5 OF 348 | | | | |
| SCALE: unless noted 1"=200' | DATE OCT 2020 | DRAWN MS | C'H'K D. SK | APPR. MES |
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E 683686.5286

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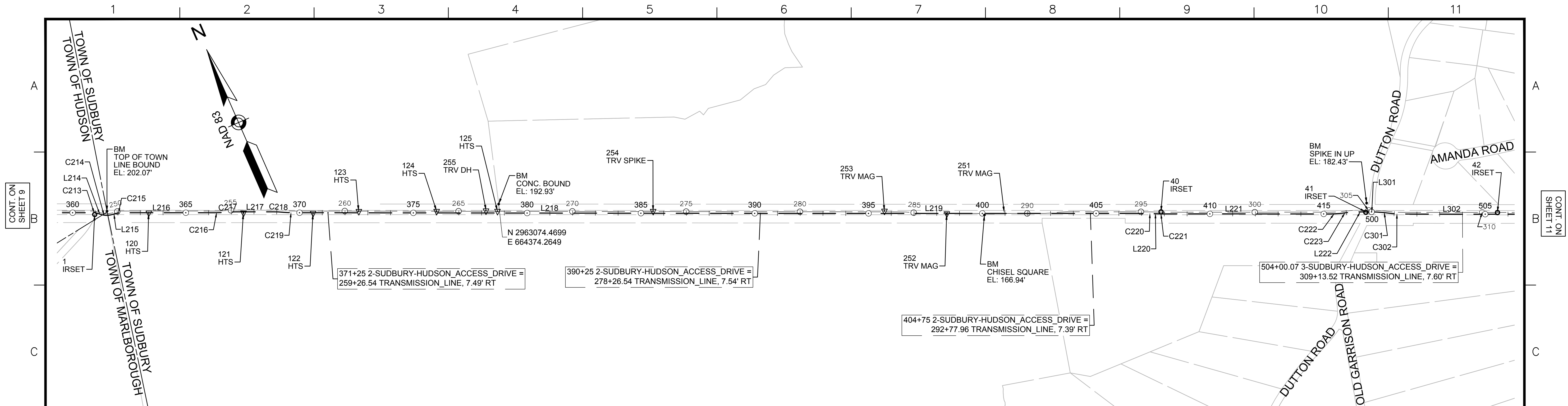
LEGEND

- XX** CONSTRUCTION PLANS
- XX** LANDSCAPE PLANS



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| KEY PLAN | | | | |
| PLAN 6 OF 348 | | | | |
| SCALE: unless noted 1"=200' | DATE OCT 2020 | DRAWN MS | C'H'K D. SK | A P P R. MES |
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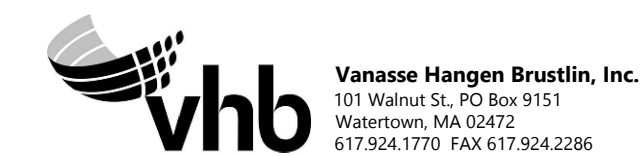


| 2-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA | | | | | | | | |
|--|------------------|-------------|------------|--|----------------------|----------------|-------------|------------|
| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | NORTHING | EASTING |
| C213 | 360+88.26 | 2963756.220 | 662725.416 | R=80.00' Δ=16°41'57" L=23.32' T=11.74' | | 361+11.58 | 2963743.895 | 662745.111 |
| L214 | 361+11.58 | 2963743.895 | 662745.111 | | S49°36'43"E 16.84' | 361+28.41 | 2963732.985 | 662757.935 |
| C214 | 361+28.41 | 2963732.985 | 662757.935 | R=80.00' Δ=32°54'10" L=45.94' T=23.62' | | 361+74.35 | 2963714.601 | 662799.350 |
| L215 | 361+74.35 | 2963714.601 | 662799.350 | | S82°30'53"E 18.74' | 361+93.10 | 2963712.159 | 662817.933 |
| C215 | 361+93.10 | 2963712.159 | 662817.933 | R=80.00' Δ=16°12'13" L=22.62' T=11.39' | | 362+15.72 | 2963706.100 | 662839.653 |
| L216 | 362+15.72 | 2963706.100 | 662839.653 | | S66°18'41"E 417.03' | 366+32.74 | 2963538.553 | 663221.540 |
| C216 | 366+32.74 | 2963538.553 | 663221.540 | R=500.00' Δ=5°07'35" L=44.74' T=22.38' | | 366+77.48 | 2963522.435 | 663263.256 |
| C217 | 366+77.48 | 2963522.435 | 663263.256 | R=500.00' Δ=5°07'35" L=44.74' T=22.38' | | 367+22.22 | 2963506.317 | 663304.972 |
| L217 | 367+22.22 | 2963506.317 | 663304.972 | | S66°18'41"E 162.17' | 368+84.39 | 2963441.162 | 663453.479 |
| C218 | 368+84.39 | 2963441.162 | 663453.479 | R=500.00' Δ=5°03'10" L=44.09' T=22.06' | | 369+28.48 | 2963421.691 | 663493.024 |
| C219 | 369+28.48 | 2963421.691 | 663493.024 | R=500.00' Δ=4°58'12" L=43.37' T=21.70' | | 369+71.85 | 2963402.510 | 663531.908 |
| L218 | 369+71.85 | 2963402.510 | 663531.908 | | S66°13'43"E 2255.15' | 392+27.00 | 2962493.483 | 665595.730 |
| L219 | 392+27.00 | 2962493.483 | 665595.730 | | S66°18'55"E 1499.60' | 407+26.60 | 2961891.088 | 666969.015 |
| C220 | 407+26.60 | 2961891.088 | 666969.015 | R=500.00' Δ=2°19'04" L=20.23' T=10.11' | | 407+46.82 | 2961882.591 | 666987.368 |
| L220 | 407+46.82 | 2961882.591 | 666987.368 | | S63°59'51"E 27.94' | 407+74.76 | 2961870.342 | 667012.481 |
| C221 | 407+74.76 | 2961870.342 | 667012.481 | R=500.00' Δ=2°17'42" L=20.03' T=10.01' | | 407+94.79 | 2961861.924 | 667030.651 |
| L221 | 407+94.79 | 2961861.924 | 667030.651 | | S66°17'33"E 730.94' | 415+25.73 | 2961568.037 | 667699.907 |
| C222 | 415+25.73 | 2961568.037 | 667699.907 | R=499.59' Δ=7°40'18" L=66.89' T=33.50' | | 415+92.62 | 2961545.316 | 667762.771 |
| C223 | 415+92.62 | 2961545.316 | 667762.771 | R=500.00' Δ=7°45'40" L=67.73' T=33.92' | | 416+60.35 | 2961522.262 | 667826.400 |
| L222 | 416+60.35 | 2961522.262 | 667826.400 | | S66°12'11"E 50.19' | 417+10.54 | 2961502.012 | 667872.321 |

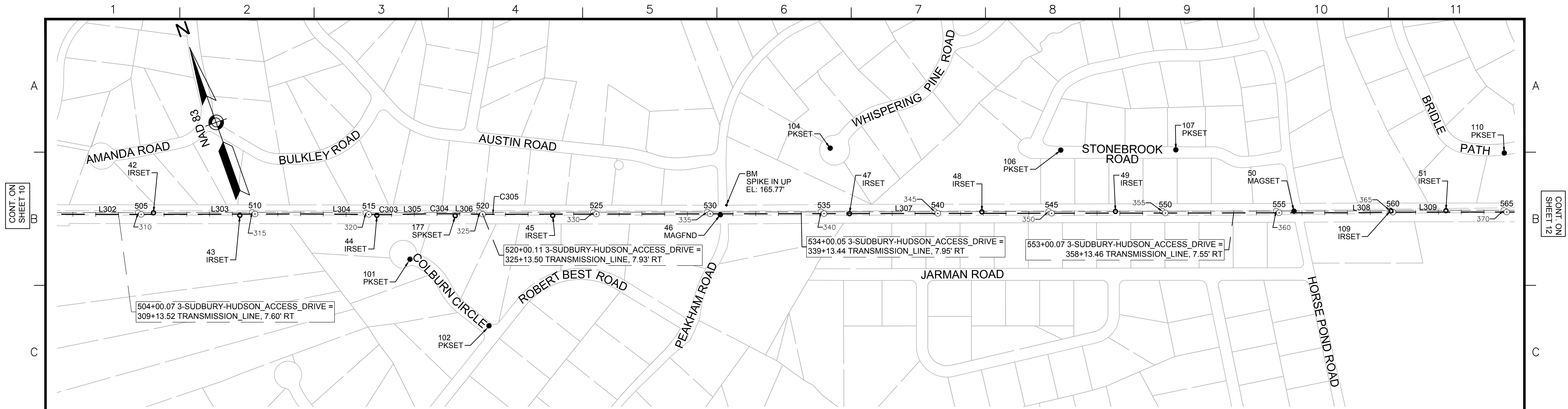
| 3-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA | | | | | | | | |
|--|------------------|-------------|------------|--|---------------------|----------------|-------------|------------|
| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | NORTHING | EASTING |
| L301 | 500+00.00 | 2961502.012 | 667872.321 | | S66°12'11"E 2.28' | 500+02.28 | 2961501.092 | 667874.407 |
| C301 | 500+02.28 | 2961501.092 | 667874.407 | R=500.00' Δ=7°41'35" L=67.14' T=33.62' | | 500+69.41 | 2961469.967 | 667933.834 |
| C302 | 500+69.41 | 2961469.967 | 667933.834 | R=500.00' Δ=7°41'34" L=67.13' T=33.62' | | 501+36.55 | 2961438.842 | 667993.259 |
| L302 | 501+36.55 | 2961438.842 | 667993.259 | | S66°12'10"E 352.24' | 504+88.78 | 2961296.716 | 668315.548 |

| BENCHMARK TABLE | | | |
|-----------------|------------|--------|------------------------|
| NORTHING | EASTING | ELEV | DESCRIPTION |
| 2963737.068 | 662785.722 | 202.07 | TOP OF TOWN LINE BOUND |
| 2963074.470 | 664374.265 | 192.93 | CONC. BOUND |
| 2962172.866 | 666309.477 | 166.94 | CHISEL SQUARE |
| 2961546.450 | 667868.173 | 182.43 | SPIKE IN UP |

| SURVEY TRAVERSE TABLE | | | | | | |
|-----------------------|-------------|------------|--------|-----------------|----------------|---------------|
| POINT # | NORTHING | EASTING | ELEV | RAW DESCRIPTION | STATION CONSTR | OFFSET CONSTR |
| 1 | 2963745.726 | 662730.239 | 198.48 | IRSET | 360+96.89 | 7.67 RT |
| 40 | 2961873.800 | 667025.482 | 171.31 | IRSET | 407+82.40 | 8.70 LT |
| 41 | 2961510.586 | 667848.645 | 181.70 | IRSET | 416+82.29 | 7.29 LT |
| 42 | 2961276.984 | 668377.806 | 188.16 | IRSET | 505+53.68 | 6.74 LT |
| 120 | 2963656.875 | 662950.210 | 197.18 | HTS | 363+34.03 | 0.66 RT |
| 121 | 2963489.402 | 663331.297 | 194.65 | HTS | 367+50.41 | 4.91 RT |
| 122 | 2963365.831 | 663611.237 | 193.31 | HTS | 370+56.52 | 1.59 RT |
| 123 | 2963292.393 | 663798.336 | 191.85 | HTS | 372+57.35 | 6.62 LT |
| 124 | 2963155.264 | 664111.471 | 190.70 | HTS | 375+99.20 | 7.35 LT |
| 125 | 2963048.085 | 664356.309 | 188.72 | HTS | 378+66.46 | 7.95 LT |
| 252 | 2962245.033 | 666160.019 | 168.98 | TRV MAG | 398+40.85 | 0.85 RT |
| 253 | 2962365.661 | 665913.641 | 171.64 | TRV MAG | 395+66.77 | 10.65 LT |
| 254 | 2962773.106 | 664982.657 | 181.84 | TRV SPIKE | 385+50.51 | 8.78 LT |
| 255 | 2963070.212 | 664310.860 | 189.64 | TRV DH | 378+15.95 | 9.88 LT |
| 18000 | 2962245.042 | 666159.997 | 169.01 | ZZ | 398+40.83 | 0.85 RT |
| 18044 | 2962245.028 | 666160.012 | 168.98 | ZZ | 398+40.85 | 0.85 RT |
| 18045 | 2962245.041 | 666159.998 | 168.99 | ZZ | 398+40.83 | 0.85 RT |
| 18115 | 2962244.993 | 666159.978 | 169.01 | ZZ | 398+40.83 | 0.90 RT |



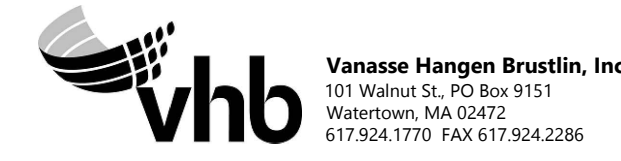
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| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| SURVEY TIE-IN PLANS | | | | |
| PLAN 10 OF 348 | | | | |
| SCALE: unless noted 1"=200' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APP. REV. MES |
| DRAWING NO. | | REV. | | |



| 3-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA | | | | | | | |
|--|------------------|-------------|------------|--|-------------------------|----------------|-------------|
| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | EASTING |
| L302 | 501+36.55 | 2961438.842 | 667993.259 | | S66°12'10"E 352.24' | 504+88.78 | 2961296.716 |
| L303 | 504+88.78 | 2961296.716 | 668315.548 | | S66°29'41"E 714.53' | 512+03.31 | 2961011.736 |
| L304 | 512+03.31 | 2961011.736 | 668970.789 | | S65°47'36"E 355.56' | 515+58.87 | 2960865.948 |
| C303 | 515+58.87 | 2960865.948 | 669295.083 | R=2000.00' Δ=2°02'02" L=70.99' T=35.50' | | 516+29.86 | 2960837.994 |
| L305 | 516+29.86 | 2960837.994 | 669360.337 | | S67°49'38"E 62.53' | 516+92.40 | 2960814.394 |
| C304 | 516+92.40 | 2960814.394 | 669418.247 | R=5000.00' Δ=2°28'08" L=215.46' T=107.75' | | 519+07.86 | 2960728.805 |
| L306 | 519+07.86 | 2960728.805 | 669615.962 | | S65°21'30"E 56.37' | 519+64.23 | 2960705.304 |
| C305 | 519+64.23 | 2960705.304 | 669667.194 | R=5000.00' Δ=1°03'24" L=92.20' T=46.10' | | 520+56.43 | 2960667.637 |
| L307 | 520+56.43 | 2960667.637 | 669751.349 | | S66°24'53"E 3804.53' | 558+60.96 | 2959145.398 |
| L308 | 558+60.96 | 2959145.398 | 673238.076 | | S67°25'05"E 114.60' | 559+75.56 | 2959101.392 |
| L309 | 559+75.56 | 2959101.392 | 673343.887 | | S66°25'05"E 324.74' | 563+00.30 | 2958971.476 |

| SURVEY TRAVERSE TABLE | | | | | | |
|-----------------------|-------------|------------|--------|-----------------|----------------|---------------|
| POINT # | NORTHING | EASTING | ELEV | RAW DESCRIPTION | STATION CONSTR | OFFSET CONSTR |
| 42 | 2961276.984 | 668377.806 | 188.16 | IRSET | 505+53.68 | 6.74 LT |
| 43 | 2961114.242 | 668720.884 | 186.90 | IRSET | 509+33.20 | 5.67 RT |
| 44 | 2960872.290 | 669272.068 | 179.54 | IRSET | 515+35.16 | 5.71 RT |
| 45 | 2960561.109 | 669979.507 | 170.77 | IRSET | 523+08.08 | 6.11 RT |
| 46 | 2960268.559 | 670655.156 | 164.98 | MAGFND | 530+44.34 | 3.24 RT |
| 47 | 2960044.841 | 671176.622 | 158.38 | IRSET | 536+11.75 | 0.17 LT |
| 48 | 2959818.439 | 671712.628 | 158.76 | IRSET | 541+93.58 | 6.87 LT |
| 49 | 2959584.190 | 672250.787 | 164.97 | IRSET | 547+80.51 | 7.26 LT |
| 50 | 2959270.319 | 672969.429 | 166.74 | MAGSET | 555+64.70 | 7.01 LT |
| 51 | 2959003.971 | 673581.771 | 161.78 | IRSET | 562+32.47 | 5.88 LT |
| 101 | 2960637.452 | 669327.889 | 173.64 | PKSET | 516+80.03 | 200.80 RT |
| 102 | 2960230.460 | 669528.351 | 161.76 | PKSET | 520+29.54 | 489.96 RT |
| 104 | 2960342.456 | 671214.805 | 164.86 | PKSET | 535+27.81 | 288.24 LT |
| 106 | 2959927.516 | 672139.020 | 156.93 | PKSET | 545+40.82 | 277.29 LT |
| 107 | 2959725.836 | 672602.609 | 167.23 | PKSET | 550+46.28 | 277.74 LT |
| 109 | 2959100.366 | 673360.157 | 163.15 | IRSET | 559+90.81 | 5.57 LT |
| 110 | 2959133.231 | 673918.507 | 165.88 | PKSET | 564+88.88 | 259.43 LT |
| 177 | 2960732.743 | 669586.484 | 175.07 | SPKSET | 518+79.35 | 8.71 RT |

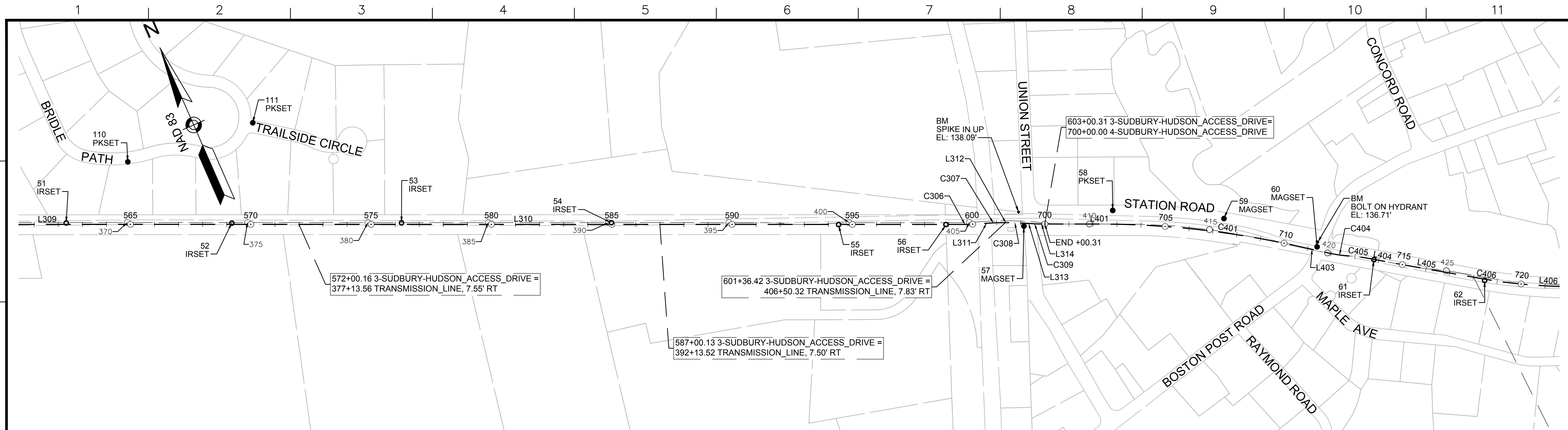
| BENCHMARK TABLE | | | |
|-----------------|------------|--------|-------------|
| NORTHING | EASTING | ELEV | DESCRIPTION |
| 2960296.323 | 670696.507 | 165.77 | SPIKE IN UP |



| | | | | | | |
|---|------------------|-------------|---------------|--------------|-------------|-------|
| NO. | | DESCRIPTION | | BY | DATE | APPR. |
| REVISION | | | | | | |
| EVERSOURCE | | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | |
| SURVEY TIE-IN PLANS | | | | | | |
| PLAN 11 OF 348 | | | | | | |
| SCALE: unless noted 1"=200' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPR. MES | DRAWING NO. | REV. |

CONT. ON SHEET 10

CONT. ON SHEET 12



CONT. ON SHEET 11

CONT. ON SHEET 13

| 3-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA | | | | | | | |
|--|------------------|-------------|------------|----------------------------------|-------------------------|----------------|-------------|
| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | EASTING |
| L309 | 559+75.56 | 2959101.392 | 673343.887 | | S66°25'05"E 324.74' | 563+00.30 | 2958971.476 |
| L310 | 563+00.30 | 2958971.476 | 673641.508 | | S66°18'26"E 3665.57' | 599+65.87 | 2957498.529 |
| C306 | 599+65.87 | 2957498.529 | 676998.123 | R = 500.00' L=31.71' T=15.86' | Δ=3°38'00" | 599+97.58 | 2957486.717 |
| L311 | 599+97.58 | 2957486.717 | 677027.541 | | S69°56'26"E 84.99' | 600+82.57 | 2957457.567 |
| C307 | 600+82.57 | 2957457.567 | 677107.371 | R = 500.00' L=31.81' T=15.91' | Δ=3°38'42" | 601+14.37 | 2957445.714 |
| L312 | 601+14.37 | 2957445.714 | 677136.884 | | S66°17'43"E 47.14' | 601+61.52 | 2957426.761 |
| C308 | 601+61.52 | 2957426.761 | 677180.049 | R = 500.00' L=28.08' T=14.05' | Δ=3°13'05" | 601+89.60 | 2957414.756 |
| L313 | 601+89.60 | 2957414.756 | 677205.432 | | S63°04'38"E 68.56' | 602+58.16 | 2957383.711 |
| C309 | 602+58.16 | 2957383.711 | 677266.565 | R = 500.00' L=28.08' T=14.05' | Δ=3°13'05" | 602+86.25 | 2957371.705 |
| L314 | 602+86.25 | 2957371.705 | 677291.948 | | S66°17'43"E 14.06' | 603+00.31 | 2957366.053 |

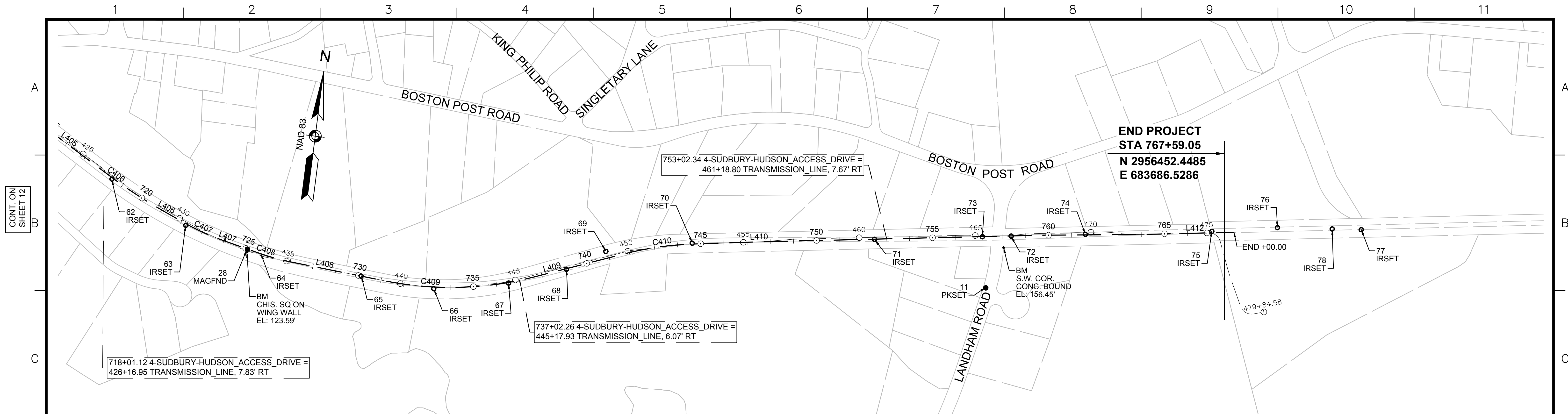
| 4-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA | | | | | | | |
|--|------------------|-------------|------------|-------------------------------------|------------------------|----------------|-------------|
| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | EASTING |
| L401 | 700+00.00 | 2957366.053 | 677304.821 | | S66°14'03"E 231.13' | 702+31.13 | 2957272.909 |
| C401 | 702+31.13 | 2957272.909 | 677516.349 | R = 3750.00' L=813.02' T=408.11' | Δ=12°25'19" | 710+44.14 | 2956867.482 |
| L403 | 710+44.14 | 2956867.482 | 678219.228 | | S53°48'44"E 149.49' | 711+93.63 | 2956779.221 |
| C404 | 711+93.63 | 2956779.221 | 678339.877 | R = 500.00' L=84.03' T=42.12' | Δ=9°37'46" | 712+77.66 | 2956735.524 |
| C405 | 712+77.66 | 2956735.524 | 678411.539 | R = 500.00' L=66.80' T=33.45' | Δ=7°39'17" | 713+44.46 | 2956701.760 |
| L404 | 713+44.46 | 2956701.760 | 678469.121 | | S55°47'13"E 137.37' | 714+81.84 | 2956624.519 |
| L405 | 714+81.84 | 2956624.519 | 678582.722 | | S66°18'15"E 352.06' | 718+33.90 | 2956429.201 |
| C406 | 718+33.90 | 2956429.201 | 678875.635 | R = 2150.00' L=279.56' T=139.98' | Δ=7°27'00" | 721+13.46 | 2956289.642 |
| L406 | 721+13.46 | 2956289.642 | 679117.643 | | S63°45'15"E 104.16' | 722+17.62 | 2956243.579 |

| SURVEY TRAVERSE TABLE | | | | | | |
|-----------------------|-------------|------------|--------|-----------------|----------------|---------------|
| POINT # | NORTHING | EASTING | ELEV | RAW DESCRIPTION | STATION CONSTR | OFFSET CONSTR |
| 51 | 2959003.971 | 673581.771 | 161.78 | IRSET | 562+32.47 | 5.88 LT |
| 52 | 2958726.419 | 674211.952 | 162.45 | IRSET | 589+21.06 | 4.82 LT |
| 53 | 2958444.371 | 674858.194 | 159.51 | IRSET | 576+26.17 | 6.23 LT |
| 54 | 2958094.408 | 675657.138 | 150.43 | IRSET | 584+98.40 | 6.80 LT |
| 55 | 2957707.933 | 676518.674 | 141.46 | IRSET | 594+42.61 | 0.90 RT |
| 56 | 2957528.922 | 676927.440 | 137.87 | IRSET | 598+88.86 | 0.57 RT |
| 57 | 2957392.601 | 677221.786 | 136.73 | MAGSET | 602+14.14 | 12.35 RT |
| 58 | 2957304.172 | 677585.894 | 133.06 | PKSET | 702+82.18 | 56.64 LT |
| 59 | 2957087.530 | 677995.592 | 132.68 | MAGSET | 707+37.83 | 54.69 LT |
| 60 | 2956824.551 | 678302.748 | 134.41 | MAGSET | 711+37.94 | 8.24 LT |
| 61 | 2956680.926 | 678497.843 | 132.30 | IRSET | 713+80.00 | 1.09 RT |
| 62 | 2956416.645 | 678884.311 | 130.43 | IRSET | 718+48.12 | 5.68 RT |
| 110 | 2959133.231 | 673918.507 | 165.88 | PKSET | 564+88.88 | 259.43 LT |
| 111 | 2959073.271 | 674459.148 | 167.27 | PKSET | 570+08.04 | 421.77 LT |

| BENCHMARK TABLE | | | |
|-----------------|------------|--------|-----------------|
| NORTHING | EASTING | ELEV | DESCRIPTION |
| 2957455.231 | 677224.797 | 138.09 | SPIKE IN UP |
| 2956841.239 | 678313.243 | 136.71 | BOLT ON HYDRANT |



| | | | | | | | | | | | | | | |
|---|--|--|------------------|-------------|--|-------------|--|---------|----------------|-------|--|--------------|--|--|
| NO. | | | | DESCRIPTION | | | | BY DATE | | APPR. | | | | |
| EVERSOURCE | | | | | | | | | | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | | | | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | | | | | | | | | |
| SURVEY TIE-IN PLANS | | | | | | | | | | | | | | |
| PLAN 12 OF 348 | | | | | | | | | | | | | | |
| SCALE: unless noted 1"=200' | | | DATE OCT 2020 | | | DRAWN MS | | | C'H'K'D. SK | | | APPR. MES | | |
| DRAWING NO. | | | | REV. | | | | | | | | | | |

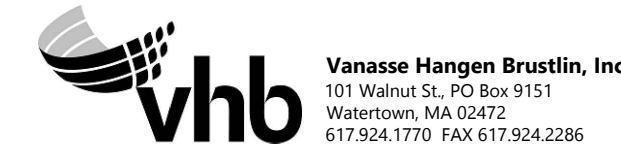


**END PROJECT
STA 767+59.05
N 2956452.4485
E 683686.5286**

| 4-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA | | | | | | | | |
|--|------------------|-------------|------------|---|------------------------|----------------|-------------|------------|
| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | NORTHING | EASTING |
| L405 | 714+81.84 | 2956624.519 | 678582.722 | | S66°18'15"E 352.06' | 718+33.90 | 2956429.201 | 678875.635 |
| C406 | 718+33.90 | 2956429.201 | 678875.635 | R=2150.00' L=279.96' Δ=7°27'00" T=139.98' | | 721+13.46 | 2956289.642 | 679117.643 |
| L406 | 721+13.46 | 2956289.642 | 679117.643 | | S63°45'15"E 104.16' | 722+17.62 | 2956243.579 | 679211.069 |
| C407 | 722+17.62 | 2956243.579 | 679211.069 | R=1000.00' L=172.63' Δ=9°53'27" T=86.53' | | 723+90.25 | 2956180.949 | 679371.703 |
| L407 | 723+90.25 | 2956180.949 | 679371.703 | | S73°38'42"E 171.77' | 725+62.02 | 2956132.580 | 679536.524 |
| C408 | 725+62.02 | 2956132.580 | 679536.524 | R=975.00' L=138.56' Δ=8°08'34" T=69.40' | | 727+00.58 | 2956103.125 | 679671.802 |
| L408 | 727+00.58 | 2956103.125 | 679671.802 | | S81°47'16"E 414.21' | 731+14.79 | 2956043.959 | 680081.760 |
| C409 | 731+14.79 | 2956043.959 | 680081.760 | R=1450.00' L=651.62' Δ=25°44'54" T=331.41' | | 737+66.41 | 2956096.475 | 680725.774 |
| L409 | 737+66.41 | 2956096.475 | 680725.774 | | N72°27'50"E 398.71' | 741+65.12 | 2956216.609 | 681105.957 |
| C410 | 741+65.12 | 2956216.609 | 681105.957 | R=1400.00' L=304.86' Δ=12°28'35" T=153.03' | | 744+69.98 | 2956276.216 | 681404.316 |
| L410 | 744+69.98 | 2956276.216 | 681404.316 | | N84°56'25"E 284.93' | 747+54.91 | 2956301.344 | 681688.134 |
| L412 | 763+88.36 | 2956423.284 | 683316.984 | | N85°29'15"E 411.64' | 768+00.00 | 2956455.670 | 683727.352 |

| SURVEY TRAVERSE TABLE | | | | | | |
|-----------------------|-------------|------------|--------|-----------------|----------------|---------------|
| POINT # | NORTHING | EASTING | ELEV | RAW DESCRIPTION | STATION CONSTR | OFFSET CONSTR |
| 28 | 2956147.431 | 679484.162 | | MAGFND | 725+07.67 | 0.49 RT |
| 62 | 2956416.645 | 678884.311 | 130.43 | IRSET | 718+48.12 | 5.68 RT |
| 63 | 2956235.685 | 679213.375 | 127.74 | IRSET | 722+23.22 | 6.08 RT |
| 65 | 2956058.540 | 679980.234 | 127.40 | IRSET | 730+12.41 | 0.07 RT |
| 66 | 2956021.600 | 680295.859 | 127.83 | IRSET | 733+29.75 | 7.51 RT |
| 67 | 2956063.791 | 680616.525 | 128.45 | IRSET | 736+52.67 | 2.73 RT |
| 68 | 2956136.912 | 680862.069 | 128.00 | IRSET | 739+08.74 | 2.51 RT |
| 69 | 2956223.381 | 681027.685 | 126.87 | IRSET | 740+92.72 | 30.04 LT |
| 70 | 2956279.196 | 681397.664 | 129.15 | IRSET | 744+63.82 | 3.57 LT |
| 71 | 2956339.379 | 682181.246 | 134.16 | IRSET | 752+49.67 | 0.88 RT |
| 72 | 2956386.005 | 682768.909 | 139.33 | IRSET | 758+39.18 | 0.63 RT |
| 73 | 2956376.175 | 682645.008 | 138.67 | IRSET | 757+14.89 | 0.68 RT |
| 74 | 2956411.369 | 683087.697 | 139.08 | IRSET | 761+58.97 | 0.43 RT |
| 75 | 2956454.066 | 683631.453 | 134.33 | IRSET | 767+04.66 | 5.95 LT |
| 76 | 2956485.859 | 683912.993 | 130.20 | IRSET | | |
| 77 | 2956496.909 | 684274.024 | 126.21 | IRSET | | |
| 78 | 2956493.088 | 684149.188 | 128.48 | IRSET | | |
| 115 | 2956157.017 | 682671.760 | 146.93 | PKSET | 757+24.32 | 221.27 RT |
| 18116 | 2956182.184 | 679384.347 | 126.53 | ZZ | | |
| 18212 | 2956182.152 | 679384.358 | 126.52 | ZZ | | |

| BENCHMARK TABLE | | | |
|-----------------|------------|--------|-----------------------|
| NORTHING | EASTING | ELEV | DESCRIPTION |
| 2956134.680 | 679483.085 | 123.59 | CHIS. SQ ON WING WALL |
| 2956334.172 | 682739.230 | 156.45 | S.W. COR. CONC. BOUND |

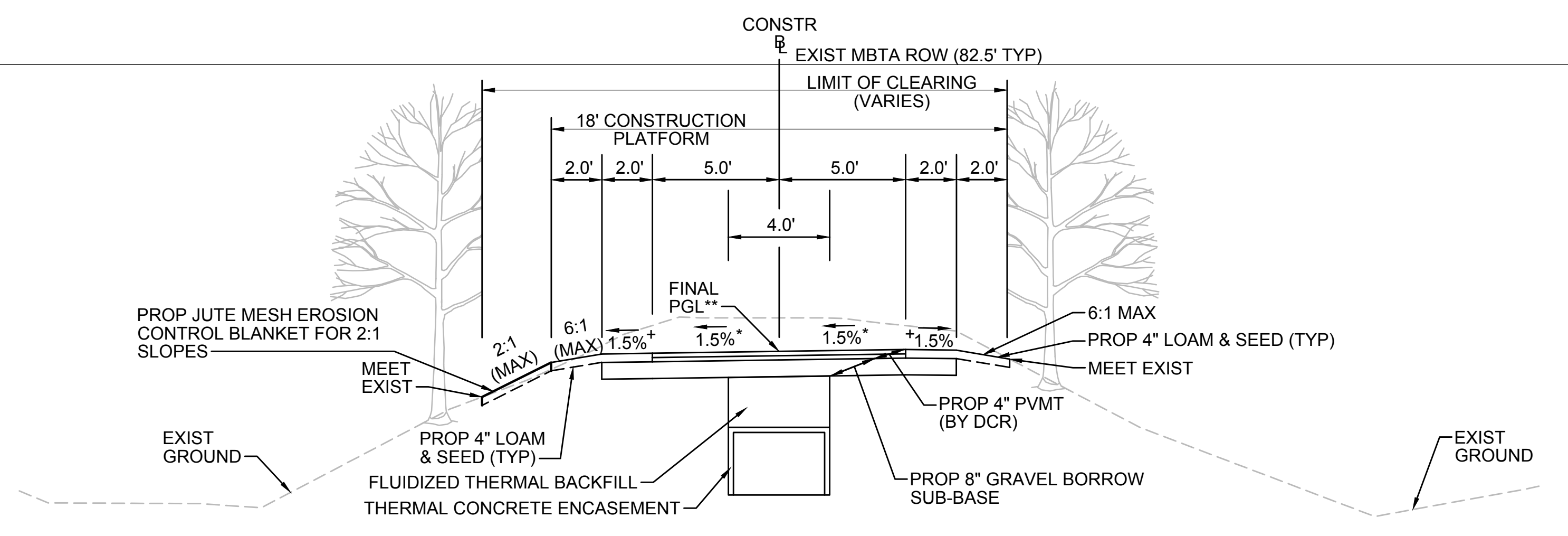


| | | | | | | |
|---|------------------|-------------|---------------|--------------|-------------|-------|
| NO. | | DESCRIPTION | | BY | DATE | APPR. |
| REVISION | | | | | | |
| EVERSOURCE | | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | |
| SURVEY TIE-IN PLANS | | | | | | |
| PLAN 13 OF 348 | | | | | | |
| SCALE: unless noted 1"=200' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPR. MES | DRAWING NO. | REV. |

CONT. ON SHEET 12

1 2 3 4 5 6 7 8 9 10 11

A

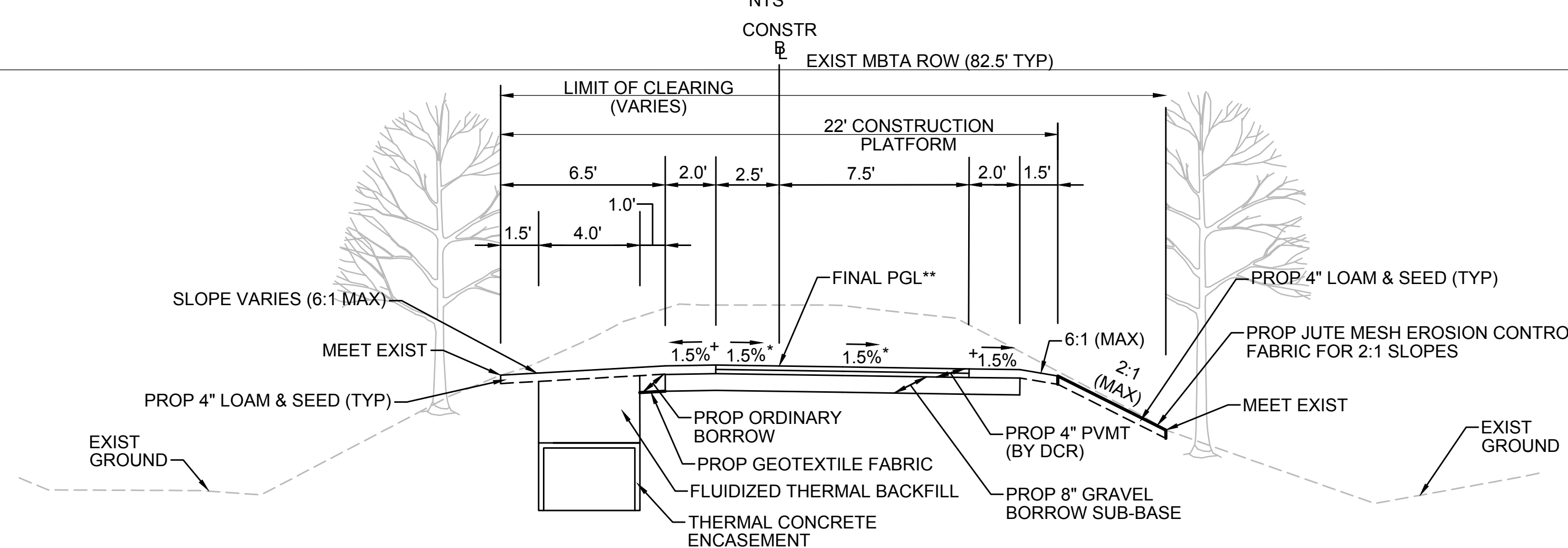


* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
 SEE CROSS SECTIONS FOR MORE INFORMATION

TYPICAL SECTION - CUT INTO EMBANKMENT - TRANSMISSION LINE IN CENTER

STA 112+50± TO STA 113+00±, STA 131+50± TO STA 131+75±, STA 145+75± TO STA 148+25±, STA 149+50± TO STA 153+00±, STA 397+25± TO STA 400+09±, STA 400+56± TO STA 402+50±, STA 592+00± TO STA 593+25±, STA 712+00± TO STA 715+75±, STA 723+25± TO STA 724+95±, STA 725+76± TO STA 730+00±, STA 732+00± TO STA 733+00±, STA 743+75± TO STA 747+16±, STA 747+50± TO STA 748+25±
 NTS

C

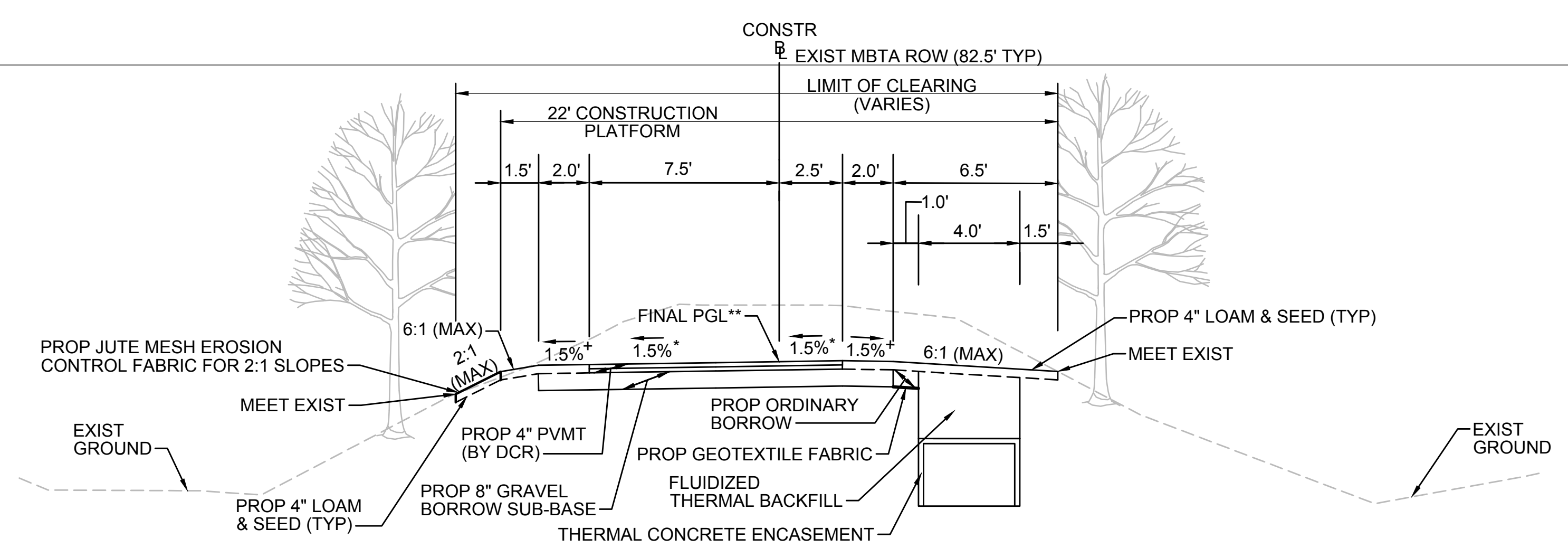


* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
 SEE CROSS SECTIONS FOR MORE INFORMATION

TYPICAL SECTION - CUT INTO EMBANKMENT - TRANSMISSION LINE ON LEFT

STA 142+25± TO STA 145+75±, STA 168+25± TO STA 171+00±, STA 350+25 TO STA 353+00±, STA 353+50± TO STA 357+00±, STA 368+00± TO STA 371+00±, STA 407+75± TO STA 409+25±, STA 409+75± TO STA 415+25±, STA 516+25± TO STA 519+75±, STA 520+25± TO STA 530+48±, STA 533+87± TO STA 534+00±, STA 534+00± TO STA 544+25±, STA 558+50± TO STA 563+75±, STA 576+75± TO STA 578+25±, STA 718+00± TO STA 721+25±, STA 748+25± TO STA 752+75±
 NTS

E



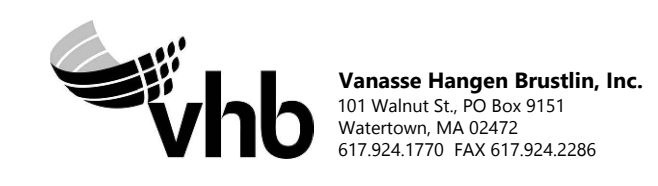
* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
 SEE CROSS SECTIONS FOR MORE INFORMATION

TYPICAL SECTION - CUT INTO EMBANKMENT - TRANSMISSION LINE ON RIGHT

STA 102+25± TO STA 112+50±, STA 128+50± TO STA 131+50±, STA 148+25± TO STA 148+43±, STA 149+20± TO STA 149+50±
 NTS

1 2 3 4 5 6 7 8 9 10 11

| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| TYPICAL SECTIONS | | | | |
| PLAN 14 OF 348 | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |



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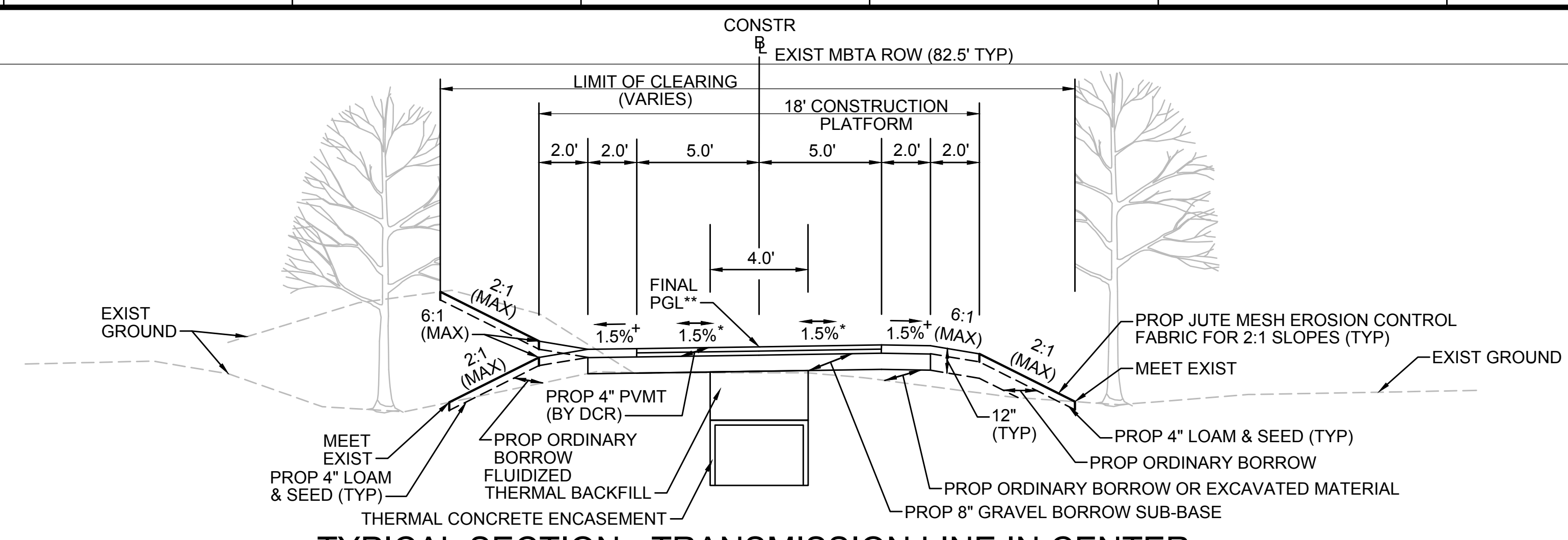
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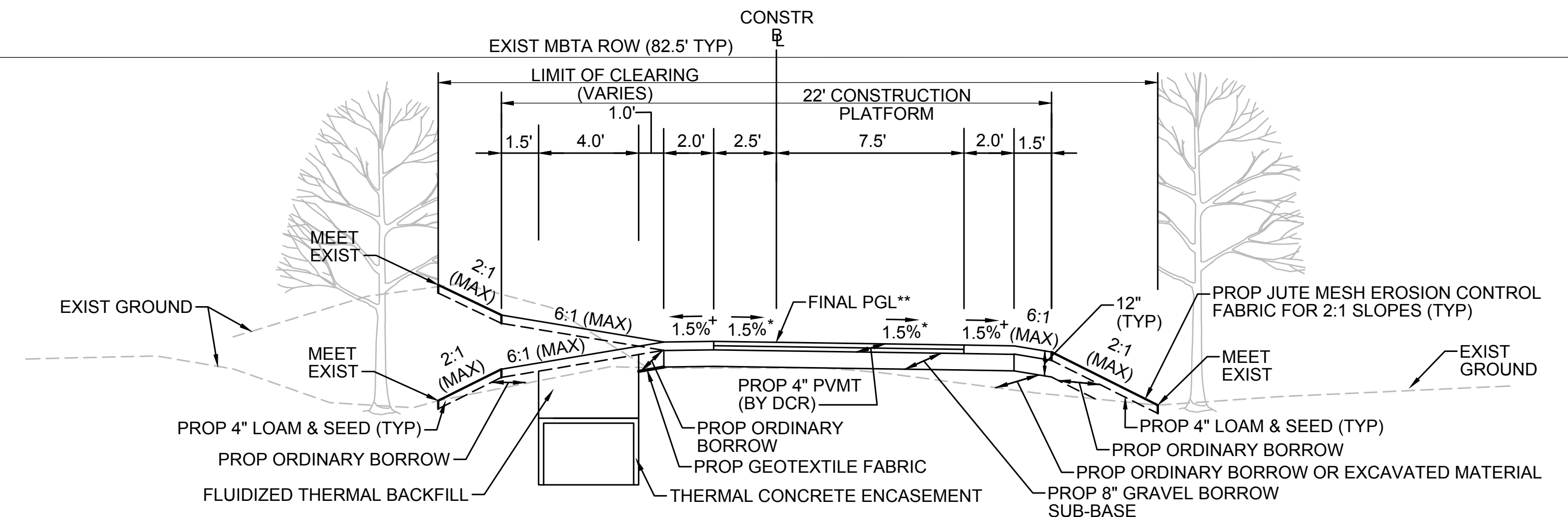
G



TYPICAL SECTION - TRANSMISSION LINE IN CENTER

STA 131+75± TO STA 132+44±, STA 132+84± TO STA 134+25±, STA 153+00± TO STA 153+50±, STA 204+75± TO STA 207+25±, STA 213+68± TO STA 214+00±, STA 397+00± TO STA 397+25±, STA 402+50± TO STA 403+25±, STA 516+00± TO STA 516+25±, STA 593+25± TO STA 594+00±, STA 700+25± TO STA 711+41±, STA 711+67± TO STA 712+00±, STA 715+75± TO STA 717+75±, STA 742+25± TO STA 743+75±, STA 757+50± TO STA 758+13±, STA 763+20± TO STA 767+21±
NTS

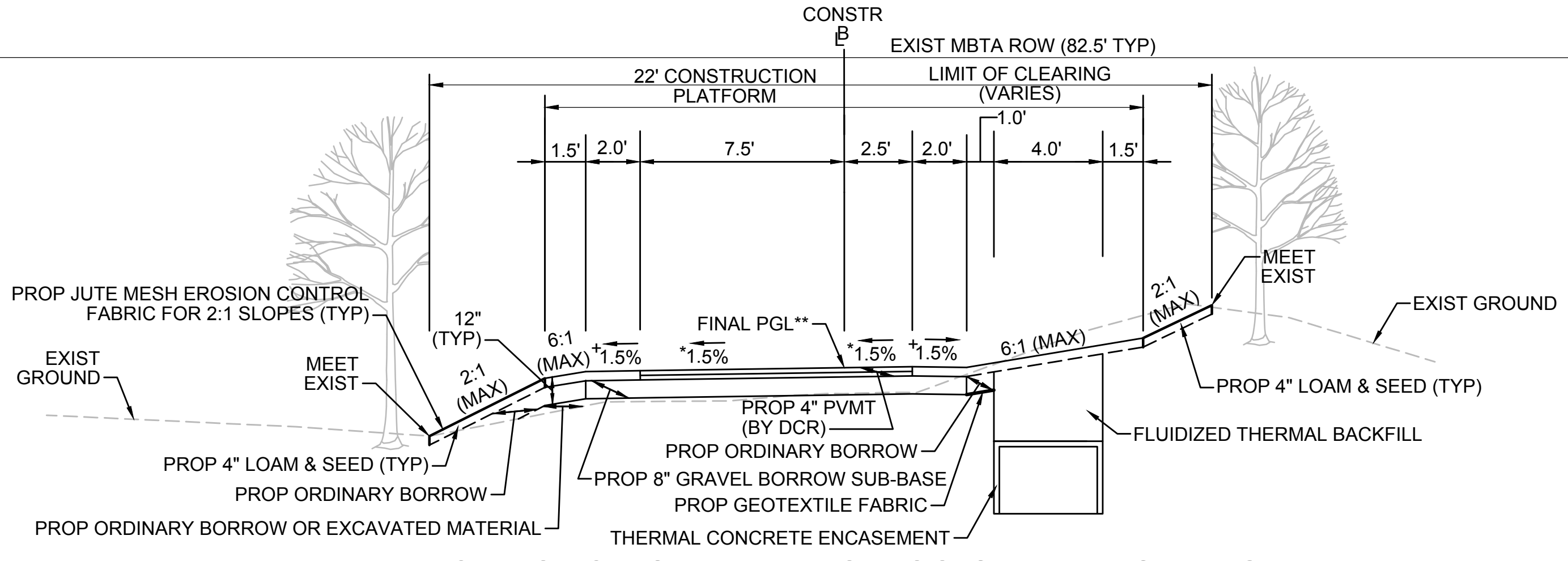
* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
SEE CROSS SECTIONS FOR MORE INFORMATION



TYPICAL SECTION - TRANSMISSION LINE ON LEFT

STA 134+75± TO STA 142+25±, STA 153+50± TO STA 157+75±, STA 158+25± TO STA 168+25±, STA 171+00± TO STA 175+00±, STA 180+25± TO STA 181+86±, STA 182+19± TO STA 182+50±, STA 185+00± TO STA 195+75±, STA 196+25± TO STA 204+75±, STA 207+25± TO STA 213+49±, STA 214+00± TO STA 300+00±, STA 300+50± TO STA 304+00±, STA 316+50± TO STA 335+00±, STA 335+50± TO STA 336+86±, STA 337+08± TO STA 348+75±, STA 357+00± TO STA 360+25±, STA 365+00± TO STA 368+00±, STA 371+50± TO STA 375+50±, STA 378+75± TO STA 390+00±, STA 390+50± TO STA 393+00±, STA 403+25± TO STA 404+50±, STA 407+50± TO STA 407+75±, STA 409+25± TO STA 409+75±, STA 415+25± TO STA 416+83±, STA 417+08± TO STA 500+21±, STA 533+00± TO STA 533+48±, STA 544+25± TO STA 552+75±, STA 553+25± TO STA 555+77±, STA 555+96± TO STA 558+50±, STA 563+75± TO STA 565+00±, STA 578+25± TO STA 579+00±, STA 588+25± TO STA 592+00±, STA 594+00± TO STA 601+09±, STA 601+59± TO STA 602+18±, STA 602+47± TO STA 700+25±, STA 722+25± TO STA 723+25±, STA 738+25± TO STA 742+25±, STA 753+00± TO STA 753+48±
NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
SEE CROSS SECTIONS FOR MORE INFORMATION



TYPICAL SECTION - TRANSMISSION LINE ON RIGHT

STA 100+31.46± TO STA 101+00±
NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
SEE CROSS SECTIONS FOR MORE INFORMATION

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SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
TYPICAL SECTIONS
PLAN 15 OF 348

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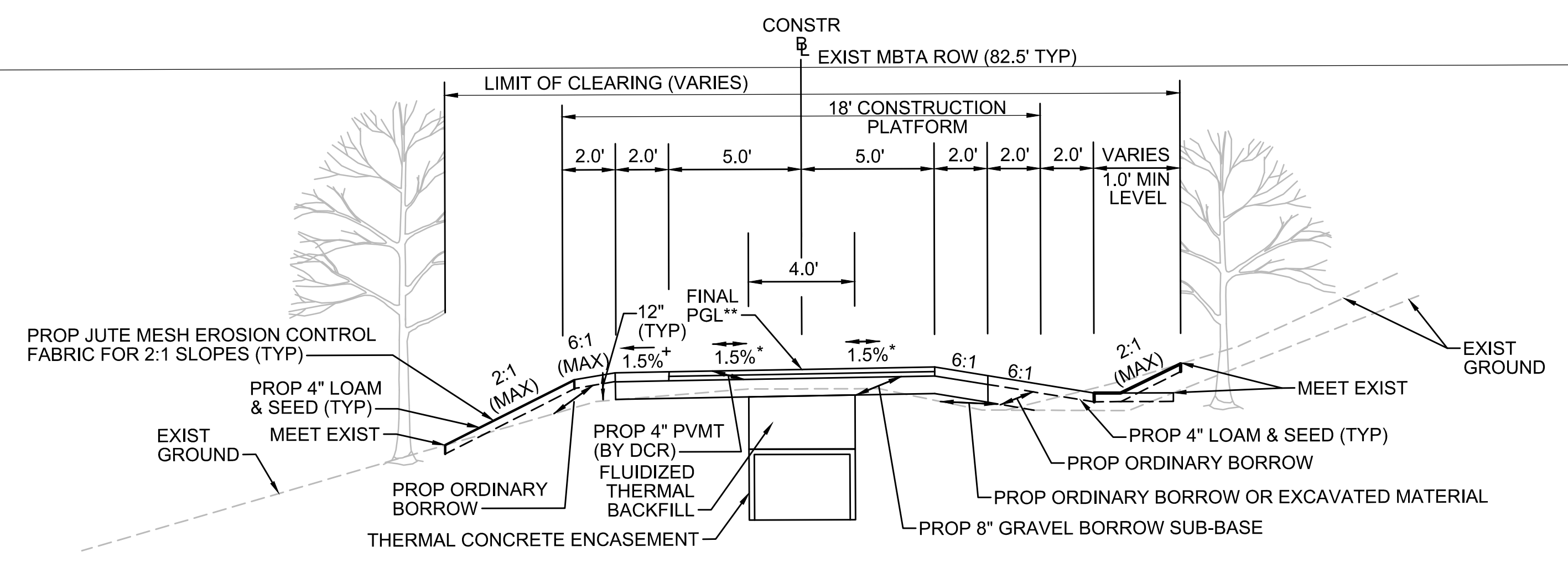
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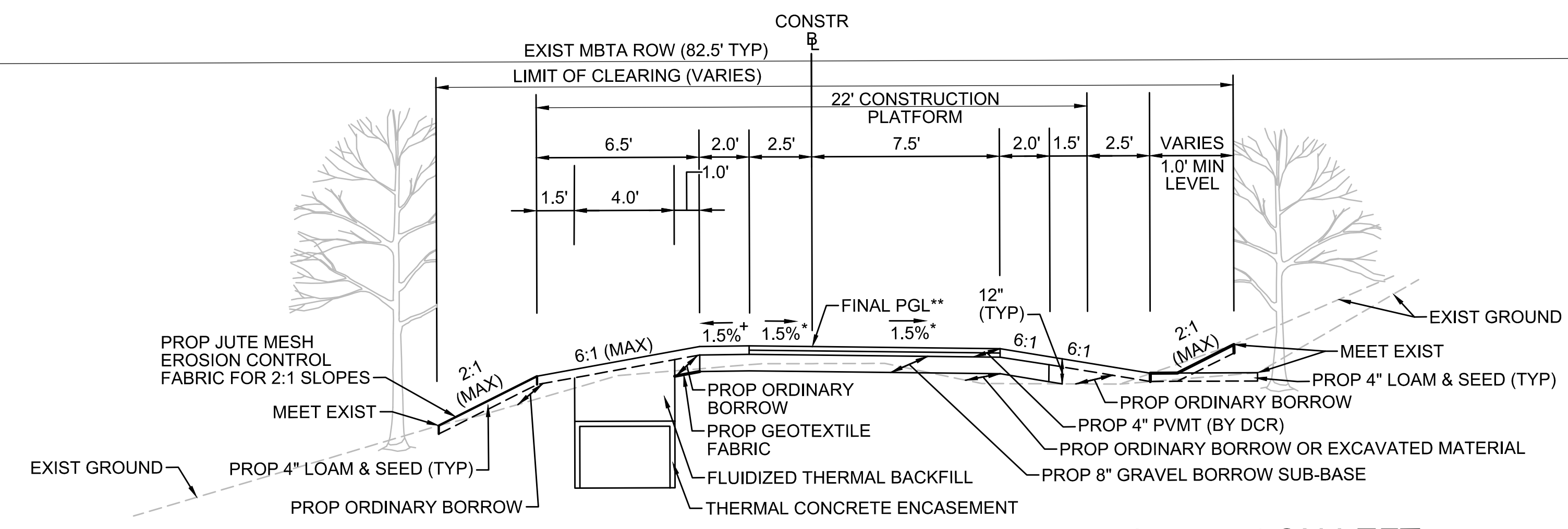
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TYPICAL SECTION - SWALE RIGHT SIDE - TRANSMISSION LINE IN CENTER

STA 113+00± TO STA 118+50±, STA 121+50± TO STA 126+25±
NTS

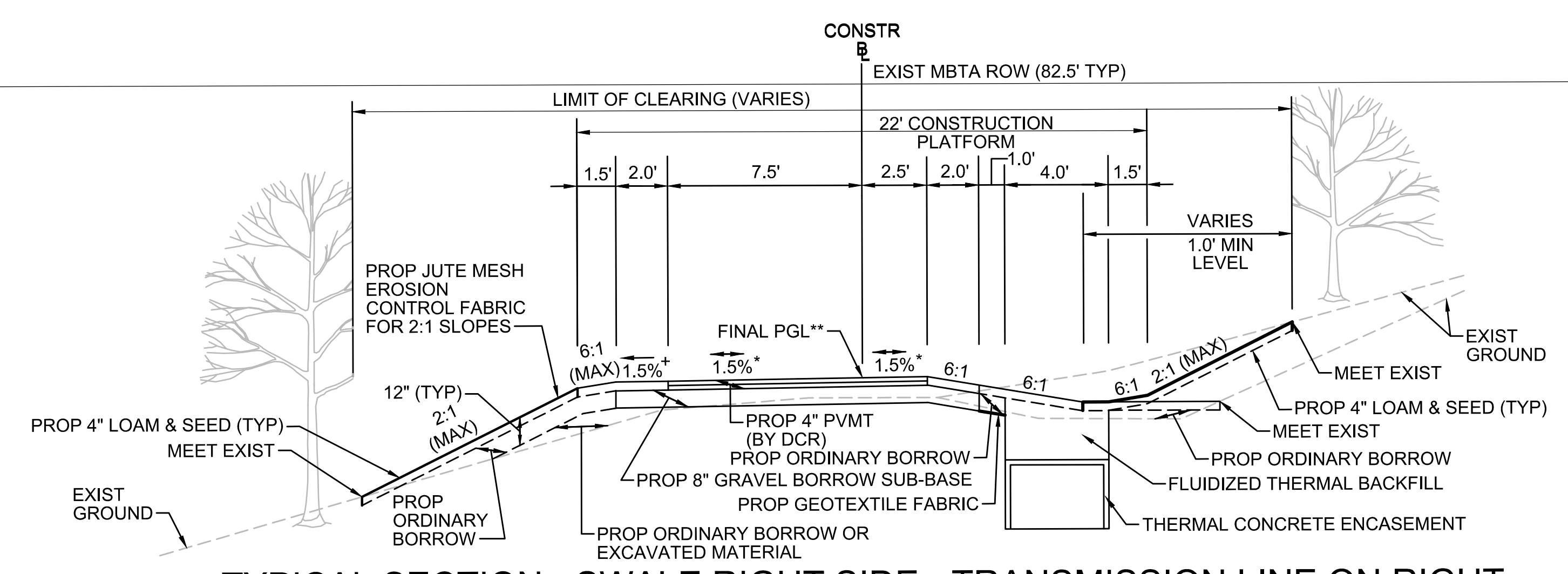
* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
SEE CROSS SECTIONS FOR MORE INFORMATION



TYPICAL SECTION - SWALE RIGHT SIDE - TRANSMISSION LINE ON LEFT

STA 134+25± TO STA 134+75±, STA 175+00± TO STA 175+50±, STA 304+00± TO STA 305+50±, STA 350+25± TO STA 350+50±,
STA 360+25± TO STA 362+50±, STA 405+00± TO STA 407+50±, STA 500+21± TO STA 500+25±, STA 512+50± TO STA 513+25±,
STA 533+48± TO STA 533+75±, STA 565+00± TO STA 569+00±, STA 579+00± TO STA 586+75±,
STA 587+25± TO STA 588+25±, STA 721+25± TO STA 722+25±
NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
SEE CROSS SECTIONS FOR MORE INFORMATION



TYPICAL SECTION - SWALE RIGHT SIDE - TRANSMISSION LINE ON RIGHT

STA 118+50± TO STA 120+75±, STA 121+25± TO STA 121+50±, STA 126+25± TO STA 128+50±
NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
SEE CROSS SECTIONS FOR MORE INFORMATION

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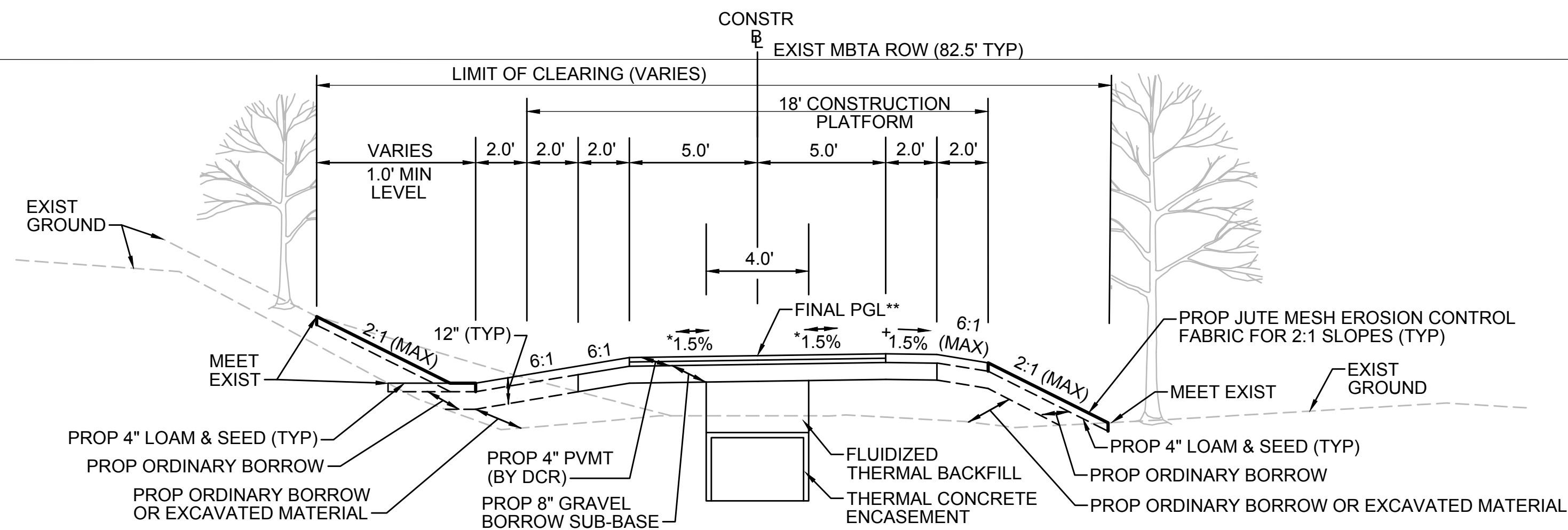
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
TYPICAL SECTIONS
PLAN 16 OF 348

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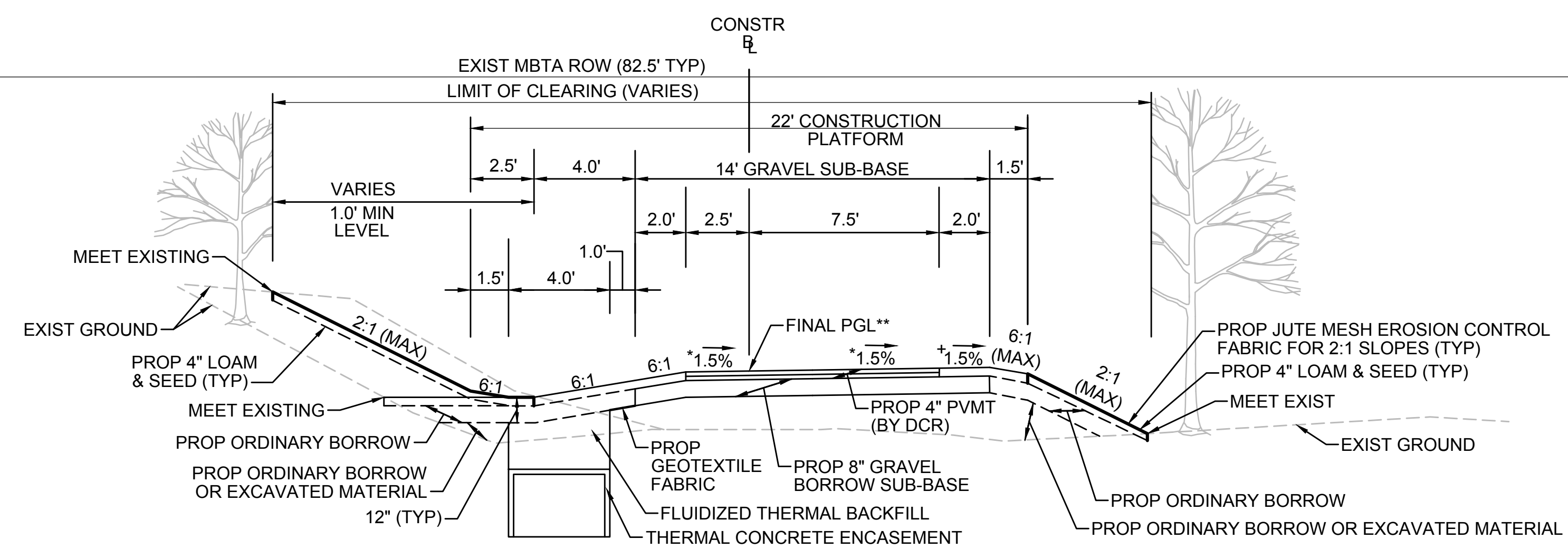
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TYPICAL SECTION - SWALE LEFT SIDE - TRANSMISSION LINE IN CENTER

STA 730+00± TO STA 732+00±, STA 733+00± TO STA 735+00±, STA 758+13± TO STA 558+50±, STA 762+75± TO STA 763+20±
NTS

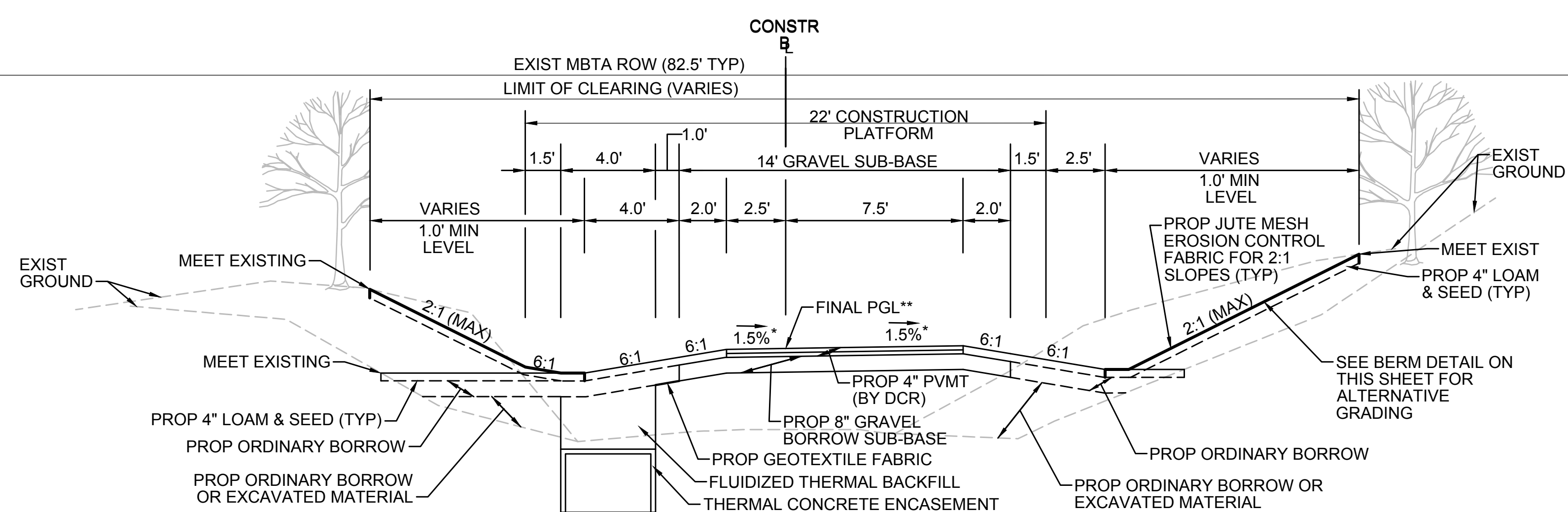
* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
SEE CROSS SECTIONS FOR MORE INFORMATION



TYPICAL SECTION - SWALE LEFT SIDE - TRANSMISSION LINE ON LEFT

STA 179+75± TO STA 180+25±, STA 184+50± TO STA 185+00±, STA 315+75± TO STA 316+14±, STA 375+50± TO STA 378+75±, STA 395+50± TO STA 397+00±, STA 530+71± TO STA 533+00±, STA 576+50± TO STA 576+75±, STA 735+00± TO STA 736+90±, STA 737+13± TO STA 738+25±, STA 758+50± TO STA 762+75±
NTS

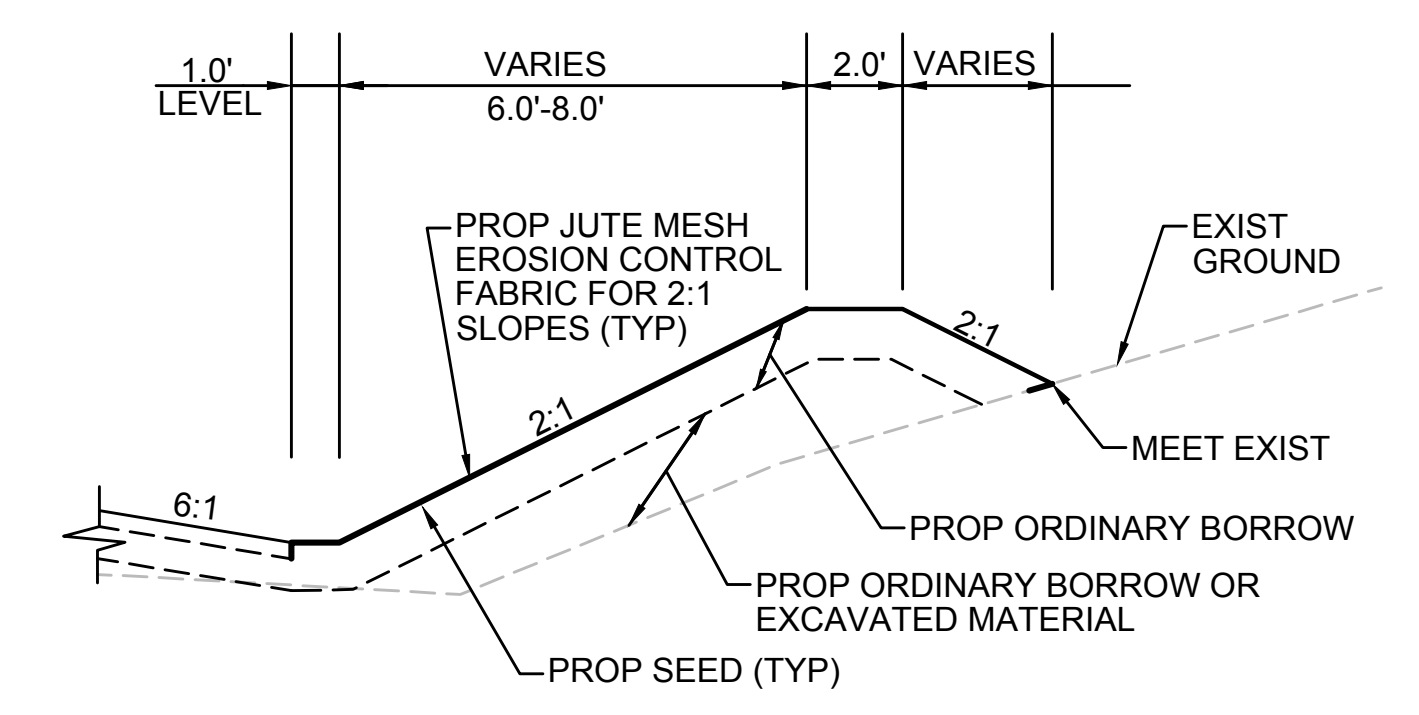
* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
SEE CROSS SECTIONS FOR MORE INFORMATION



TYPICAL SECTION - SWALE BOTH SIDES - TRANSMISSION LINE ON LEFT

STA 175+50± TO STA 176+75±, STA 177+25± TO STA 179+75±, STA 182+50± TO STA 184+50±, STA 305+50± TO STA 315+75±, STA 348+75± TO STA 350+25±, STA 362+50± TO STA 365+00±, STA 393+00± TO STA 395+50±, STA 500+25± TO STA 503+75±, STA 504+25± TO STA 512+50±, STA 513+25± TO STA 516+00±, STA 569+00± TO STA 571+75±, STA 572+25± TO STA 576+50±, STA 753+48± TO STA 757+50±
NTS

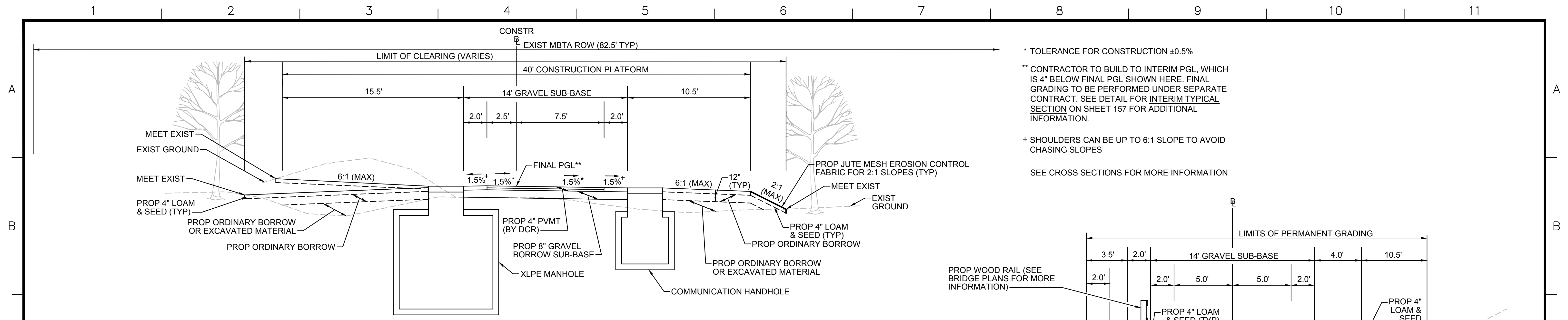
* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
SEE CROSS SECTIONS FOR MORE INFORMATION



BERM DETAIL
STA 394+50 TO STA 395+50



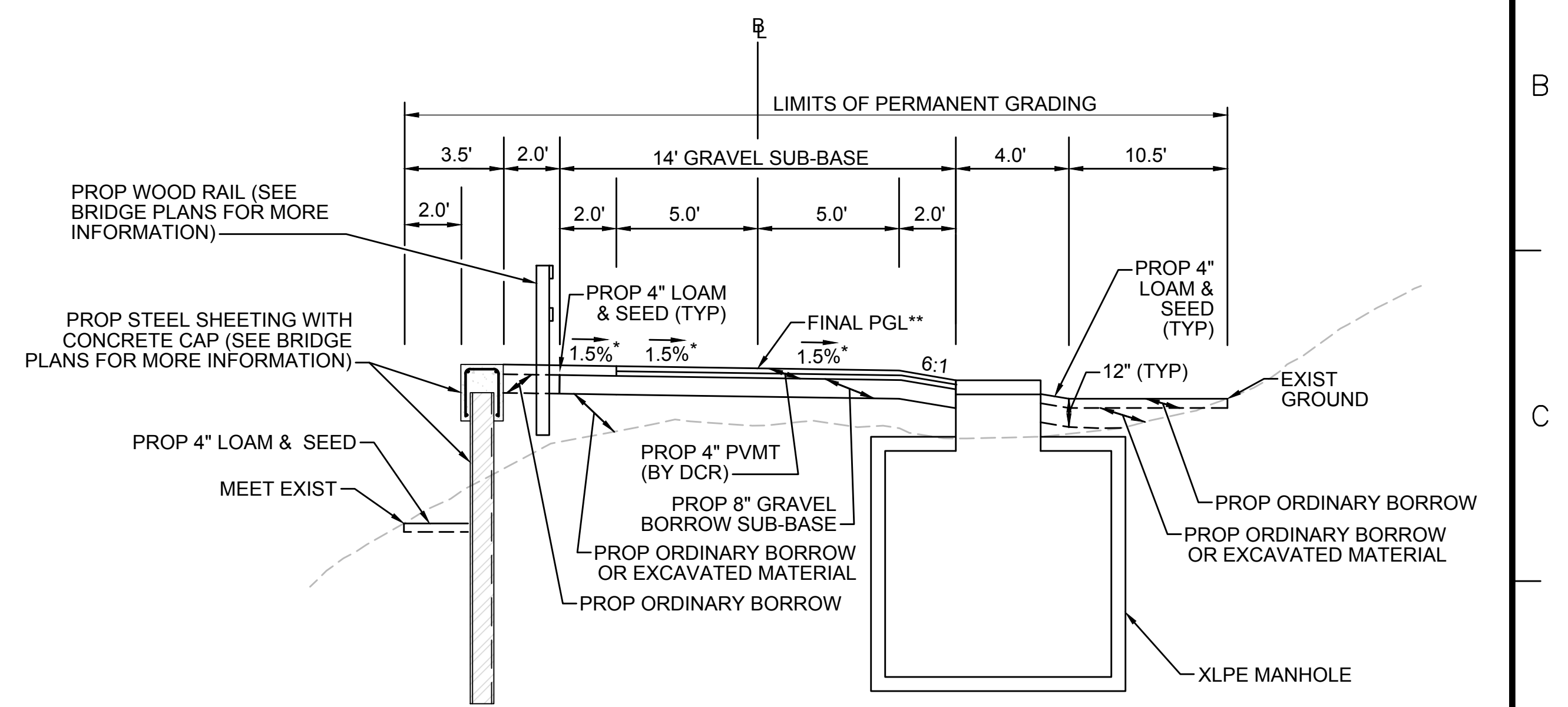
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | |
| TYPICAL SECTIONS | | | | | |
| PLAN 17 OF 348 | | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MS | CHK'D SK | APPR. MES | DRAWING NO. REV. |



TYPICAL SECTION - MANHOLE ON LEFT

STA 157+75± TO STA 158+25±, STA 195+75± TO STA 196+25±, STA 300+00± TO STA 300+50±, STA 335+00± TO STA 335+50±, STA 353+00± TO STA 353+50±, STA 371+00± TO STA 371+50±, STA 390+00± TO STA 390+50±, STA 519+75± TO STA 520+25±, STA 533+75± TO STA 534+25±, STA 552+75± TO STA 553+25±, STA 717+75± TO STA 718+25±, STA 752+75± TO STA 753+25± NTS

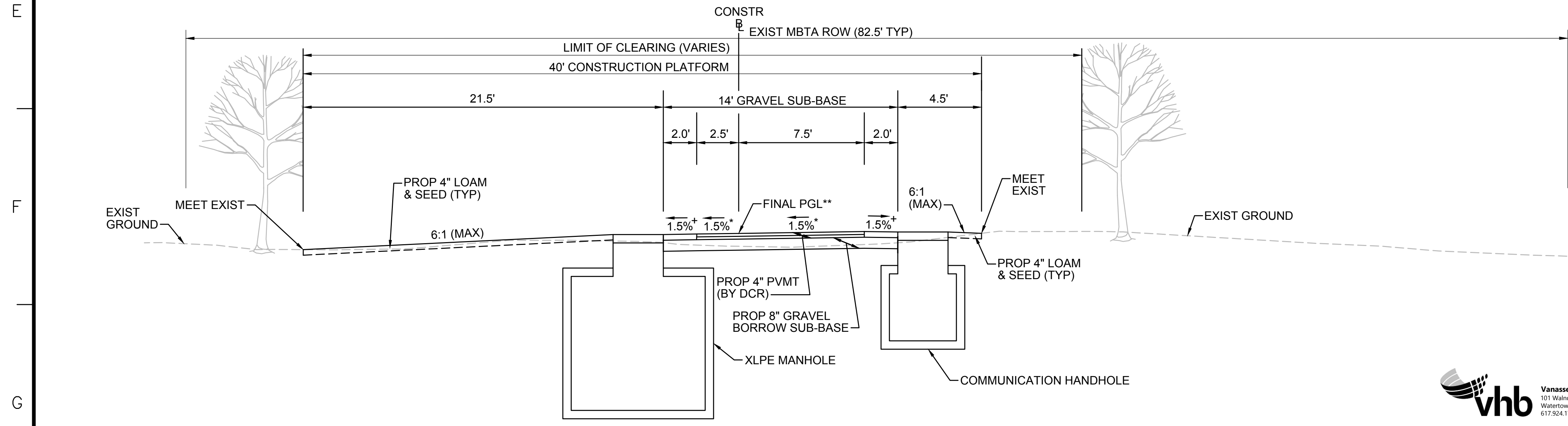
* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
 SEE CROSS SECTIONS FOR MORE INFORMATION



TYPICAL SECTION - SWALE RIGHT SIDE - MANHOLE ON RIGHT

STA 120+75± TO STA 121+25± NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
 SEE CROSS SECTIONS FOR MORE INFORMATION



TYPICAL SECTION - MANHOLE ON LEFT - OFF-CENTER CONSTRUCTION PLATFORM

STA 601+09± TO STA 601+59± NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
 SEE CROSS SECTIONS FOR MORE INFORMATION

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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| TYPICAL SECTIONS | | | | |
| PLAN 19 OF 348 | | | | |
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Vanasse Hangen Brustlin, Inc.
 101 Walnut St., PO Box 9151
 Watertown, MA 02472
 617.924.1770 FAX 617.924.2286

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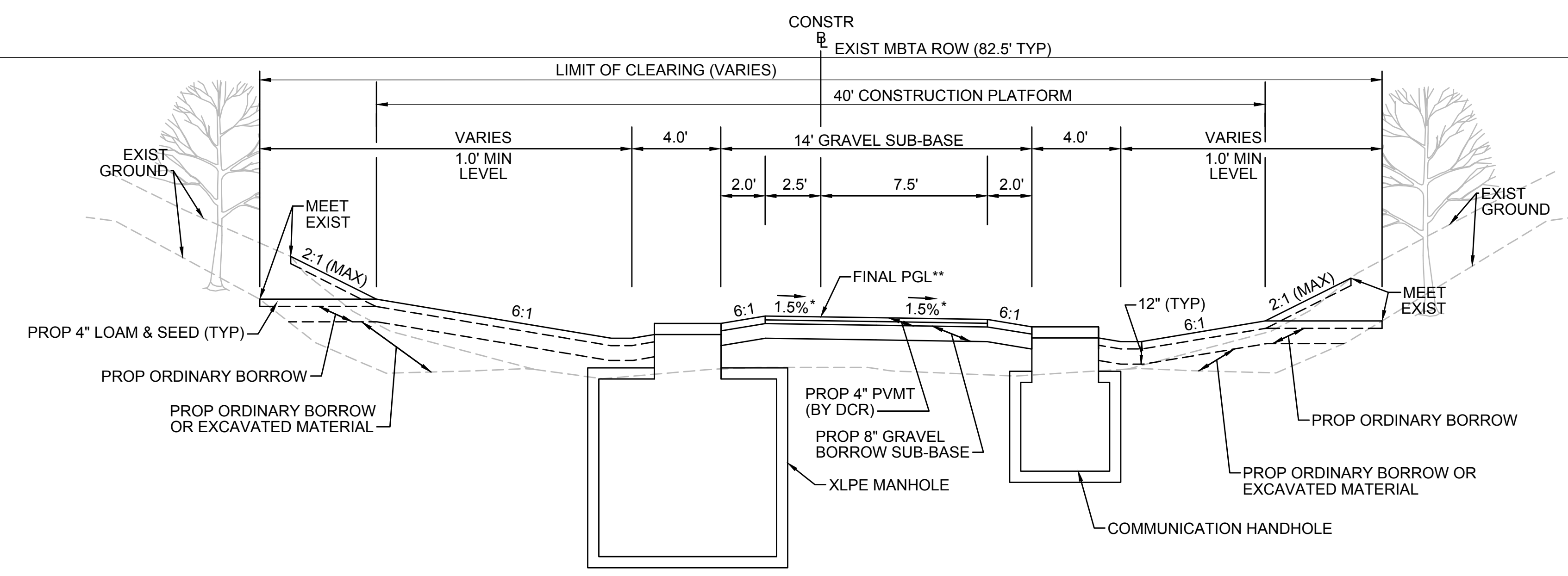
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TYPICAL SECTION - SWALE BOTH SIDES - MANHOLE ON LEFT

STA 176+75± TO STA 177+25±, STA 503+75± TO STA 504+25±, STA 571+75± TO STA 572+25±
NTS



* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
 SEE CROSS SECTIONS FOR MORE INFORMATION

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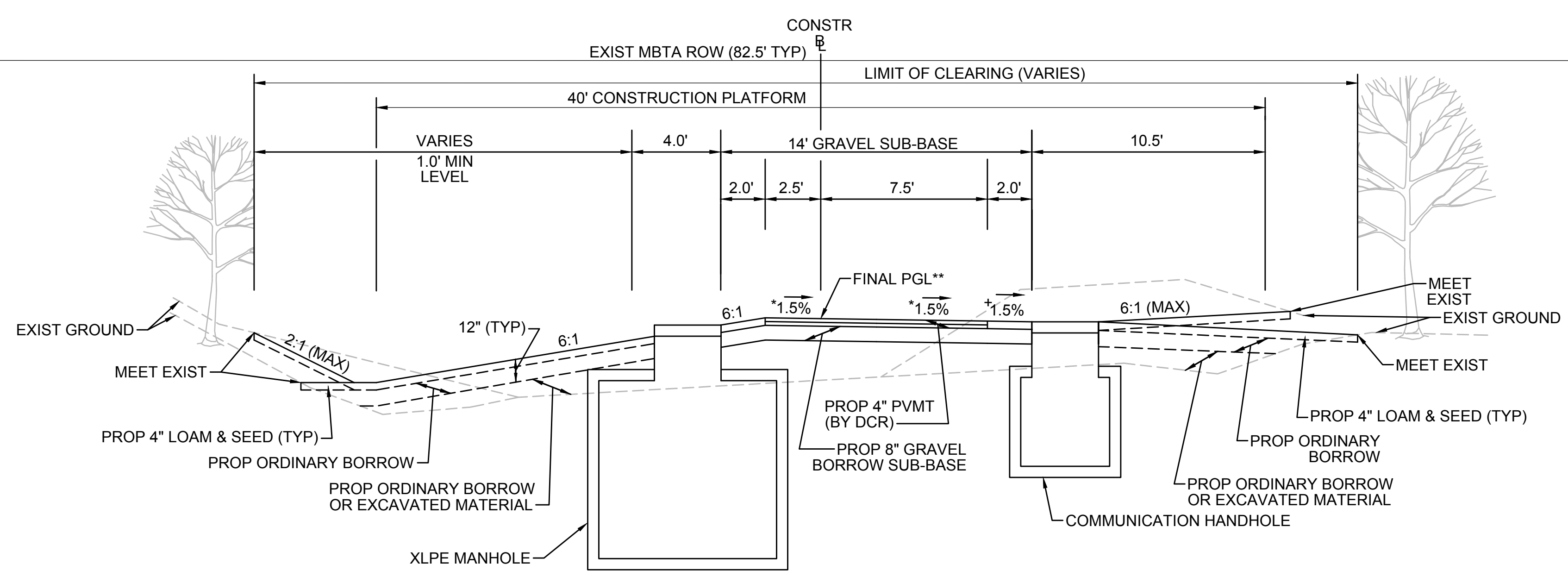
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TYPICAL SECTION - SWALE LEFT SIDE - MANHOLE ON LEFT

STA 316+00± TO STA 316+50±, STA 736+75± TO STA 737+25±
NTS



* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
 SEE CROSS SECTIONS FOR MORE INFORMATION

* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
 SEE CROSS SECTIONS FOR MORE INFORMATION

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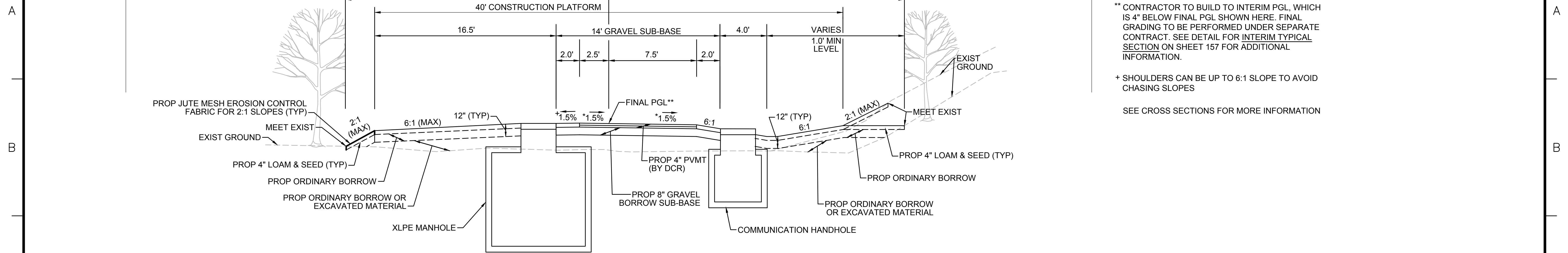
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| TYPICAL SECTIONS | | | | |
| PLAN 20 OF 348 | | | | |
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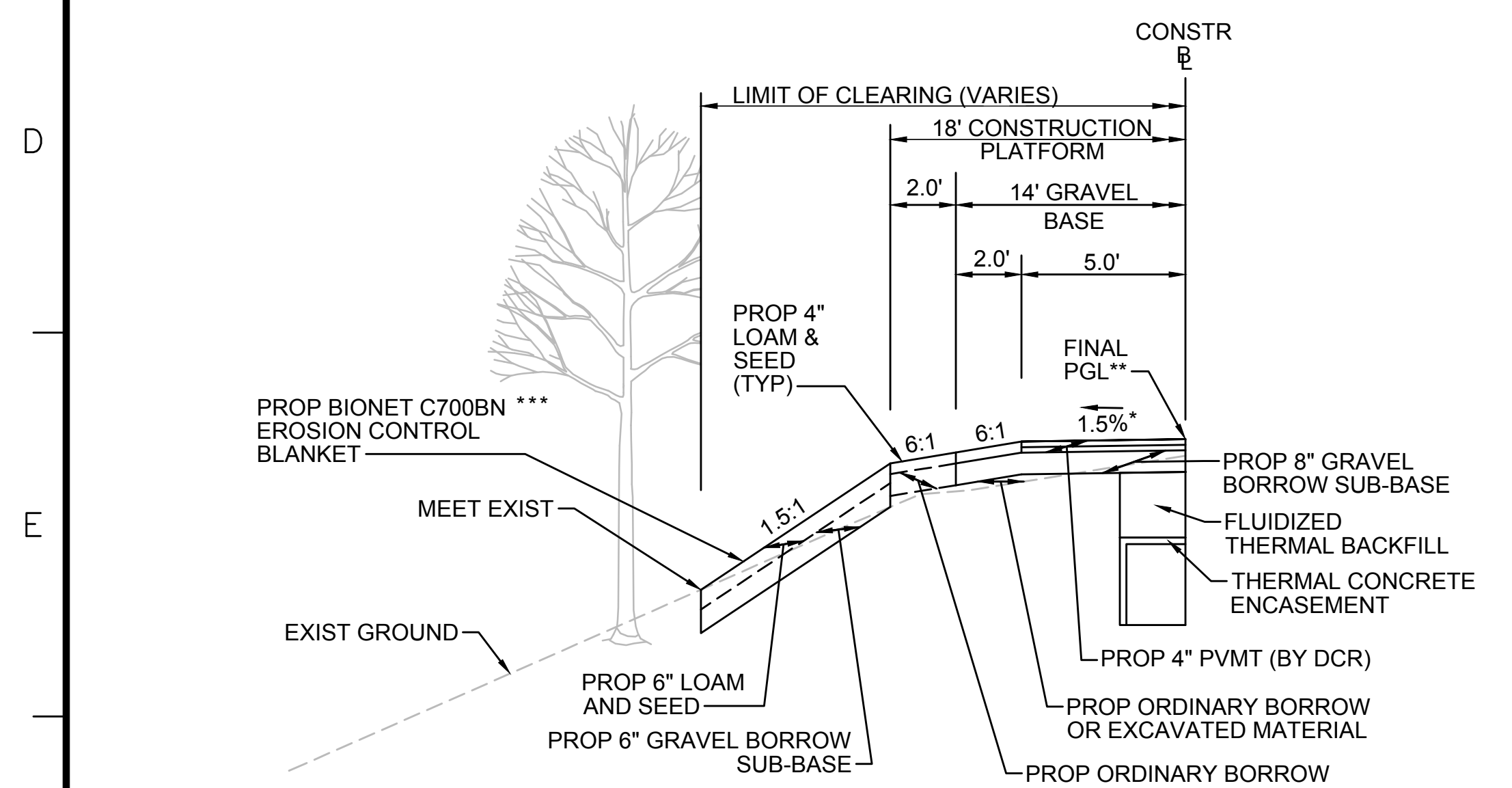
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TYPICAL SECTION - SWALE RIGHT SIDE - MANHOLE ON LEFT

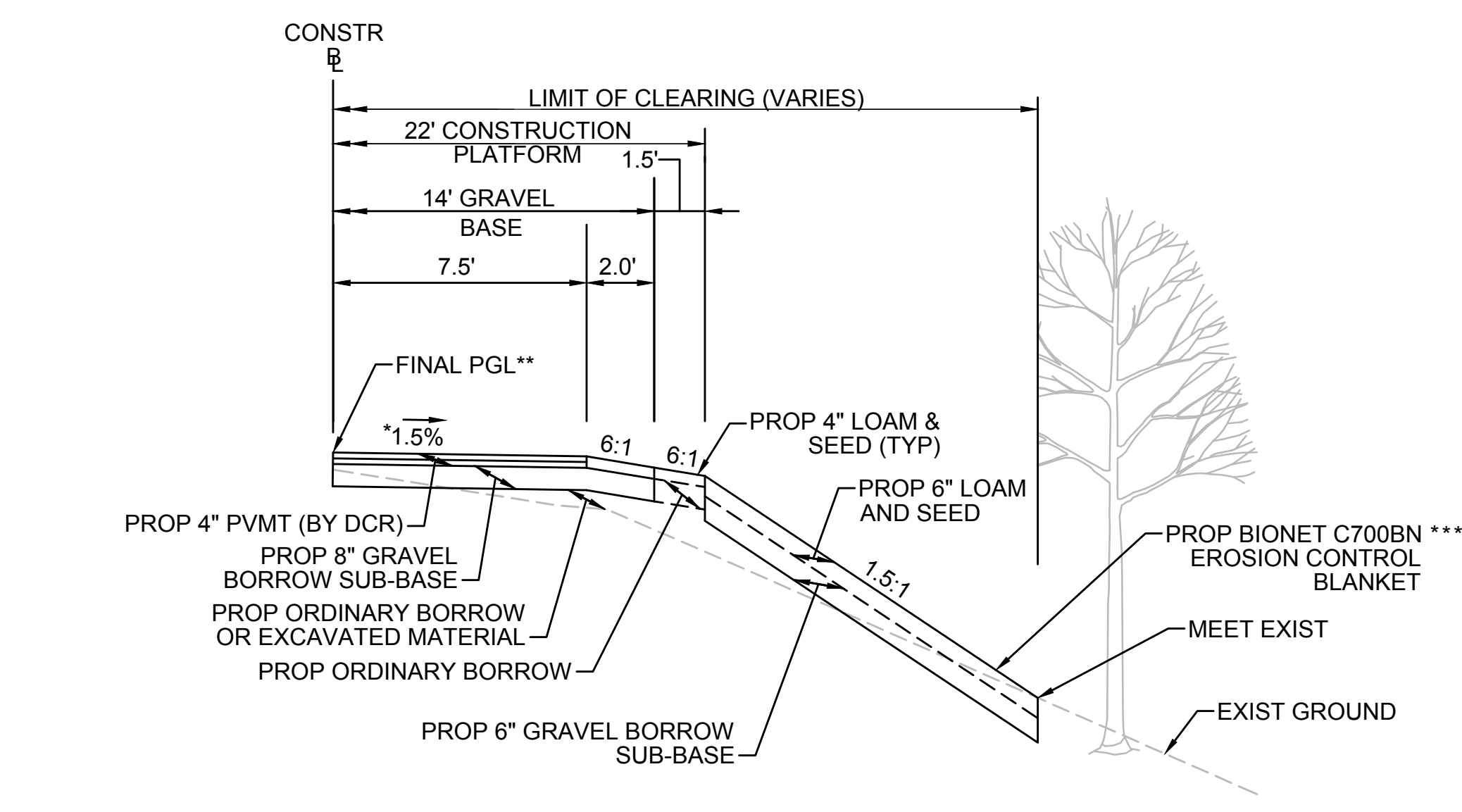
STA 404+50± TO STA 405+00±, STA 586+75± TO STA 587+25±
NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
SEE CROSS SECTIONS FOR MORE INFORMATION



STEEP SLOPE SECTION LT - TRANSMISSION LINE IN CENTER

STA 142+37± TO STA 142+75±, STA 747+16± TO STA 747+50±
NTS



STEEP SLOPE SECTION RT - TRANSMISSION LINE ON LEFT

STA 135+50± TO STA 138+25±
NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
*** ENGINEER TO VERIFY THAT INSTALLED EROSION CONTROL MEASURES ARE ADEQUATE FOR SLOPE STABILIZATION PRIOR TO PLACEMENT OF LOAM & SEED.
SEE CROSS SECTIONS FOR MORE INFORMATION

* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
*** ENGINEER TO VERIFY THAT INSTALLED EROSION CONTROL MEASURES ARE ADEQUATE FOR SLOPE STABILIZATION PRIOR TO PLACEMENT OF LOAM & SEED.
SEE CROSS SECTIONS FOR MORE INFORMATION



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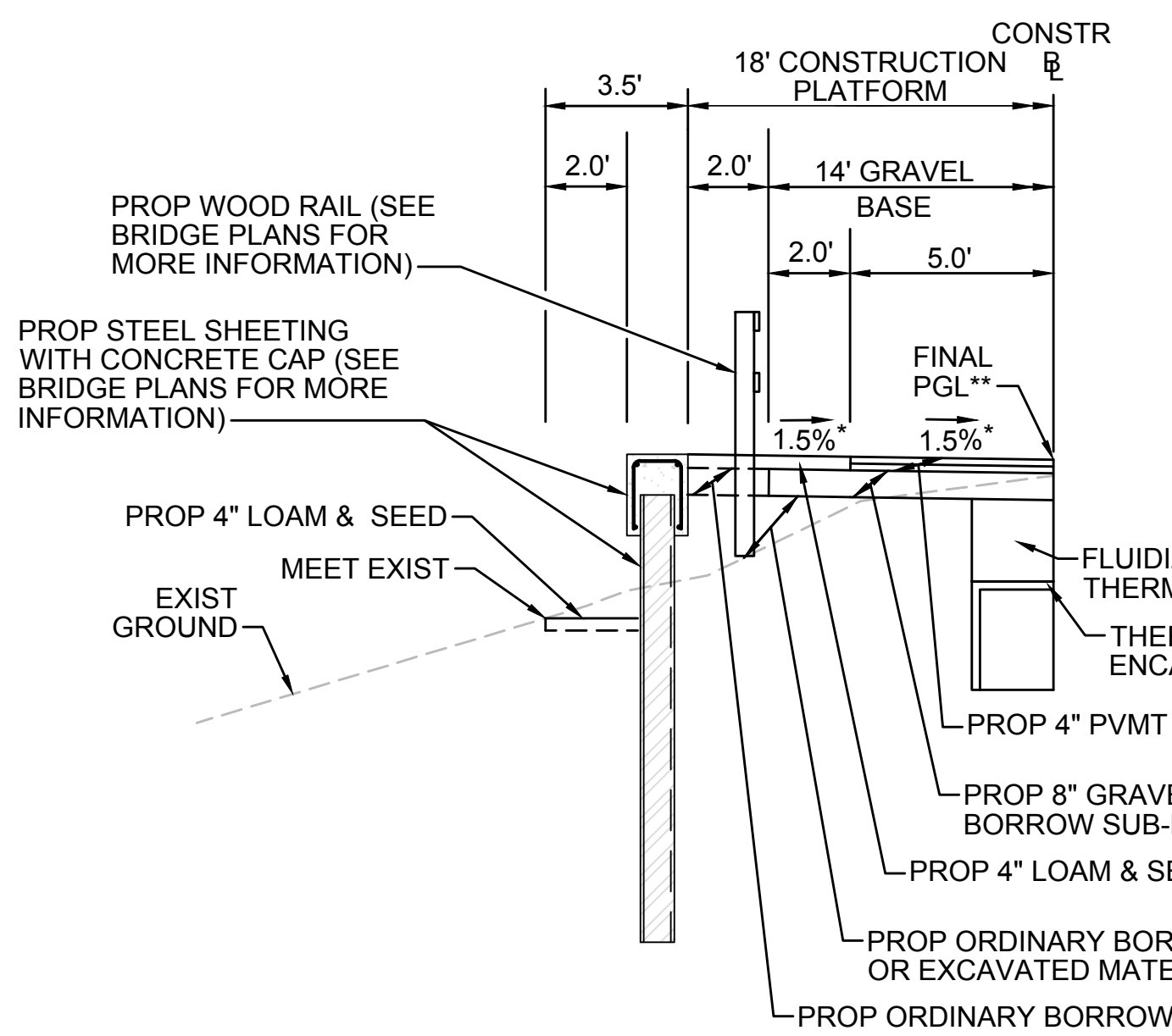
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SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
TYPICAL SECTIONS
PLAN 21 OF 348

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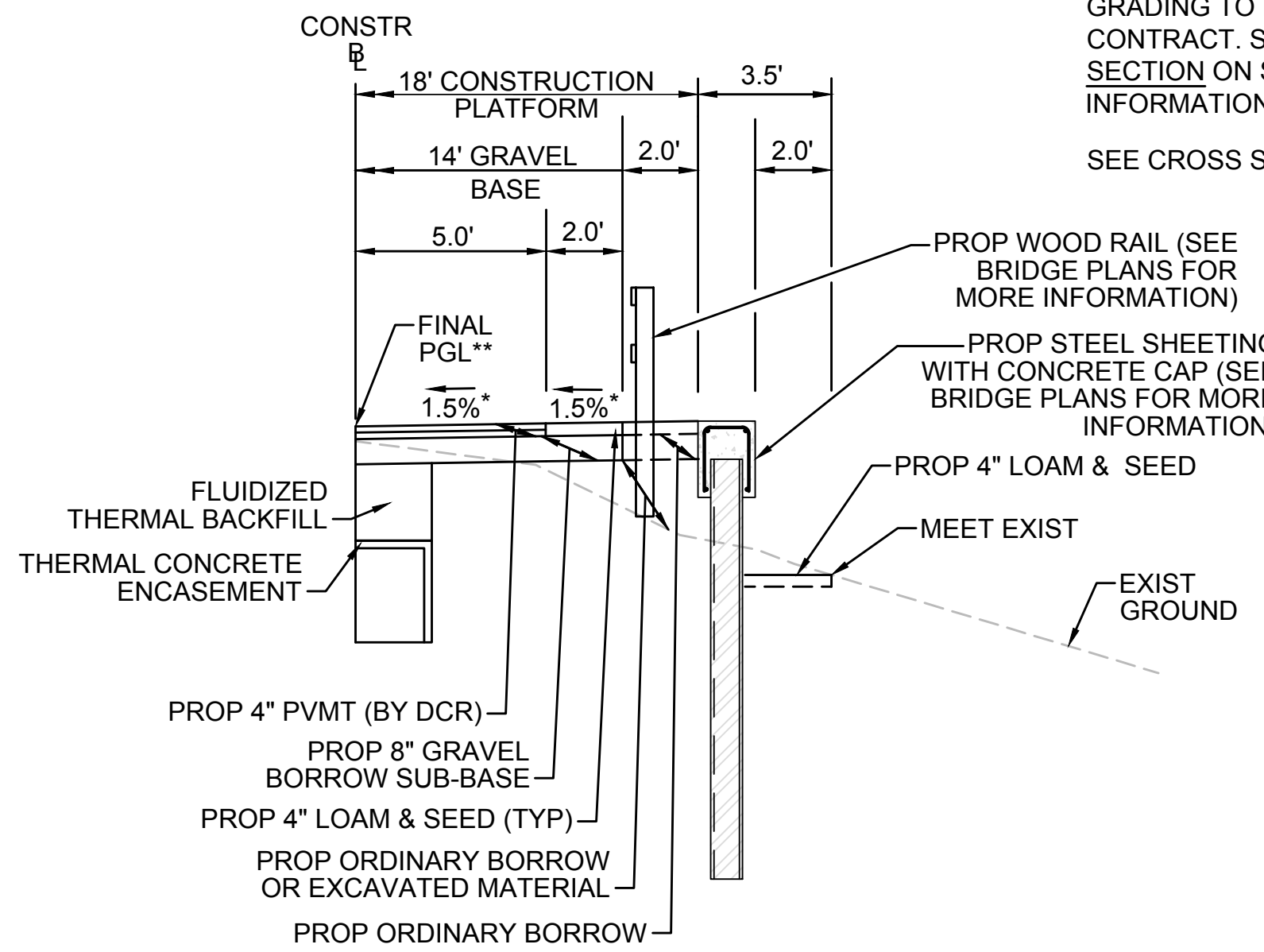
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SHEETING SECTION LT

STA 119+00± TO STA 119+38±, STA 119+52± TO STA 125+00±, STA 148+25± TO STA 148+49±, STA 149+13± TO STA 149+75±, STA 300+50± TO STA 400+07±, STA 400+58± TO STA 401+25±, STA 724+73± TO STA 725+03±, STA 725+59± TO STA 725+96± NTS

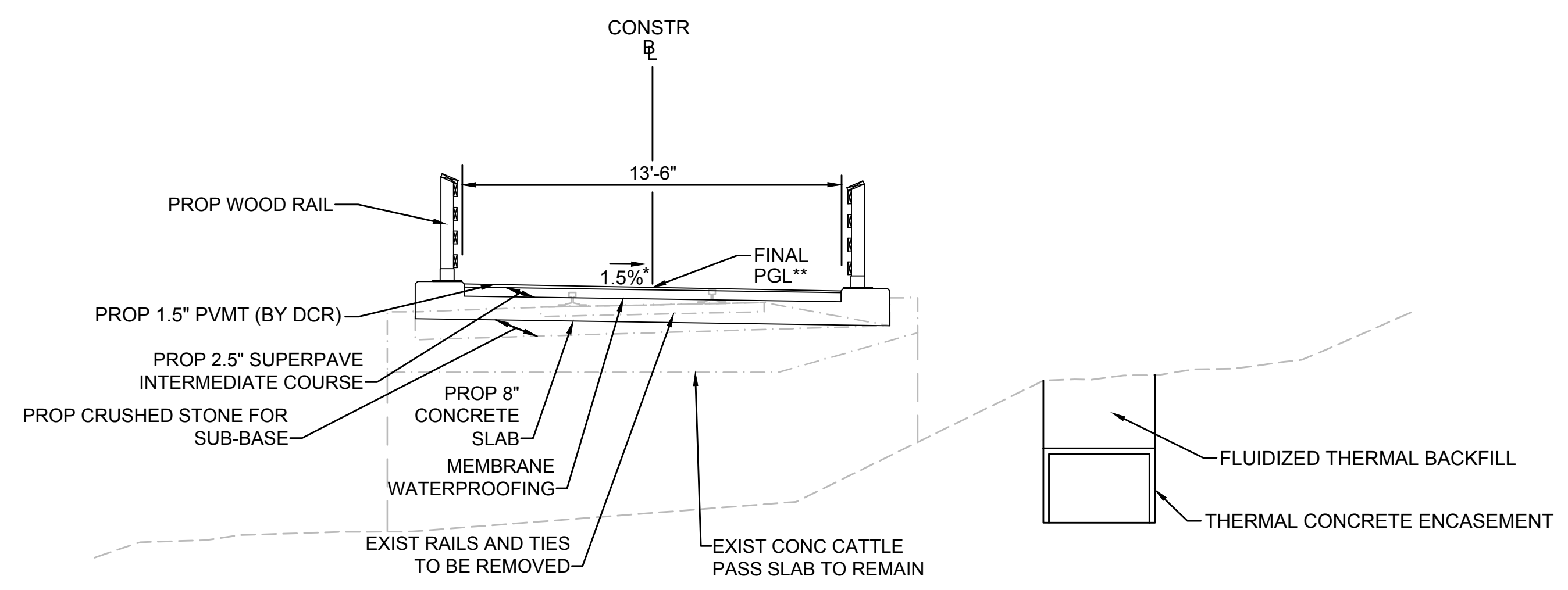
* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 SEE CROSS SECTIONS FOR MORE INFORMATION



SHEETING SECTION RT

STA 148+25± TO STA 148+49±, STA 149+13± TO STA 149+75±, STA 399+91± TO STA 400+07±, STA 400+58± TO STA 401+25±, STA 724+73± TO STA 725+03±, STA 725+59± TO STA 725+96±, STA 731+00± TO STA 734+25± NTS

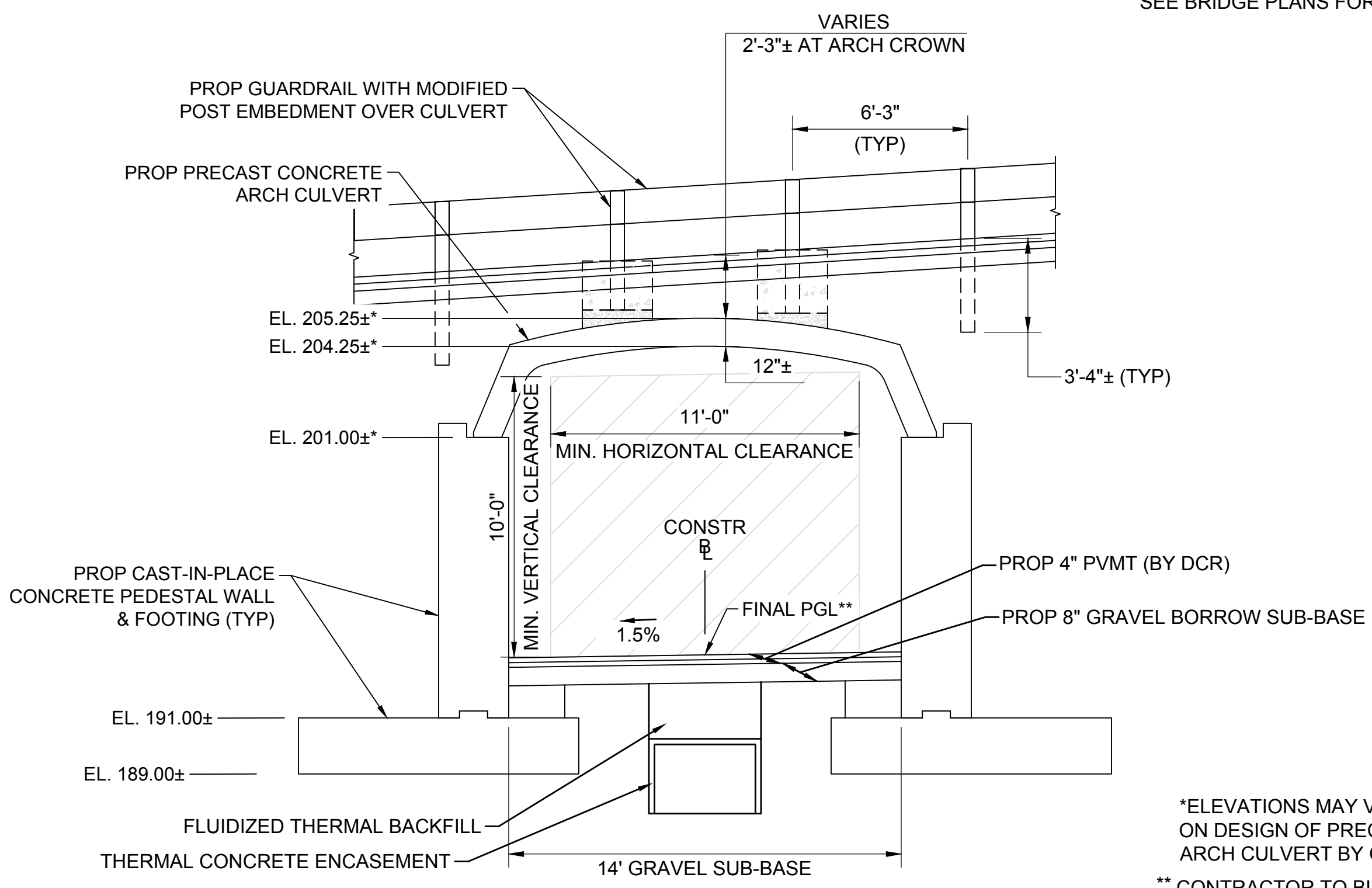
* TOLERANCE FOR CONSTRUCTION ±0.5%



CATTLE CROSSING

STA 119+38± TO STA 119+52± NTS

* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 1.5" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL ON SHEET 158 FOR ADDITIONAL INFORMATION.



CHESTNUT STREET CULVERT

STA 132+44± TO STA 132+84± NTS

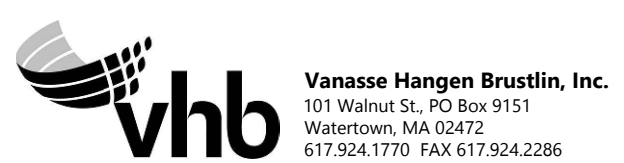
* ELEVATIONS MAY VARY DEPENDING ON DESIGN OF PRECAST CONCRETE ARCH CULVERT BY OTHERS.
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 SEE BRIDGE PLANS FOR MORE INFORMATION

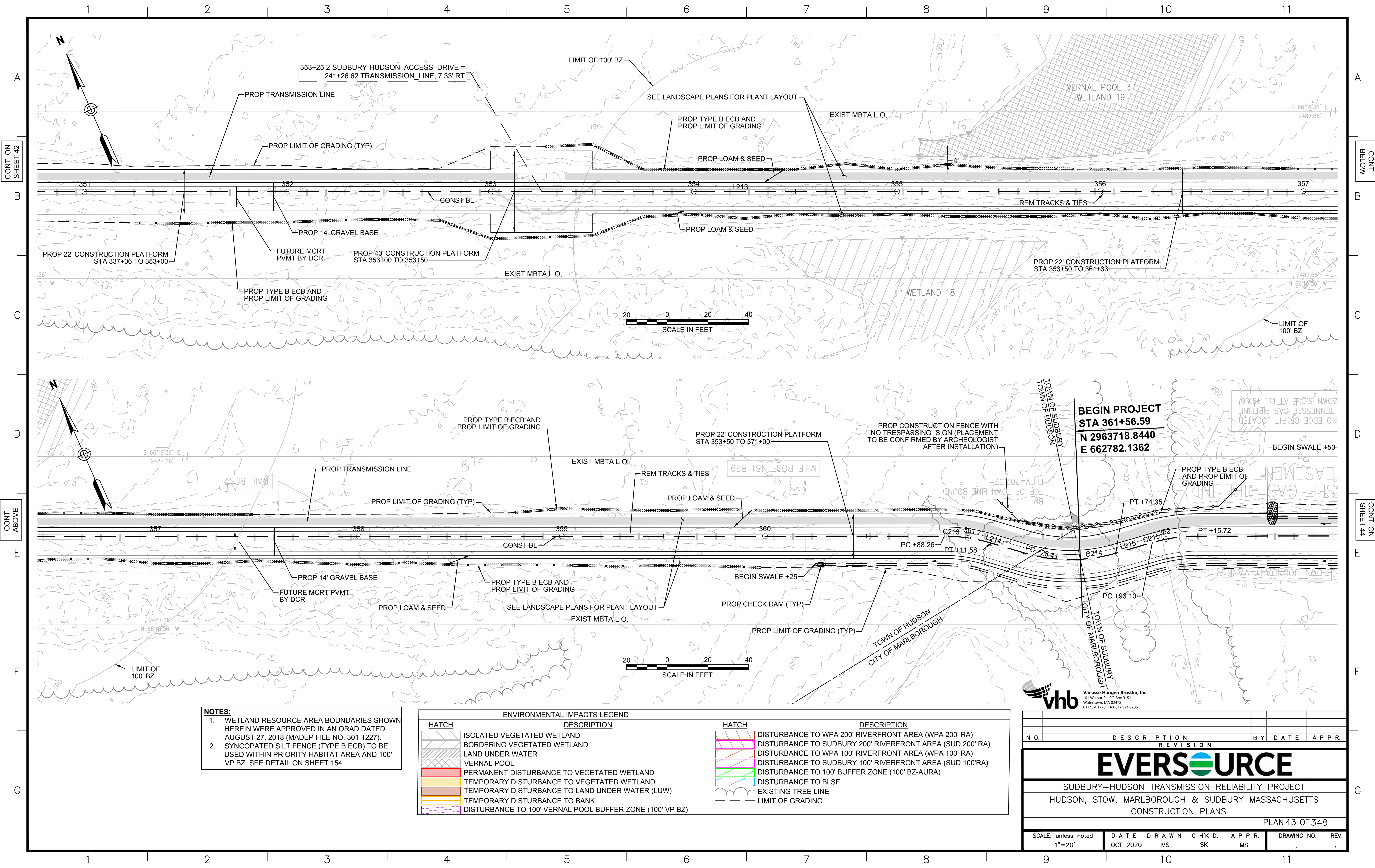
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SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 TYPICAL SECTIONS
 PLAN 22 OF 348

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| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. | REV. |
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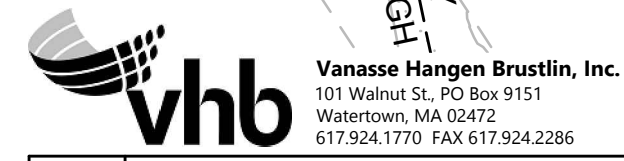




NOTES:

1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| | ISOLATED VEGETATED WETLAND | | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| | BORDERING VEGETATED WETLAND | | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| | LAND UNDER WATER | | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| | VERNAL POOL | | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| | PERMANENT DISTURBANCE TO VEGETATED WETLAND | | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | | DISTURBANCE TO BLSF |
| | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | | EXISTING TREE LINE |
| | TEMPORARY DISTURBANCE TO BANK | | LIMIT OF GRADING |
| | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |



| REVISION | | | |
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| N.O. | DESCRIPTION | BY | DATE |
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CONSTRUCTION PLANS

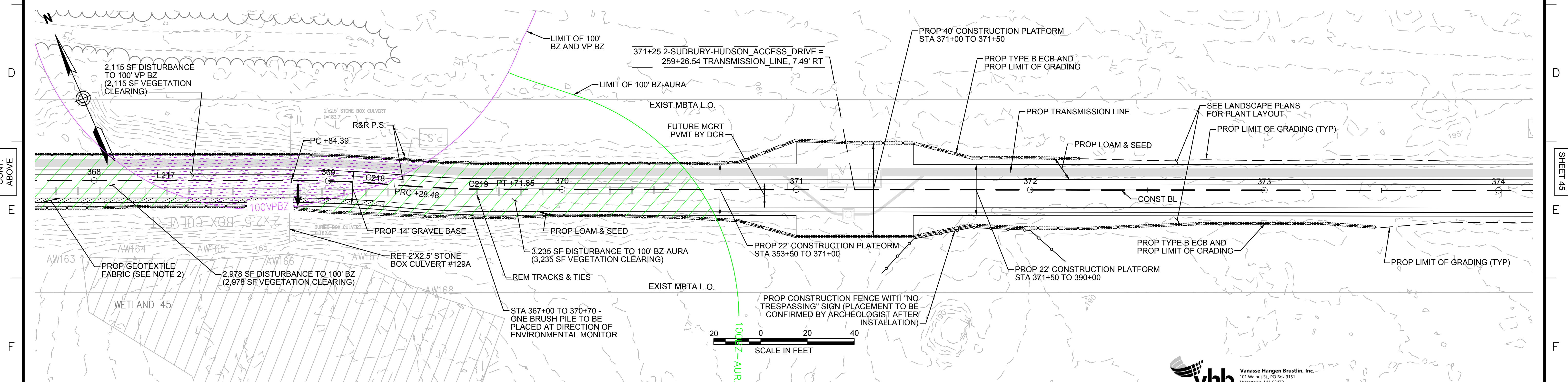
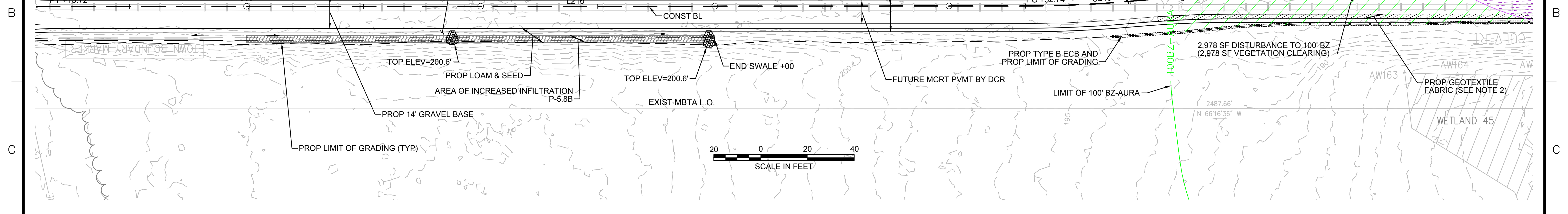
PLAN 43 OF 348

| | | | | | | |
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| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MS | DRAWING NO. | REV. |
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1 2 3 4 5 6 7 8 9 10 11

CONT. ON SHEET 43

CONT. BELOW



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| [Hatch] | ISOLATED VEGETATED WETLAND | [Hatch] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatch] | BORDERING VEGETATED WETLAND | [Hatch] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch] | LAND UNDER WATER | [Hatch] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatch] | VERNAL POOL | [Hatch] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatch] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO BLSF |
| [Hatch] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatch] | EXISTING TREE LINE |
| [Hatch] | TEMPORARY DISTURBANCE TO BANK | [Hatch] | LIMIT OF GRADING |
| [Hatch] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |

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Watertown, MA 02472
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CONSTRUCTION PLANS

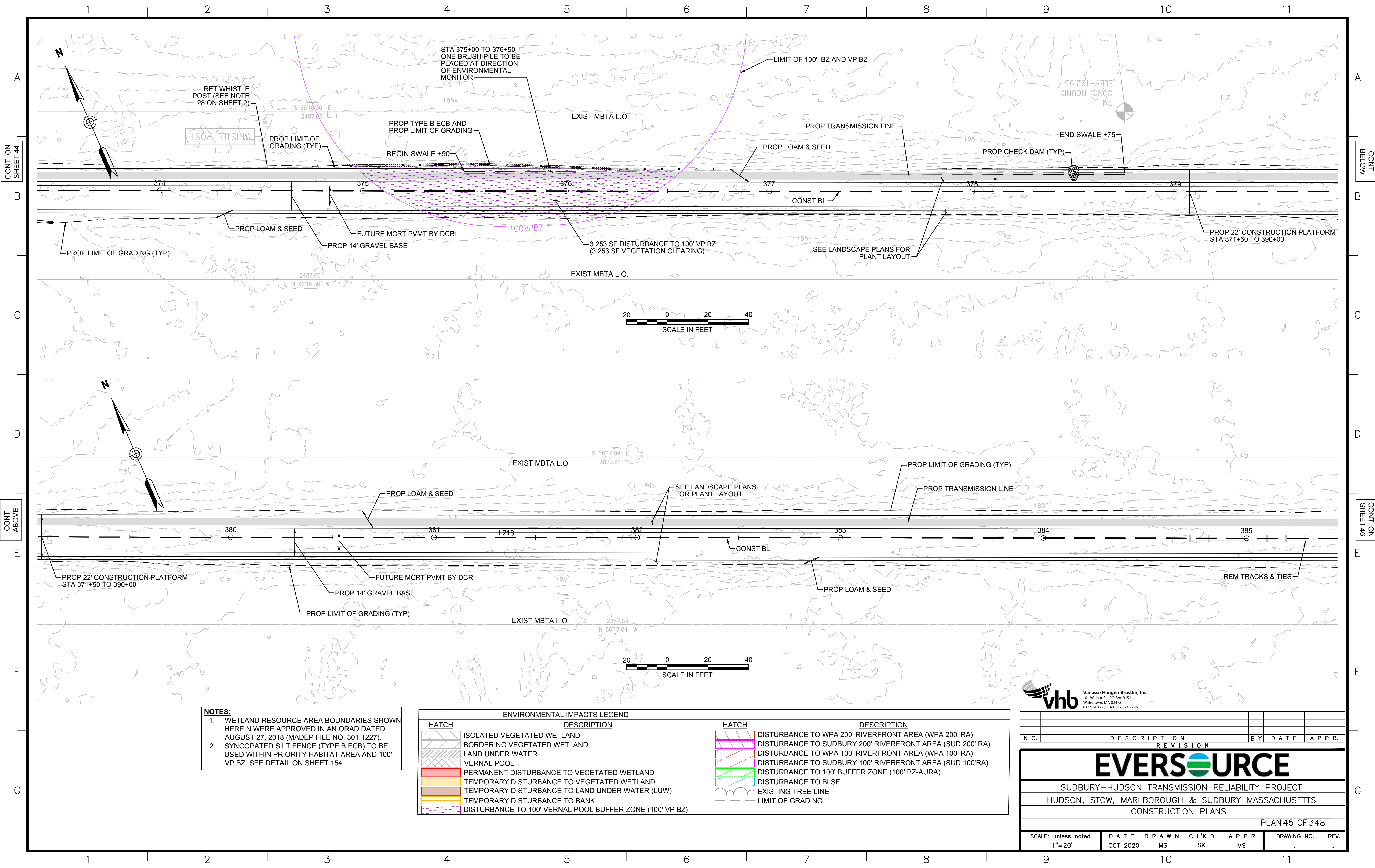
PLAN 44 OF 348

| | | | | | | |
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| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MS | DRAWING NO. | REV. |
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1 2 3 4 5 6 7 8 9 10 11

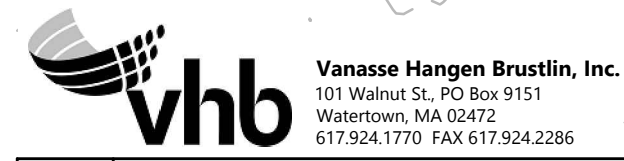
CONT. ABOVE

CONT. ON SHEET 45



NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| [Hatch] | ISOLATED VEGETATED WETLAND | [Hatch] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatch] | BORDERING VEGETATED WETLAND | [Hatch] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch] | LAND UNDER WATER | [Hatch] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatch] | VERNAL POOL | [Hatch] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatch] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO BLSF |
| [Hatch] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatch] | EXISTING TREE LINE |
| [Hatch] | TEMPORARY DISTURBANCE TO BANK | [Hatch] | LIMIT OF GRADING |
| [Hatch] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |



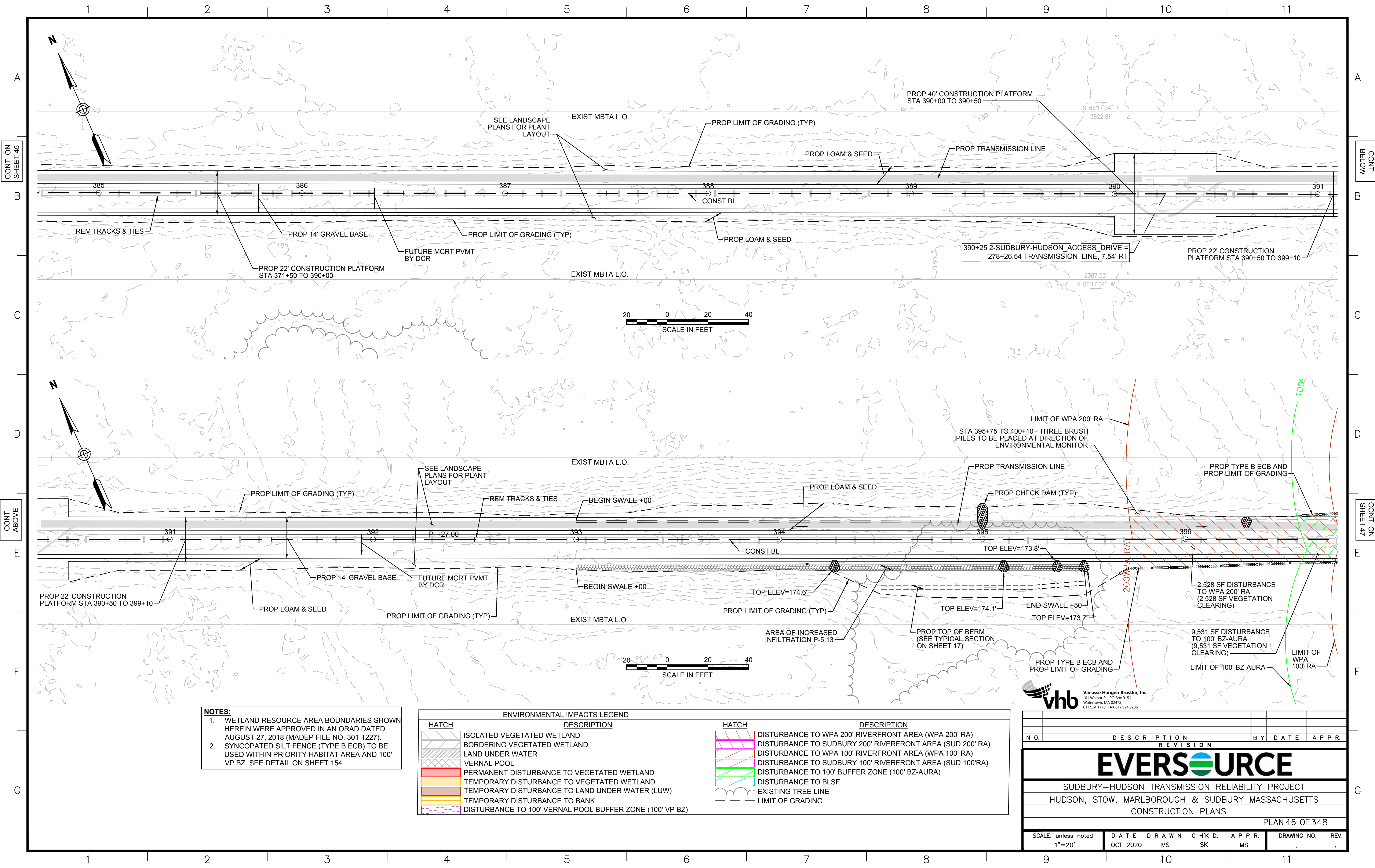
| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CONSTRUCTION PLANS

PLAN 45 OF 348

| | | | | | | |
|-------------------------------|------------------|-------------|----------------|----------------|-------------------|------|
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | C H'K D. SK | A P P R. MS | DRAWING NO. 11 | REV. |
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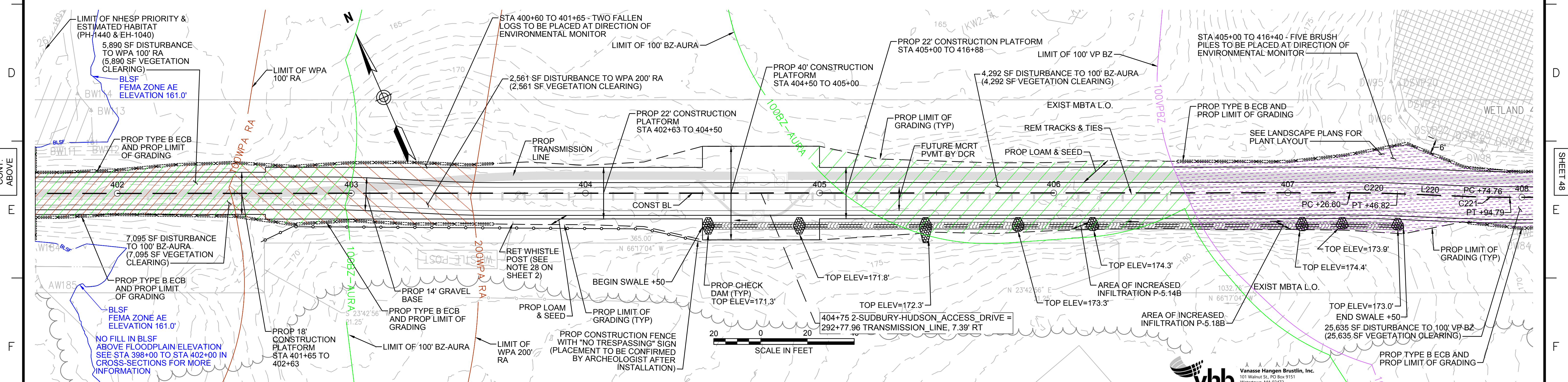
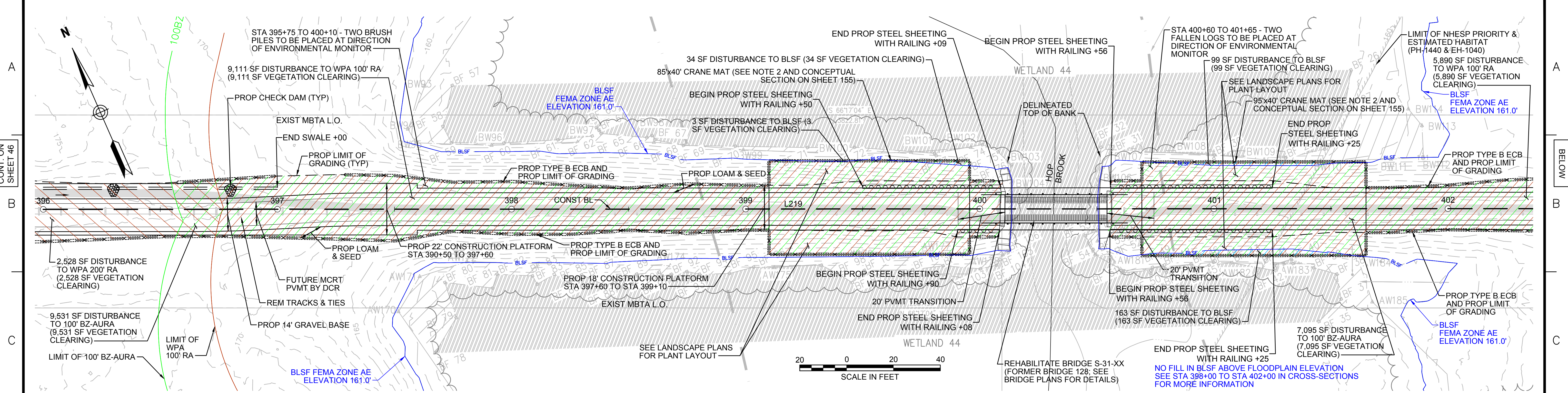
NOTES:

1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
2. SYNCPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| [Hatch] | ISOLATED VEGETATED WETLAND | [Hatch] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatch] | BORDERING VEGETATED WETLAND | [Hatch] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch] | LAND UNDER WATER | [Hatch] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatch] | VERNAL POOL | [Hatch] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatch] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO BLSF |
| [Hatch] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatch] | EXISTING TREE LINE |
| [Hatch] | TEMPORARY DISTURBANCE TO BANK | [Hatch] | LIMIT OF GRADING |
| [Hatch] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |

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 617.254.1770 FAX 617.254.2296

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|---|------------------|-------------|-------------|-------------|-------------|-------|
| REVISION | | | | | | |
| EVERSOURCE | | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | |
| CONSTRUCTION PLANS | | | | | | |
| PLAN 46 OF 348 | | | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D SK | APPR. MS | DRAWING NO. | REV. |



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. MAXIMUM CRANE PAD DIMENSIONS OF 40'x40' ARE ALLOWED AT ANY GIVEN TIME. A LONGER CRANE MAT FOOTPRINT IS SHOWN HERE TO ALLOW THE CRANE MAT CONSTRUCTION OF THE STEEL SHEETING AND BRIDGE.
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

ENVIRONMENTAL IMPACTS LEGEND

| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
|---------------|--|---------------|---|
| [Hatched Box] | ISOLATED VEGETATED WETLAND | [Hatched Box] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatched Box] | BORDERING VEGETATED WETLAND | [Hatched Box] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatched Box] | LAND UNDER WATER | [Hatched Box] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatched Box] | VERNAL POOL | [Hatched Box] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatched Box] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatched Box] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatched Box] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatched Box] | DISTURBANCE TO BLSF |
| [Hatched Box] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatched Box] | EXISTING TREE LINE |
| [Hatched Box] | TEMPORARY DISTURBANCE TO BANK | [Hatched Box] | LIMIT OF GRADING |
| [Hatched Box] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |

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| N.O. | DESCRIPTION | REVISION | BY | DATE | APPR. |
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CONSTRUCTION PLANS

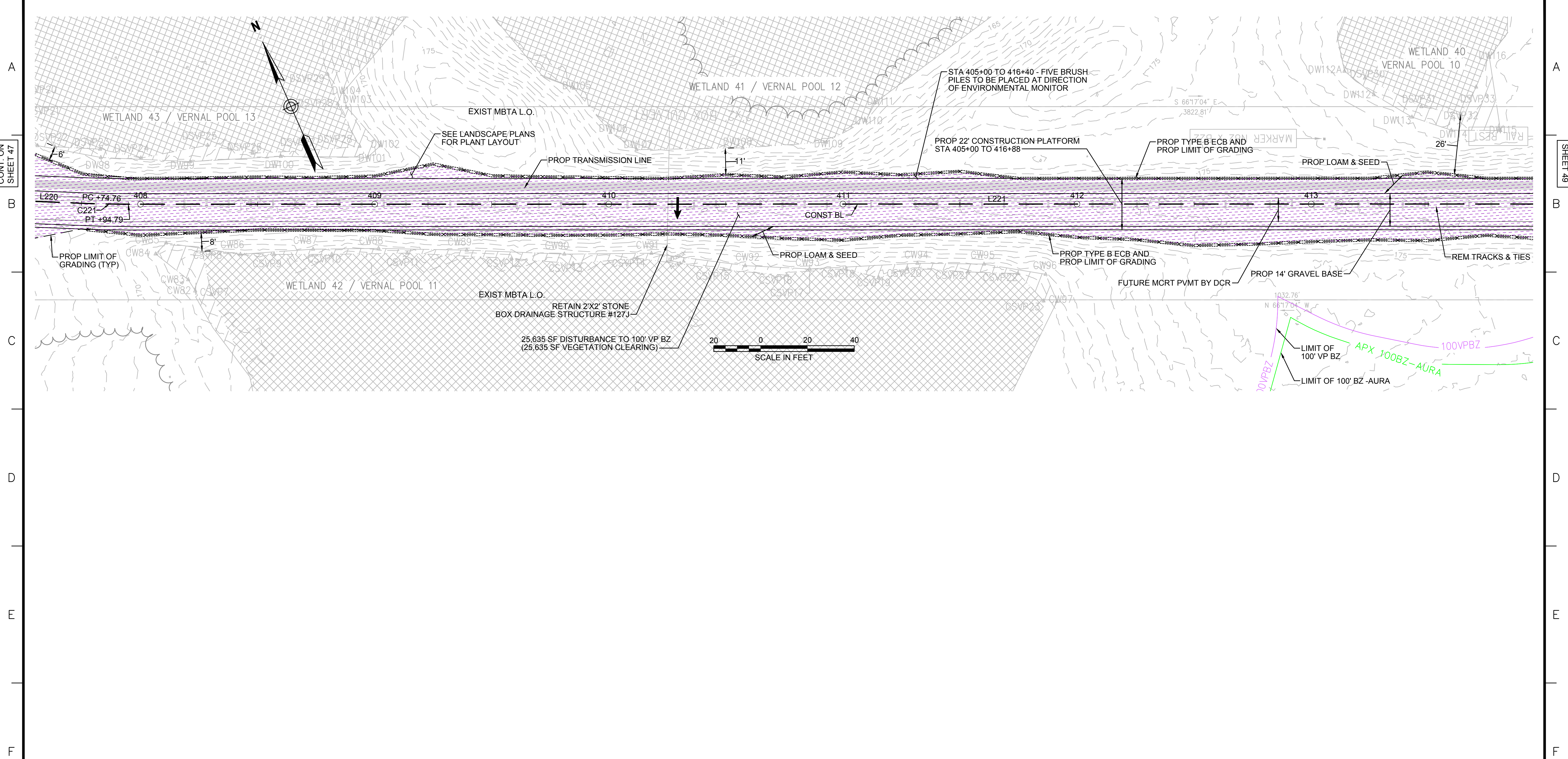
PLAN 47 OF 348

| | | | | | |
|-------------------------------|------------------|-------------|--------------|----------------|---------------------|
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | A.P.P.R. MS | DRAWING NO. REV. |
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1 2 3 4 5 6 7 8 9 10 11

CONT. ON SHEET 47

CONT. ON SHEET 49



NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| [Hatch] | ISOLATED VEGETATED WETLAND | [Hatch] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatch] | BORDERING VEGETATED WETLAND | [Hatch] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch] | LAND UNDER WATER | [Hatch] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatch] | VERNAL POOL | [Hatch] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatch] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO BLSF |
| [Hatch] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatch] | EXISTING TREE LINE |
| [Hatch] | TEMPORARY DISTURBANCE TO BANK | [Hatch] | LIMIT OF GRADING |
| [Hatch] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |



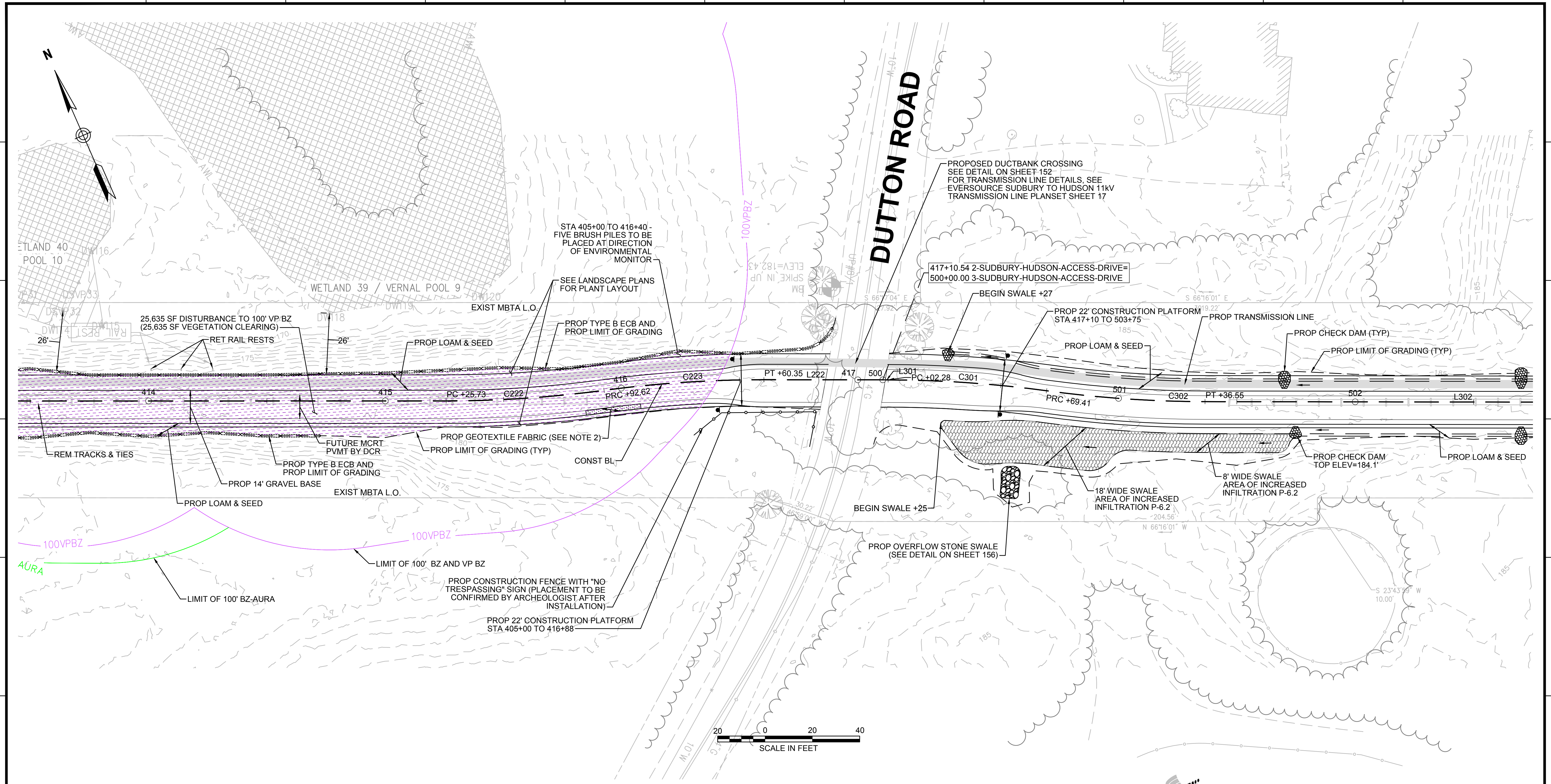
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| NO. | | | | DESCRIPTION | | | | BY DATE | | APPR. | | | | |
| EVERSOURCE | | | | | | | | | | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | | | | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | | | | | | | | | |
| CONSTRUCTION PLANS | | | | | | | | | | | | | | |
| PLAN 48 OF 348 | | | | | | | | | | | | | | |
| SCALE: unless noted 1"=20' | | | DATE OCT 2020 | | | DRAWN MS | | | CHK'D. SK | | | APPR. MS | | |
| DRAWING NO. | | | | | | REV. | | | | | | | | |

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B
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G

A
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C
D
E
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G



CONT. ON SHEET 48

CONT. ON SHEET 50

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| HATCH | DESCRIPTION |
|-------------------|--|
| [Hatched pattern] | ISOLATED VEGETATED WETLAND |
| [Hatched pattern] | BORDERING VEGETATED WETLAND |
| [Hatched pattern] | LAND UNDER WATER |
| [Hatched pattern] | VERNAL POOL |
| [Hatched pattern] | PERMANENT DISTURBANCE TO VEGETATED WETLAND |
| [Hatched pattern] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND |
| [Hatched pattern] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) |
| [Hatched pattern] | TEMPORARY DISTURBANCE TO BANK |
| [Hatched pattern] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |

| HATCH | DESCRIPTION |
|-------------------|---|
| [Hatched pattern] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatched pattern] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatched pattern] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatched pattern] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatched pattern] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatched pattern] | DISTURBANCE TO BLSF |
| [Hatched pattern] | EXISTING TREE LINE |
| [Hatched pattern] | LIMIT OF GRADING |



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION PLANS | | | | |
| PLAN 49 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MS |
| DRAWING NO. | REV. | | | |

1 2 3 4 5 6 7 8 9 10 11

1 2 3 4 5 6 7 8 9 10 11

CONT. ON SHEET 49

CONT. BELOW

B

B

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D

D

CONT. ABOVE

CONT. ON SHEET 51

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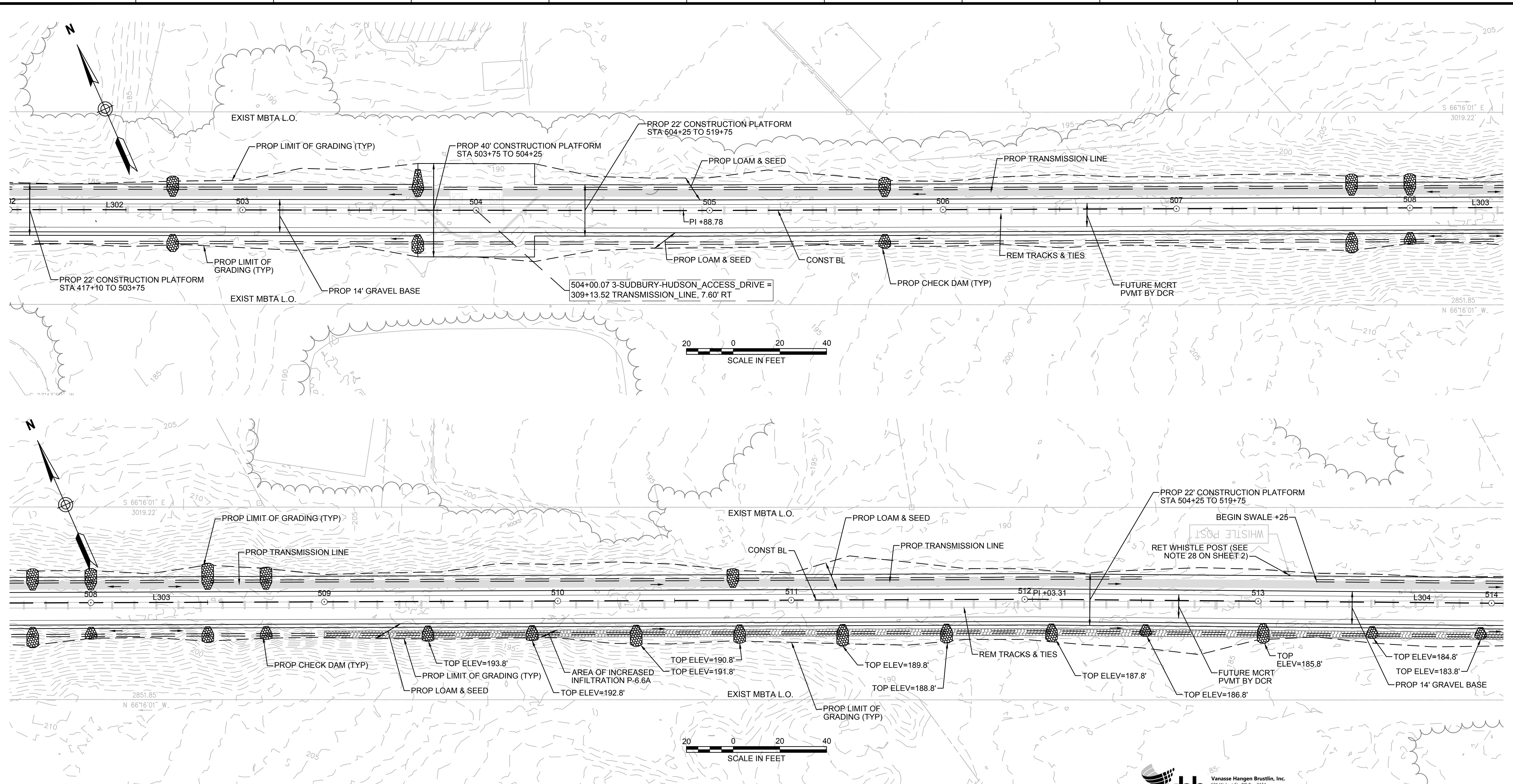
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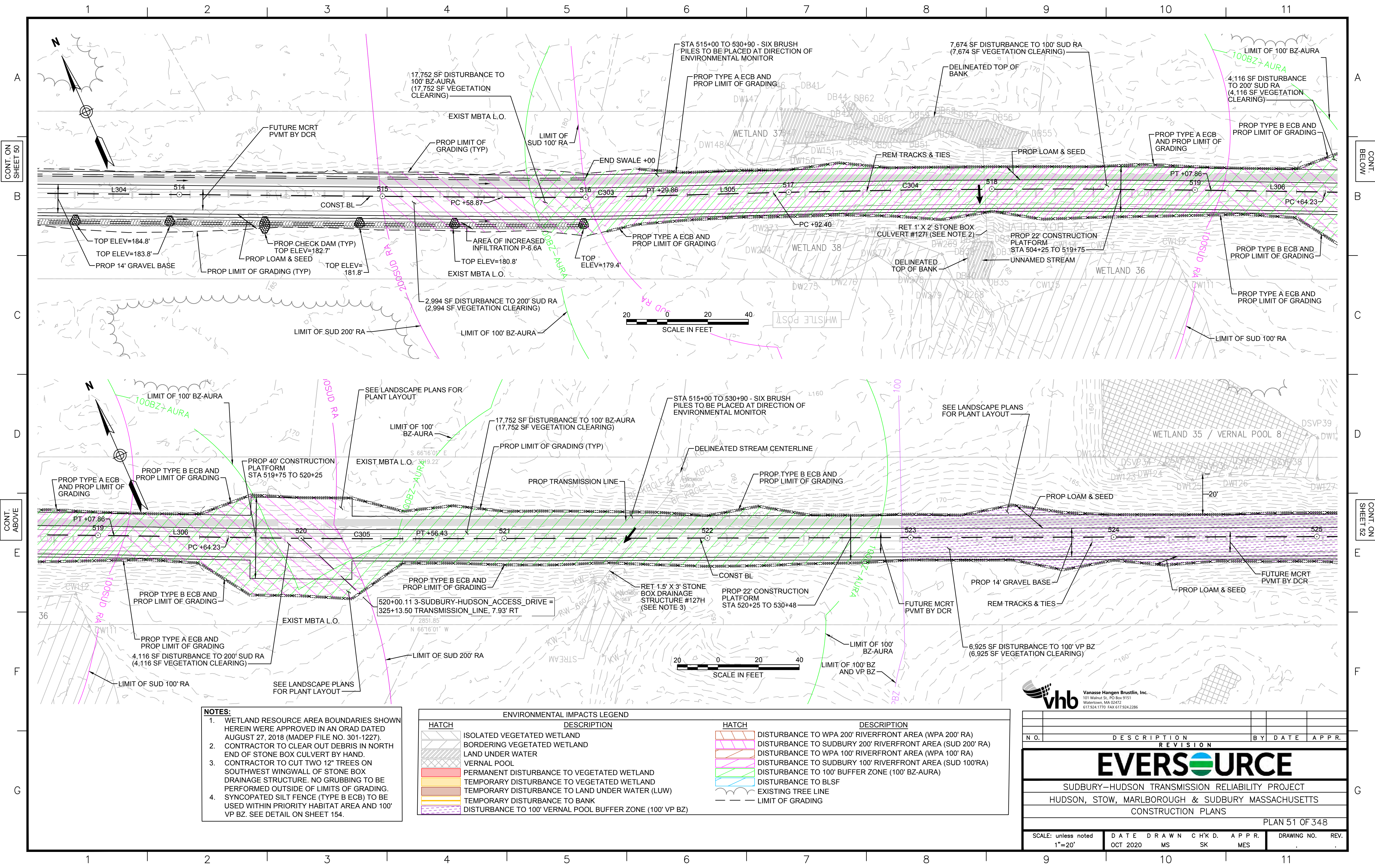


NOTE:
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| | ISOLATED VEGETATED WETLAND | | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| | BORDERING VEGETATED WETLAND | | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| | LAND UNDER WATER | | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| | VERNAL POOL | | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| | PERMANENT DISTURBANCE TO VEGETATED WETLAND | | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | | DISTURBANCE TO BLSF |
| | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | | EXISTING TREE LINE |
| | TEMPORARY DISTURBANCE TO BANK | | LIMIT OF GRADING |
| | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION PLANS | | | | |
| PLAN 50 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | | | | REV. |



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. CONTRACTOR TO CLEAR OUT DEBRIS IN NORTH END OF STONE BOX CULVERT BY HAND.
 3. CONTRACTOR TO CUT TWO 12" TREES ON SOUTHWEST WINGWALL OF STONE BOX DRAINAGE STRUCTURE. NO GRUBBING TO BE PERFORMED OUTSIDE OF LIMITS OF GRADING.
 4. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| [Hatched Box] | ISOLATED VEGETATED WETLAND | [Hatched Box] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatched Box] | BORDERING VEGETATED WETLAND | [Hatched Box] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatched Box] | LAND UNDER WATER | [Hatched Box] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatched Box] | VERNAL POOL | [Hatched Box] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100'RA) |
| [Hatched Box] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatched Box] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatched Box] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatched Box] | DISTURBANCE TO BLSF |
| [Hatched Box] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatched Box] | EXISTING TREE LINE |
| [Hatched Box] | TEMPORARY DISTURBANCE TO BANK | [Hatched Box] | LIMIT OF GRADING |
| [Hatched Box] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |

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| N.O. | DESCRIPTION | REVISION | BY | DATE | APPR. |
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CONSTRUCTION PLANS

PLAN 51 OF 348

| | | | | | | |
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| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | A.P.P.R. MES | DRAWING NO. | REV. |
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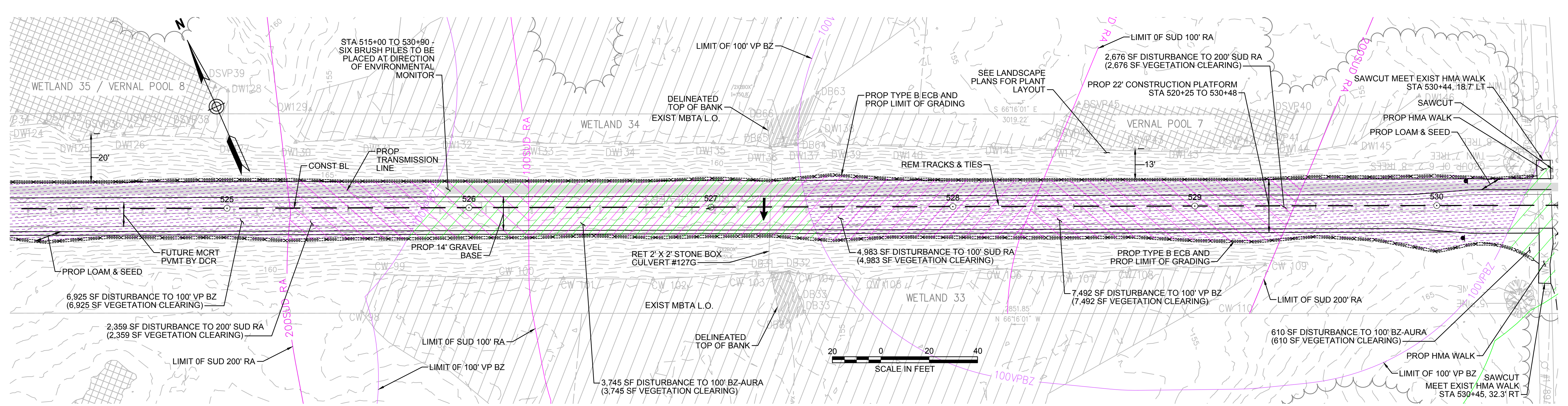
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CONT. ON SHEET 51

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NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. SYNCOATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| [Hatch] | ISOLATED VEGETATED WETLAND | [Hatch] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatch] | BORDERING VEGETATED WETLAND | [Hatch] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch] | LAND UNDER WATER | [Hatch] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatch] | VERNAL POOL | [Hatch] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatch] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO BLSF |
| [Hatch] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatch] | EXISTING TREE LINE |
| [Hatch] | TEMPORARY DISTURBANCE TO BANK | [Hatch] | LIMIT OF GRADING |
| [Hatch] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |

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| | | | | |

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CONSTRUCTION PLANS

PLAN 52 OF 348

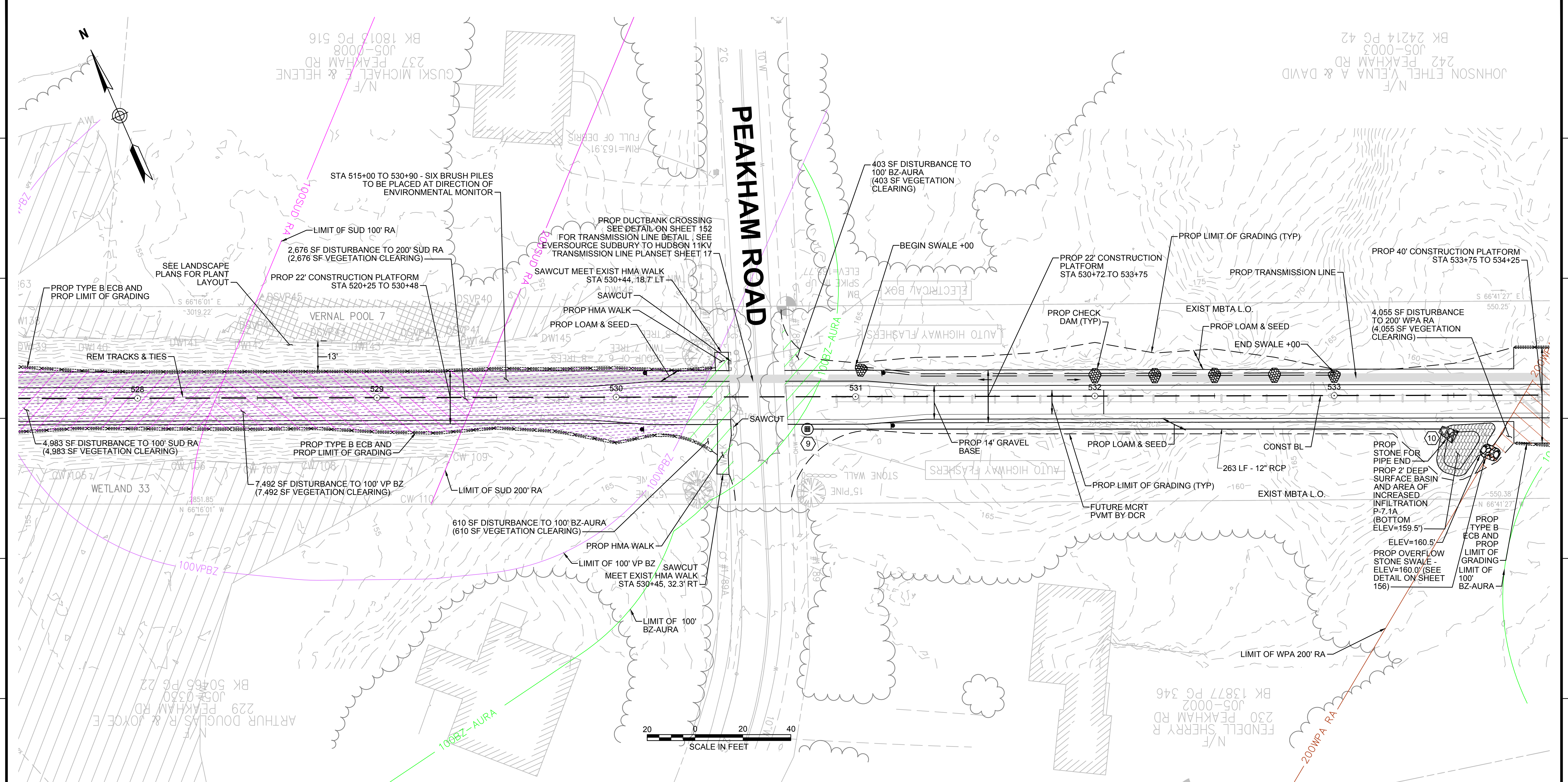
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| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MS | DRAWING NO. | REV. |
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CONT. ON SHEET 52

CONT. ON SHEET 54



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. SYNCOATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | DESCRIPTION | |
|------------------------------|--|-------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| | ISOLATED VEGETATED WETLAND | | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| | BORDERING VEGETATED WETLAND | | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| | LAND UNDER WATER | | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| | VERNAL POOL | | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| | PERMANENT DISTURBANCE TO VEGETATED WETLAND | | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | | DISTURBANCE TO BLSF |
| | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | | EXISTING TREE LINE |
| | TEMPORARY DISTURBANCE TO BANK | | LIMIT OF GRADING |
| | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |

| NO. | TYPE | STATION | RIM ELEV. | INV. IN | INV. OUT | REMARKS |
|-----|------------|----------------------|-----------|-------------|----------|--------------------------------------|
| 9 | SHALLOW CB | STA 530+80, 10.4' RT | 164.85 | | 162.00' | SEE CONSTRUCTION DETAIL ON SHEET 156 |
| 10 | FES | STA 533+46, 14.9' RT | 161.68 | 160.50' (9) | | |



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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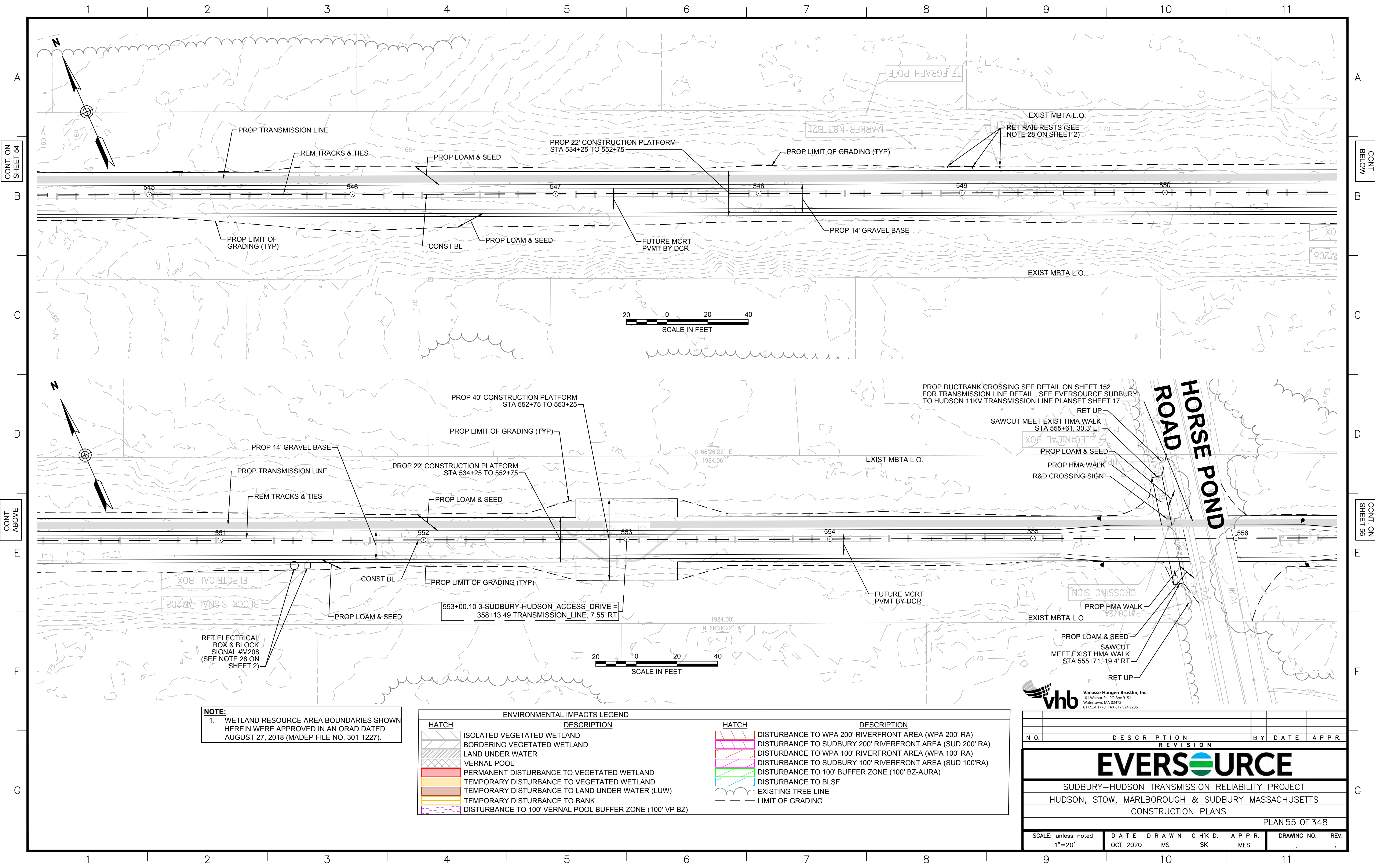
EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CONSTRUCTION PLANS

PLAN 53 OF 348

| | | | | | | |
|-------------------------------|------------------|-------------|--------------|--------------|-------------|------|
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. | REV. |
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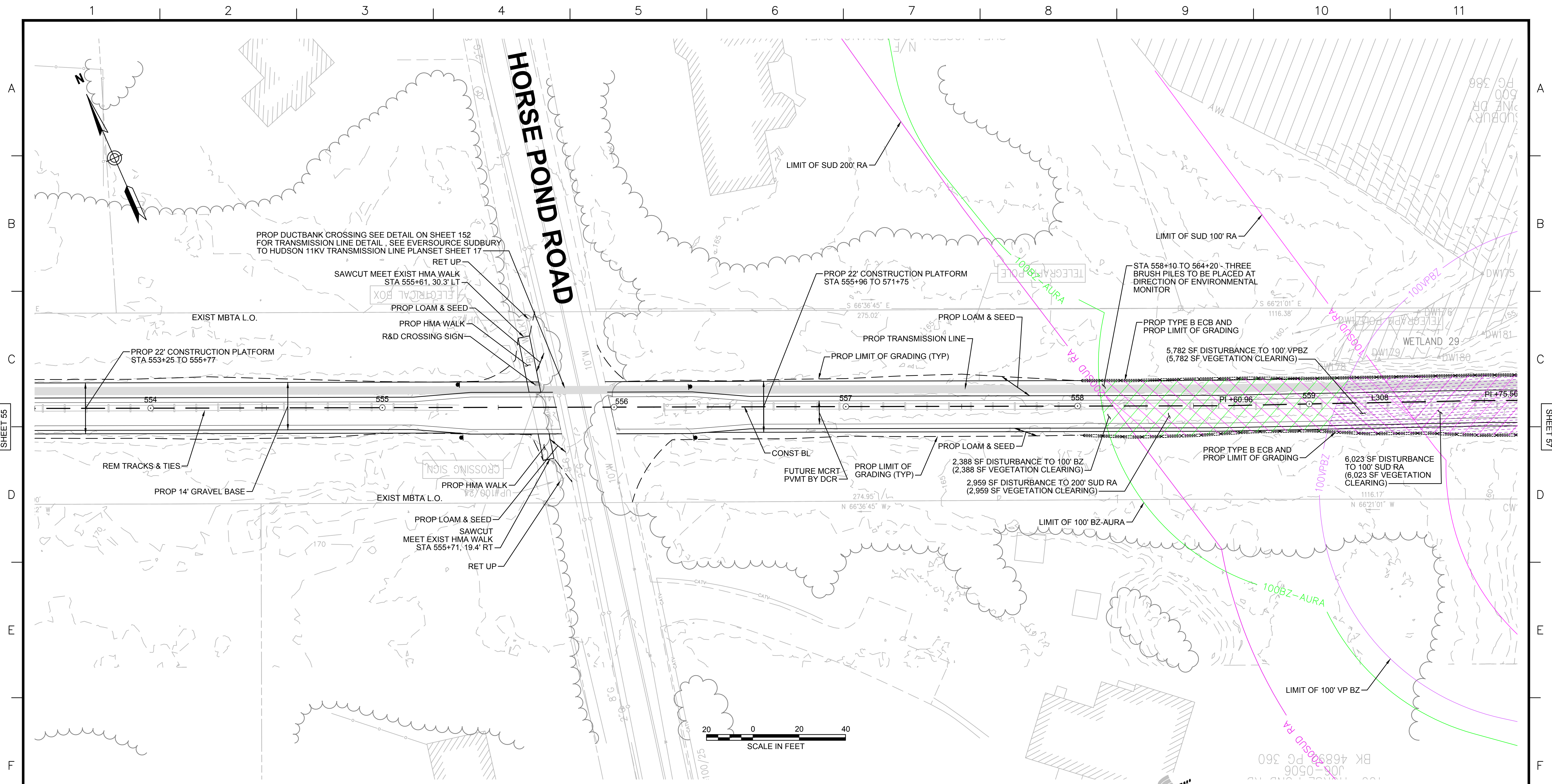
NOTE:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| | ISOLATED VEGETATED WETLAND | | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| | BORDERING VEGETATED WETLAND | | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| | LAND UNDER WATER | | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| | VERNAL POOL | | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| | PERMANENT DISTURBANCE TO VEGETATED WETLAND | | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | | DISTURBANCE TO BLSF |
| | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | | EXISTING TREE LINE |
| | TEMPORARY DISTURBANCE TO BANK | | LIMIT OF GRADING |
| | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |

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| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION PLANS | | | | |
| PLAN 55 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

HORSE POND ROAD



CONT. ON SHEET 55

CONT. ON SHEET 57



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| [Hatch] | ISOLATED VEGETATED WETLAND | [Hatch] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatch] | BORDERING VEGETATED WETLAND | [Hatch] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch] | LAND UNDER WATER | [Hatch] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatch] | VERNAL POOL | [Hatch] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100'RA) |
| [Hatch] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatch] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO BLSF |
| [Hatch] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatch] | EXISTING TREE LINE |
| [Hatch] | TEMPORARY DISTURBANCE TO BANK | [Hatch] | LIMIT OF GRADING |
| [Hatch] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |

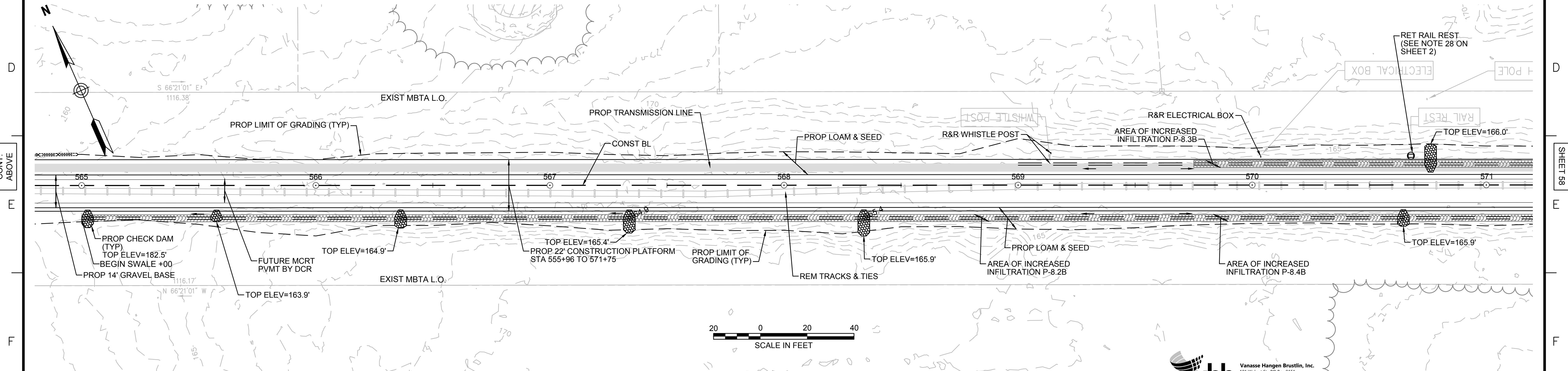
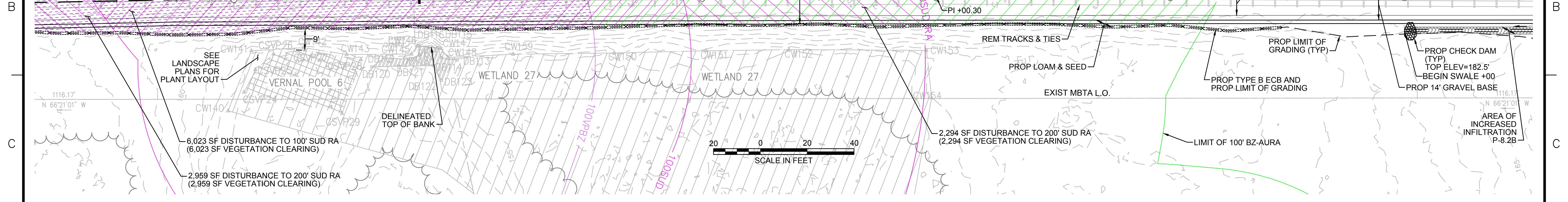


| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION PLANS | | | | |
| PLAN 56 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

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CONT. ON SHEET 56

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NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. SYNCPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| | ISOLATED VEGETATED WETLAND | | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| | BORDERING VEGETATED WETLAND | | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| | LAND UNDER WATER | | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| | VERNAL POOL | | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| | PERMANENT DISTURBANCE TO VEGETATED WETLAND | | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | | DISTURBANCE TO BLSF |
| | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | | EXISTING TREE LINE |
| | TEMPORARY DISTURBANCE TO BANK | | LIMIT OF GRADING |
| | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |

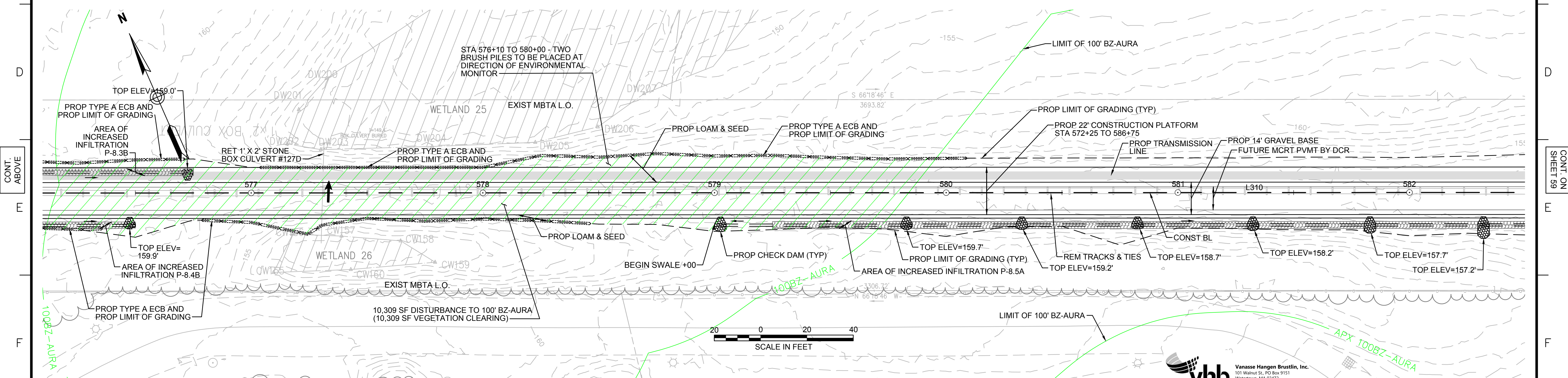
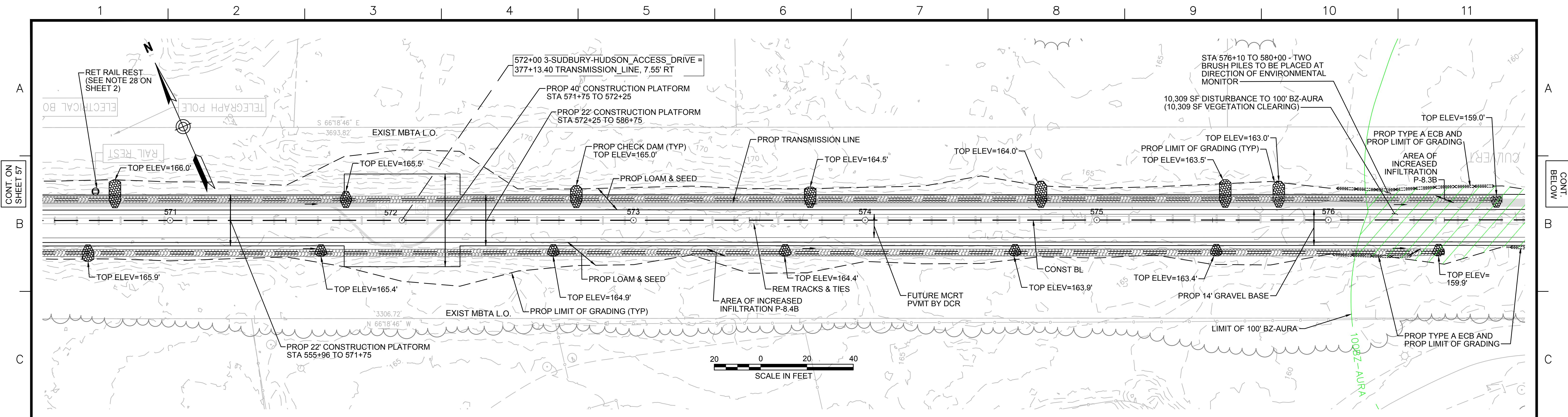


| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION PLANS | | | | |
| PLAN 57 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
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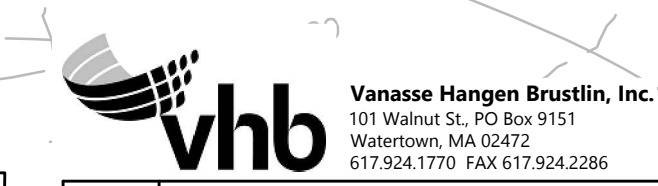
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NOTE:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).

| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
|---------|--|---------|---|
| [Hatch] | ISOLATED VEGETATED WETLAND | [Hatch] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatch] | BORDERING VEGETATED WETLAND | [Hatch] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch] | LAND UNDER WATER | [Hatch] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatch] | VERNAL POOL | [Hatch] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatch] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO BLSF |
| [Hatch] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatch] | EXISTING TREE LINE |
| [Hatch] | TEMPORARY DISTURBANCE TO BANK | [Hatch] | LIMIT OF GRADING |
| [Hatch] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |



| N.O. | DESCRIPTION | REVISION | BY | DATE | APPR. |
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CONSTRUCTION PLANS

PLAN 58 OF 348

| | | | | | | |
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| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MS | DRAWING NO. | REV. |
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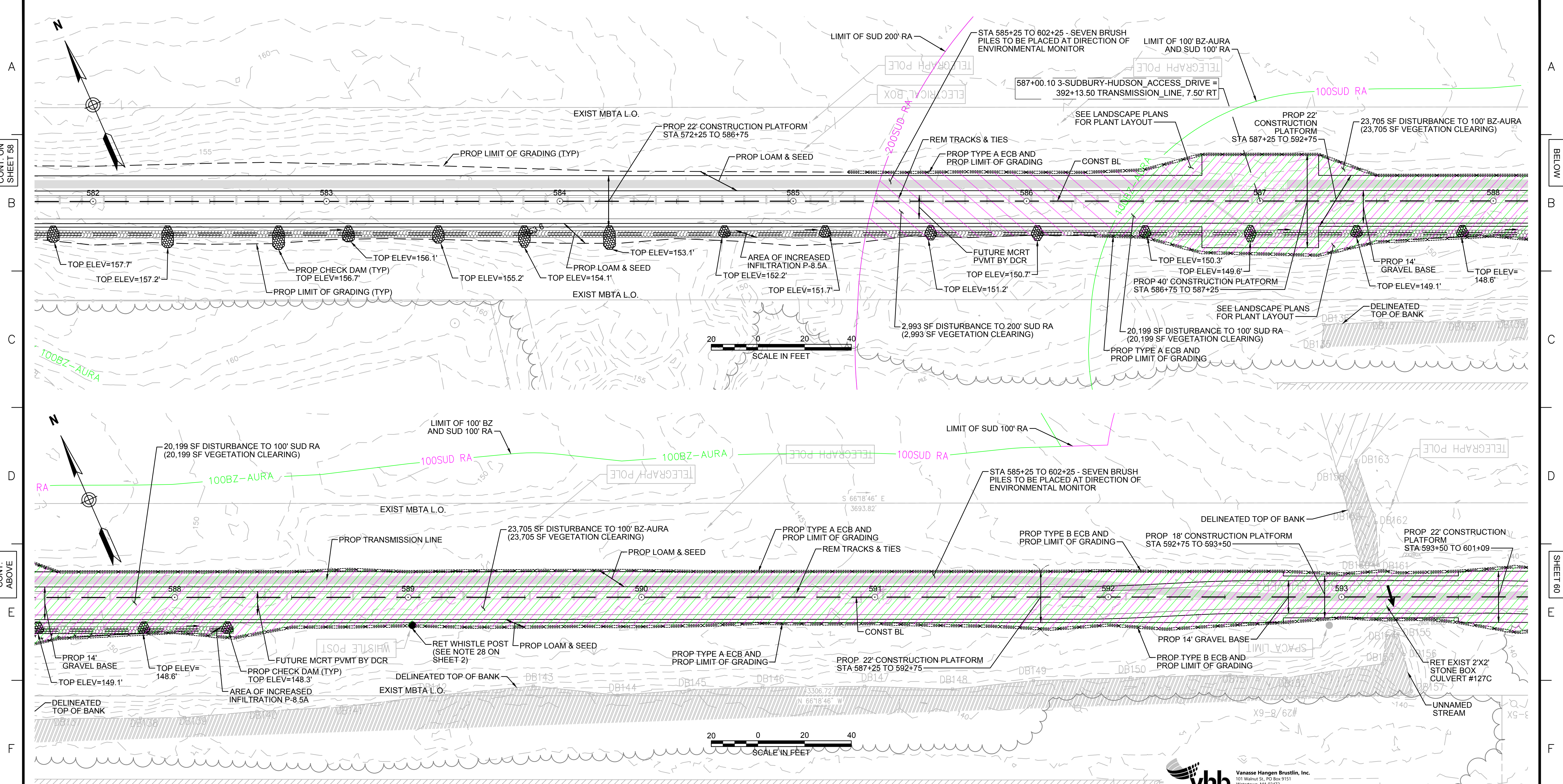
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NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| [Hatch] | ISOLATED VEGETATED WETLAND | [Hatch] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatch] | BORDERING VEGETATED WETLAND | [Hatch] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch] | LAND UNDER WATER | [Hatch] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatch] | VERNAL POOL | [Hatch] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatch] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO BLSF |
| [Hatch] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatch] | EXISTING TREE LINE |
| [Hatch] | TEMPORARY DISTURBANCE TO BANK | [Hatch] | LIMIT OF GRADING |
| [Hatch] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |

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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CONSTRUCTION PLANS

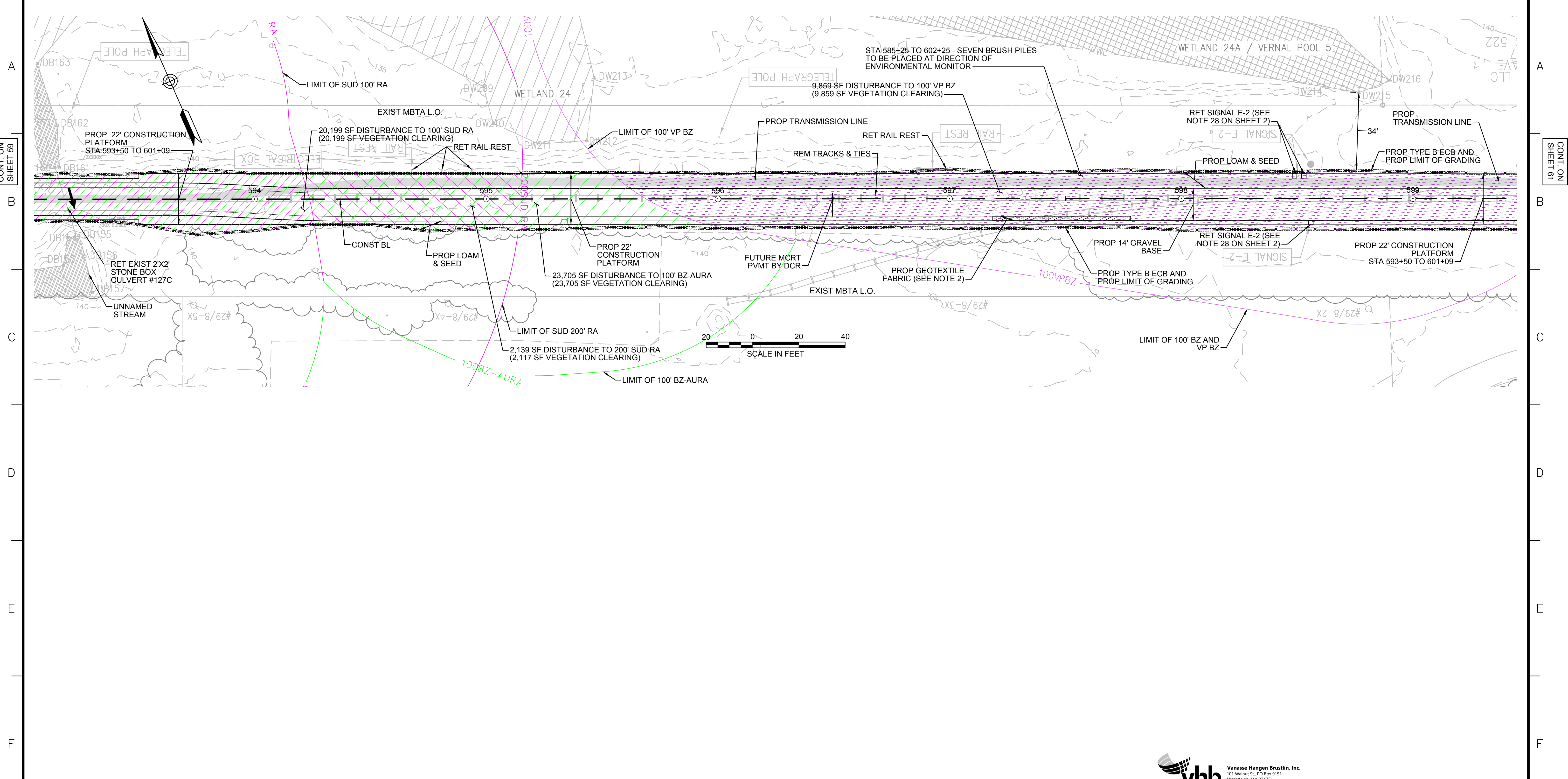
PLAN 59 OF 348

| | | | | | | |
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| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | A.P.P.R. MES | DRAWING NO. | REV. |
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CONT. ON SHEET 59

CONT. ON SHEET 61



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
 3. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| | ISOLATED VEGETATED WETLAND | | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| | BORDERING VEGETATED WETLAND | | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| | LAND UNDER WATER | | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| | VERNAL POOL | | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| | PERMANENT DISTURBANCE TO VEGETATED WETLAND | | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | | DISTURBANCE TO BLSF |
| | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | | EXISTING TREE LINE |
| | TEMPORARY DISTURBANCE TO BANK | | LIMIT OF GRADING |
| | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |



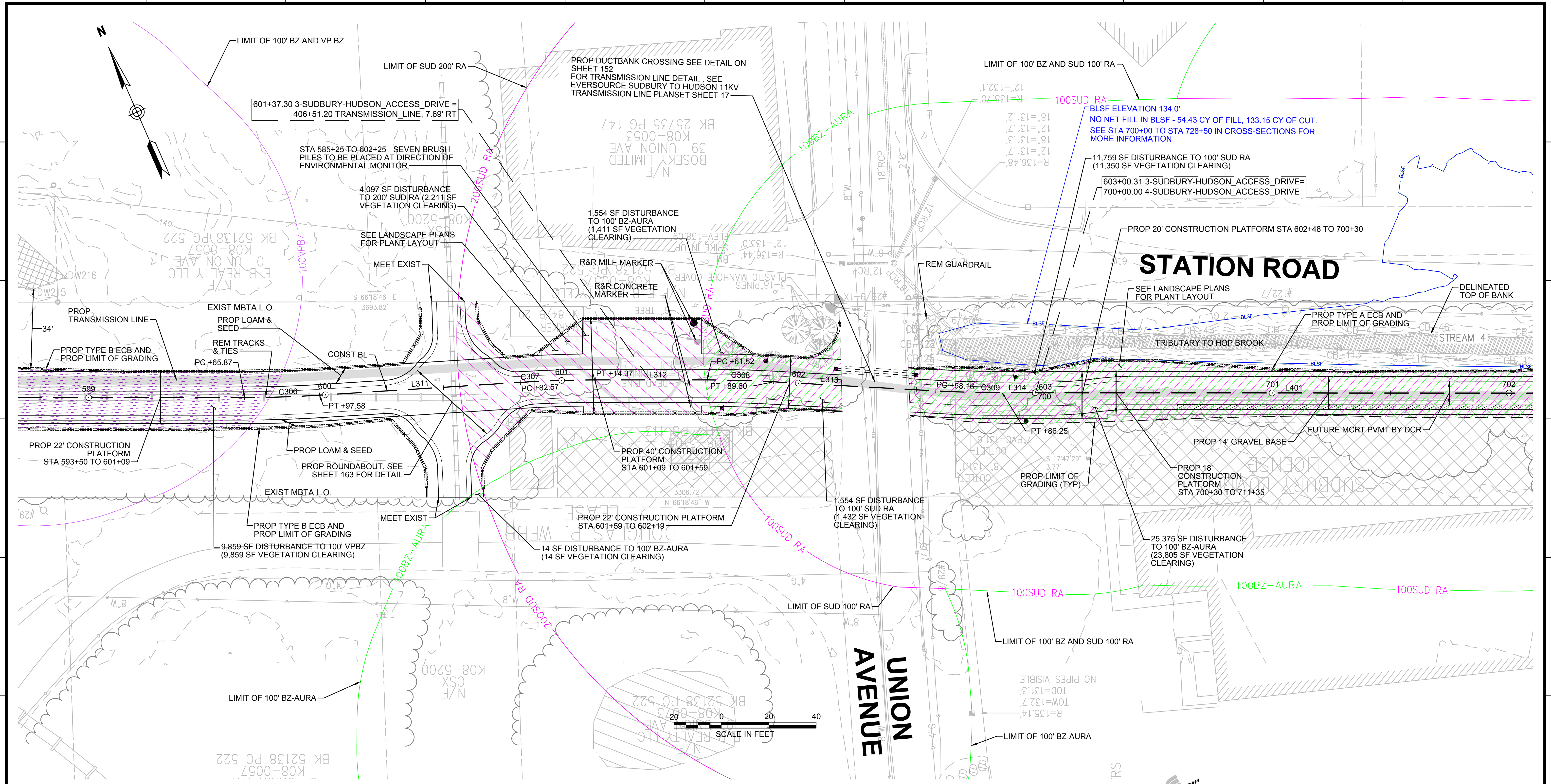
| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION PLANS | | | | |
| PLAN 60 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

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- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227). CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|---|
| HATCH | DESCRIPTION |
| | ISOLATED VEGETATED WETLAND |
| | BORDERING VEGETATED WETLAND |
| | LAND UNDER WATER |
| | VERNAL POOL |
| | PERMANENT DISTURBANCE TO VEGETATED WETLAND |
| | TEMPORARY DISTURBANCE TO VEGETATED WETLAND |
| | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) |
| | TEMPORARY DISTURBANCE TO BANK |
| | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |
| HATCH | DESCRIPTION |
| | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| | DISTURBANCE TO BLSF |
| | EXISTING TREE LINE |
| | LIMIT OF GRADING |

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| N.O. | DESCRIPTION | BY | DATE | APPR. |
|------|-------------|----|------|-------|
| | | | | |

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CONSTRUCTION PLANS

PLAN 61 OF 348

| | | | | | | |
|-------------------------------|------------------|-------------|--------------|--------------|-------------|------|
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. | REV. |
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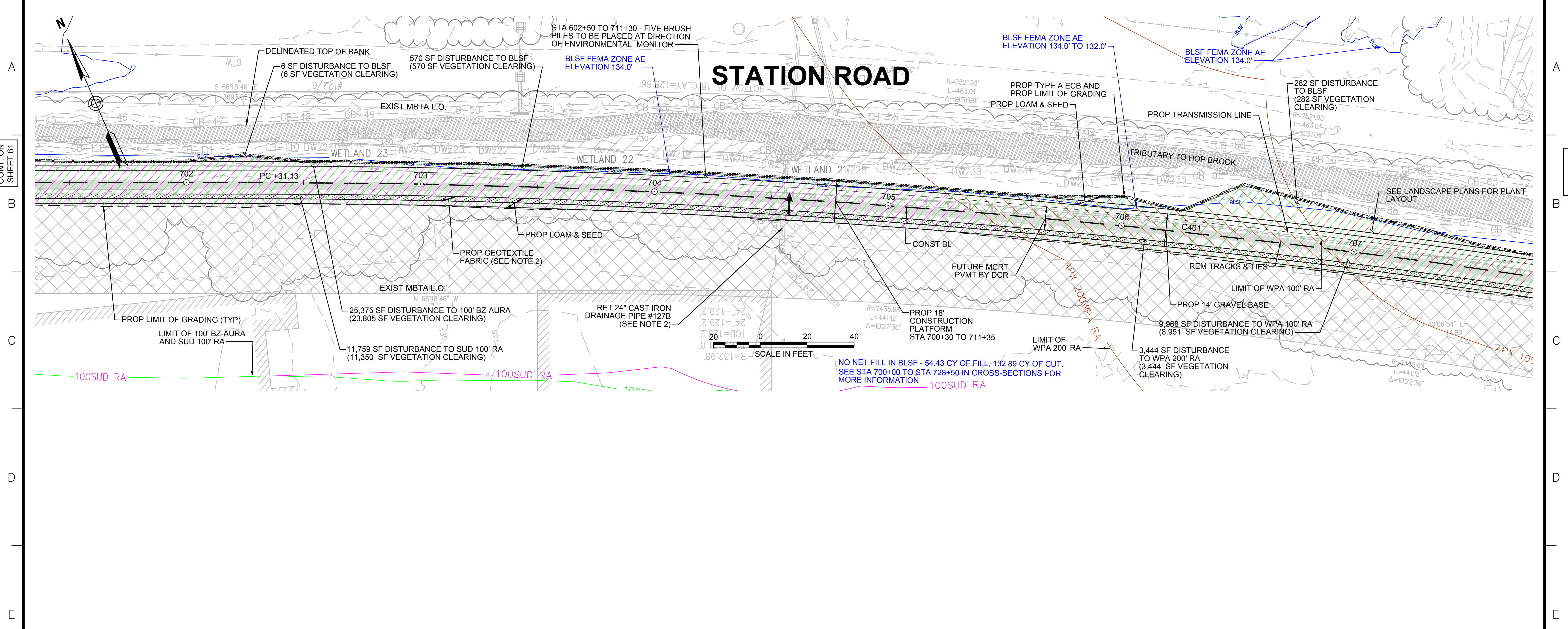
CONT. ON SHEET 60

CONT. ON SHEET 62

1 2 3 4 5 6 7 8 9 10 11

CONT. ON SHEET 61

CONT. ON SHEET 63



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. TRANSMISSION LINE TO RUN UNDERNEATH DRAINAGE PIPE (SEE DETAIL ON SHEET 157).

| ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|---|
| HATCH | DESCRIPTION |
| | ISOLATED VEGETATED WETLAND |
| | BORDERING VEGETATED WETLAND |
| | LAND UNDER WATER |
| | VERNAL POOL |
| | PERMANENT DISTURBANCE TO VEGETATED WETLAND |
| | TEMPORARY DISTURBANCE TO VEGETATED WETLAND |
| | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) |
| | TEMPORARY DISTURBANCE TO BANK |
| | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |
| | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| | DISTURBANCE TO BLSF |
| | EXISTING TREE LINE |
| | LIMIT OF GRADING |



| NO. | DESCRIPTION | BY | DATE | APPR. |
|----------|-------------|----|------|-------|
| REVISION | | | | |

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CONSTRUCTION PLANS

PLAN 62 OF 348

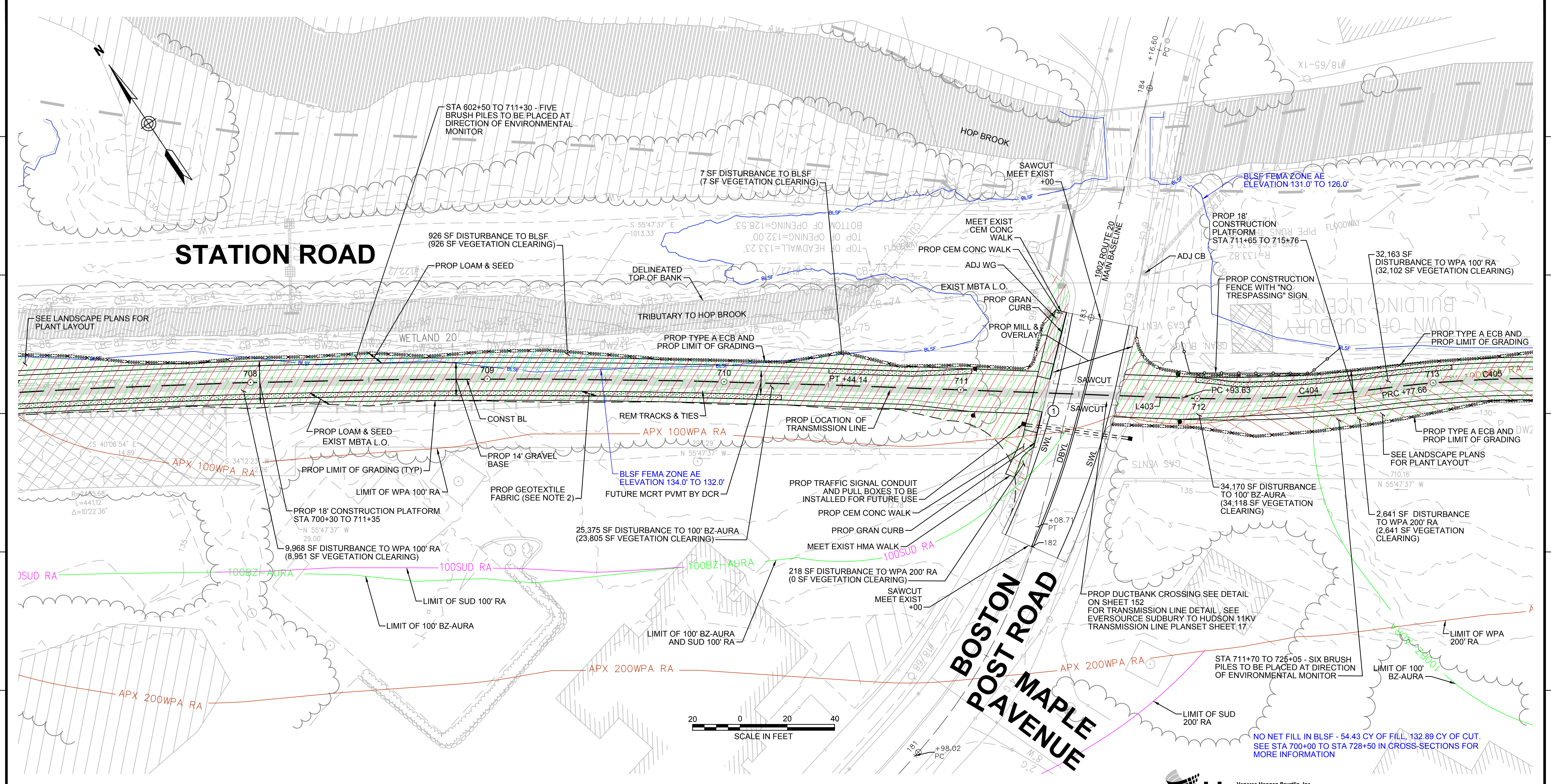
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| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MS | DRAWING NO. | REV. |
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STATION ROAD

**BOSTON POST ROAD
MAPLE AVENUE**

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.

LEGEND:
 (X) ACCESS ROAD CROSSING NUMBER

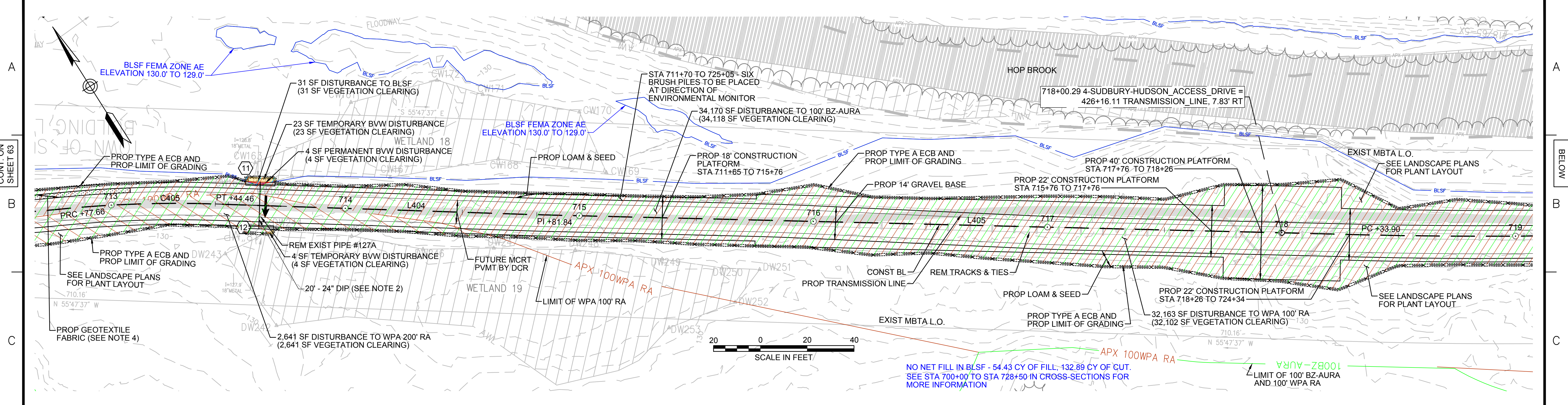
| HATCH | DESCRIPTION |
|-------------------|--|
| [Hatched pattern] | ISOLATED VEGETATED WETLAND |
| [Hatched pattern] | BORDERING VEGETATED WETLAND |
| [Hatched pattern] | LAND UNDER WATER |
| [Hatched pattern] | VERNAL POOL |
| [Hatched pattern] | PERMANENT DISTURBANCE TO VEGETATED WETLAND |
| [Hatched pattern] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND |
| [Hatched pattern] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) |
| [Hatched pattern] | TEMPORARY DISTURBANCE TO BANK |
| [Hatched pattern] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |

| HATCH | DESCRIPTION |
|-------------------|---|
| [Hatched pattern] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatched pattern] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatched pattern] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatched pattern] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatched pattern] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatched pattern] | DISTURBANCE TO BLSF |
| [Hatched pattern] | EXISTING TREE LINE |
| [Hatched pattern] | LIMIT OF GRADING |

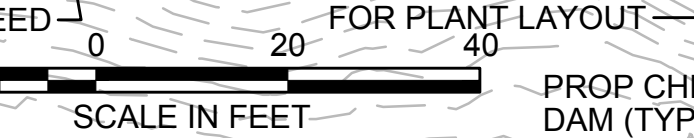
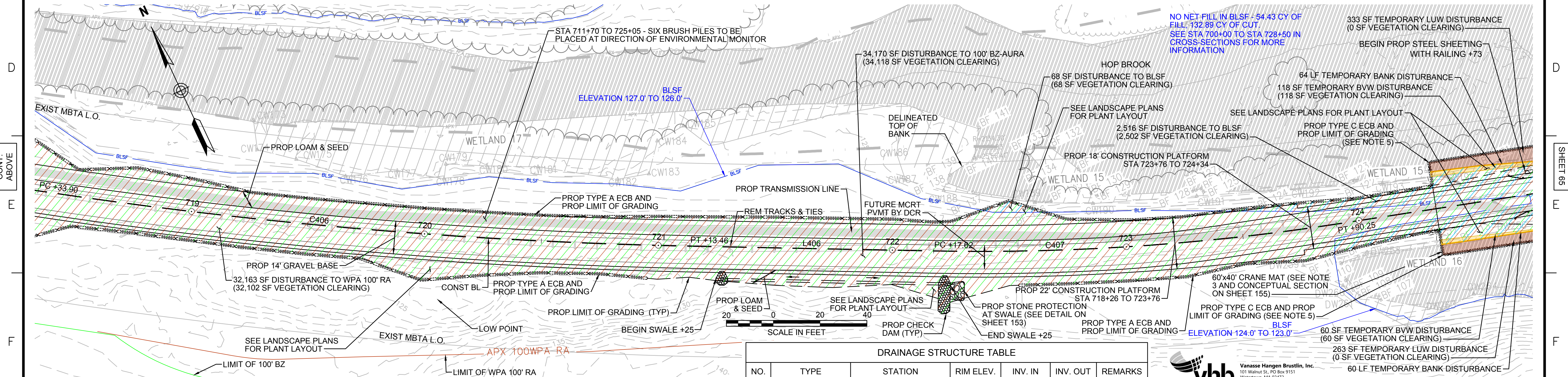


| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION PLANS | | | | |
| PLAN 63 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MS |
| DRAWING NO. | | | | REV. |

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NO NET FILL IN BLSF - 54.43 CY OF FILL; 132.89 CY OF CUT.
SEE STA 700+00 TO STA 728+50 IN CROSS-SECTIONS FOR MORE INFORMATION



NO NET FILL IN BLSF - 54.43 CY OF FILL; 132.89 CY OF CUT.
SEE STA 700+00 TO STA 728+50 IN CROSS-SECTIONS FOR MORE INFORMATION

| HATCH | ENVIRONMENTAL IMPACTS LEGEND DESCRIPTION | HATCH | DESCRIPTION |
|-------------------|--|-------------------|---|
| [Hatched pattern] | ISOLATED VEGETATED WETLAND | [Hatched pattern] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatched pattern] | BORDERING VEGETATED WETLAND | [Hatched pattern] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatched pattern] | LAND UNDER WATER | [Hatched pattern] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatched pattern] | VERNAL POOL | [Hatched pattern] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatched pattern] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatched pattern] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatched pattern] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatched pattern] | DISTURBANCE TO BLSF |
| [Hatched pattern] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatched pattern] | EXISTING TREE LINE |
| [Hatched pattern] | TEMPORARY DISTURBANCE TO BANK | [Hatched pattern] | LIMIT OF GRADING |
| [Hatched pattern] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |

| NO. | TYPE | STATION | RIM ELEV. | INV. IN | INV. OUT | REMARKS |
|-----|-------------------|------------------|-----------|---------|----------|------------|
| 11 | Concrete Headwall | 713+63, 10.0' LT | | 128.81' | | 18" REVEAL |
| 12 | Concrete Headwall | 713+63, 10.0' RT | | 128.55' | | 18" REVEAL |

- NOTES:**
- WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 - TRANSMISSION LINE TO RUN UNDERNEATH DRAINAGE PIPE.
 - MAXIMUM CRANE PAD DIMENSIONS OF 40'X40' ARE ALLOWED AT ANY GIVEN TIME. A LONGER CRANE MAT FOOTPRINT IS SHOWN HERE TO ALLOW THE CRANE MAT LOCATION TO BE SHIFTED DURING CONSTRUCTION OF THE STEEL SHEETING AND BRIDGE.
 - CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
 - TYPE C ECB SHALL CONSIST OF EITHER STAKED 4' HIGH SILT FENCE OR BOTTOM-ANCHORED TURBIDITY CURTAIN DEPENDING ON WATER LEVELS AT THE TIME OF CONSTRUCTION. THE APPROPRIATE ECB SHALL BE INSTALLED AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.

vhb Vanasse Hangen Brustlin, Inc.
101 Walnut St., PO Box 9151
Watertown, MA 02472
617.264.1770 FAX 617.264.2296

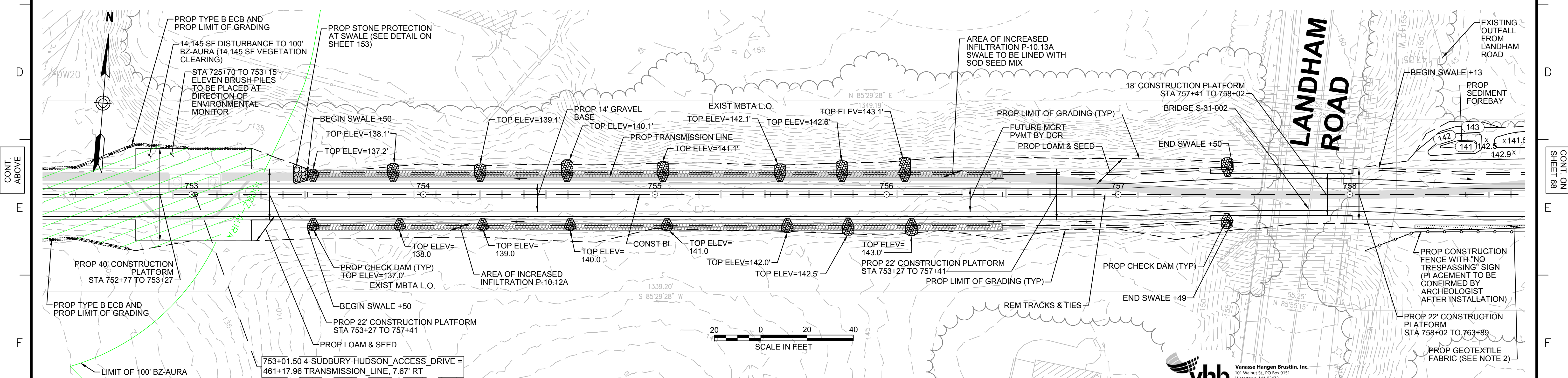
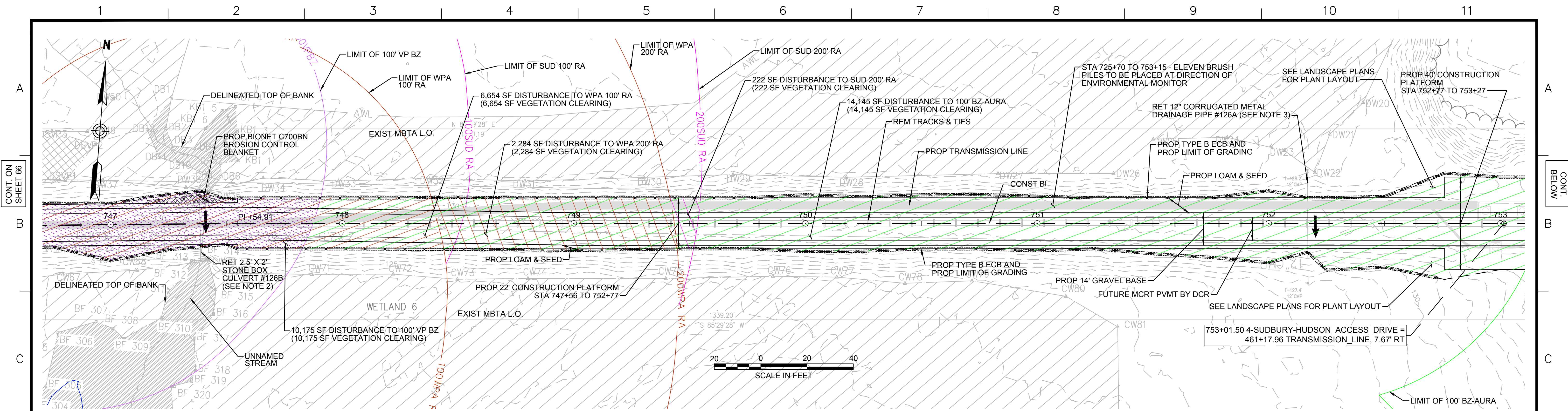
| NO. | DESCRIPTION | REVISION | BY | DATE | APPR. |
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CONSTRUCTION PLANS

PLAN 64 OF 348

| | | | | | | |
|-------------------------------|------------------|-------------|--------------|-------------|-----------------|----------|
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MS | DRAWING NO. | REV. |
|-------------------------------|------------------|-------------|--------------|-------------|-----------------|----------|



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. CONTRACTOR TO CUT VEGETATION ON NORTHEAST WINGWALL OF STONE BOX CULVERT. NO GRUBBING SHALL BE PERFORMED OUTSIDE LIMITS OF GRADING.
 3. CONTRACTOR TO CLEAR SEDIMENT IN DRAINAGE PIPE BY HAND.
 4. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| [Hatched Box] | ISOLATED VEGETATED WETLAND | [Hatched Box] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatched Box] | BORDERING VEGETATED WETLAND | [Hatched Box] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatched Box] | LAND UNDER WATER | [Hatched Box] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatched Box] | VERNAL POOL | [Hatched Box] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatched Box] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatched Box] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatched Box] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatched Box] | DISTURBANCE TO BLSF |
| [Hatched Box] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatched Box] | EXISTING TREE LINE |
| [Hatched Box] | TEMPORARY DISTURBANCE TO BANK | [Hatched Box] | LIMIT OF GRADING |
| [Hatched Box] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |

vhb Vanasse Hangen Brustlin, Inc.
 101 Walnut St., PO Box 9151
 Watertown, MA 02472
 617-264-1770 FAX 617-264-2286

| N.O. | DESCRIPTION | BY | DATE | APPR. |
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CONSTRUCTION PLANS

PLAN 67 OF 348

| SCALE: | DATE | DRAWN | CHK'D. | APPR. | DRAWING NO. | REV. |
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| 1"=20' | NOV 2020 | MS | SK | MS | | |

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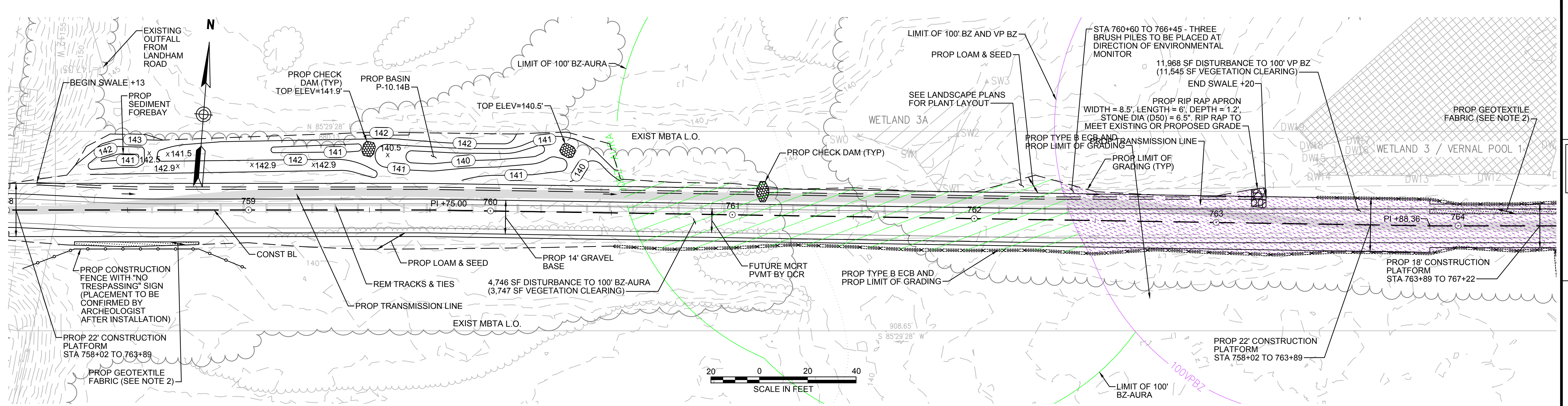
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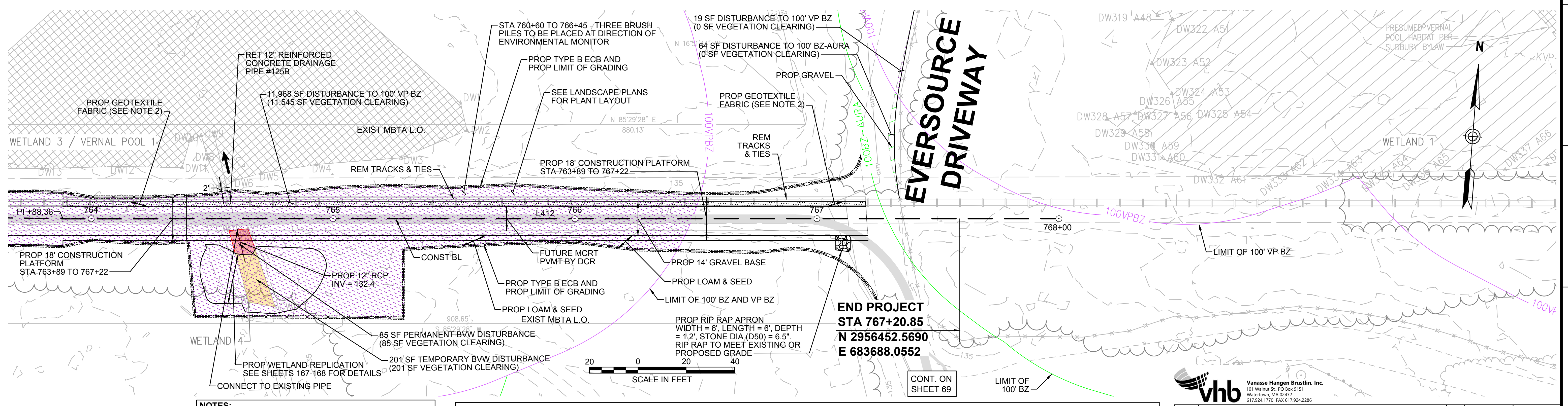
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- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
 3. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| [Hatch] | ISOLATED VEGETATED WETLAND | [Hatch] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatch] | BORDERING VEGETATED WETLAND | [Hatch] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch] | LAND UNDER WATER | [Hatch] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatch] | VERNAL POOL | [Hatch] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatch] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO BLSF |
| [Hatch] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatch] | EXISTING TREE LINE |
| [Hatch] | TEMPORARY DISTURBANCE TO BANK | [Hatch] | LIMIT OF GRADING |
| [Hatch] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |

vhb Vanasse Hangen Brustlin, Inc.
101 Walnut St., PO Box 9151
Watertown, MA 02472
617.264.1770 FAX 617.264.2286

| N.O. | DESCRIPTION | BY | DATE | APPR. |
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CONSTRUCTION PLANS
PLAN 68 OF 348

| SCALE: | DATE | DRAWN | CHK'D. | APPR. | DRAWING NO. | REV. |
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| 1"=20' | NOV 2020 | MS | SK | MES | | |

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CONT. ON SHEET 68

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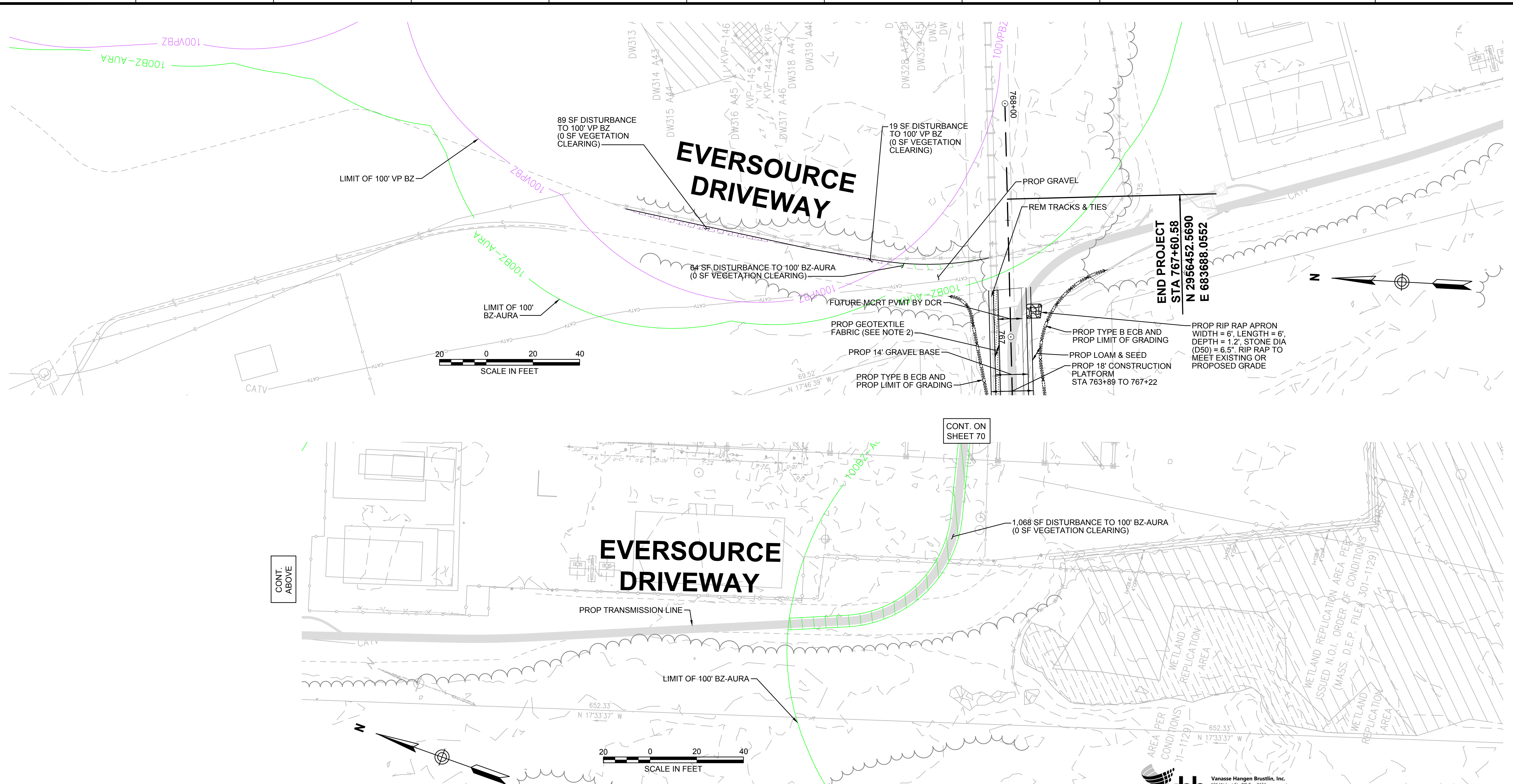
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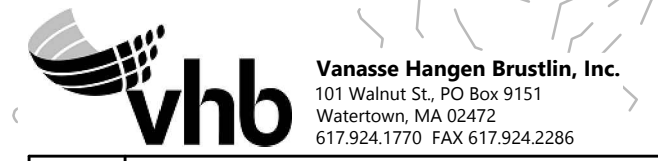
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- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
 3. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| [Hatch] | ISOLATED VEGETATED WETLAND | [Hatch] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatch] | BORDERING VEGETATED WETLAND | [Hatch] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch] | LAND UNDER WATER | [Hatch] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatch] | VERNAL POOL | [Hatch] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatch] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO BLSF |
| [Hatch] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatch] | EXISTING TREE LINE |
| [Hatch] | TEMPORARY DISTURBANCE TO BANK | [Hatch] | LIMIT OF GRADING |
| [Hatch] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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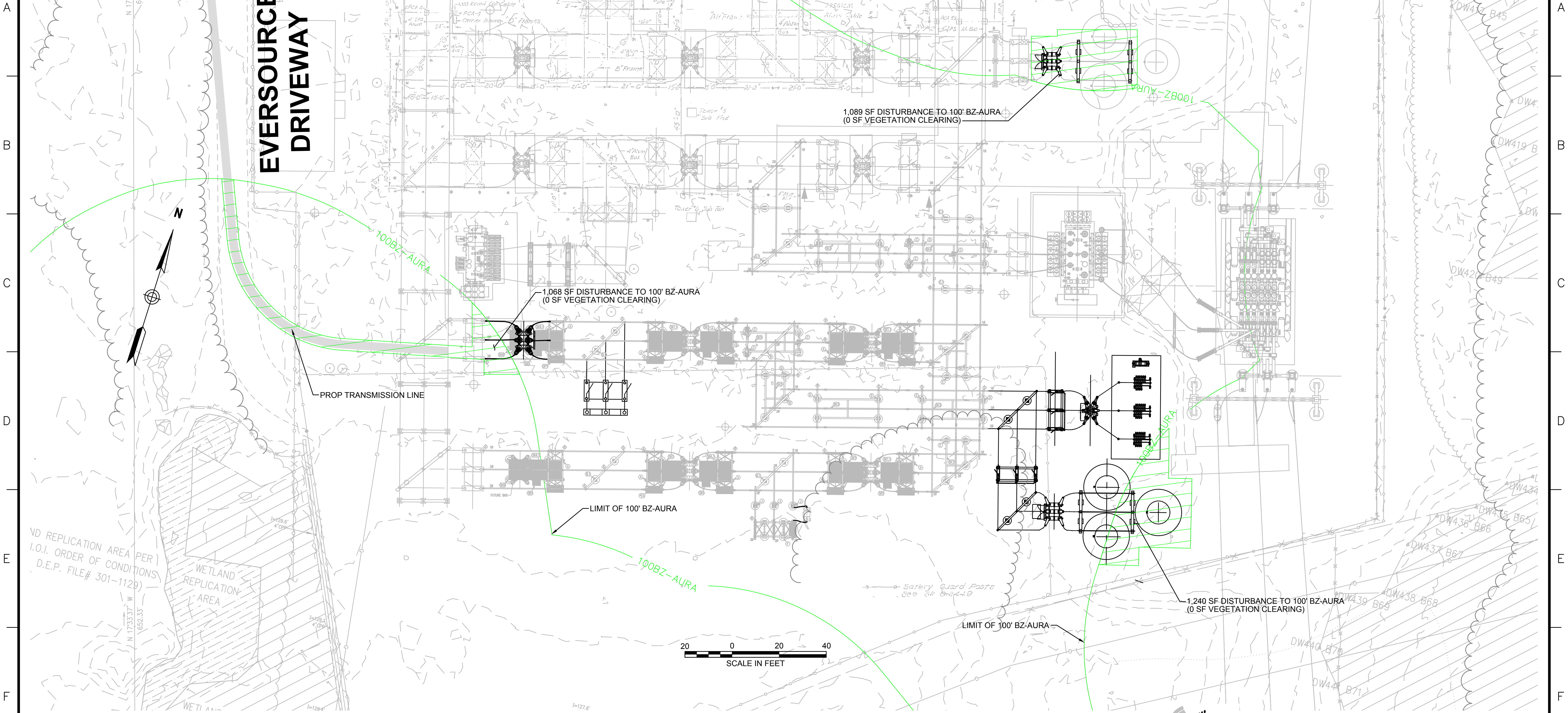
EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CONSTRUCTION PLANS

PLAN 69 OF 348

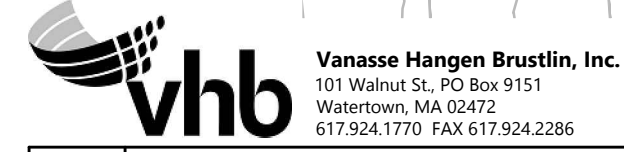
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| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MS | DRAWING NO. | REV. |
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NOTE:
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).

| ENVIRONMENTAL IMPACTS LEGEND | | ENVIRONMENTAL IMPACTS LEGEND | |
|------------------------------|--|------------------------------|---|
| HATCH | DESCRIPTION | HATCH | DESCRIPTION |
| [Hatch] | ISOLATED VEGETATED WETLAND | [Hatch] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA) |
| [Hatch] | BORDERING VEGETATED WETLAND | [Hatch] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch] | LAND UNDER WATER | [Hatch] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA) |
| [Hatch] | VERNAL POOL | [Hatch] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch] | PERMANENT DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA) |
| [Hatch] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND | [Hatch] | DISTURBANCE TO BLSF |
| [Hatch] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW) | [Hatch] | EXISTING TREE LINE |
| [Hatch] | TEMPORARY DISTURBANCE TO BANK | [Hatch] | LIMIT OF GRADING |
| [Hatch] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) | | |



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| NO. | | DESCRIPTION | | BY | DATE | APPR. |
| | | REVISION | | | | |
| EVERSOURCE | | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | |
| CONSTRUCTION PLANS | | | | | | |
| PLAN 70 OF 348 | | | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D SK | A.P.P.R. MS | DRAWING NO. | REV. |

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| 3-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA | | | | | | | | |
|--|------------------|-------------|------------|--|---------------------------|----------------|-------------|------------|
| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | NORTHING | EASTING |
| L301 | 500+00.00 | 2961502.012 | 667872.321 | | S66° 12' 11"E 2.28' | 500+02.28 | 2961501.092 | 667874.407 |
| C301 | 500+02.28 | 2961501.092 | 667874.407 | R=500.00' Δ=7°41'35" L=67.14' T=33.62' | | 500+69.41 | 2961469.967 | 667933.834 |
| C302 | 500+69.41 | 2961469.967 | 667933.834 | R=500.00' Δ=7°41'34" L=67.13' T=33.62' | | 501+36.55 | 2961438.842 | 667993.259 |
| L302 | 501+36.55 | 2961438.842 | 667993.259 | | S66° 12' 10"E 352.24' | 504+88.78 | 2961296.716 | 668315.548 |
| L303 | 504+88.78 | 2961296.716 | 668315.548 | | S66° 29' 41"E 714.53' | 512+03.31 | 2961011.736 | 668970.789 |
| L304 | 512+03.31 | 2961011.736 | 668970.789 | | S65° 47' 36"E 355.56' | 515+58.87 | 2960865.948 | 669295.083 |
| C303 | 515+58.87 | 2960865.948 | 669295.083 | R=2000.00' Δ=2°02'02" L=70.99' T=35.50' | | 516+29.86 | 2960837.994 | 669360.337 |
| L305 | 516+29.86 | 2960837.994 | 669360.337 | | S67° 49' 38"E 62.53' | 516+92.40 | 2960814.394 | 669418.247 |
| C304 | 516+92.40 | 2960814.394 | 669418.247 | R=5000.00' Δ=2°28'08" L=215.46' T=107.75' | | 519+07.86 | 2960728.805 | 669615.962 |
| L306 | 519+07.86 | 2960728.805 | 669615.962 | | S65° 21' 30"E 56.37' | 519+64.23 | 2960705.304 | 669667.194 |
| C305 | 519+64.23 | 2960705.304 | 669667.194 | R=5000.00' Δ=1°03'24" L=92.20' T=46.10' | | 520+56.43 | 2960667.637 | 669751.349 |
| L307 | 520+56.43 | 2960667.637 | 669751.349 | | S66° 24' 53"E 3804.53' | 558+60.96 | 2959145.398 | 673238.076 |
| L308 | 558+60.96 | 2959145.398 | 673238.076 | | S67° 25' 05"E 114.60' | 559+75.56 | 2959101.392 | 673343.887 |
| L309 | 559+75.56 | 2959101.392 | 673343.887 | | S66° 25' 05"E 324.74' | 563+00.30 | 2958971.476 | 673641.508 |
| L310 | 563+00.30 | 2958971.476 | 673641.508 | | S66° 18' 26"E 3665.57' | 599+65.87 | 2957498.529 | 676998.123 |
| C306 | 599+65.87 | 2957498.529 | 676998.123 | R=500.00' Δ=3°38'00" L=31.71' T=15.86' | | 599+97.58 | 2957486.717 | 677027.541 |
| L311 | 599+97.58 | 2957486.717 | 677027.541 | | S69° 56' 26"E 84.99' | 600+82.57 | 2957457.567 | 677107.371 |
| C307 | 600+82.57 | 2957457.567 | 677107.371 | R=500.00' Δ=3°38'42" L=31.81' T=15.91' | | 601+14.37 | 2957445.714 | 677136.884 |
| L312 | 601+14.37 | 2957445.714 | 677136.884 | | S66° 17' 43"E 47.14' | 601+61.52 | 2957426.761 | 677180.049 |
| C308 | 601+61.52 | 2957426.761 | 677180.049 | R=500.00' Δ=3°13'05" L=28.08' T=14.05' | | 601+89.60 | 2957414.756 | 677205.432 |
| L313 | 601+89.60 | 2957414.756 | 677205.432 | | S63° 04' 38"E 68.56' | 602+58.16 | 2957383.711 | 677266.565 |
| C309 | 602+58.16 | 2957383.711 | 677266.565 | R=500.00' Δ=3°13'05" L=28.08' T=14.05' | | 602+86.25 | 2957371.705 | 677291.948 |
| L314 | 602+86.25 | 2957371.705 | 677291.948 | | S66° 17' 43"E 14.06' | 603+00.31 | 2957366.053 | 677304.821 |



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| N O. | DESCRIPTION | BY | DATE | APPR. |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION BASELINE DATA | | | | |
| PLAN 73 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

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| 4-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA | | | | | | | | |
|--|------------------|--------------|-------------|---|------------------------|----------------|--------------|-------------|
| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | NORTHING | EASTING |
| L401 | 700+00.00 | 2957366.0527 | 677304.8213 | | S66°14'03"E 231.13' | 702+31.13 | 2957272.9091 | 677516.3488 |
| C401 | 702+31.13 | 2957272.9091 | 677516.3488 | R=3750.00' Δ=12°25'19" L=813.02' T=408.11' | | 710+44.14 | 2956867.4824 | 678219.2284 |
| L403 | 710+44.14 | 2956867.4824 | 678219.2284 | | S53°48'44"E 149.49' | 711+93.63 | 2956779.2208 | 678339.8770 |
| C404 | 711+93.63 | 2956779.2208 | 678339.8770 | R=500.00' Δ=9°37'46" L=84.03' T=42.12' | | 712+77.66 | 2956735.5245 | 678411.5389 |
| C405 | 712+77.66 | 2956735.5245 | 678411.5389 | R=500.00' Δ=7°39'17" L=66.80' T=33.45' | | 713+44.46 | 2956701.7603 | 678469.1214 |
| L404 | 713+44.46 | 2956701.7603 | 678469.1214 | | S55°47'13"E 137.37' | 714+81.84 | 2956624.5189 | 678582.7225 |
| L405 | 714+81.84 | 2956624.5189 | 678582.7225 | | S56°18'15"E 352.06' | 718+33.90 | 2956429.2013 | 678875.6350 |
| C406 | 718+33.90 | 2956429.2013 | 678875.6350 | R=2150.00' Δ=7°27'00" L=279.56' T=139.98' | | 721+13.46 | 2956289.6424 | 679117.6429 |
| L406 | 721+13.46 | 2956289.6424 | 679117.6429 | | S63°45'15"E 104.16' | 722+17.62 | 2956243.5785 | 679211.0686 |
| C407 | 722+17.62 | 2956243.5785 | 679211.0686 | R=1000.00' Δ=9°53'27" L=172.63' T=86.53' | | 723+90.25 | 2956180.9486 | 679371.7031 |
| L407 | 723+90.25 | 2956180.9486 | 679371.7031 | | S73°38'42"E 171.77' | 725+62.02 | 2956132.5797 | 679536.5242 |
| C408 | 725+62.02 | 2956132.5797 | 679536.5242 | R=975.00' Δ=8°08'34" L=138.56' T=69.40' | | 727+00.58 | 2956103.1249 | 679671.8017 |
| L408 | 727+00.58 | 2956103.1249 | 679671.8017 | | S81°47'16"E 414.21' | 731+14.79 | 2956043.9591 | 680081.7601 |
| C409 | 731+14.79 | 2956043.9591 | 680081.7601 | R=1450.00' Δ=25°44'54" L=651.62' T=331.41' | | 737+66.41 | 2956096.4751 | 680725.7736 |
| L409 | 737+66.41 | 2956096.4751 | 680725.7736 | | N72°27'50"E 398.71' | 741+65.12 | 2956216.6094 | 681105.9571 |
| C410 | 741+65.12 | 2956216.6094 | 681105.9571 | R=1400.00' Δ=12°28'35" L=304.86' T=153.03' | | 744+69.98 | 2956276.2156 | 681404.3155 |
| L410 | 744+69.98 | 2956276.2156 | 681404.3155 | | N84°56'25"E 284.93' | 747+54.91 | 2956301.3441 | 681688.1339 |
| L412 | 763+88.36 | 2956423.2838 | 683316.9838 | | N85°29'15"E 411.64' | 768+00.00 | 2956455.6704 | 683727.3522 |



| N O. | DESCRIPTION | BY | DATE | APP R. |
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| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION BASELINE DATA | | | | |
| PLAN 74 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APP R. MES |
| DRAWING NO. | REV. | | | |

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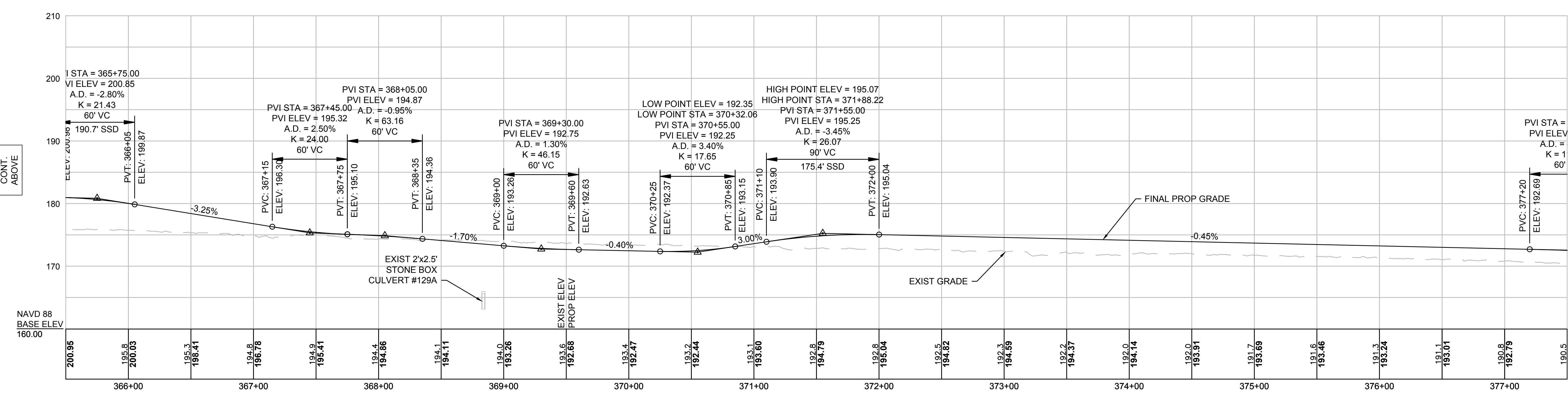
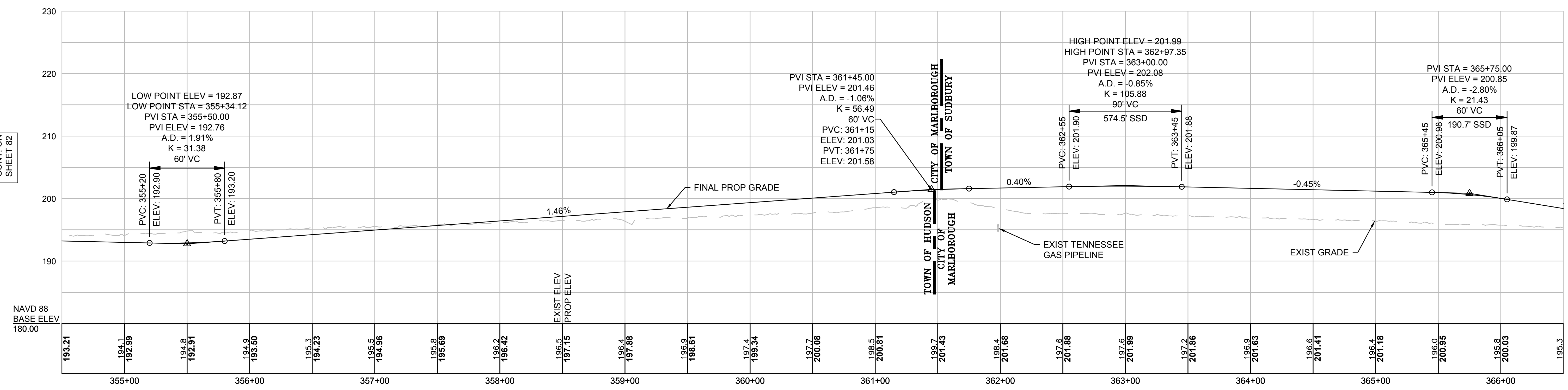
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CONT. ON SHEET 82

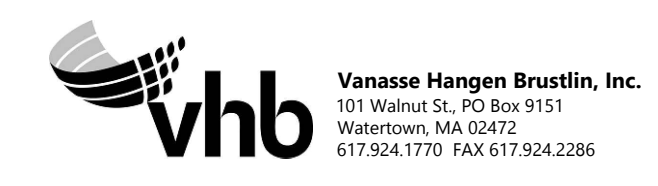
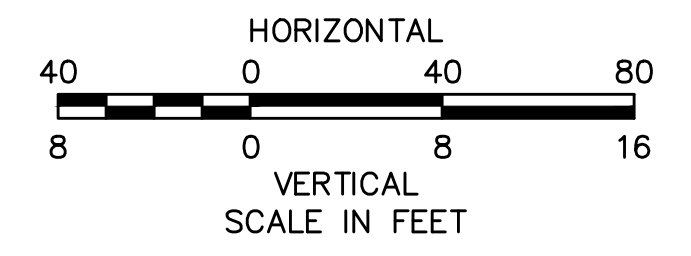
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NOTE:
 CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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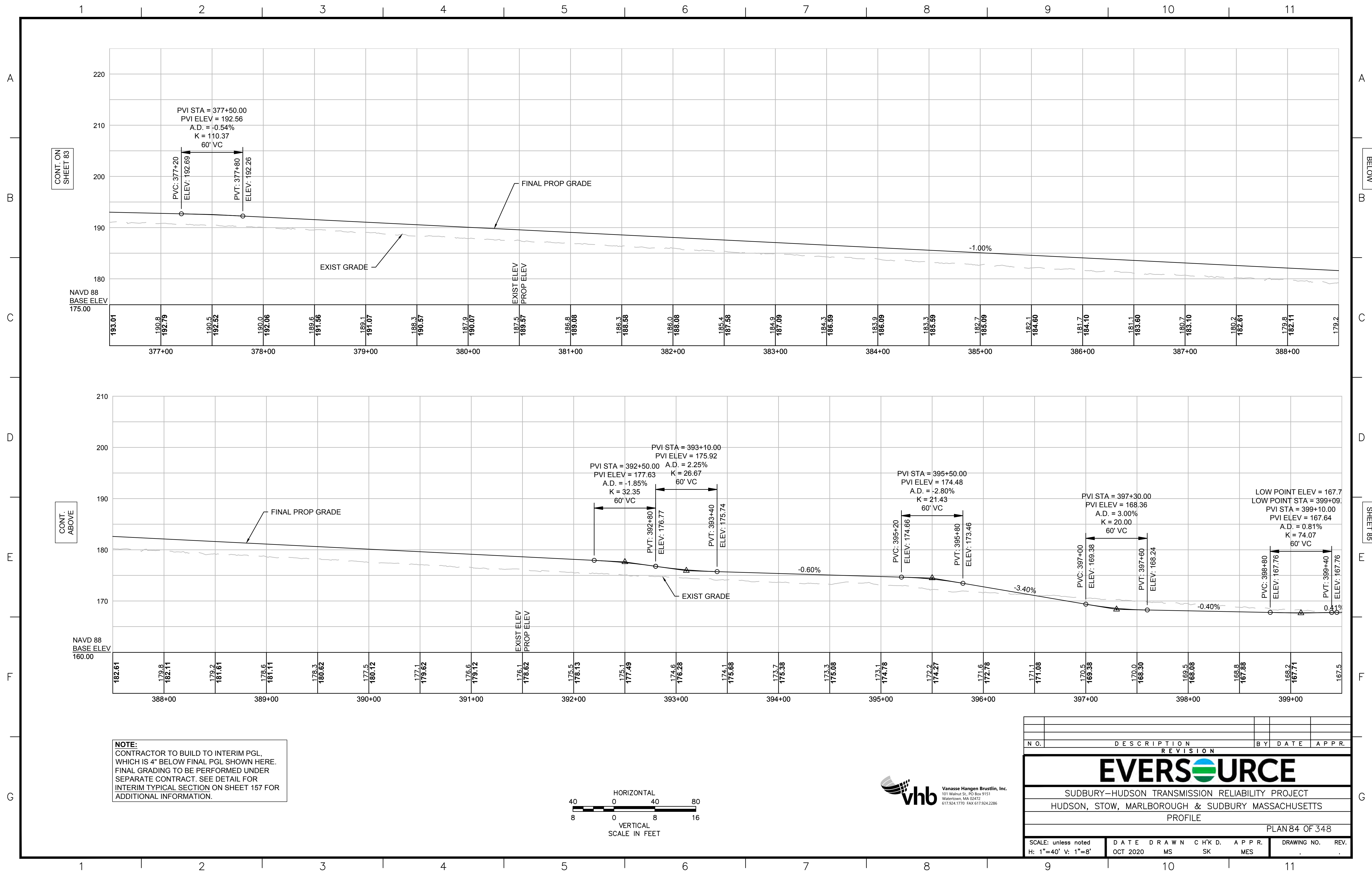
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SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 PROFILE

PLAN 83 OF 348

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|---|---------------------------|--------------|--------------|---------------------|
| SCALE: unless noted H: 1"=40' V: 1"=8' | DATE DRAWN OCT 2020 MS | CHK'D. SK | APPR. MES | DRAWING NO. REV. |
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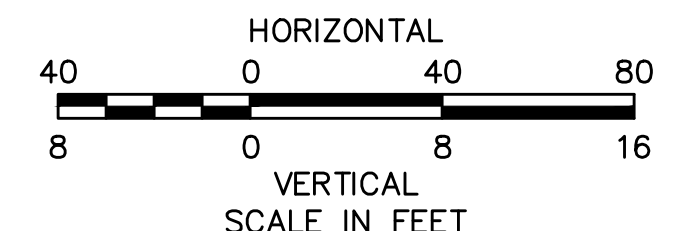
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CONT. ON SHEET 85

NOTE:
 CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| PROFILE | | | | |
| PLAN 84 OF 348 | | | | |
| SCALE: unless noted H: 1"=40' V: 1"=8' | | DATE | DRAWN | CHK'D |
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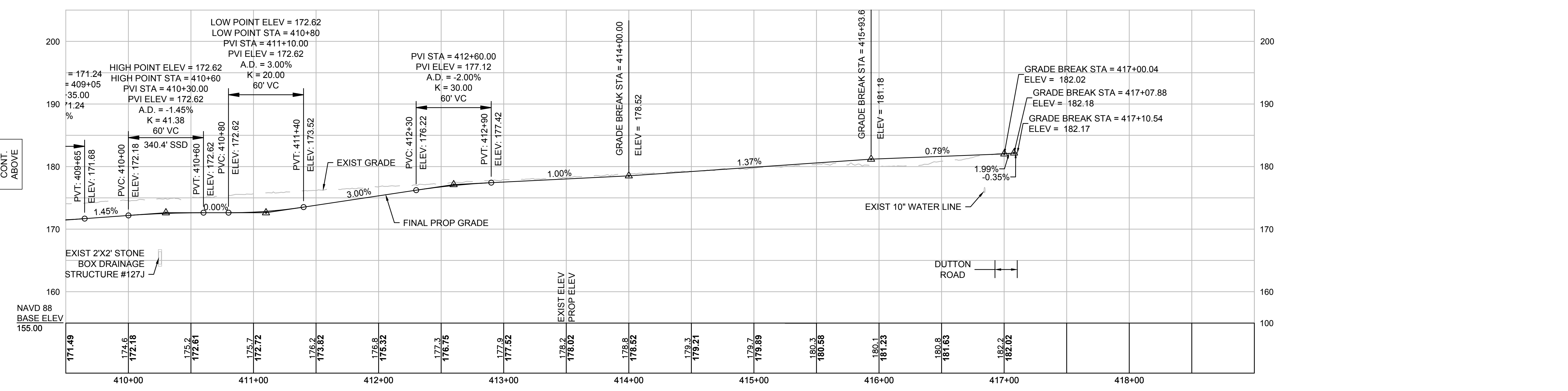
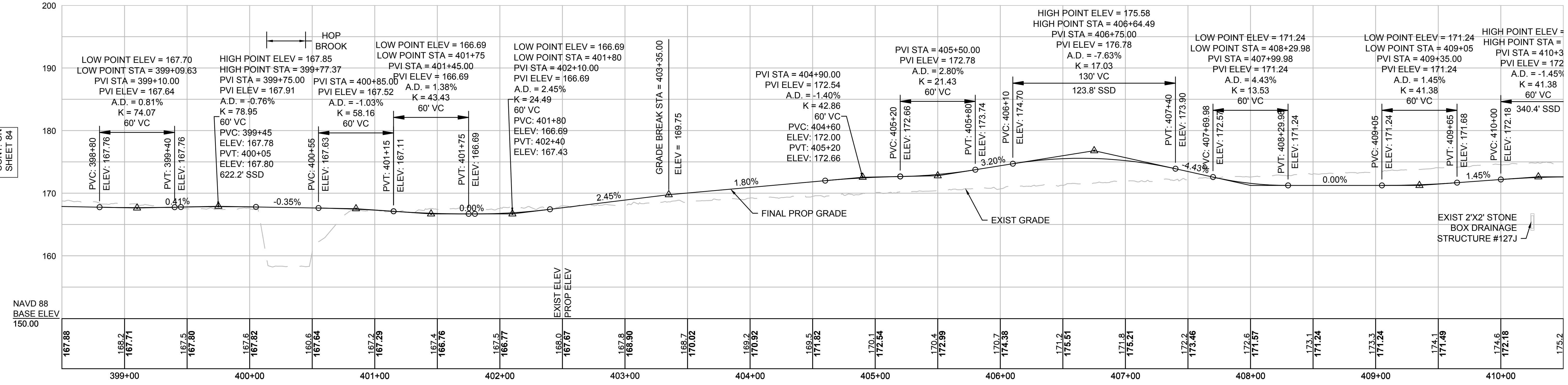
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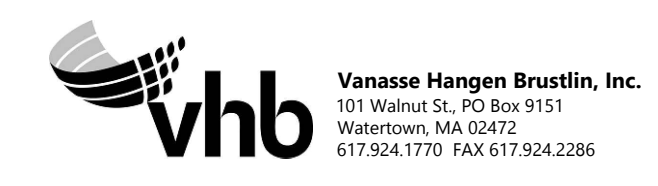
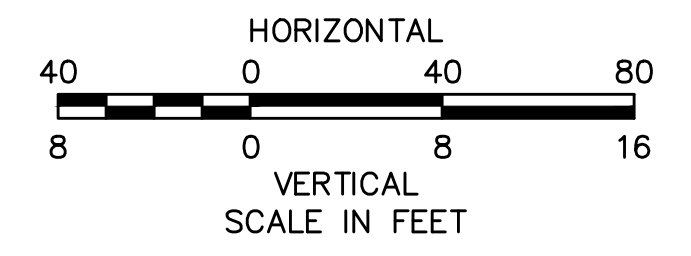
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NOTE:
 CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.



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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | |
| PROFILE | | | |
| PLAN 85 OF 348 | | | |
| SCALE: unless noted H: 1"=40' V: 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK |
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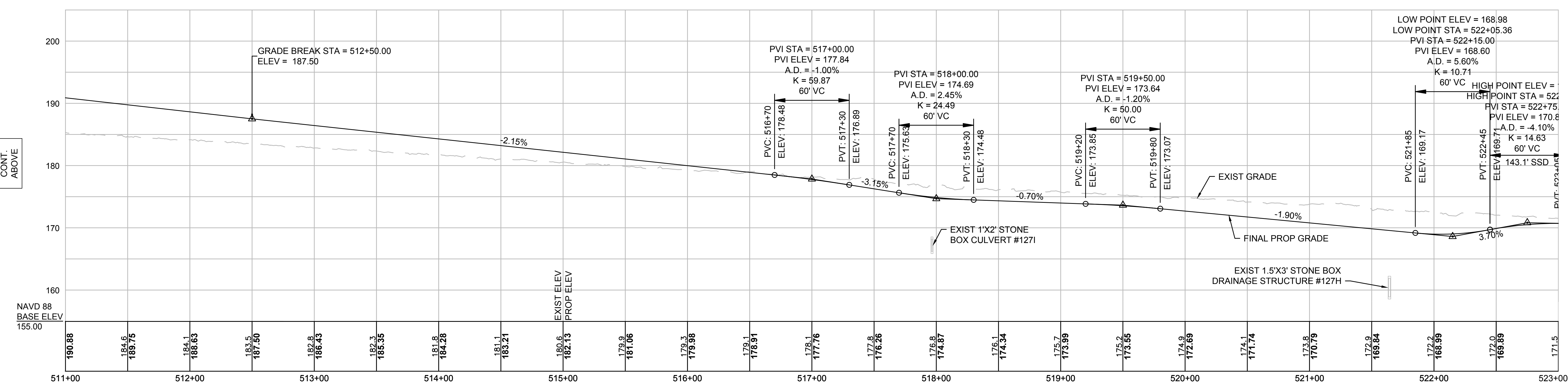
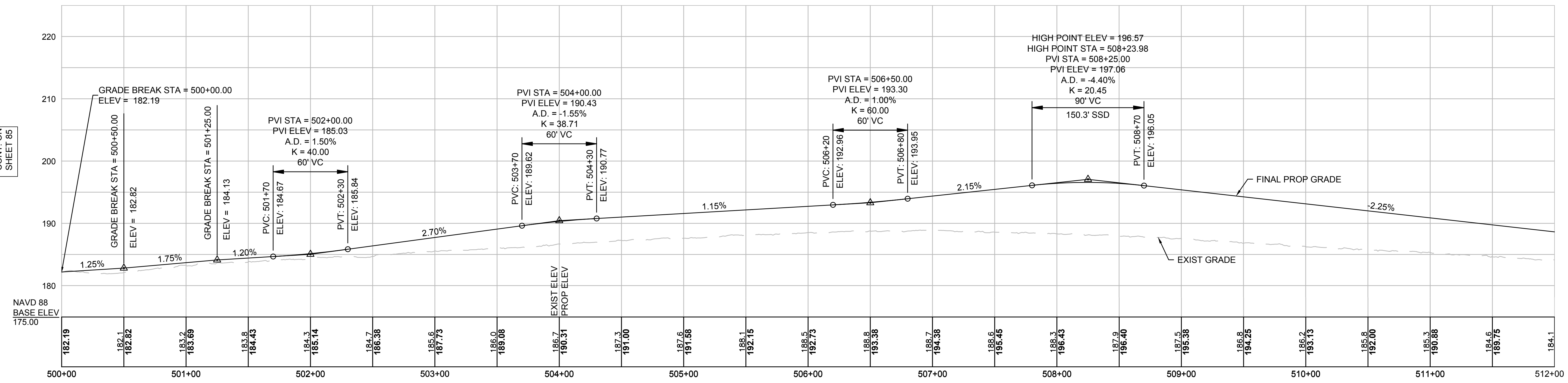
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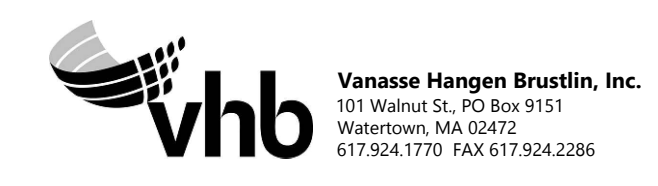
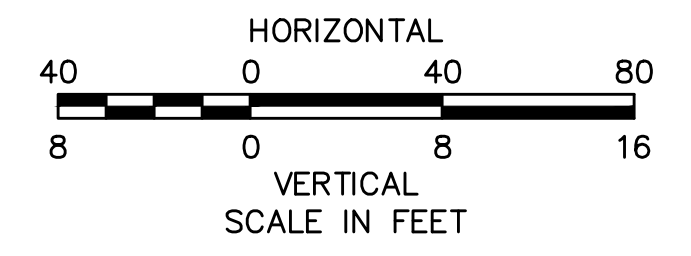
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NOTE:
CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.



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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
PROFILE

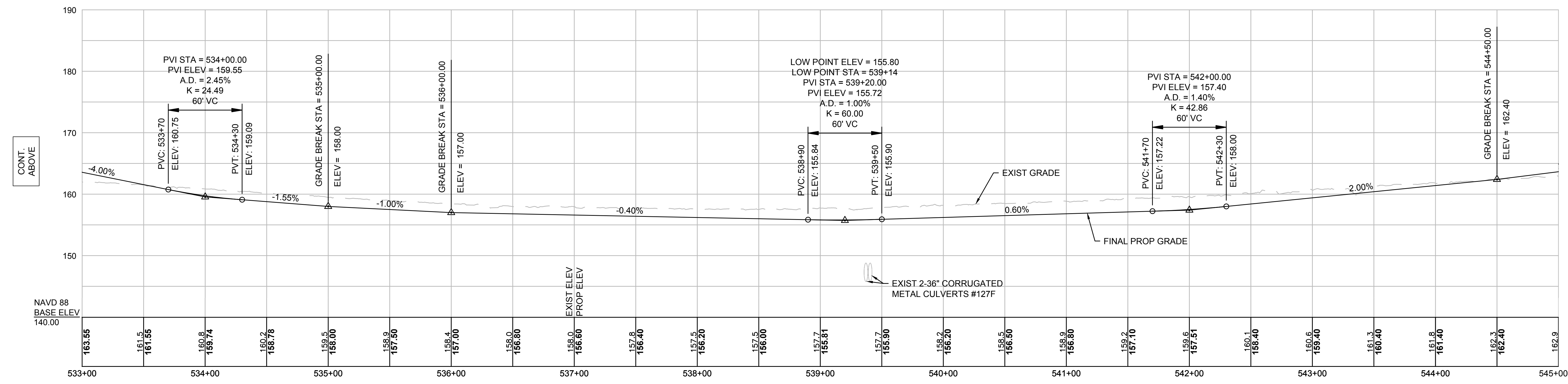
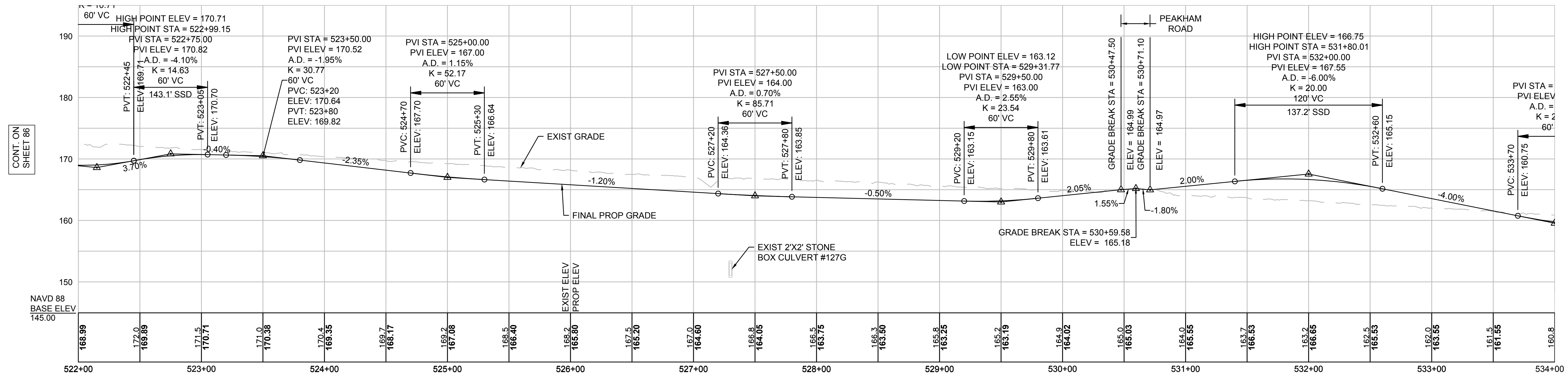
PLAN 86 OF 348

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| SCALE: unless noted H: 1"=40' V: 1"=8' | DATE DRAWN OCT 2020 MS | CHK'D. SK | APPR. MS | DRAWING NO. | REV. |
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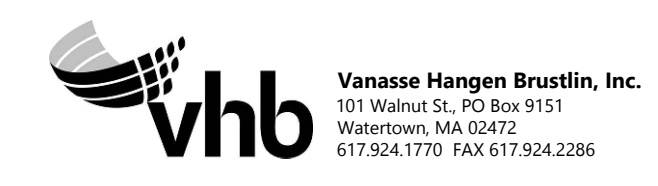
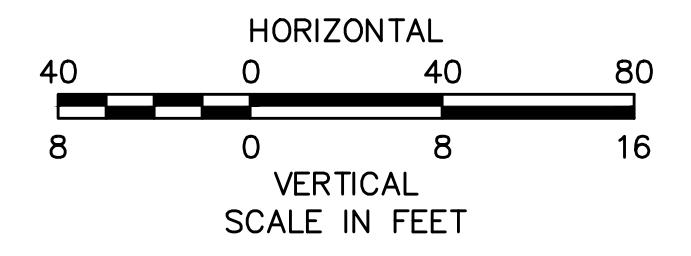
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NOTE:
CONTRACTOR TO BUILD TO INTERIM PGL,
WHICH IS 4" BELOW FINAL PGL SHOWN HERE.
FINAL GRADING TO BE PERFORMED UNDER
SEPARATE CONTRACT. SEE DETAIL FOR
INTERIM TYPICAL SECTION ON SHEET 157 FOR
ADDITIONAL INFORMATION.



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| PROFILE | | | | |
| PLAN 87 OF 348 | | | | |
| SCALE: unless noted H: 1"=40' V: 1"=8' | | DATE | DRAWN | CHK'D |
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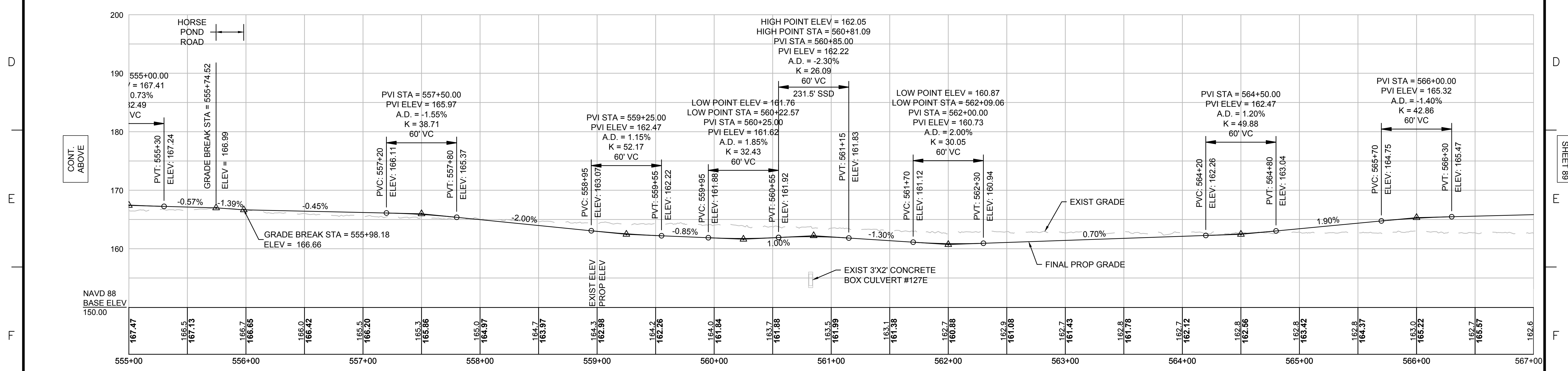
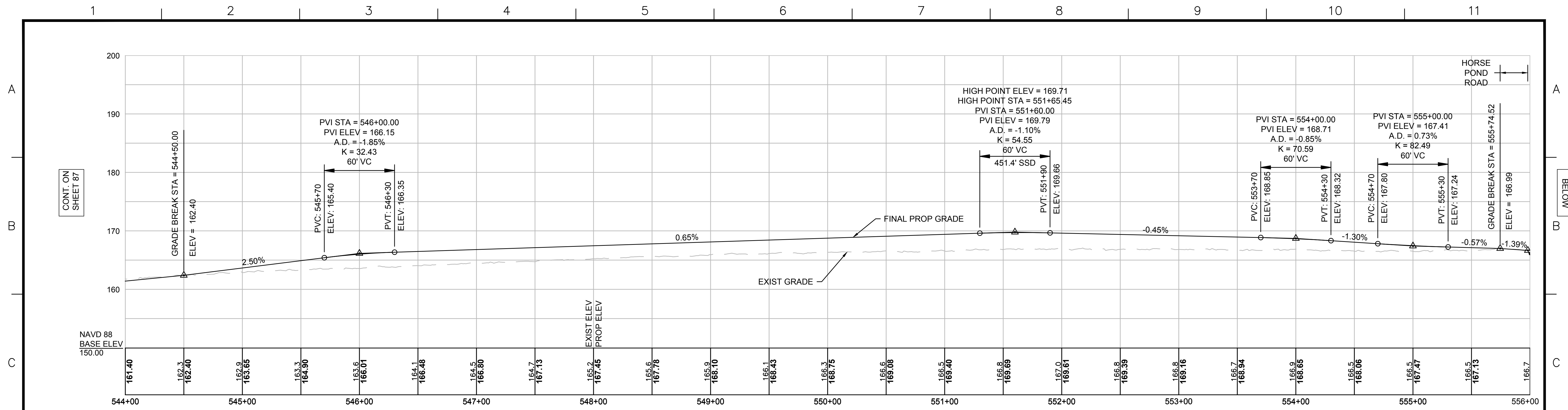
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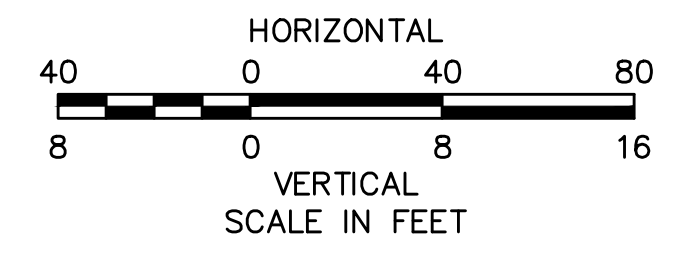
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NOTE:
CONTRACTOR TO BUILD TO INTERIM PGL,
WHICH IS 4" BELOW FINAL PGL SHOWN HERE.
FINAL GRADING TO BE PERFORMED UNDER
SEPARATE CONTRACT. SEE DETAIL FOR
INTERIM TYPICAL SECTION ON SHEET 157 FOR
ADDITIONAL INFORMATION.



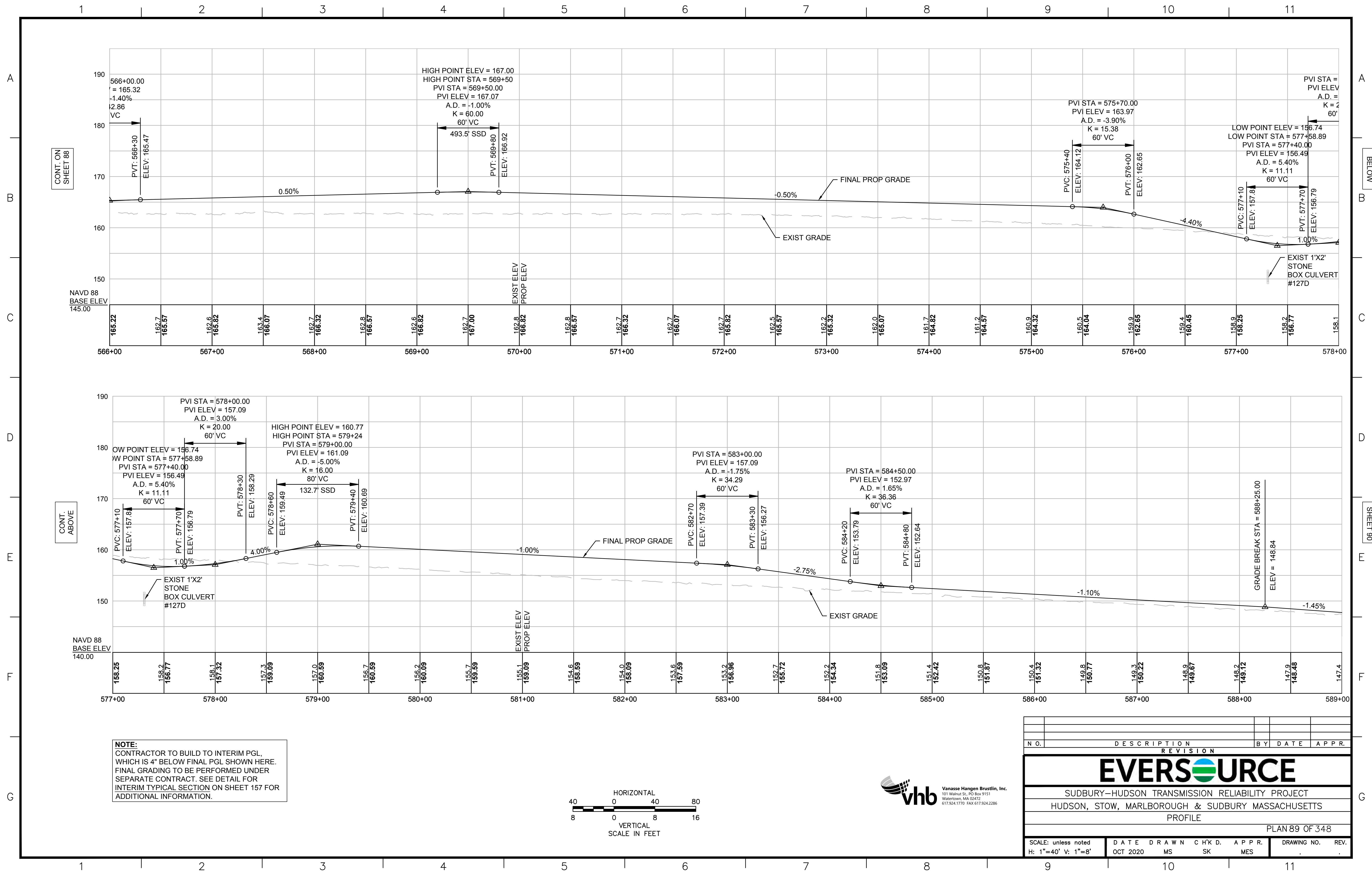
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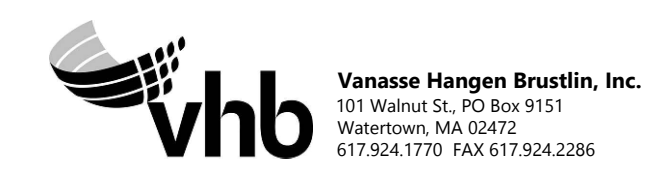
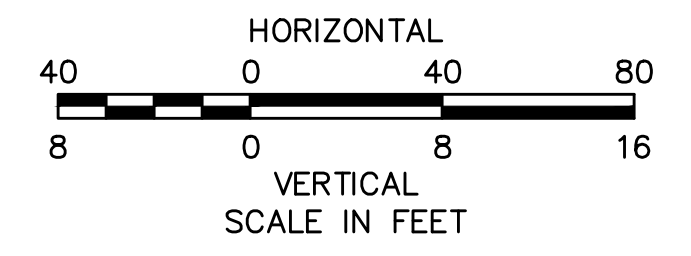
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
PROFILE

PLAN 88 OF 348

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| SCALE: unless noted H: 1"=40' V: 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. | REV. |
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NOTE:
 CONTRACTOR TO BUILD TO INTERIM PGL,
 WHICH IS 4" BELOW FINAL PGL SHOWN HERE.
 FINAL GRADING TO BE PERFORMED UNDER
 SEPARATE CONTRACT. SEE DETAIL FOR
 INTERIM TYPICAL SECTION ON SHEET 157 FOR
 ADDITIONAL INFORMATION.



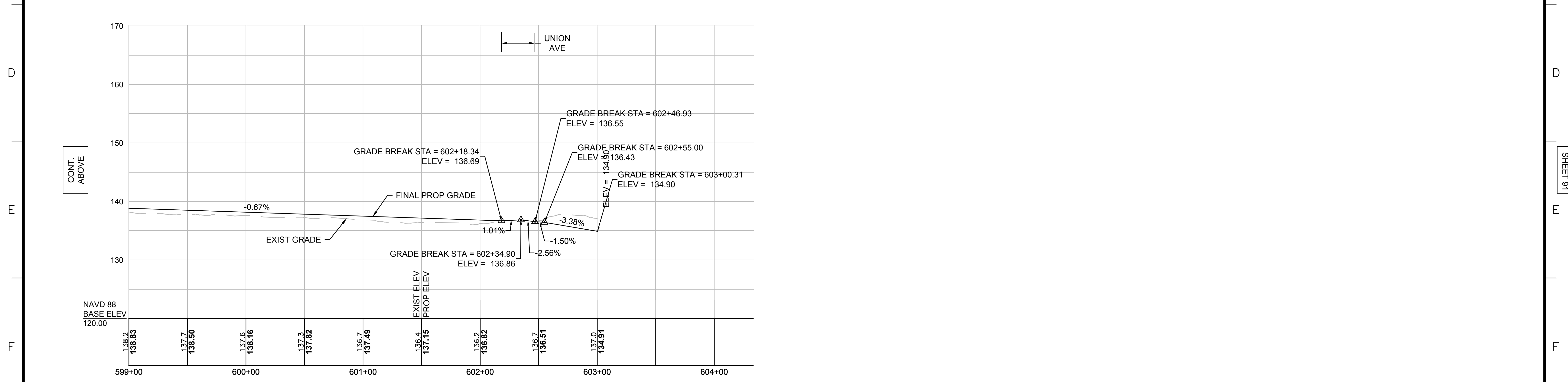
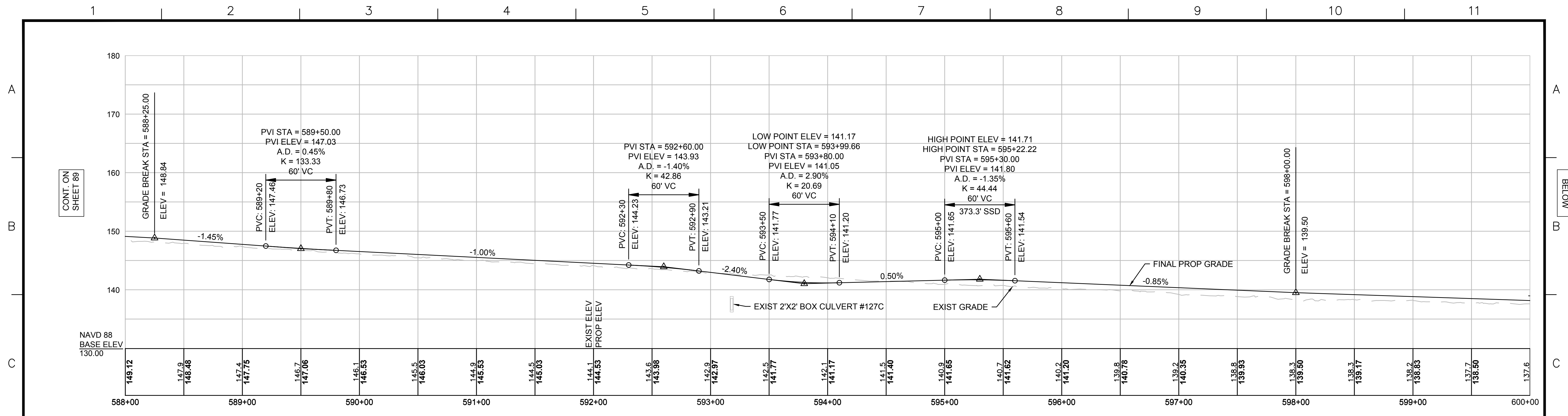
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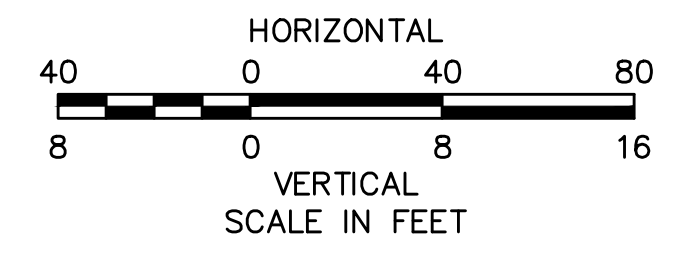
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 PROFILE

PLAN 89 OF 348

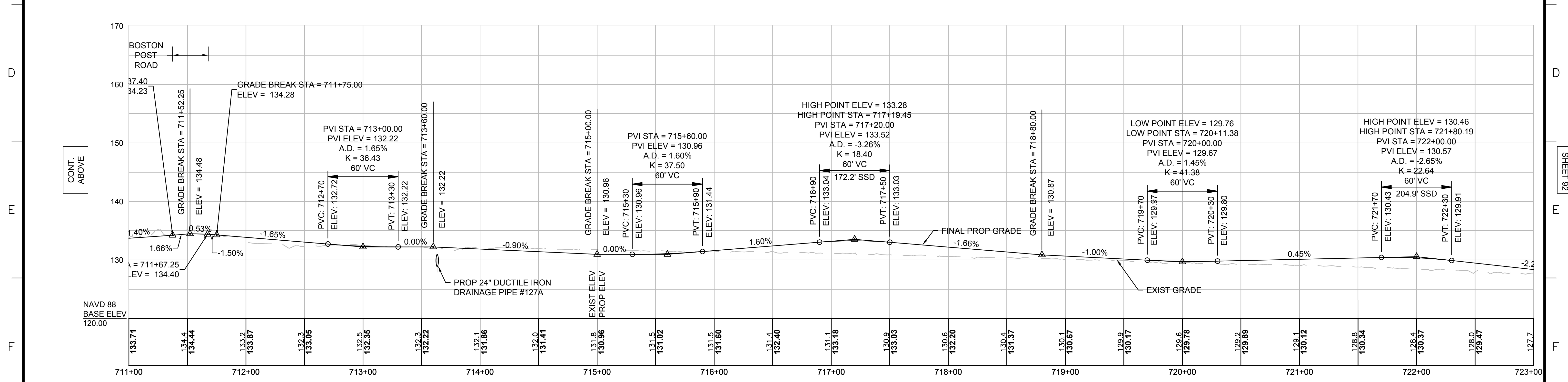
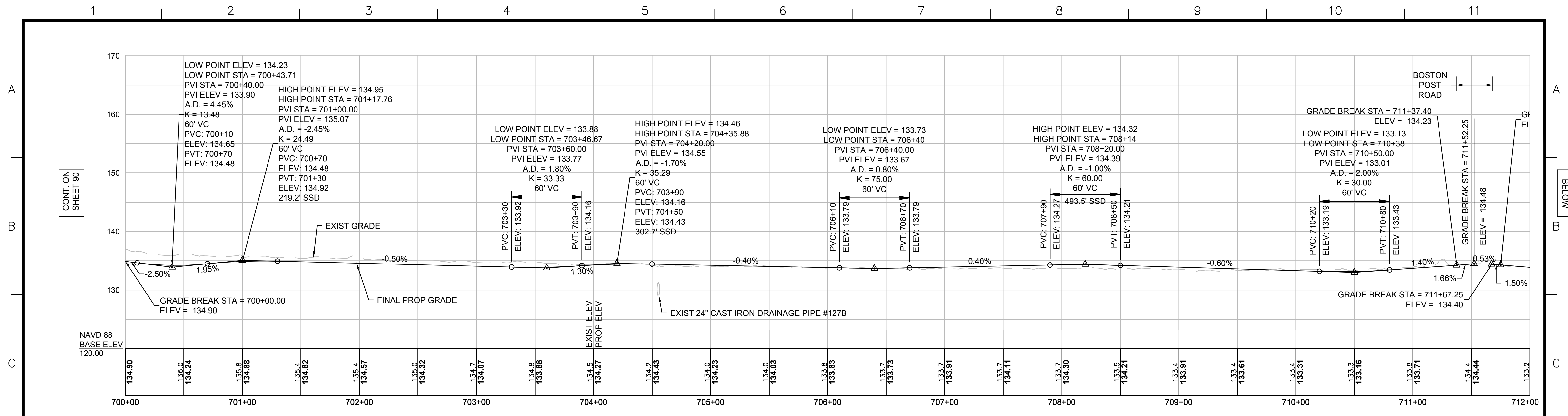
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| SCALE: unless noted H: 1"=40' V: 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. | REV. |
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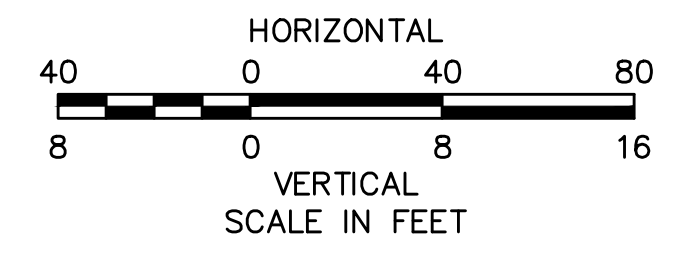
NOTE:
 CONTRACTOR TO BUILD TO INTERIM PGL,
 WHICH IS 4" BELOW FINAL PGL SHOWN HERE.
 FINAL GRADING TO BE PERFORMED UNDER
 SEPARATE CONTRACT. SEE DETAIL FOR
 INTERIM TYPICAL SECTION ON SHEET 157 FOR
 ADDITIONAL INFORMATION.



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| PROFILE | | | | |
| PLAN 90 OF 348 | | | | |
| SCALE: unless noted H: 1"=40' V: 1"=8' | | DATE DRAWN OCT 2020 MS | | CHK'D. APPR. SK MES |
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NOTE:
 CONTRACTOR TO BUILD TO INTERIM PGL,
 WHICH IS 4" BELOW FINAL PGL SHOWN HERE.
 FINAL GRADING TO BE PERFORMED UNDER
 SEPARATE CONTRACT. SEE DETAIL FOR
 INTERIM TYPICAL SECTION ON SHEET 157 FOR
 ADDITIONAL INFORMATION.



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| PROFILE | | | | |
| PLAN 91 OF 348 | | | | |
| SCALE: unless noted H: 1"=40' V: 1"=8' | | DATE DRAWN OCT 2020 MS | | CH'K'D. APPR. SK MES |
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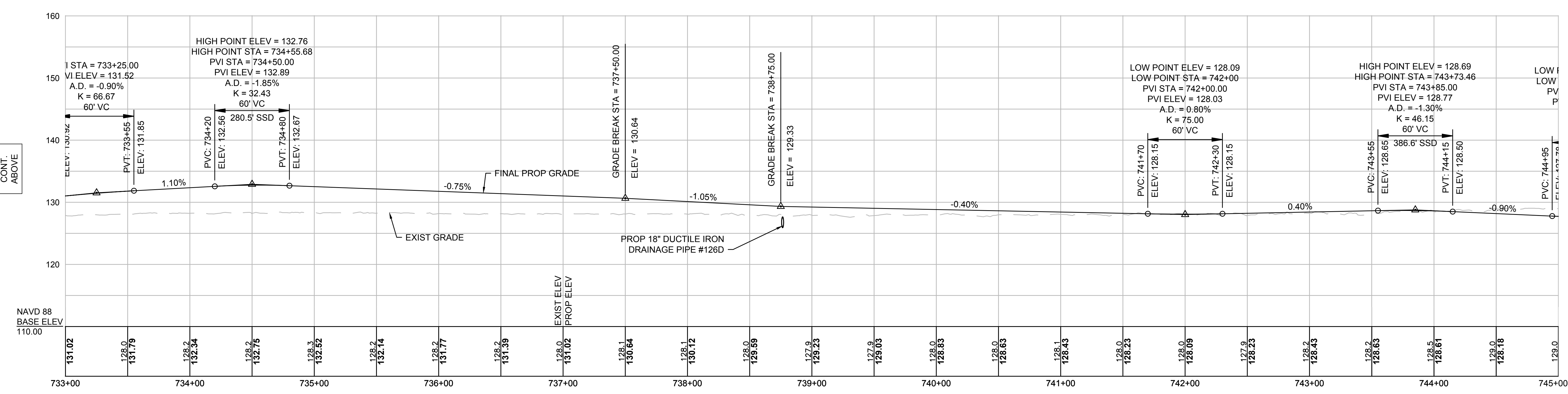
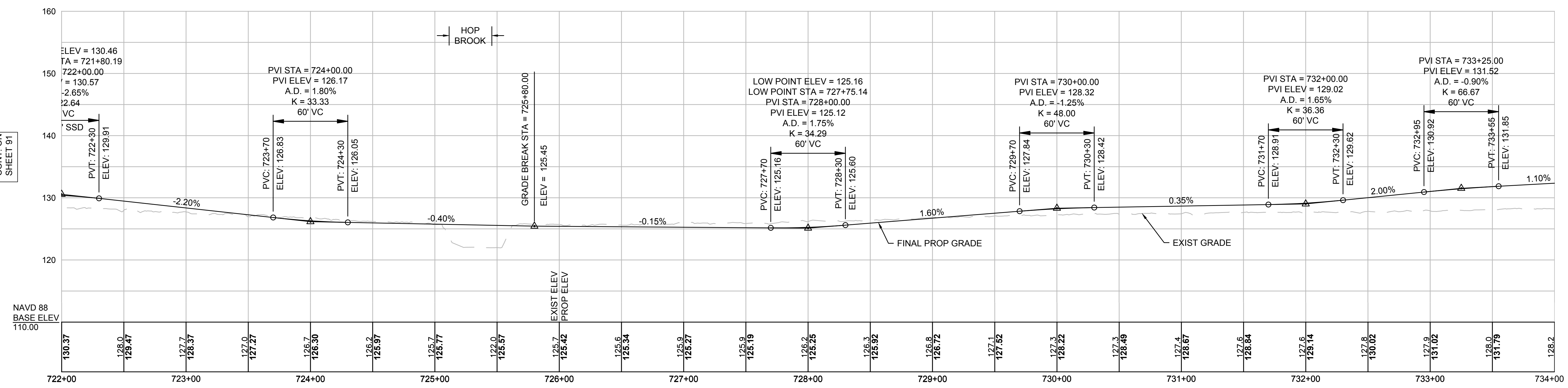
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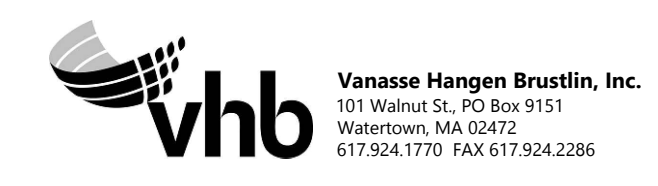
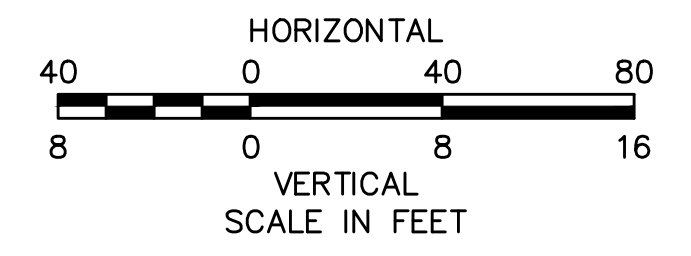
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NOTE:
 CONTRACTOR TO BUILD TO INTERIM PGL,
 WHICH IS 4" BELOW FINAL PGL SHOWN HERE.
 FINAL GRADING TO BE PERFORMED UNDER
 SEPARATE CONTRACT. SEE DETAIL FOR
 INTERIM TYPICAL SECTION ON SHEET 157 FOR
 ADDITIONAL INFORMATION.



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| PROFILE | | | | |
| PLAN 92 OF 348 | | | | |
| SCALE: unless noted H: 1"=40' V: 1"=8' | | DATE OCT 2020 | DRAWN MS | CHK'D SK |
| | | APPR. MES | DRAWING NO. REV. | |

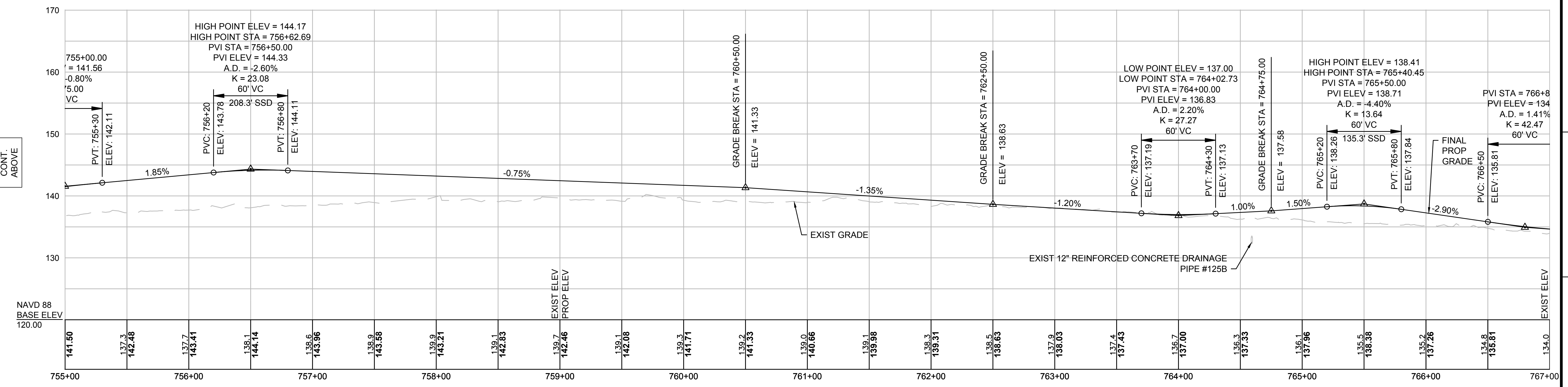
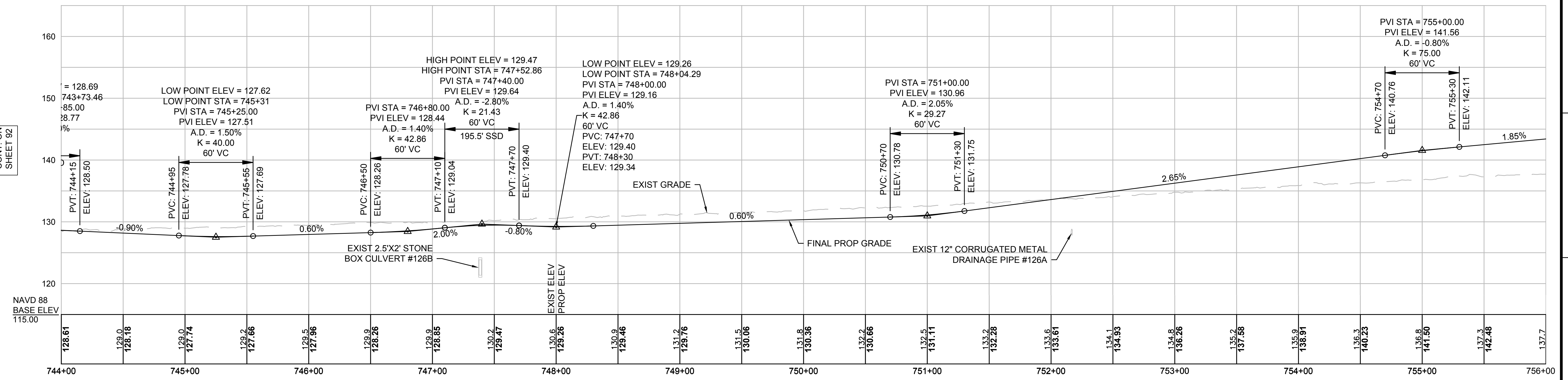
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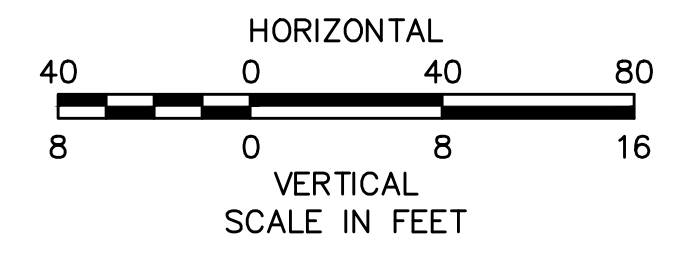
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CONT. ON SHEET 92

CONT. BELOW



NOTE:
CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.

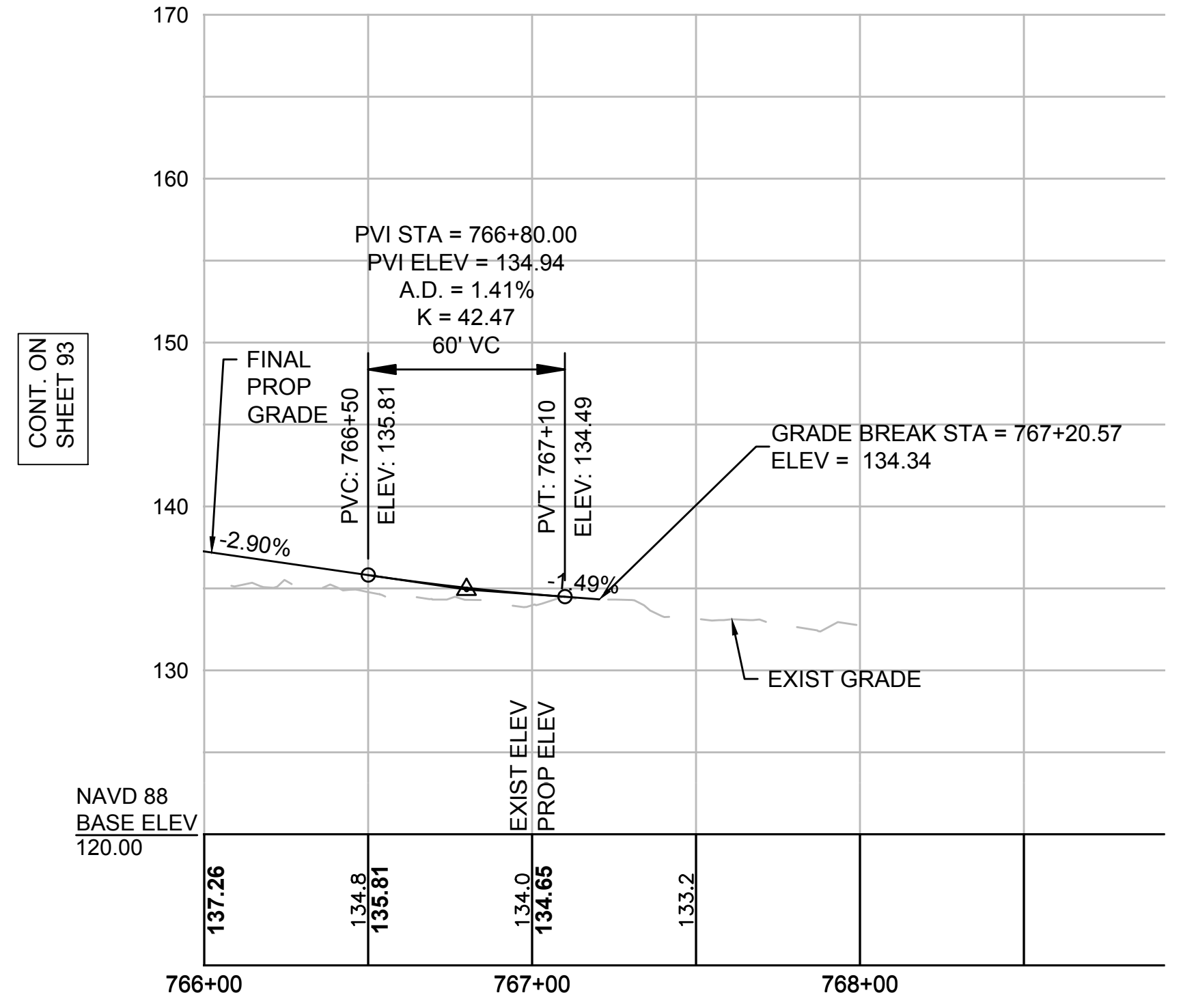


| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|-------------|----------|-------|-------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| PROFILE | | | | |
| PLAN 93 OF 348 | | | | |
| SCALE: unless noted H: 1"=40' V: 1"=8' | | DATE | DRAWN | CHK'D |
| | | OCT 2020 | MS | SK |
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| DRAWING NO. | REV. | | | |
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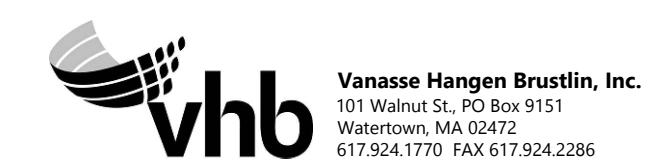
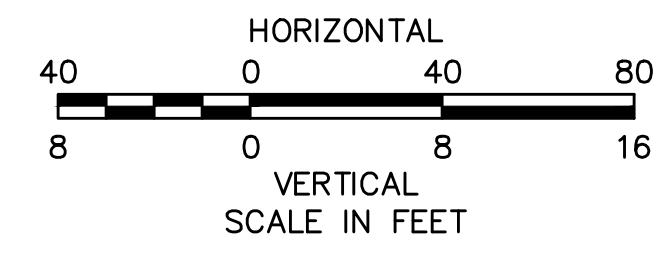
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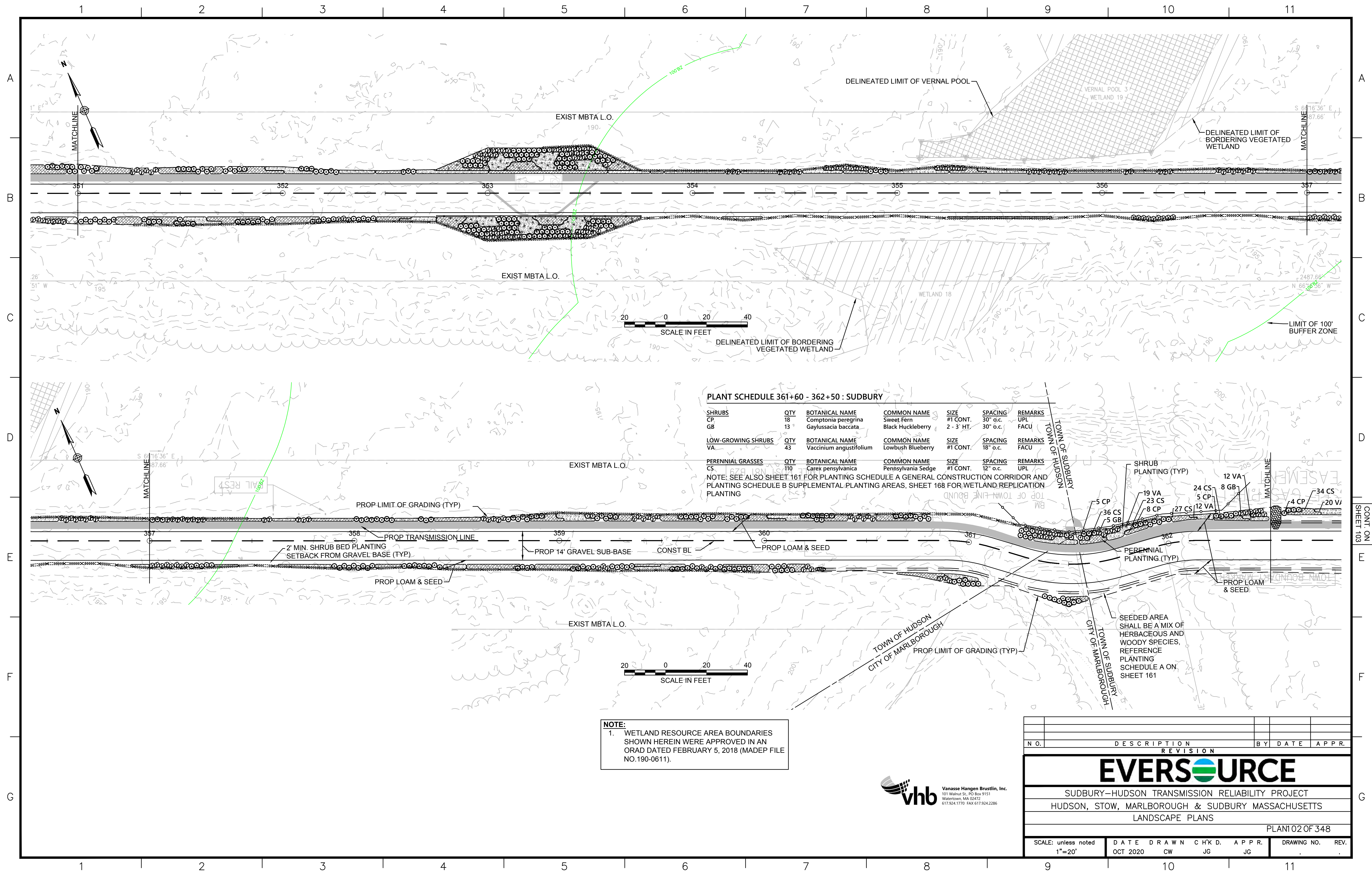
CONT. ON SHEET 93

NOTE:
CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.



| N O. | DESCRIPTION | BY | DATE | APPR. |
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| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| PROFILE | | | | |
| PLAN 94 OF 348 | | | | |
| SCALE: unless noted H: 1"=40' V: 1"=8' | | DATE OCT 2020 | DRAWN MS | CHK'D. SK |
| | | APPR. MES | DRAWING NO. REV. | |

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PLANT SCHEDULE 361+60 - 362+50 : SUDBURY

| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
|--------------------|-----|-------------------------|--------------------|------------|----------|---------|
| CP | 18 | Comptonia peregrina | Sweet Fern | #1 CONT. | 30" o.c. | UPL |
| GB | 13 | Gaylussacia baccata | Black Huckleberry | 2 - 3' HT. | 30" o.c. | FACU |
| LOW-GROWING SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| VA | 43 | Vaccinium angustifolium | Lowbush Blueberry | #1 CONT. | 18" o.c. | FACU |
| PERENNIAL GRASSES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| CS | 110 | Carex pensylvanica | Pennsylvania Sedge | #1 CONT. | 12" o.c. | UPL |

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND PLANTING SCHEDULE B SUPPLEMENTAL PLANTING AREAS, SHEET 168 FOR WETLAND REPLICATION PLANTING

NOTE:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).

| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 102 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D. JG | APPR. JG |
| DRAWING NO. | REV. | | | |



CONT. ON SHEET 103

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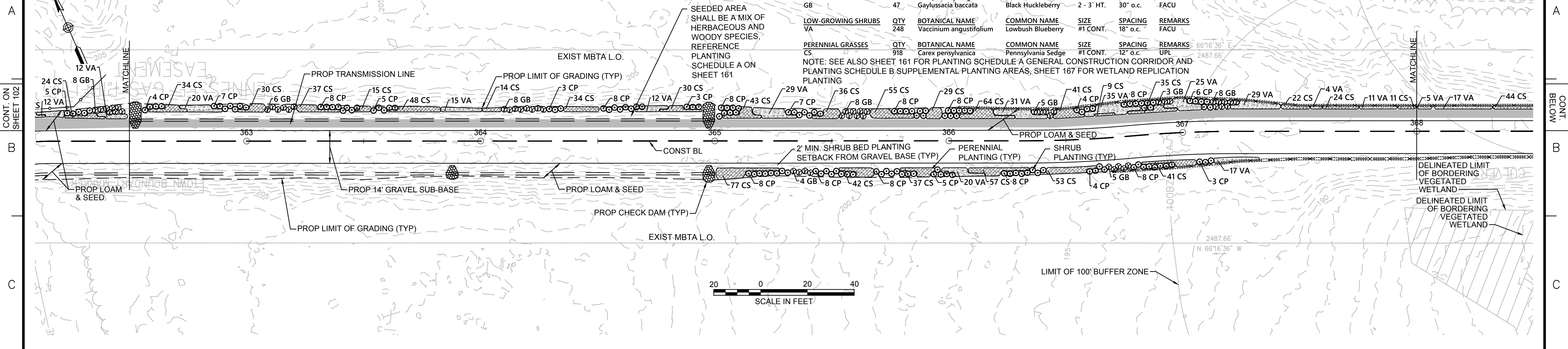
CONT. ON SHEET 102

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PLANT SCHEDULE 362+50 - 368+00

| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
|--------------------|-----|-------------------------|--------------------|------------|----------|---------|
| CP | 139 | Comptonia peregrina | Sweet Fern | #1 CONT. | 30" o.c. | UPL |
| GB | 47 | Gaylussacia baccata | Black Huckleberry | 2 - 3' HT. | 30" o.c. | FACU |
| LOW-GROWING SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| VA | 248 | Vaccinium angustifolium | Lowbush Blueberry | #1 CONT. | 18" o.c. | FACU |
| PERENNIAL GRASSES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| CS | 918 | Carex pensylvanica | Pennsylvania Sedge | #1 CONT. | 12" o.c. | UPL |

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND PLANTING SCHEDULE B SUPPLEMENTAL PLANTING AREAS, SHEET 167 FOR WETLAND REPLICATION



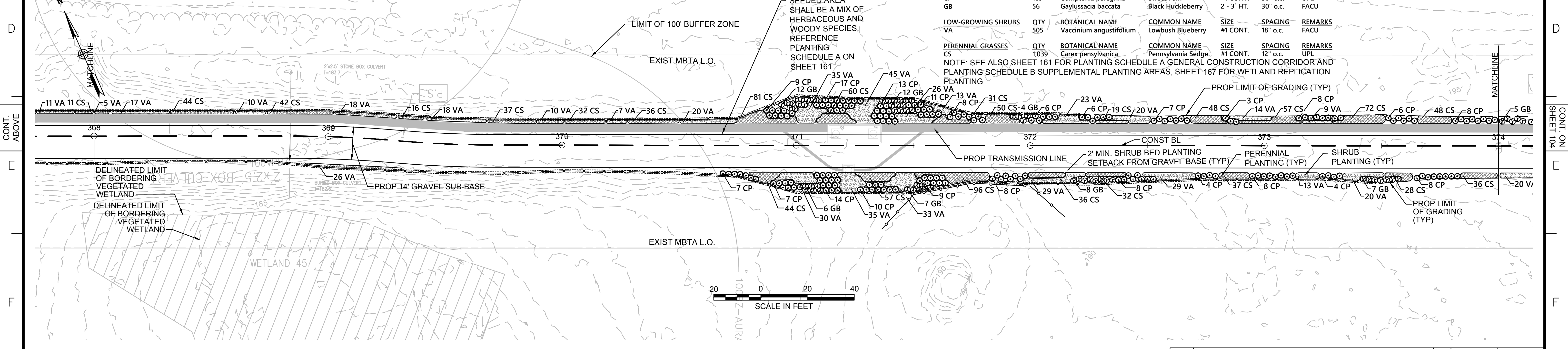
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CONT. ON SHEET 104

PLANT SCHEDULE 368+00 - 374+00

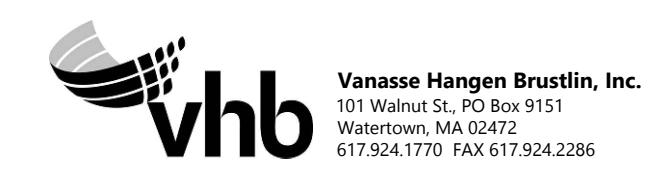
| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
|--------------------|-------|-------------------------|--------------------|------------|----------|---------|
| CP | 189 | Comptonia peregrina | Sweet Fern | #1 CONT. | 30" o.c. | UPL |
| GB | 56 | Gaylussacia baccata | Black Huckleberry | 2 - 3' HT. | 30" o.c. | FACU |
| LOW-GROWING SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| VA | 505 | Vaccinium angustifolium | Lowbush Blueberry | #1 CONT. | 18" o.c. | FACU |
| PERENNIAL GRASSES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| CS | 1,039 | Carex pensylvanica | Pennsylvania Sedge | #1 CONT. | 12" o.c. | UPL |

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND PLANTING SCHEDULE B SUPPLEMENTAL PLANTING AREAS, SHEET 167 FOR WETLAND REPLICATION



NOTES:
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO.301-1227).

| | | | | |
|---|-------------|-------|--------|-------|
| NO. | DESCRIPTION | BY | DATE | APPR. |
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 103 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE | DRAWN | CHK'D. | APPR. |
| | OCT 2020 | CW | JG | JG |
| DRAWING NO. | REV. | | | |
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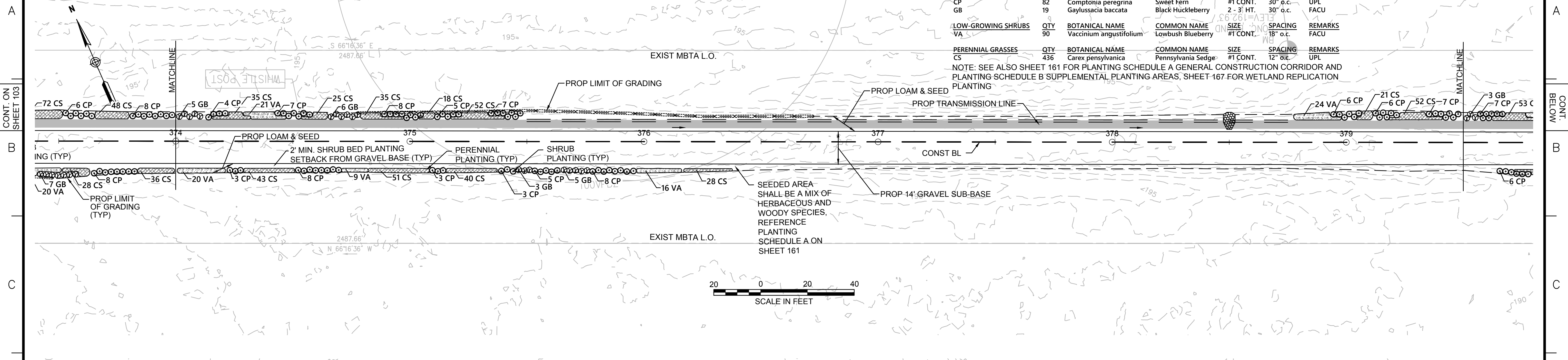
CONT. ON SHEET 103

CONT. BELOW SHEET 105

PLANT SCHEDULE 374+00 - 379+50

| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
|--------------------|-----|-------------------------|--------------------|------------|----------|---------|
| CP | 82 | Comptonia peregrina | Sweet Fern | #1 CONT. | 30" o.c. | UPL |
| GB | 19 | Gaylussacia baccata | Black Huckleberry | 2 - 3' HT. | 30" o.c. | FACU |
| LOW-GROWING SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| VA | 9 | Vaccinium angustifolium | Lowbush Blueberry | #1 CONT. | 18" o.c. | FACU |
| PERENNIAL GRASSES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| CS | 436 | Carex pensylvanica | Pennsylvania Sedge | #1 CONT. | 12" o.c. | UPL |

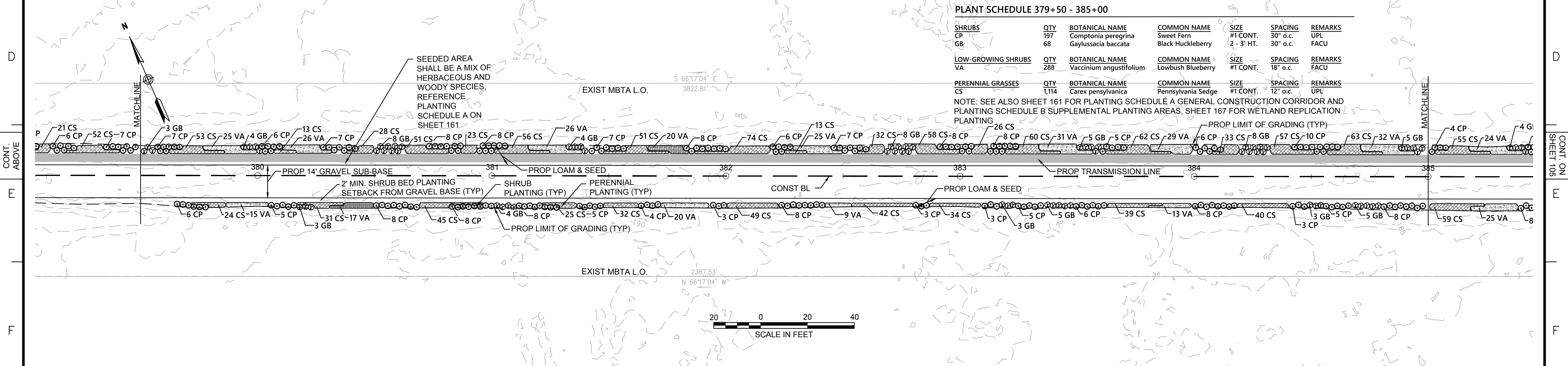
NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND PLANTING SCHEDULE B SUPPLEMENTAL PLANTING AREAS, SHEET 167 FOR WETLAND REPLICATION PLANTING



PLANT SCHEDULE 379+50 - 385+00

| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
|--------------------|-------|-------------------------|--------------------|------------|----------|---------|
| CP | 197 | Comptonia peregrina | Sweet Fern | #1 CONT. | 30" o.c. | UPL |
| GB | 68 | Gaylussacia baccata | Black Huckleberry | 2 - 3' HT. | 30" o.c. | FACU |
| LOW-GROWING SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| VA | 288 | Vaccinium angustifolium | Lowbush Blueberry | #1 CONT. | 18" o.c. | FACU |
| PERENNIAL GRASSES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| CS | 1,114 | Carex pensylvanica | Pennsylvania Sedge | #1 CONT. | 12" o.c. | UPL |

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND PLANTING SCHEDULE B SUPPLEMENTAL PLANTING AREAS, SHEET 167 FOR WETLAND REPLICATION PLANTING



NOTE:
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MAEPD FILE NO.301-1227).



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
LANDSCAPE PLANS

PLANT 04 OF 348

| | | | | | | |
|-------------------------------|------------------|-------------|--------------|-------------|-------------|------|
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D. JG | APPR. JG | DRAWING NO. | REV. |
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CONT. ABOVE SHEET 105

CONT. ON SHEET 105

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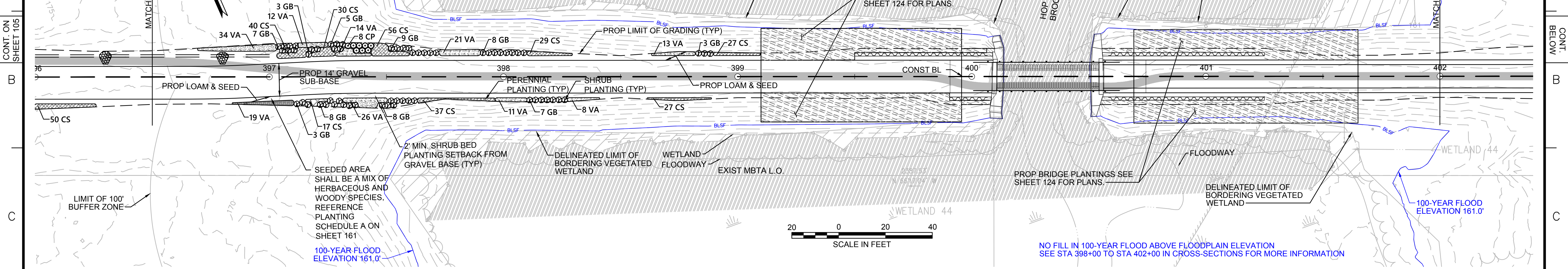
CONT. ON SHEET 105

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PLANT SCHEDULE 396+50 - 402+00

| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
|--------------------|-----|--------------------------------|--------------------|----------|----------|---------|
| CP | 8 | <i>Comptonia peregrina</i> | Sweet Fern | #1 CONT. | 30' o.c. | UPL |
| GB | 61 | <i>Gaylussacia baccata</i> | Black Huckleberry | 2-3' HT. | 30' o.c. | FACU |
| LOW-GROWING SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| VA | 158 | <i>Vaccinium angustifolium</i> | Lowbush Blueberry | #1 CONT. | 18' o.c. | FACU |
| PERENNIAL GRASSES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| CS | 263 | <i>Carex pensylvanica</i> | Pennsylvania Sedge | #1 CONT. | 12' o.c. | UPL |

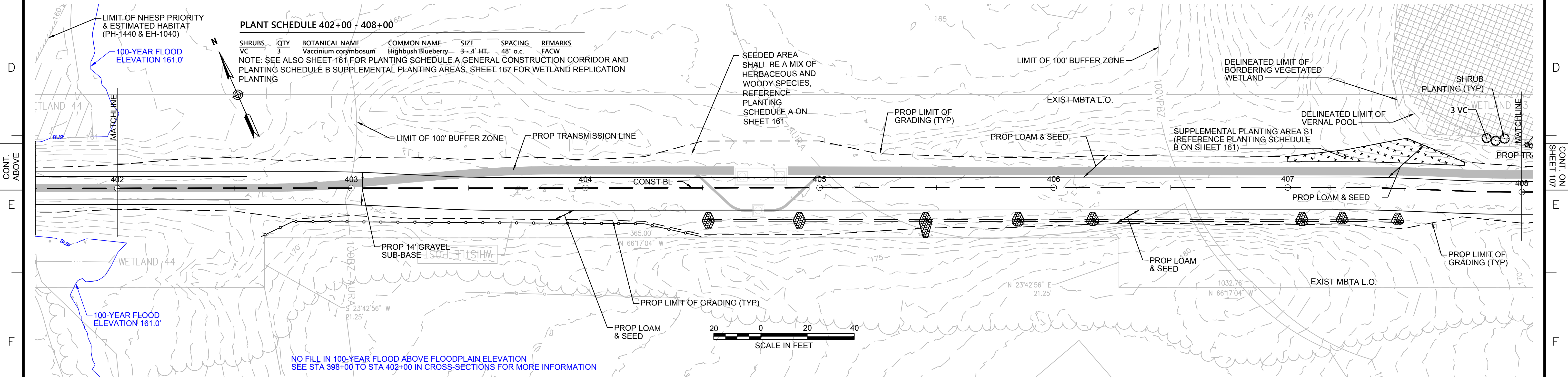
NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND PLANTING SCHEDULE B SUPPLEMENTAL PLANTING AREAS, SHEET 167 FOR WETLAND REPLICATION PLANTING



PLANT SCHEDULE 402+00 - 408+00

| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
|--------|-----|-----------------------------|--------------------|----------|----------|---------|
| VC | 3 | <i>Vaccinium corymbosum</i> | Highbush Blueberry | 3-4' HT. | 48' o.c. | FACW |

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND PLANTING SCHEDULE B SUPPLEMENTAL PLANTING AREAS, SHEET 167 FOR WETLAND REPLICATION PLANTING



NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO.301-1227).



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|-------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 106 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D. JG | APPR. JG |
| DRAWING NO. | REV. | | | |

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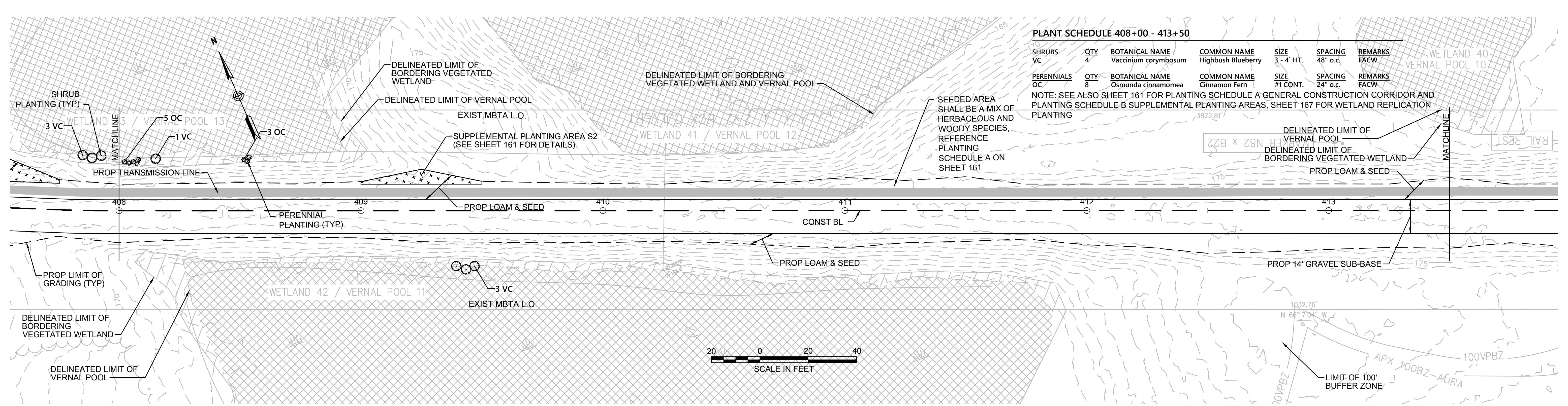
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PLANT SCHEDULE 408+00 - 413+50

| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
|------------|-----|----------------------|--------------------|-----------|----------|---------|
| VC | 4 | Vaccinium corymbosum | Highbush Blueberry | 3 - 4 HT. | 48" o.c. | FACW |
| PERENNIALS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| OC | 8 | Osmunda cinnamomea | Cinnamon Fern | #1 CONT. | 24" o.c. | FACW |

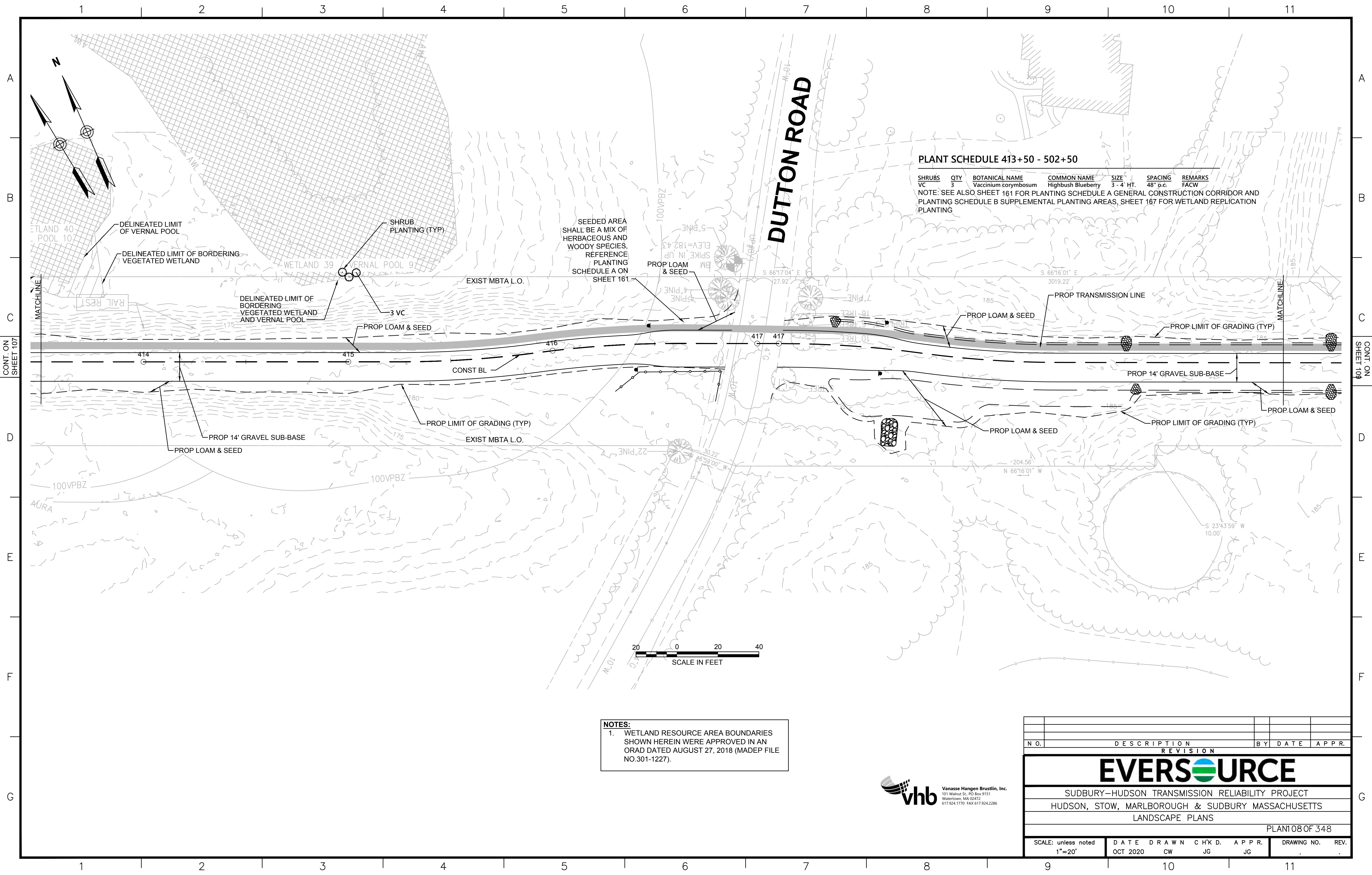
NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND PLANTING SCHEDULE B SUPPLEMENTAL PLANTING AREAS, SHEET 167 FOR WETLAND REPLICATION PLANTING

NOTE:
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO.301-1227).



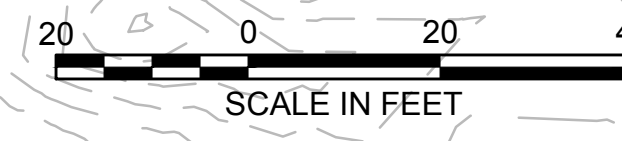
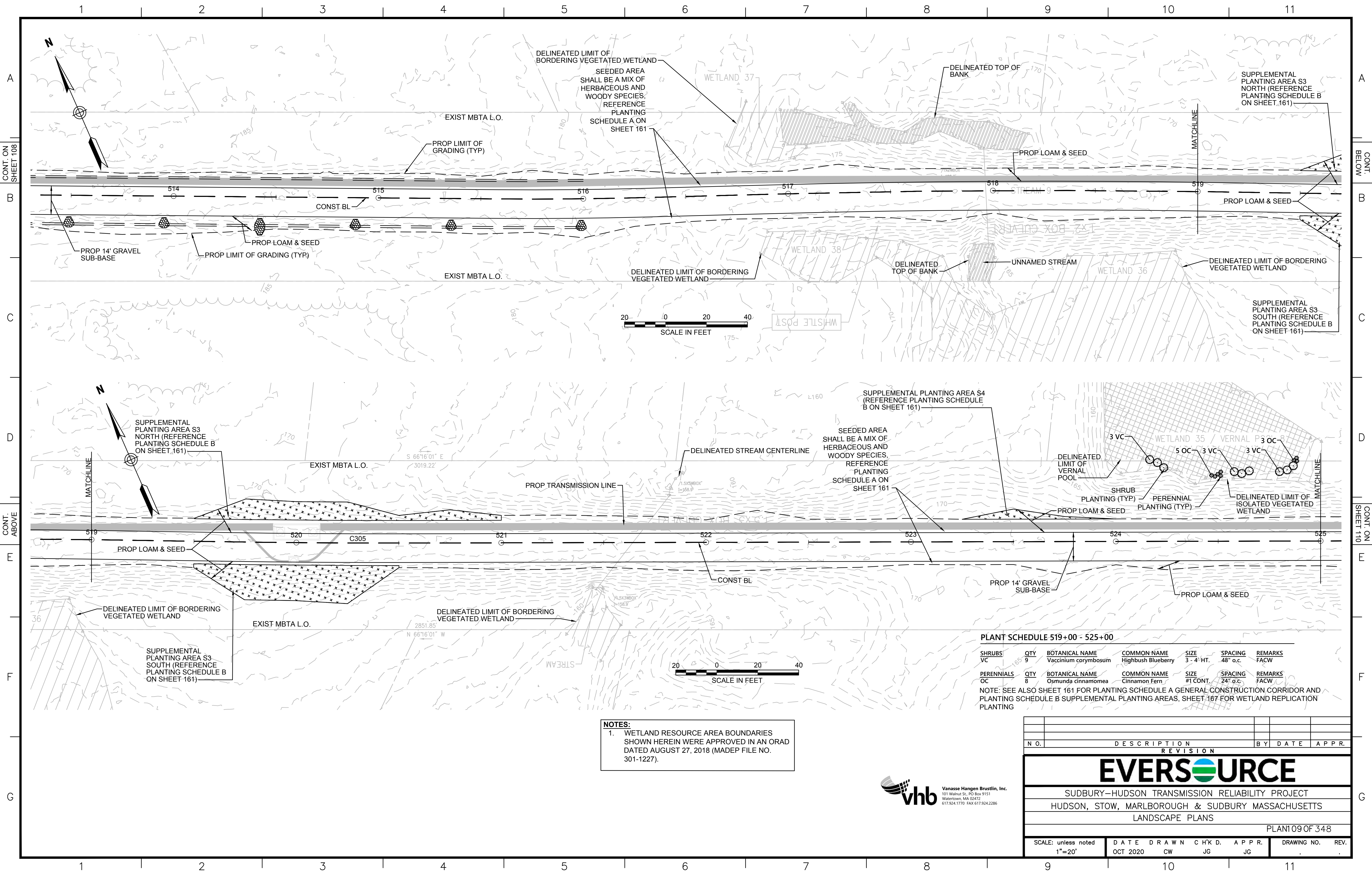
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| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 107 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D. JG | APPR. JG |
| DRAWING NO. | REV. | | | |

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| NO. | DESCRIPTION | BY | DATE | APPR. |
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| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 108 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D. JG | APPR. JG |
| DRAWING NO. | REV. | | | |





NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).

PLANT SCHEDULE 519+00 - 525+00

| SHRUBS/VC | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
|---------------|-----|----------------------|--------------------|-----------|----------|---------|
| VC | 9 | Vaccinium corymbosum | Highbush Blueberry | 3'-4' HT. | 48" o.c. | FACW |
| PERENNIALS/OC | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| OC | 8 | Osmunda cinnamomea | Cinnamon Fern | #1 CONT. | 24" o.c. | FACW |

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND PLANTING SCHEDULE B SUPPLEMENTAL PLANTING AREAS. SHEET 167 FOR WETLAND REPLICATION PLANTING

| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|-------------|-------|-------|-------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 109 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE | DRAWN | CHK'D | APPR. |
| | OCT 2020 | CW | JG | JG |
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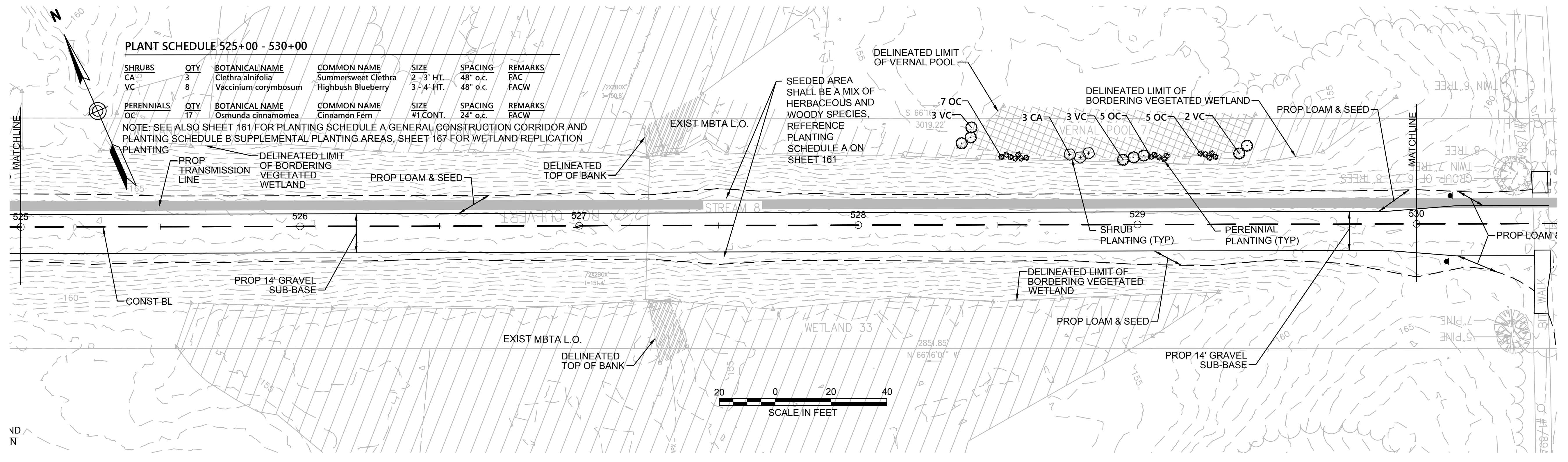
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PLANT SCHEDULE 525+00 - 530+00

| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
|--------|-----|----------------------|---------------------|------------|----------|---------|
| CA | 3 | Clethra alnifolia | Summersweet Clethra | 2 - 3' HT. | 48" o.c. | FAC |
| VC | 8 | Vaccinium corymbosum | Highbush Blueberry | 3 - 4' HT. | 48" o.c. | FACW |

| PERENNIALS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
|------------|-----|--------------------|---------------|----------|----------|---------|
| OC | 17 | Osmunda cinnamomea | Cinnamon Fern | #1 CONT. | 24" o.c. | FACW |

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND PLANTING SCHEDULE B SUPPLEMENTAL PLANTING AREAS, SHEET 167 FOR WETLAND REPLICATION



NOTE:
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|-------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 11 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D. JG | APPR. JG |
| DRAWING NO. | REV. | | | |

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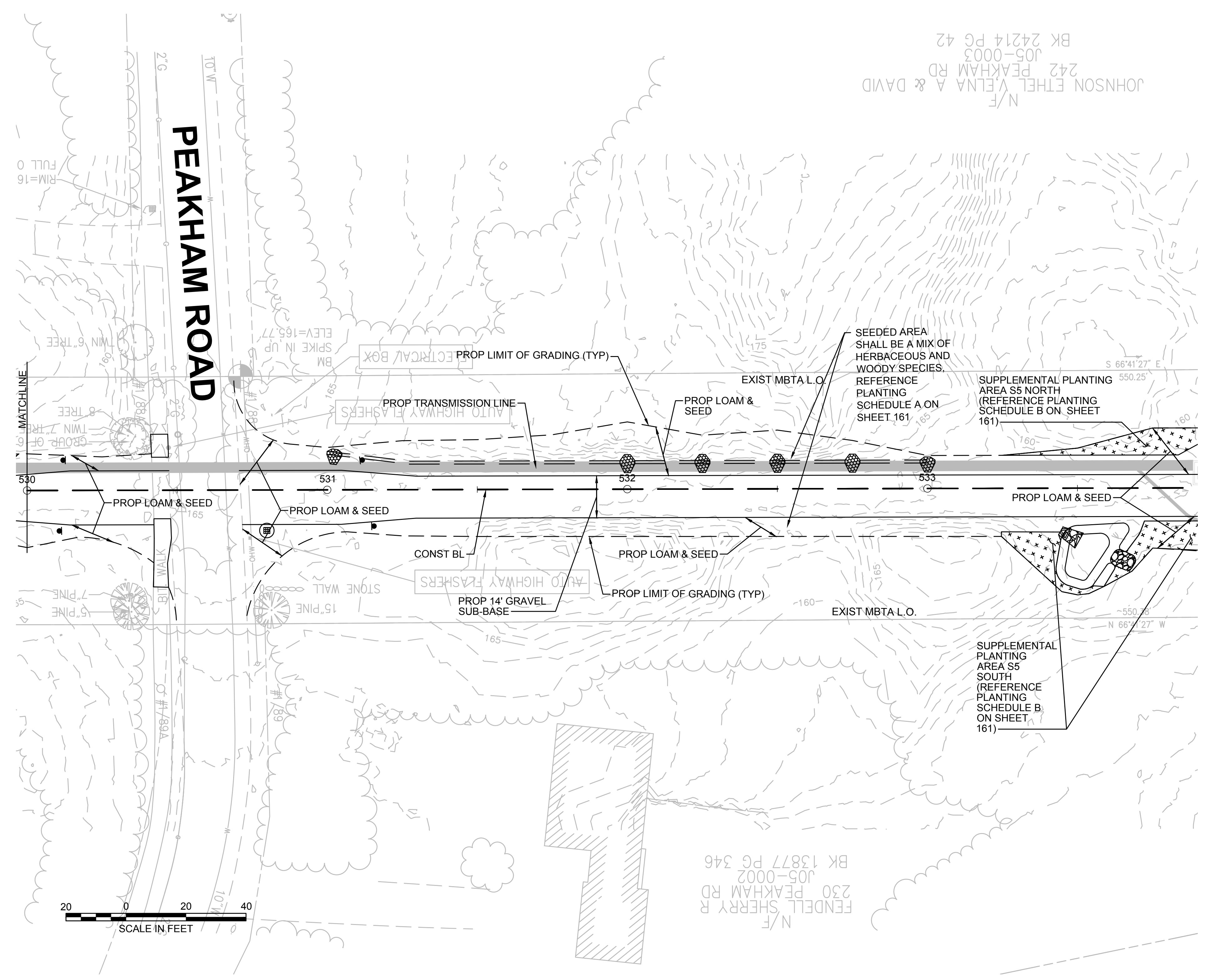
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JOHNSON ETHEL VELNA A & DAVID
242 PEAKHAM RD
J05-0003
BK 24214 PG 42
N/F

FENDELL SHERRY R
230 PEAKHAM RD
J05-0002
BK 13877 PG 346
N/F

PEAKHAM ROAD



NOTE:
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).

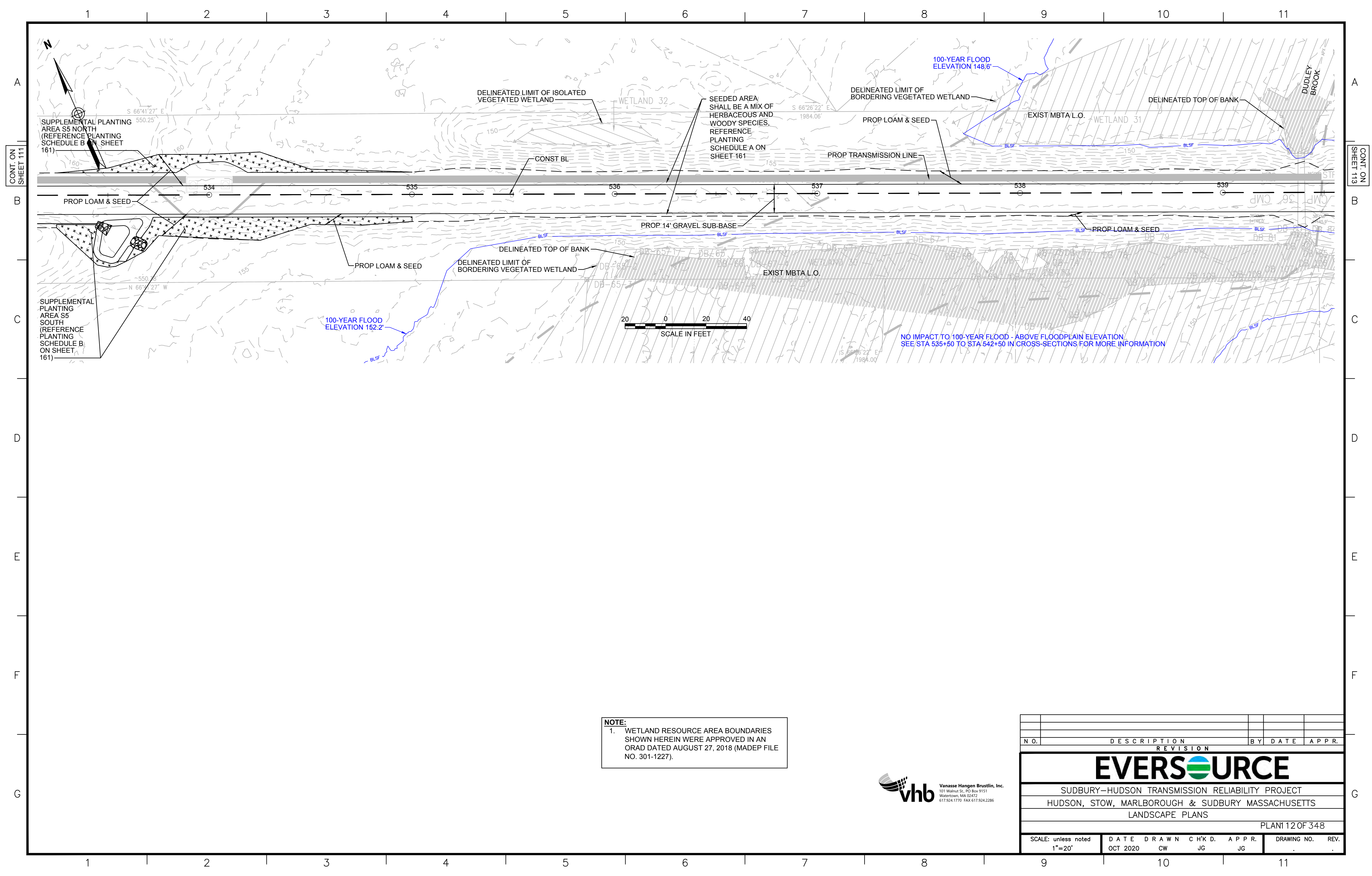


| NO. | | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|-------------|------------------|
| REVISION | | | | | |
| EVERSOURCE | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | |
| LANDSCAPE PLANS | | | | | |
| PLAN 111 OF 348 | | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D. JG | APPR. JG | DRAWING NO. REV. |

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CONT. ON SHEET 110

CONT. ON SHEET 112



NOTE:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).



| REVISION | | | |
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| N.O. | DESCRIPTION | BY | DATE |
| | | | |
| | | | |

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 LANDSCAPE PLANS

PLAN 112 OF 348

| | | | | | | |
|-------------------------------|------------------|-------------|--------------|-------------|-------------|------|
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D. JG | APPR. JG | DRAWING NO. | REV. |
|-------------------------------|------------------|-------------|--------------|-------------|-------------|------|

1 2 3 4 5 6 7 8 9 10 11

CONT. ON SHEET 112

CONT. ON SHEET 114

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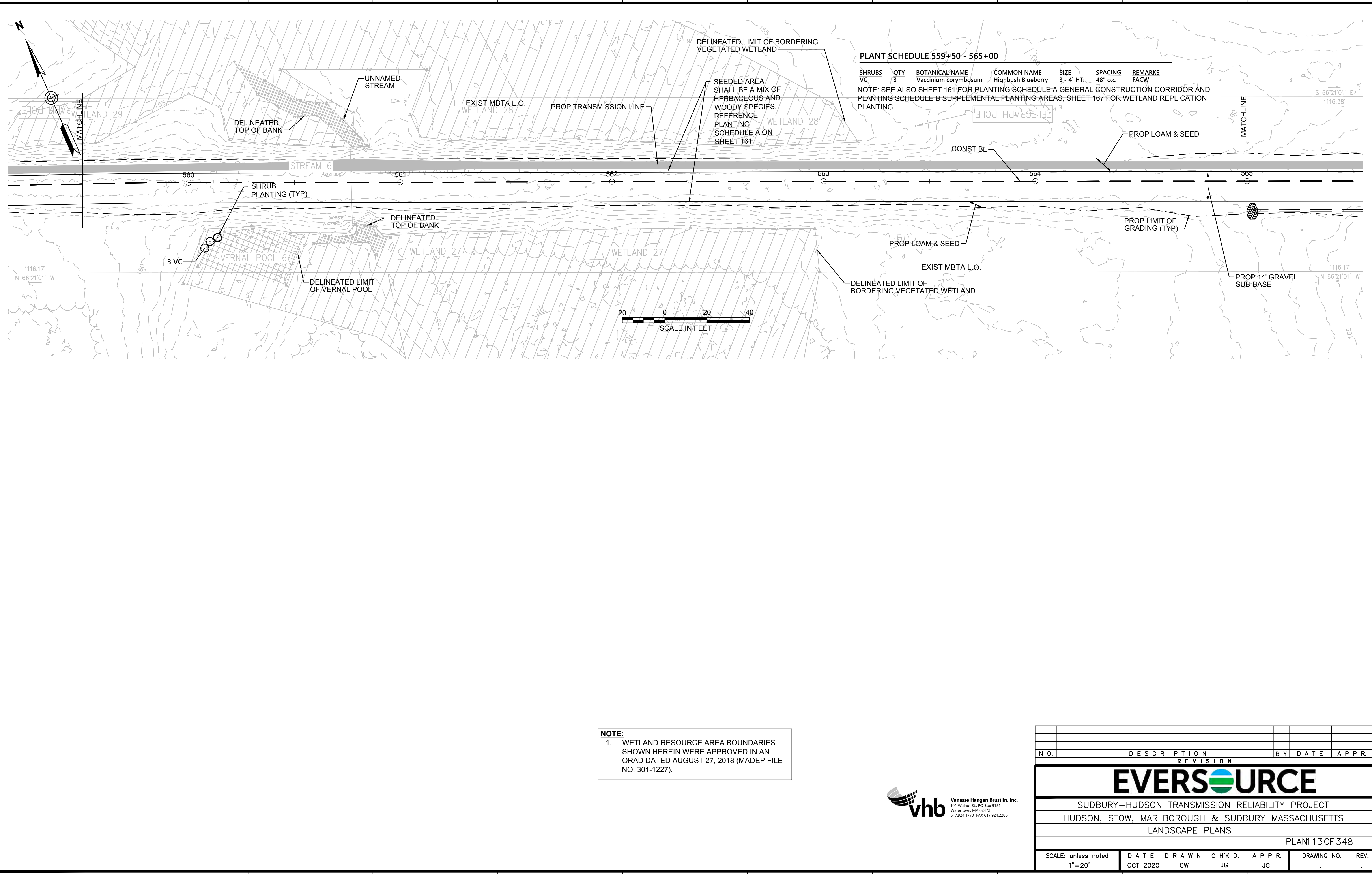
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PLANT SCHEDULE 559+50 - 565+00

| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
|--------|-----|----------------------|--------------------|-----------|----------|---------|
| VC | 3 | Vaccinium corymbosum | Highbush Blueberry | 3'-4' HT. | 48" o.c. | FACW |

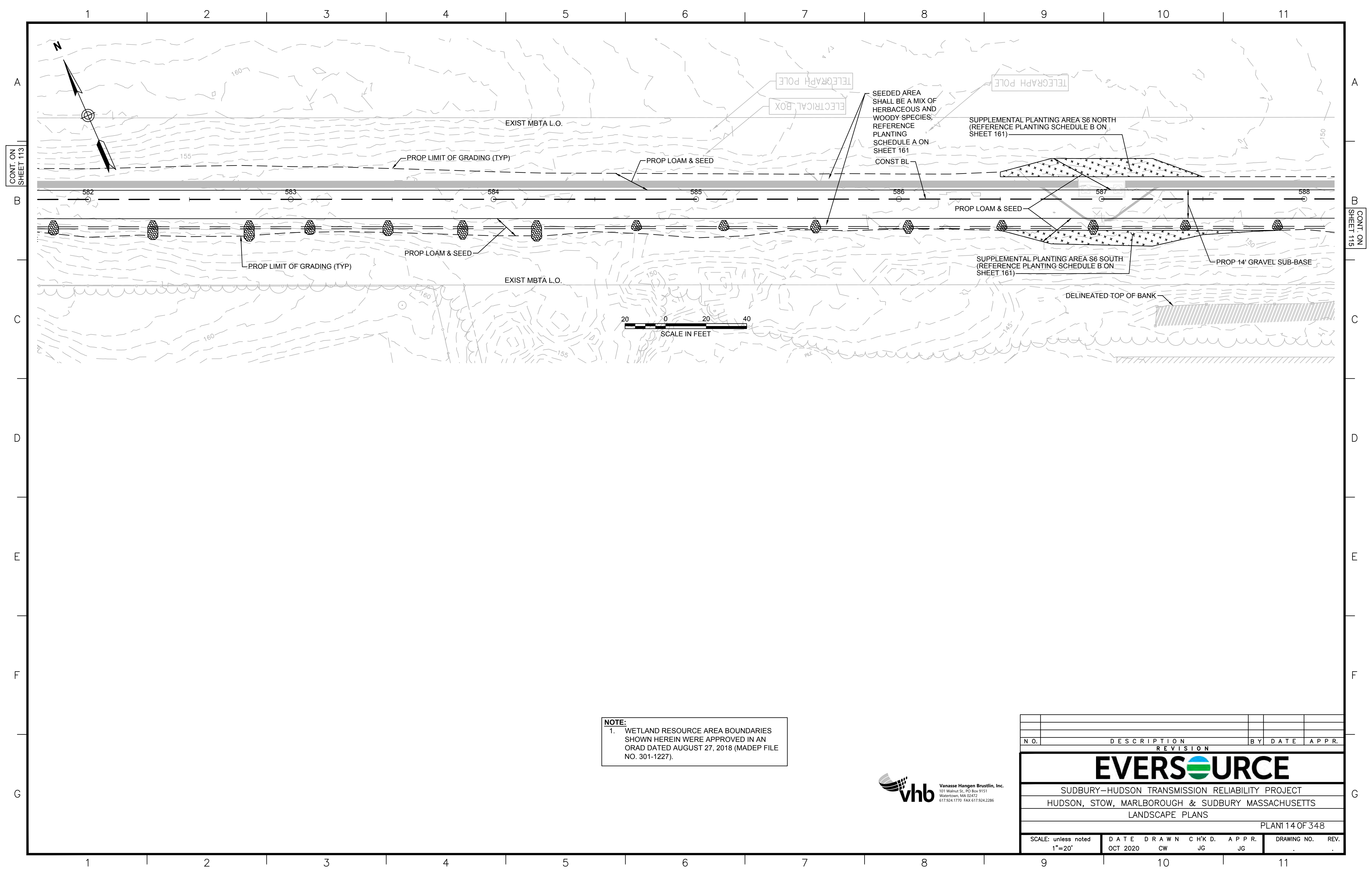
NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND PLANTING SCHEDULE B SUPPLEMENTAL PLANTING AREAS. SHEET 167 FOR WETLAND REPLICATION PLANTING

NOTE:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|-------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 113 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D. JG | APPR. JG |
| DRAWING NO. | REV. | | | |

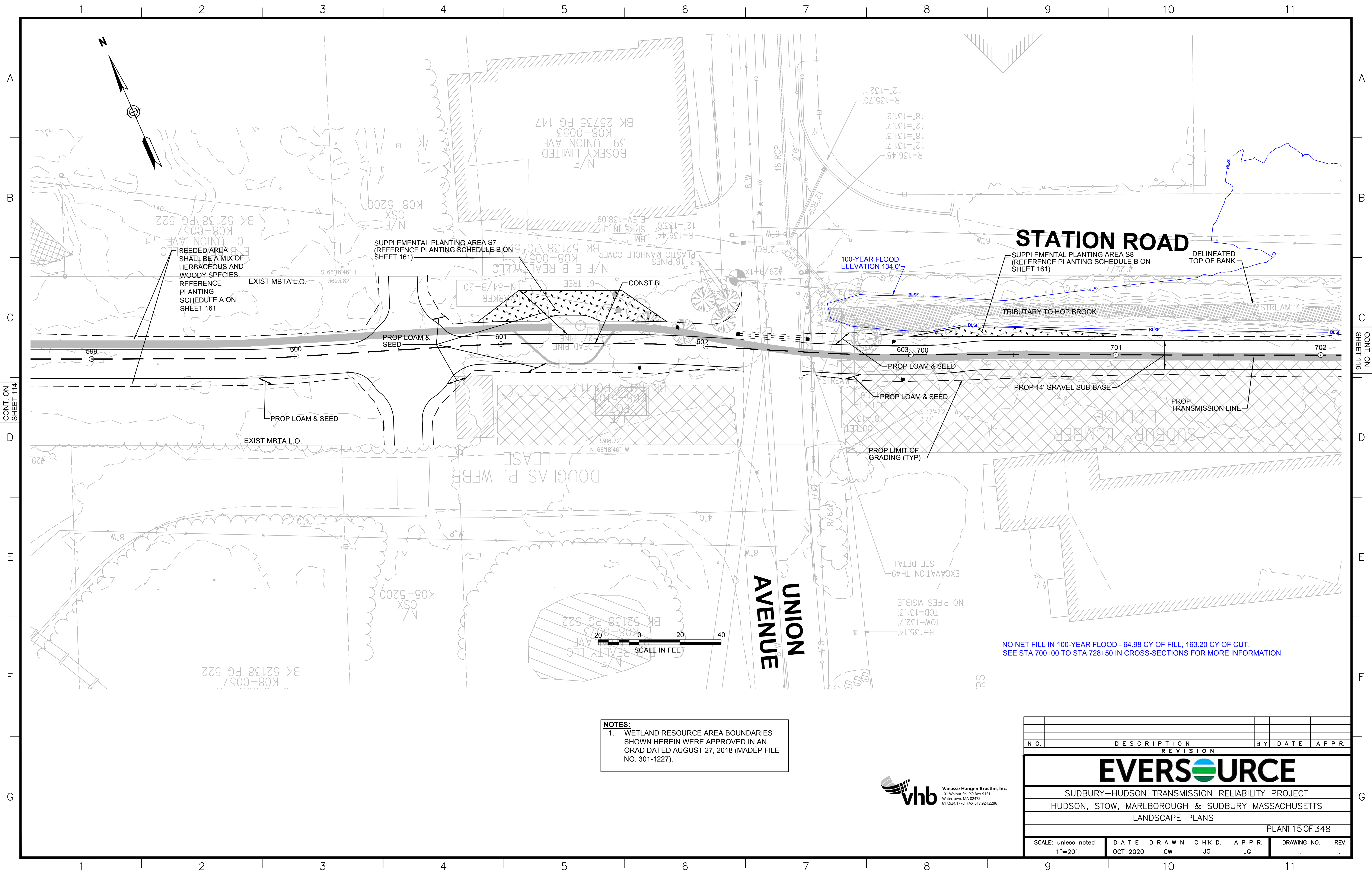
1 2 3 4 5 6 7 8 9 10 11



NOTE:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|---------------|-------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 14 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CH'K D. JG | APPR. JG |
| DRAWING NO. | REV. | | | |



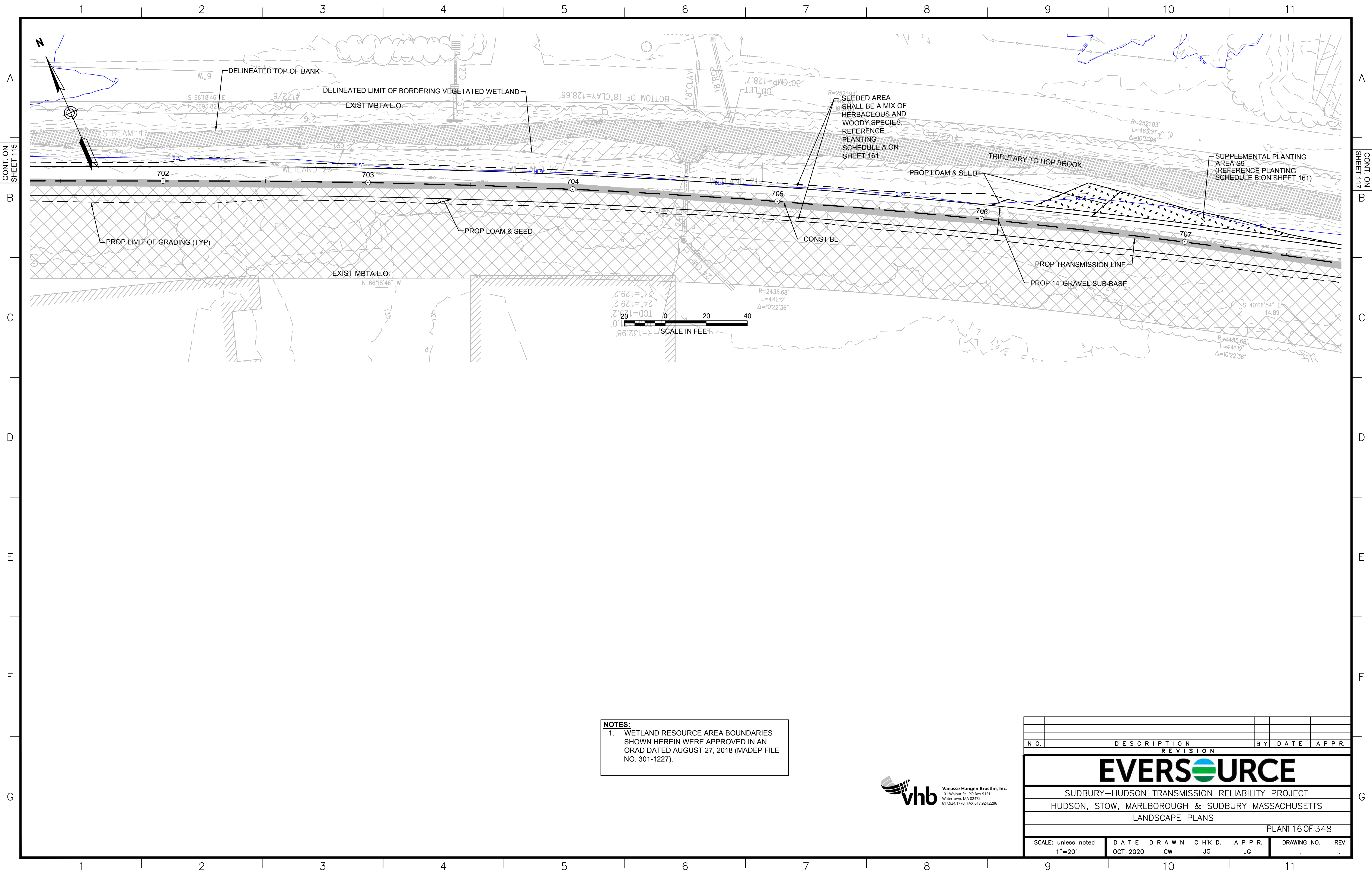
CONT. ON SHEET 114

CONT. ON SHEET 116

NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).



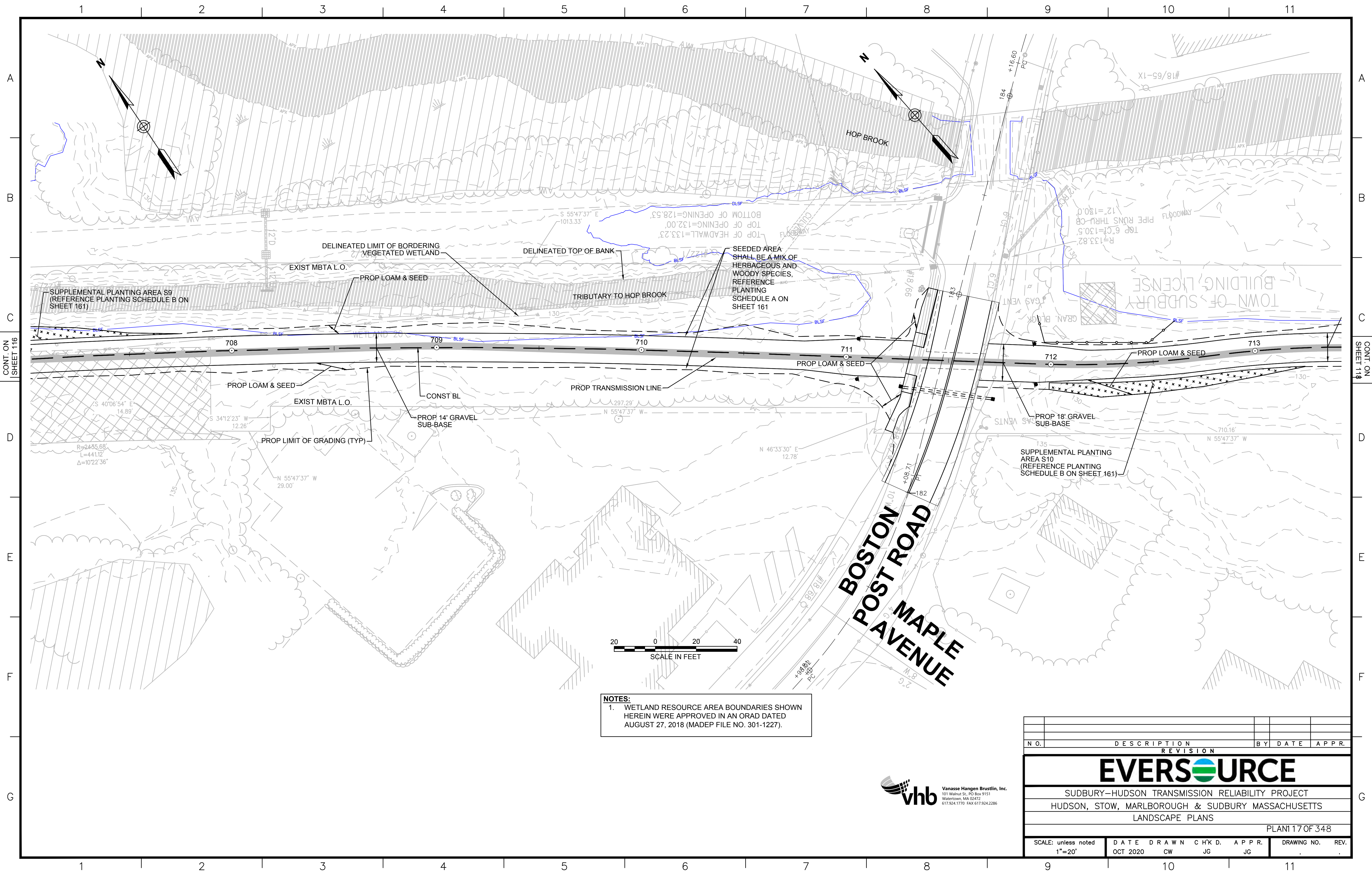
| NO. | | DESCRIPTION | BY | DATE | APPR. |
|---|----------|-------------|--------|-------|------------------|
| EVERSOURCE | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | |
| LANDSCAPE PLANS | | | | | |
| PLAN 115 OF 348 | | | | | |
| SCALE: unless noted 1"=20' | DATE | DRAWN | CHK'D. | APPR. | DRAWING NO. REV. |
| | OCT 2020 | CW | JG | JG | |



NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).



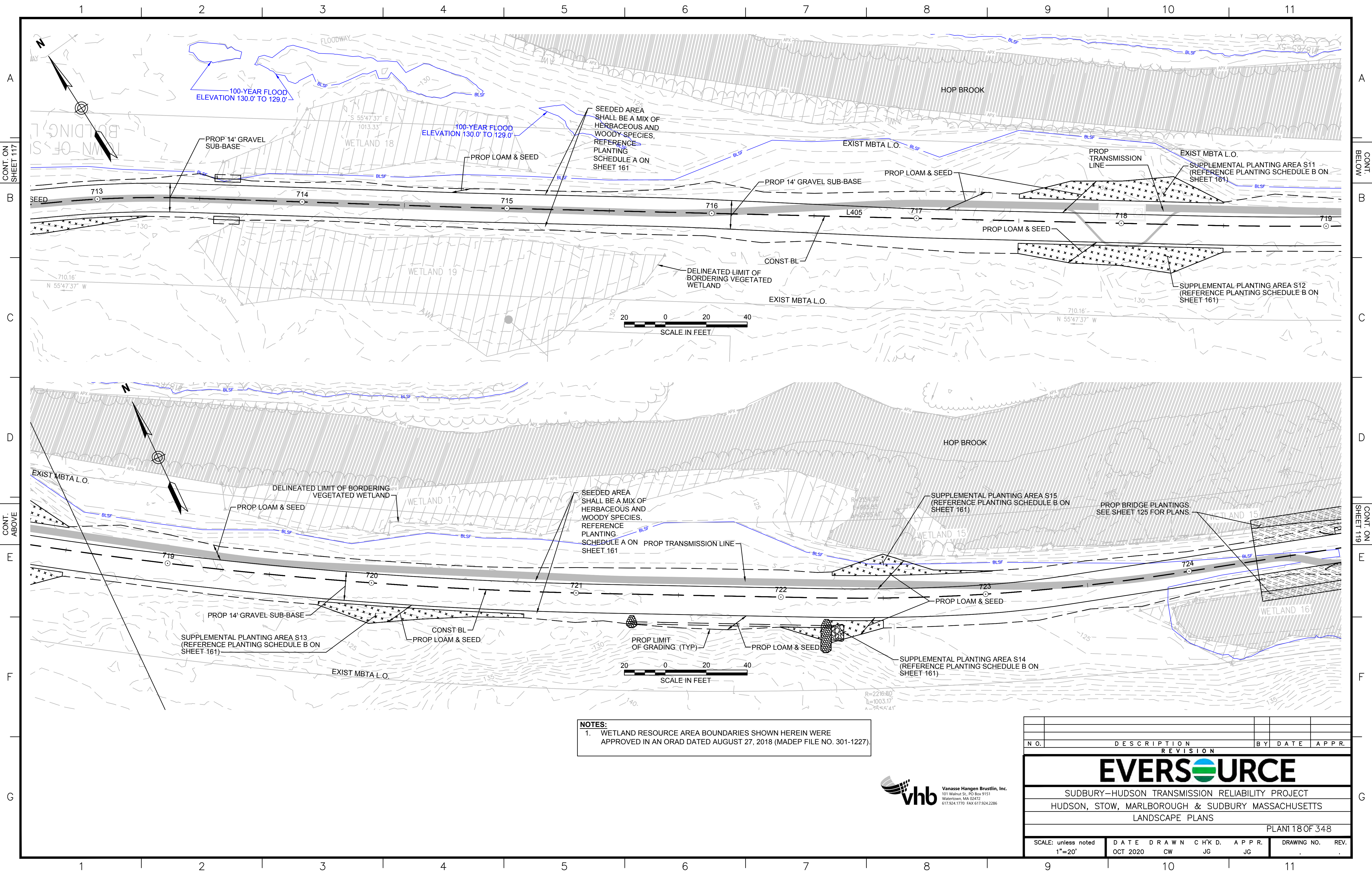
| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|-------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 116 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D. JG | APPR. JG |
| DRAWING NO. | | | | REV. |



NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).



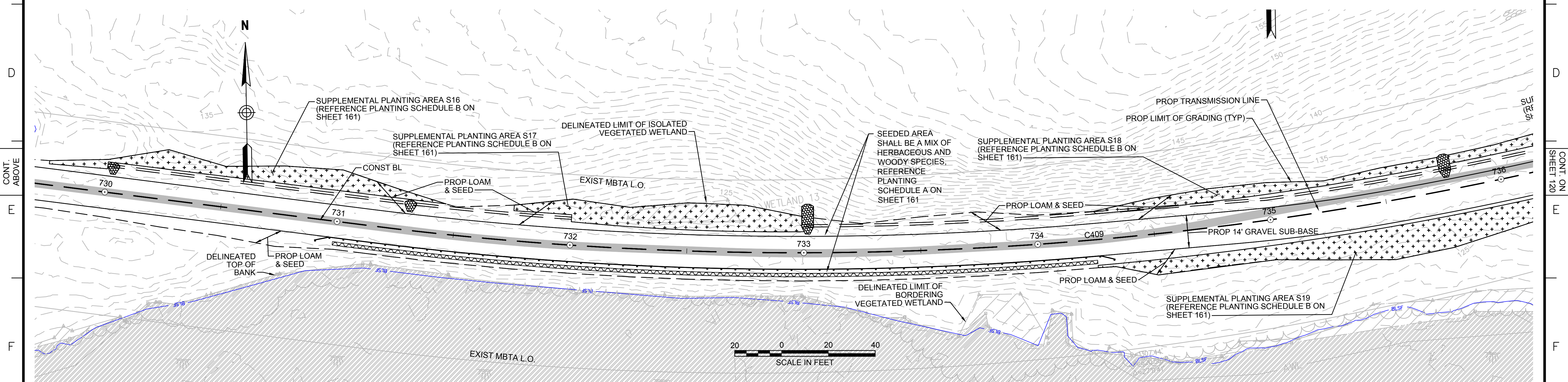
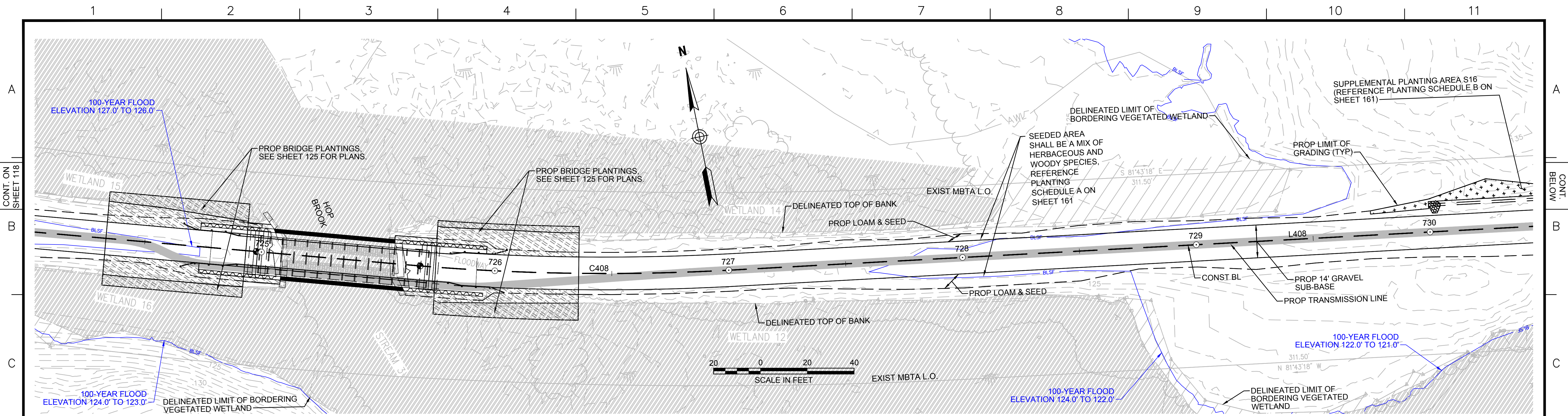
| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|------------------|
| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 117 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D. JG | APPR. JG |
| | | | | DRAWING NO. REV. |



NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).



| NO. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|-------------|
| | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 18 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D. JG | APPR. JG |
| DRAWING NO. | REV. | | | |



NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).



| REVISION | | | |
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| N.O. | DESCRIPTION | BY | DATE |
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 LANDSCAPE PLANS

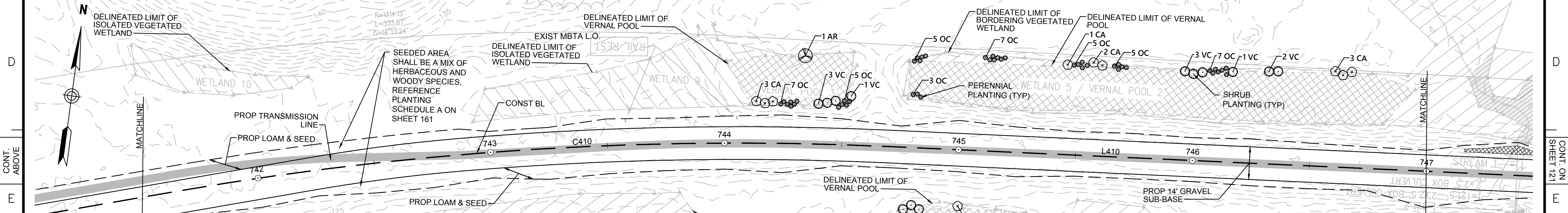
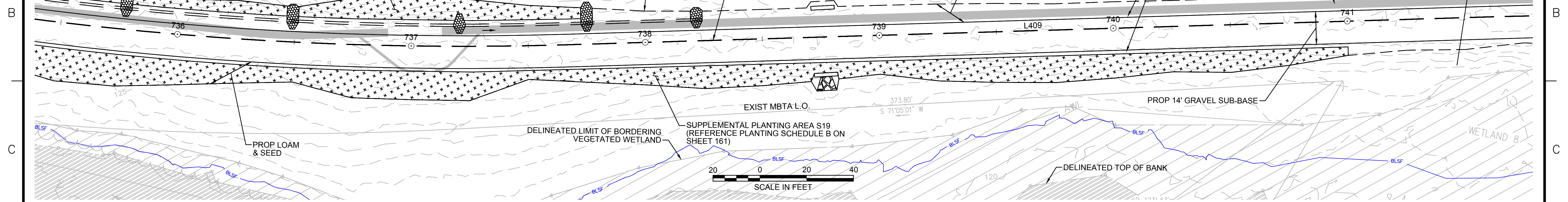
PLAN 119 OF 348

| | | | | | | |
|-------------------------------|------------------|-------------|-------------|----------------|-------------|------|
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D JG | A.P.P.R. JG | DRAWING NO. | REV. |
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CONT. ON SHEET 119

CONT. BELOW



PLANT SCHEDULE 741+50 - 747+00

| DECIDUOUS TREES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | REMARKS | |
|-----------------|-----|----------------------|---------------------|------------|----------|---------|
| AR | 1 | Acer rubrum | Red Maple | 1 1/2" CAL | FAC | |
| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| CA | 10 | Clethra alnifolia | Summersweet Clethra | 2 - 3' HT. | 48" o.c. | FAC |
| VC | 14 | Vaccinium corymbosum | Highbush Blueberry | 3 - 4' HT. | 48" o.c. | FACW |
| PERENNIALS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | REMARKS |
| OC | 44 | Osmunda cinnamomea | Cinnamon Fern | #1 CONT. | 24" o.c. | FACW |

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND PLANTING SCHEDULE B SUPPLEMENTAL PLANTING AREAS, SHEET 167 FOR WETLAND REPLICATION

NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|-------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 120 OF 348 | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D. JG | APPR. JG |
| DRAWING NO. | REV. | | | |

1 2 3 4 5 6 7 8 9 10 11

CONT. ABOVE

CONT. ON SHEET 121



1 2 3 4 5 6 7 8 9 10 11

CONT. ON SHEET 120

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CONT. ABOVE

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CONT. BELOW

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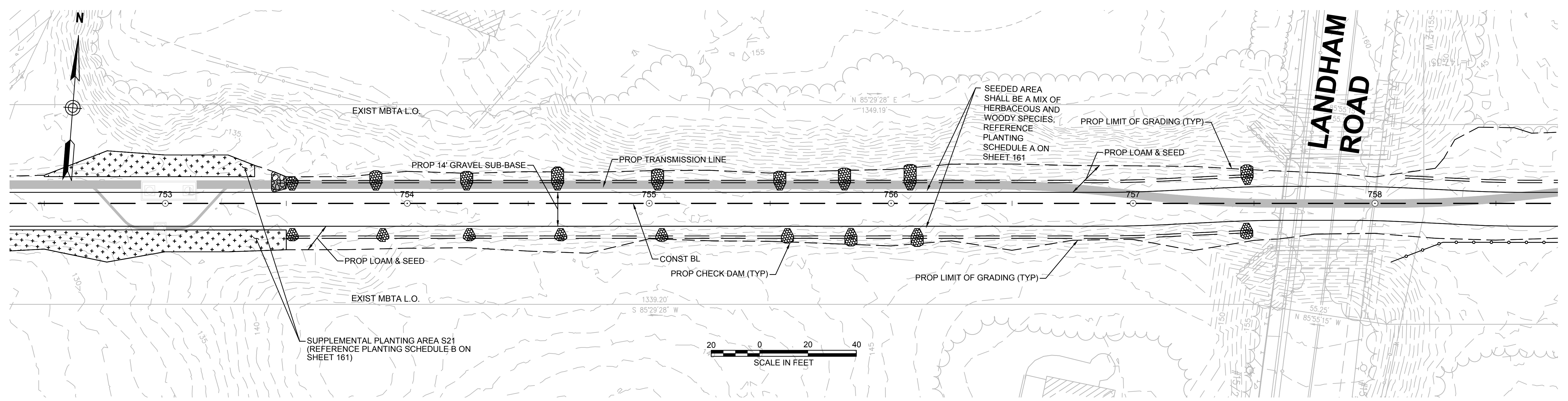
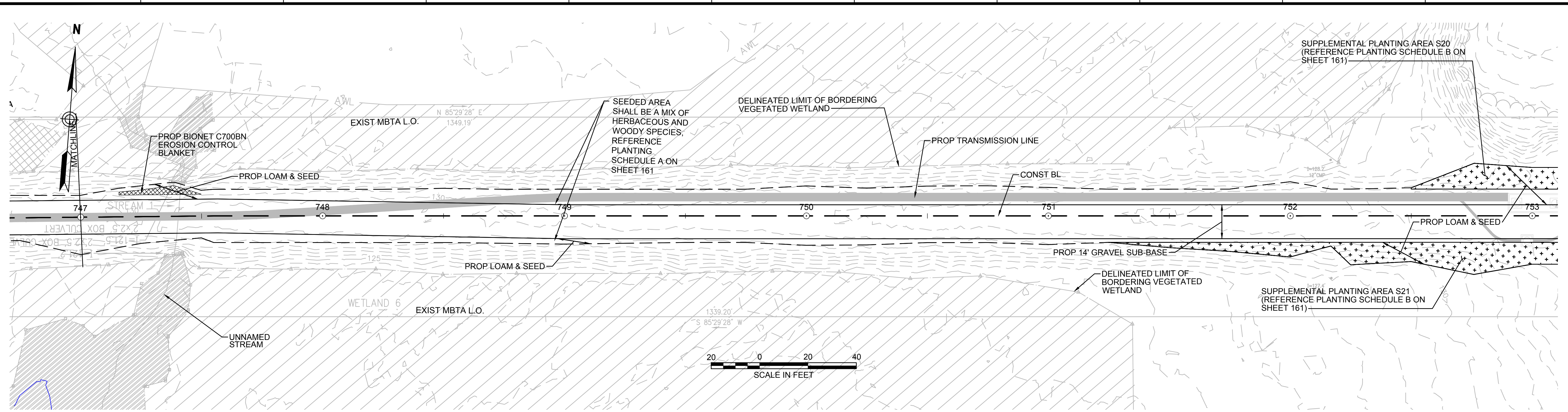
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CONT. ON SHEET 122

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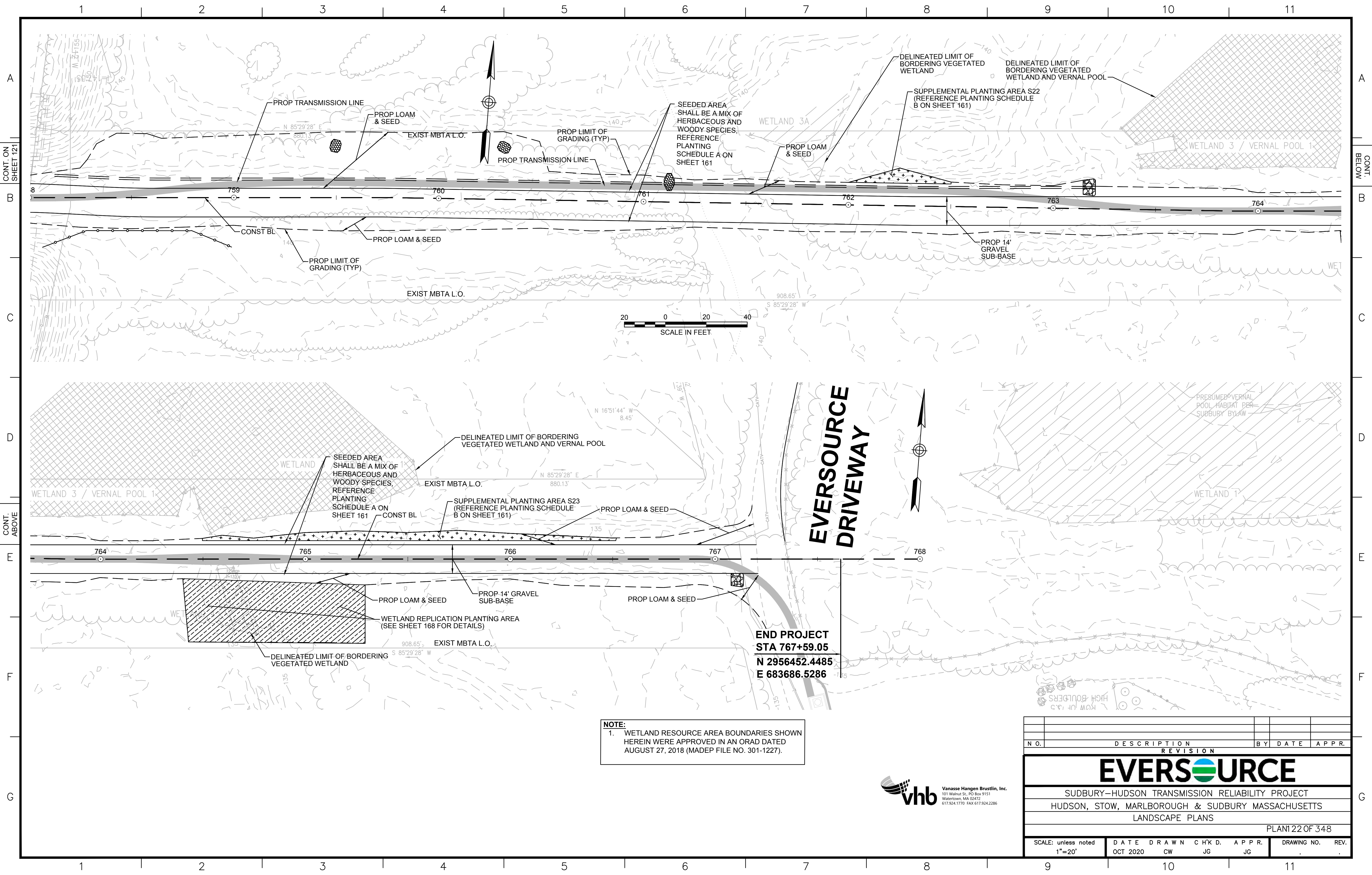
G



NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).



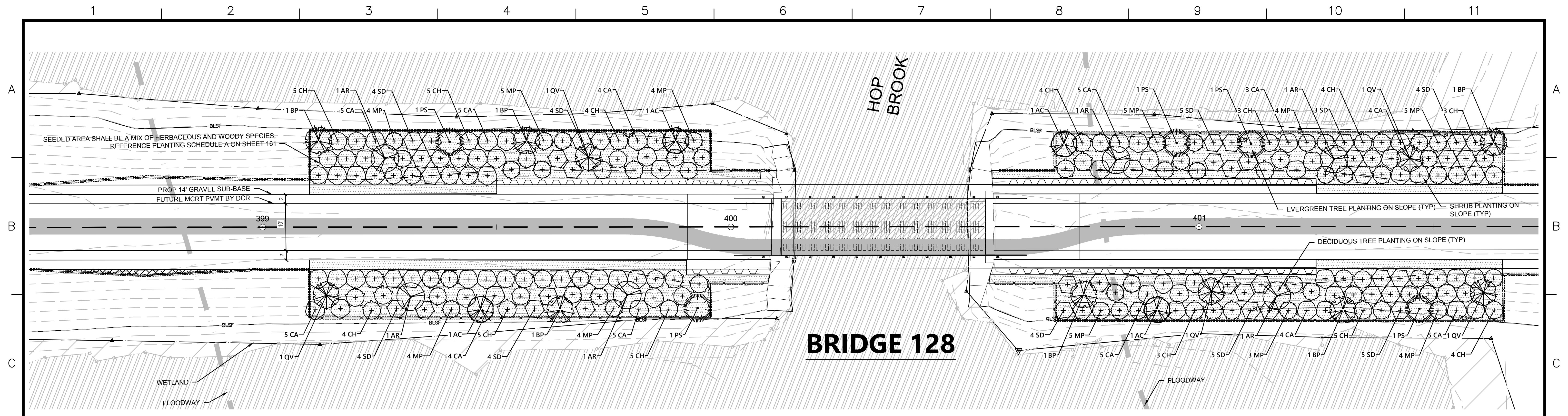
| NO. | | DESCRIPTION | BY | DATE | APPR. |
|---|----------|-------------|--------|-------|-------------|
| EVERSOURCE | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | |
| LANDSCAPE PLANS | | | | | |
| PLAN 121 OF 348 | | | | | |
| SCALE: unless noted 1" = 20' | DATE | DRAWN | CHK'D. | APPR. | DRAWING NO. |
| | OCT 2020 | CW | JG | JG | REV. |



NOTE:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).



| NO. | | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|-------------|------------------|
| REVISION | | | | | |
| EVERSOURCE | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | |
| LANDSCAPE PLANS | | | | | |
| PLAN 22 OF 348 | | | | | |
| SCALE: unless noted 1"=20' | DATE OCT 2020 | DRAWN CW | CHK'D. JG | APPR. JG | DRAWING NO. REV. |



BRIDGE 128

LEGEND

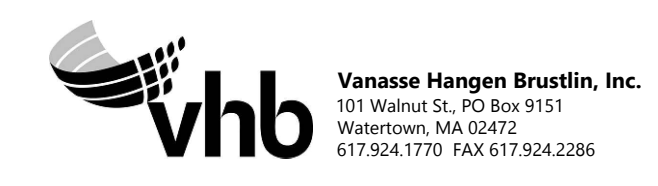


PLANT SCHEDULE WEST SIDE

| DECIDUOUS TREES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | WETLAND STATUS |
|-----------------|-----|------------------------|--------------------------|-------------------------|----------------|
| AR | 3 | Acer rubrum | Red Maple | 1 1/2" CAL | FAC |
| AC | 2 | Amelanchier canadensis | Serviceberry | 10 - 12' HT./Multi-Stem | FAC |
| BP | 3 | Betula populifolia | Gray Birch | 10 - 12' HT./Multi-Stem | FAC |
| QV | 2 | Quercus velutina | Black Oak | 1 1/2" CAL | UPL |
| EVERGREEN TREES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | WETLAND STATUS |
| PS | 2 | Pinus strobus | White Pine | 7 - 8' HT. | FACU |
| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING |
| CA | 28 | Clethra alnifolia | Summersweet Clethra | 2 - 3' HT. | 48" o.c. FAC |
| CH | 28 | Corylus americana | American Hazelnut | 2 - 3' HT. | 48" o.c. FACU |
| MP | 21 | Myrica pensylvanica | Northern Bayberry | 2 - 3' HT. | 48" o.c. FAC |
| SD | 16 | Swida alternifolia | Alternate-Leaved Dogwood | 24 - 30" HT. | 48" o.c. FACU |

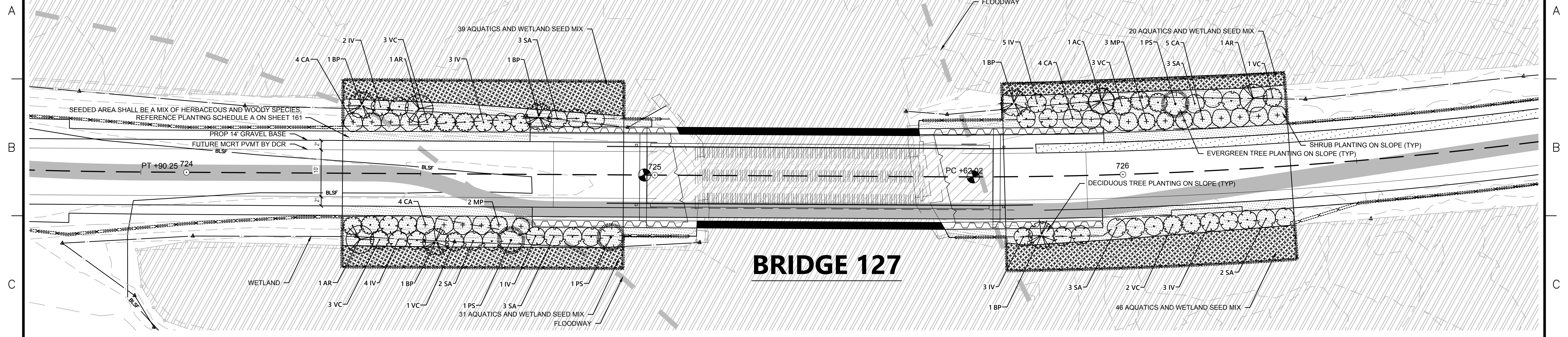
PLANT SCHEDULE EAST SIDE

| DECIDUOUS TREES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | WETLAND STATUS |
|-----------------|-----|------------------------|--------------------------|-------------------------|----------------|
| AR | 3 | Acer rubrum | Red Maple | 1 1/2" CAL | FAC |
| AC | 2 | Amelanchier canadensis | Serviceberry | 10 - 12' HT./Multi-Stem | FAC |
| BP | 3 | Betula populifolia | Gray Birch | 10 - 12' HT./Multi-Stem | FAC |
| QV | 3 | Quercus velutina | Black Oak | 1 1/2" CAL | UPL |
| EVERGREEN TREES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | WETLAND STATUS |
| PS | 3 | Pinus strobus | White Pine | 7 - 8' HT. | FACU |
| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING |
| CA | 26 | Clethra alnifolia | Summersweet Clethra | 2 - 3' HT. | 48" o.c. FAC |
| CH | 26 | Corylus americana | American Hazelnut | 2 - 3' HT. | 48" o.c. FACU |
| MP | 26 | Myrica pensylvanica | Northern Bayberry | 2 - 3' HT. | 48" o.c. FAC |
| SD | 26 | Swida alternifolia | Alternate-Leaved Dogwood | 24 - 30" HT. | 48" o.c. FACU |

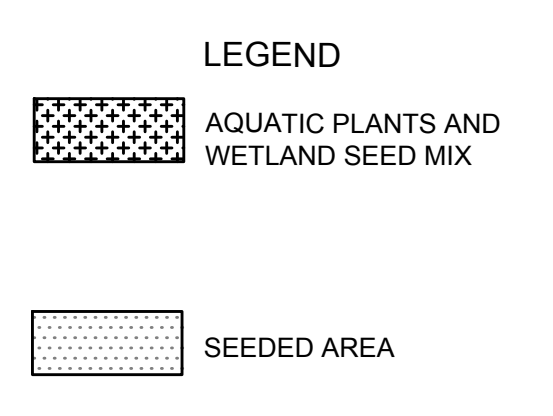


| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 24 OF 348 | | | | |
| SCALE: unless noted 1"=10' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

1 2 3 4 5 6 7 8 9 10 11



BRIDGE 127



PLANT SCHEDULE WEST SIDE

| DECIDUOUS TREES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | WETLAND STATUS |
|-----------------|-----|--------------------------|-------------------------|-------------------------|----------------|
| AR | 2 | Acer rubrum | Red Maple | 1 1/2" CAL | FAC |
| BP | 3 | Betula populifolia | Gray Birch | 10 - 12' HT./Multi-Stem | FAC |
| EVERGREEN TREES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | WETLAND STATUS |
| PS | 2 | Pinus strobus | White Pine | 7 - 8' HT. | FACU |
| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING |
| CA | 8 | Clethra alnifolia | Summersweet Clethra | 2 - 3' HT. | 48" o.c. FAC |
| IV | 10 | Ilex verticillata | Winterberry | 3' - 4' | 48" o.c. FACW |
| MP | 2 | Myrica pensylvanica | Northern Bayberry | 2 - 3' HT. | 48" o.c. FAC |
| SA | 8 | Swida amomum | Silky Dogwood | 3' - 4' | 48" o.c. FACW |
| VC | 7 | Vaccinium corymbosum | Highbush Blueberry | 3' - 4' | 48" o.c. FACW |
| AQUATICS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | WETLAND STATUS |
| | 18 | Alisma plantago-aquatica | Northern Water-Plantain | 2" plug | 36" o.c. OBL |
| | 18 | Peltandra virginica | Green Arrow-Arum | 2" plug | 36" o.c. OBL |
| | 17 | Pontederia cordata | Pickereelweed | 2" plug | 36" o.c. OBL |
| | 17 | Sagittaria latifolia | Common Arrowhead | 2" plug | 36" o.c. OBL |

PLANT SCHEDULE EAST SIDE

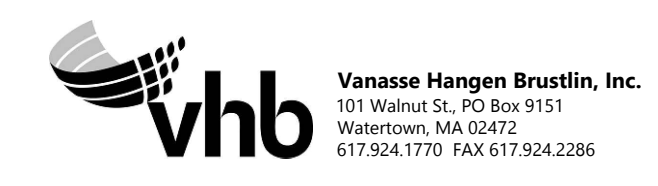
| DECIDUOUS TREES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | WETLAND STATUS |
|-----------------|-----|--------------------------|-------------------------|-------------------------|----------------|
| AR | 1 | Acer rubrum | Red Maple | 1 1/2" CAL | FAC |
| AC | 1 | Amelanchier canadensis | Serviceberry | 10 - 12' HT./Multi-Stem | FAC |
| BP | 2 | Betula populifolia | Gray Birch | 10 - 12' HT./Multi-Stem | FAC |
| EVERGREEN TREES | QTY | BOTANICAL NAME | COMMON NAME | SIZE | WETLAND STATUS |
| PS | 1 | Pinus strobus | White Pine | 7 - 8' HT. | FACU |
| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING |
| CA | 9 | Clethra alnifolia | Summersweet Clethra | 2 - 3' HT. | 48" o.c. FAC |
| IV | 11 | Ilex verticillata | Winterberry | 3' - 4' | 48" o.c. FACW |
| MP | 3 | Myrica pensylvanica | Northern Bayberry | 2 - 3' HT. | 48" o.c. FAC |
| SA | 8 | Swida amomum | Silky Dogwood | 3' - 4' | 48" o.c. FACW |
| VC | 6 | Vaccinium corymbosum | Highbush Blueberry | 3' - 4' | 48" o.c. FACW |
| AQUATICS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | WETLAND STATUS |
| | 17 | Alisma plantago-aquatica | Northern Water-Plantain | 2" plug | 36" o.c. OBL |
| | 17 | Peltandra virginica | Green Arrow-Arum | 2" plug | 36" o.c. OBL |
| | 16 | Pontederia cordata | Pickereelweed | 2" plug | 36" o.c. OBL |
| | 16 | Sagittaria latifolia | Common Arrowhead | 2" plug | 36" o.c. OBL |

WETLAND SEED MIX

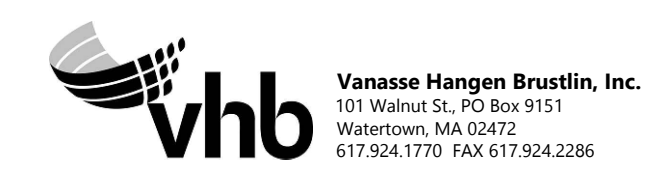
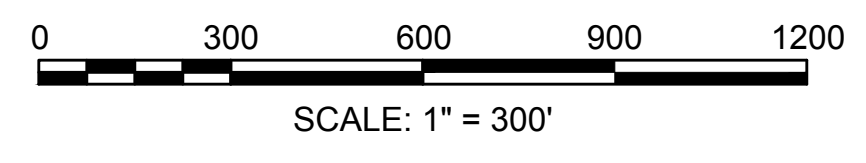
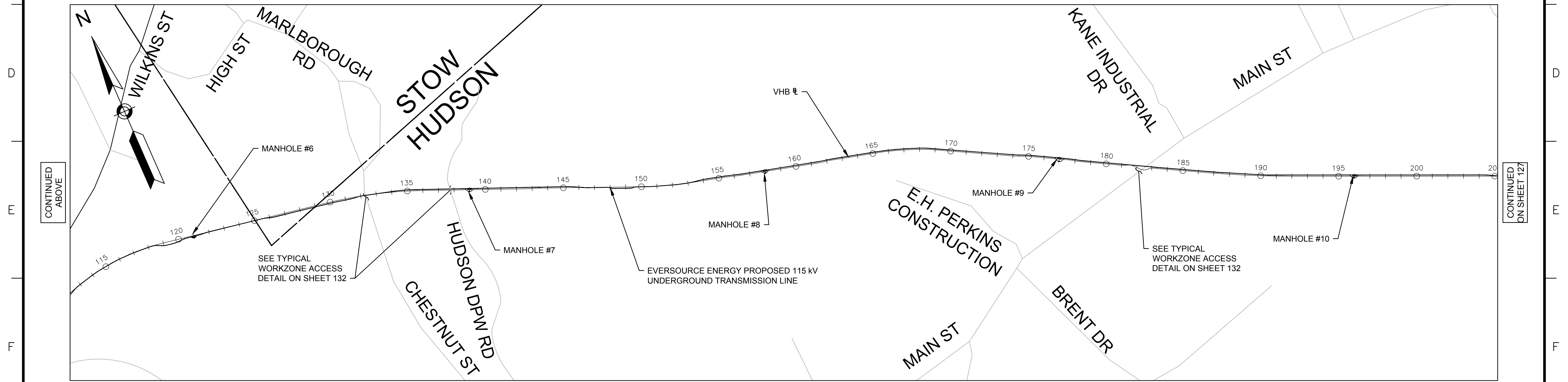
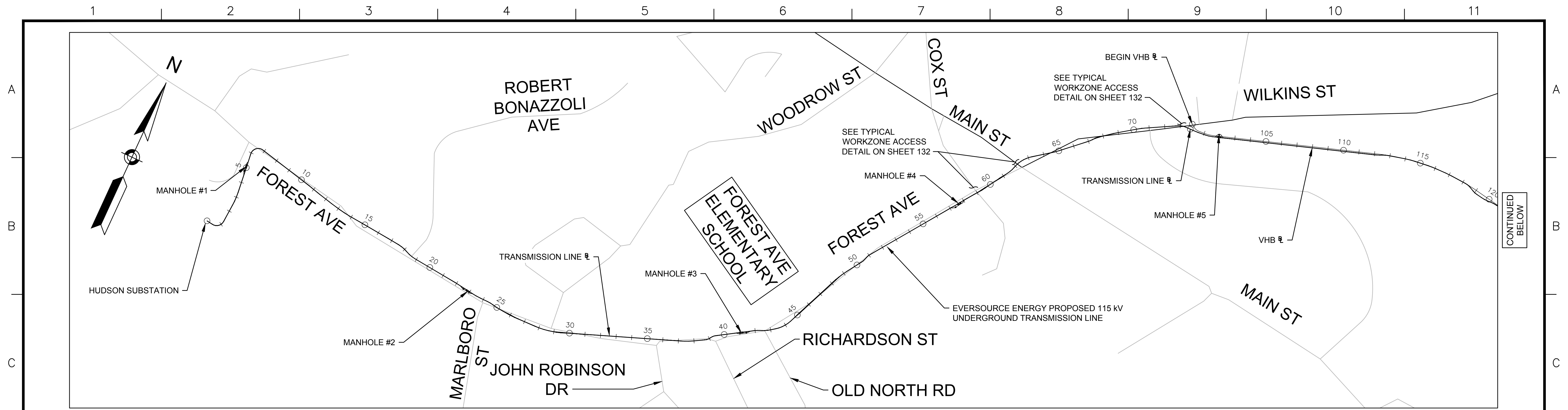
WETLAND SEED MIX SHALL BE APPLIED AT A DENSITY OF 18LB./AC.

"Wetland seed mix "New England Wetmix" from New England Wetland Plants, Inc. or similar. Typical species: fox sedge (Carex vulpinoidea), sallow sedge (Carex lurida), broom sedge (Carex scoparia), sensitive fern (Onoclea sensibilis), blue vervain (Verbena hastata), hop sedge (Carex lupulina), dark-green bulrush (Scirpus atrovirens), nodding bur-marigold (Bidens cernua), bristly sedge (Carex comosa), fringed sedge (Carex crinita), tall mannagrass (Glyceria grandis), wool-grass (Scirpus cyperinus), soft rush (Juncus effusus), spotted Joe-Pye-weed (Eutrochium maculatum), boneset (Eupatorium perfoliatum), American water-plantain (Alisma subcordatum), New England aster (Symphyotrichum novae-angliae), rattlesnake mannagrass (Glyceria canadensis), purple-stem aster (Symphyotrichum puniceum), soft-stemmed bulrush (Schoenoplectus tabernaemontani), blueflag (Iris versicolor), swamp milkweed (Asclepias incarnata), and Allegheny monkey-flower (Mimulus ringens).

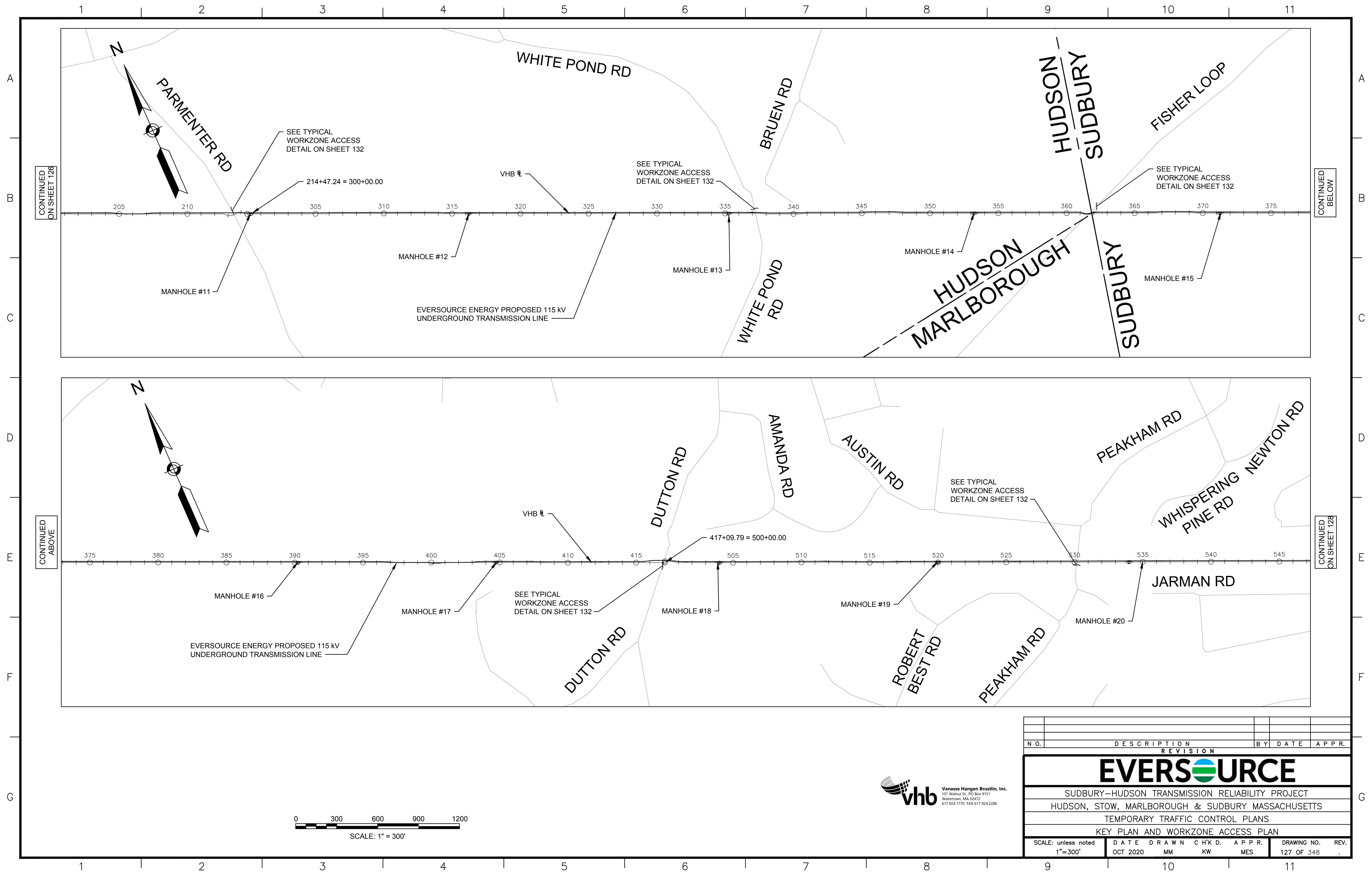
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| LANDSCAPE PLANS | | | | |
| PLAN 125 OF 348 | | | | |
| SCALE: unless noted 1"=10' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |



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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| TEMPORARY TRAFFIC CONTROL PLANS | | | | |
| KEY PLAN AND WORKZONE ACCESS PLAN | | | | |
| SCALE: unless noted 1"=300' | DATE OCT 2020 | DRAWN MM | CHK'D. KW | APPR. MES |
| | DRAWING NO. 126 OF 348 | REV. | | |

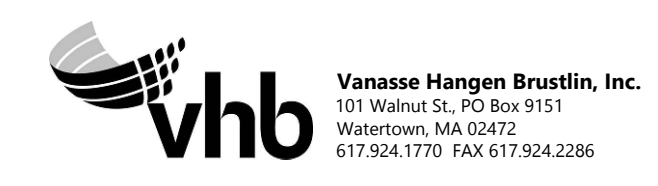
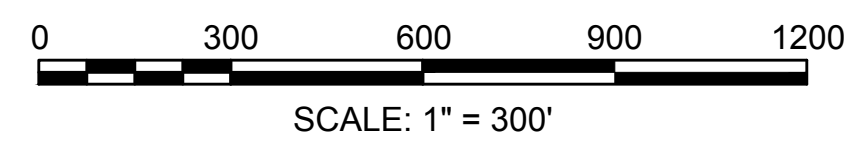


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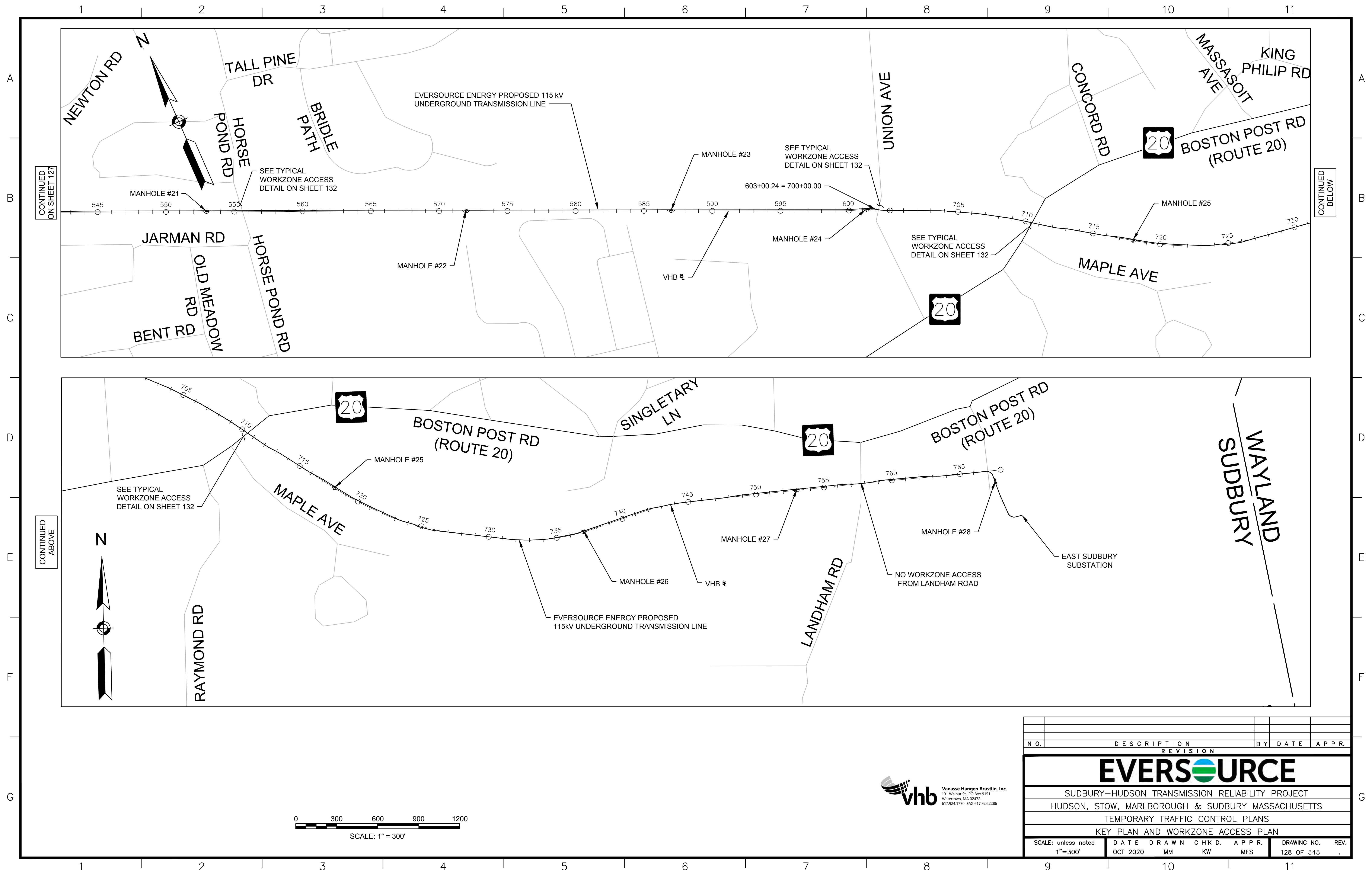


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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 TEMPORARY TRAFFIC CONTROL PLANS
 KEY PLAN AND WORKZONE ACCESS PLAN

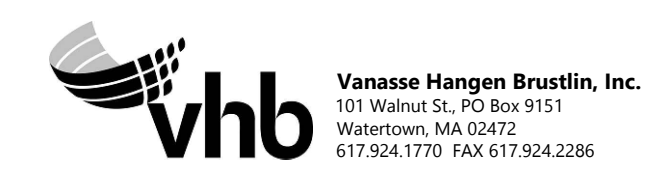
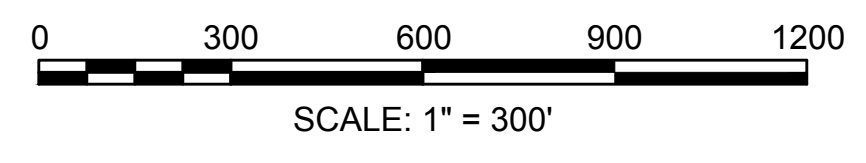
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| SCALE: unless noted 1"=300' | DATE OCT 2020 | DRAWN MM | CHK'D. KW | APPR. MES | DRAWING NO. 127 OF 348 | REV. |
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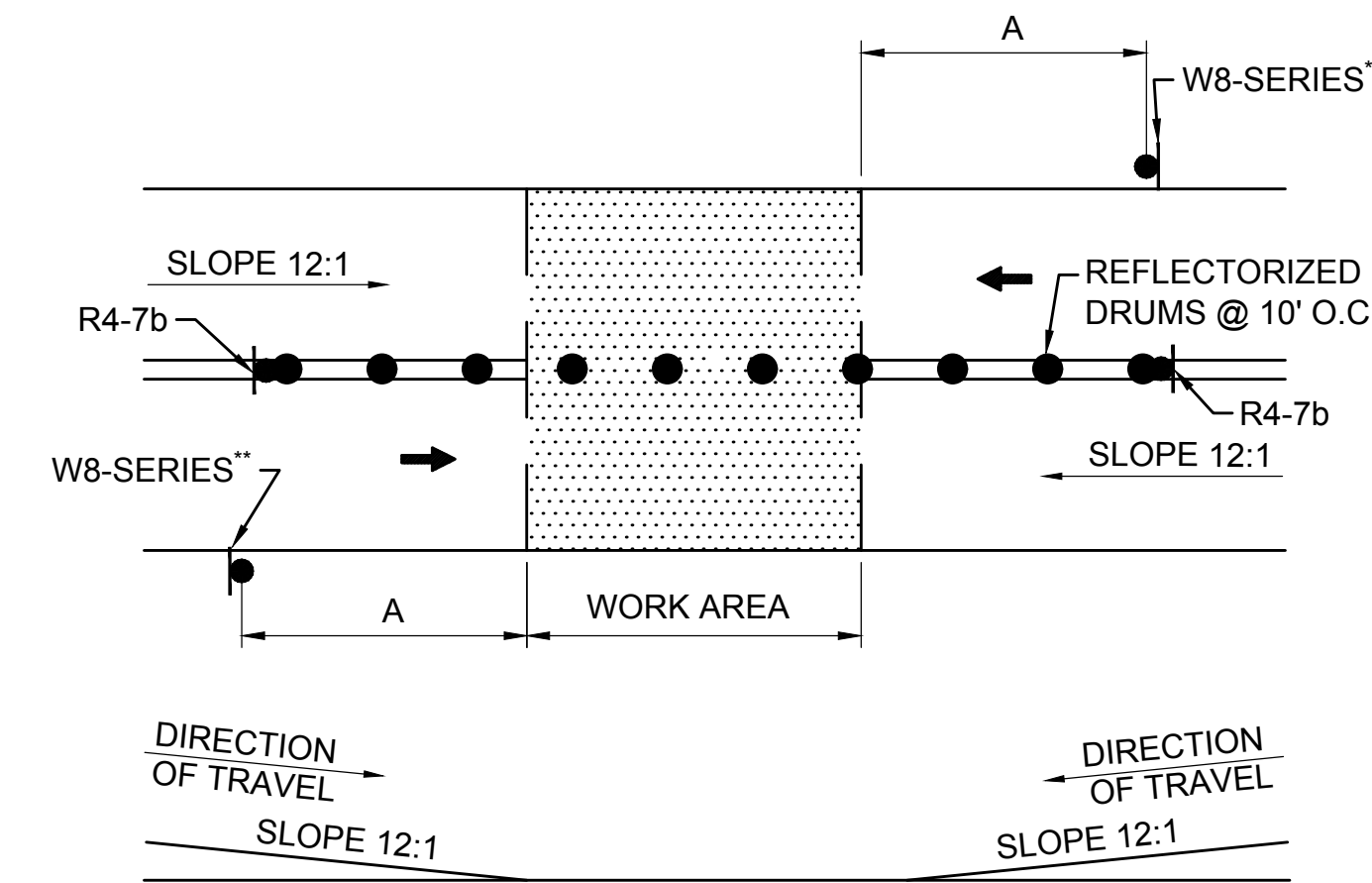


| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| TEMPORARY TRAFFIC CONTROL PLANS | | | | |
| KEY PLAN AND WORKZONE ACCESS PLAN | | | | |
| SCALE: unless noted 1"=300' | DATE | DRAWN | CHK'D | APPR. |
| | OCT 2020 | MM | KW | MES |
| DRAWING NO. | REV. | | | |
| 128 OF 348 | | | | |

GENERAL NOTES

- ALL CONSTRUCTION SIGNING, TEMPORARY TRAFFIC CONTROL DEVICES, AND ROADSIDE ELEMENTS SHALL CONFORM WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS AMENDED, THE MASSDOT STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL PLANS, THE LATEST REVISIONS OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, (AASHTO) ROADSIDE DESIGN GUIDE, AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, AND NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 OR THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
- WORK HOURS SHALL BE AS STIPULATED BY THE ENERGY FACILITIES SITING BOARD (EFSB) AND AS APPROVED BY AGENCY OR MUNICIPALITY WITH JURISDICTION OF THE ROADWAY. IT IS ASSUMED WORK AT THE INTERSECTIONS OF FOREST AVENUE AT MARLBORO STREET AND MAIN STREET AT FOREST AVENUE/ WILKINS ST WILL REQUIRE NIGHT WORK. WORK IN THE PROXIMITY OF FOREST AVENUE ELEMENTARY AND CHAPS CHILD CARE WILL ALSO REQUIRE COORDINATION WITH THE TOWN OF HUDSON. THE CLOSURE AND DETOUR OF CHESTNUT STREET SHALL BE COORDINATED WITH THE TOWN OF HUDSON AND THE TOWN OF STOW AND ANY IMPACTS TO SCHOOL BUS ROUTES SHOULD BE CONSIDERED.
- NO WORK SHALL OCCUR WITHIN THE PUBLIC WAY ON STATE RECOGNIZED HOLIDAYS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ALL TEMPORARY PEDESTRIAN PATHWAYS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE MUTCD AND ALL APPLICABLE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB) AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) REQUIREMENTS AND PUBLIC RIGHTS-OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
- ALL DRUMS OUTSIDE TAPERS SHALL BE SET AT 20' ON CENTER MAX. UNLESS OTHERWISE NOTED OR ADJUSTED BY THE ENGINEER.
- ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN SAFE AND REASONABLE ABUTTER ACCESS. WORK MAY REQUIRE ADDITIONAL SIGNS, DRUMS AND OTHER TRAFFIC CONTROL DEVICES, GRADING AND TEMPORARY PAVEMENT FOR PASSAGE OF PEDESTRIAN, VEHICULAR AND EMERGENCY TRAFFIC THROUGH THE WORK AREAS, BOTH DURING AND AFTER WORKING HOURS, TO MAINTAIN SUCH ACCESS.
- THE FIRST 10 DRUMS ON TAPERS SHALL BE REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS AND SHALL BE OPERATING, AT A MINIMUM, BETWEEN DUSK AND DAWN, WHEN TAPER IS DEPLOYED.
- REFLECTORIZED CONES SHALL BE A MINIMUM OF 36 INCHES IN HEIGHT.
- CONES MAY BE USED IN LIEU OF DRUMS OUTSIDE OF TAPER AREAS.
- THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 2 WEEKS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OR RESTRICTION OF ACCESS.
- FOR DROP-OFFS 3" OR LESS WITHIN THE CLEAR ZONE, CONDITION MAY BE MITIGATED WITH W8-9 (LOW SHOULDER) SIGN OR TEMPORARY CHANNELIZATION DEVICES.
- CONTRACTOR SHALL STAGE WORK SUCH THAT A DROP-OFF OF NO MORE THAN 3" AT THE END OF EACH WORK DAY EXISTS WITHIN THE CLEAR ZONE AT ANY TIME AND ENSURE DROP-OFF IS MITIGATED WITHOUT BARRIER PER NOTE 11.
- CONSTRUCTION CLEAR ZONE SHALL BE IN ACCORDANCE WITH MASSDOT BOSTON TRAFFIC GUIDELINES AS FOLLOWS:
 4' IF POSTED SPEED IS LESS THAN 35 MPH
 8' IF POSTED SPEED IS 35 MPH
 15' IF POSTED SPEED IS 40 MPH
- 11' MINIMUM LANE WIDTHS SHALL BE MAINTAINED UNLESS OTHERWISE NOTED.
- NON-ESSENTIAL TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS WHEN NOT IN USE.
- SIGNS INSTALLED ON PORTABLE STANDS REQUIRE 12 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
- SIGNS INSTALLED ON PORTABLE STANDS PLACED AMONG CHANNELIZATION DEVICES REQUIRE A 36 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
- SIGNS MOUNTED ON POSTS REQUIRE A MINIMUM 84 INCH MOUNTING HEIGHT FROM THE ROADWAY OR SIDEWALK SURFACE TO THE BOTTOM OF THE SIGN.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN NCHRP 350 AND/OR MASH CRASH TESTED SIGN SUPPORTS AND INSTALLED IN ACCORDANCE WITH THE MUTCD. SIGNS SHALL NOT BE MOUNTED TO OR LEANED AGAINST DRUMS OR CONES.
- CONTRACTOR SHALL SECURE WORK AREAS BY APPROPRIATE MEANS, TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES.
- THERE IS NO DESIGNATED BICYCLE LANE ON THE ROADWAY WITHIN THE PROJECT LIMITS. BICYCLES ARE EXPECTED TO SHARE THE ROAD WITH GENERAL VEHICULAR TRAFFIC.
- TEMPORARY CONSTRUCTION FENCING IS TO BE USED AS NEEDED WHEN WORKING ADJACENT TO PRIVATE PROPERTY TO DELINEATE WORK ZONE LIMITS AND PREVENT UNAUTHORIZED ACCESS.
- WORK ZONE ACCESS POINTS ARE IDENTIFIED ON THE KEY PLAN AND WORK ZONE ACCESS PLAN ON SHEETS 126 - 128. CONTRACTOR SHALL SWEEP AREAS ADJACENT TO THE SIDE ON A DAILY BASIS. CONTRACTOR SHALL REPAIR DAMAGED ROADWAYS AND SIDEWALKS AT THEIR OWN COST.

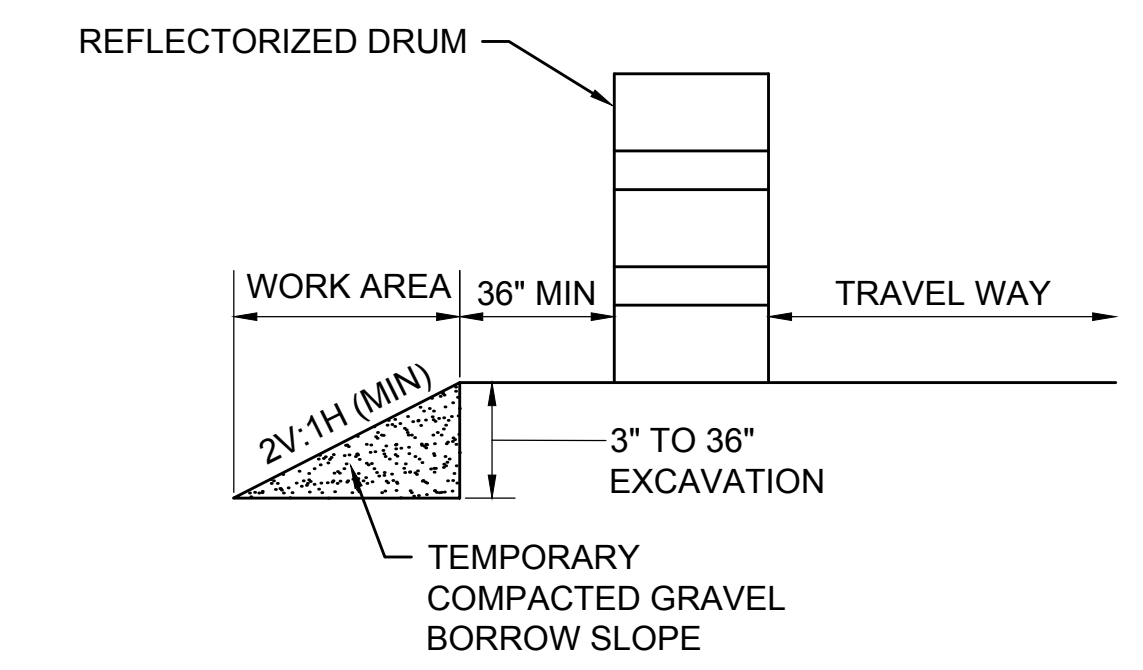
| LANE TAPER LENGTH FORMULAS | |
|----------------------------|--|
| L= | TAPER LENGTH IN FEET |
| W= | WIDTH OF ROADWAY TO BE SHIFTED OR REDIRECTED IN FEET |
| S= | POSTED SPEED LIMIT IN MPH |
| | POSTED SPEED |
| | 40 MPH OR LESS |
| | $L = \frac{WS^2}{60}$ |



- NOTES:**
- SQUARE OFF THE FULL WIDTH OF THE ROADWAY AT THE END OF WORK DAY
 - ** CONTRACTOR SHALL INSTALL W8-1 OR W8-8 SIGN, AS APPROPRIATE, ON ALL ROADWAYS IN ADVANCE OF THE TRANSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

TEMPORARY PAVEMENT TRANSITION

SCALE: NTS



- NOTE:**
- CONTRACTOR SHALL INSTALL W8-9 SIGN ON ALL ROADWAYS 350 FT IN ADVANCE OF THE START OF DROP-OFF CONDITION.

TYPICAL ROADWAY DROP-OFF PROTECTION

SCALE: NTS

| LEGEND | |
|--------|--|
| | POLICE OFFICER |
| | TRAFFIC SIGNAL |
| | REFLECTORIZED DRUM |
| | REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS (SEE NOTE 7) |
| | TEMPORARY CONSTRUCTION SIGN |
| | TRAFFIC CONE |
| | TYPE III BARRICADE |
| | WORK AREA (PUBLIC ACCESS RESTRICTED) |
| | ROAD CLOSED, LOCAL ACCESS ONLY |
| | TRAFFIC FLOW |
| | PEDESTRIAN ROUTE |
| | CONSTRUCTION FENCE |
| | TEMPORARY PORTABLE PEDESTRIAN BARRICADE |
| NTS | NOT TO SCALE |

| ROADWAY | DISTANCE BETWEEN SIGNS (FEET) | | | |
|---|-------------------------------|-----|-----|-----|
| | A | B | C | D |
| BOSTON POST RD (ROUTE 20), FOREST AVE, WILKINS ST, MAIN ST, CONCORD RD, DUTTON RD, PEAKHAM RD, HORSE POND RD, UNION AVE, LANDHAM RD | 350 | 150 | 350 | 350 |
| ALL OTHERS | 100 | 50 | 100 | 100 |

| BUFFER SPACING | |
|----------------|-----------------|
| SPEED (MPH) | DISTANCE (FEET) |
| 15 | 80 |
| 20 | 115 |
| 25 | 155 |
| 30 | 200 |
| 35 | 250 |
| 40 | 305 |



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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 TEMPORARY TRAFFIC CONTROL PLANS
 GENERAL NOTES AND LEGEND

| | | | | | | |
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| SCALE: unless noted NTS | DATE DRAWN OCT 2020 | CHK'D. MM | APP'R. KW | MES | DRAWING NO. 129 OF 348 | REV. . |
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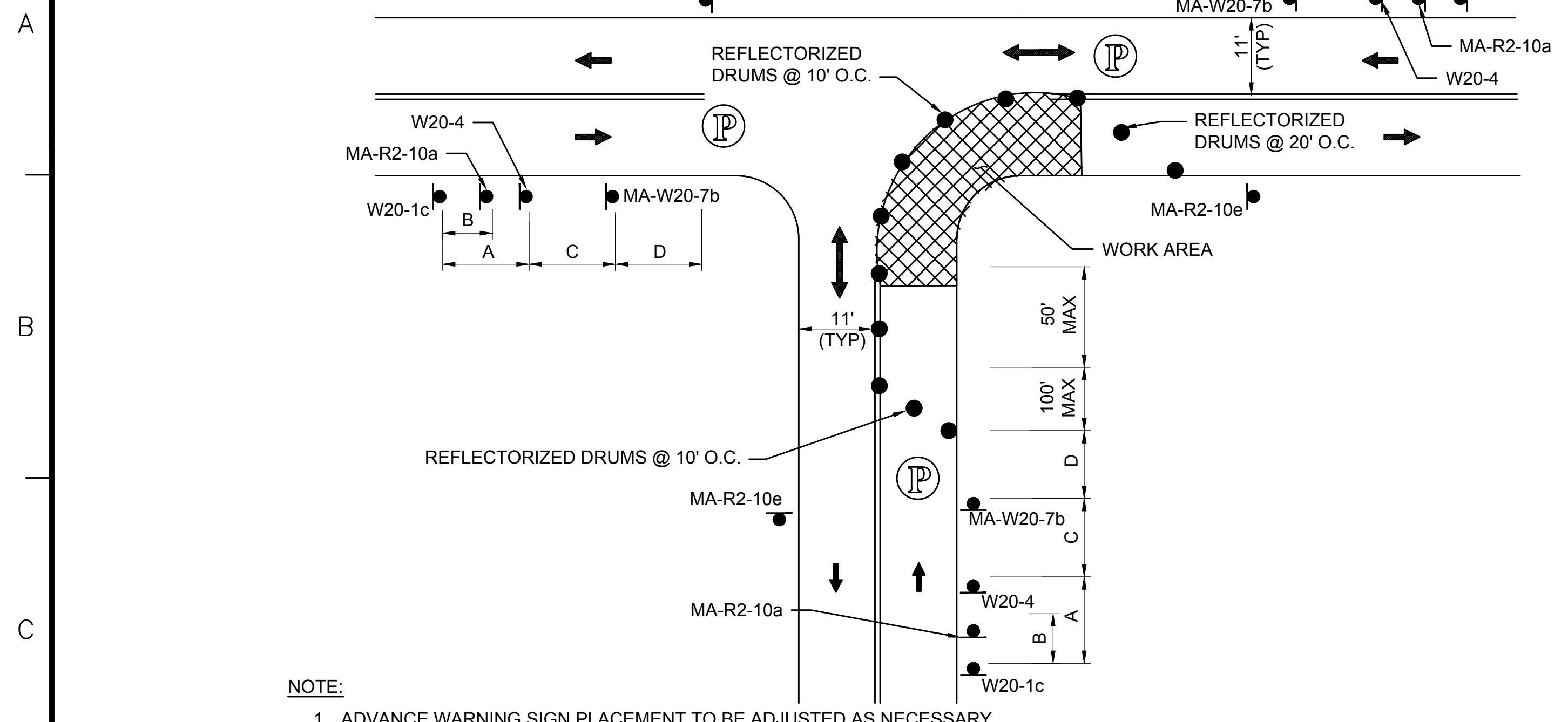
SUGGESTED TEMPORARY TRAFFIC CONTROL SETUP APPLICATION

| TOWN | ROADWAY | TRANSMISSION $\frac{1}{2}$ STATION (SEE NOTE 1) | VHB $\frac{1}{2}$ STATION (SEE NOTE 2) | TEMPORARY TRAFFIC CONTROL SETUPS | SHEET NUMBER | NOTES |
|-------------|----------------------------------|--|---|---|------------------------|----------------------|
| HUDSON | EVERSOURCE | 0+00 ± TO 6+20 ± | -- | OFF-ROAD | -- | -- |
| | FOREST AVENUE | 6+20 ± TO 6+40 ± | -- | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC PEDESTRIAN BYPASS TYPE II DETAIL | SHEET 131 SHEET 132 | -- |
| | | 6+40 ± TO 22+20 ± | -- | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC | SHEET 131 | -- |
| | | 22+20 ± TO 23+80 ± | -- | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC | SHEET 131 | MANHOLE #2 |
| | | 23+80 ± TO 24+40 ± | -- | SITE SPECIFIC FOREST AVE AT MARLBORO ST STAGE 1 | SHEET 133 | AT MARLBORO ST |
| | | 24+40 ± TO 26+00 ± | -- | SITE SPECIFIC FOREST AVE AT MARLBORO ST STAGE 2 | SHEET 134 | AT MARLBORO ST |
| | | 26+00 ± TO 29+20 ± | -- | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC | SHEET 131 | -- |
| | | 29+20 ± TO 30+20 ± | -- | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC | SHEET 131 | AT WOODROW ST |
| | | 30+20 ± TO 35+60 ± | -- | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC | SHEET 131 | -- |
| | | 35+60 ± TO 37+00 ± | -- | CLOSURE AND DETOUR PLAN - JOHN ROBINSON DR | SHEET 139 | AT JOHN ROBINSON RD |
| | | 37+00 ± TO 39+00 ± | -- | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC | SHEET 131 | -- |
| | | 39+00 ± TO 40+50 ± | -- | ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS | SHEET 131 | AT RICHARDSON ST |
| | | 40+50 ± TO 41+80 ± MANHOLE #3 | -- | CLOSURE AND DETOUR PLAN- FOREST AVENUE - MANHOLE #3 | SHEET 140 | MANHOLE #3 |
| | | 41+80 ± TO 42+50 ± | -- | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC | SHEET 131 | -- |
| | | 42+50 ± TO 44+00 ± | -- | ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS | SHEET 131 | AT OLD NORTH RD |
| | 44+00 ± TO 56+80 ± | -- | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC | SHEET 131 | -- | |
| | 56+80 ± TO 58+40 ± MANHOLE #4 | -- | CLOSURE AND DETOUR PLAN- FOREST AVENUE - MANHOLE #4 | SHEET 141 | MANHOLE #4 | |
| | 58+40 ± TO 61+40 ± | -- | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC | SHEET 131 | -- | |
| | FOREST AVENUE / WILKINS ST | 61+40 ± TO 62+00 ± | -- | SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 1 PCMS PLAN - FOREST AVE AT MAIN ST NIGHT WORK | SHEET 135 SHEET 149 | AT MAIN / WILKINS ST |
| | | 62+00 ± TO 62+30 ± | -- | SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 2 CLOSURE AND DETOUR PLAN - FOREST AVENUE - MANHOLE #4 | SHEET 136 SHEET 141 | AT MAIN / WILKINS ST |
| | | 62+30 ± TO 62+40 ± | -- | SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 3 CLOSURE AND DETOUR PLAN - FOREST AVENUE - MANHOLE #4 | SHEET 137 SHEET 141 | AT MAIN / WILKINS ST |
| | | 62+40 ± TO 63+30 ± | -- | SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 4 PCMS PLAN - FOREST AVE AT MAIN ST NIGHT WORK | SHEET 138 SHEET 149 | AT MAIN / WILKINS ST |
| | WILKINS ST | 63+30 ± TO 73+60 ± | -- | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC | SHEET 131 | -- |
| | STOW | MBTA ROW | -- | 100+31 ± TO 124+95 ± | OFF-ROAD | -- |
| MBTA ROW | | -- | 124+95 ± TO 128+30 ± | OFF-ROAD | -- | -- |
| HUDSON | MBTA ROW | -- | 128+30 ± TO 132+50 ± | OFF-ROAD | -- | -- |
| | CHESTNUT ST | -- | 132+50 ± TO 132+80 ± | CLOSURE AND DETOUR PLAN- CHESTNUT ST AND MARLBORO RD | SHEET 143 | AT CHESTNUT ST |
| | MBTA ROW | -- | 132+80 ± TO 181+60 ± | OFF-ROAD | -- | -- |
| | MAIN ST | -- | 181+60 ± TO 182+30 ± | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC | SHEET 131 | AT MAIN ST |
| | MBTA ROW | -- | 182+30 ± TO 213+50 ± | OFF-ROAD | -- | -- |
| | PARMENTER RD | -- | 213+50 ± TO 213+70 ± | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC | SHEET 131 | AT PARMENTER RD |
| | MBTA ROW | -- | 213+70 ± TO 214+47 ± 214+47 ± = 300+00 ± 300+00 ± TO 336+90 ± | OFF-ROAD | -- | -- |
| | WHITE POND RD | -- | 336+90 ± TO 337+10 ± | CLOSURE AND DETOUR PLAN- WHITE POND RD | SHEET 144 | AT WHITE POND RD |
| MARLBOROUGH | MBTA ROW | -- | 337+10 ± TO 361+40 ± | OFF-ROAD | -- | -- |
| | MBTA ROW | -- | 361+40 ± TO 361+55 ± | OFF-ROAD | -- | -- |
| SUDBURY | MBTA ROW | -- | 361+55 ± TO 416+85 ± | OFF-ROAD | -- | -- |
| | DUTTON RD | -- | 416+85 ± TO 417+10 ± 417+10 ± = 500+00 ± | CLOSURE AND DETOUR PLAN- DUTTON RD | SHEET 145 | AT DUTTON RD |
| | MBTA ROW | -- | 500+00 ± TO 530+45 ± | OFF-ROAD | -- | -- |
| | PEAKHAM RD | -- | 530+45 ± TO 530+65 ± | PEDESTRIAN BYPASS TYPE I DETAIL CLOSURE AND DETOUR- PEAKHAM RD | SHEET 132 SHEET 146 | AT PEAKHAM RD |
| | MBTA ROW | -- | 530+65 ± TO 555+75 ± | OFF-ROAD | -- | -- |
| | HORSE POND RD | -- | 555+75 ± TO 556+00 ± | PEDESTRIAN BYPASS TYPE I DETAIL CLOSURE AND DETOUR- HORSE POND RD | SHEET 132 SHEET 147 | AT HORSE POND RD |
| | MBTA ROW | -- | 556+00 ± TO 602+35 ± | OFF-ROAD | -- | -- |
| | UNION AVE | -- | 602+35 ± TO 602+65 ± | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC | SHEET 131 | AT UNION AVE |
| | MBTA ROW | -- | 602+65 ± TO 603+00 ± 603+00 ± = 700+00 ± 700+00 ± TO 711+35 ± | OFF-ROAD | -- | -- |
| | BOSTON POST RD (ROUTE 20) | -- | 711+35 ± TO 711+65 ± | SEE NOTE 4 | -- | AT BOSTON POST RD |
| SUDBURY | MBTA ROW | -- | 711+65 ± TO 757+65 ± | OFF-ROAD | -- | -- |
| | LANDHAM RD | -- | 757+65 ± TO 758+00 ± | OFF-ROAD | -- | BELOW LANDHAM RD |
| | MBTA ROW | -- | 758+00 ± TO 767+30 ± | OFF-ROAD | -- | -- |
| EVERSOURCE | 475+40 ± TO 479+85 | -- | OFF-ROAD | -- | -- | |

- NOTES:
- REFER TO KEY PLAN AND WORKZONE ACCESS PLAN ON SHEETS 127 & 128 FOR OVERVIEW. SEE EVERSOURCE ENERGY 115kV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE FOR ADDITIONAL INFORMATION.
 - REFER TO VHB CONSTRUCTION PLANS ON SHEETS 17-39 FOR ADDITIONAL INFORMATION.
 - REFER TO GENERAL NOTE 2 ON SHEET 129 REGARDING WORK HOURS.
 - REFER TO APPROVED MASSDOT ACCESS PERMIT TTCP FOR WORK ALONG ROUTE 20.



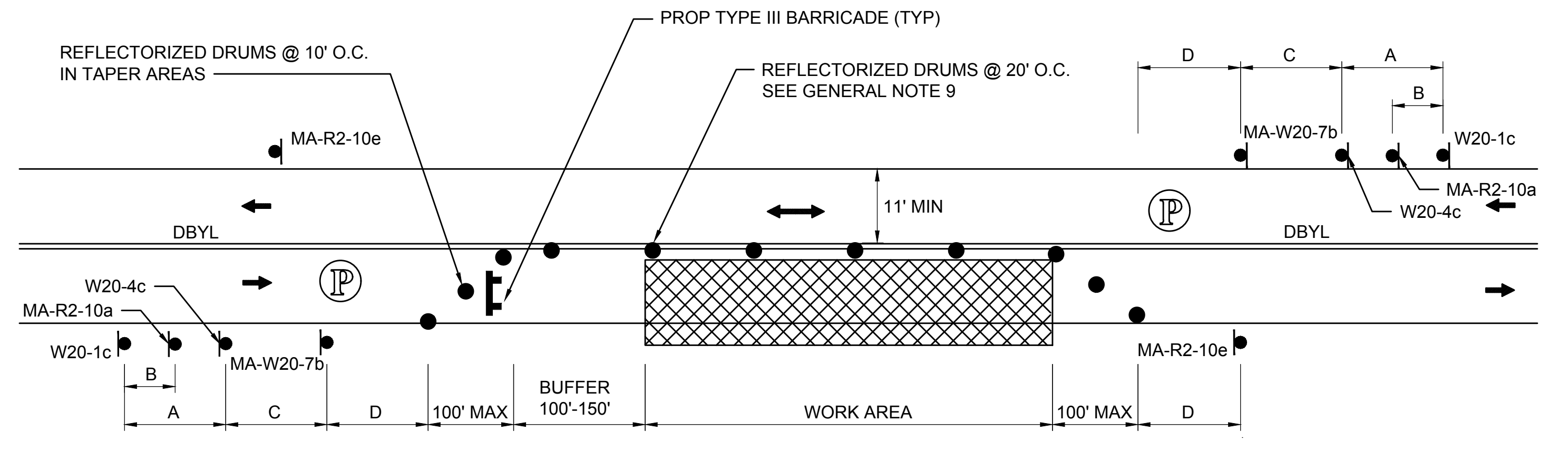
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| NO. | | DESCRIPTION | | BY | DATE | APPR. |
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| EVERSOURCE | | | | | | |
| SUDBURY--HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | |
| TEMPORARY TRAFFIC CONTROL PLANS | | | | | | |
| SUGGESTED TEMPORARY TRAFFIC CONTROL | | | | | | |
| SCALE: unless noted NTS | DATE | DRAWN | CHK'D | A.P.P.R. | DRAWING NO. | REV. |
| | OCT 2020 | MM | KW | MES | 130 OF 348 | . |



NOTE:
1. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY.

ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS

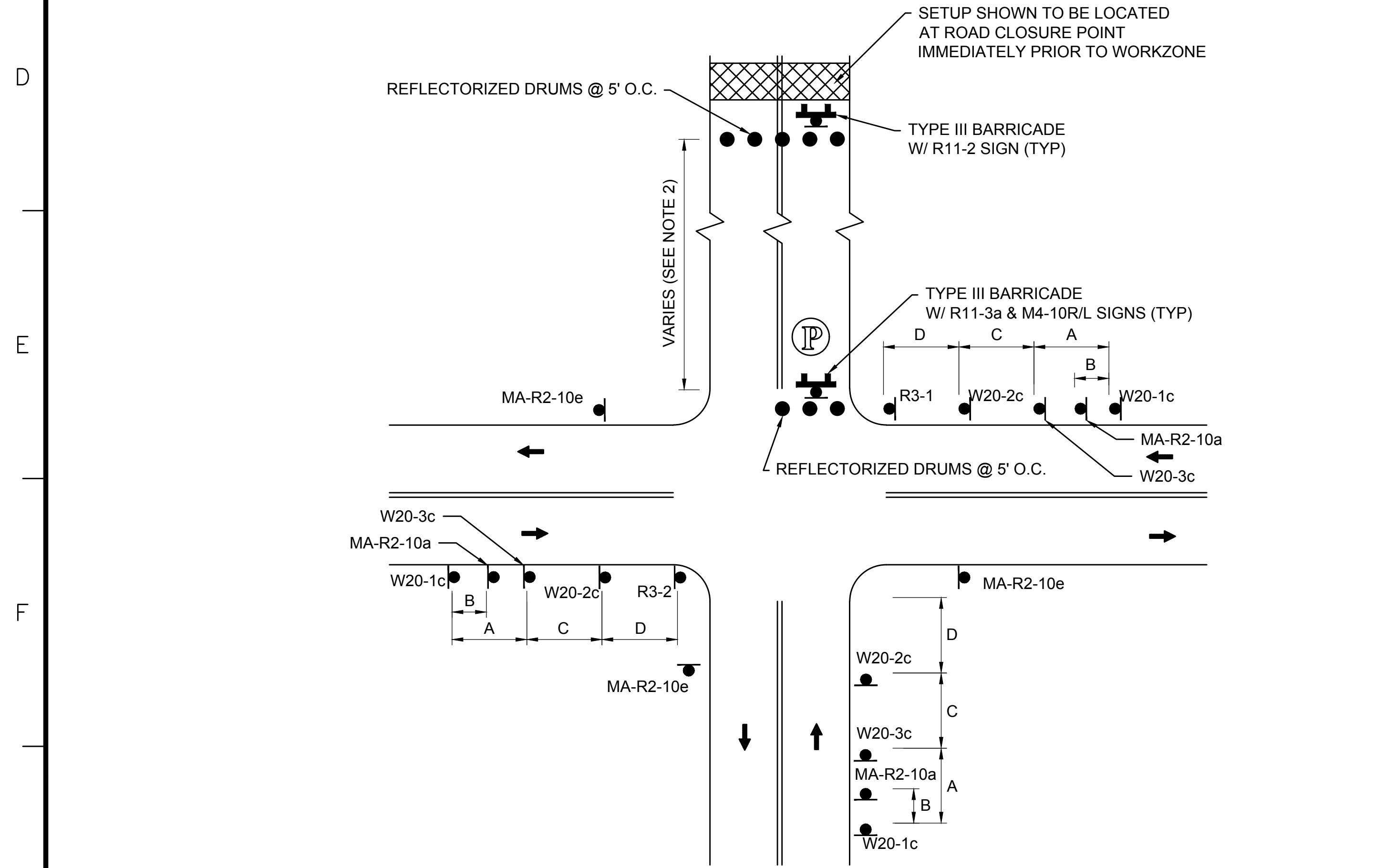
SCALE: NTS



NOTE:
1. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.

TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC

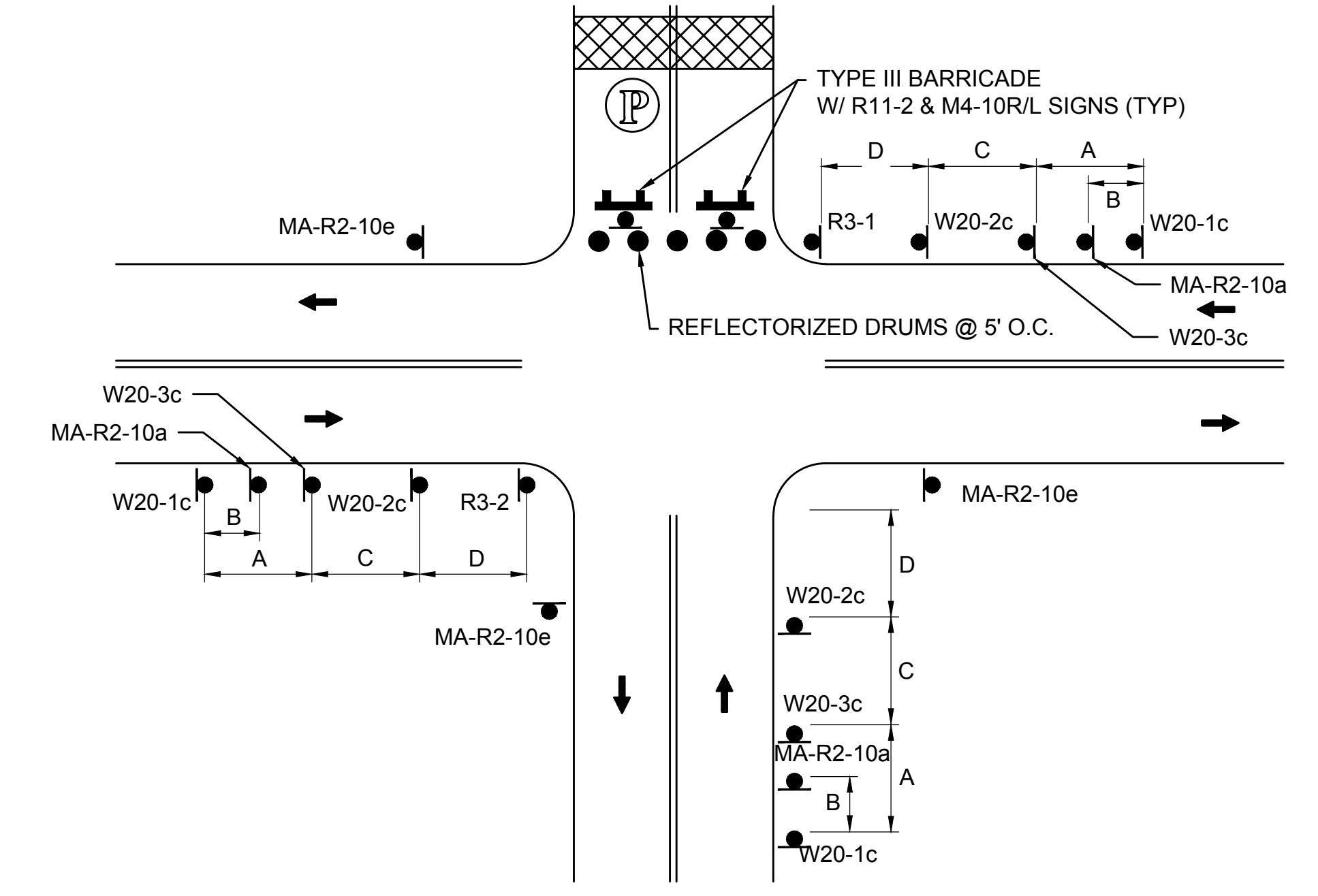
SCALE: NTS



NOTE:
1. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.
2. SEE DETOUR PLAN FOR LOCATION OF WORKZONE AND PARTIAL ROAD CLOSURE.

TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS

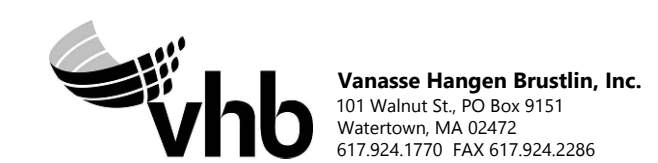
SCALE: NTS



NOTE:
1. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.

TYPICAL LOCAL ROAD CLOSURE

SCALE: NTS



| NO. | | DESCRIPTION | | BY | DATE | APPR. |
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| REVISION | | | | | | |
| EVERSOURCE | | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | |
| TEMPORARY TRAFFIC CONTROL PLANS | | | | | | |
| TYPICAL DETAILS | | | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MM | CHK'D. KW | APPR. MES | DRAWING NO. 131 OF 348 | REV. . |

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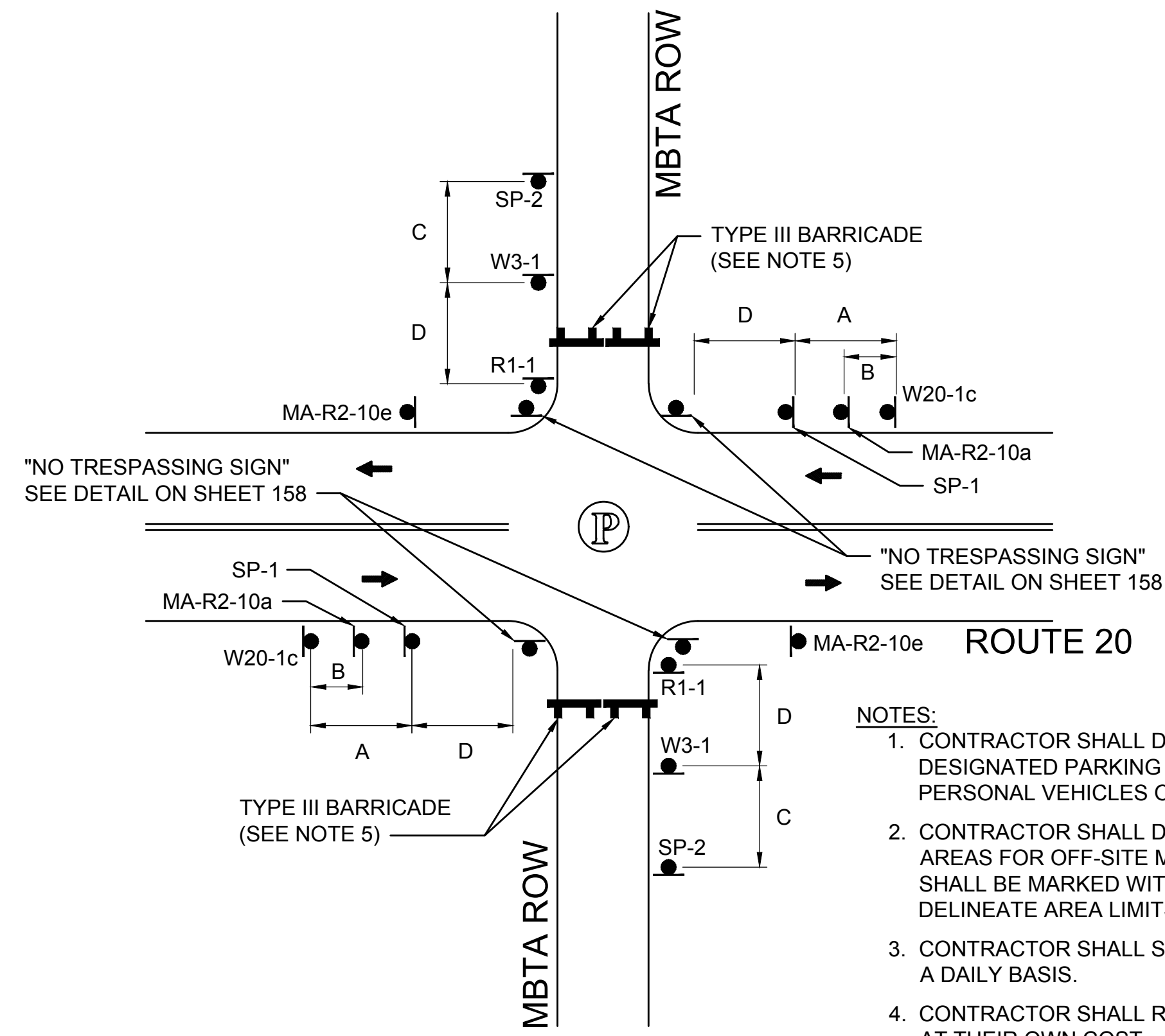
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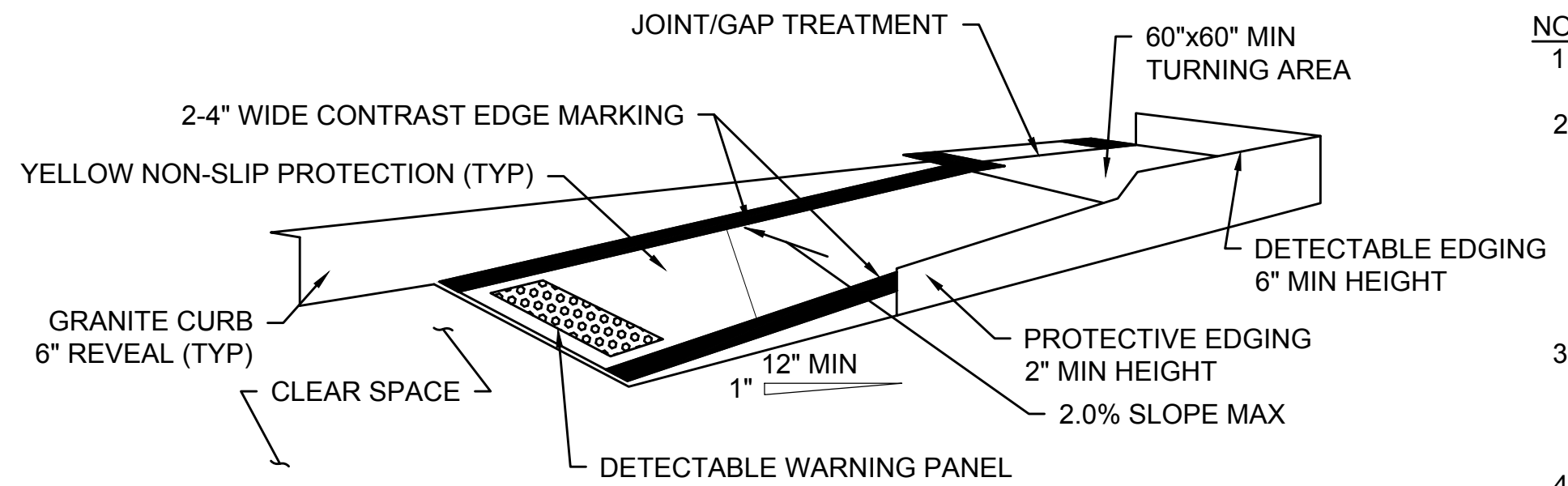
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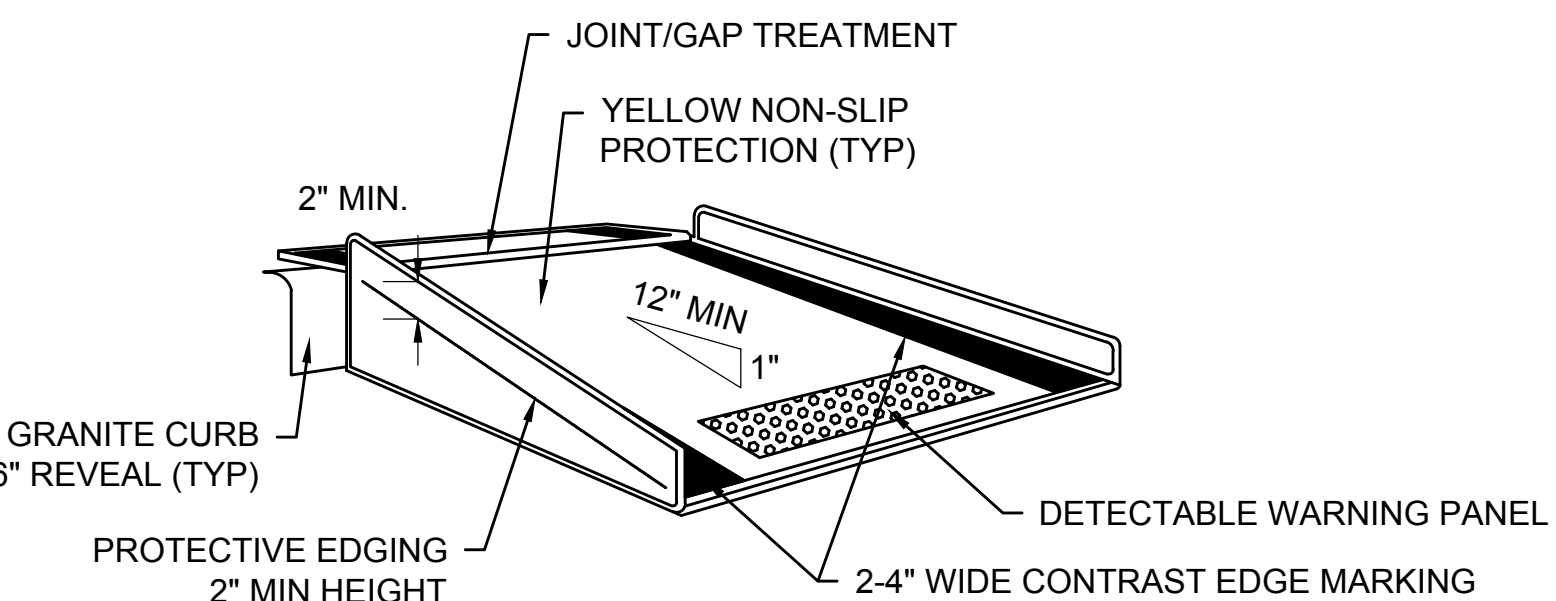
- NOTES:**
- CONTRACTOR SHALL DEVELOP WORK ZONE STAGING AREAS WITH DESIGNATED PARKING FOR EMPLOYEES. PARKING OF WORKERS' PERSONAL VEHICLES ON PUBLIC PROPERTY IS STRICTLY PROHIBITED.
 - CONTRACTOR SHALL DESIGNATE MATERIAL STORAGE AND STAGING AREAS FOR OFF-SITE MATERIAL STORAGE. OFF-SITE STORAGE AREAS SHALL BE MARKED WITH REFLECTORIZED DRUMS TO CLEARLY DELINEATE AREA LIMITS.
 - CONTRACTOR SHALL SWEEP PAVED AREAS ADJACENT TO THE SITE ON A DAILY BASIS.
 - CONTRACTOR SHALL REPAIR DAMAGED ROADWAYS AND SIDEWALKS AT THEIR OWN COST.
 - TYPE III BARRICADE TO BE PLACED DURING NON-WORKING HOURS.

TYPICAL WORKZONE ACCESS

SCALE: NTS



TEMPORARY CURB RAMP-PARALLEL TO CURB



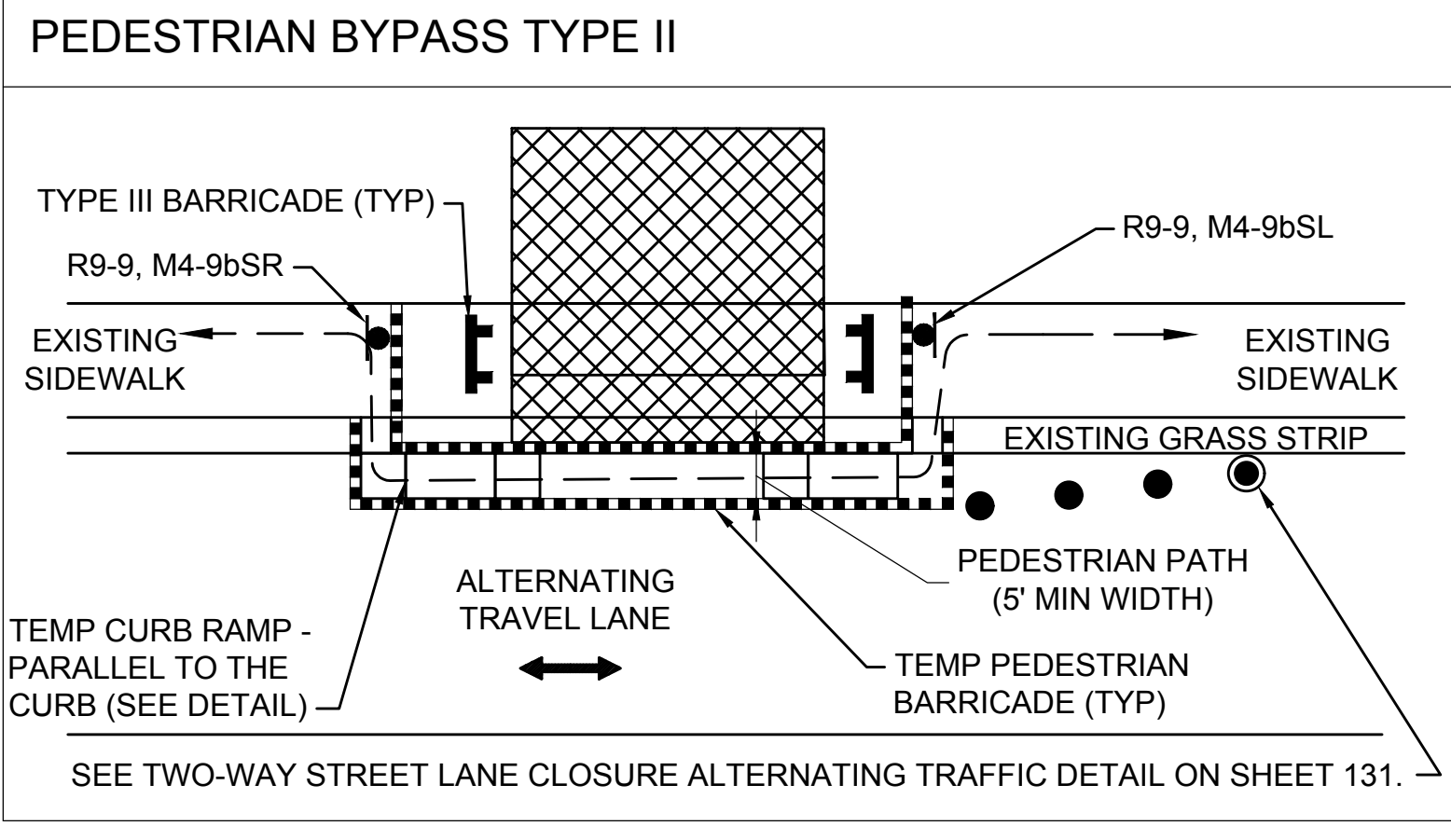
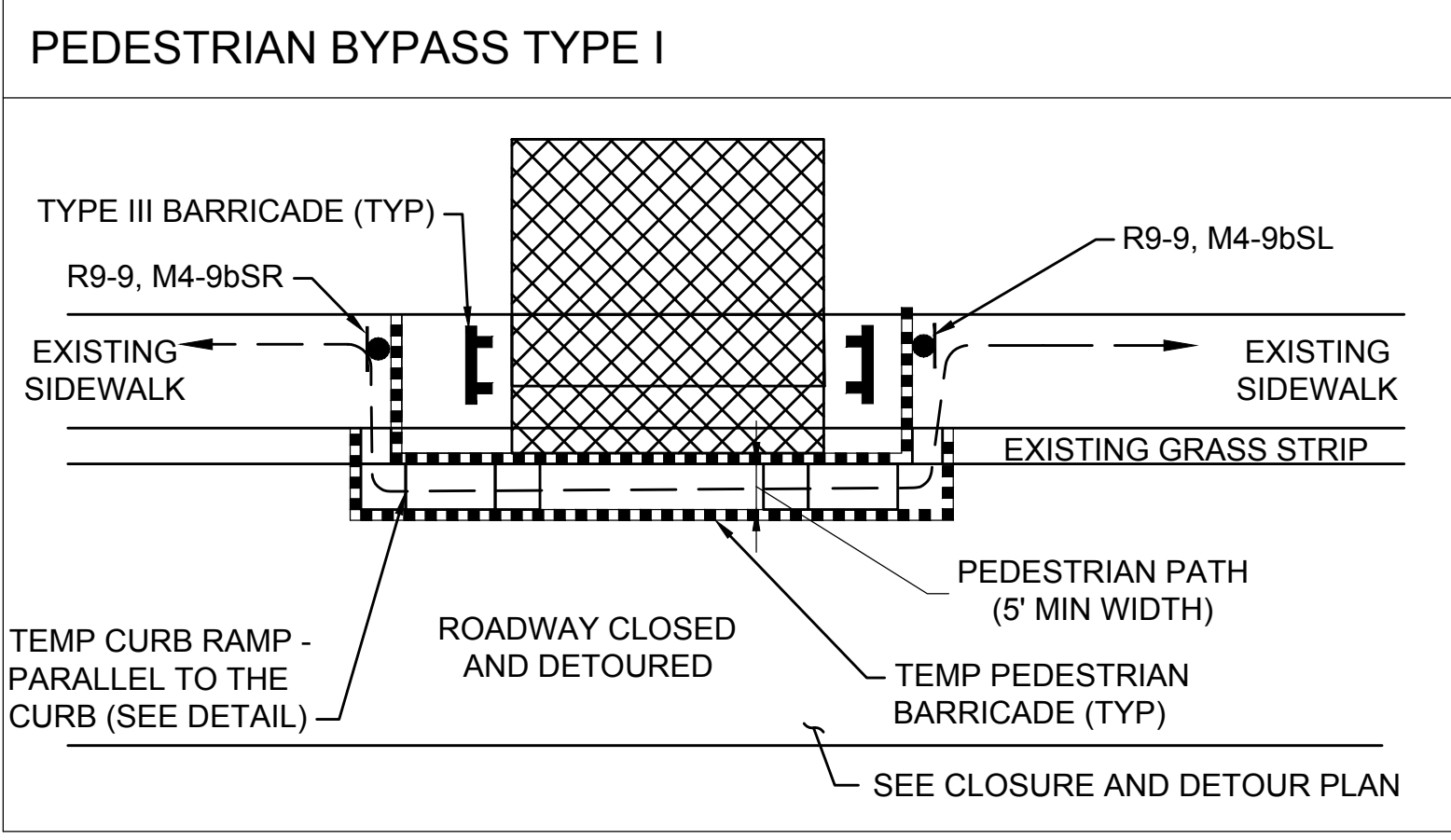
TEMPORARY CURB RAMP-PERPENDICULAR TO CURB

TEMPORARY CURB RAMPS

SCALE: NTS

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

- NOTES:**
- ADDITIONAL ADVANCE WARNING SIGNS MAY BE NECESSARY AS DETERMINED BY THE ENGINEER.
 - CONTROLS FOR PEDESTRIAN TRAFFIC ONLY, ARE SHOWN. VEHICULAR TRAFFIC SHALL BE MAINTAINED AS SHOWN ELSEWHERE.
 - STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
 - → → INDICATES DIRECTION OF PEDESTRIAN TRAVEL.
 - ALL TEMPORARY PEDESTRIAN PATHWAYS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE MUTCD AND ALL APPLICABLE MAAB AND ADAAG REQUIREMENTS AND INCLUDE THE USE OF A COMPLIANT TEMPORARY PEDESTRIAN MANAGEMENT GUIDANCE SYSTEM AT ALL TIMES.
 - CONTRACTOR SHALL MAINTAIN AS WIDE OF A PEDESTRIAN ACCESS AS POSSIBLE AT ALL TIMES. EXCEPT WHERE NECESSARY, THE CONTRACTOR MAY TEMPORARILY REDUCE PEDESTRIAN PATHWAYS TO 4 FEET IN WIDTH (EXCLUDING CURB) FOR NO MORE THAN 200 LINEAR FEET AT A TIME IN ACCORDANCE WITH ALL STANDARDS. A 5' x 5' PASSING AREA SHALL BE PROVIDED IN INTERVALS NOT EXCEEDING 200 FEET.
 - TEMPORARY WHEELCHAIR RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MASSDOT, MAAB, AND ADAAG REQUIREMENTS.

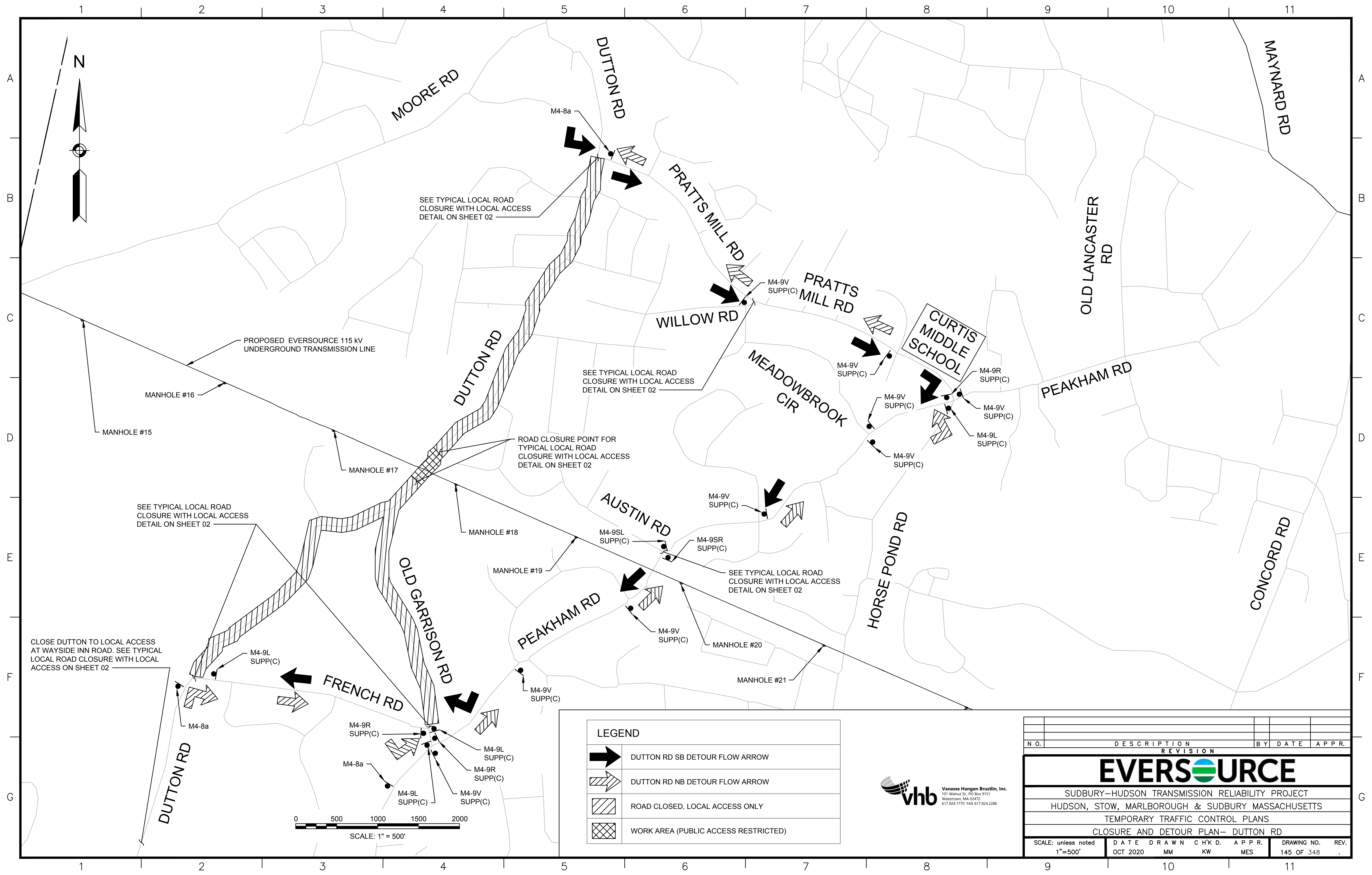


PEDESTRIAN BYPASS DETAIL

SCALE: NTS



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|---------------------------|-------------|--------------|--------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| TEMPORARY TRAFFIC CONTROL PLANS | | | | |
| TYPICAL DETAILS | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MM | CHK'D. KW | APPR. MES |
| | DRAWING NO. 132 OF 348 | REV. | | |



SEE TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS DETAIL ON SHEET 02

PROPOSED EVERSOURCE 115 kV UNDERGROUND TRANSMISSION LINE

MANHOLE #16

MANHOLE #15

MANHOLE #17

SEE TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS DETAIL ON SHEET 02

ROAD CLOSURE POINT FOR TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS DETAIL ON SHEET 02

MANHOLE #18

CLOSE DUTTON TO LOCAL ACCESS AT WAYSIDE INN ROAD. SEE TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS ON SHEET 02

SEE TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS DETAIL ON SHEET 02

M4-9V SUPP(C)

SEE TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS DETAIL ON SHEET 02

M4-9SL SUPP(C)

M4-9SR SUPP(C)

MANHOLE #19

SEE TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS DETAIL ON SHEET 02

M4-9V SUPP(C)

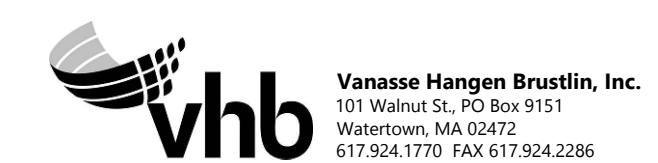
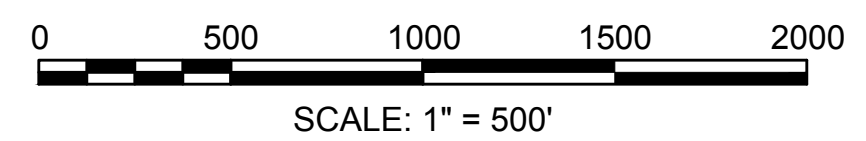
MANHOLE #20

M4-9V SUPP(C)

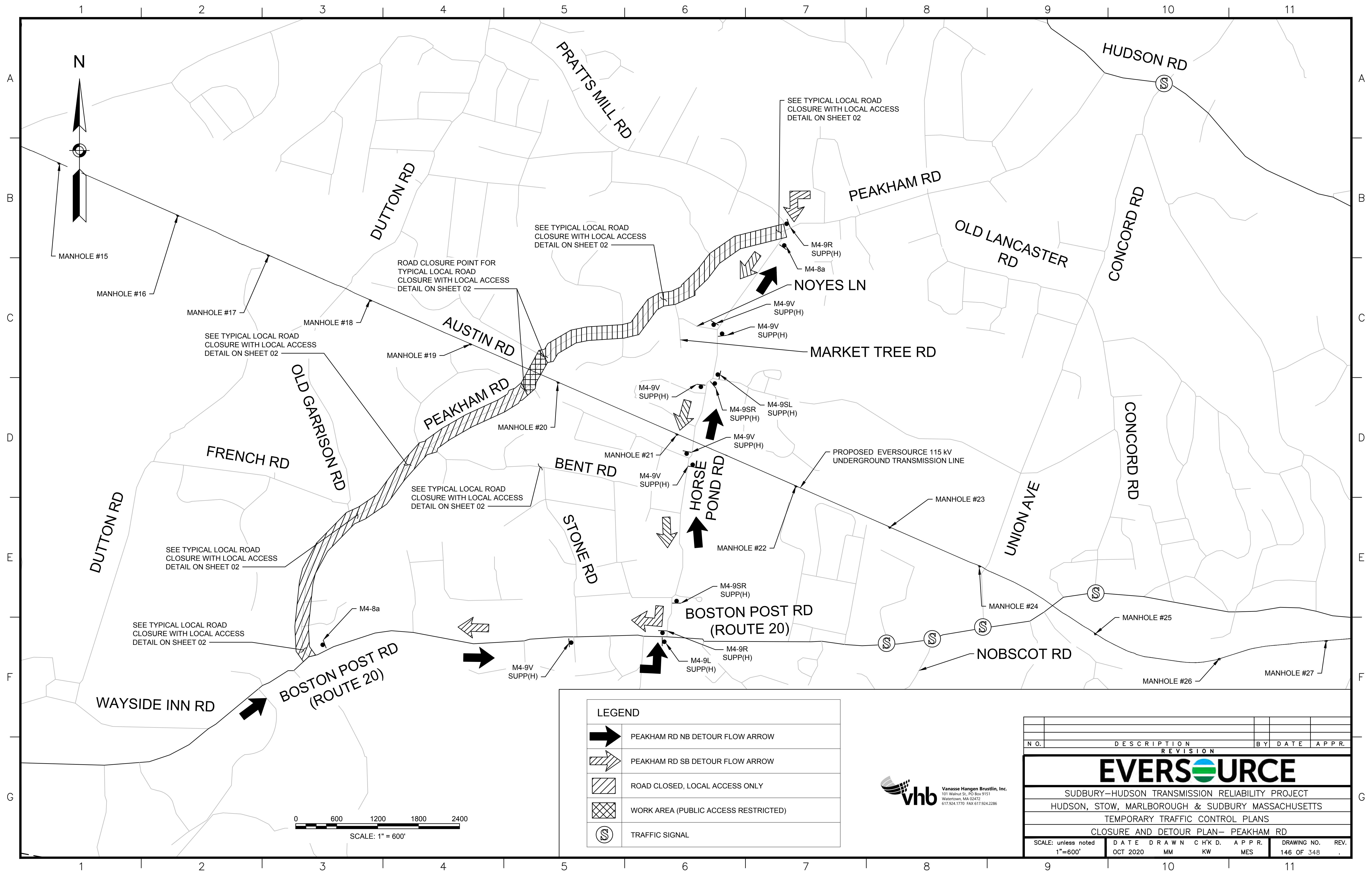
MANHOLE #21

LEGEND

- DUTTON RD SB DETOUR FLOW ARROW
- DUTTON RD NB DETOUR FLOW ARROW
- ROAD CLOSED, LOCAL ACCESS ONLY
- WORK AREA (PUBLIC ACCESS RESTRICTED)

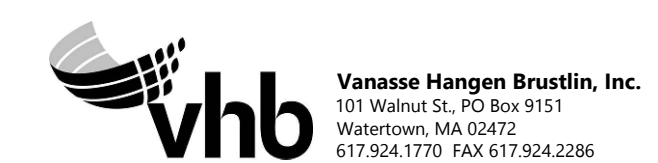


| NO. | | DESCRIPTION | | BY | DATE | APPR. |
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| REVISION | | | | | | |
| EVERSOURCE | | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | |
| TEMPORARY TRAFFIC CONTROL PLANS | | | | | | |
| CLOSURE AND DETOUR PLAN- DUTTON RD | | | | | | |
| SCALE: unless noted 1"=500' | DATE | DRAWN | CHK'D. | APPR. | DRAWING NO. | REV. |
| | OCT 2020 | MM | KW | MES | 145 OF 348 | |

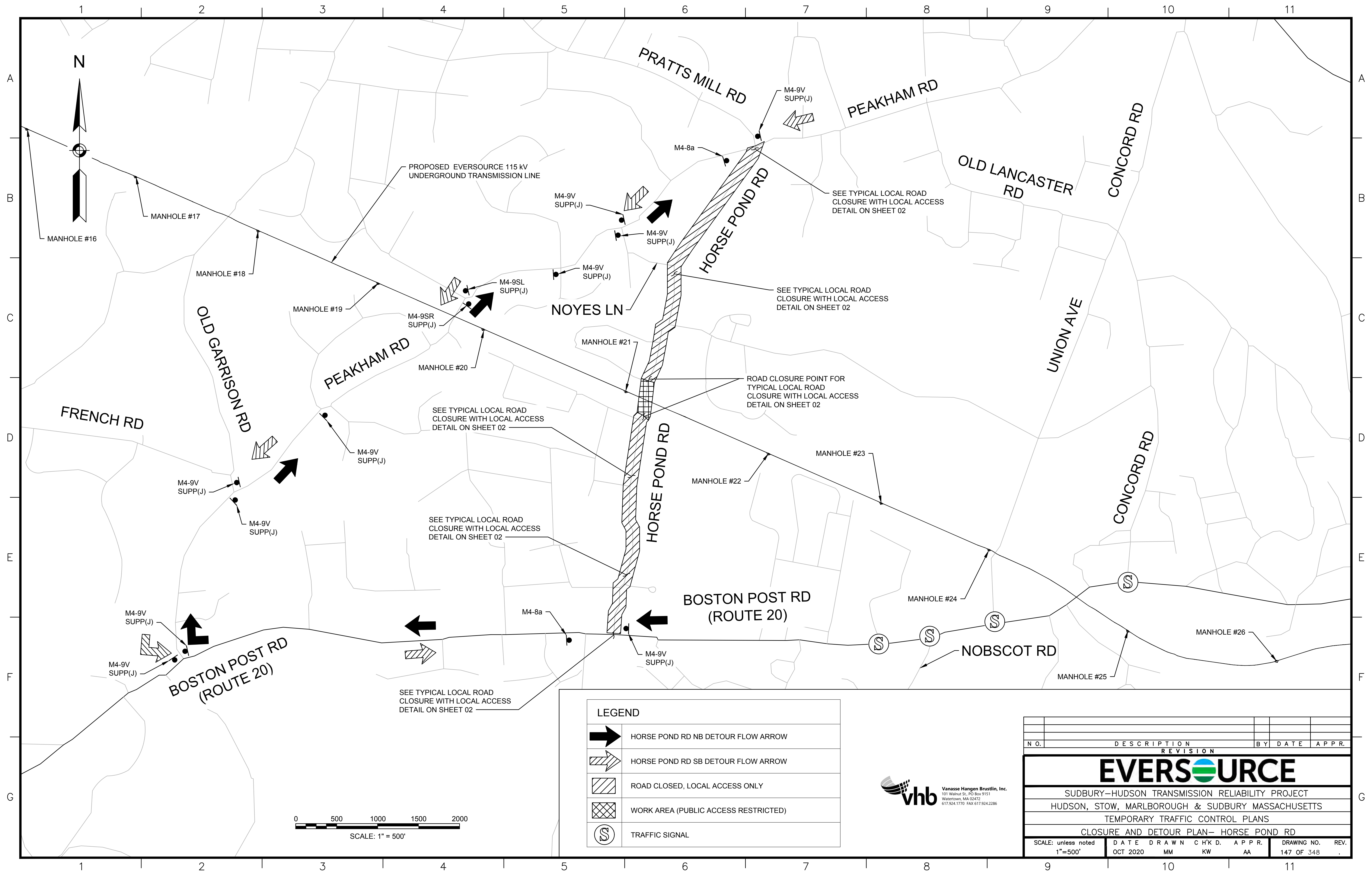


LEGEND

| | |
|--|--------------------------------------|
| | PEAKHAM RD NB DETOUR FLOW ARROW |
| | PEAKHAM RD SB DETOUR FLOW ARROW |
| | ROAD CLOSED, LOCAL ACCESS ONLY |
| | WORK AREA (PUBLIC ACCESS RESTRICTED) |
| | TRAFFIC SIGNAL |



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|-------------|-------|-------|-------|
| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| TEMPORARY TRAFFIC CONTROL PLANS | | | | |
| CLOSURE AND DETOUR PLAN- PEAKHAM RD | | | | |
| SCALE: unless noted 1"=600' | DATE | DRAWN | CHK'D | APPR. |
| | OCT 2020 | MM | KW | MES |
| DRAWING NO. | REV. | | | |
| 146 OF 348 | | | | |



LEGEND

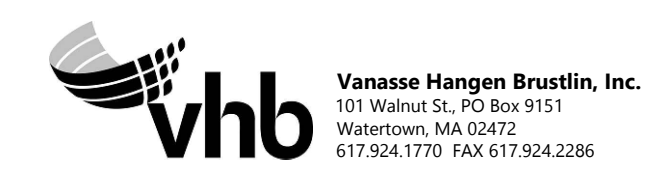
| | |
|--|--------------------------------------|
| | HORSE POND RD NB DETOUR FLOW ARROW |
| | HORSE POND RD SB DETOUR FLOW ARROW |
| | ROAD CLOSED, LOCAL ACCESS ONLY |
| | WORK AREA (PUBLIC ACCESS RESTRICTED) |
| | TRAFFIC SIGNAL |

| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 TEMPORARY TRAFFIC CONTROL PLANS
 CLOSURE AND DETOUR PLAN- HORSE POND RD

| | | | | | | |
|--------------------------------|------------------|-------------|-------------|-------------|---------------------------|------|
| SCALE: unless noted 1"=500' | DATE OCT 2020 | DRAWN MM | CHK'D KW | APPR. AA | DRAWING NO. 147 OF 348 | REV. |
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TEMPORARY TRAFFIC CONTROL SIGN SUMMARY

| IDENTIFICATION NUMBER | SIZE OF SIGN | | TEXT | TEXT DIMENSIONS (INCHES) | | | COLOR | | |
|-----------------------|--------------|--------|------|---|------------------|-----------------|---------------------|-----------|--------|
| | WIDTH | HEIGHT | | LETTER HEIGHT | VERTICAL SPACING | ARROW RTE. MKR. | BACK-GROUND | LEGEND | BORDER |
| R1-1 | 36" | 36" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | RED | WHITE | WHITE |
| MA-R2-10a | 48" | 36" | | AS PER MASSDOT STANDARD | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| MA-R2-10e | 36" | 48" | | AS PER MASSDOT STANDARD | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| R3-1 | 24" | 24" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | WHITE | RED/BLACK | BLACK |
| R3-2 | 24" | 24" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | WHITE | RED/BLACK | BLACK |
| R4-7b | 24" | 30" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | WHITE | BLACK | BLACK |
| R9-9 | 24" | 12" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | WHITE | BLACK | BLACK |
| R11-2 | 48" | 30" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | WHITE | BLACK | BLACK |
| R11-3a | 60" | 30" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | WHITE | BLACK | BLACK |
| W1-4L | 36" | 36" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| W1-4R | 36" | 36" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| W3-1 | 36" | 36" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| W5-1 | 36" | 36" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| W8-1 | 36" | 36" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| W8-8 | 36" | 36" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| W8-9 | 36" | 36" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| W20-1c | 36" | 36" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |

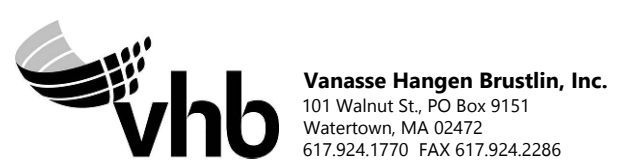
TEMPORARY TRAFFIC CONTROL SIGN SUMMARY (CONTINUED)

| IDENTIFICATION NUMBER | SIZE OF SIGN | | TEXT | TEXT DIMENSIONS (INCHES) | | | COLOR | | |
|-----------------------|--------------|--------|------|---|------------------|-----------------|---------------------|--------|--------|
| | WIDTH | HEIGHT | | LETTER HEIGHT | VERTICAL SPACING | ARROW RTE. MKR. | BACK-GROUND | LEGEND | BORDER |
| W20-2c | 36" | 36" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| W20-3c | 36" | 36" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| W20-4c | 36" | 36" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| MA-W20-7b | 36" | 36" | | AS PER MASSDOT STANDARD | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| W24-2 (MOD) | 36" | 36" | | AS PER MASSDOT STANDARD | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| M4-4 | 24" | 12" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | WHITE | BLACK | BLACK |
| M4-8a | 24" | 18" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| M4-9L | 30" | 24" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| M4-9R | 30" | 24" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| M4-9SL | 30" | 24" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| M4-9SR | 30" | 24" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| M4-9V | 30" | 24" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | BLACK |
| M4-10L | 48" | 18" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | --- |
| M4-10R | 48" | 18" | | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED | | | FLUOR-ESCENT ORANGE | BLACK | --- |

NOTES:
 1. HIGH INTENSITY REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION" FOR TEXT DIMENSIONS, AS AMENDED; THE 1977 MASSHIGHWAY DEPARTMENT CONSTRUCTION AND TRAFFIC STANDARD DETAILS, AS AMENDED, FOR SIGNS AND SUPPORTS; THE MASSHIGHWAY DEPARTMENT SIGN LISTINGS 1993 EDITION, AS AMENDED; THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR MOUNTING REQUIREMENTS; AND THE 2017 MassDOT STANDARD SIGNS BOOK, AS AMENDED.
 2. ALL SIGNS SHOWN GRAPHICALLY FOR INFORMATION ONLY. SIGN VENDOR SHALL FABRICATE ALL SIGNS IN ACCORDANCE WITH THE APPLICABLE STANDARDS.

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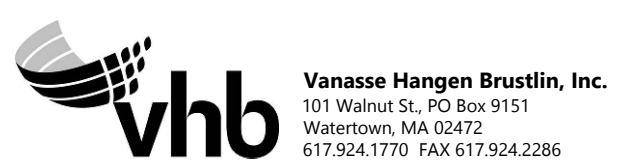


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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| TEMPORARY TRAFFIC CONTROL PLANS | | | | |
| SIGN SUMMARY | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MM | CHK'D. KW | APPR. MES |
| DRAWING NO. 150 OF 348 | REV. | | | |

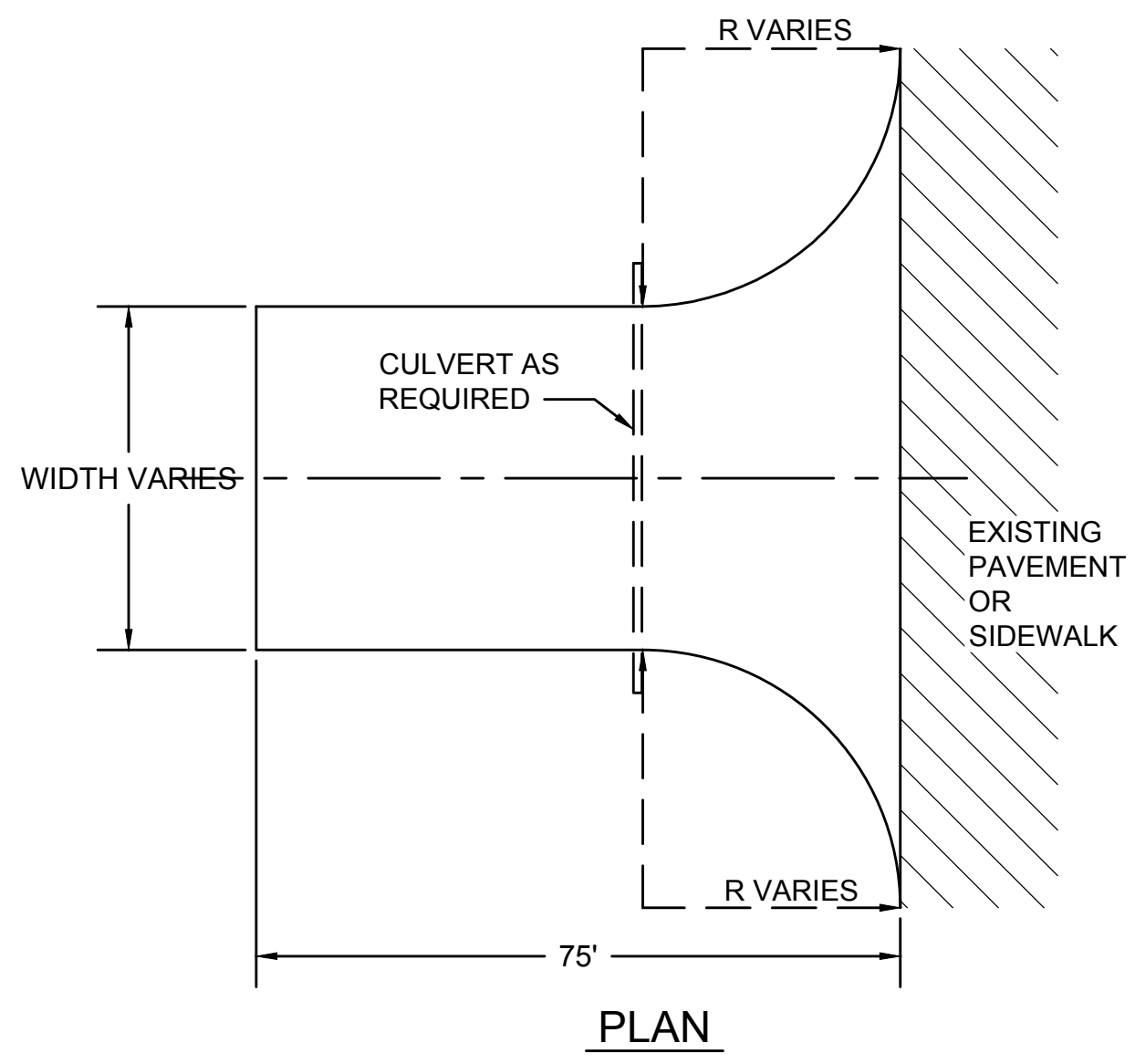
TEMPORARY TRAFFIC CONTROL SIGN SUMMARY (CONTINUED)

| IDENTIFICATION NUMBER | SIZE OF SIGN | | TEXT | TEXT DIMENSIONS (INCHES) | | | COLOR | | |
|-----------------------|--------------|--------|---------------------------|--------------------------|------------------|-----------------|--------------------|--------|--------|
| | WIDTH | HEIGHT | | LETTER HEIGHT | VERTICAL SPACING | ARROW RTE. MKR. | BACK-GROUND | LEGEND | BORDER |
| SUPP(A) | 48" | 12" | MARLBORO RD | 6"C | 3" 3" | N/A | FLUORESCENT ORANGE | BLACK | BLACK |
| SUPP(B) | 48" | 12" | CHESTNUT ST | 6"C | 3" 3" | N/A | FLUORESCENT ORANGE | BLACK | BLACK |
| SUPP(C) | 42" | 12" | DUTTON RD | 6"C | 3" 3" | N/A | FLUORESCENT ORANGE | BLACK | BLACK |
| SUPP(D) | 36" | 24" | WHITE POND RD | 6"C 6"C | 4" 4" 4" | N/A | FLUORESCENT ORANGE | BLACK | BLACK |
| SUPP(E) | 48" | 12" | CONCORD RD | 6"C | 3" 3" | N/A | FLUORESCENT ORANGE | BLACK | BLACK |
| SUPP(F) | 42" | 12" | FOREST AVE | 6"C | 3" 3" | N/A | FLUORESCENT ORANGE | BLACK | BLACK |
| SUPP(G) | 48" | 24" | JOHN ROBINSON DR | 6"C 6"C | 4" 4" 4" | N/A | FLUORESCENT ORANGE | BLACK | BLACK |
| SUPP(H) | 48" | 12" | PEAKHAM RD | 6"C | 3" 3" | N/A | FLUORESCENT ORANGE | BLACK | BLACK |
| SUPP(J) | 60" | 12" | HORSE POND RD | 6"C | 3" 3" | N/A | FLUORESCENT ORANGE | BLACK | BLACK |
| SP-1 | 36" | 36" | CAUTION VEHICLES ENTERING | 6"C 6"C 6"C | 3.5" 3.5" | N/A | FLUORESCENT ORANGE | BLACK | BLACK |
| SP-2 | 36" | 36" | ROAD CROSSING AHEAD | 6"C 6"C 6"C | 3.5" 3.5" | N/A | FLUORESCENT ORANGE | BLACK | BLACK |

NOTES:
 1. HIGH INTENSITY REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION" FOR TEXT DIMENSIONS, AS AMENDED; THE 1977 MASSHIGHWAY DEPARTMENT CONSTRUCTION AND TRAFFIC STANDARD DETAILS, AS AMENDED, FOR SIGNS AND SUPPORTS; THE MASSHIGHWAY DEPARTMENT SIGN LISTINGS 1993 EDITION, AS AMENDED; THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR MOUNTING REQUIREMENTS; AND THE 2017 MassDOT STANDARD SIGNS BOOK, AS AMENDED.
 2. ALL SIGNS SHOWN GRAPHICALLY FOR INFORMATION ONLY. SIGN VENDOR SHALL FABRICATE ALL SIGNS IN ACCORDANCE WITH THE APPLICABLE STANDARDS.



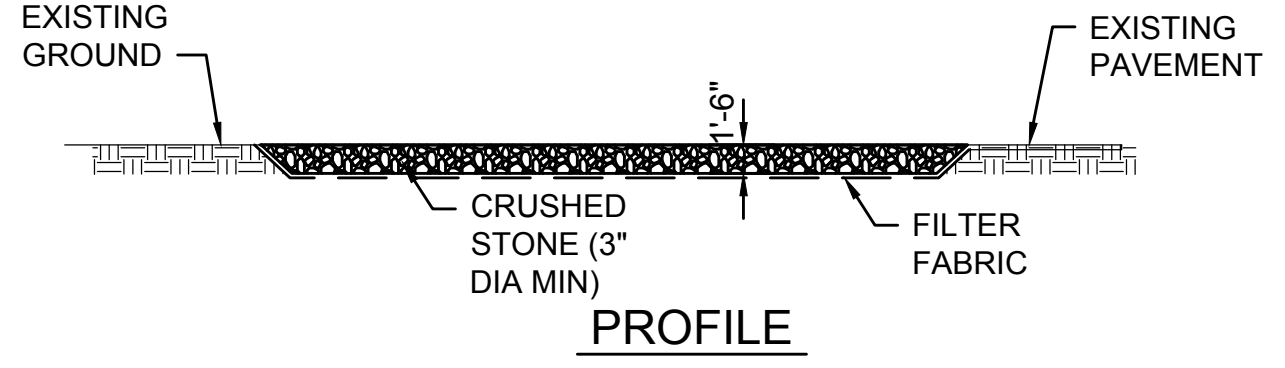
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| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| TEMPORARY TRAFFIC CONTROL PLANS | | | | |
| SIGN SUMMARY | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MM | CHK'D. KW | APPR. MES |
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PLAN

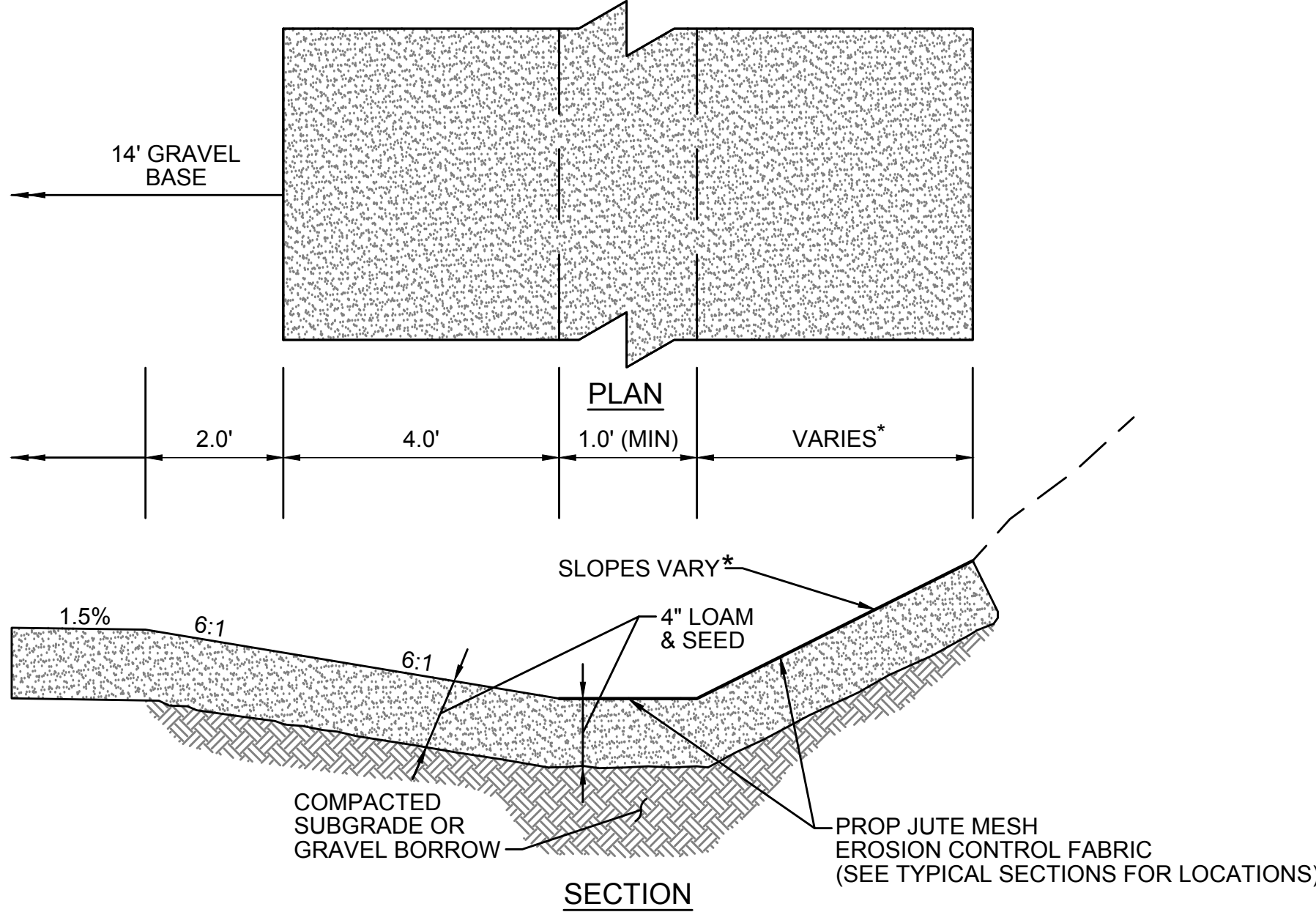
| STABILIZED CONSTRUCTION ENTRANCE LOCATIONS |
|--|
| WILKINS STREET |
| MAIN STREET |
| PARMENTER ROAD |
| WHITE POND ROAD |
| DUTTON ROAD |
| PEAKHAM ROAD |
| HORSE POND ROAD |
| UNION AVENUE |
| BOSTON POST ROAD |
| SUDBURY SUBSTATION DRIVEWAY |

- NOTES:**
1. ALL STABILIZED CONSTRUCTION ENTRANCES SHALL BE WITHIN LIMITS OF GRADING SHOWN ON CONSTRUCTION PLANS.
 2. CONSTRUCTION ENTRANCES TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED AND DISTURBED AREA OUTSIDE OF 14' GRAVEL BASE TO BE LOAMED AND SEEDED AS SHOWN ON CONSTRUCTION PLANS.
 3. CONTRACTOR SHALL SWEEP PAVED AREAS ADJACENT TO THE SITE ON A DAILY BASIS.
 4. ALL PEDESTRIAN CROSSINGS MUST BE MAINTAINED AT ALL TIMES.
 5. CONTRACTOR TO REPLACE CRUSHED STONE WITH CLEAN STONE AS REQUIRED.



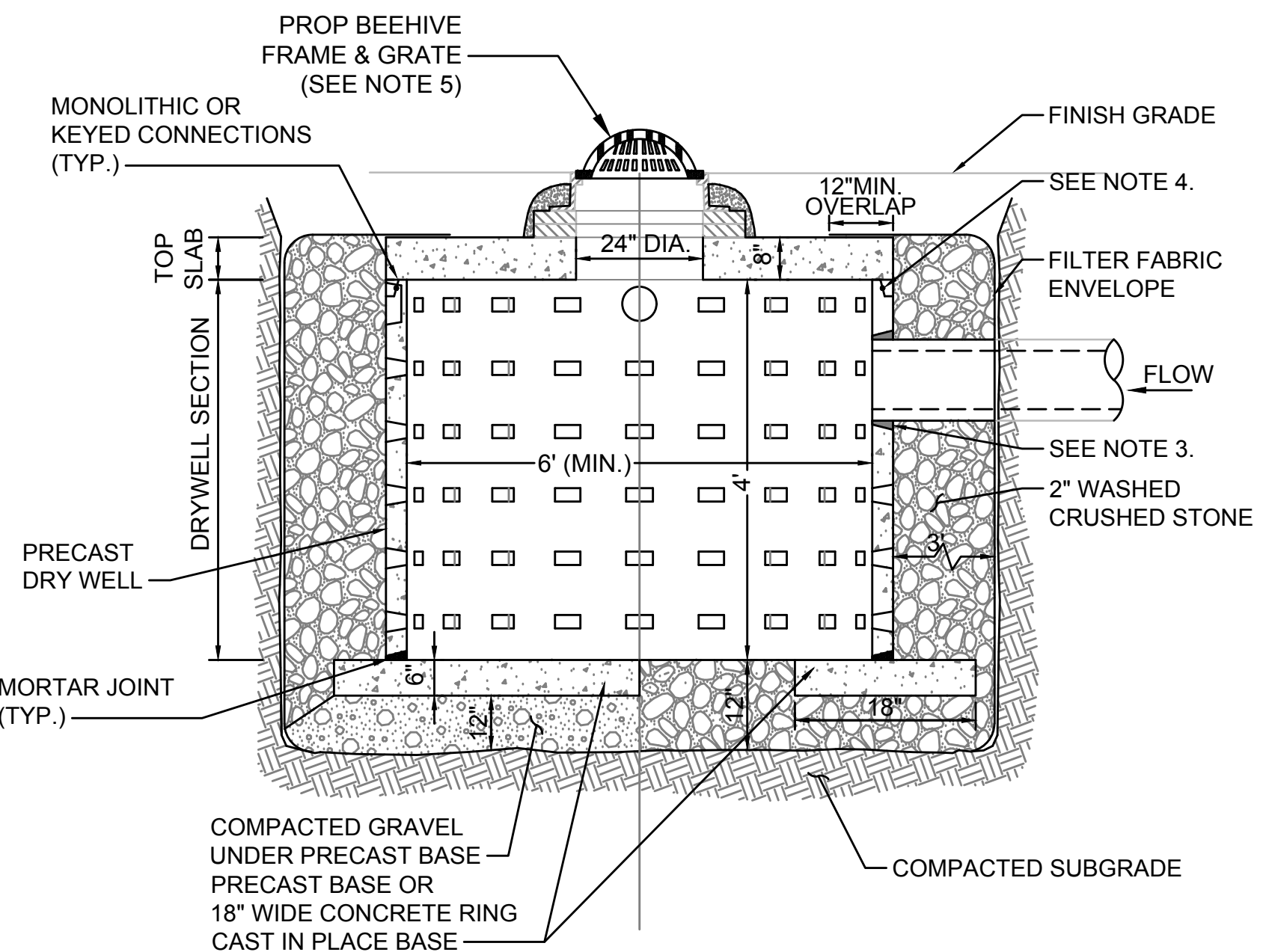
PROFILE

STABILIZED CONSTRUCTION ENTRANCE
SCALE: N.T.S.



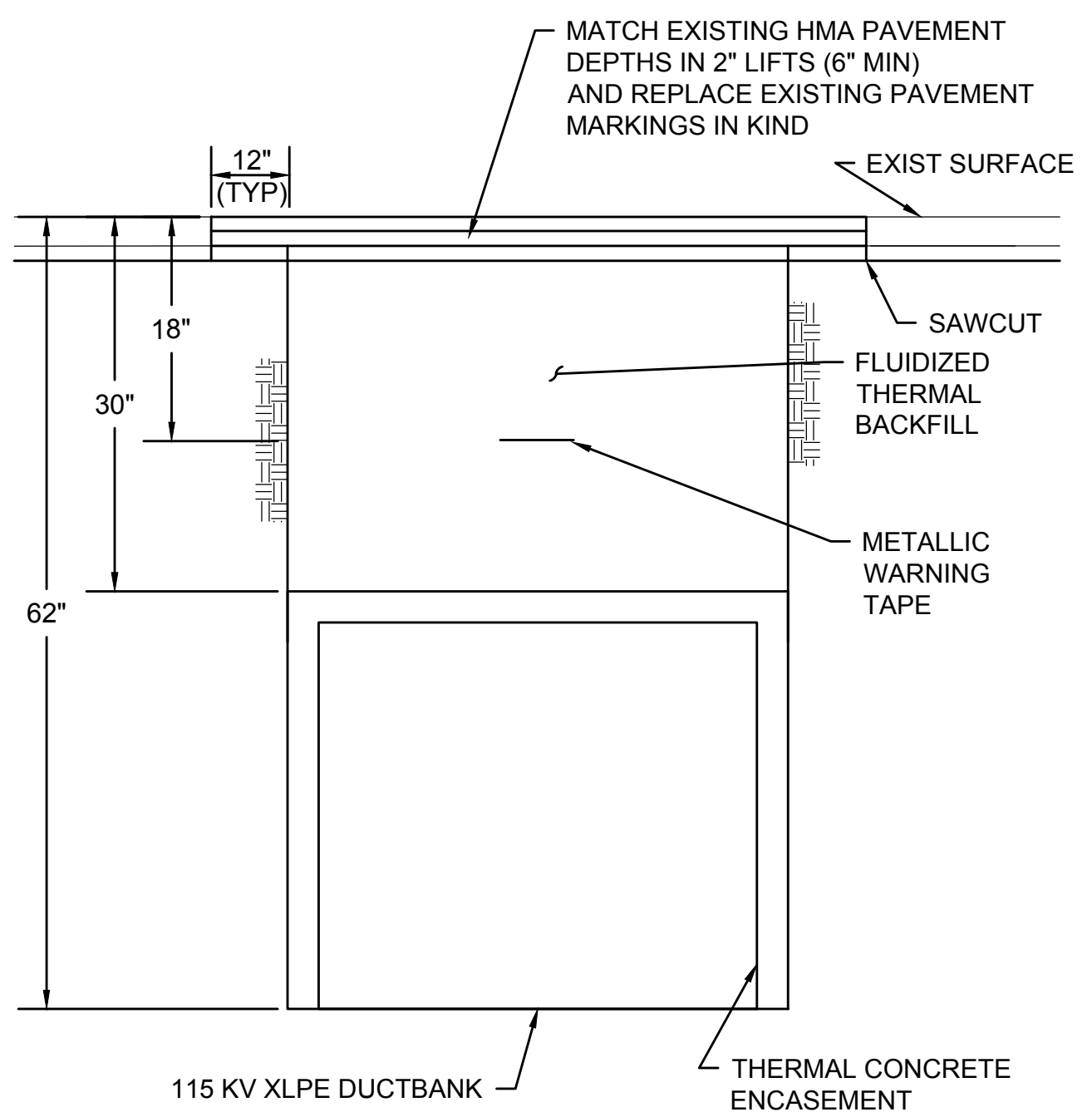
SECTION

SWALE/AREA OF INCREASED INFILTRATION
SCALE: N.T.S.

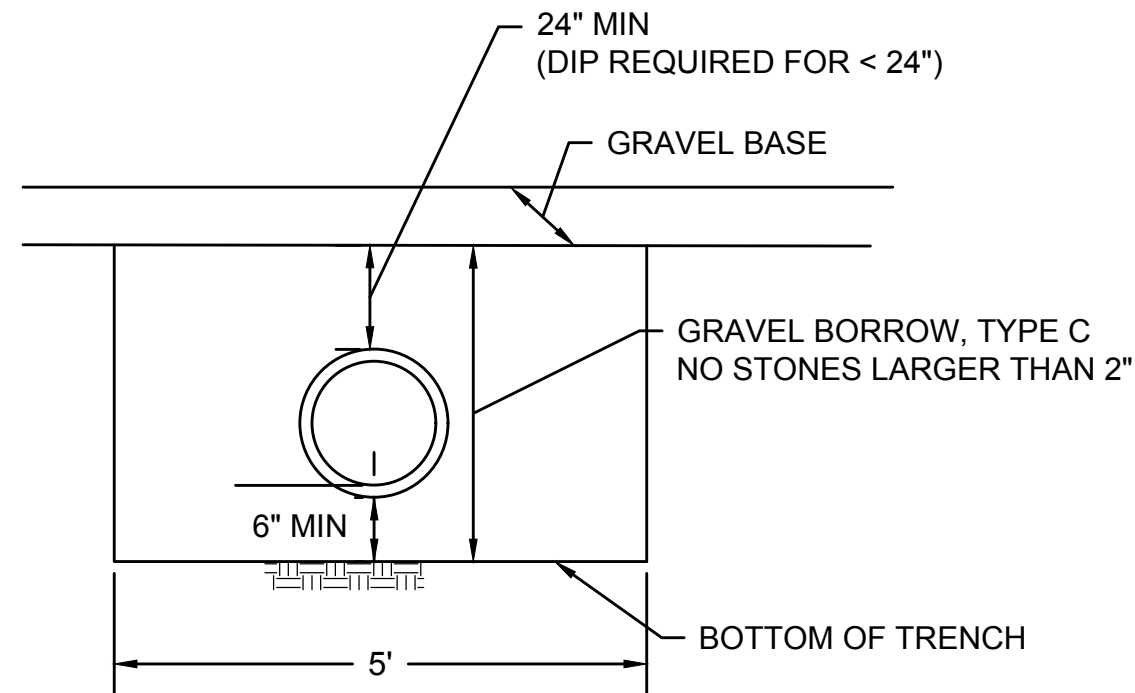


- NOTES**
1. BASE SECTION SHALL BE PRECAST CONCRETE WITH MORTARED JOINTS OR CAST IN PLACE.
 2. ALL COMPONENTS SHALL BE DESIGNED FOR HS-20 LOADING.
 3. PROVIDE PRECAST OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 5. BEEHIVE FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSE MINIMUM, 5 BRICK COURSE MAXIMUM)

LEACHING CATCH BASIN
SCALE: N.T.S.



DUCTBANK CROSSING ROADWAY
SCALE: N.T.S.



- NOTE:**
1. GRAVEL BORROW FOR TRENCH BACKFILL MUST BE NEW MATERIAL. EXCESS FILL MATERIAL FROM SITE CANNOT BE USED.

TRENCH DETAIL
SCALE: N.T.S.

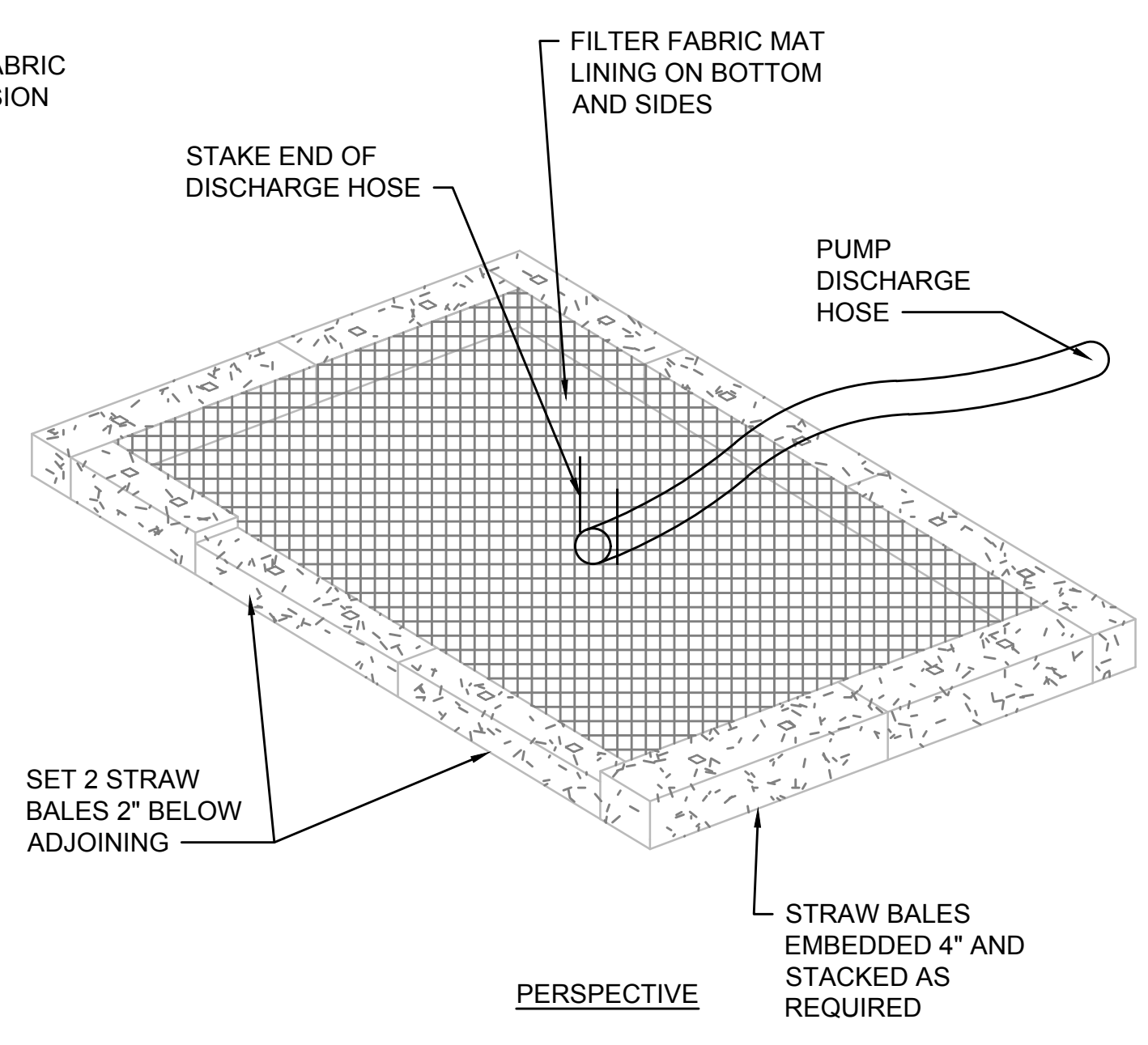
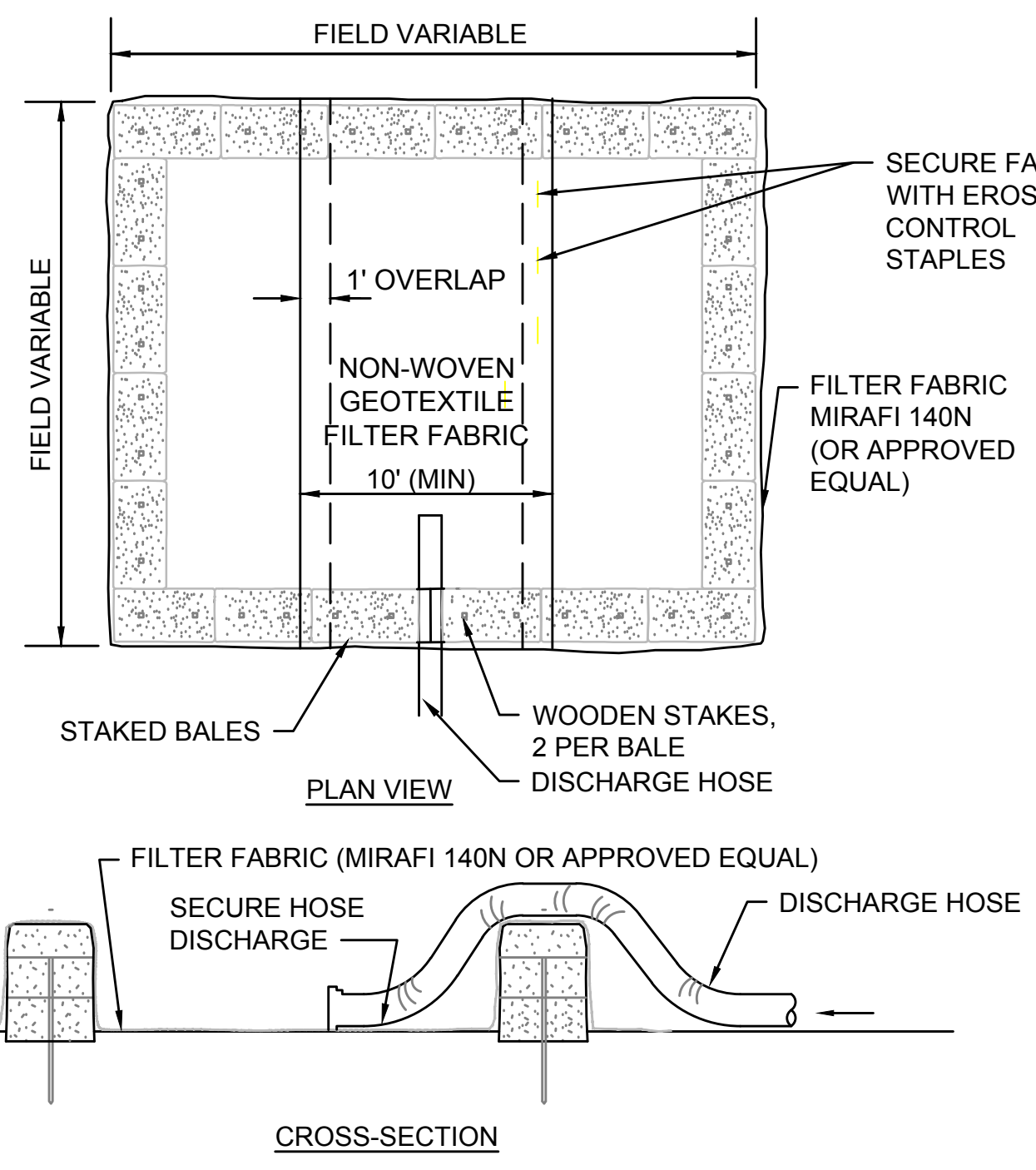
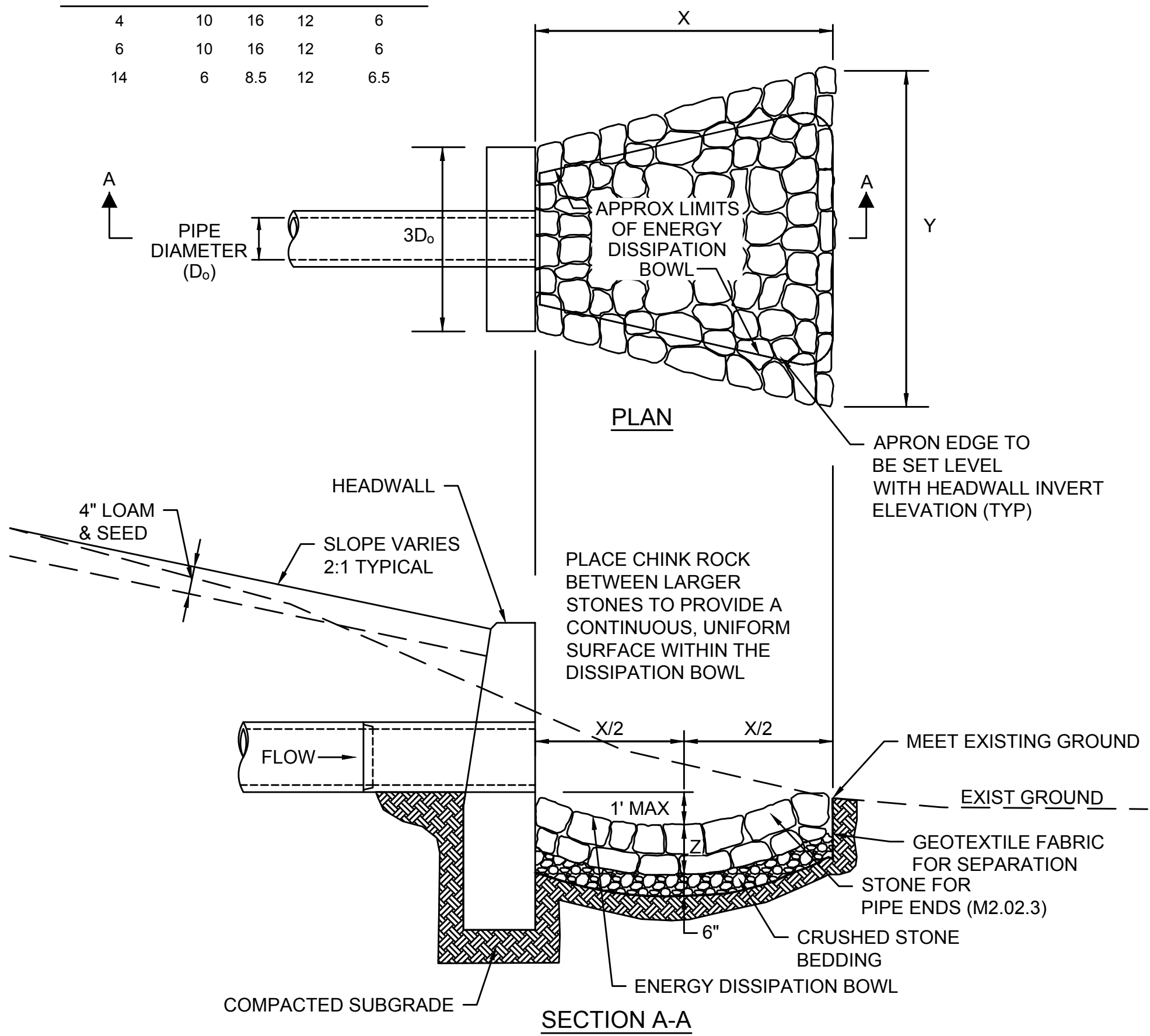
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| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION DETAILS | | | | |
| PLAN 152 OF 348 | | | | |
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RIPRAP STONE

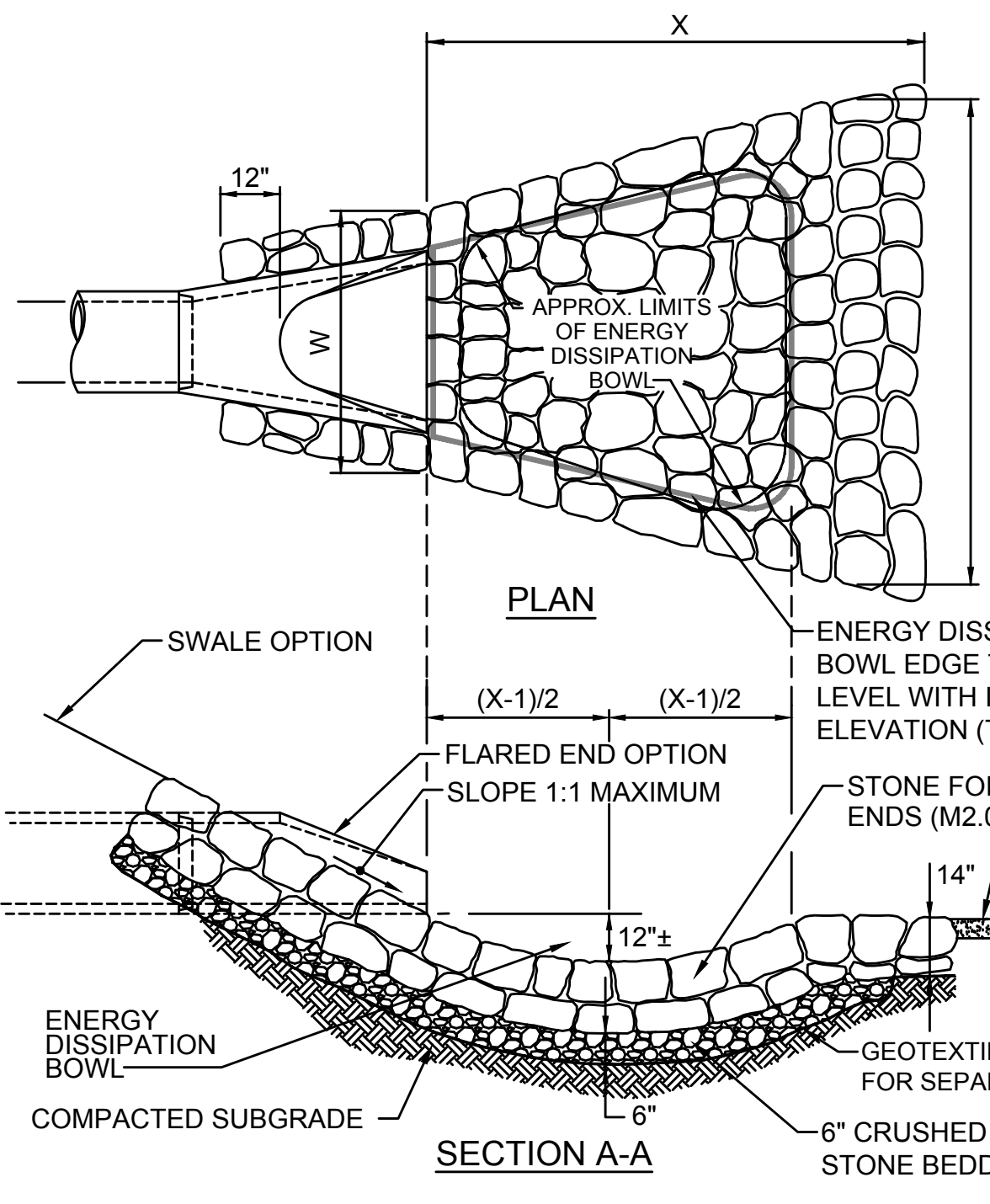
| STRUCTURE NUMBER | X (FT) | Y (FT) | Z (IN) | STONE DIA. (D ₅₀) (IN) |
|------------------|--------|--------|--------|------------------------------------|
| 4 | 10 | 16 | 12 | 6 |
| 6 | 10 | 16 | 12 | 6 |
| 14 | 6 | 8.5 | 12 | 6.5 |



- NOTES:**
1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
 2. THE BASIN TO BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN.

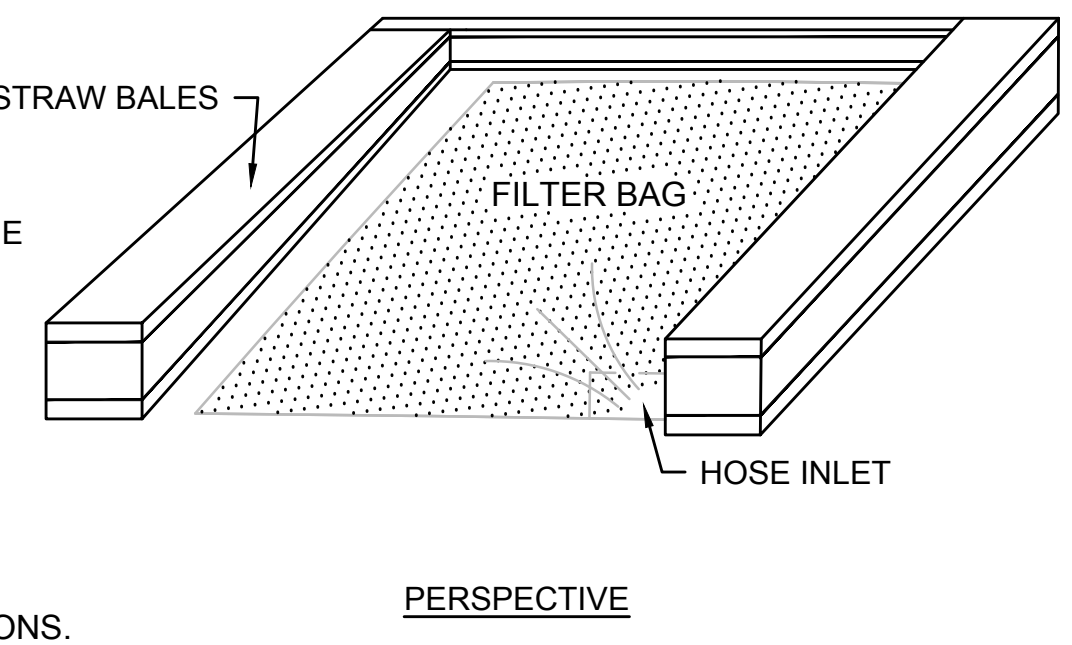
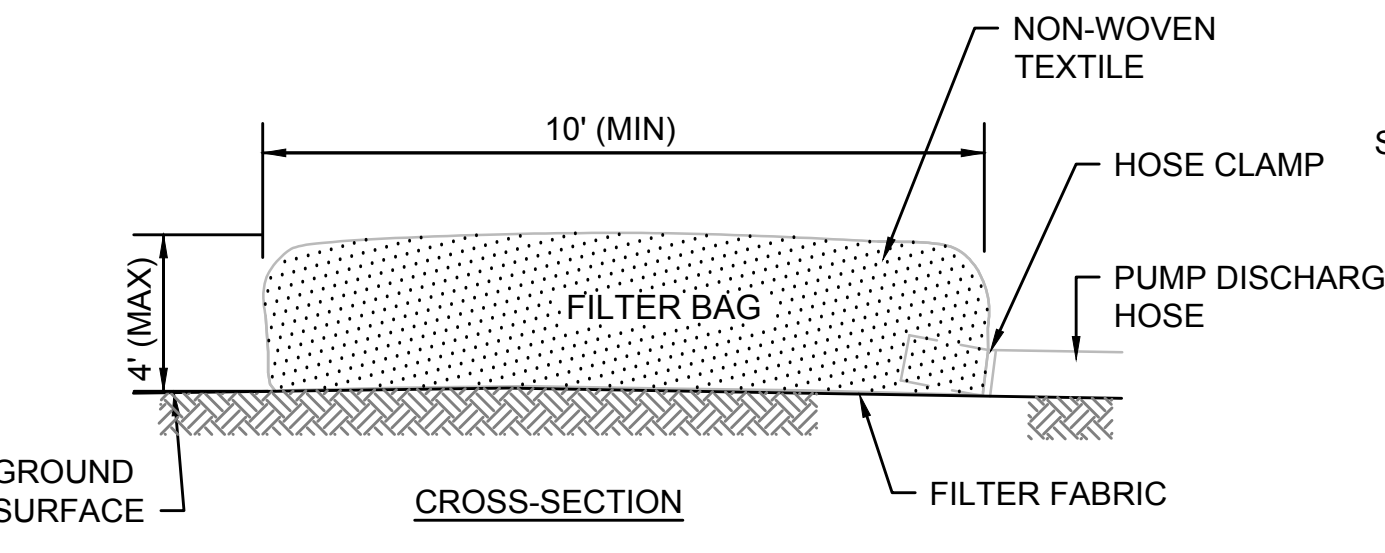
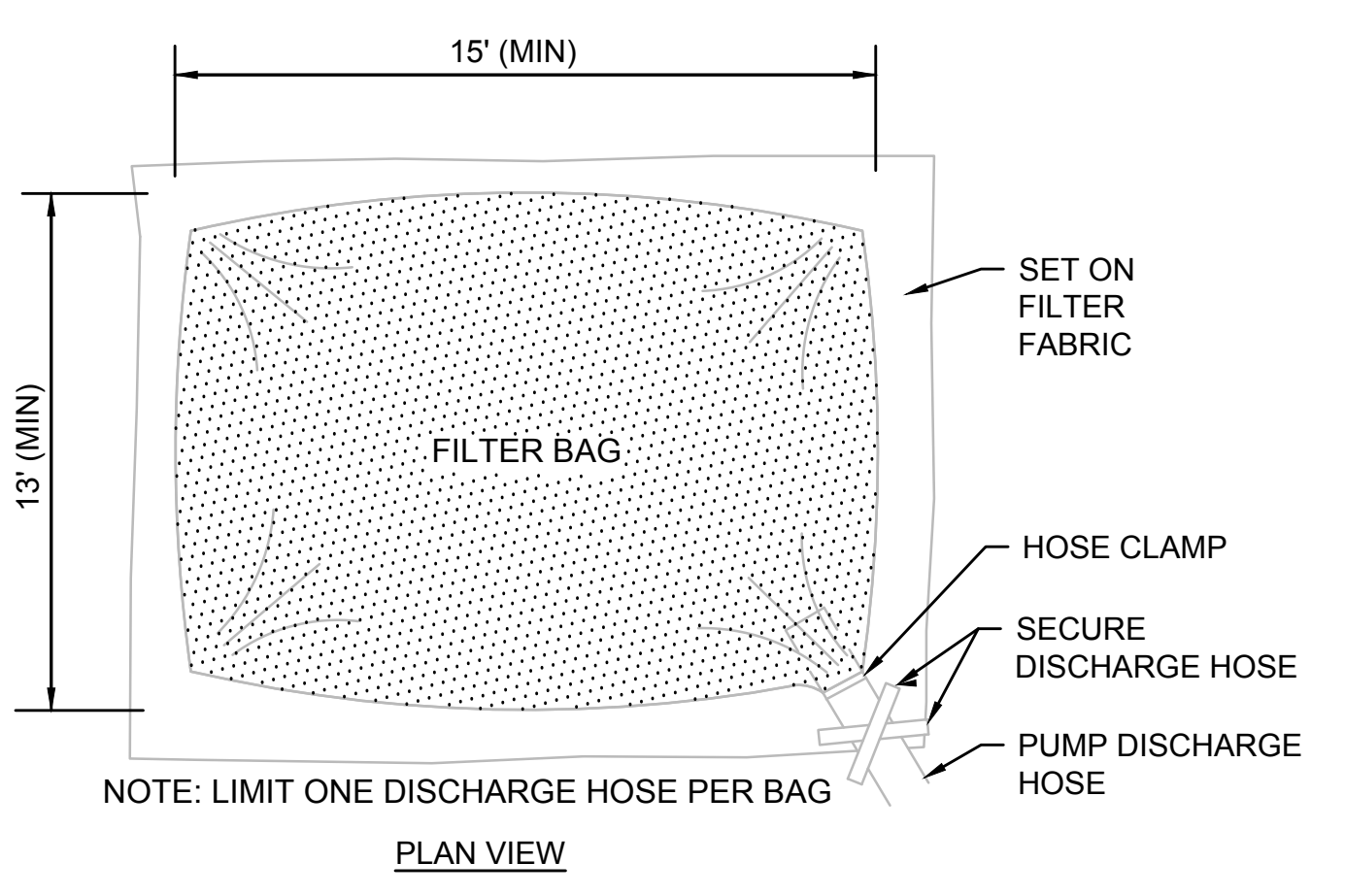
DEWATERING STRAW BALE BASIN
SCALE: N.T.S.

STONE FOR PIPE ENDS
SCALE: N.T.S.



RIPRAP STONE

| DESIGN OPTION | W (FT) | X (FT) | Y (FT) | STONE DIA. (D ₅₀) (IN) |
|---------------|--------|--------|--------|------------------------------------|
| STRUCTURE 10 | 3 | 4 | 5 | 6.5 |
| SWALE | 7 | 6 | 8 | 6.5 |

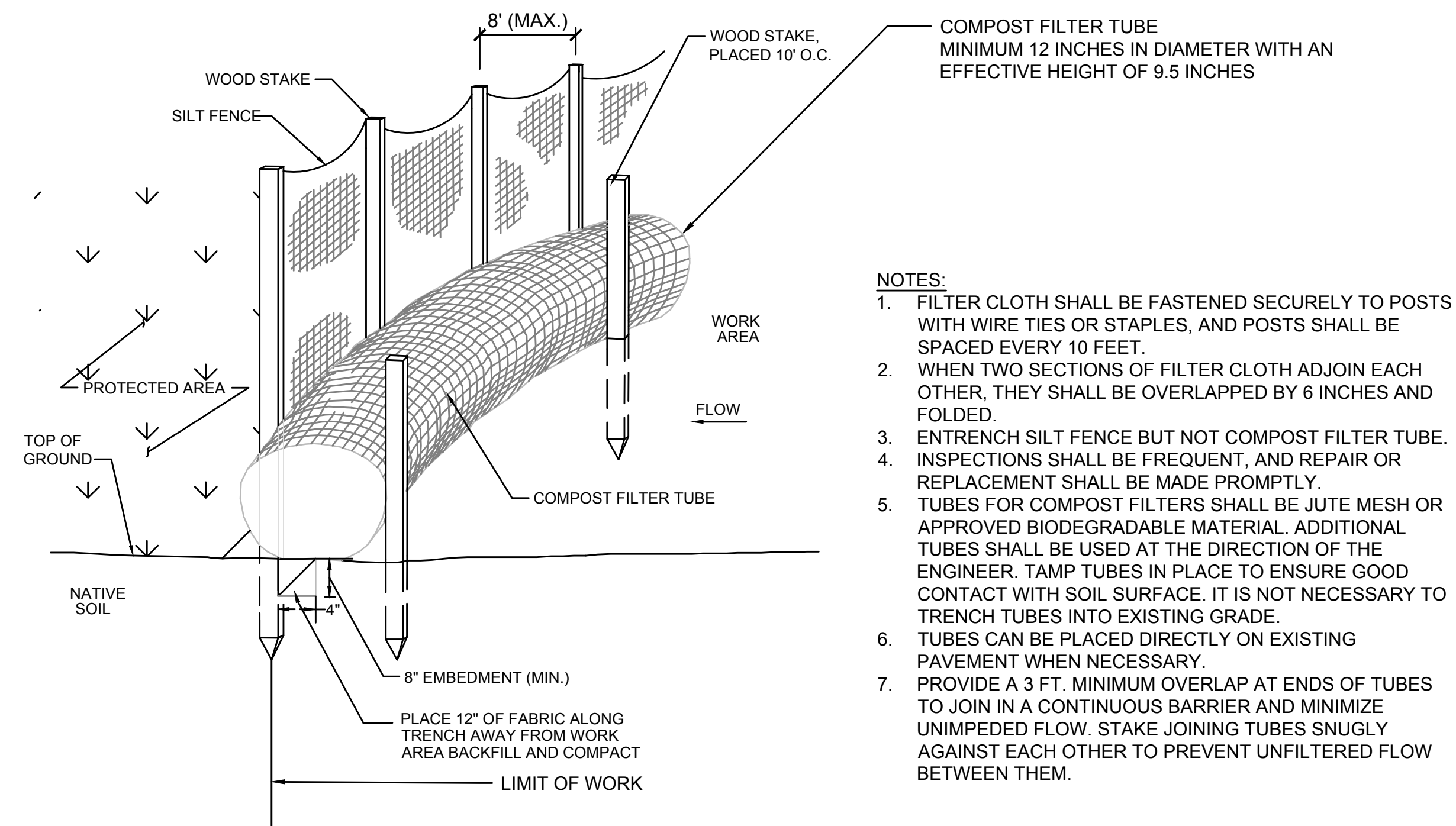


- NOTE:**
1. BAG TO BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

DEWATERING FILTER BAG
SCALE: N.T.S.

STONE PROTECTION AT SWALE/FLARED END (STRUCTURE NUMBER 10)
SCALE: N.T.S.

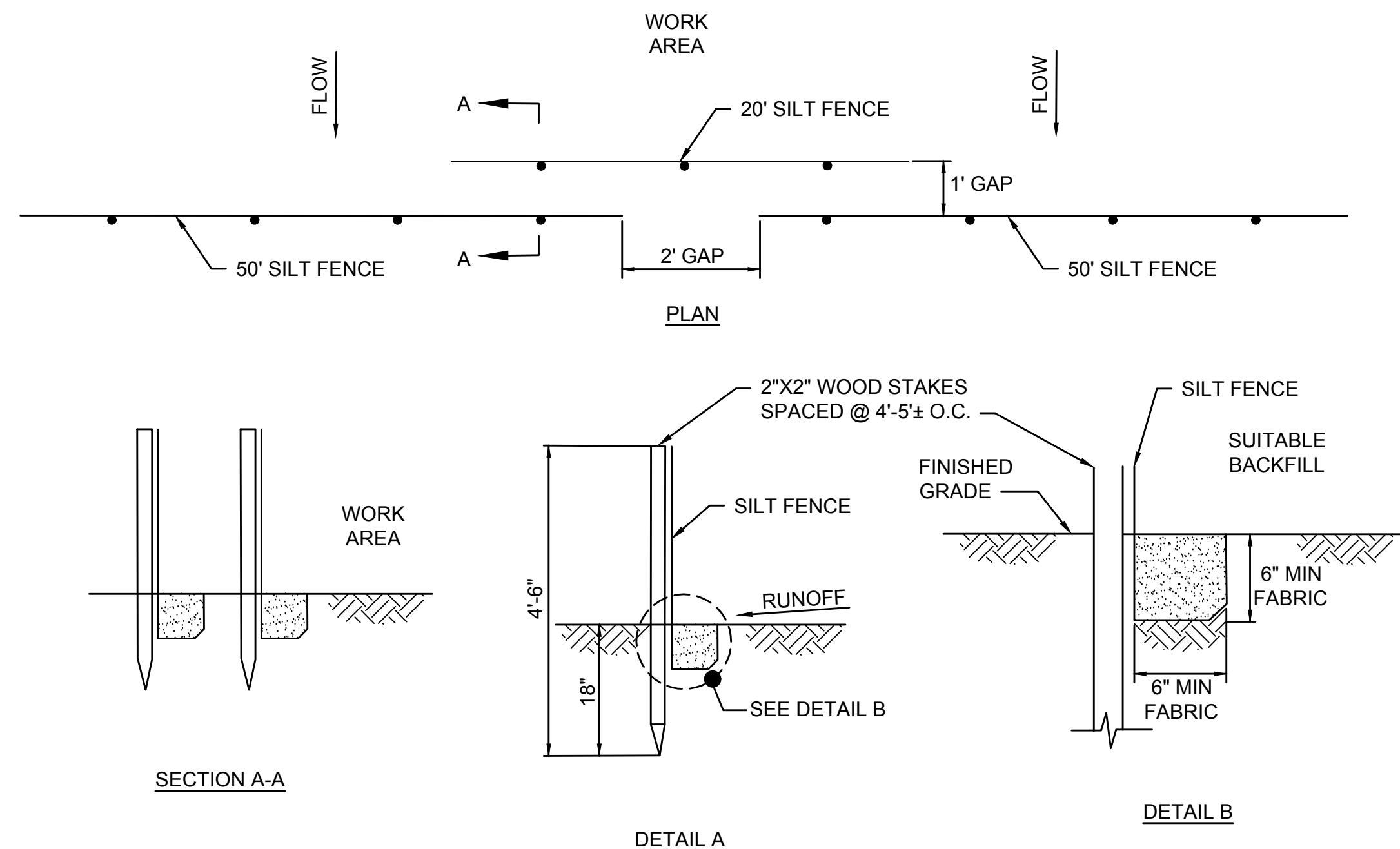
| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION DETAILS | | | | |
| PLAN 153 OF 348 | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |



- NOTES:**
1. FILTER CLOTH SHALL BE FASTENED SECURELY TO POSTS WITH WIRE TIES OR STAPLES, AND POSTS SHALL BE SPACED EVERY 10 FEET.
 2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED.
 3. ENTRENCH SILT FENCE BUT NOT COMPOST FILTER TUBE. INSPECTIONS SHALL BE FREQUENT, AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY.
 4. TUBES FOR COMPOST FILTERS SHALL BE JUTE MESH OR APPROVED BIODEGRADABLE MATERIAL. ADDITIONAL TUBES SHALL BE USED AT THE DIRECTION OF THE ENGINEER. TAMP TUBES IN PLACE TO ENSURE GOOD CONTACT WITH SOIL SURFACE. IT IS NOT NECESSARY TO TRENCH TUBES INTO EXISTING GRADE.
 5. TUBES CAN BE PLACED DIRECTLY ON EXISTING PAVEMENT WHEN NECESSARY.
 6. PROVIDE A 3 FT. MINIMUM OVERLAP AT ENDS OF TUBES TO JOIN IN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW. STAKE JOINING TUBES SNUGLY AGAINST EACH OTHER TO PREVENT UNFILTERED FLOW BETWEEN THEM.

COMPOST FILTER TUBE AND SILT FENCE DETAIL - TYPE A EROSION CONTROL BARRIER

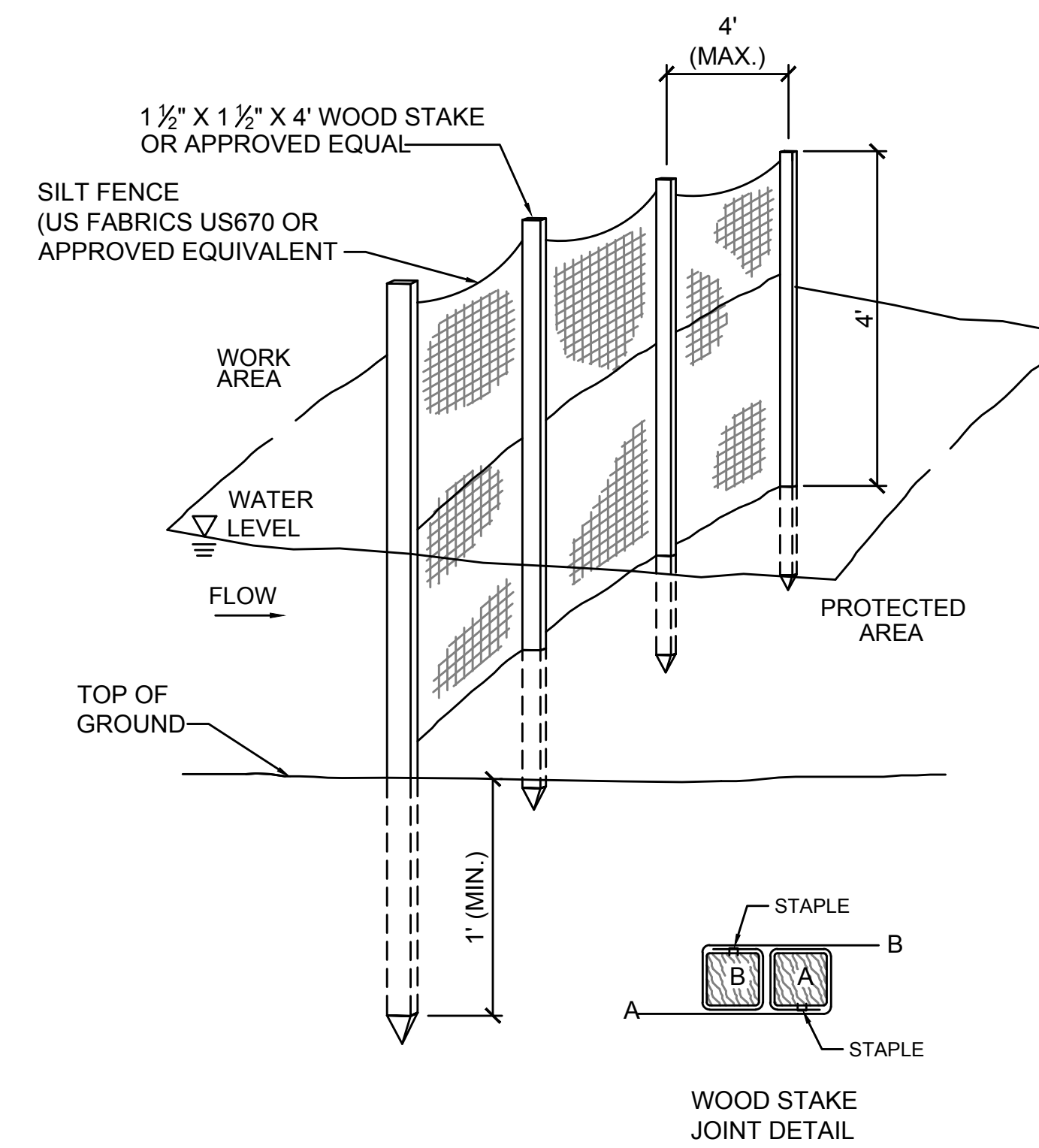
SCALE: N.T.S.



- NOTES:**
1. SYNCOPATED SILT FENCE SHALL BE USED WITHIN ALL PRIORITY HABITAT AREAS AND WITHIN 450' OF VERNAL POOLS.
 2. INSTALL GAP AFTER EVERY 50' OF EROSION CONTROL BARRIER.

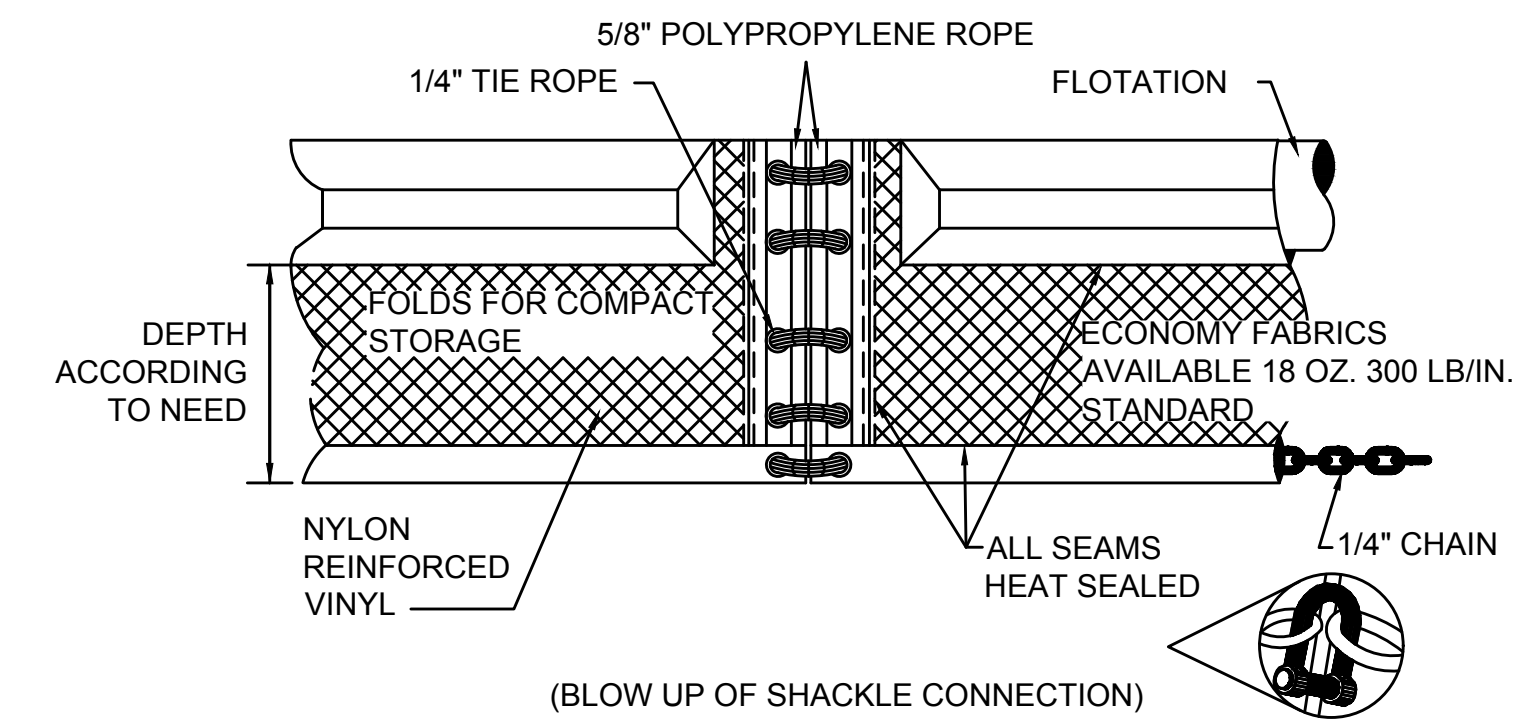
SYNCOPATED SILT FENCE DETAIL - TYPE B EROSION CONTROL BARRIER

SCALE: N.T.S.



4' HIGH SILT FENCE BARRIER DETAIL - EROSION CONTROL BARRIER TYPE C (OPTION 1)

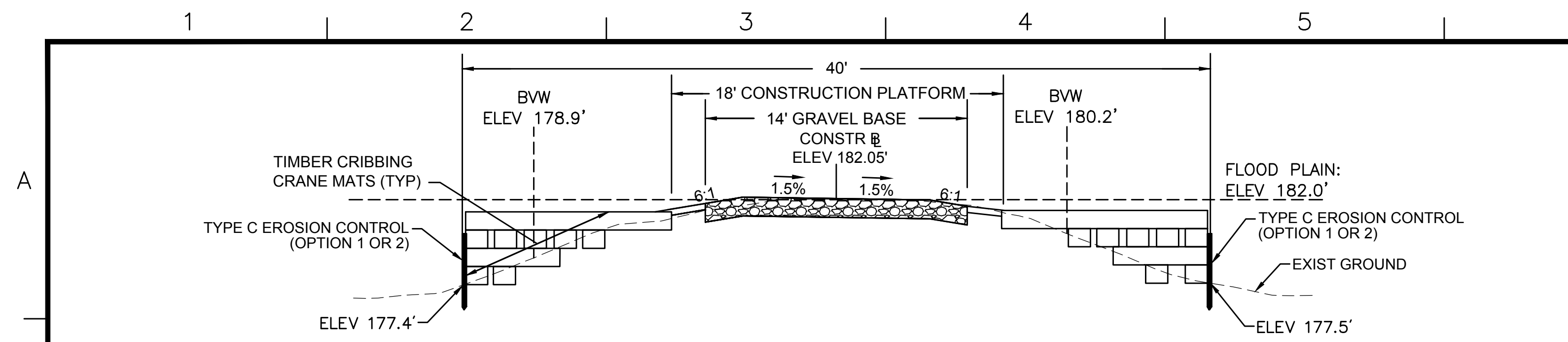
SCALE: N.T.S.



TURBIDITY CURTAIN DETAIL - EROSION CONTROL BARRIER TYPE C (OPTION 2)

SCALE: N.T.S.

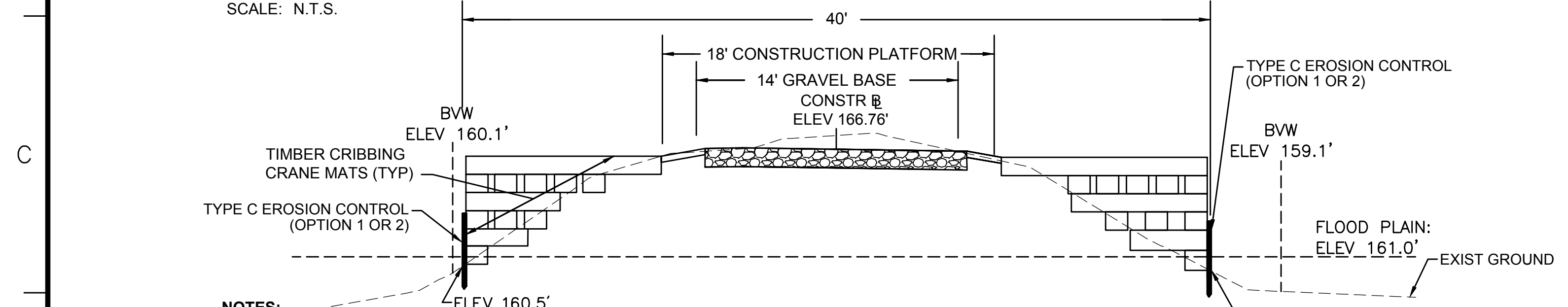
| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION DETAILS | | | | |
| PLAN 154 OF 348 | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |



- NOTES:**
1. ACTUAL CONFIGURATION OF CRANE MATS TO BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR'S TEMPORARY WORK LIMIT SHALL NOT EXTEND MORE THAN 20 FEET FROM THE CENTERLINE OF CONSTRUCTION TO THE OUTERMOST LIMIT ON EACH SIDE WHERE CRANE MATTING IS PERMITTED.
 2. AREA DISTURBED BY CRANE MATS OUTSIDE THE LIMITS OF THE 18' CONSTRUCTION PLATFORM TO BE RESTORED. SEE CRANE MAT RESTORATION DETAILS ON SHEET 130.
 3. GEOTEXTILE FABRIC TO BE INSTALLED UNDERNEATH AND WRAPPED AROUND CRANE MATS. GEOTEXTILE FABRIC MUST OVERLAP AT THE EDGES AND BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.
 4. THE CROSS-SECTION FOR STATION 148+00 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

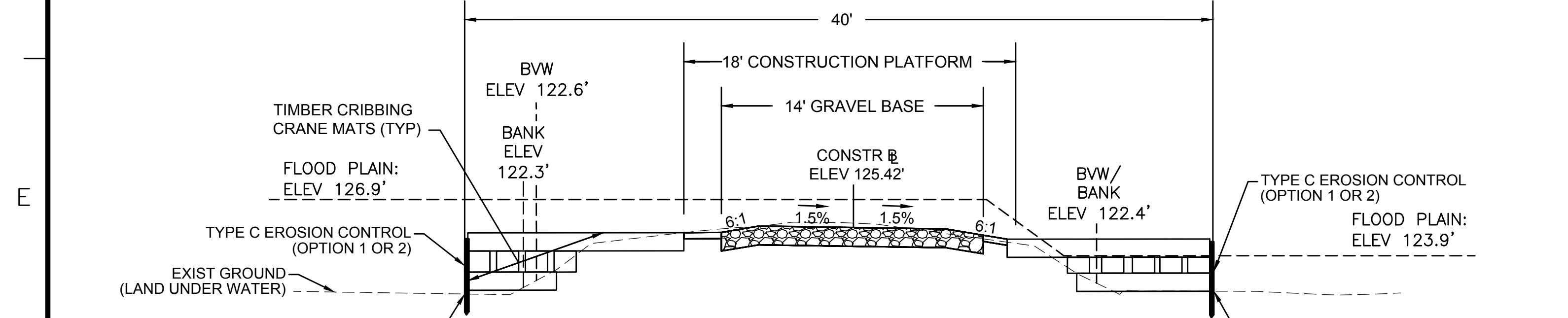
TYPICAL CRANE MAT CROSS-SECTION WITHOUT STEEL SHEETING - BRIDGE 130

SCALE: N.T.S.



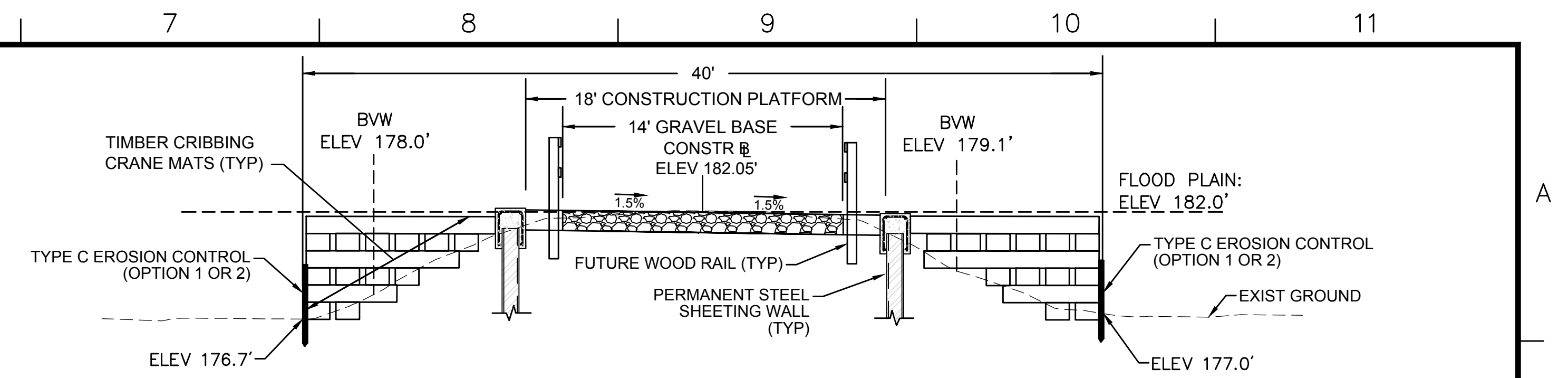
- NOTES:**
1. ACTUAL CONFIGURATION OF CRANE MATS TO BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR'S TEMPORARY WORK LIMIT SHALL NOT EXTEND MORE THAN 20 FEET FROM THE CENTERLINE OF CONSTRUCTION TO THE OUTERMOST LIMIT ON EACH SIDE WHERE CRANE MATTING IS PERMITTED.
 2. AREA DISTURBED BY CRANE MATS OUTSIDE THE LIMITS OF THE 18' CONSTRUCTION PLATFORM TO BE RESTORED. SEE CRANE MAT RESTORATION DETAILS ON SHEET 130.
 3. GEOTEXTILE FABRIC TO BE INSTALLED UNDERNEATH AND WRAPPED AROUND CRANE MATS. GEOTEXTILE FABRIC MUST OVERLAP AT THE EDGES AND BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.
 4. THE CROSS-SECTION FOR STATION 401+50 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

TYPICAL CRANE MAT CROSS-SECTION WITHOUT STEEL SHEETING - BRIDGE 128



- NOTES:**
1. ACTUAL CONFIGURATION OF CRANE MATS TO BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR'S TEMPORARY WORK LIMIT SHALL NOT EXTEND MORE THAN 20 FEET FROM THE CENTERLINE OF CONSTRUCTION TO THE OUTERMOST LIMIT ON EACH SIDE WHERE CRANE MATTING IS PERMITTED.
 2. AREA DISTURBED BY CRANE MATS OUTSIDE THE LIMITS OF THE 18' CONSTRUCTION PLATFORM TO BE RESTORED. SEE CRANE MAT RESTORATION DETAILS ON SHEET 130.
 3. GEOTEXTILE FABRIC TO BE INSTALLED UNDERNEATH AND WRAPPED AROUND CRANE MATS. GEOTEXTILE FABRIC MUST OVERLAP AT THE EDGES AND BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.
 4. THE CROSS-SECTION FOR STATION 726+00 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

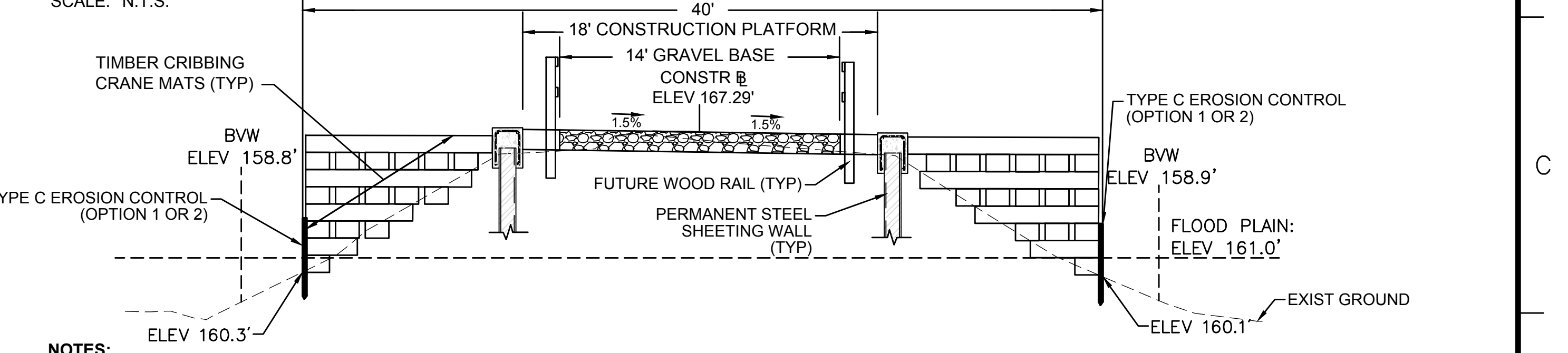
TYPICAL CRANE MAT CROSS-SECTION WITHOUT STEEL SHEETING - BRIDGE 127



- NOTES:**
1. ACTUAL CONFIGURATION OF CRANE MATS TO BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR'S TEMPORARY WORK LIMIT SHALL NOT EXTEND MORE THAN 20 FEET FROM THE CENTERLINE OF CONSTRUCTION TO THE OUTERMOST LIMIT ON EACH SIDE WHERE CRANE MATTING IS PERMITTED.
 2. AREA DISTURBED BY CRANE MATS OUTSIDE THE LIMITS OF THE 18' CONSTRUCTION PLATFORM TO BE RESTORED. SEE CRANE MAT RESTORATION DETAILS ON SHEET 130.
 3. GEOTEXTILE FABRIC TO BE INSTALLED UNDERNEATH AND WRAPPED AROUND CRANE MATS. GEOTEXTILE FABRIC MUST OVERLAP AT THE EDGES AND BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.
 4. THE CROSS-SECTION FOR STATION 148+25 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

TYPICAL CRANE MAT CROSS-SECTION WITH STEEL SHEETING - BRIDGE 130

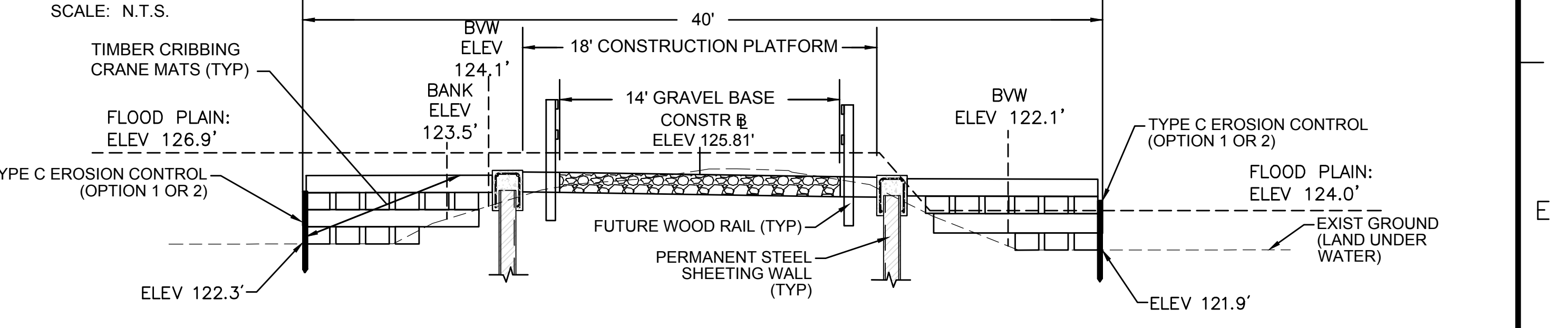
SCALE: N.T.S.



- NOTES:**
1. ACTUAL CONFIGURATION OF CRANE MATS TO BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR'S TEMPORARY WORK LIMIT SHALL NOT EXTEND MORE THAN 20 FEET FROM THE CENTERLINE OF CONSTRUCTION TO THE OUTERMOST LIMIT ON EACH SIDE WHERE CRANE MATTING IS PERMITTED.
 2. AREA DISTURBED BY CRANE MATS OUTSIDE THE LIMITS OF THE 18' CONSTRUCTION PLATFORM TO BE RESTORED. SEE CRANE MAT RESTORATION DETAILS ON SHEET 130.
 3. GEOTEXTILE FABRIC TO BE INSTALLED UNDERNEATH AND WRAPPED AROUND CRANE MATS. GEOTEXTILE FABRIC MUST OVERLAP AT THE EDGES AND BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.
 4. THE CROSS-SECTION FOR STATION 401+00 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

TYPICAL CRANE MAT CROSS-SECTION WITH STEEL SHEETING - BRIDGE 128

SCALE: N.T.S.



- NOTES:**
1. ACTUAL CONFIGURATION OF CRANE MATS TO BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR'S TEMPORARY WORK LIMIT SHALL NOT EXTEND MORE THAN 20 FEET FROM THE CENTERLINE OF CONSTRUCTION TO THE OUTERMOST LIMIT ON EACH SIDE WHERE CRANE MATTING IS PERMITTED.
 2. AREA DISTURBED BY CRANE MATS OUTSIDE THE LIMITS OF THE 18' CONSTRUCTION PLATFORM TO BE RESTORED. SEE CRANE MAT RESTORATION DETAILS ON SHEET 130.
 3. GEOTEXTILE FABRIC TO BE INSTALLED UNDERNEATH AND WRAPPED AROUND CRANE MATS. GEOTEXTILE FABRIC MUST OVERLAP AT THE EDGES AND BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.
 4. THE CROSS-SECTION FOR STATION 724+90 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

TYPICAL CRANE MAT CROSS-SECTION WITH STEEL SHEETING - BRIDGE 127

SCALE: N.T.S.

| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION DETAILS | | | | |
| PLAN 155 OF 348 | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

1 2 3 4 5 6 7 8 9 10 11

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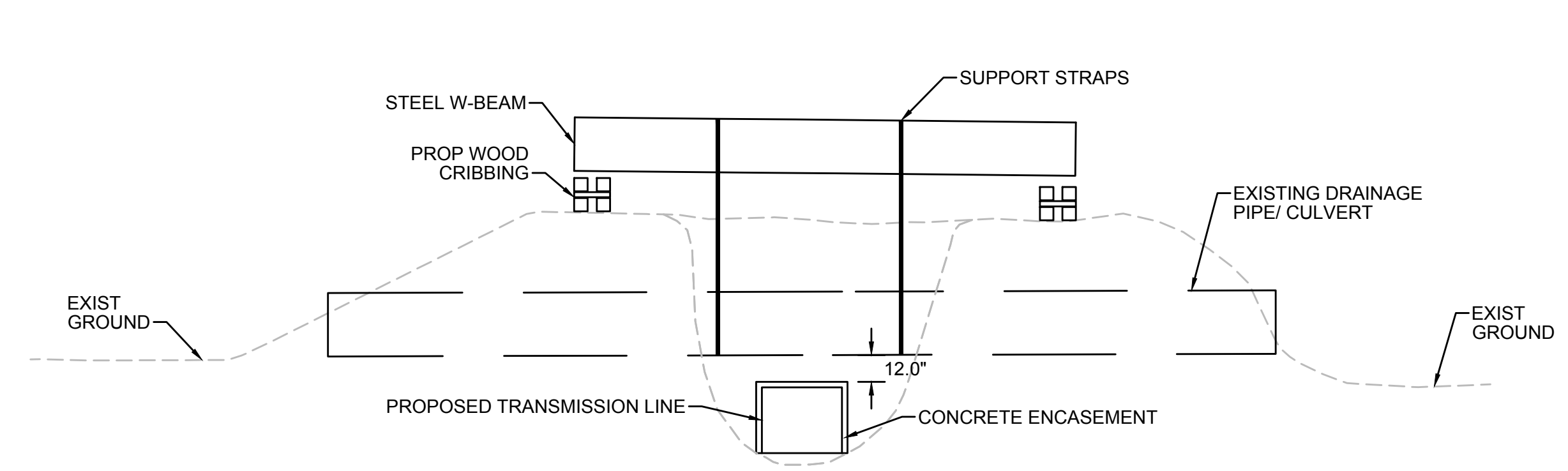
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B

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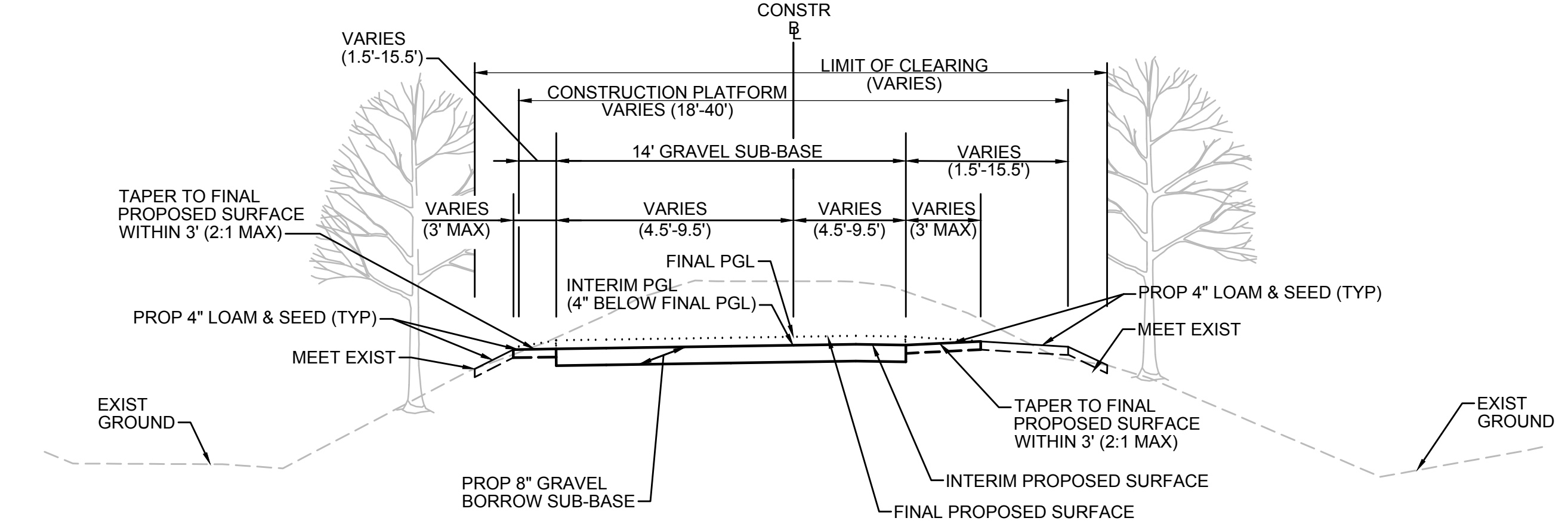


NOTES:

1. CONTRACTOR TO EXCAVATE GROUND SURROUNDING EXISTING PIPE SUCH THAT NO DAMAGE TO THE PIPE IS INCURRED.
2. EXISTING PIPE TO BE STABILIZED IN PLACE DURING CONSTRUCTION USING A STRAP SUPPORTED BY AN W-BEAM.
3. TRANSMISSION LINE TO BE INSTALLED UNDER EXISTING PIPE WITH A MINIMUM CLEARANCE OF 12".
4. AFTER INSTALLATION OF THE TRANSMISSION LINE IS COMPLETE, CONTRACTOR TO FILL IN THE EXCAVATED AREA WITH ORDINARY BORROW OR EXCAVATED MATERIAL AND CONSTRUCT ACCESS ROAD AS SHOWN ON THE PLANS AND CROSS-SECTIONS.

METHOD OF PIPE SUPPORT DURING CONSTRUCTION

SCALE: N.T.S.



NOTES:

1. THIS INTERIM TYPICAL SECTION SHOWS THE TAPERING TO BE PERFORMED TO CONNECT THE GRAVEL ACCESS ROAD BEING CONSTRUCTED BY EVERSOURCE TO THE FINAL PROPOSED SURFACE FOR THE DCR MASS CENTRAL RAIL TRAIL.
2. AT ALL ROADWAY CROSSINGS AND VEHICLE ACCESS POINTS, THE CONTRACTOR SHALL TAPER FROM 8" UP TO 12" OF GRAVEL BORROW SUB-BASE OVER A LENGTH OF 50' SUCH THAT THE INTERIM PGL MATCHES THE FINAL PGL.

INTERIM TYPICAL SECTION

SCALE: N.T.S.

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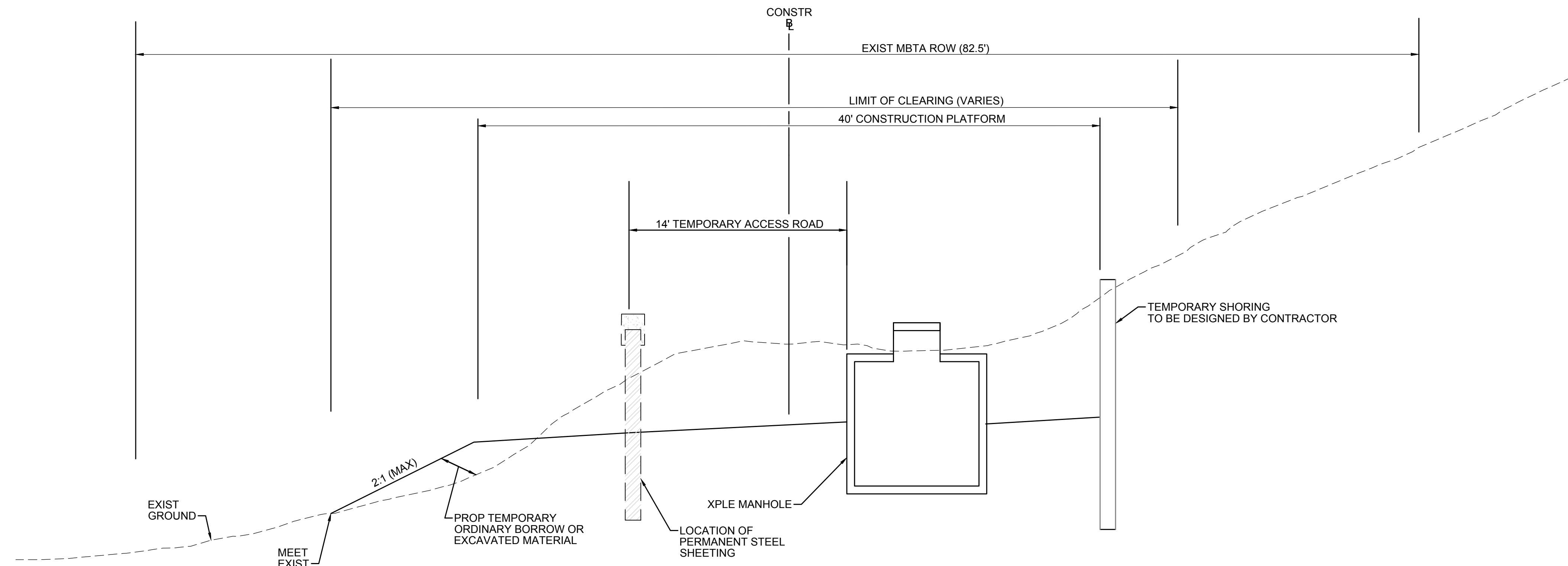
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NOTES:

1. THE LONGITUDINAL GRADIENT OF THE TEMPORARY ACCESS ROAD SHALL BE NO GREATER THAN 6%.
2. ALL TEMPORARY GRADING ACTIVITIES SHALL STAY WITHIN LIMITS OF GRADING SHOWN ON THE PLANS.
3. AFTER CONSTRUCTION OF THE TRANSMISSION LINE AND ACCESS ROAD IS COMPLETED, CONTRACTOR TO STOCKPILE ANY REMAINING TEMPORARY FILL MATERIAL AND REGRADE TO MATCH EXISTING CONDITIONS OUTSIDE OF THE PERMANENT LIMITS OF GRADING SHOWN ON THE PLANS AND CROSS-SECTIONS.
4. CONTRACTOR TO STABILIZE ANY EXPOSED SLOPES WITH JUTE MESH FABRIC UNTIL SUCH TIME THAT THEY CAN BE RESTORED.

TEMPORARY GRADING AT STA 120+75 TO STA 121+25

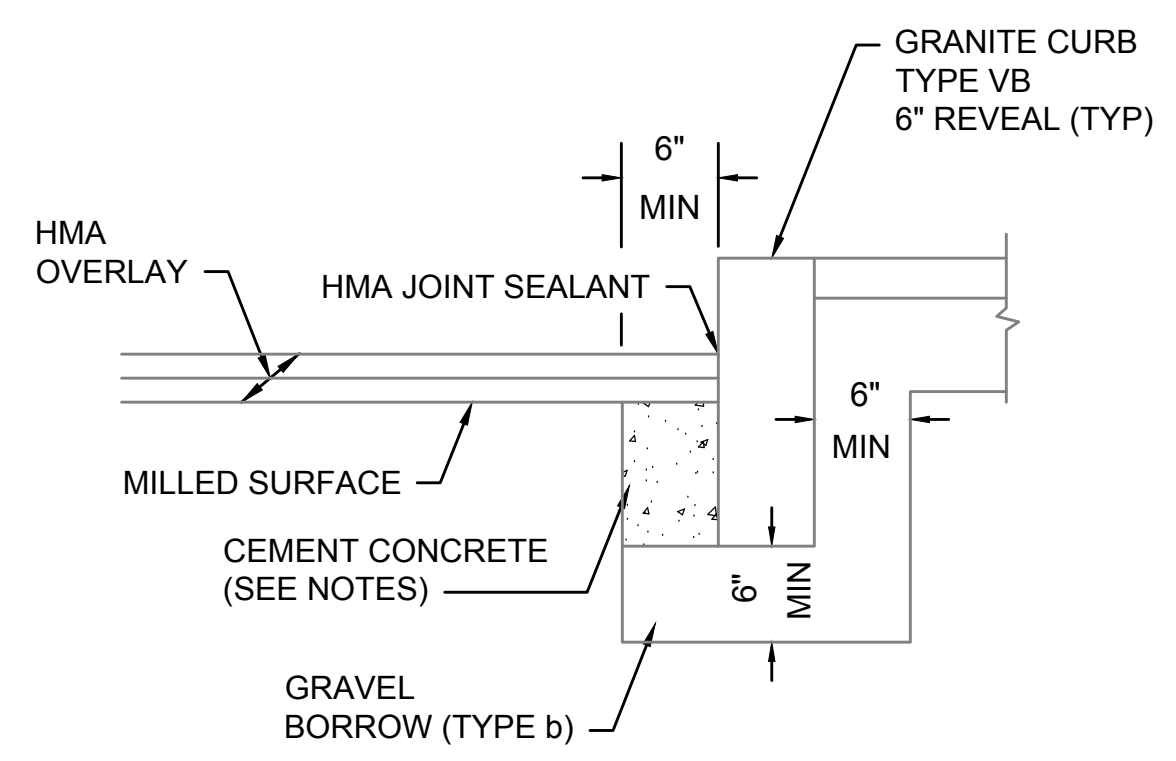
SCALE: N.T.S.

| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION DETAILS | | | | |
| PLAN 157 OF 348 | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

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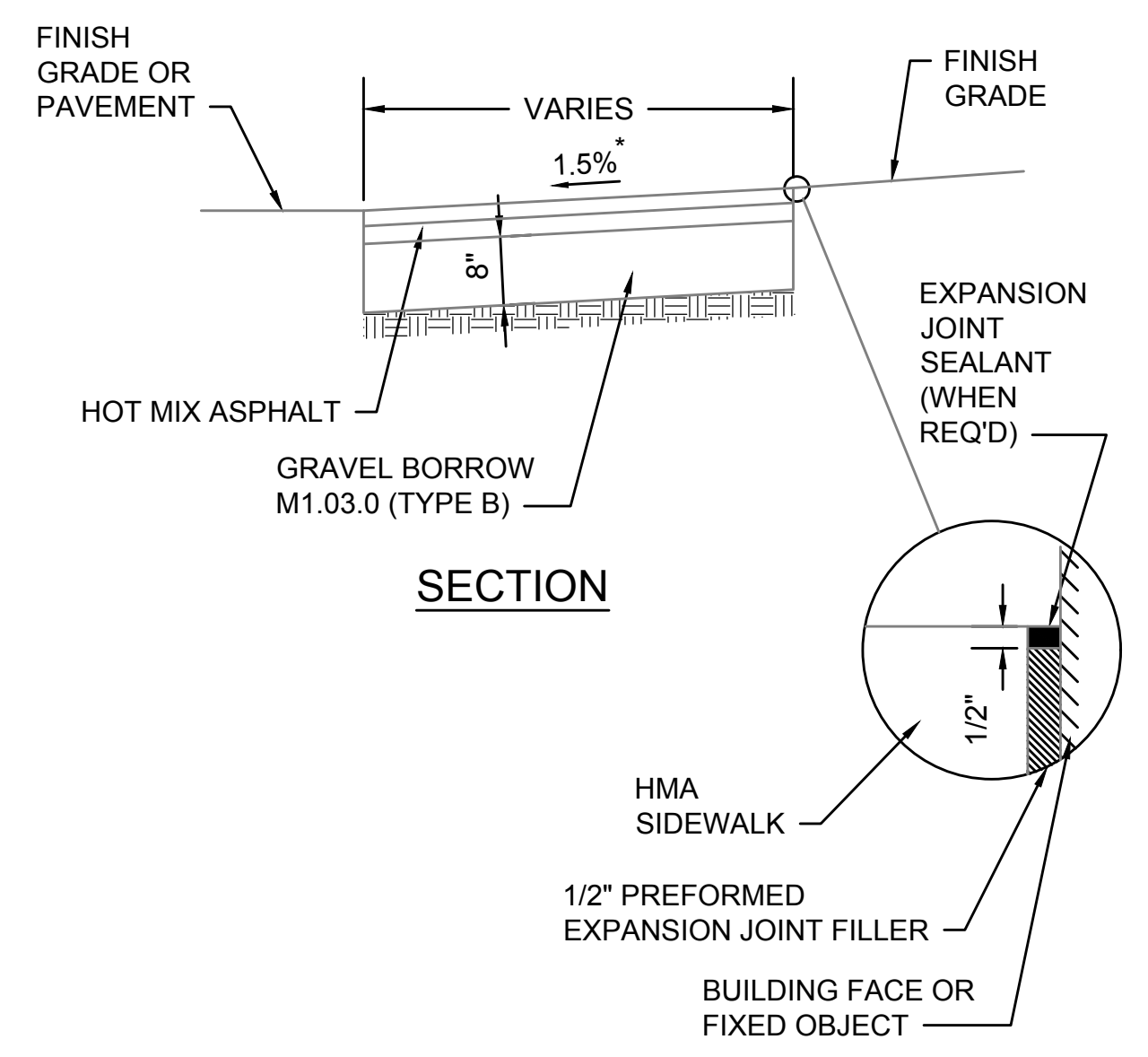
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- NOTES:**
1. CONCRETE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB.
 2. ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE USED. ALL TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT BE USED AS A SUBSTITUTE.

GRANITE CURB IN MILL & OVERLAY

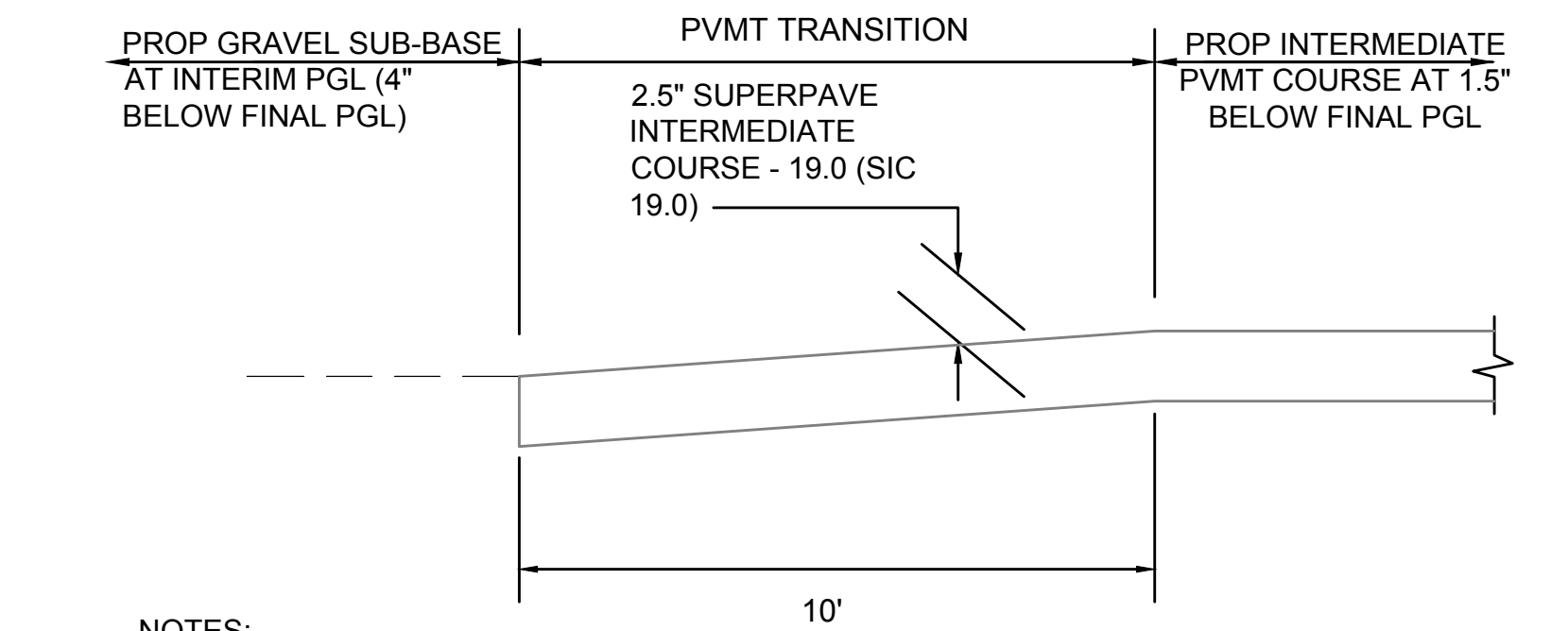
SCALE: N.T.S.



* TOLERANCE FOR CONSTRUCTION ±0.5%

HOT MIX ASPHALT SIDEWALK

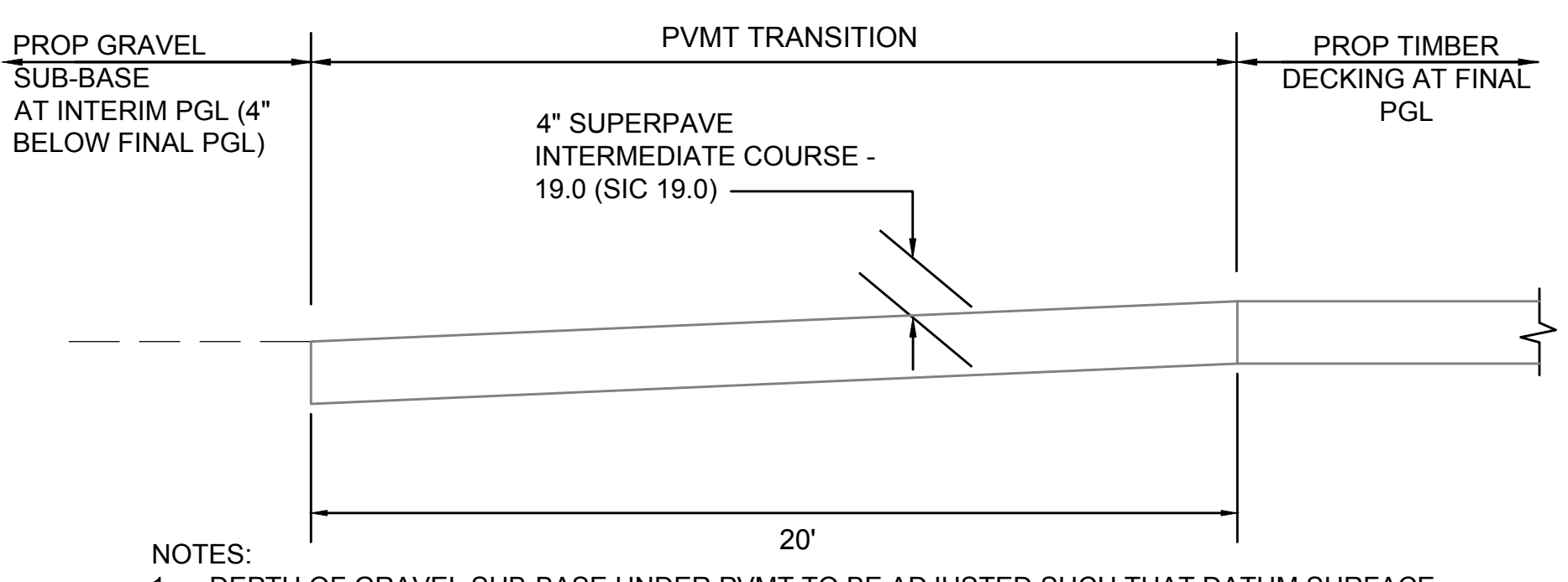
SCALE: N.T.S. DWG: WALK-01 DATE: MARCH 2013



- NOTES:**
1. DEPTH OF GRAVEL SUB-BASE UNDER PVMT TO BE ADJUSTED SUCH THAT DATUM SURFACE REMAINS AT 12" BELOW FINAL PGL THROUGH PVMT TRANSITION.

LONGITUDINAL SECTION OF PVMT TRANSITION AT CATTLE CROSSING

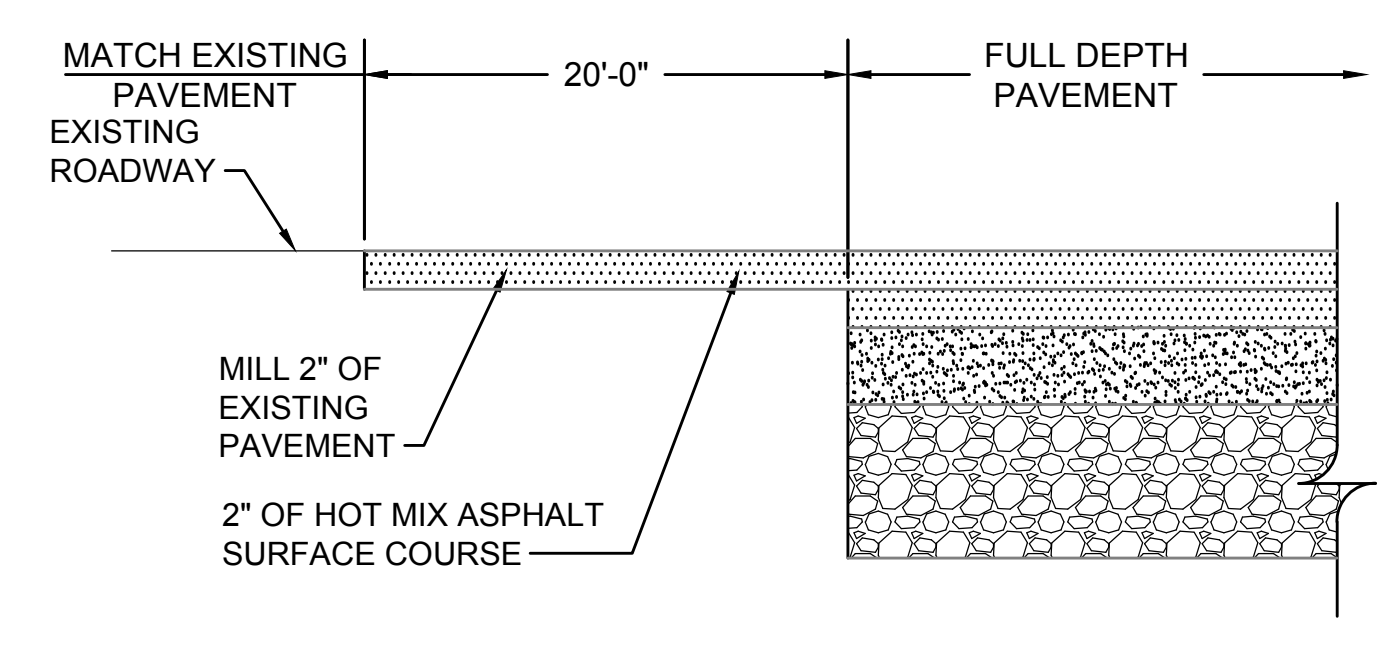
SCALE: N.T.S.



- NOTES:**
1. DEPTH OF GRAVEL SUB-BASE UNDER PVMT TO BE ADJUSTED SUCH THAT DATUM SURFACE REMAINS AT 12" BELOW FINAL PGL THROUGH PVMT TRANSITION.

LONGITUDINAL SECTION OF PVMT TRANSITION AT BRIDGES

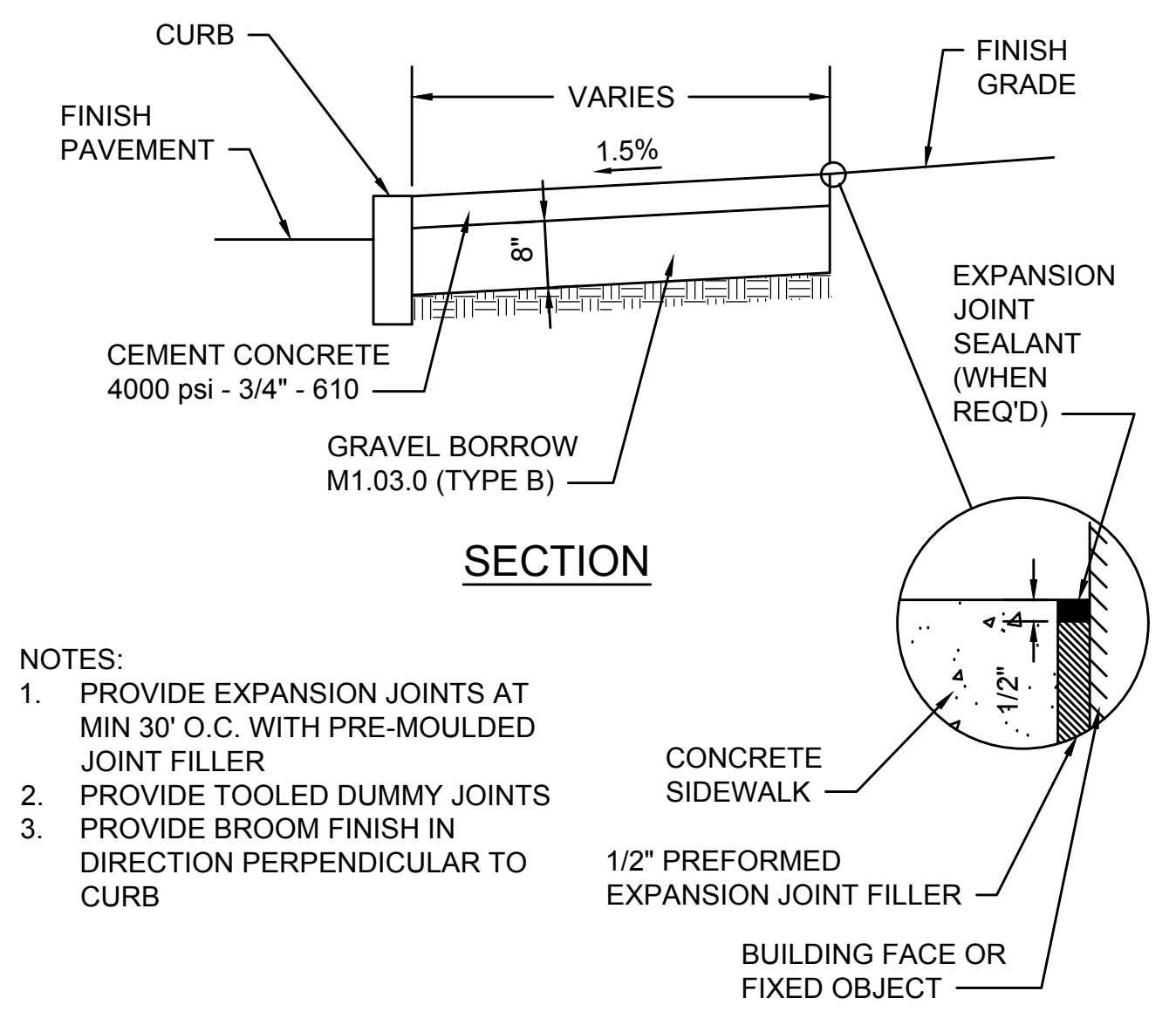
SCALE: N.T.S.



LONGITUDINAL SECTION

FULL DEPTH PAVEMENT TRANSITION

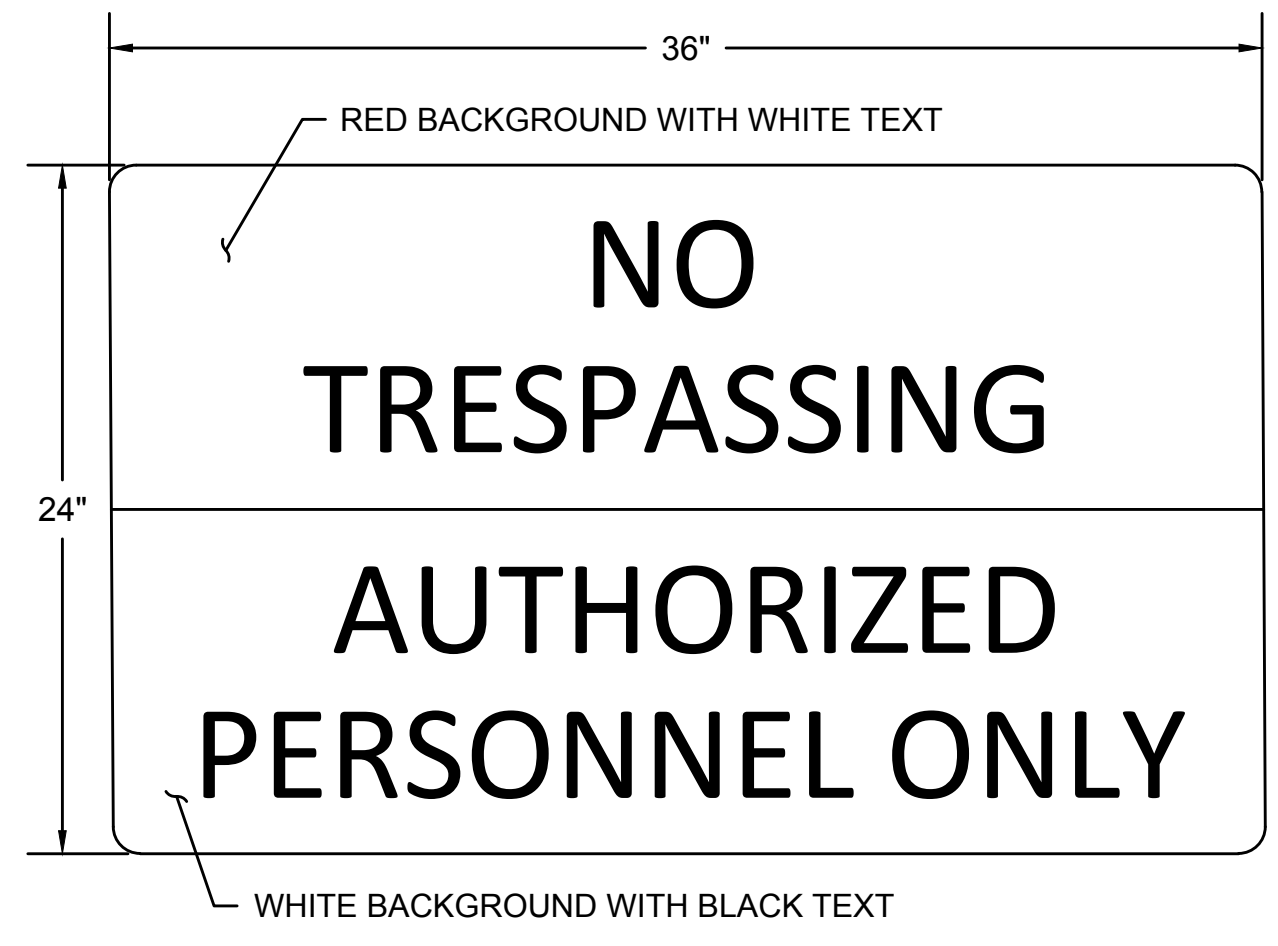
SCALE: N.T.S.



- NOTES:**
1. PROVIDE EXPANSION JOINTS AT MIN 30' O.C. WITH PRE-MOULDED JOINT FILLER
 2. PROVIDE TOOLED DUMMY JOINTS
 3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB

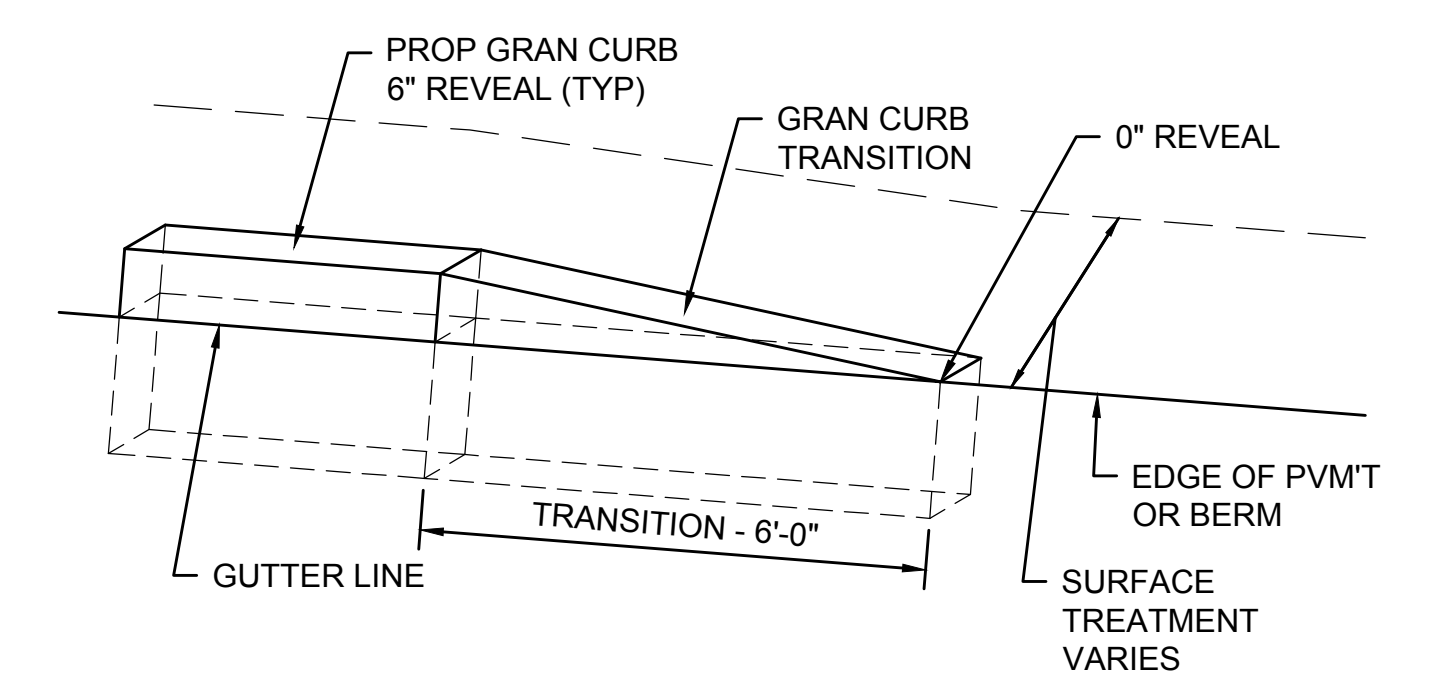
CEMENT CONCRETE SIDEWALK

SCALE: N.T.S.



- NO BORDER
- MATERIAL - FLAT SHEET ALUMINUM 0.08" INCHES THICK
- SIGN SHALL BE MOUNTED ON P5 POST AT ALL WORK ZONE ACCESS POINTS AND ON CONSTRUCTION FENCE FACING CONSTRUCTION PLATFORM AS NOTED ON THE PLANS.

NO TRESPASSING SIGN

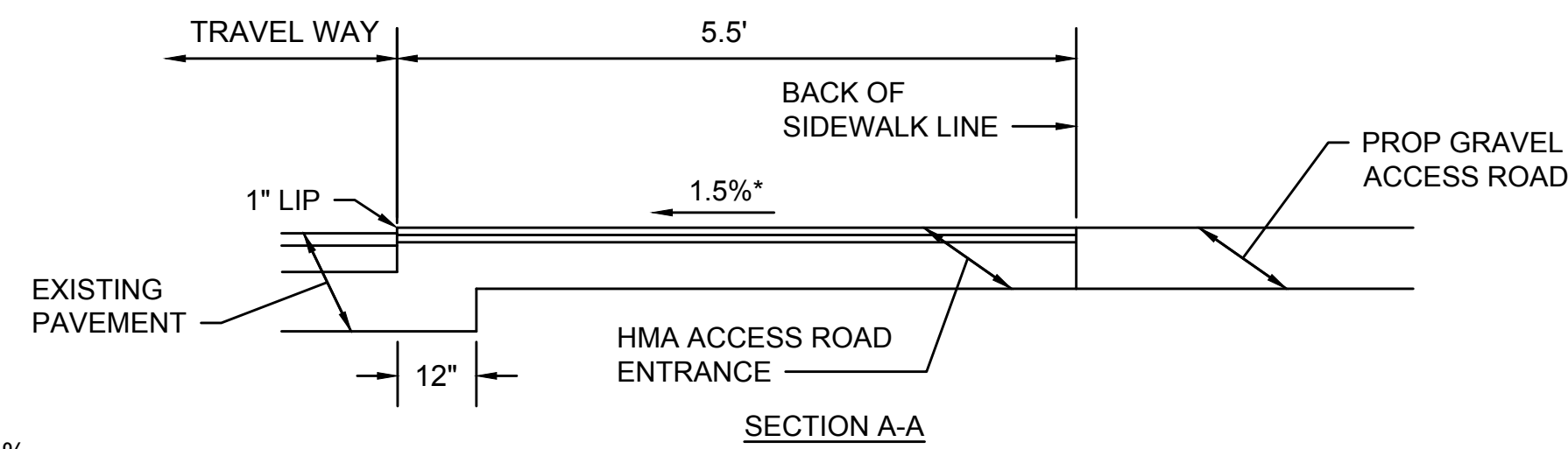
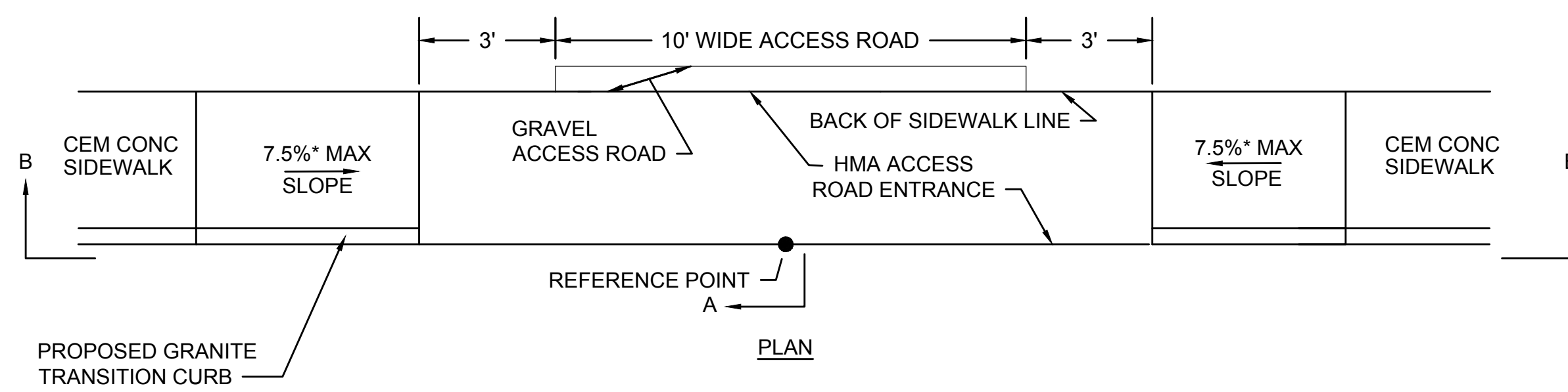
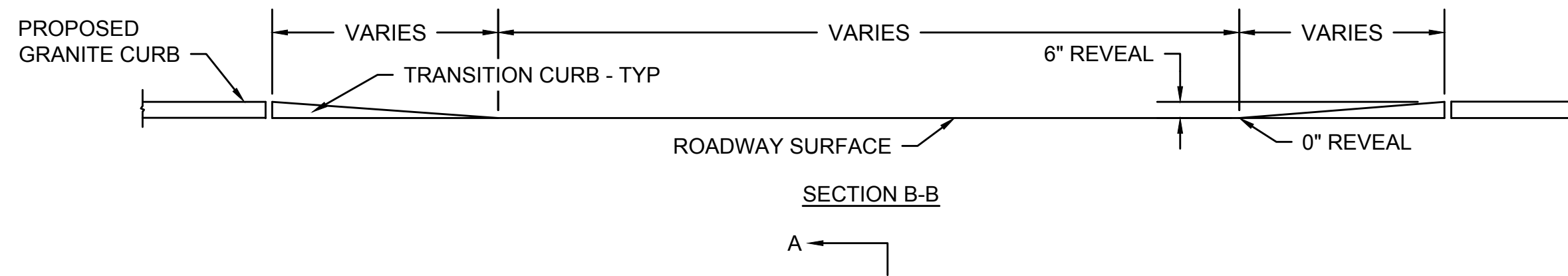


GRANITE CURB TRANSITION PIECE

SCALE: N.T.S.

| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION DETAILS | | | | |
| PLAN 158 OF 348 | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

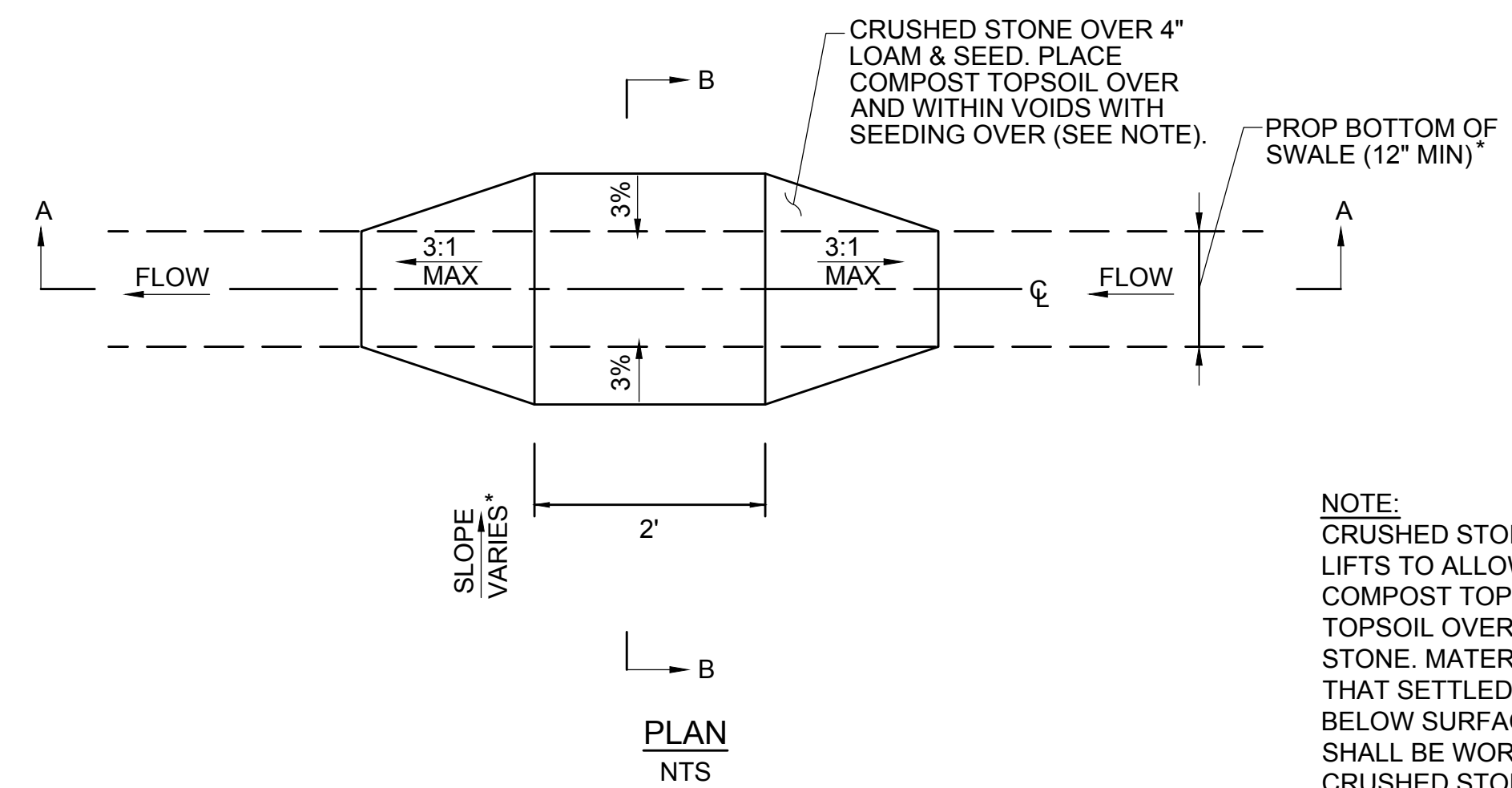
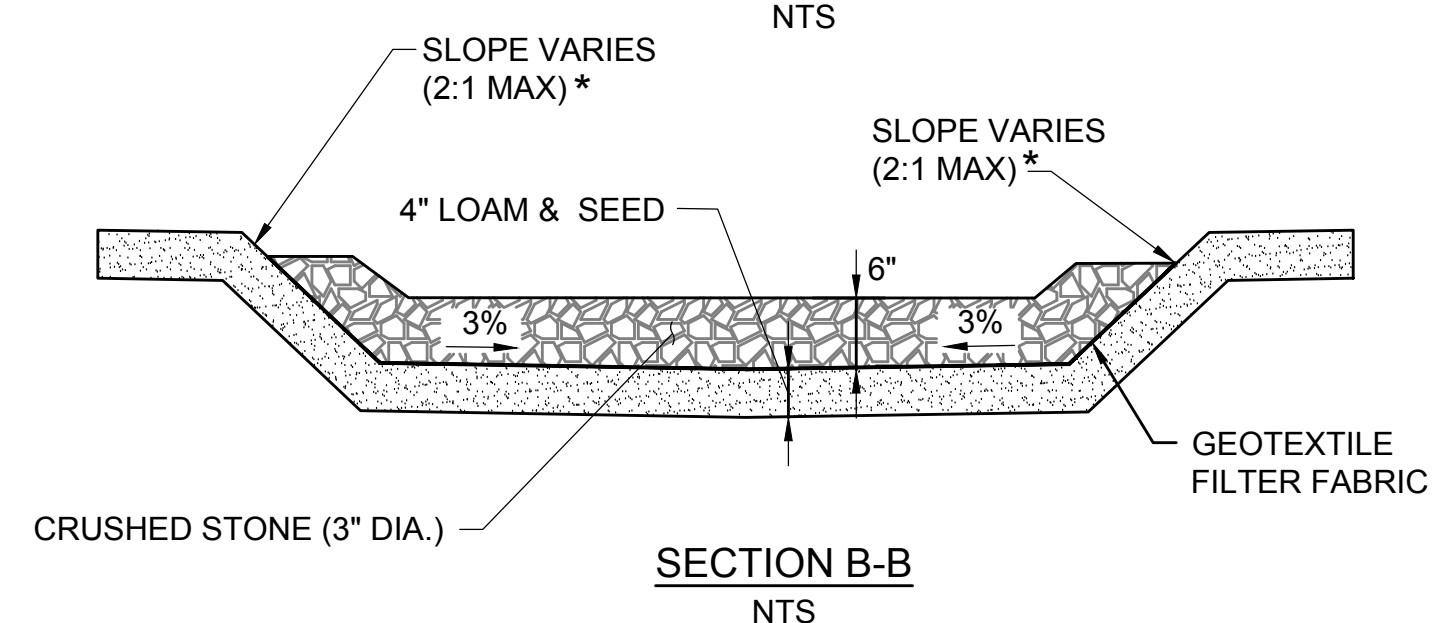
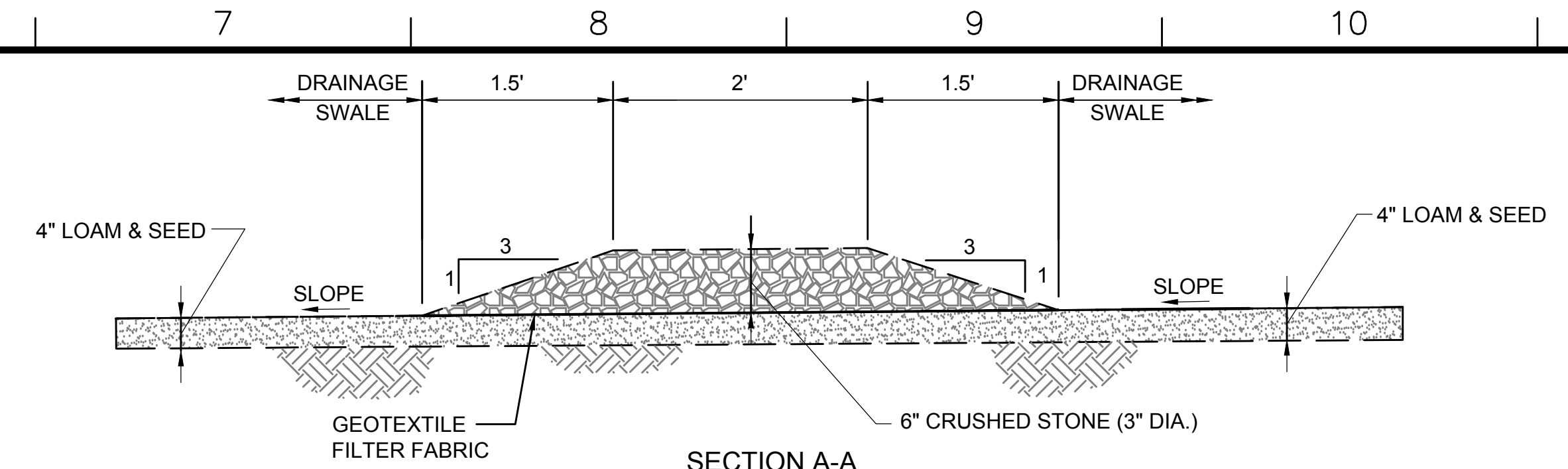
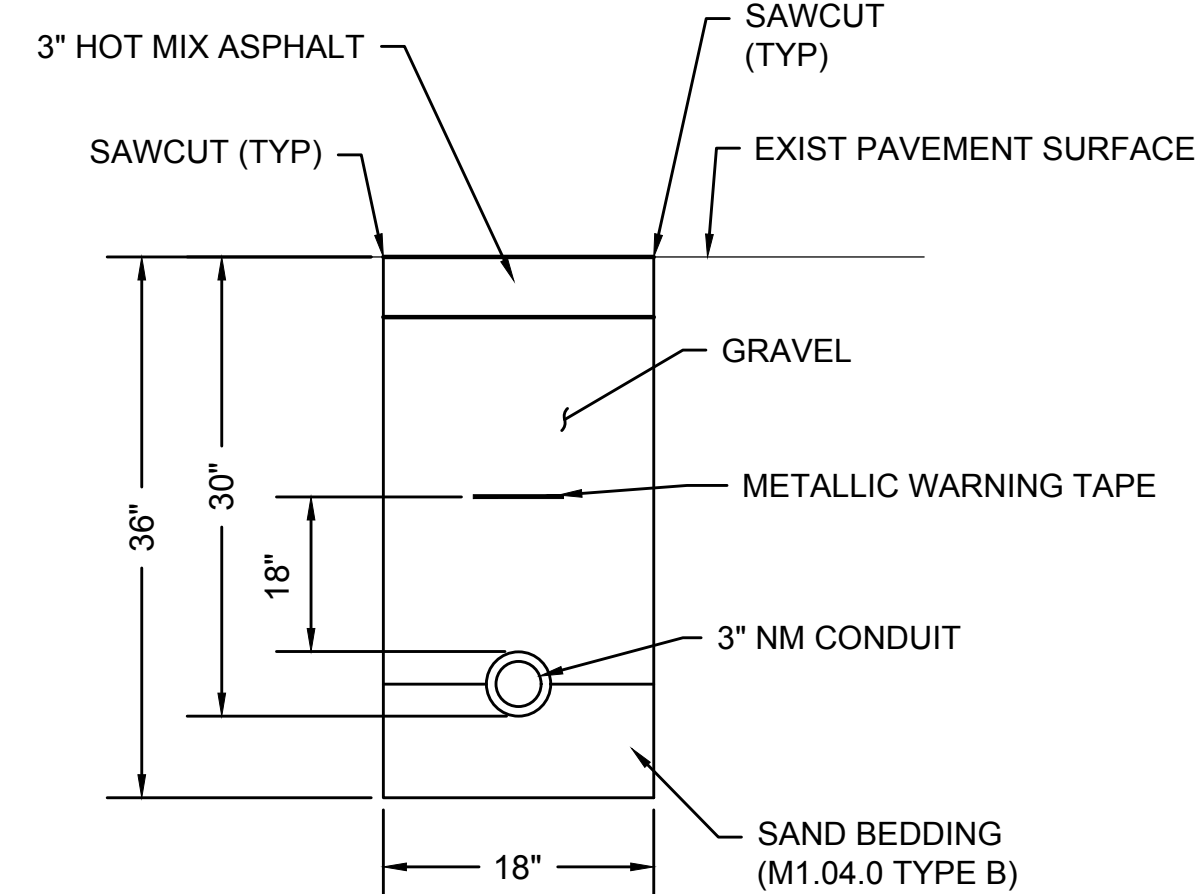
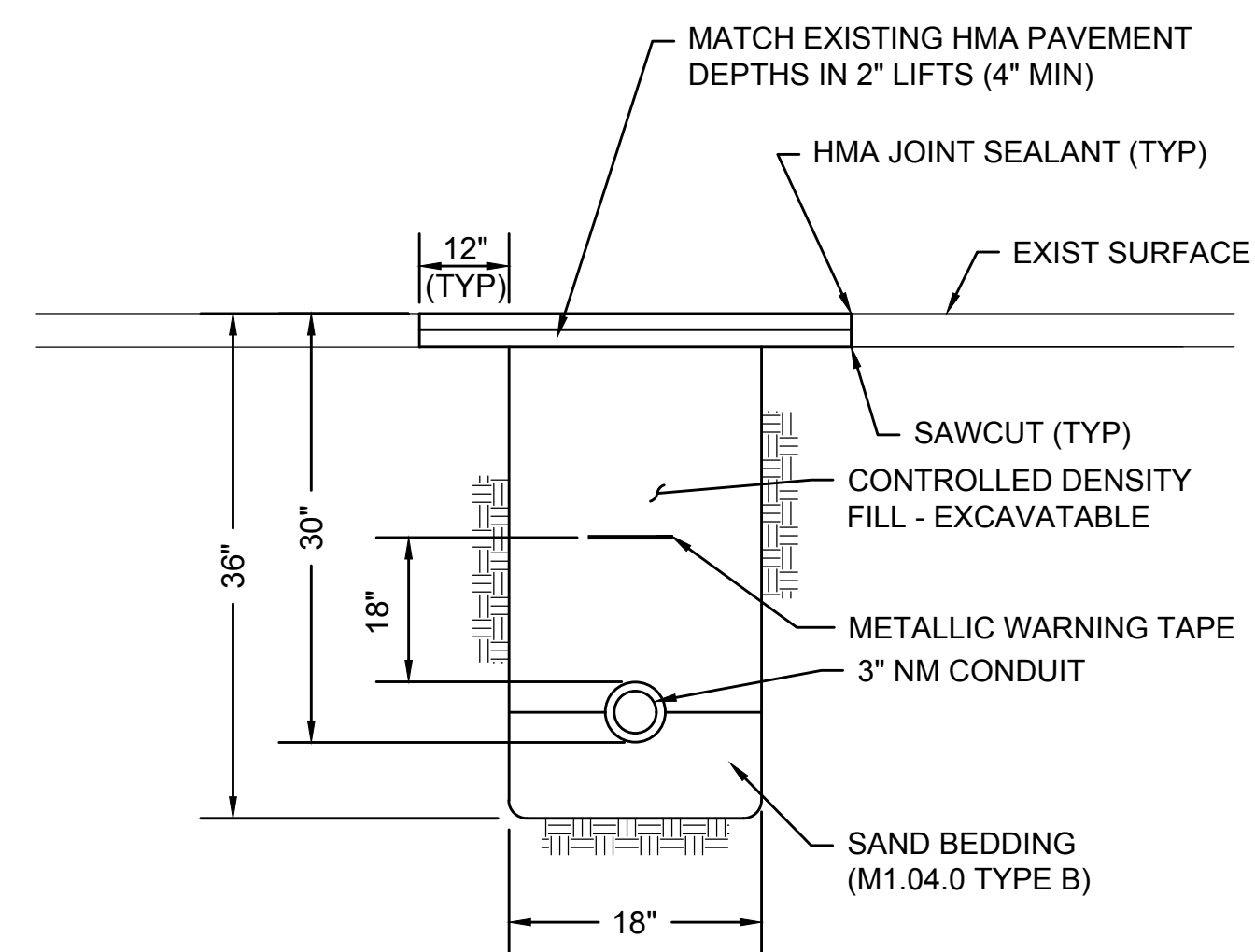
| ACCESS ROAD CROSSING DATA | | | | | | | | | |
|--|----------------------|----------------|----------------|-----------|-------|------------|-------|-------------------|----------|
| NO. | LOCATION (REF POINT) | ROADWAY GUTTER | SIDEWALK WIDTH | LEFT SIDE | | RIGHT SIDE | | OPENING ELEVATION | COMMENTS |
| | | | | REVEAL | TRANS | REVEAL | TRANS | | |
| BOSTON POST ROAD (ROUTE 20) STATE HIGHWAY LAYOUT | | | | | | | | | |
| 1 | 182+61.6, 9.6' LT | 5.2% | 5'-6" | 6" | 9'-0" | 6" | 7'-8" | 134.31' | |



*TOLERANCE FOR CONSTRUCTION ±0.5%

TYPICAL ACCESS ROAD CROSSING WITH SIDEWALK AND WITHOUT CURB RETURNS

SCALE: N.T.S.

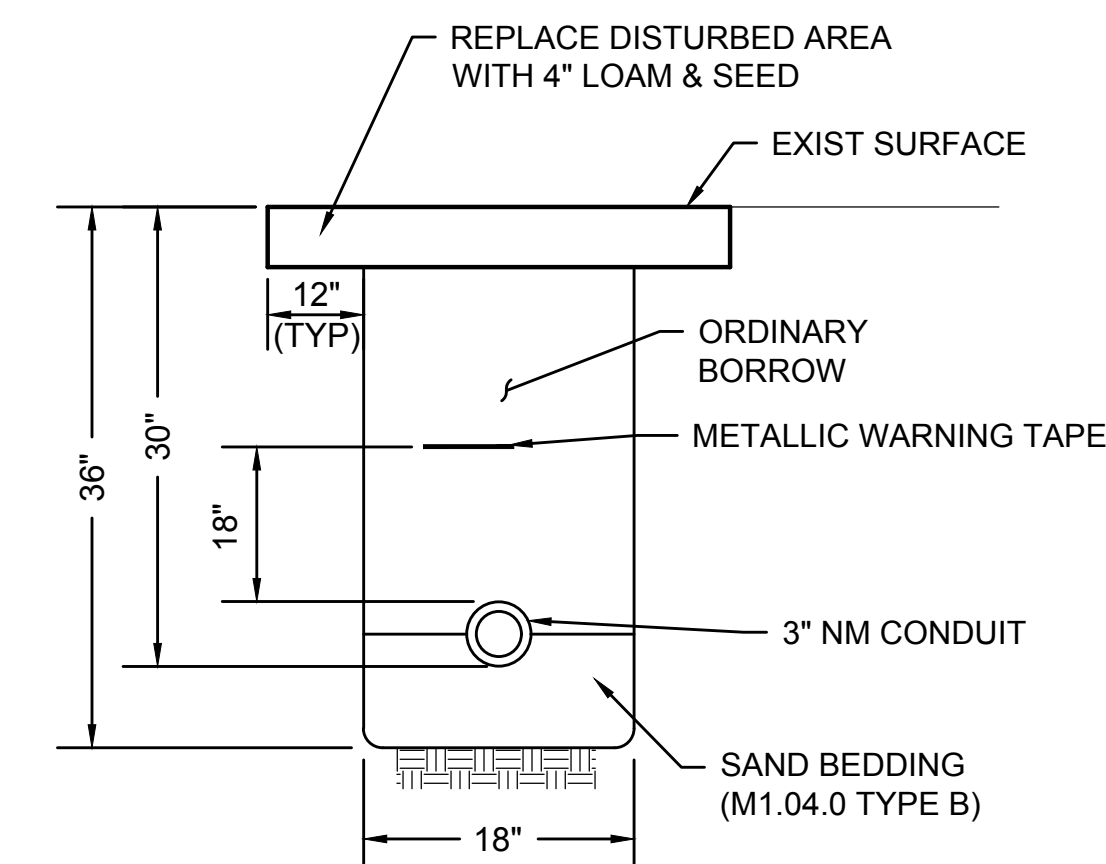


NOTE:
CRUSHED STONE TO BE PLACED IN TWO LIFTS TO ALLOW FOR THE APPLICATION OF COMPOST TOPSOIL. APPLY COMPOST TOPSOIL OVER AND WITHIN THE CRUSHED STONE. MATERIAL SHOULD BE PLACED SUCH THAT SETTLED MATERIAL IS AT OR SLIGHTLY BELOW SURFACE PLANE OF STONE AND SHALL BE WORKED INTO THE VOIDS OF THE CRUSHED STONE. COMPOST TOPSOIL SHALL BE RAKED BY HAND.

SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION

CHECK DAM

SCALE: N.T.S.



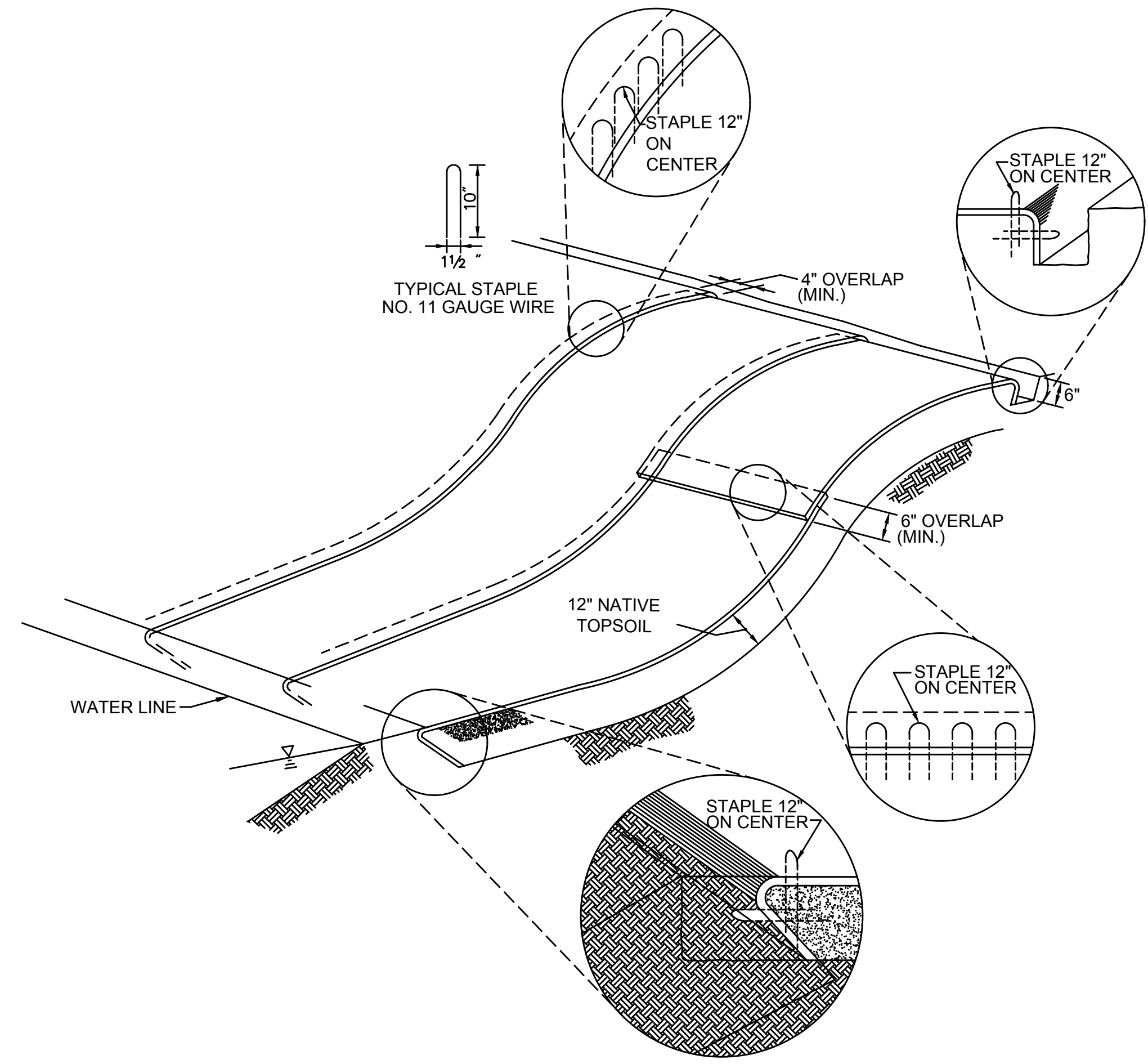
| NO. | DESCRIPTION | BY | DATE | APPR. | |
|---|------------------|-------------|--------------|--------------|---------------------|
| | | | | | REVISION |
| EVERSOURCE | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | |
| CONSTRUCTION DETAILS | | | | | |
| PLAN 159 OF 348 | | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. REV. |

NOTES FOR BIONET C700BN EROSION CONTROL BLANKET:

- METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.

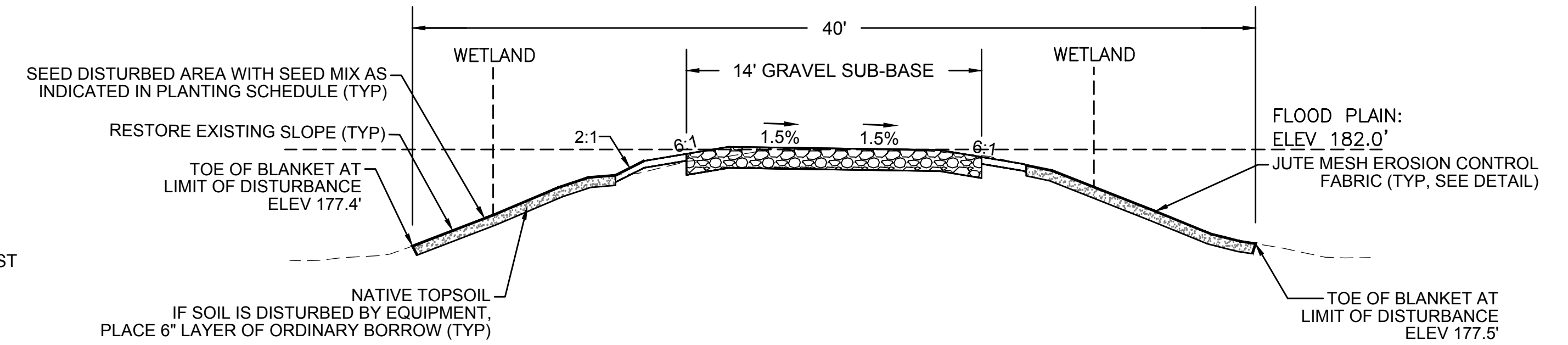
NOTES FOR JUTE MESH EROSION CONTROL FABRIC:

- EROSION CONTROL FABRIC SHALL BE WESTERN EXCELSIOR CC-4 ALL-NATURAL OR SIMILAR. FABRIC MUST BE COMPOSED OF 100% BIODEGRADABLE MATERIAL, WITH NO SYNTHETIC NETTING OR STITCHING. NETTING SHALL BE JUTE, MATRIX FILLING SHALL BE EXCELSIOR, STRAW, OR COCONUT, AND STITCHING SHALL BE BIODEGRADABLE. FABRIC SHOULD BE RATED FOR SLOPES OF AT LEAST 2:1 AND LONGEVITY OF AT LEAST 12 MONTHS.
- PREPARE SOIL BEFORE INSTALLING FABRIC, INCLUDING ANY NECESSARY APPLICATION OF LIME, AND SEED.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE FABRIC IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF FABRIC EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE FABRIC WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF FABRIC BACK OVER SEED AND COMPACTED SOIL. SECURE FABRIC OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE FABRIC.
- ROLL FABRIC FROM TOP OF SLOPE TO BOTTOM. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE.
- INSTALL TREE, SHRUB, AND/OR PLUG PLANTINGS AT THE LOCATIONS INDICATED IN THE PLANTING SCHEDULE ON SHEET 161 OR AS DIRECTED BY THE WETLAND SCIENTIST AFTER UNROLLING FABRIC. LOCATE PLANTINGS AT ROLL SEAMS OR CUT SLIT IN BLANKET PERPENDICULAR TO ACCESS ROAD TO ACCOMMODATE PLANTING. PLANTING HOLES SHOULD BE HAND-DUG.
- SECURE FABRIC AFTER PLANTINGS ARE INSTALLED. ALL FABRIC MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. DO NOT PLACE STAPLES OR STAKES WITHIN 2 FEET OF PLANTINGS. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- PLACE CONSECUTIVE FABRICS END OVER END (SHINGLE STYLE) WITH A 4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE FABRIC.
- FULL LENGTH EDGE OF FABRIC AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ADJACENT FABRICS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (DEPENDING ON FABRIC TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING FABRIC (FABRIC BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE FABRIC BEING OVERLAPPED.
- FULL LENGTH EDGE OF FABRIC AT BOTTOM OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART. FABRIC SHALL HAVE A MINIMUM 6" RUNOUT LENGTH UNDER GEOWEB.
- A MINIMUM OF 4 NOTCHED WOOD STAKES SHALL BE INSTALLED TO SECURE EACH FABRIC, ONE AT EACH CORNER.
- THE TERMINAL END OF THE FABRIC MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.



JUTE MESH EROSION CONTROL FABRIC & BIONET C700BN EROSION CONTROL BLANKET

SCALE: N.T.S.

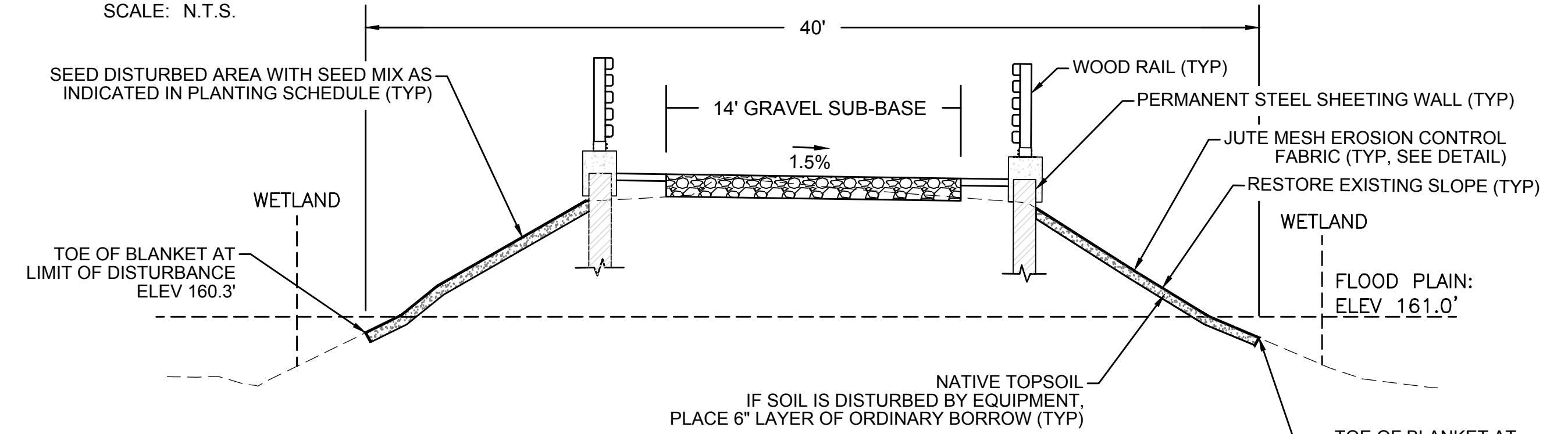


NOTES:

- THIS SECTION APPLIES ONLY TO THE FOLLOWING STATION RANGES:
STA 147+75 TO 148+50
STA 149+00 TO 150+25
- THE CROSS-SECTION FOR STATION 148+00 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

TYPICAL CRANE MAT RESTORATION CROSS-SECTION - BRIDGE 130

SCALE: N.T.S.

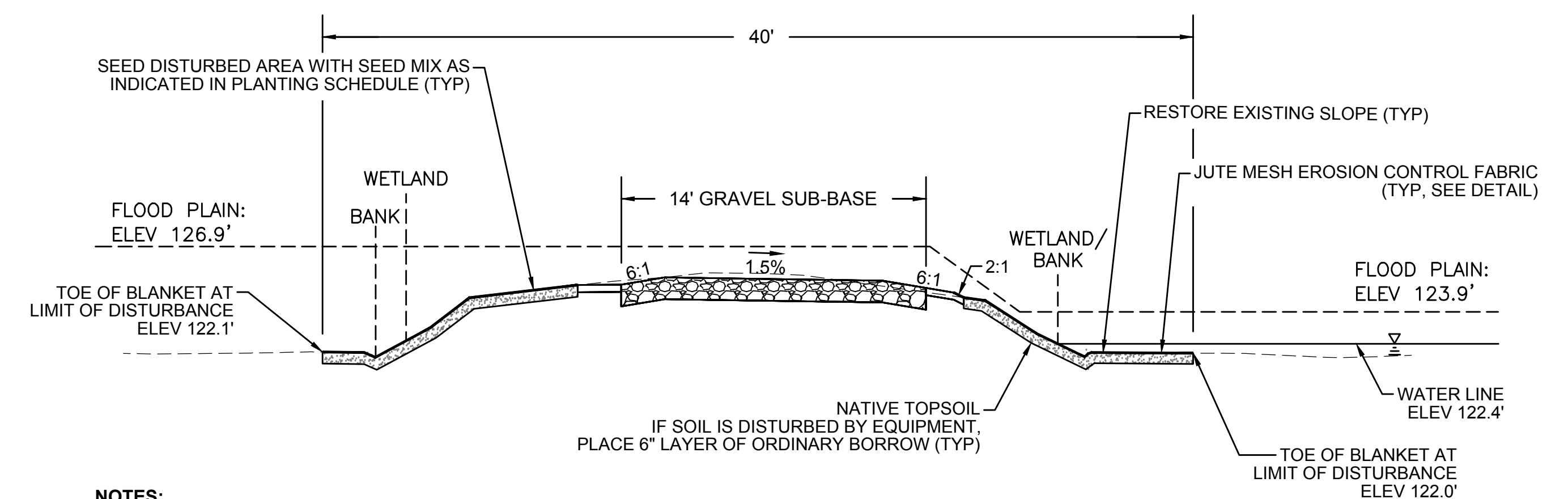


NOTES:

- THIS SECTION APPLIES ONLY TO THE FOLLOWING STATION RANGES:
STA 399+10 TO 400+20
STA 400+75 TO 401+75
- THE CROSS-SECTION FOR STATION 401+00 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

TYPICAL CRANE MAT RESTORATION CROSS-SECTION - BRIDGE 128

SCALE: N.T.S.



NOTES:

- THIS SECTION APPLIES ONLY TO THE FOLLOWING STATION RANGES:
STA 724+40 TO 725+00
STA 725+70 TO 726+40
- THE CROSS-SECTION FOR STATION 726+00 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

TYPICAL CRANE MAT RESTORATION CROSS-SECTION - BRIDGE 127

SCALE: N.T.S.

| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION DETAILS | | | | |
| PLAN 160 OF 348 | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

PLANTING SCHEDULE A: GENERAL CONSTRUCTION CORRIDOR

| HERBACEOUS SEED MIX | | |
|---|----------------|-------|
| SPECIES | WETLAND STATUS | % |
| VIRGINIA WILD RYE (<i>ELYMUS VIRGINICUS</i>) | FACW | 25.00 |
| CANADA WILD RYE (<i>ELYMUS CANADENSIS</i>) | FACU | 25.00 |
| LITTLE BLUESTEM (<i>SCHIZACHYRIUM SCOPARIUM</i>) | FACU | 25.00 |
| DEER-TONGUE GRASS (<i>DICHANTHELIUM CLANDESTINUM</i>) | FACW | 8.00 |
| UPLAND BENTGRASS (<i>AGROSTIS PERENNANS</i>) | FACU | 8.00 |
| FOX SEDGE (<i>CAREX VULPINOIDEA</i>) | OBL | 2.00 |
| PATH RUSH (<i>JUNCUS TENUIS</i>) | FAC | 2.00 |
| SOFT RUSH (<i>JUNCUS EFFUSUS</i>) | OBL | 0.10 |
| BEARD-TONGUE (<i>PENSTEMON DIGITALIS</i>) | FAC | 2.00 |
| NEW ENGLAND ASTER (<i>SYMPHYOTRICHUM NOVAE-ANGLIAE</i>) | FACW | 1.00 |
| WOODLAND GOLDENROD (<i>SOLIDAGO CAESIA</i>) | FACU | 0.50 |
| BLUE WOOD ASTER (<i>SYMPHYOTRICHUM CORDIFOLIUM</i>) | UPL | 0.50 |
| JOE-PYE WEED (<i>EUTROCHIUM MACULATUM</i>) | OBL | 0.30 |
| WHITE AVENS (<i>GEUM CANADENSE</i>) | FAC | 0.30 |
| RIGID GOLDENROD (<i>OLIGONEURON RIGIDUM</i>) | UPL | 0.30 |

| SHRUB SEED MIX | | |
|--|----------------|--------|
| SPECIES | WETLAND STATUS | LBS/AC |
| ALTERNATE-LEAVED DOGWOOD (<i>SWIDA ALTERNIFOLIA</i>) | FACU | 2.00 |
| AMERICAN HAZELNUT (<i>CORYLUS AMERICANA</i>) | FACU | 2.00 |
| ARROWWOOD (<i>VIBURNUM DENTATUM</i>) | FAC | 2.00 |
| NANNYBERRY (<i>VIBURNUM LENTAGO</i>) | FAC | 2.00 |

NOTE: HERBACEOUS AND SHRUB SEED MIXES TO BE APPLIED AT AN APPLICATION RATE RECOMMENDED BY THE SUPPLIER

| SOD SEED MIX | |
|---|-------|
| SPECIES | % |
| KENTUCKY BLUEGRASS (<i>POA PRATENSIS</i>) | 60-75 |
| PERENNIAL RYEGRASS (<i>LOLIUM PERENNE</i>) | 10-20 |
| TALL FESCUE (<i>SCHEDONORUS ARUNDINACEUS</i>) | 15 |

NOTE: SOD SEED MIX TO BE USED INSTEAD OF HERBACEOUS SEED MIX AND SHRUB SEED MIX FOR AREA OF INCREASED INFILTRATION P-10.13A (STA 753+50 TO STA 756+50)

PLANTING SCHEDULE B: SUPPLEMENTAL PLANTING AREAS

| SUPPLEMENTAL PLANTINGS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------|----------|------------|----|----|----|----------|----------|----|----|----------|----------|----|----------|----------|----------|----------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| SPECIES | WETLAND STATUS | SPACING | PLANT SIZE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | H1 | H2 | H3 | H4 NORTH | H4 SOUTH | S1 | S2 | S3 NORTH | S3 SOUTH | S4 | S5 NORTH | S5 SOUTH | S6 NORTH | S6 SOUTH | S7 | S8 | S9 | S10 | S11 | S12 | S13 | S14 | S15 | S16 | S17 | S18 | S19 | S20 | S21 | S22 | S23 | |
| SUMMERSWEET CLETHRA (<i>CLETHRA ALNIFOLIA</i>) | FAC | 48" O.C. | 2' - 3' | 58 | 26 | 30 | 12 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALTERNATE-LEAVED DOGWOOD (<i>SWIDA ALTERNIFOLIA</i>) | FACU | 48" O.C. | 24" - 30" | 58 | 26 | 30 | 12 | 9 | 10 | 4 | 16 | 23 | 5 | 12 | 20 | 12 | 10 | 18 | 5 | 16 | 10 | 14 | 15 | 8 | 6 | 4 | 15 | 18 | 30 | 100 | 11 | 27 | 3 | 11 | |
| NORTHERN BAYBERRY (<i>MYRICA PENNSYLVANICA</i>) | FAC | 48" O.C. | 2' - 3' | 58 | 26 | 30 | 12 | 9 | 10 | 4 | 16 | 23 | 5 | 12 | 20 | 12 | 10 | 18 | 5 | 16 | 10 | 14 | 15 | 8 | 6 | 4 | 15 | 18 | 30 | 100 | 11 | 27 | 3 | 11 | |
| AMERICAN HAZELNUT (<i>CORYLUS AMERICANA</i>) | FACU | 48" O.C. | 2' - 3' | 58 | 26 | 30 | 12 | 9 | 10 | 4 | 16 | 23 | | 12 | 20 | 12 | 10 | 18 | 5 | 16 | 10 | 14 | 15 | 8 | 6 | 4 | 15 | 18 | 30 | 100 | 11 | 27 | 3 | 11 | |

PLANTING NOTES:

- ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT OR ENVIRONMENTAL MONITOR PRIOR TO INSTALLATION.
- ANY PROPOSED PLANT SUBSTITUTIONS MUST BE REVIEWED BY LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE ENVIRONMENTAL MONITOR.
- ONLY SPECIES ARE ALLOWED (NO HORTICULTURAL CULTIVARS OR VARIETIES).
- SEED MIX AND PLANT STOCK SHALL BE OBTAINED FROM A NURSERY THAT SPECIALIZES IN NATIVE ECOLOGICAL PLANTINGS. PLANT STOCK SHALL BE SUPPLIED IN A PLANTING-READY CONDITION. ALL MATERIALS MUST BE INSPECTED AND APPROVED BY THE ENVIRONMENTAL MONITOR PRIOR TO BEING PLANTED. IF NOT PLANTED WITHIN 12 HOURS FROM WHEN THEY WERE COLLECTED, PLANTS SHALL BE STORED IN ACCORDANCE WITH RECOMMENDATIONS PROVIDED BY THE NURSERY.
- PLANT STOCK WILL BE INSTALLED IN HAND-DUG HOLES IN LOCATIONS TO BE DETERMINED BY ENVIRONMENTAL MONITOR.
- A 3-INCH DEEP MULCH PER SPECIFICATION SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTINGS BEDS, UNLESS OTHERWISE INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENVIRONMENTAL MONITOR.
- NO FERTILIZERS SHALL BE APPLIED.
- NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. CONTRACTOR SHALL NOTIFY THE ENVIRONMENTAL MONITOR OF ANY CONFLICT.
- ALL PLANT MATERIALS INSTALLED SHALL MEET THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND CONTRACT DOCUMENTS.
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
- ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR SPECIFICATION, OR APPROVED BY THE ENVIRONMENTAL MONITOR.
- FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS GRAPHICALLY SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLANT LIST AND PLANT LABELS PRIOR TO BIDDING.

- AREAS DESIGNATED AS "LOAM & SEED" SHALL RECEIVE MINIMUM 4" OF LOAM AND SPECIFIED SEED MIX.
- THIS PLAN IS INTENDED FOR PLANTING PURPOSES. REFER TO SITE/CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.

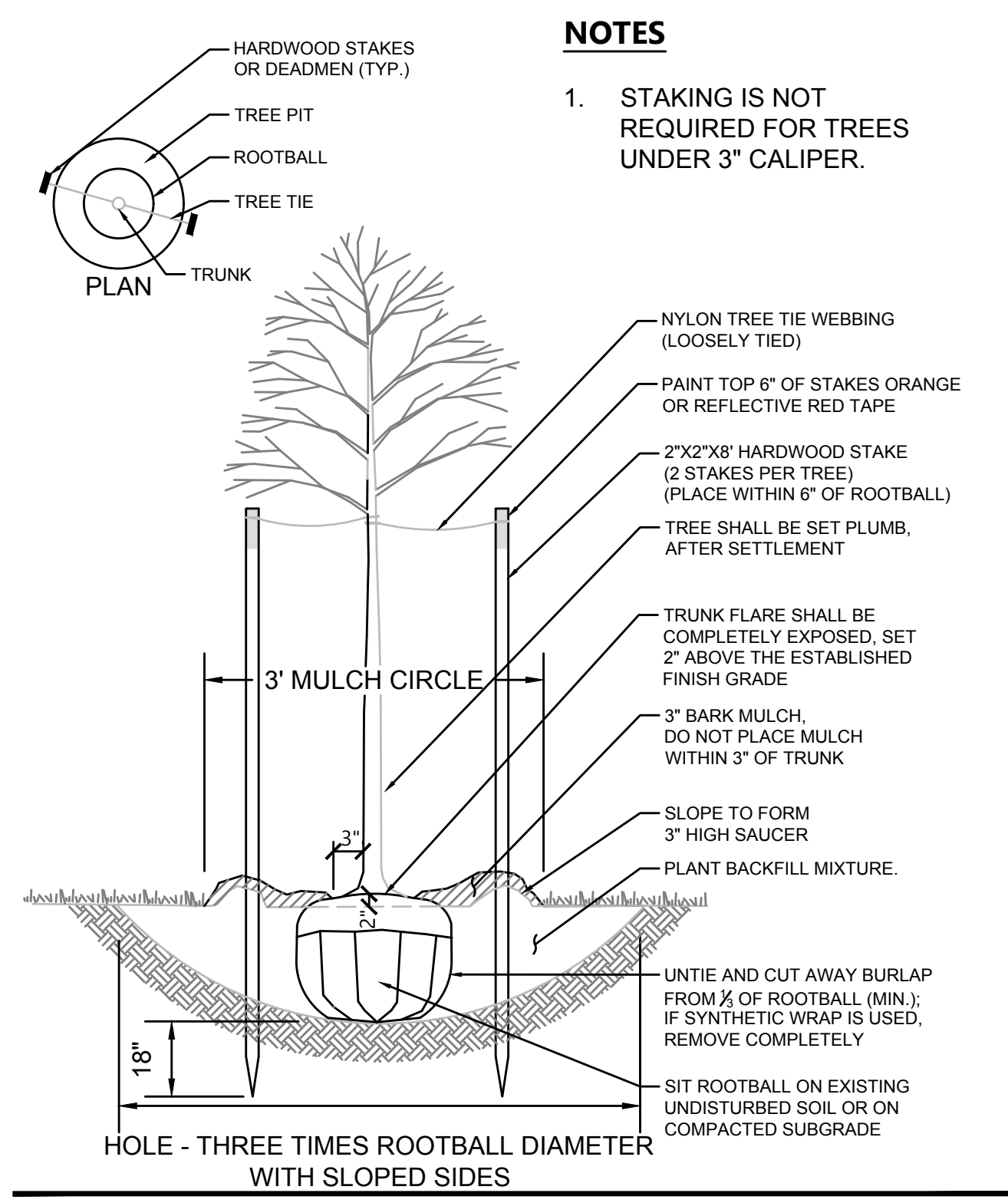
PLANT MAINTENANCE NOTES:

- CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF SEEDED AREAS AND PLANTINGS. NO IRRIGATION IS PROPOSED FOR THIS SITE. THE CONTRACTOR SHALL SUPPLY SUPPLEMENTAL WATERING FOR SEEDED AREAS AND PLANTINGS DURING THE ONE YEAR PLANT GUARANTEE PERIOD.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK. WATER SHALL BE PROVIDED BY THE CONTRACTOR.
- WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
- WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
- PROTECT PLANTING AREAS AND PLANTS AGAINST TRESPASSING AND DAMAGE OF ALL KINDS FOR THE DURATION OF THE MAINTENANCE PERIOD. IF ANY PLANTS BECOME DAMAGED OR INJURED, THEY SHALL BE TREATED OR REPLACED AS REQUIRED.
- CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS AT THE END OF THE ONE YEAR GUARANTEE PERIOD. CONTRACTOR SHALL TURN OVER MAINTENANCE TO THE FACILITY MAINTENANCE STAFF AT THAT TIME.

| | | | | | |
|---|------------------|-------------|--------------|--------------|------------------|
| NO. | | DESCRIPTION | BY | DATE | APPR. |
| REVISION | | | | | |
| EVERSOURCE | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | |
| CONSTRUCTION DETAILS | | | | | |
| PLAN 161 OF 348 | | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. REV. |

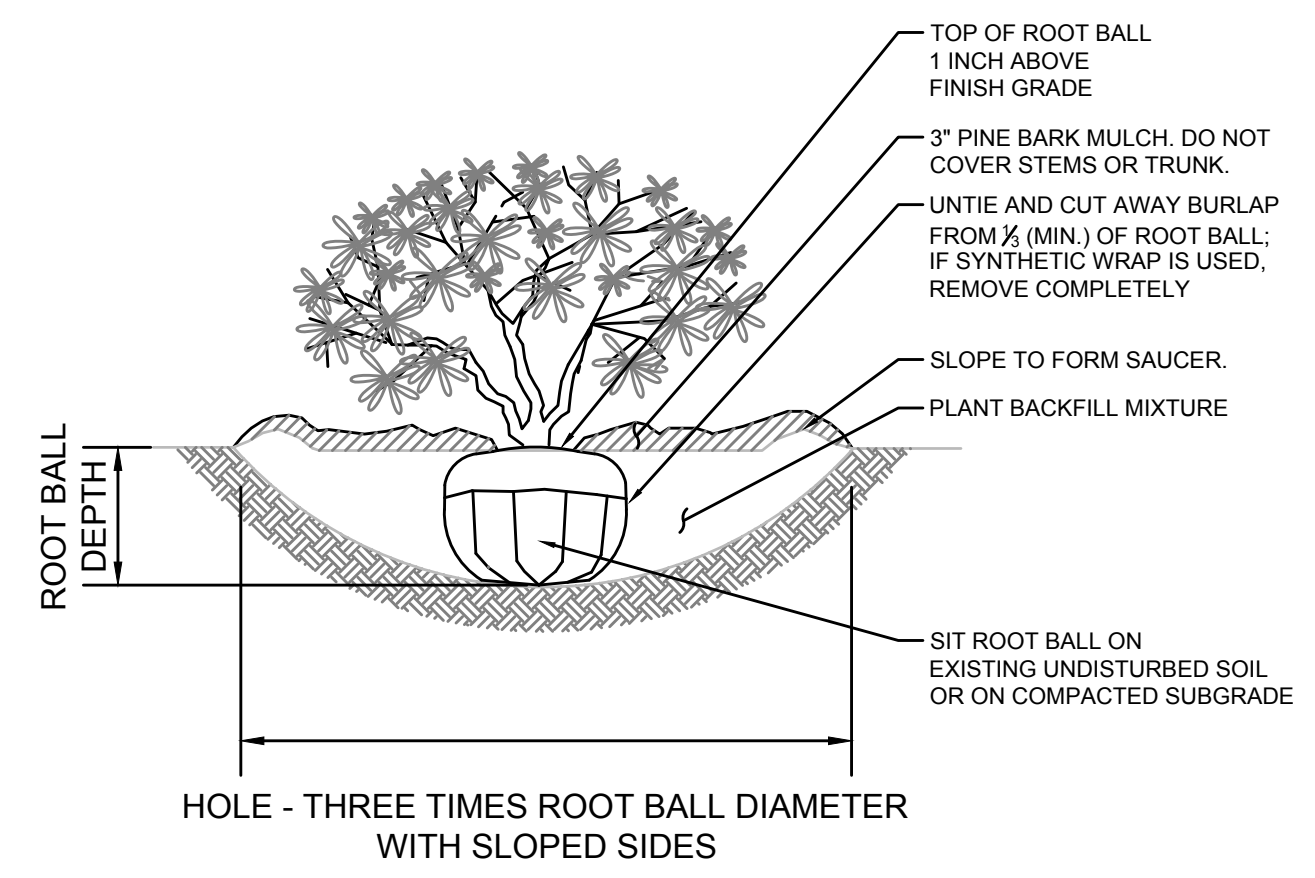
A
B
C
D
E
F
G

A
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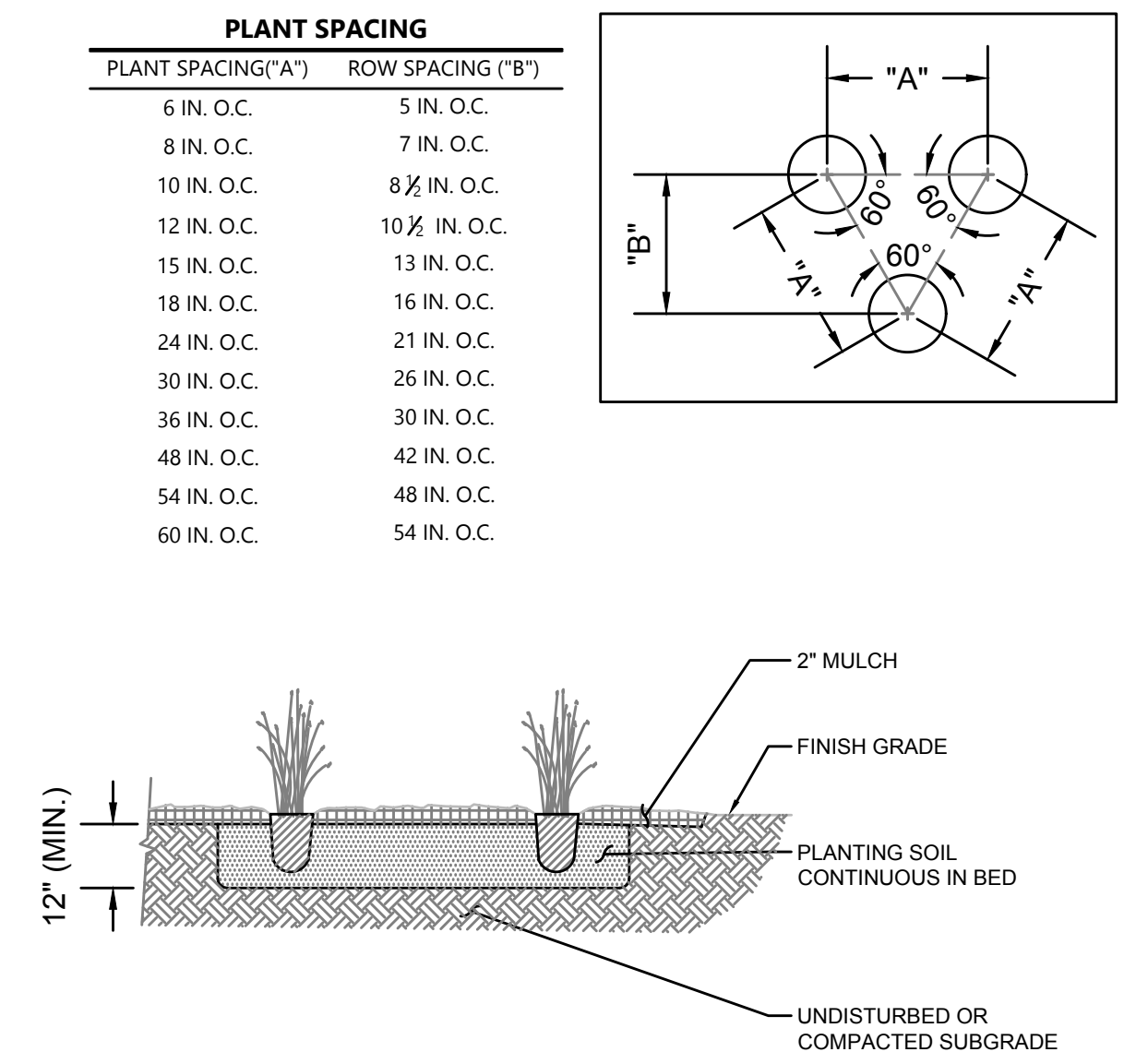
TREE PLANTING (FOR TREES UNDER 4" CALIPER)
SCALE: NTS

NOTES
1. STAKING IS NOT REQUIRED FOR TREES UNDER 3" CALIPER.



SHRUB PLANTING
SCALE: NTS

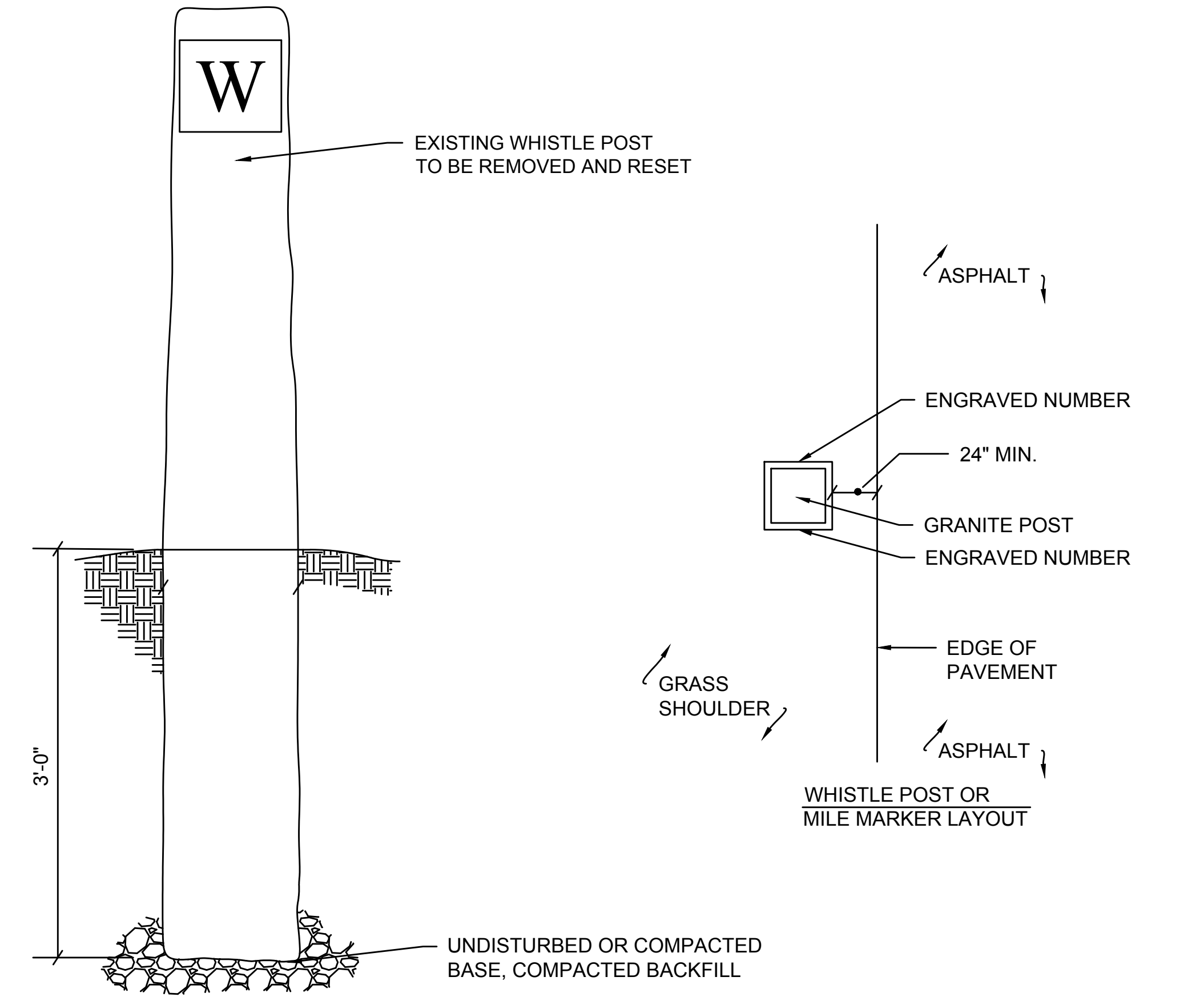
NOTES
1. LOOSEN ROOTS AT THE OUTER EDGE OF ROOTBALL OF CONTAINER GROWN SHRUBS.



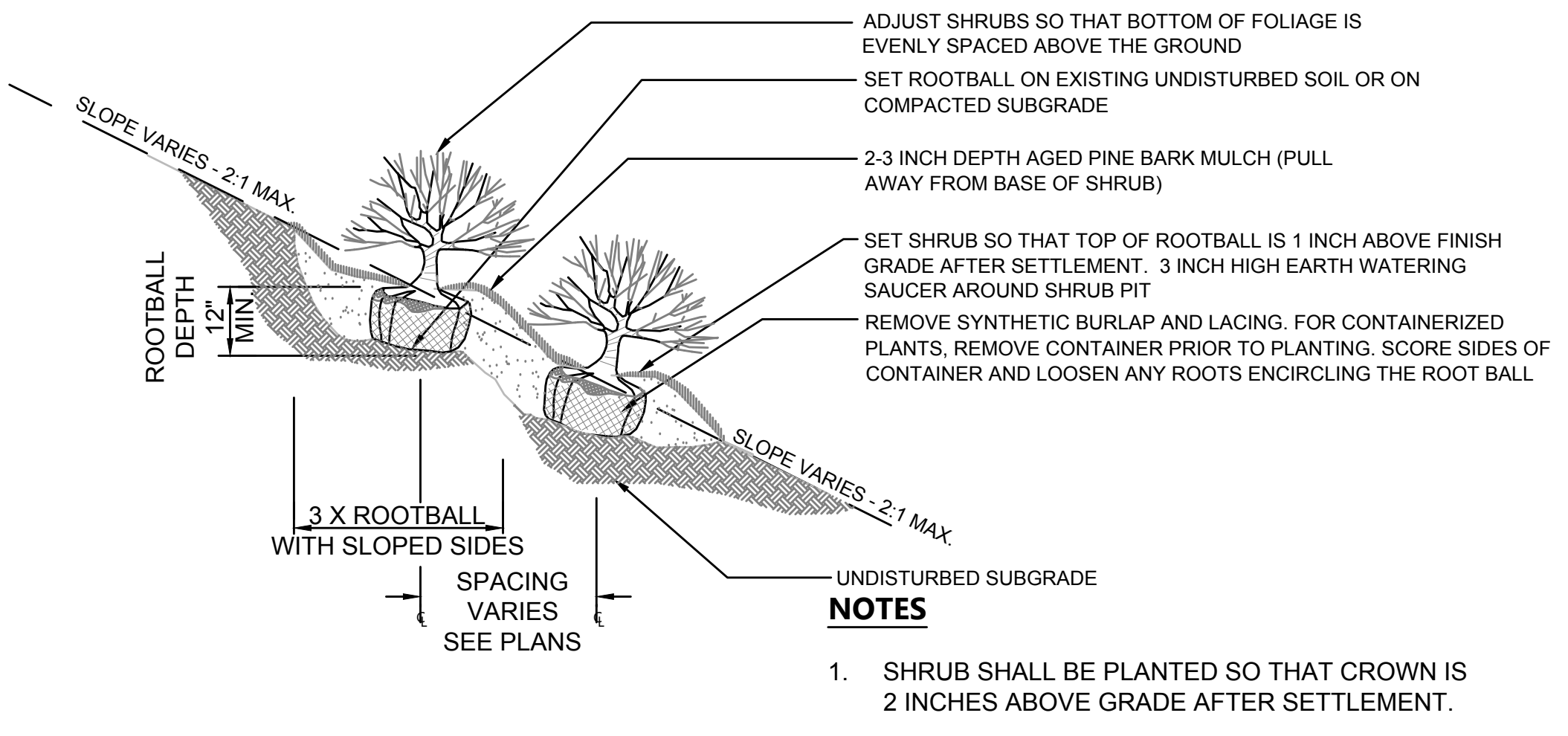
PERENNIAL PLANTING
SCALE: NTS

PLANT SPACING

| PLANT SPACING ("A") | ROW SPACING ("B") |
|---------------------|-------------------|
| 6 IN. O.C. | 5 IN. O.C. |
| 8 IN. O.C. | 7 IN. O.C. |
| 10 IN. O.C. | 8 1/2 IN. O.C. |
| 12 IN. O.C. | 10 1/2 IN. O.C. |
| 15 IN. O.C. | 13 IN. O.C. |
| 18 IN. O.C. | 16 IN. O.C. |
| 24 IN. O.C. | 21 IN. O.C. |
| 30 IN. O.C. | 26 IN. O.C. |
| 36 IN. O.C. | 30 IN. O.C. |
| 48 IN. O.C. | 42 IN. O.C. |
| 54 IN. O.C. | 48 IN. O.C. |
| 60 IN. O.C. | 54 IN. O.C. |

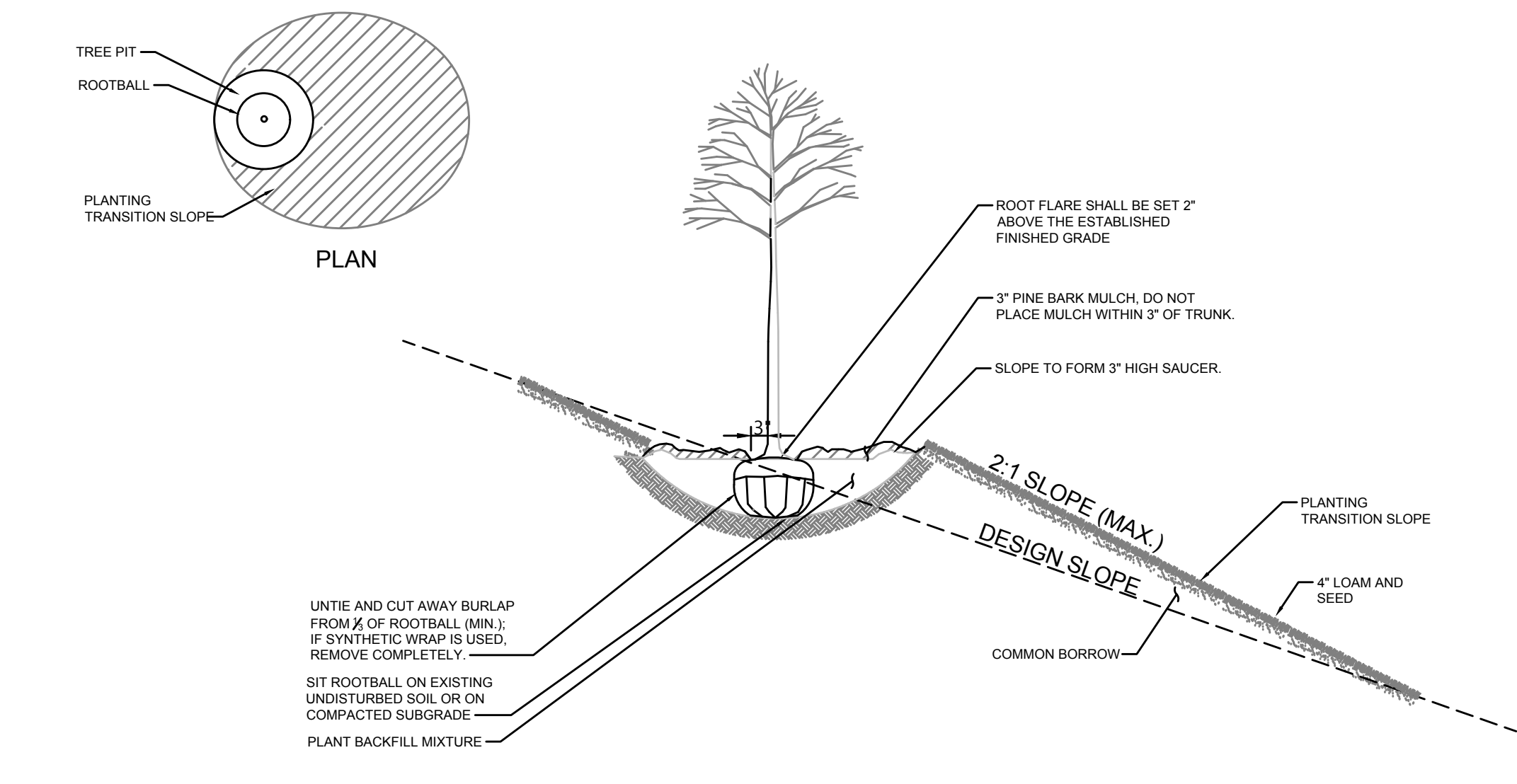


WHISTLE POST OR MILE MARKER DETAIL
SCALE: NTS

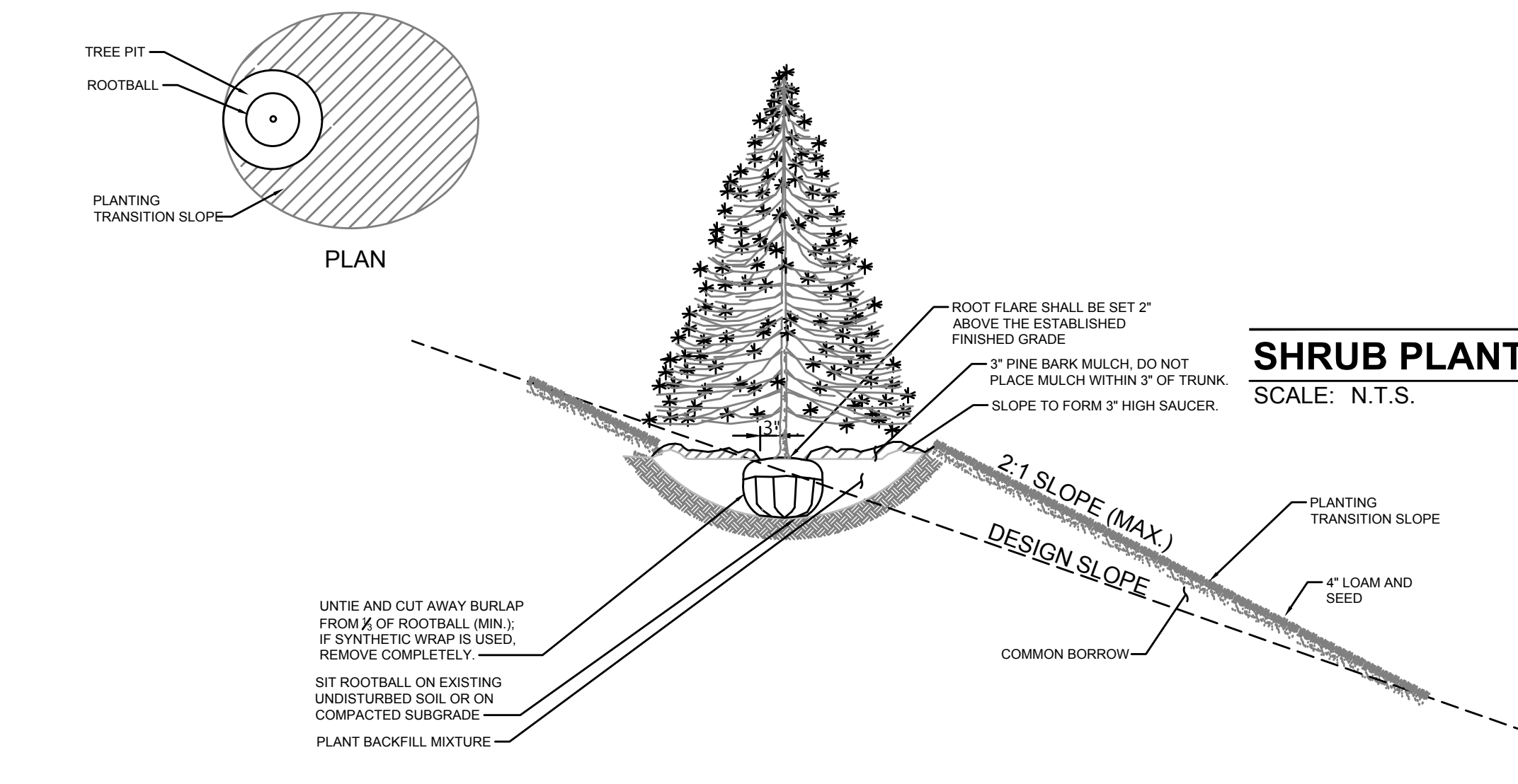


SHRUB PLANTING ON SLOPE
SCALE: N.T.S.

NOTES
1. SHRUB SHALL BE PLANTED SO THAT CROWN IS 2 INCHES ABOVE GRADE AFTER SETTLEMENT.



DECIDUOUS TREE PLANTING ON SLOPE
SCALE: N.T.S.

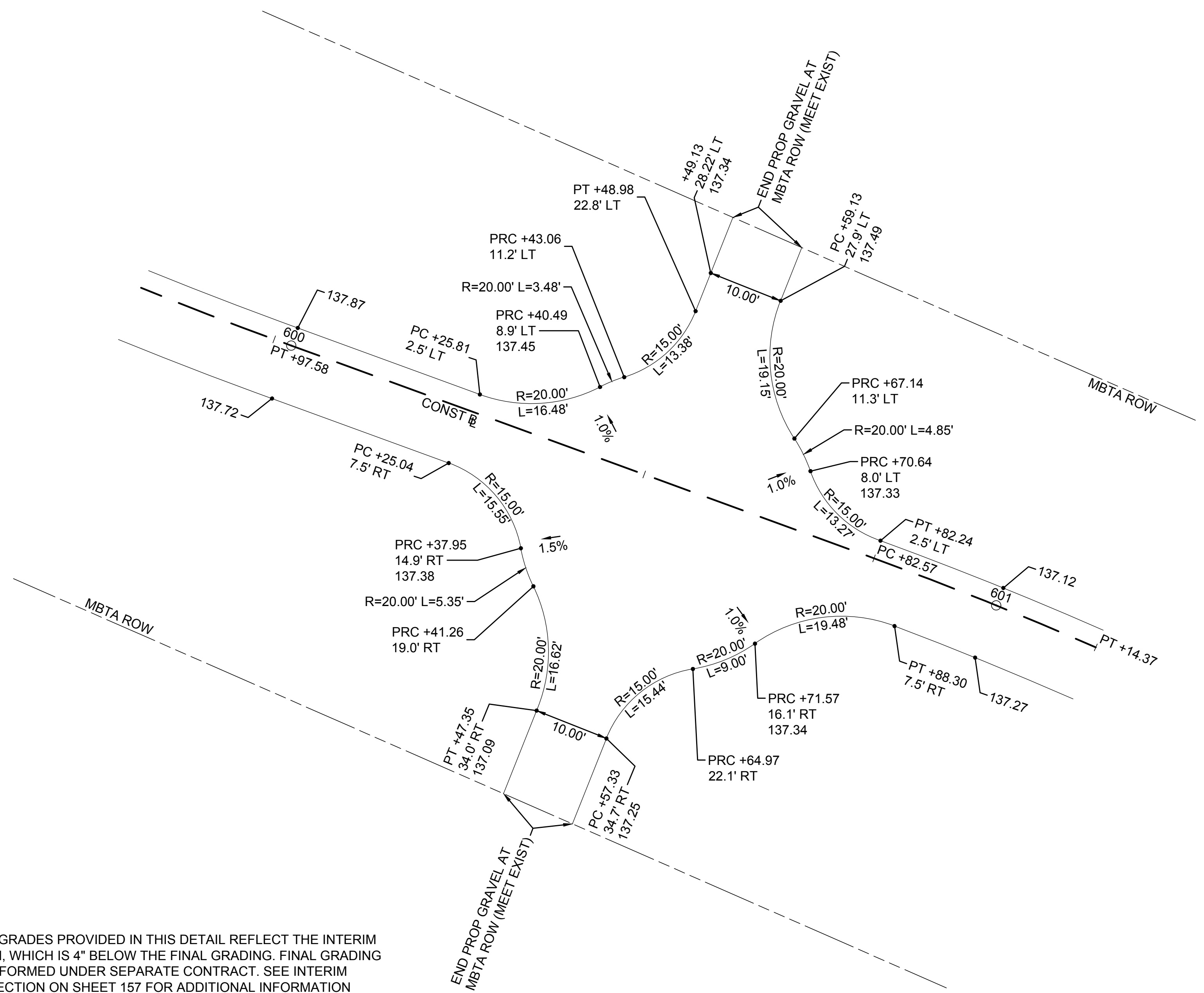


EVERGREEN TREE PLANTING ON SLOPE
SCALE: N.T.S.

| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION DETAILS | | | | |
| PLAN 162 OF 348 | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

1 2 3 4 5 6 7 8 9 10 11

A
B
C
D
E
F
G



NOTE:
THE SPOT GRADES PROVIDED IN THIS DETAIL REFLECT THE INTERIM
CONDITION, WHICH IS 4" BELOW THE FINAL GRADING. FINAL GRADING
TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE INTERIM
TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION

ROUNDBOUT

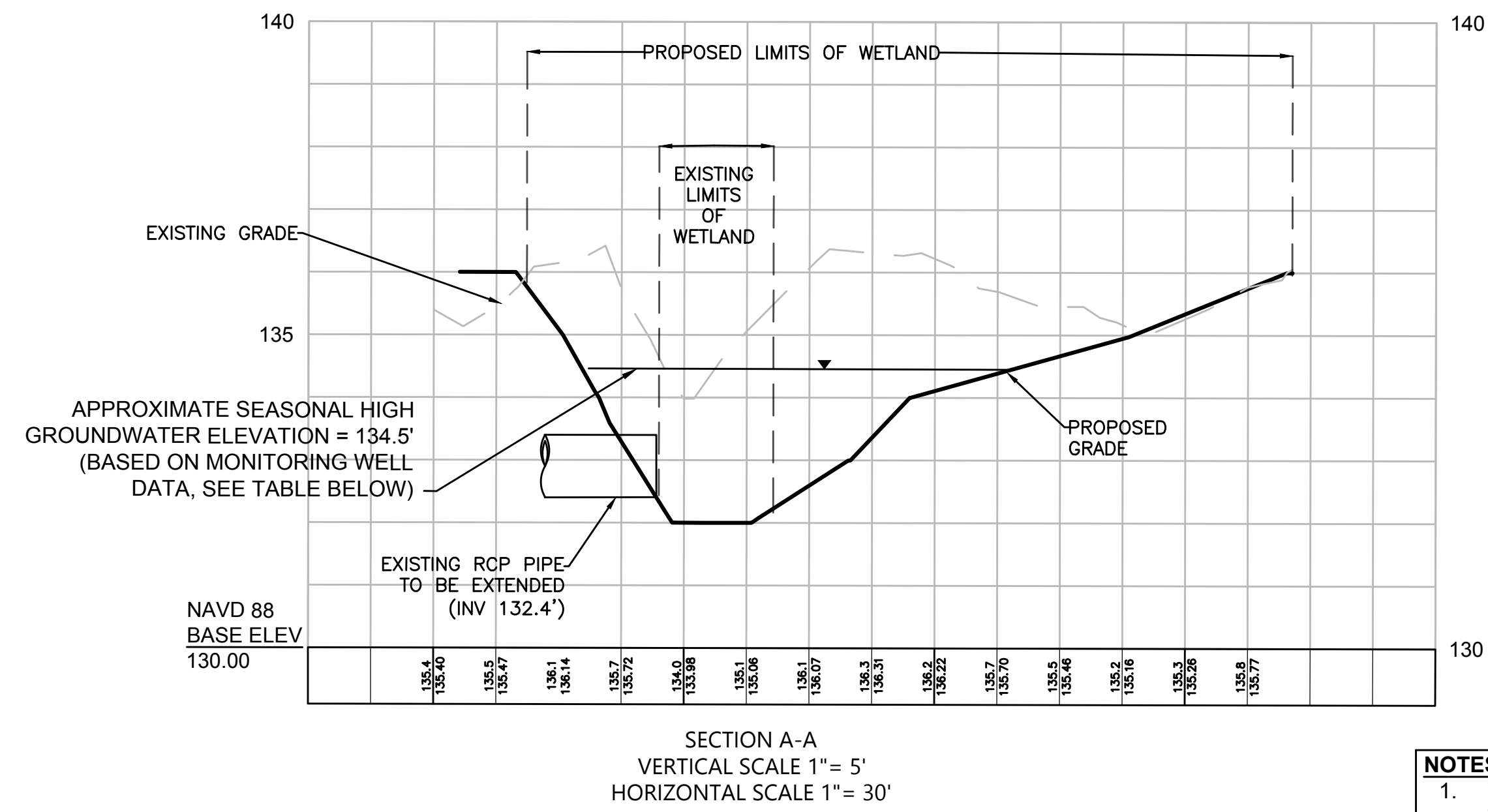
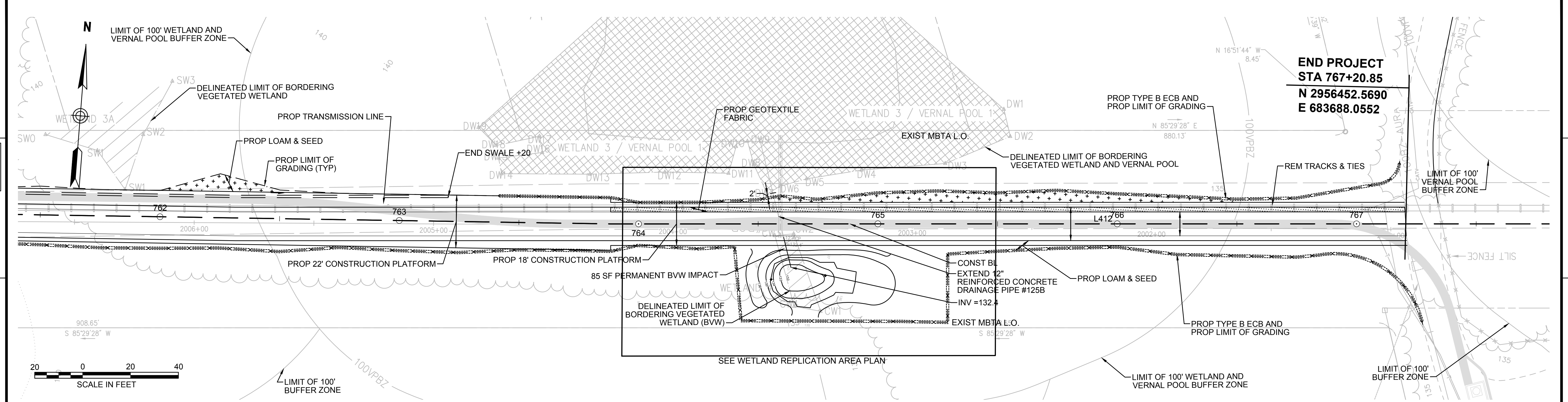
SCALE: 1"=10'

| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CONSTRUCTION DETAILS | | | | |
| PLAN 163 OF 348 | | | | |
| SCALE: unless noted NTS | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

1 2 3 4 5 6 7 8 9 10 11

1 2 3 4 5 6 7 8 9 10 11

CONT. ON SHEET 68



| GROUNDWATER DEPTH (FT) | | |
|------------------------|-------|-------|
| DATE | WW15* | WW16* |
| 12/5/2018 | 1.50 | 1.46 |
| 1/10/2019 | 1.55 | 1.58 |
| 2/12/2019 | 1.60 | N/A |
| 3/27/2019 | 1.56 | 1.55 |
| 4/18/2019 | 1.57 | 1.54 |
| 4/25/2019 | 1.48 | 1.46 |
| 5/23/2019 | 1.58 | 1.62 |

*WW15 AND WW16 LOCATED AT APPROXIMATELY ELEV 136'

- NOTES:**
1. WETLAND BOUNDARIES SHOWN HEREIN ARE THE SAME AS THOSE SHOWN ON HUDSON AND SUDBURY ANRAD PLANS (2018).
 2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.

Vanasse Hangen Brustlin, Inc.
101 Walnut St., PO Box 9151
Watertown, MA 02472
617.924.1770 FAX 617.924.2286

| N.O. | DESCRIPTION | BY | DATE | APPR. |
|------|-------------|----|------|-------|
| | REVISION | | | |

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
WETLAND REPLICATION GRADING PLAN
PLAN 167 OF 348

| SCALE: unless noted 1"=20' | DATE | DRAWN | CHK'D. | APPR. | DRAWING NO. | REV. |
|----------------------------|----------|-------|--------|-------|-------------|------|
| | OCT 2020 | MBB | EJM | MAC | | |



TEMPORARY BVW IMPACT (201 SF)
DISTURBANCE TO BE REPLACED IN PLACE

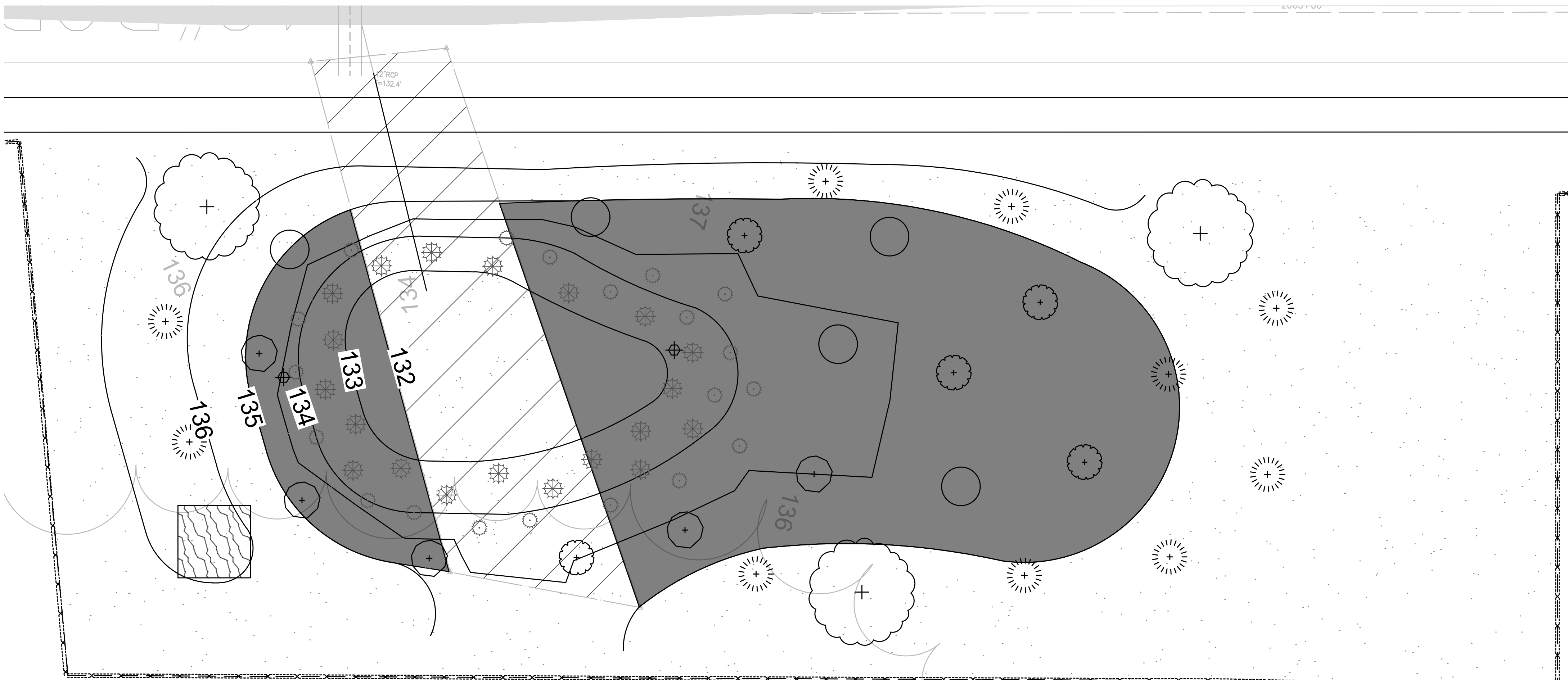
WETLAND REPLICATION AREA PLAN
SCALE 1" = 10'

LEGEND



1 2 3 4 5 6 7 8 9 10 11

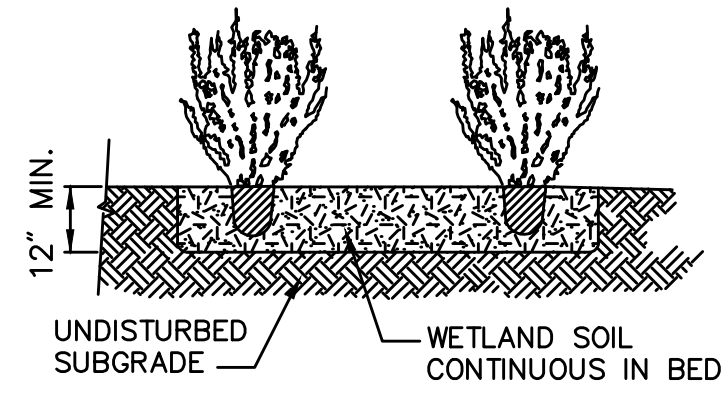
CONT. ON SHEET 68



WETLAND REPLICATION PLANTING PLAN
SCALE 1" = 4'

| Specimen | Wetland Status | Plant Type | Plant Size | Quantity | Density/Spacing |
|---|----------------|------------|--------------|----------|-------------------|
| Basin Embankment: | | | | | |
| buttonbush (<i>Cephalanthus occidentalis</i>) | OBL | Shrub | 18-24 inches | 5 | 6-8 ft. on center |
| arrow arum (<i>Peltandra virginica</i>) | OBL | Herbaceous | 2" plug | 20 | 2-3 ft. on center |
| swamp rose | OBL | Shrub | 18-24 inches | 5 | 6 ft. on center |
| giant bur-reed (<i>Sparganium eurycarpum</i>) | OBL | Herbaceous | 2" plug | 20 | 2-3 ft. on center |
| silky dogwood (<i>Swida amomum</i>) | FACW | Shrub | 18-24 inches | 5 | 6 ft. on center |
| Wetland seed mix ¹ | -- | Herbaceous | -- | | 18 lb./ac |
| Surrounding Buffer Zone: | | | | | |
| red maple (<i>Acer rubrum</i>) | FAC | Tree | 1-2" caliper | 3 | 15 ft. on center |
| sweet pepperbush (<i>Clethra alnifolia</i>) | FAC | Shrub | 18-24 inches | 10 | 6 ft. on center |
| Wetland seed mix ¹ | -- | Herbaceous | -- | | 18 lb./ac |

¹Wetland seed mix: "New England Wetmix" from New England Wetland Plants, Inc. or similar. Typical species: fox sedge (*Carex vulpinoidea*), sallow sedge (*Carex lurida*), broom sedge (*Carex scoparia*), sensitive fern (*Onoclea sensibilis*), blue vervain (*Verbena hastata*), hop sedge (*Carex lupulina*), dark-green bulrush (*Scirpus atrovirens*), nodding bur-marigold (*Bidens cernua*), bristly sedge (*Carex comosa*), fringed sedge (*Carex crinita*), tall mannagrass (*Glyceria grandis*), wool-grass (*Scirpus cyperinus*), soft rush (*Juncus effusus*), spotted Joe-Pye-weed (*Eutrochium maculatum*), boneset (*Eupatorium perfoliatum*), American water-plantain (*Alisma subcordatum*), New England aster (*Symphotrichum novae-angliae*), rattlesnake mannagrass (*Glyceria canadensis*), purple-stem aster (*Symphotrichum puniceum*), soft-stemmed bulrush (*Schoenoplectus tabernaemontani*), blueflag (*Iris versicolor*), swamp milkweed (*Asclepias incarnata*), and Allegheny monkey-flower (*Mimulus ringens*).



Shrub Planting 6/08
N.T.S. Source: WHB LD_691

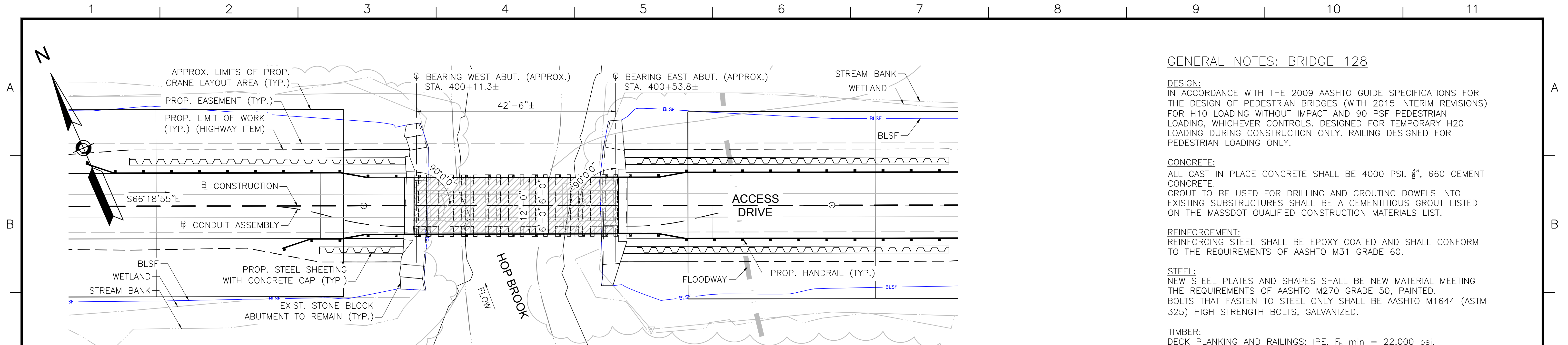
LEGEND

| | | | | | |
|--|-----------------------------------|--|------------------|--|----------------|
| | WETLAND SEED MIX | | BUTTONBUSH | | GIANT BUR-REED |
| | REPLICATION AREA/WETLAND SEED MIX | | SWEET PEPPERBUSH | | ARROW ARUM |
| | RED MAPLE | | SILKY DOGWOOD | | TREE SNAG |
| | | | SWAMP ROSE | | |

- NOTES:**
- CONSTRUCTION OF THE WETLAND REPLICATION AREA WILL INCLUDE GRADING, SOILS PLACEMENT, AND PLANTING, AND ALL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF AN EXPERIENCED WETLAND SCIENTIST. ALL PLANTINGS SHALL BE PERFORMED IN SPRING (APRIL 15 TO JUNE 15) OR FALL (SEPTEMBER 1 TO OCTOBER 31).
 - AN EROSION CONTROL BARRIER WILL CONSIST OF SYNCOPATED SILT FENCE (TYPE B EROSION CONTROL BARRIER) AND SHALL BE INSTALLED ALONG THE ENTIRE PERIMETER OF THE REPLICATION AREA EXCEPT AT THE UPGRADIENT EDGE TO ALLOW ACCESS TO MACHINERY.
 - ALL AREAS TO BE PLANTED AS PART OF THE REPLICATION AREA SHALL BE CLEARED AND GRUBBED (AS NEEDED) AND SHALL BE EXCAVATED TO A DEPTH OF 12 INCHES BELOW THE FINAL DESIGN ELEVATIONS. MINOR MODIFICATIONS TO THE GRADING PLAN MAY BE MADE IN THE FIELD BY THE SUPERVISING WETLAND SCIENTIST IN RESPONSE TO HYDROLOGIC CONDITIONS. THE SUPERVISING WETLAND SCIENTIST WILL INSPECT THE FINAL SUB-GRADE OF THE REPLICATION AREA TO ENSURE THAT THE PROPER HYDROLOGY HAS BEEN ESTABLISHED.
 - THE TWELVE-INCH DBH SNAG THAT WILL BE REMOVED DURING CONSTRUCTION WILL BE REINSTALLED WITH A SIGNIFICANT PORTION OF THE ROOT MASS INTACT. THE SNAG WILL BE FIRMLY ENTRENCHED TO PREVENT FUTURE WINDTHROW.
 - THE REPLICATION AREA WILL THEN BE BACKFILLED WITH PREPARED WETLAND SOIL. PREPARED SOILS SHALL CONSIST OF A 1:1 MIXTURE (OR EQUAL VOLUMES) OF ORGANIC AND MINERAL MATERIALS (IN THE SILT LOAM, LOAM, OR LOAMY SAND RANGE) TO INCREASE THE ORGANIC CARBON CONTENT TO BETWEEN 4 AND 12 PERCENT BY WEIGHT. CLEAN LEAF OR COMMERCIALY AVAILABLE COMPOST IS THE PREFERRED AMENDMENT TO ACHIEVE THIS STANDARD, ALTHOUGH OTHER MATERIALS MAY BE USED IF APPROVED BY THE SUPERVISING WETLAND SCIENTIST. AREAS TO BE PLANTED AS BVW SHOULD BE GRADED IN A SLIGHTLY IRREGULAR FASHION TO ALLOW FOR SMALL HUMMOCKS AND HOLLOWES APPROXIMATELY 6 INCHES ABOVE AND BELOW GRADE TO CREATE A PIT AND MOUND TOPOGRAPHY.
 - FALLEN LOGS, BRANCHES, AND OTHER NATURAL MATERIALS SHALL BE DISTRIBUTED IN THE REPLICATION AREA TO PROVIDE ADDITIONAL WILDLIFE HABITAT. THESE MATERIALS SHALL COVER 2 TO 4 PERCENT OF THE REPLICATION AREA'S SURFACE AND SHALL NOT INCLUDE ANY KNOWN INVASIVE SPECIES. WOODY MATERIAL SHOULD VARY IN SIZE AND DEGREE OF DECOMPOSITION.
 - ONCE WETLAND SOILS AND ANY NATURAL MATERIALS HAVE BEEN PLACED, ANY EQUIPMENT OR VEHICLES EXERTING A GROUND PRESSURE OF 3 PSI OR GREATER SHALL NO LONGER BE ALLOWED IN THE REPLICATION AREA TO AVOID COMPACTING THE WETLAND SOILS.
 - PLANTINGS WILL BE INSTALLED ONCE THE ABOVE TASKS HAVE BEEN COMPLETED. ALL SHRUB PLANTING WORK SHALL BE PERFORMED BY HAND USING HAND TOOLS ONLY. THE SPECIES, SIZE, AND QUANTITY OF PLANTINGS SHALL FOLLOW THE PLANTING SCHEDULE. ONLY PLANT MATERIALS NATIVE TO THE REGION SHALL BE USED. IN THE EVENT THAT PLANT SUBSTITUTIONS ARE NECESSARY, THE SUPERVISING WETLAND SCIENTIST OR ANOTHER QUALIFIED WETLAND SCIENTIST OR BOTANIST SHALL BE CONSULTED. ALL WOODY PLANT STOCK SHALL EITHER BE BARE-ROOT OR CONTAINER-GROWN. PLANTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN SPECIFIED ON THE PLAN, ALTHOUGH THE SUPERVISING WETLAND SCIENTIST MAY DIRECT THE PROJECT CONTRACTOR TO RELOCATE PLANTINGS BASED ON FIELD CONDITIONS.
 - FOLLOWING SHRUB PLANTINGS, THE AREA WILL BE SEEDED WITH A NATIVE WETLAND SEED MIX AS SPECIFIED IN THE PLANTING SCHEDULE OR A SIMILAR MIX. THE SEED MIX SHALL BE APPLIED AT A RATE AND IN A MANNER ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
 - FOLLOWING COMPLETION OF PLANTING AND SEEDING, A LINE OF EROSION CONTROLS WILL BE INSTALLED ALONG THE UPGRADIENT EDGE OF THE REPLICATION AREA. ALL EROSION CONTROLS AROUND THE REPLICATION AREA SHALL REMAIN IN PLACE UNTIL VEGETATION IS WELL-ESTABLISHED AND SOILS HAVE STABILIZED. EROSION CONTROLS WILL REMAIN IN PLACE UNTIL REMOVAL HAS BEEN APPROVED BY THE ENVIRONMENTAL MONITOR.
 - THE REPLICATION AREA WILL BE MONITORED FOR TWO FULL GROWING SEASONS AFTER PLANTING. THE AREA WILL BE INSPECTED TWICE PER YEAR TO ASSESS WHETHER THE AREA HAS ACHIEVED 75 PERCENT COVER BY REGIONAL INDIGENOUS WETLAND SPECIES. CONSIDERATION WILL BE GIVEN TO OTHER NATIVE WETLAND PLANT SPECIES THAT BECOME ESTABLISHED IN THE REPLICATION.
 - INVASIVE SPECIES WITHIN THE REPLICATION AREA SHALL BE REMOVED BY HAND FOR TWO GROWING SEASONS AFTER PLANTING. IF NECESSARY ANY AREAS WHERE INVASIVE SPECIES HAVE BEEN REMOVED WILL BE RESEDED WITH A SUITABLE WETLAND SEED MIX.
 - SHRUBS AND SEED MIX ARE SUBJECT TO CHANGE OR SUBSTITUTION PENDING AVAILABILITY AND ACTUAL SITE CONDITIONS.

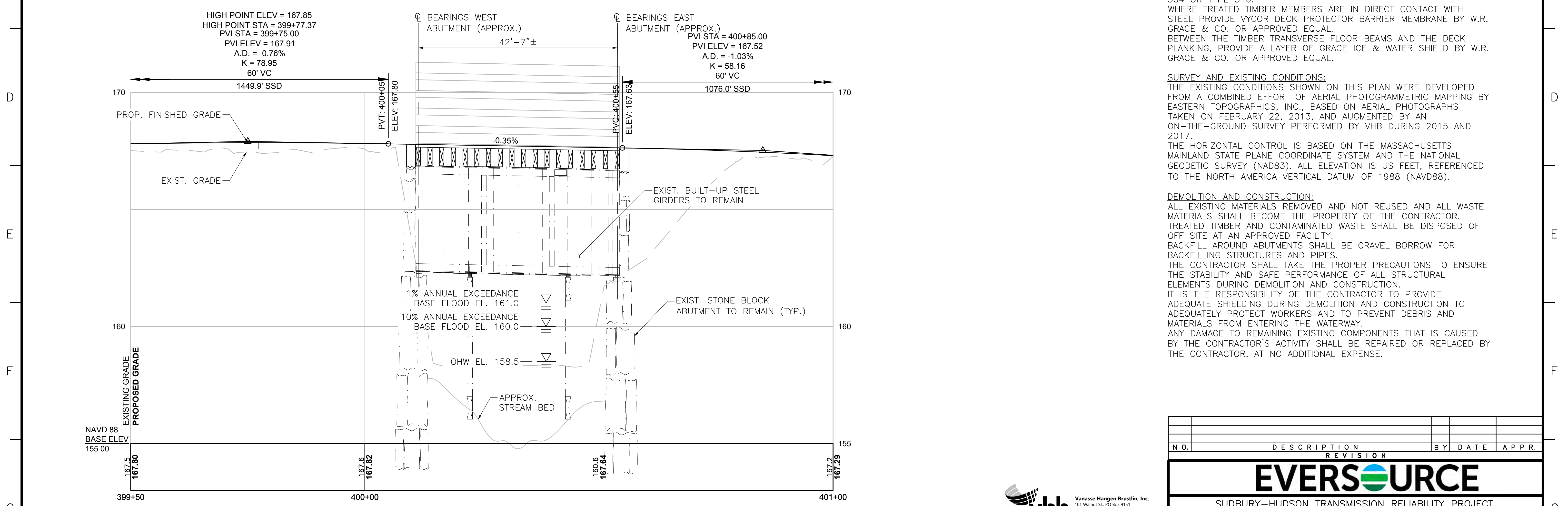
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| NO. | | | | DESCRIPTION | | | | BY DATE | | APPR. | | | | | | | | | | |
| EVERSOURCE | | | | | | | | | | | | | | | | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | | | | | | | | | | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | | | | | | | | | | | | | | | |
| WETLAND REPLICATION PLANTING PLAN | | | | | | | | | | | | | | | | | | | | |
| PLAN 168 OF 348 | | | | | | | | | | | | | | | | | | | | |
| SCALE: unless noted 1"=4' | | | DATE | | | DRAWN | | | CHK'D. | | | APPR. | | | DRAWING NO. | | | REV. | | |
| | | | OCT 2020 | | | MBB | | | EJM | | | MAC | | | | | | | | |

Vanasse Hangen Brustlin, Inc.
101 Walnut St., PO Box 9151
Waltham, MA 02457
617.924.1770 FAX 617.924.2286



BRIDGE KEY PLAN

SCALE: 1"=10'



PROFILE - ACCESS DRIVE

HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1/2"=1'-0"

GENERAL NOTES: BRIDGE 128

DESIGN:
IN ACCORDANCE WITH THE 2009 AASHTO GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES (WITH 2015 INTERIM REVISIONS) FOR H10 LOADING WITHOUT IMPACT AND 90 PSF PEDESTRIAN LOADING, WHICHEVER CONTROLS. DESIGNED FOR TEMPORARY H20 LOADING DURING CONSTRUCTION ONLY. RAILING DESIGNED FOR PEDESTRIAN LOADING ONLY.

CONCRETE:
ALL CAST IN PLACE CONCRETE SHALL BE 4000 PSI, 3/8", 660 CEMENT CONCRETE.
GROUT TO BE USED FOR DRILLING AND GROUTING DOWELS INTO EXISTING SUBSTRUCTURES SHALL BE A CEMENTITIOUS GROUT LISTED ON THE MASSDOT QUALIFIED CONSTRUCTION MATERIALS LIST.

REINFORCEMENT:
REINFORCING STEEL SHALL BE EPOXY COATED AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60.

STEEL:
NEW STEEL PLATES AND SHAPES SHALL BE NEW MATERIAL MEETING THE REQUIREMENTS OF AASHTO M270 GRADE 50, PAINTED.
BOLTS THAT FASTEN TO STEEL ONLY SHALL BE AASHTO M1644 (ASTM 325) HIGH STRENGTH BOLTS, GALVANIZED.

TIMBER:
DECK PLANKING AND RAILINGS: IPE, F_b min = 22,000 psi.
FLOOR BEAMS: SYP NO. 1 OR BETTER, F_b min = 1,050 psi.
SYP TIMBER SHALL BE TREATED WITH ACQ-D WITH 0.60 PCF RETENTION.
ALL NAILS, SCREWS, BOLTS, WASHERS, CONNECTORS, FASTENERS AND HARDWARE FOR WOOD CONNECTIONS SHALL BE STAINLESS STEEL TYPE 304 OR TYPE 316.
WHERE TREATED TIMBER MEMBERS ARE IN DIRECT CONTACT WITH STEEL PROVIDE VYCOR DECK PROTECTOR BARRIER MEMBRANE BY W.R. GRACE & CO. OR APPROVED EQUAL.
BETWEEN THE TIMBER TRANSVERSE FLOOR BEAMS AND THE DECK PLANKING, PROVIDE A LAYER OF GRACE ICE & WATER SHIELD BY W.R. GRACE & CO. OR APPROVED EQUAL.

SURVEY AND EXISTING CONDITIONS:
THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE DEVELOPED FROM A COMBINED EFFORT OF AERIAL PHOTOGRAMMETRIC MAPPING BY EASTERN TOPOGRAPHICS, INC., BASED ON AERIAL PHOTOGRAPHS TAKEN ON FEBRUARY 22, 2013, AND AUGMENTED BY AN ON-THE-GROUND SURVEY PERFORMED BY VHB DURING 2015 AND 2017.
THE HORIZONTAL CONTROL IS BASED ON THE MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM AND THE NATIONAL GEODETIC SURVEY (NAD83). ALL ELEVATION IS US FEET, REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88).

DEMOLITION AND CONSTRUCTION:
ALL EXISTING MATERIALS REMOVED AND NOT REUSED AND ALL WASTE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. TREATED TIMBER AND CONTAMINATED WASTE SHALL BE DISPOSED OF OFF SITE AT AN APPROVED FACILITY.
BACKFILL AROUND ABUTMENTS SHALL BE GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES.
THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE THE STABILITY AND SAFE PERFORMANCE OF ALL STRUCTURAL ELEMENTS DURING DEMOLITION AND CONSTRUCTION.
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE SHIELDING DURING DEMOLITION AND CONSTRUCTION TO ADEQUATELY PROTECT WORKERS AND TO PREVENT DEBRIS AND MATERIALS FROM ENTERING THE WATERWAY.
ANY DAMAGE TO REMAINING EXISTING COMPONENTS THAT IS CAUSED BY THE CONTRACTOR'S ACTIVITY SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AT NO ADDITIONAL EXPENSE.



| NO. | DESCRIPTION | BY | DATE | APPR. |
|---|-------------|------------------------|------|----------------------|
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| BRIDGE S-31-017 (BRIDGE 128) - KEY PLAN & PROFILE | | | | |
| PLAN 188 OF 348 | | | | |
| SCALE: unless noted H: 1"=10' V: 1/2"=1'-0" | | DATE DRAWN OCT 2020 | | APPR. AMS SBK KGK |
| | | DRAWING NO. | | REV. |

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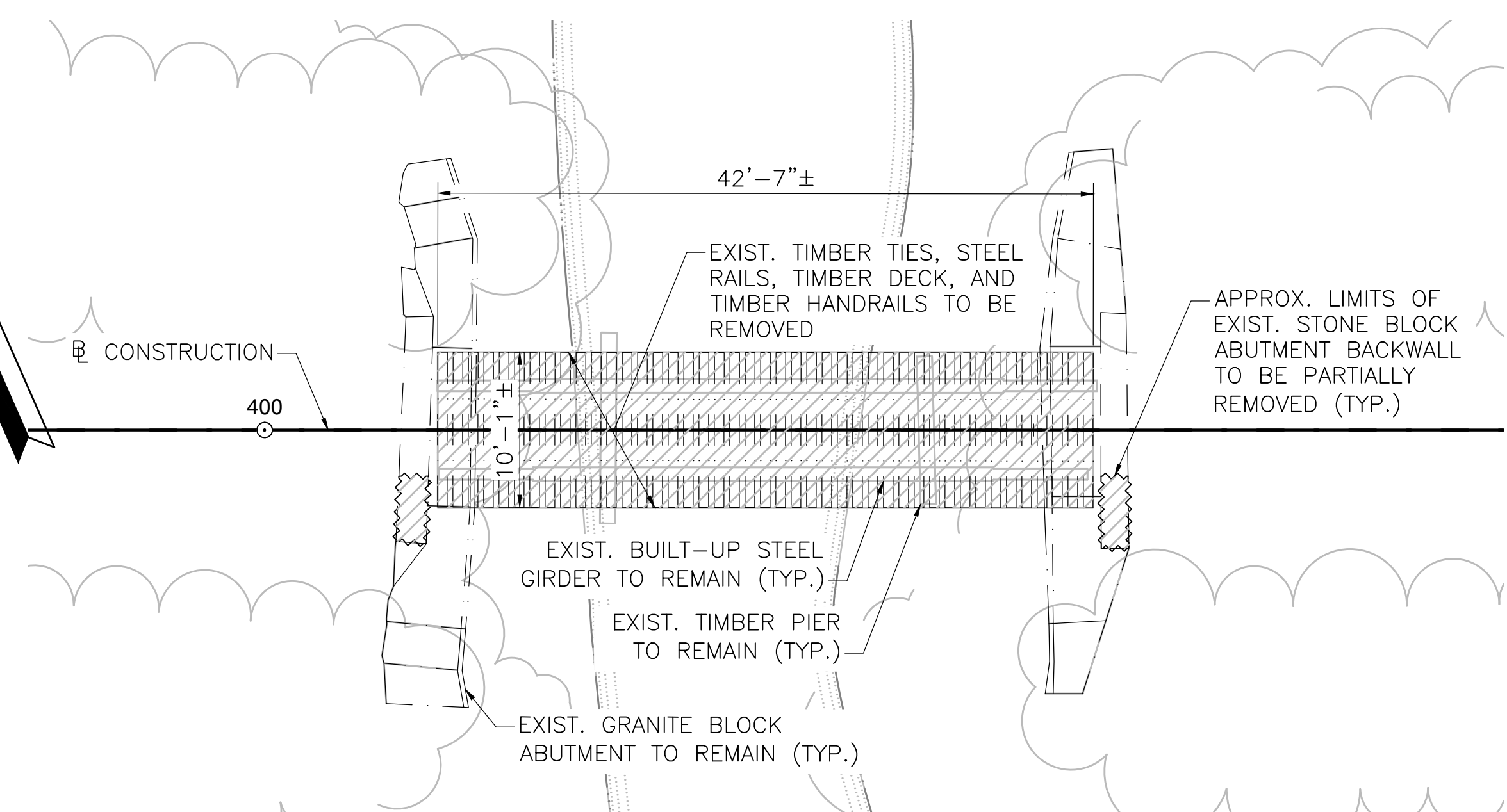
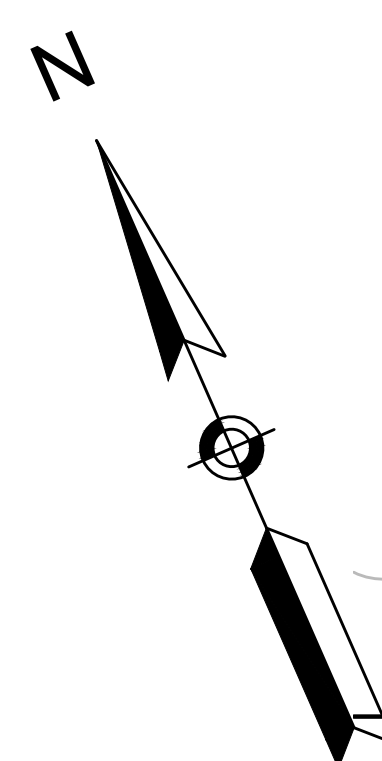
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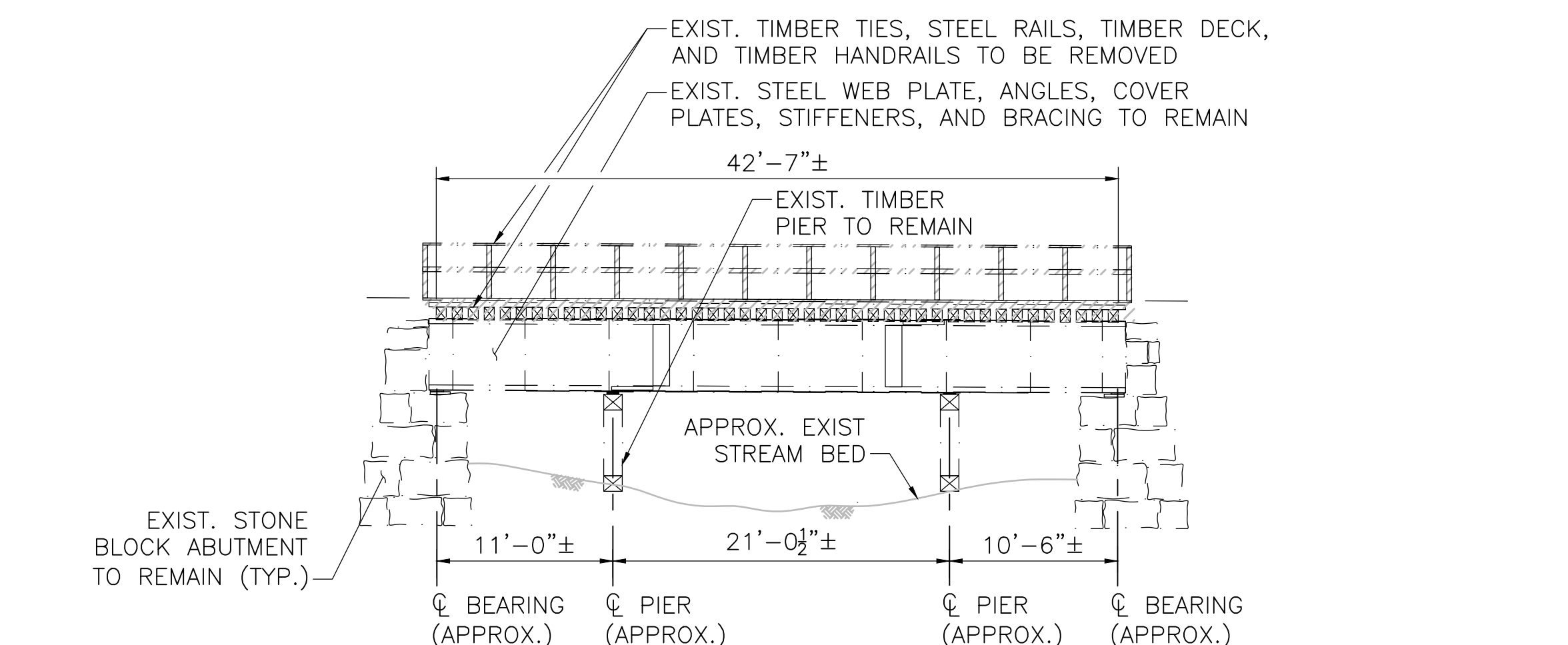
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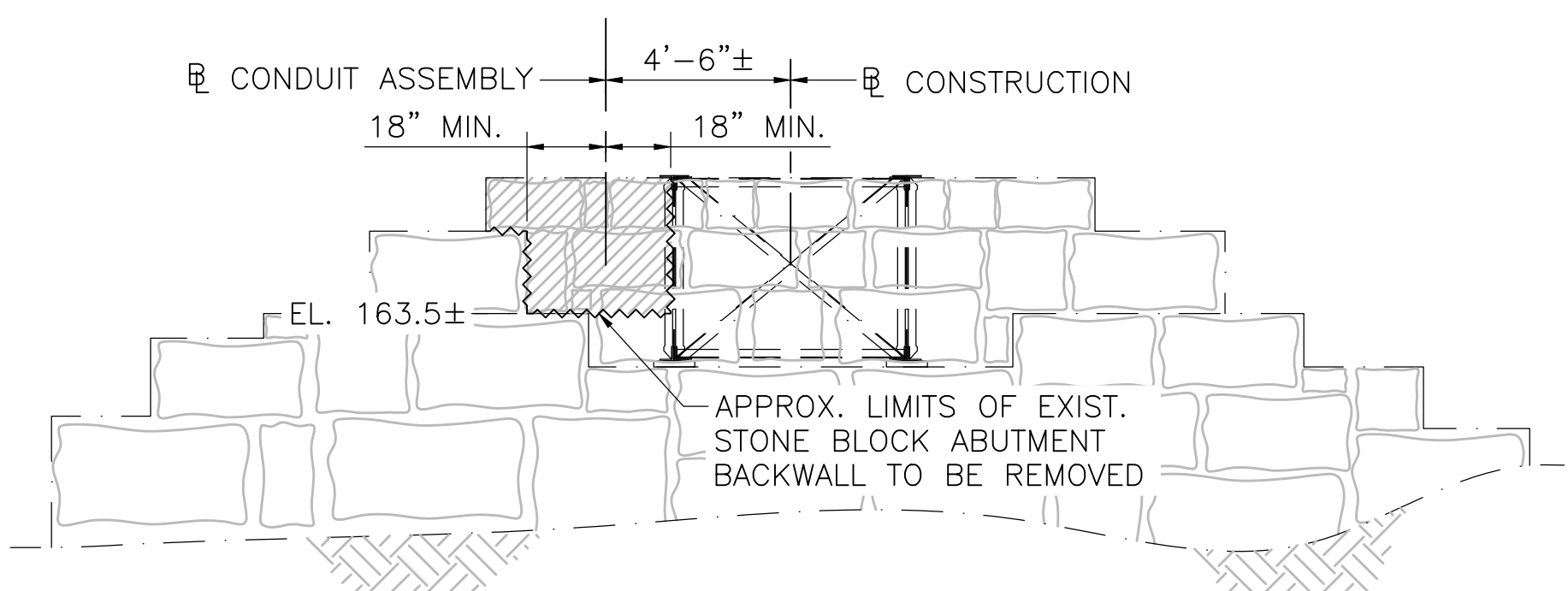
BRIDGE PLAN

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



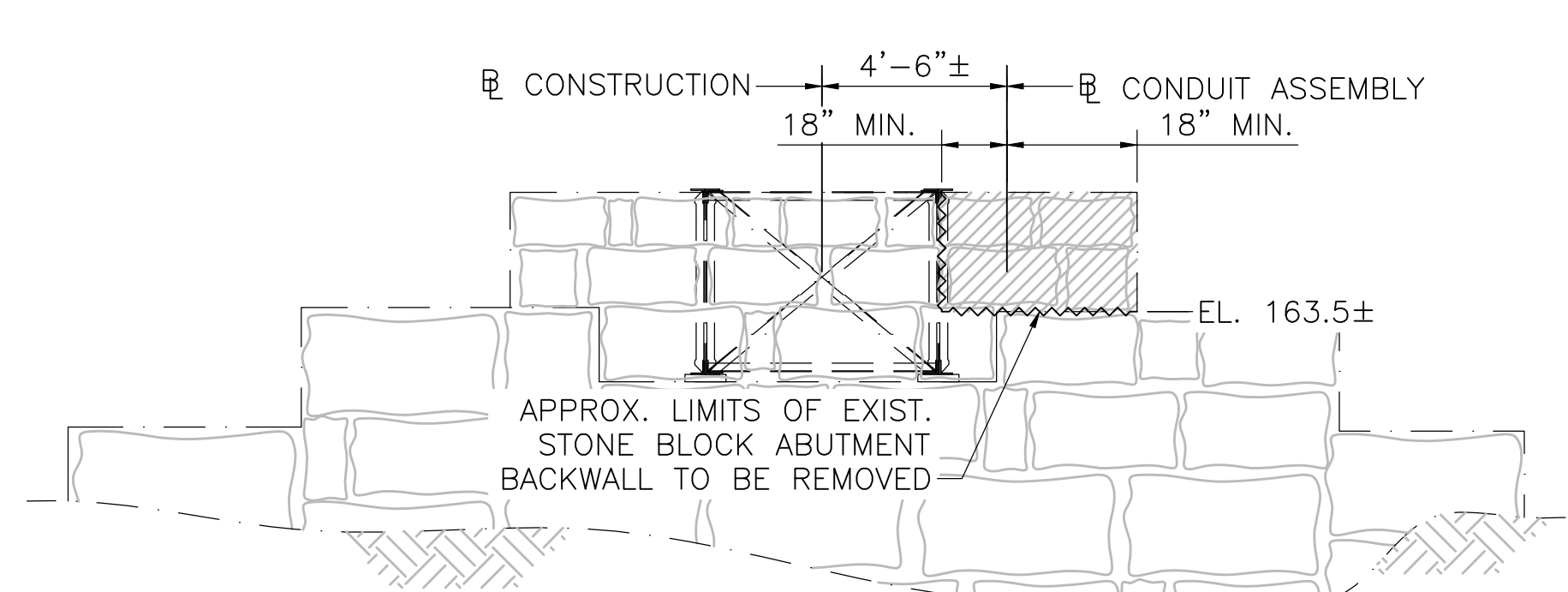
BRIDGE ELEVATION

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



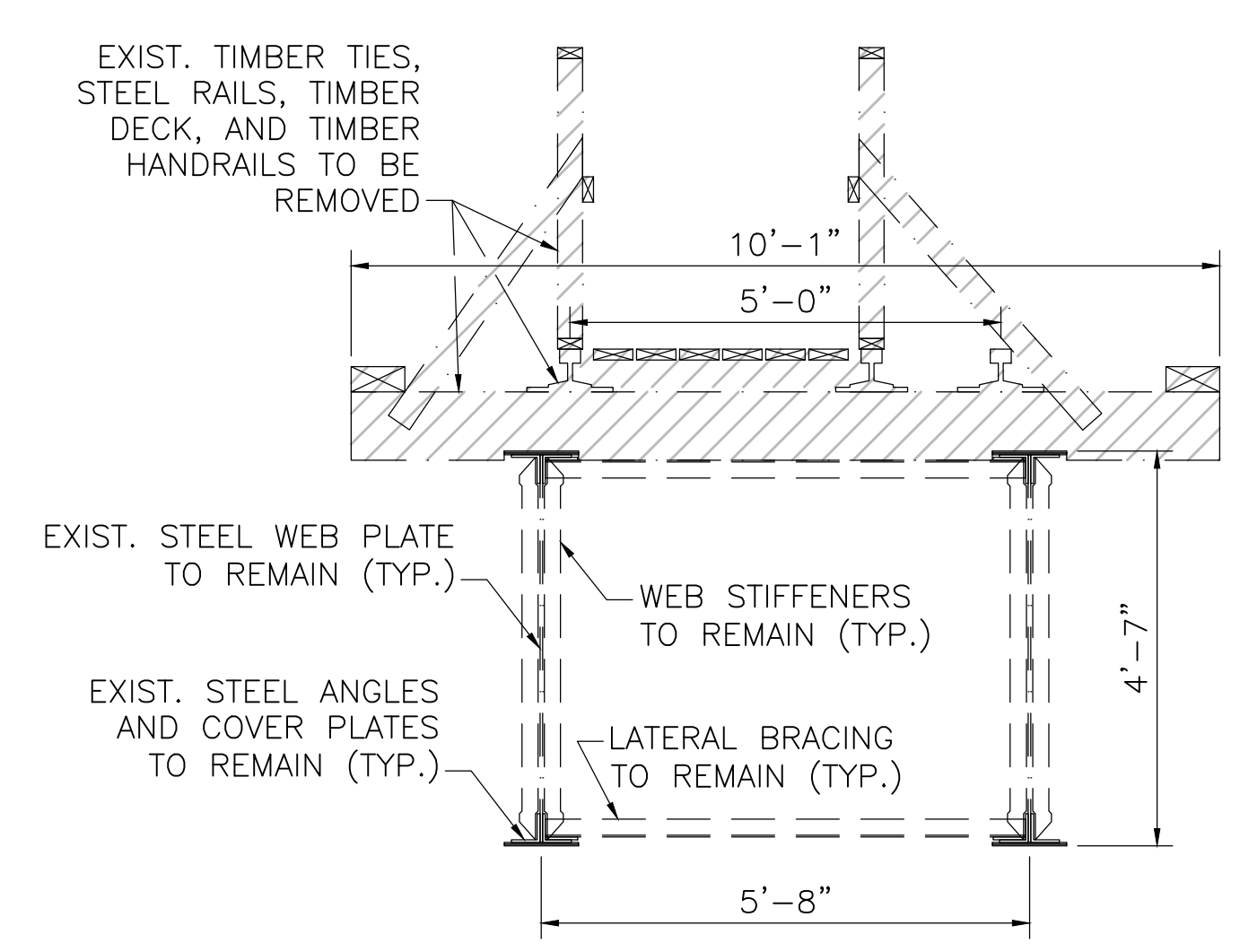
WEST ABUTMENT ELEVATION

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



EAST ABUTMENT ELEVATION

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

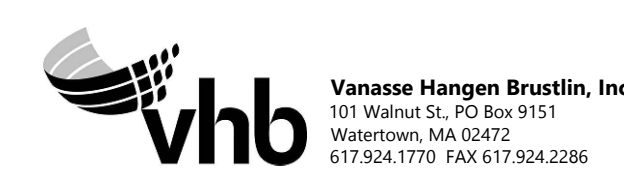


BRIDGE TRANSVERSE SECTION

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

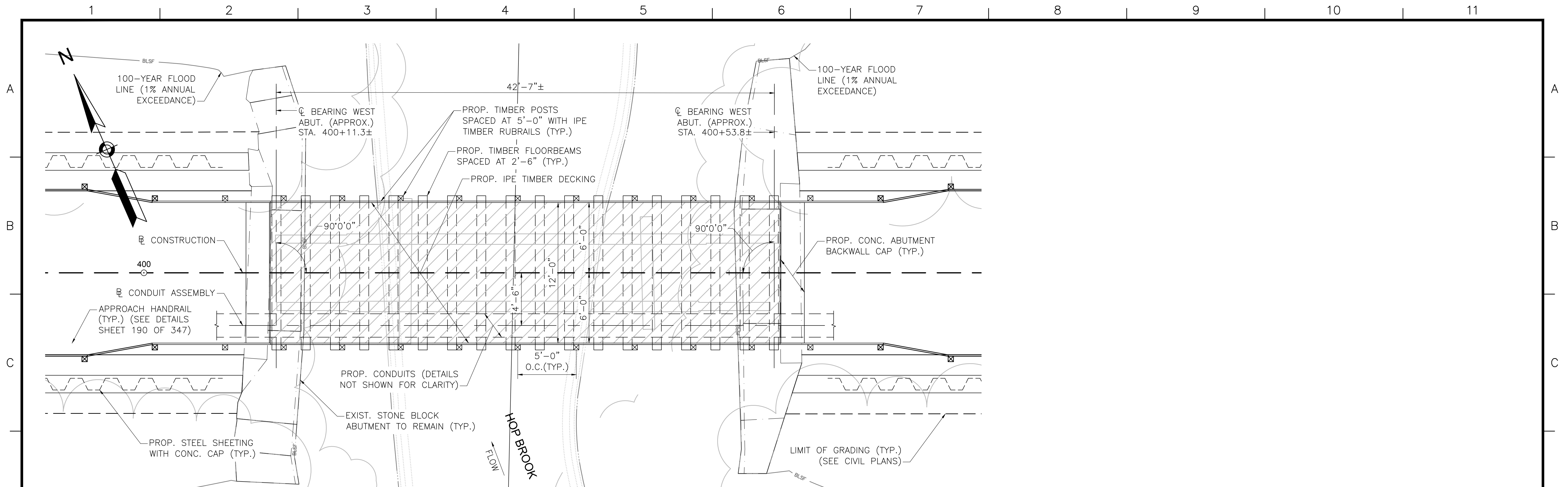
- ▽ — 1% ANNUAL EXCEEDANCE BASE FLOOD EL. 161.0
- ▽ — 10% ANNUAL EXCEEDANCE BASE FLOOD EL. 160.0
- ▽ — OWH EL. 158.5

NOTE: CONTRACTOR SHALL DESIGN AND INSTALL TEMPORARY PROTECTIVE SHIELDING DURING DEMOLITION OF BRIDGE AND AS NEEDED DURING CONSTRUCTION OF NEW BRIDGE TO PREVENT CONSTRUCTION DEBRIS FROM FALLING INTO THE WATER BODIES BELOW. SEE PROJECT SPECIFICATIONS AND PERMITTING DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.



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| EVERSOURCE | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | |
| BRIDGE S-31-017 (BRIDGE 128) - DEMOLITION PLAN | | | | | |
| PLAN 890F 348 | | | | | |
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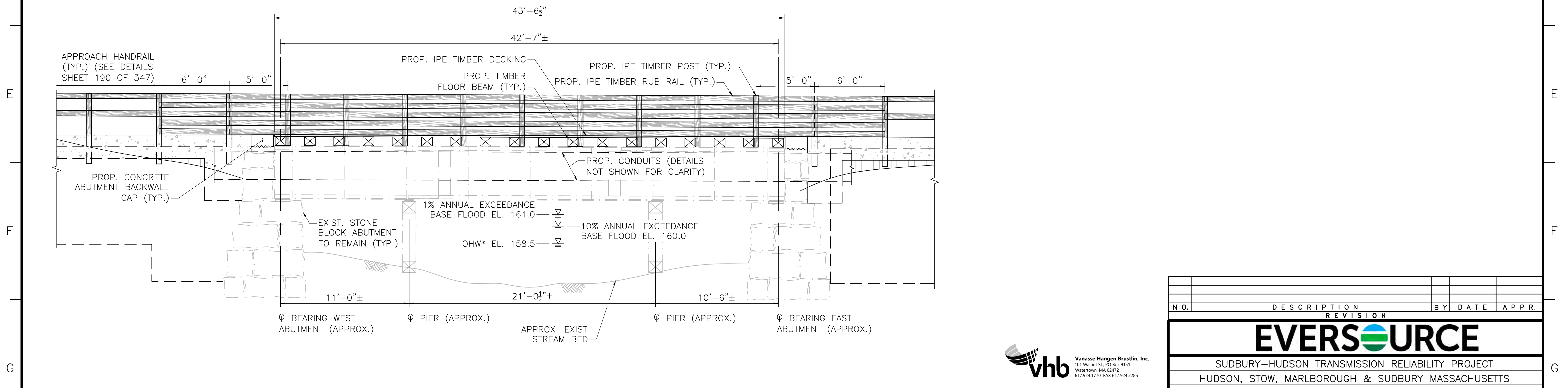
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BRIDGE 128 (HOP BROOK) PLAN

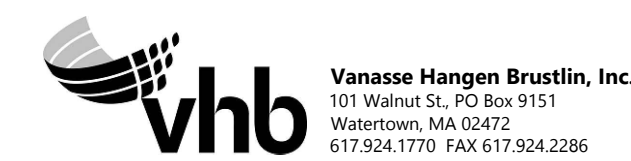
SCALE: 1/4"=1'-0"

*NOTE: OHW = ESTIMATED ORDINARY HIGH WATER



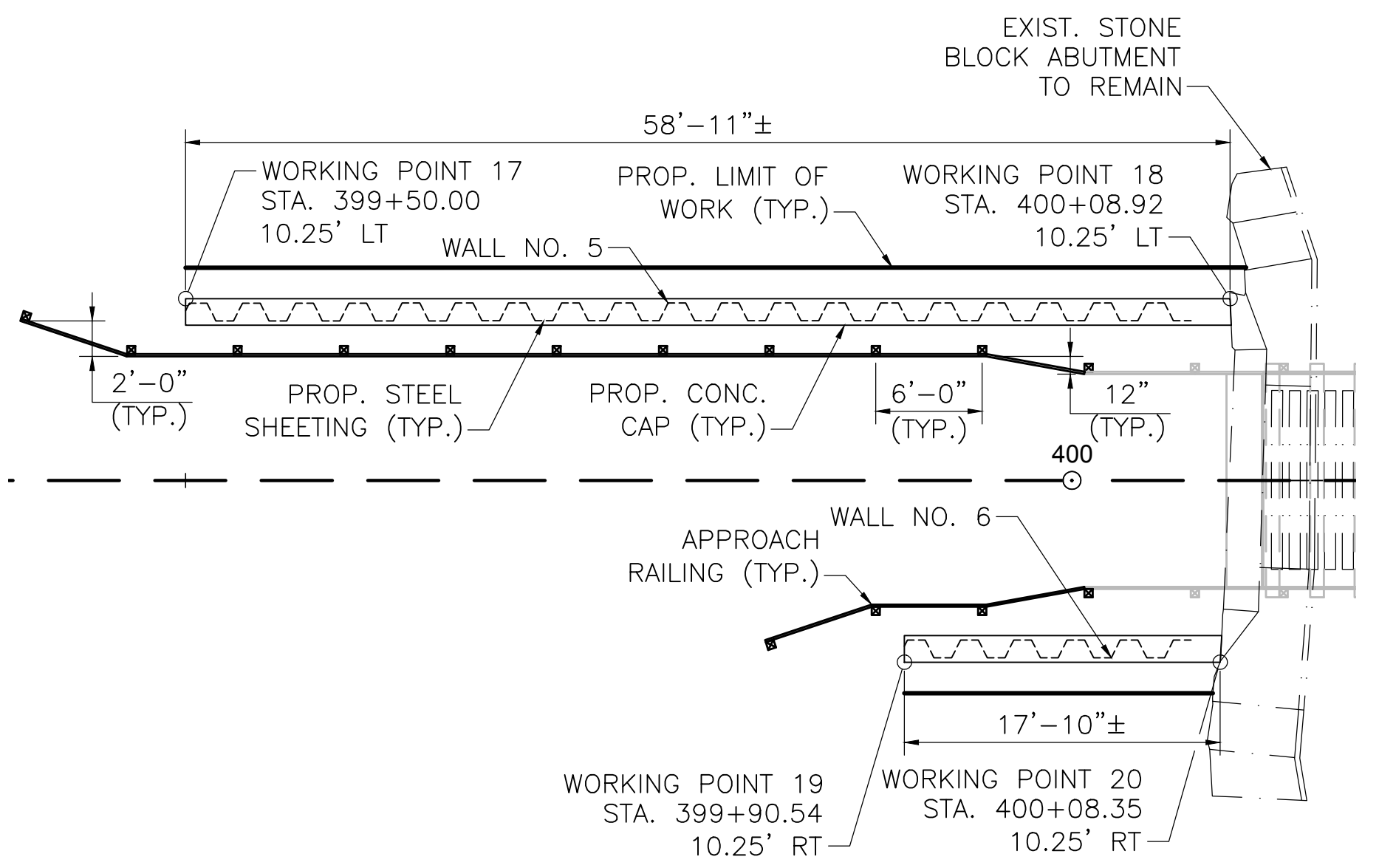
BRIDGE 128 (HOP BROOK) ELEVATION

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



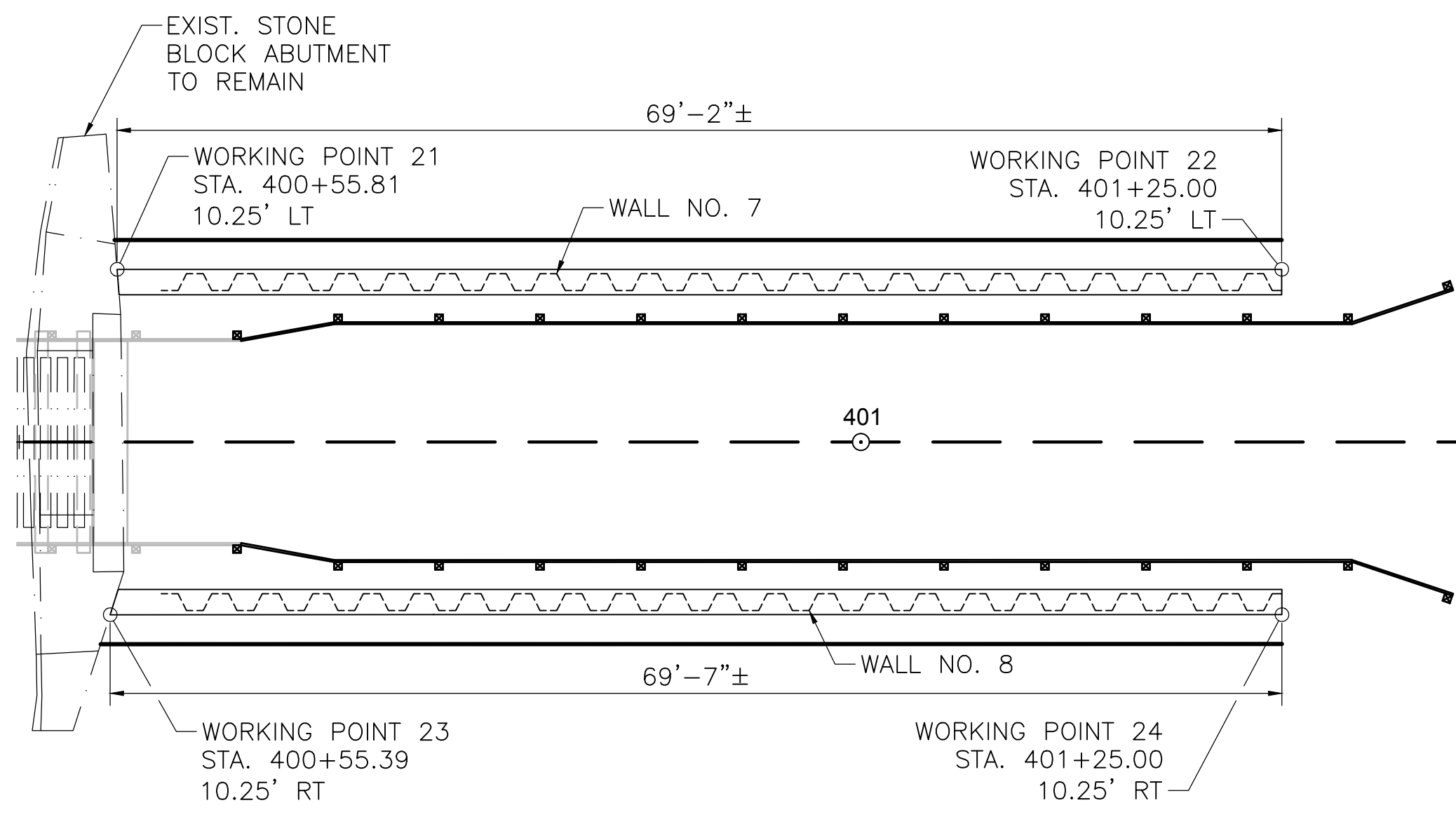
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| BRIDGE S-31-017 (BRIDGE 128) - PLAN & ELEVATION | | | | |
| PLANT 900F 348 | | | | |
| SCALE: unless noted 1"=4' | DATE OCT 2020 | DRAWN AMS | CHECKED SBK | APPR. KGK |
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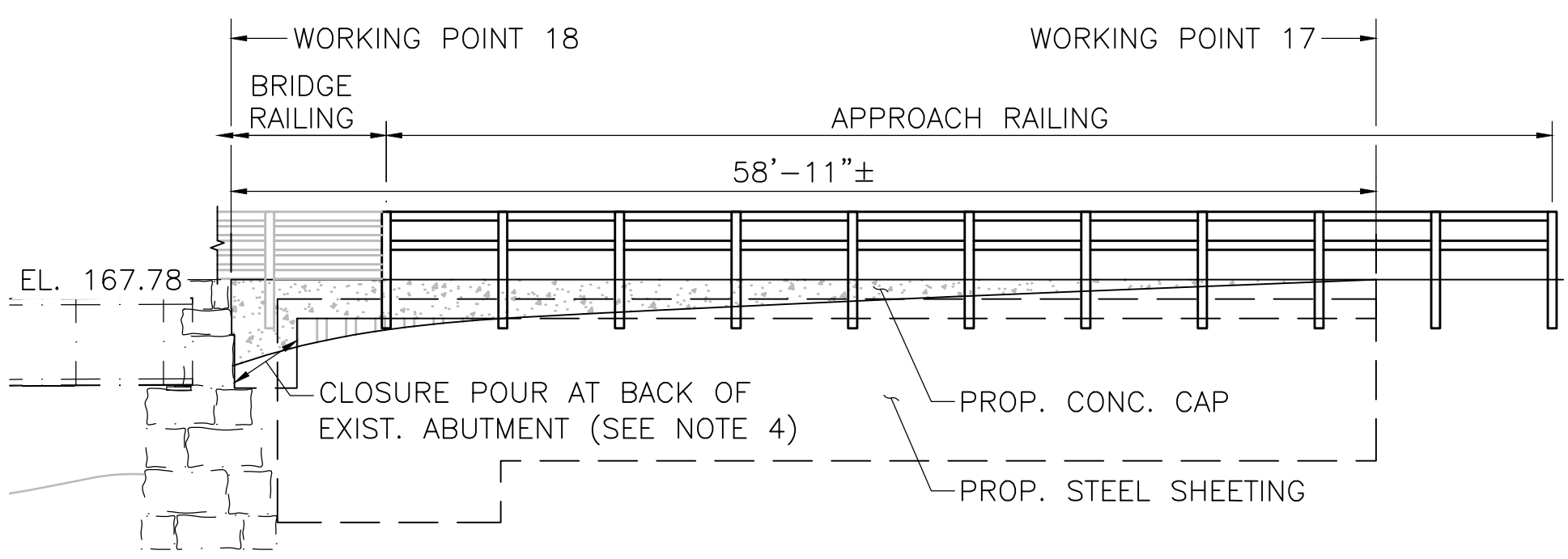
WALL 5 & 6 SHEETING PLAN (WEST APPROACH)

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



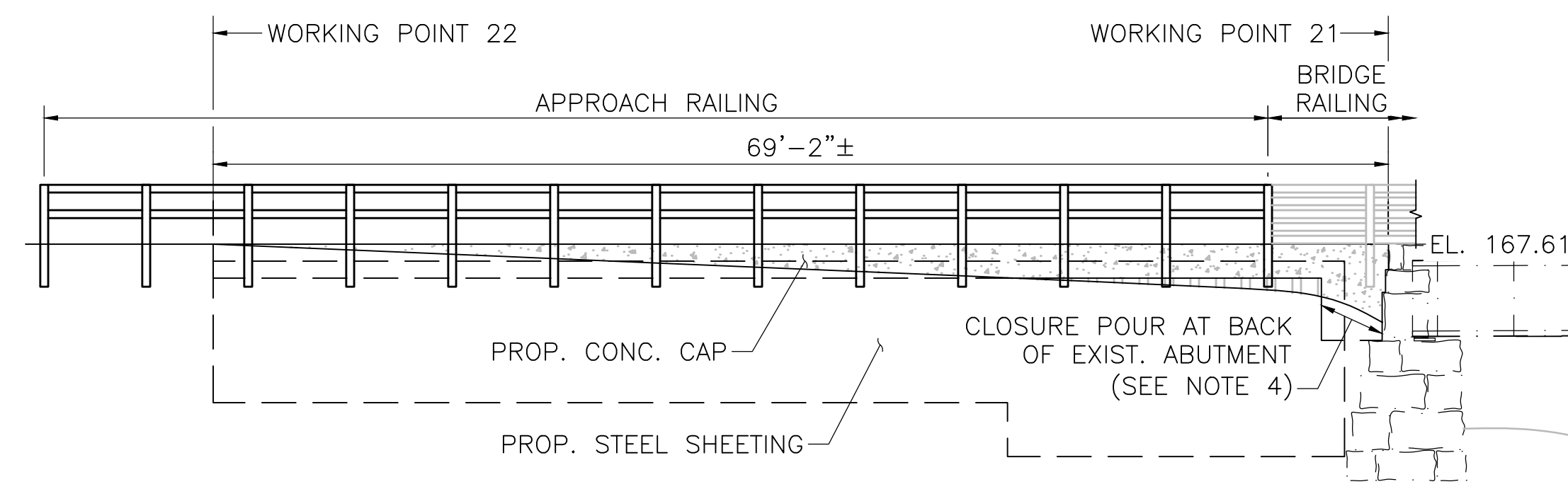
WALL 7 & 8 SHEETING PLAN (EAST APPROACH)

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



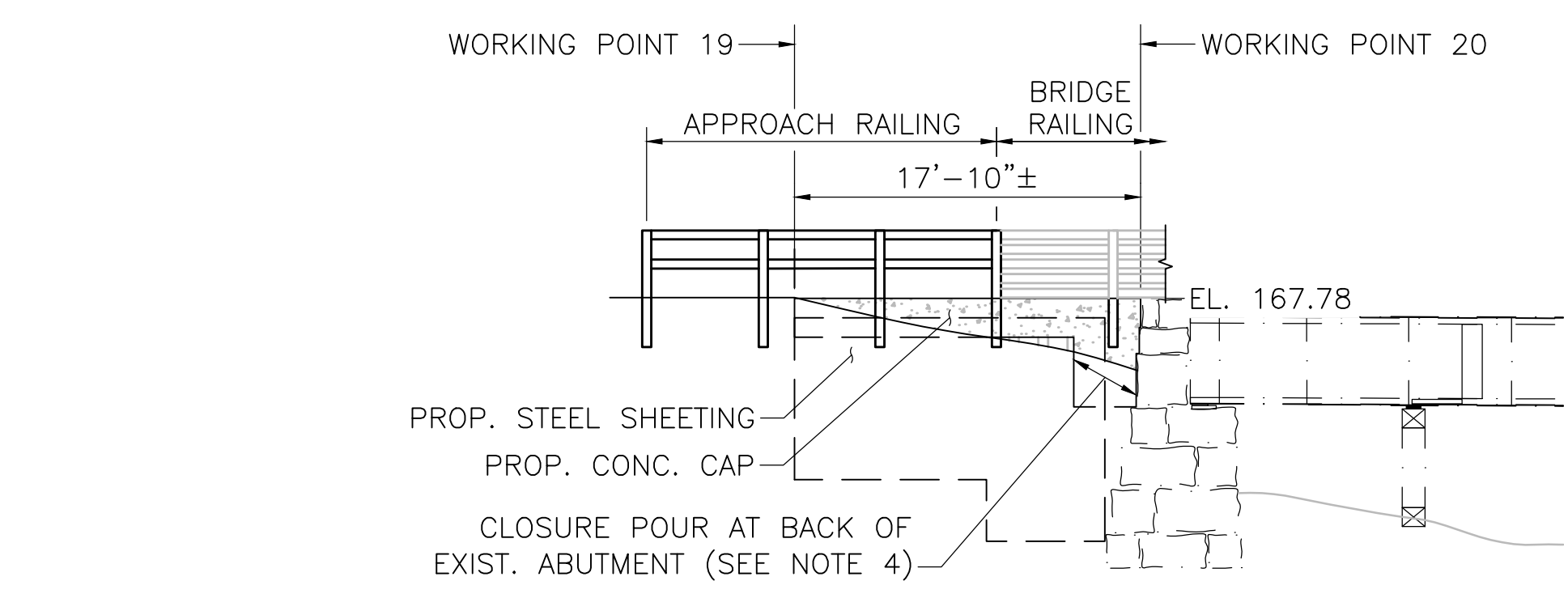
WALL 5 ELEVATION (WEST APPROACH NORTH SHEETING WALL)

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



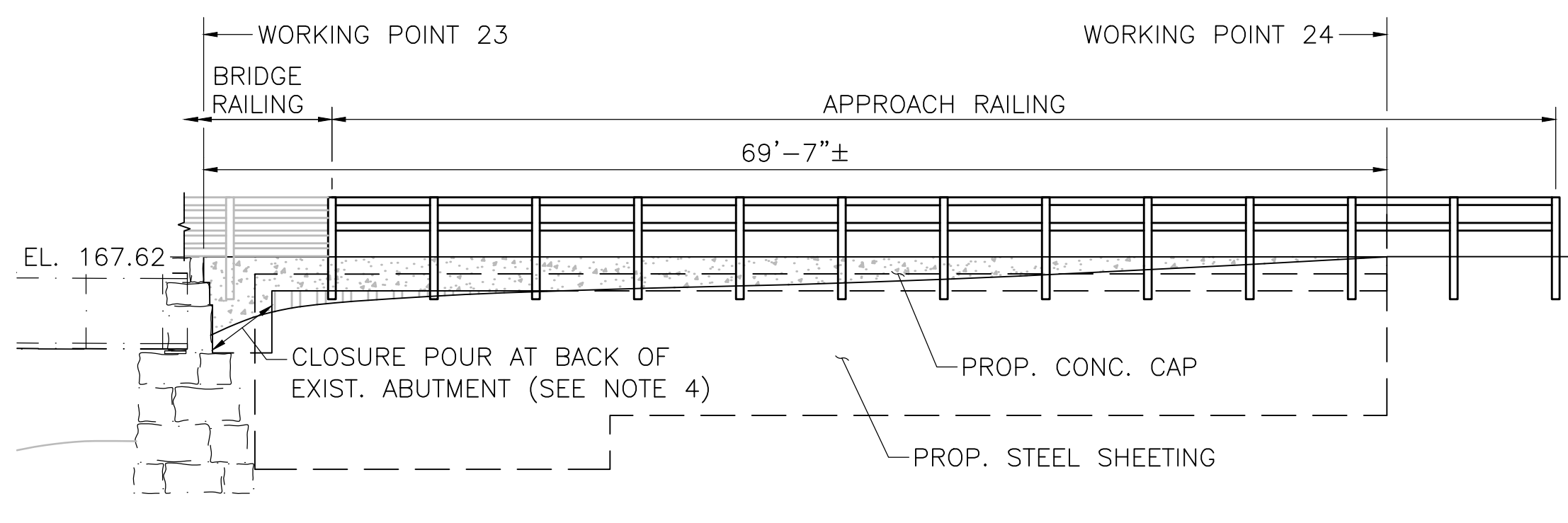
WALL 7 (EAST APPROACH NORTH SHEETING WALL)

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



WALL 6 ELEVATION (WEST APPROACH SOUTH SHEETING WALL)

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

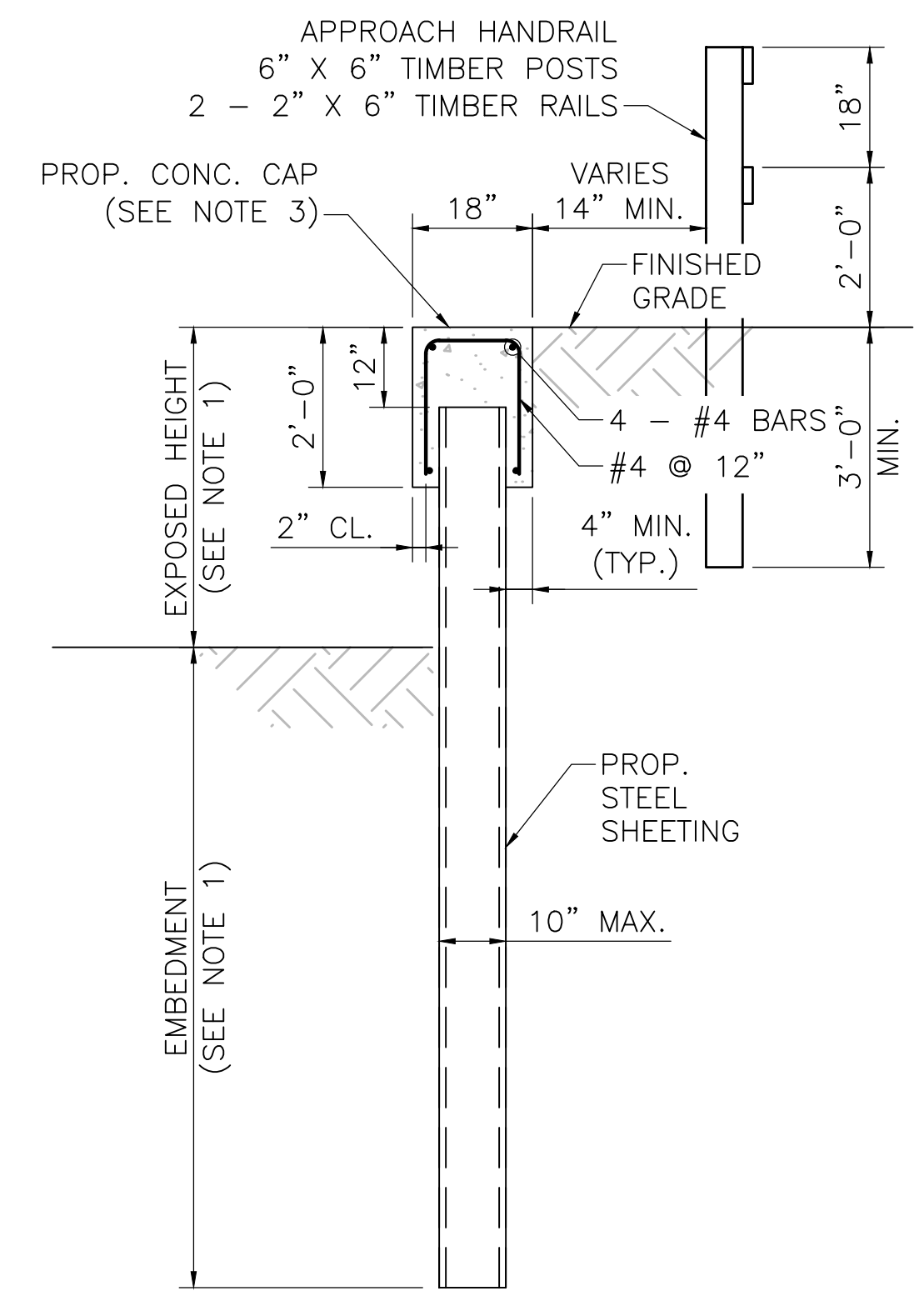


WALL 8 ELEVATION (EAST APPROACH SOUTH SHEETING WALL)

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

NOTES:

1. WALL EXPOSED HEIGHT TO BE VERIFIED IN FIELD. SHEETING EMBEDMENT DEPTH VARIES WITH WALL EXPOSED HEIGHT. SEE SHEETING EMBEDMENT TABLE BELOW.
2. SHEETING SECTION SHALL BE SELECTED BY CONTRACTOR. STEEL SHEETING SHALL BE GRADE 50 STEEL IN ACCORDANCE WITH ASTM A328 WITH A SECTION MODULUS (S_x) OF 7.08 IN³ PER FOOT.
3. CONC. CAP SHALL BE 4000 PSI, 3/4", 610 CEMENT CONCRETE. REINFORCING STEEL SHALL BE GRADE 60 EPOXY COATED STEEL IN ACCORDANCE WITH AASHTO M31. CONSTRUCTION JOINTS IN CAP SHALL BE SPACED AT 24'-0" MAX. CONTRACTOR SHALL SUBMIT JOINT LAYOUT PLAN TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINT.
4. CONTRACTOR SHALL DETERMINE LIMITS OF EXISTING STONE BLOCK ABUTMENTS PRIOR TO DRIVING SHEETING. SHEETING SHALL BE DRIVEN AS CLOSE TO THE BACK OF THE EXISTING ABUTMENTS AS PRACTICAL. WORKING POINT STATION/OFFSET AT THESE LOCATIONS (3, 6, 7, AND 10) IS SUBJECT TO CHANGE BASED ON CONDITIONS ENCOUNTERED IN THE FIELD. CONCRETE CAP SHALL BE EXTENDED AS NEEDED TO FORM A CLOSURE POUR BETWEEN END OF SHEETING AND BACK EXISTING ABUTMENT. HEIGHT OF CAP SHALL BE INCREASED AT CLOSURE POUR AS NEEDED TO MAINTAIN REQUIRED GRADE SEPARATION.

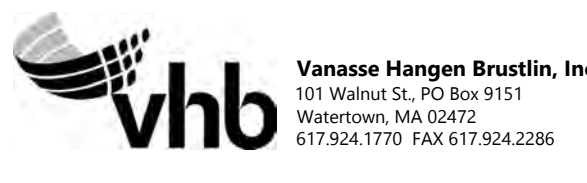


TYPICAL SHEETING SECTION

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

| SHEETING EMBEDMENT TABLE | |
|--------------------------|---------------|
| EXPOSED HEIGHT | EMBEDMENT |
| 2'-0" (MAX.) | 7'-4" (MIN.) |
| 3'-0" (MAX.) | 9'-5" (MIN.) |
| 4'-0" (MAX.) | 11'-6" (MIN.) |
| 5'-0" (MAX.) | 13'-7" (MIN.) |
| 6'-0" (MAX.) | 15'-7" (MIN.) |
| 7'-0" (MAX.) | 17'-7" (MIN.) |

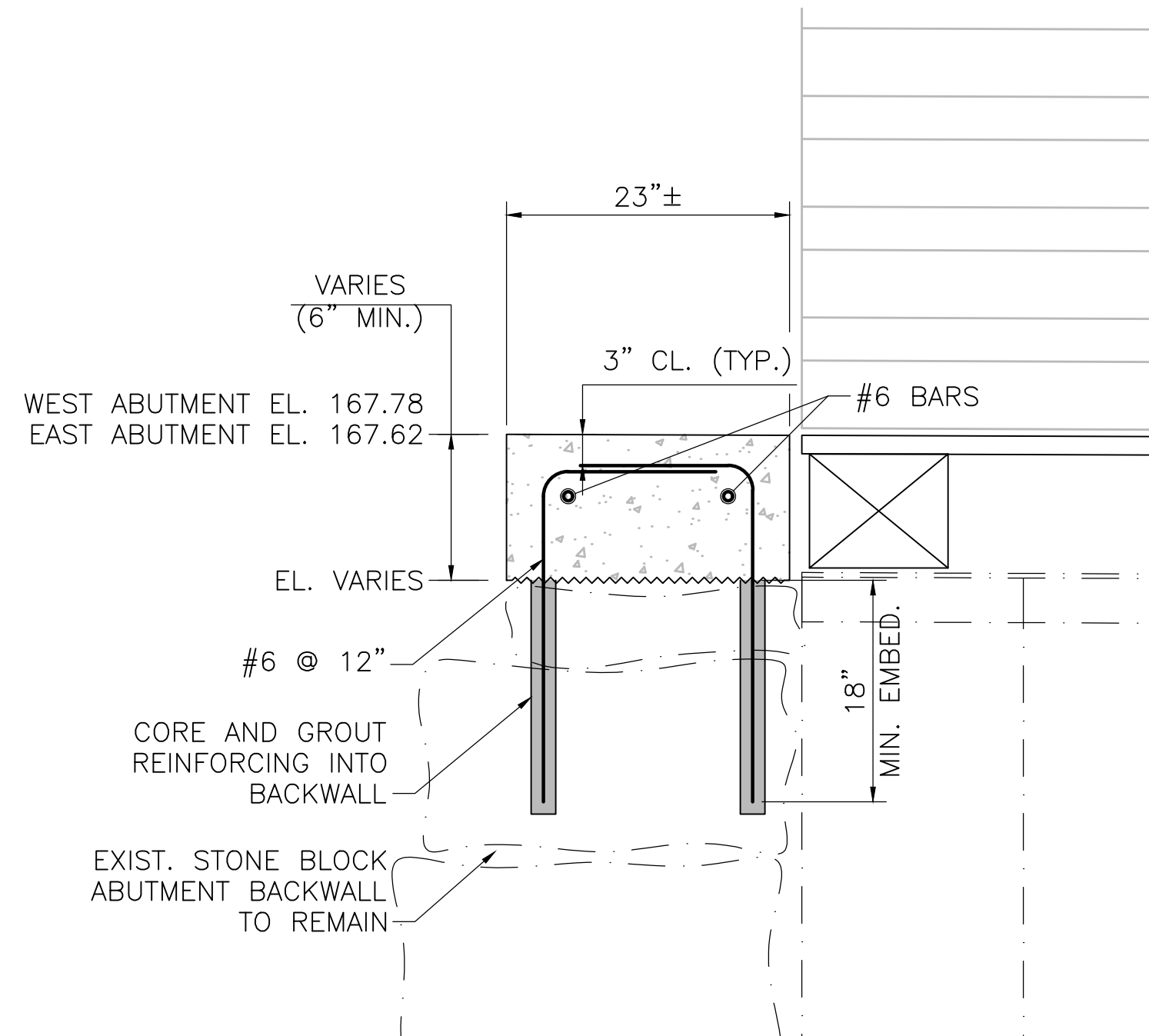
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| NO. | DESCRIPTION | BY | DATE | APPR. |
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| BRIDGE H-25-017 (BRIDGE 128) - SHEETING PLAN | | | | |
| PLAN 91 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN AMS | CHK'D. SBK | APPR. KGK |
| DRAWING NO. | REV. | | | |



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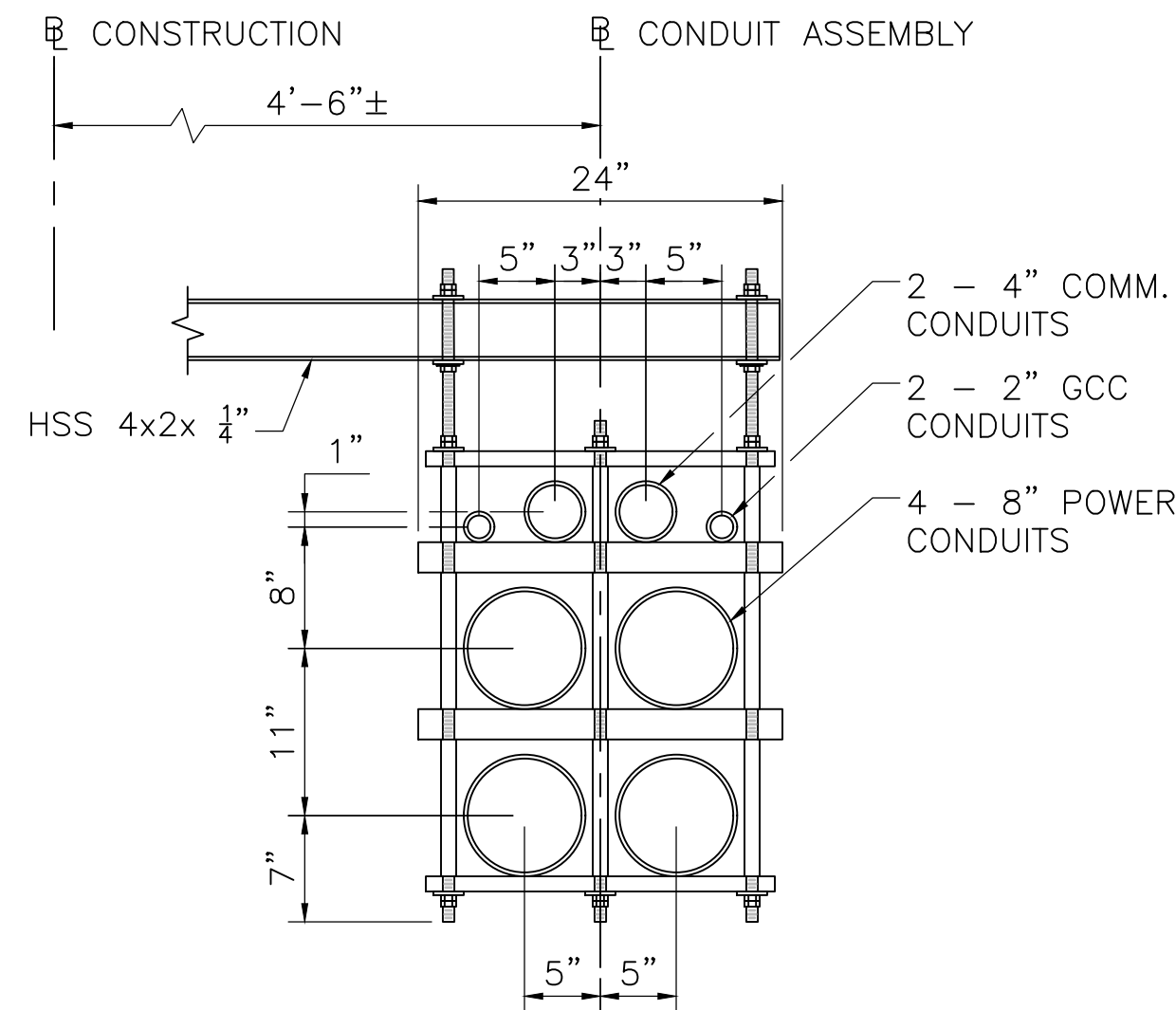
NOTES:

- EXIST. STEEL GIRDERS CAN SUPPORT TEMPORARY H20 LOADING DURING CONSTRUCTION. TIMBER DECKING IS DESIGNED FOR H10 LOADING WITHOUT IMPACT AND 90 PSF PEDESTRIAN LOADING, WHICHEVER CONTROLS. CONTRACTOR SHALL DESIGN TEMPORARY DECKING IF BRIDGE IS INTENDED TO BE USED FOR CONSTRUCTION VEHICLES.



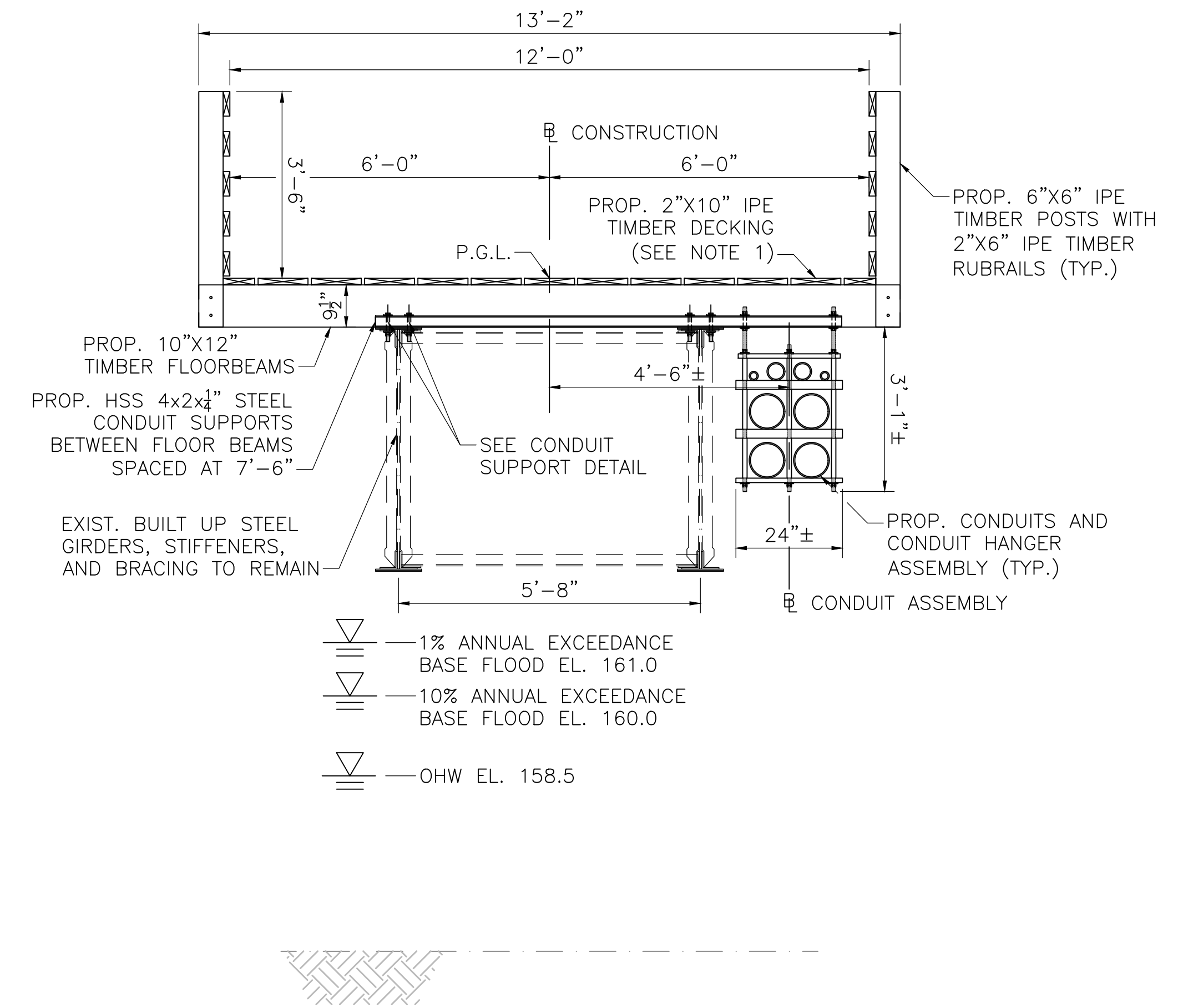
BACKWALL CAP DETAIL

SCALE: 1"=1'-0"



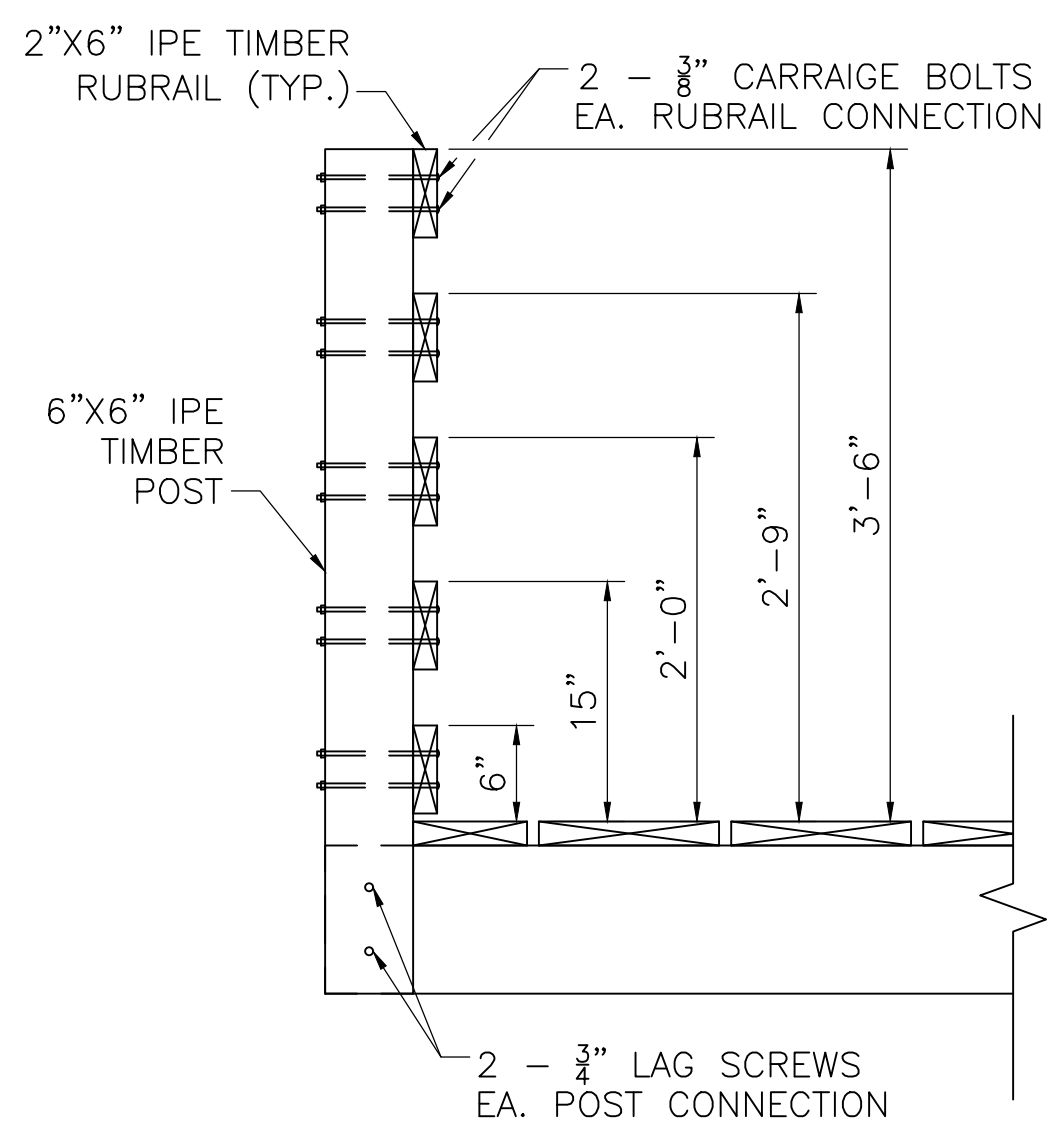
CONDUIT ASSEMBLY DETAIL

SCALE: 1"=1'-0"



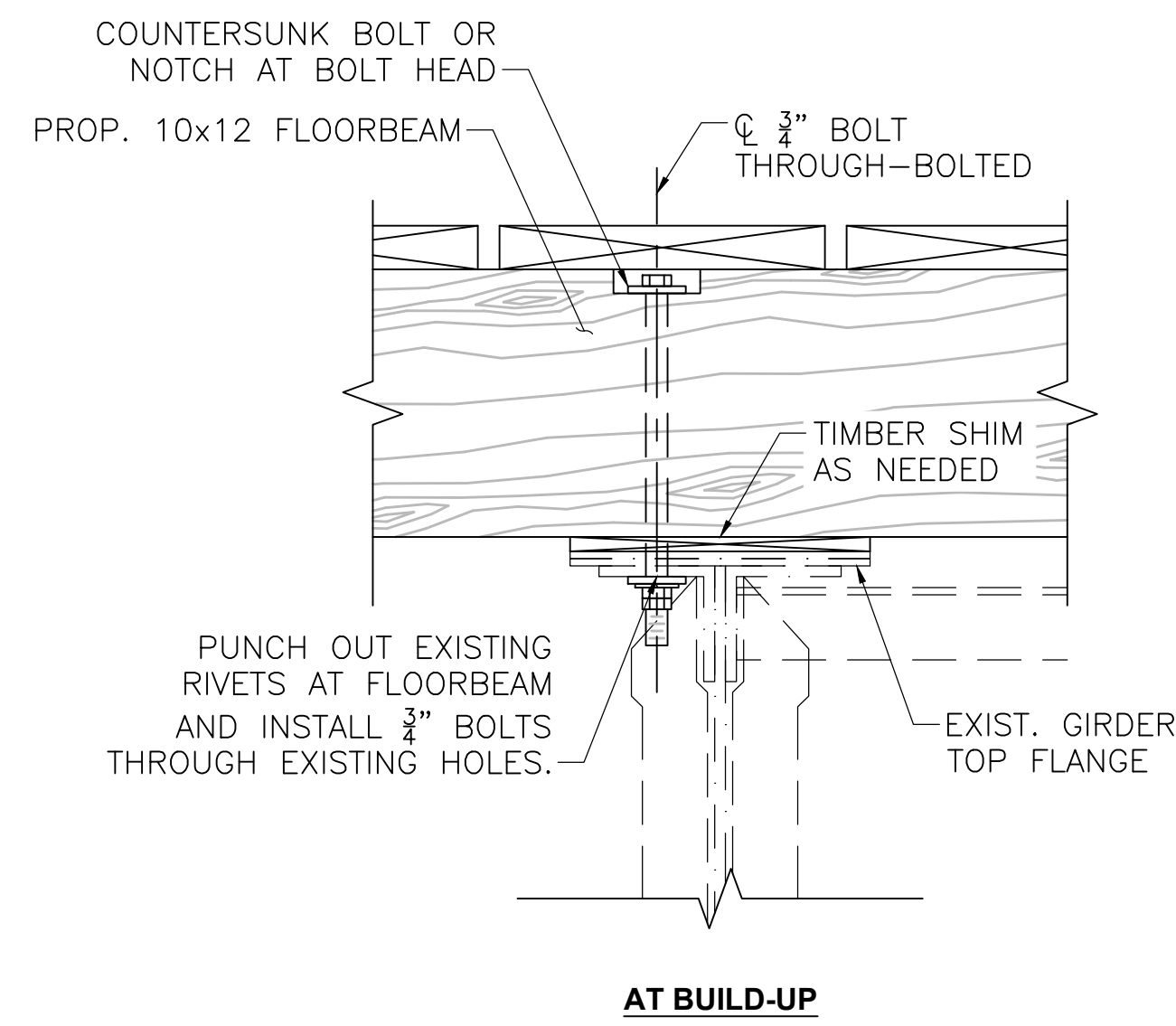
BRIDGE TRANSVERSE SECTION

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



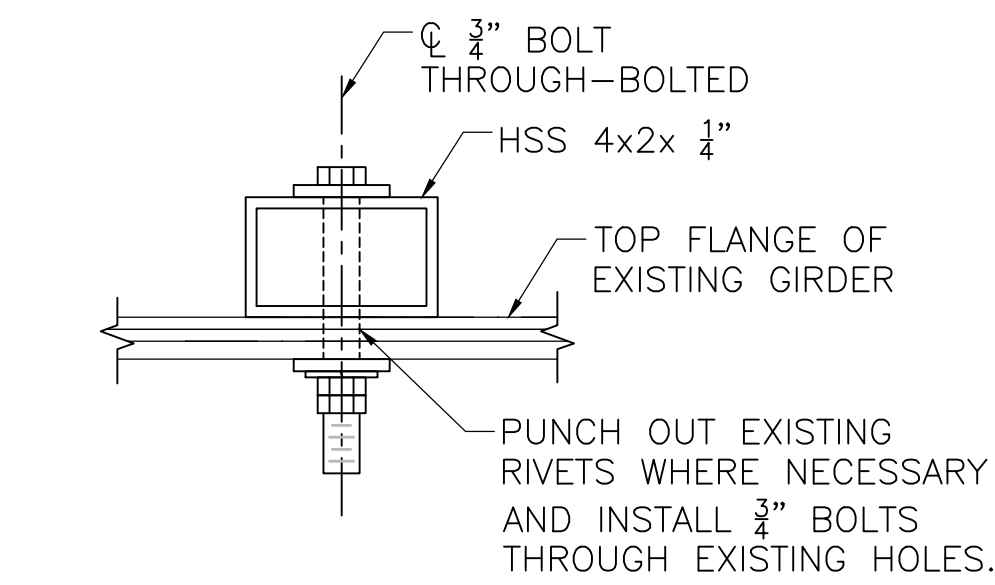
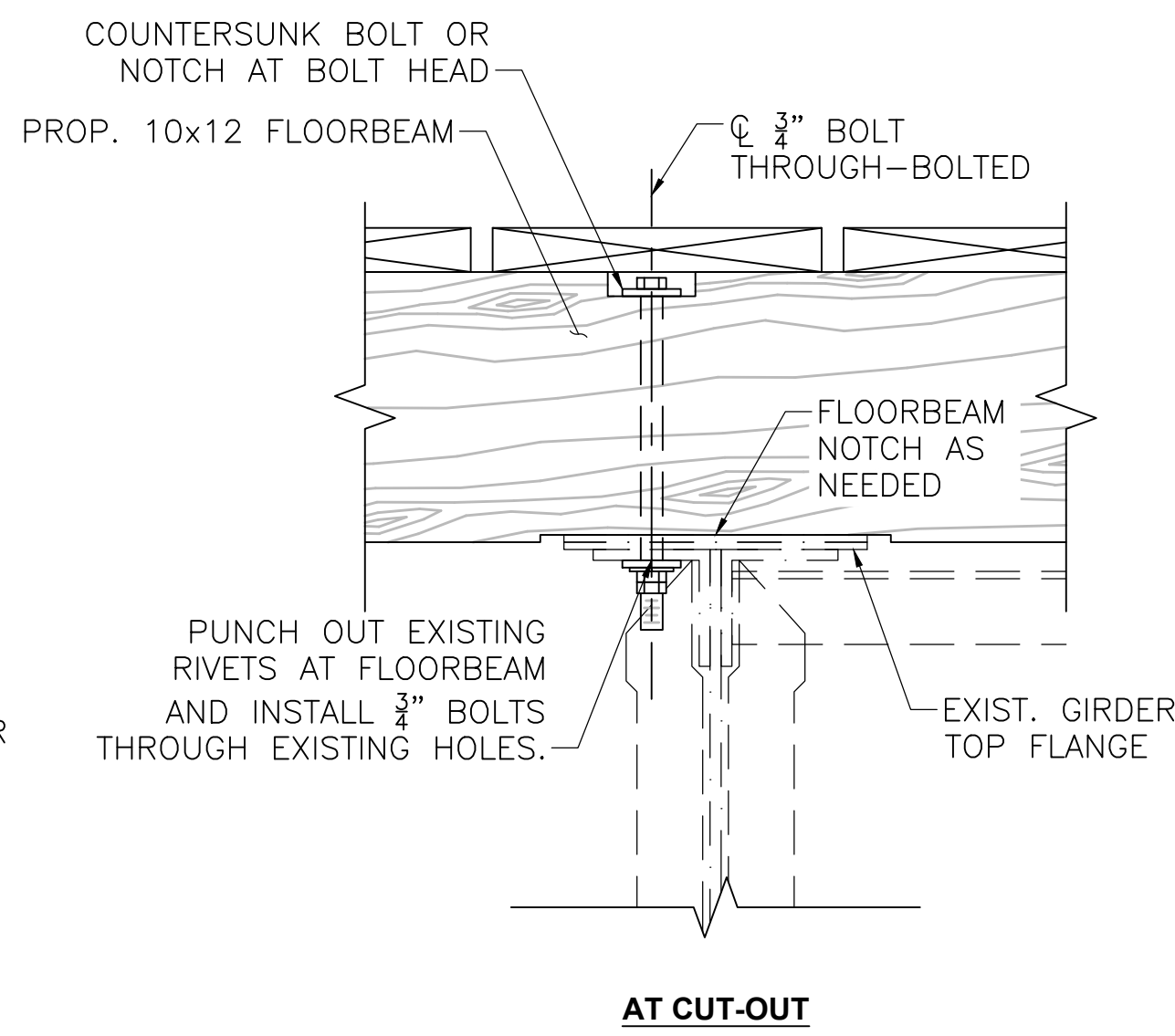
RAILING CONNECTION DETAIL

SCALE: 1"=1'-0"



FLOORBEAM CONNECTION DETAIL

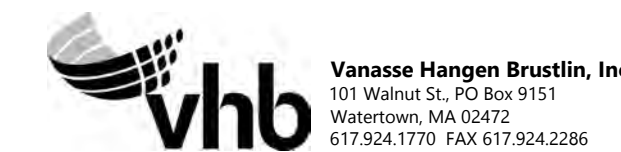
SCALE: 2"=1'-0"



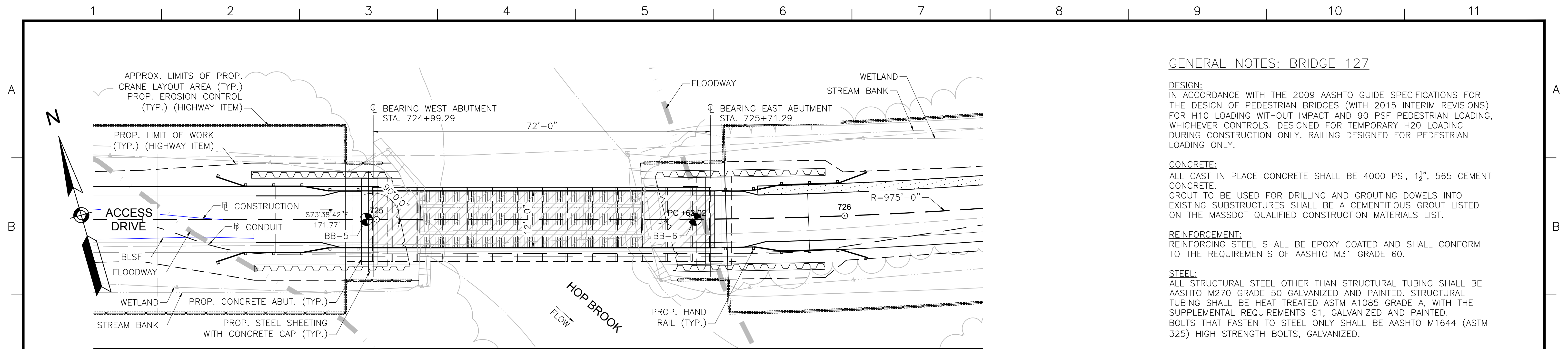
CONDUIT SUPPORT DETAIL

SCALE: 3"=1'-0"

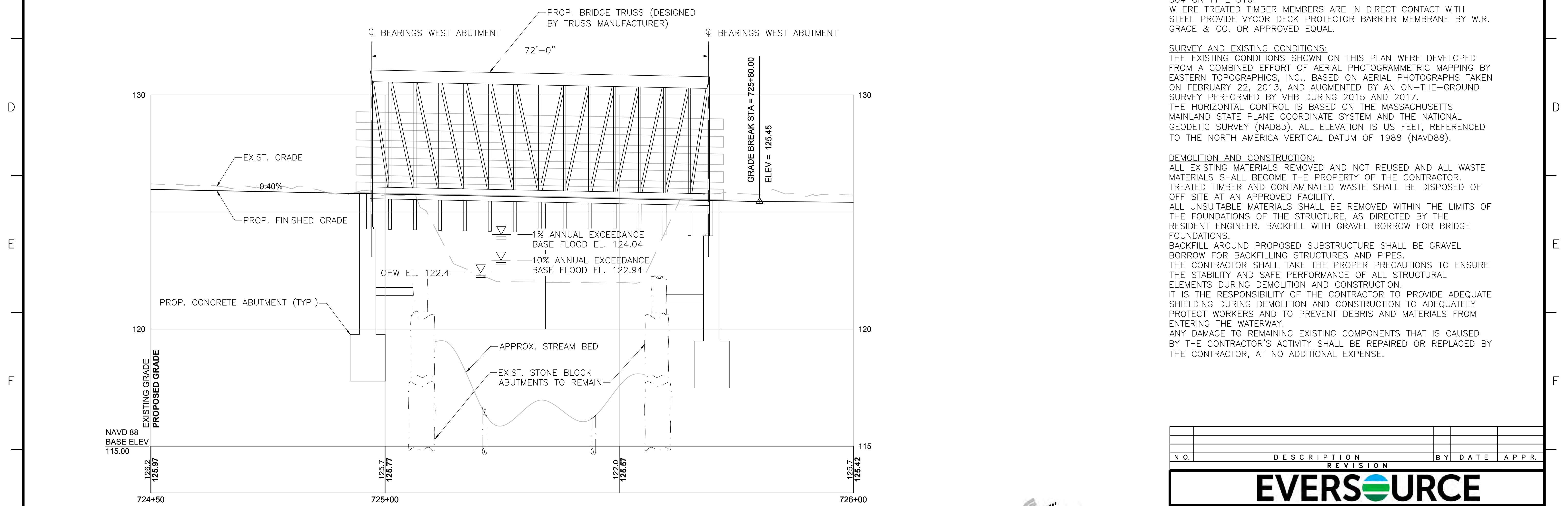
| REVISION | | | |
|---|-------------|-------|-------|
| N.O. | DESCRIPTION | BY | DATE |
| EVERSOURCE | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | |
| BRIDGE S-31-017 (BRIDGE 128) - SECTION & DETAILS | | | |
| PLAN 1920F 348 | | | |
| SCALE: unless noted | DATE | DRAWN | CHK'D |
| VARIABLES | OCT 2020 | AMS | SBK |
| | | | APPR. |
| | | | KGK |
| DRAWING NO. | REV. | | |
| | | | |



1 2 3 4 5 6 7 8 9 10 11



BRIDGE KEY PLAN
SCALE: 1"=10'-0"



PROFILE - ACCESS DRIVE
HORIZONTAL SCALE: 1"=10'-0"
VERTICAL SCALE: 1"=2'-0"

GENERAL NOTES: BRIDGE 127

DESIGN:
IN ACCORDANCE WITH THE 2009 AASHTO GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES (WITH 2015 INTERIM REVISIONS) FOR H10 LOADING WITHOUT IMPACT AND 90 PSF PEDESTRIAN LOADING, WHICHEVER CONTROLS. DESIGNED FOR TEMPORARY H20 LOADING DURING CONSTRUCTION ONLY. RAILING DESIGNED FOR PEDESTRIAN LOADING ONLY.

CONCRETE:
ALL CAST IN PLACE CONCRETE SHALL BE 4000 PSI, 1 1/2", 565 CEMENT CONCRETE.
GROUT TO BE USED FOR DRILLING AND GROUTING DOWELS INTO EXISTING SUBSTRUCTURES SHALL BE A CEMENTITIOUS GROUT LISTED ON THE MASSDOT QUALIFIED CONSTRUCTION MATERIALS LIST.

REINFORCEMENT:
REINFORCING STEEL SHALL BE EPOXY COATED AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60.

STEEL:
ALL STRUCTURAL STEEL OTHER THAN STRUCTURAL TUBING SHALL BE AASHTO M270 GRADE 50 GALVANIZED AND PAINTED. STRUCTURAL TUBING SHALL BE HEAT TREATED ASTM A1085 GRADE A, WITH THE SUPPLEMENTAL REQUIREMENTS S1, GALVANIZED AND PAINTED. BOLTS THAT FASTEN TO STEEL ONLY SHALL BE AASHTO M1644 (ASTM 325) HIGH STRENGTH BOLTS, GALVANIZED.

TIMBER:
DECK PLANKING AND RAILINGS: IPE, F_b min = 22,000 psi.
ALL NAILS, SCREWS, BOLTS, WASHERS, CONNECTORS, FASTENERS AND HARDWARE FOR WOOD CONNECTIONS SHALL BE STAINLESS STEEL TYPE 304 OR TYPE 316.
WHERE TREATED TIMBER MEMBERS ARE IN DIRECT CONTACT WITH STEEL PROVIDE VYCOR DECK PROTECTOR BARRIER MEMBRANE BY W.R. GRACE & CO. OR APPROVED EQUAL.

SURVEY AND EXISTING CONDITIONS:
THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE DEVELOPED FROM A COMBINED EFFORT OF AERIAL PHOTOGRAMMETRIC MAPPING BY EASTERN TOPOGRAPHICS, INC., BASED ON AERIAL PHOTOGRAPHS TAKEN ON FEBRUARY 22, 2013, AND AUGMENTED BY AN ON-THE-GROUND SURVEY PERFORMED BY VHB DURING 2015 AND 2017.
THE HORIZONTAL CONTROL IS BASED ON THE MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM AND THE NATIONAL GEODETIC SURVEY (NAD83). ALL ELEVATION IS US FEET, REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88).

DEMOLITION AND CONSTRUCTION:
ALL EXISTING MATERIALS REMOVED AND NOT REUSED AND ALL WASTE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. TREATED TIMBER AND CONTAMINATED WASTE SHALL BE DISPOSED OF OFF SITE AT AN APPROVED FACILITY.
ALL UNSUITABLE MATERIALS SHALL BE REMOVED WITHIN THE LIMITS OF THE FOUNDATIONS OF THE STRUCTURE, AS DIRECTED BY THE RESIDENT ENGINEER. BACKFILL WITH GRAVEL BORROW FOR BRIDGE FOUNDATIONS.
BACKFILL AROUND PROPOSED SUBSTRUCTURE SHALL BE GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES.
THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE THE STABILITY AND SAFE PERFORMANCE OF ALL STRUCTURAL ELEMENTS DURING DEMOLITION AND CONSTRUCTION.
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE SHIELDING DURING DEMOLITION AND CONSTRUCTION TO ADEQUATELY PROTECT WORKERS AND TO PREVENT DEBRIS AND MATERIALS FROM ENTERING THE WATERWAY.
ANY DAMAGE TO REMAINING EXISTING COMPONENTS THAT IS CAUSED BY THE CONTRACTOR'S ACTIVITY SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AT NO ADDITIONAL EXPENSE.



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|-------------|----------------------------|------|-------------------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| BRIDGE S-31-016 (BRIDGE 127) - KEY PLAN & PROFILE | | | | |
| PLAN 193 OF 348 | | | | |
| SCALE: unless noted H: 1"=10' V: 1"=2' | | DATE DRAWN OCT 2020 AMS | | CHK'D. APPR. SBK KGK |
| DRAWING NO. | | REV. | | |

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BORING BB-5
 STATION: 724+98
 OFFSET: 0.0' LT
 N: 2956151.0
 E: 679475.0
 GROUND ELEVATION: 125.0'
 (SEE NOTE 10)

BORING BB-5 (CONTINUED)

BORING NOTES:

1. LOCATION OF BORINGS SHOWN ON THE KEY PLAN THUS:
2. BORINGS ARE TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
3. WATER LEVELS SHOWN ON THE BORING LOGS ARE ASSUMED BASED ON BORINGS PERFORMED FOR THE EXISTING BRIDGE, AS NOTED IN THE GEOTECHNICAL REPORT DATED DECEMBER 2018.
4. FIGURES IN COLUMNS INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 1/8" I.D. SPLIT SPOON SAMPLER 6" USING A 140 POUND WEIGHT FALLING 30".
5. ALL BORINGS WERE MADE IN OCTOBER OF 2018.
6. BORINGS WERE MADE BY GEOLOGIC EARTH EXPLORATION, INC., 7 SHERWOOD DR., NORFOLK, MA 02056.
7. THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS USED THROUGHOUT.
8. BORING LOCATIONS AND ELEVATIONS ARE APPROXIMATE ONLY.

| LGCI | | BORING LOG | | B-BB-5 | |
|--|--|--|--|---|--|
| 100 Chelmsford Road, Suite 2 Dillence, MA 01932 Telephone: (978) 330-5912 Fax: (978) 330-5096 | | PROJECT NAME: Proposed Hop Brook Bridge | | PAGE 1 OF 2 | |
| CLIENT: Vanasse Hangen Brustlin, Inc. | | PROJECT LOCATION: Sudbury, Massachusetts | | LGCI PROJECT NUMBER: 1836 | |
| DATE STARTED: 10/08/18 | | DATE COMPLETED: 10/10/18 | | DRILLING SUBCONTRACTOR: Geosearch, Inc. | |
| BORING LOCATION: Western side of Hop Brook Bridge | | DRILLING FOREMAN: Kenny Bylund | | TOTAL DEPTH: 54 ft | |
| COORDINATES: N/A | | DRILLING METHOD: Drive and wash with 4-inch casing, then 3" casing | | WEATHER: 70% / Partly Cloudy | |
| SURFACE EL.: 125 ft. (see note 1) | | DRILL RIG TYPE/MODEL: CME 55 LC ATV | | GROUNDWATER LEVELS: | |
| WEATHER: 70% / Partly Cloudy | | HAMMER TYPE: Automatic | | DURING DRILLING: 4.0 ft / El. 121.0 ft. measured on 10/9/18 | |
| AT END OF DRILLING: 3.5 ft / El. 121.5 ft. | | HAMMER WEIGHT: 140 lb. | | OTHER: 3.2 ft / El. 121.8 ft. measured on 10/10/18 | |
| LOGGED BY: TS / KD | | CORE BARREL SIZE: NA | | CHECKED BY: NB | |

| Depth (ft) | Sample Number | Blow Counts (N Value) | Pen./Rec. (ft) | Strata | Material Description |
|------------|---------------|-----------------------|----------------|--|--|
| 0 | S1 | 4-3-5-4 (8) | 24/24 | Forest Mat Fill | S1 - Top 2" Forest material |
| 2 | S2 | 3-1-1-1 (2) | 24/13 | Swamp Deposits | Bot. 22": Silty SAND (SM), fine to medium, trace coarse, ~20% fines, 5-10% fine subangular gravel, trace organic fines, trace roots, brown, moist |
| 4 | S3 | 3-1-3-3 (4) | 24/14 | | S2 - Silty SAND (SM), fine, trace medium, 25-30% fines, trace fine subangular gravel, trace organic fines, trace roots, trace wood, dark brown, wet |
| 6 | S4 | 3-2-4-4 (6) | 24/11 | | S3 - Similar to S2, ~35% fines |
| 8 | S5 | 4-2-5-5 (7) | 24/15 | | S4 - Similar to S2, 35-40% fines |
| 10 | S6 | 3-3-6-7 (9) | 24/15 | | S5 - Similar to S2, ~25% fines |
| 12 | S7 | 3-1-1-3 (2) | 24/11 | | S6 - Top 12": Silty SAND (SM), fine to medium, trace coarse, ~15% fines, trace fine subangular gravel, trace organic fines, trace roots, dark brown, wet |
| 14 | S8 | 0-3-6-16 (9) | 24/13 | | Bot. 3": Well Graded SAND with Silt (SW-SM), fine to medium, trace coarse, 5-10% fines, light brown to gray, wet |
| 16 | S9 | 16-16-15-17 (31) | 24/16 | | S7 - Silty SAND (SM), fine to medium, trace coarse, 20-25% fines, trace fine angular gravel, trace roots, orange to brown, wet |
| 18 | S10 | 12-8-10-14 (18) | 24/18 | | S8 - Silty GRAVEL with Sand (GM), coarse, subangular, 15-20% fines, 20-25% fine to medium sand, brown to orange, wet |
| 20 | S11 | 68-33-33-38 | | | S9 - Silty SAND (SM), fine, ~20% fines, light brown, wet |
| 22 | | | | S10 - Similar to S9 | |
| 24 | | | | S11 - Silty SAND with Gravel (SM), fine to coarse, 20-25% fines, ~20% fine to coarse subangular gravel, light brown to gray, wet | |

GENERAL NOTES:
 1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.

BOTTOM OF FOOTING
 EL. 117.76

| LGCI | | BORING LOG | | B-BB-5 | |
|--|--|--|--|---------------------------|--|
| 100 Chelmsford Road, Suite 2 Dillence, MA 01932 Telephone: (978) 330-5912 Fax: (978) 330-5096 | | PROJECT NAME: Proposed Hop Brook Bridge | | PAGE 2 OF 2 | |
| CLIENT: Vanasse Hangen Brustlin, Inc. | | PROJECT LOCATION: Sudbury, Massachusetts | | LGCI PROJECT NUMBER: 1836 | |

| Depth (ft) | Sample Number | Blow Counts (N Value) | Pen./Rec. (ft) | Strata | Material Description |
|------------|---------------|-----------------------|----------------|--------|---|
| 24 | S11 | (86) | 24/9 | Sand | REMARK 1: Switched to 3-inch casing at 20 feet. |
| 26 | S12 | 60-120/4* | 10/5 | | S12 - Silty GRAVEL with Sand (GM), fine to coarse, subangular to rounded, ~15% fines, ~15% fine to coarse sand, light brown to gray, wet |
| 34 | S13 | 23-46-32-22 (78) | 24/10 | | S13 - Similar to S12 |
| 36 | | | | | S14 - Top 17": Poorly Graded SAND with Silt (SP-SM), fine to medium, 10-15% fines, trace fine subangular gravel, light brown, wet |
| 39 | S14 | 20-60-50-38 (110) | 24/23 | | Bot. 6": Silty GRAVEL with Sand (GM), fine to coarse, 15-20% fines, 15-20% fine to coarse sand, light brown, wet |
| 41 | | | | | S15 - Silty SAND with Gravel (SM), fine to coarse, ~25% fines, 15-20% fine subrounded gravel, light brown to gray, wet |
| 44 | S15 | 8-20-100/3* | 15/7 | | REMARK 2: Open hole drive and wash technique used at 47 feet. |
| 49 | S16 | 120/0* | 0/0 | | REMARK 3: Attempted to obtain a core sample at 49 feet. Core barrel advanced ~5 feet in ~10 seconds, indicating that the material was not rock. |
| 50 | | | | | S16 - No recovery |
| 54 | S17 | 120/0* | 0/0 | | S17 - No recovery |

Bottom of borehole at 54.0 feet. Backfilled borehole with drill cuttings.

| N.O. | DESCRIPTION | BY | DATE | APPR. |
|--|------------------------|-----------------|-----------------|-------------------------|
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH, & SUDBURY MASSACHUSETTS | | | | |
| BRIDGE S-31-016 (BRIDGE 127) - BORING LOGS | | | | |
| PLANI 94 OF 348 | | | | |
| SCALE: unless noted N/A | DATE DRAWN OCT 2020 | C H'K D. AMS | A P P R. SBK | DRAWING NO. REV. KGK |



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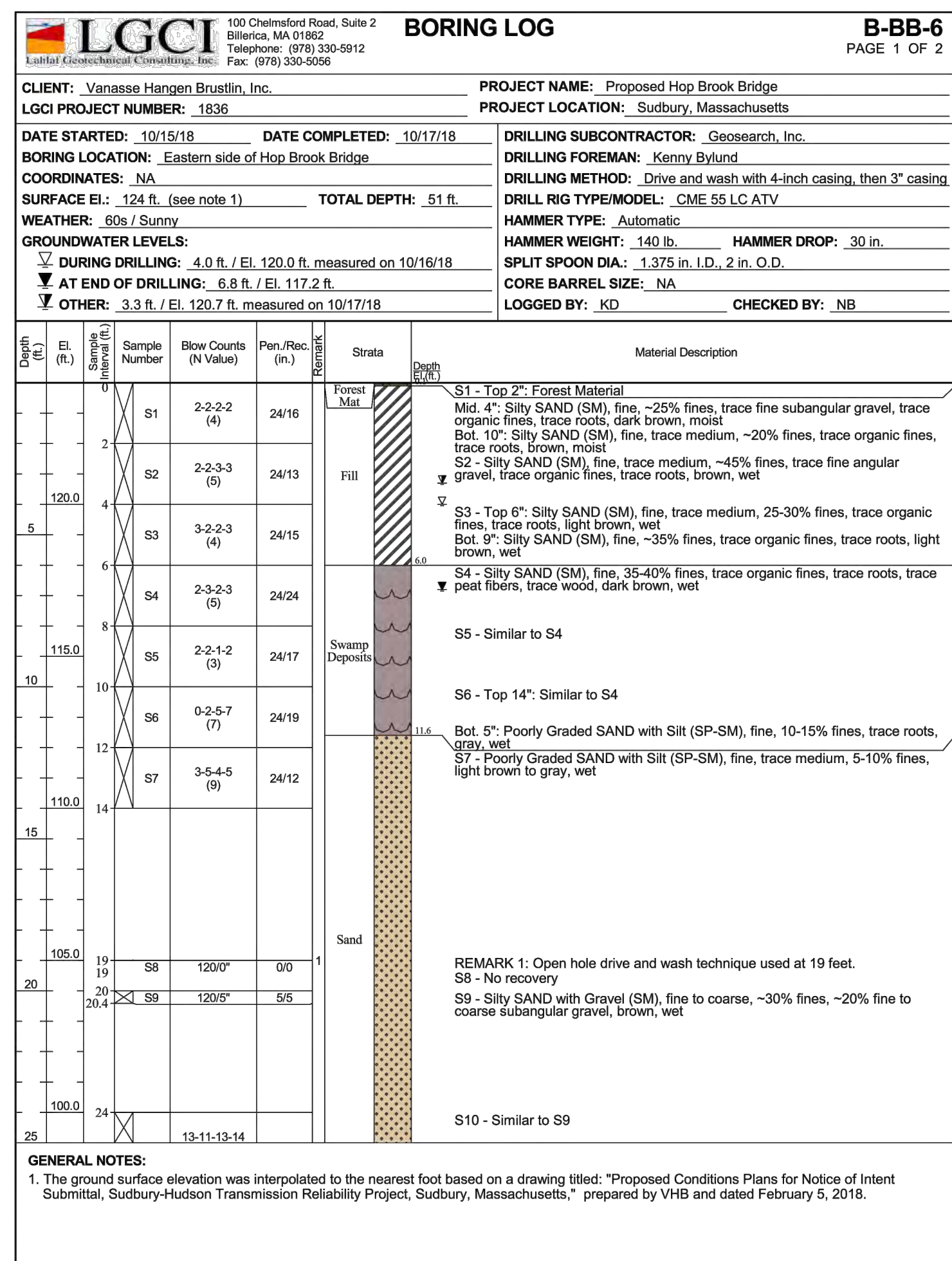
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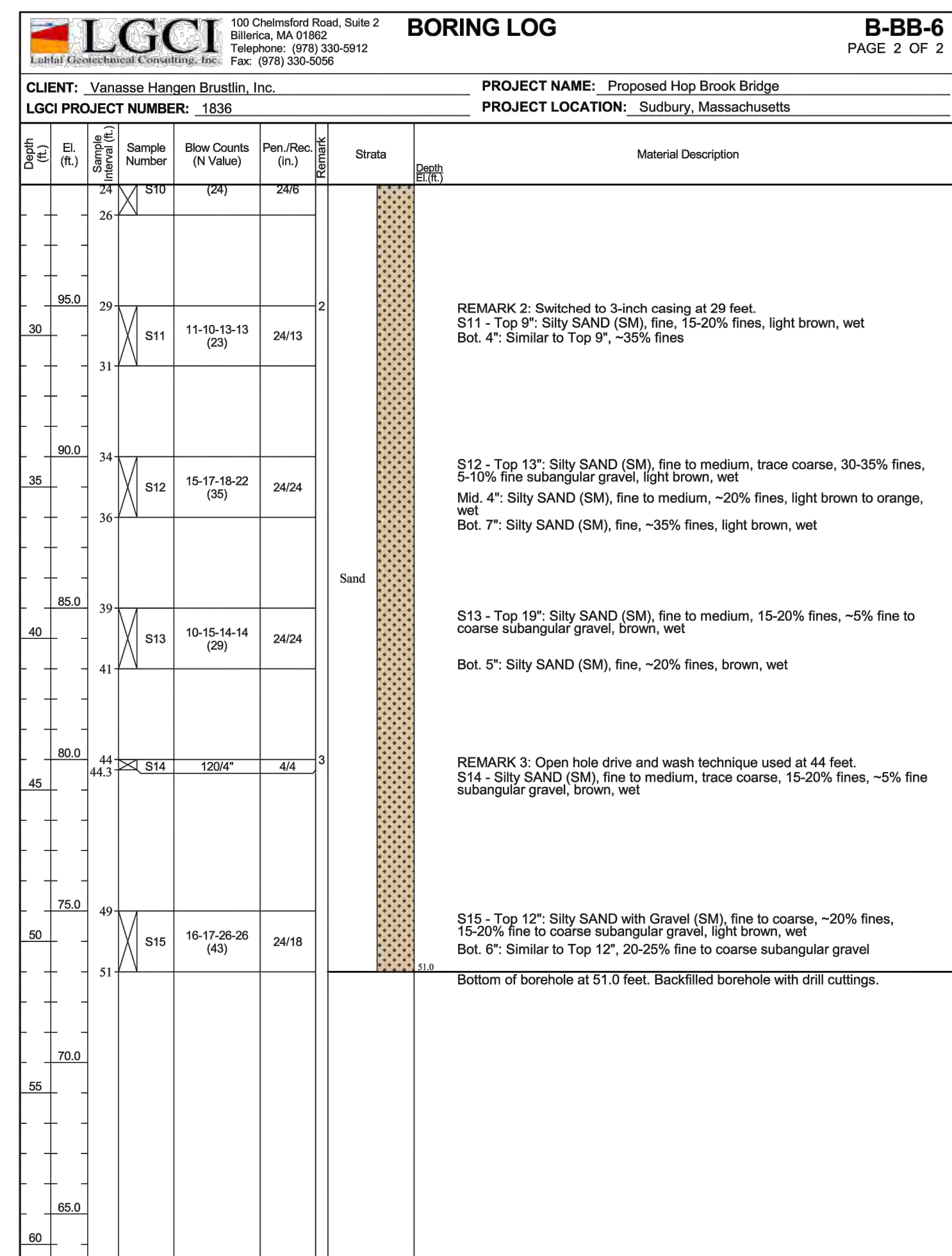
G

BORING BB-6
 STATION: 725+68.0
 OFFSET: 0.0' LT
 N: 2956131.0
 E: 679542.0
 GROUND ELEVATION: 124.0'
 (SEE NOTE 10, SHEET 193 OF 347)

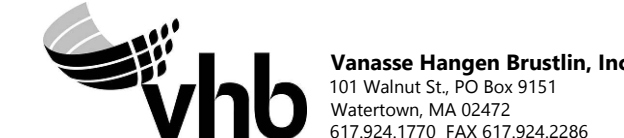
BORING BB-6 (CONTINUED)



BOTTOM OF FOOTING
 EL. 117.47



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|--|------------------|--------------|----------------|-----------------|
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH, & SUDBURY MASSACHUSETTS | | | | |
| BRIDGE S-31-016 (BRIDGE 127) - BORING LOGS | | | | |
| PLAN 95 OF 348 | | | | |
| SCALE: unless noted N/A | DATE OCT 2020 | DRAWN AMS | CHECKED SBK | APPROVED KGK |
| DRAWING NO. | | | | REV. |



Vanasse Hangen Brustlin, Inc.
 101 Walnut St., PO Box 9151
 Watertown, MA 02472
 617.924.1770 FAX 617.924.2286

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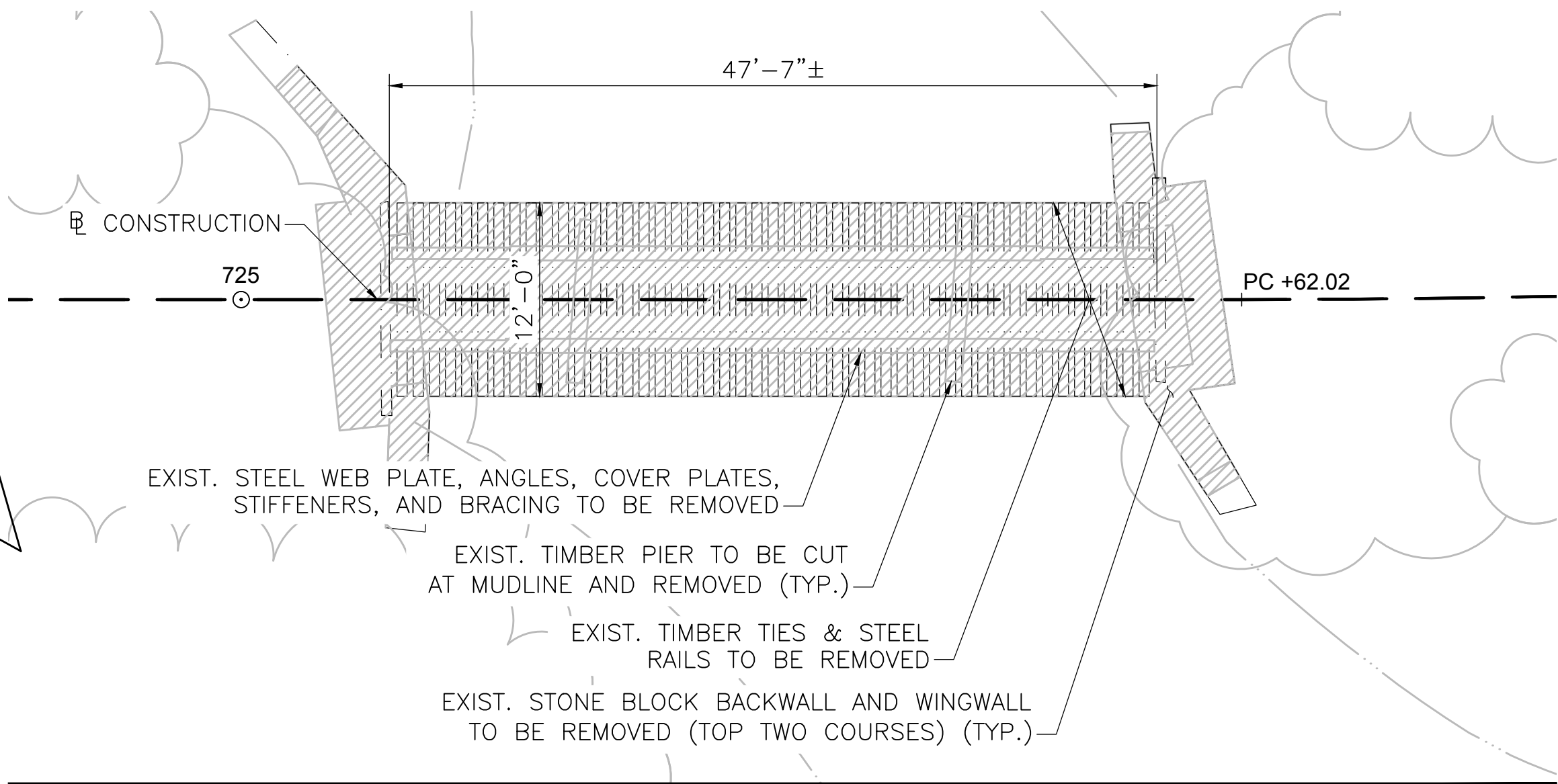
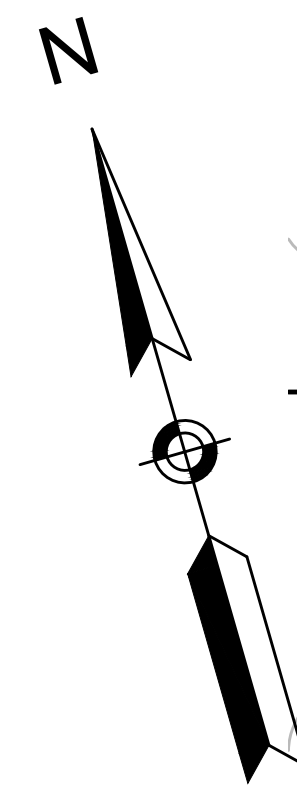
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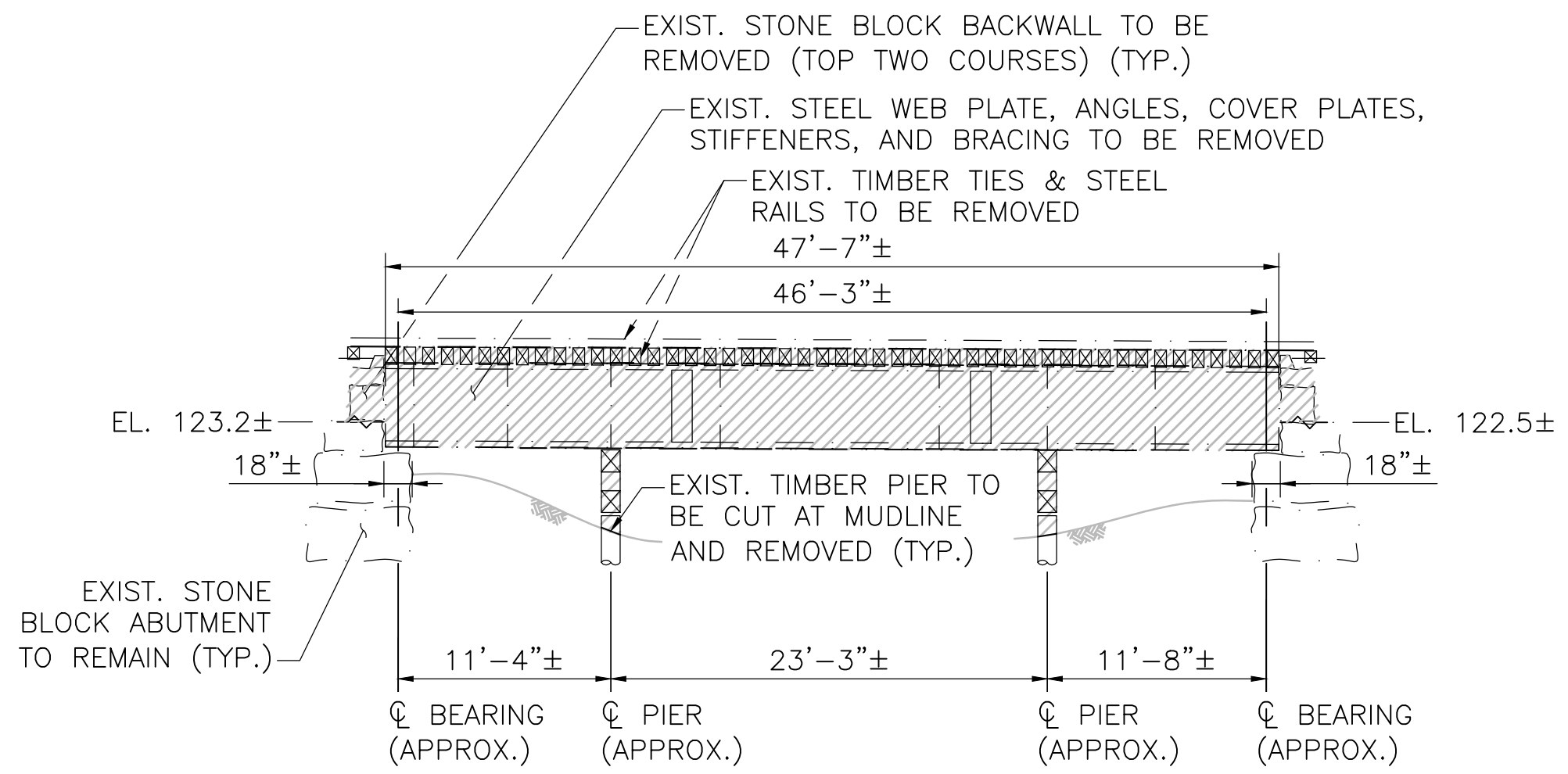
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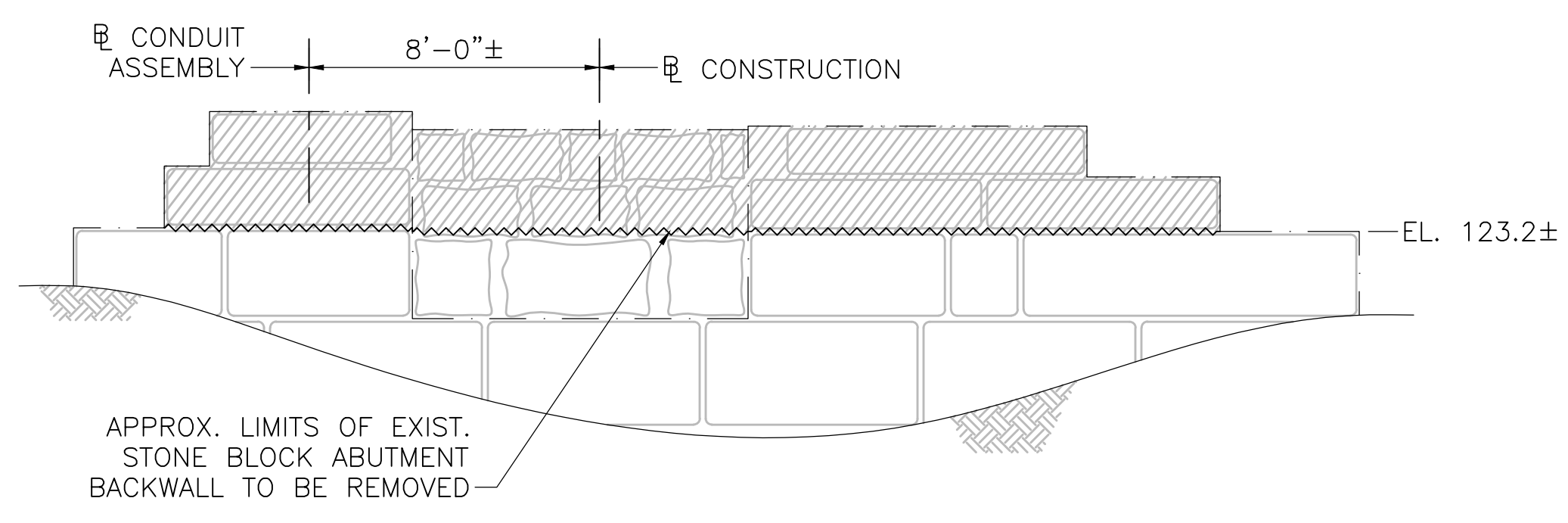
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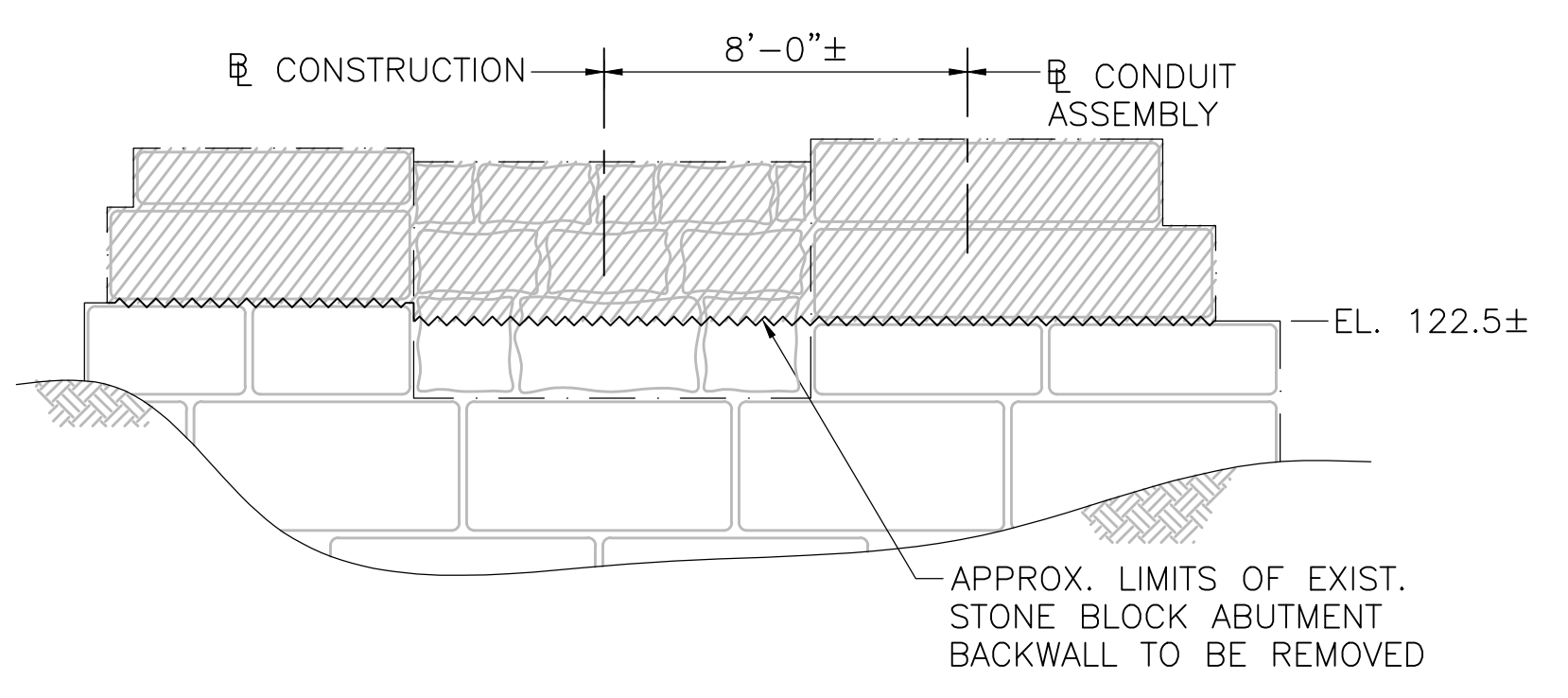
BRIDGE PLAN
SCALE: 1/8"=1'-0"



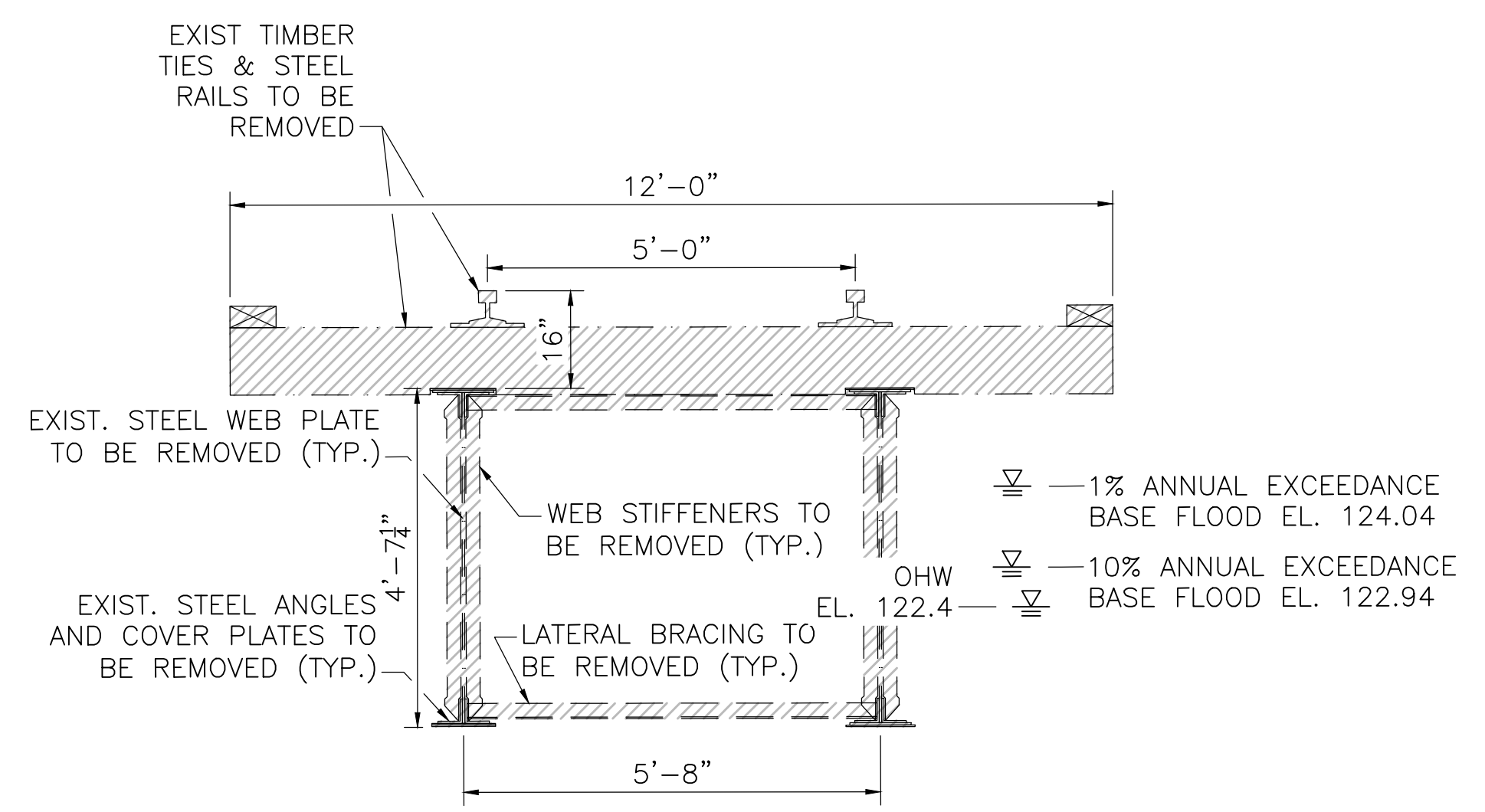
BRIDGE ELEVATION
SCALE: 1/8"=1'-0"



WEST ABUTMENT ELEVATION
SCALE: 1/4"=1'-0"

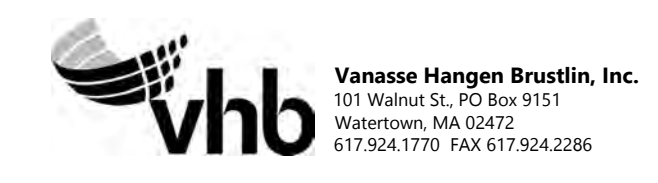


EAST ABUTMENT ELEVATION
SCALE: 1/4"=1'-0"



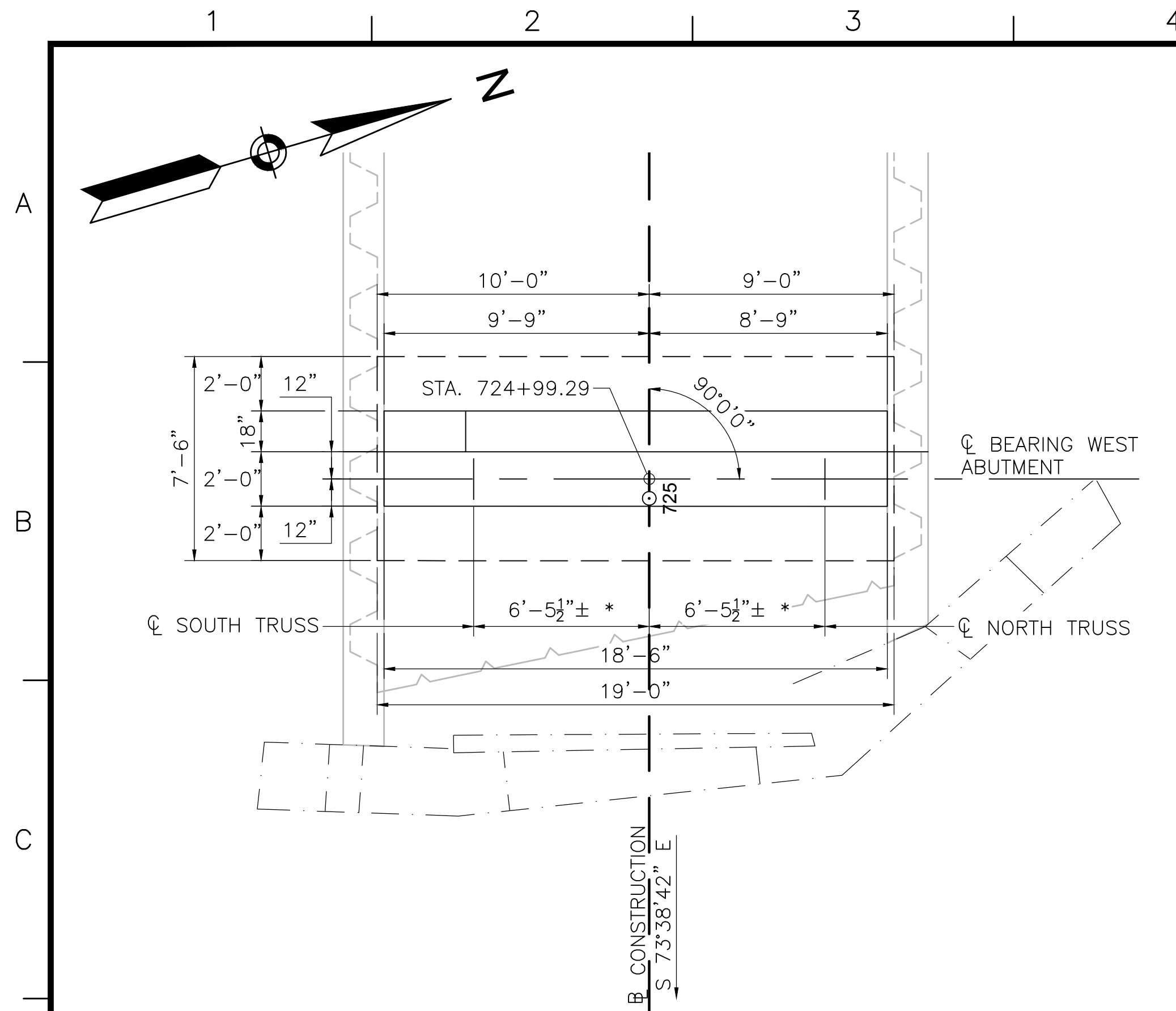
BRIDGE TRANSVERSE SECTION
SCALE: 1/2"=1'-0"

NOTE: CONTRACTOR SHALL DESIGN AND INSTALL TEMPORARY PROTECTIVE SHIELDING DURING DEMOLITION OF BRIDGE AND AS NEEDED DURING CONSTRUCTION OF NEW BRIDGE TO PREVENT CONSTRUCTION DEBRIS FROM FALLING INTO THE WATER BODIES BELOW. SEE PROJECT SPECIFICATIONS AND PERMITTING DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.



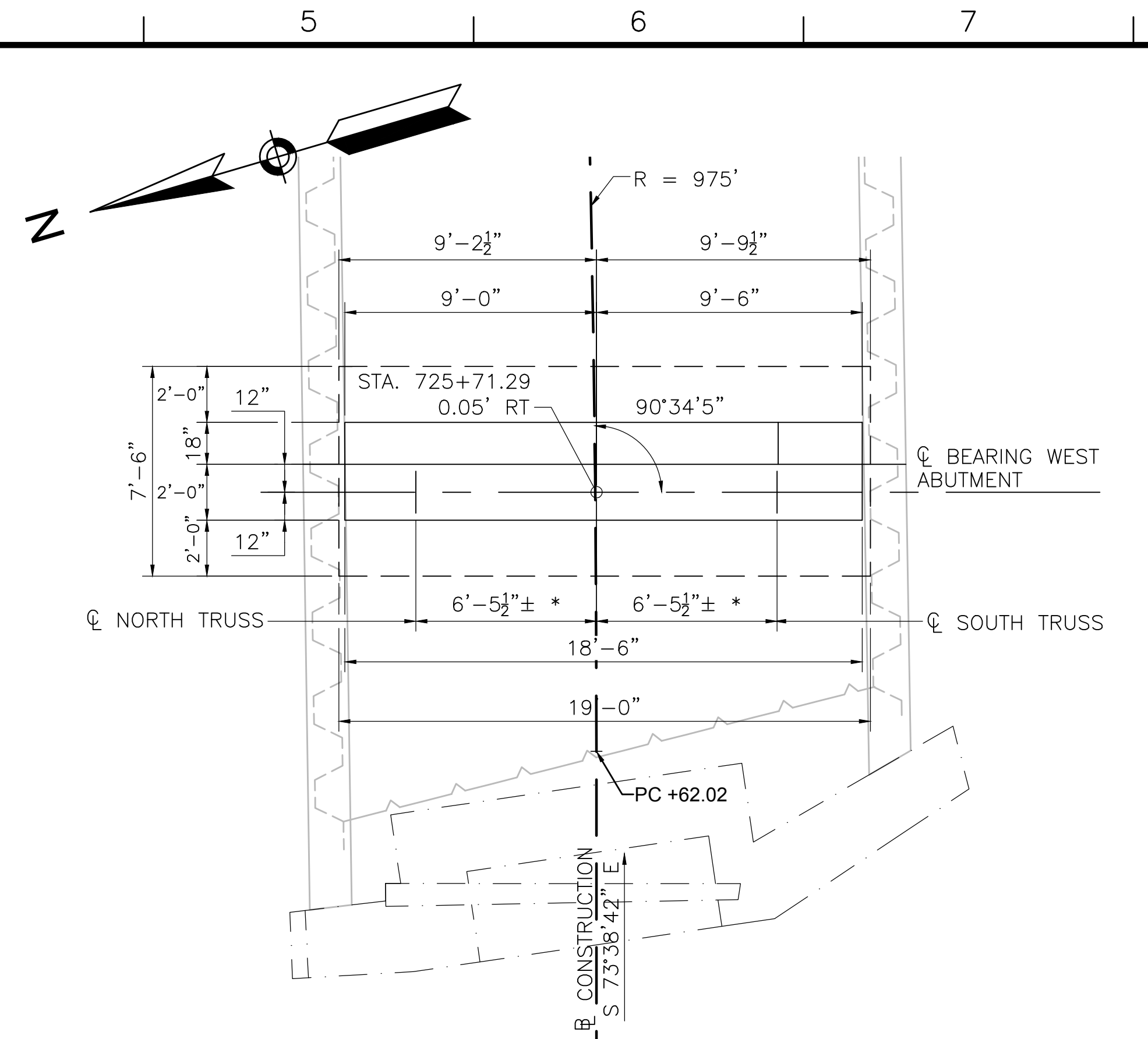
| NO. | DESCRIPTION | BY | DATE | APPR. |
|---|----------------|------------|--------------|------------------|
| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| BRIDGE S-31-016 (BRIDGE 127) - DEMOLITION PLAN | | | | |
| PLAN 960F 348 | | | | |
| SCALE: unless noted VARIES | DATE: OCT 2020 | DRAWN: AMS | CHECKED: SBK | APPROVED: KGK |
| | | | | DRAWING NO. REV. |

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WEST ABUTMENT PLAN

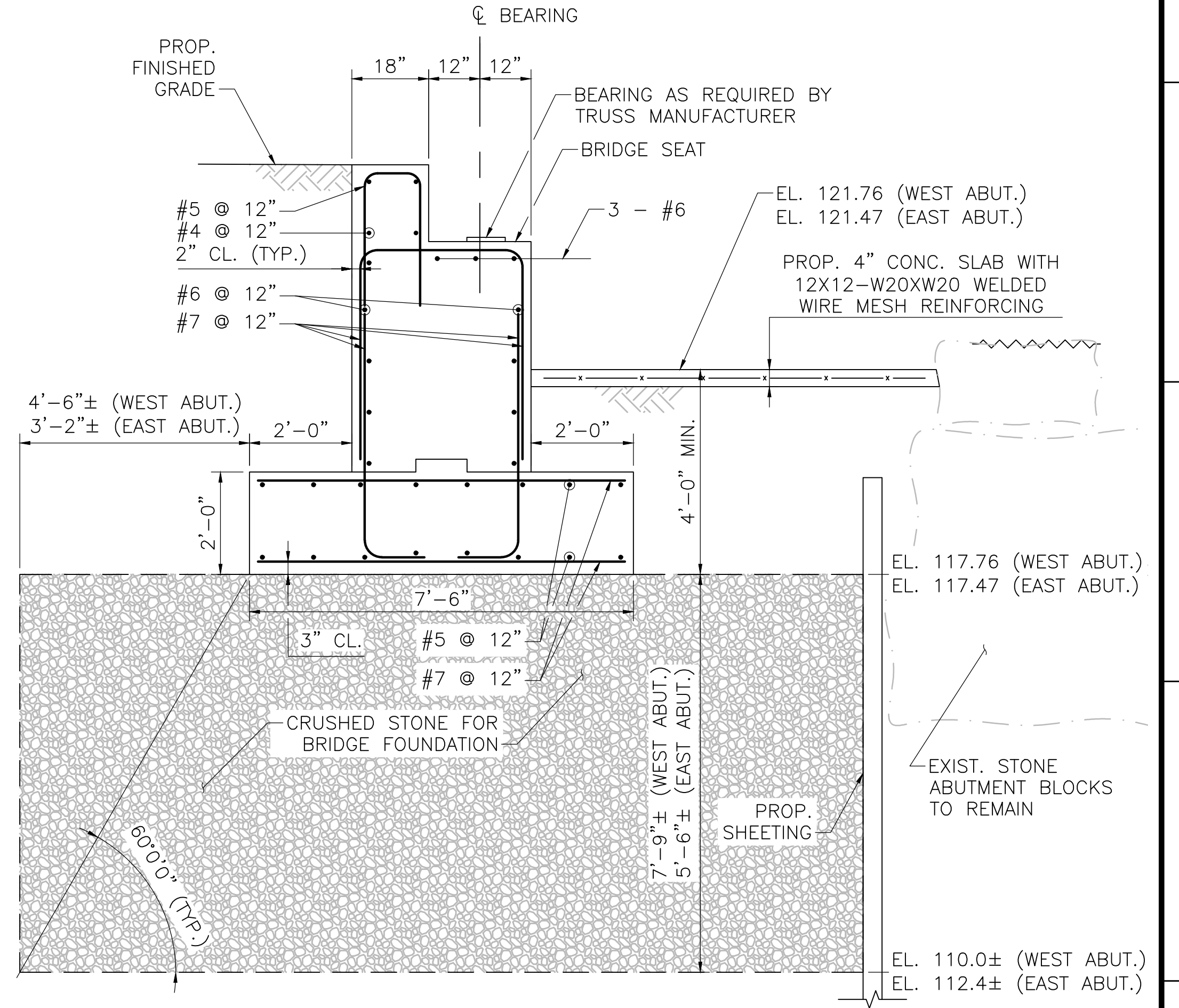
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EAST ABUTMENT PLAN

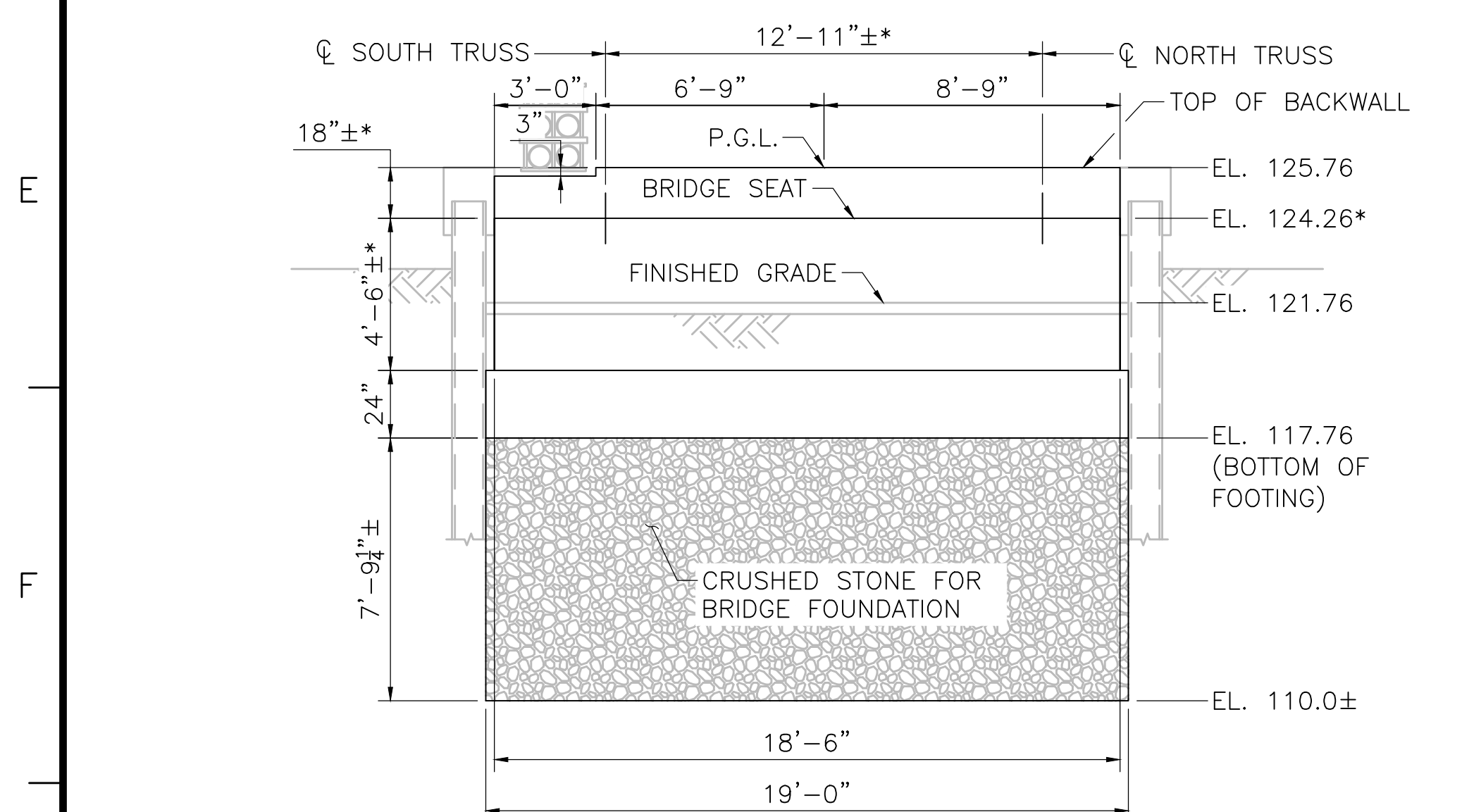
SCALE: 1/4"=1'-0"

*NOTE: ACTUAL DIMENSIONS PER TRUSS MANUFACTURER'S DESIGN



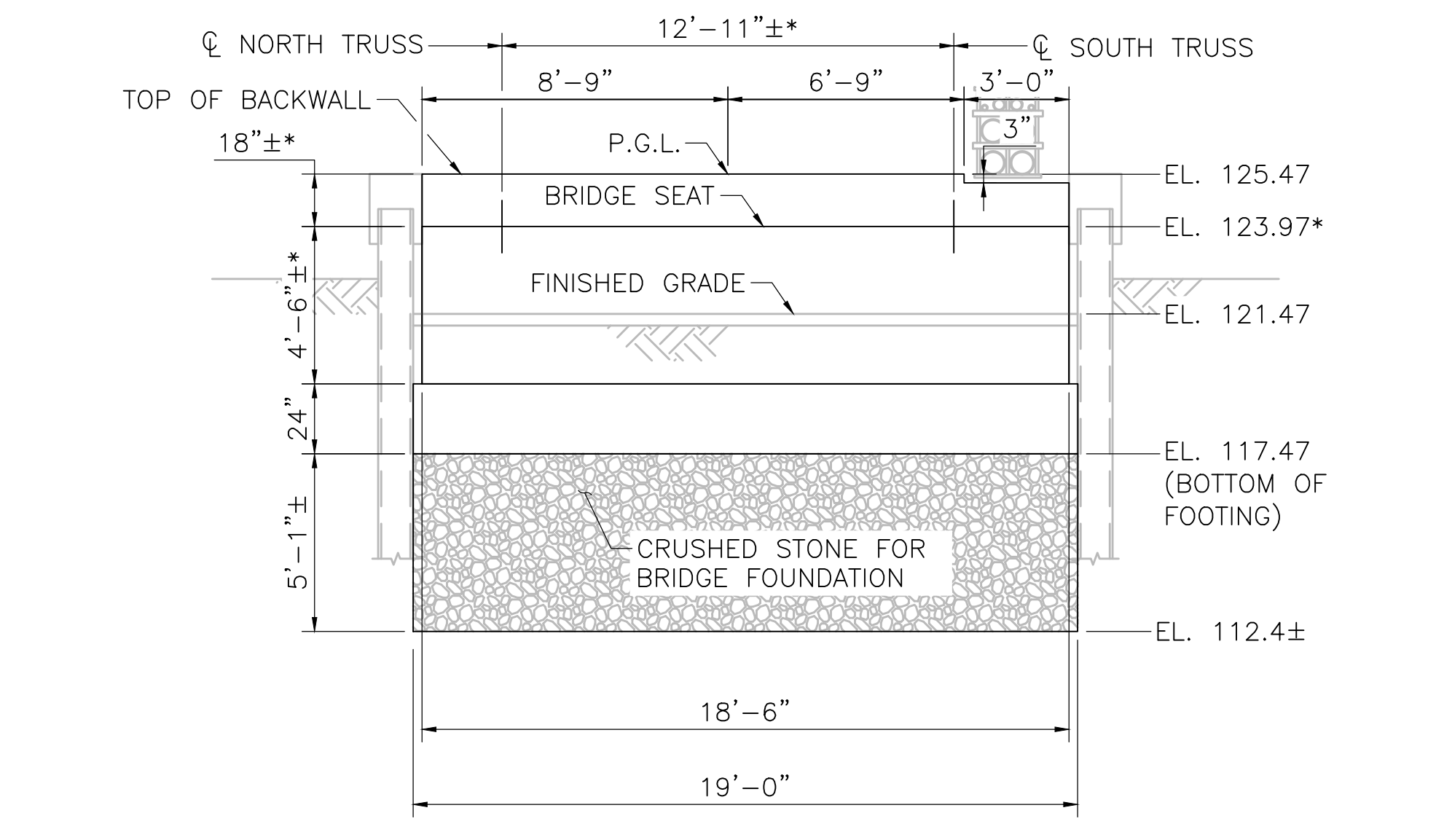
TYPICAL ABUTMENT SECTION

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



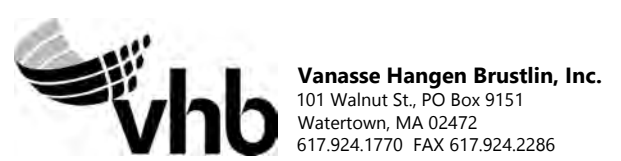
WEST ABUTMENT ELEVATION

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

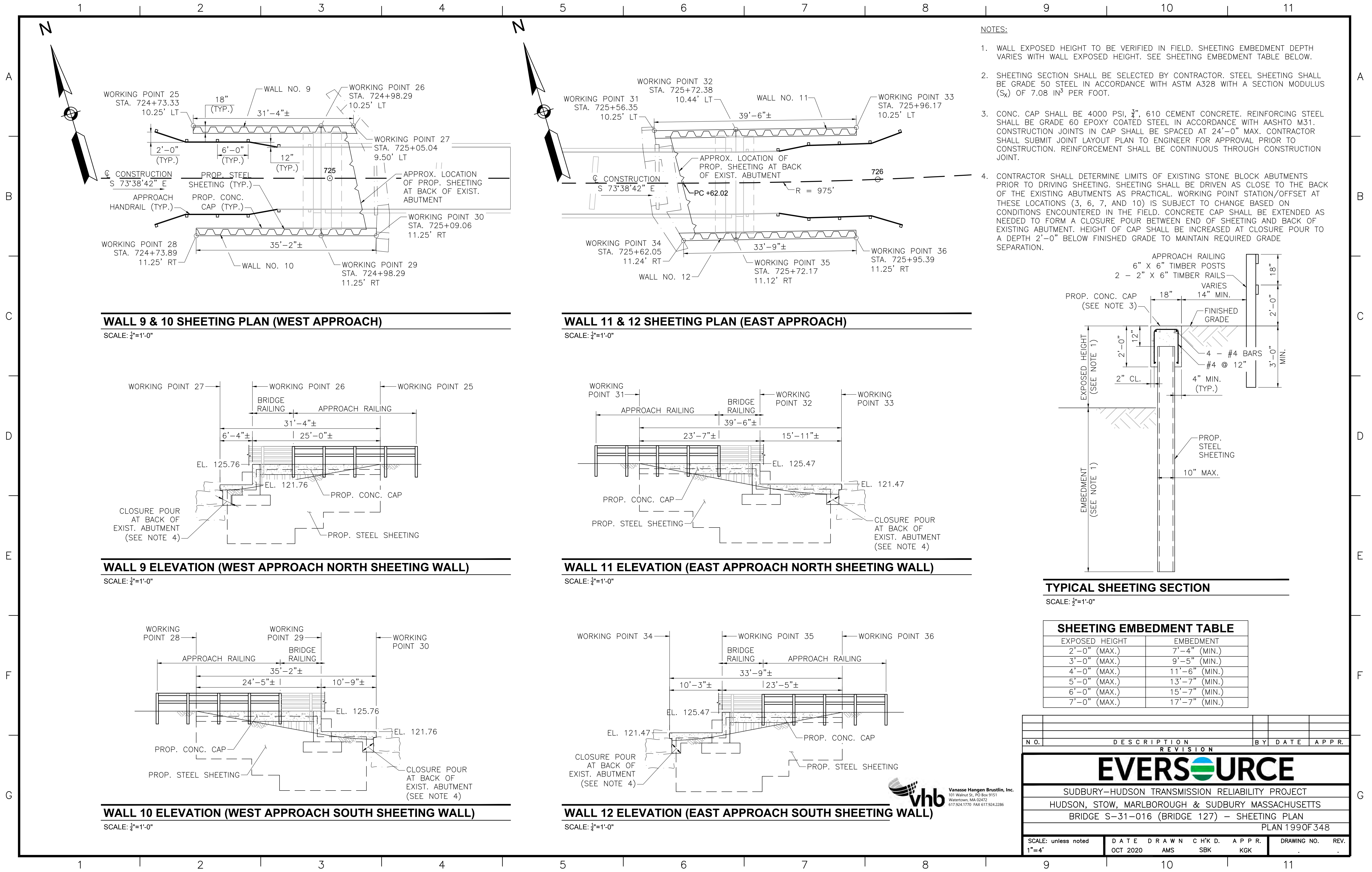


EAST ABUTMENT ELEVATION

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



| NO. | DESCRIPTION | | BY | DATE | APPR. |
|---|------------------|--------------|-----------------|--------------|------------------|
| | REVISION | | | | |
| EVERSOURCE | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | |
| BRIDGE S-31-016 (BRIDGE 127) - SUBSTRUCTURE DETAILS | | | | | |
| PLAN 98 OF 348 | | | | | |
| SCALE: unless noted 1"=4' | DATE OCT 2020 | DRAWN AMS | C'H'K D. SBK | APPR. KGK | DRAWING NO. REV. |



NOTES:

1. WALL EXPOSED HEIGHT TO BE VERIFIED IN FIELD. SHEETING EMBEDMENT DEPTH VARIES WITH WALL EXPOSED HEIGHT. SEE SHEETING EMBEDMENT TABLE BELOW.
2. SHEETING SECTION SHALL BE SELECTED BY CONTRACTOR. STEEL SHEETING SHALL BE GRADE 50 STEEL IN ACCORDANCE WITH ASTM A328 WITH A SECTION MODULUS (S_x) OF 7.08 IN³ PER FOOT.
3. CONC. CAP SHALL BE 4000 PSI, 3/4", 610 CEMENT CONCRETE. REINFORCING STEEL SHALL BE GRADE 60 EPOXY COATED STEEL IN ACCORDANCE WITH AASHTO M31. CONSTRUCTION JOINTS IN CAP SHALL BE SPACED AT 24'-0" MAX. CONTRACTOR SHALL SUBMIT JOINT LAYOUT PLAN TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINT.
4. CONTRACTOR SHALL DETERMINE LIMITS OF EXISTING STONE BLOCK ABUTMENTS PRIOR TO DRIVING SHEETING. SHEETING SHALL BE DRIVEN AS CLOSE TO THE BACK OF THE EXISTING ABUTMENTS AS PRACTICAL. WORKING POINT STATION/OFFSET AT THESE LOCATIONS (3, 6, 7, AND 10) IS SUBJECT TO CHANGE BASED ON CONDITIONS ENCOUNTERED IN THE FIELD. CONCRETE CAP SHALL BE EXTENDED AS NEEDED TO FORM A CLOSURE POUR BETWEEN END OF SHEETING AND BACK OF EXISTING ABUTMENT. HEIGHT OF CAP SHALL BE INCREASED AT CLOSURE POUR TO A DEPTH 2'-0" BELOW FINISHED GRADE TO MAINTAIN REQUIRED GRADE SEPARATION.

WALL 9 & 10 SHEETING PLAN (WEST APPROACH)

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

WALL 11 & 12 SHEETING PLAN (EAST APPROACH)

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

WALL 9 ELEVATION (WEST APPROACH NORTH SHEETING WALL)

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

WALL 11 ELEVATION (EAST APPROACH NORTH SHEETING WALL)

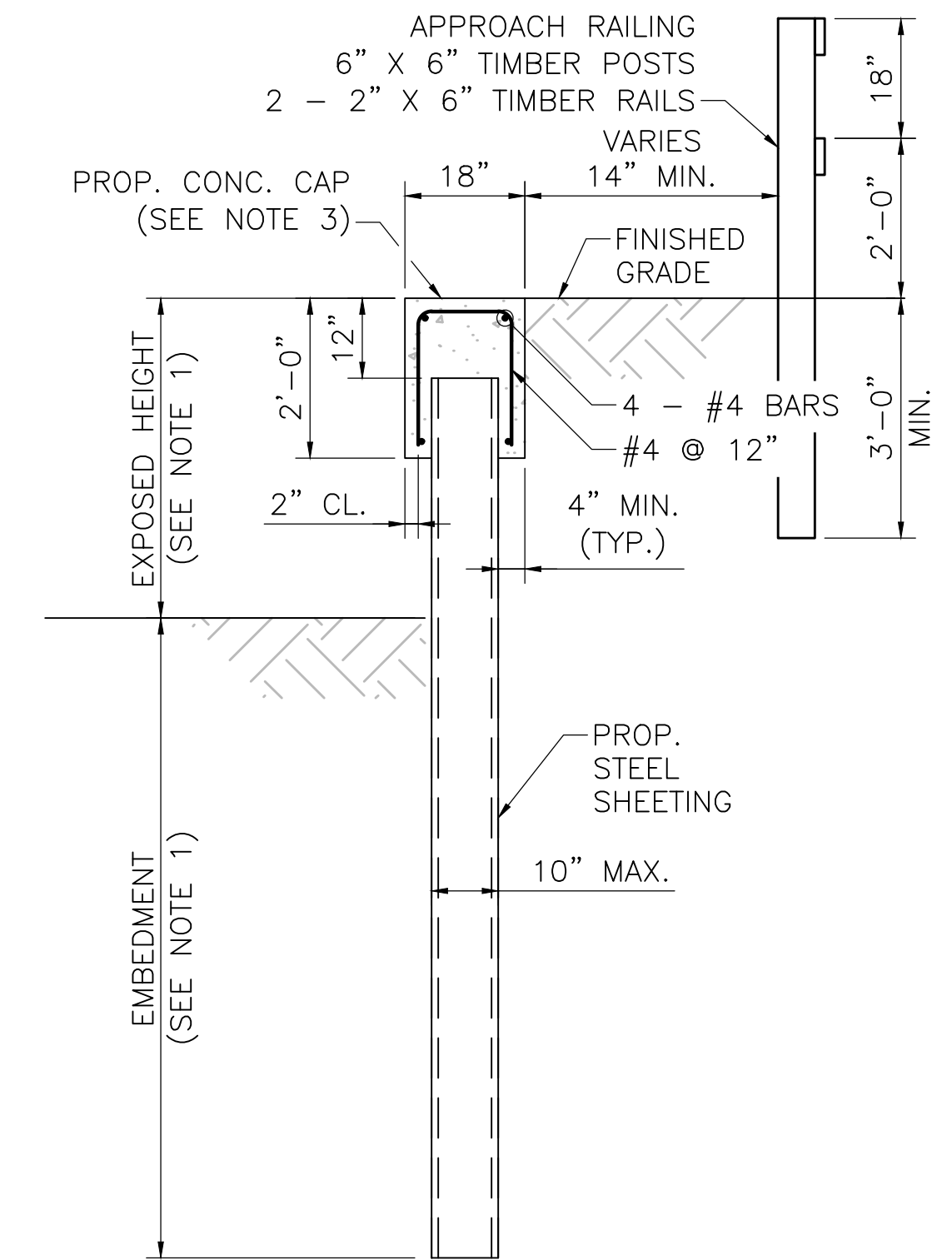
SCALE: 1/4"=1'-0"

WALL 10 ELEVATION (WEST APPROACH SOUTH SHEETING WALL)

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

WALL 12 ELEVATION (EAST APPROACH SOUTH SHEETING WALL)

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



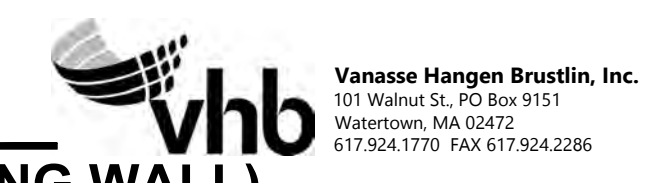
TYPICAL SHEETING SECTION

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

SHEETING EMBEDMENT TABLE

| EXPOSED HEIGHT | EMBEDMENT |
|----------------|---------------|
| 2'-0" (MAX.) | 7'-4" (MIN.) |
| 3'-0" (MAX.) | 9'-5" (MIN.) |
| 4'-0" (MAX.) | 11'-6" (MIN.) |
| 5'-0" (MAX.) | 13'-7" (MIN.) |
| 6'-0" (MAX.) | 15'-7" (MIN.) |
| 7'-0" (MAX.) | 17'-7" (MIN.) |

| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|--------------|-----------------|--------------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| BRIDGE S-31-016 (BRIDGE 127) - SHEETING PLAN | | | | |
| PLAN 199OF 348 | | | | |
| SCALE: unless noted 1"=4' | DATE OCT 2020 | DRAWN AMS | C'H'K D. SBK | APPR. KGK |
| DRAWING NO. | | | | REV. |



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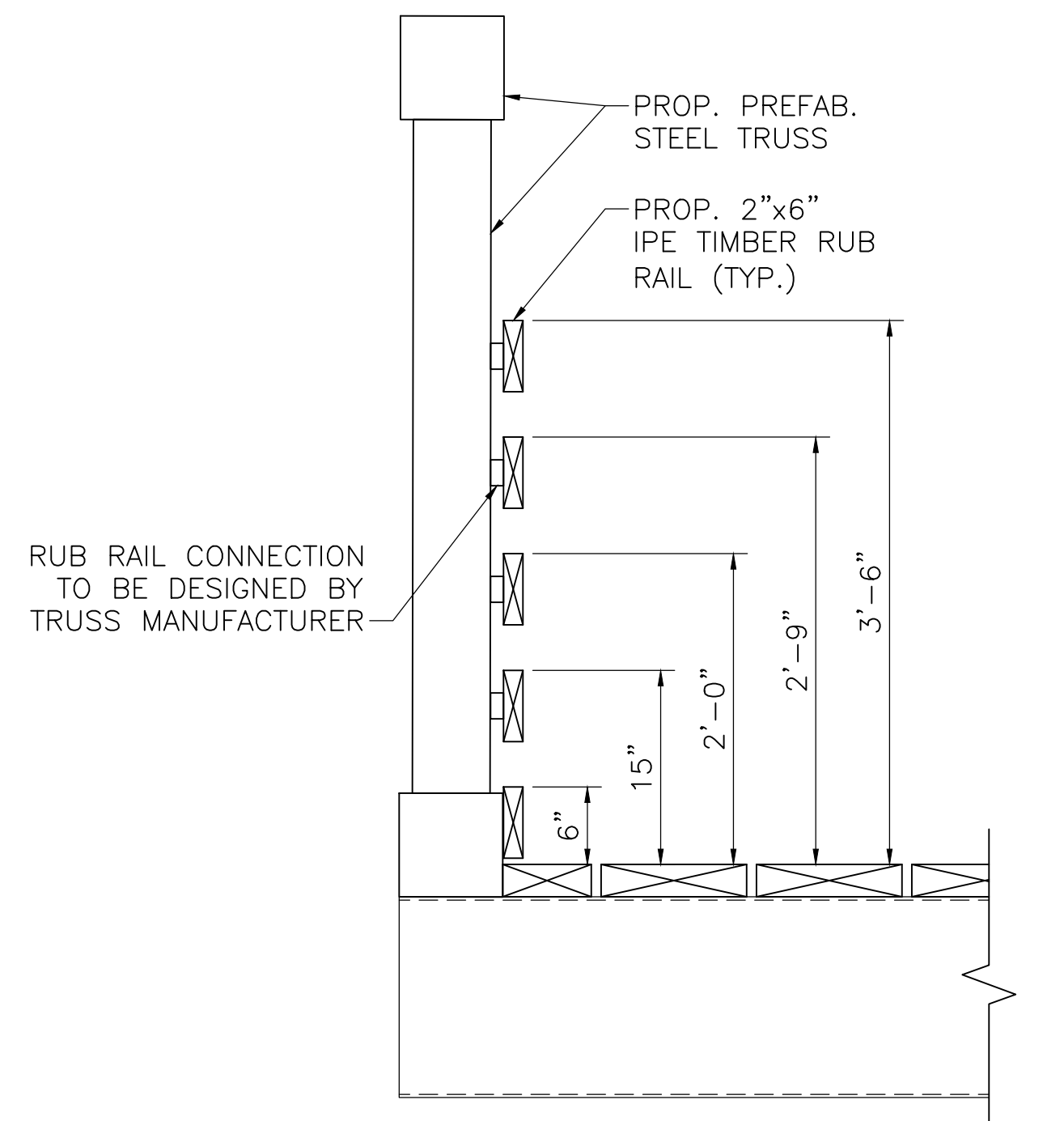
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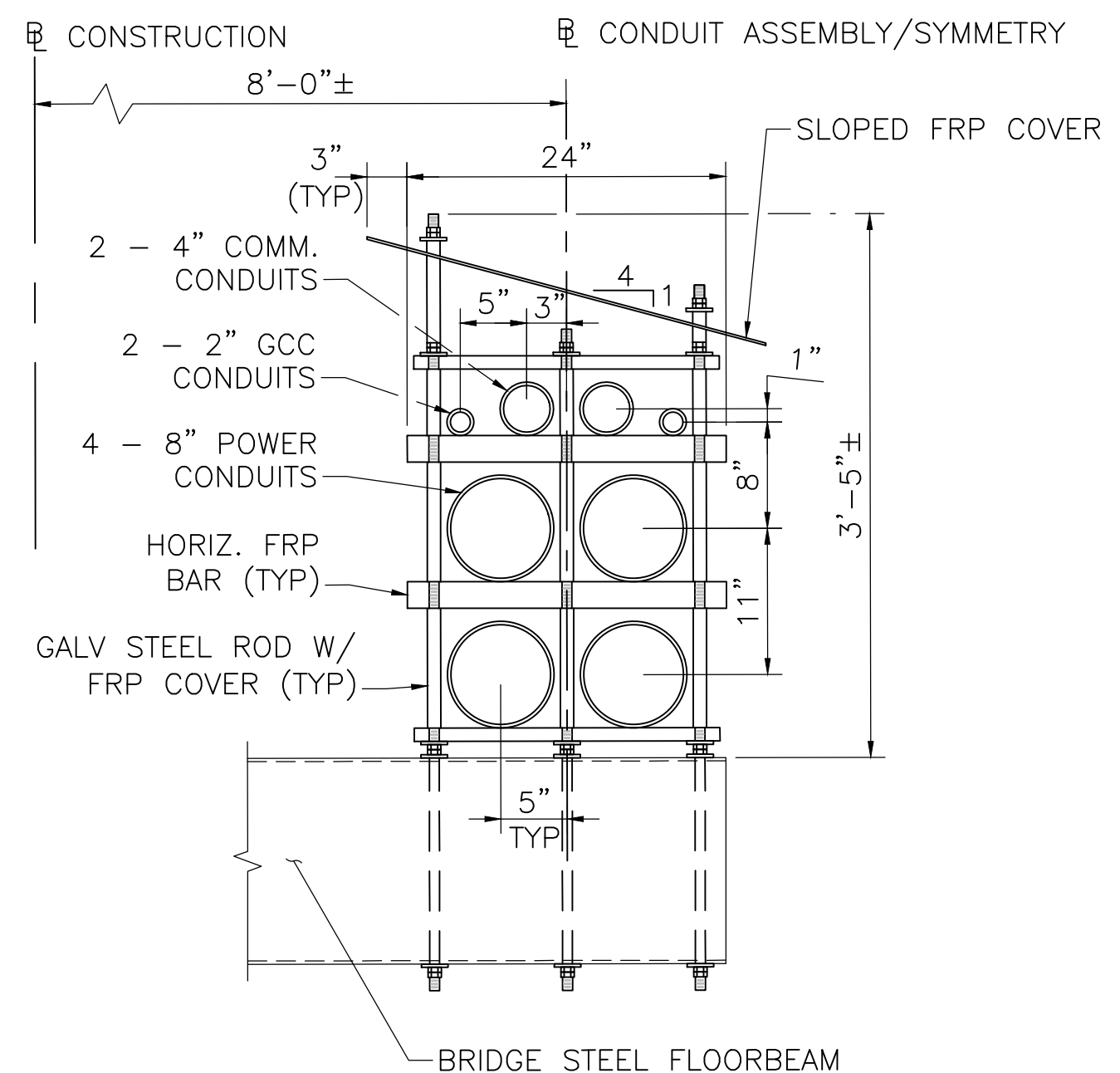
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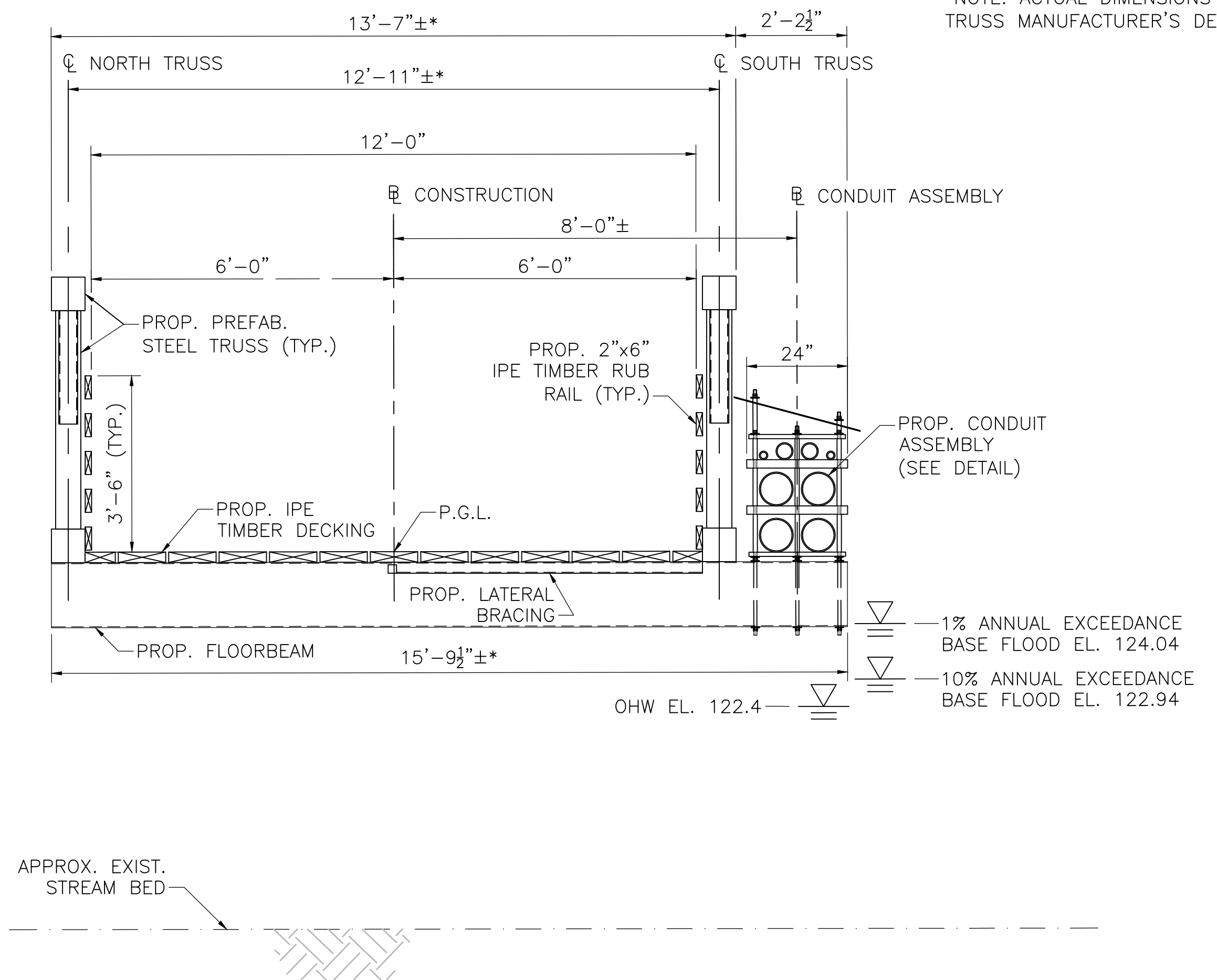
RAILING CONNECTION DETAIL

SCALE: 1"=1'-0"



CONDUIT ASSEMBLY DETAIL

SCALE: 1"=1'-0"



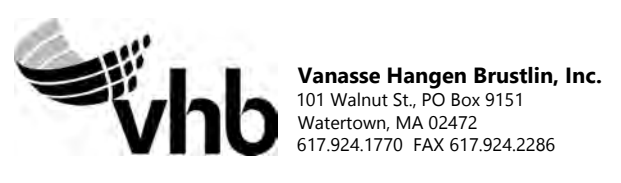
BRIDGE TRANSVERSE SECTION

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

NOTES:

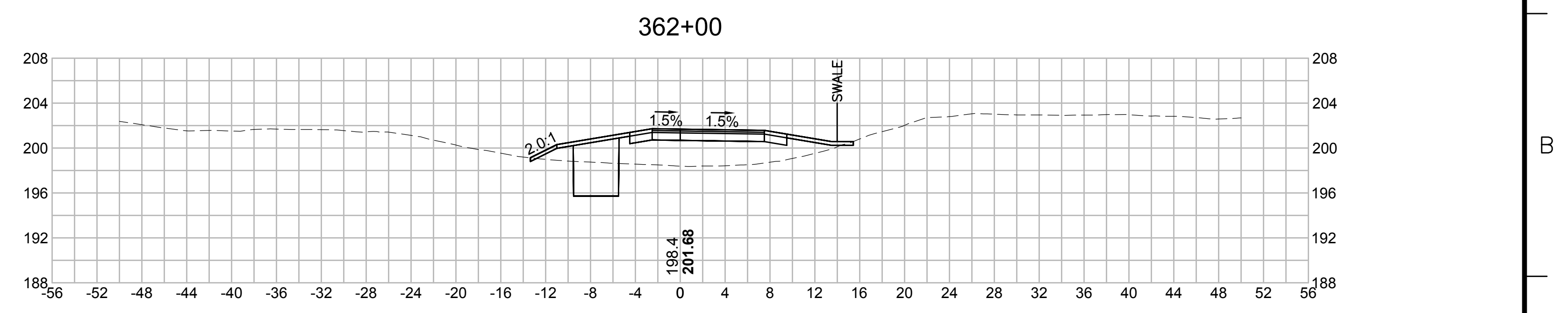
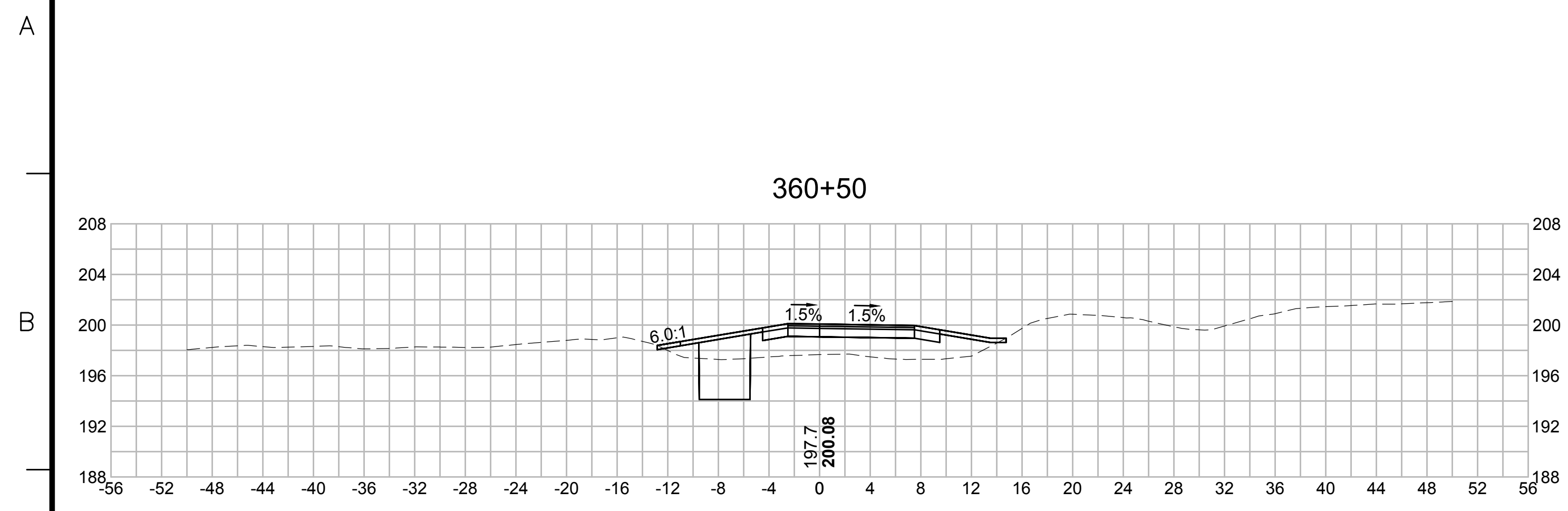
- TRUSS SHALL BE DESIGNED FOR TEMPORARY H2O LOADING DURING CONSTRUCTION. TIMBER DECKING IS DESIGNED FOR H10 LOADING WITHOUT IMPACT AND 90 PSF PEDESTRIAN LOADING, WHICHEVER CONTROLS. CONTRACTOR SHALL DESIGN TEMPORARY DECKING IF BRIDGE IS INTENDED TO BE USED FOR CONSTRUCTION VEHICLES.

| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|-------------|-------|----------|-------|
| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| BRIDGE S-31-016 (BRIDGE 127) - SECTION OF DETAILS | | | | |
| PLAN 2000F 348 | | | | |
| SCALE: unless noted | DATE | DRAWN | C'H'K D. | APPR. |
| VARIES | OCT 2020 | AMS | SBK | KGK |
| DRAWING NO. | REV. | | | |
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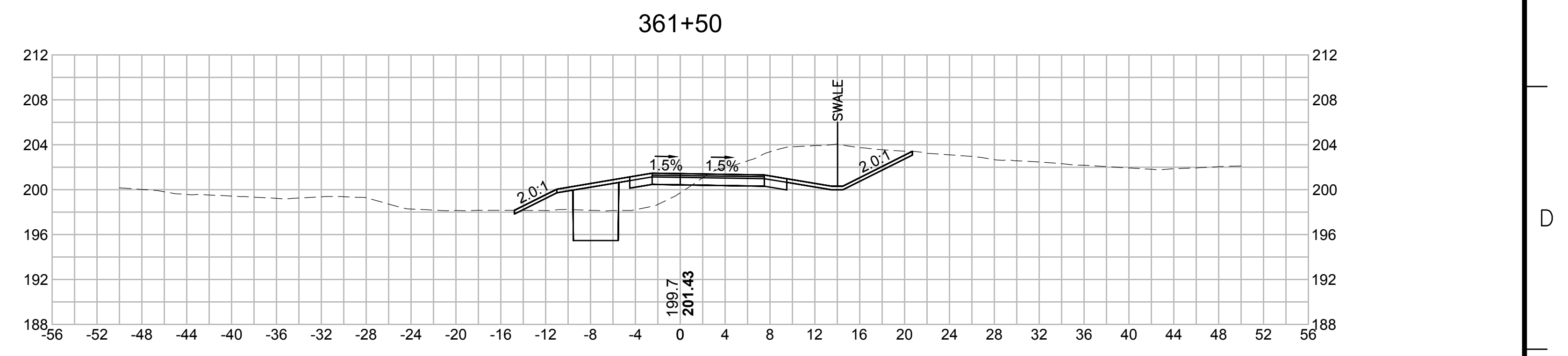
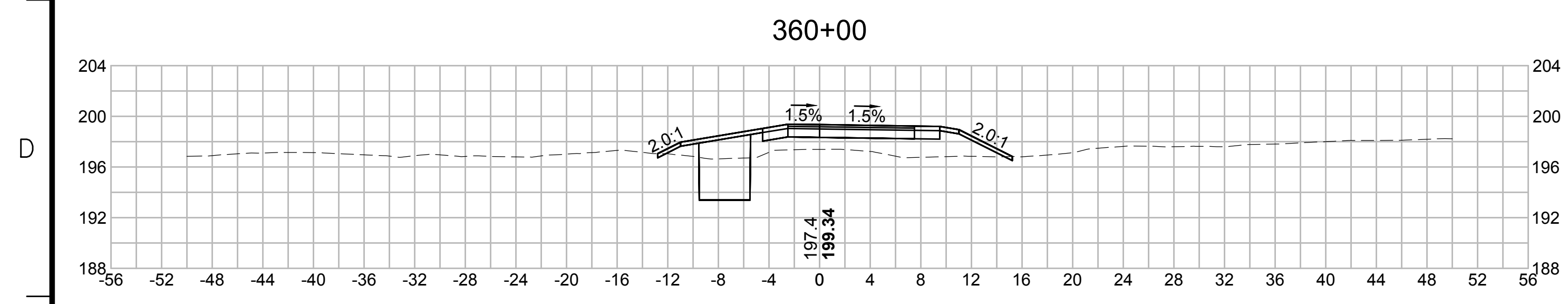


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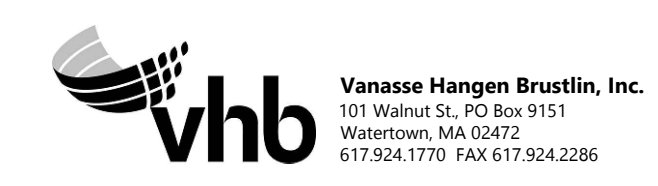
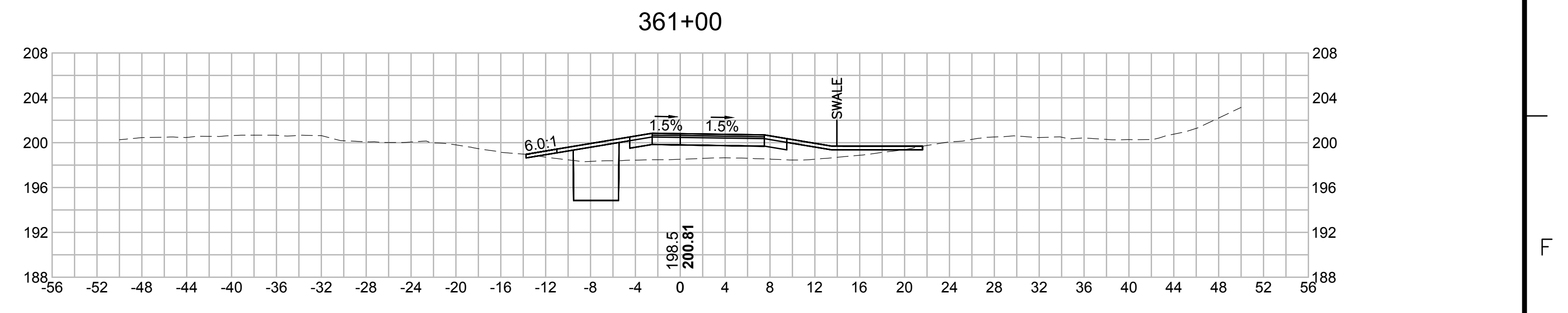
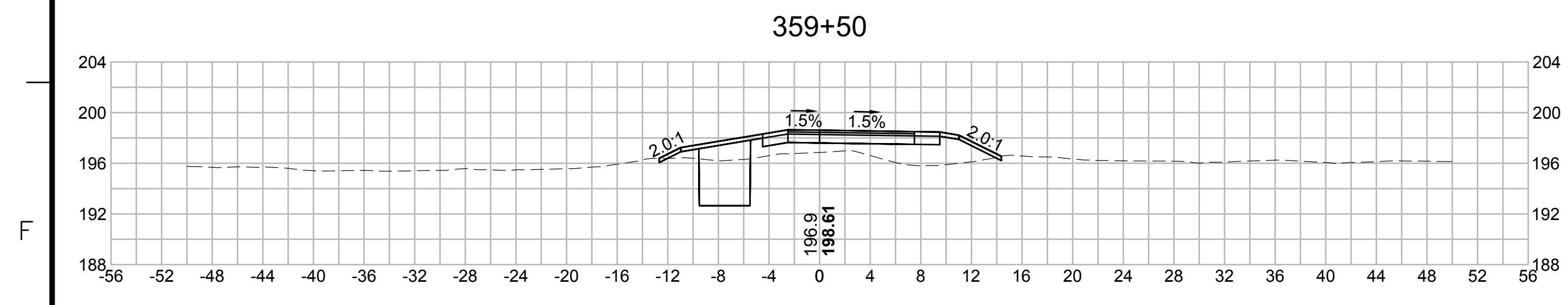
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TOWN OF SUDBURY

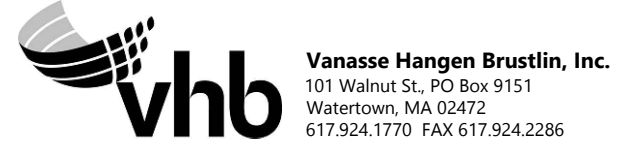
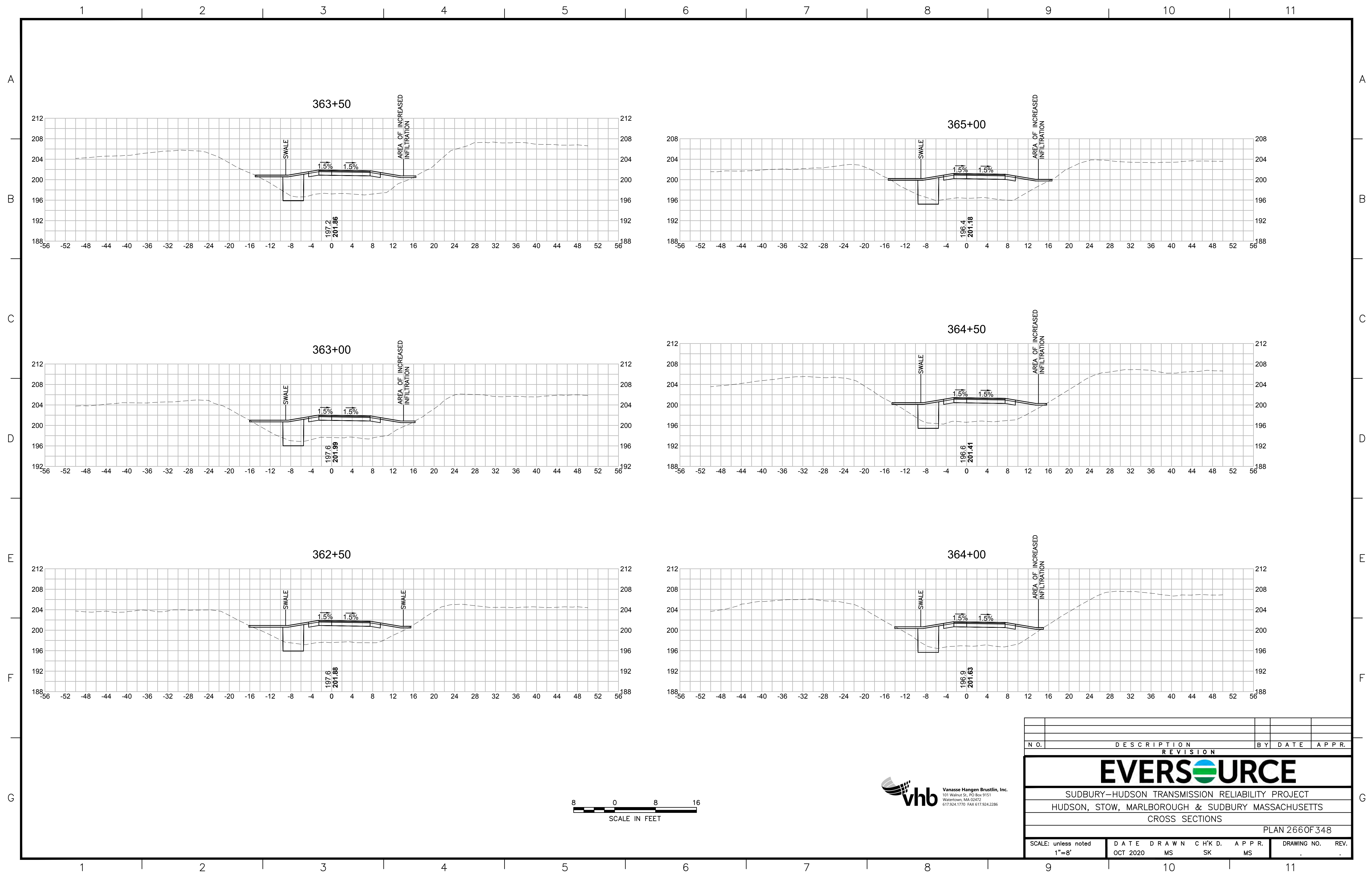


CITY OF MARLBOROUGH
TOWN OF HUDSON



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|---------------|-----------------|
| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 265 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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| NO. | DESCRIPTION | | BY | DATE | APPR. |
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| | REVISION | | | | |
| EVERSOURCE | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | |
| CROSS SECTIONS | | | | | |
| PLAN 266 OF 348 | | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MS | DRAWING NO. REV. |

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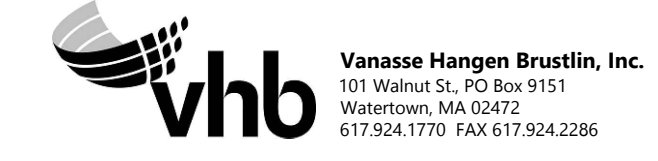
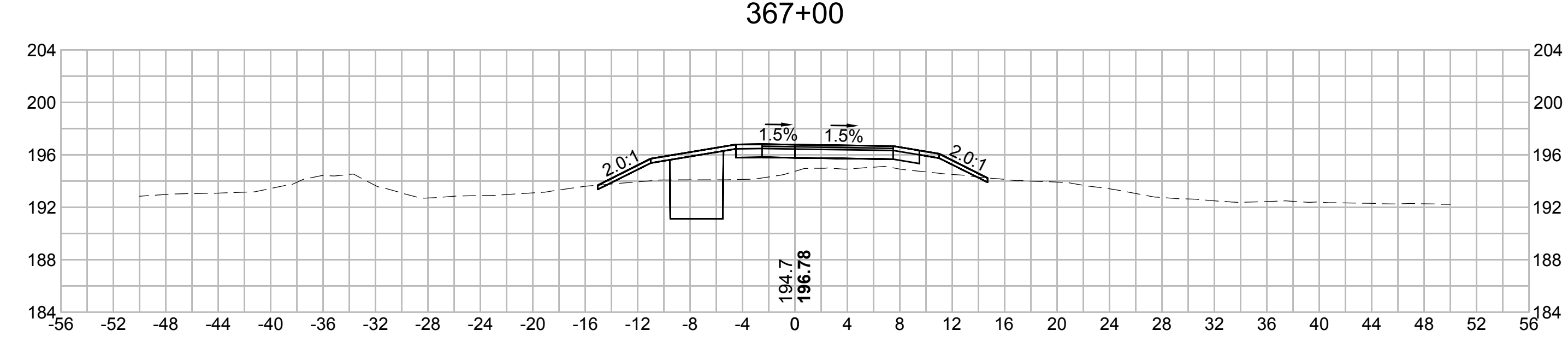
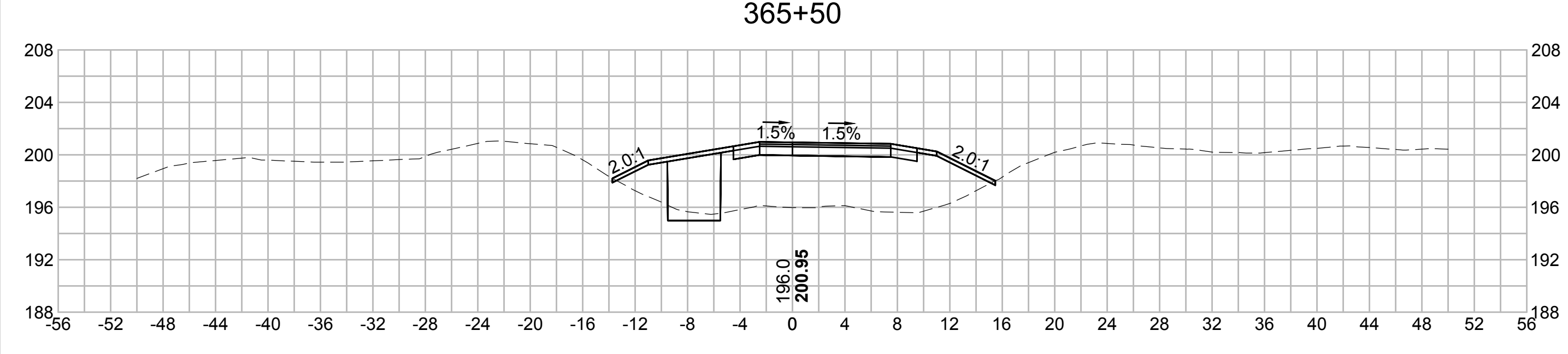
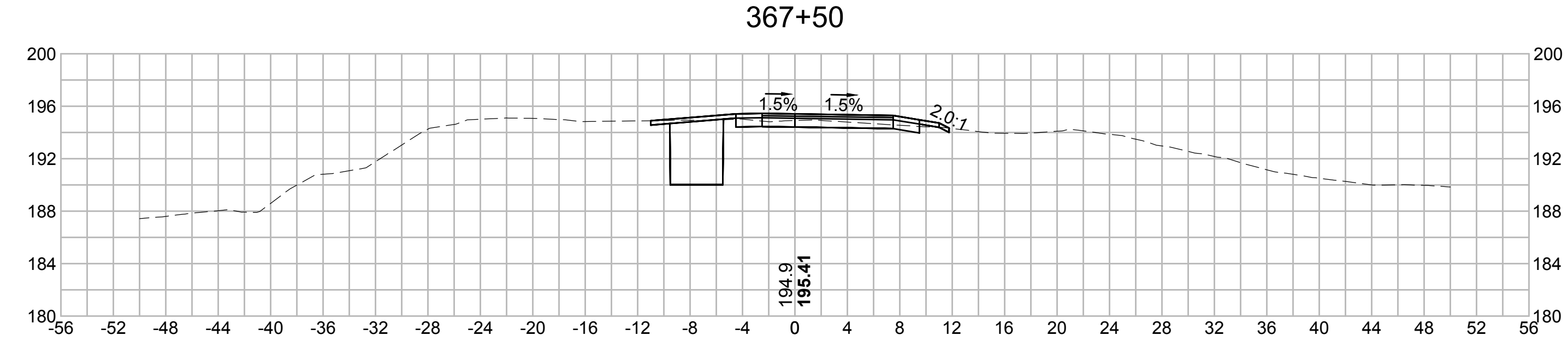
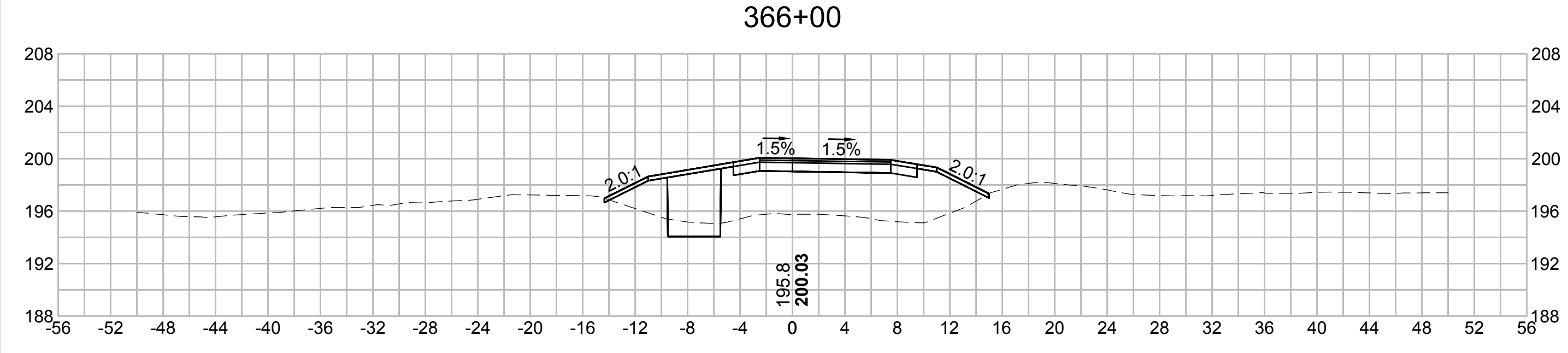
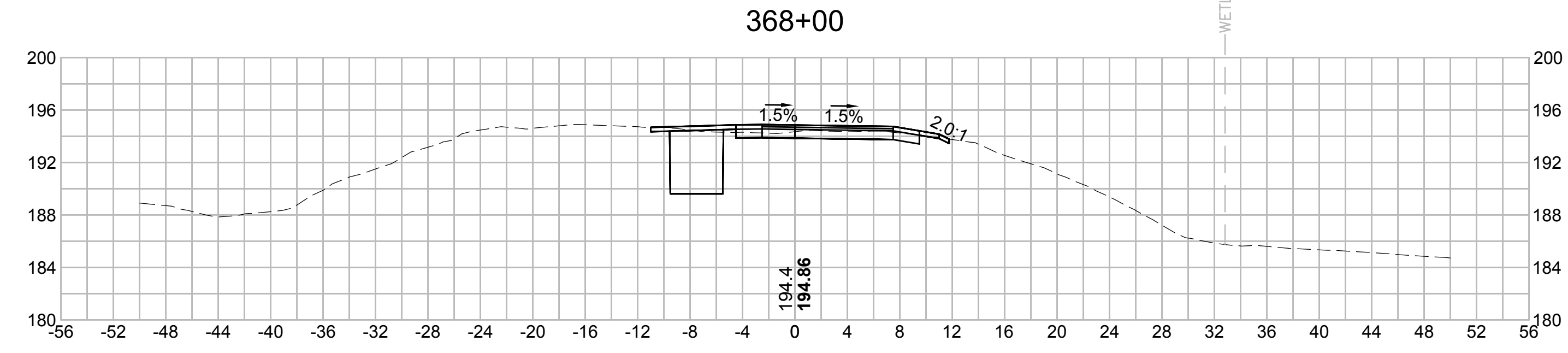
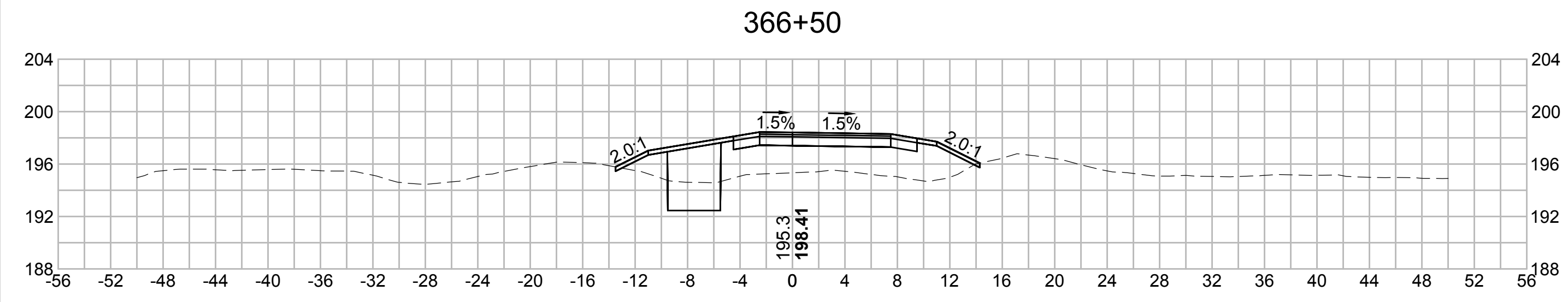
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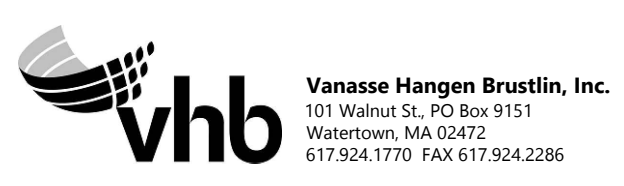
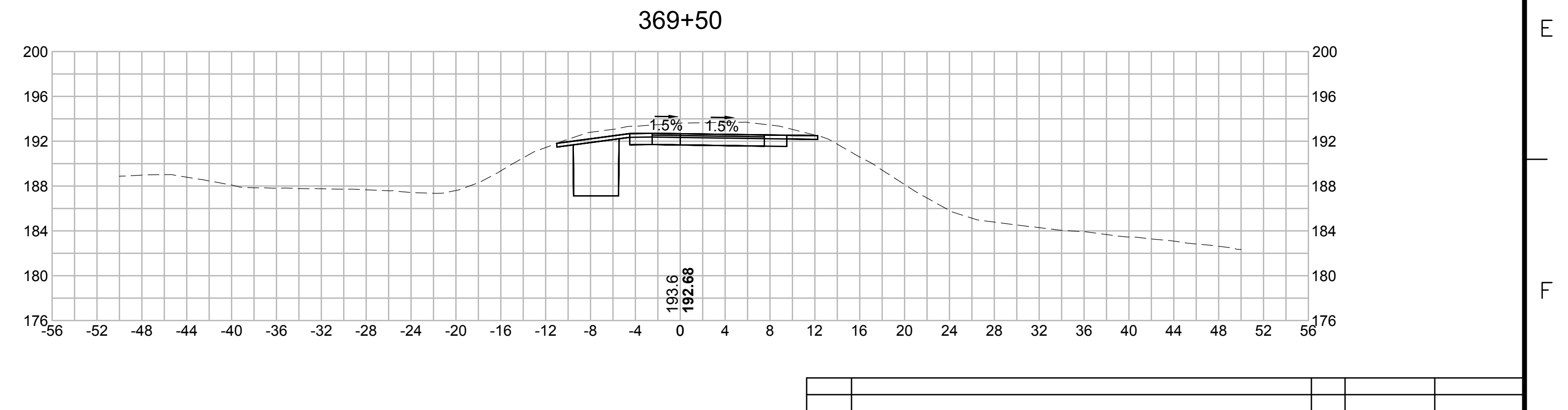
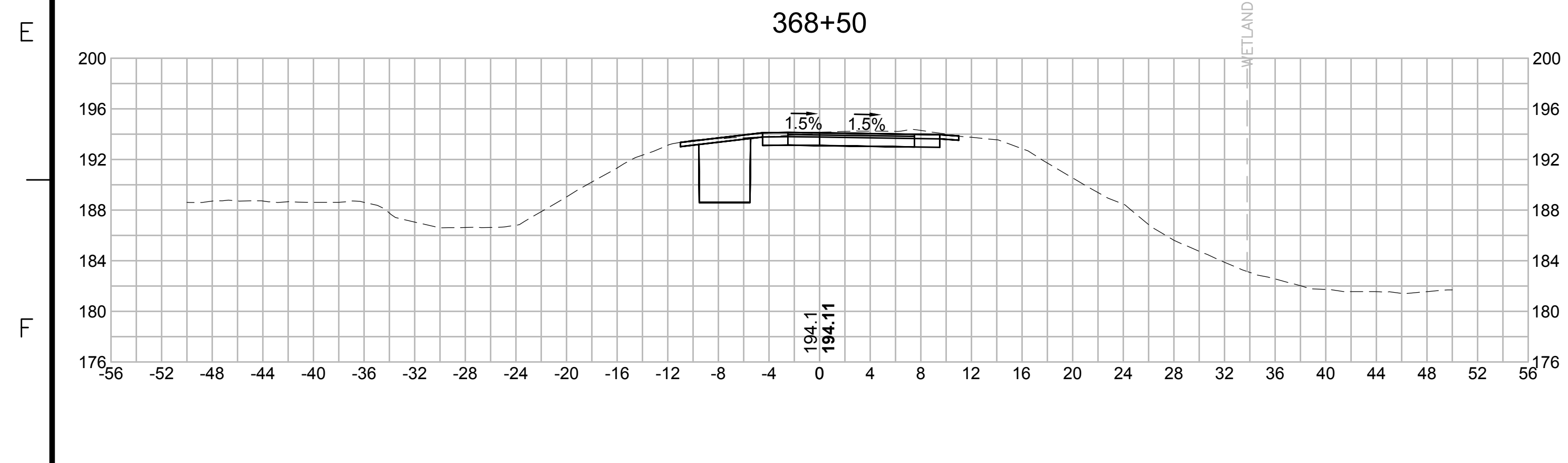
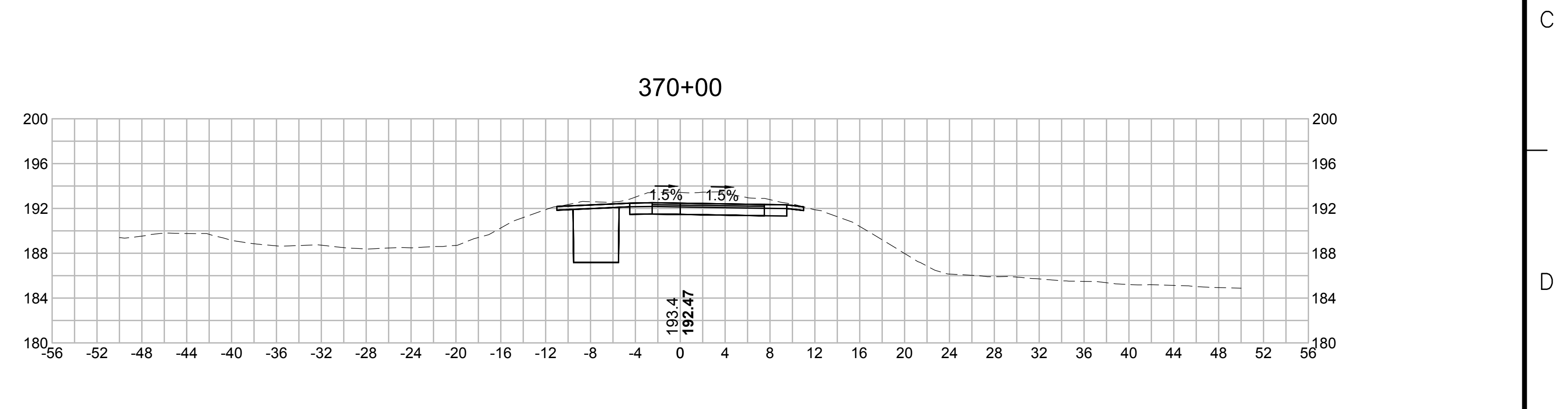
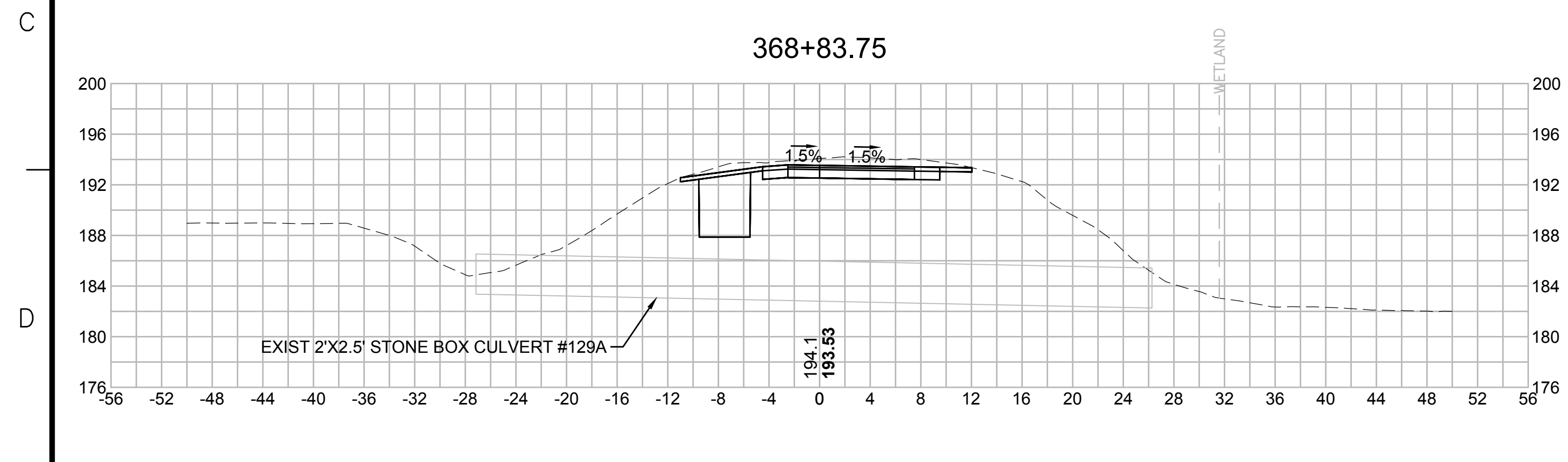
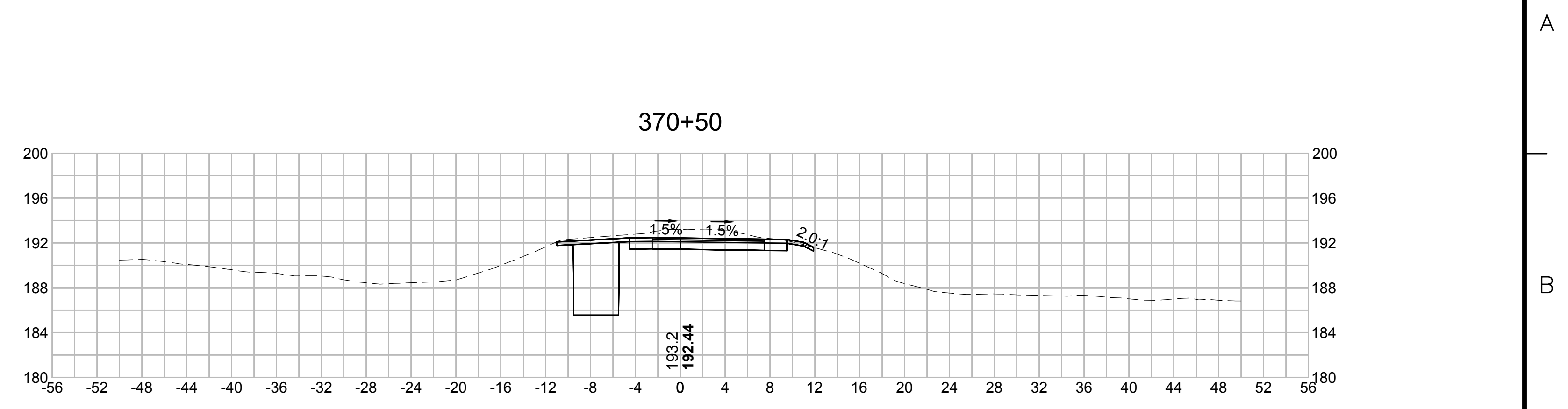
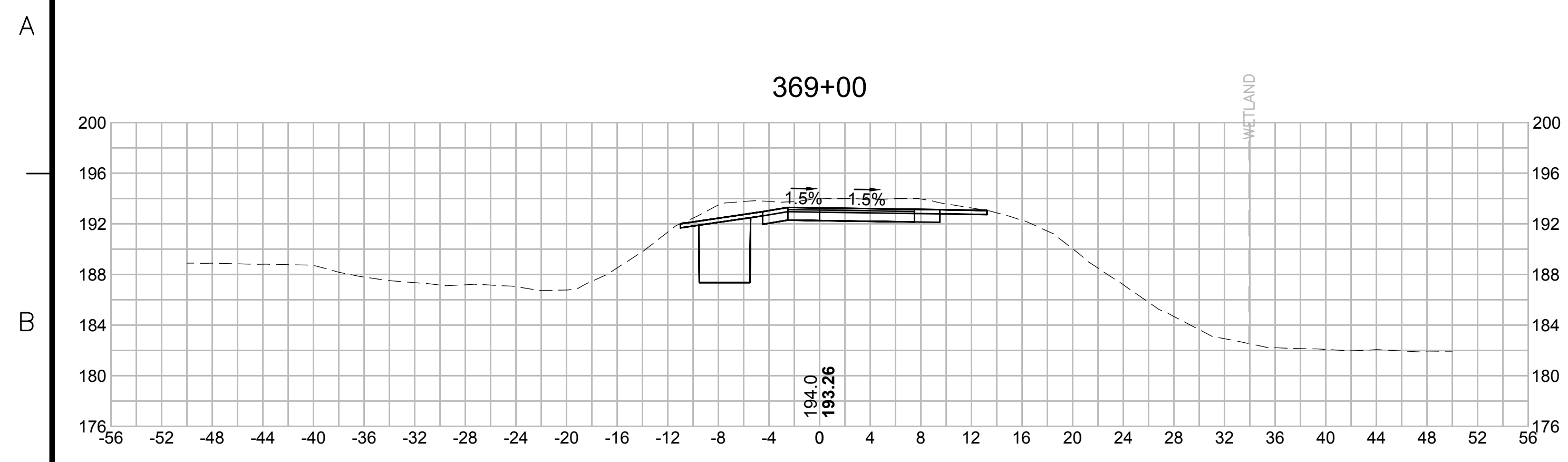
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| N O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 267OF348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 268 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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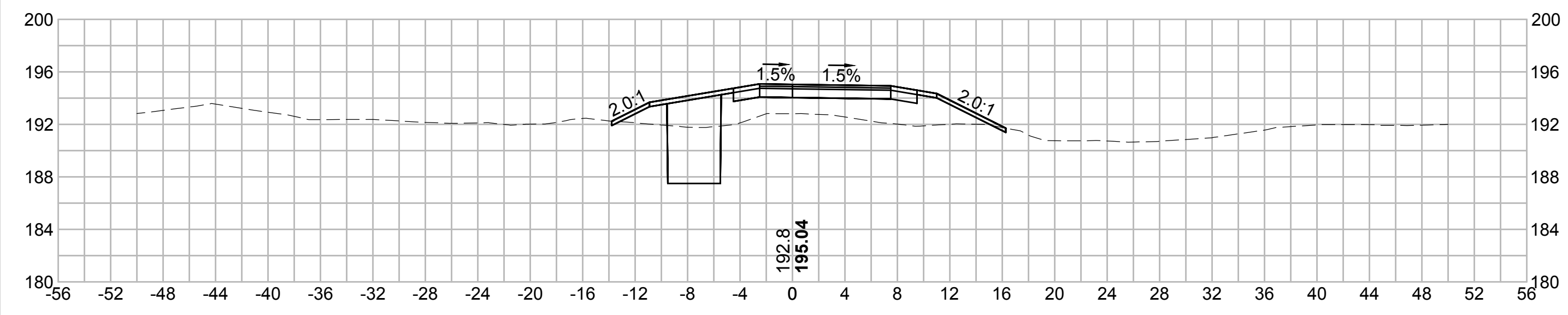
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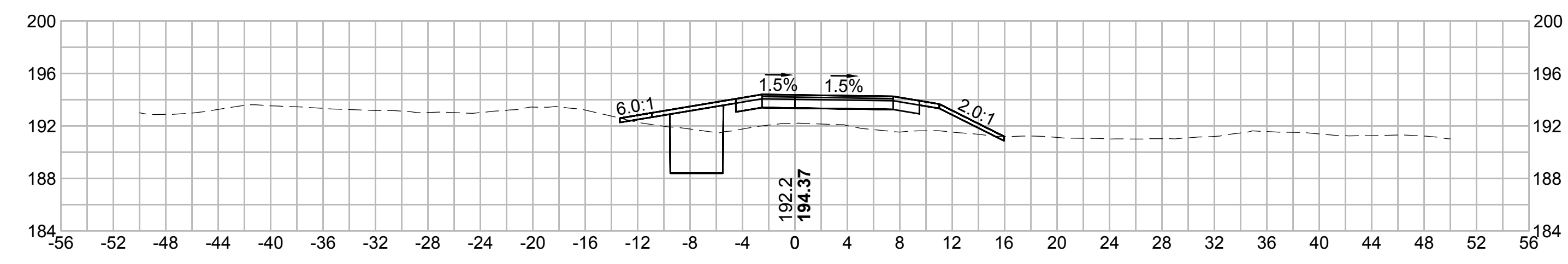
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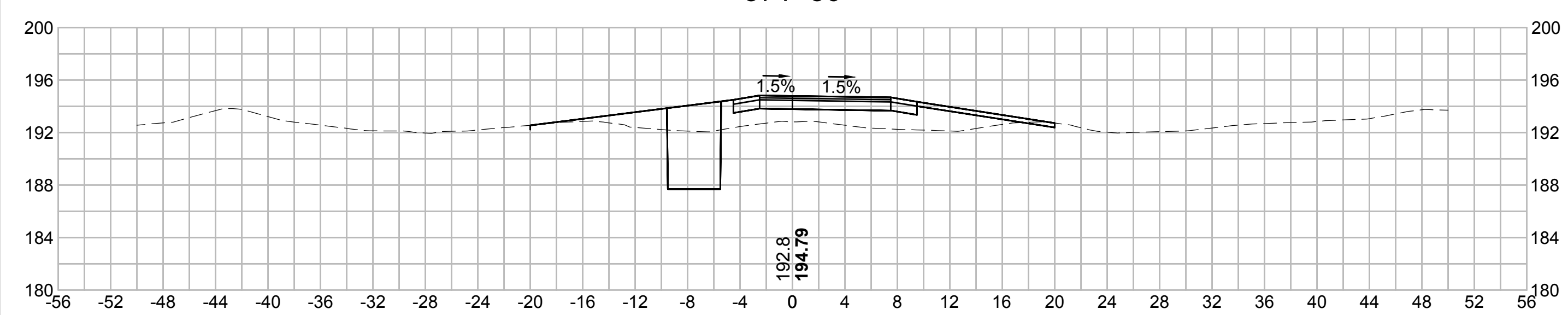
372+00



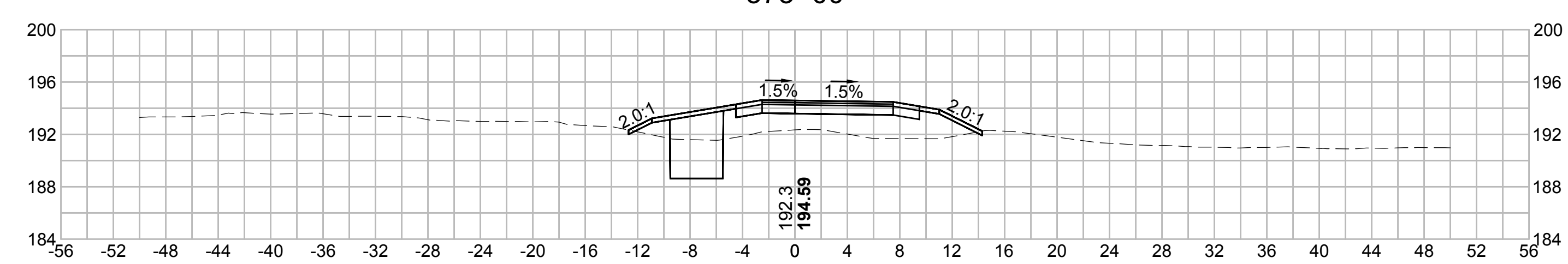
373+50



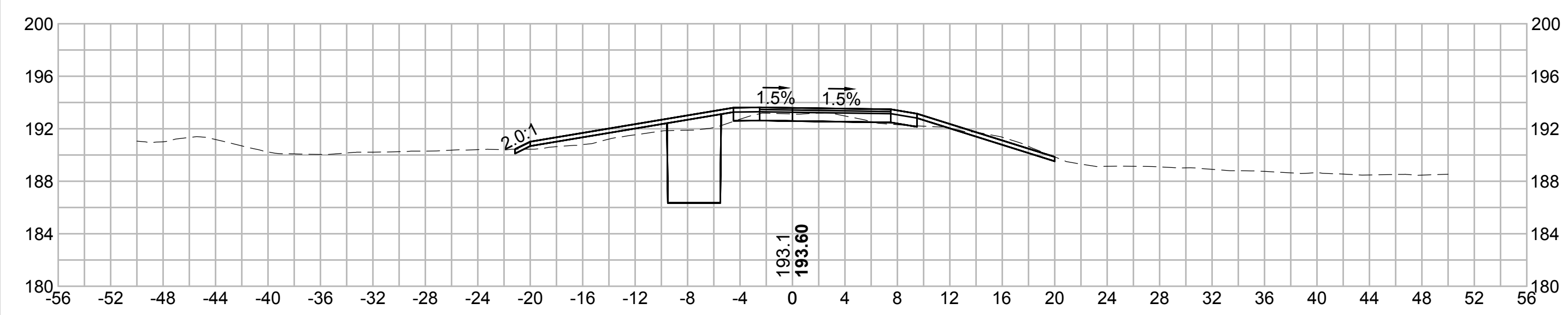
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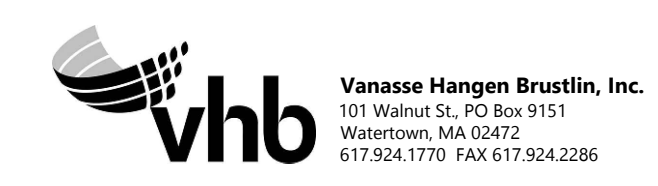
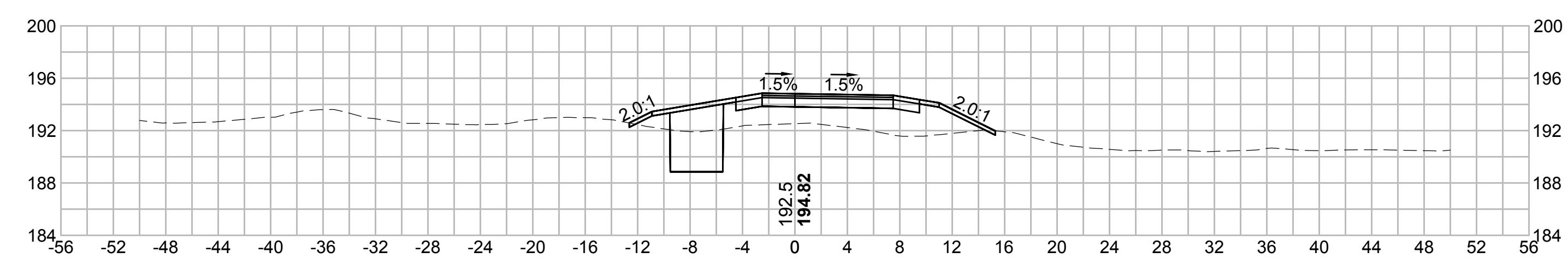
373+00



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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 2690F348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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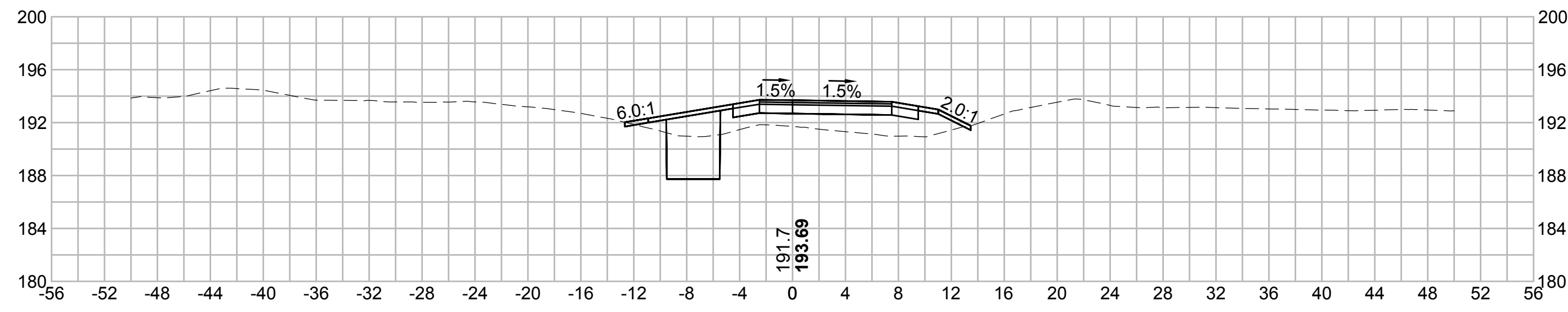
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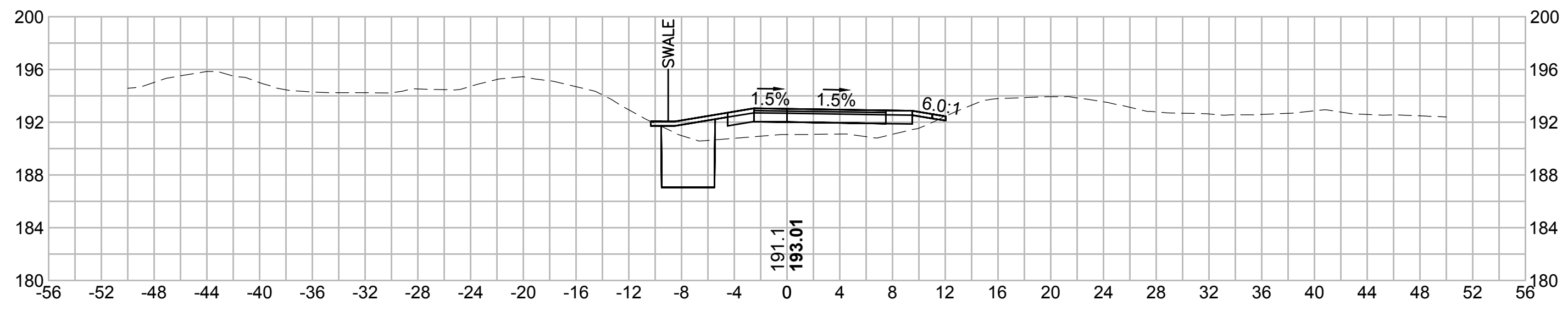
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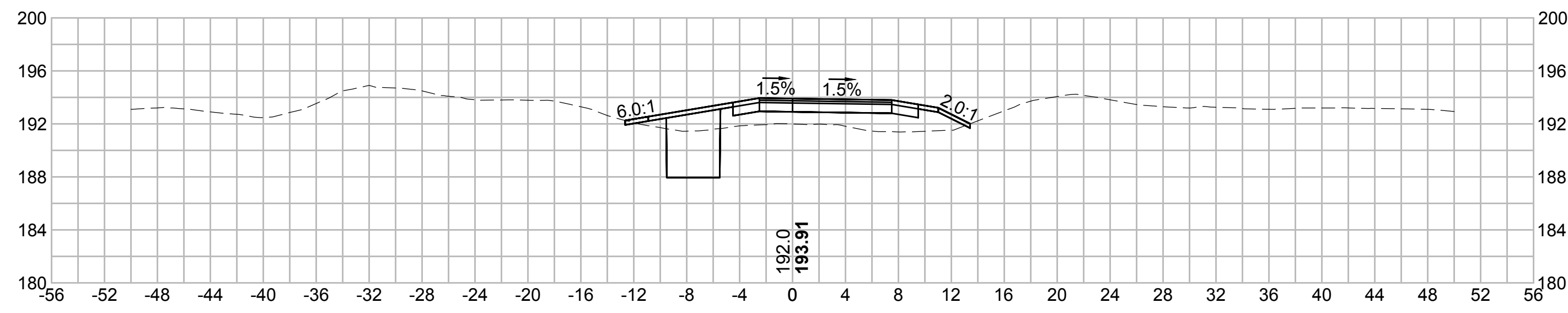
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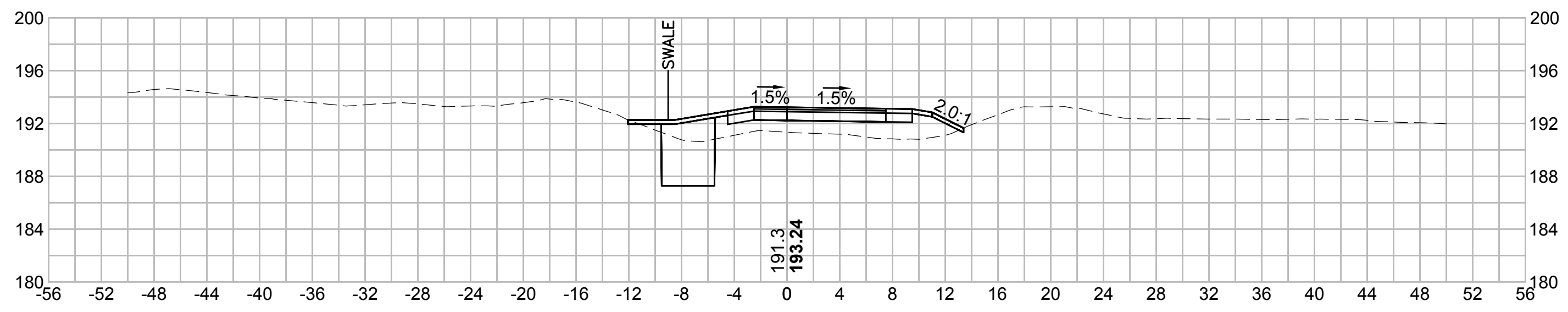
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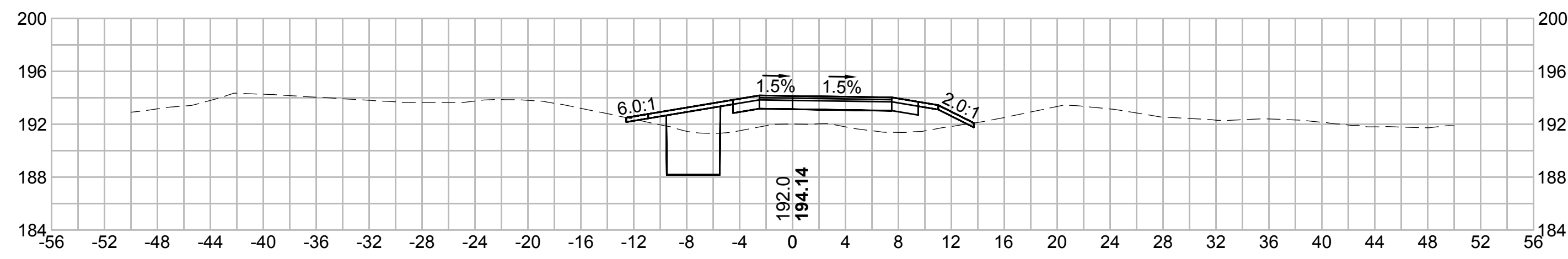
374+50



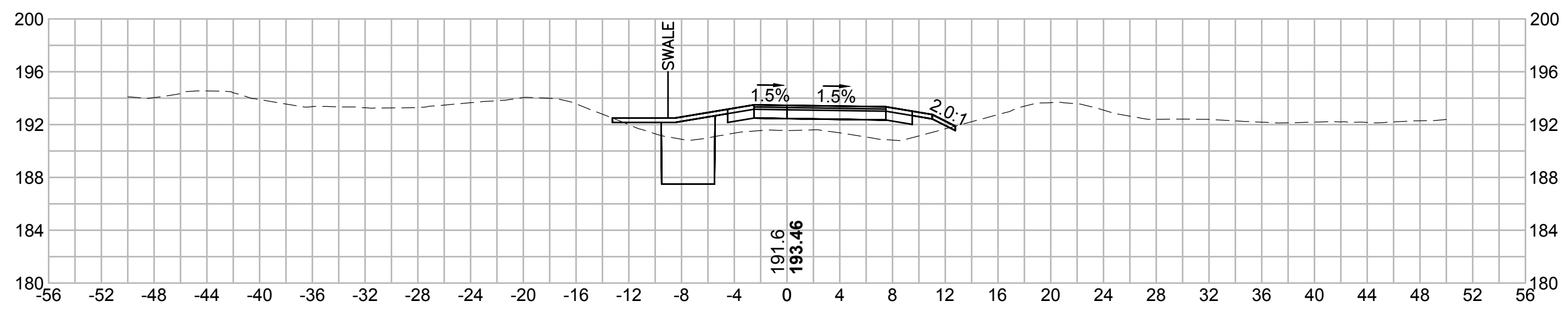
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 2700F348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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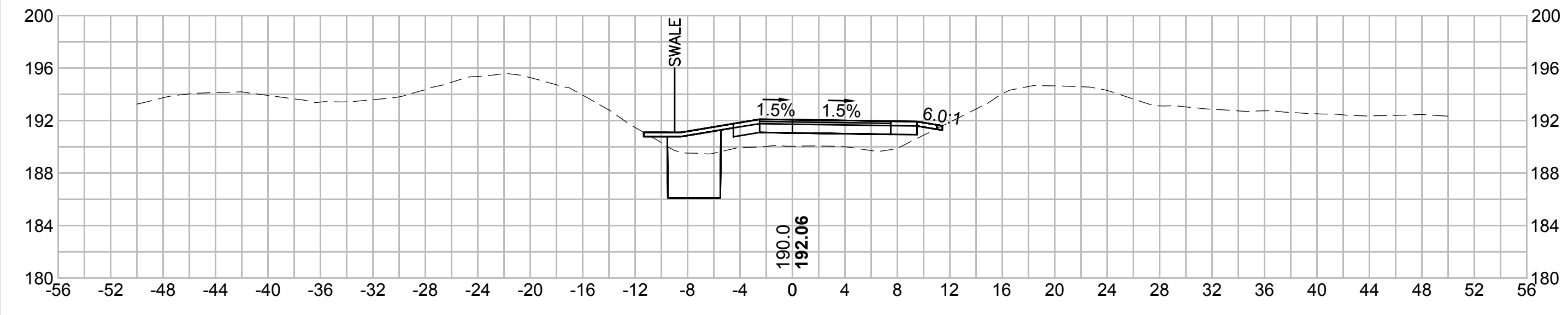
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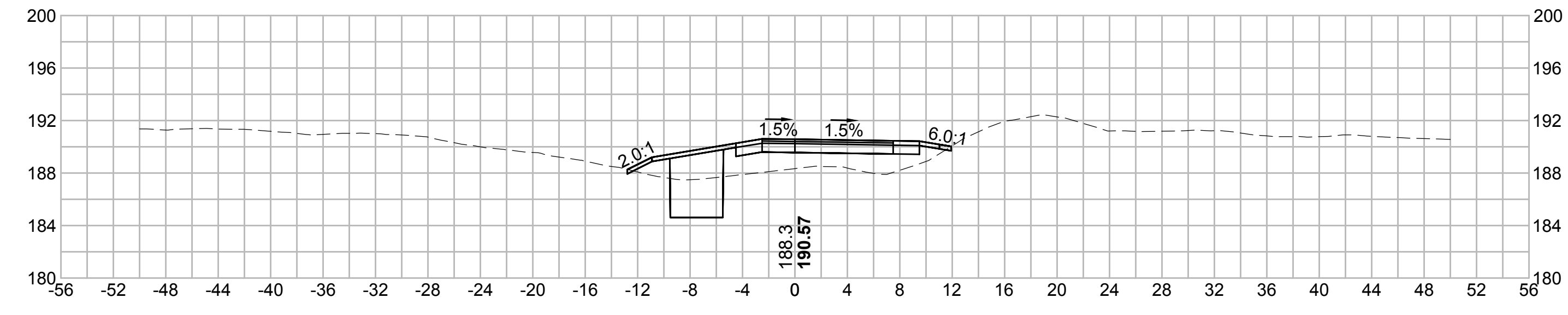
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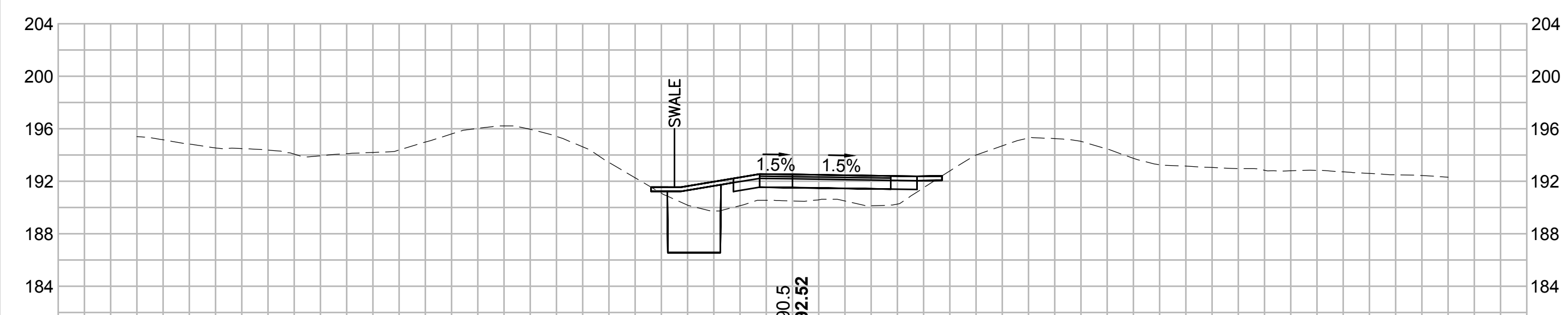
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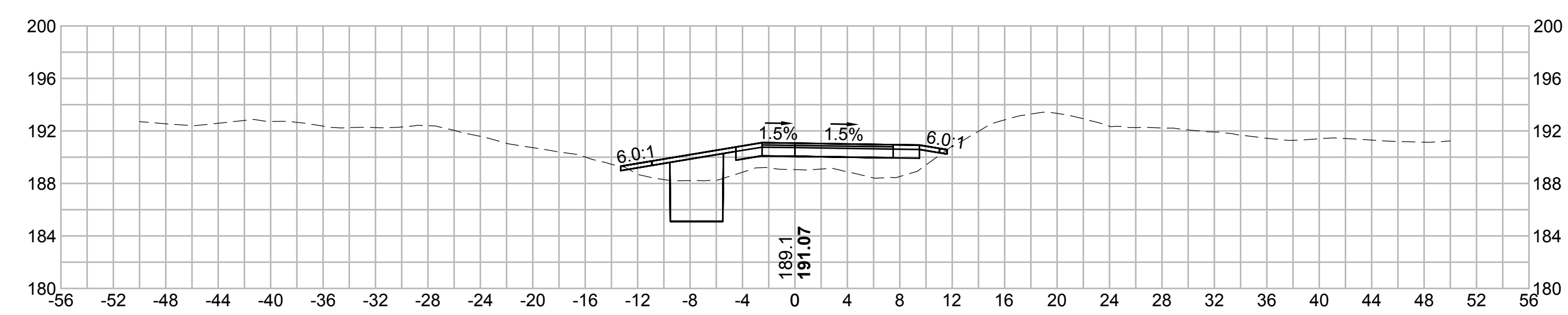
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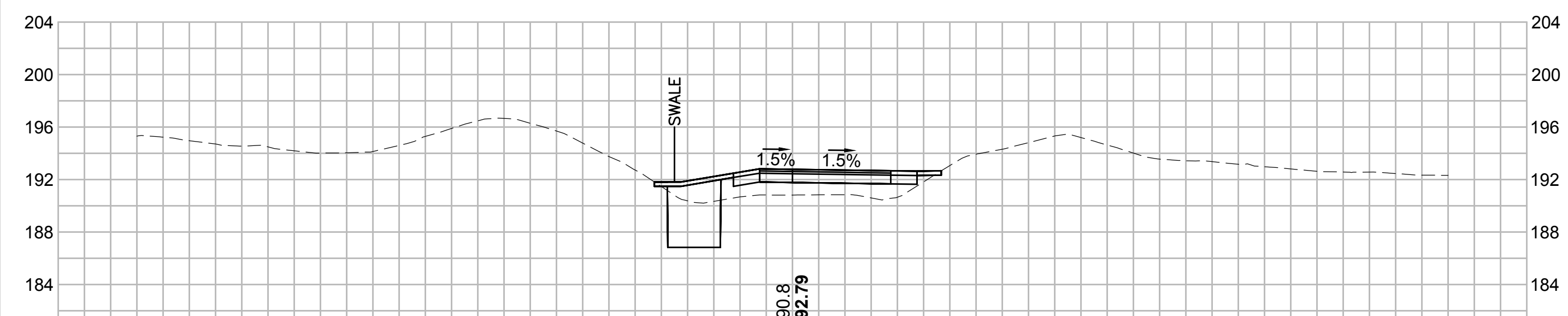
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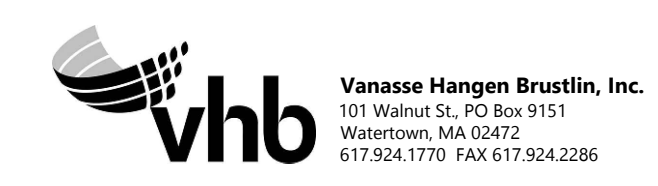
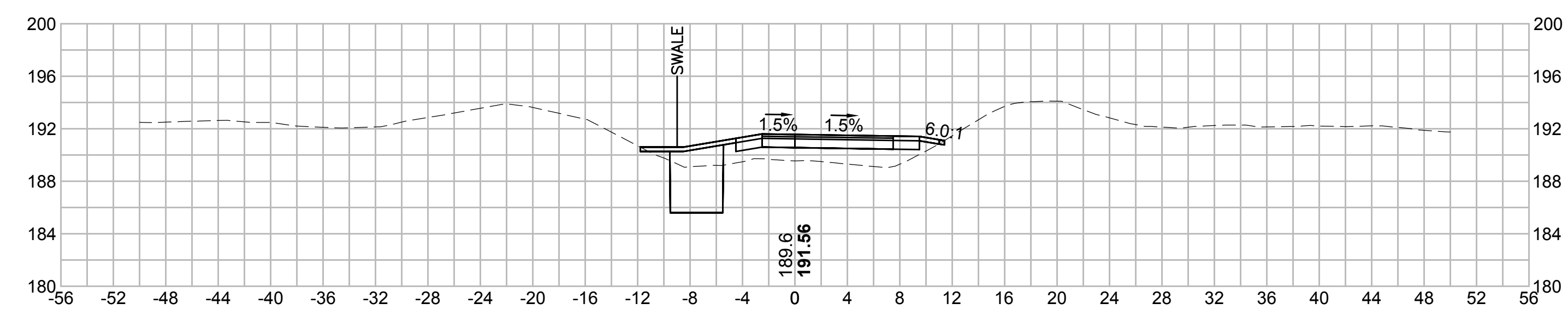
379+00



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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 271 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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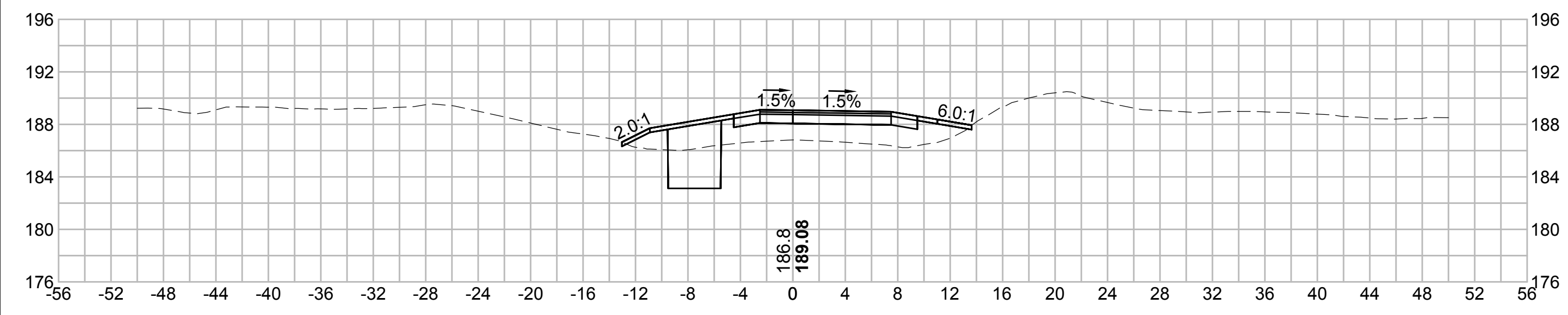
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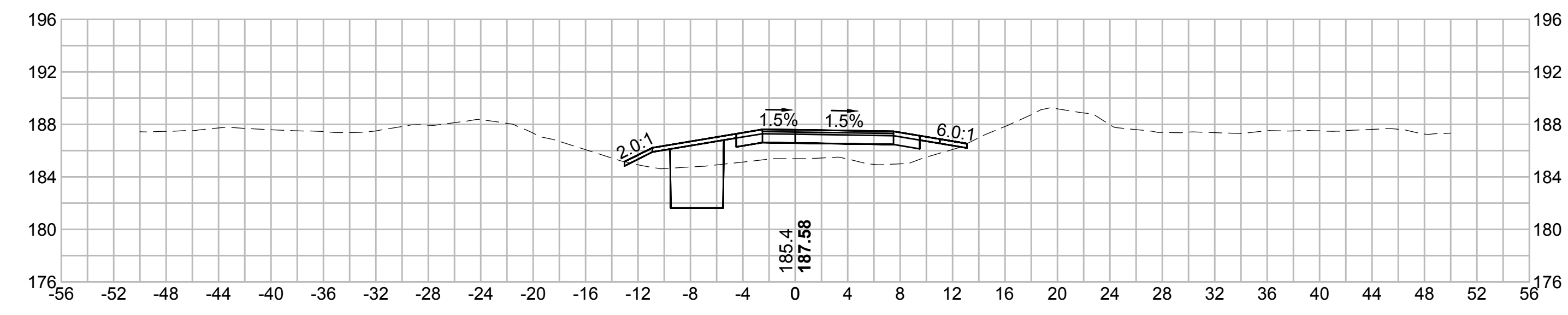
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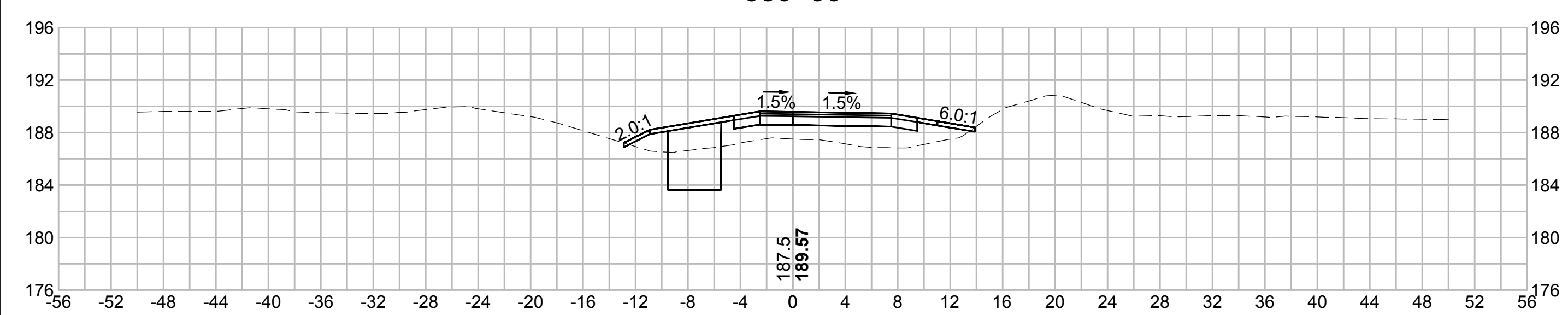
381+00



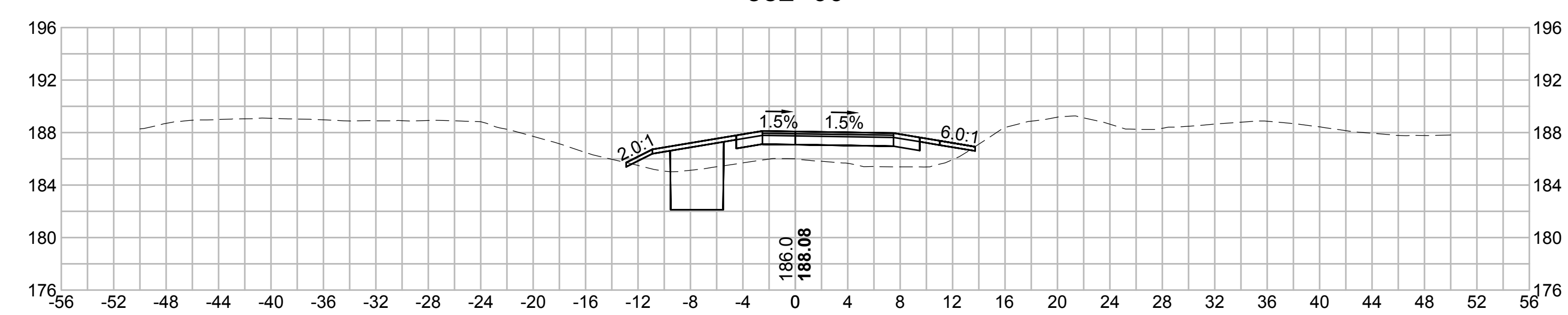
382+50



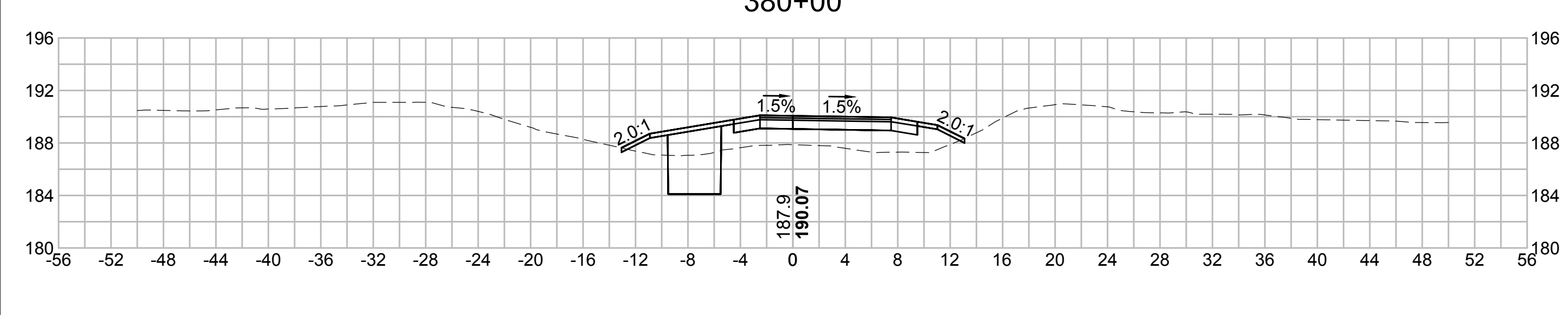
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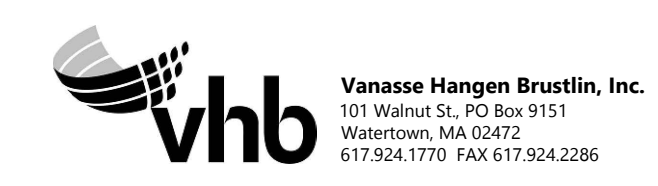
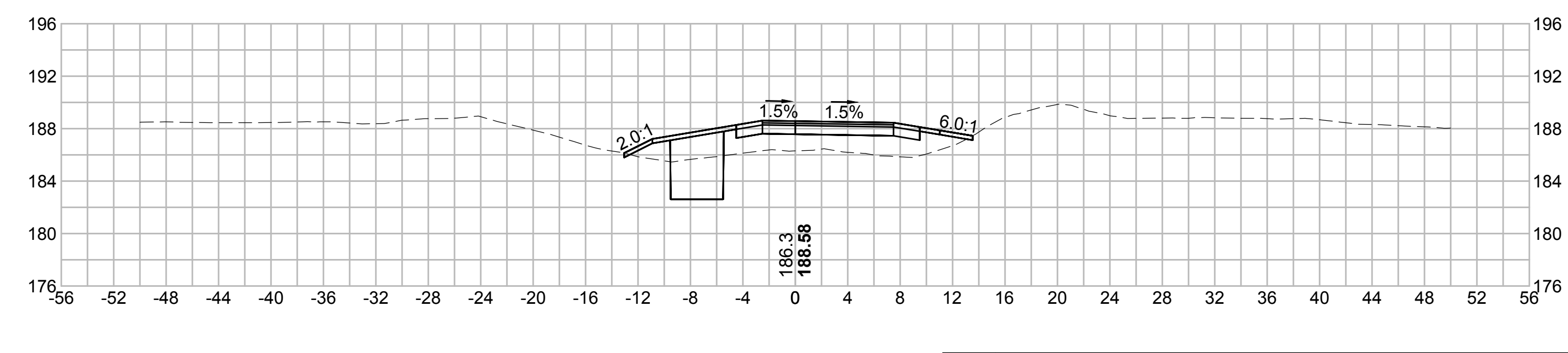
382+00



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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 272 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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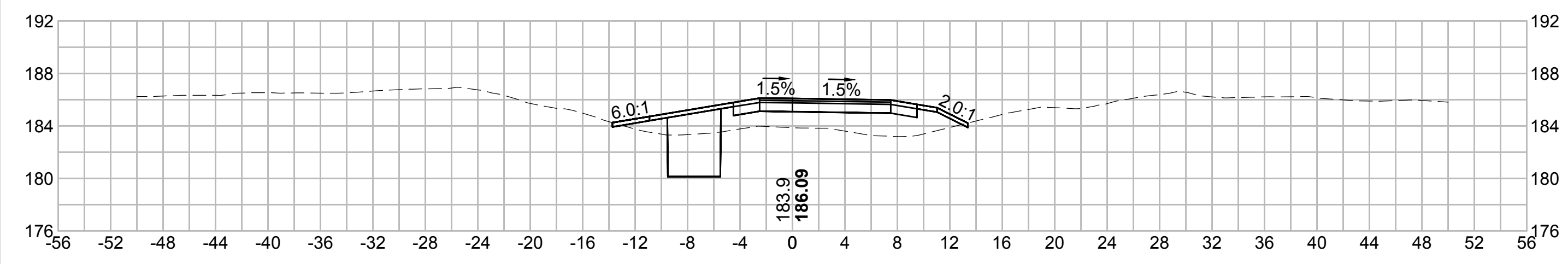
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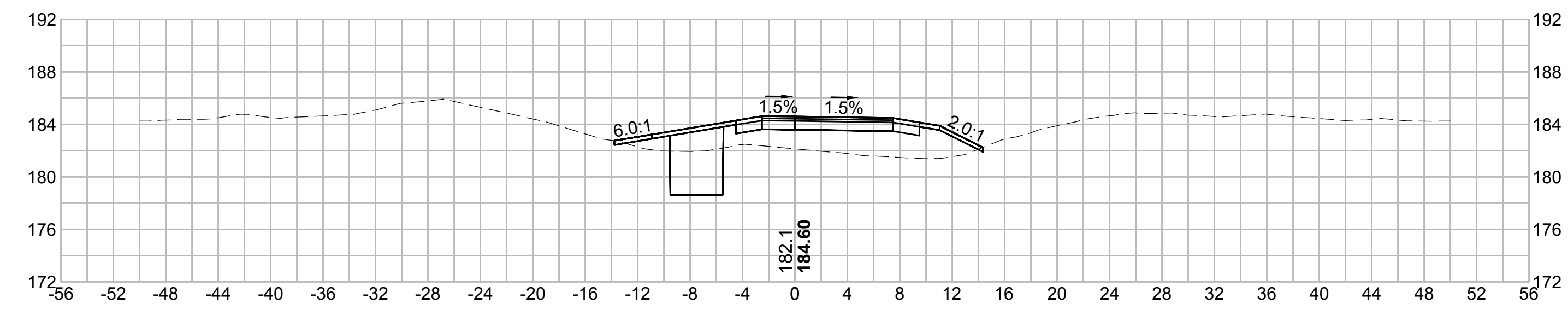
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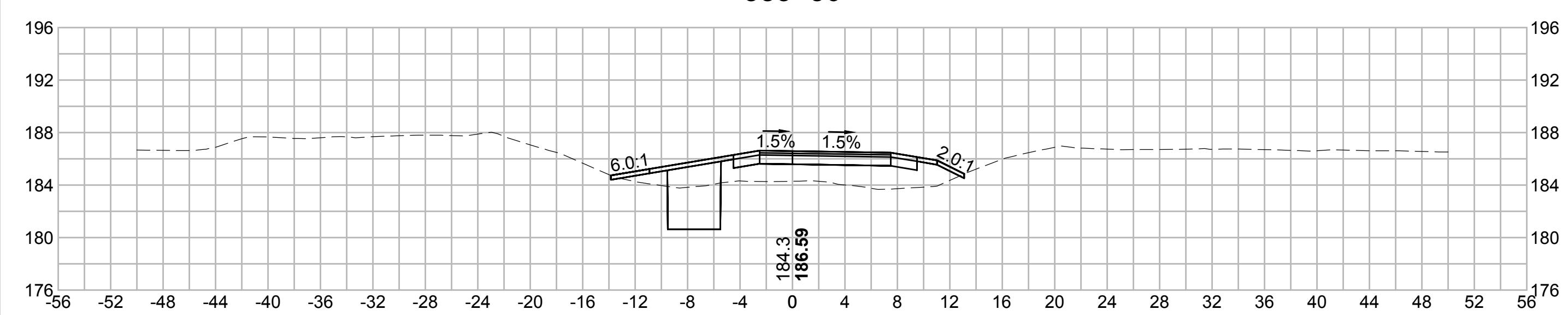
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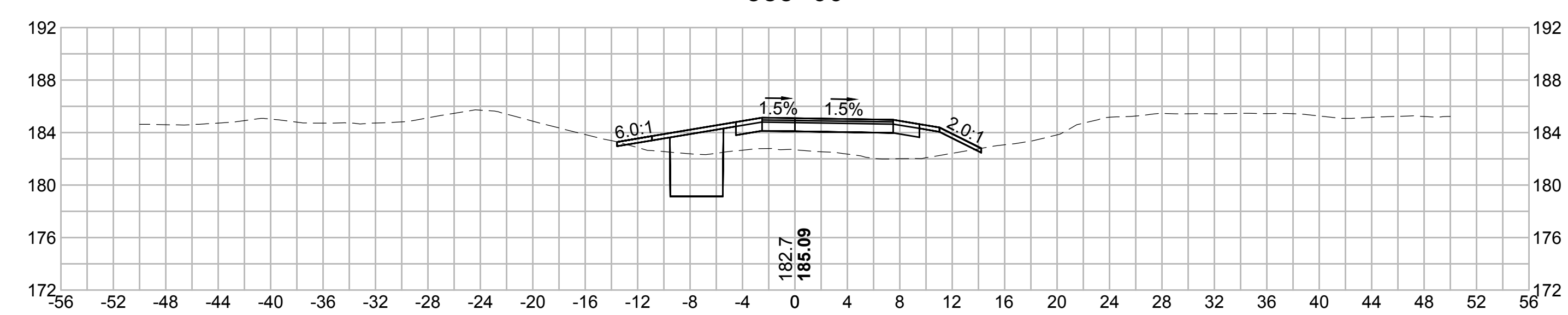
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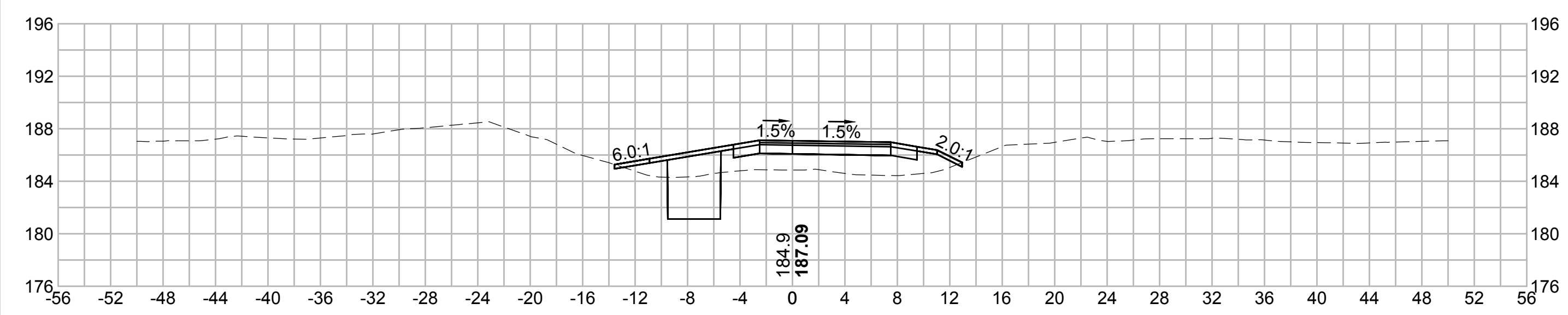
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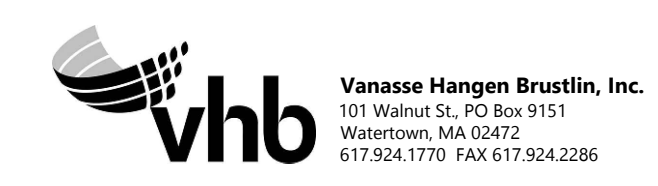
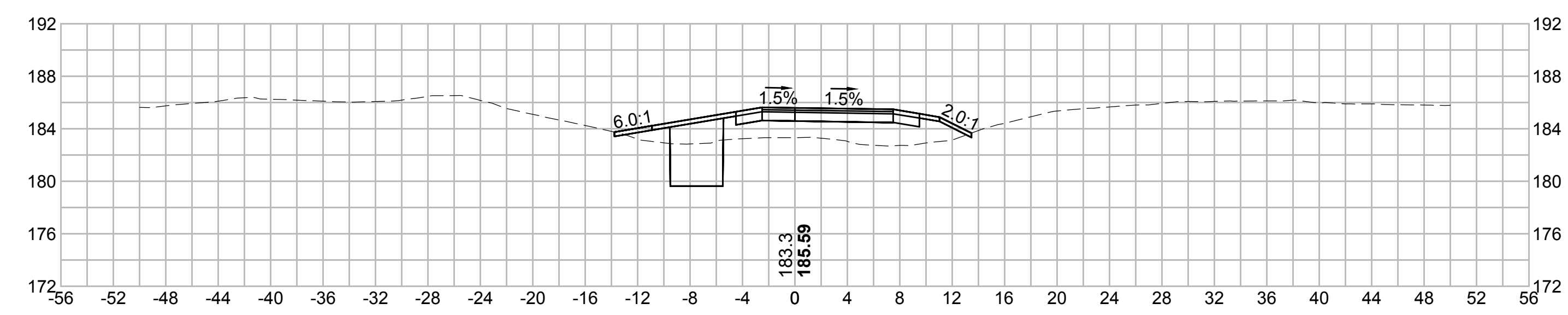
385+00



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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 2730F348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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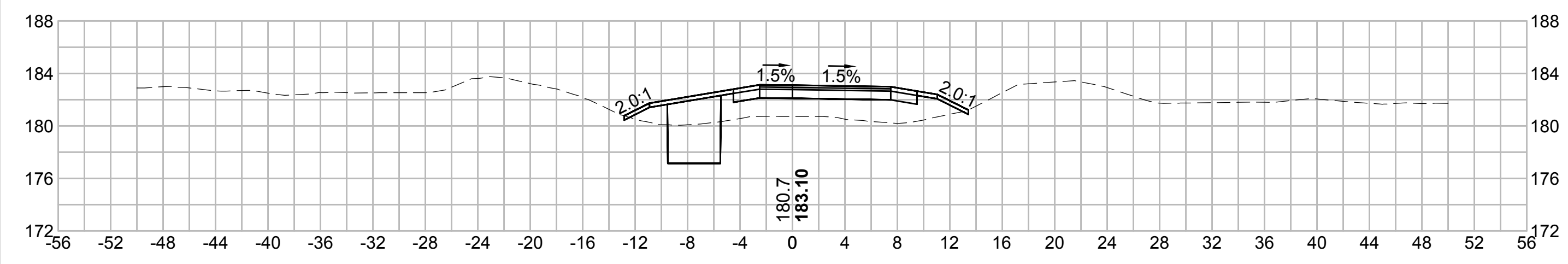
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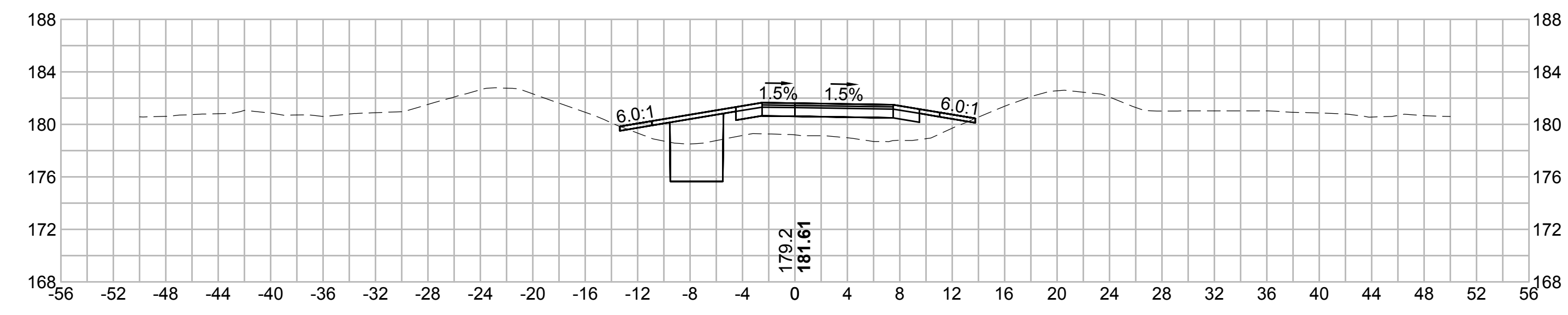
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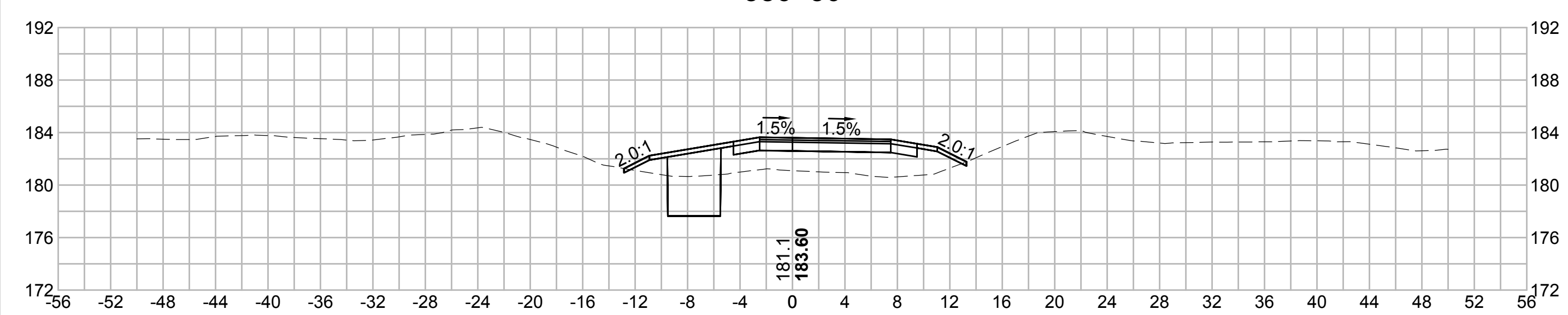
387+00



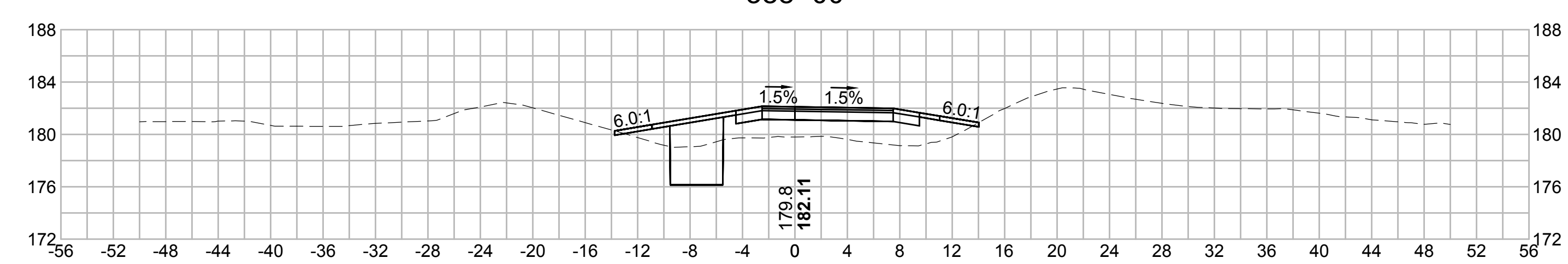
388+50



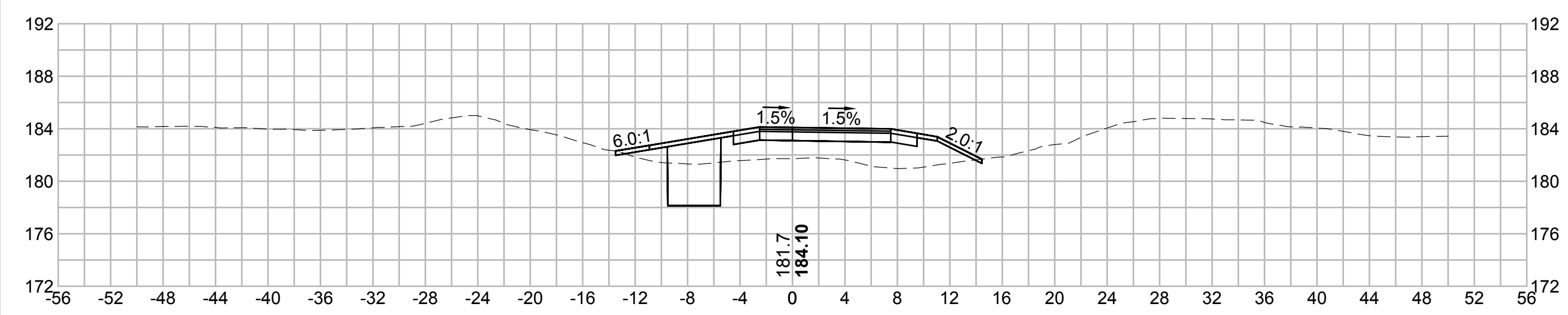
386+50



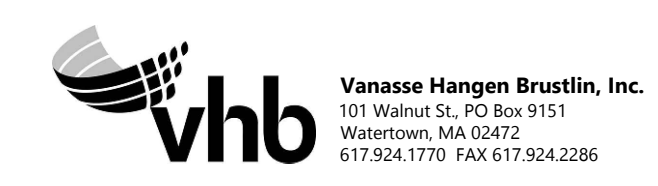
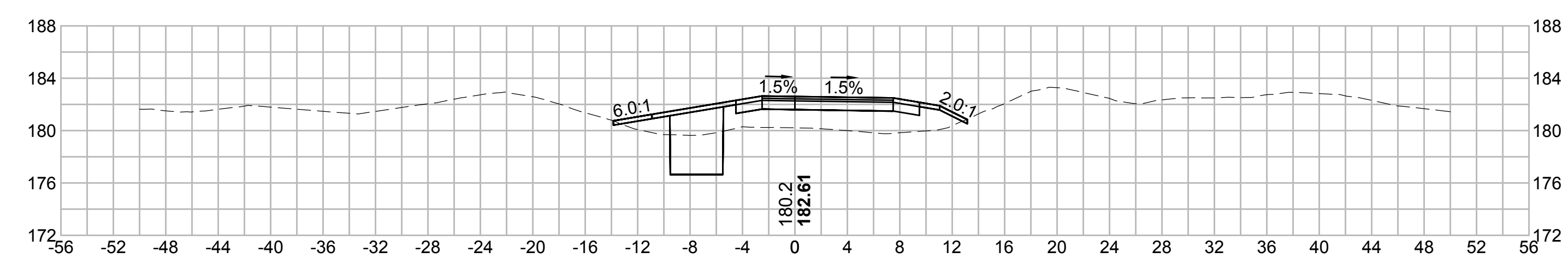
388+00



386+00



387+50



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|---------------|-----------------|
| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 274 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

1 2 3 4 5 6 7 8 9 10 11

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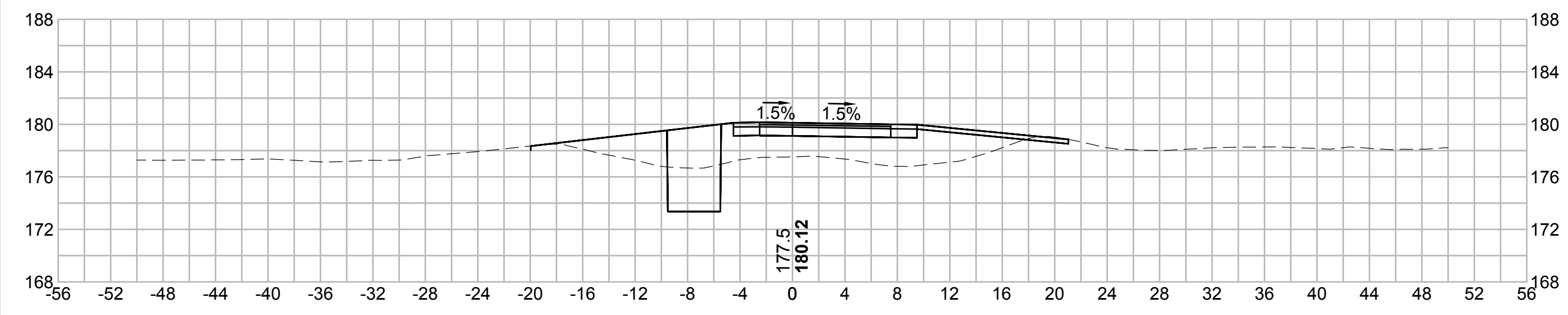
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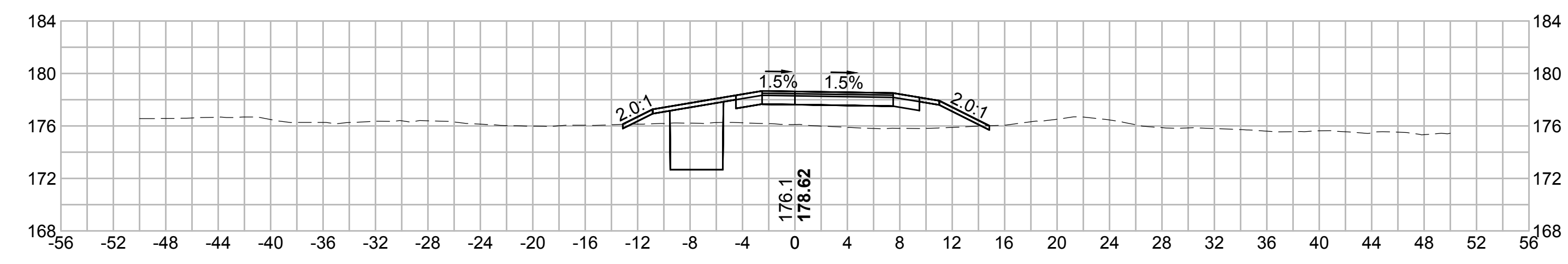
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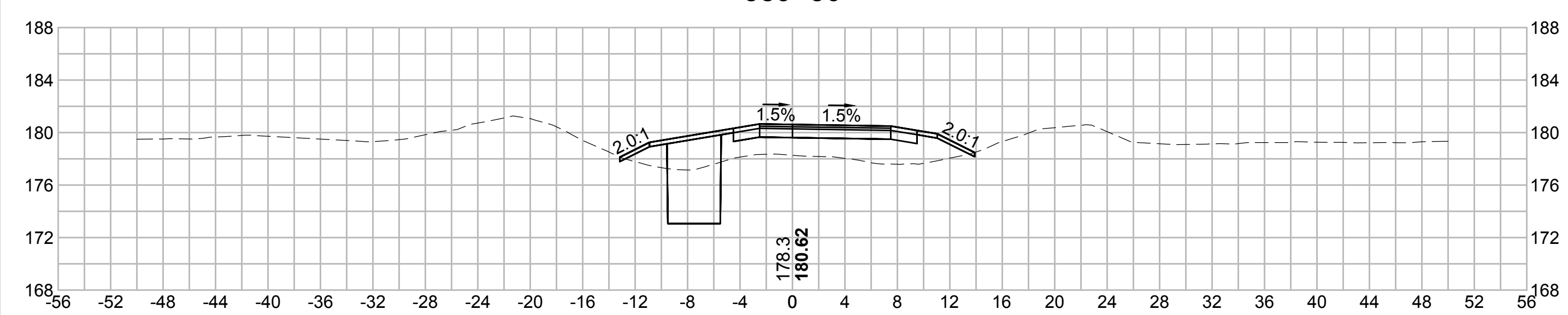
390+00



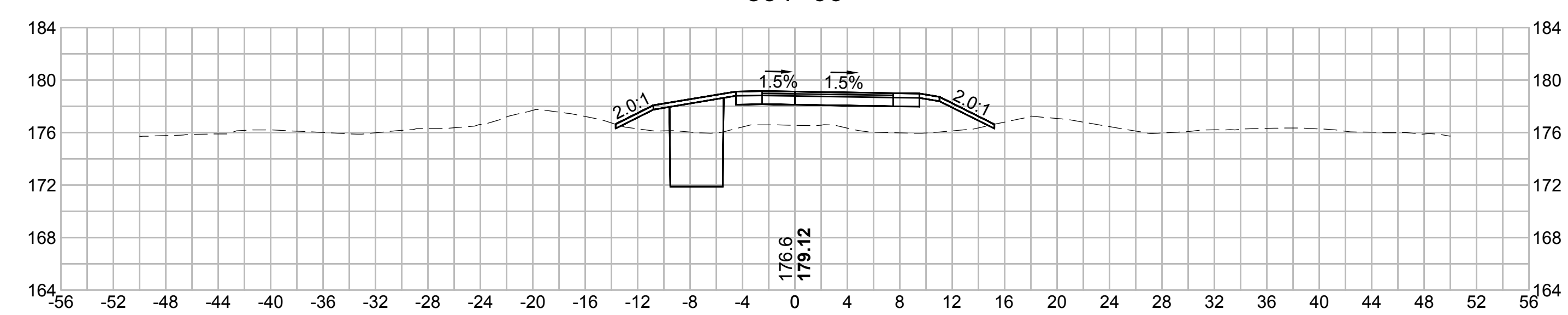
391+50



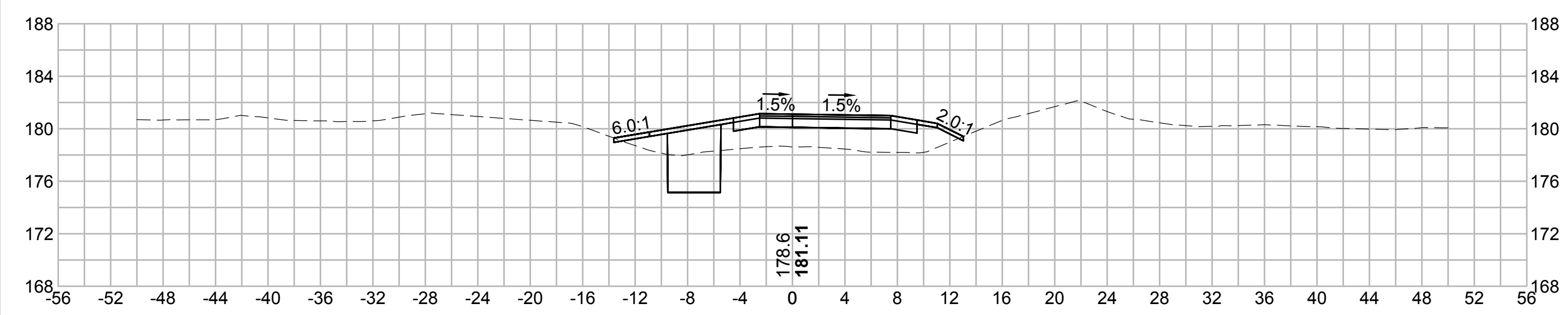
389+50



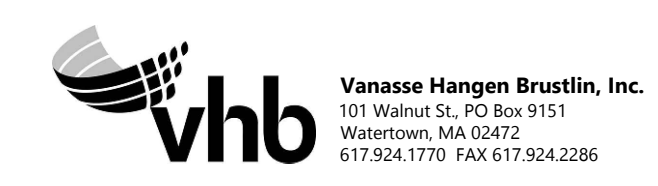
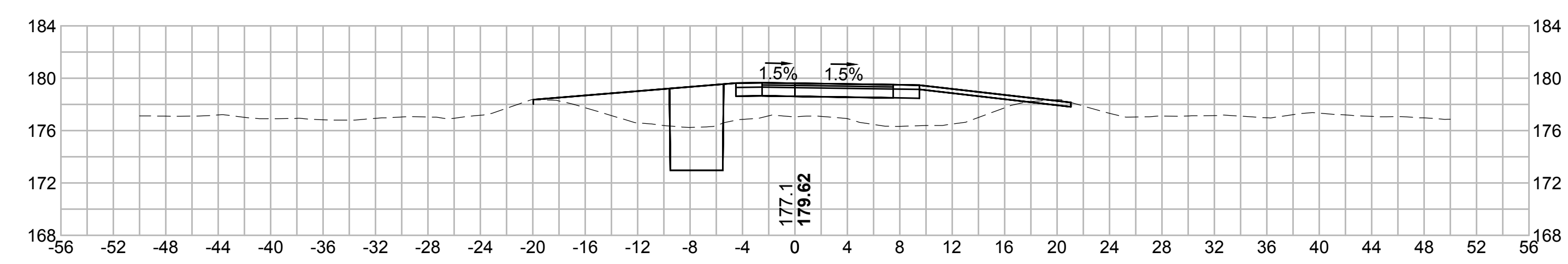
391+00



389+00



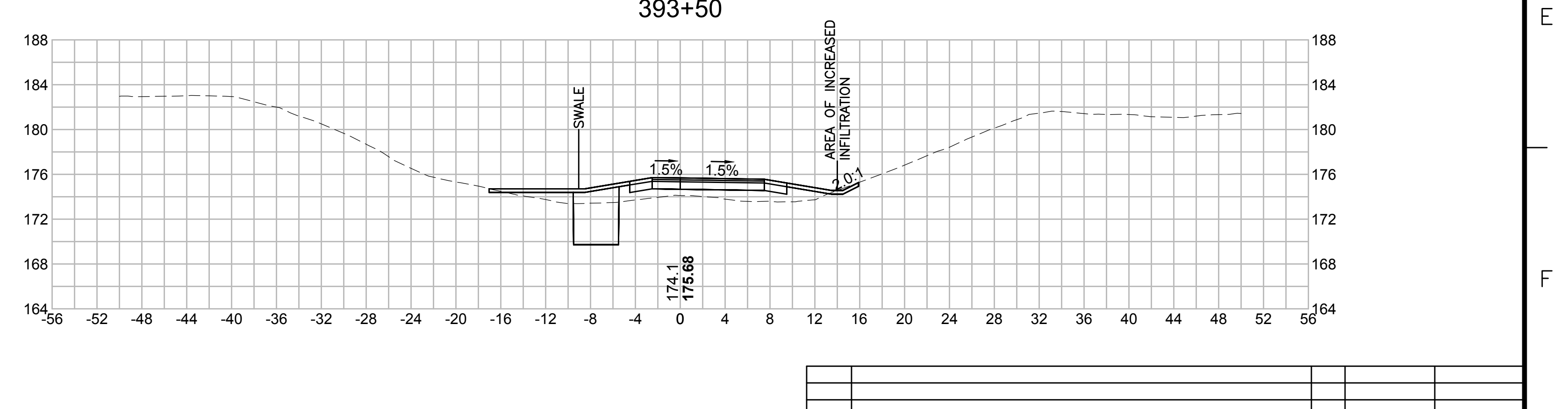
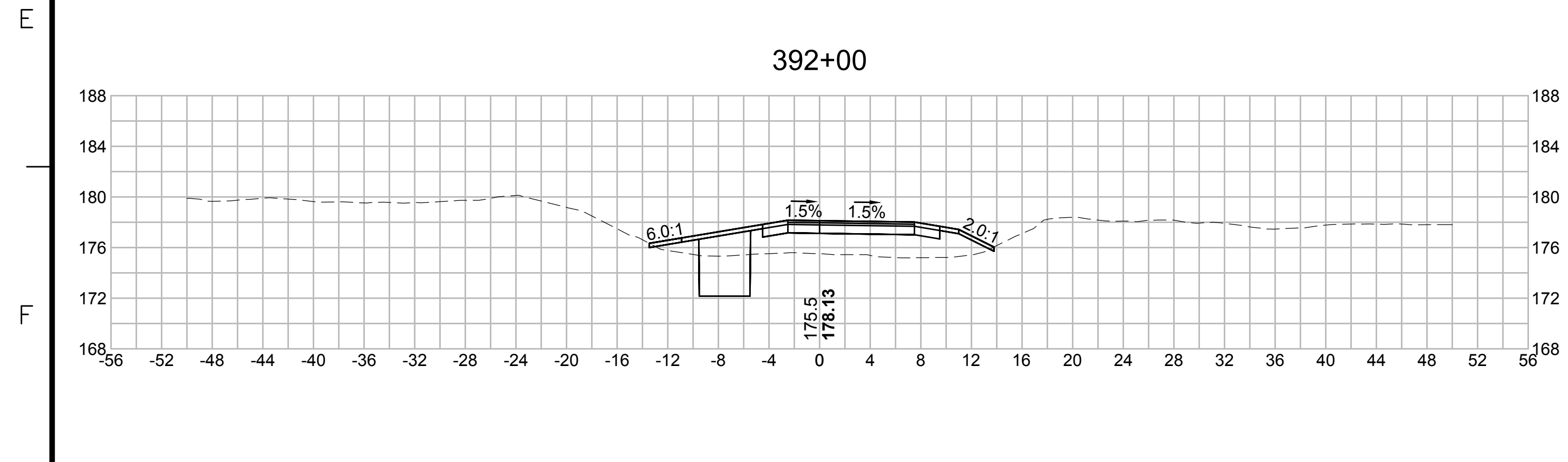
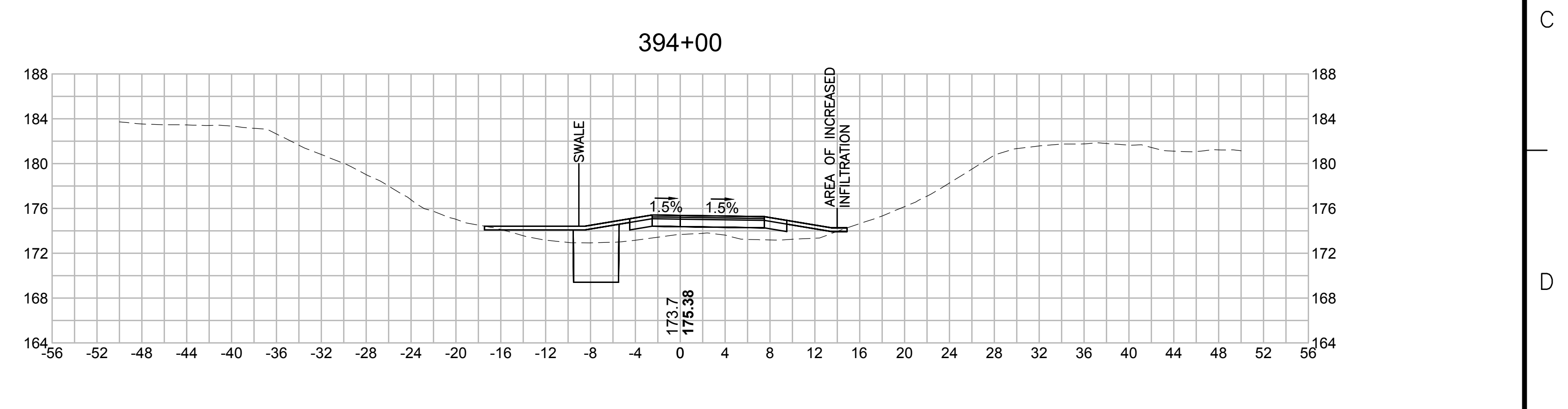
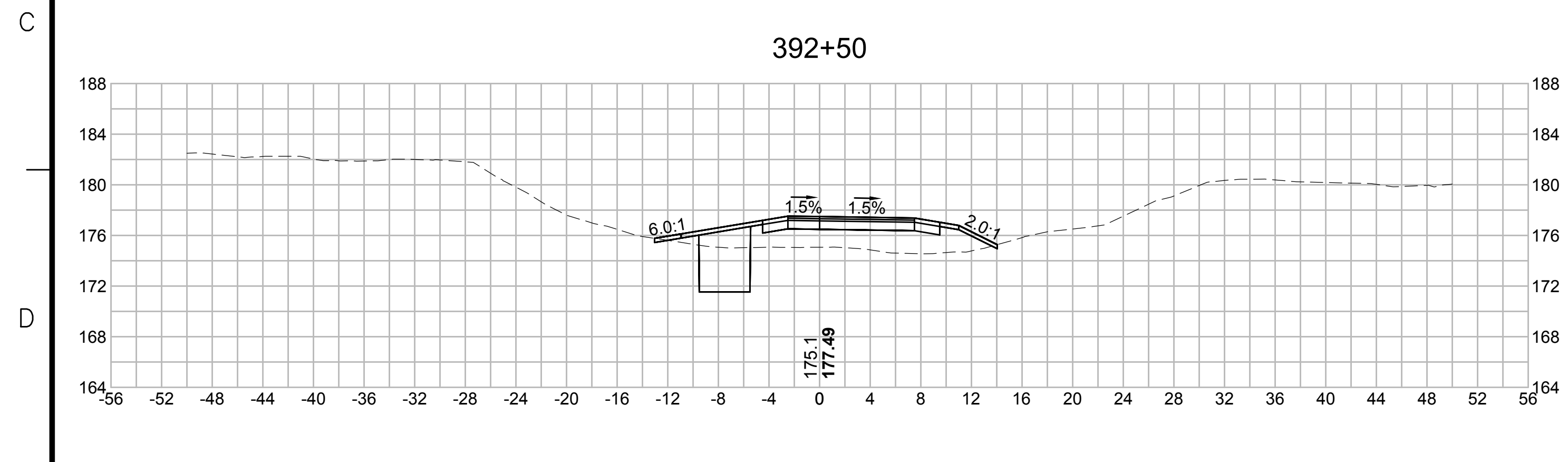
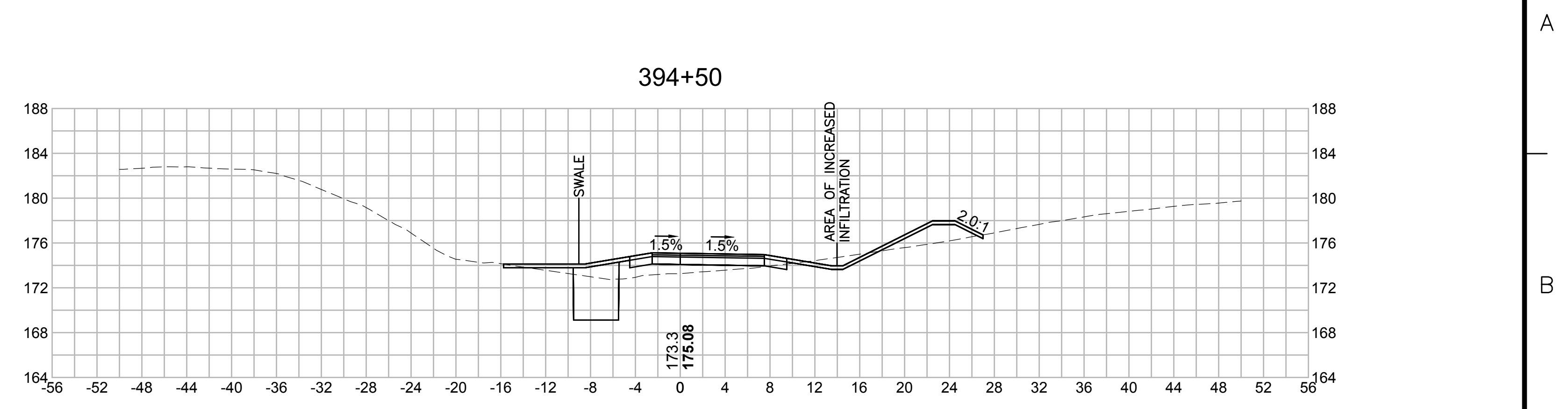
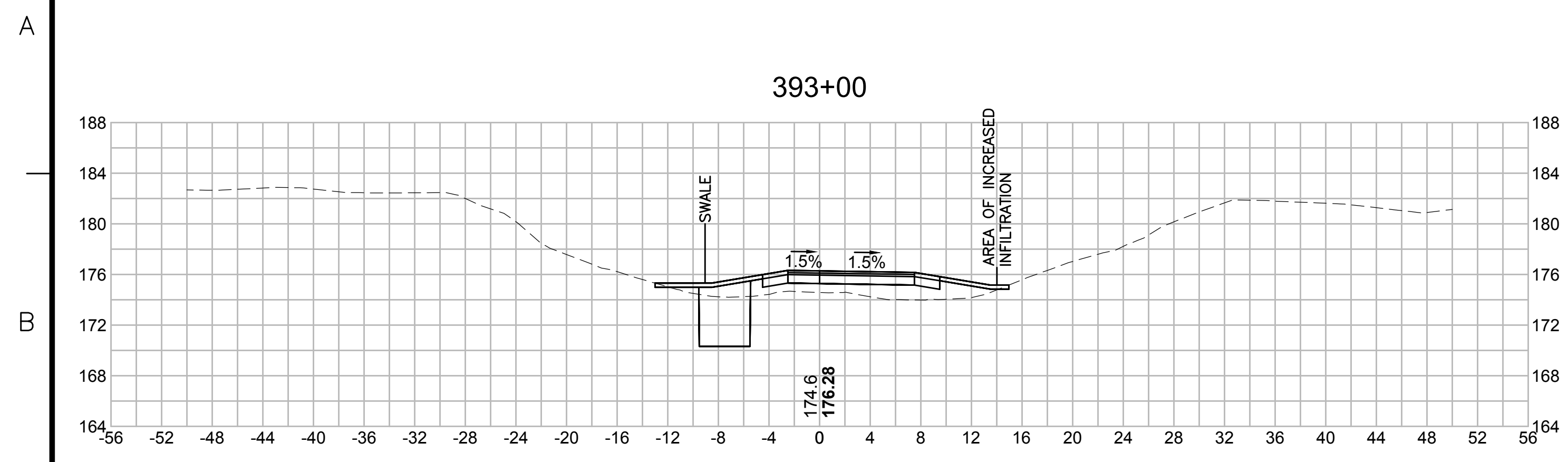
390+50



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|---------------|-----------------|
| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 275 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

1 2 3 4 5 6 7 8 9 10 11

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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 276 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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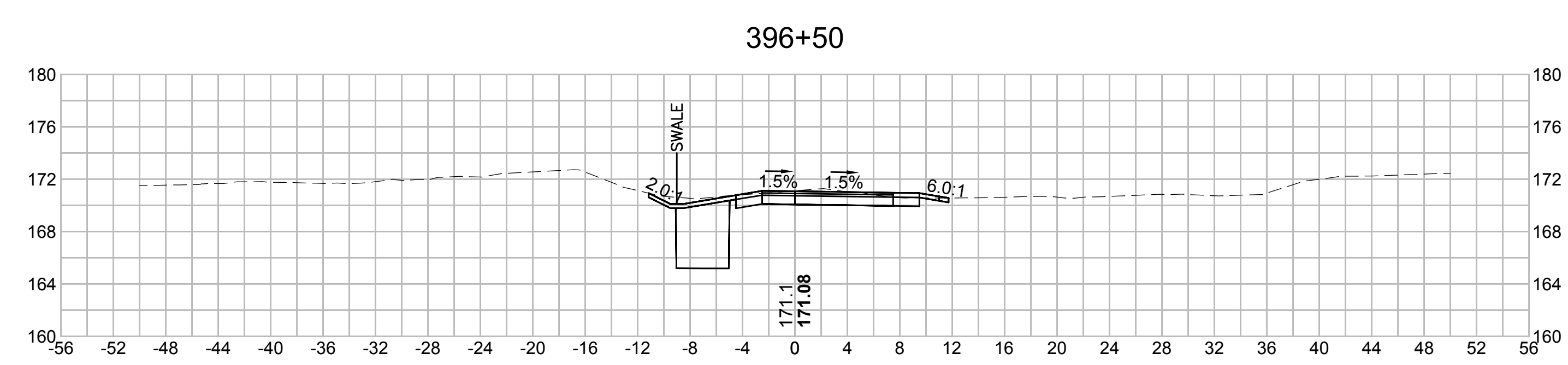
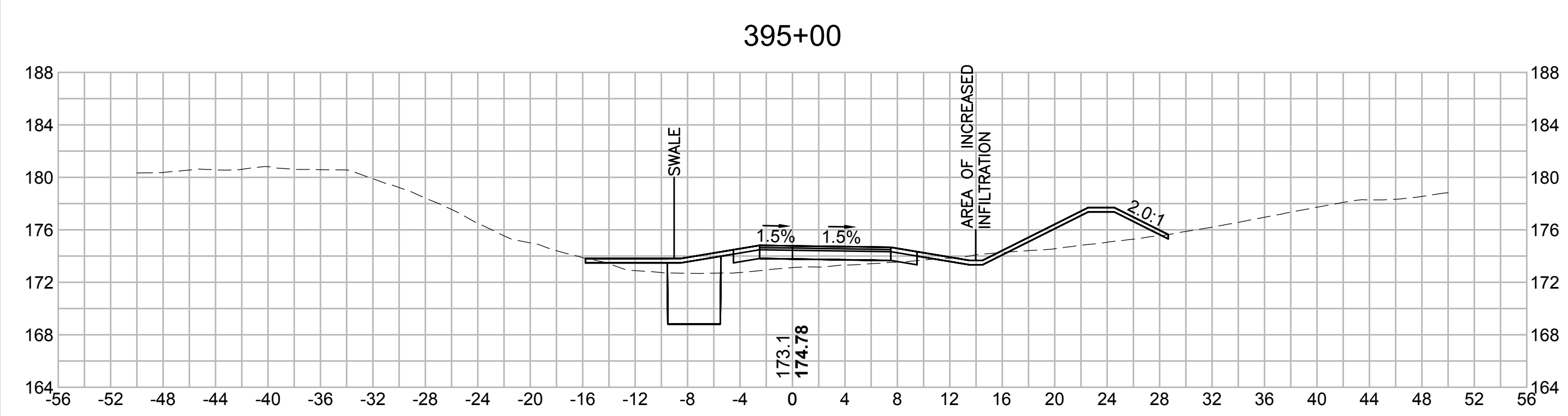
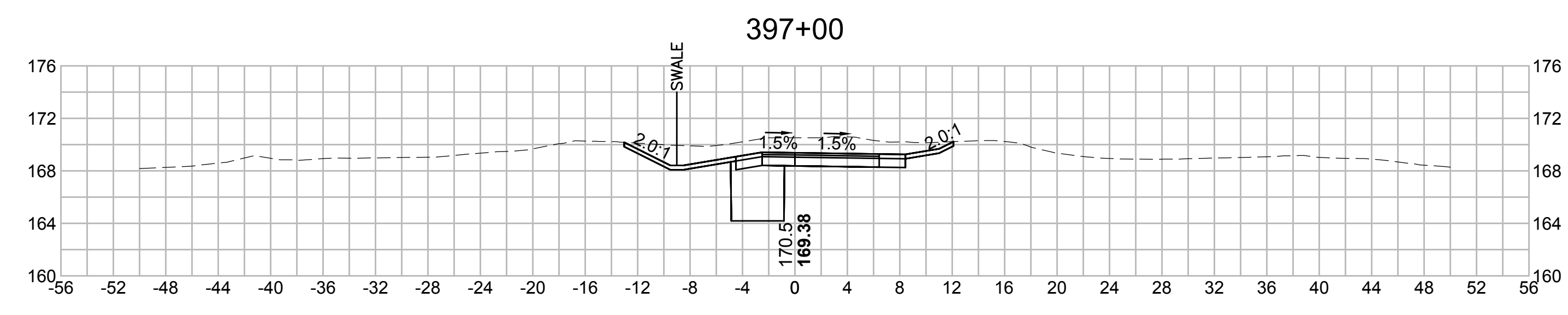
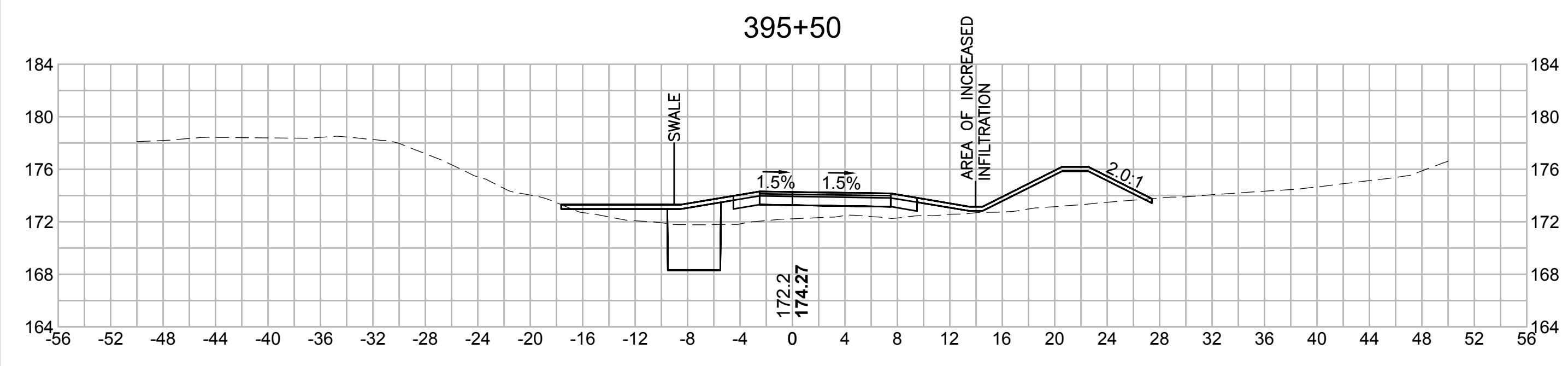
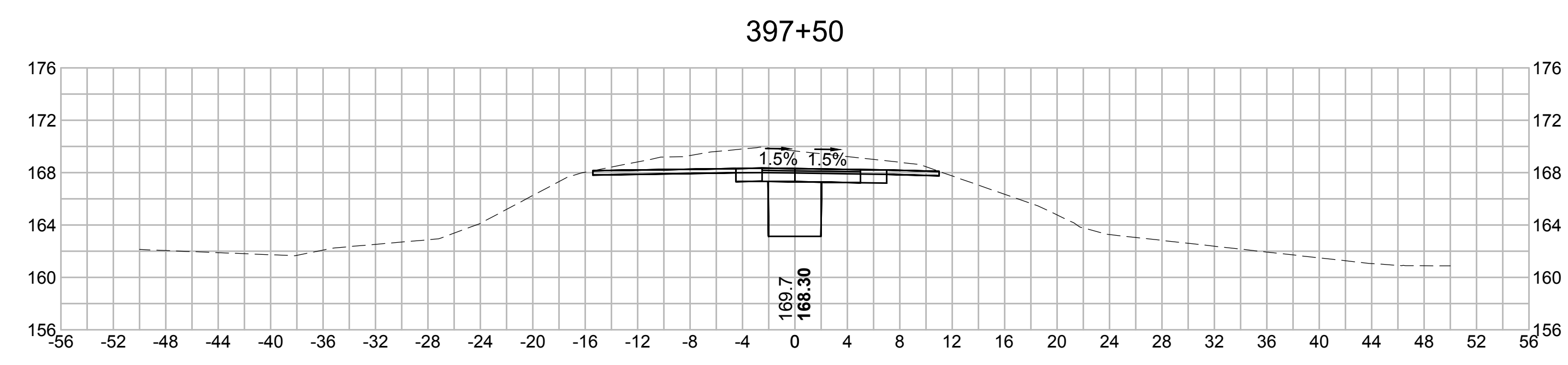
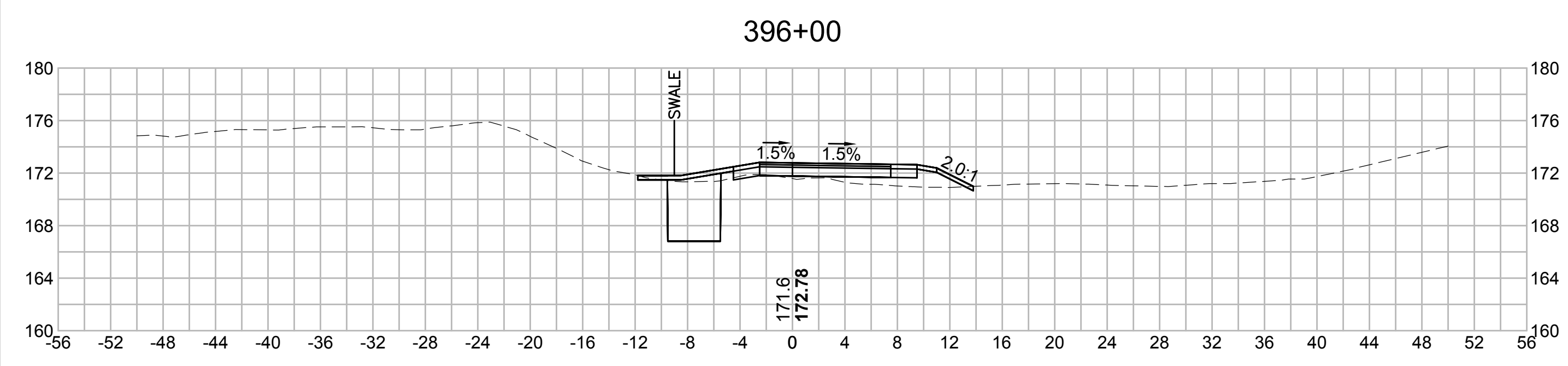
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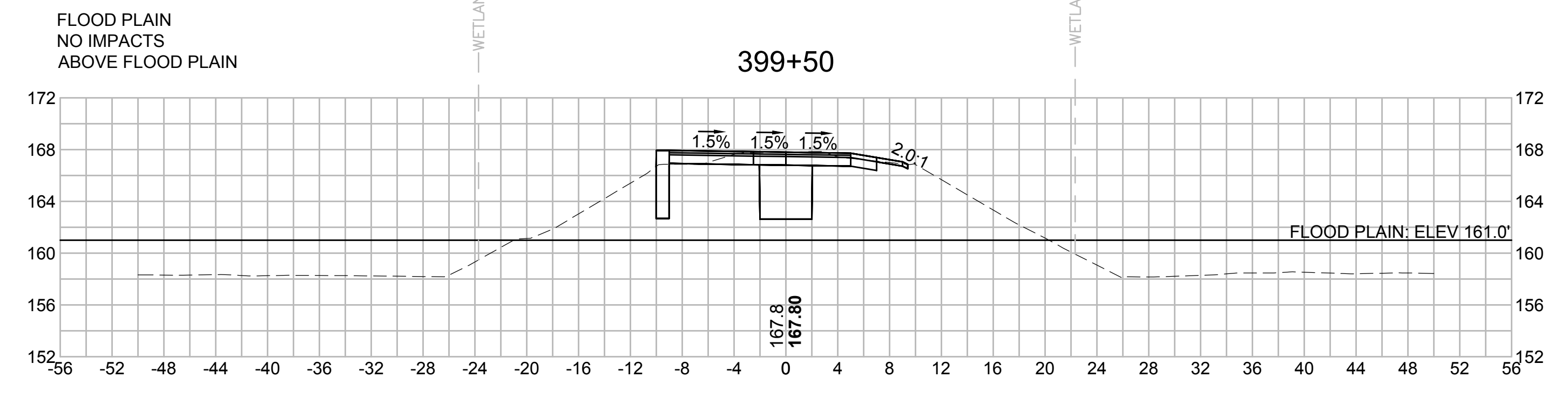
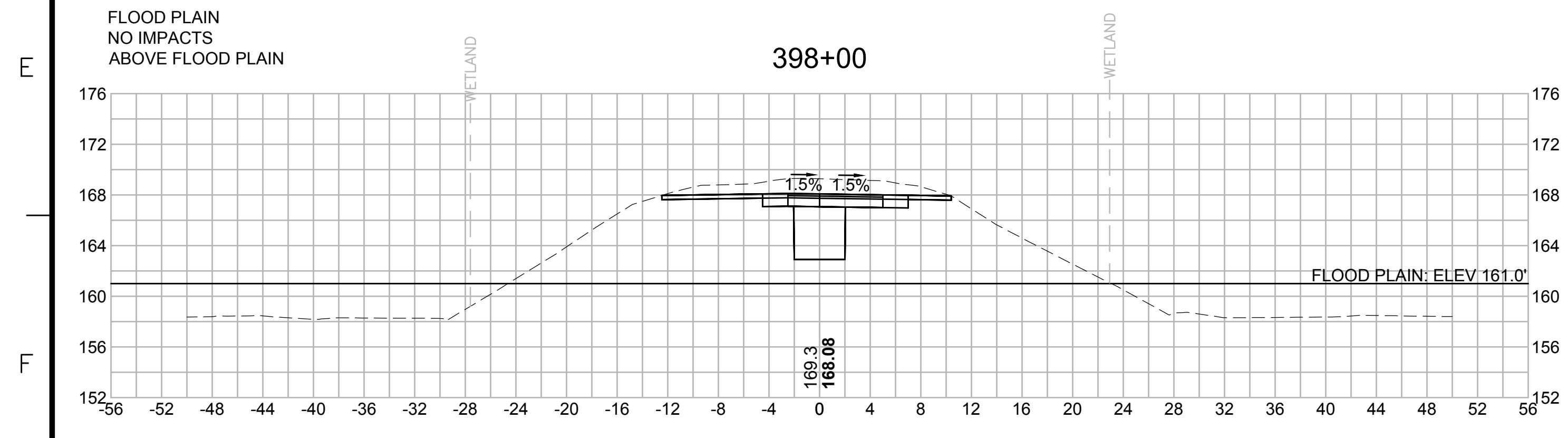
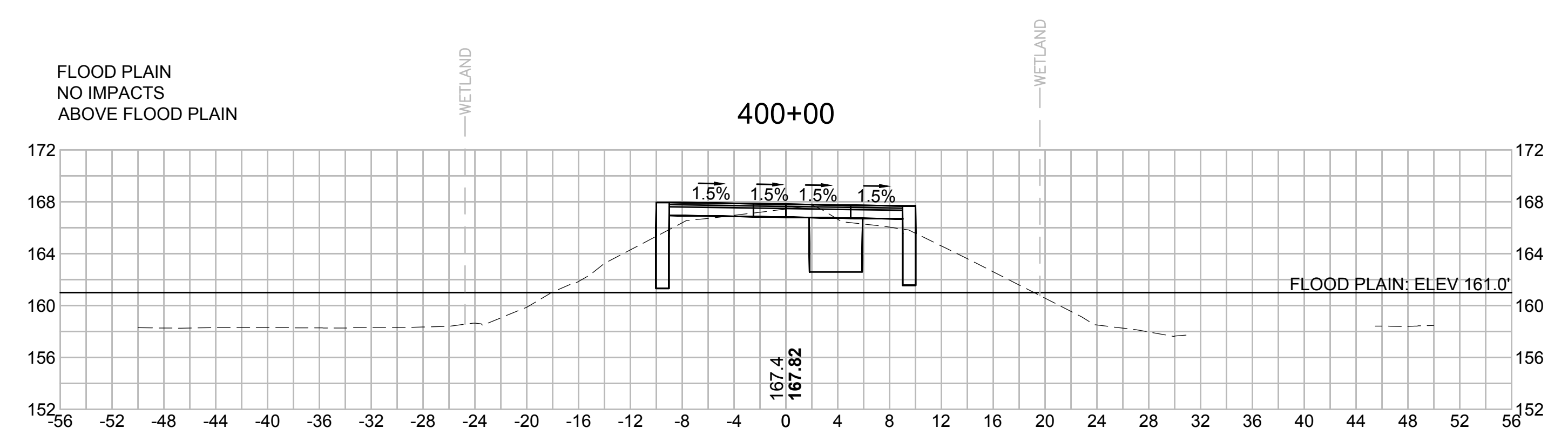
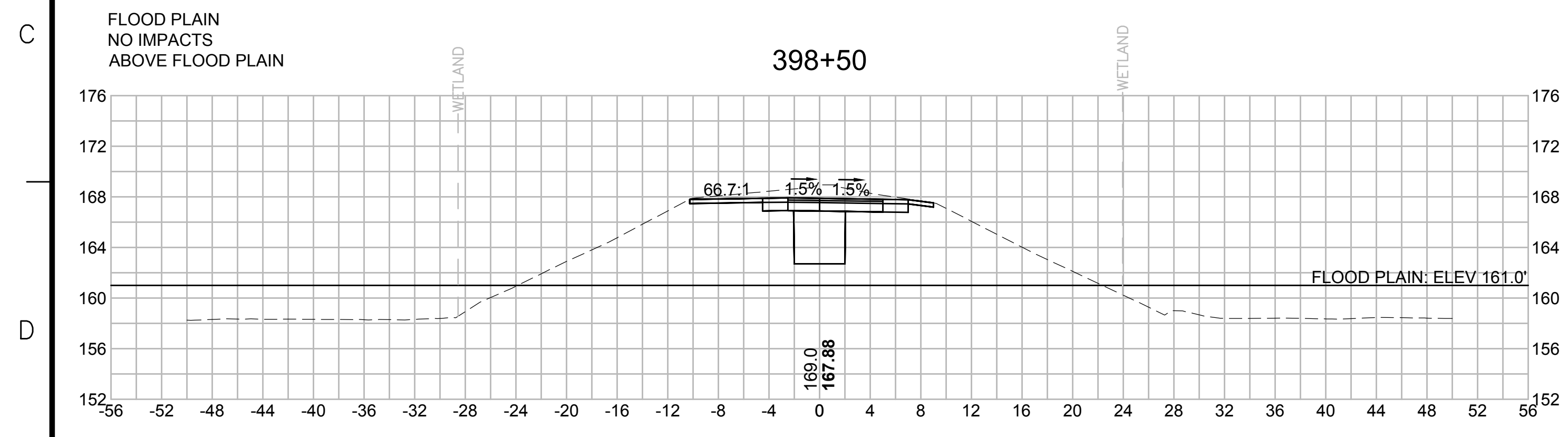
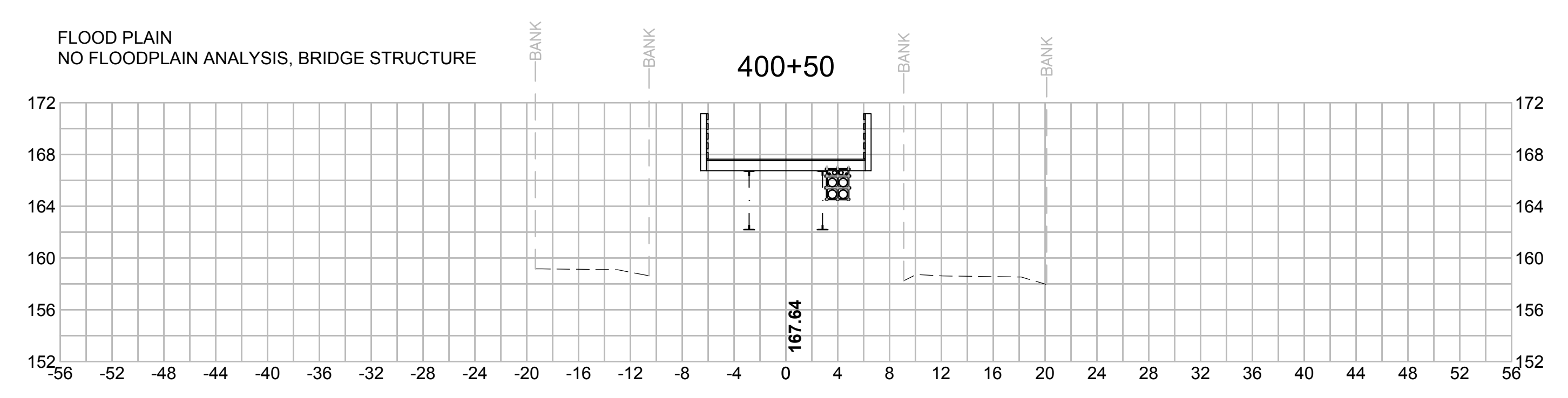
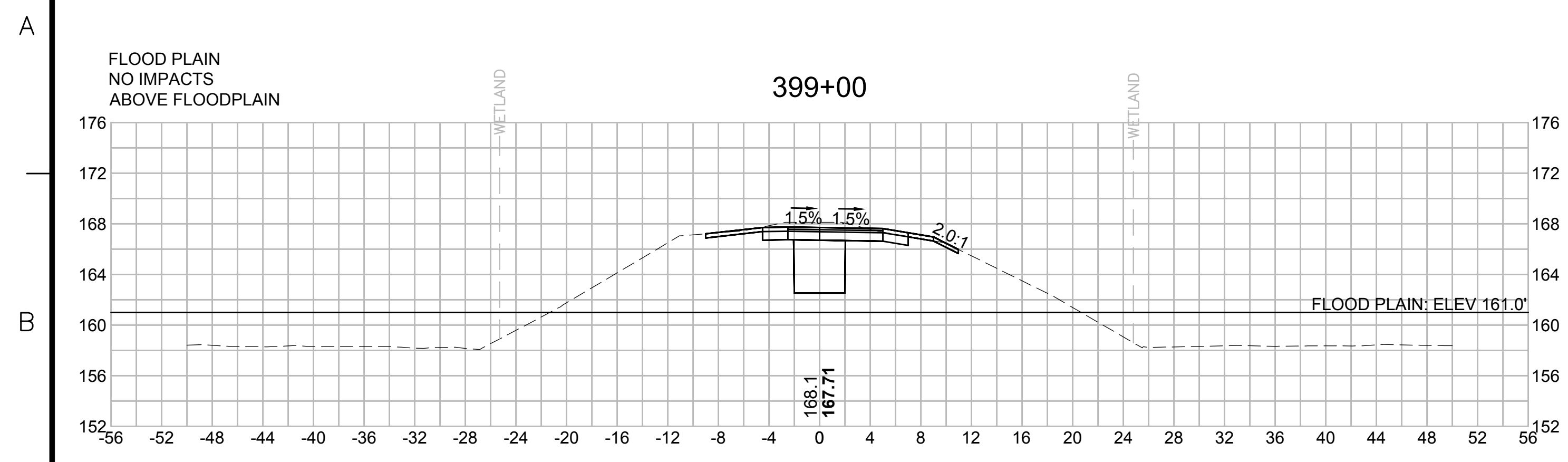
BLSF CROSSING STA 398 TO STA 403 - FEMA ZONE AE - HOP BROOK
 FEMA ELEVATION: 161.0'
 FILL:
 160'-161': 0.95 CY
 159'-160': 0.33 CY
 CUT:
 160'-161': 4.04 CY
 159'-160': 1.17 CY



| NO. | | DESCRIPTION | | BY | DATE | APPR. |
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| | | REVISION | | | | |
| EVERSOURCE | | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | |
| CROSS SECTIONS | | | | | | |
| PLAN 277 OF 348 | | | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. | REV. |

1 2 3 4 5 6 7 8 9 10 11

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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS

PLAN 278 OF 348

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|------------------------------|------------------|-------------|---------------|-----------------|---------------------|
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. REV. |
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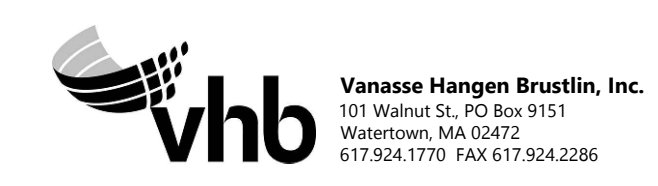
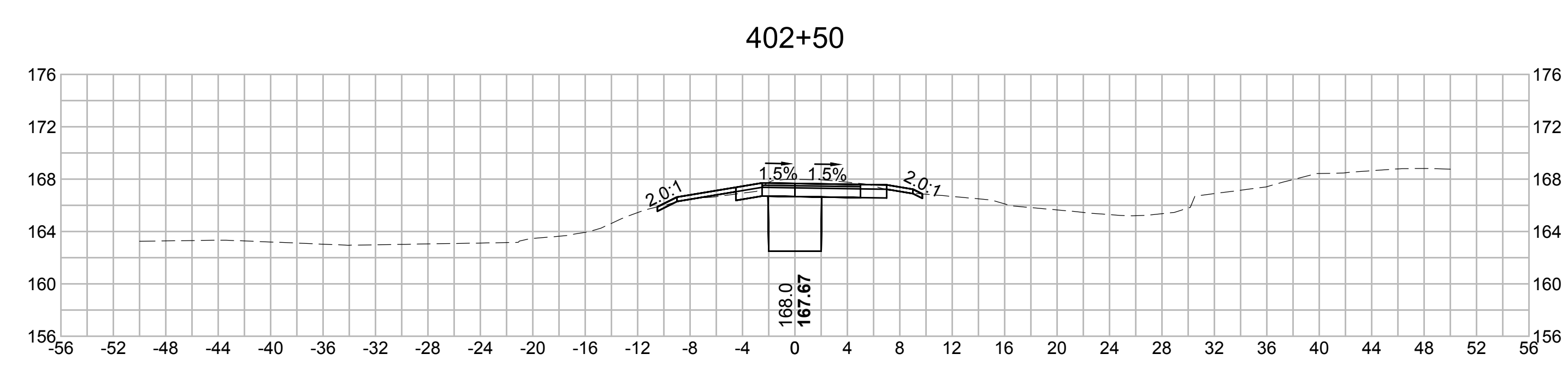
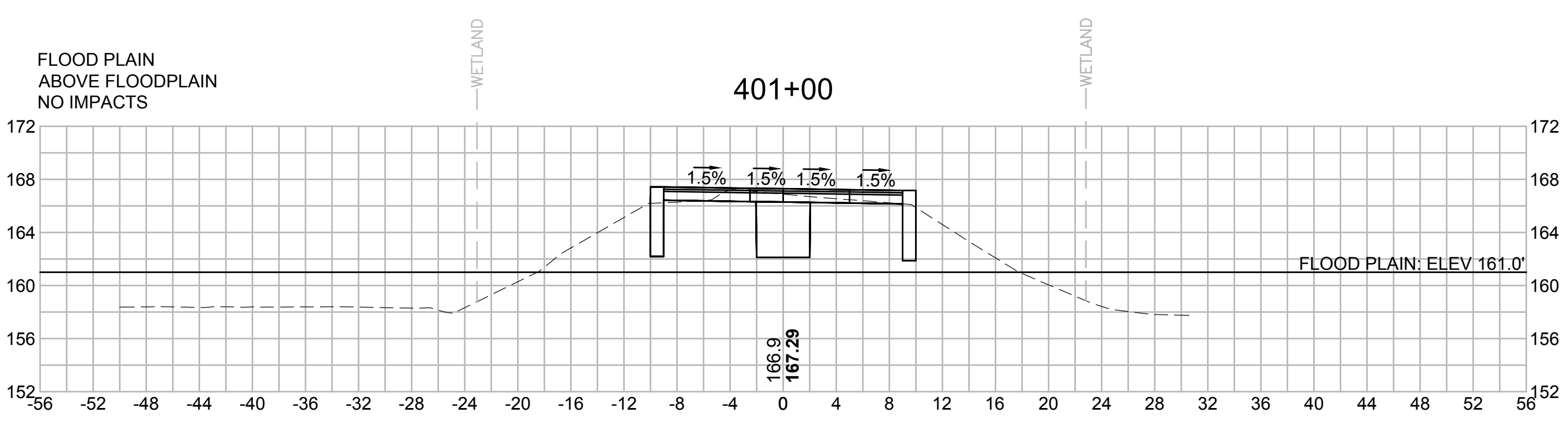
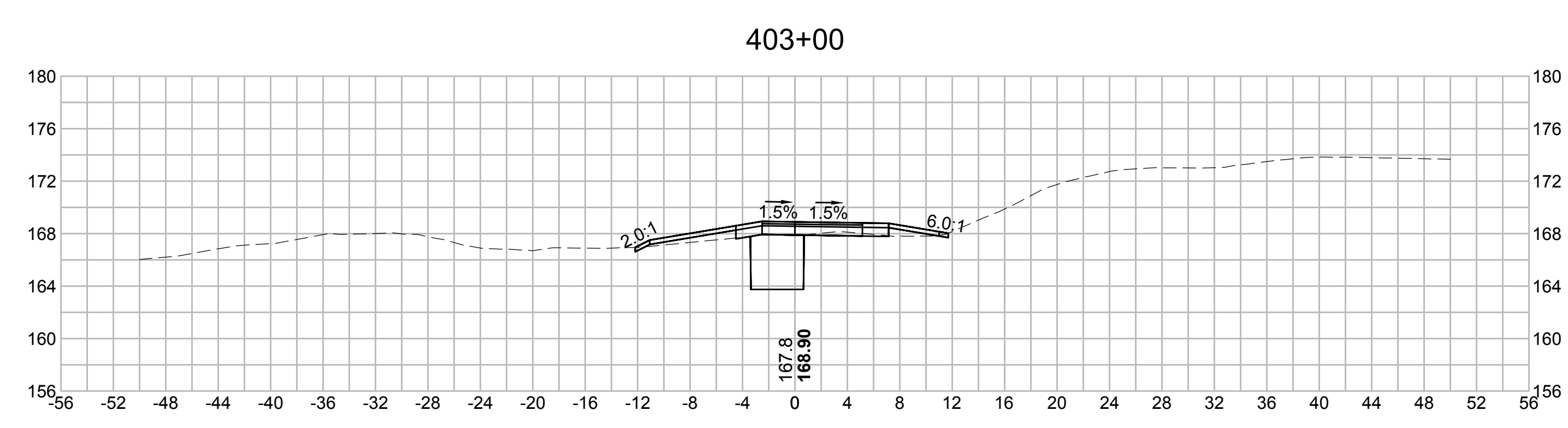
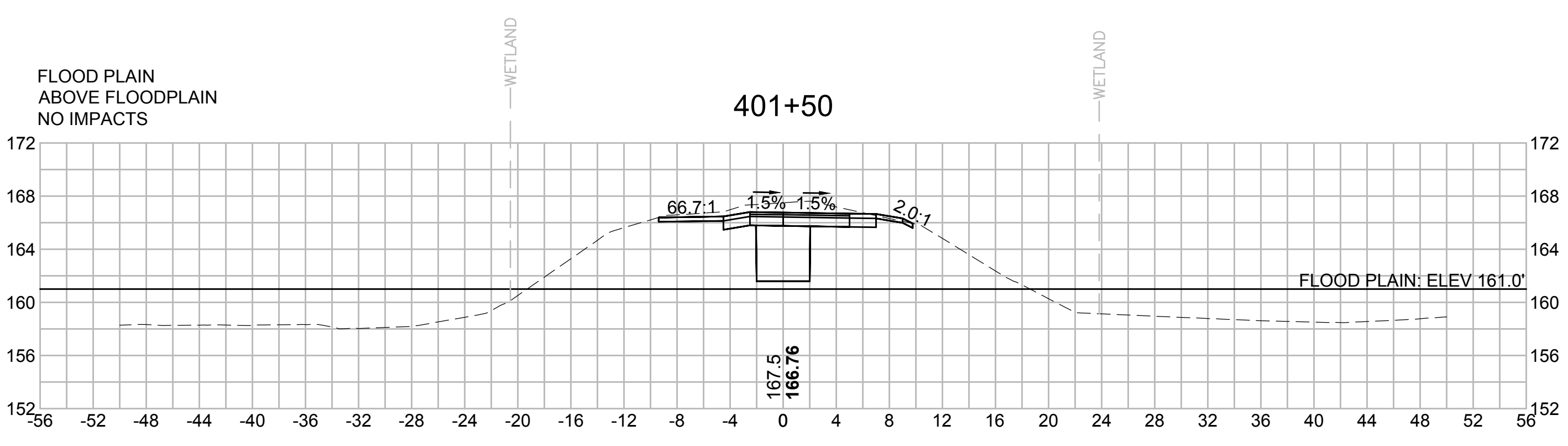
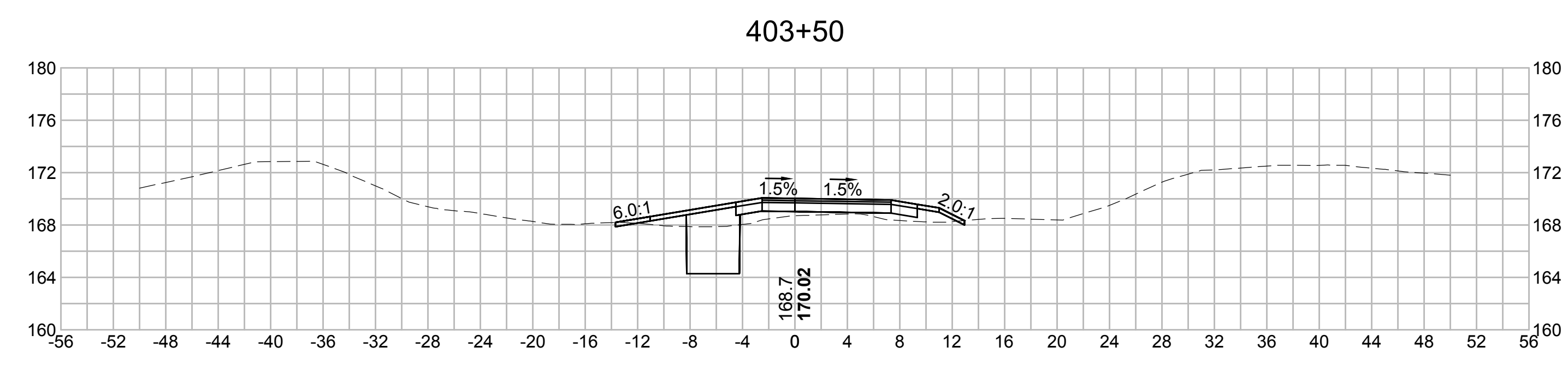
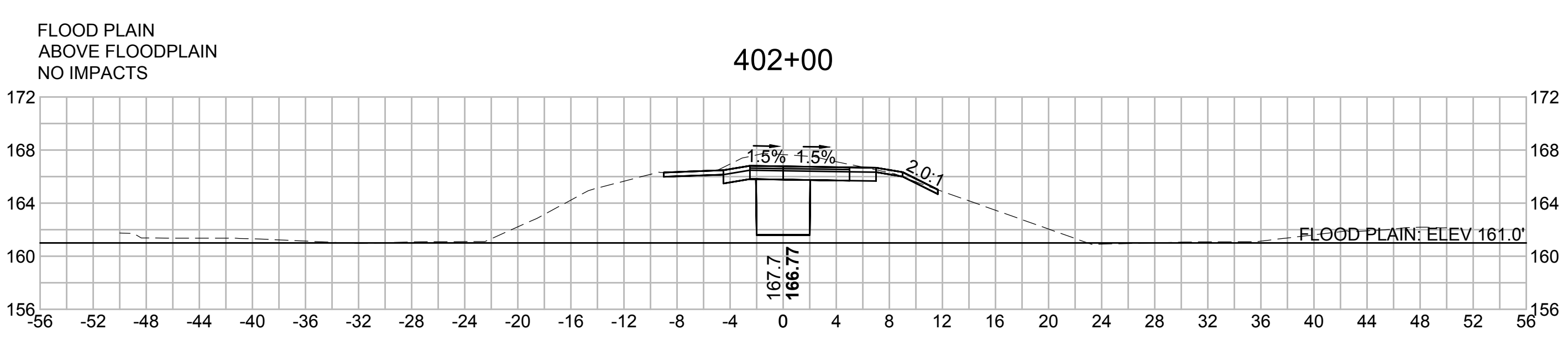
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |

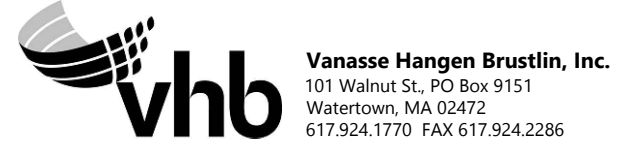
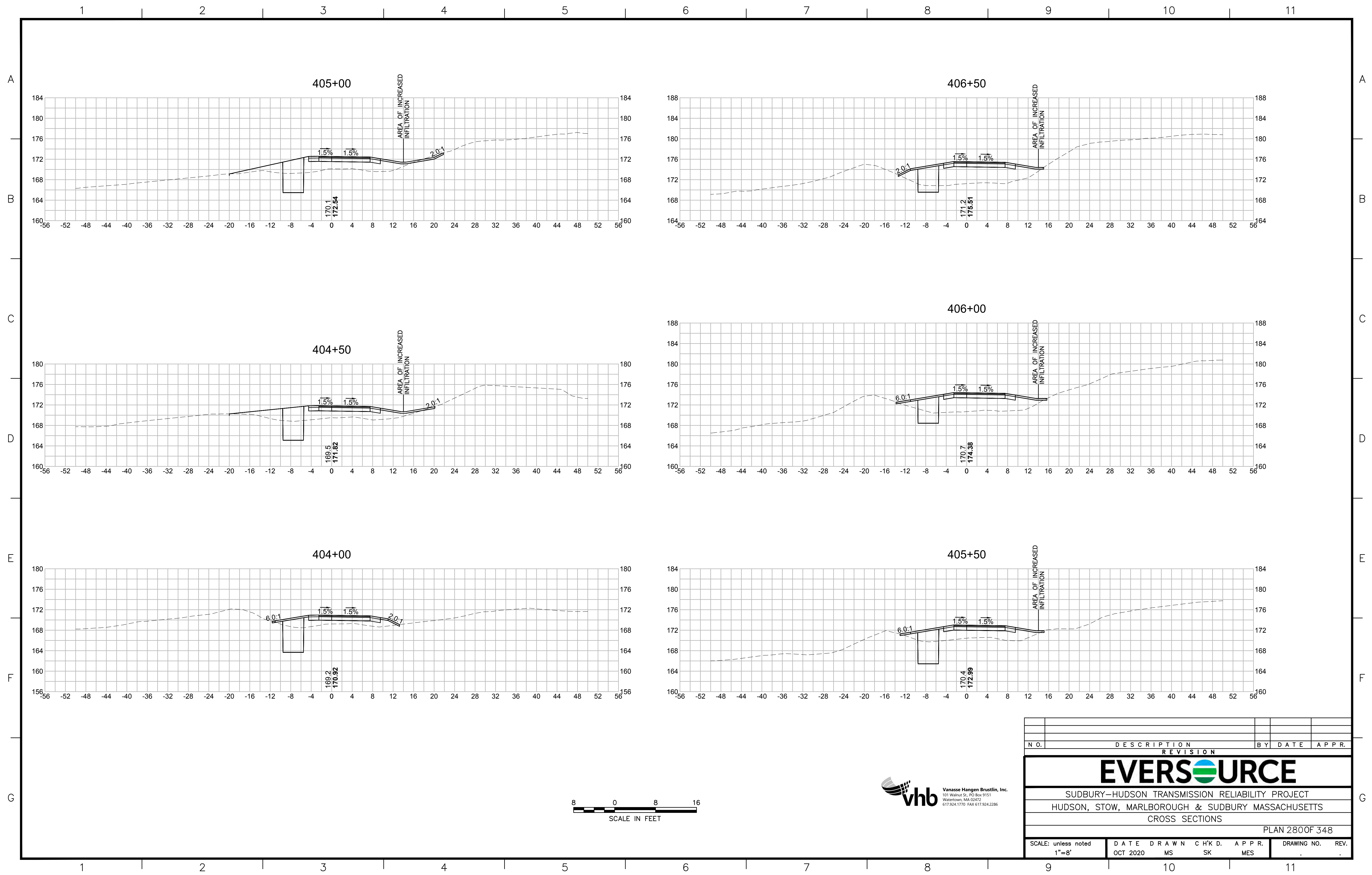
EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CROSS SECTIONS

PLAN 2790F 348

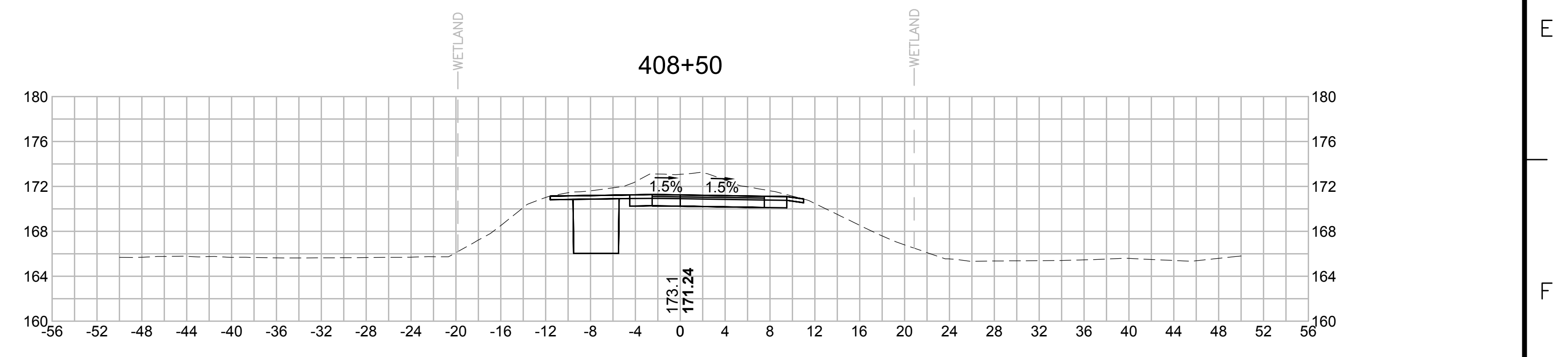
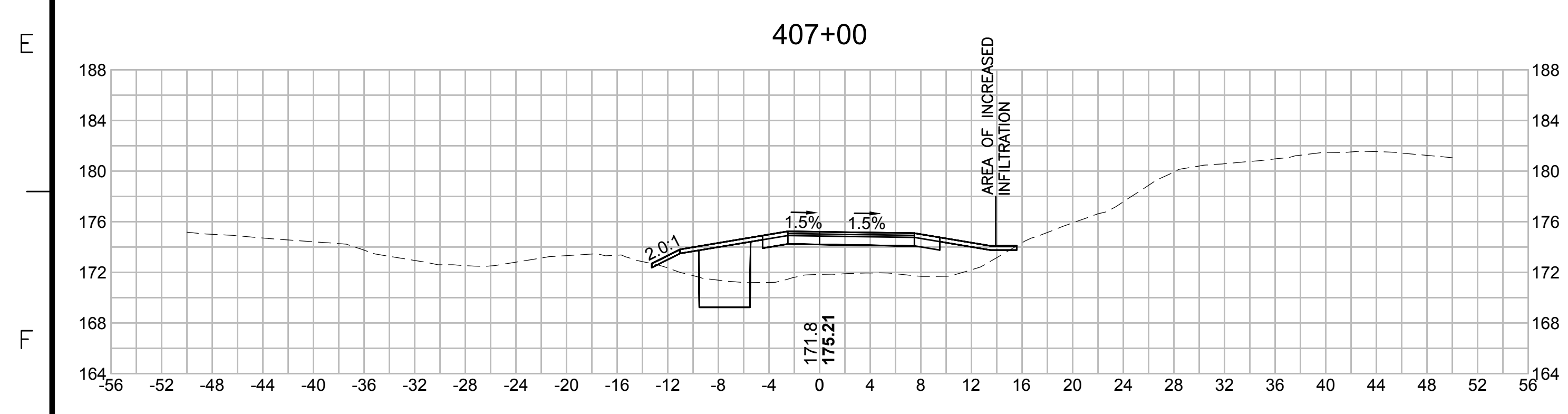
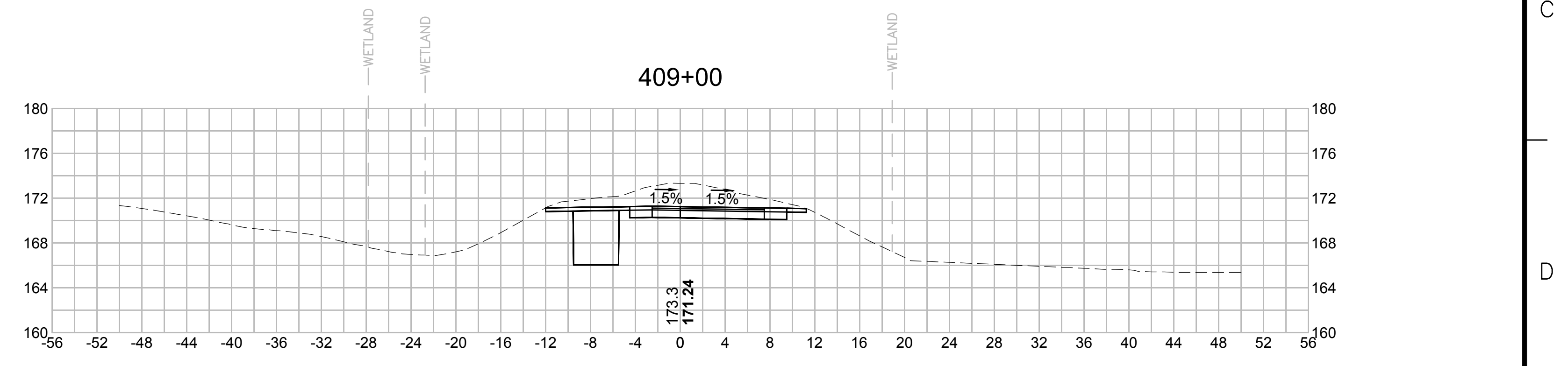
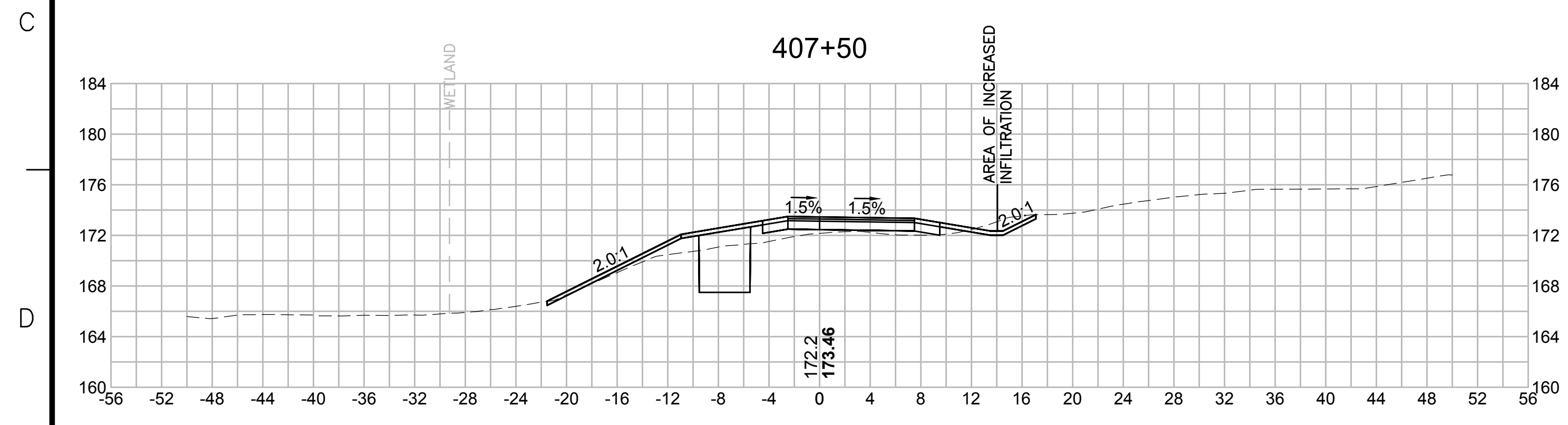
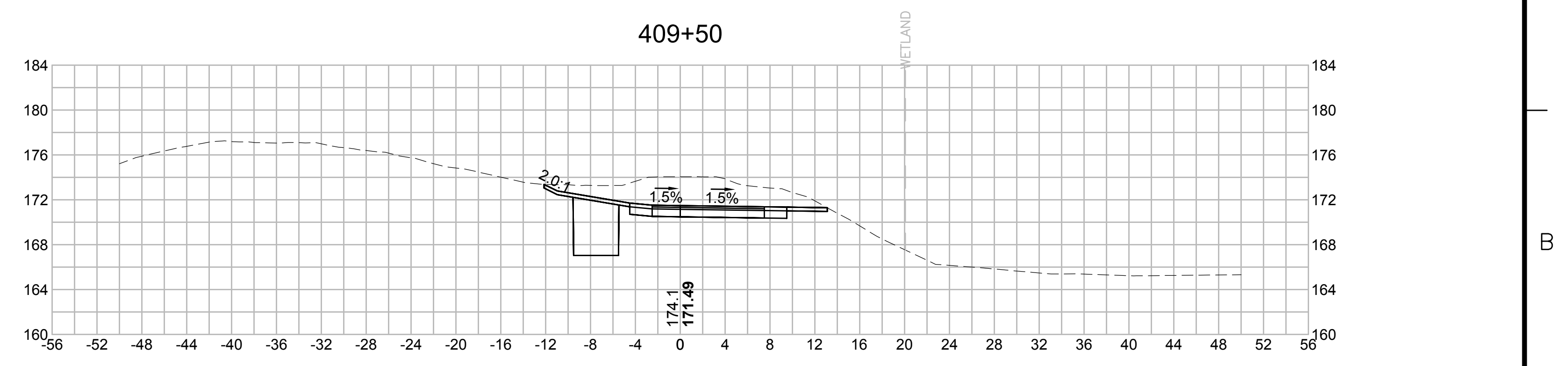
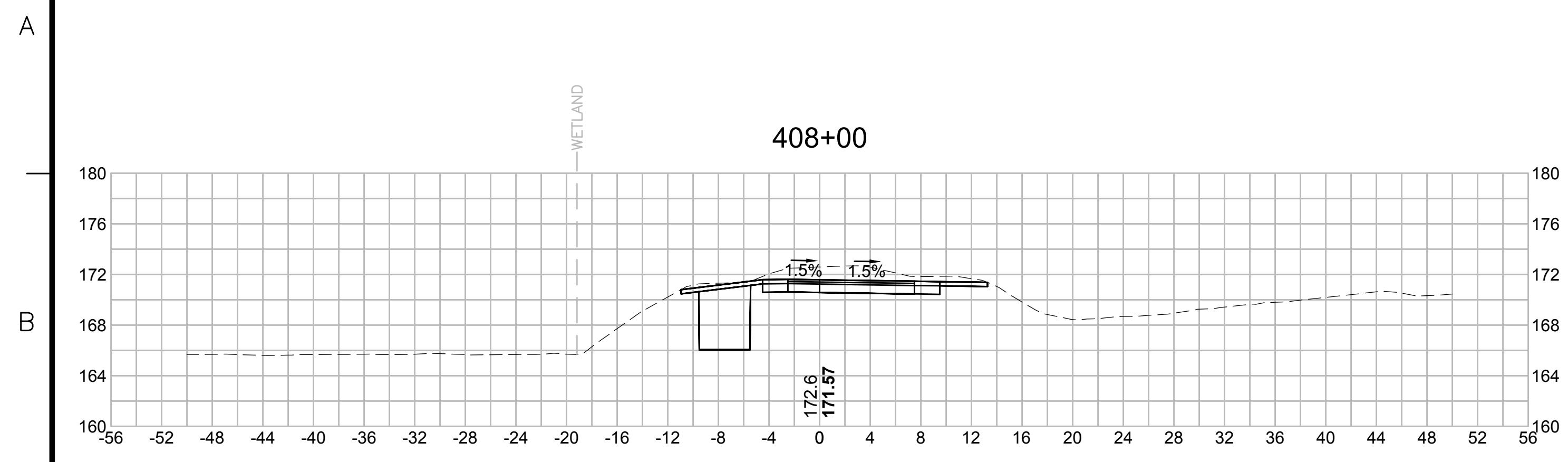
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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. | REV. |
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 2800F 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 281 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

1 2 3 4 5 6 7 8 9 10 11

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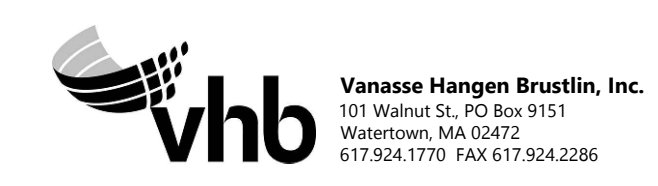
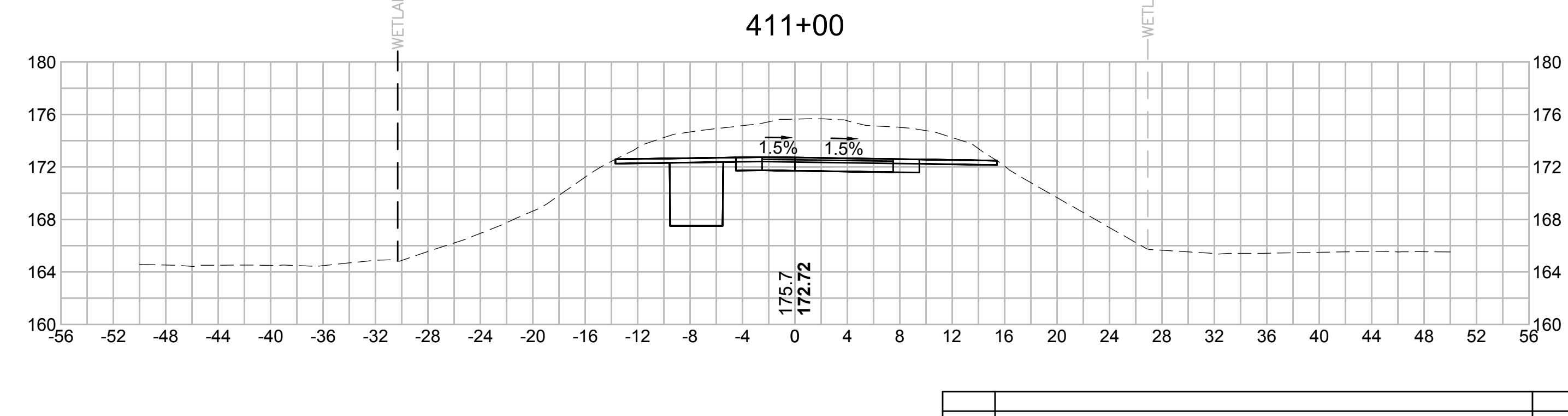
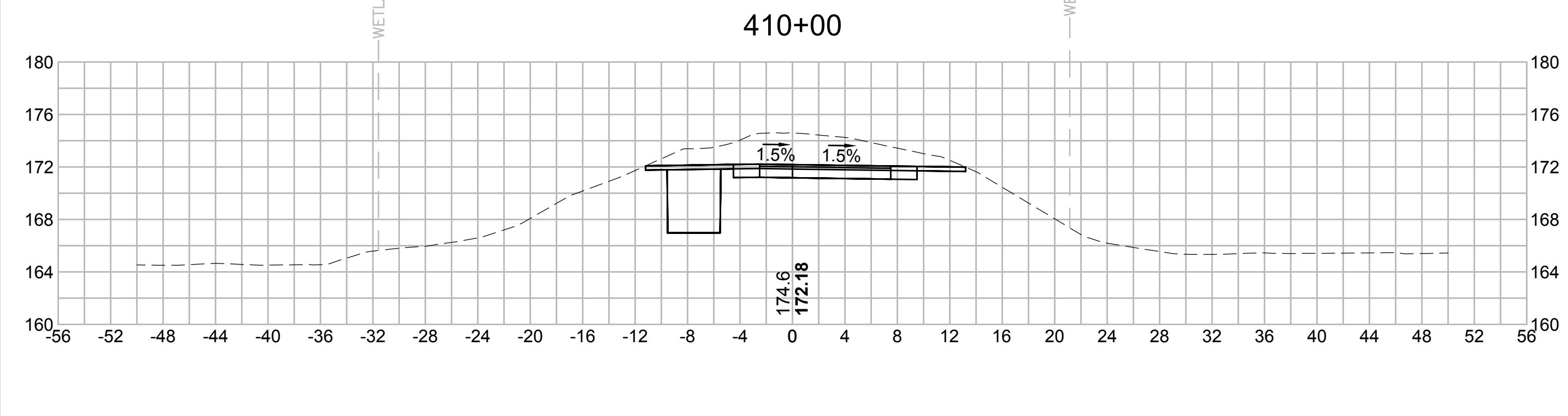
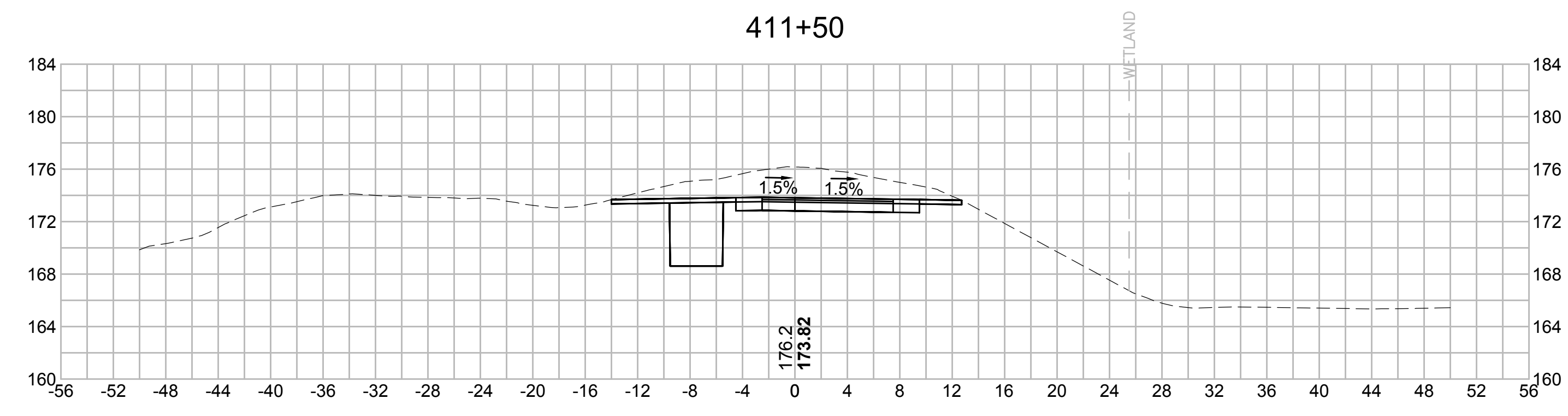
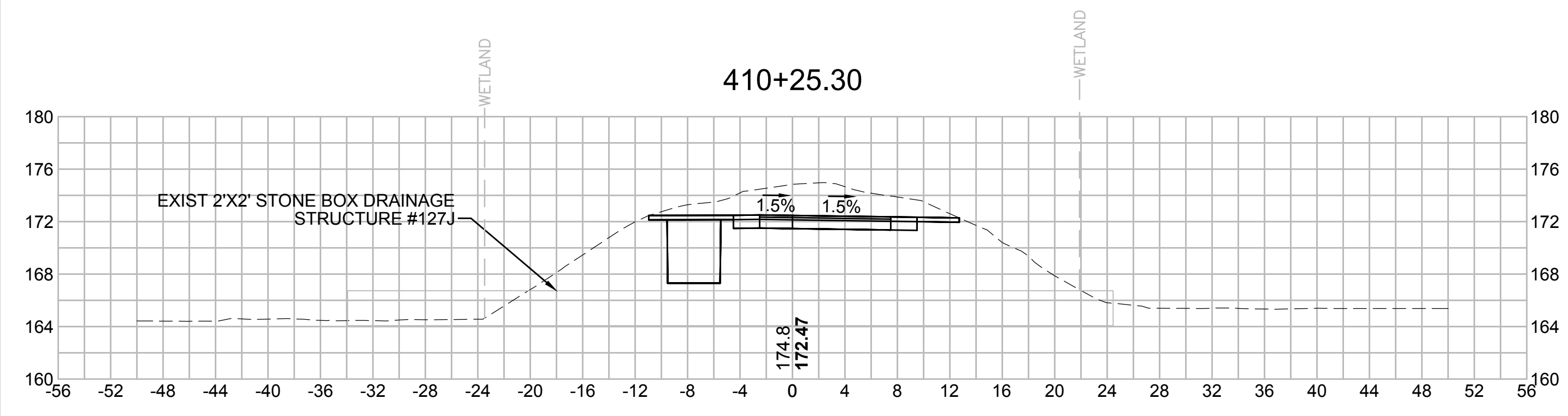
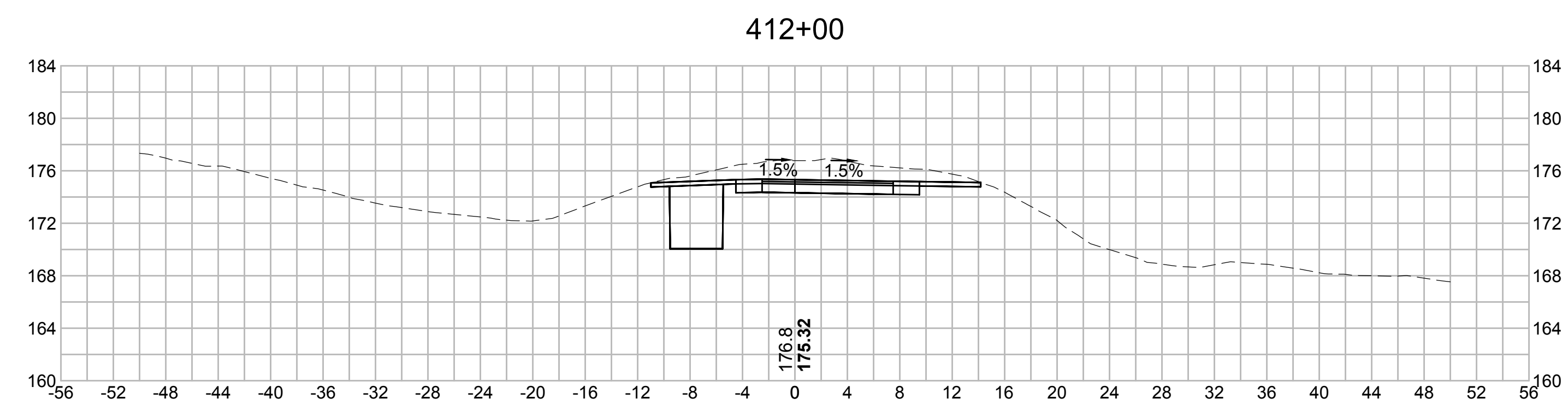
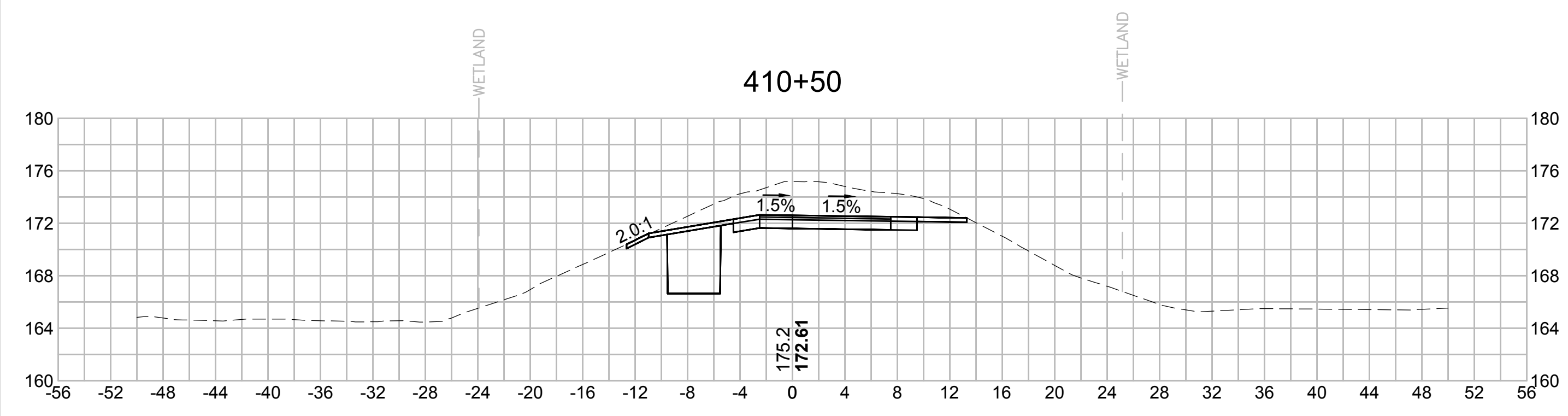
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 282 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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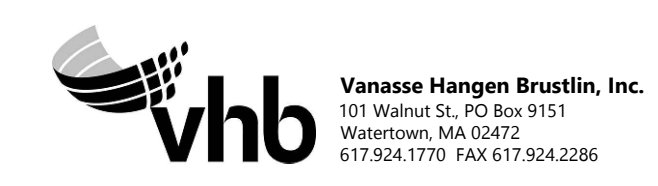
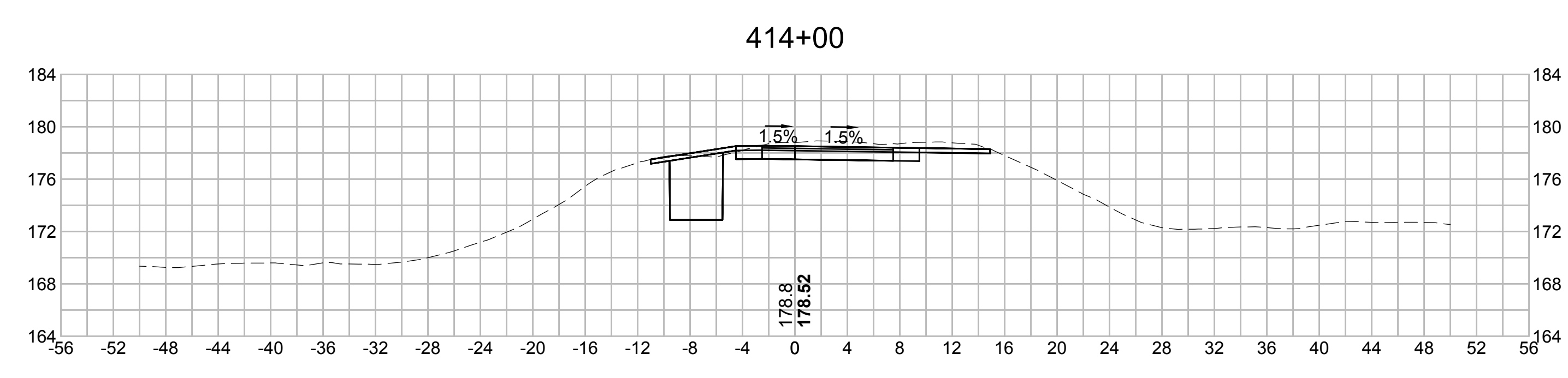
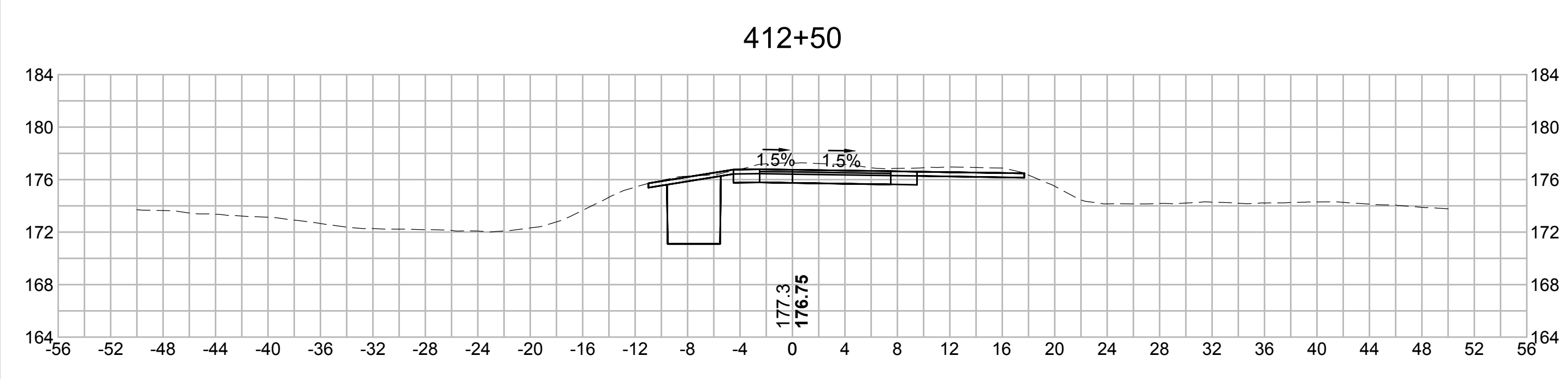
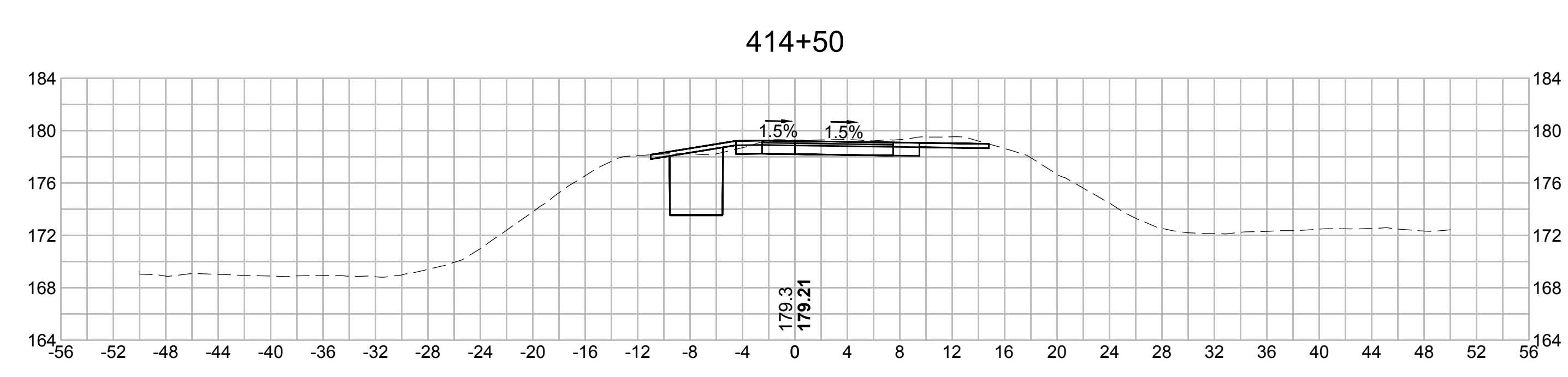
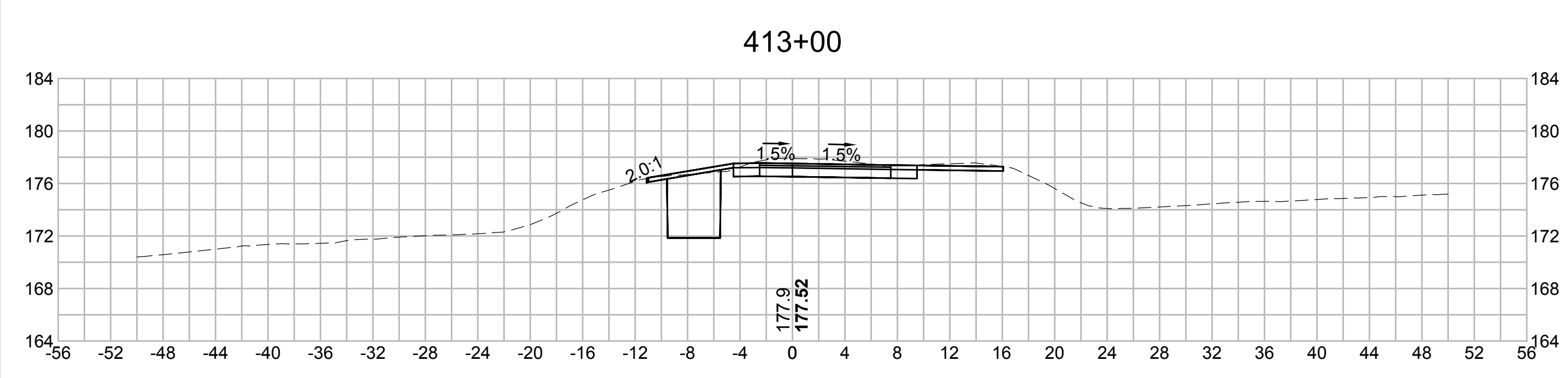
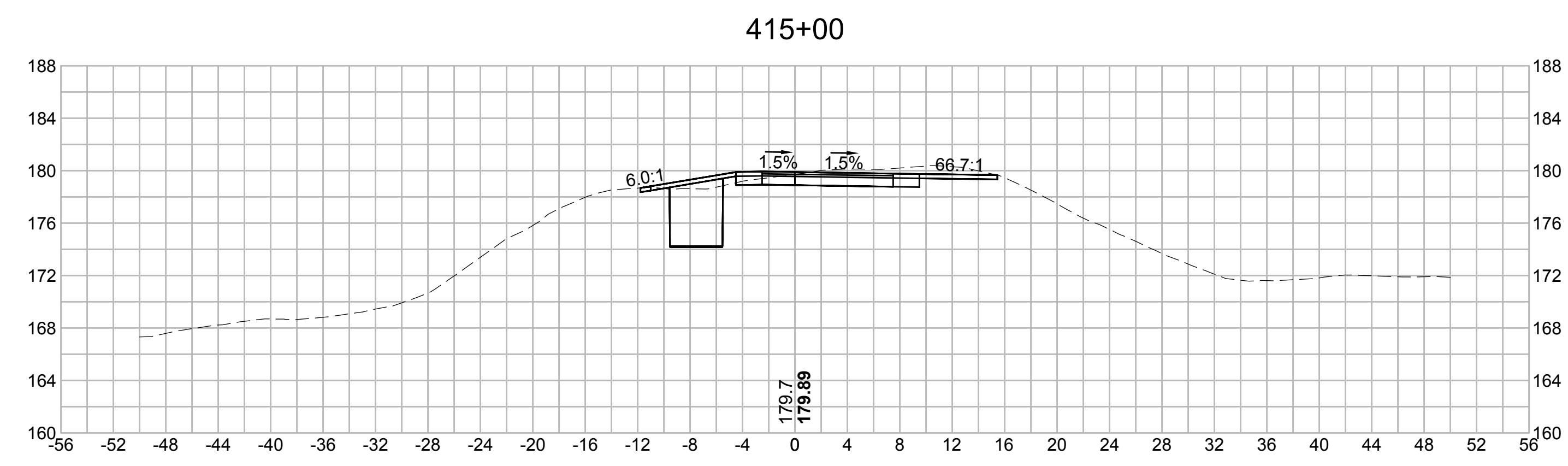
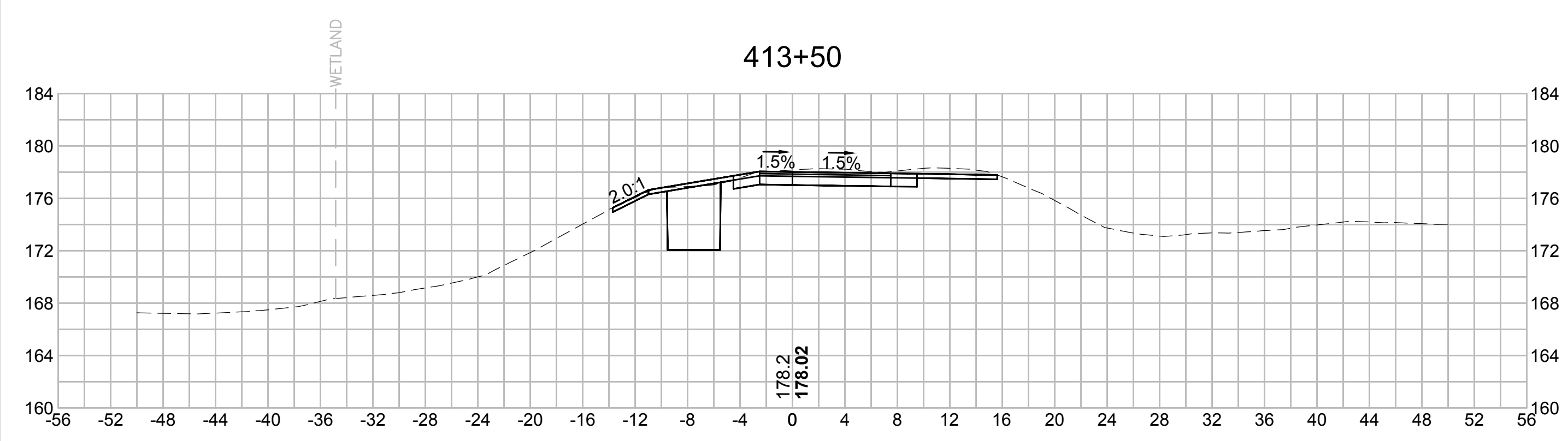
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 28.3 OF 34.8 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
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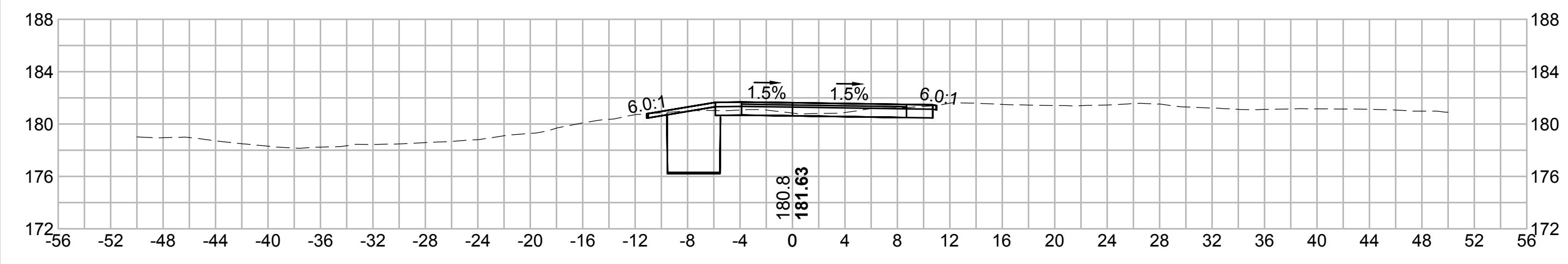
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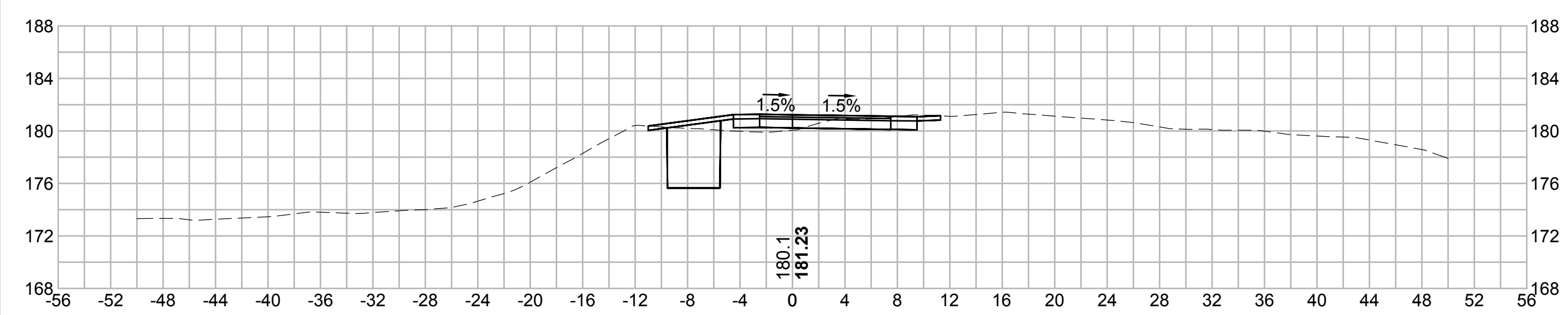
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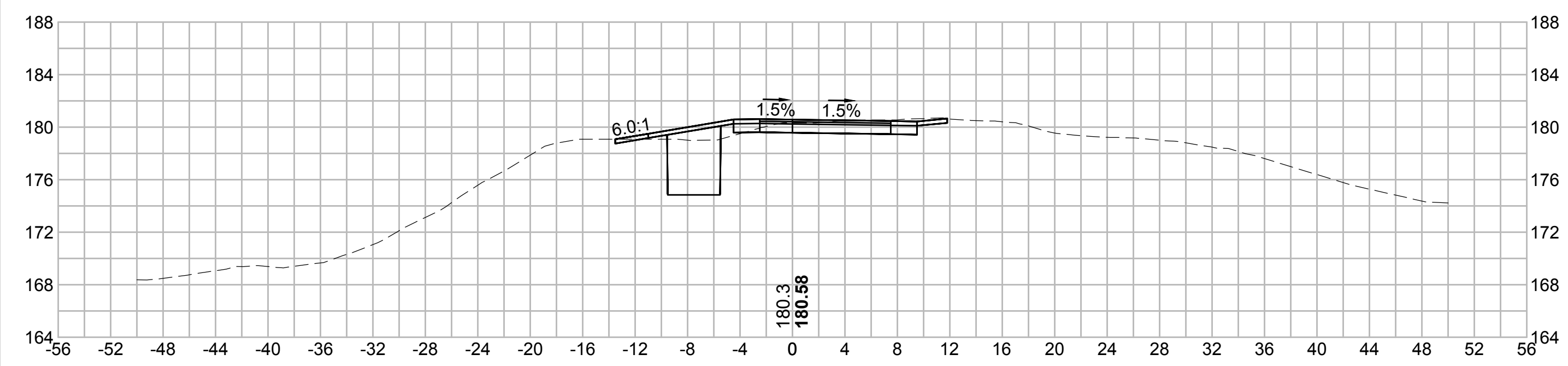
416+50



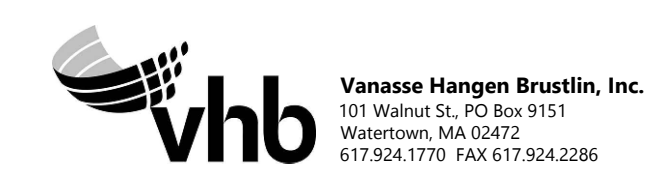
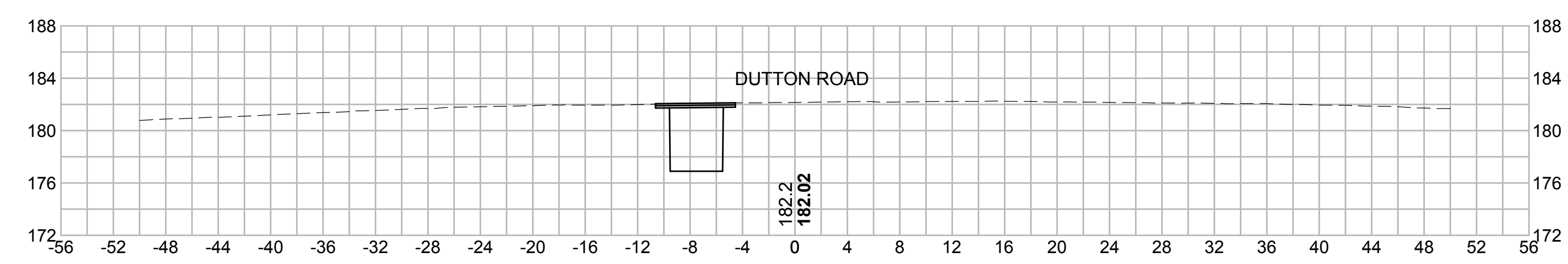
416+00



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417+00



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|
| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 284 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| | DRAWING NO. | REV. | | |

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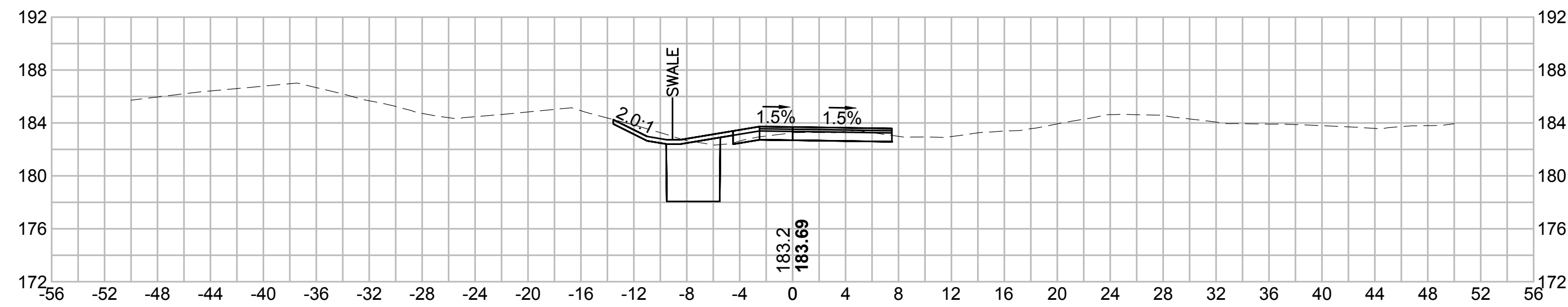
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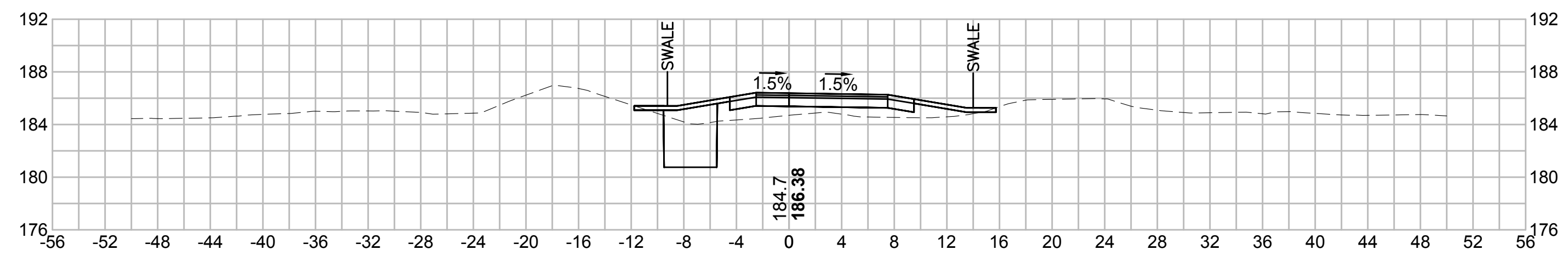
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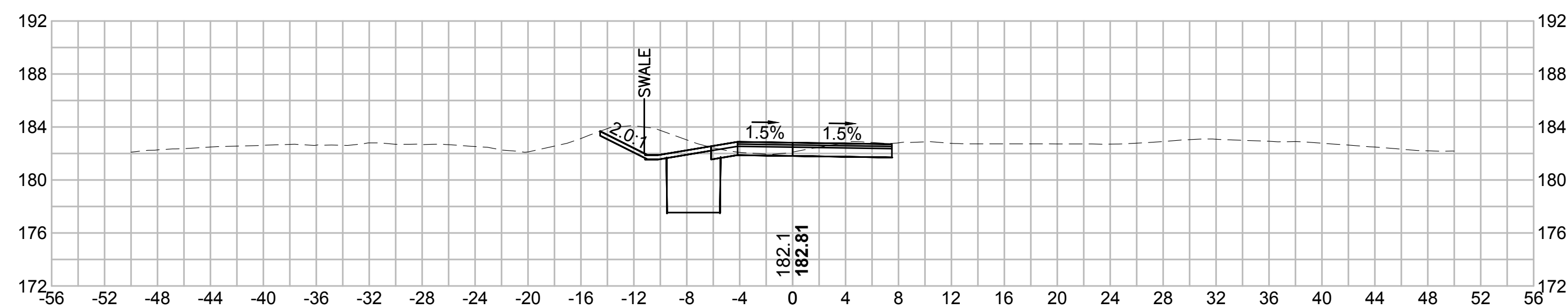
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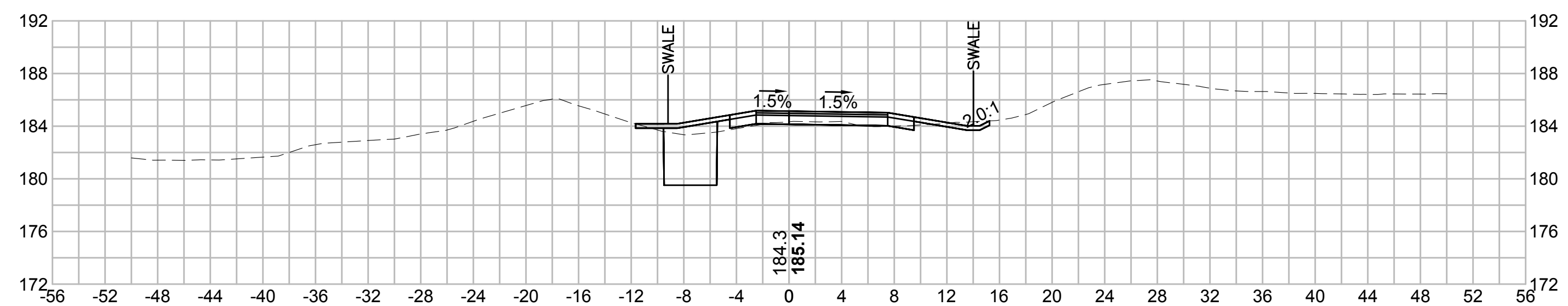
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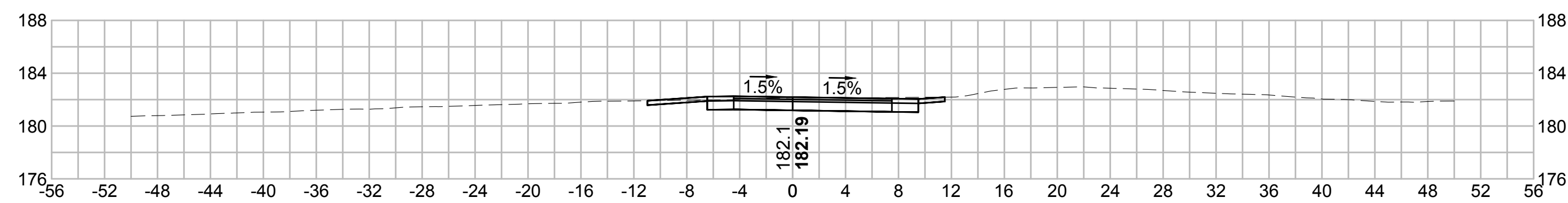
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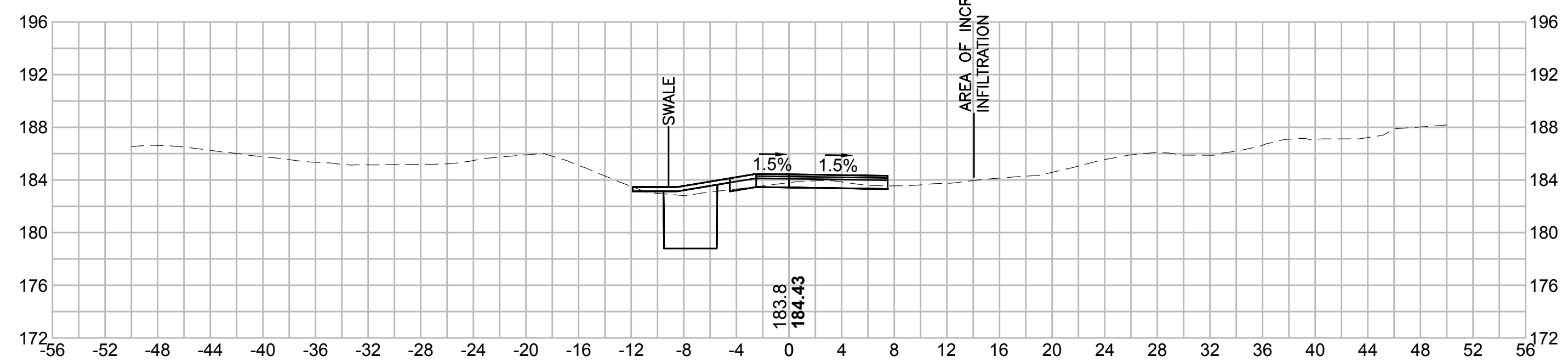
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 285 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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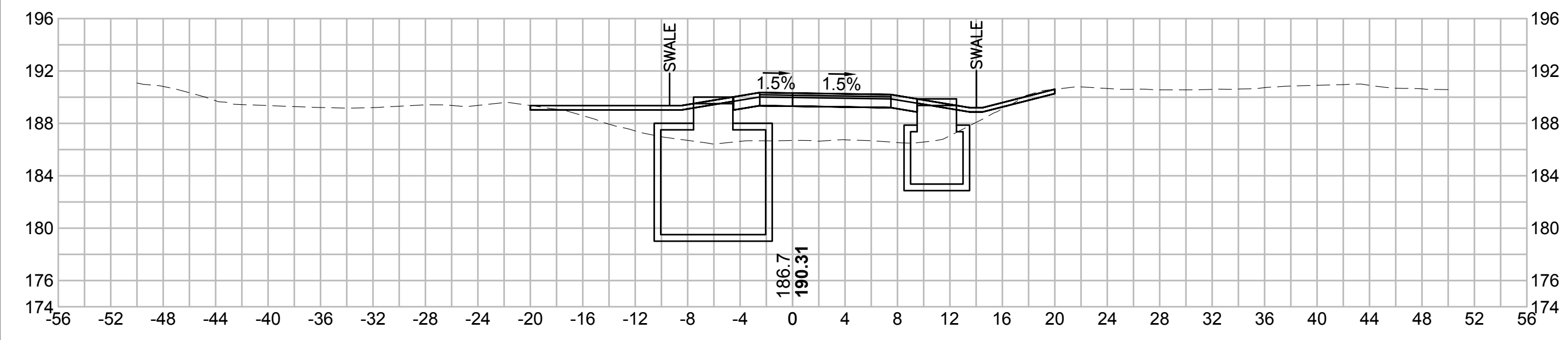
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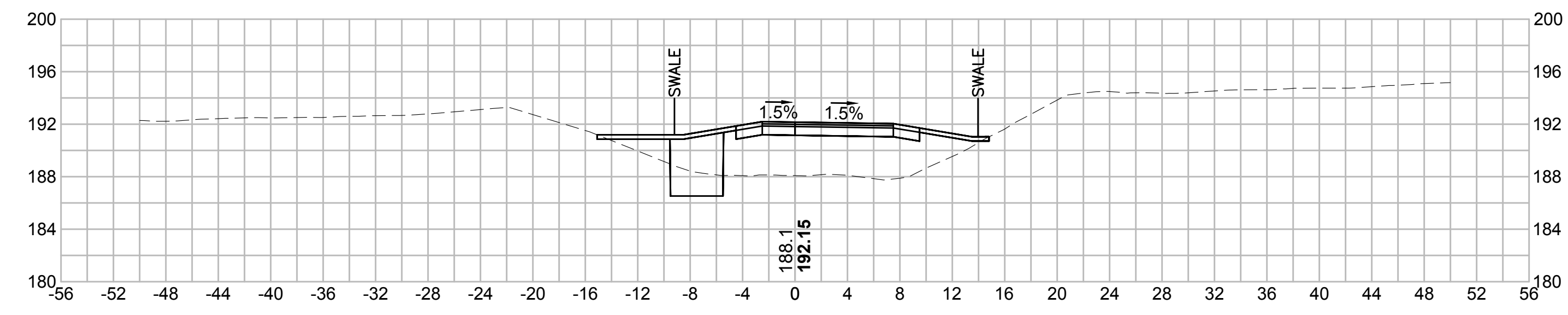
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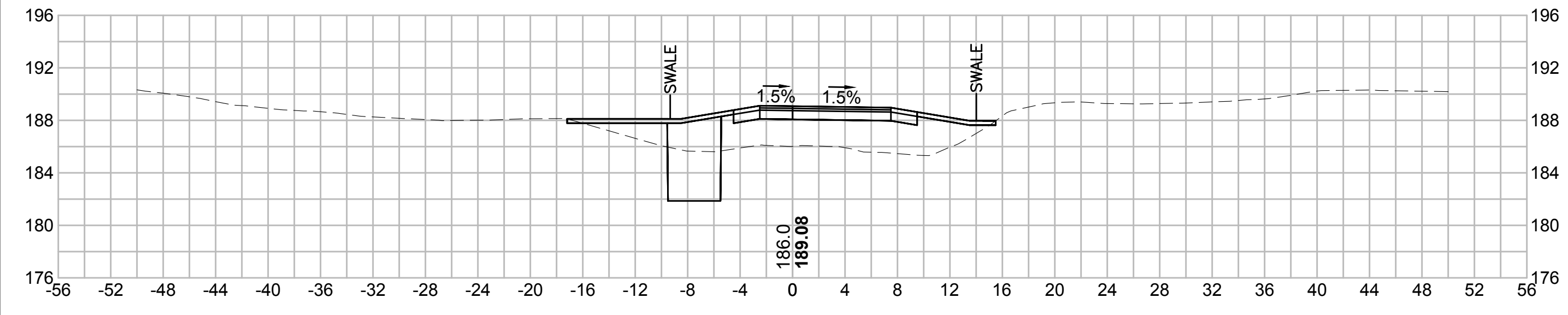
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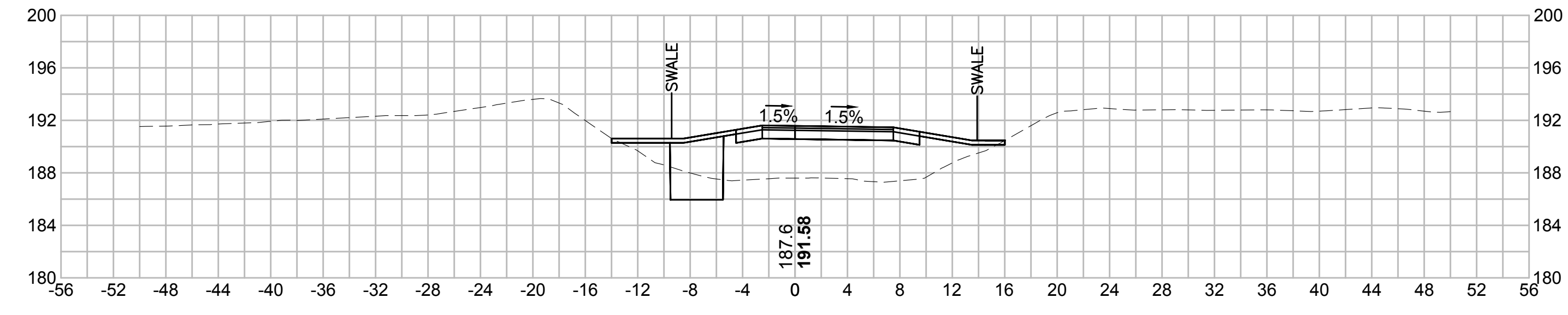
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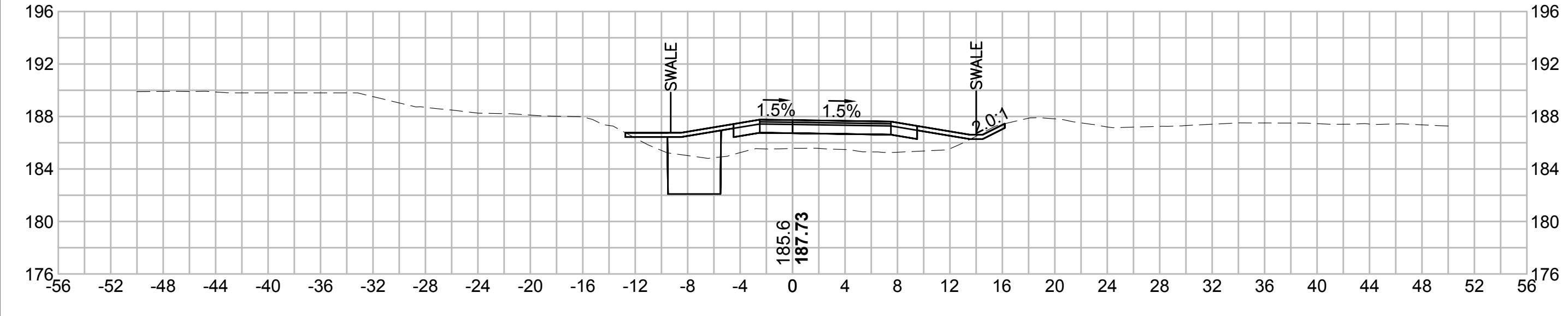
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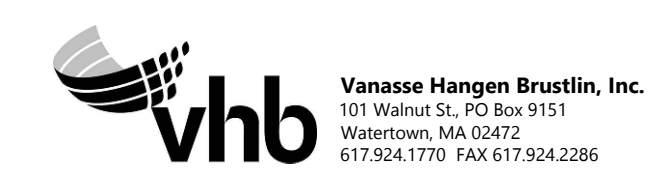
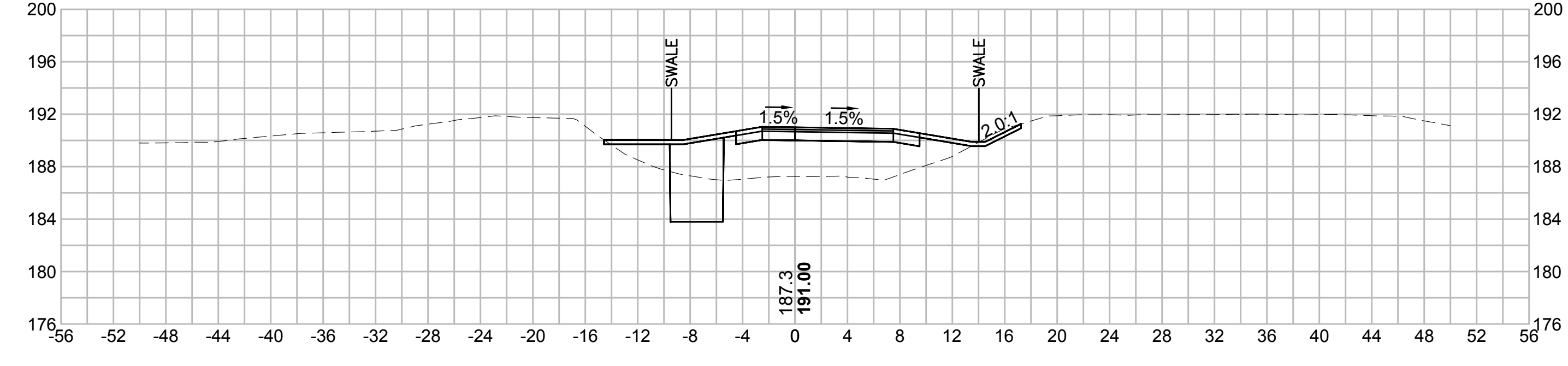
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 286 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
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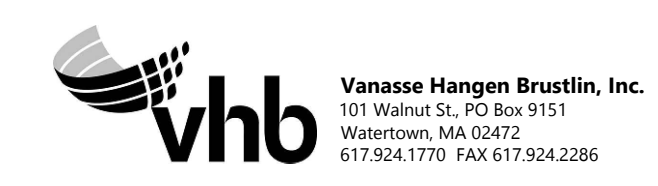
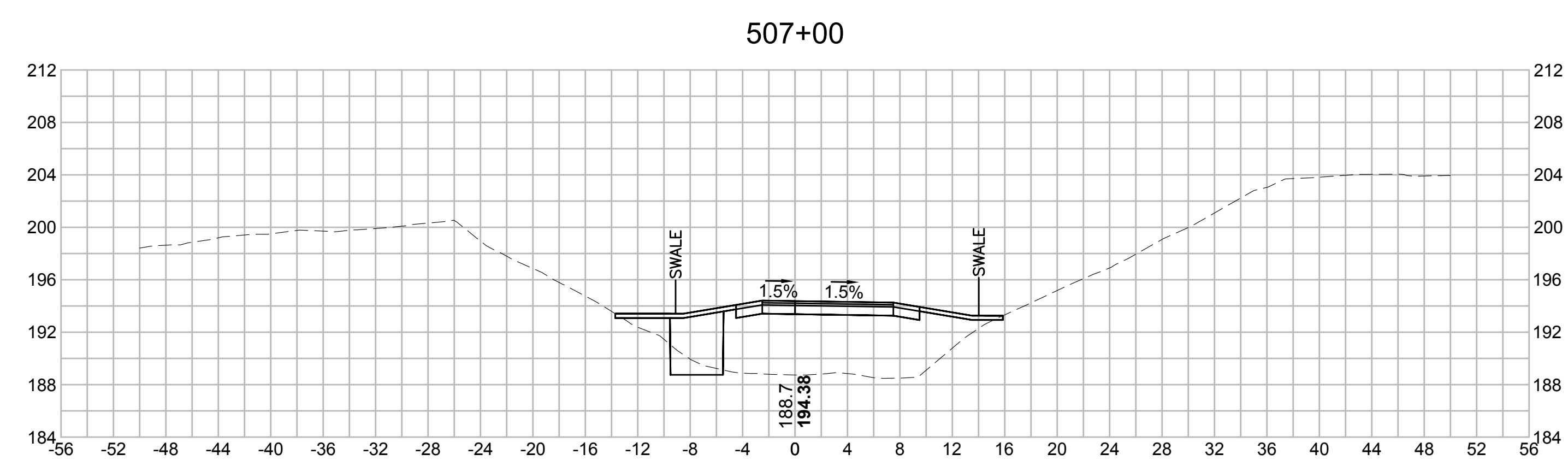
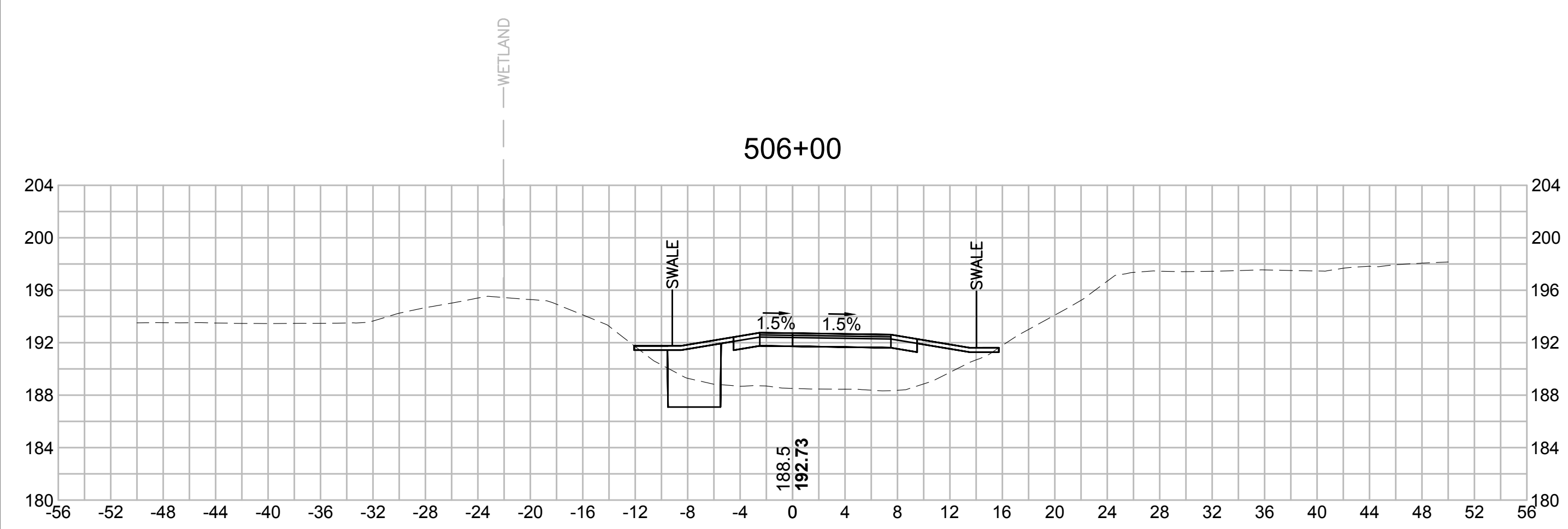
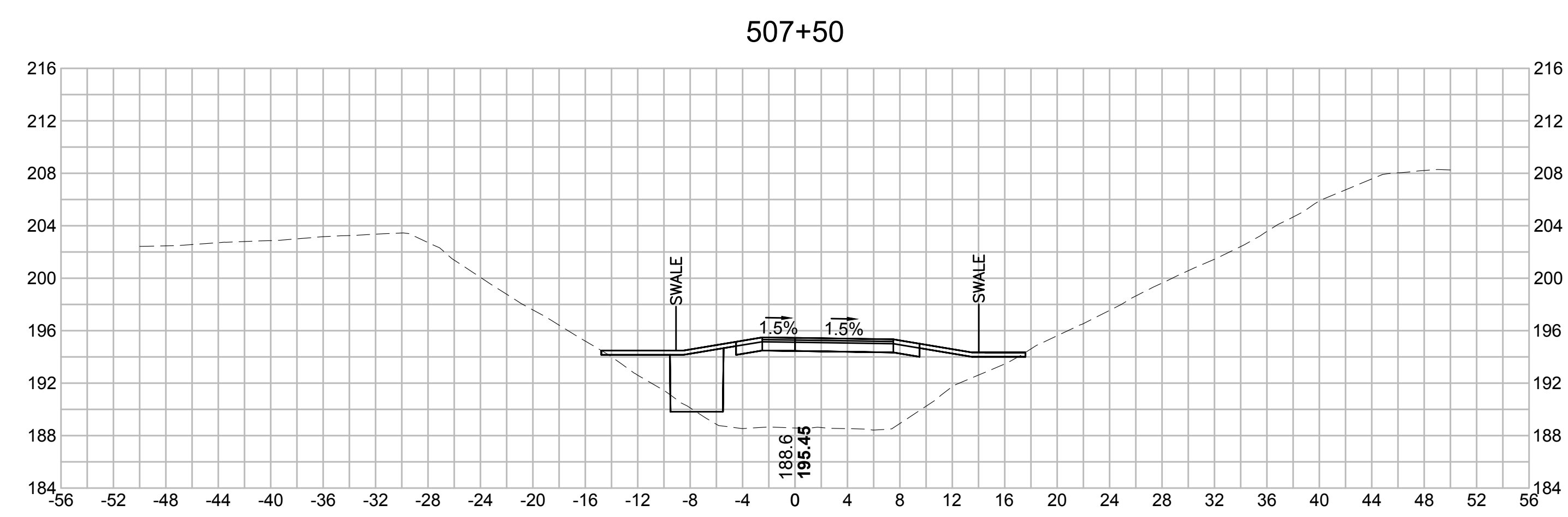
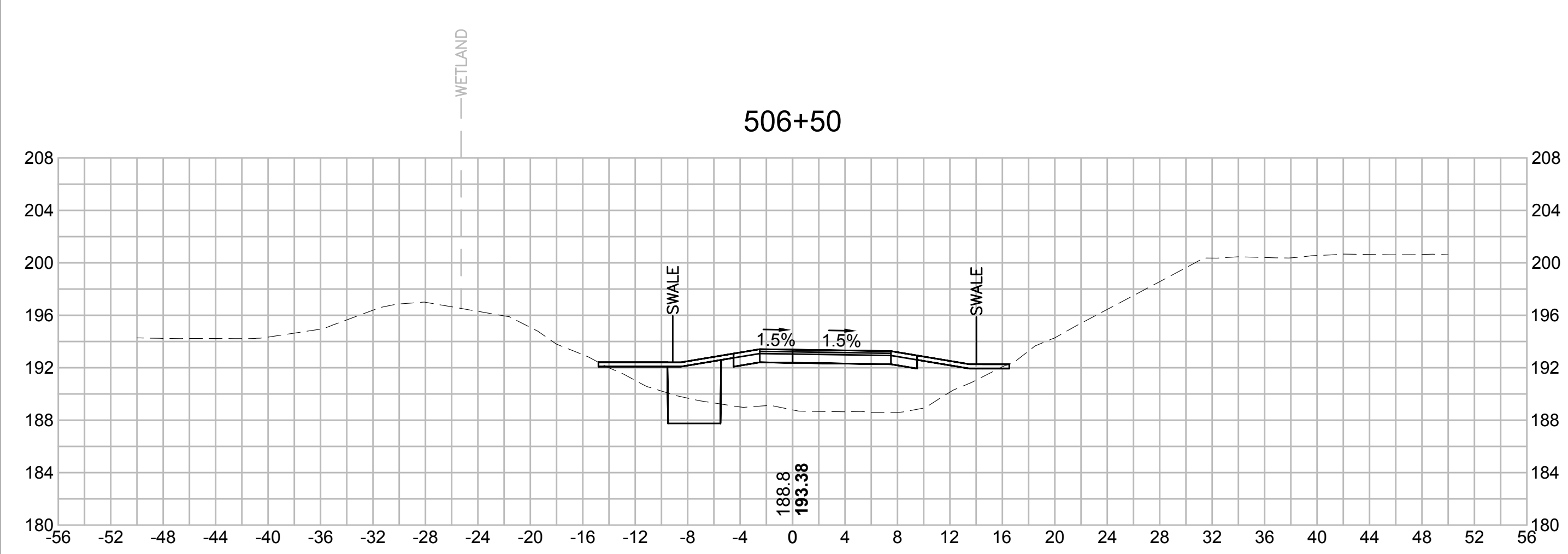
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| NO. | | DESCRIPTION | | BY | DATE | APPR. |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | |
| CROSS SECTIONS | | | | | | |
| PLAN 287 OF 348 | | | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. | REV. |
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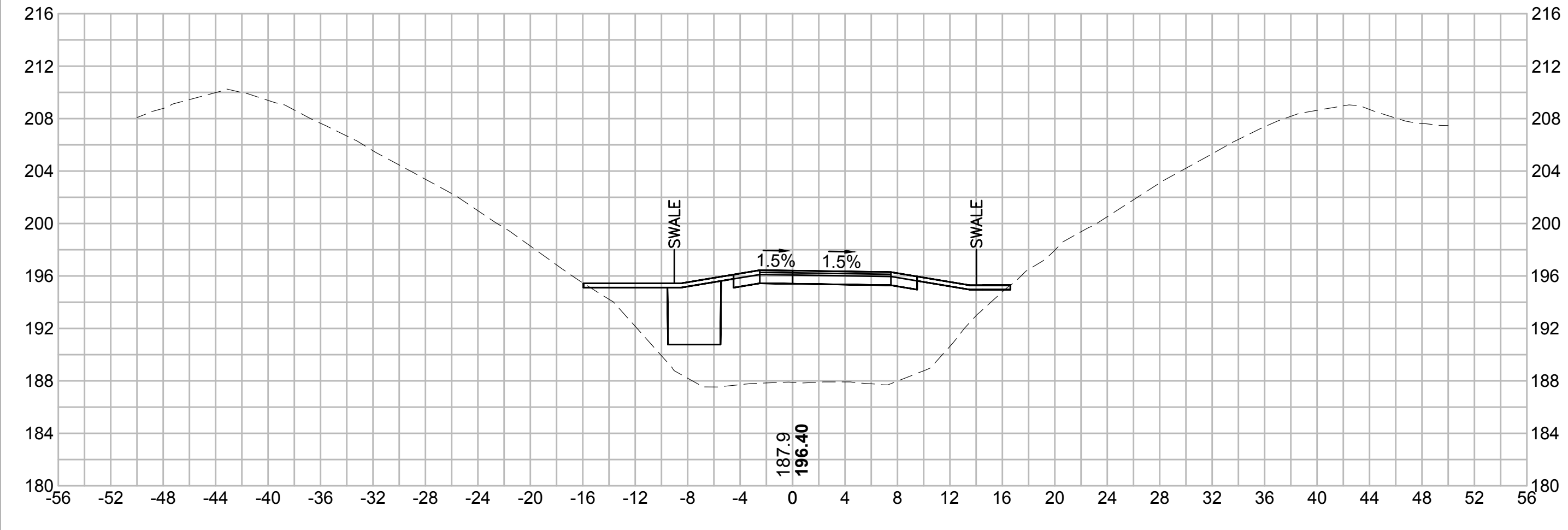
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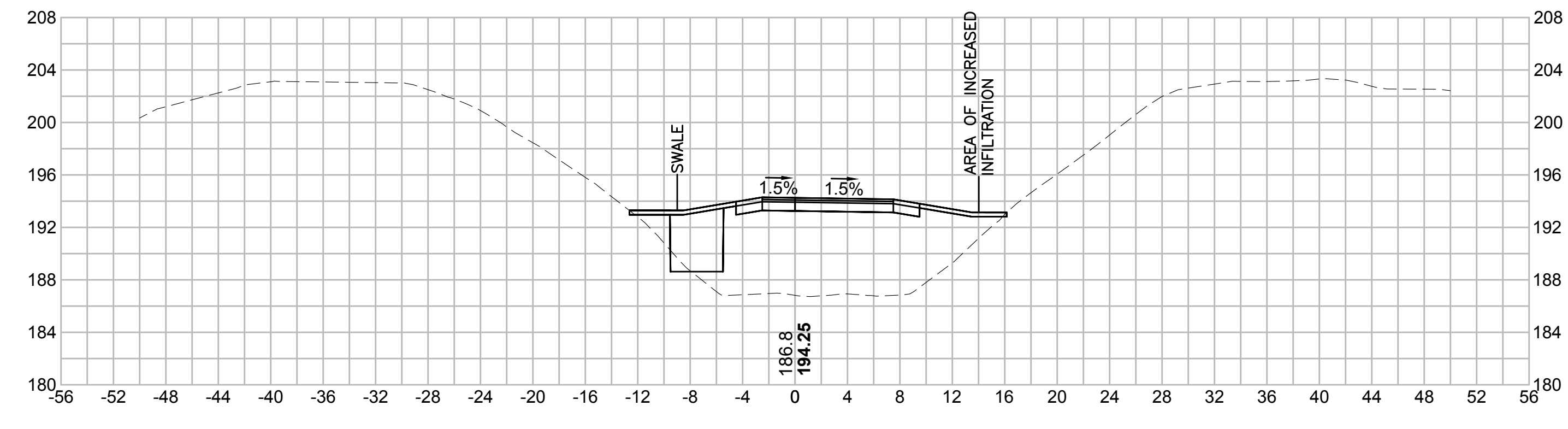
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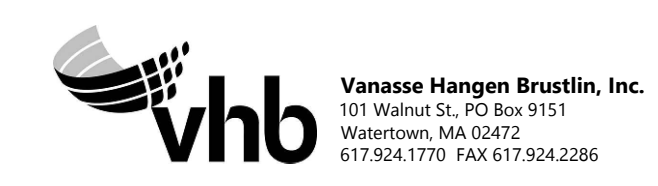
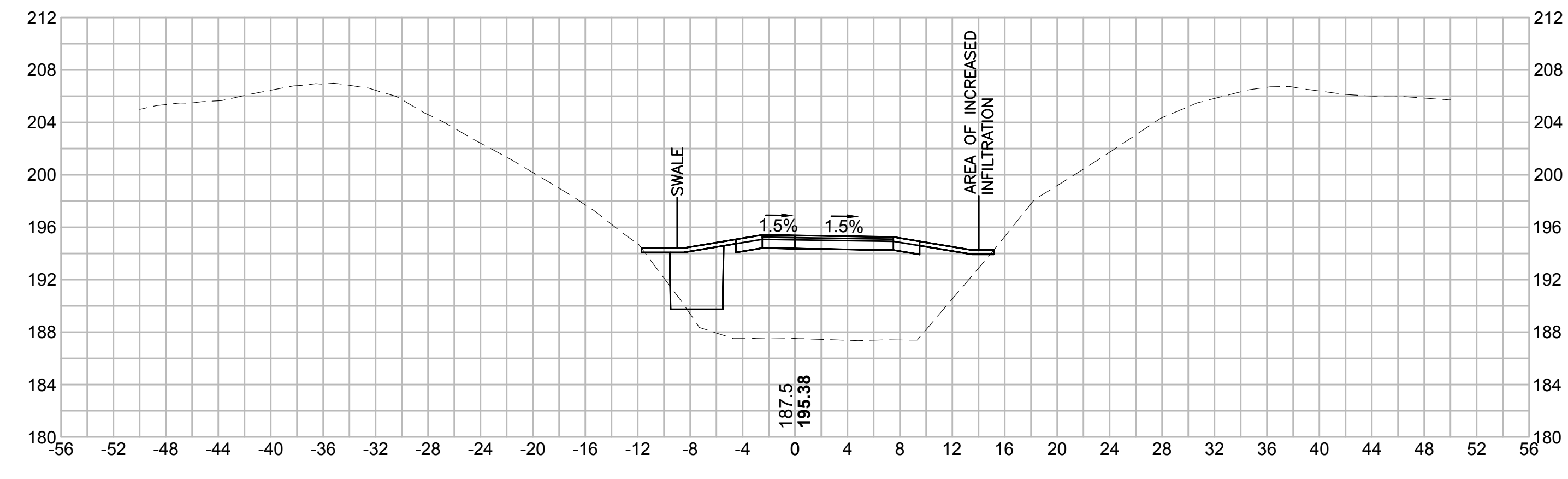
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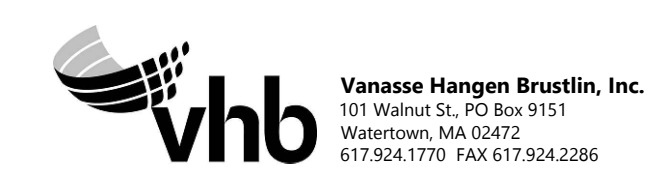
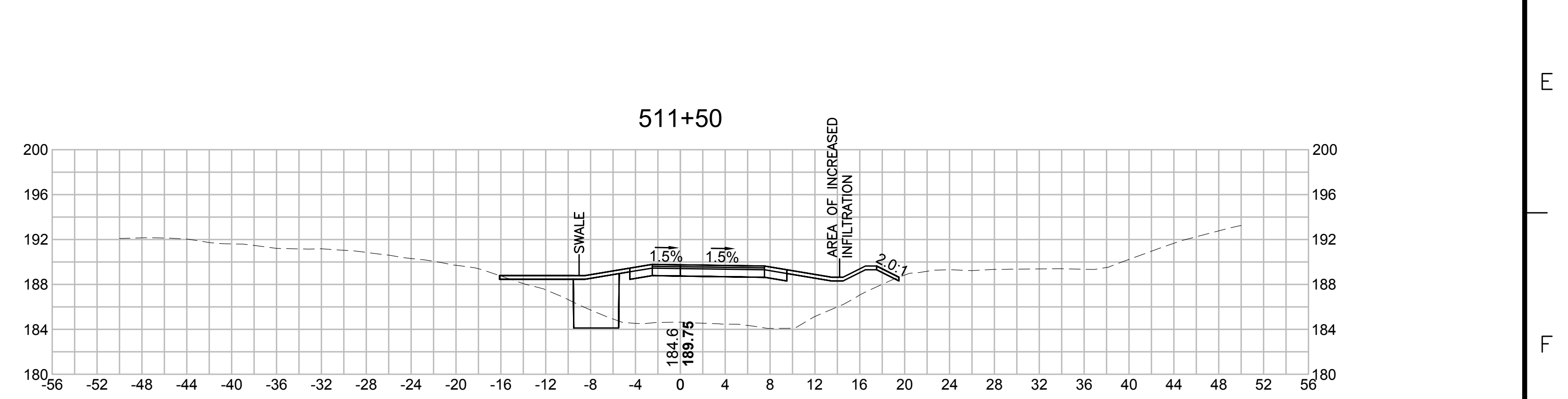
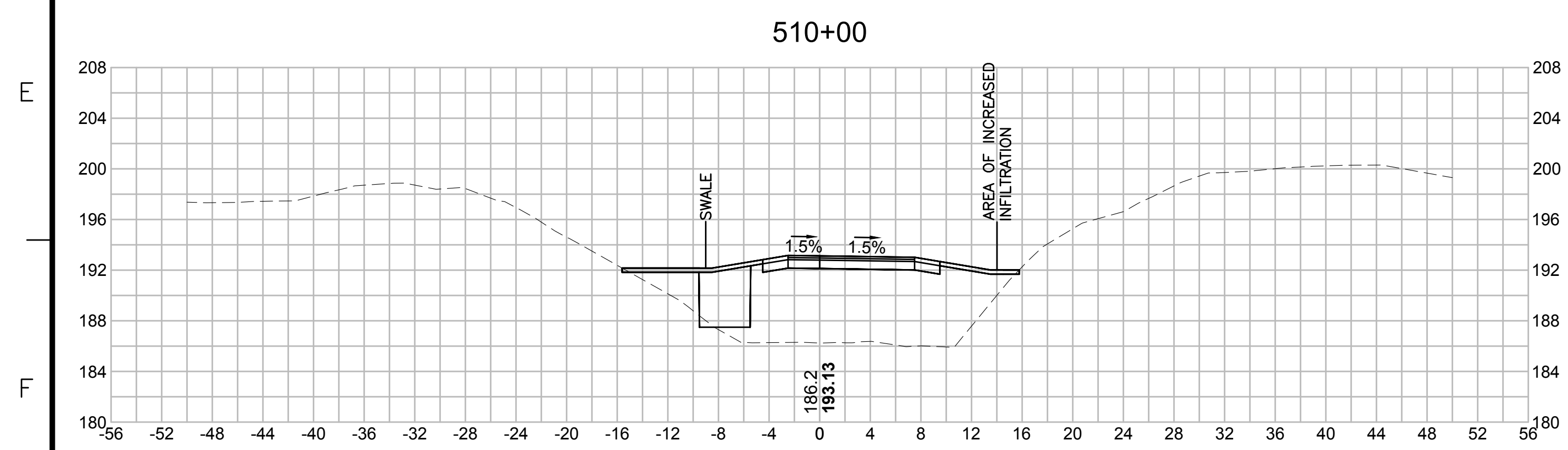
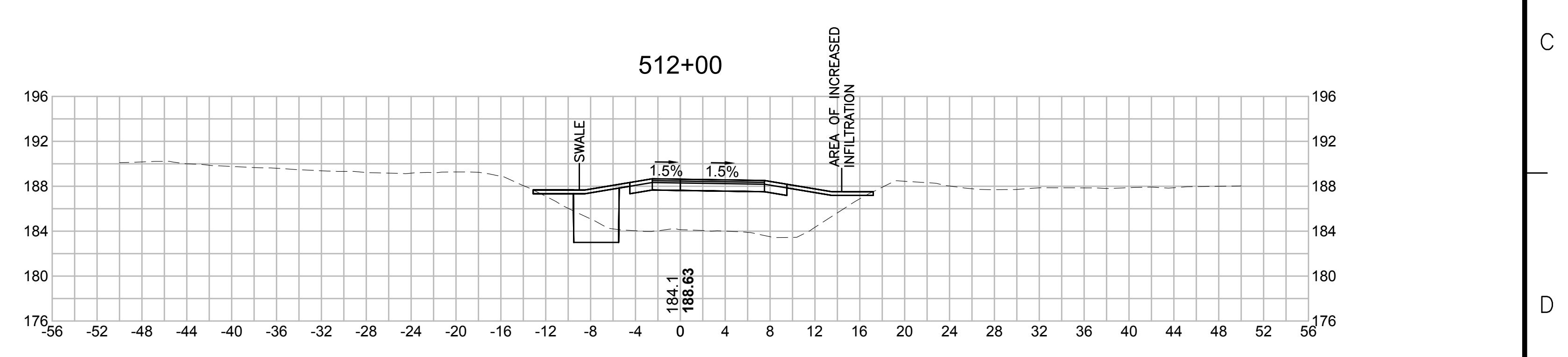
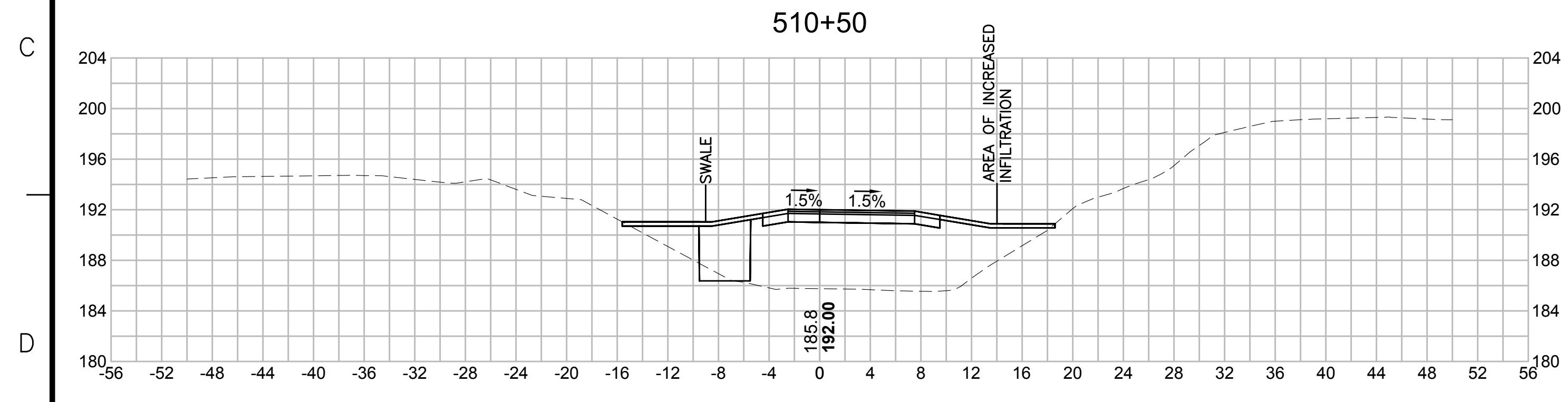
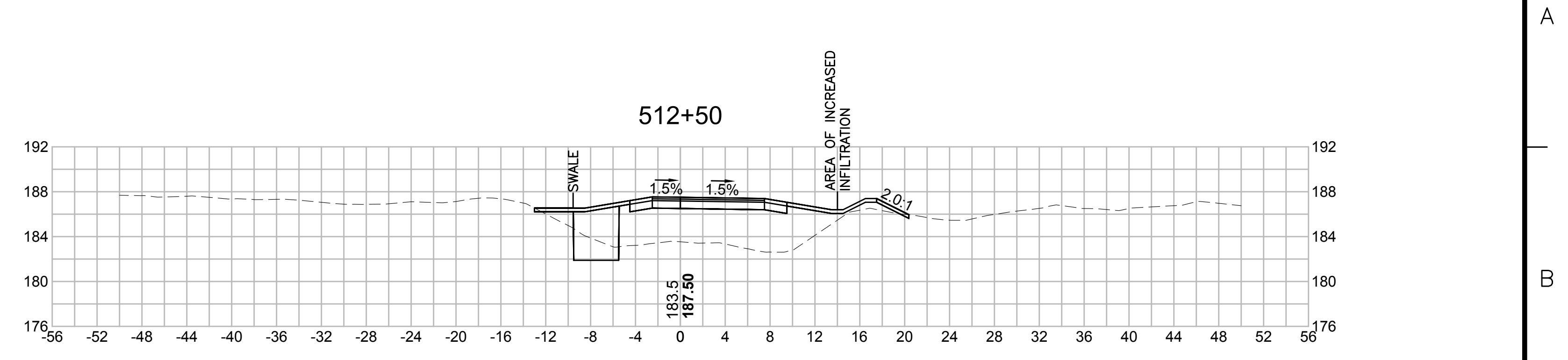
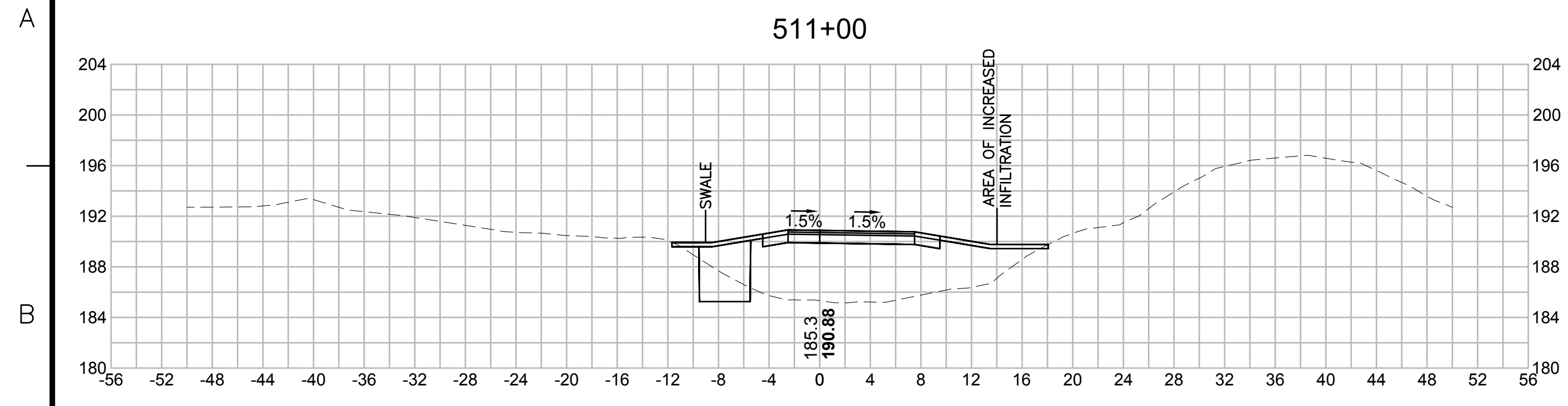
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 288 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
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1 2 3 4 5 6 7 8 9 10 11

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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 289 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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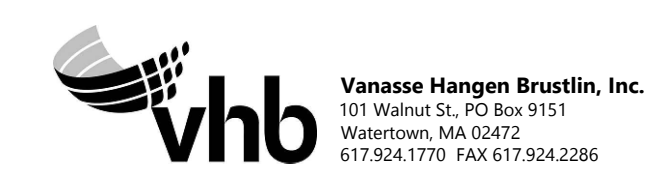
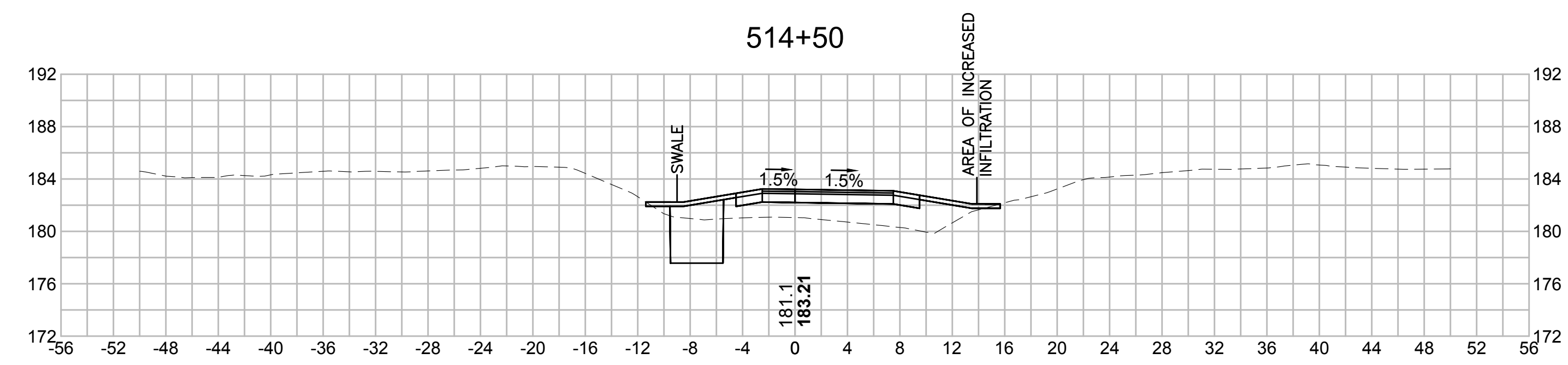
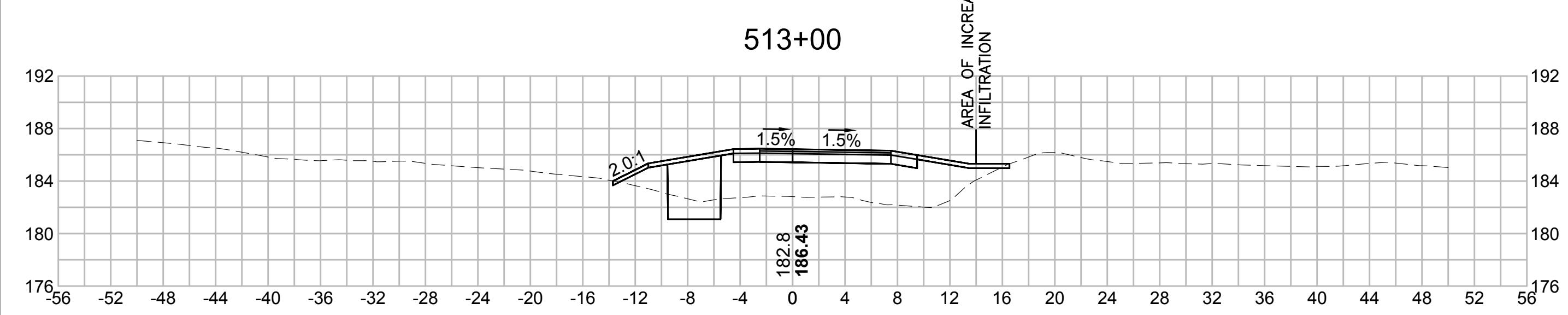
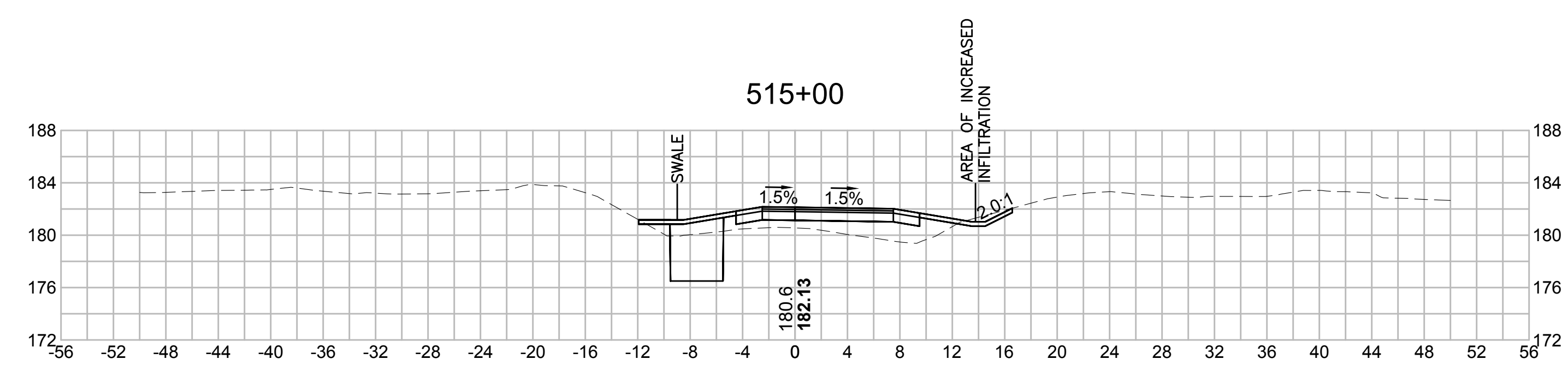
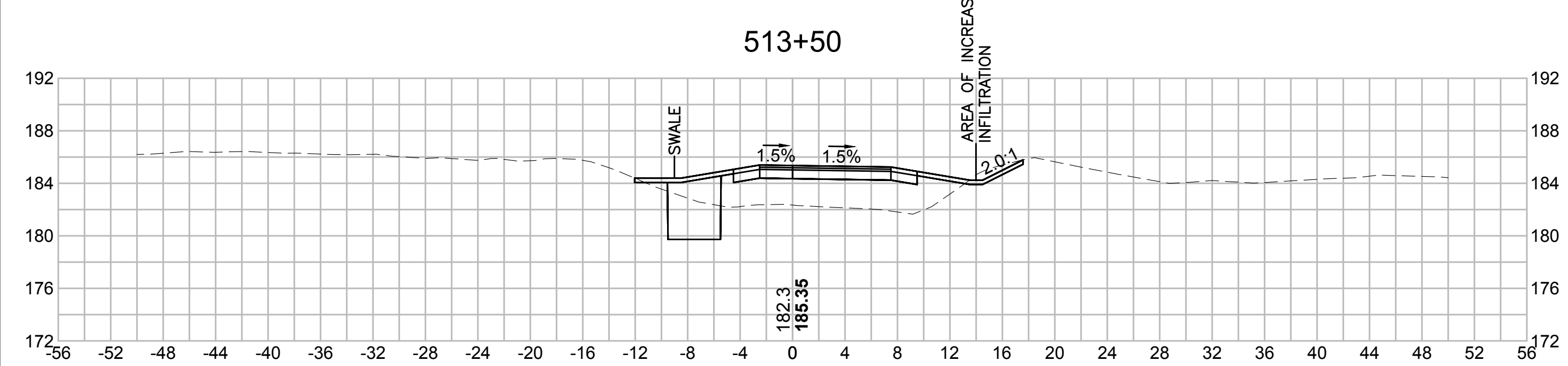
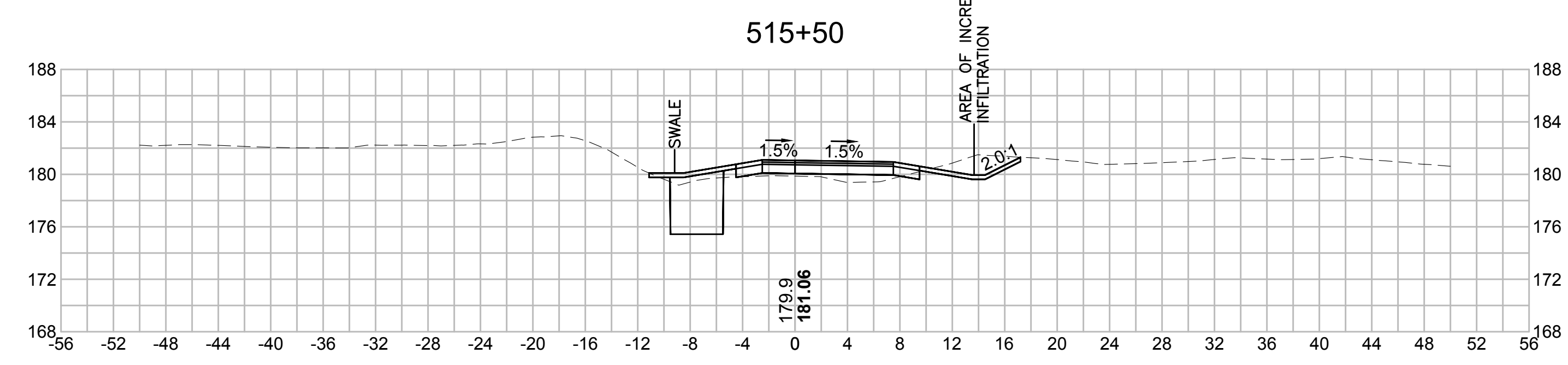
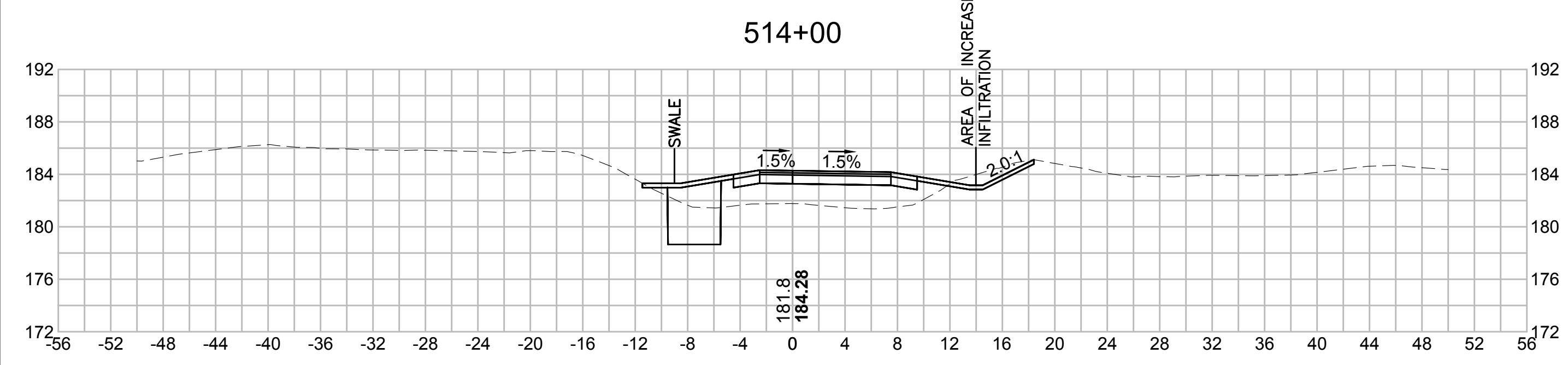
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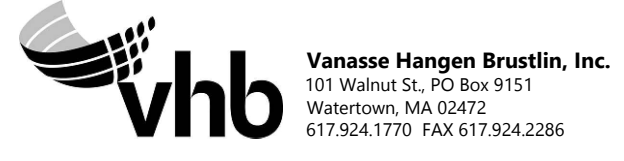
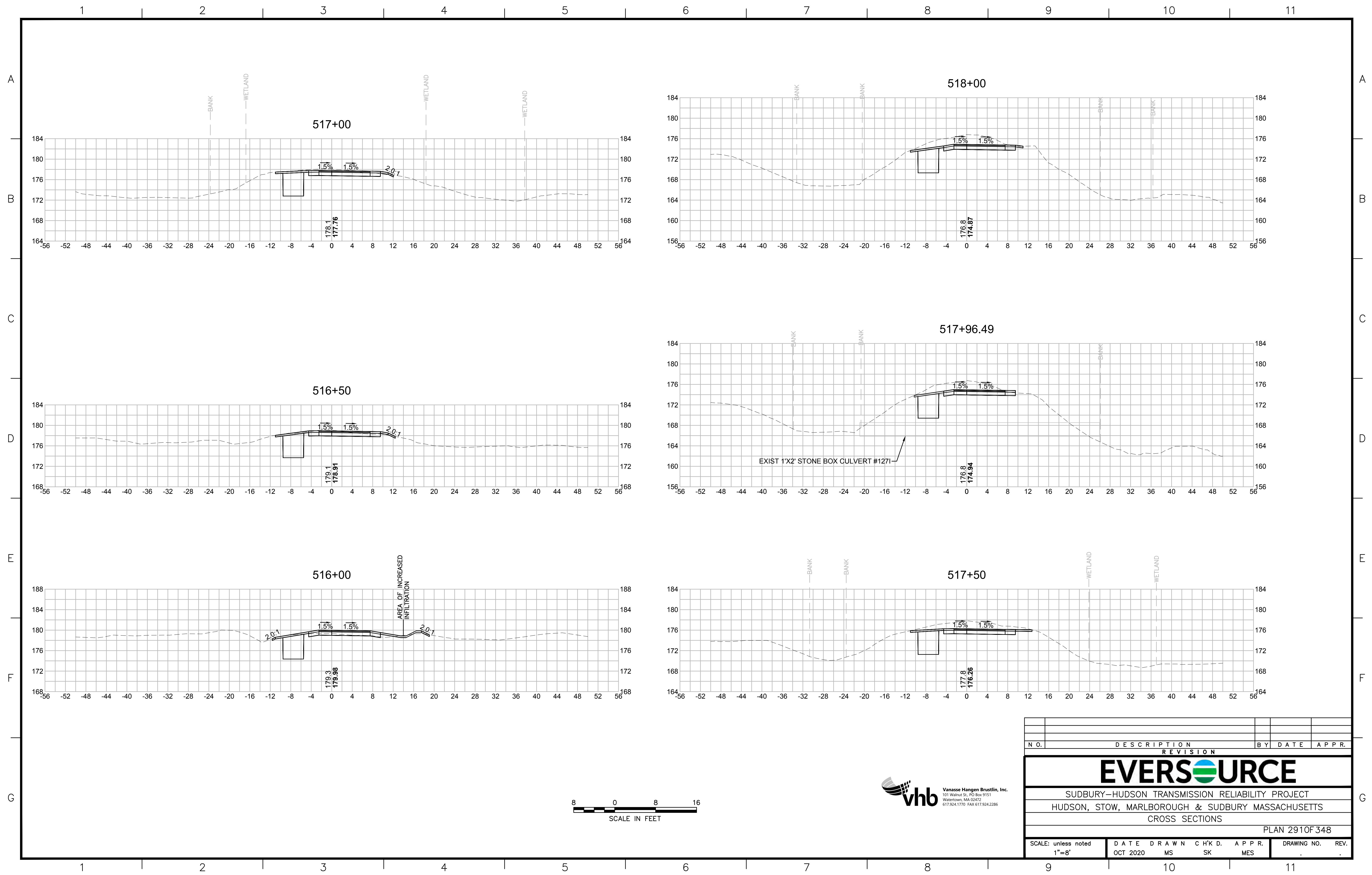
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 290 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

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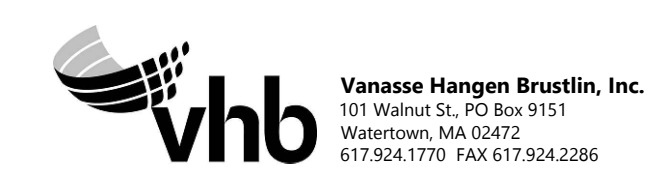
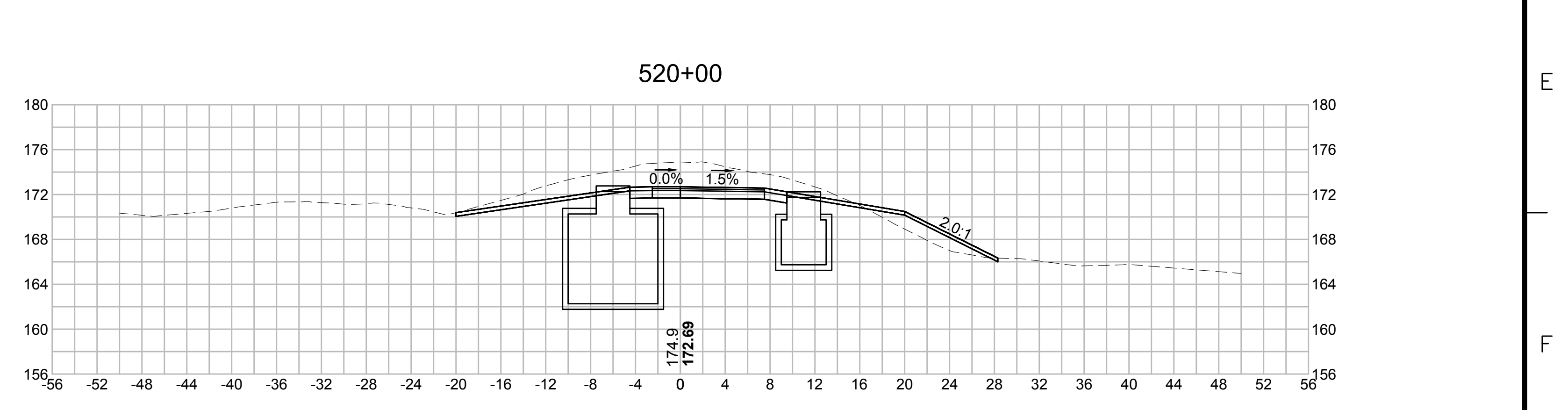
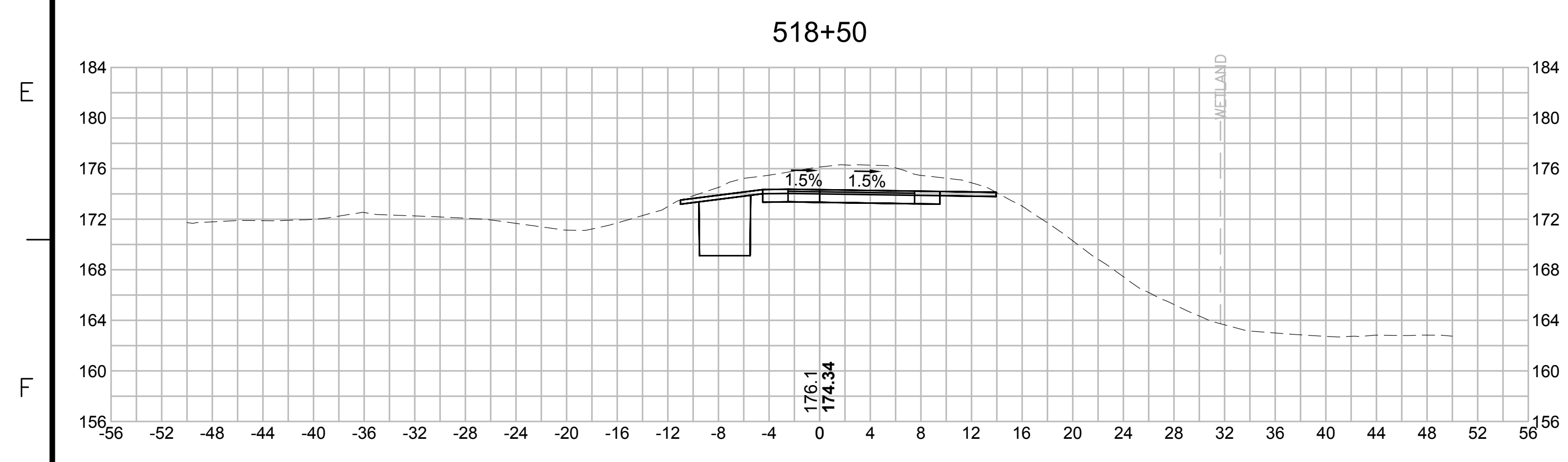
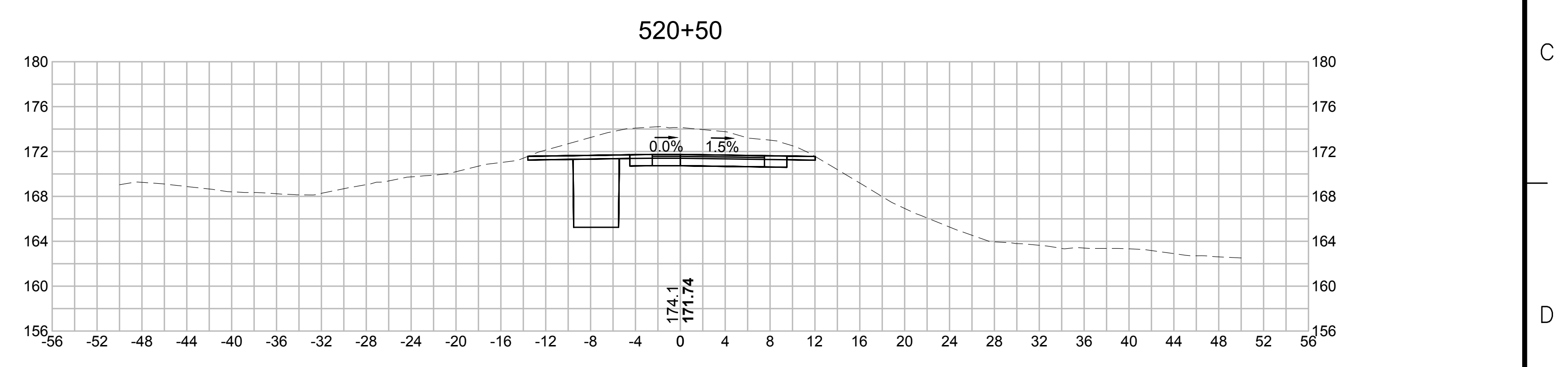
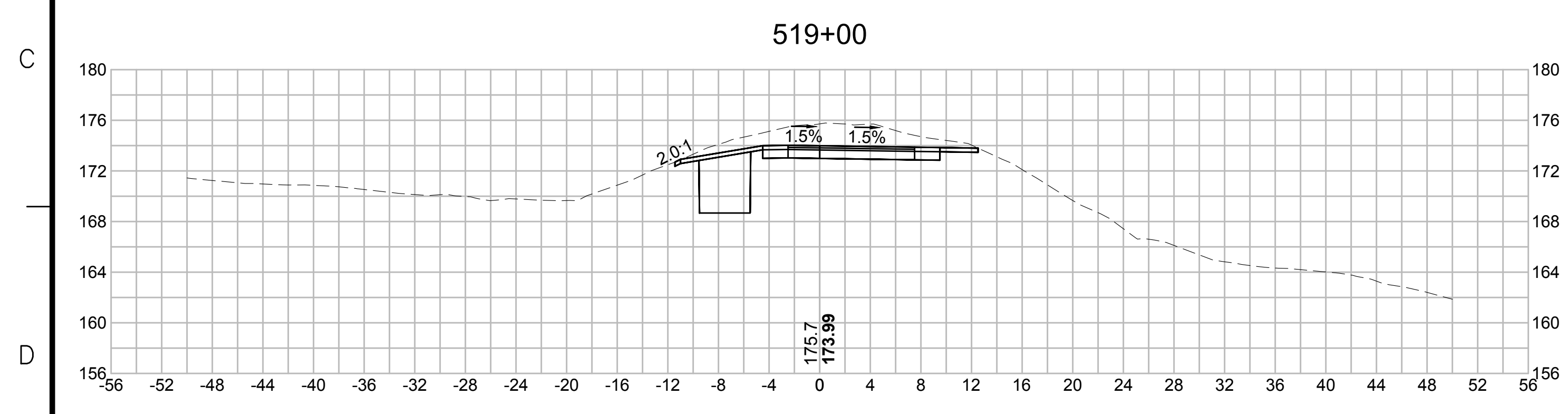
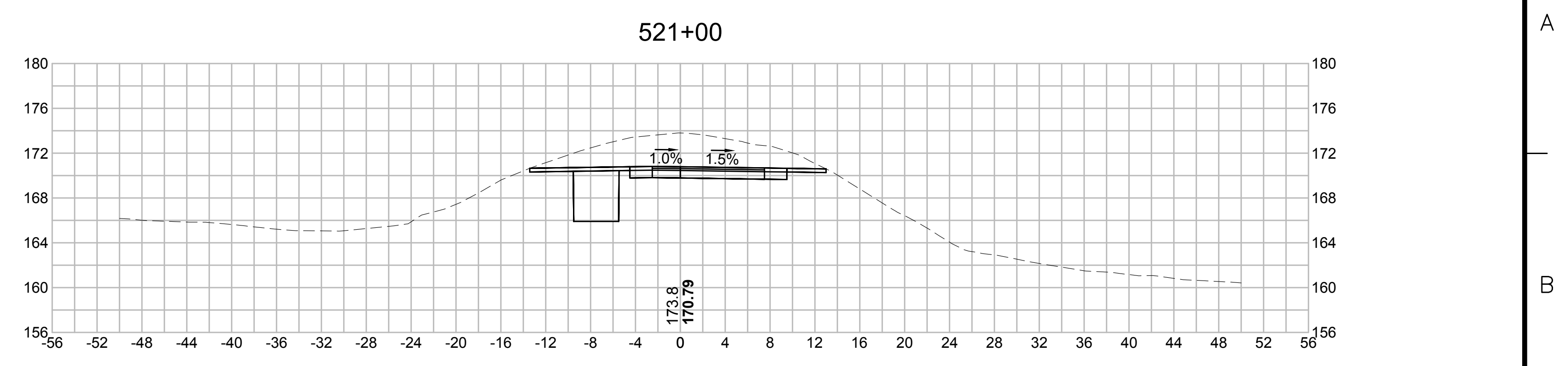
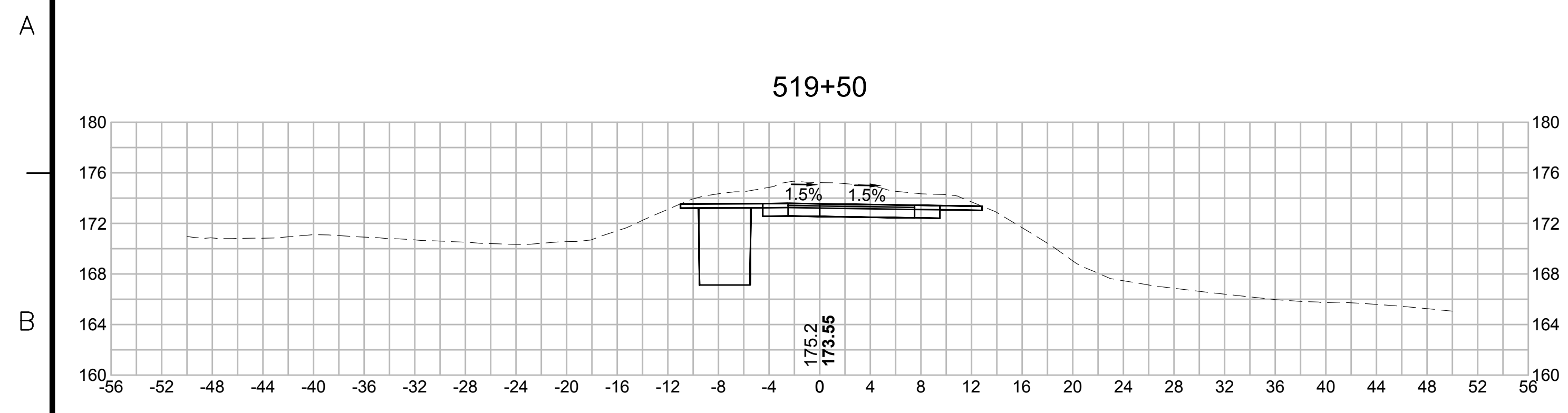
EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS

PLAN 2910F348

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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. | REV. |
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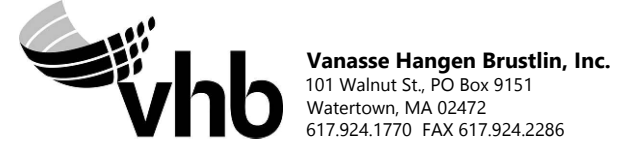
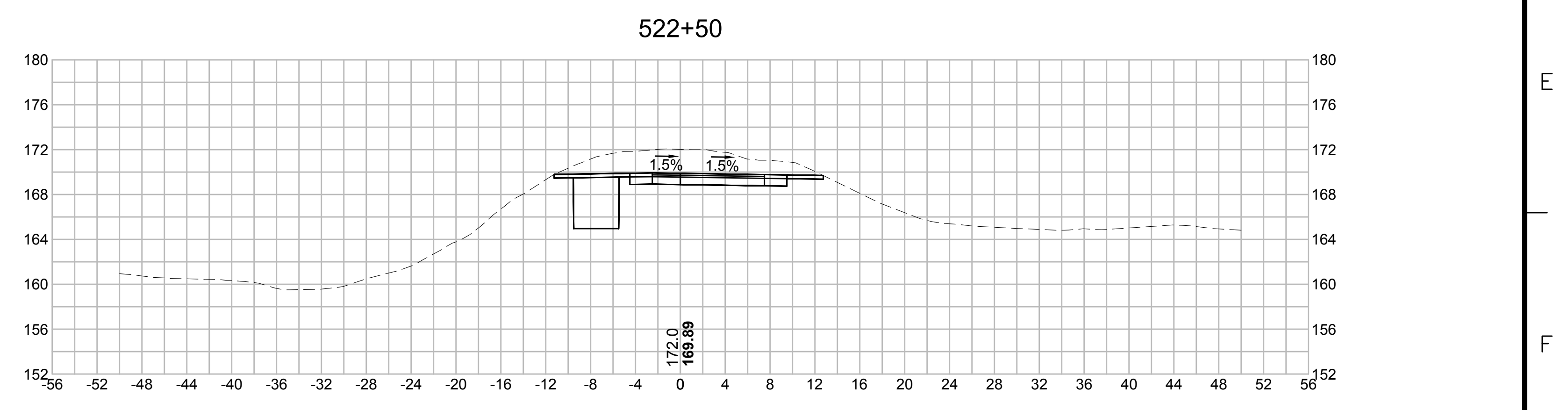
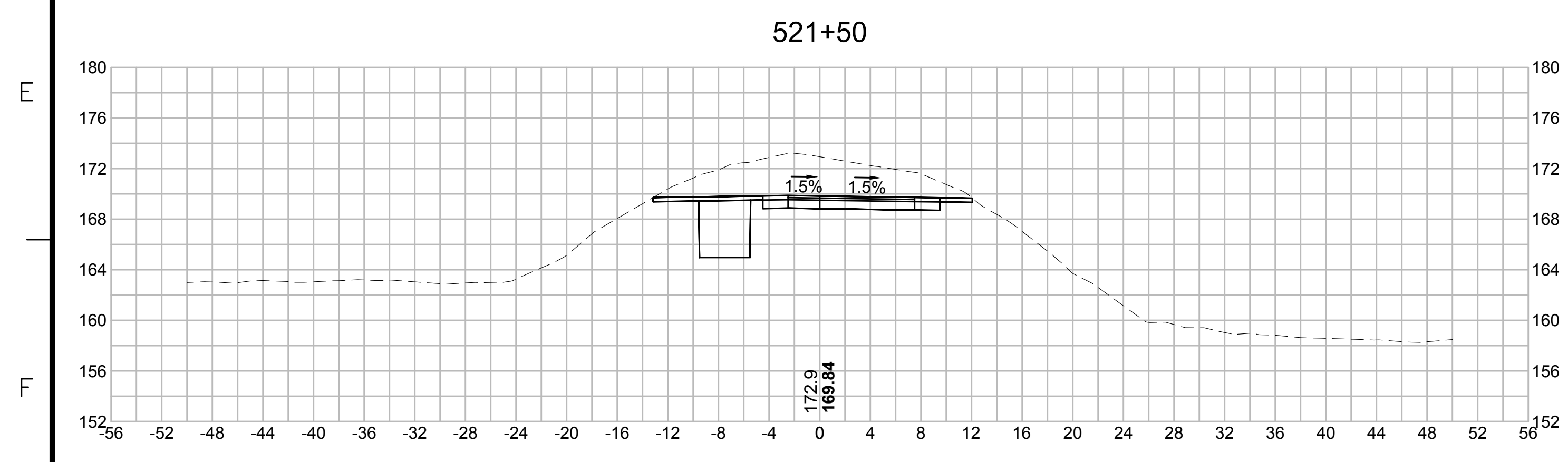
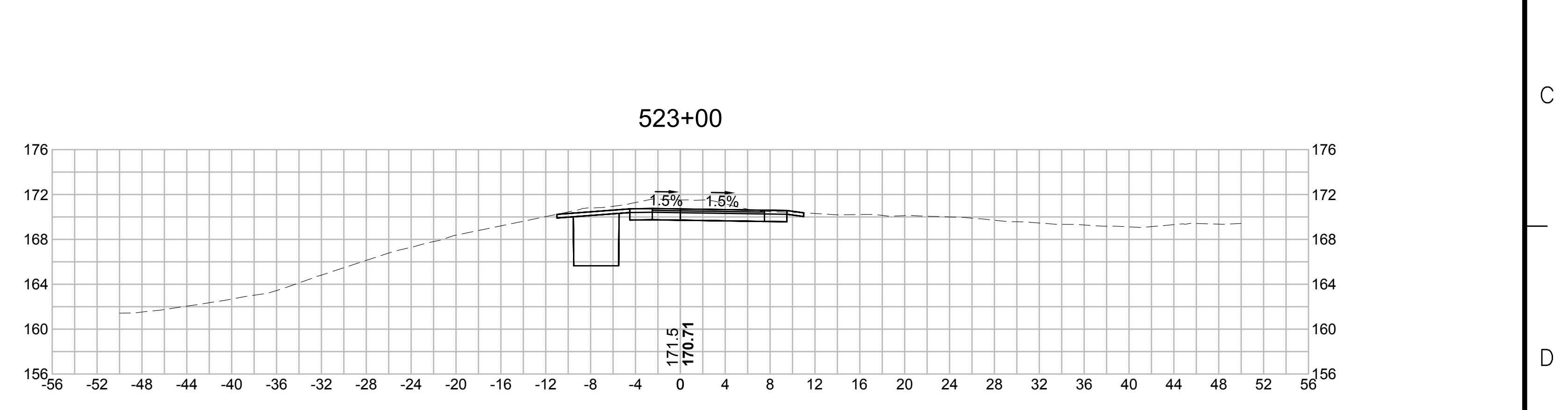
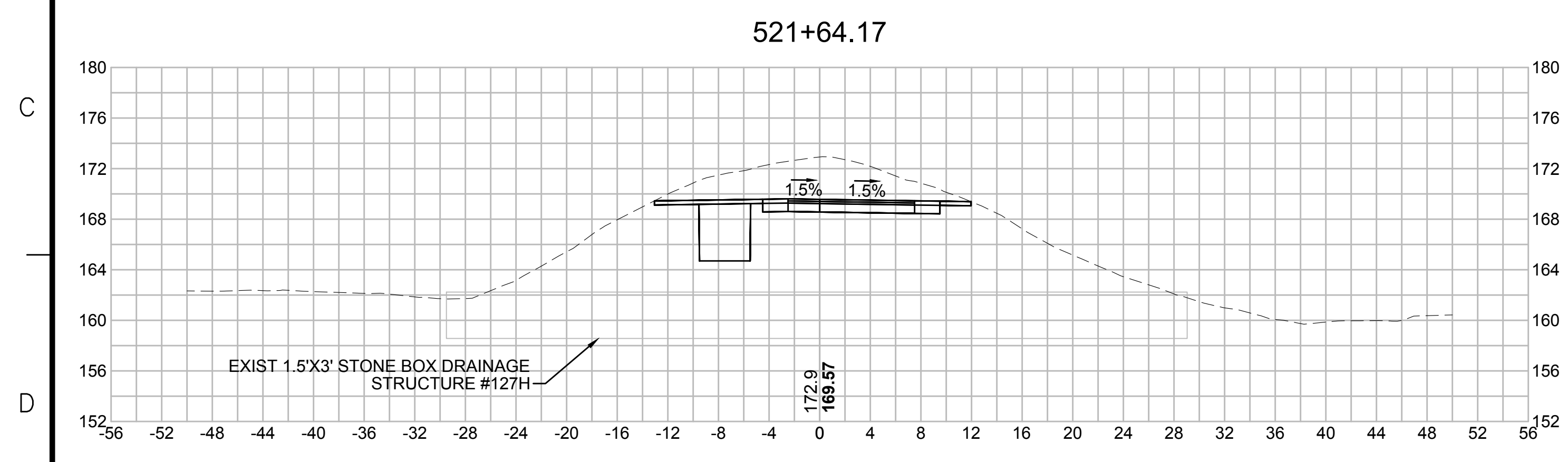
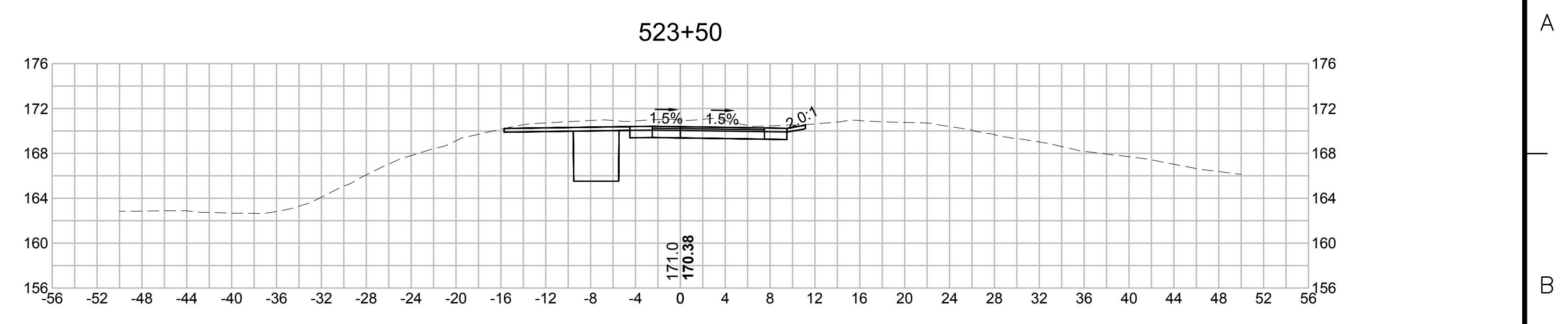
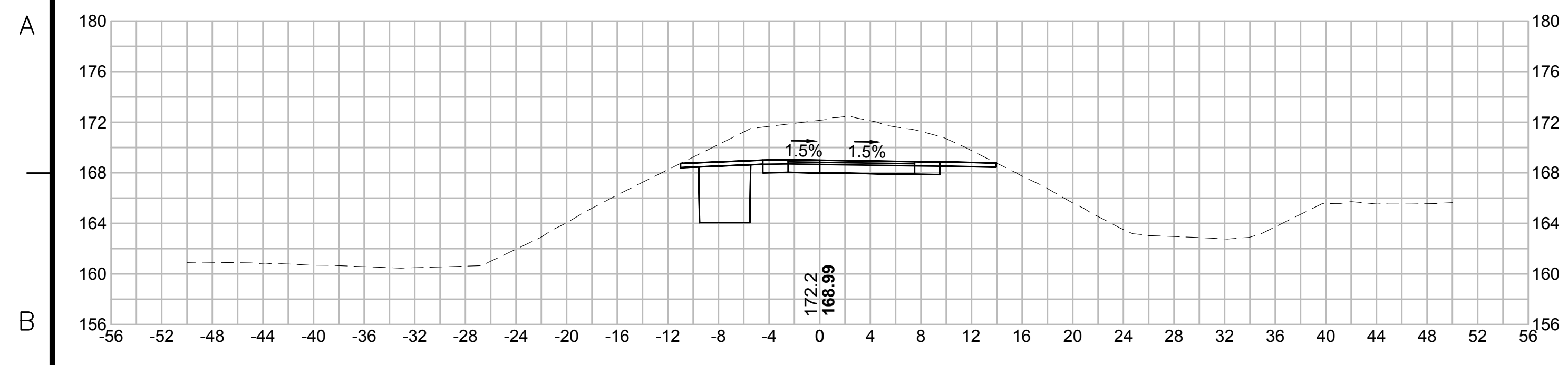
EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS
 PLAN 292 OF 348

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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. | REV. |
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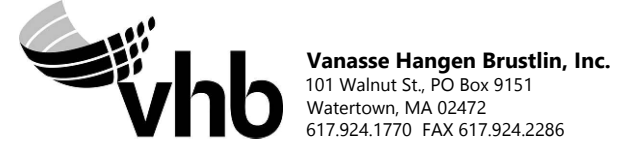
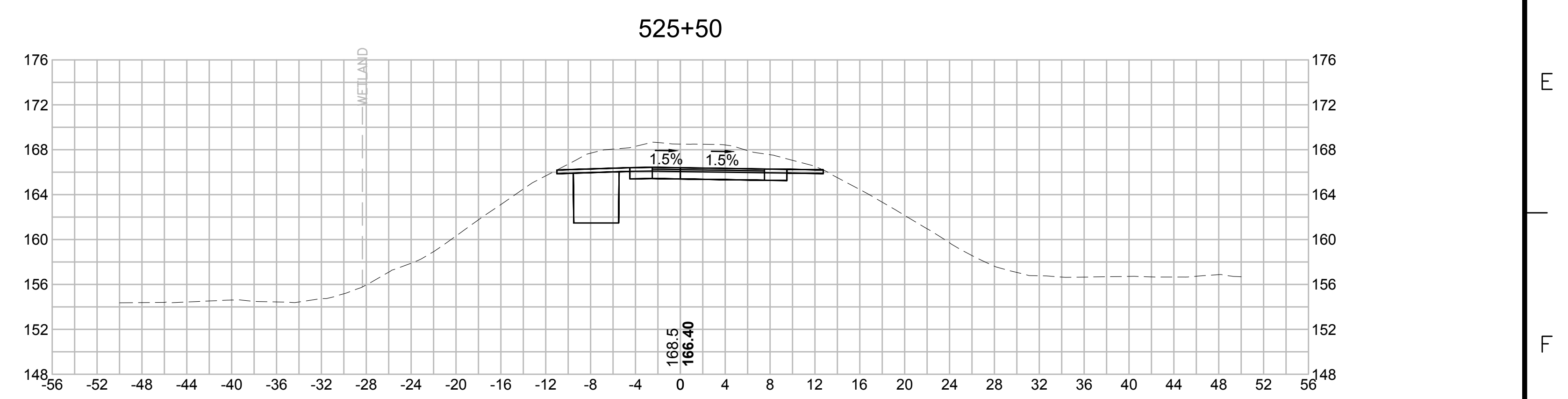
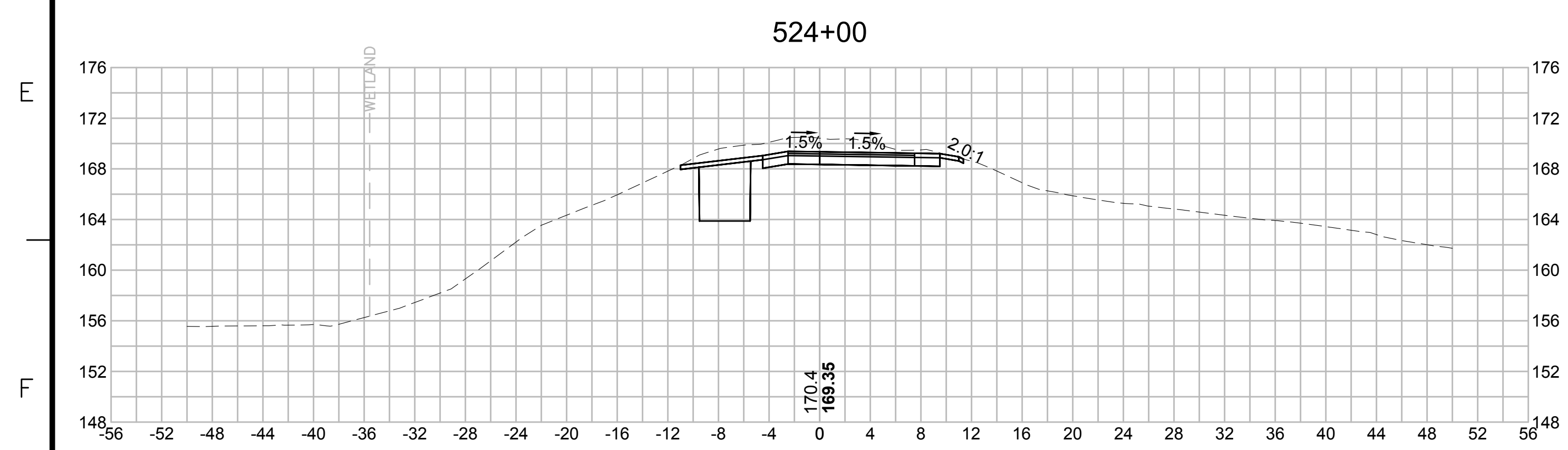
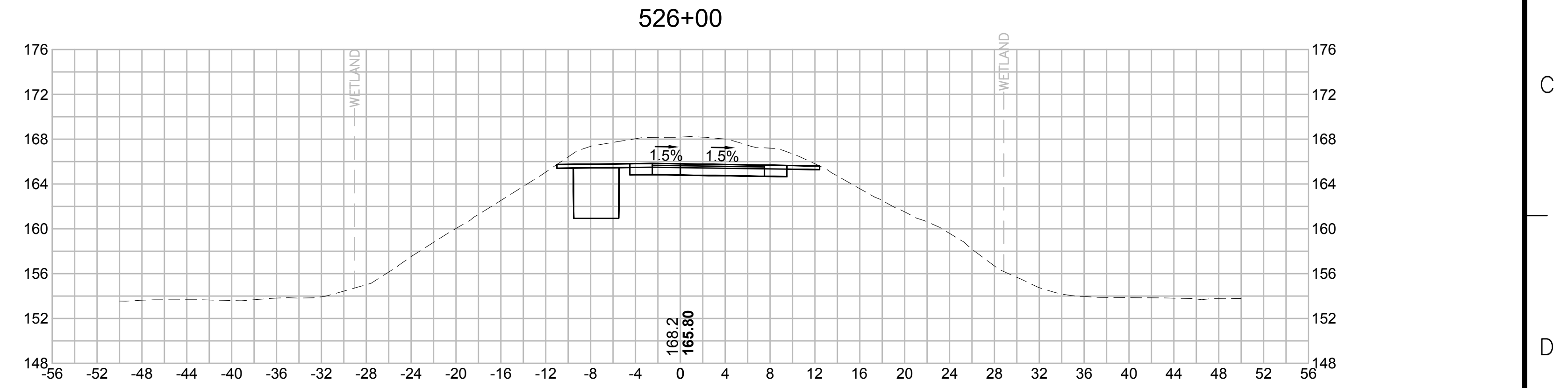
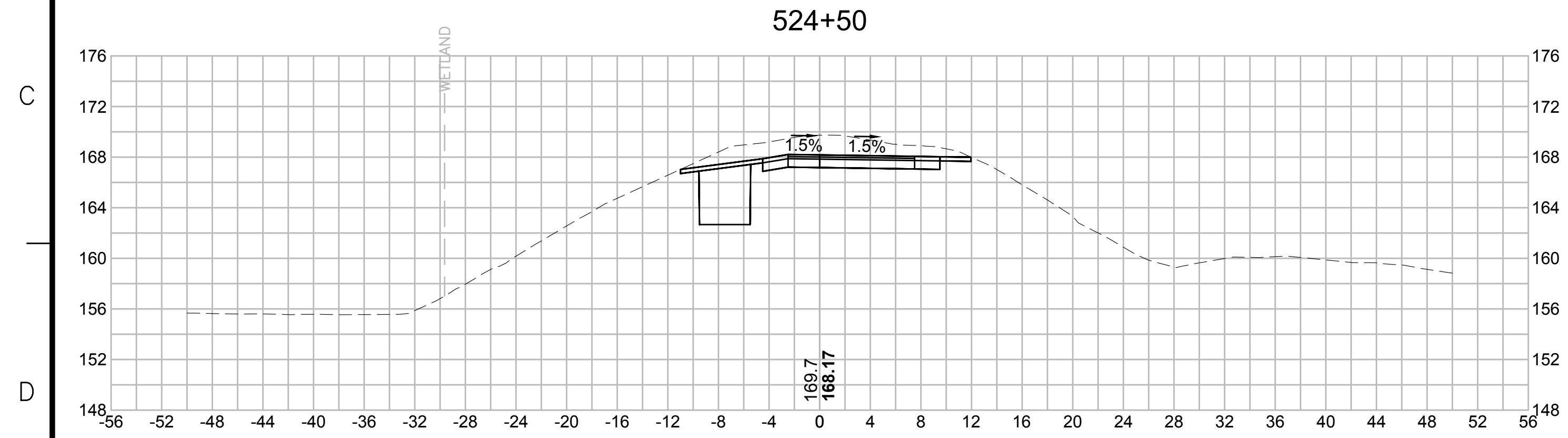
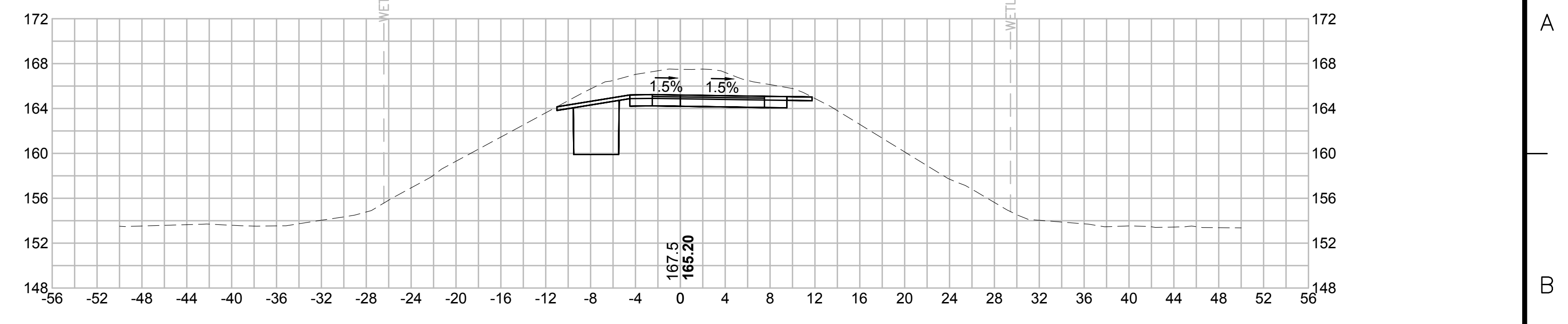
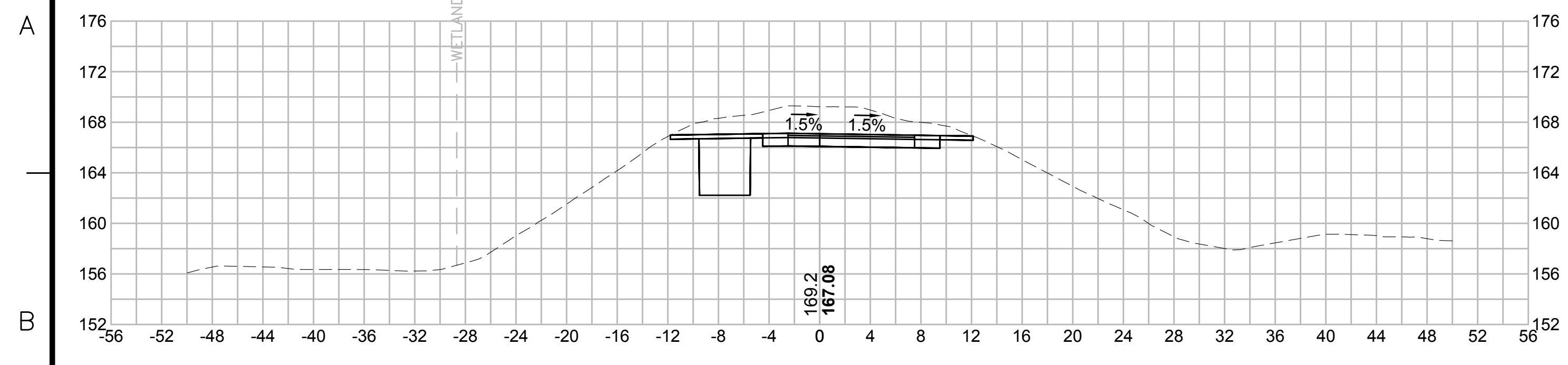
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 293 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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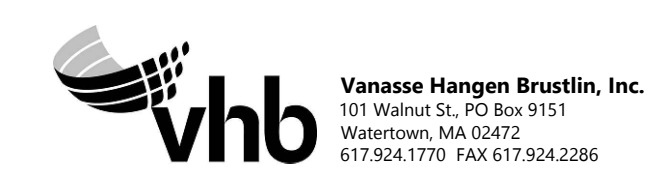
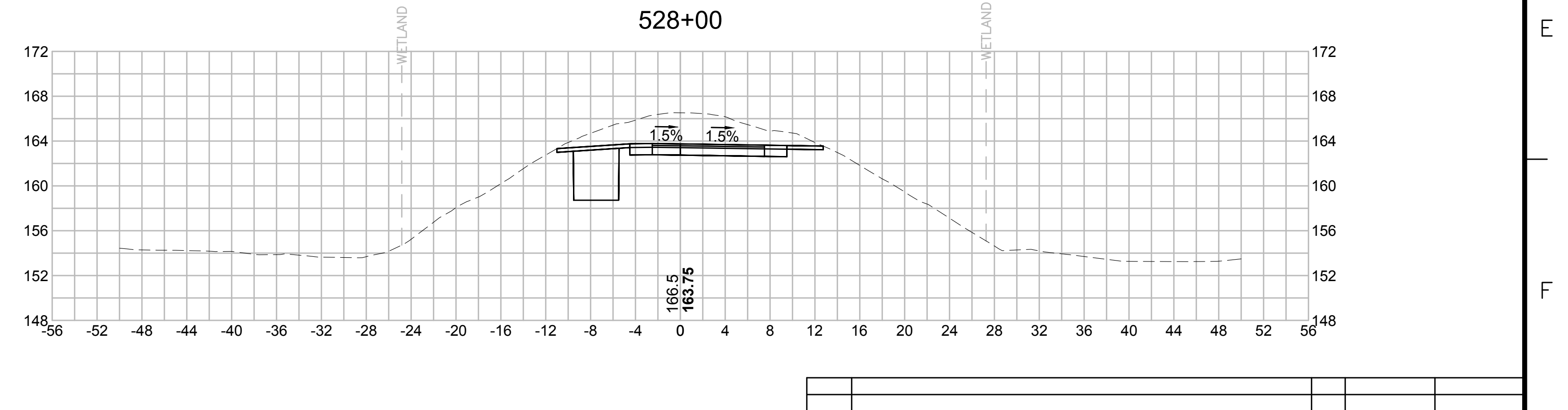
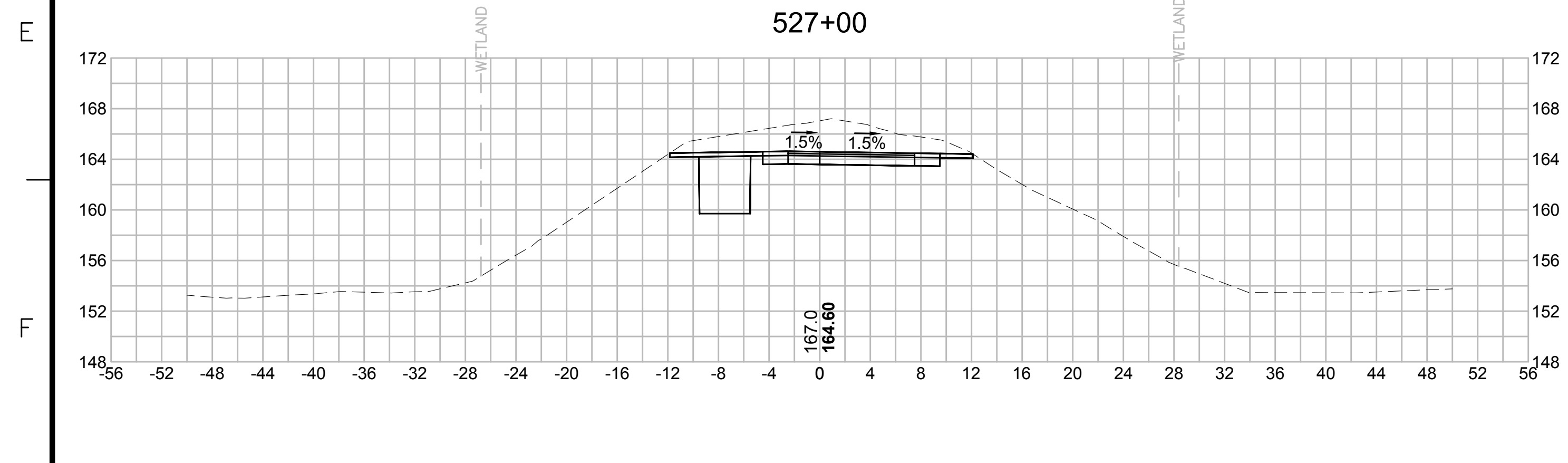
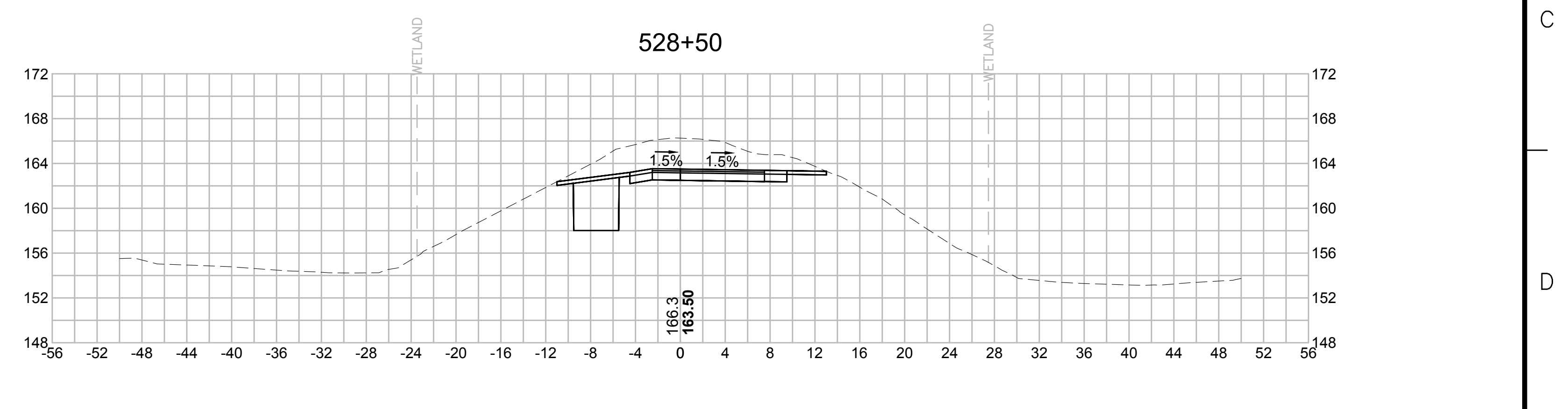
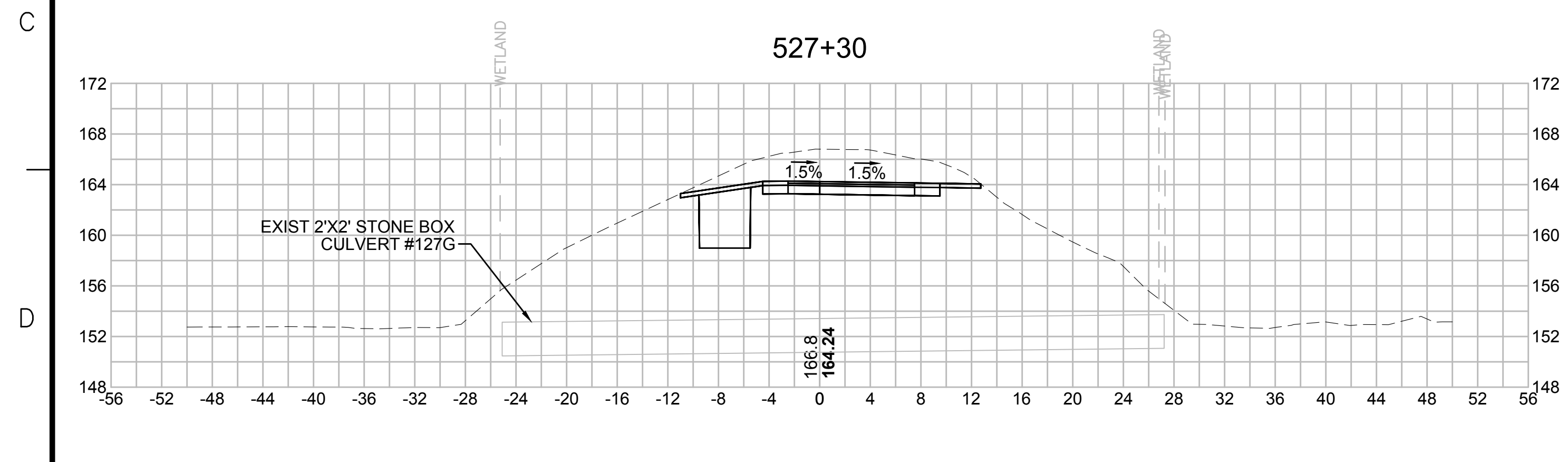
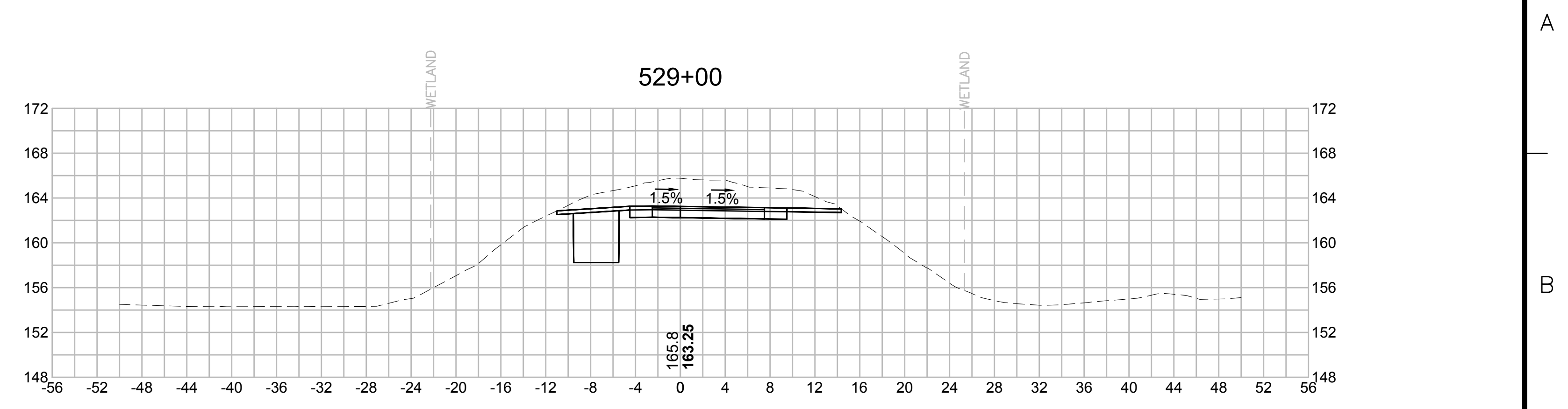
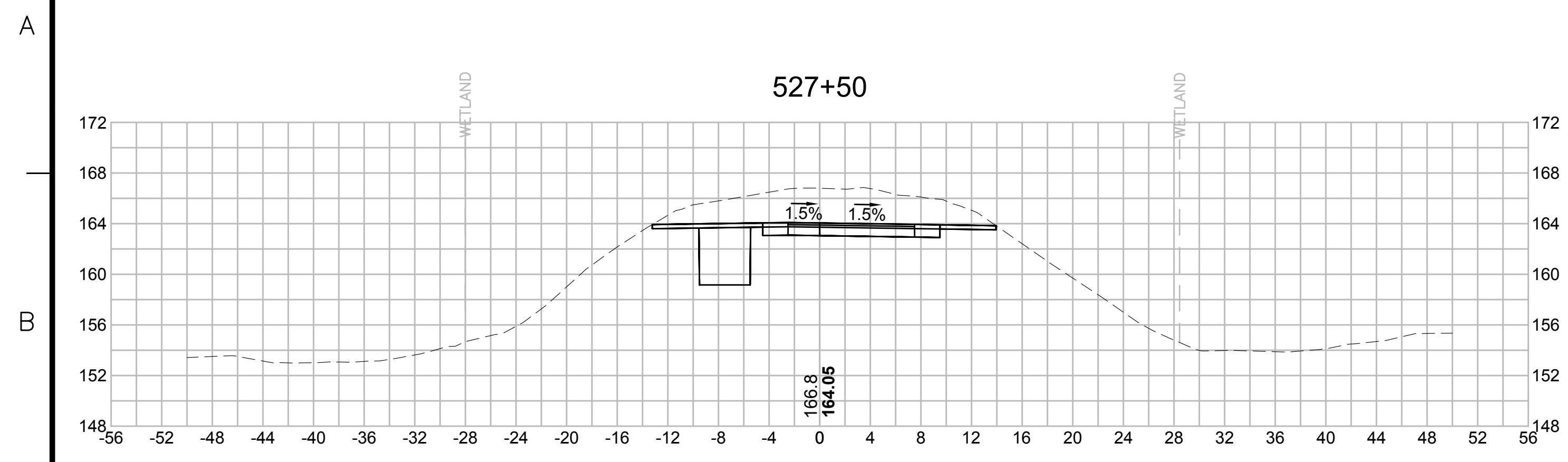
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CROSS SECTIONS

PLAN 294 OF 348

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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. | REV. |
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1 2 3 4 5 6 7 8 9 10 11



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CROSS SECTIONS

PLAN 295 OF 348

| | | | | | | |
|------------------------------|------------------|-------------|---------------|-----------------|-------------|------|
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. | REV. |
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1 2 3 4 5 6 7 8 9 10 11

1 2 3 4 5 6 7 8 9 10 11

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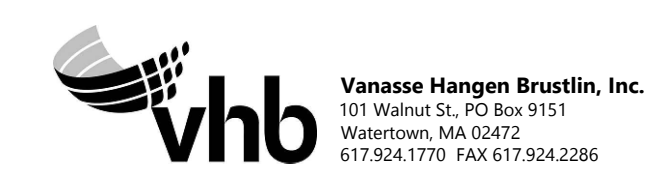
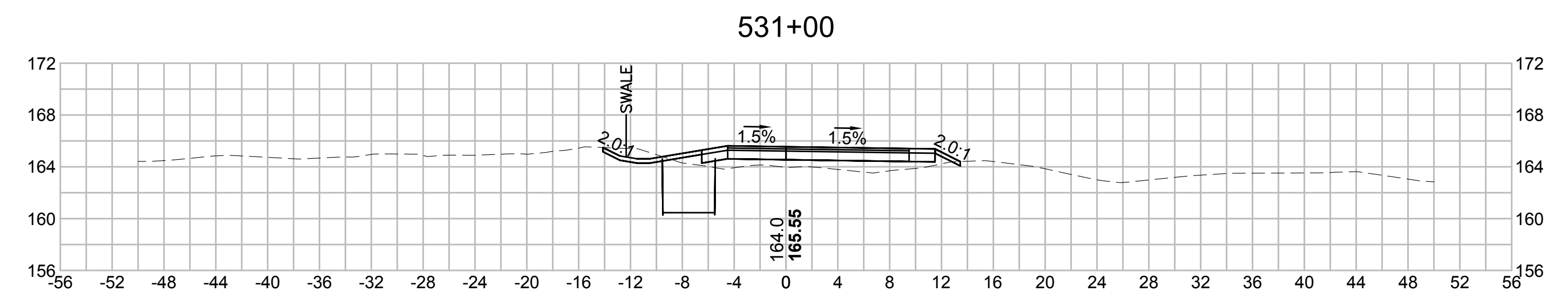
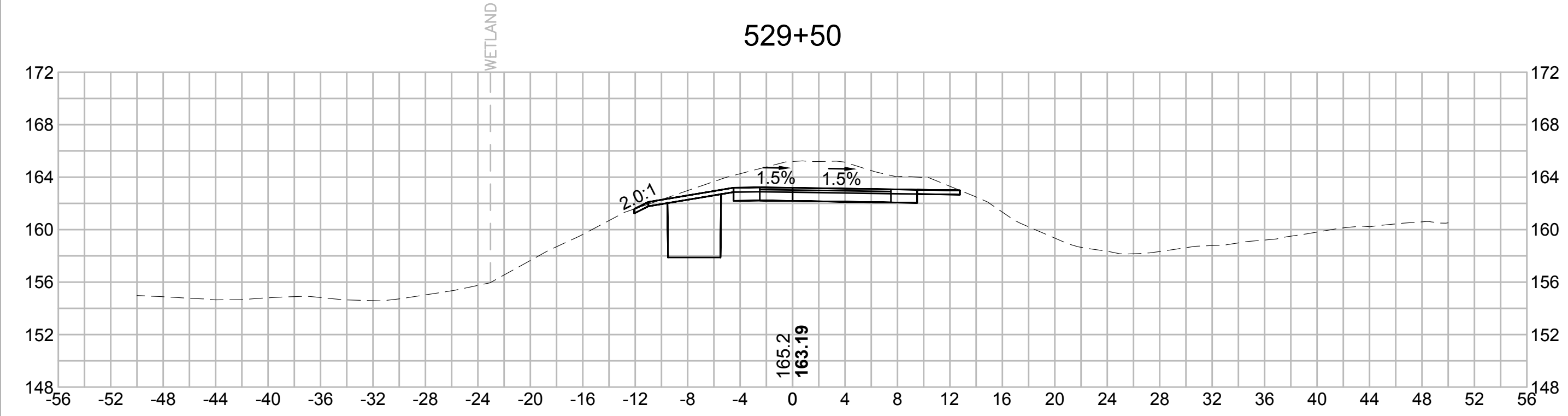
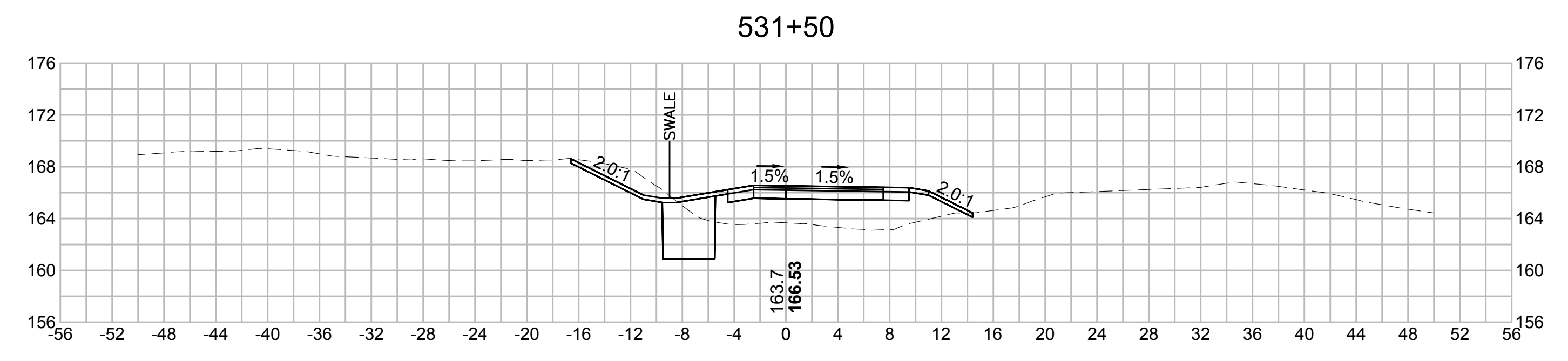
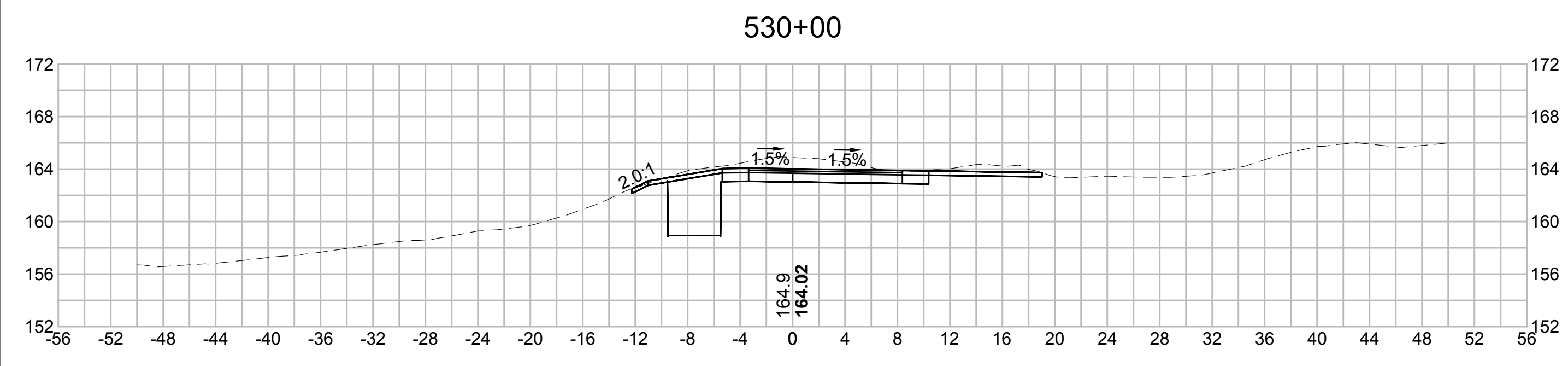
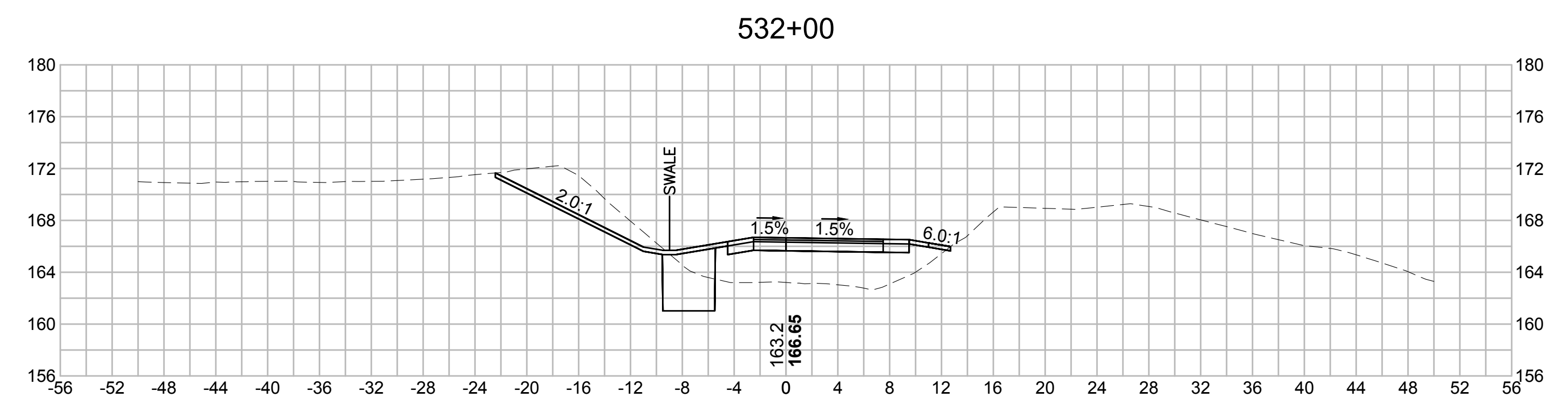
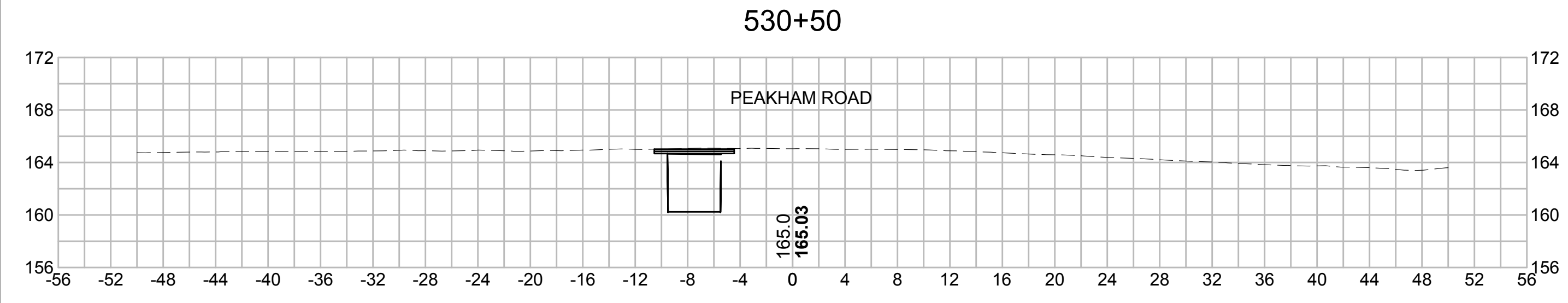
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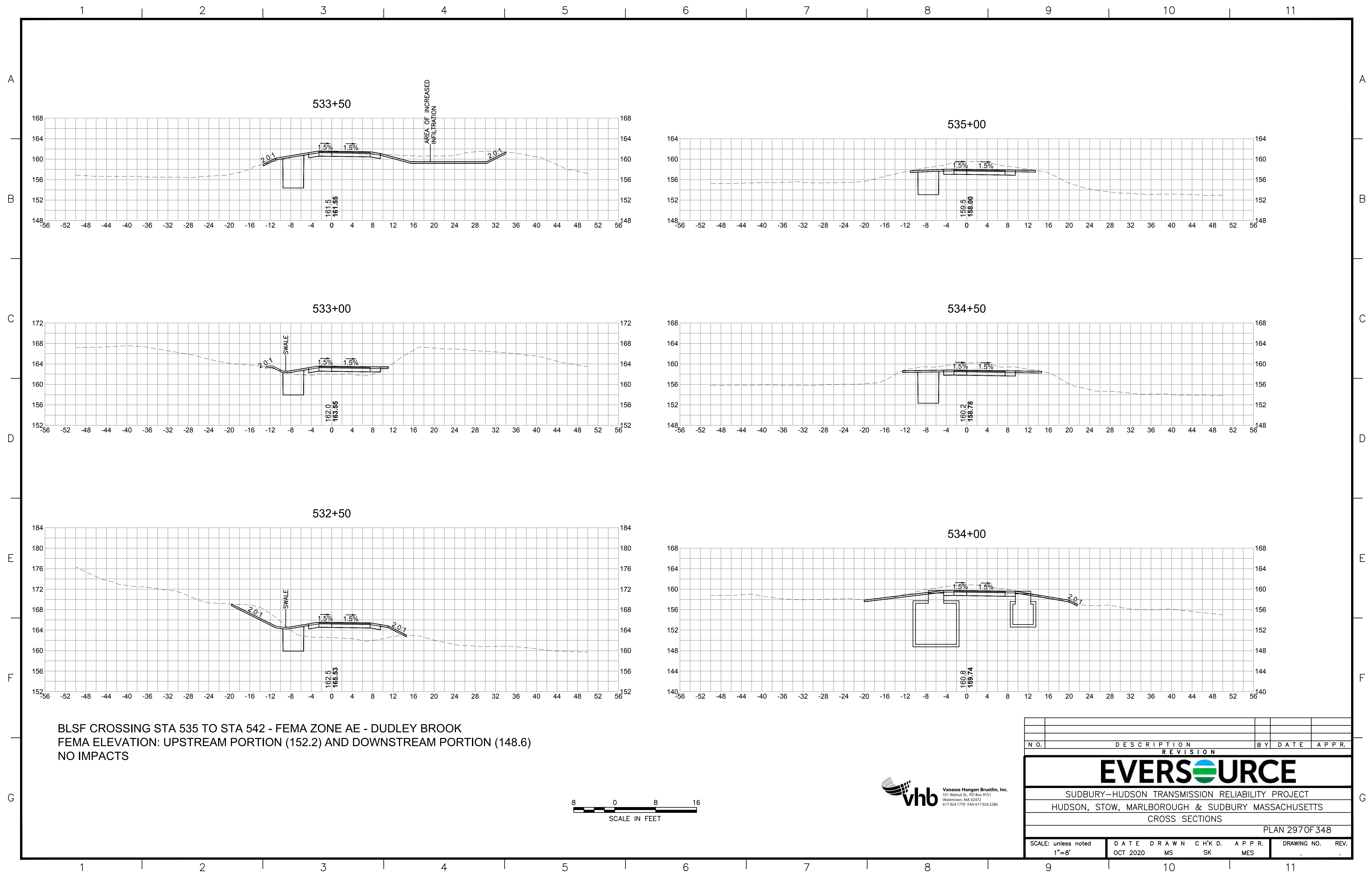
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| NO. | DESCRIPTION | | BY | DATE | APPR. |
|---|------------------|-------------|--------------|--------------|------------------|
| | REVISION | | | | |
| EVERSOURCE | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | |
| CROSS SECTIONS | | | | | |
| PLAN 296 OF 348 | | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. REV. |

1 2 3 4 5 6 7 8 9 10 11

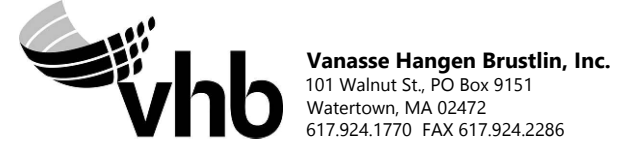
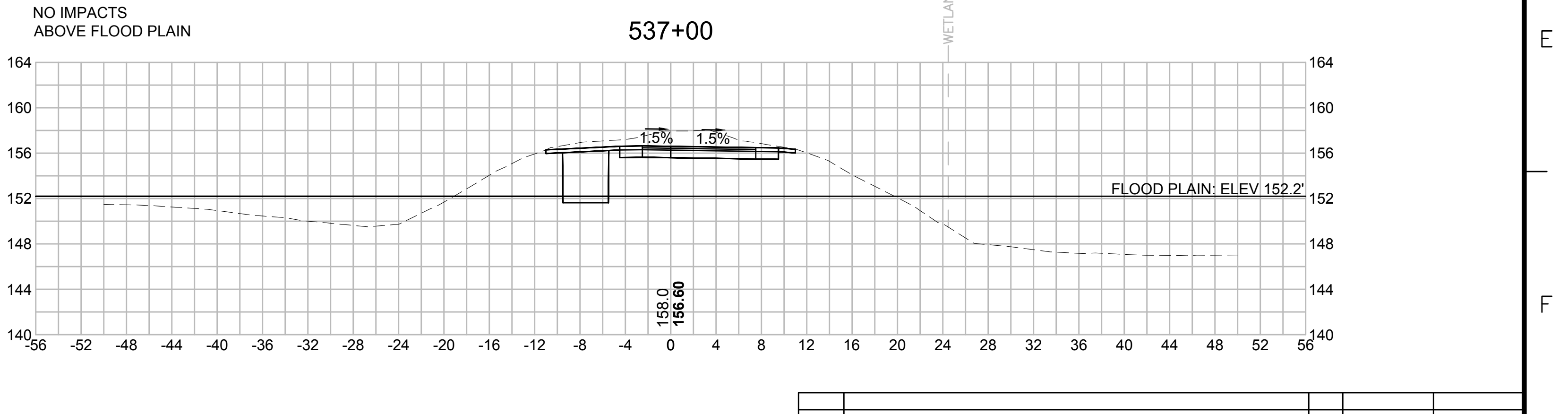
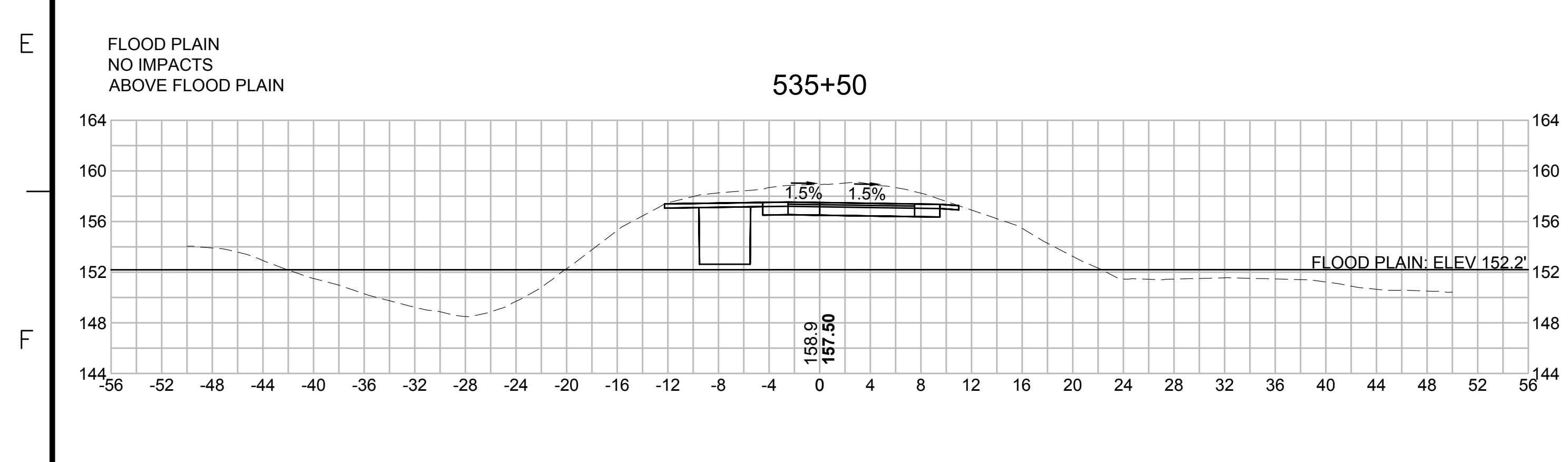
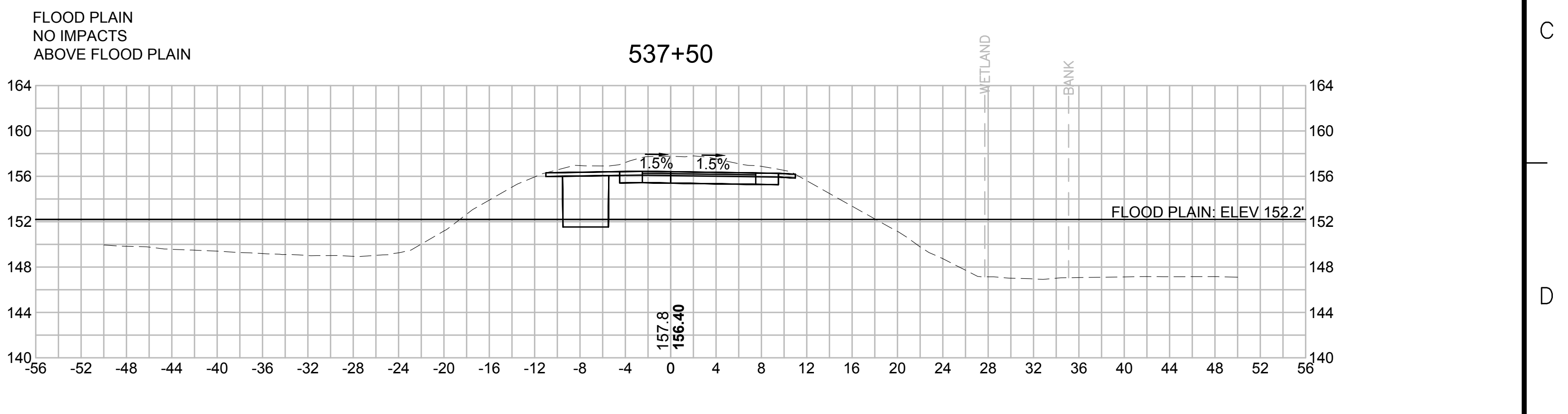
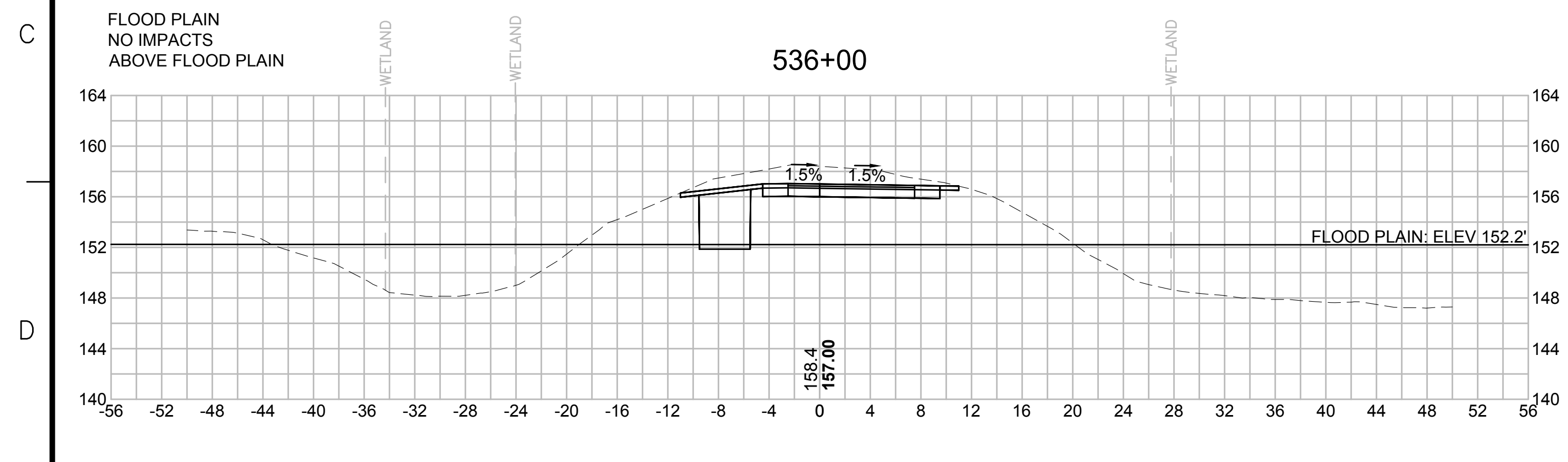
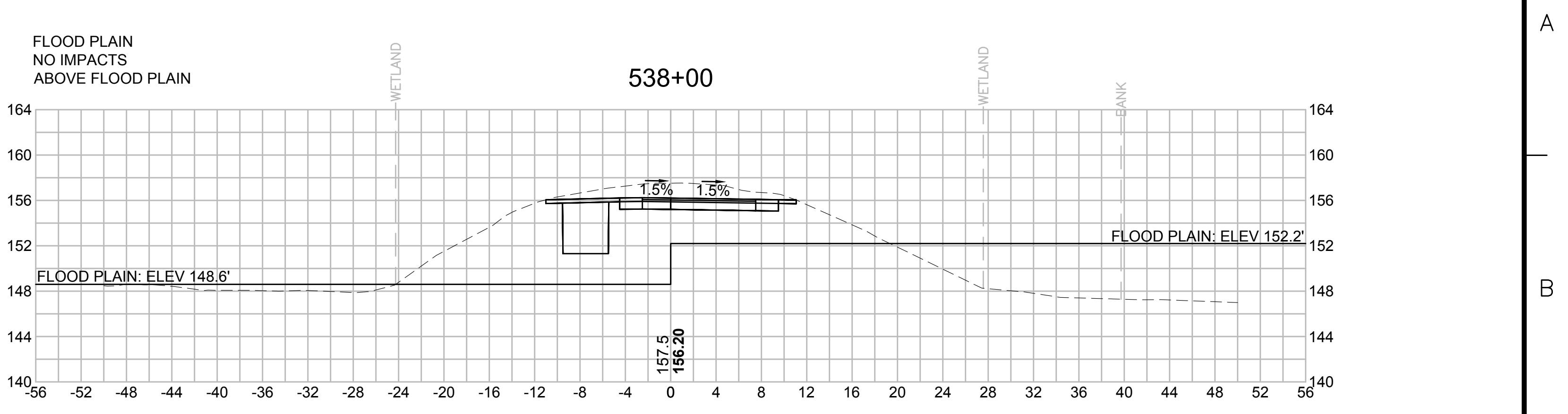
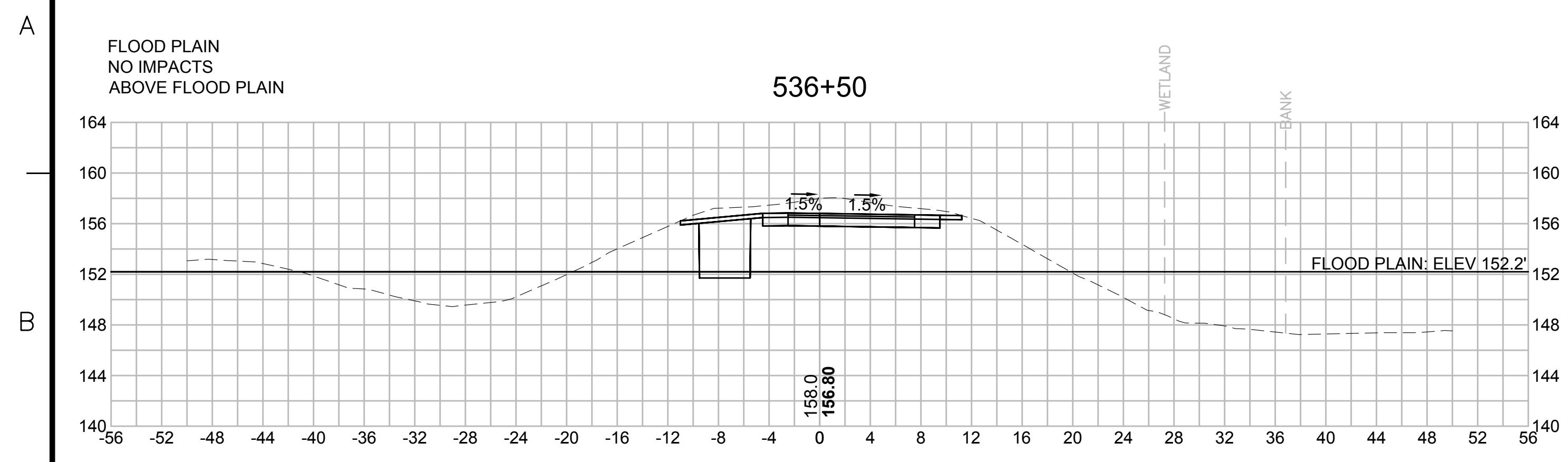


BLSF CROSSING STA 535 TO STA 542 - FEMA ZONE AE - DUDLEY BROOK
 FEMA ELEVATION: UPSTREAM PORTION (152.2) AND DOWNSTREAM PORTION (148.6)
 NO IMPACTS



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|---------------|-----------------|
| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 297 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

1 2 3 4 5 6 7 8 9 10 11



| N O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |

EVERSOURCE

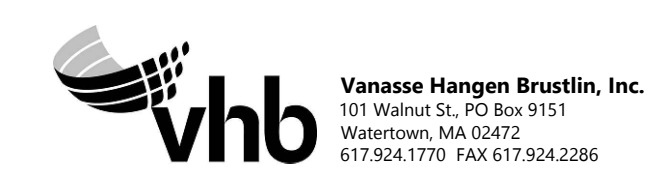
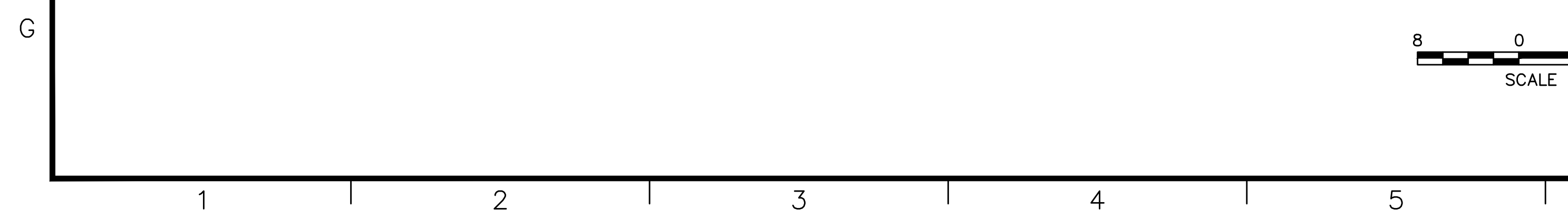
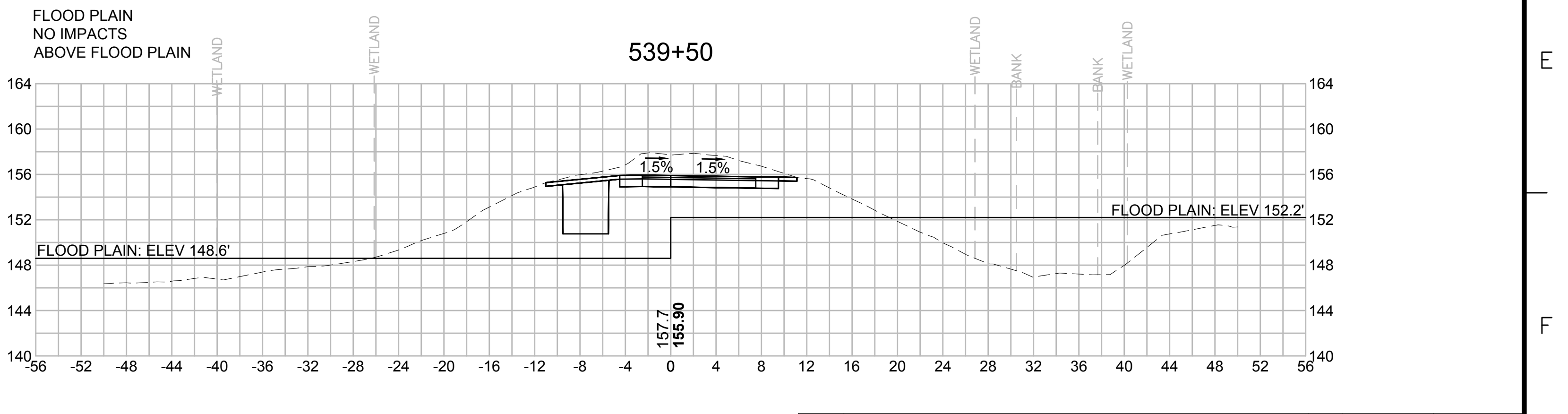
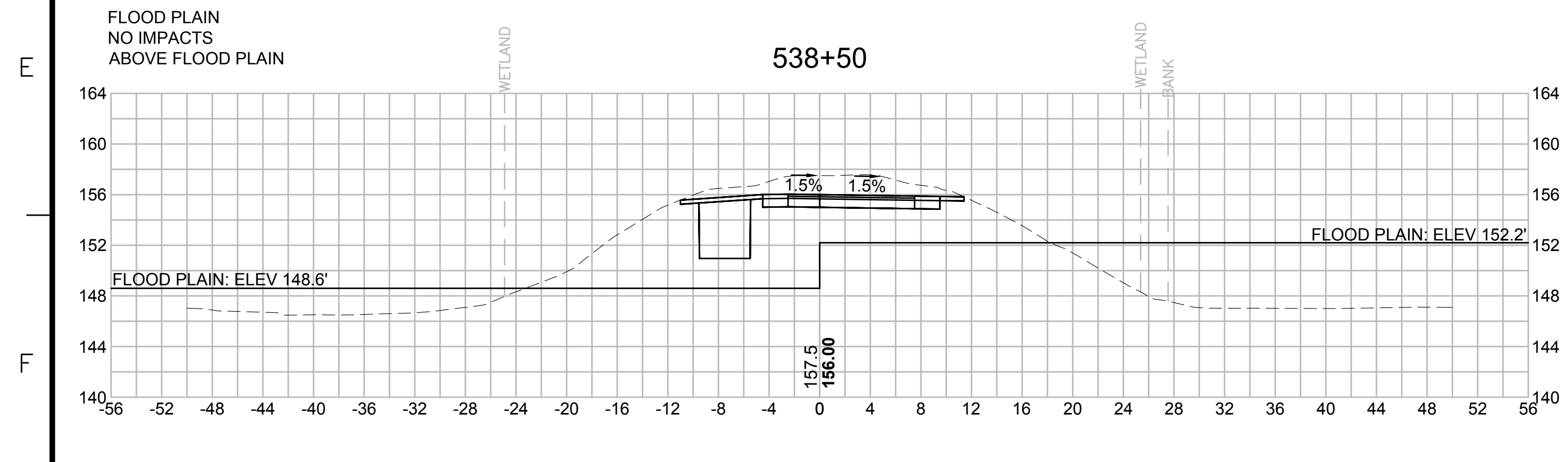
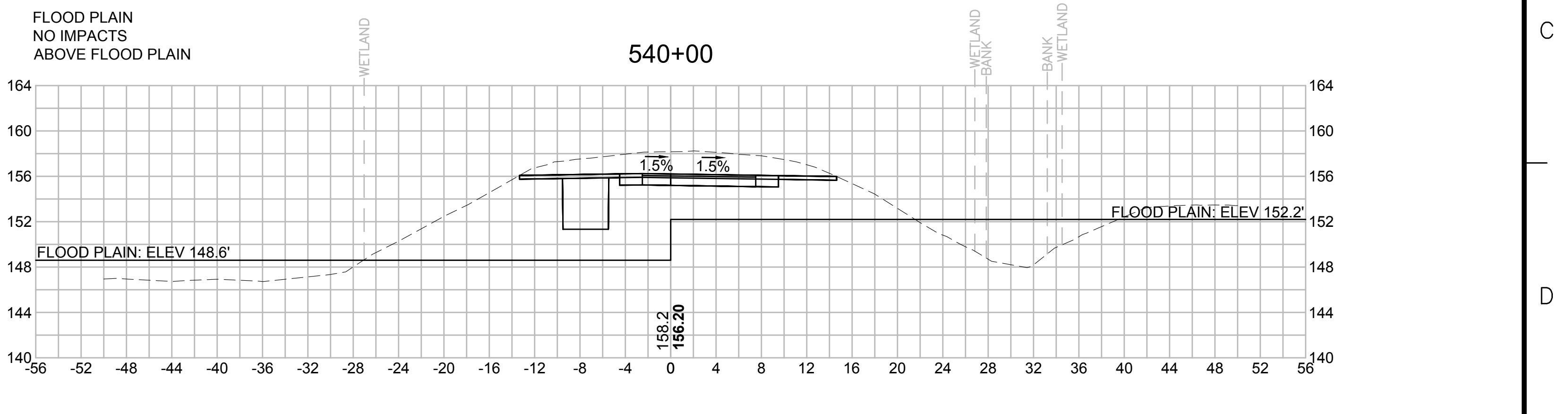
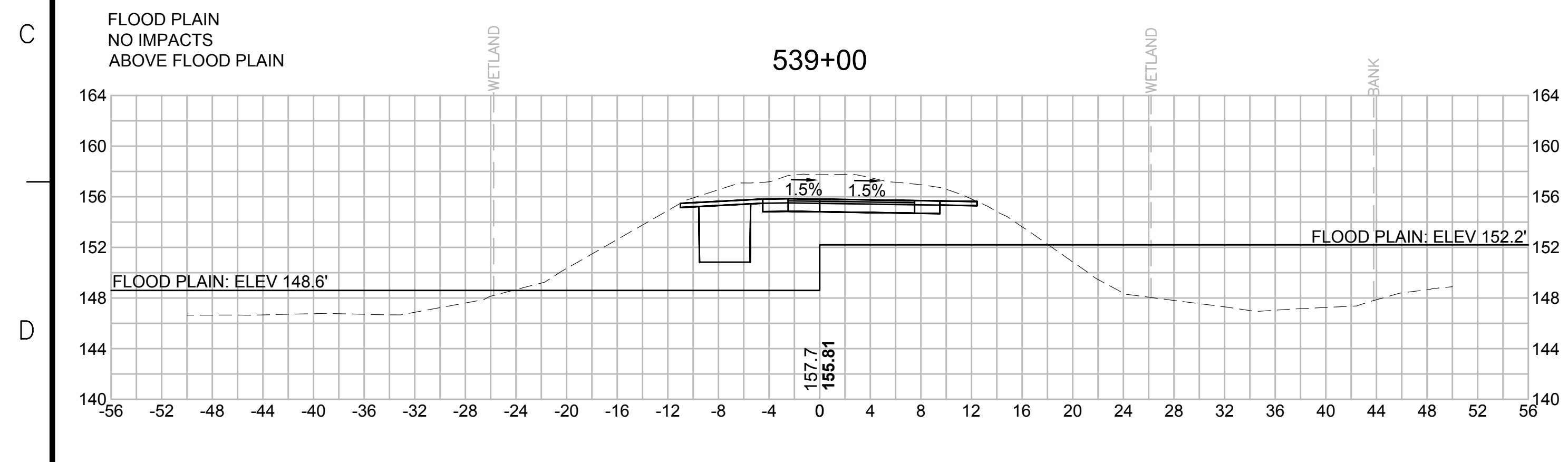
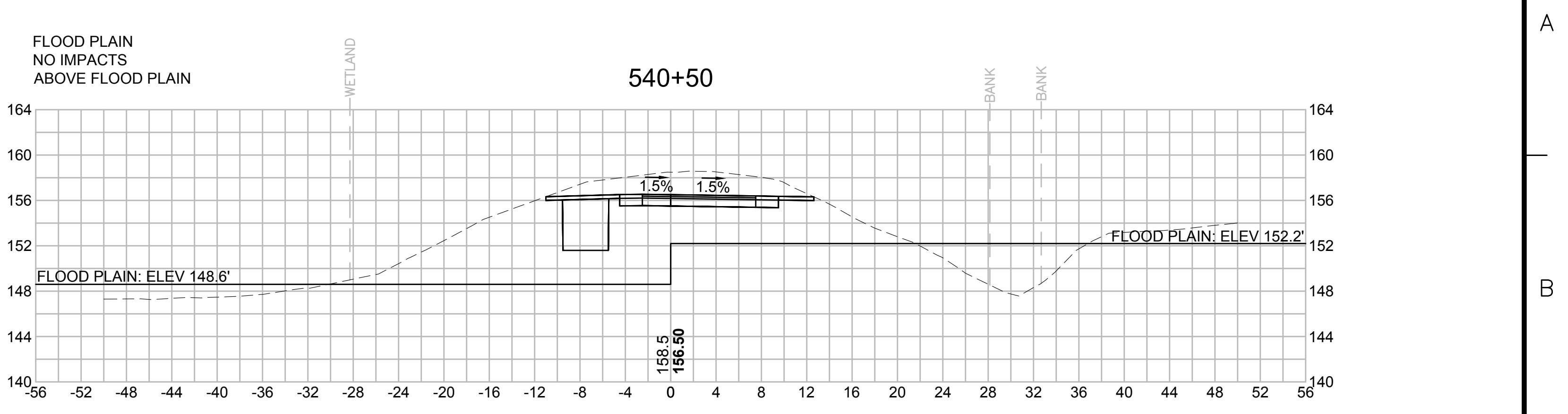
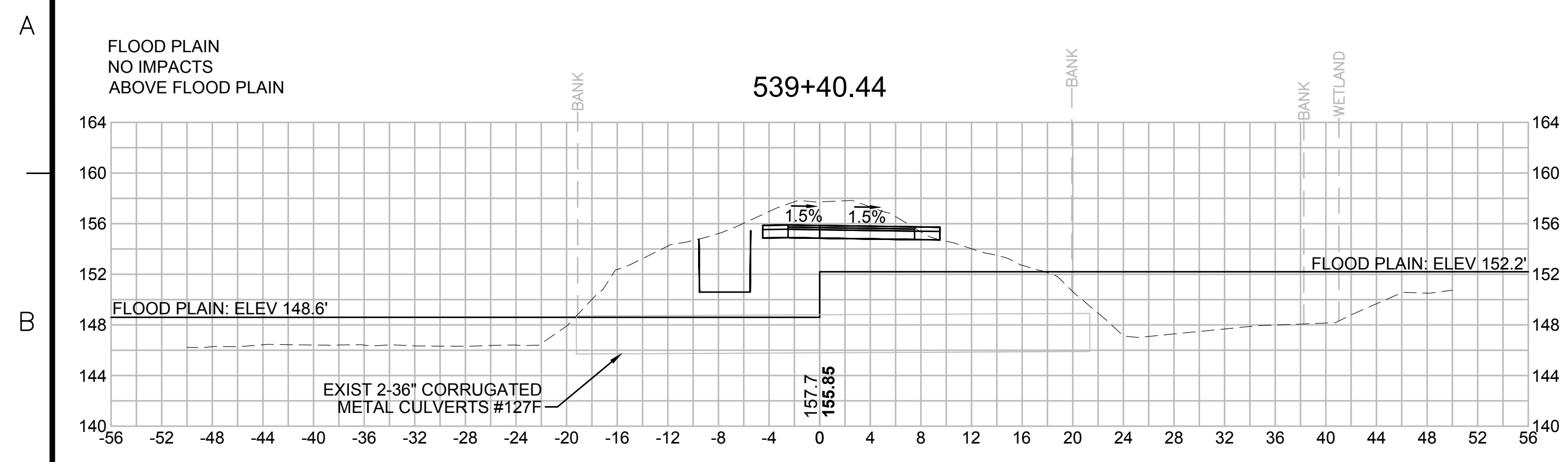
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CROSS SECTIONS

PLAN 298 OF 348

| | | | | | | |
|------------------------------|------------------|-------------|---------------|-----------------|-------------|------|
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. | REV. |
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |

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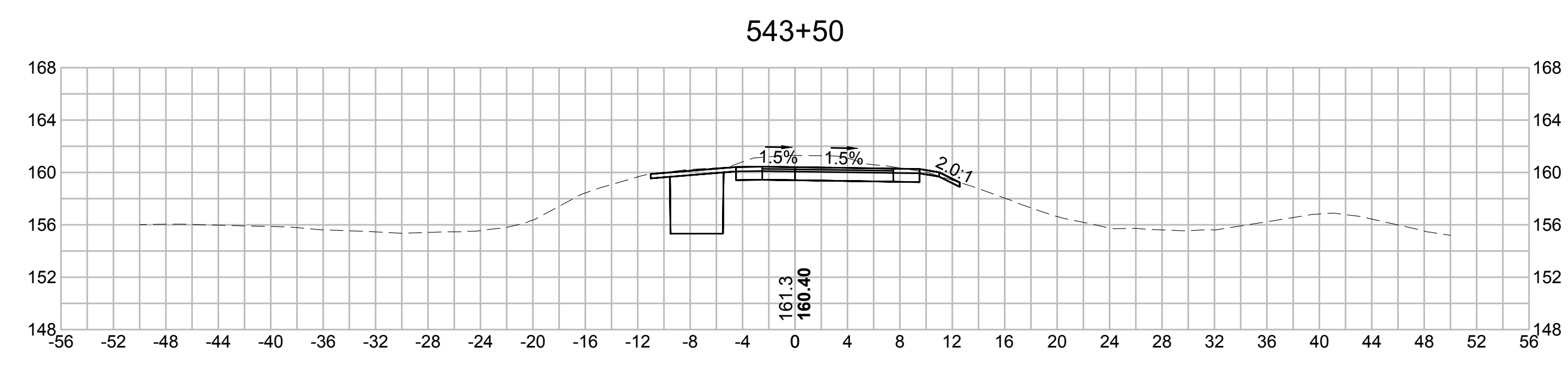
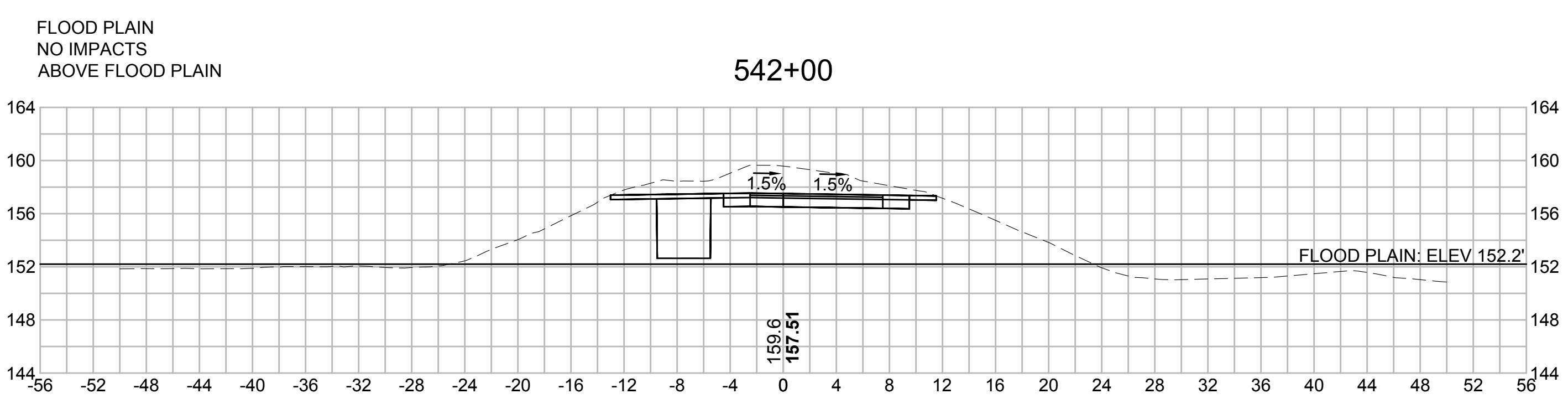
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CROSS SECTIONS
PLAN 299 OF 348

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|------------------------------|------------------|-------------|---------------|-----------------|---------------------|
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. REV. |
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1 2 3 4 5 6 7 8 9 10 11

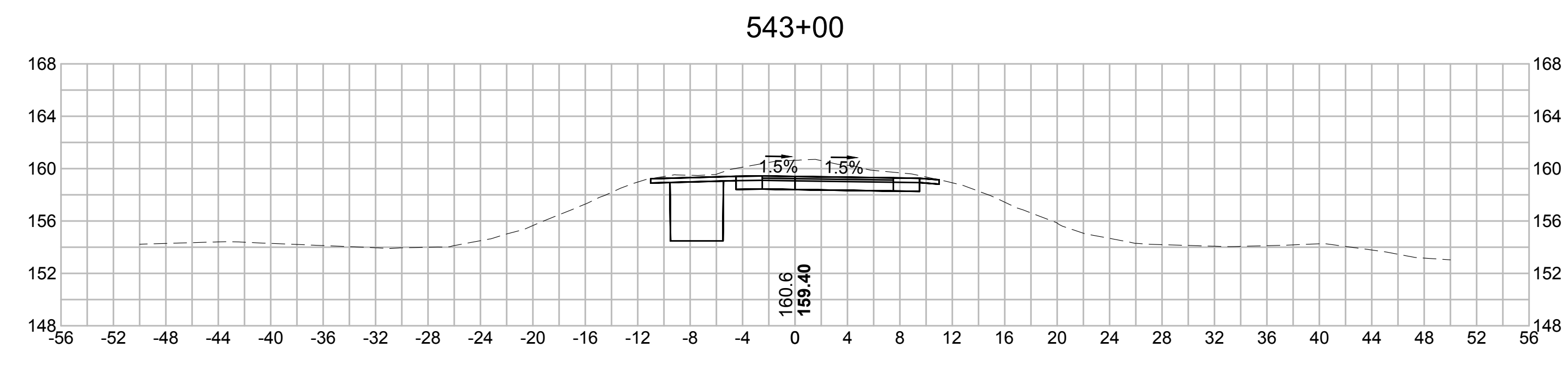
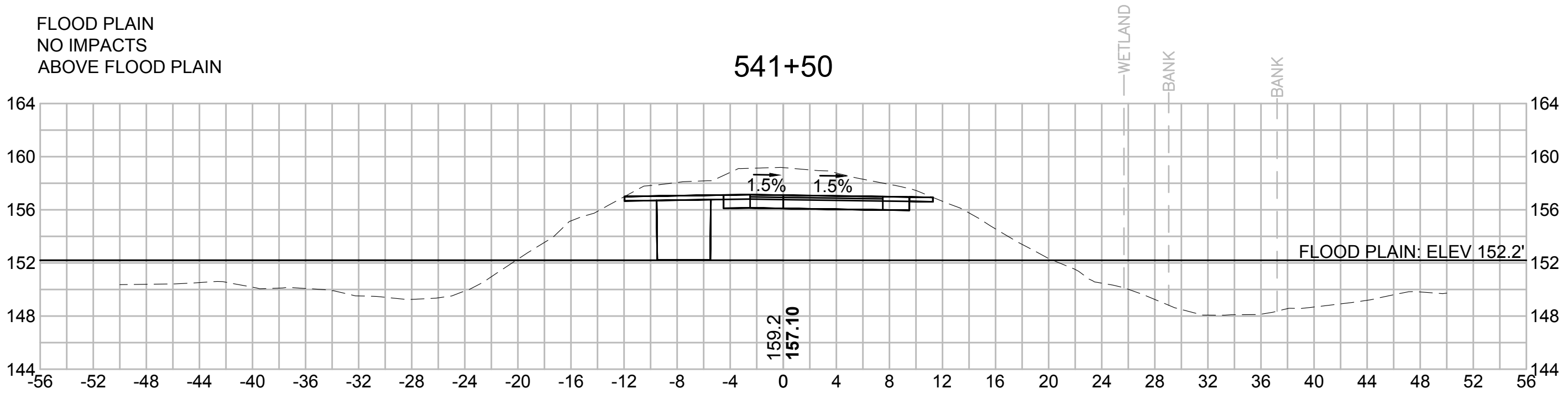
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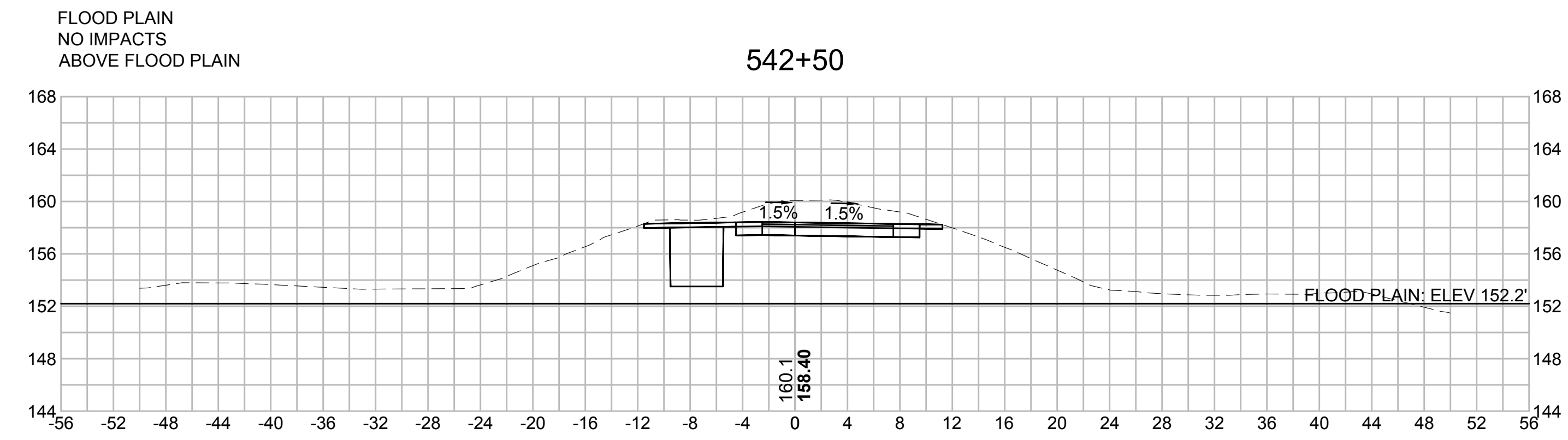
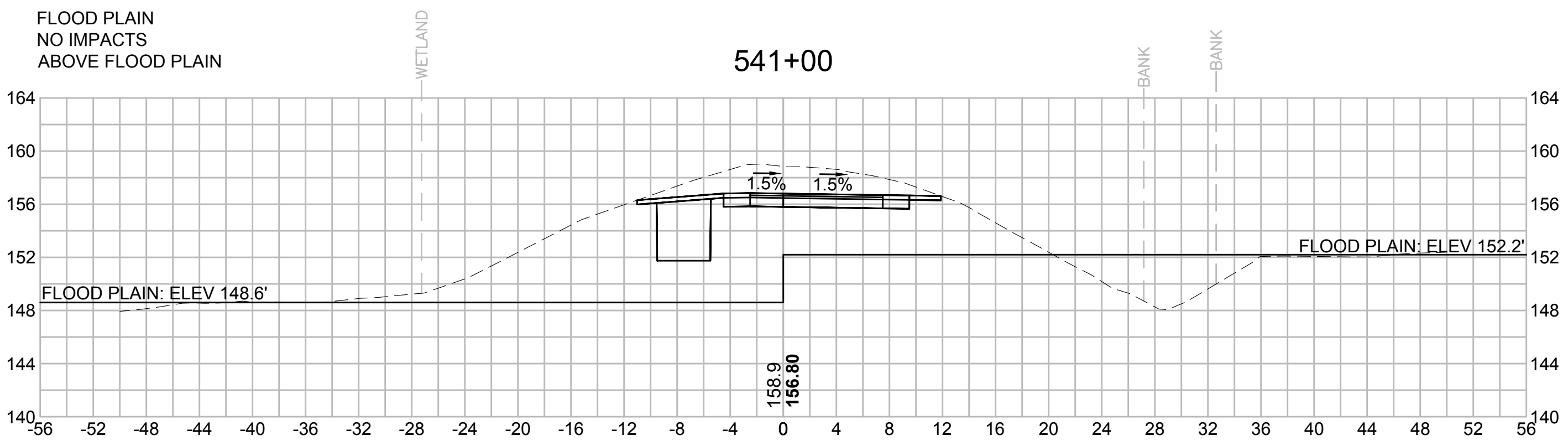
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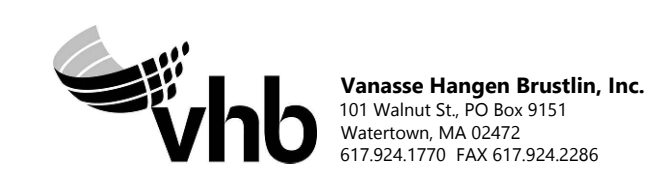


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| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|---------------|-----------------|
| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 300 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

1 2 3 4 5 6 7 8 9 10 11

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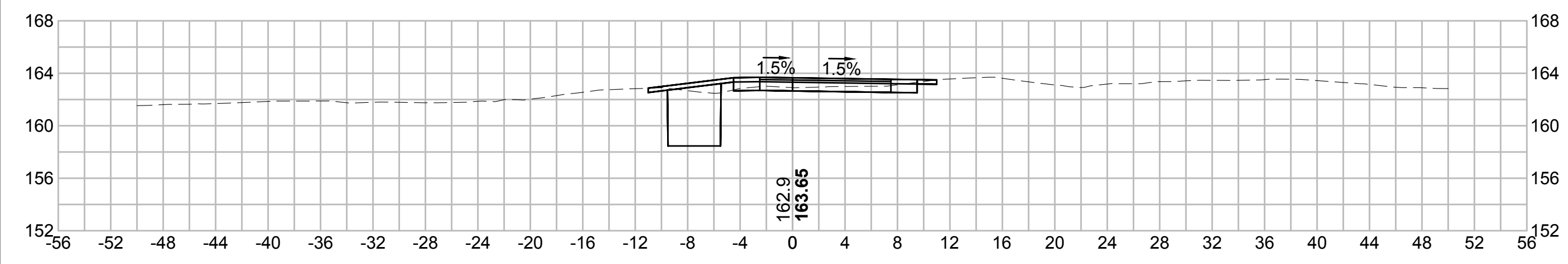
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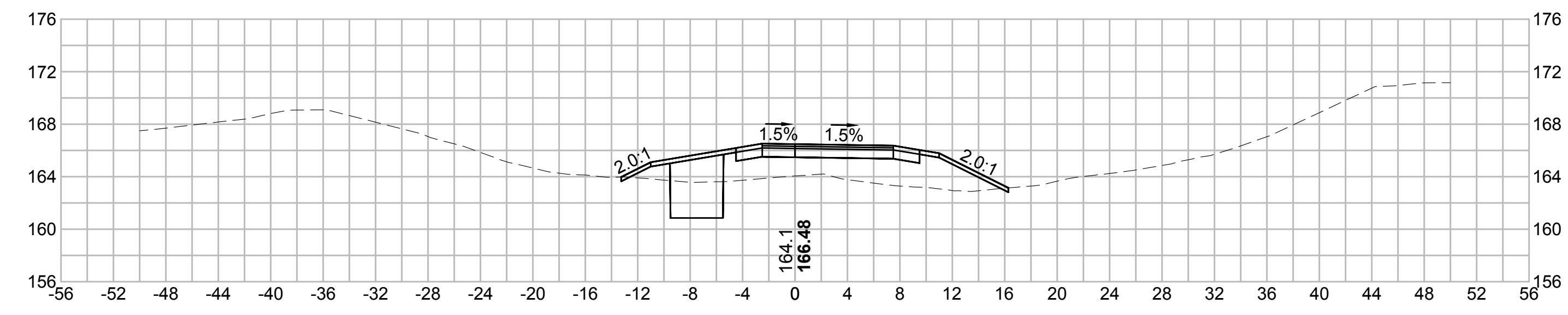
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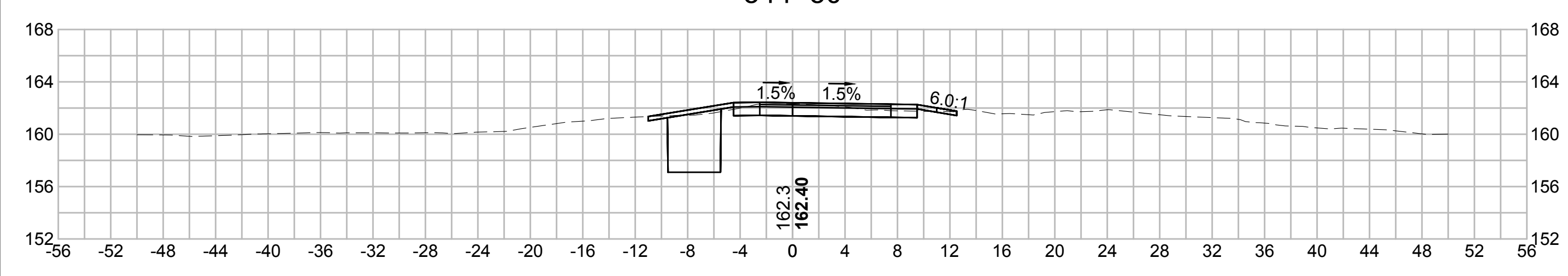
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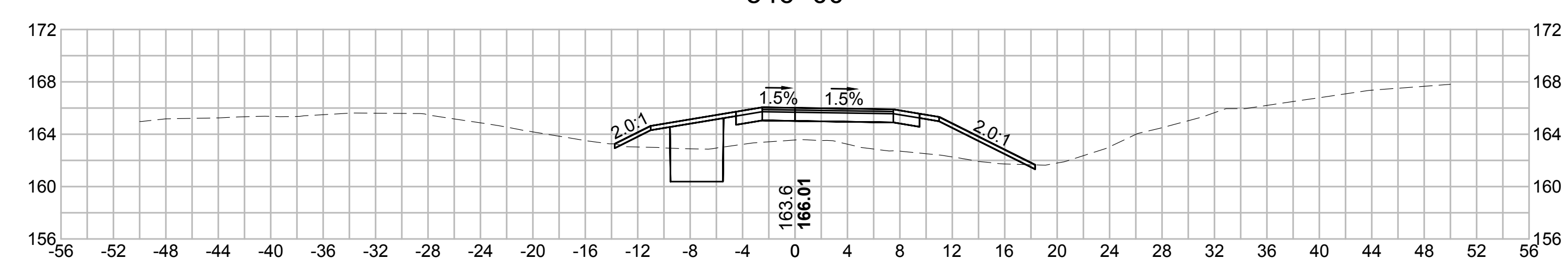
546+50



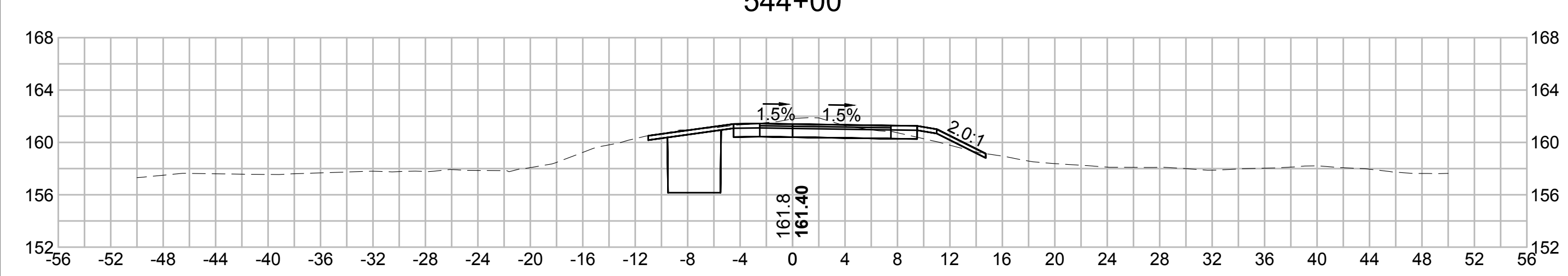
544+50



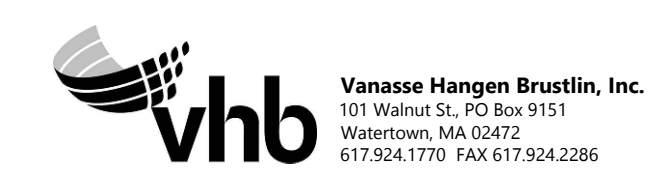
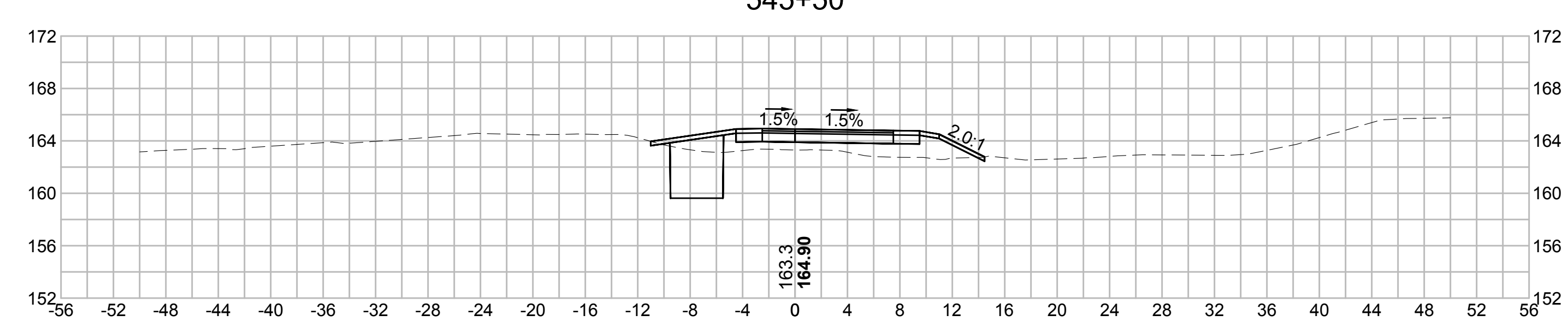
546+00



544+00



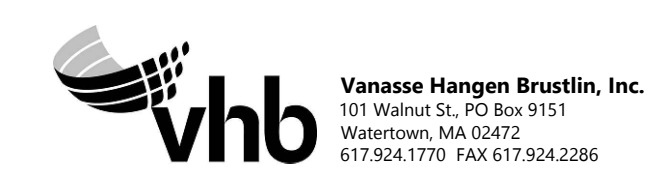
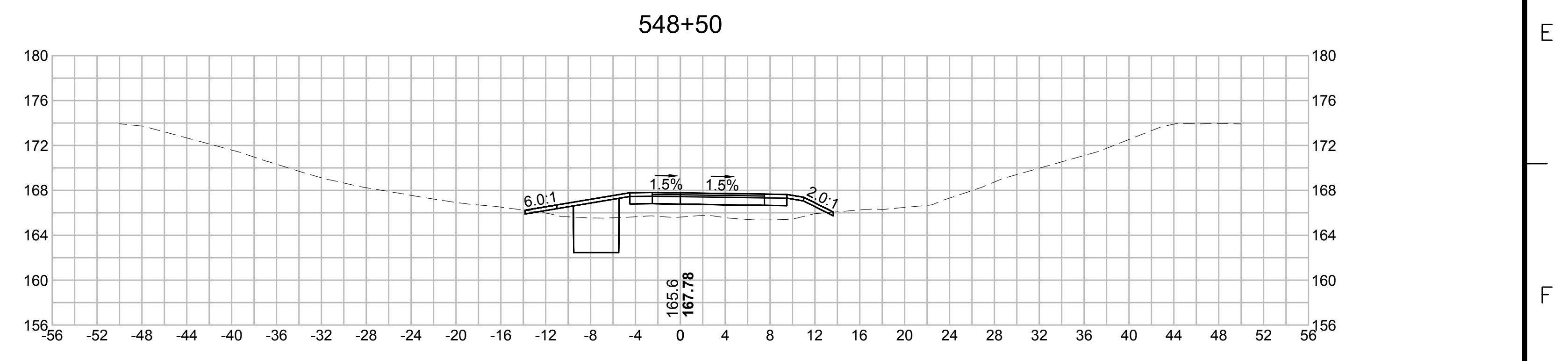
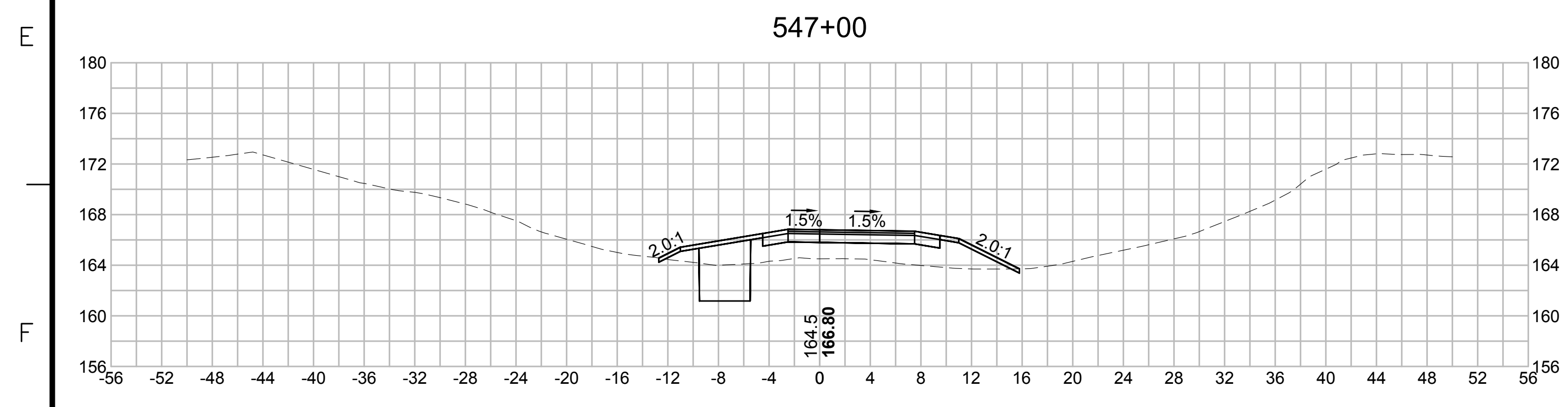
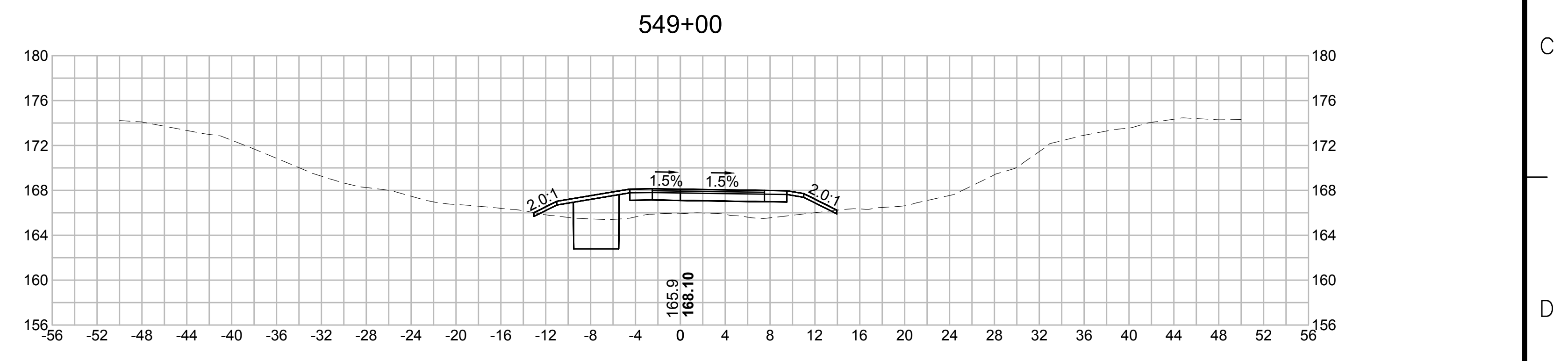
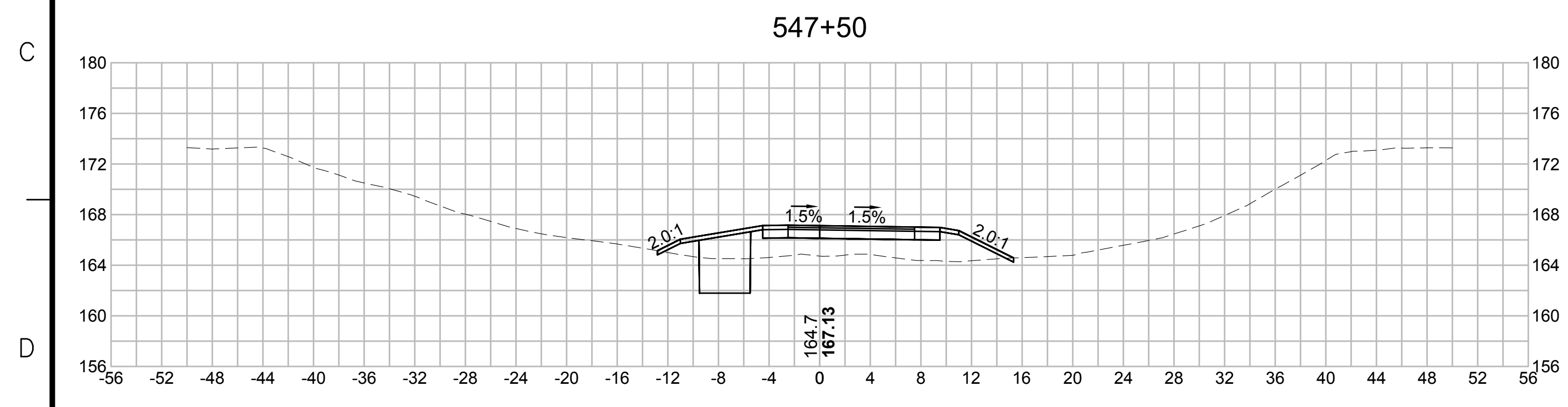
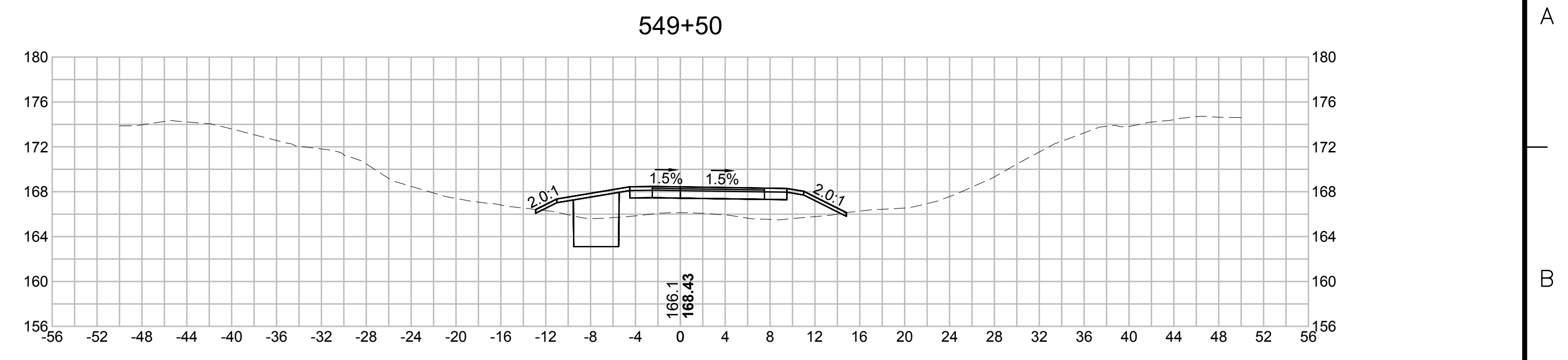
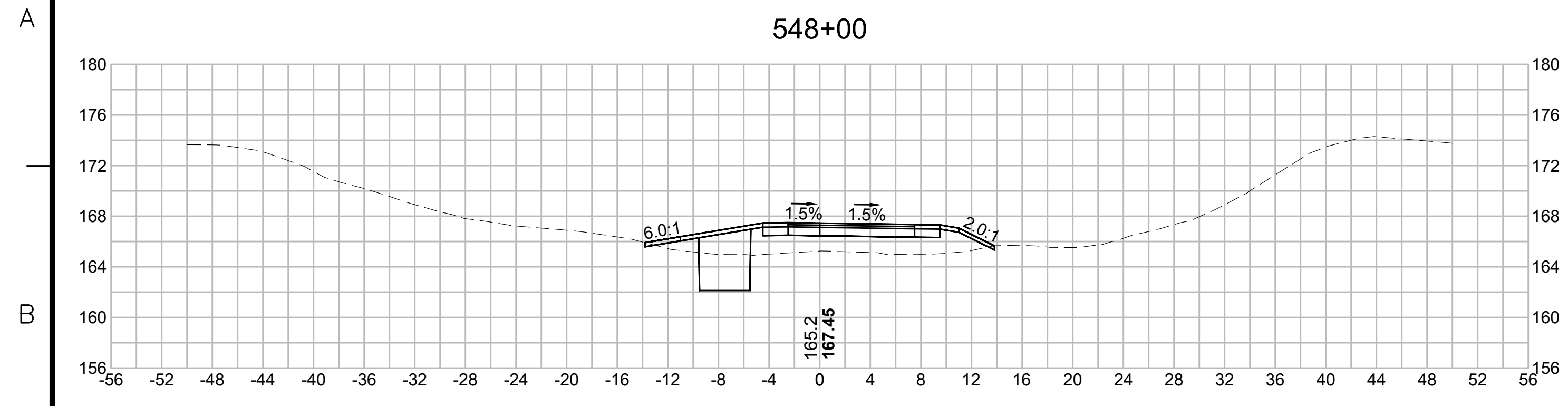
545+50



| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|----------------|-----------------|
| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 301OF348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | C'H'K'D. SK | A P P R. MES |
| DRAWING NO. | REV. | | | |

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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 302 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

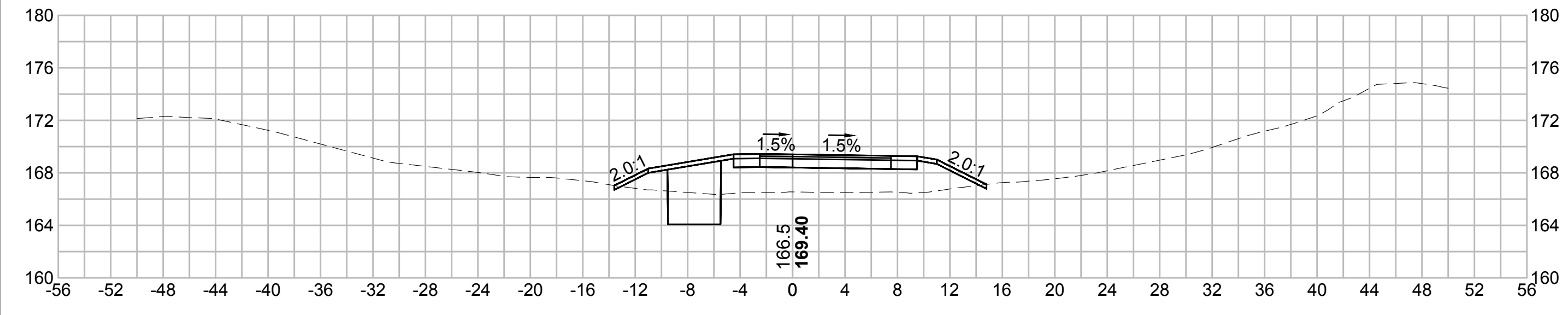
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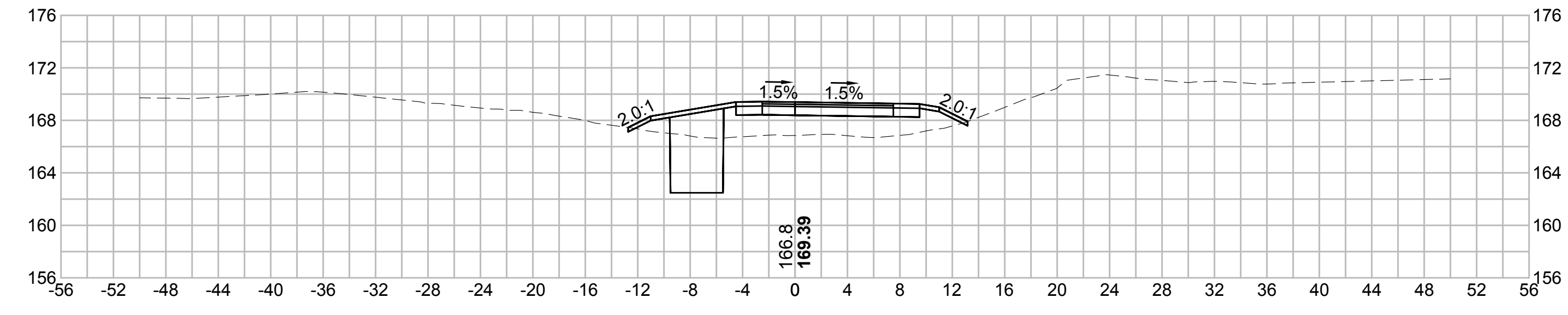
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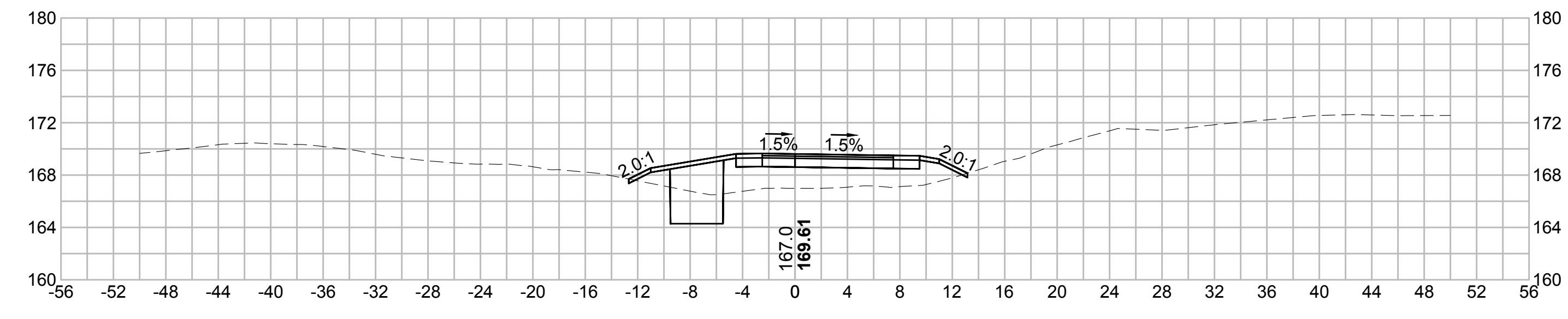
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552+00



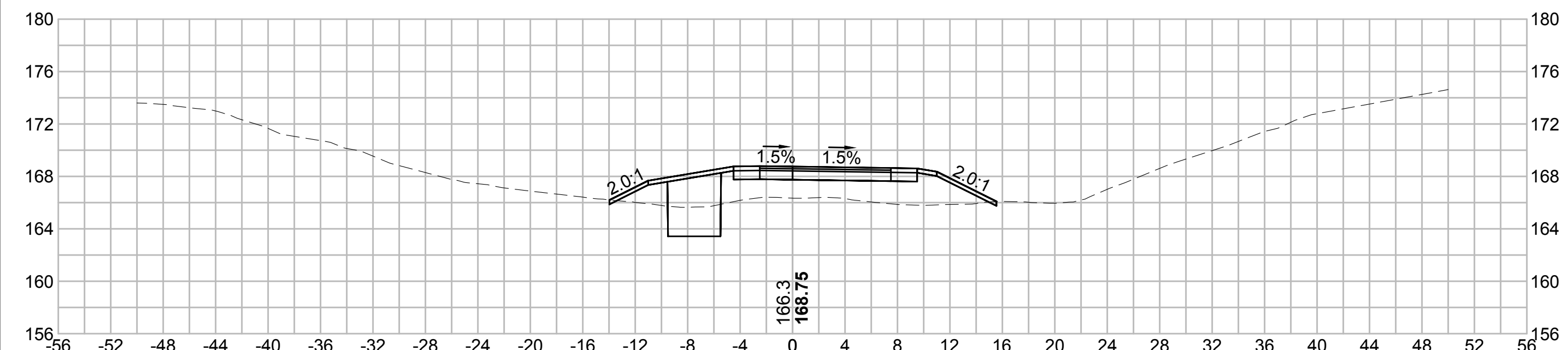
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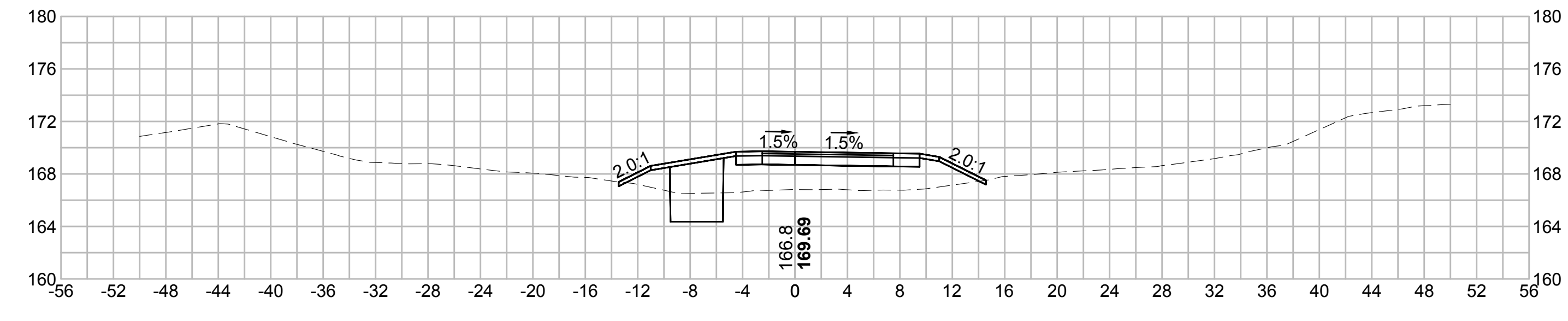
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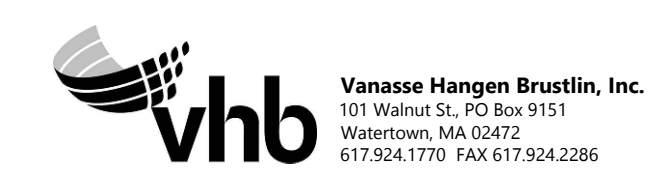
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| N O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CROSS SECTIONS

PLAN 303 OF 348

| | | | | | | |
|------------------------------|------------------|-------------|----------------|-----------------|-------------|------|
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | C H'K D. SK | A P P R. MES | DRAWING NO. | REV. |
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1 2 3 4 5 6 7 8 9 10 11

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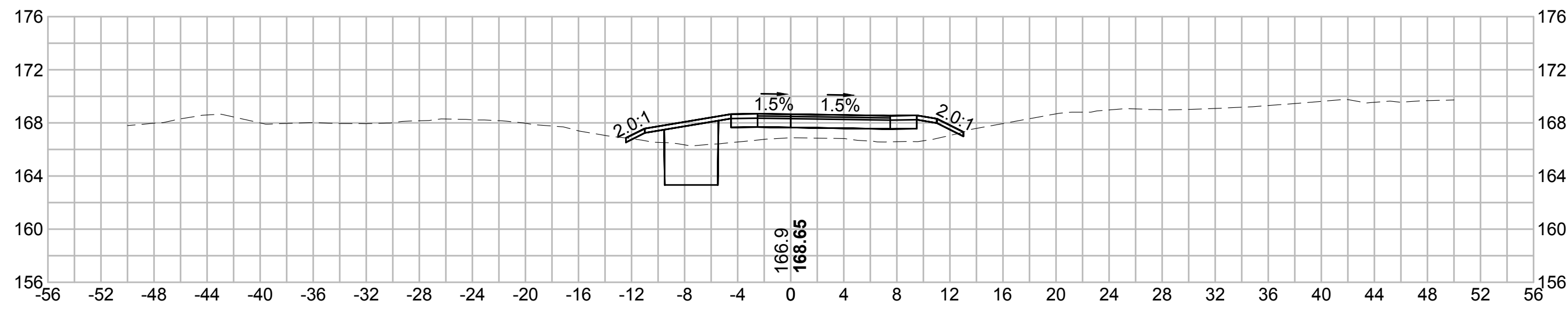
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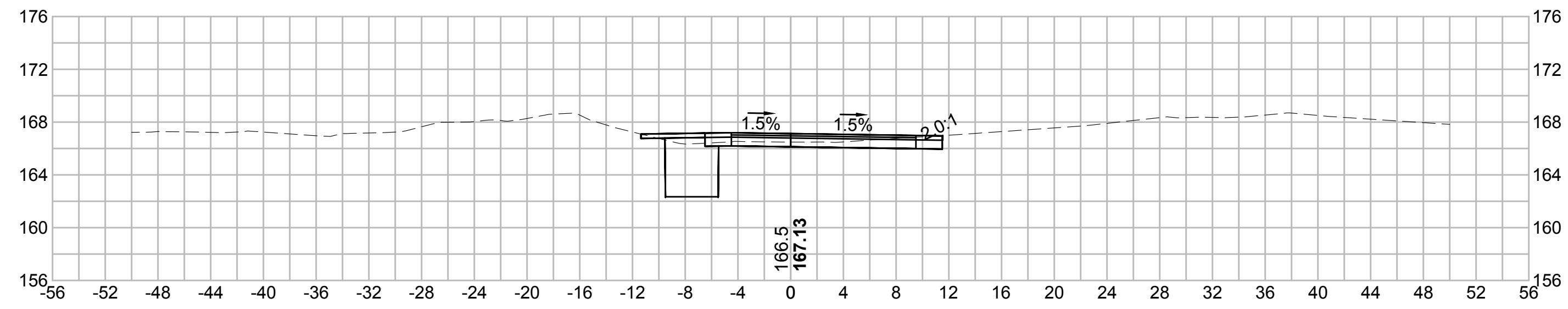
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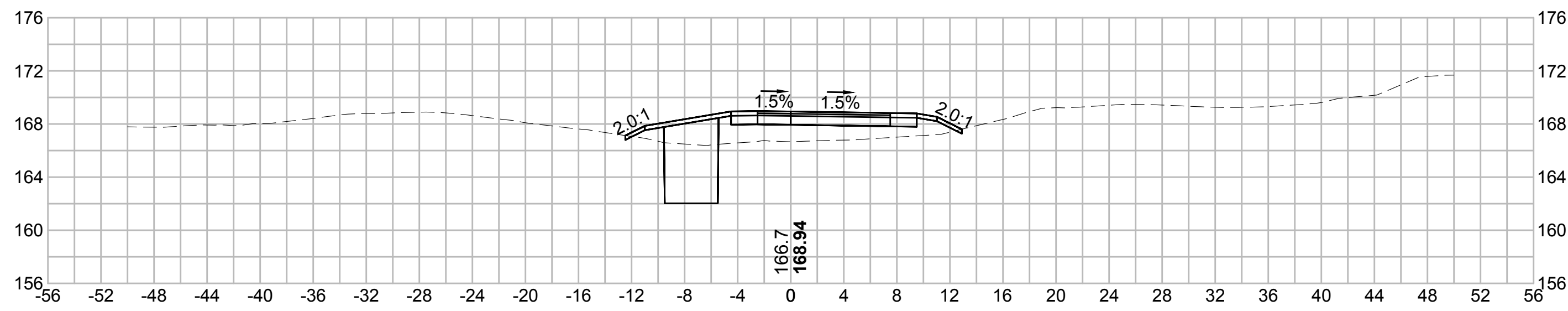
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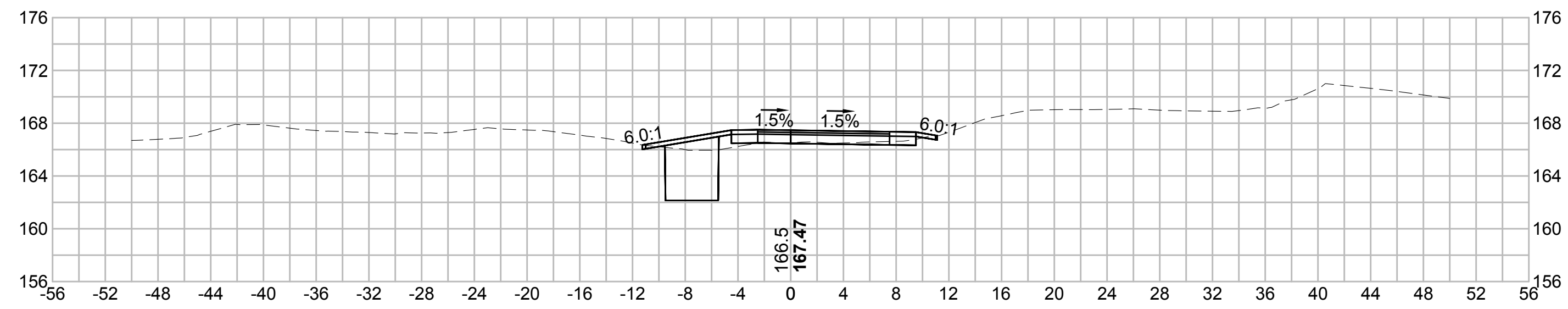
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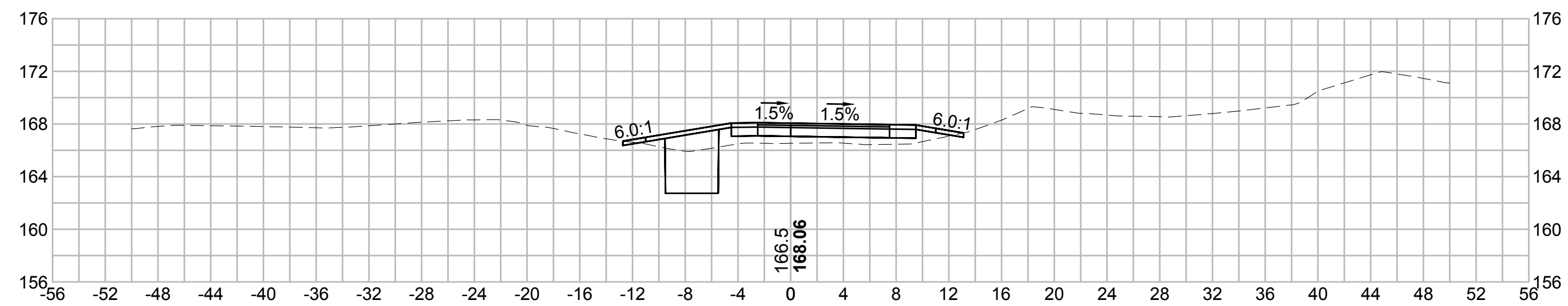
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
|---|------------------|-------------|---------------|-----------------|
| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 304 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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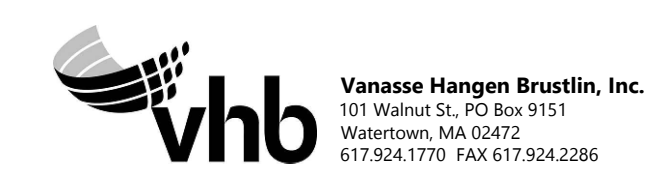
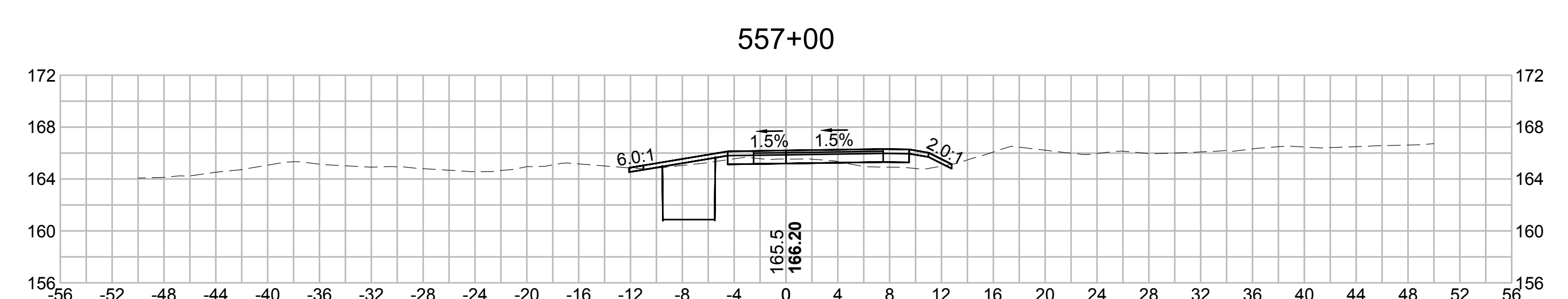
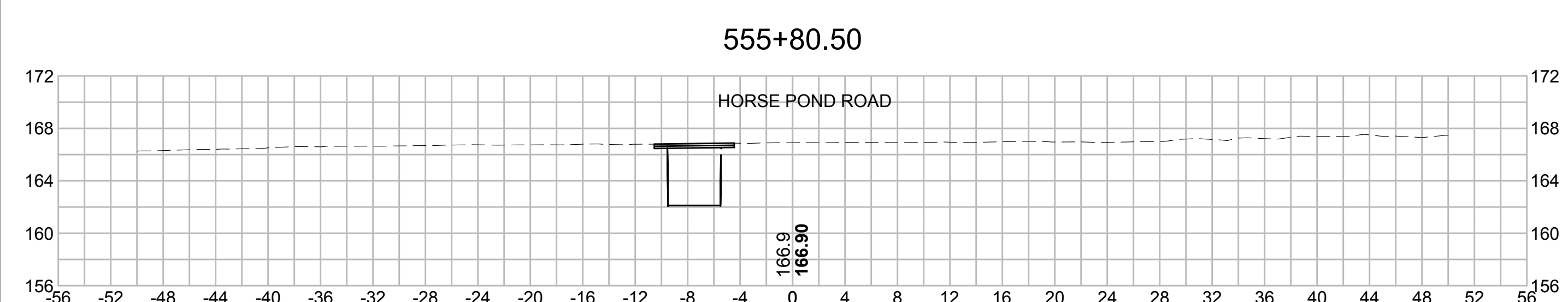
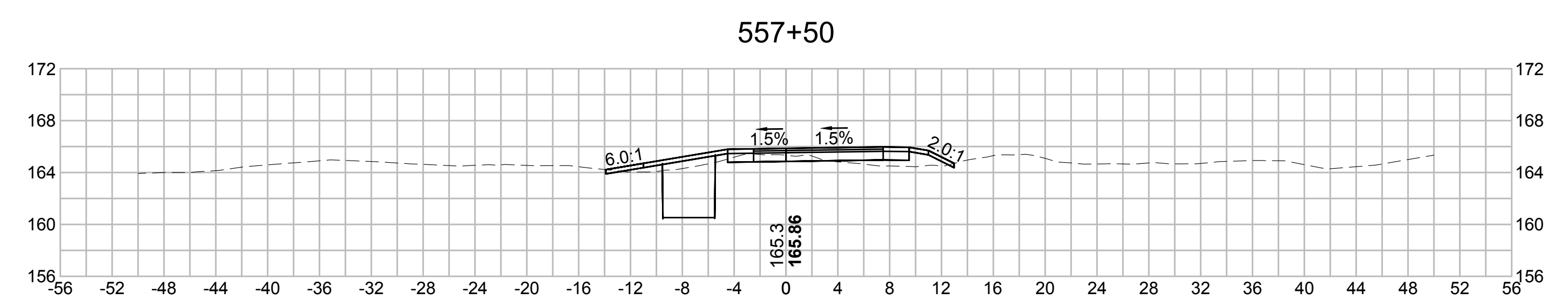
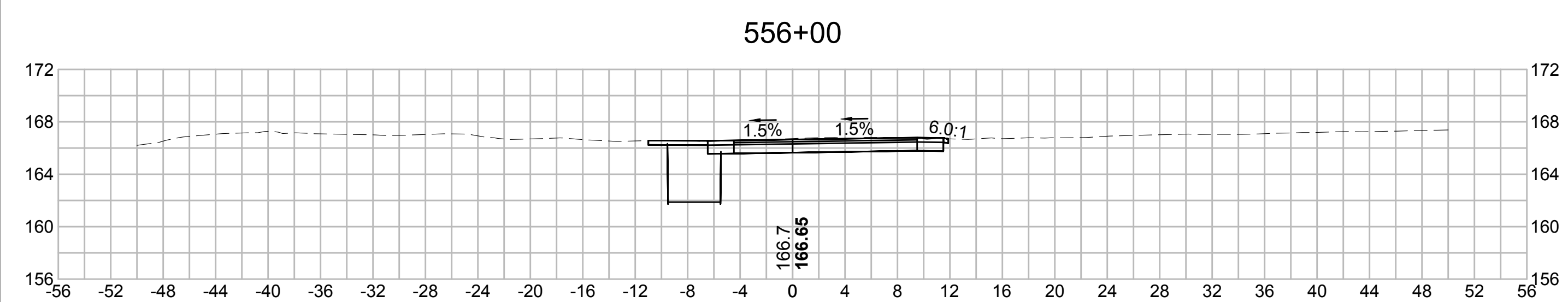
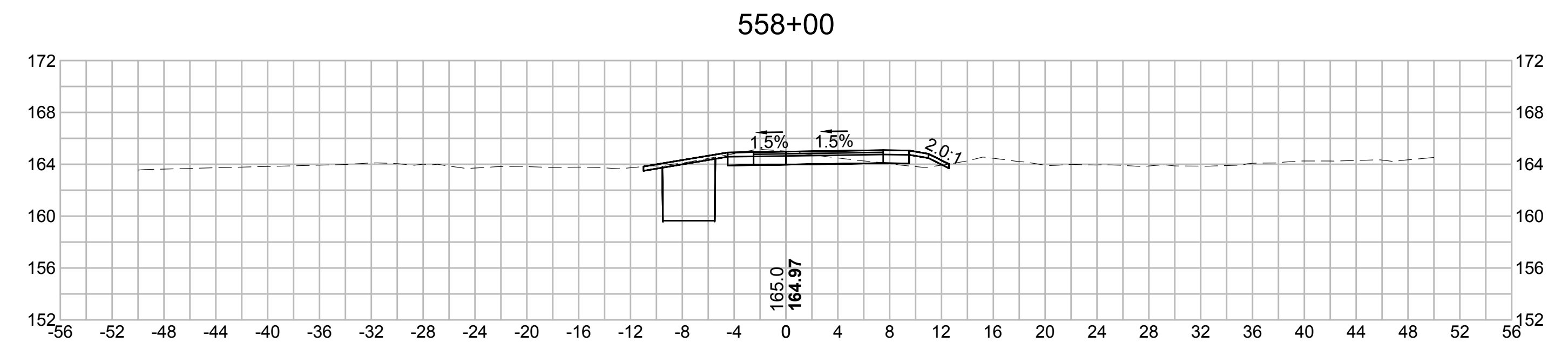
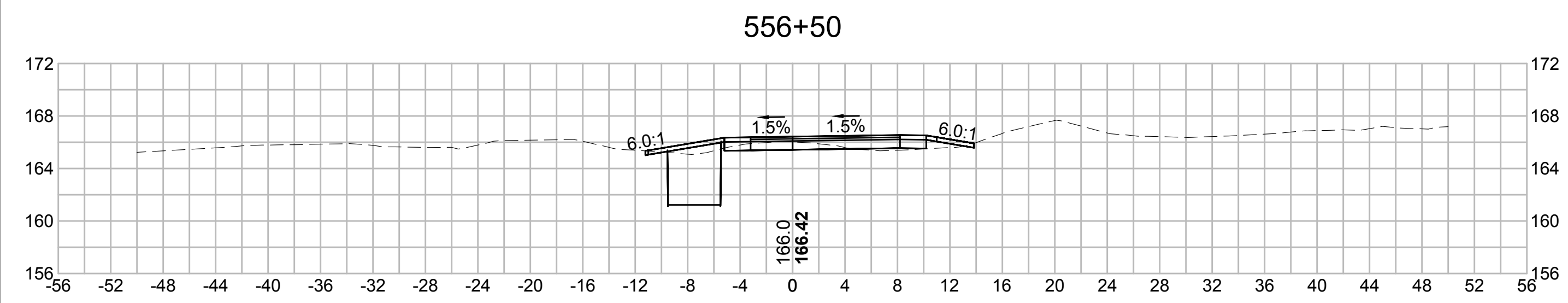
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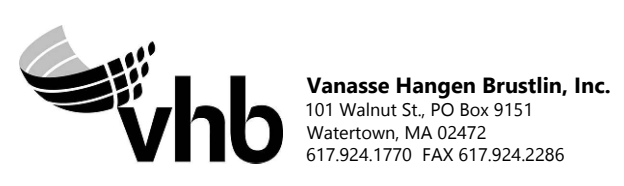
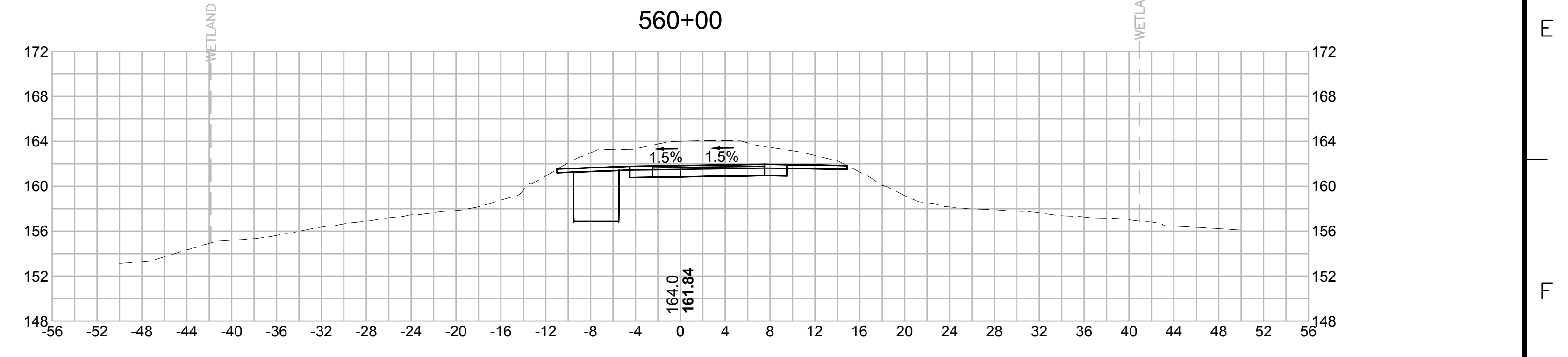
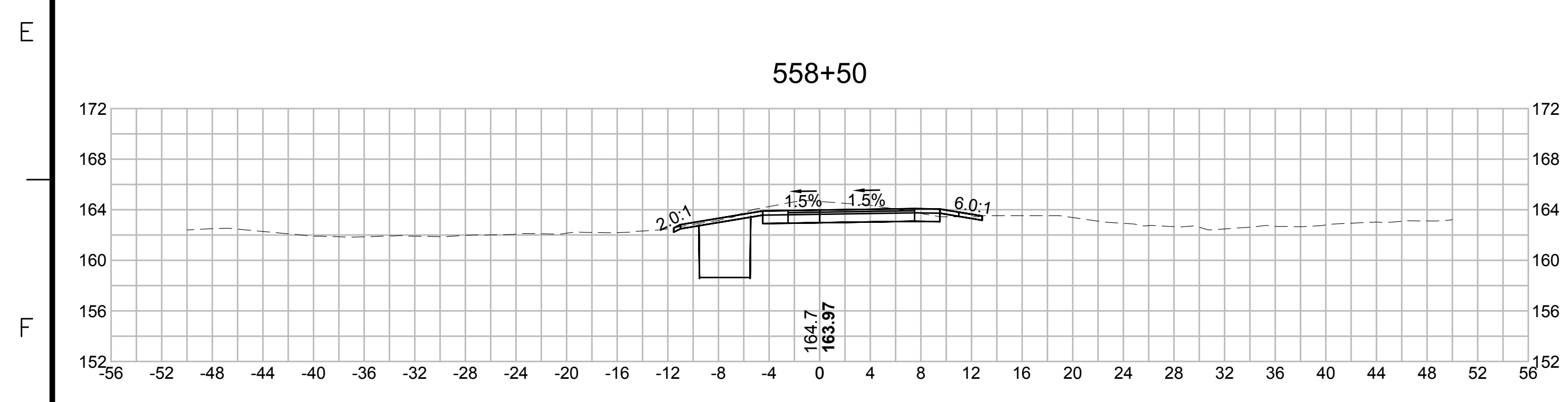
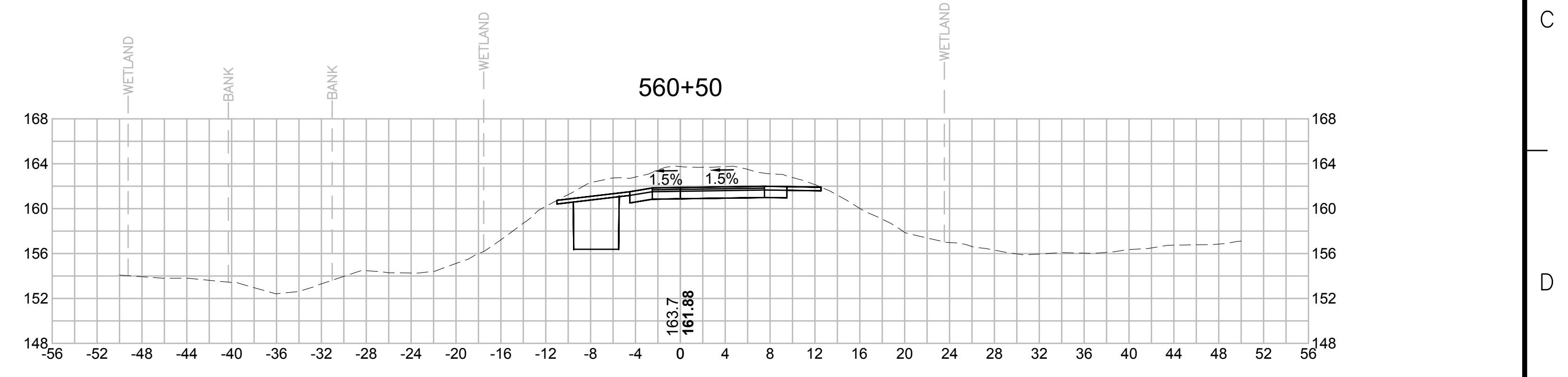
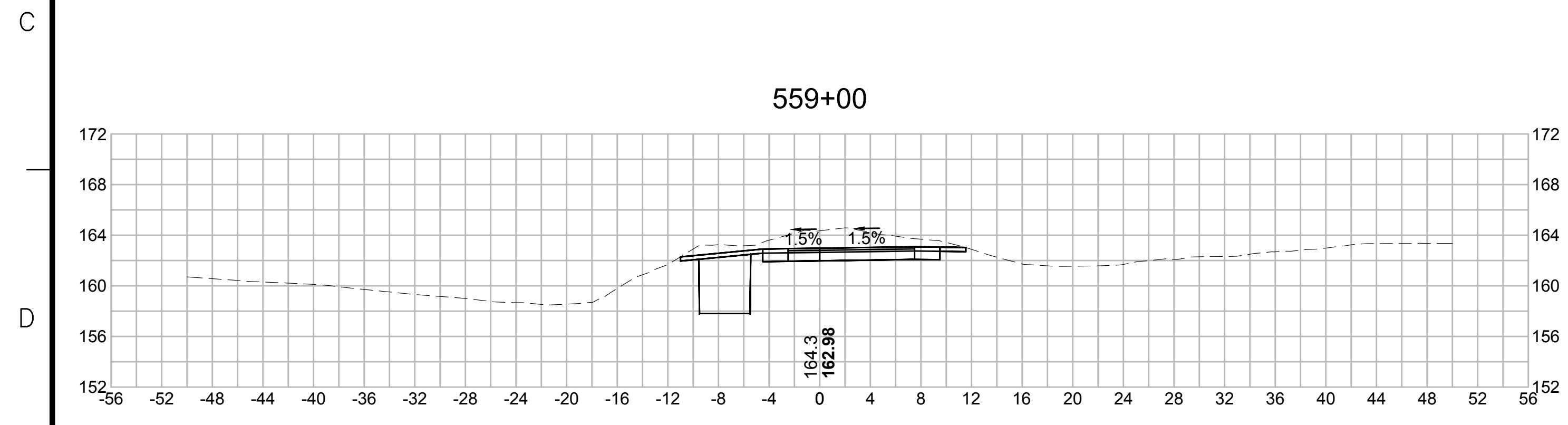
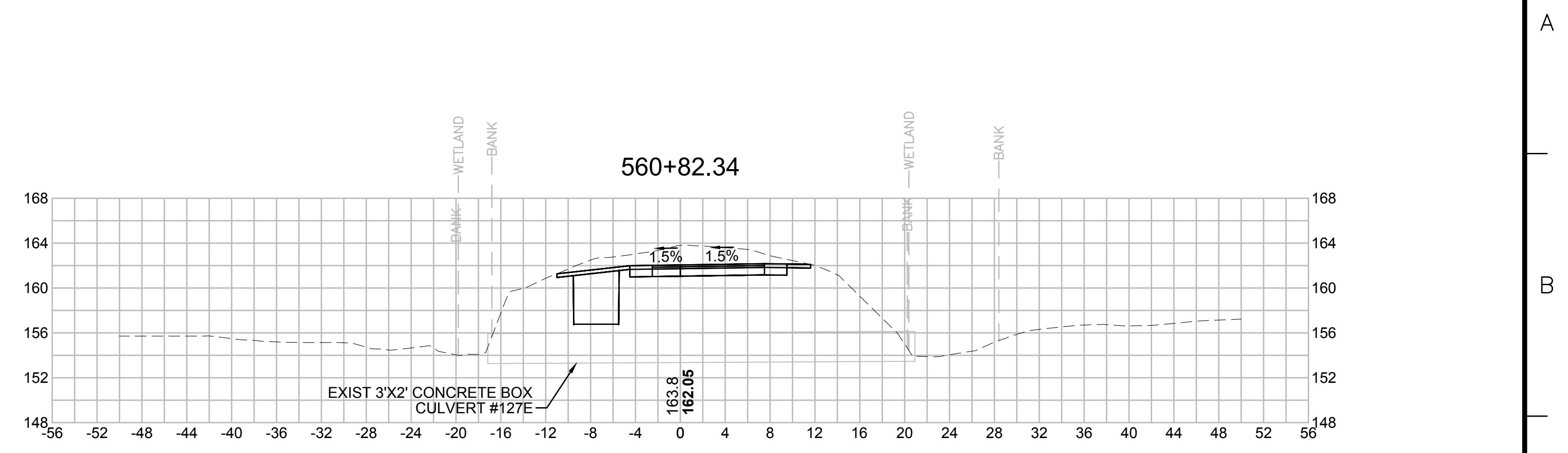
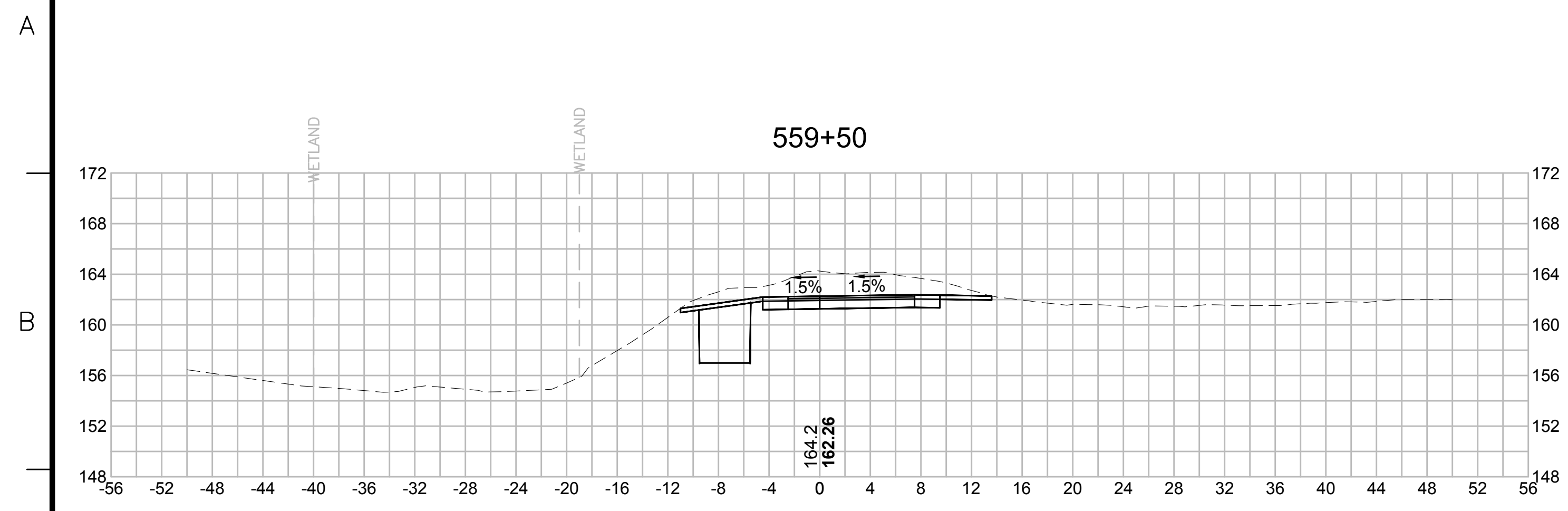
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| NO. | | DESCRIPTION | | BY | DATE | APPR. |
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| | | REVISION | | | | |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | |
| CROSS SECTIONS | | | | | | |
| PLAN 305 OF 348 | | | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. | REV. |
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1 2 3 4 5 6 7 8 9 10 11

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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |

EVERSOURCE

SUBBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUBBURY MASSACHUSETTS
 CROSS SECTIONS

PLAN 306 OF 348

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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. | REV. |
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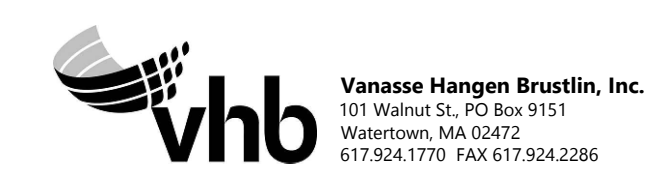
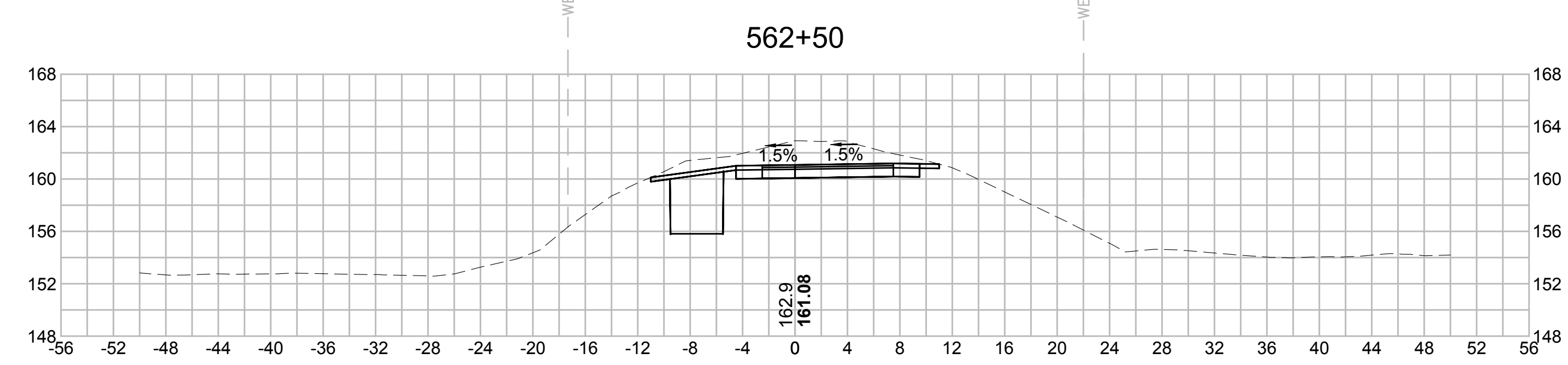
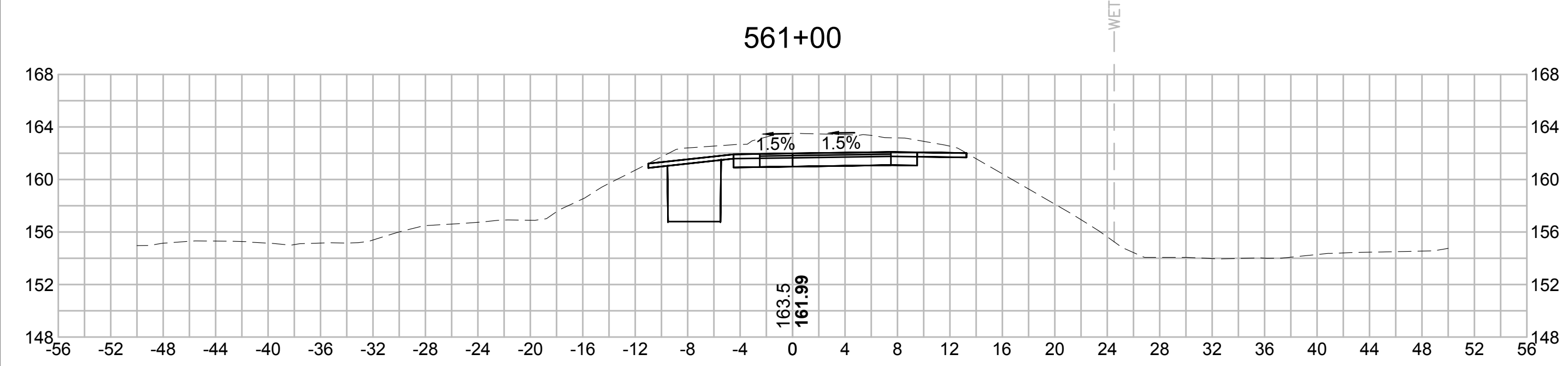
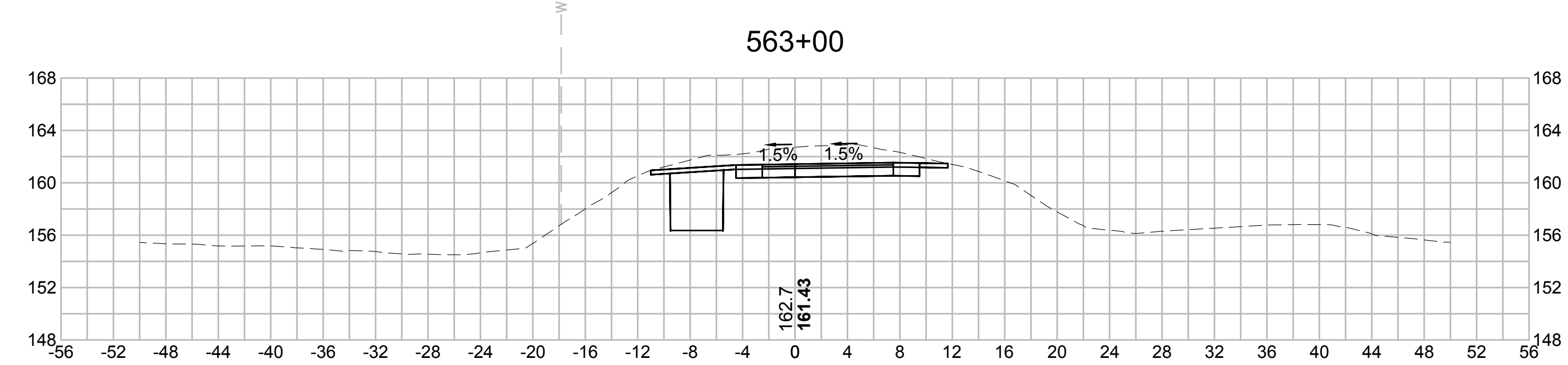
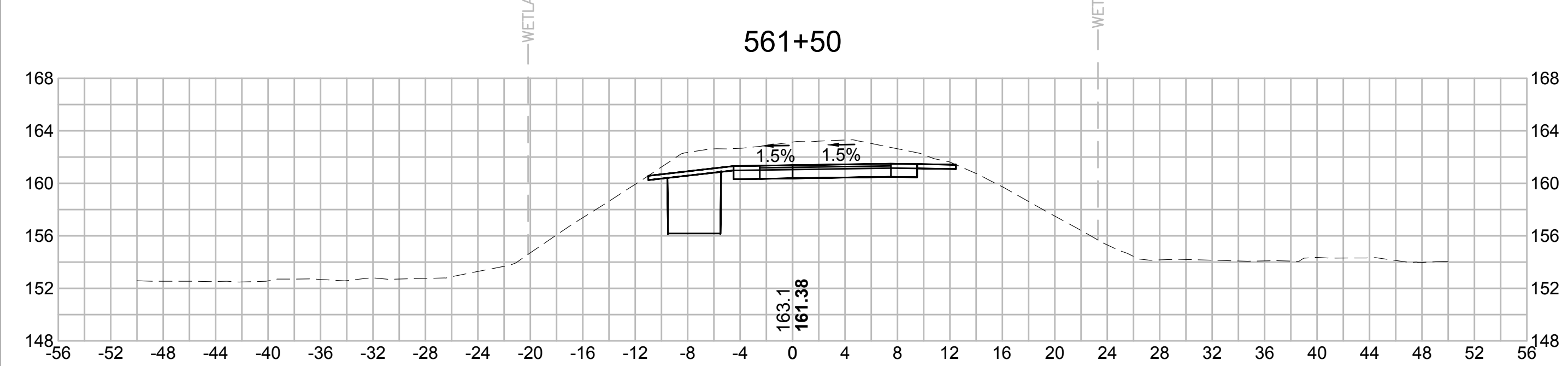
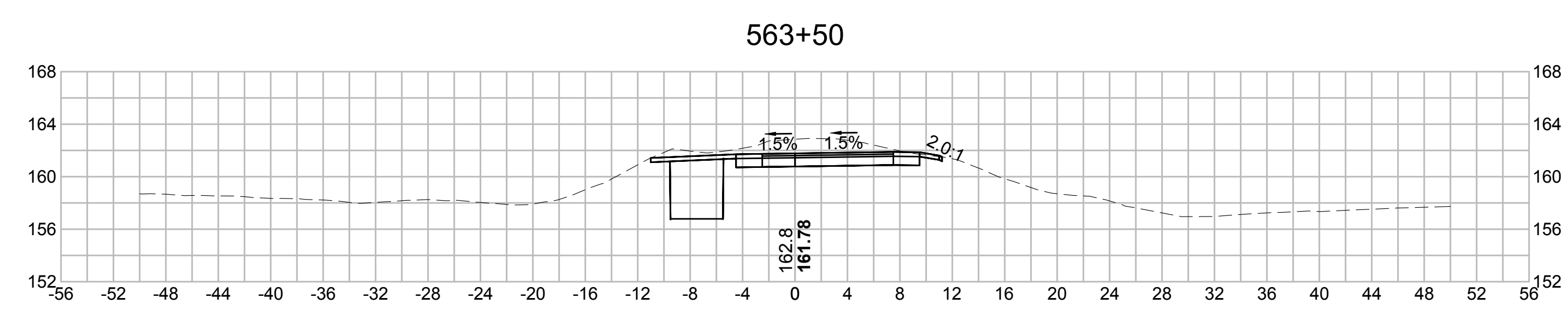
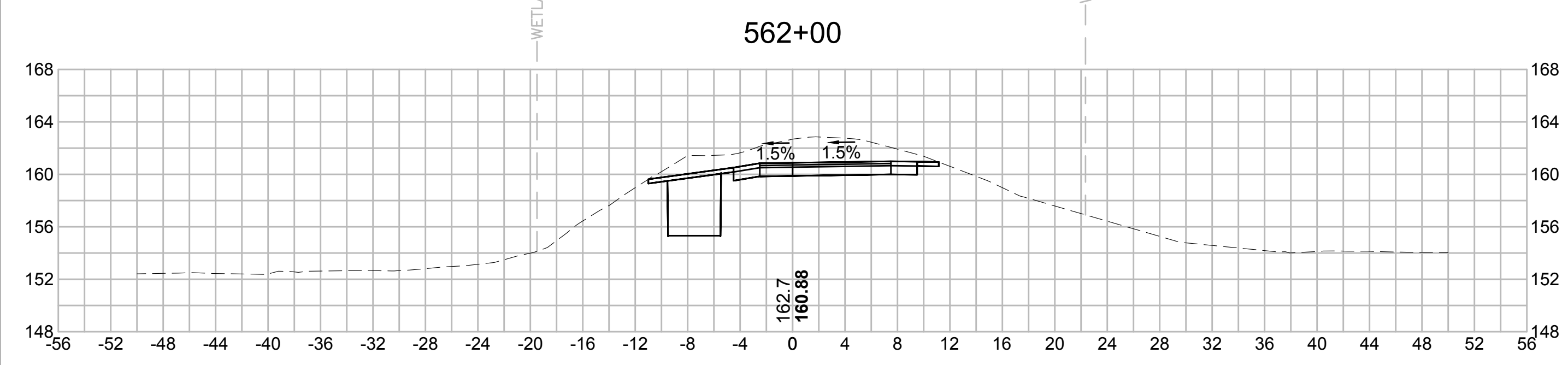
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| N O. | DESCRIPTION | BY | DATE | APPR. |
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS

PLAN 307 OF 348

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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | C H'K D. SK | A P P R. MES | DRAWING NO. | REV. |
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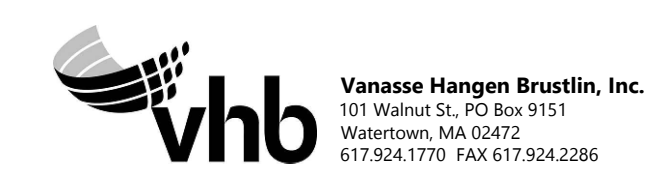
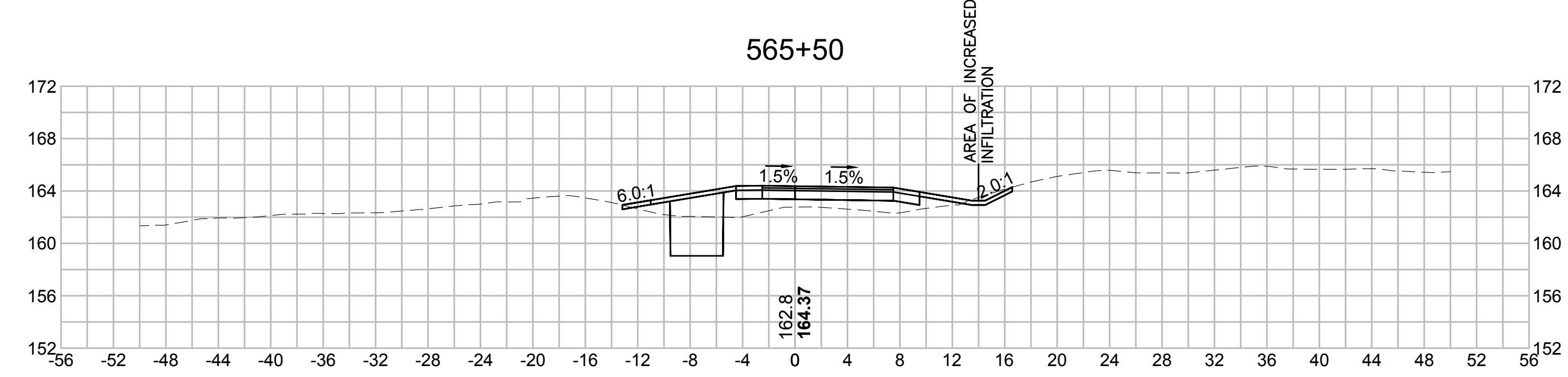
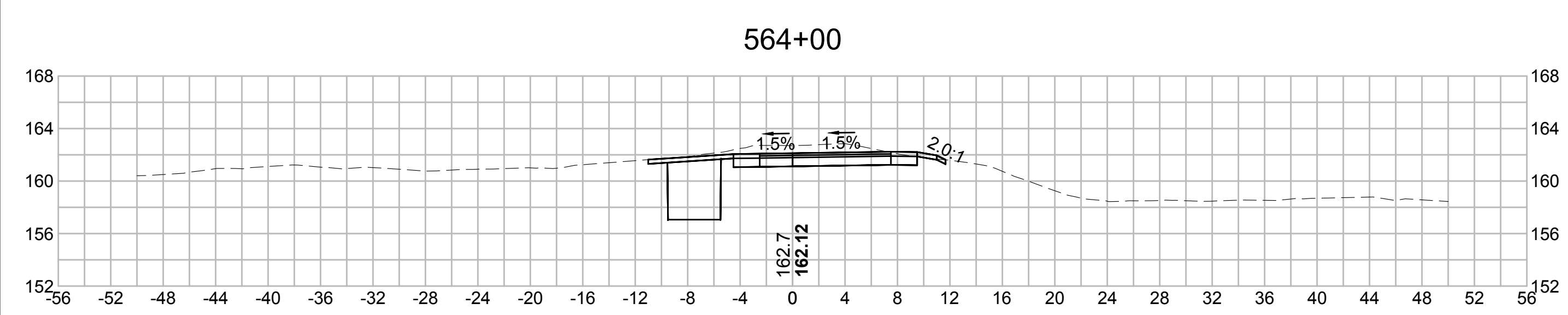
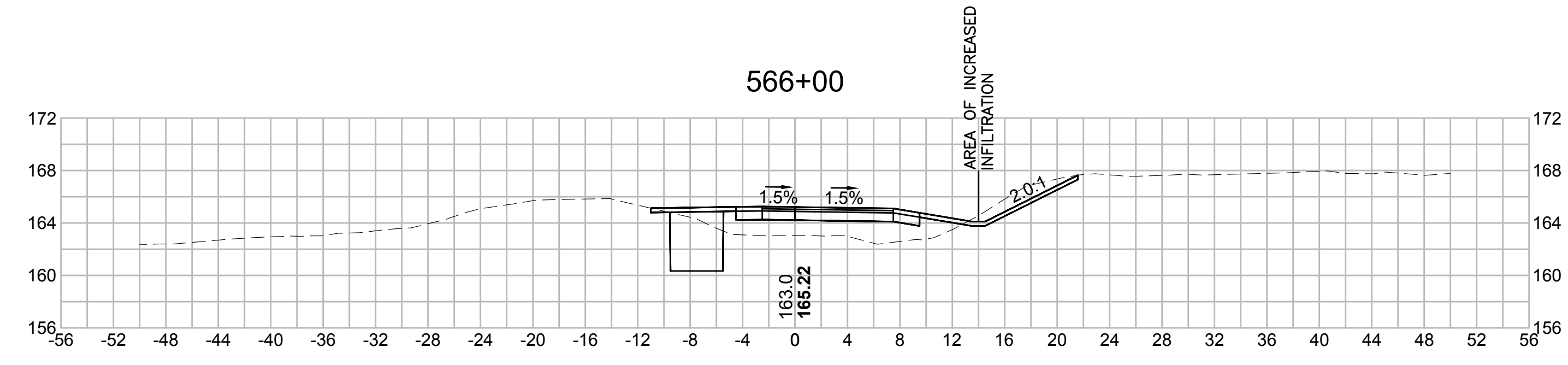
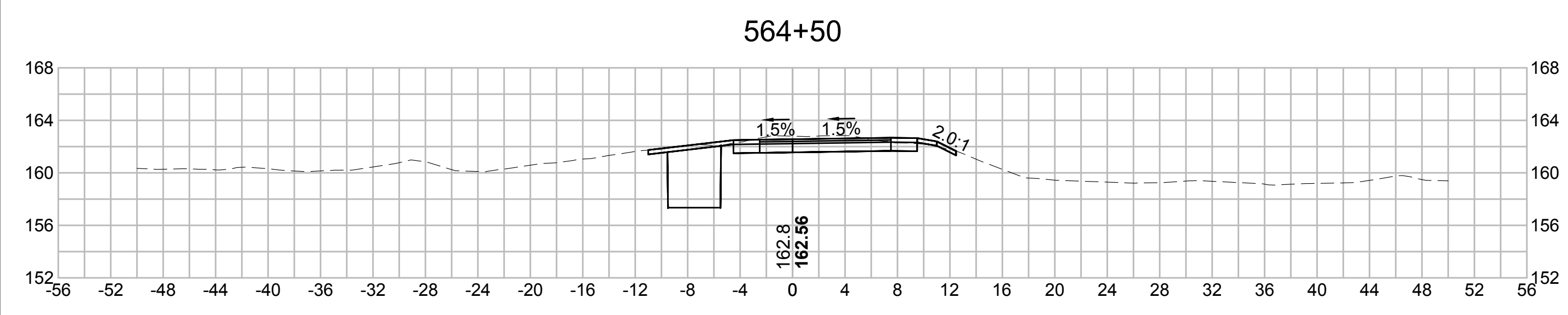
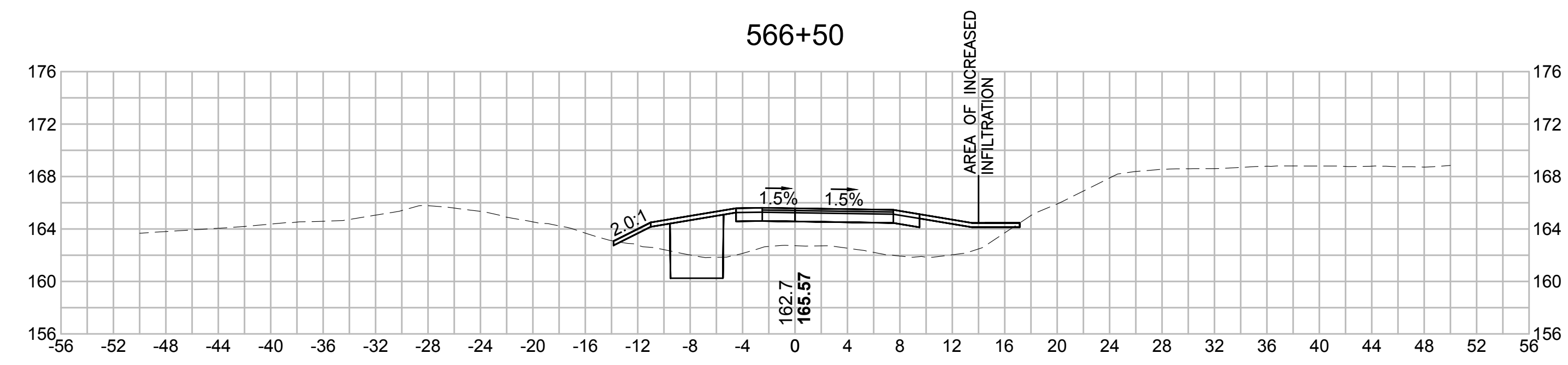
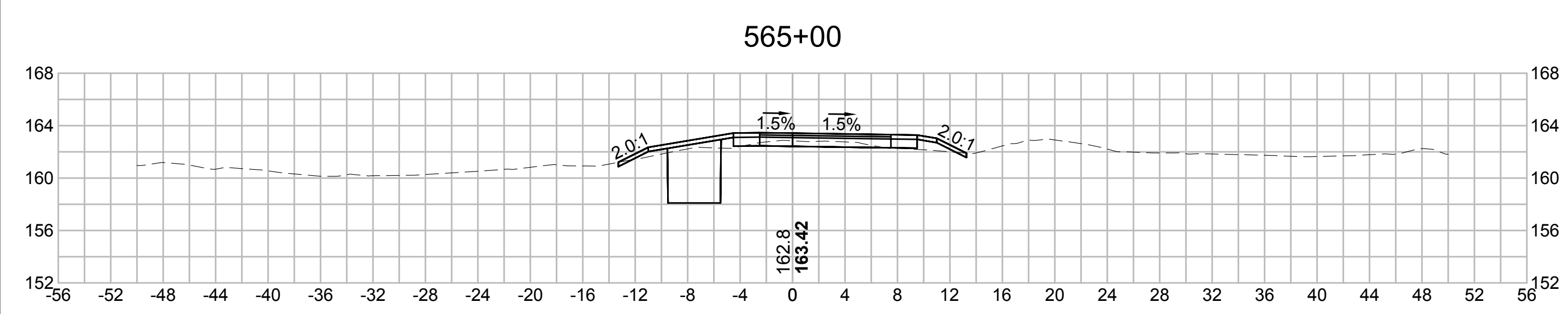
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 308 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| | DRAWING NO. | REV. | | |

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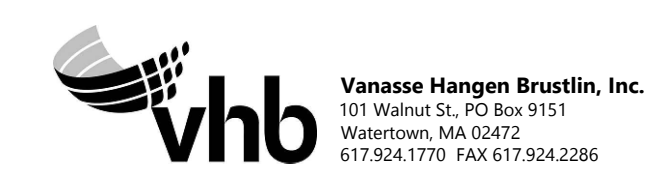
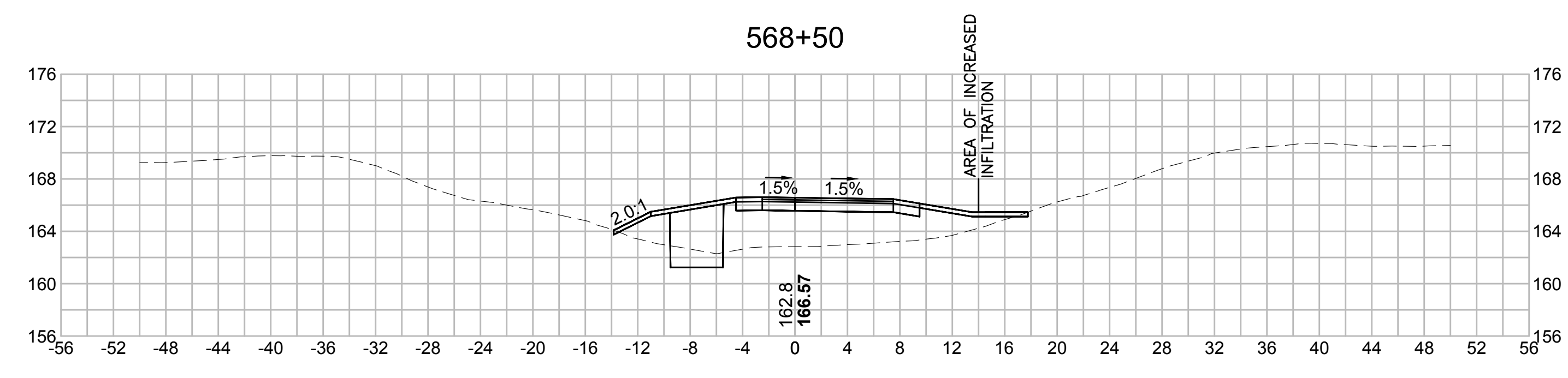
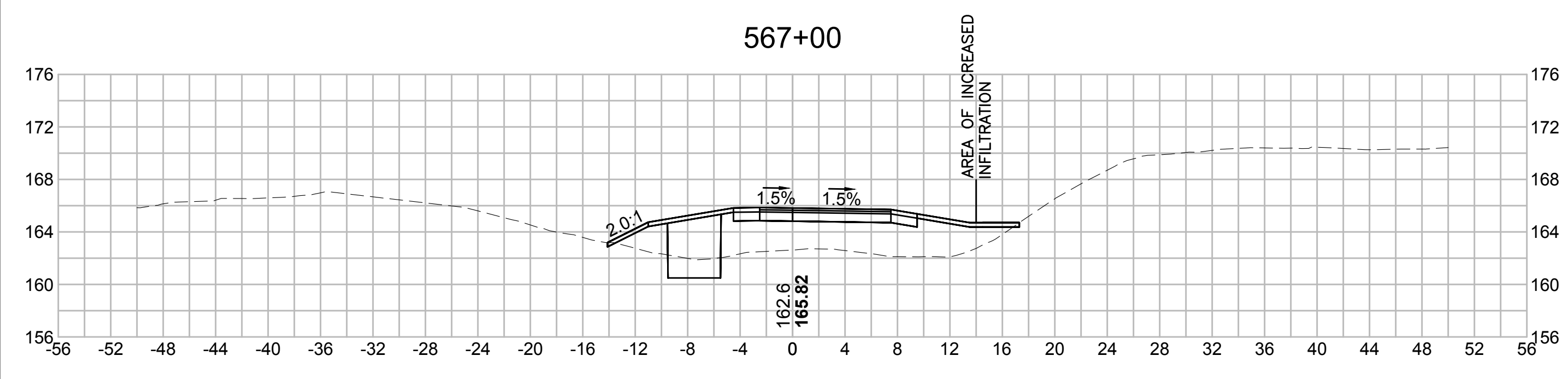
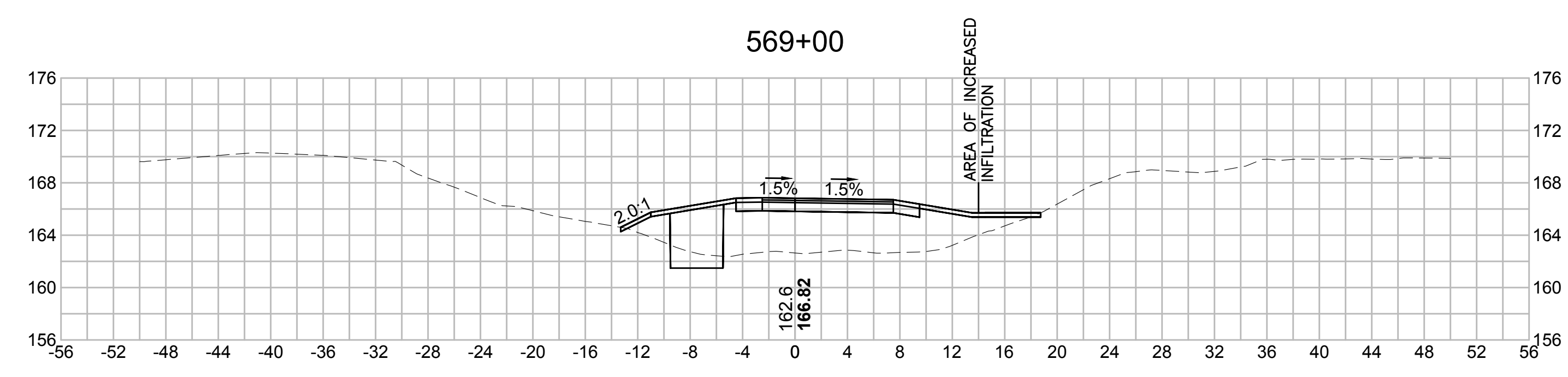
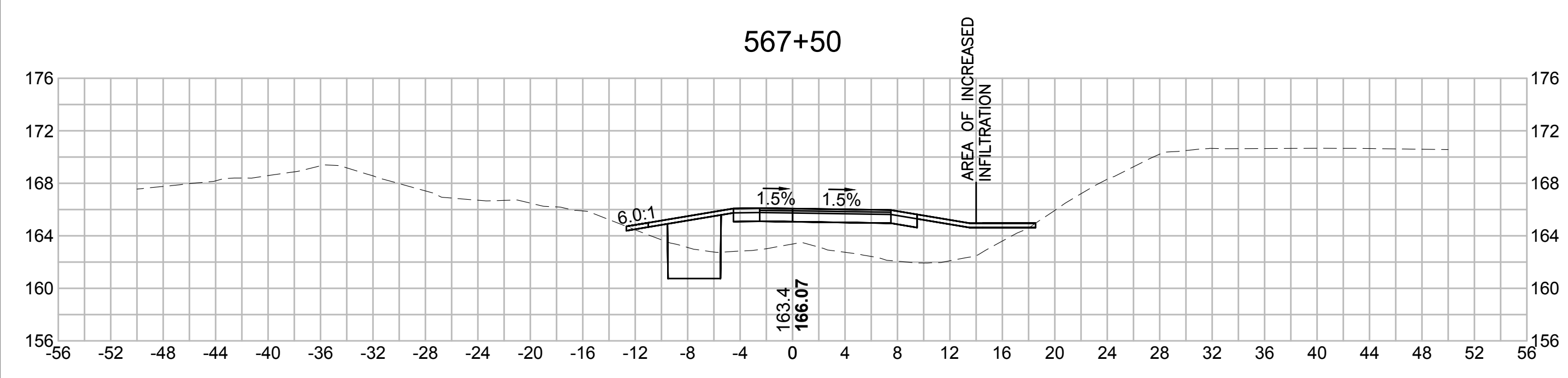
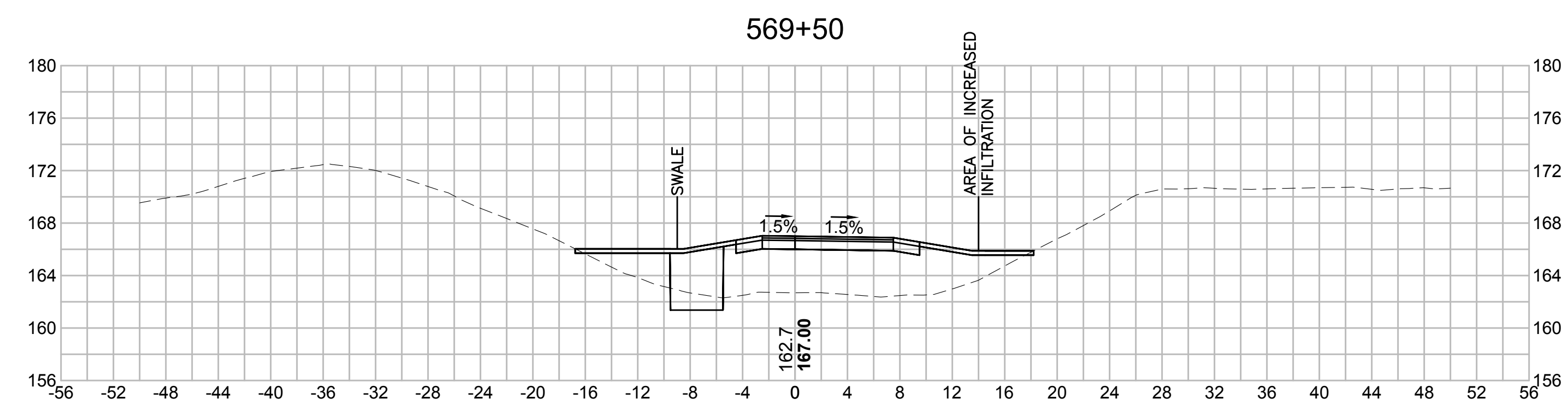
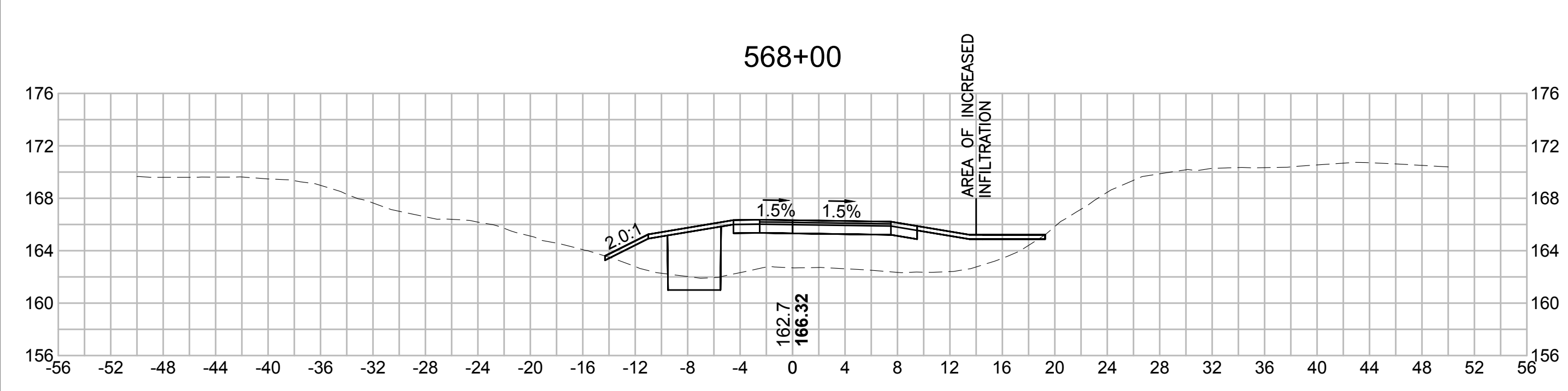
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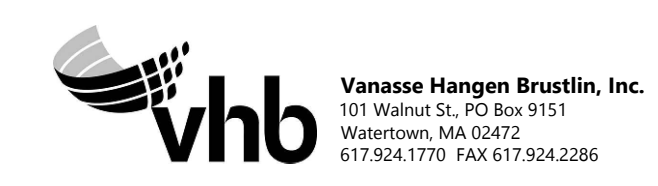
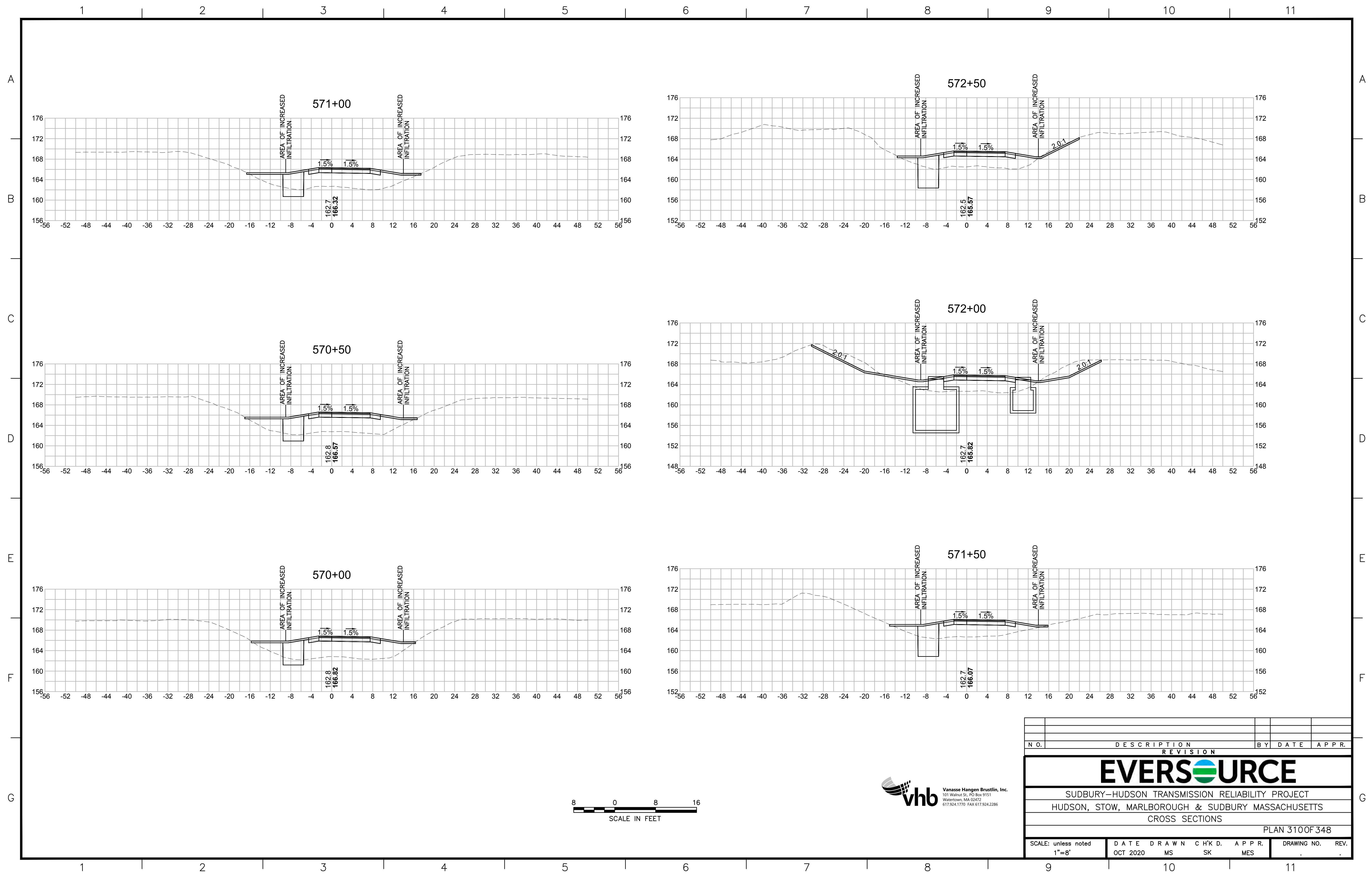
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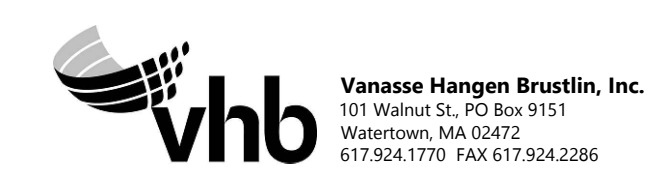
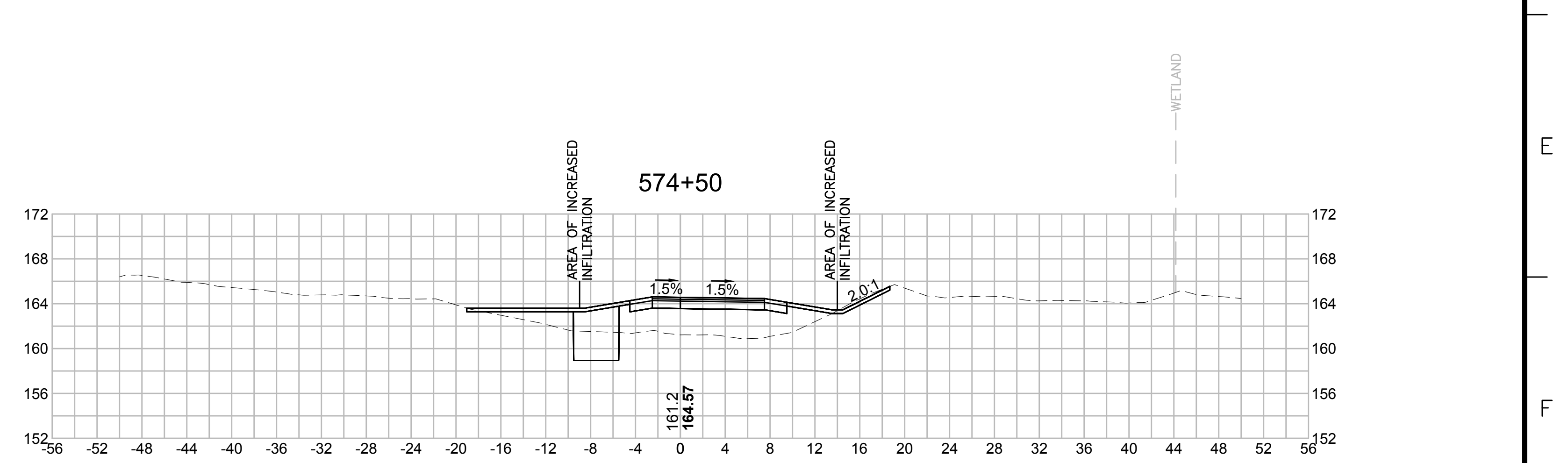
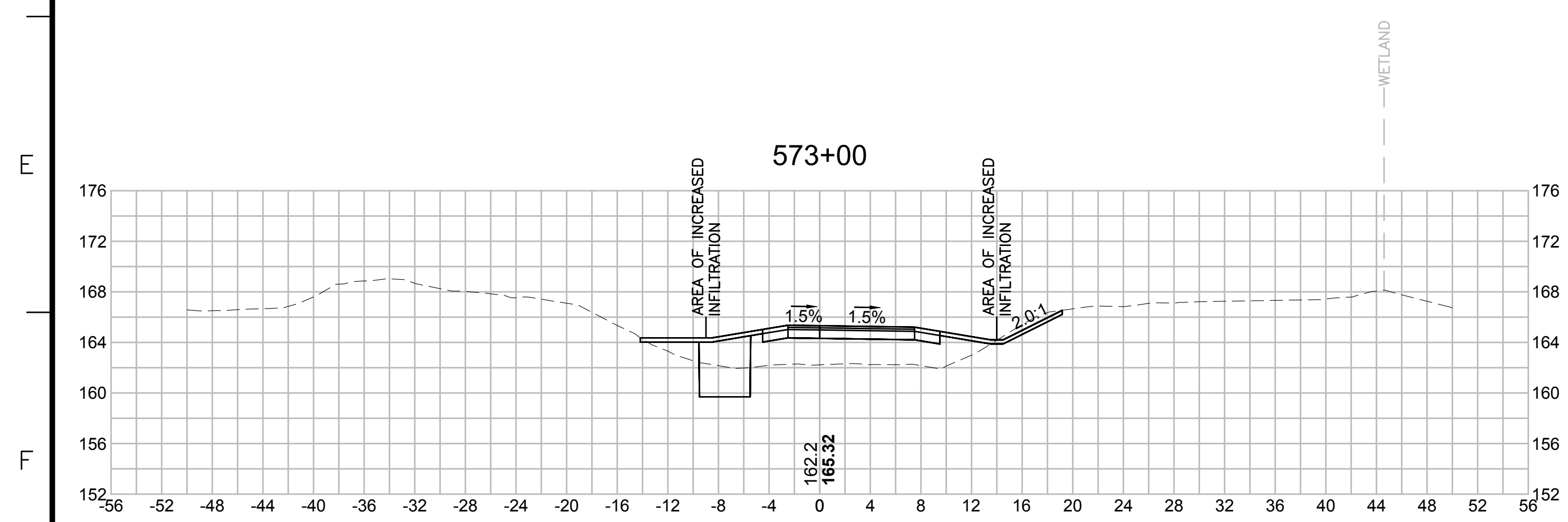
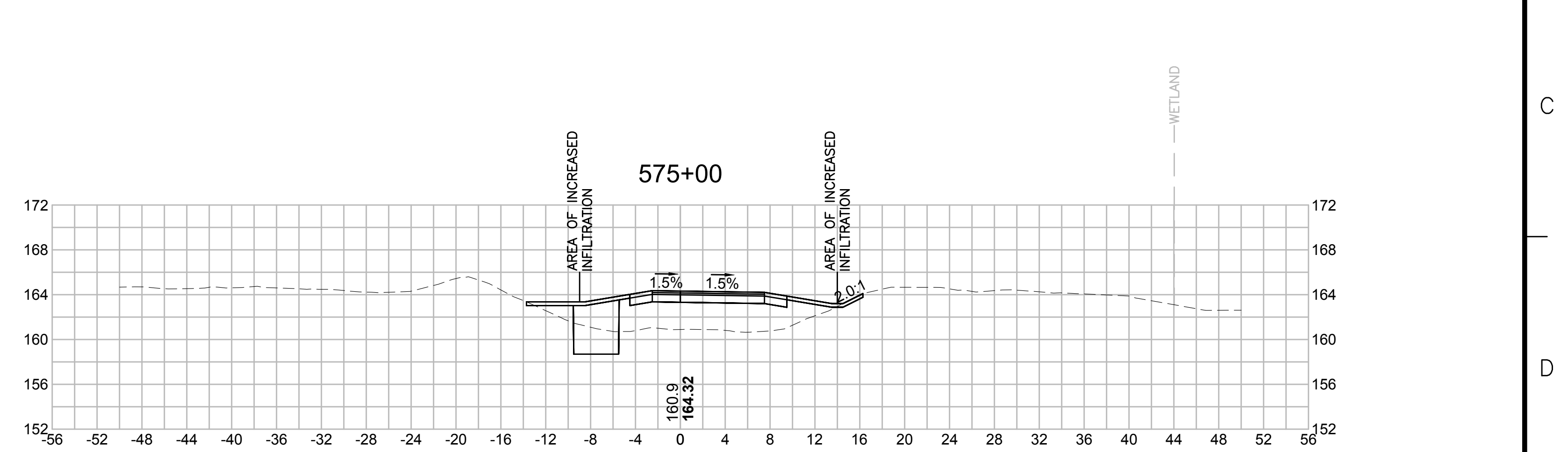
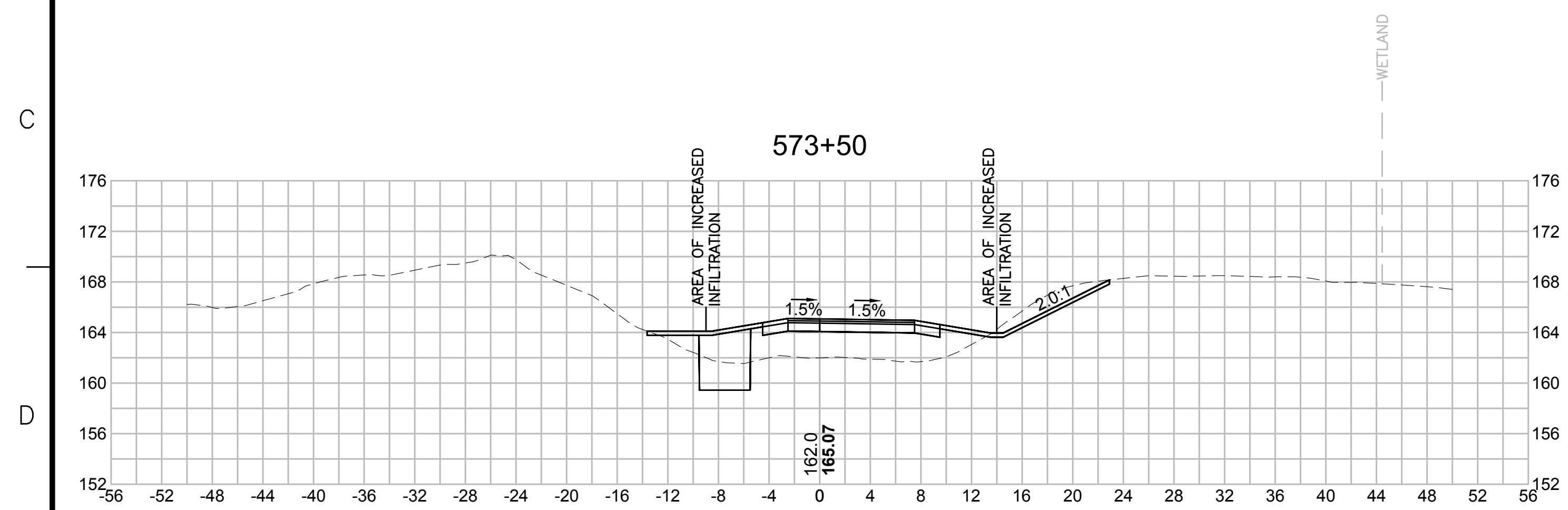
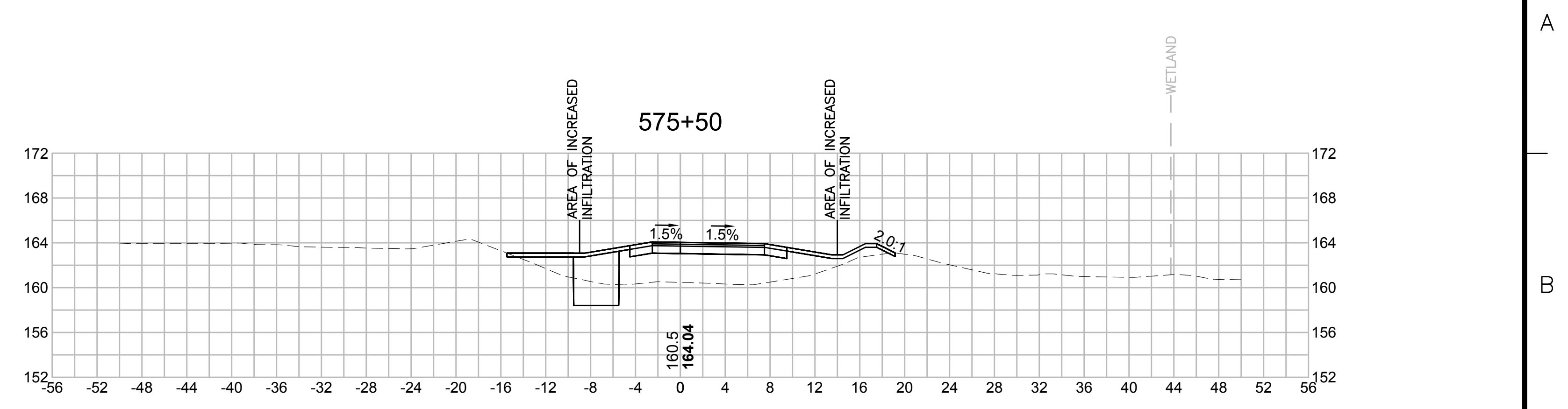
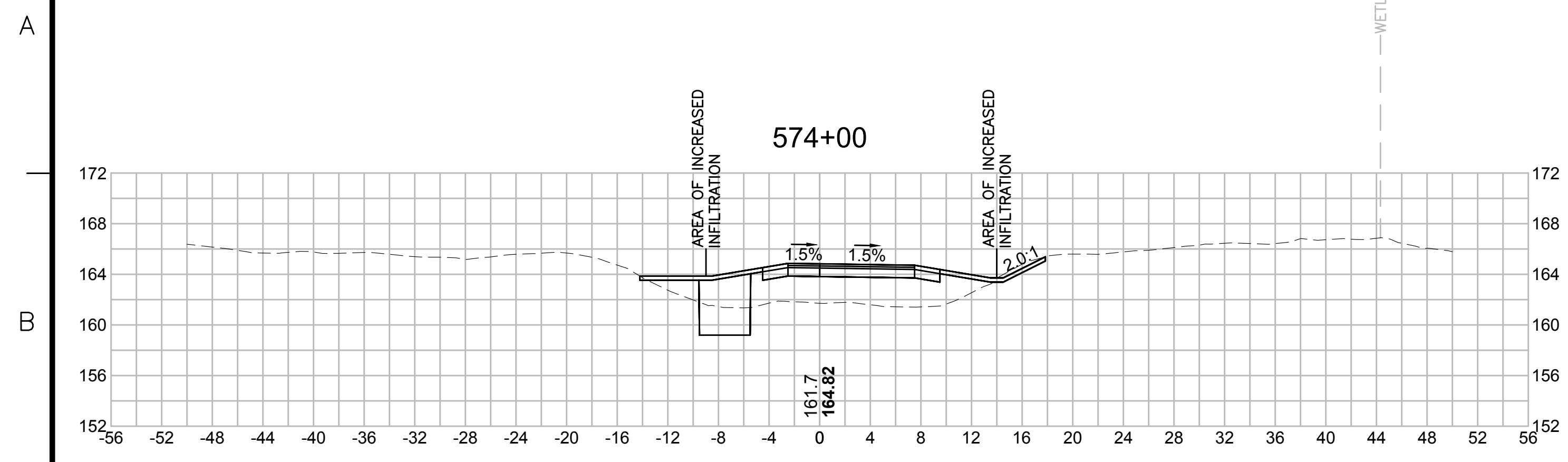


| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 309 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | C'H'K'D. SK | A P P R. MES |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | |
| CROSS SECTIONS | | | | | |
| PLAN 310 OF 348 | | | | | |
| SCALE: unless noted 1"=8' | | DATE | DRAWN | CHK'D | APPR. |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 3110F348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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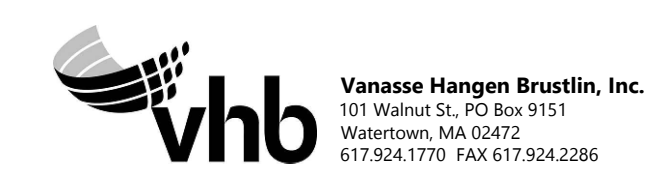
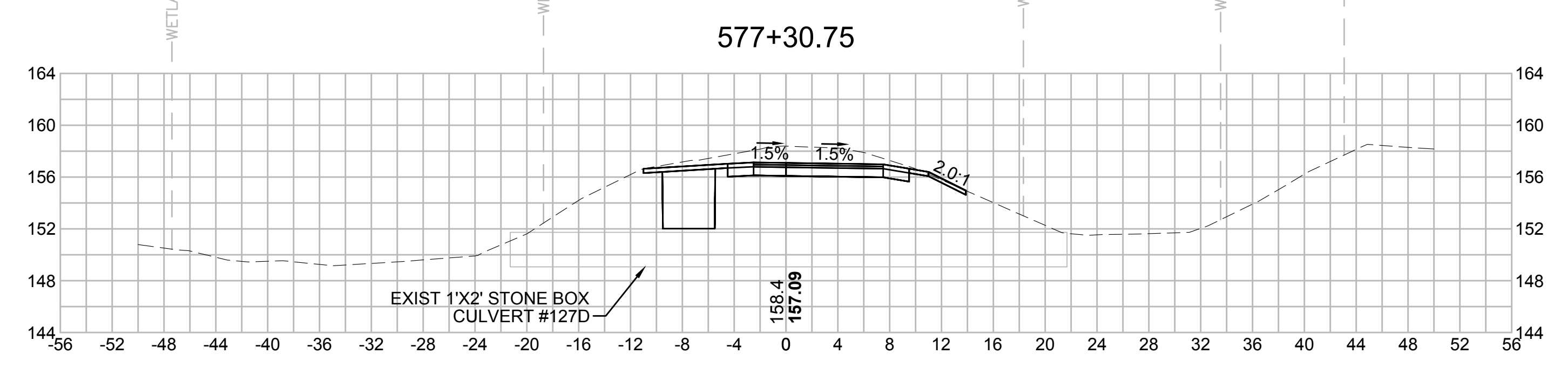
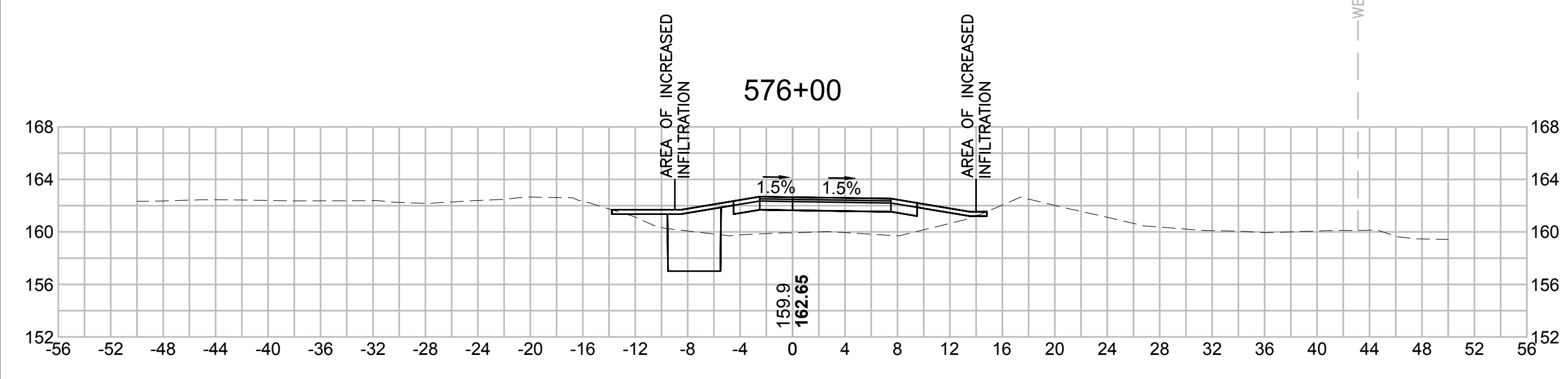
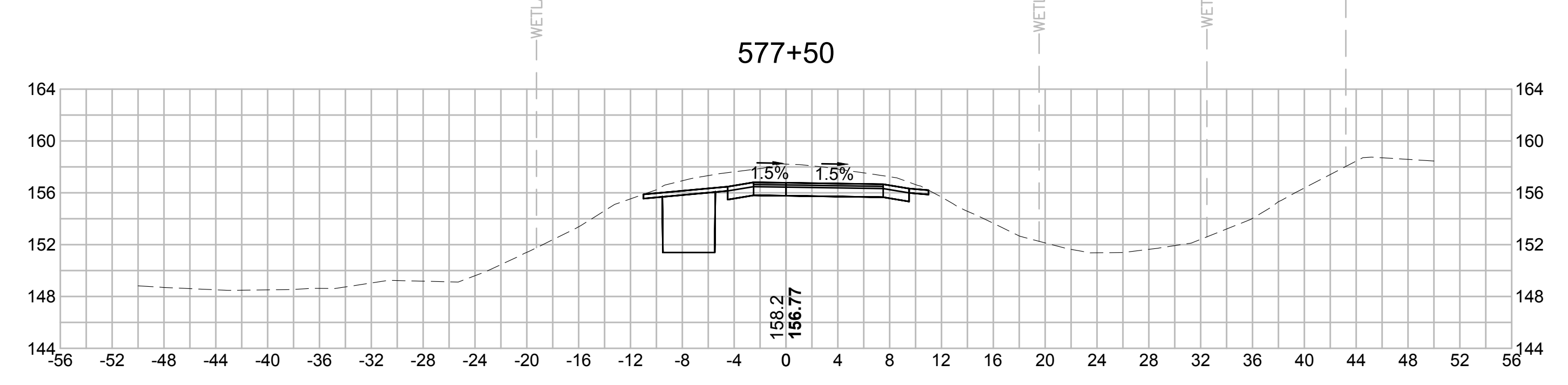
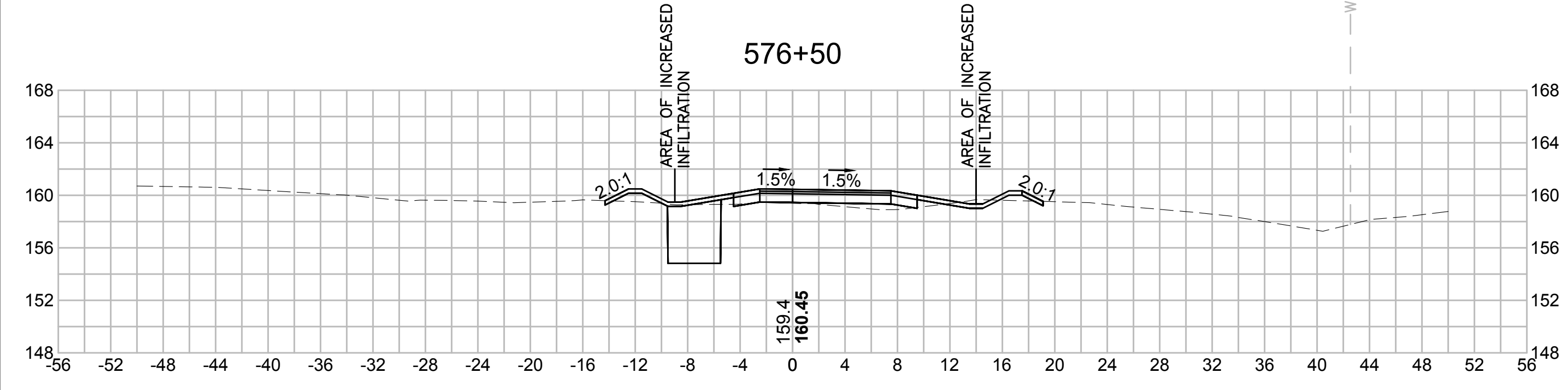
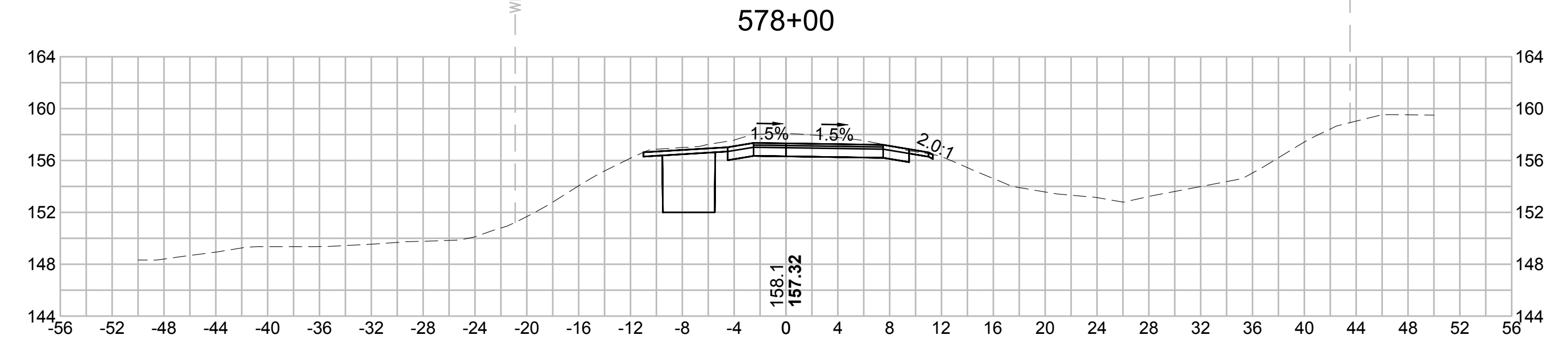
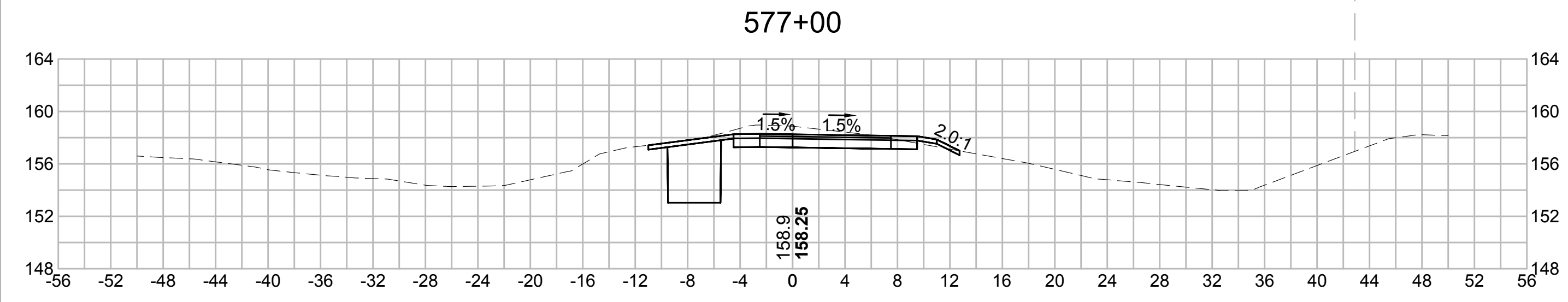
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS

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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. REV. |
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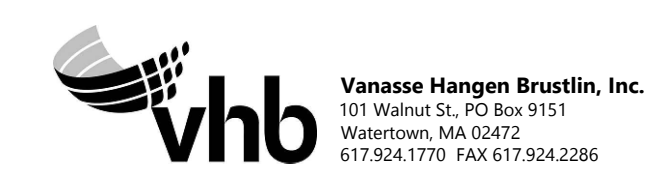
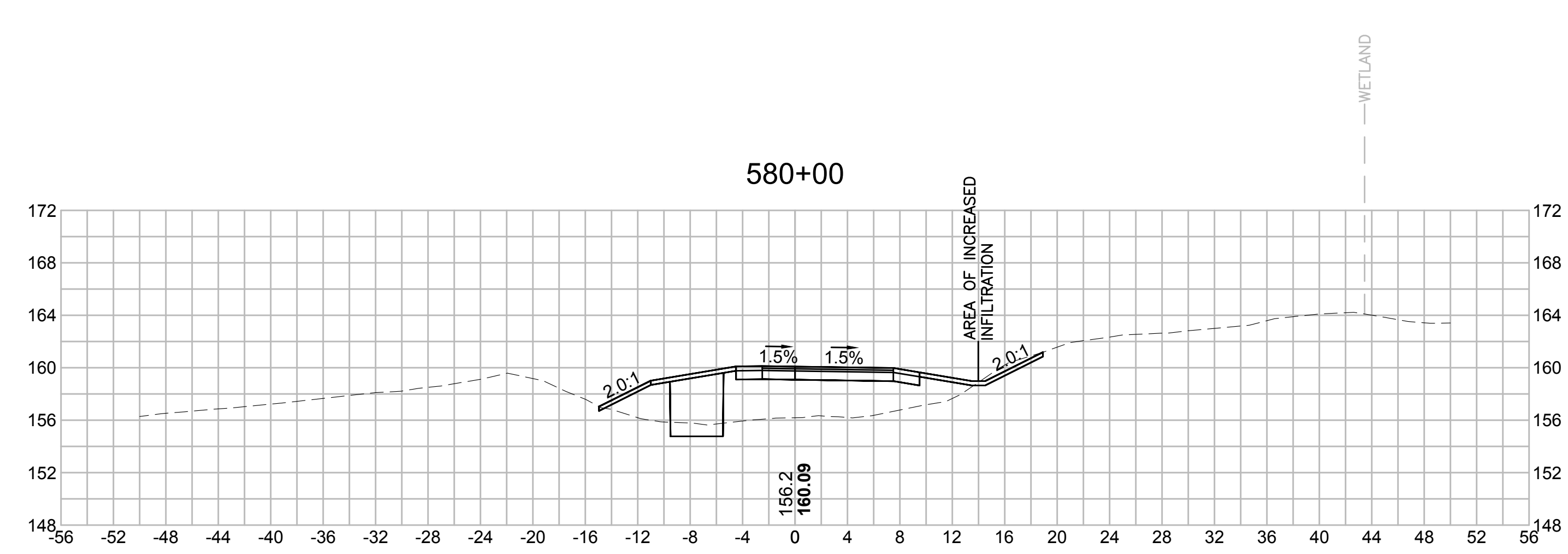
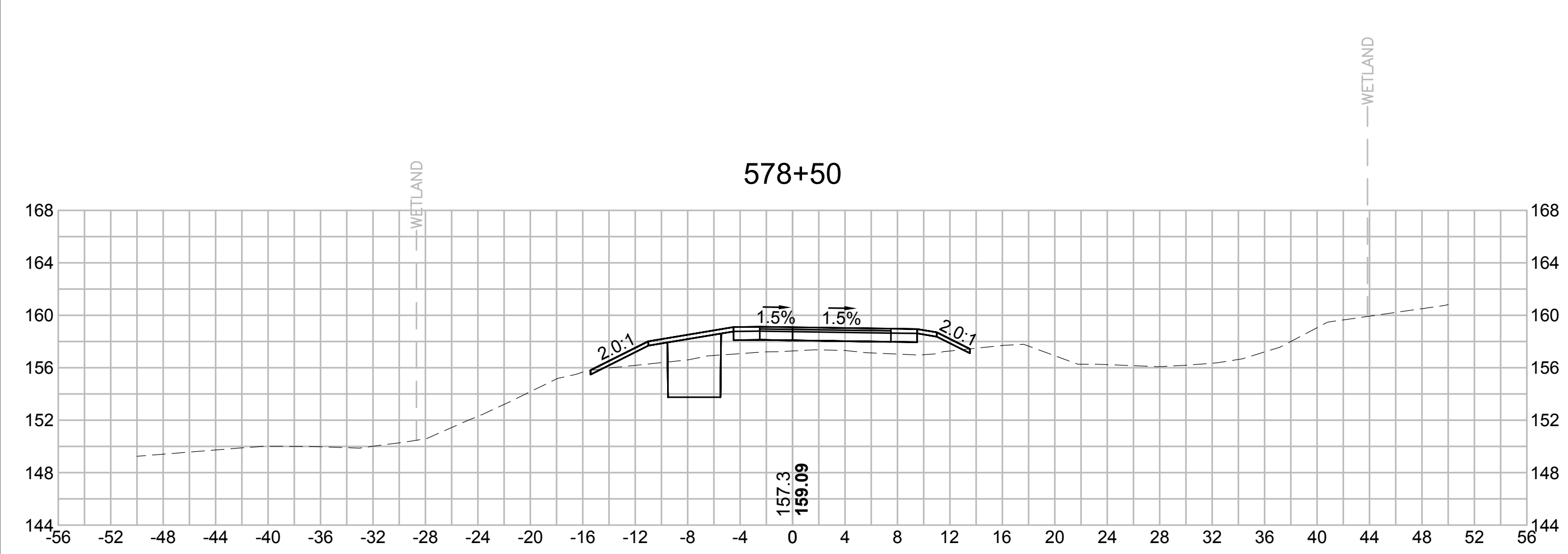
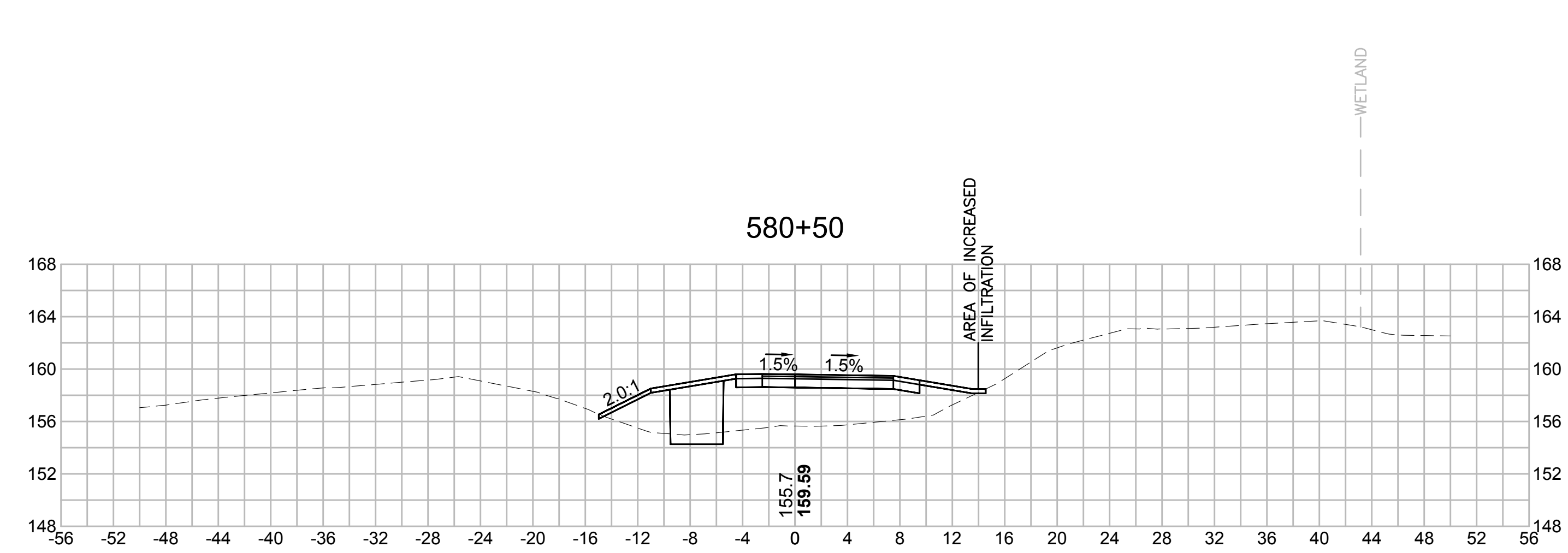
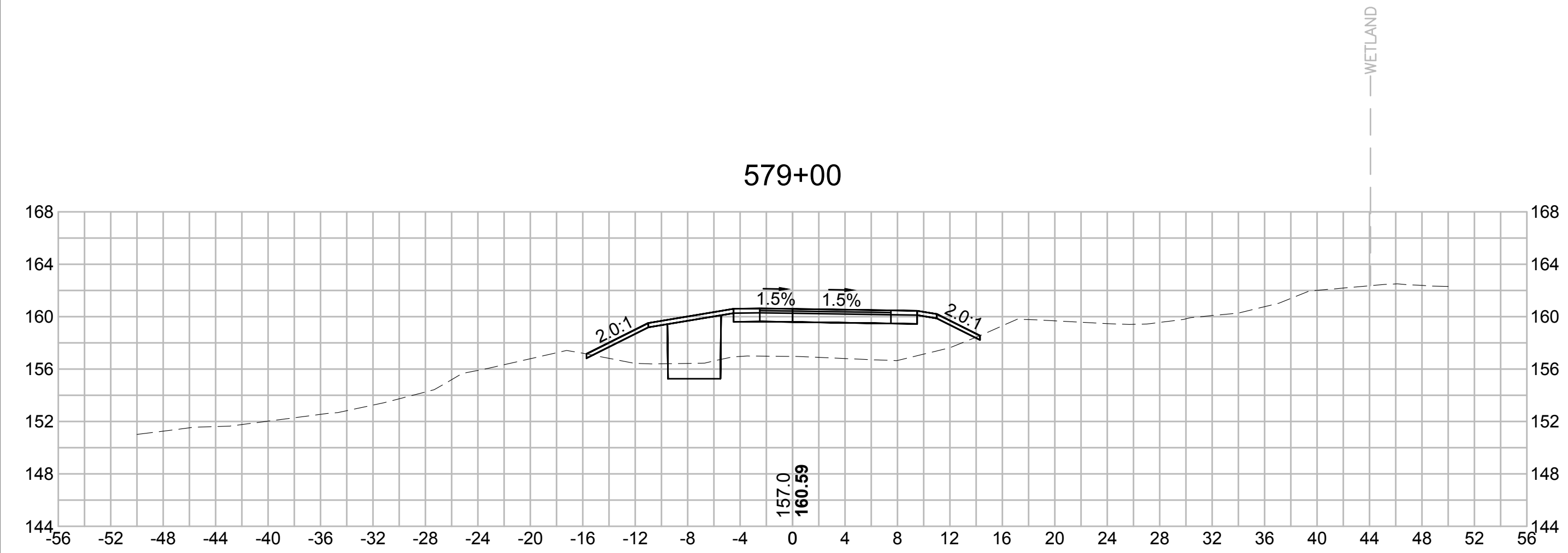
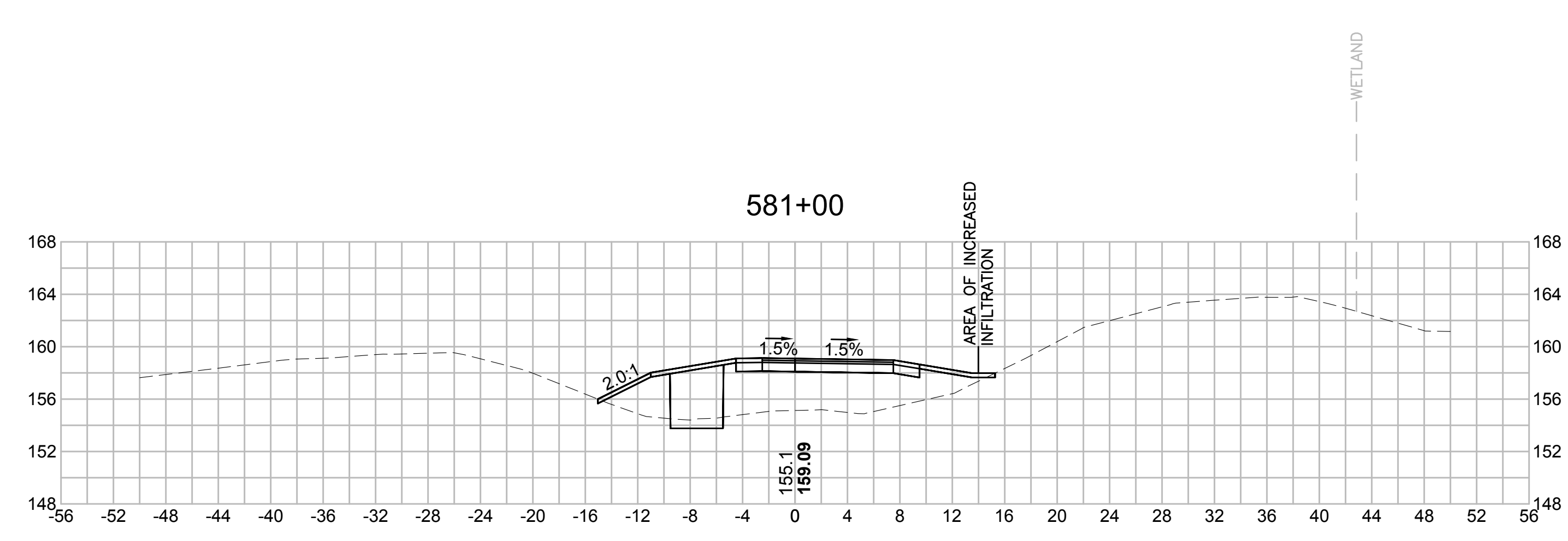
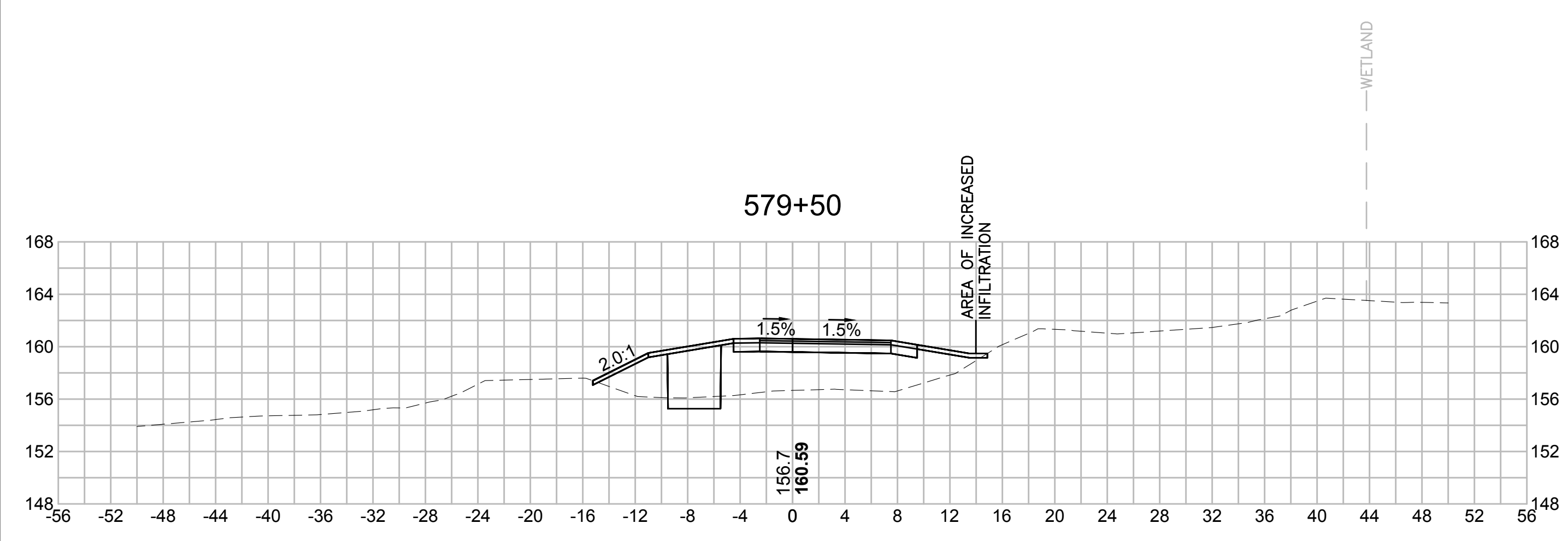
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 313 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| | DRAWING NO. | REV. | | |

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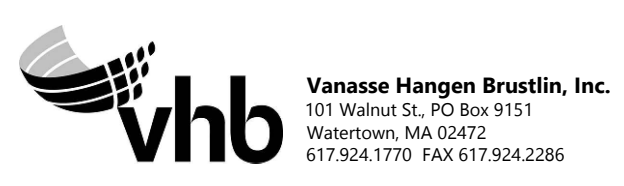
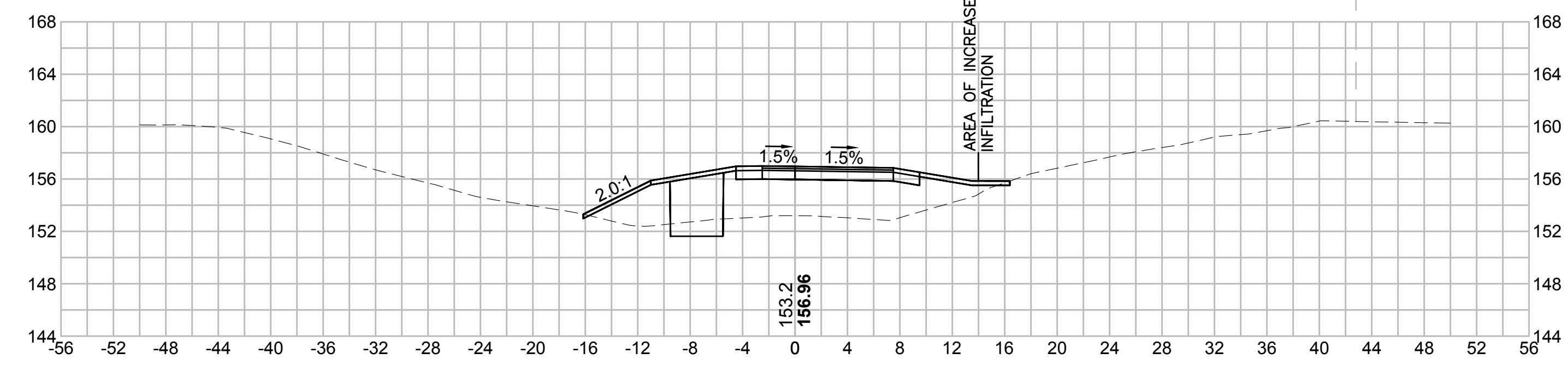
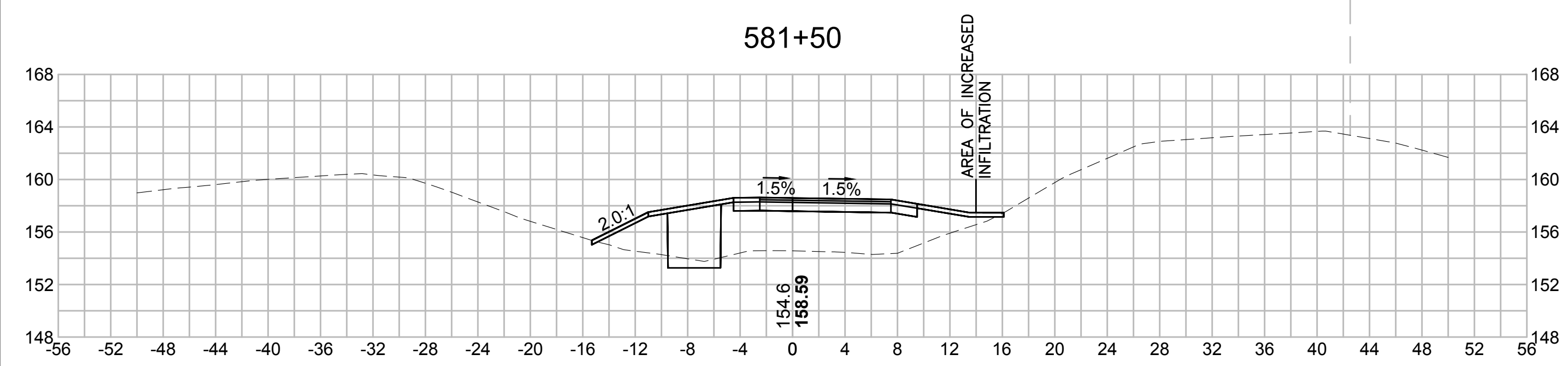
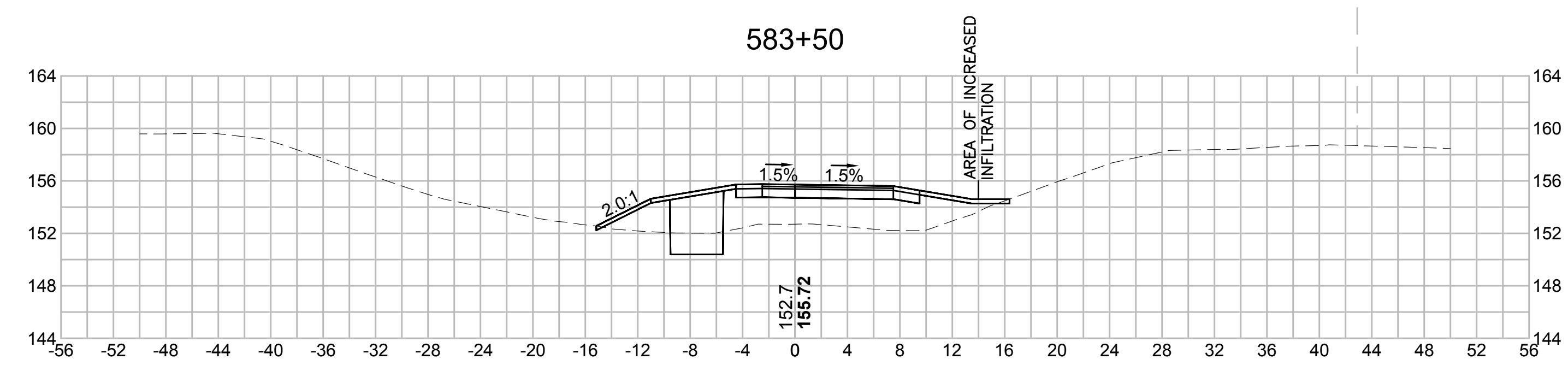
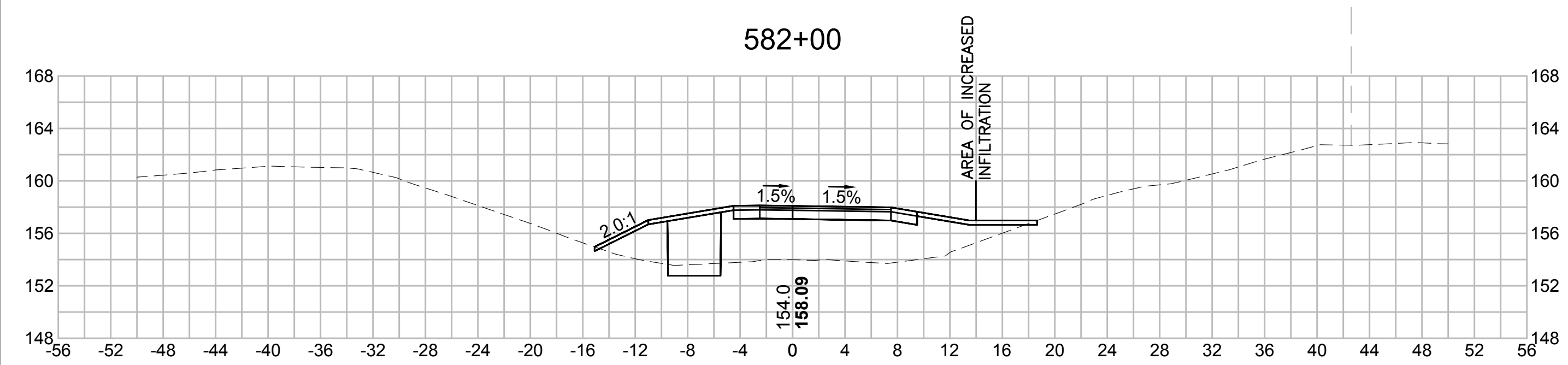
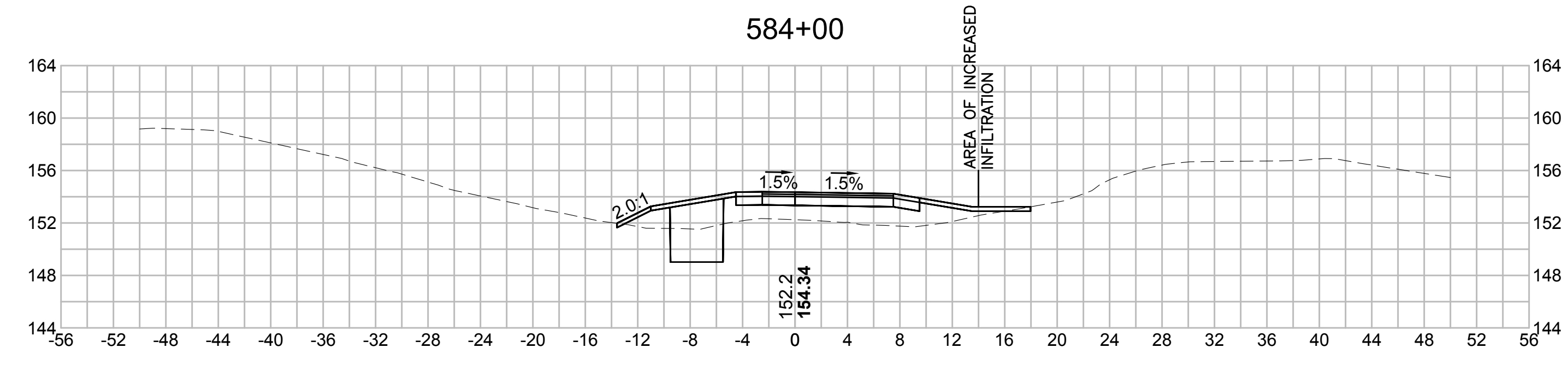
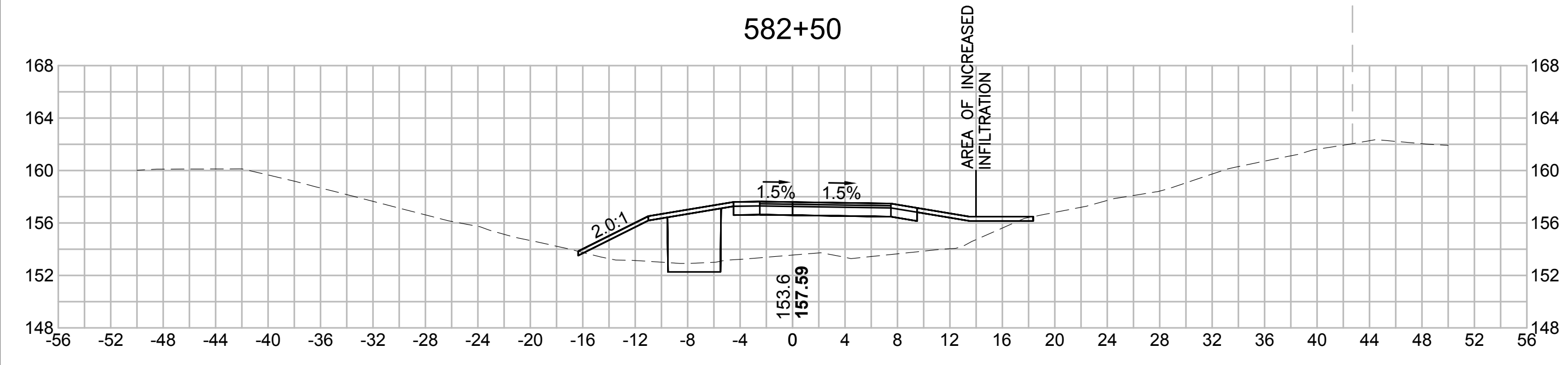
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS

PLAN 314 OF 348

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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. | REV. |
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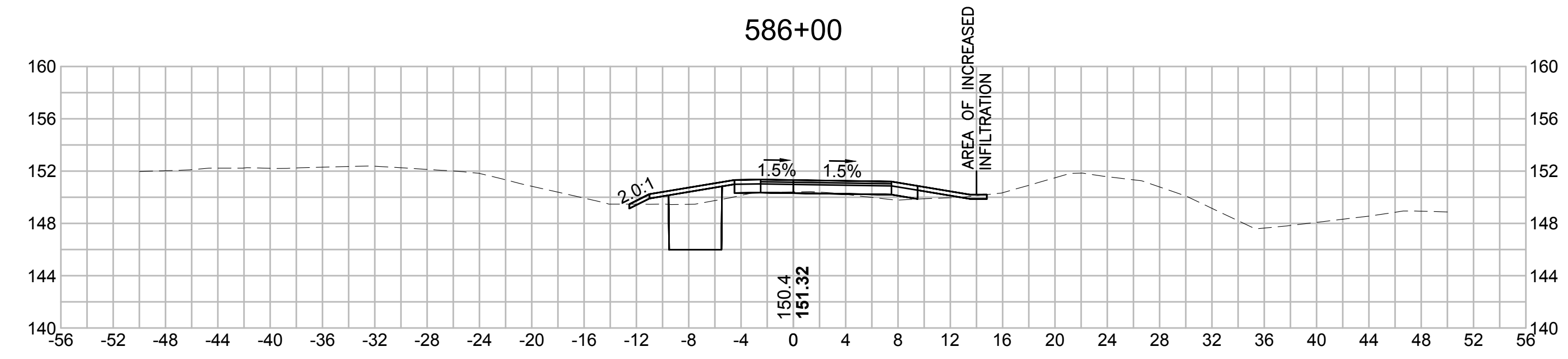
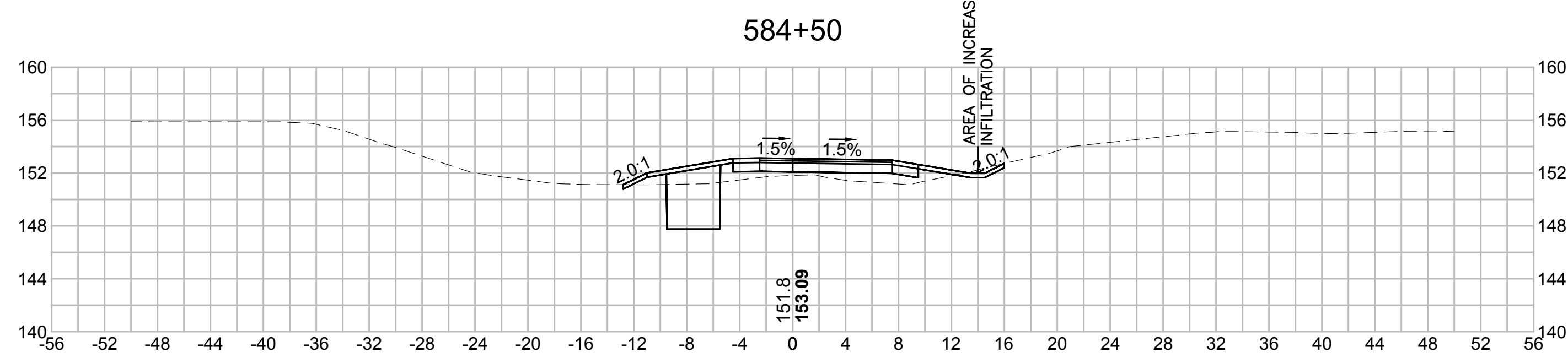
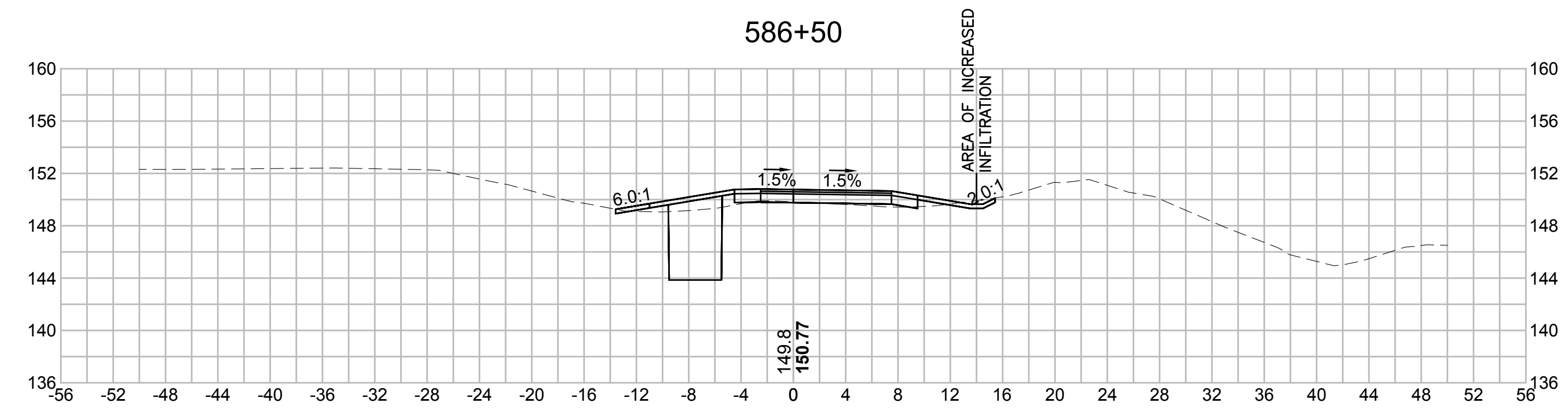
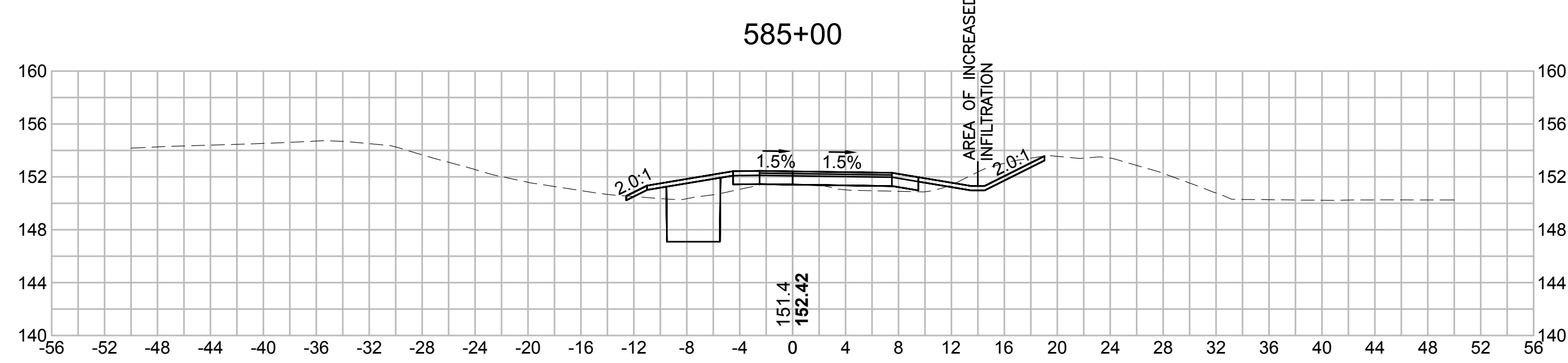
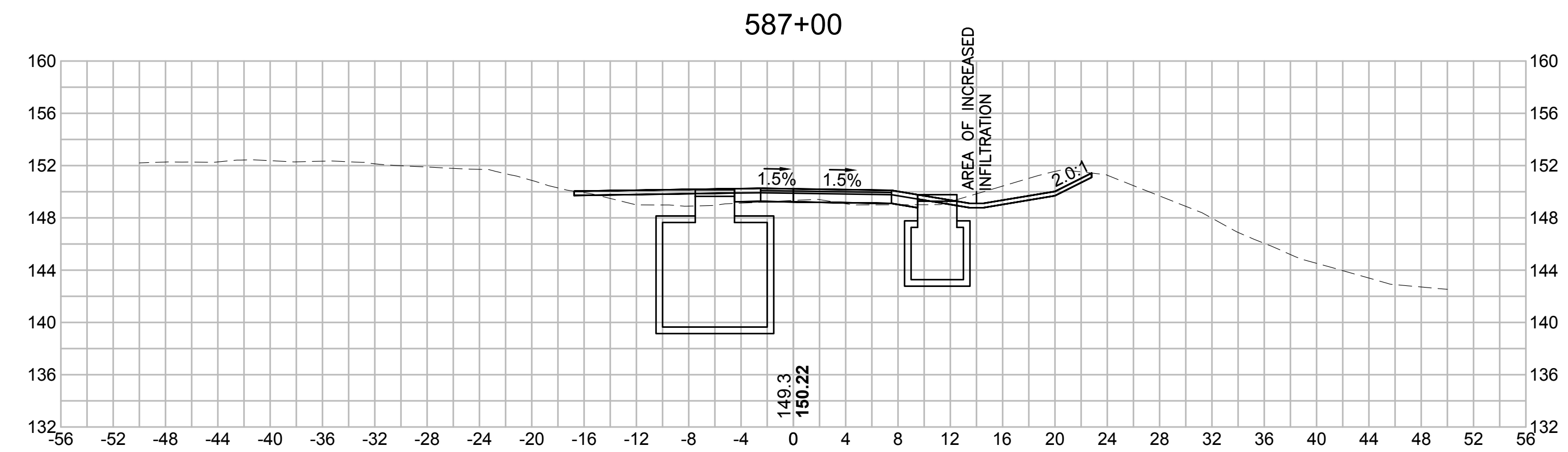
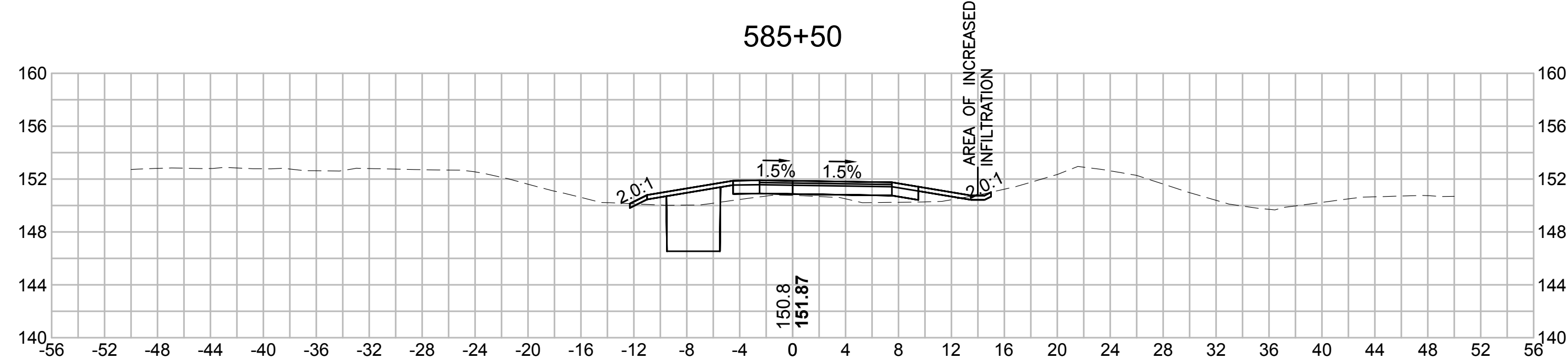
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | |
| CROSS SECTIONS | | | | | | |
| PLAN 315 OF 348 | | | | | | |
| SCALE: unless noted 1"=8' | DATE | DRAWN | C'H'K'D. | A P P R. | DRAWING NO. | REV. |
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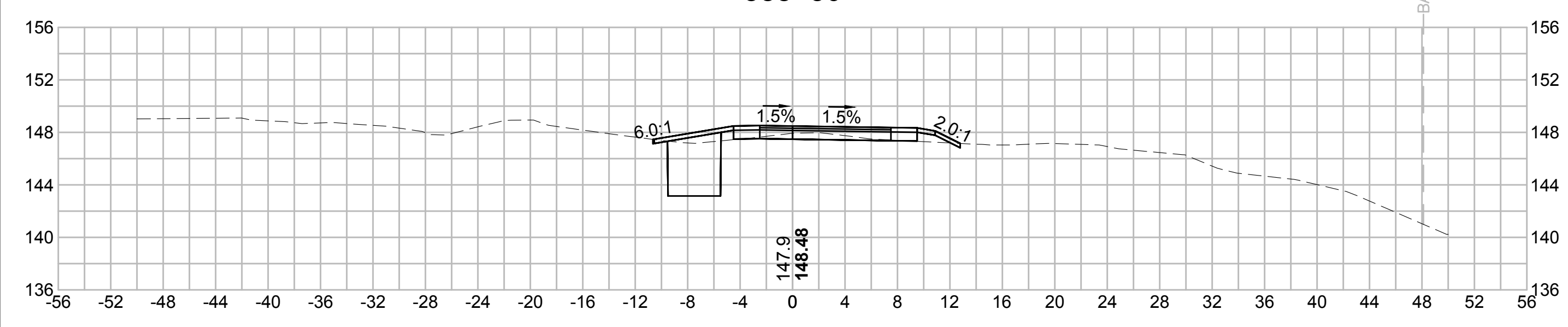
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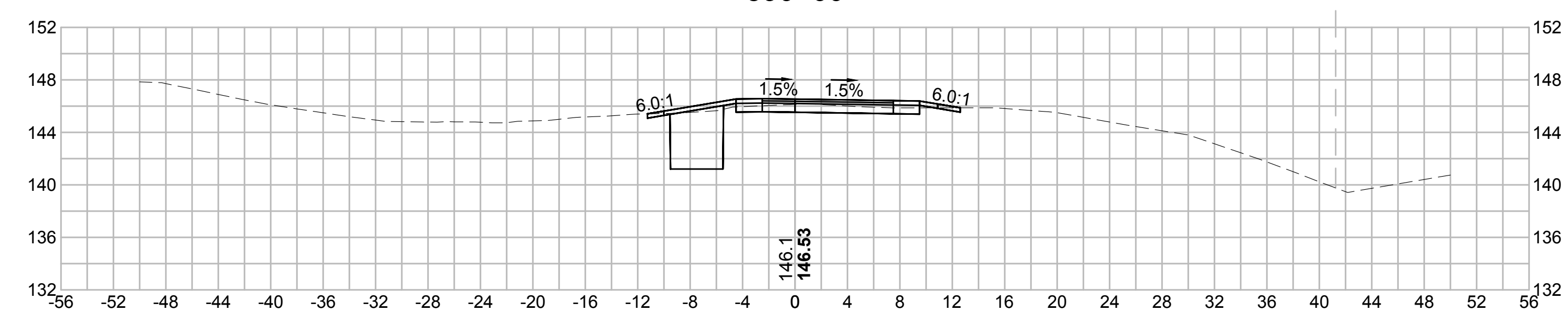
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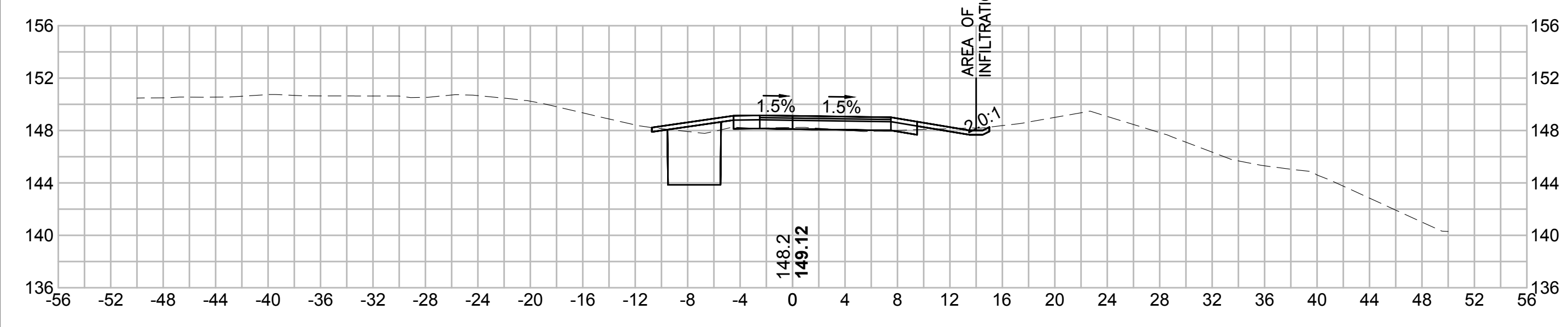
588+50



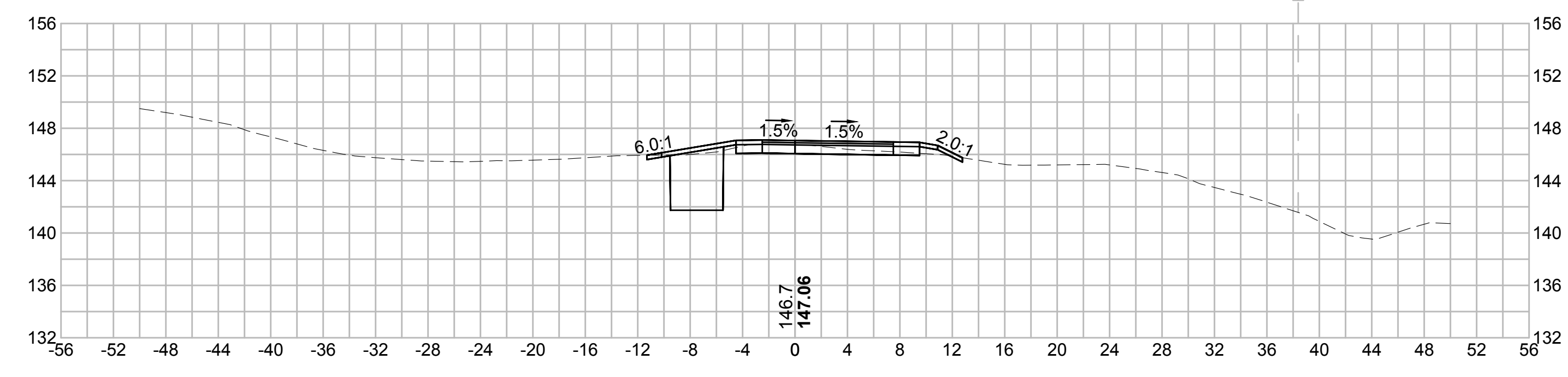
590+00



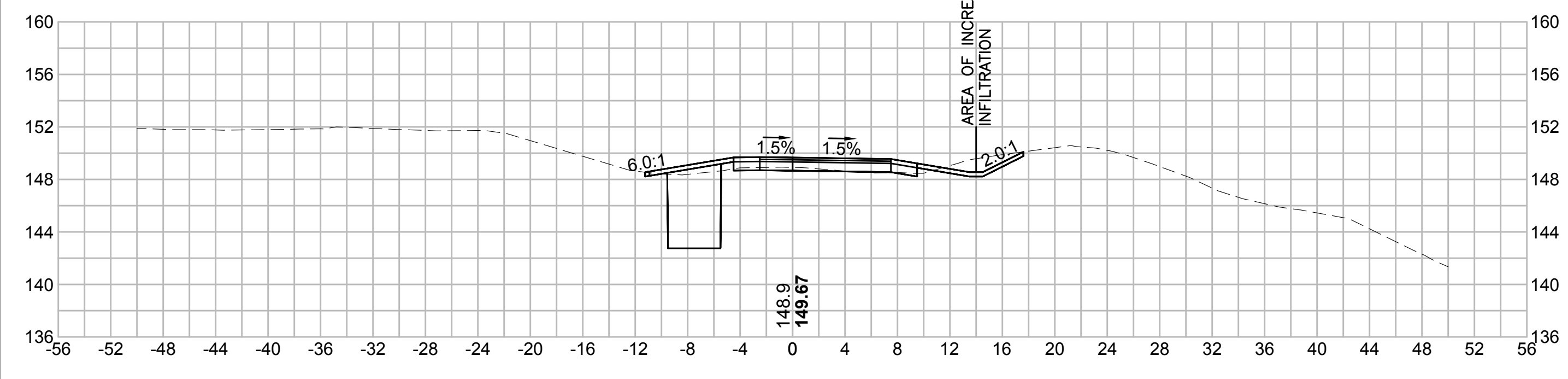
588+00



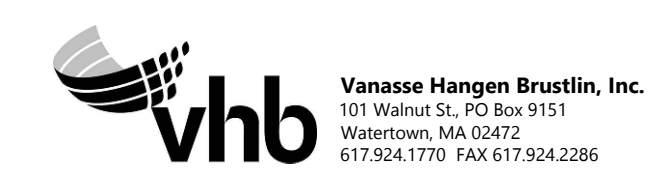
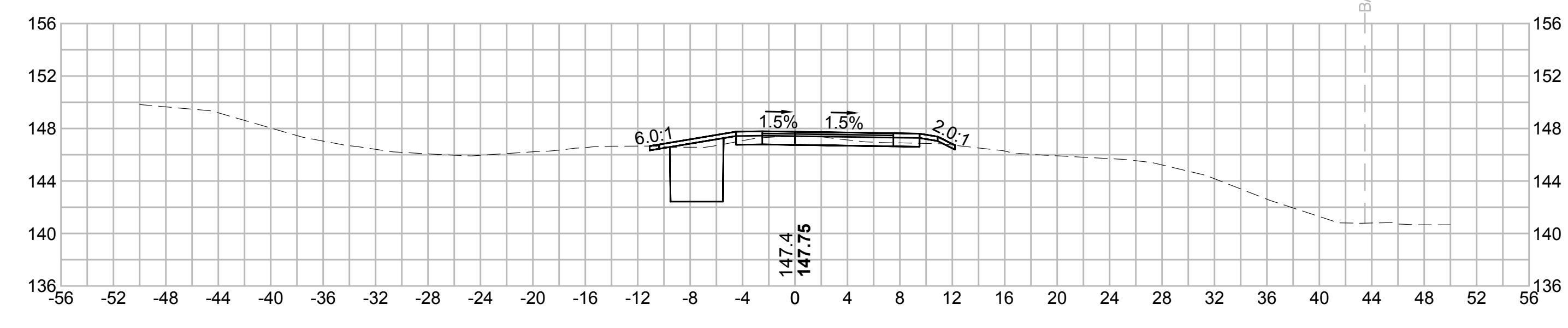
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CROSS SECTIONS

PLAN 316 OF 348

| | | | | | | |
|------------------------------|------------------|-------------|---------------|-----------------|-------------|------|
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES | DRAWING NO. | REV. |
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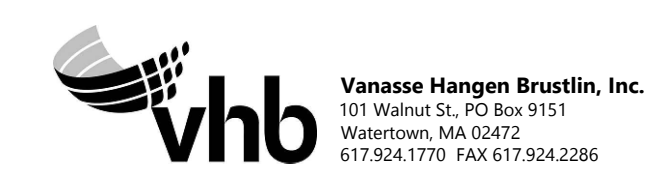
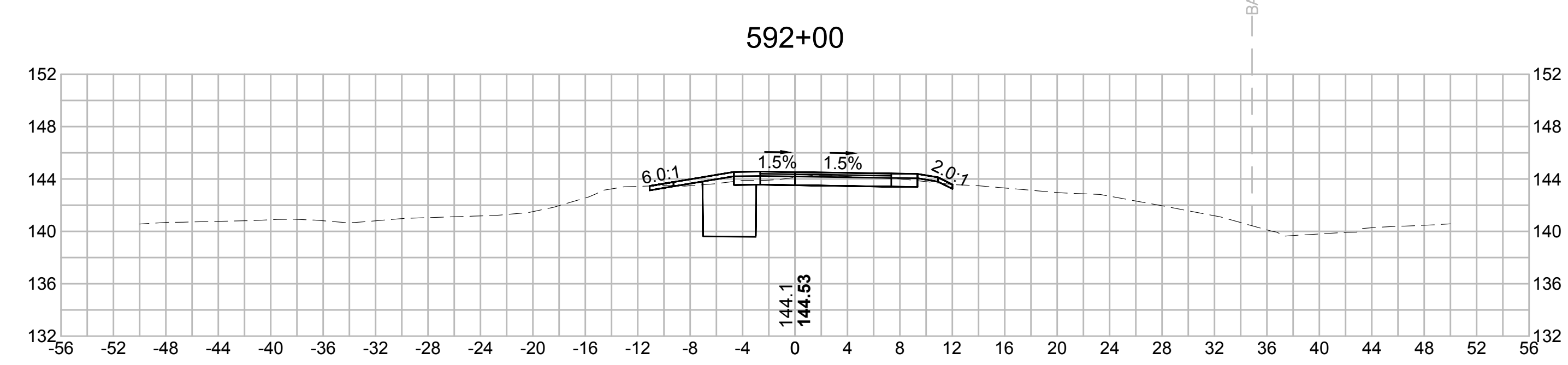
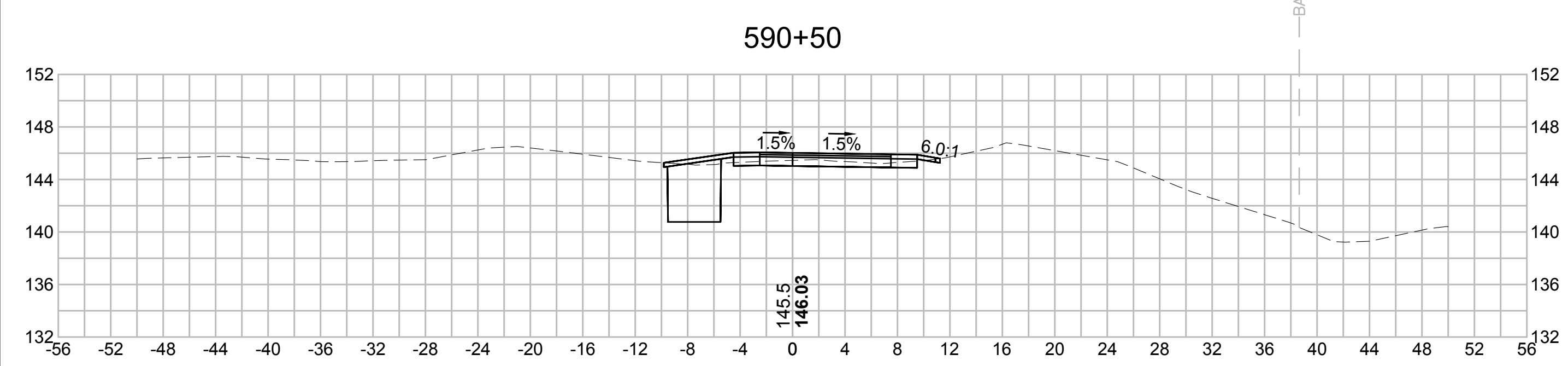
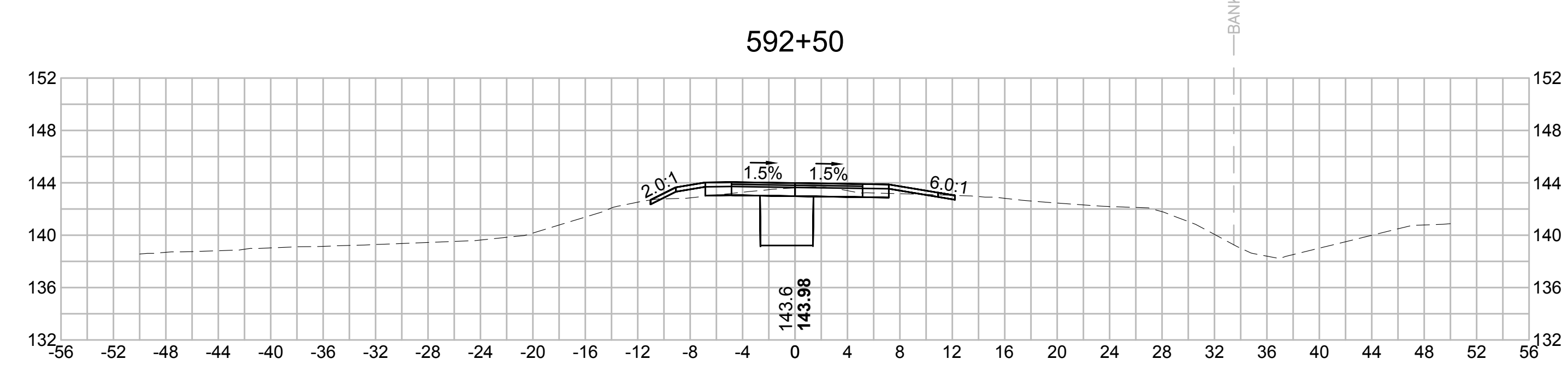
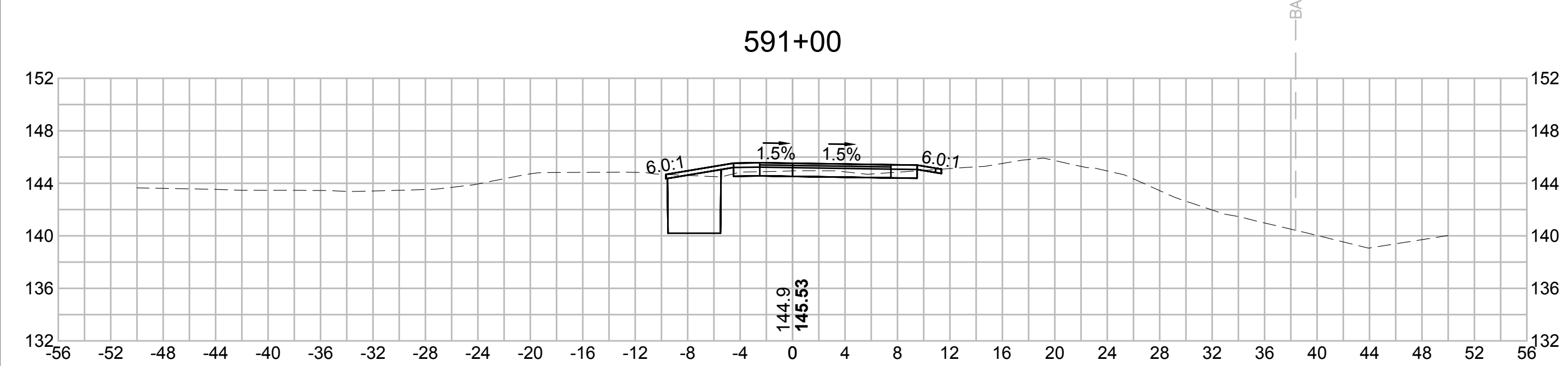
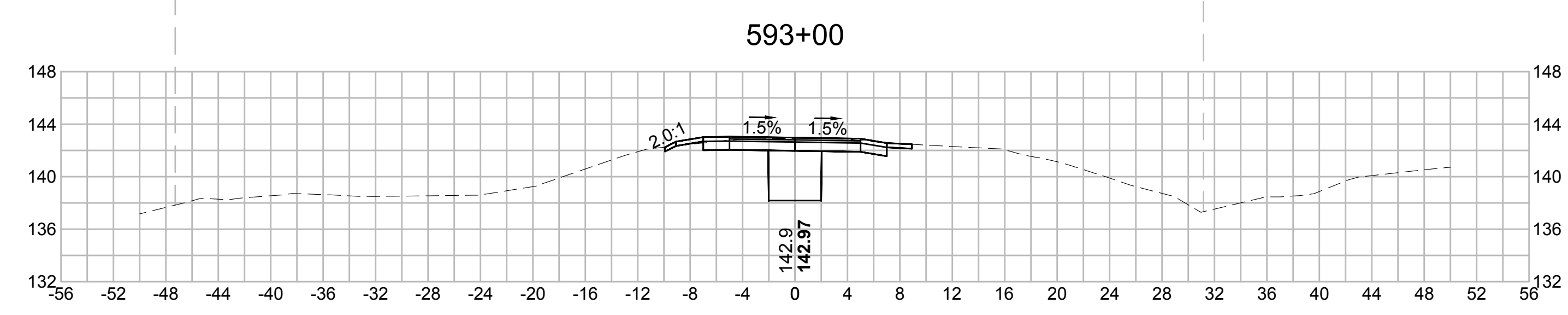
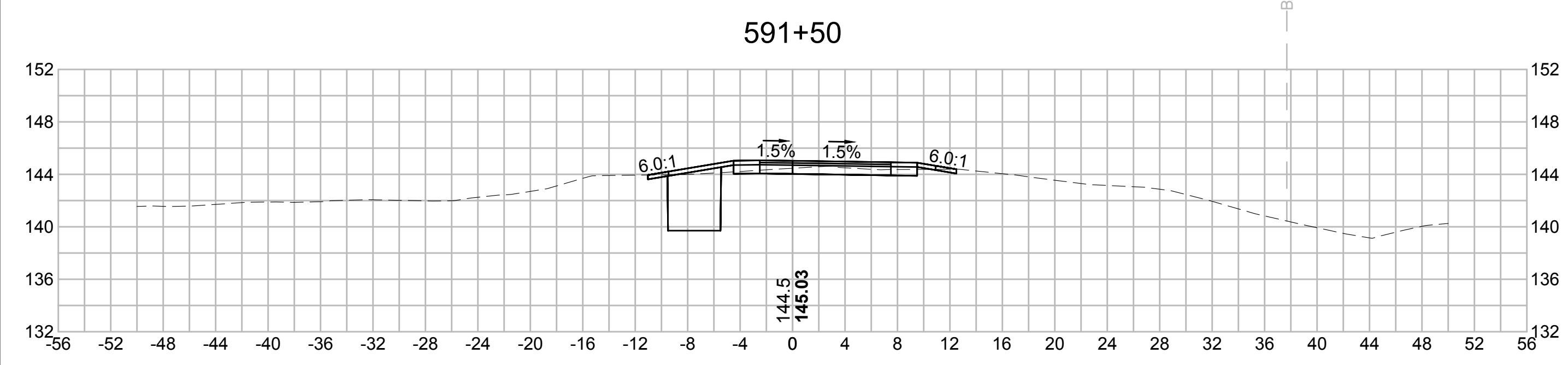
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| N O. | DESCRIPTION | BY | DATE | APPR. |
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| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 317 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

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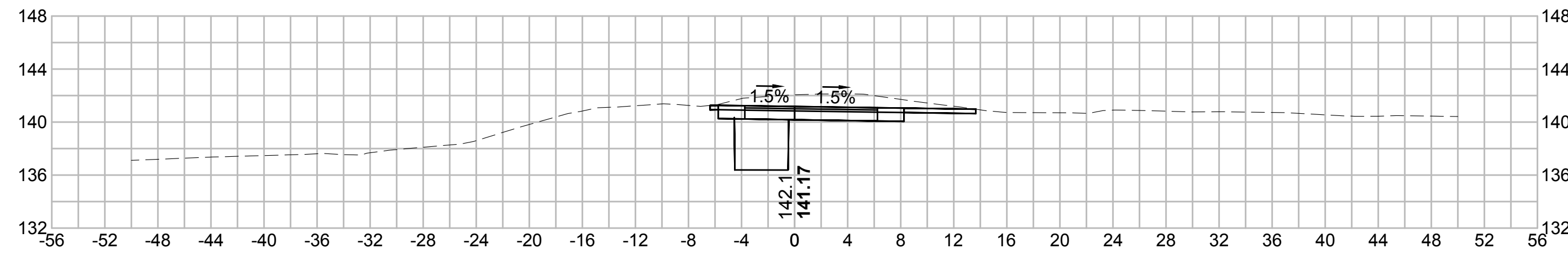
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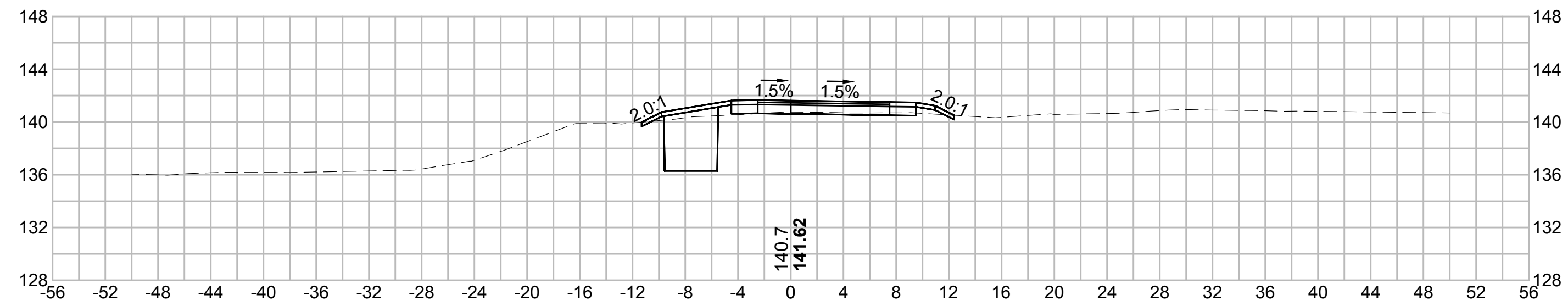
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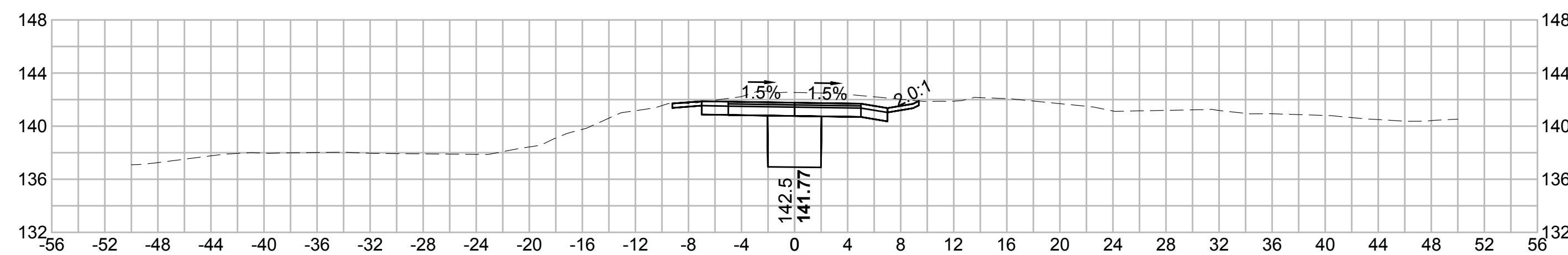
594+00



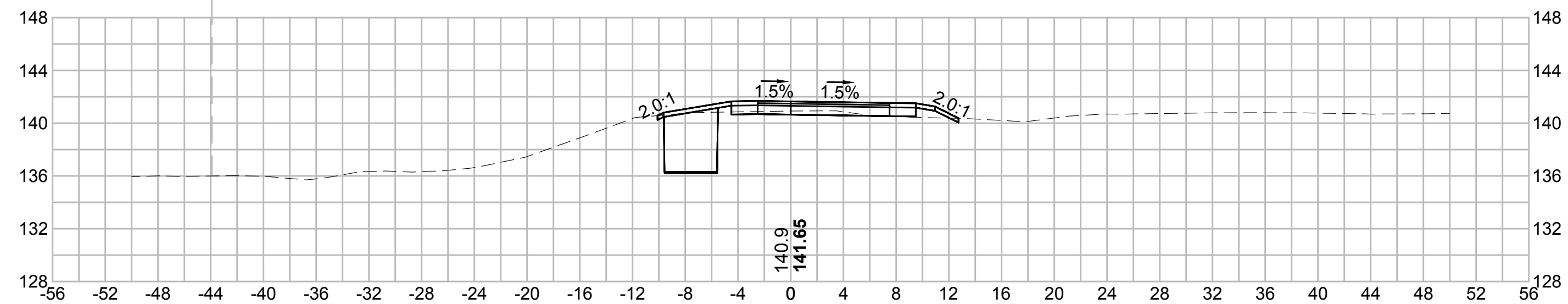
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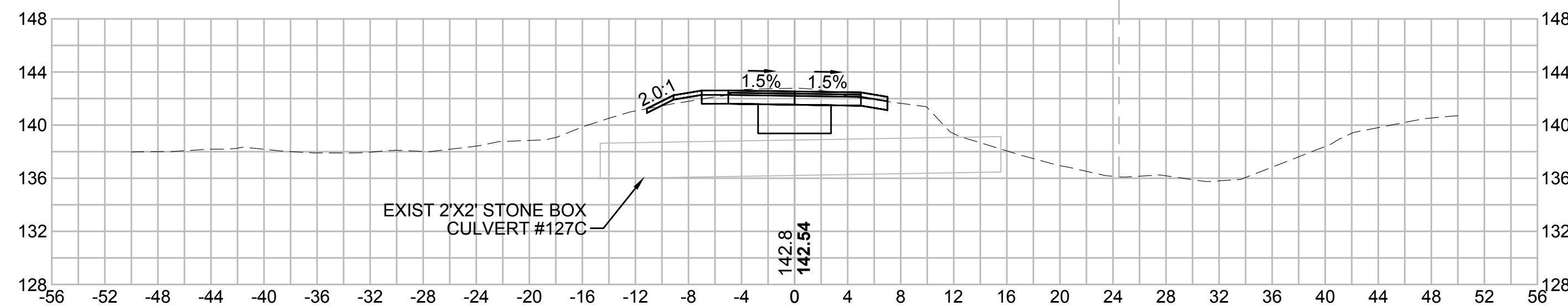
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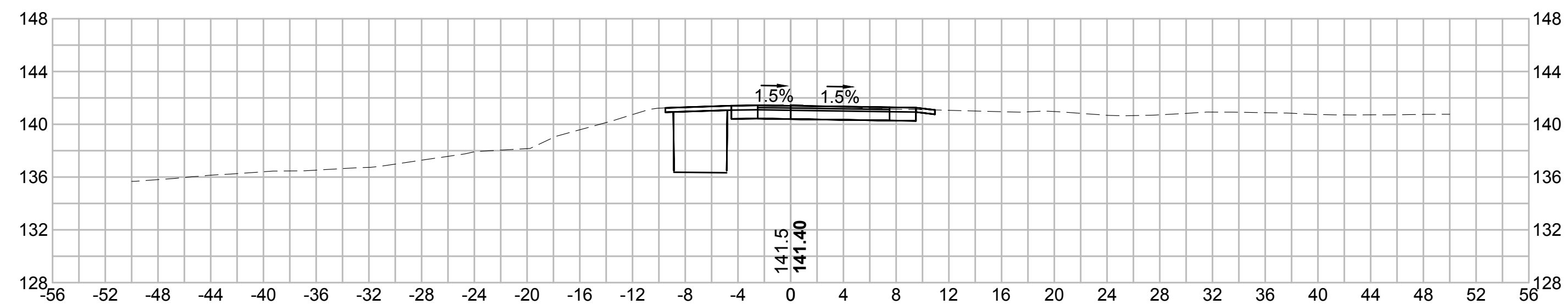
595+00



593+18.03



594+50



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 318 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHECKED SK | APPROVED MES |
| DRAWING NO. | REV. | | | |

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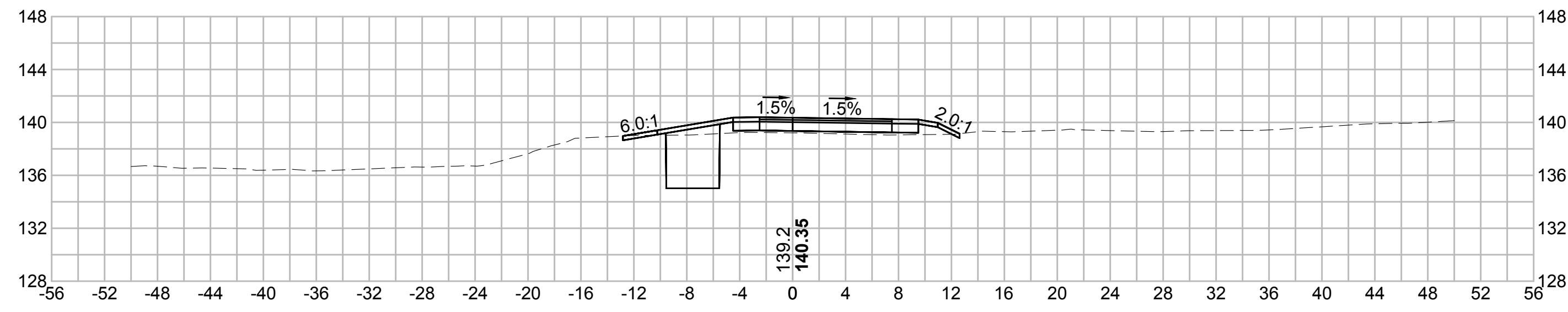
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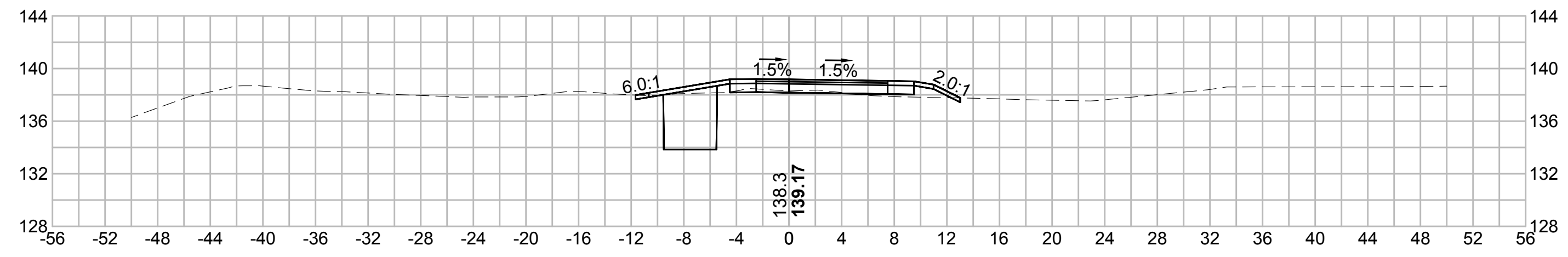
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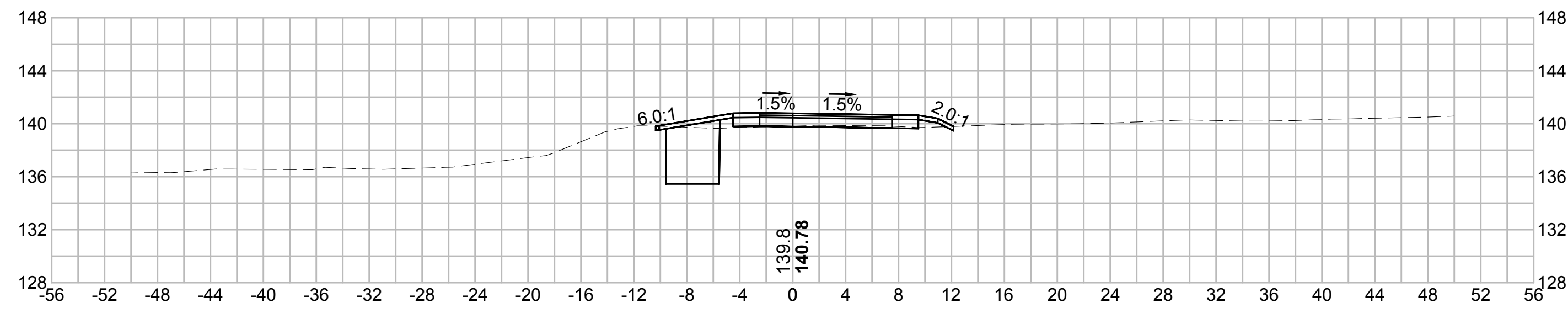
597+00



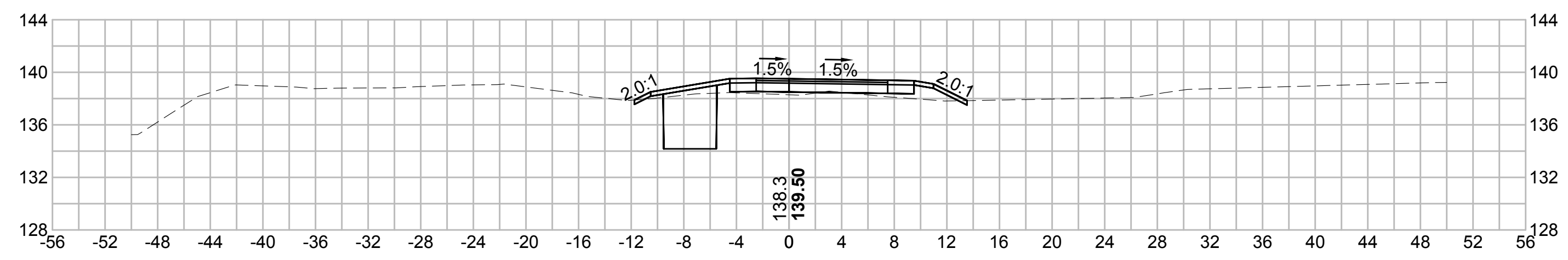
598+50



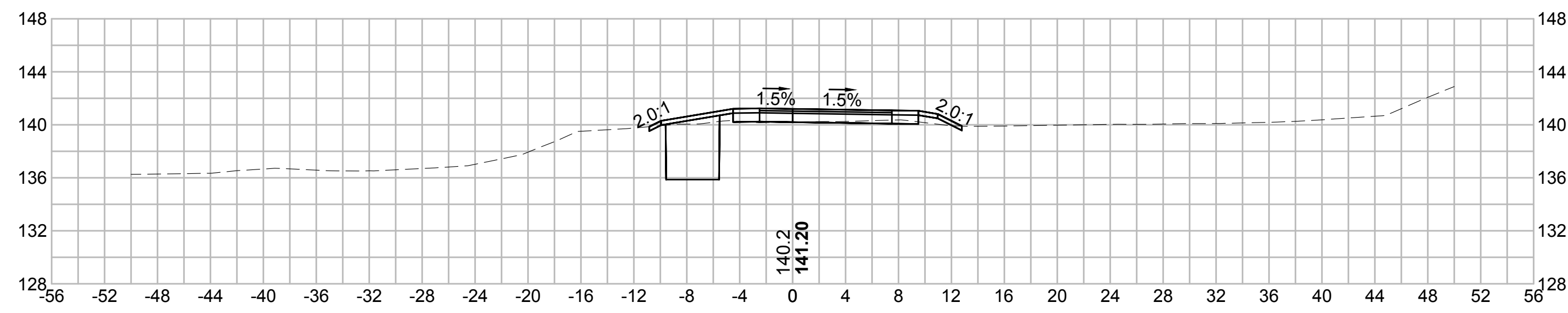
596+50



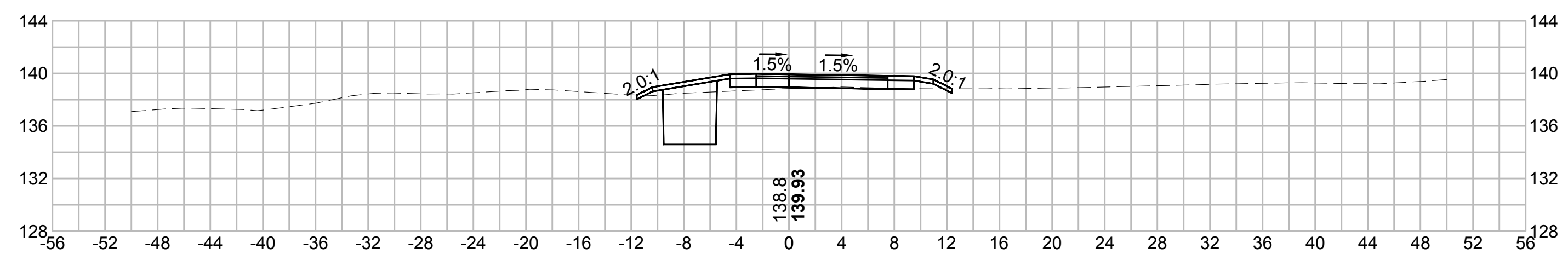
598+00



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| | REVISION | | | |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 319 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APP'R. MES |
| DRAWING NO. | REV. | | | |

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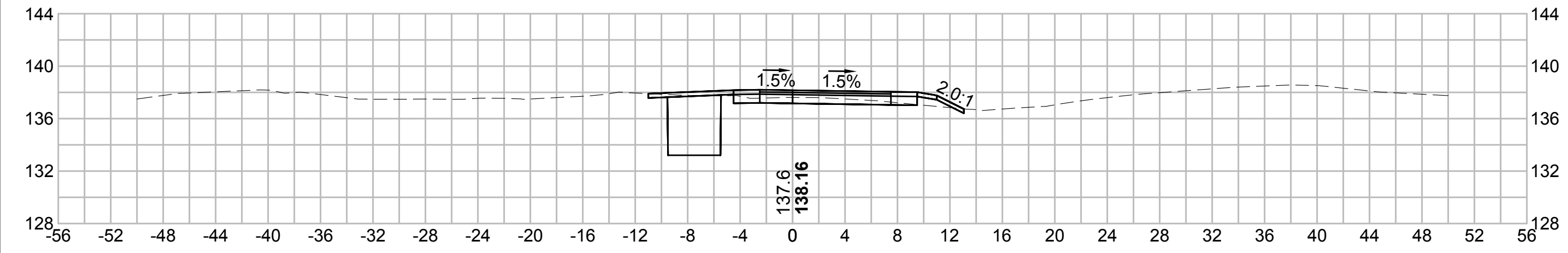
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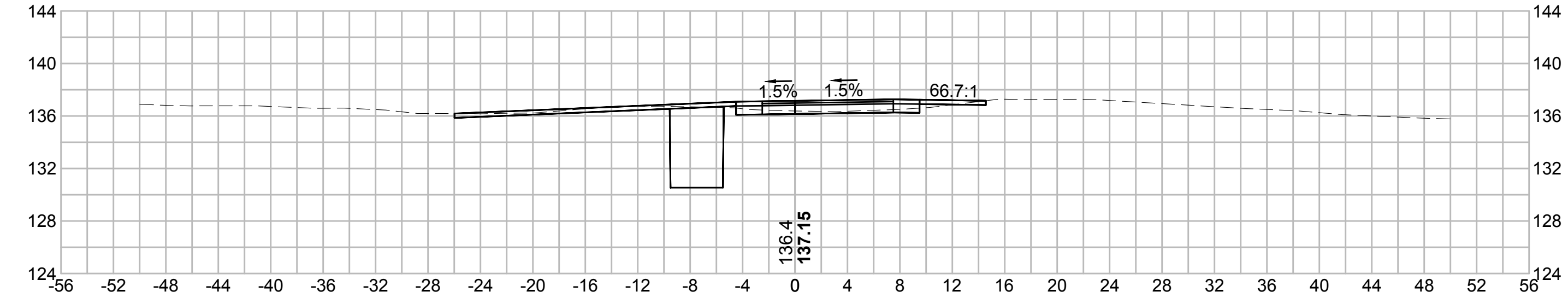
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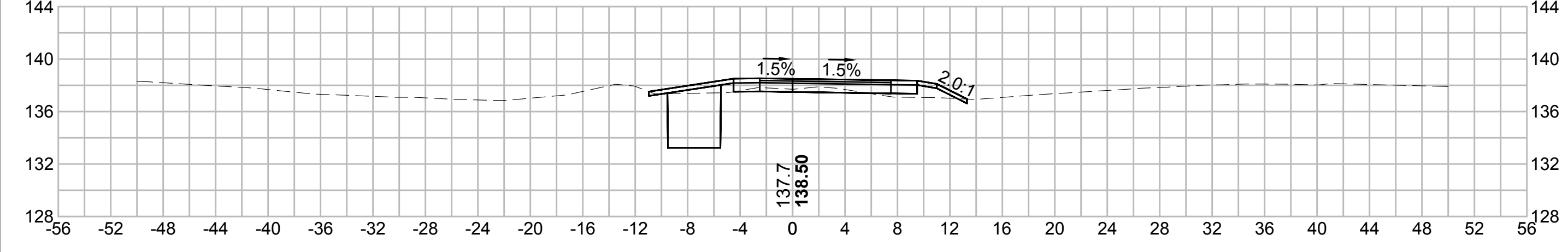
600+00



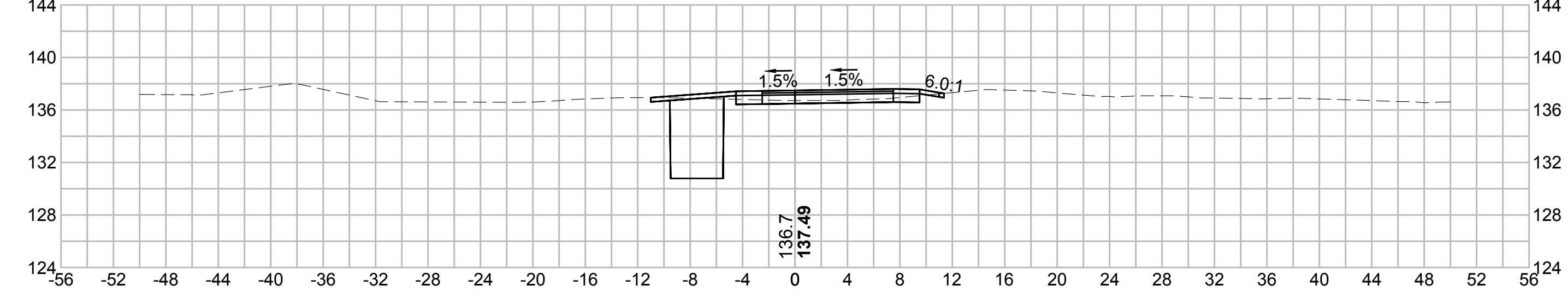
601+50



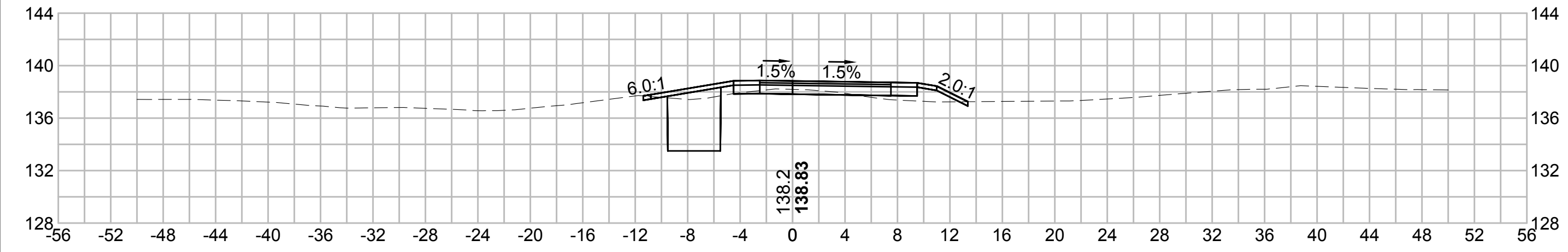
599+50



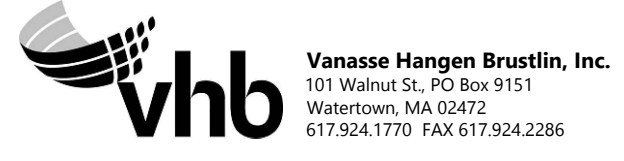
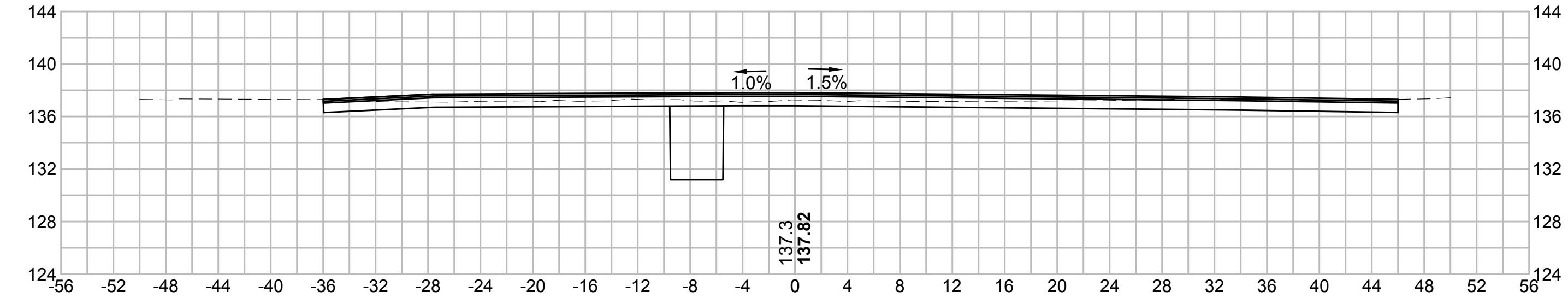
601+00



599+00

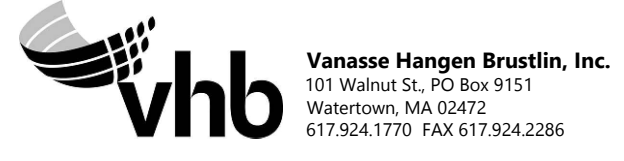
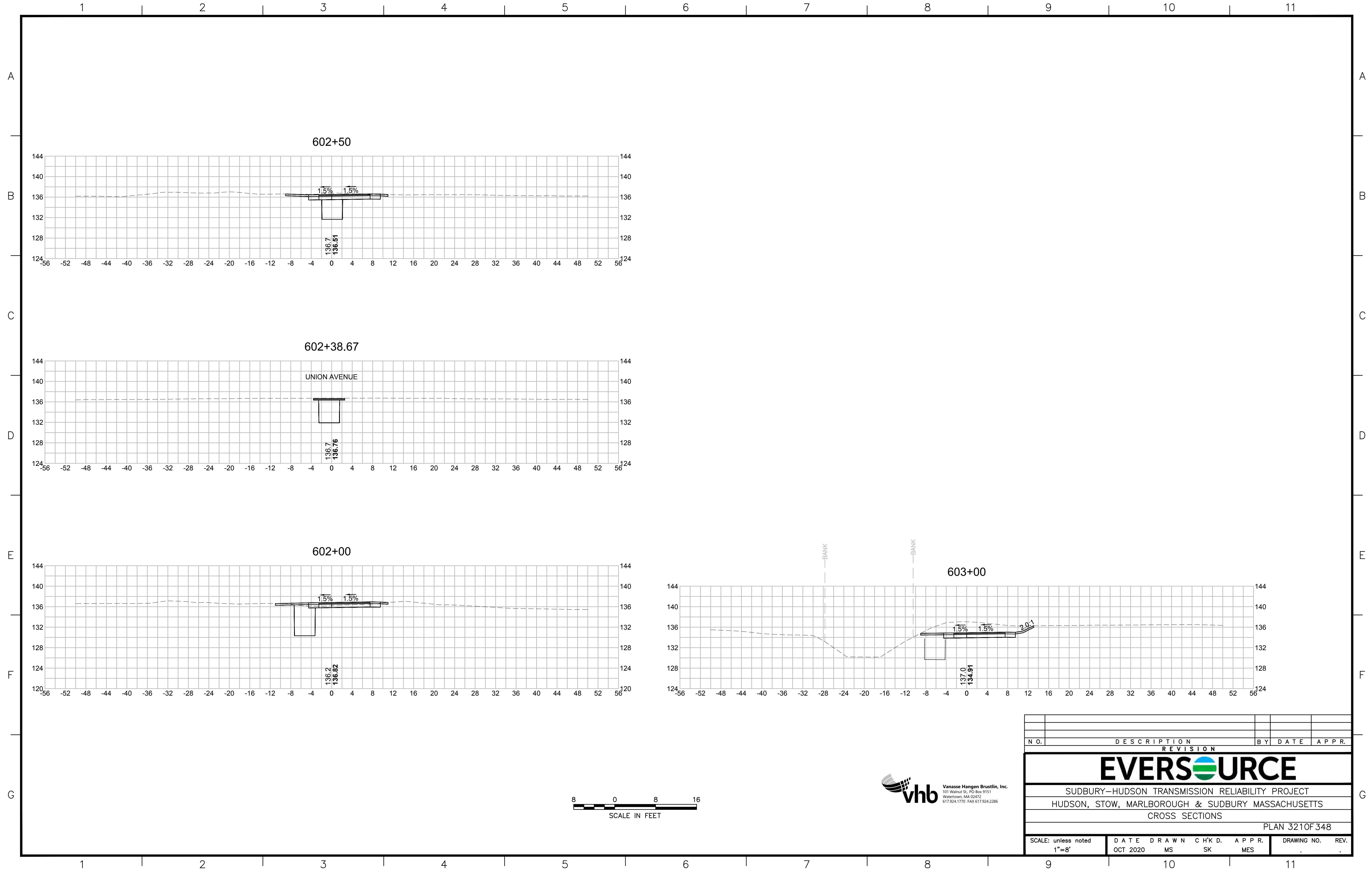


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| NO. | | DESCRIPTION | | BY | | DATE | | APPR. | |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | | | | |
| CROSS SECTIONS | | | | | | | | | |
| PLAN 320 OF 348 | | | | | | | | | |
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| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
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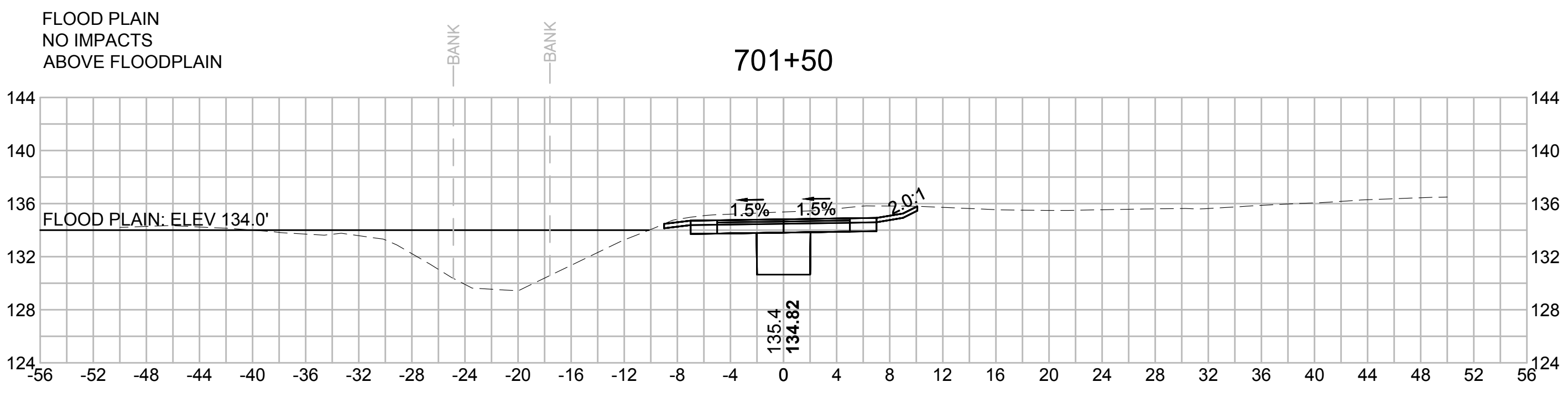
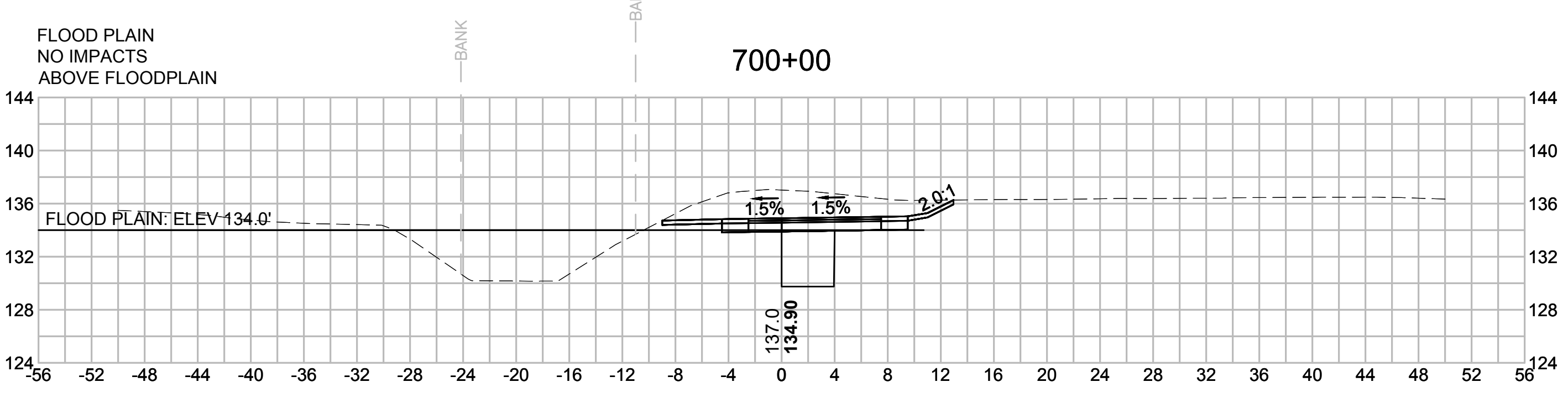
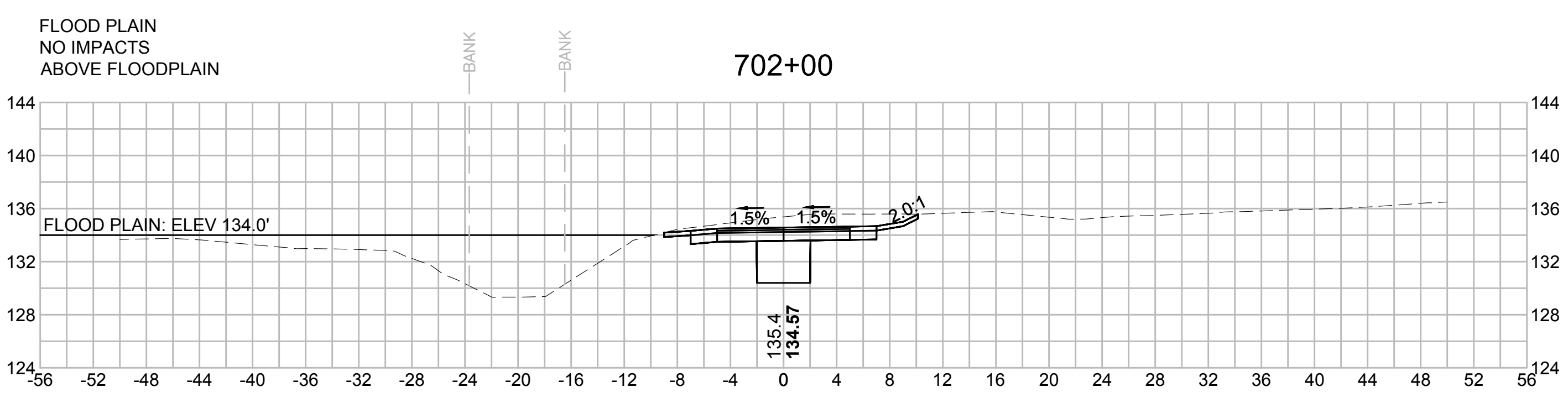
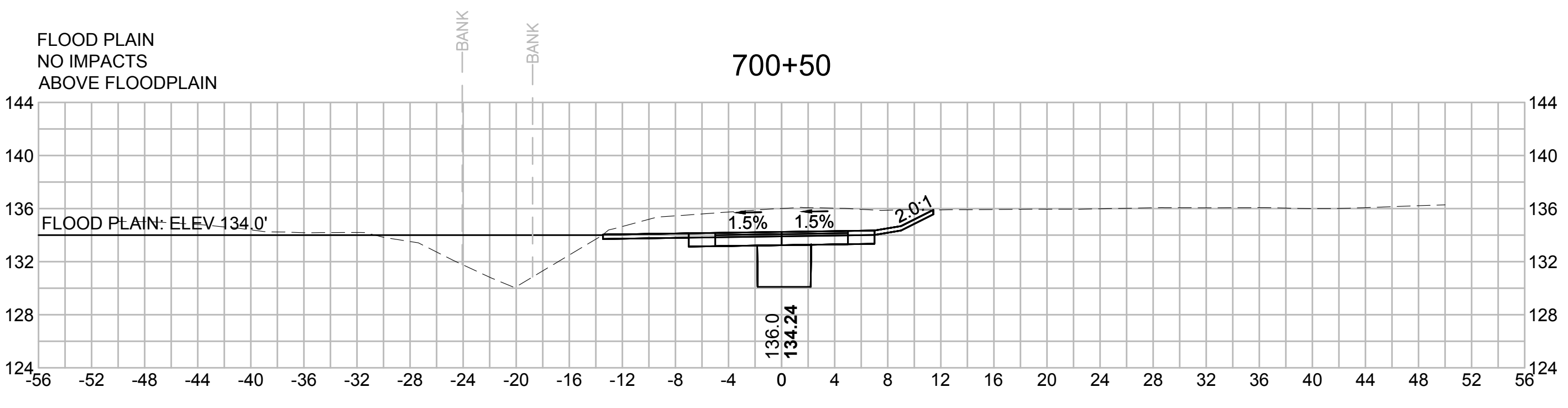
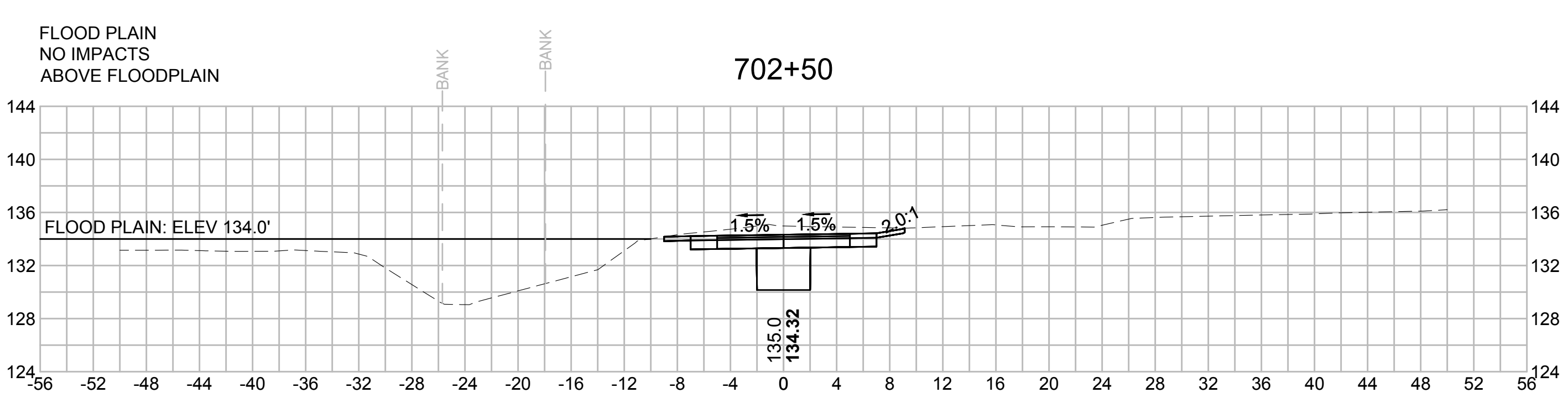
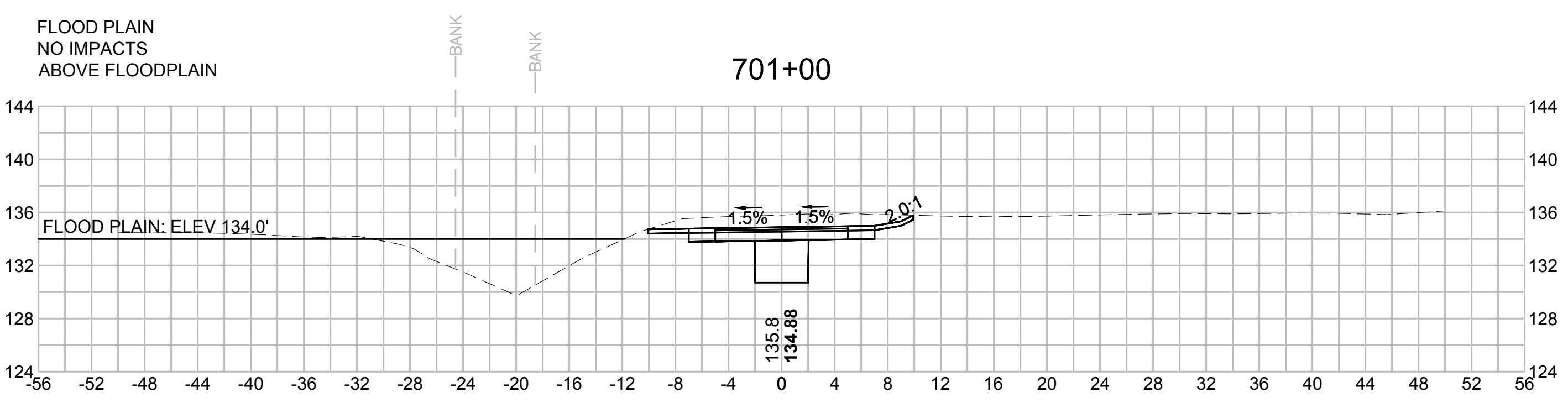
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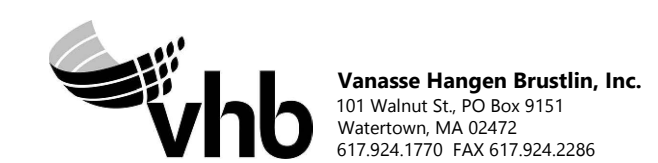
BLSF CROSSING STA 700 TO STA 740 - FEMA ZONE AE - TRIBUTARY TO HOP BROOK AND HOP BROOK
FEMA ELEVATION VARIES

FILL:

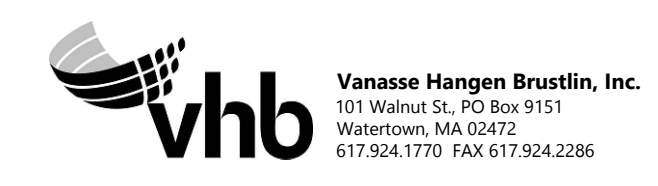
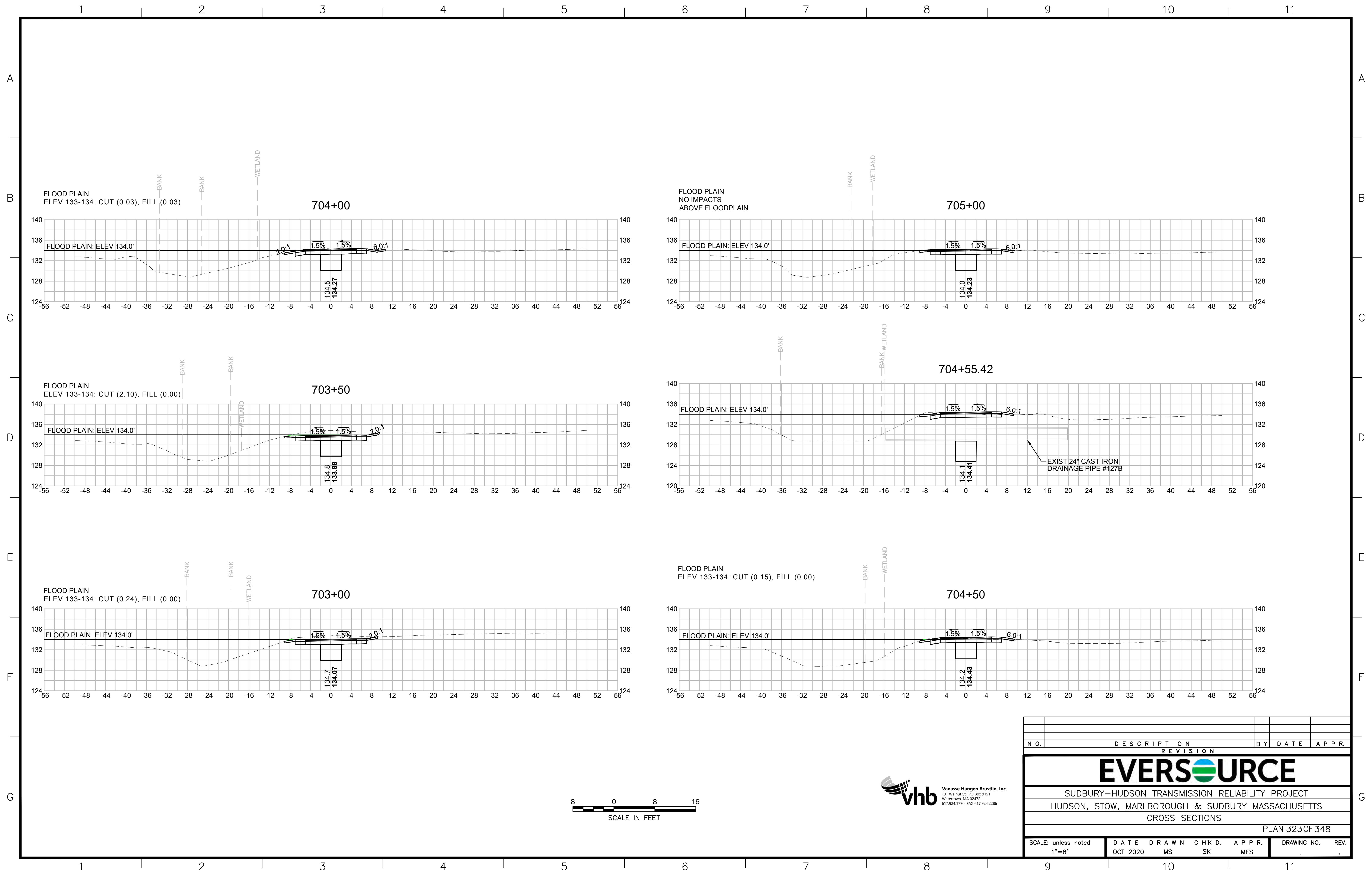
- 133'-134': 17.00 CY
- 132'-133': 16.13 CY
- 131'-132': 1.70 CY
- 126'-127': 14.96 CY
- 125'-126': 13.81 CY
- 124'-125': 1.37 CY
- 123'-124': 0.00 CY

CUT:

- 133'-134': 46.91 CY
- 132'-133': 20.22 CY
- 131'-132': 5.50 CY
- 126'-127': 17.00 CY
- 125'-126': 67.04 CY
- 124'-125': 6.11 CY
- 123'-124': 0.43 CY



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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 322 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 323 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

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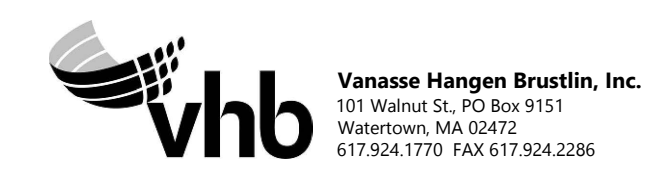
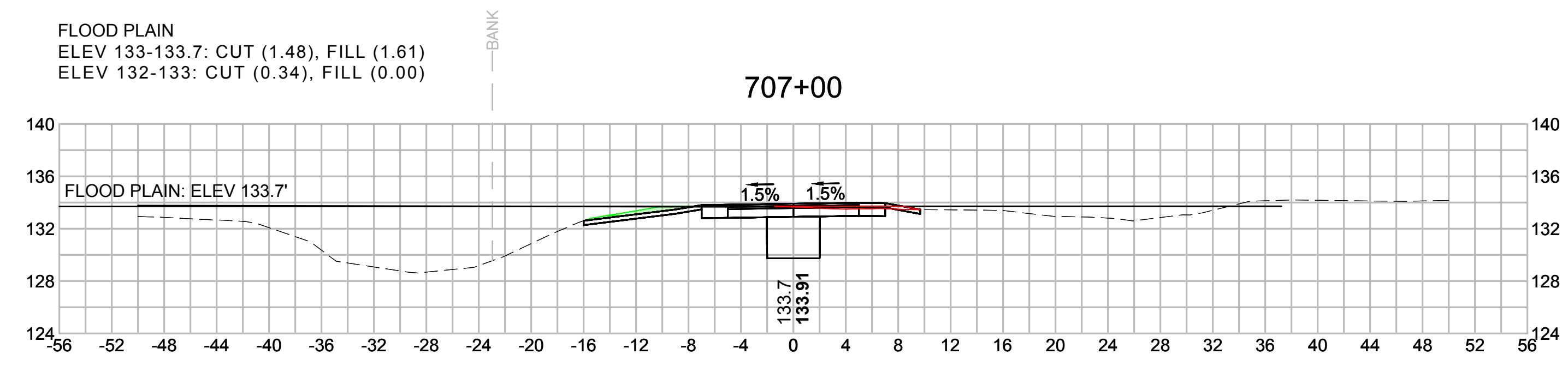
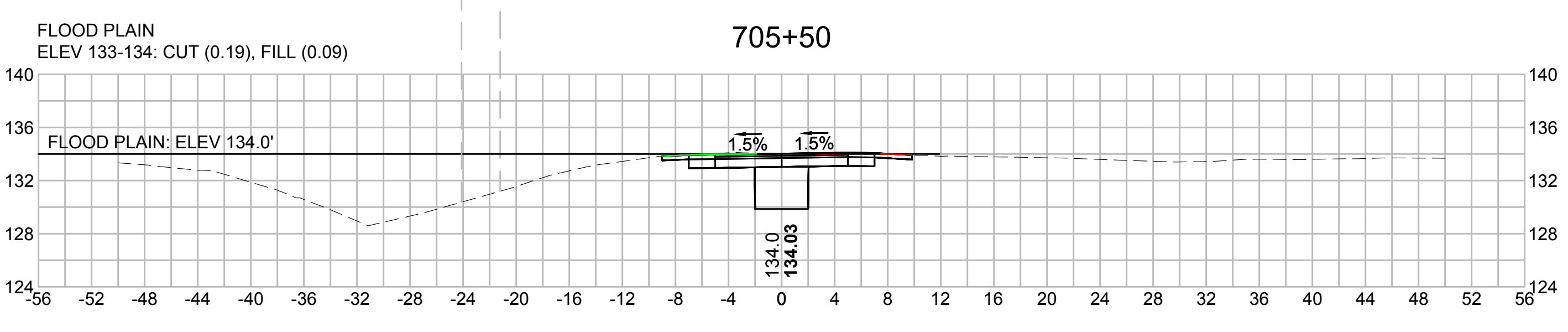
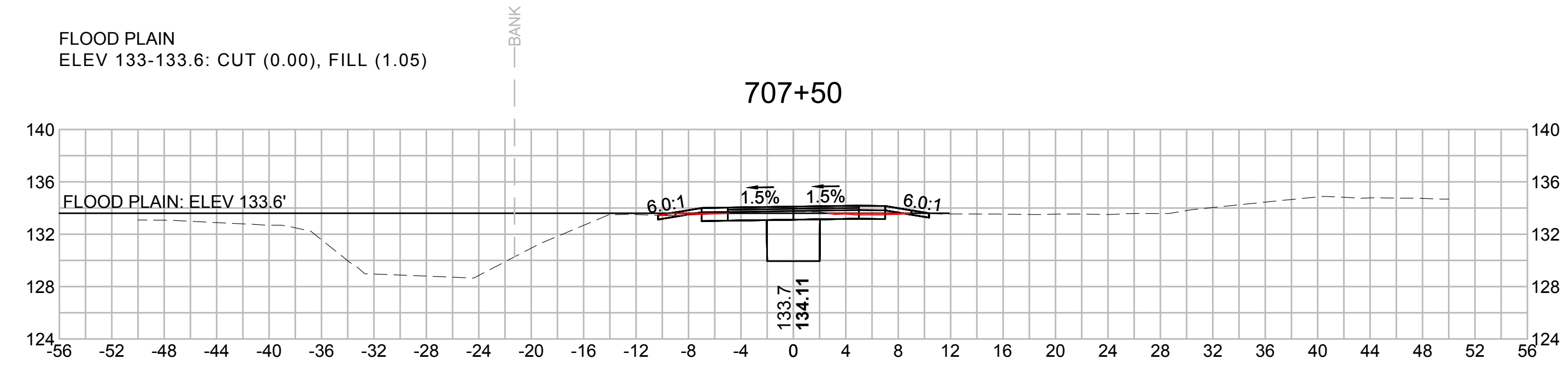
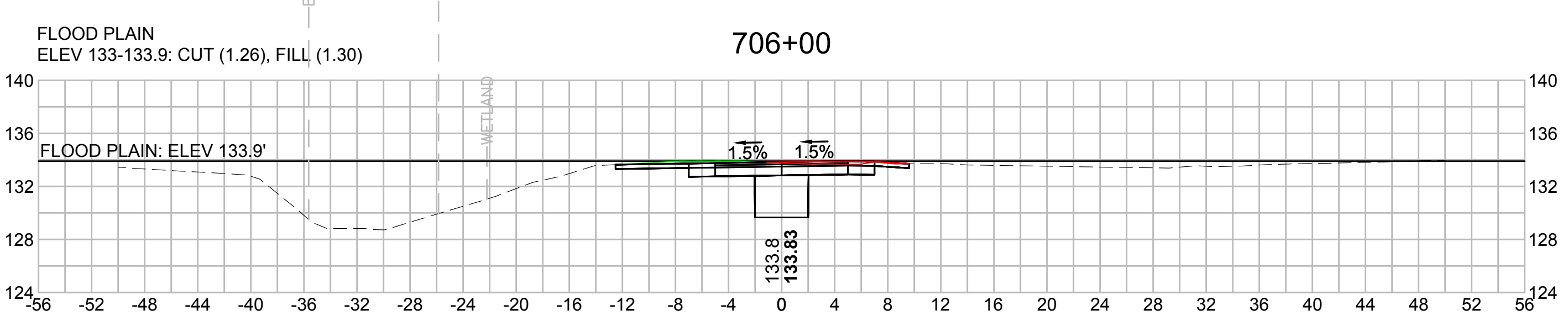
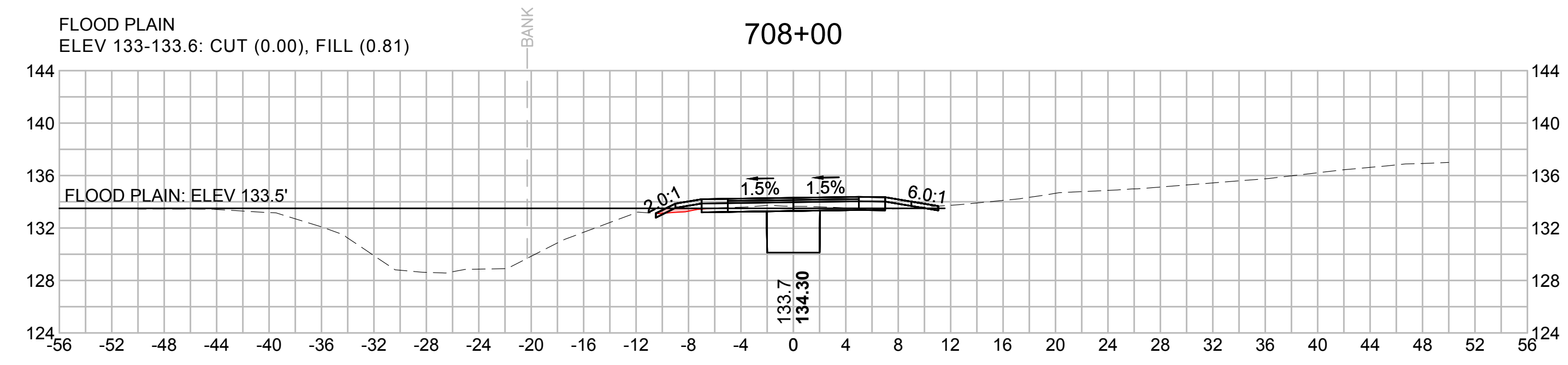
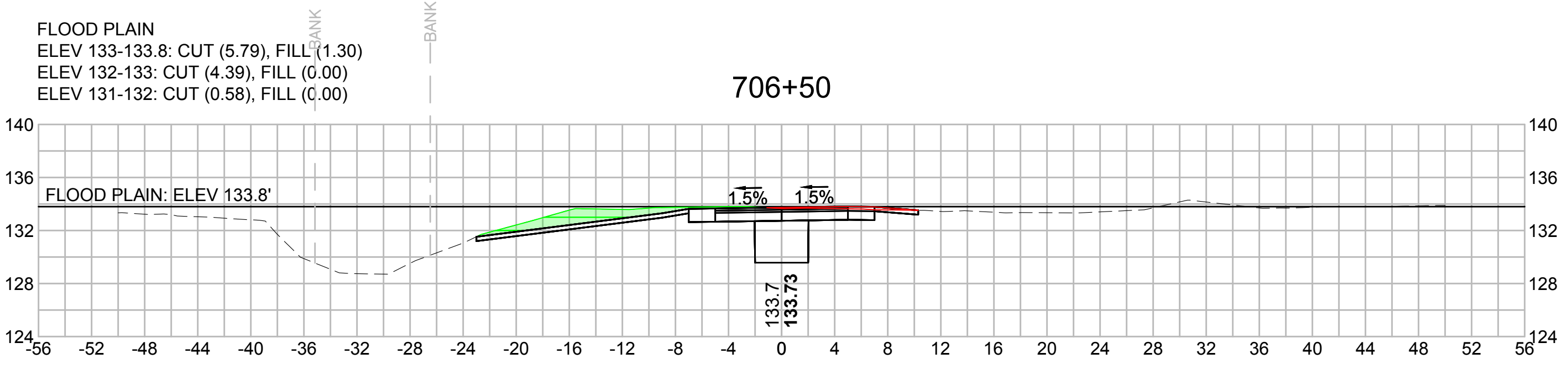
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS

PLAN 324 OF 348

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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. | REV. |
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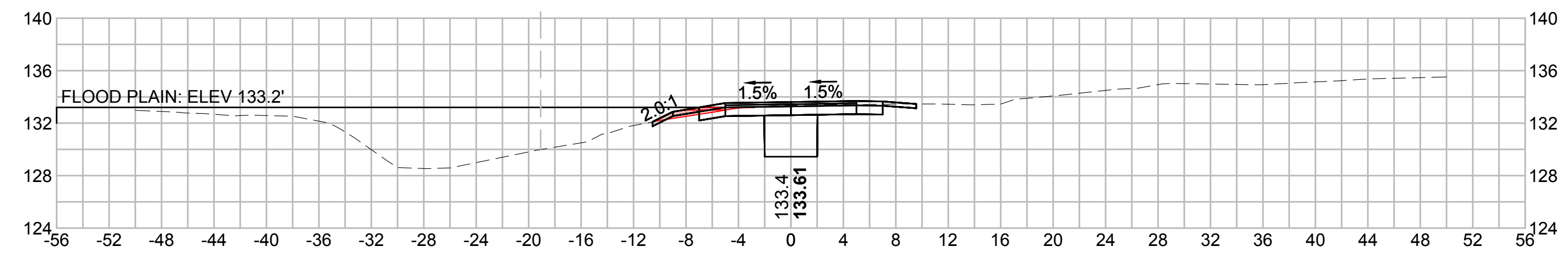
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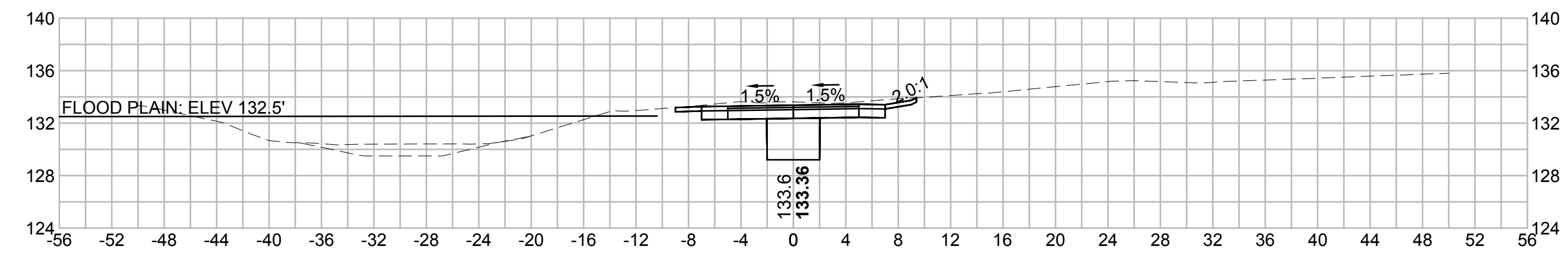
FLOOD PLAIN
 ELEV 133-133.6: CUT (0.00), FILL (0.68)
 ELEV 132-133: CUT (0.00), FILL (1.65)
 ELEV 131-132: CUT (0.00), FILL (####)

709+50



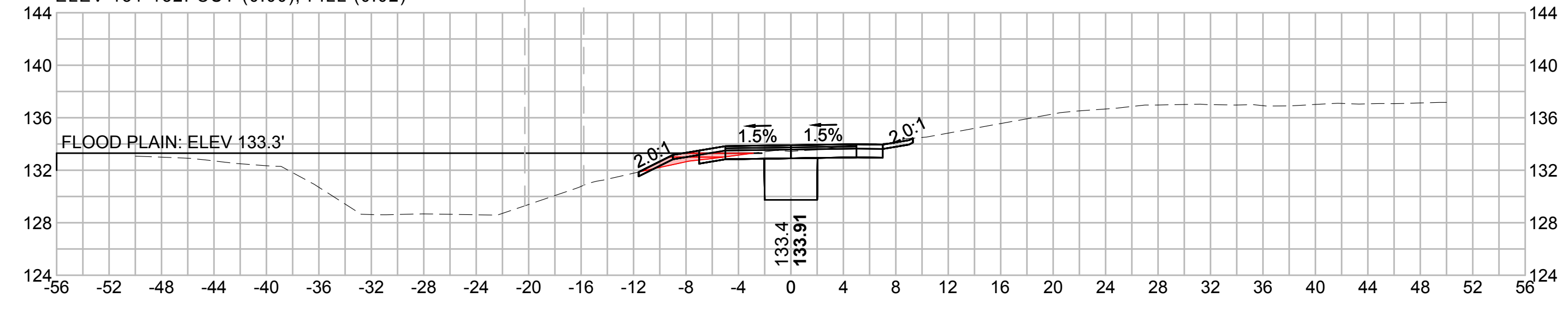
FLOOD PLAIN
 NO IMPACTS
 ABOVE FLOODPLAIN

710+75



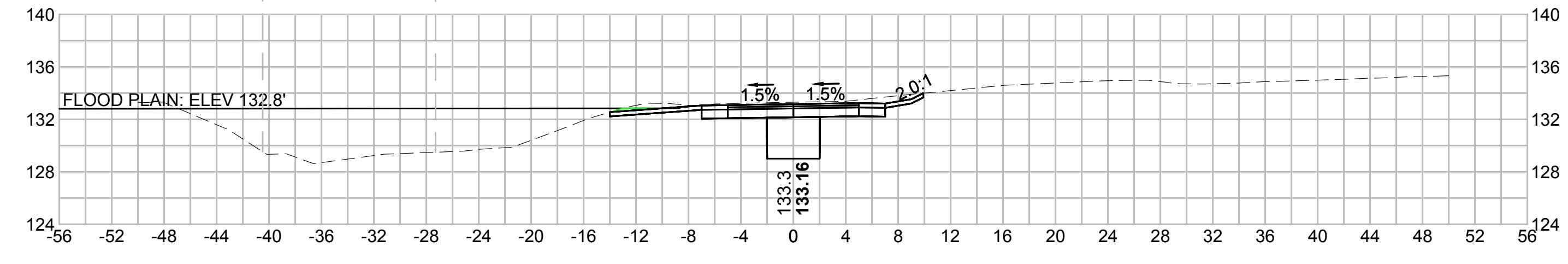
FLOOD PLAIN
 ELEV 133-133.6: CUT (0.00), FILL (1.47)
 ELEV 132-133: CUT (0.00), FILL (1.85)
 ELEV 131-132: CUT (0.00), FILL (0.02)

709+00



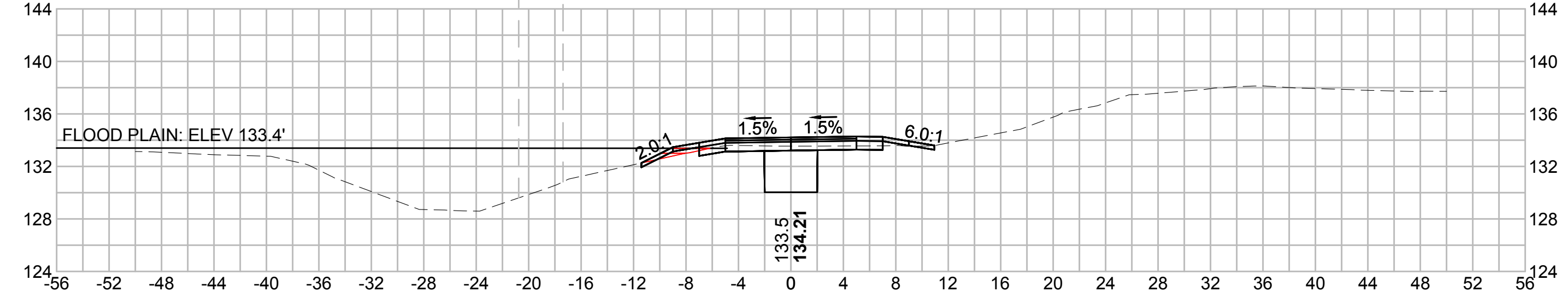
FLOOD PLAIN
 ELEV 132-132.8: CUT (0.44), FILL (0.00)

710+50



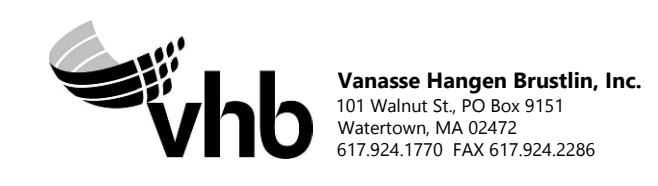
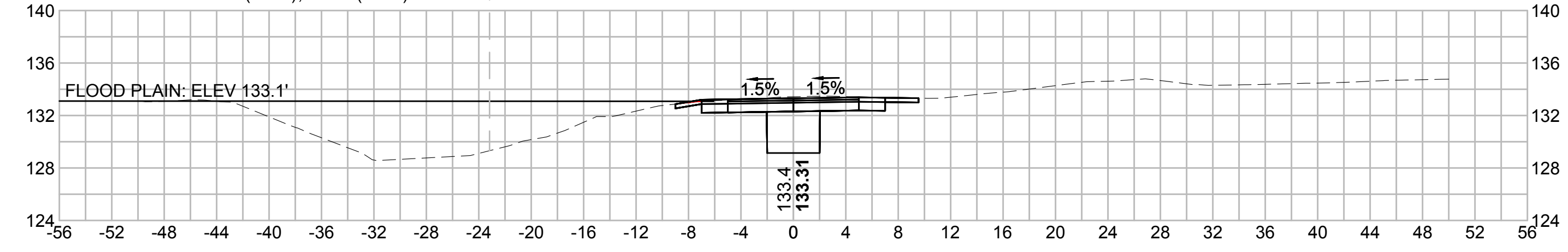
FLOOD PLAIN
 ELEV 133-133.6: CUT (0.00), FILL (0.96)
 ELEV 132-133: CUT (0.00), FILL (0.68)

708+50

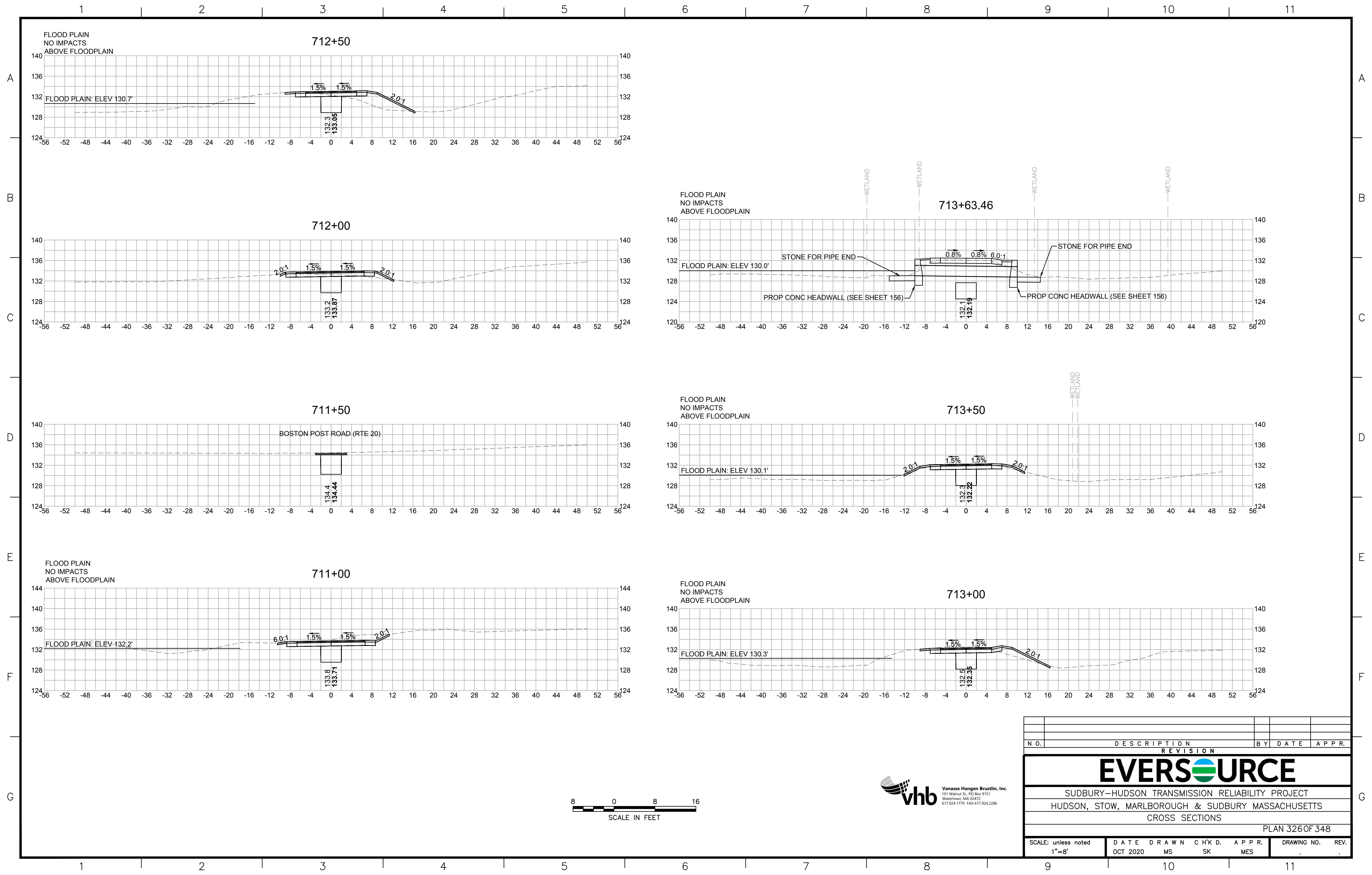


FLOOD PLAIN
 ELEV 133-133.1: CUT (0.00), FILL (0.04)
 ELEV 132-133: CUT (0.00), FILL (0.03)

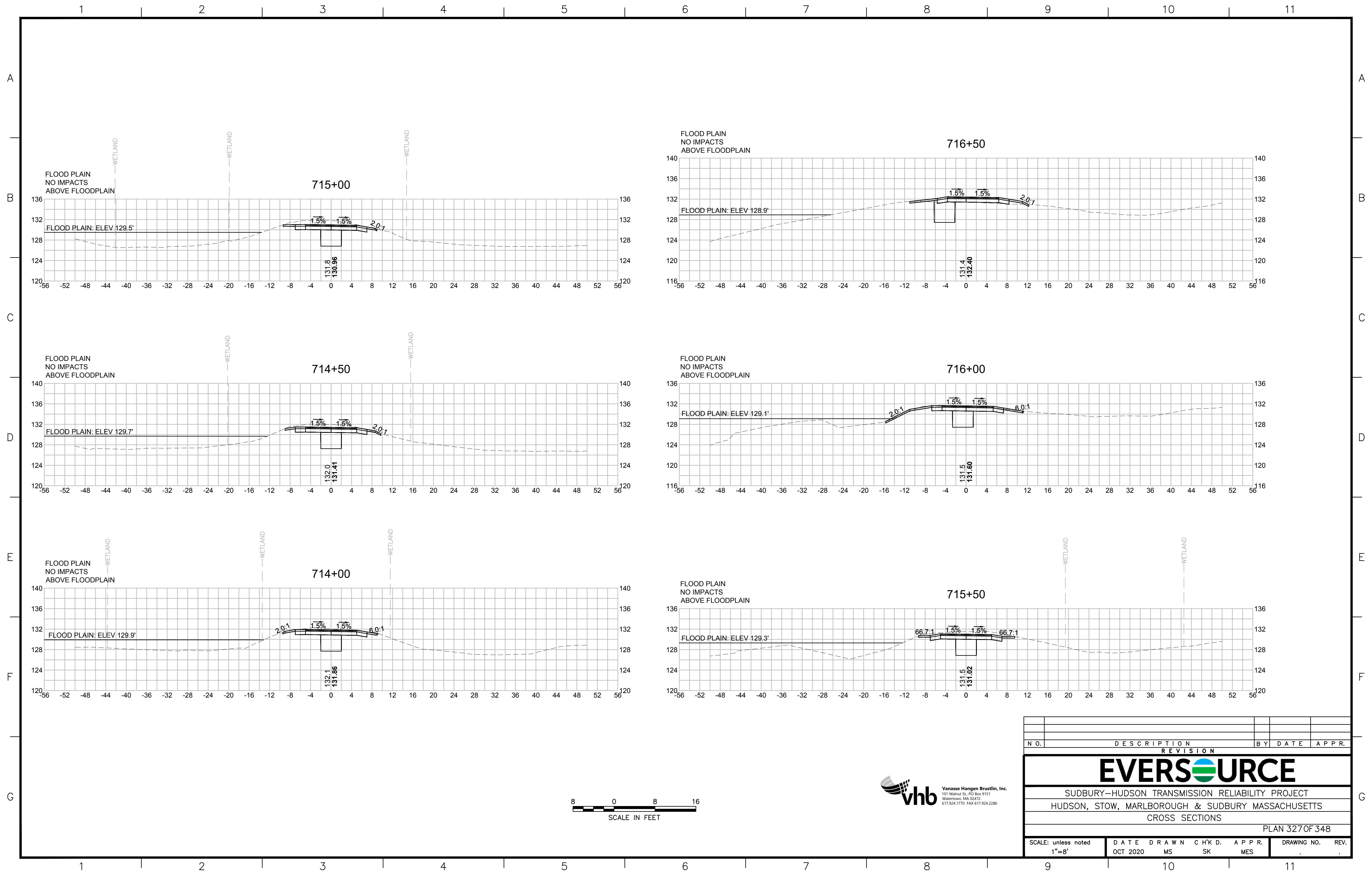
710+00



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| REVISION | | | | |
| EVERSOURCE | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 325 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
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| REVISION | | | | | | |
| EVERSOURCE | | | | | | |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | | | |
| CROSS SECTIONS | | | | | | |
| PLAN 326 OF 348 | | | | | | |
| SCALE: unless noted 1"=8' | DATE | DRAWN | CHK'D | APPR. | DRAWING NO. | REV. |
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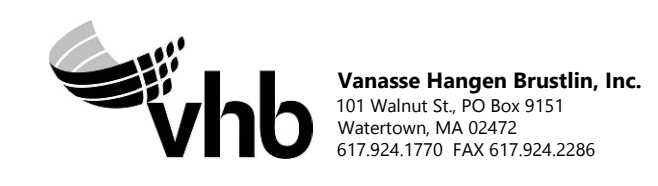
| N O. | DESCRIPTION | BY | DATE | APPR. |
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EVERSOURCE

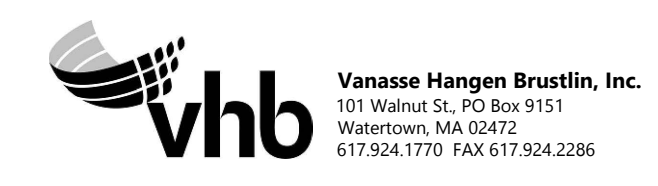
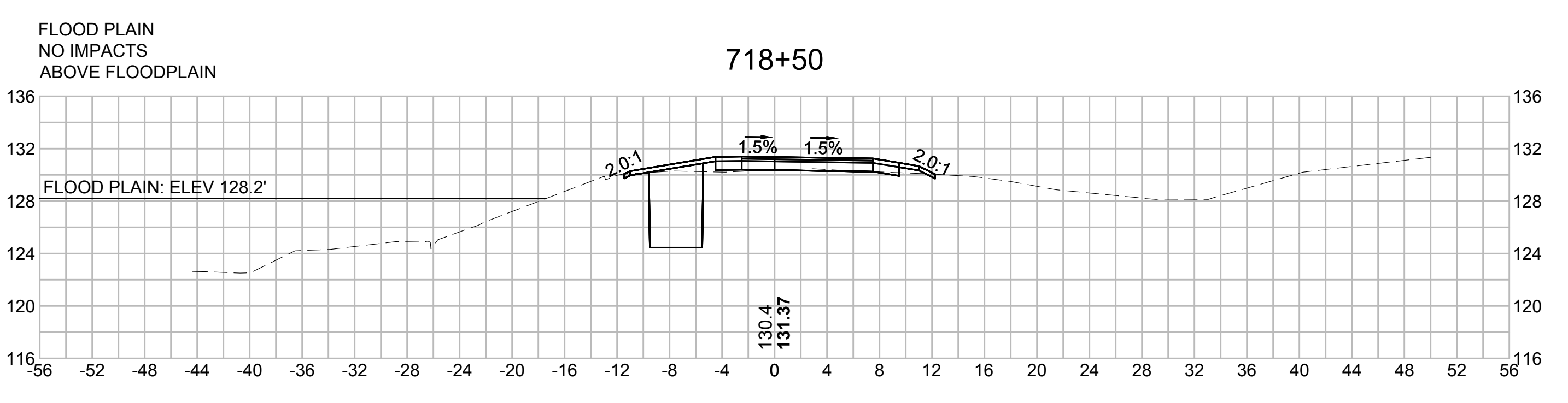
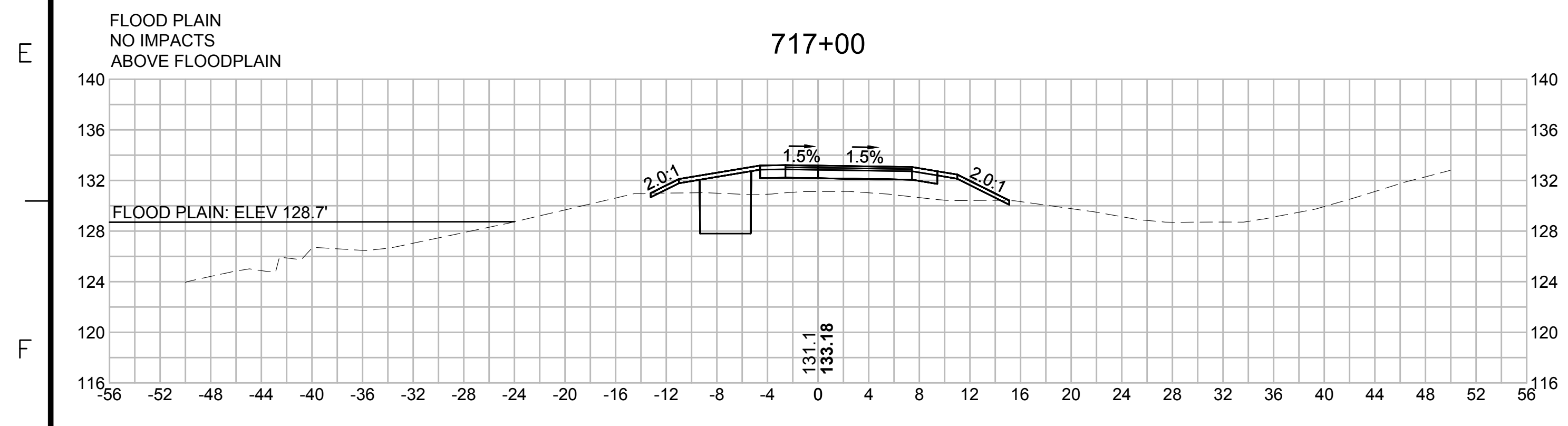
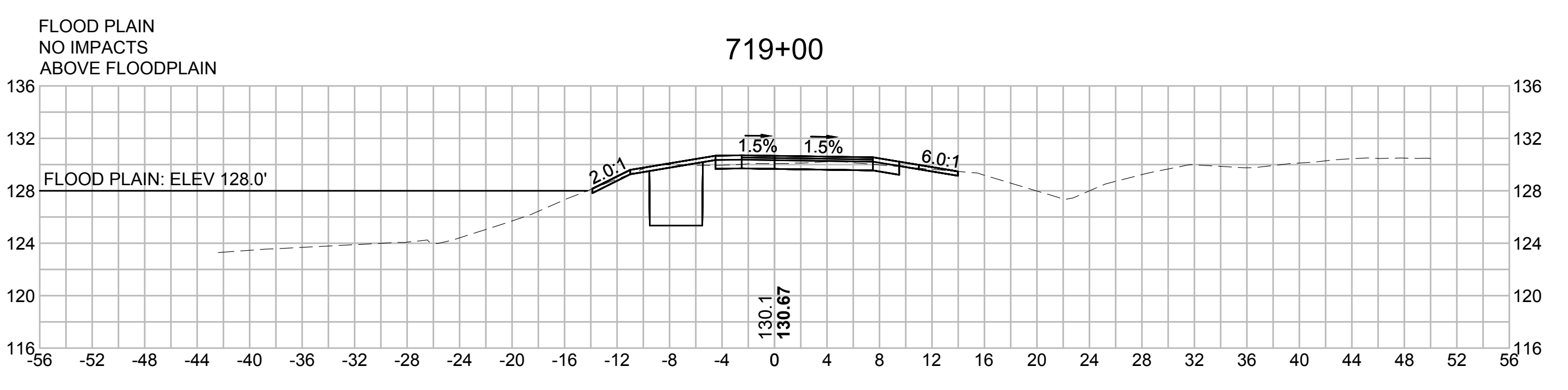
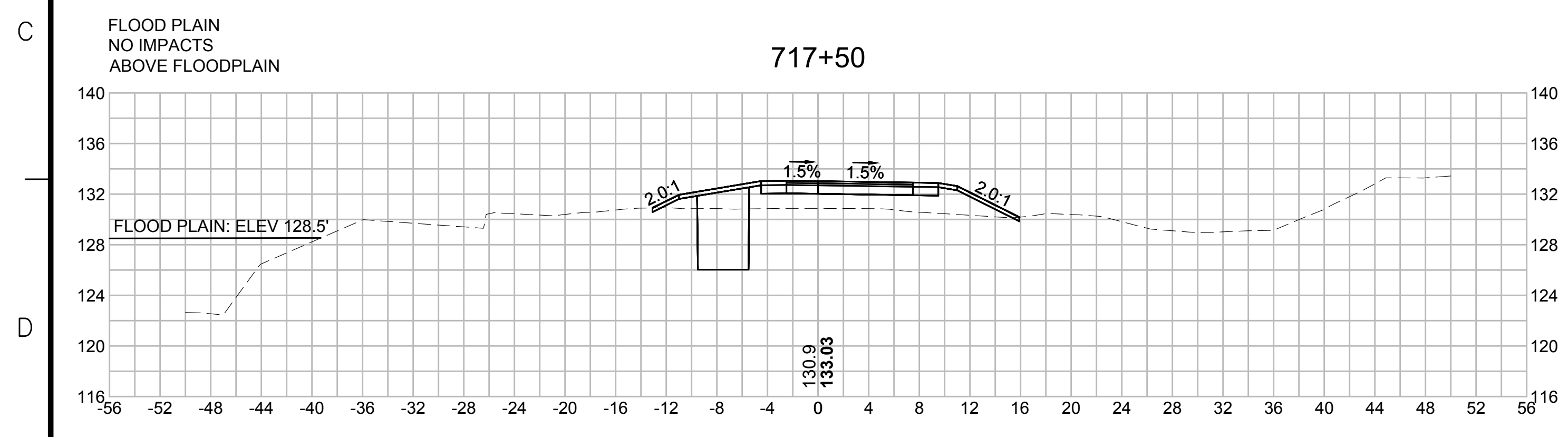
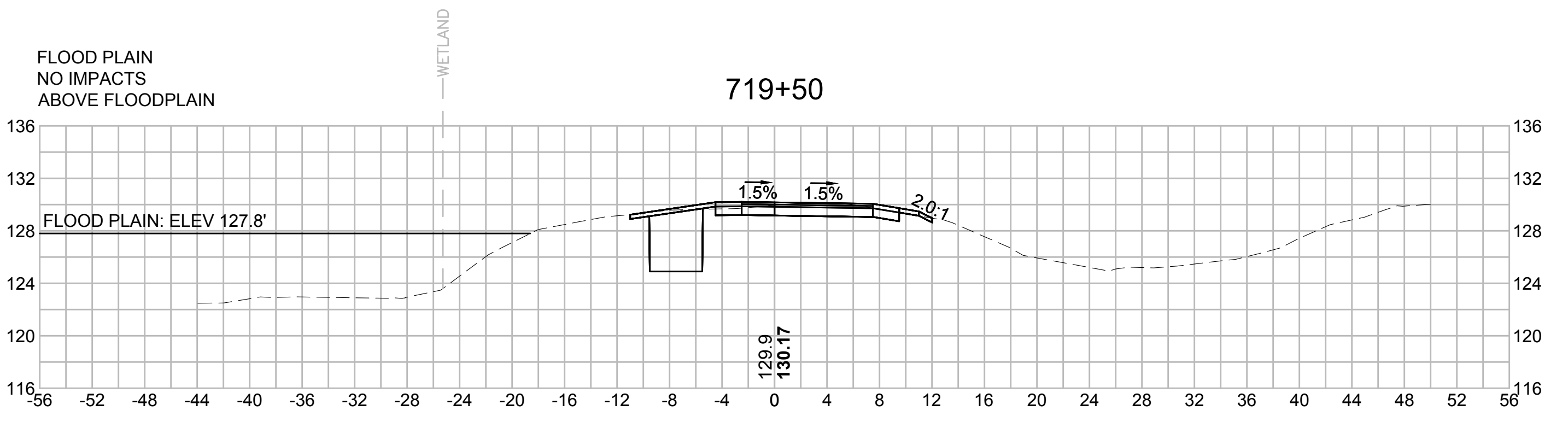
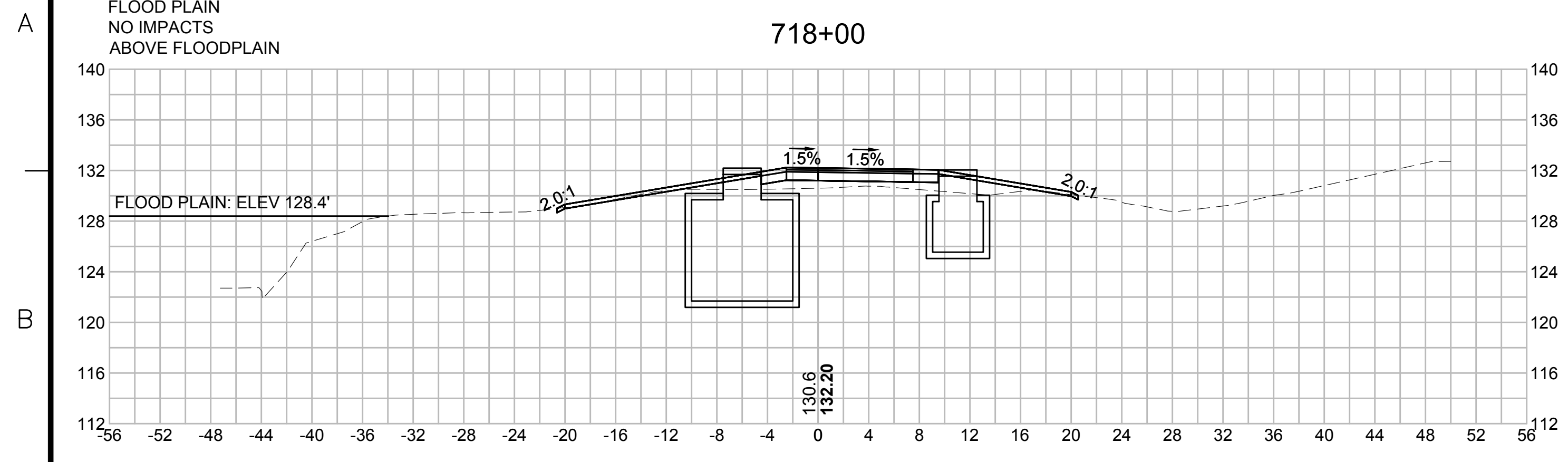
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS

PLAN 327 OF 348

| | | | | | | |
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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. | REV. |
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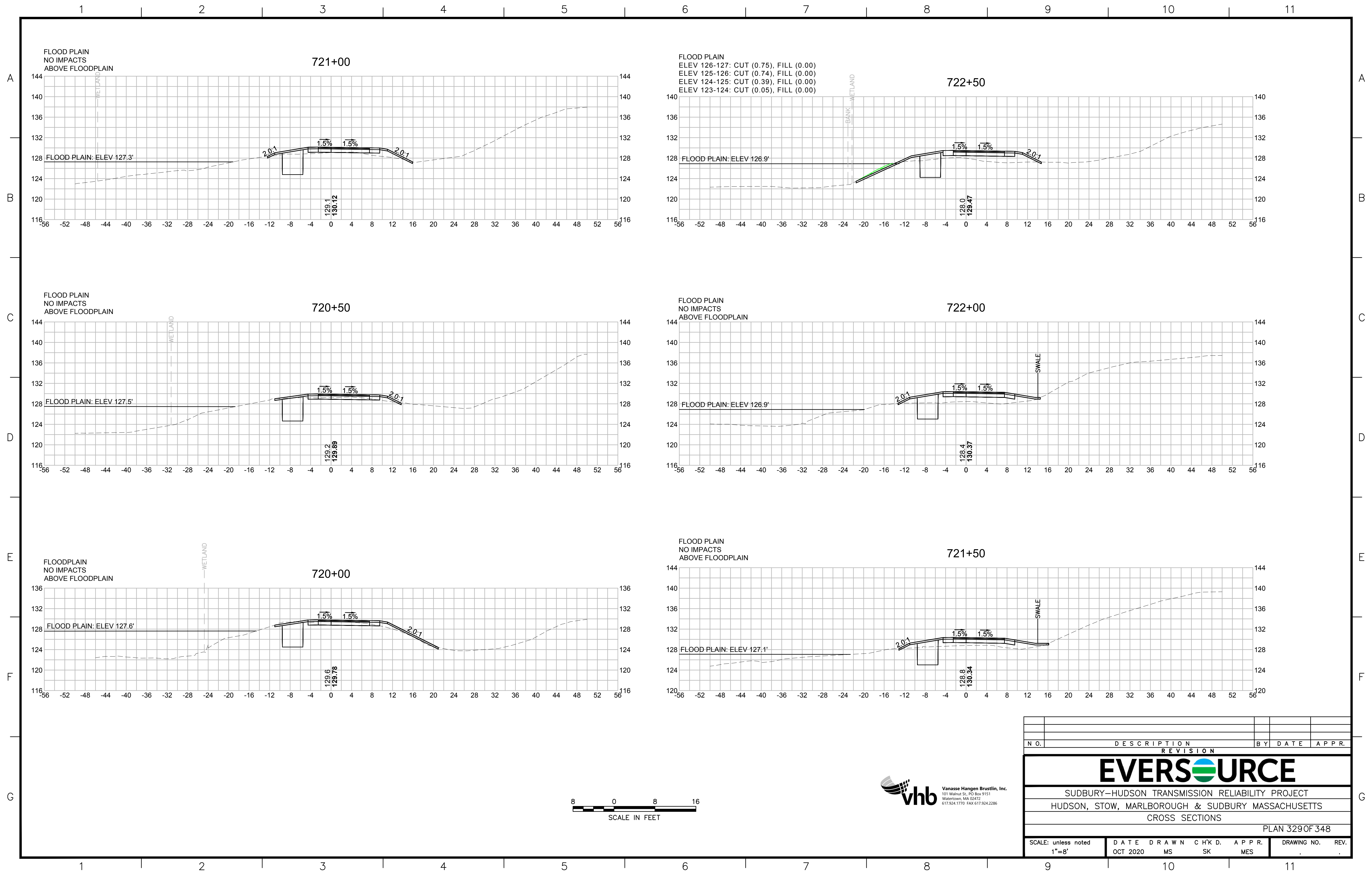


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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
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| PLAN 328 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
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1 2 3 4 5 6 7 8 9 10 11



FLOOD PLAIN
NO IMPACTS
ABOVE FLOODPLAIN

ELEV 126-127: CUT (0.75), FILL (0.00)
ELEV 125-126: CUT (0.74), FILL (0.00)
ELEV 124-125: CUT (0.39), FILL (0.00)
ELEV 123-124: CUT (0.05), FILL (0.00)

FLOOD PLAIN
NO IMPACTS
ABOVE FLOODPLAIN

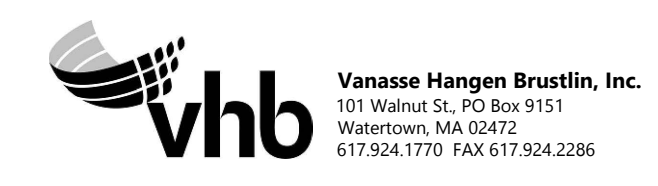
FLOOD PLAIN
NO IMPACTS
ABOVE FLOODPLAIN

FLOOD PLAIN
NO IMPACTS
ABOVE FLOODPLAIN

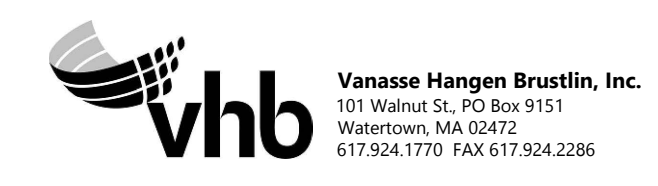
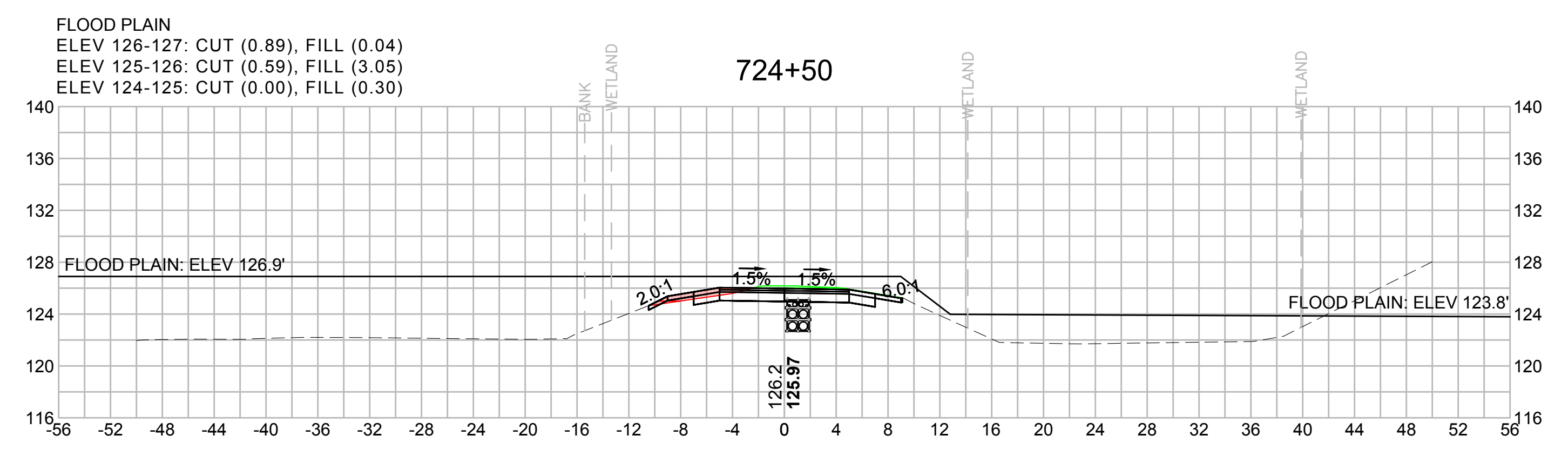
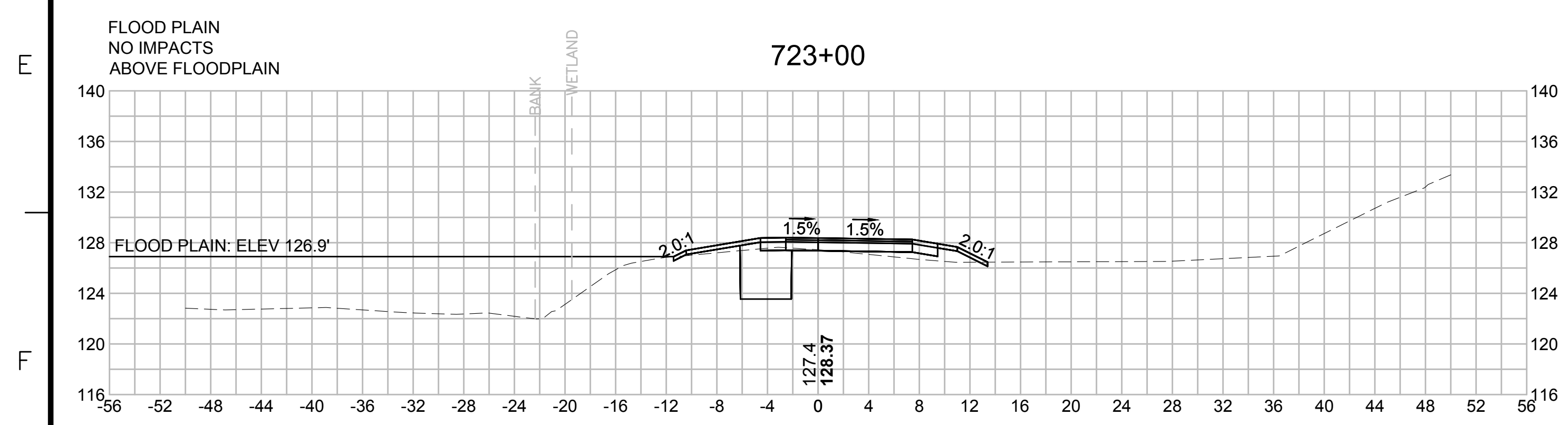
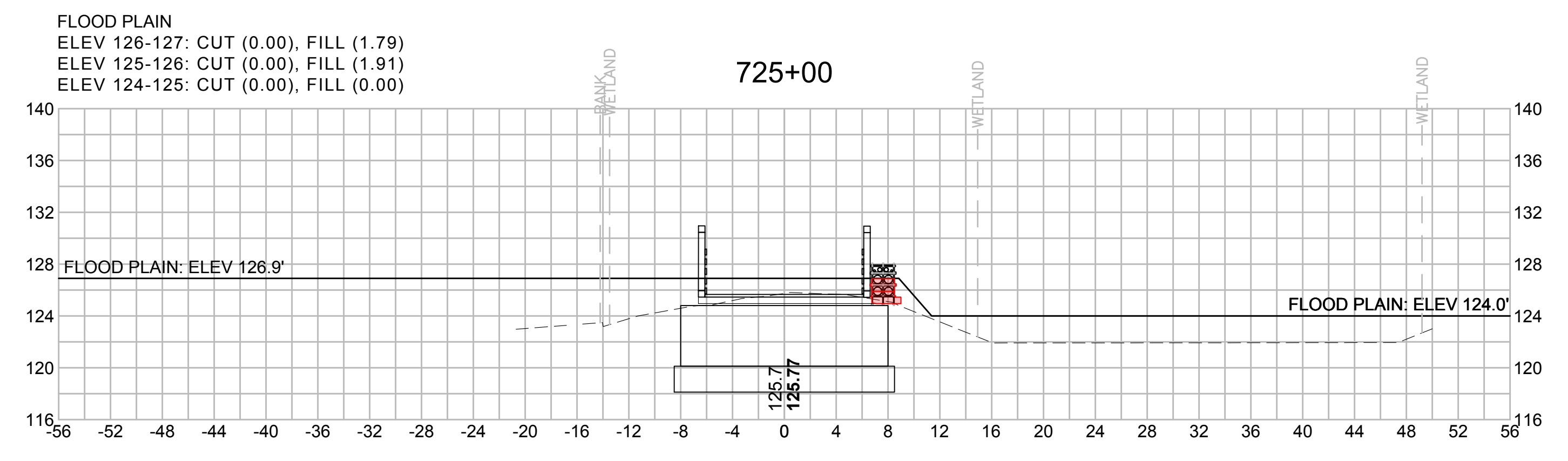
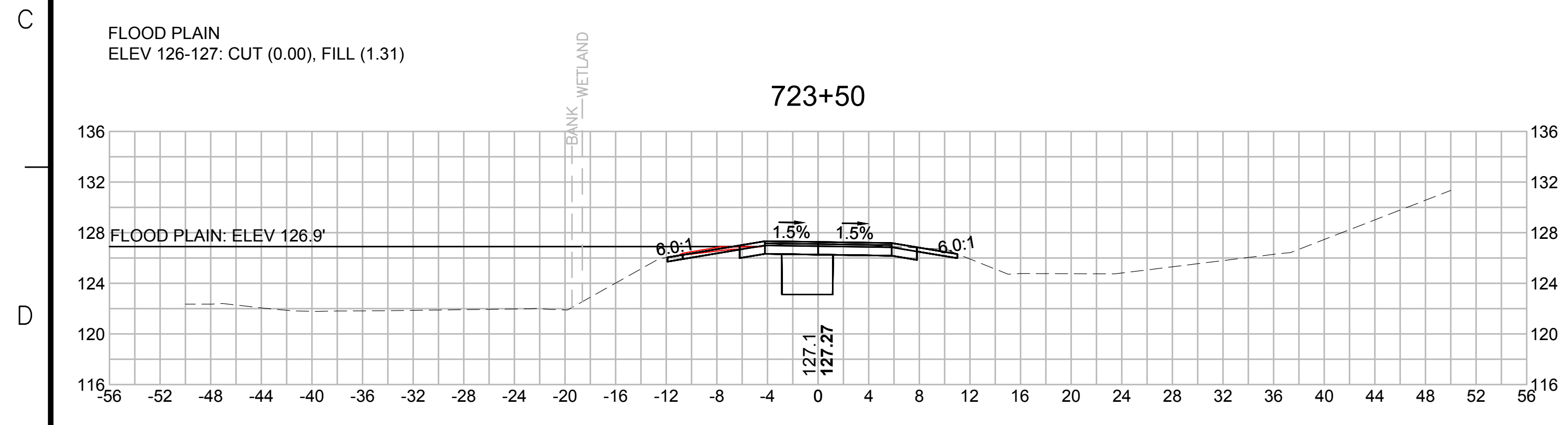
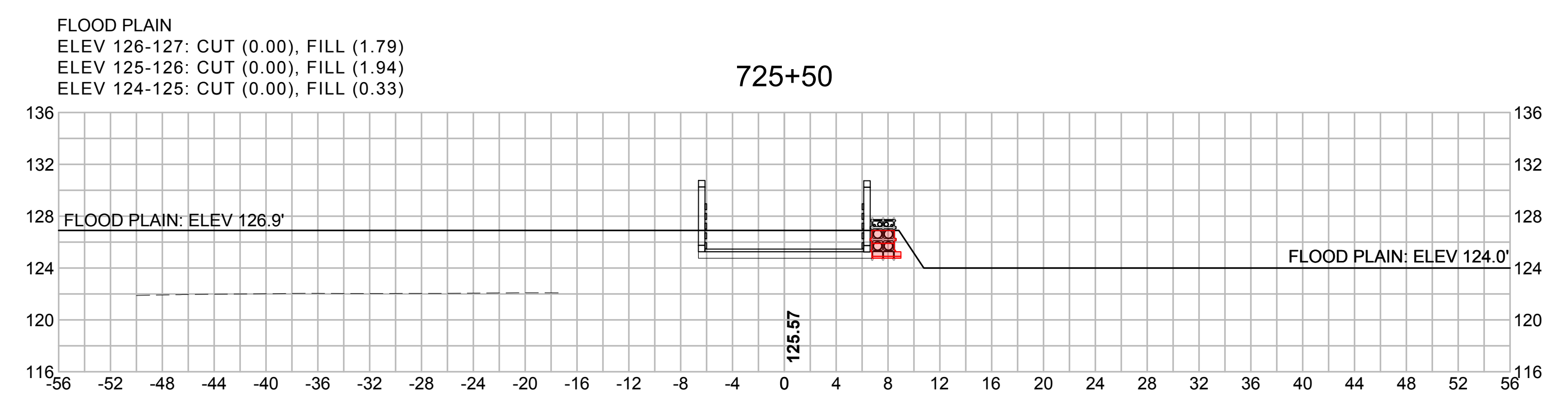
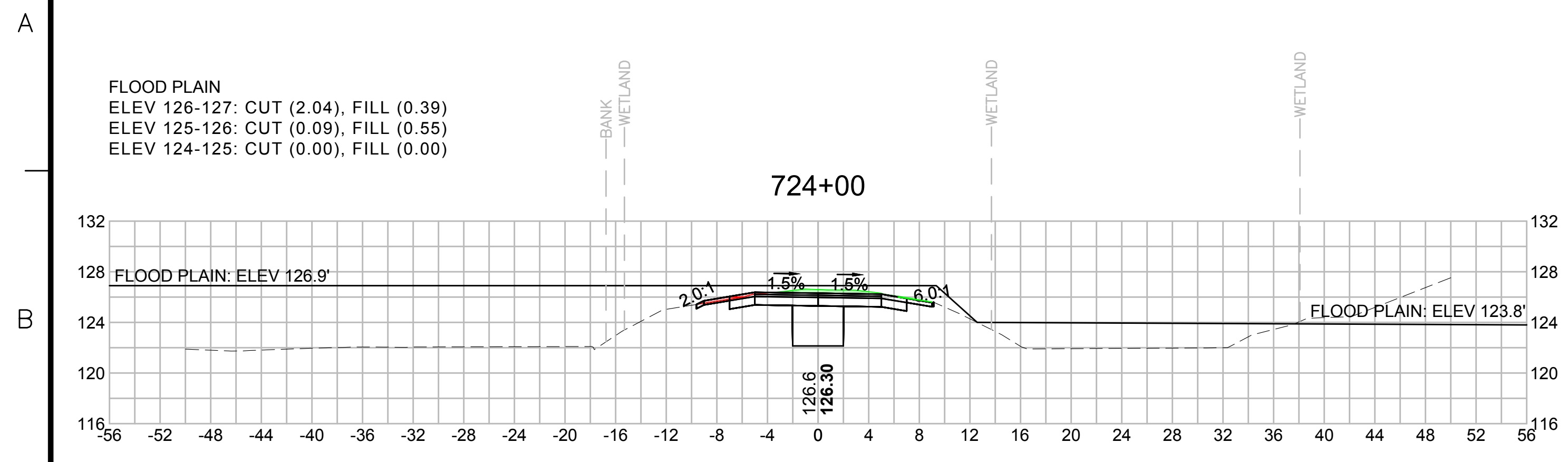
FLOODPLAIN
NO IMPACTS
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FLOOD PLAIN
NO IMPACTS
ABOVE FLOODPLAIN

| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| REVISION | | | | |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 329 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |



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| N O. | DESCRIPTION | BY | DATE | APPR. |
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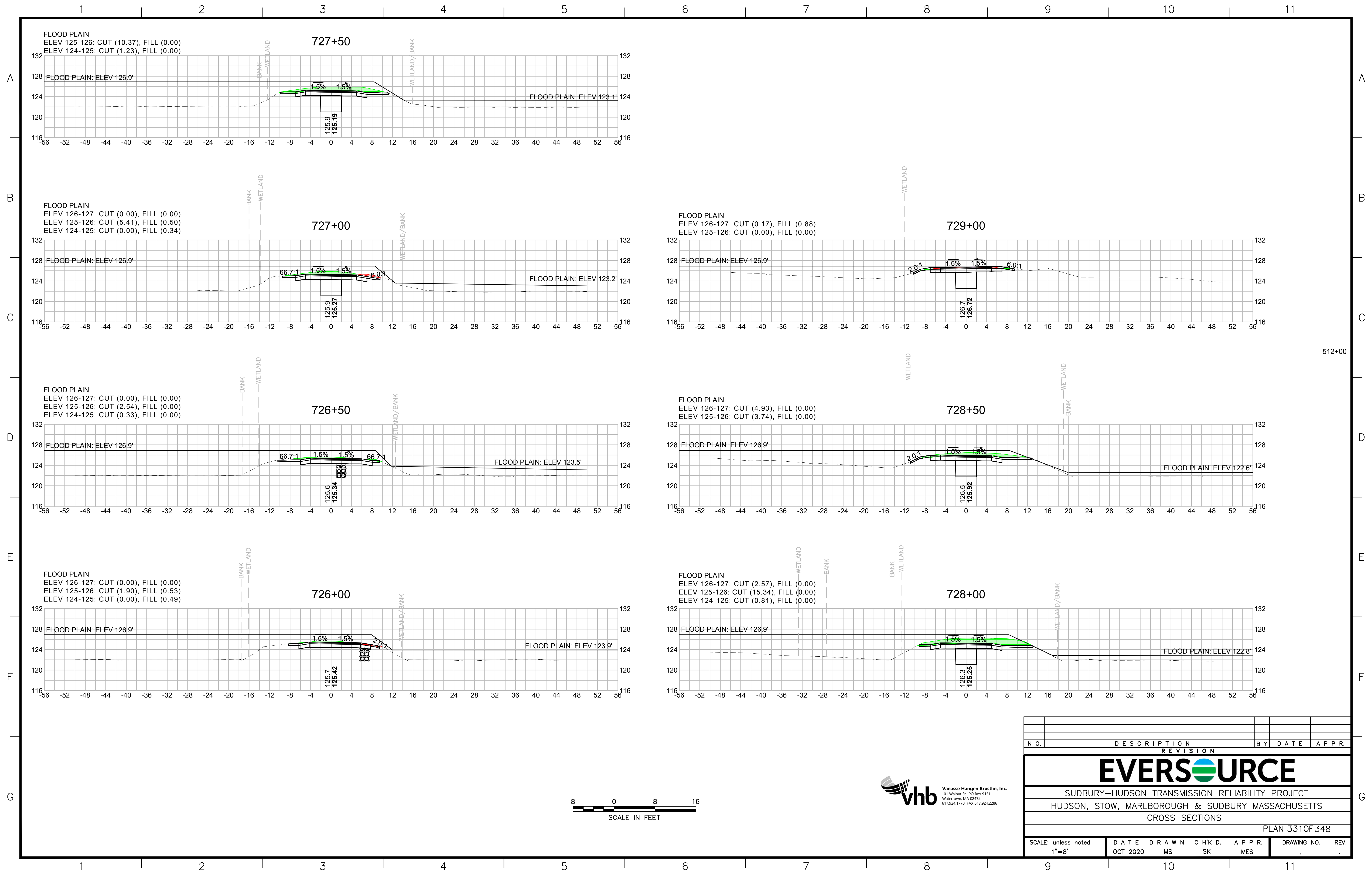
EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS

PLAN 330 OF 348

| | | | | | | |
|------------------------------|------------------|-------------|--------------|--------------|-------------|------|
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. | REV. |
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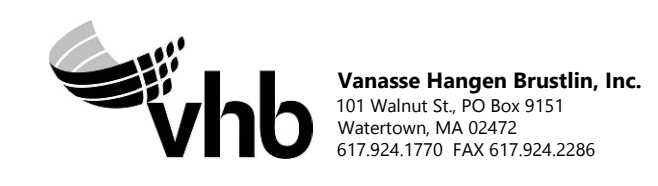
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| | REVISION | | | |

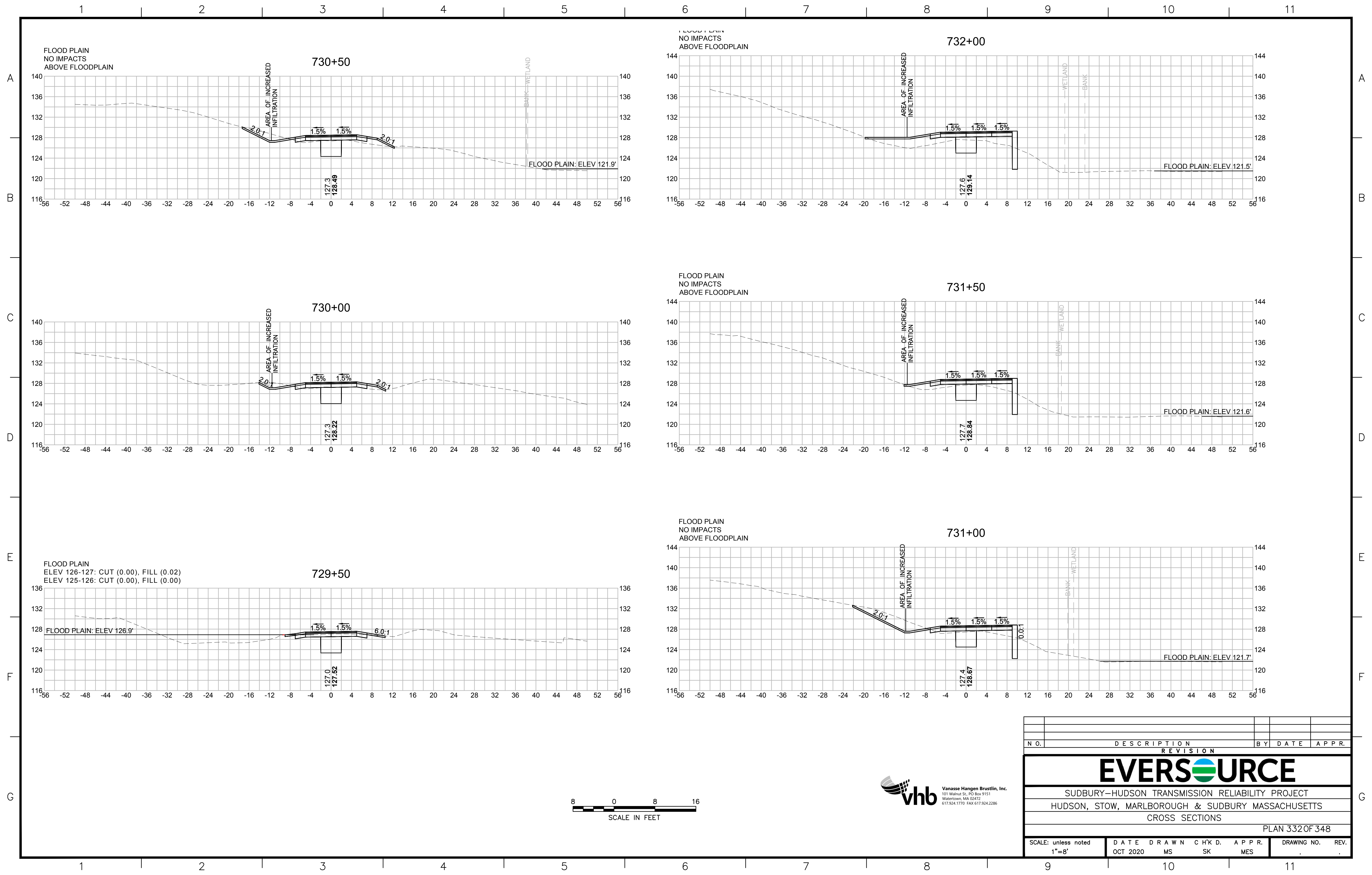
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SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS

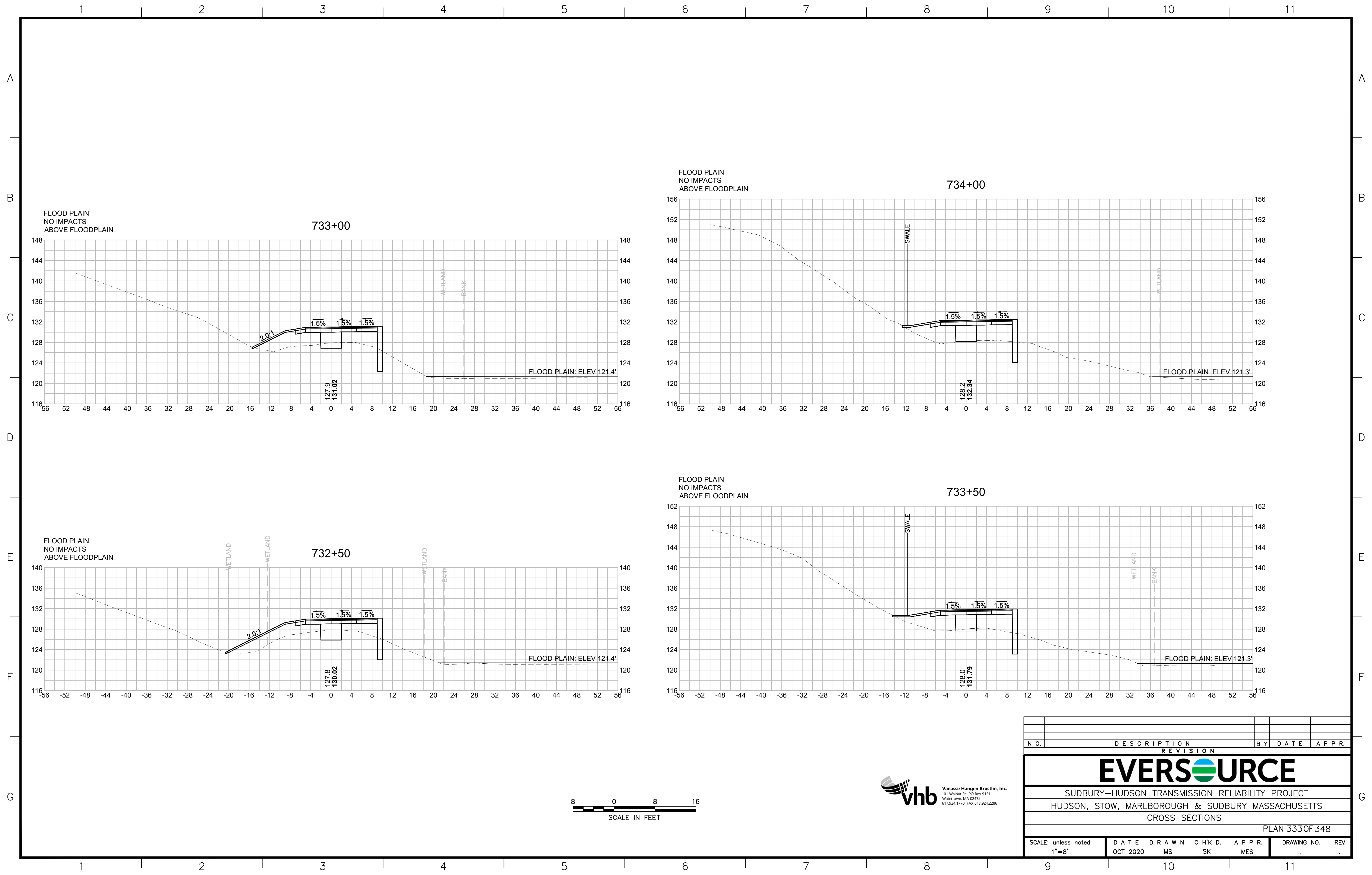
PLAN 3310F348

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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. | REV. |
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| N O. | DESCRIPTION | BY | DATE | APPR. |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 332 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |



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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 333 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

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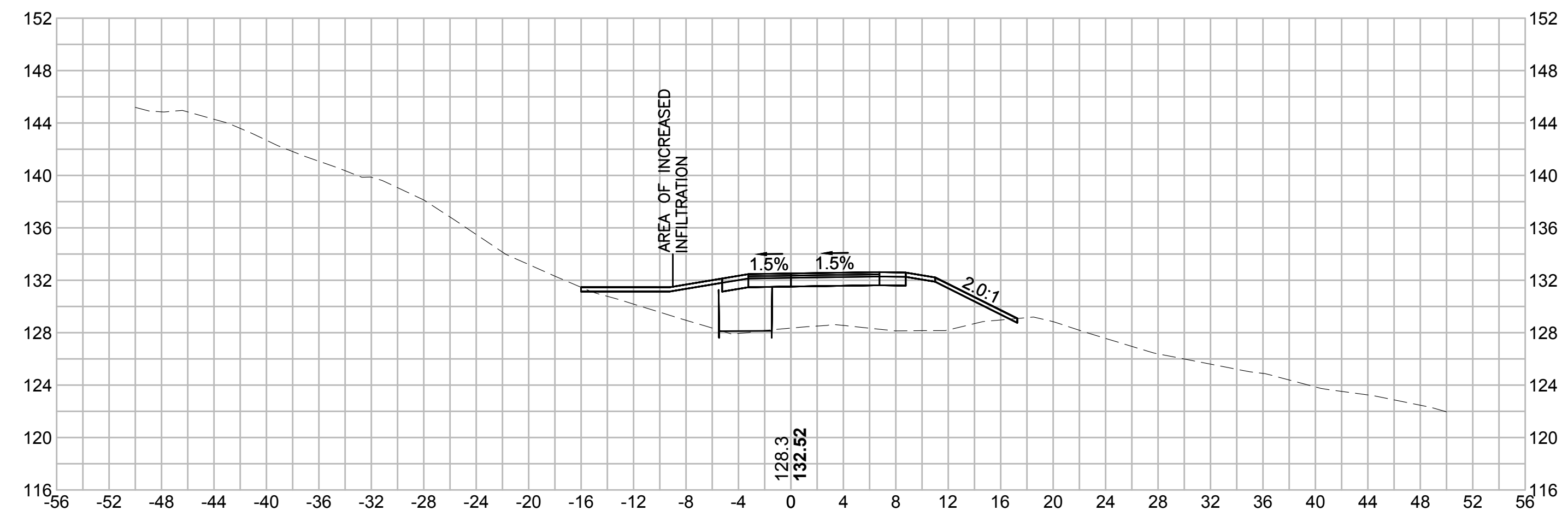
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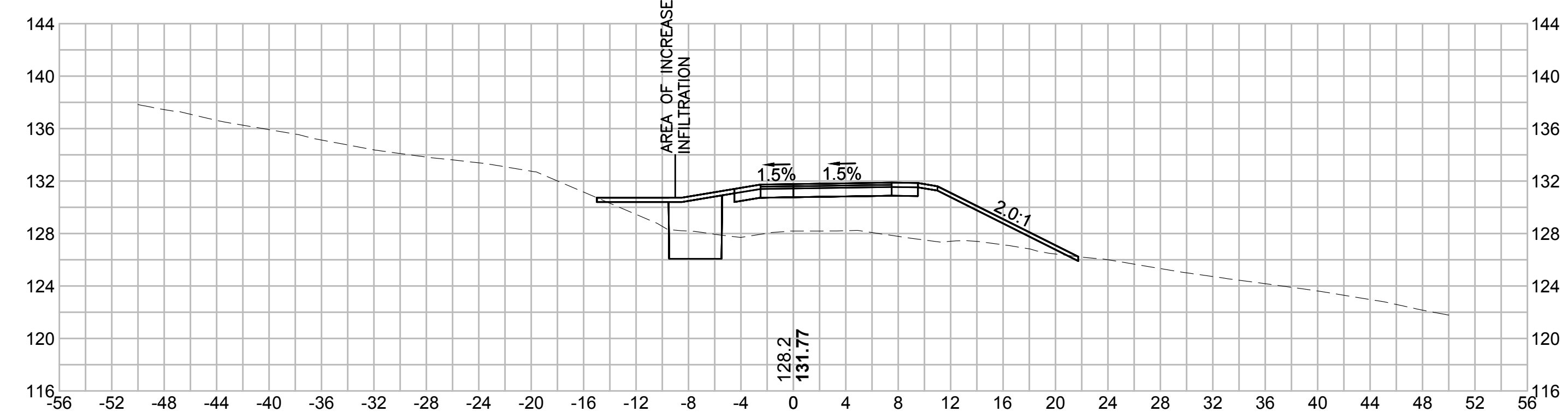
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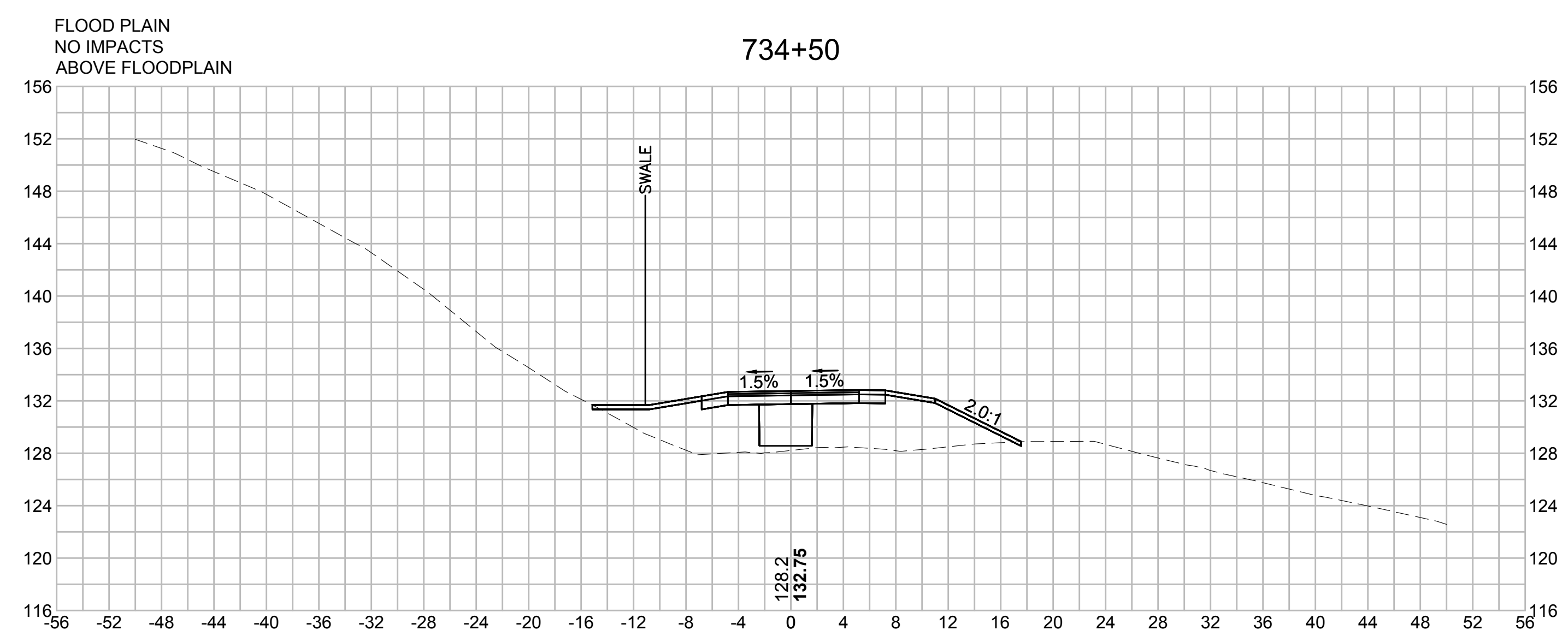
735+00



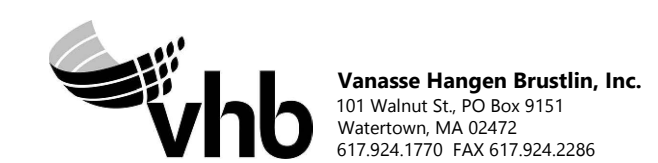
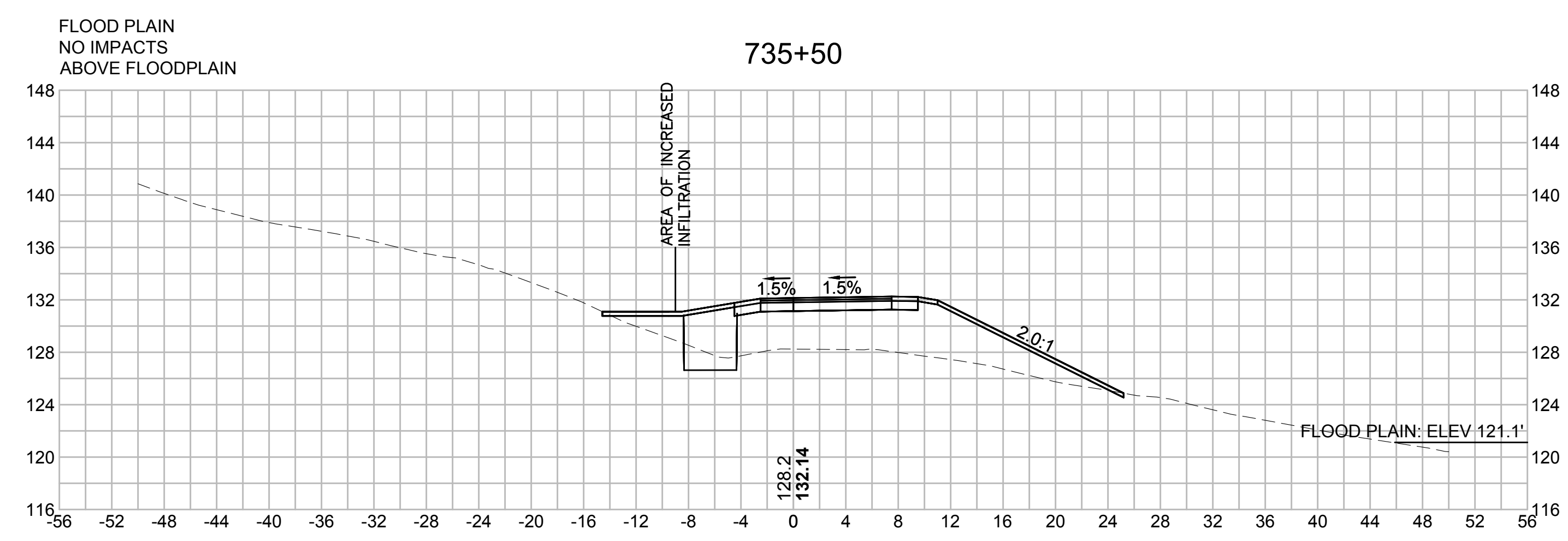
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734+50



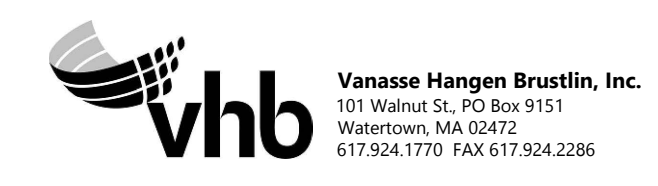
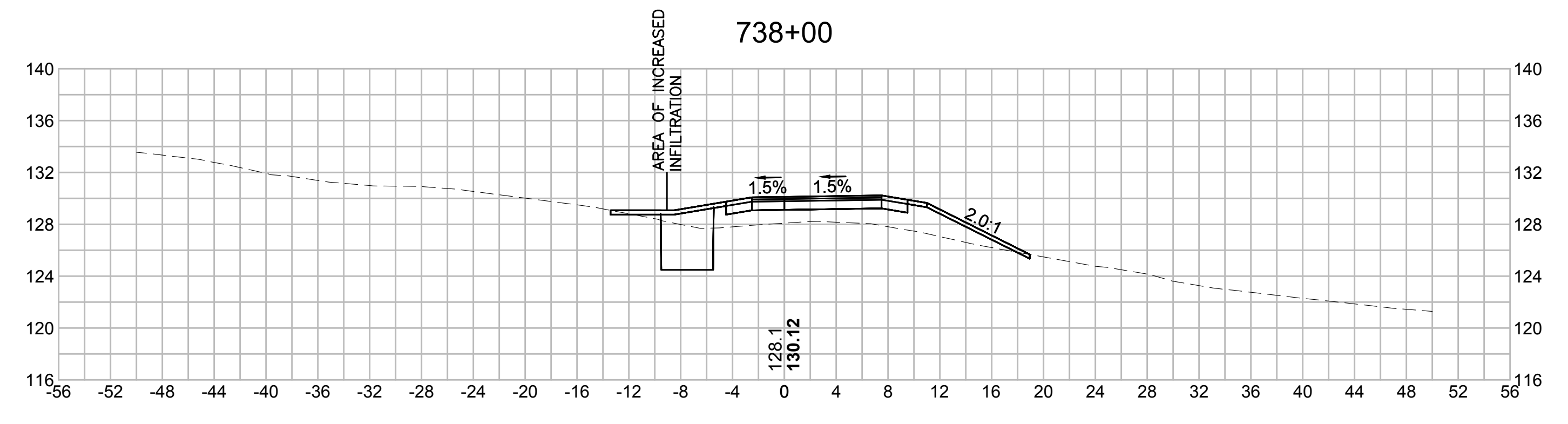
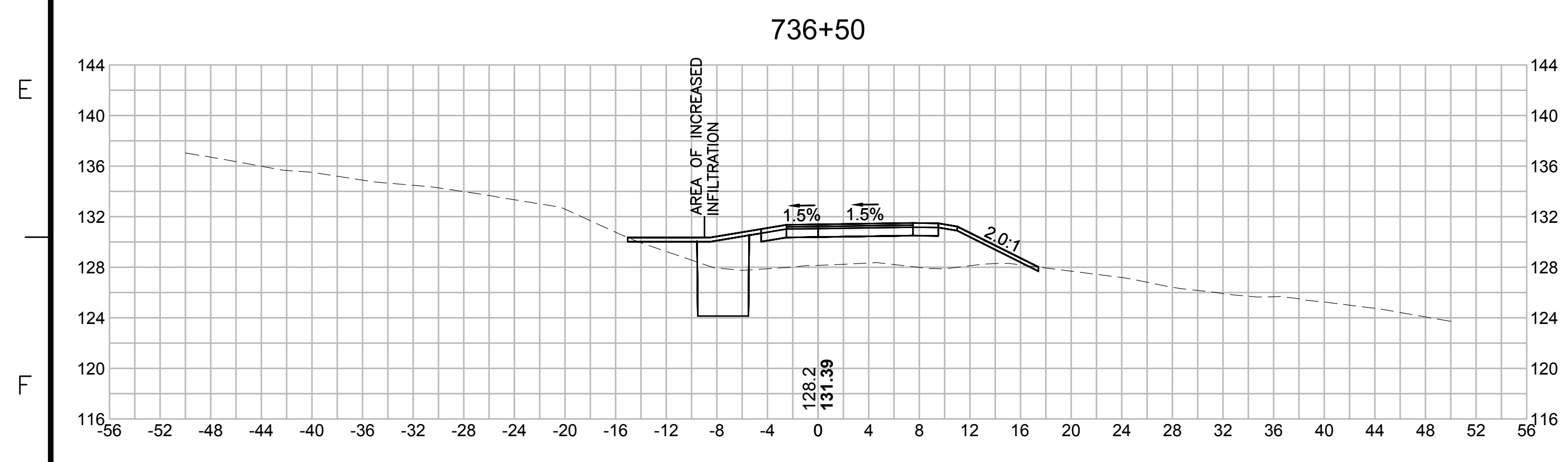
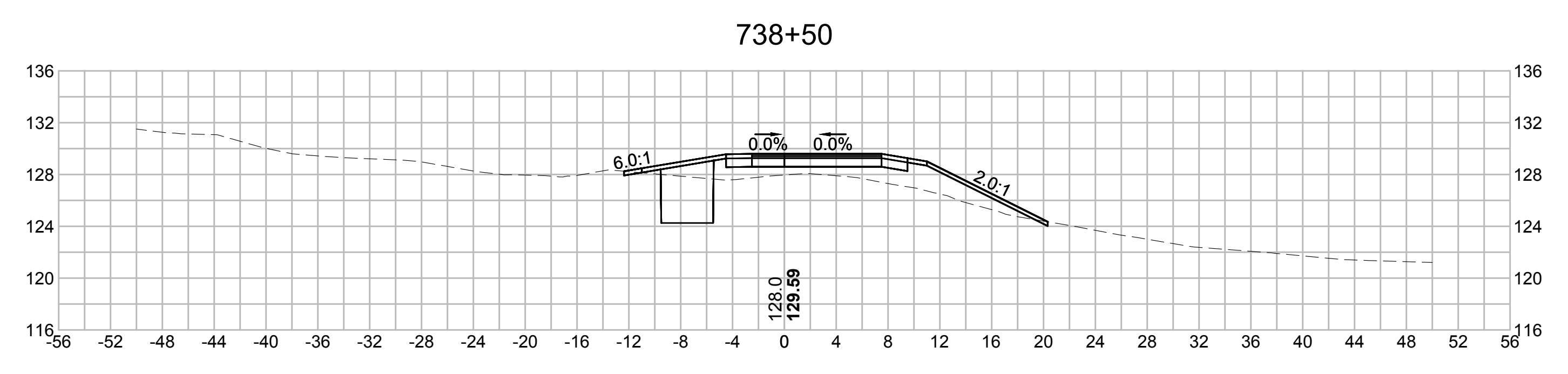
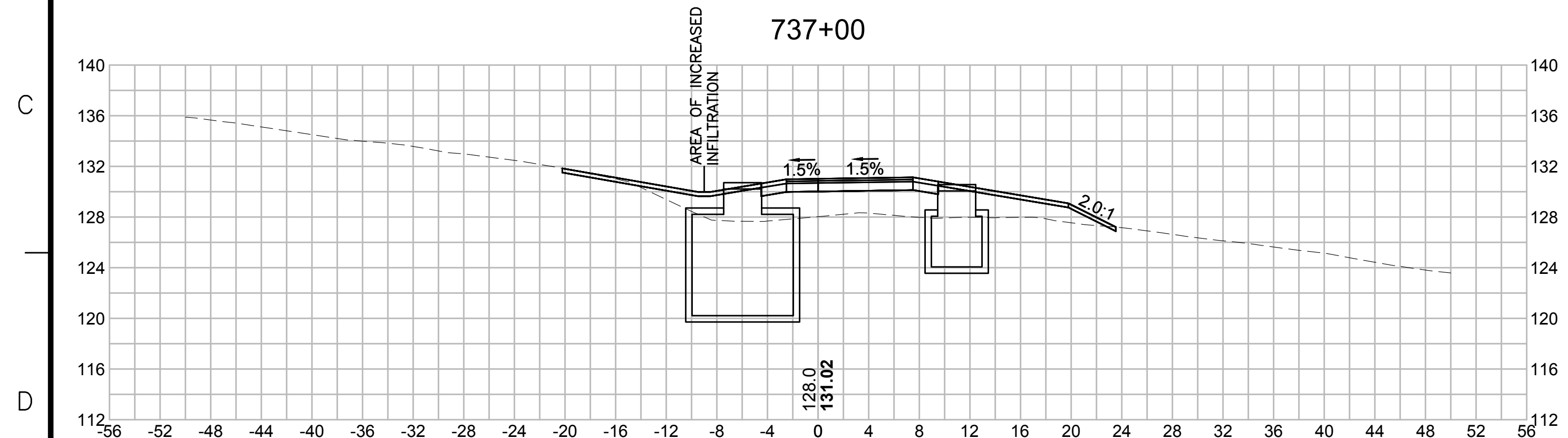
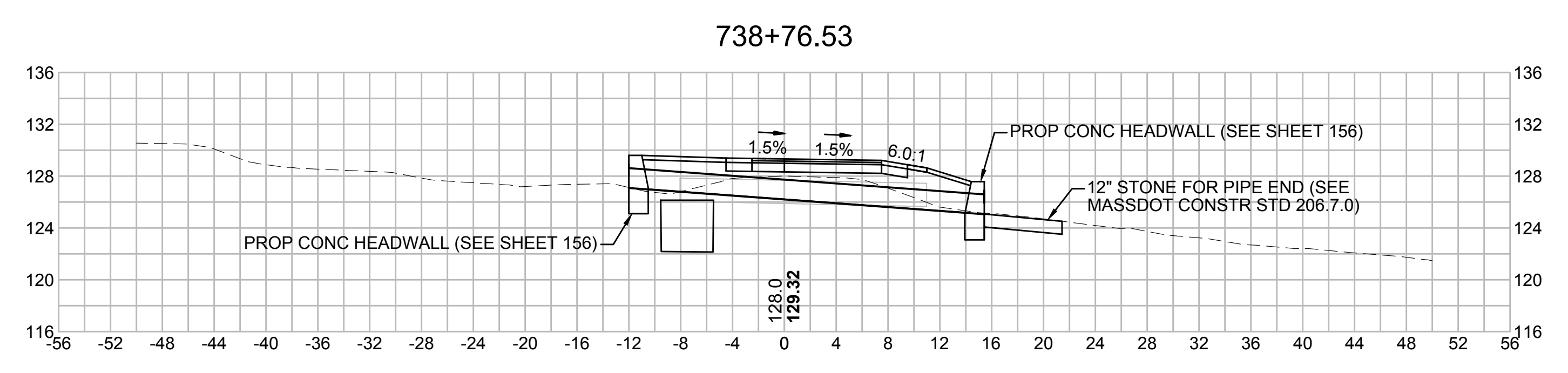
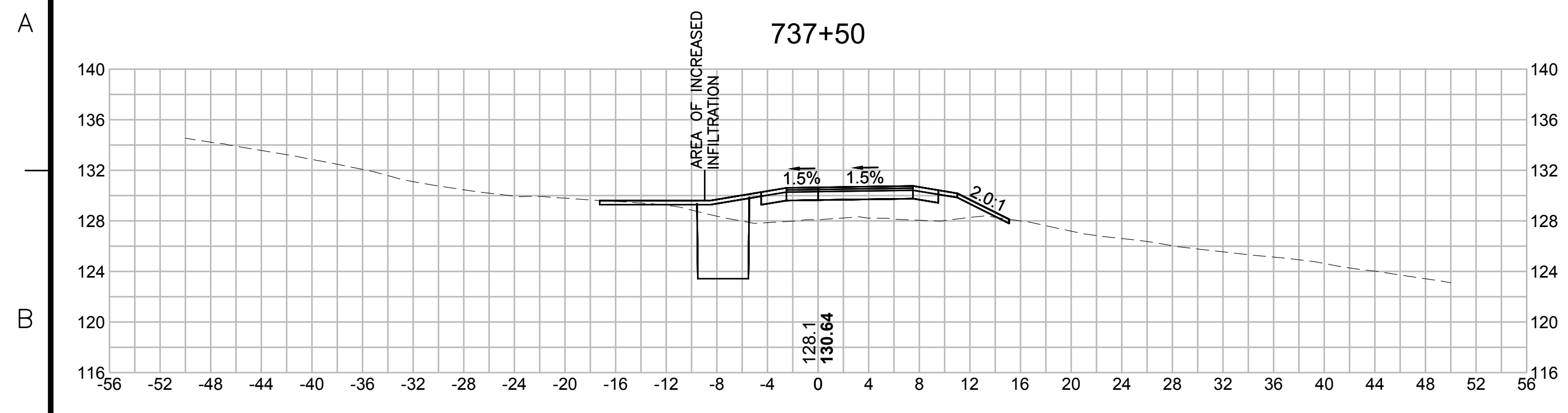
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| | REVISION | | | |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 334 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 335 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

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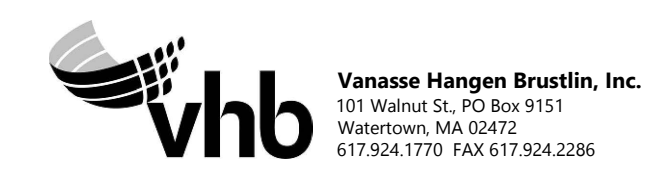
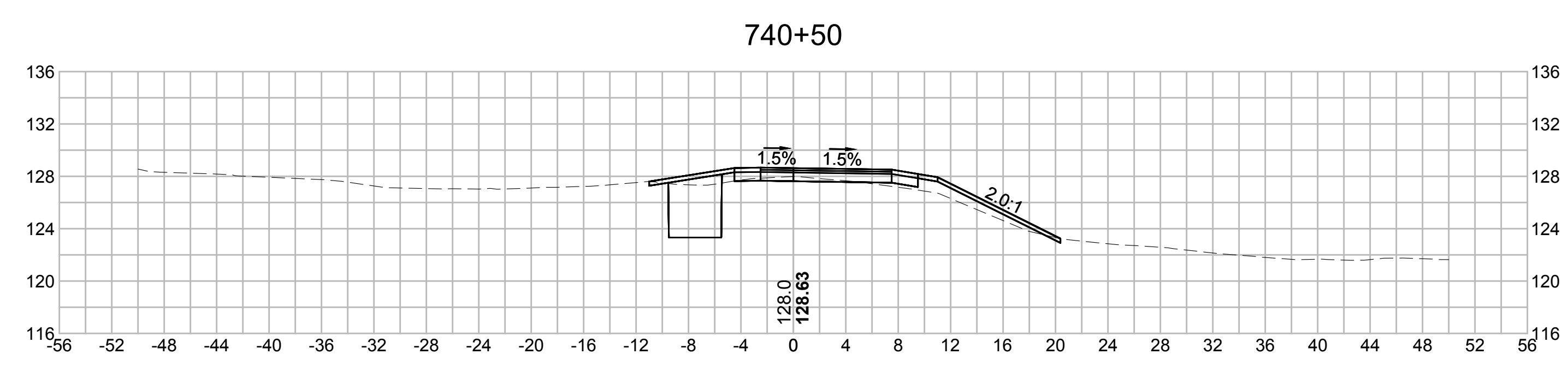
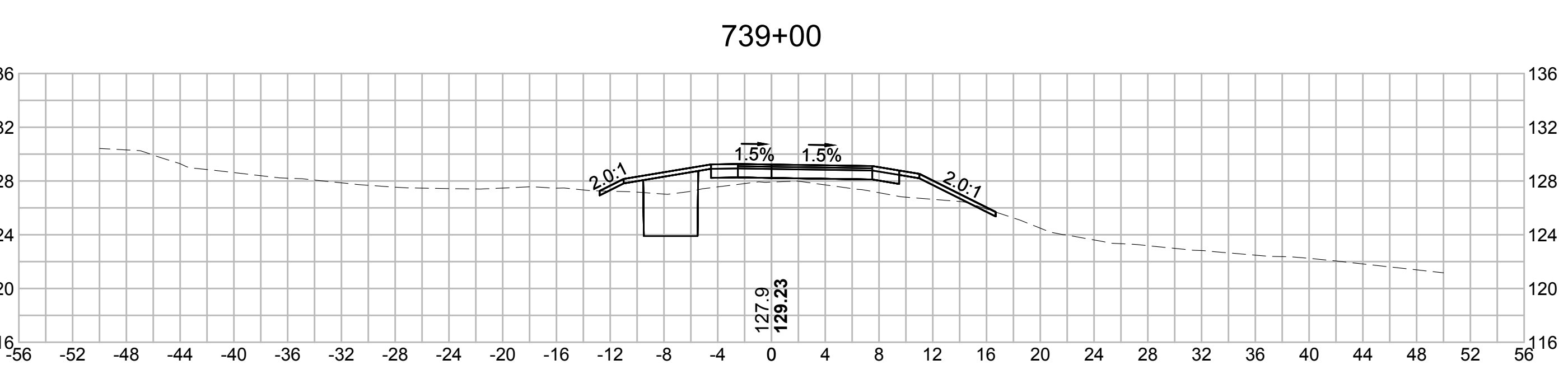
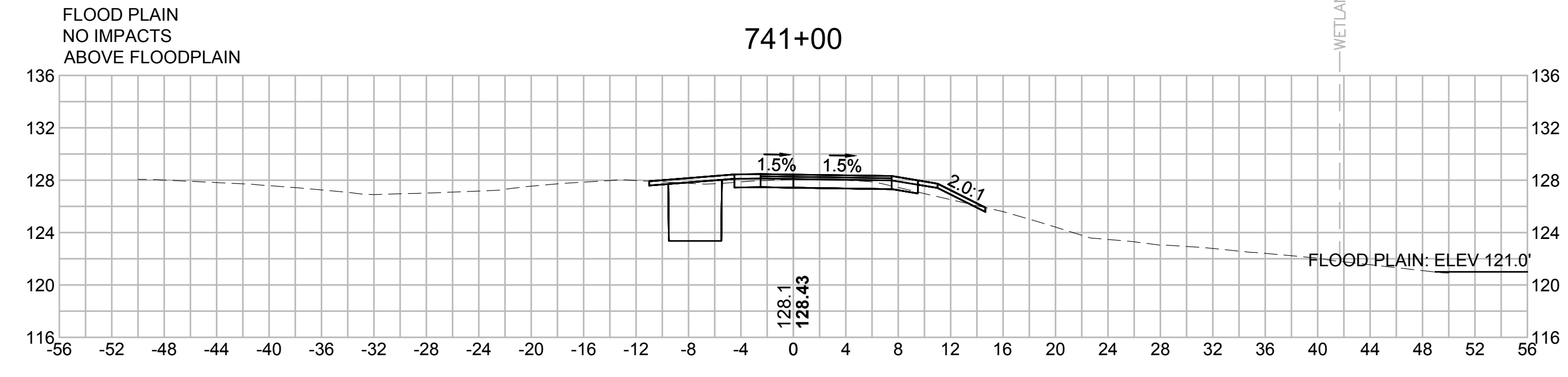
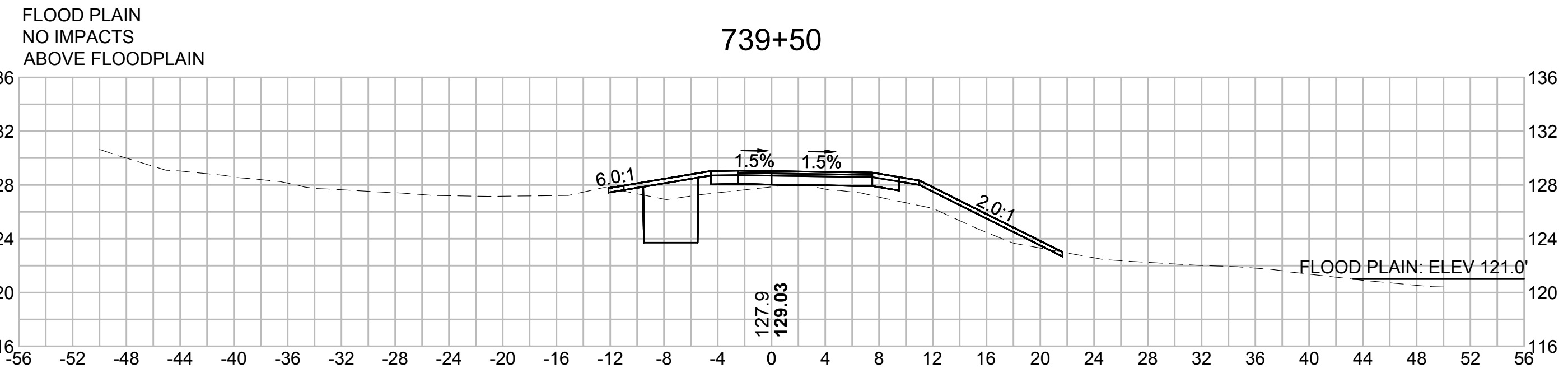
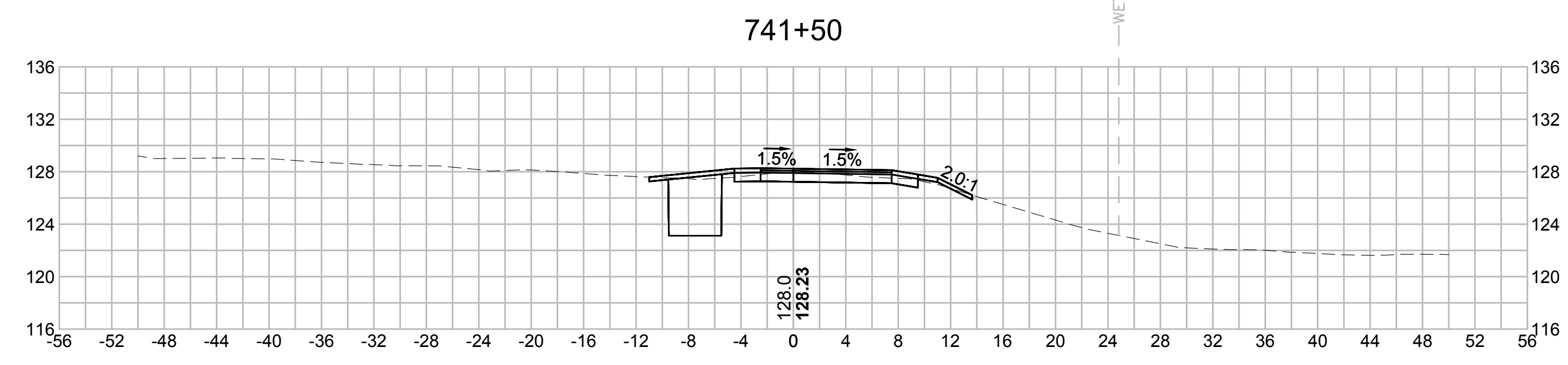
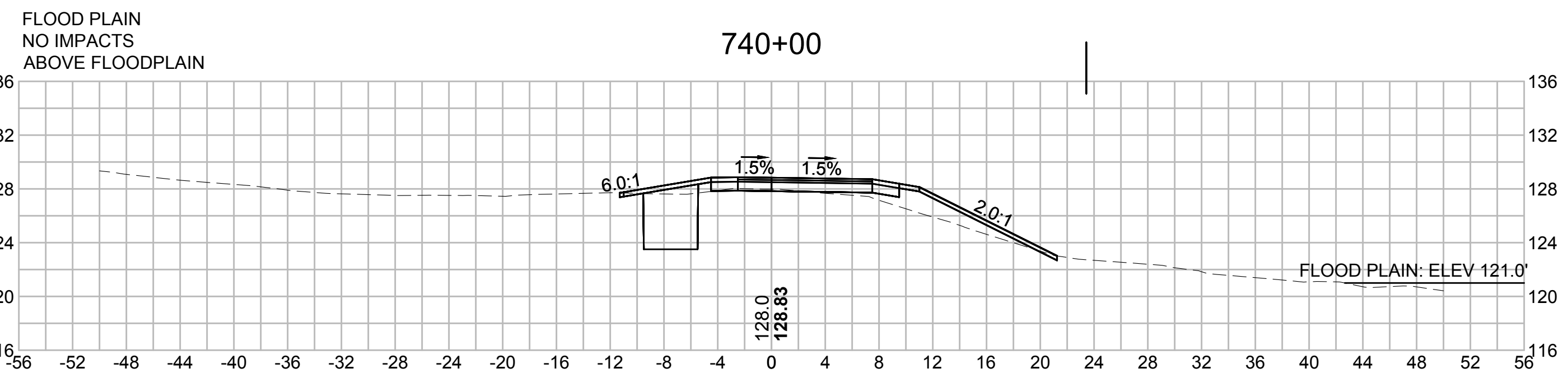
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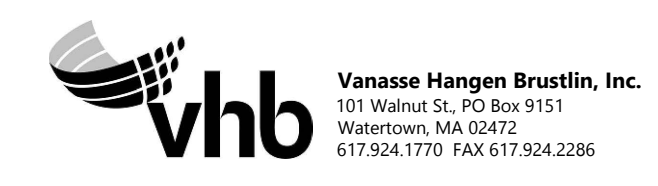
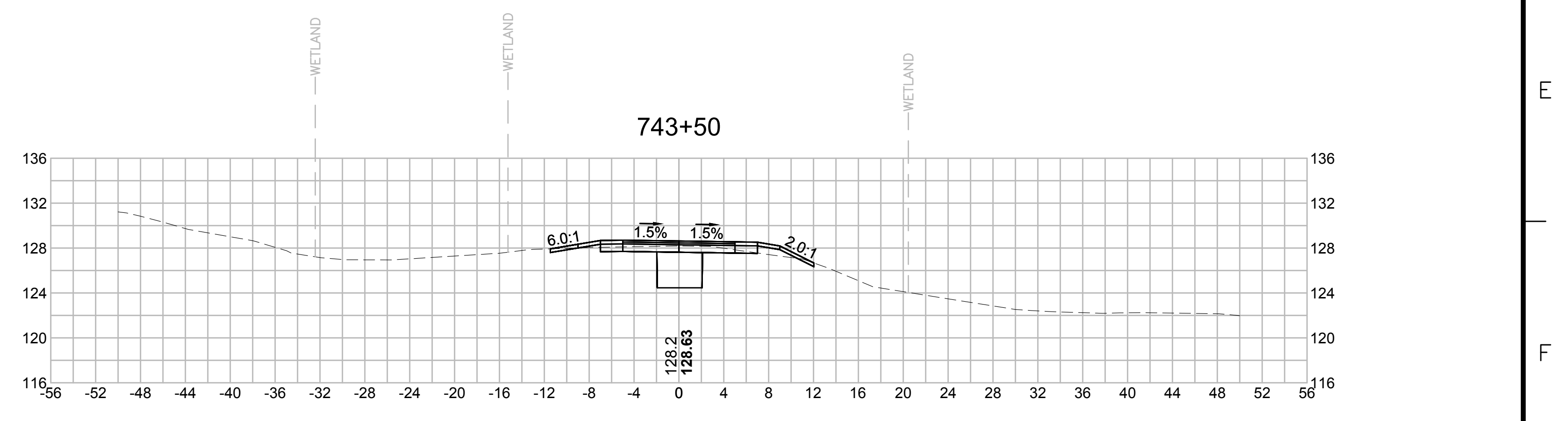
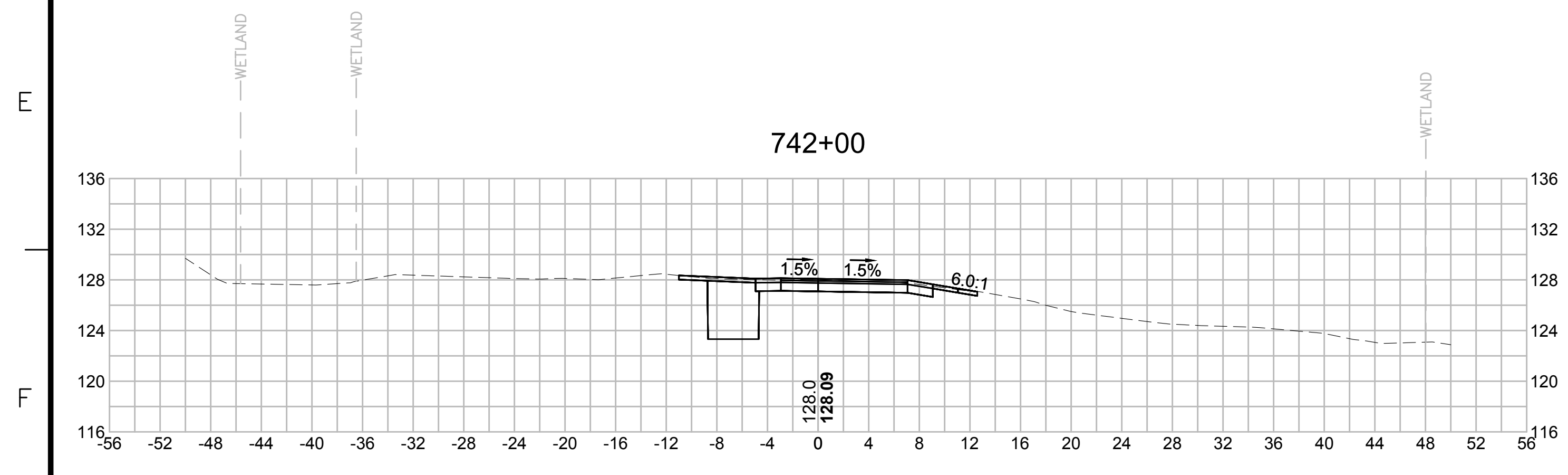
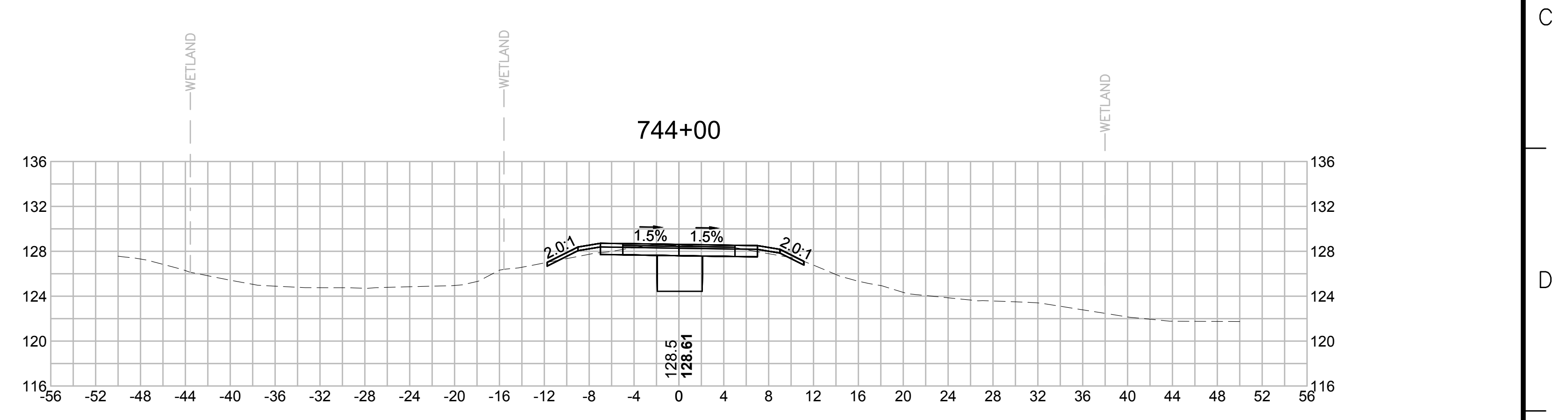
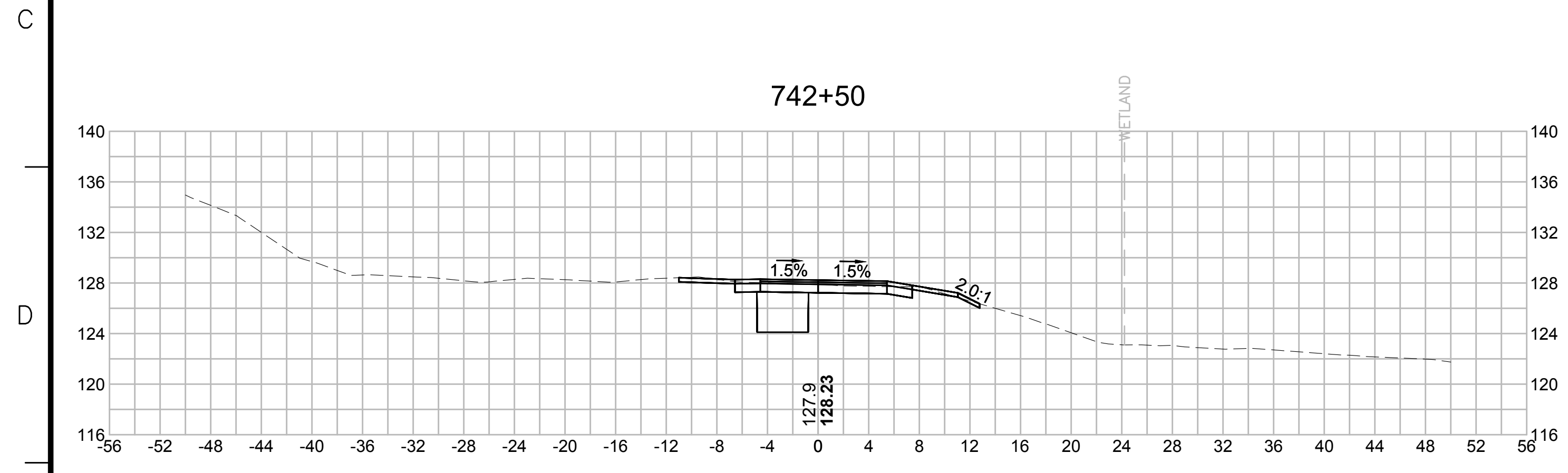
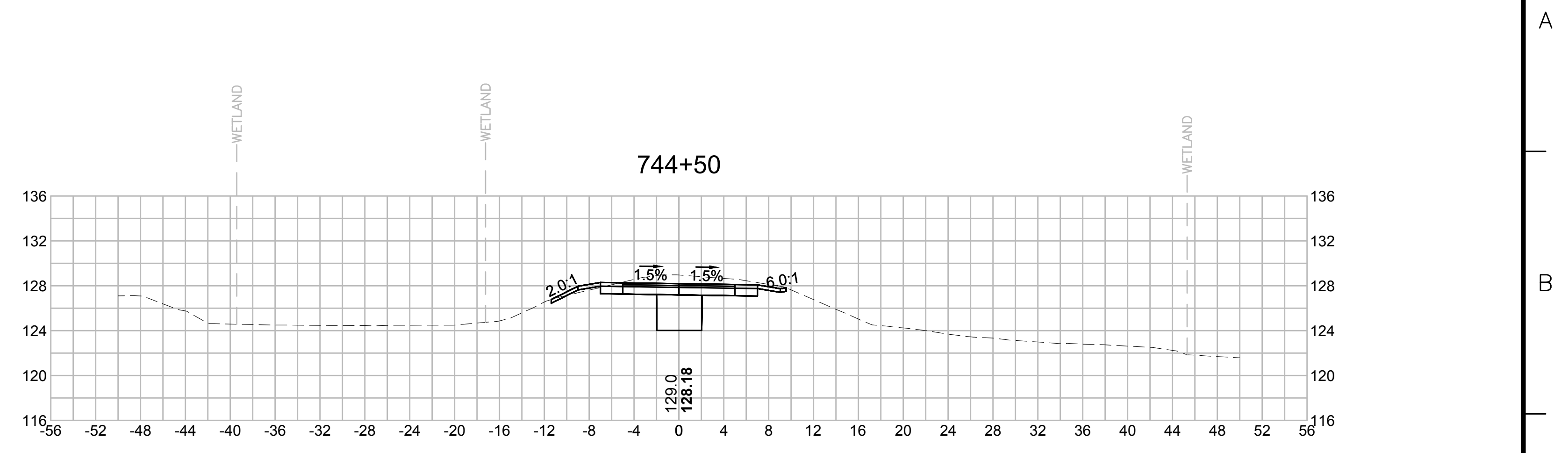
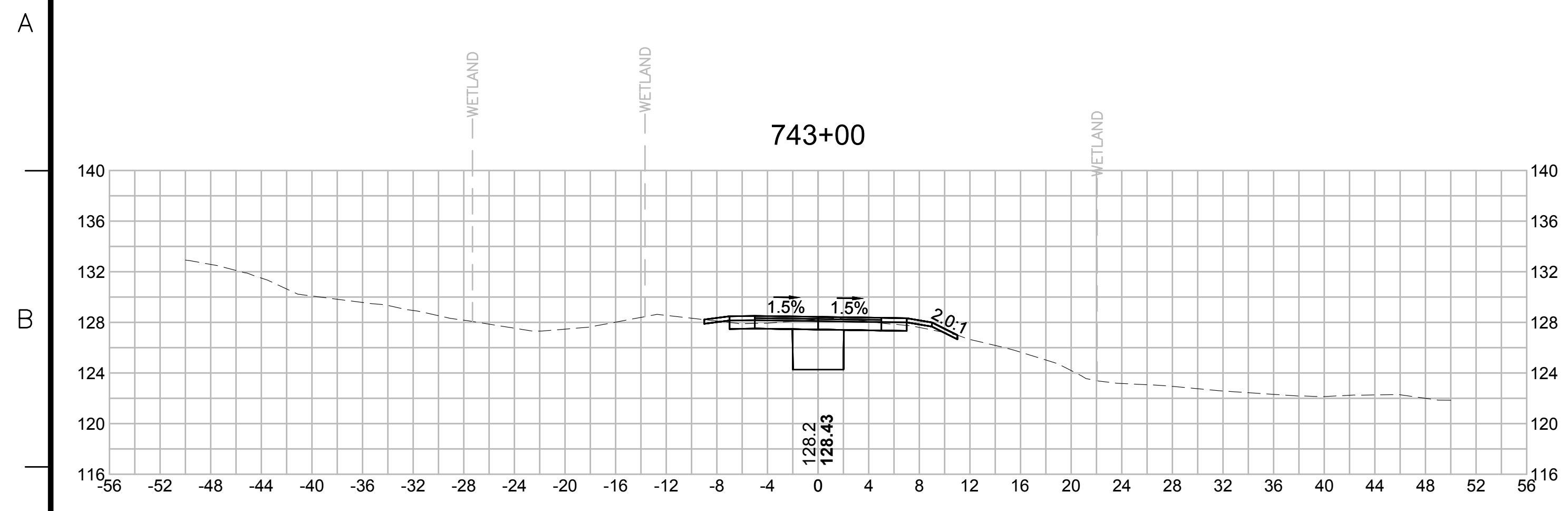
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CROSS SECTIONS

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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. | REV. |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 337 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
| DRAWING NO. | REV. | | | |

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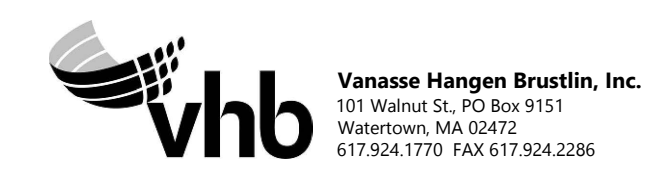
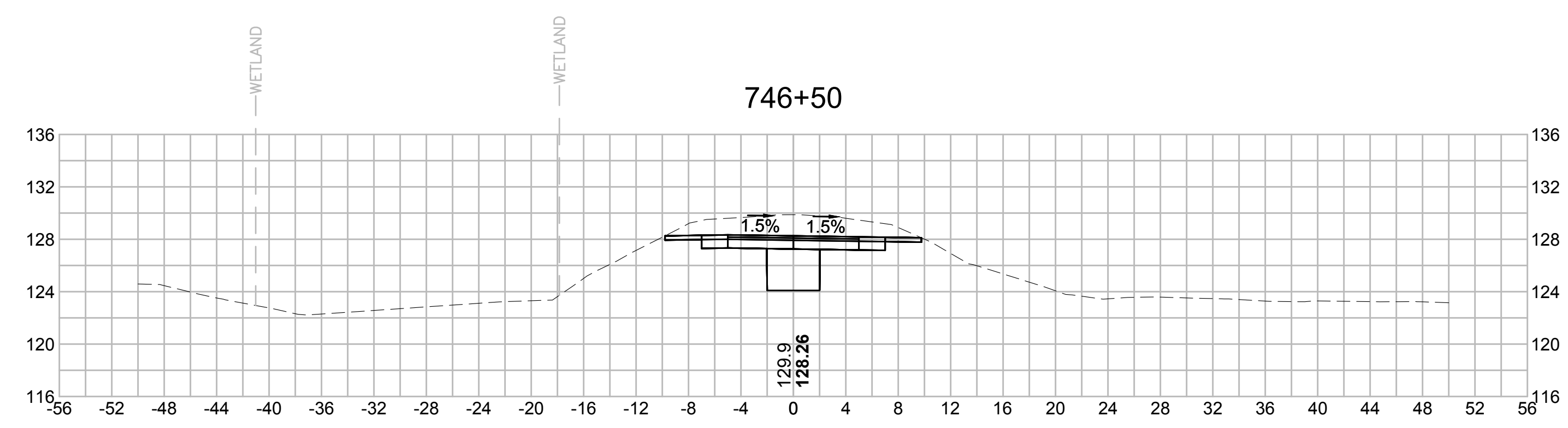
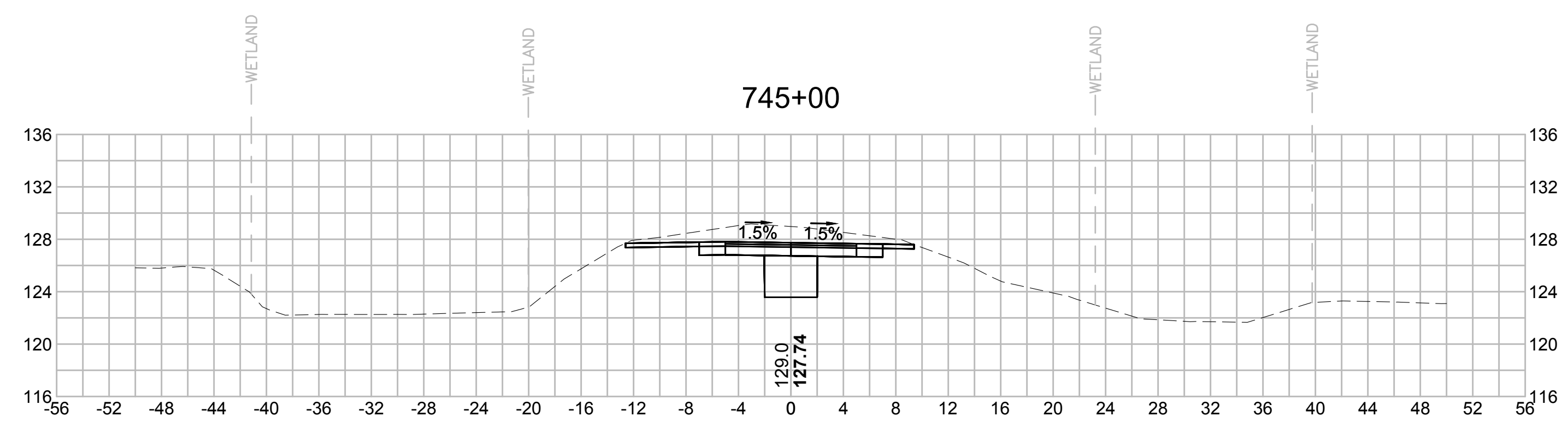
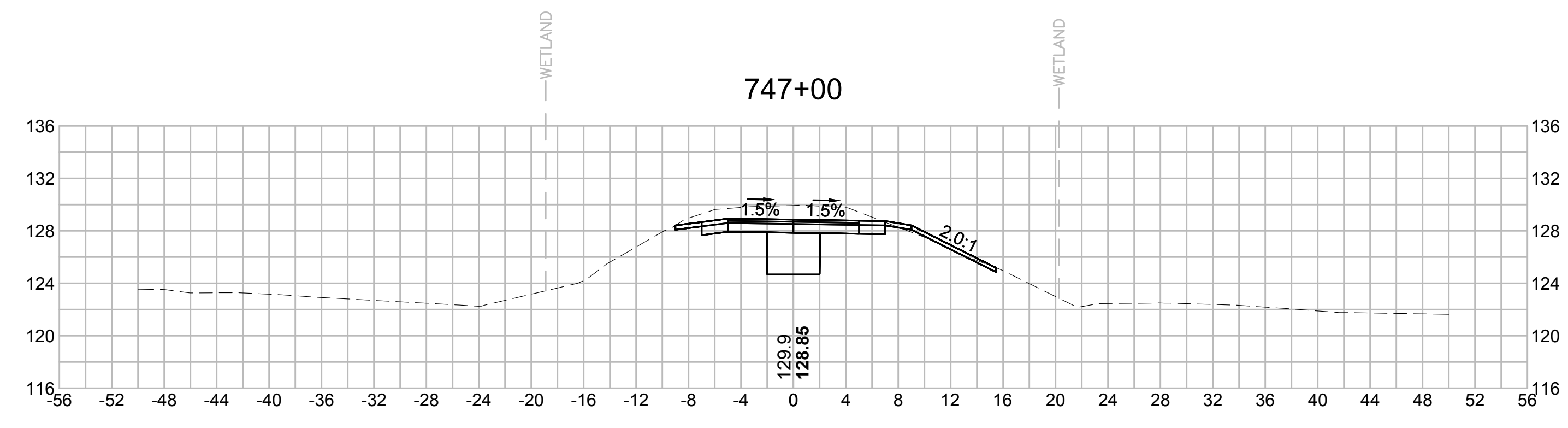
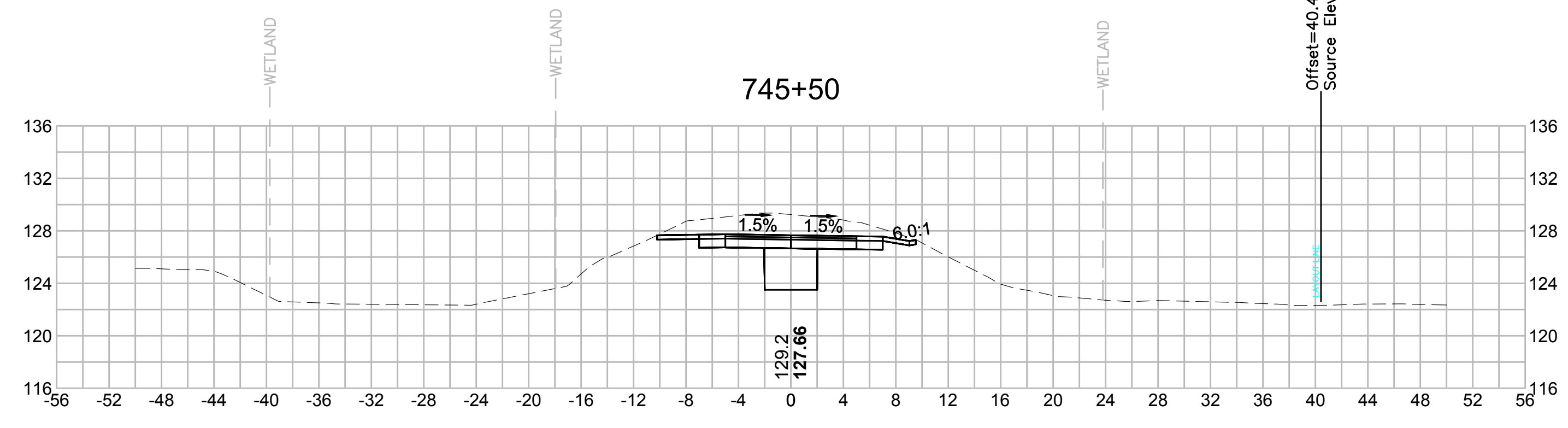
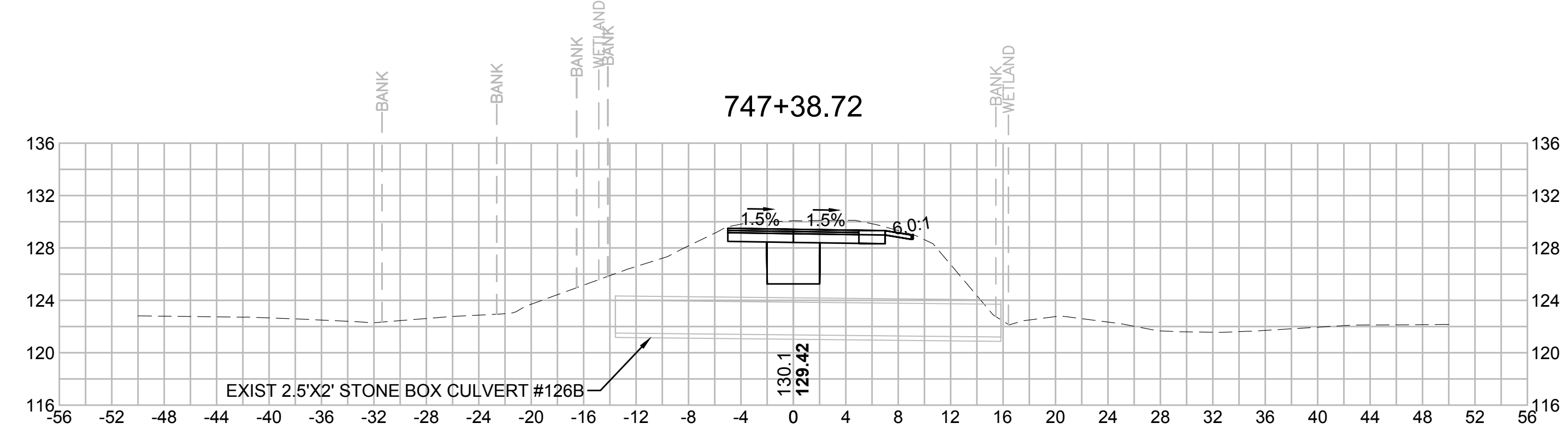
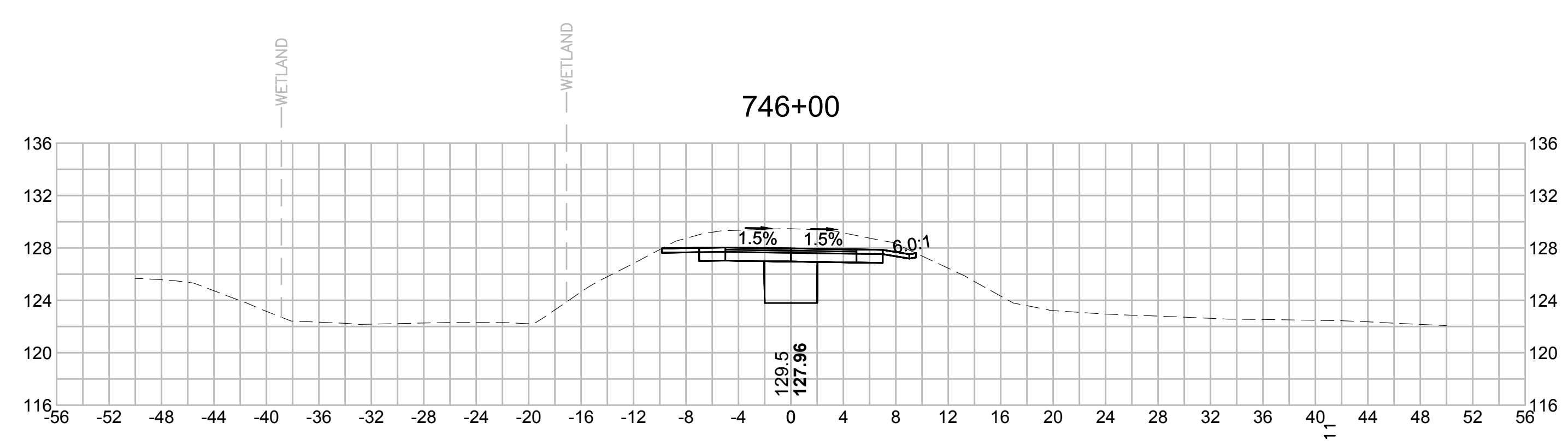
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS

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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. | REV. |
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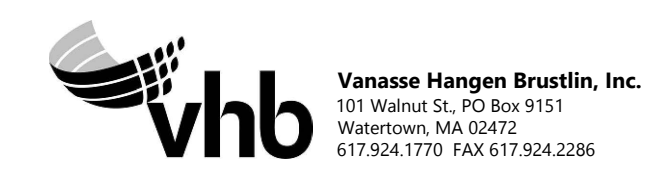
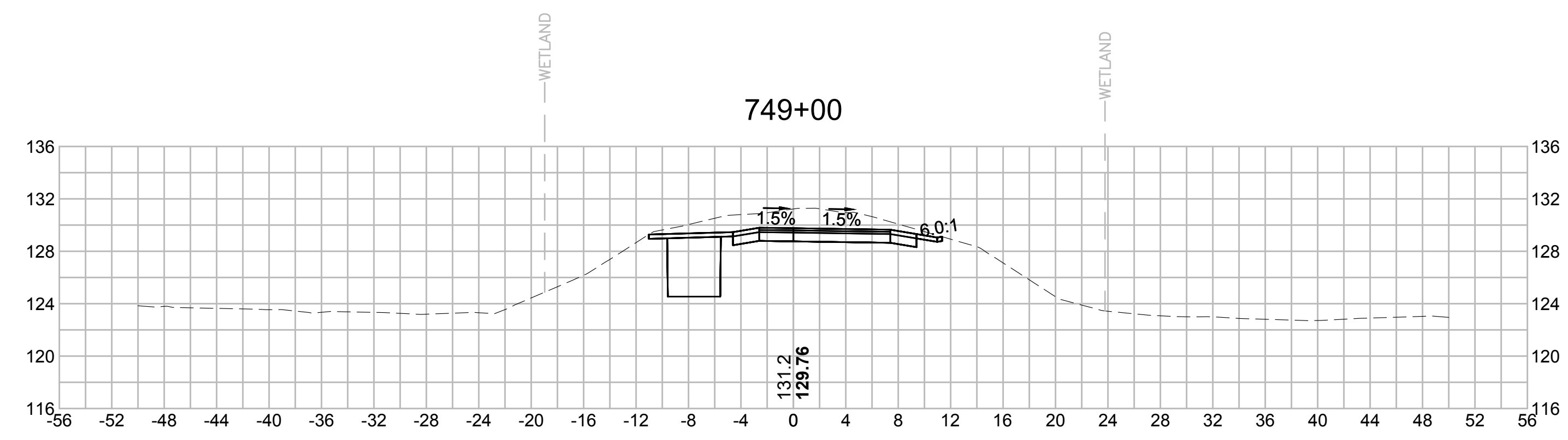
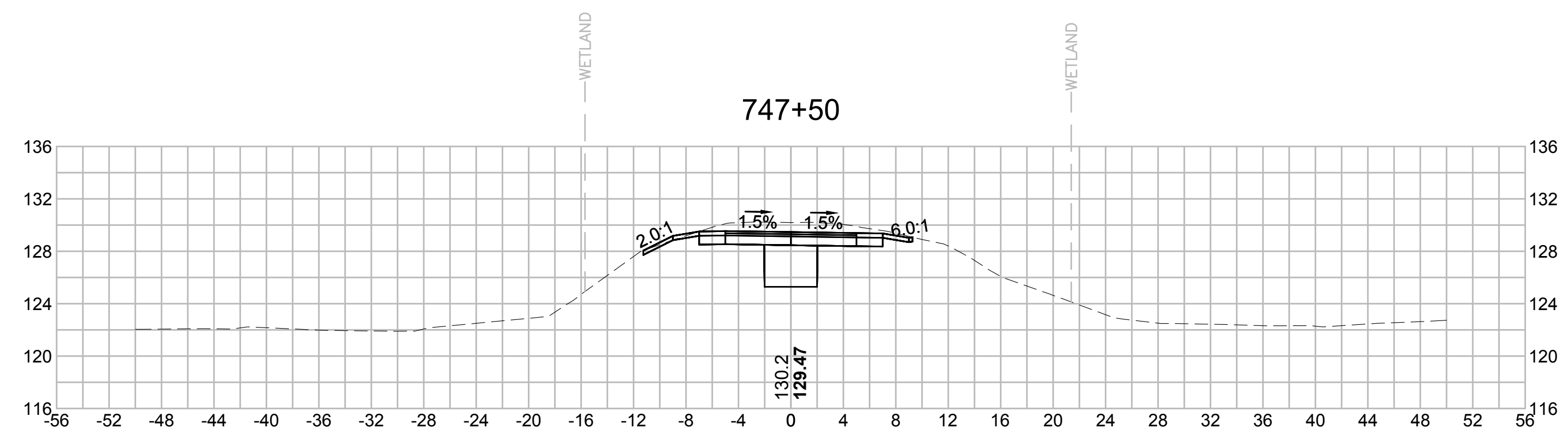
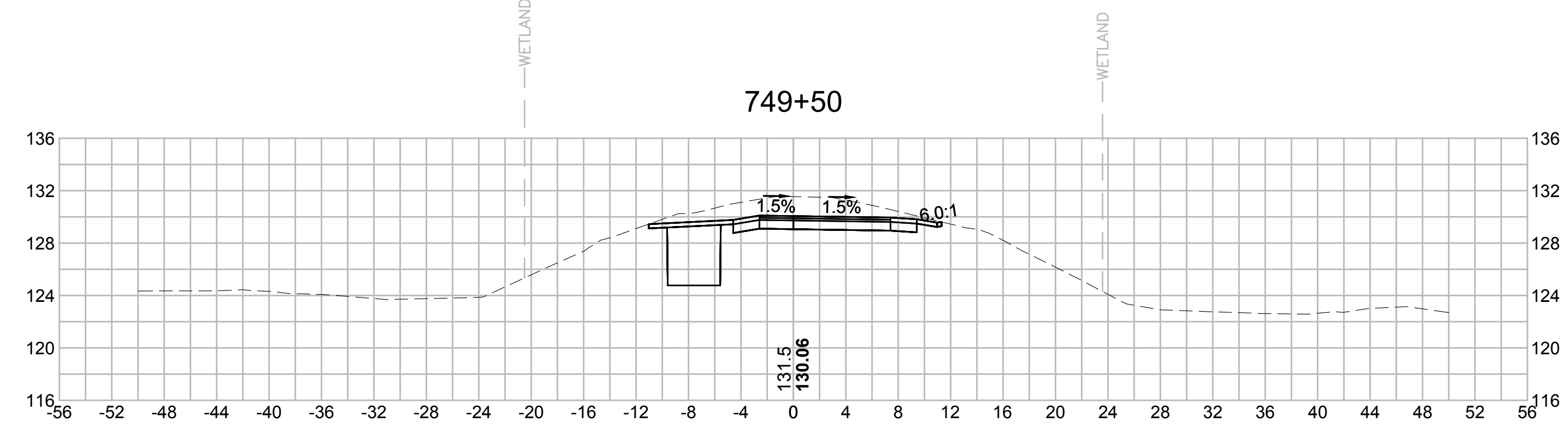
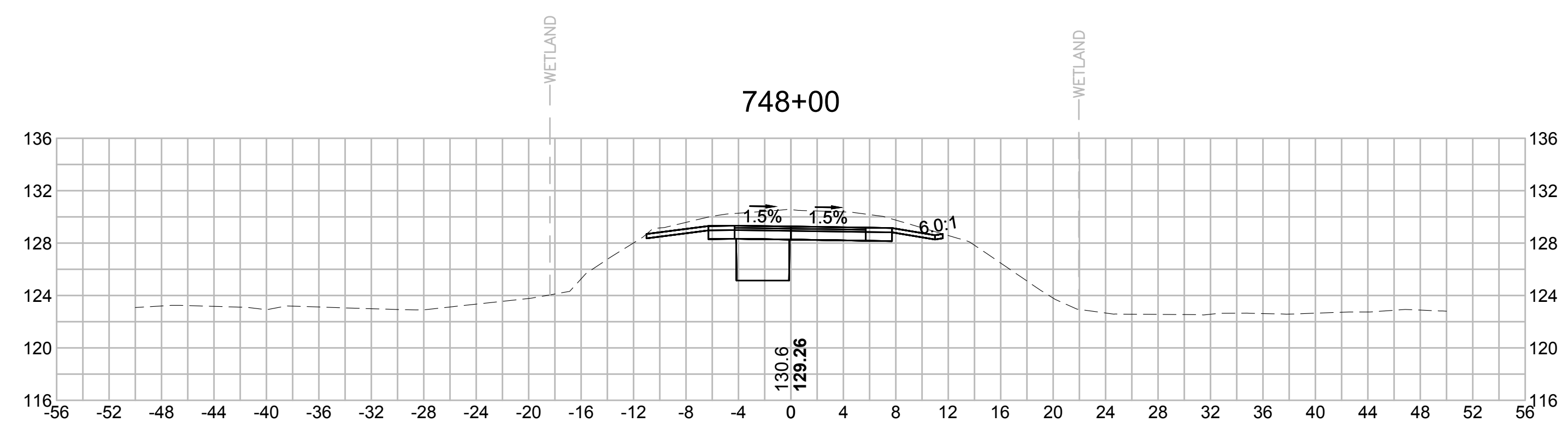
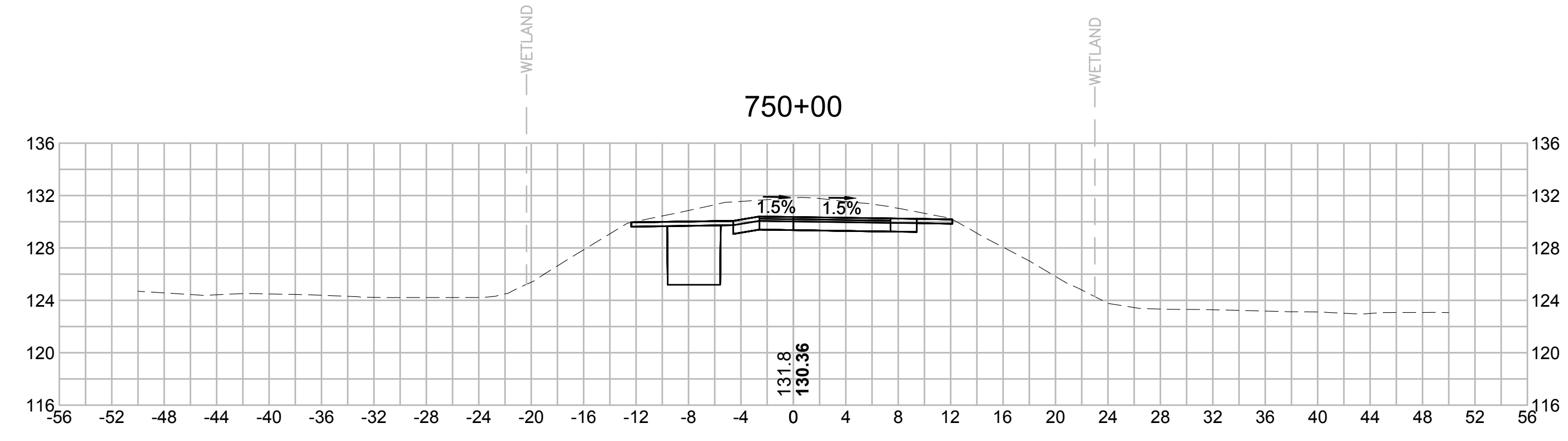
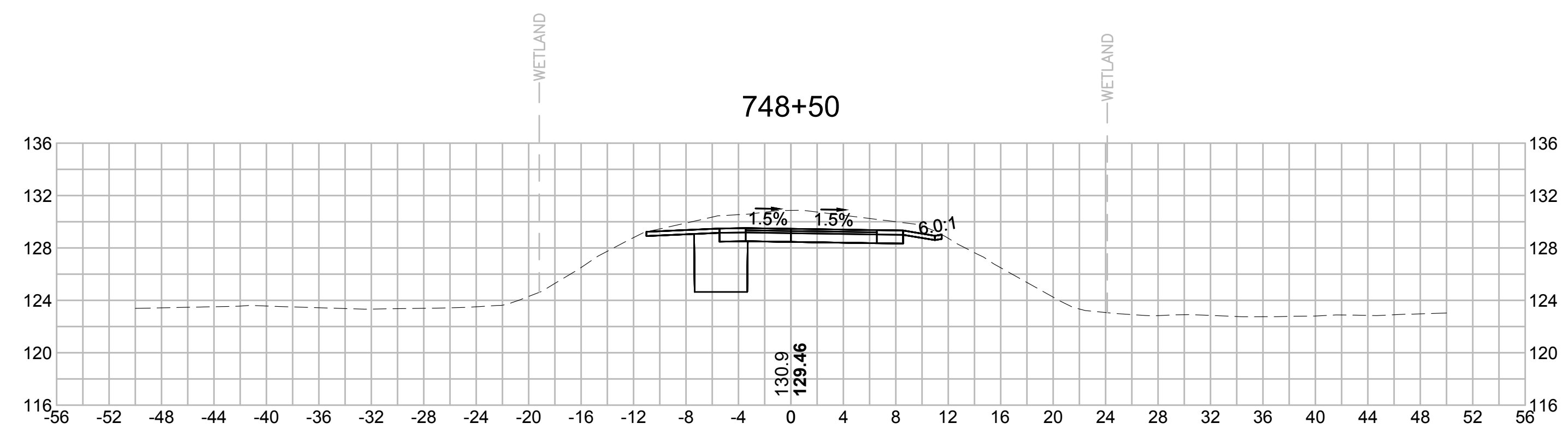
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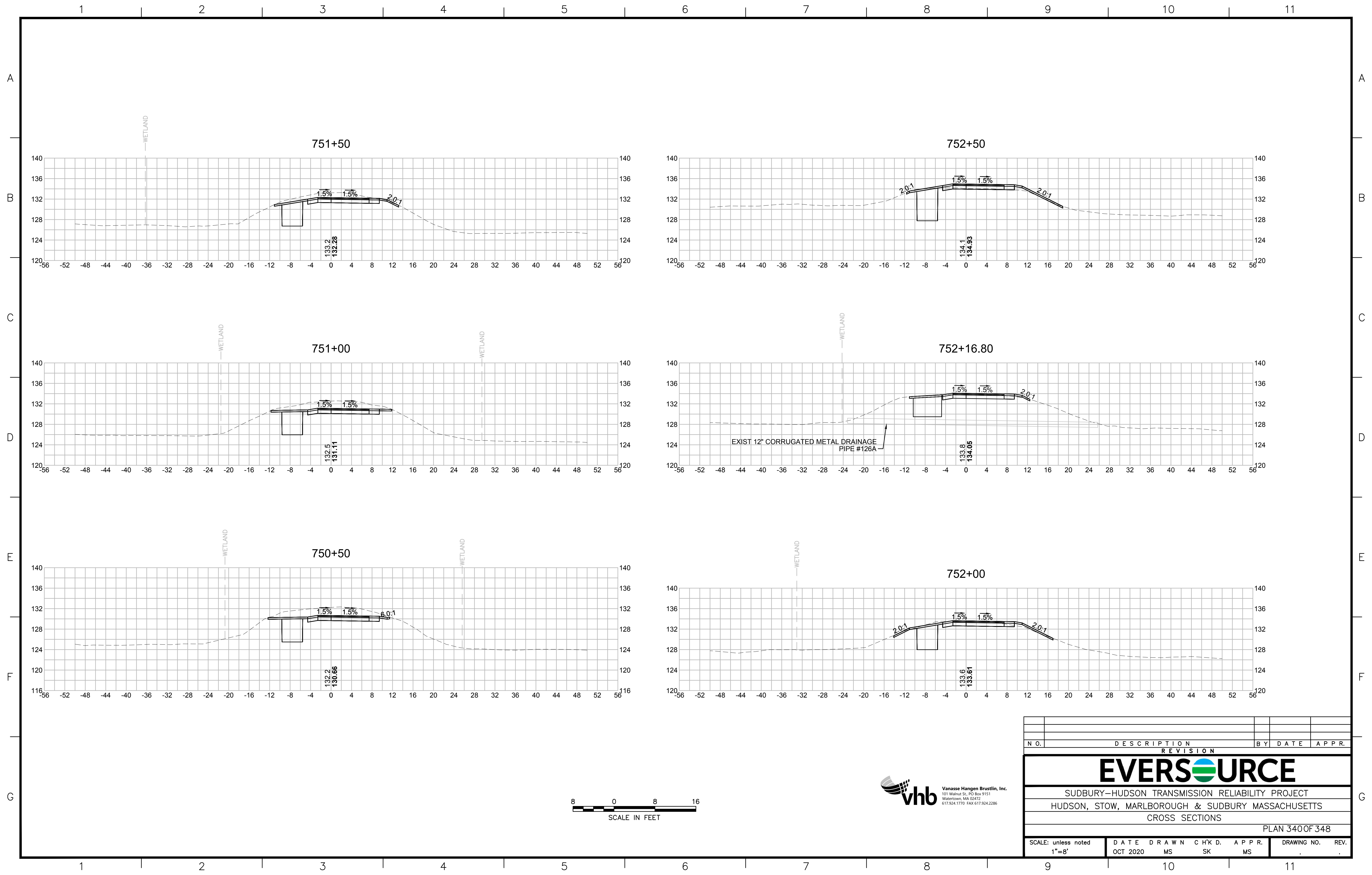
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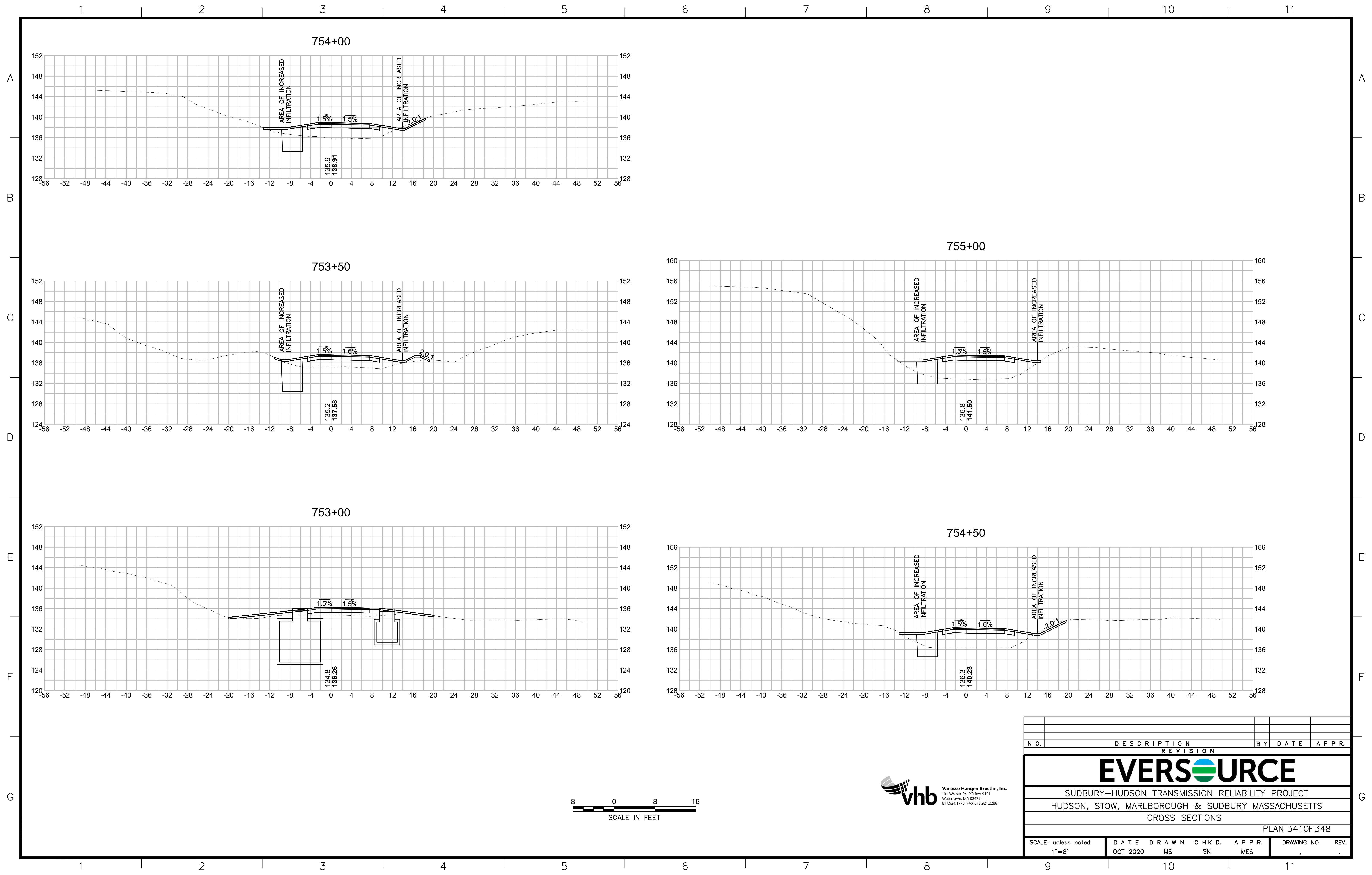


| N O. | DESCRIPTION | BY | DATE | APPR. |
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| REVISION | | | | |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 339 OF 348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MS |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
| CROSS SECTIONS | | | | |
| PLAN 3410F348 | | | | |
| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
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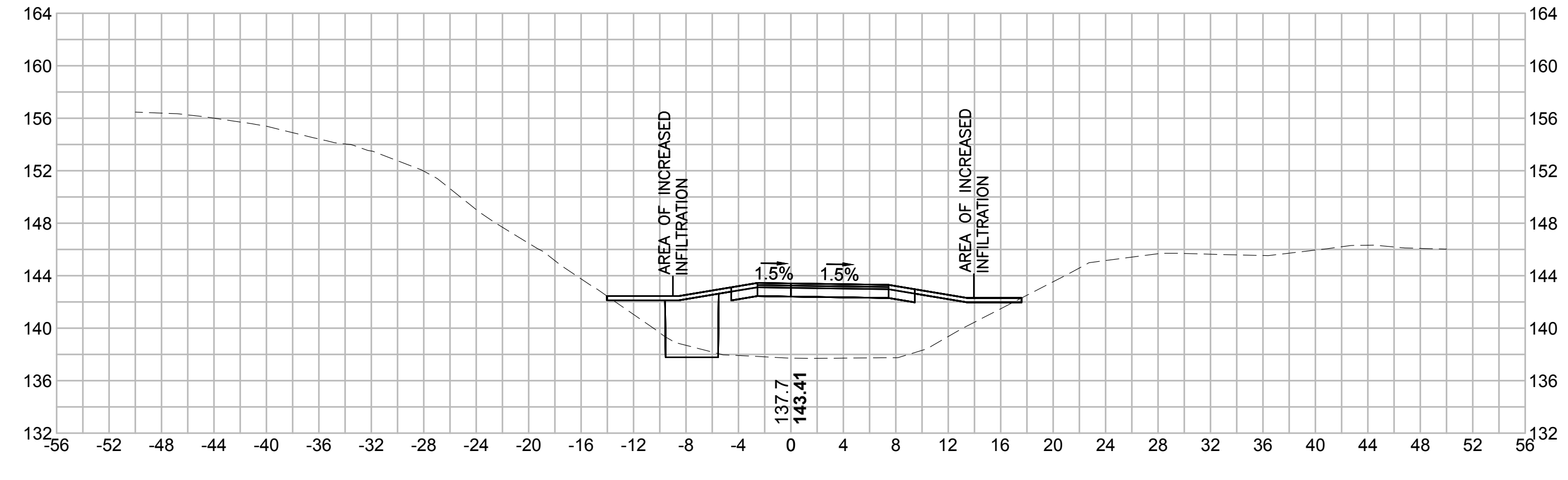
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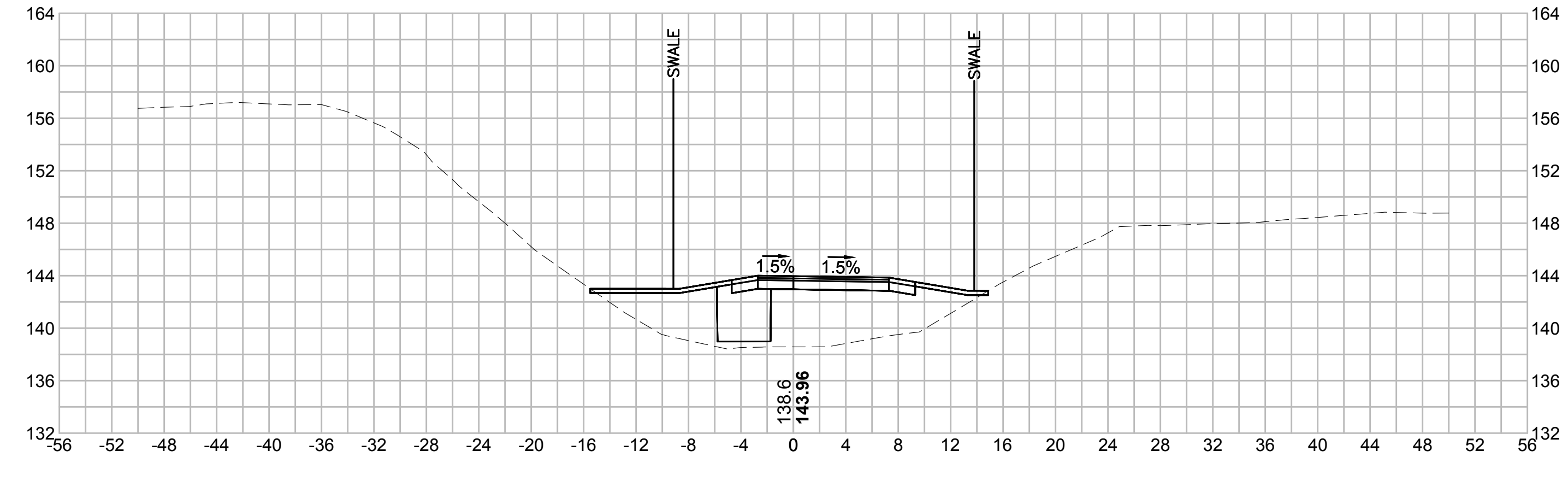
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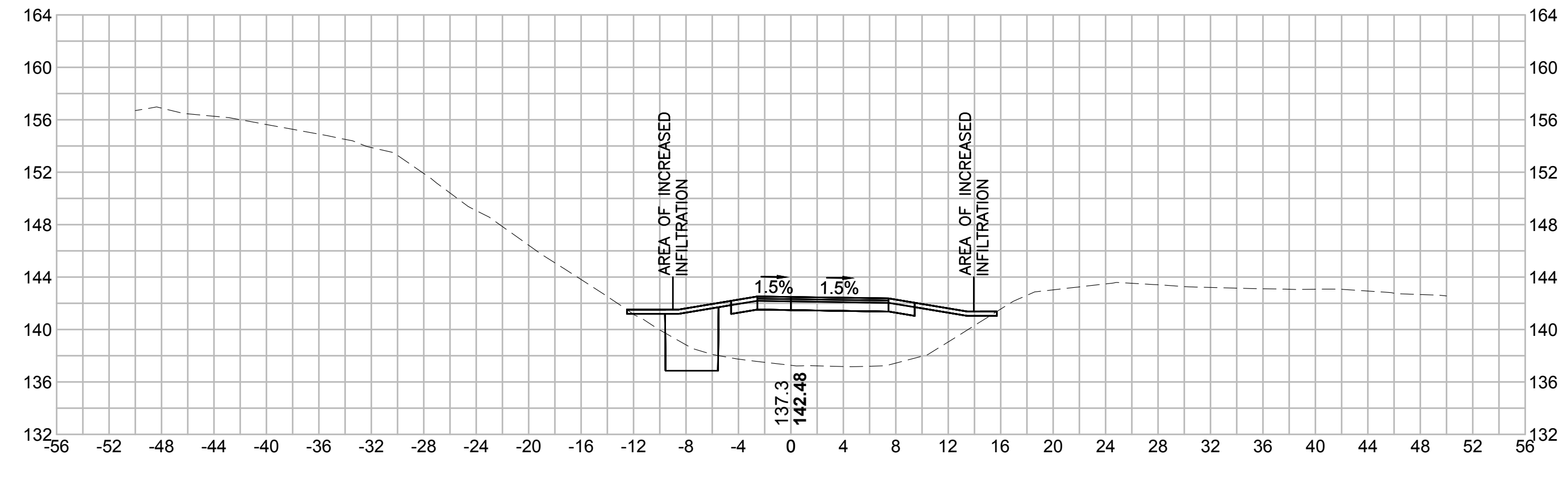
756+00



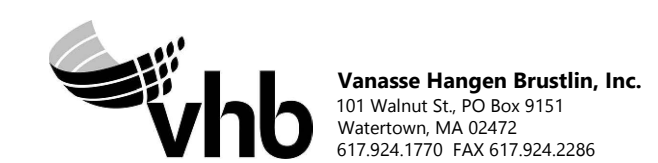
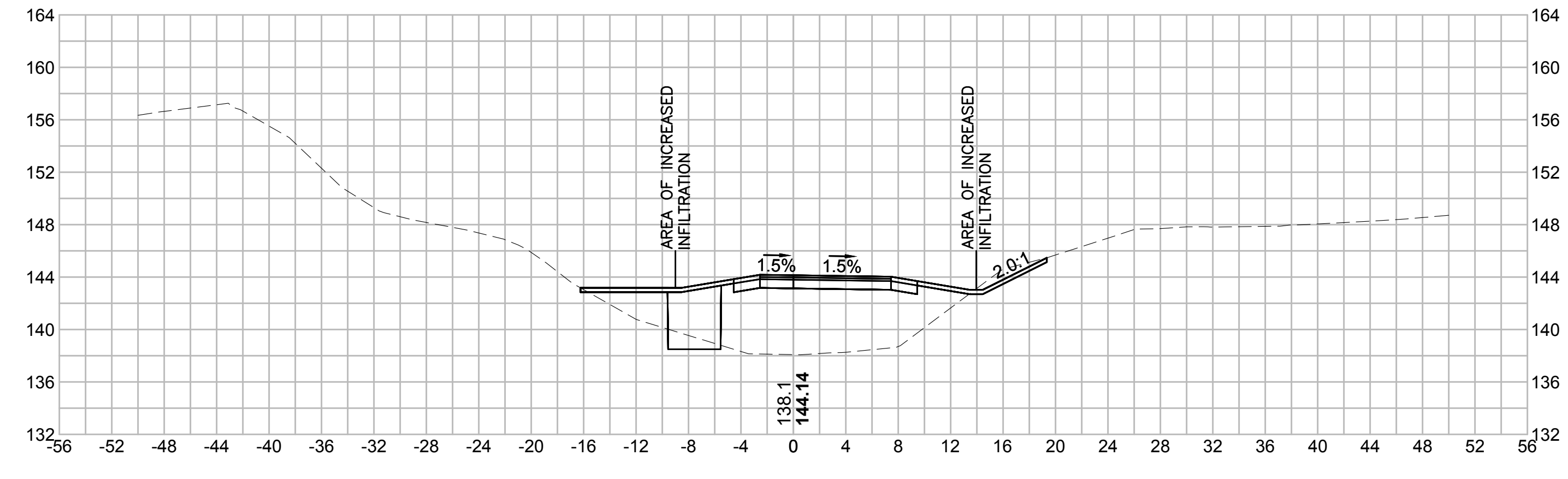
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CH'K D. SK | APPR. MES | DRAWING NO. REV. |
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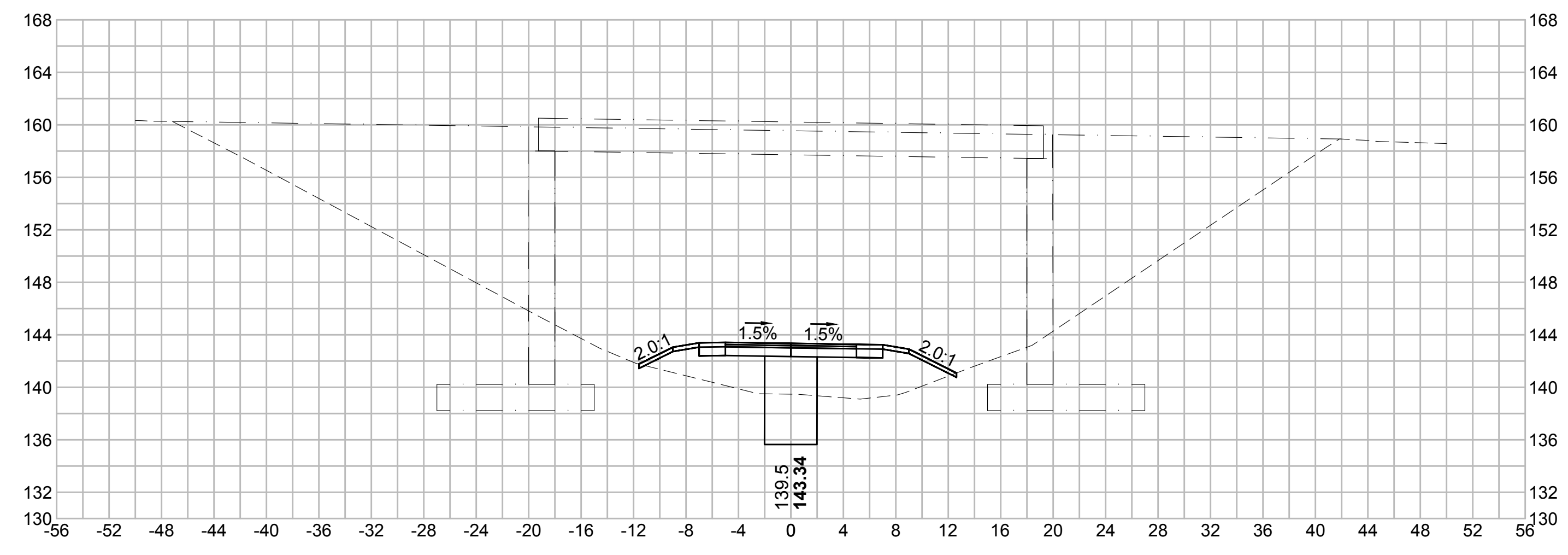
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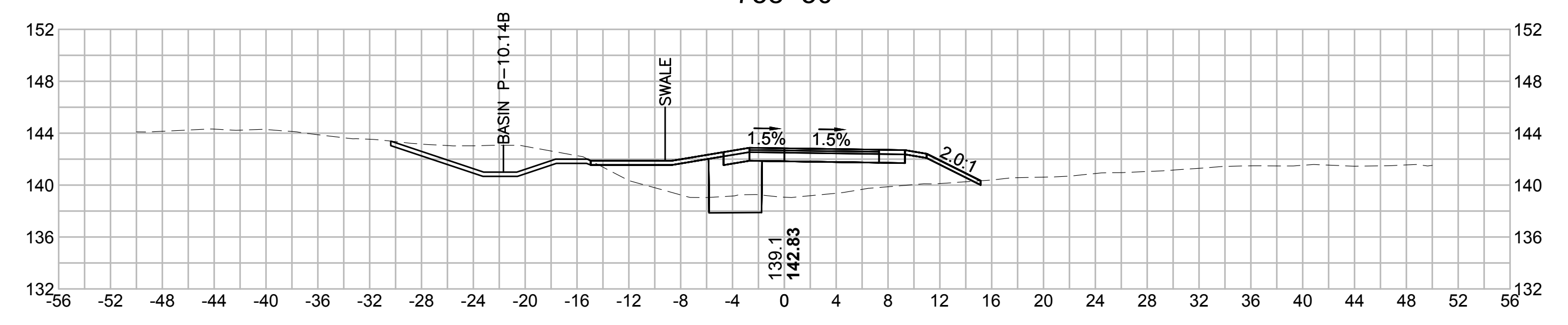
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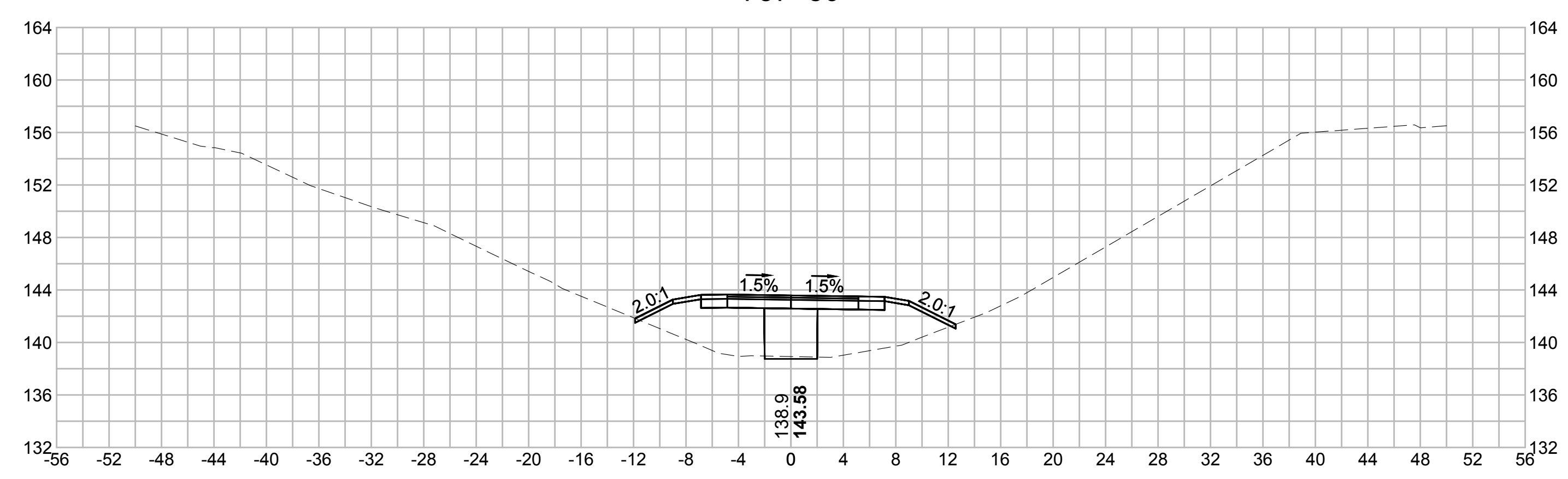
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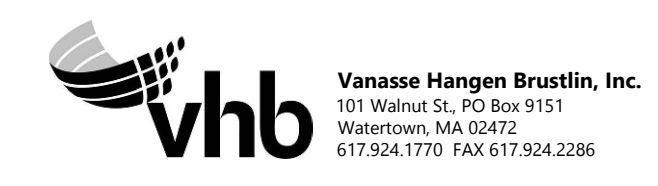
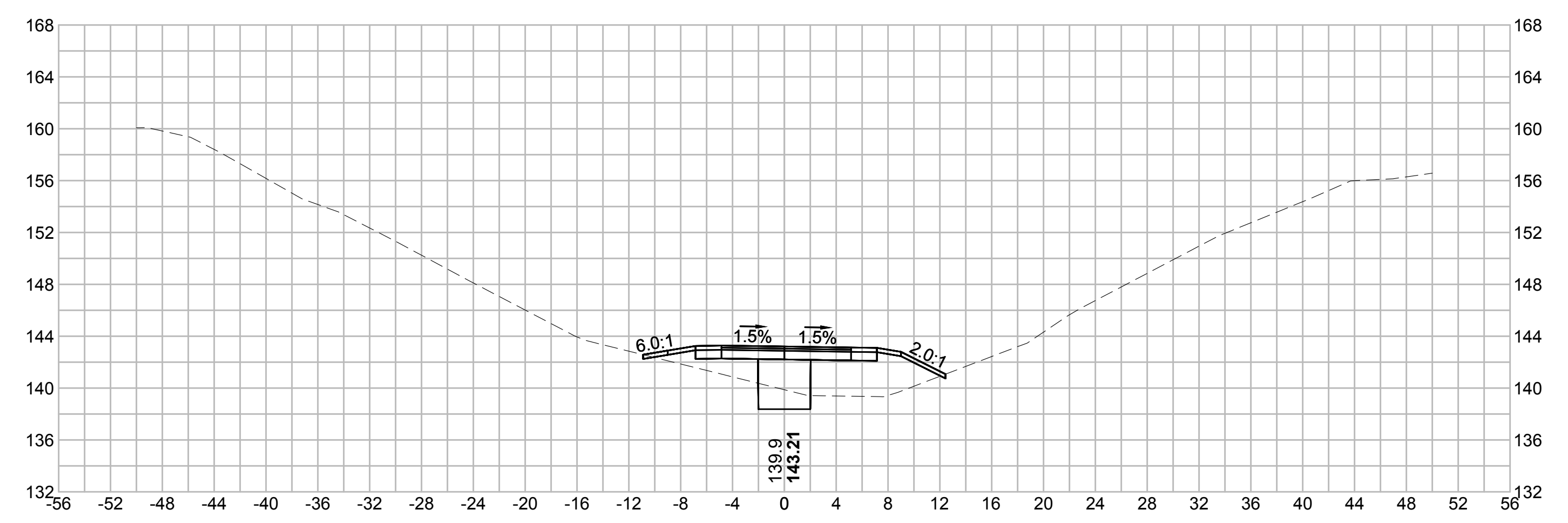
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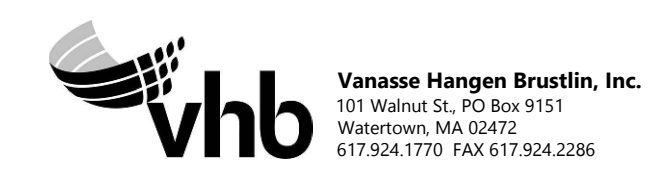
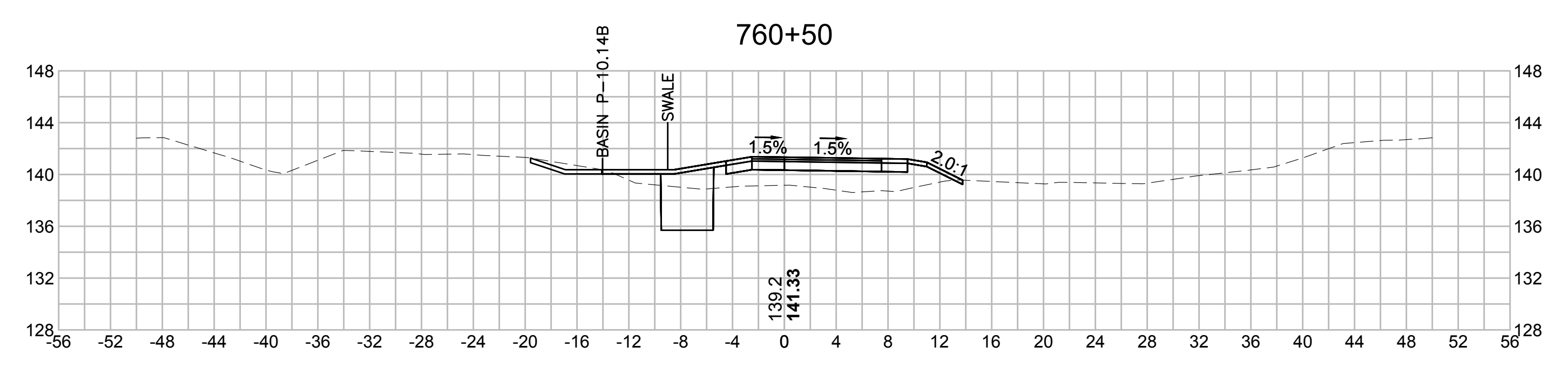
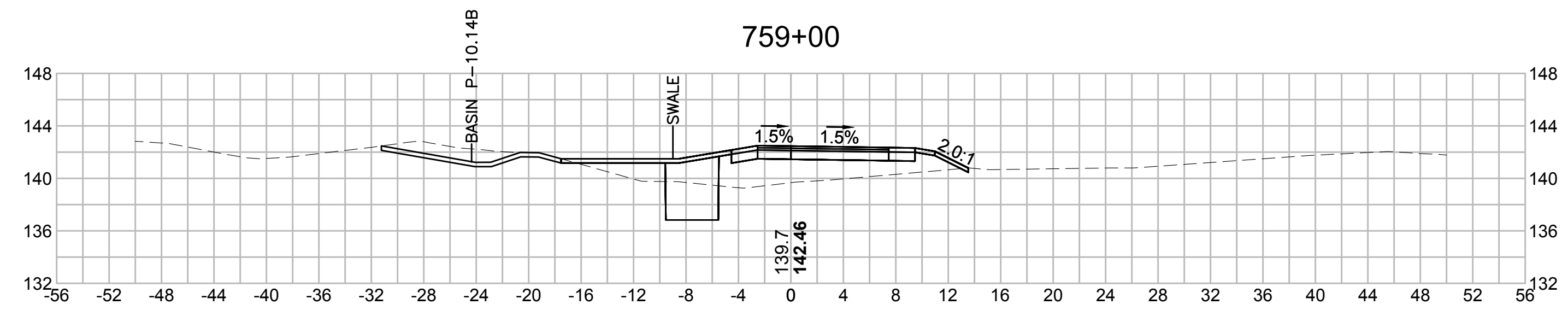
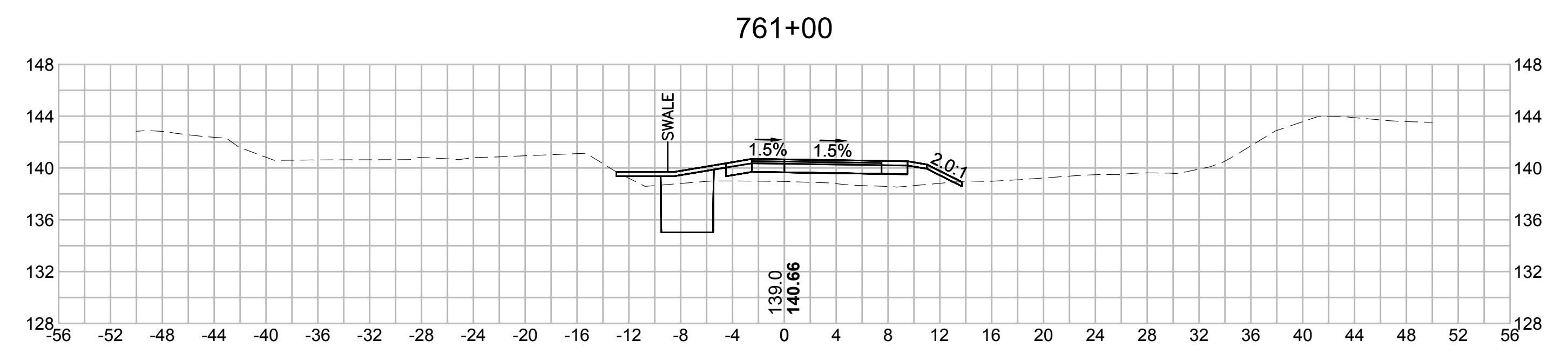
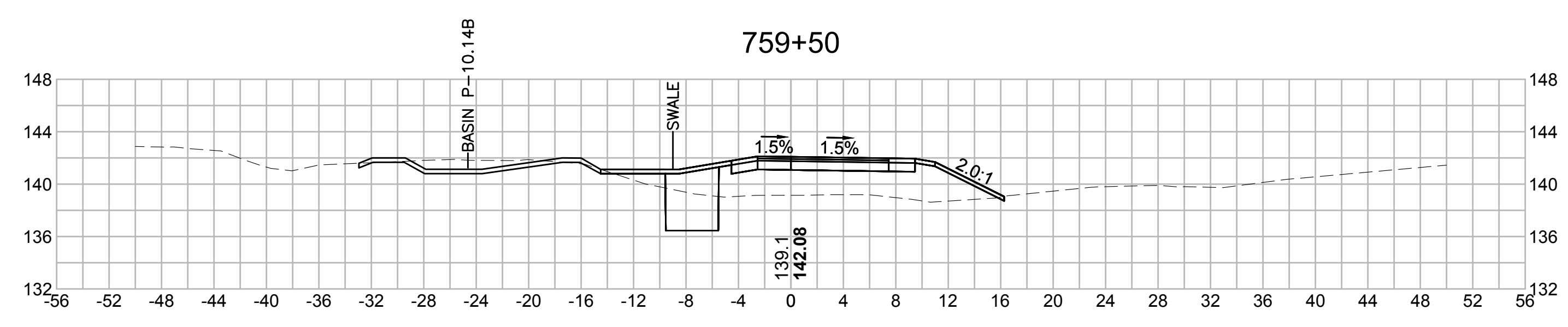
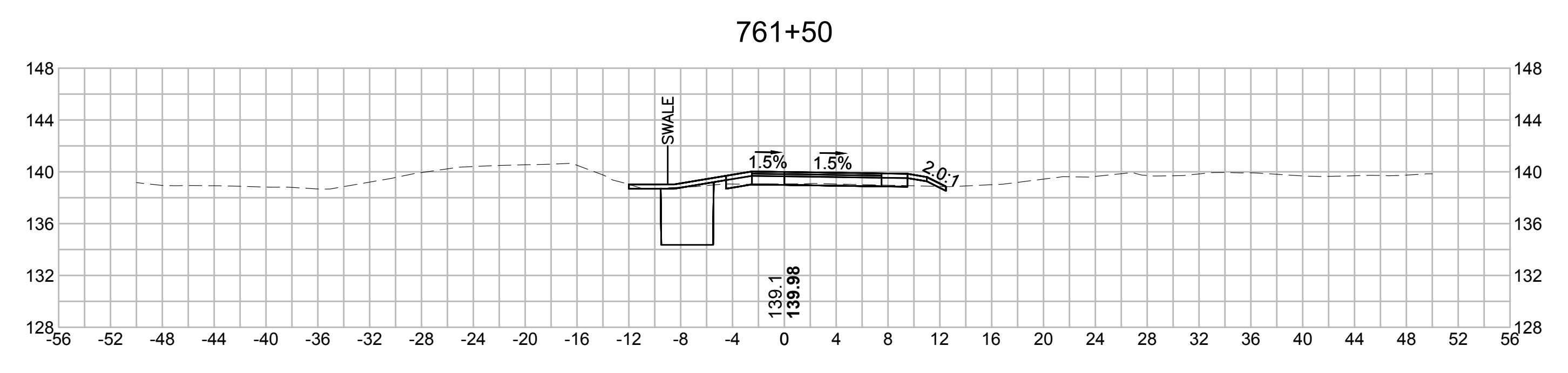
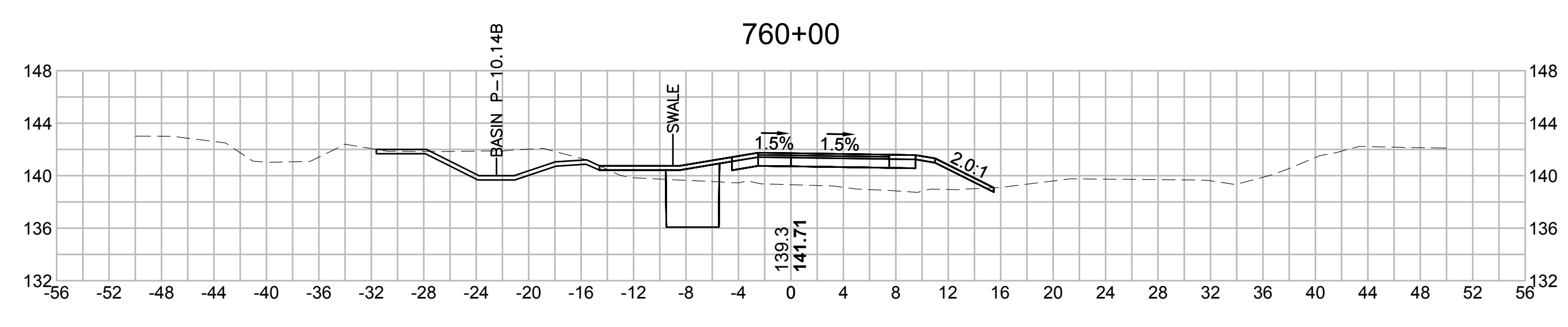
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | | | |
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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. | REV. |

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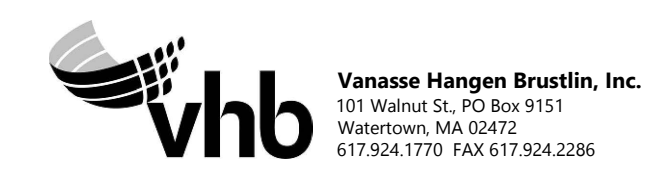
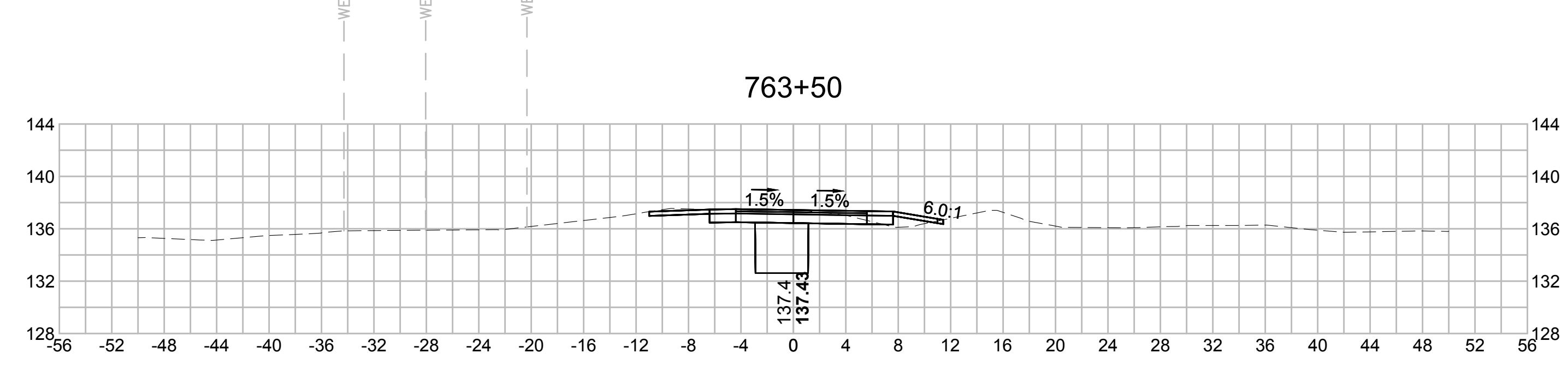
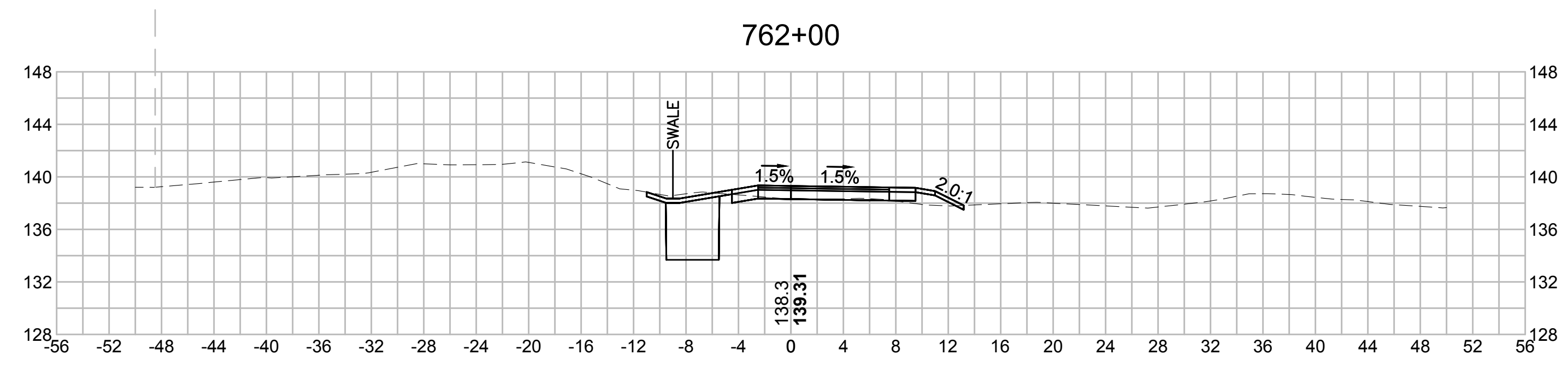
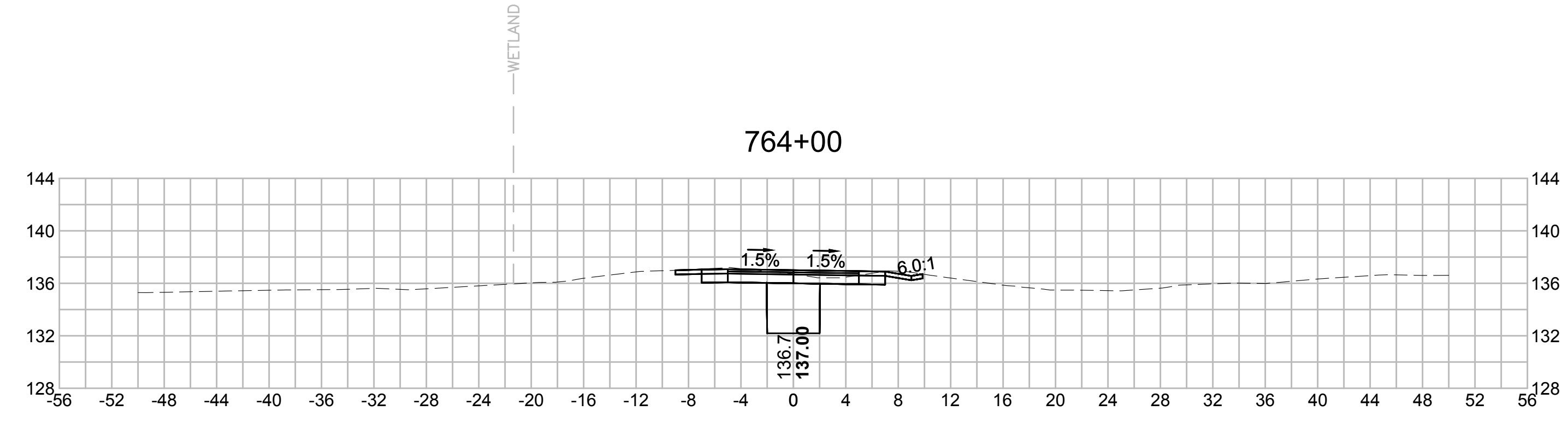
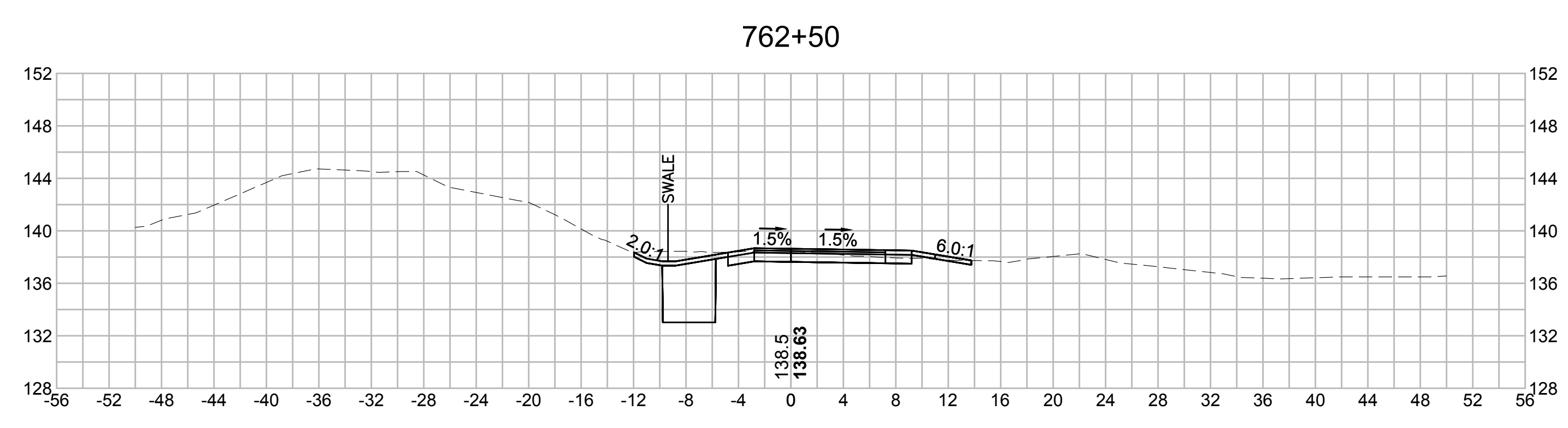
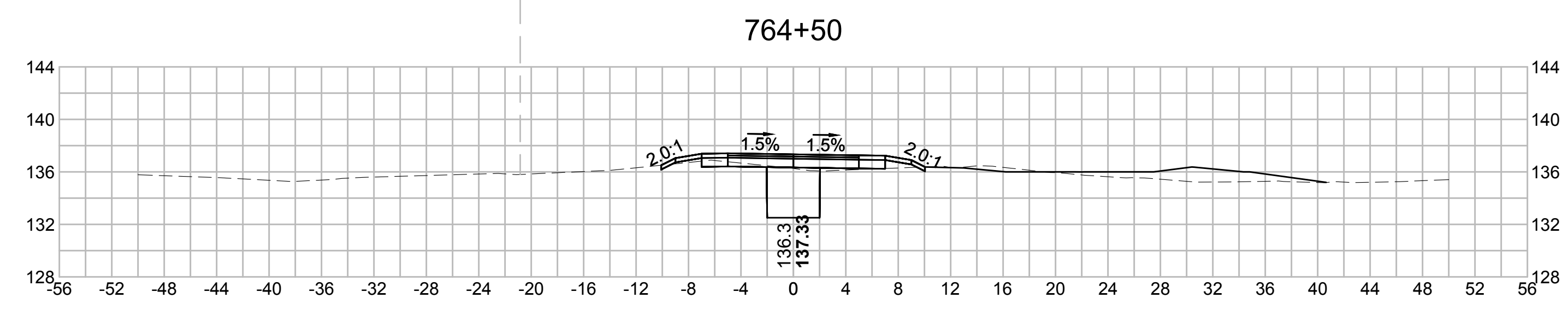
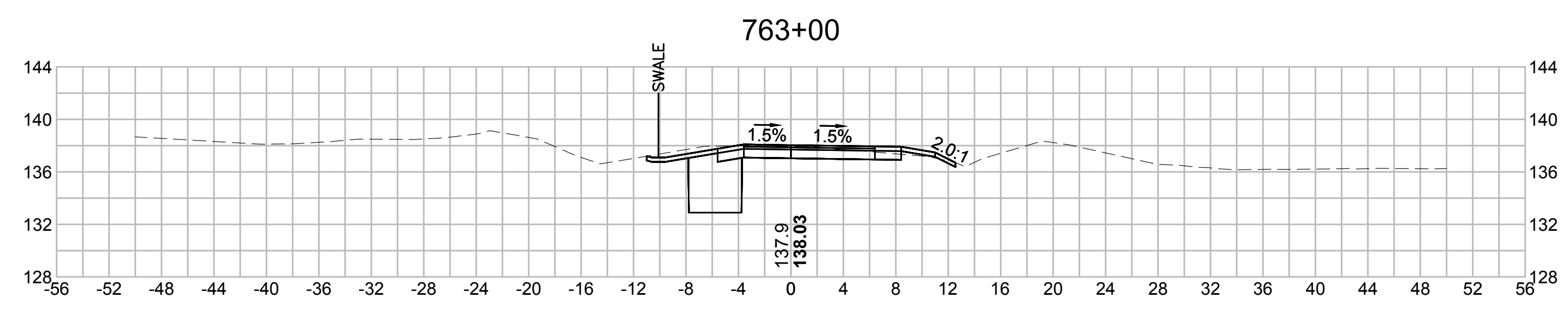
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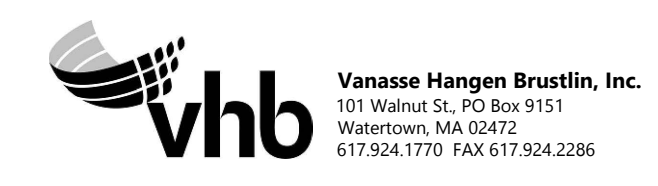
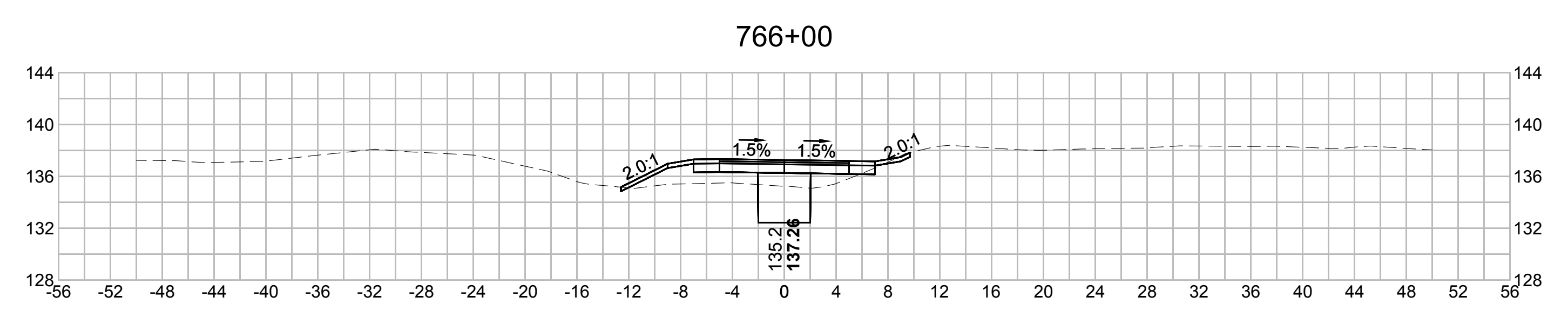
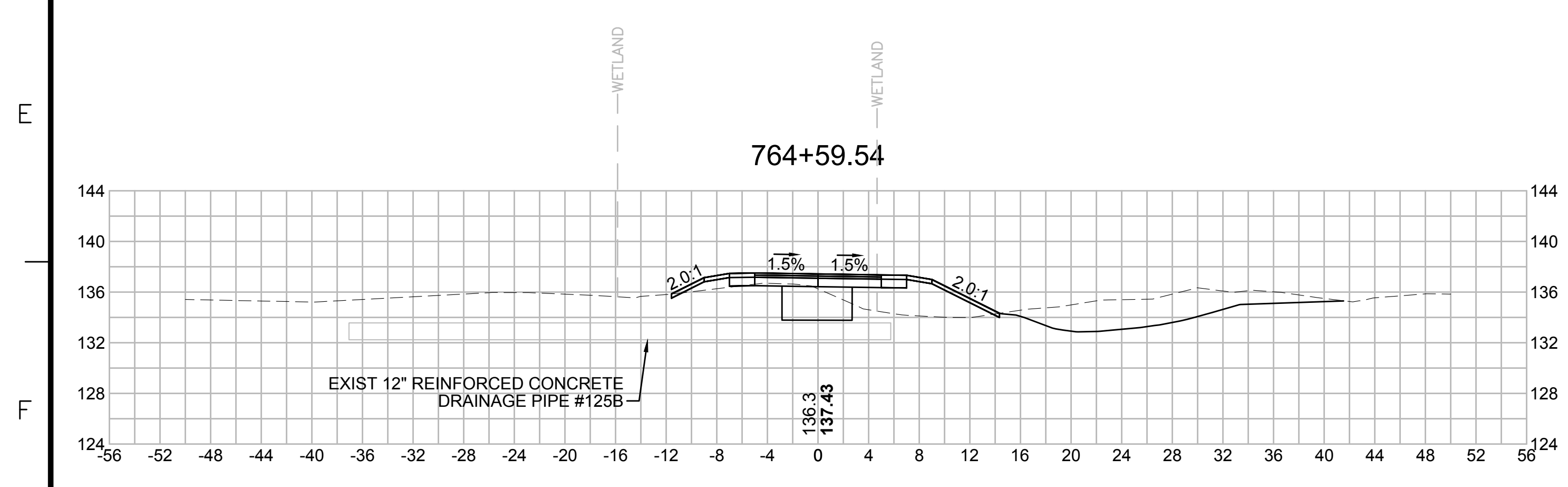
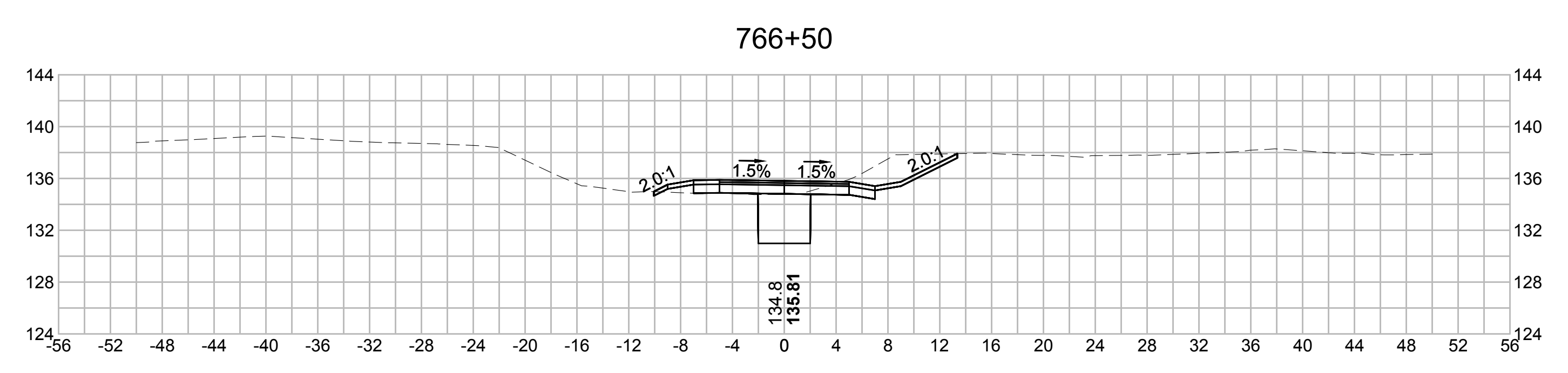
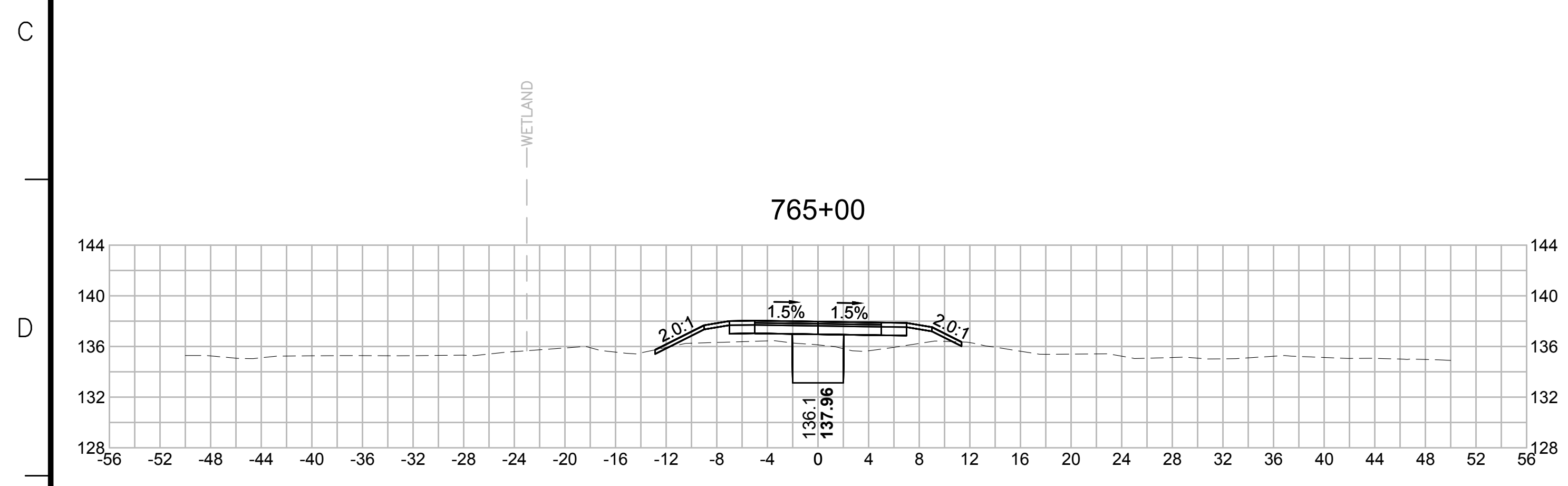
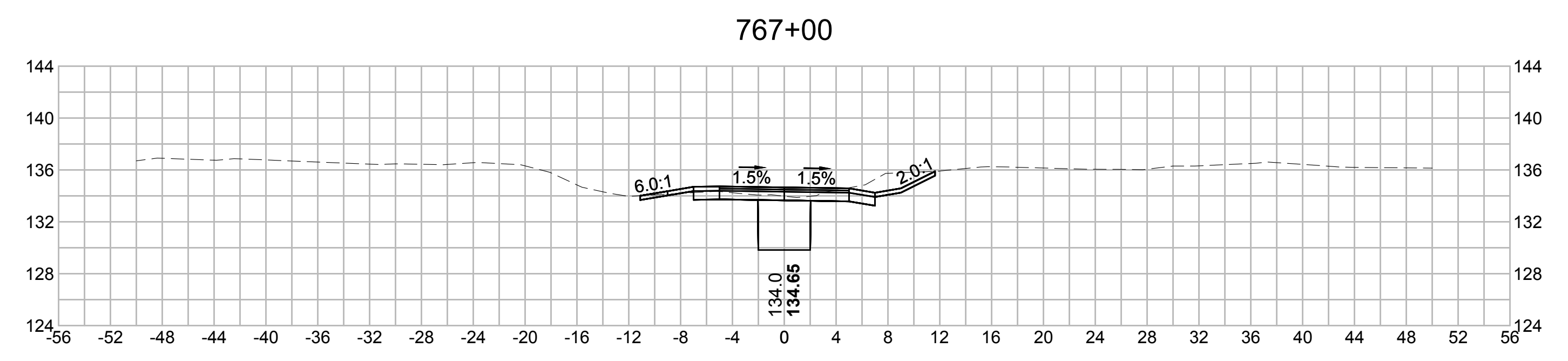
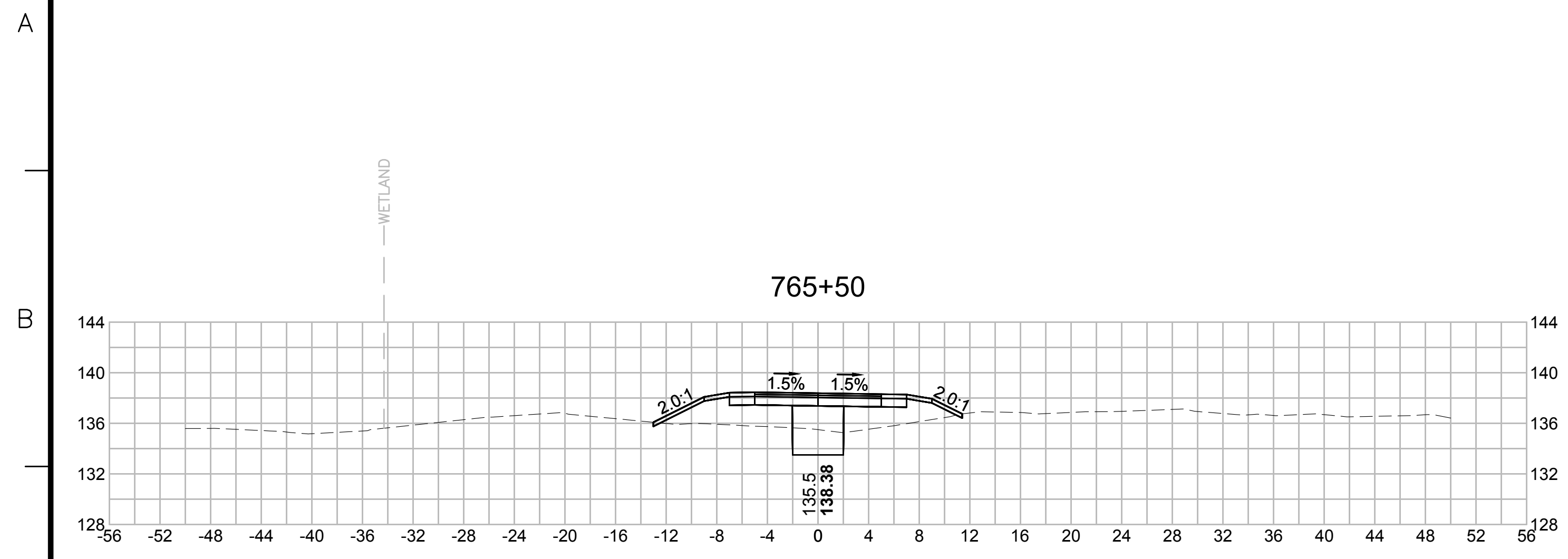
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES | DRAWING NO. | REV. |
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| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT | | | | |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS | | | | |
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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CHK'D. SK | APPR. MES |
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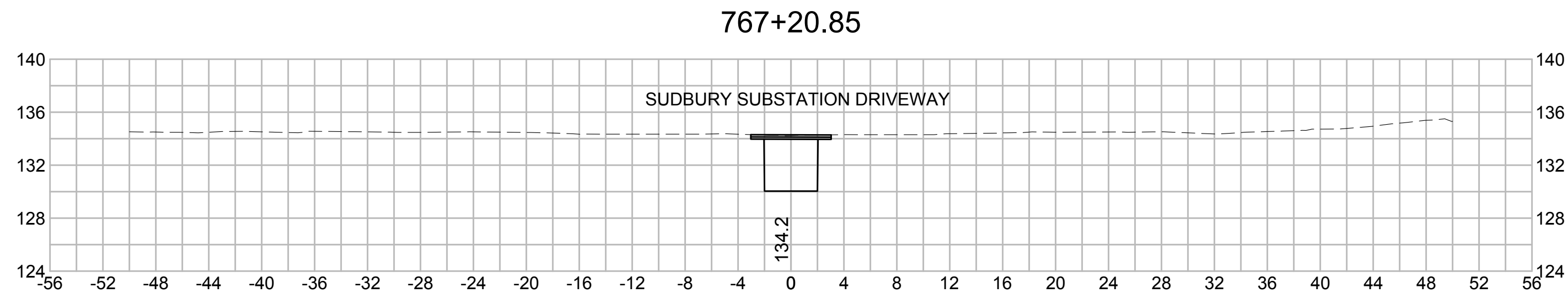
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| SCALE: unless noted 1"=8' | DATE OCT 2020 | DRAWN MS | CH'K D. SK | APPR. MS |
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