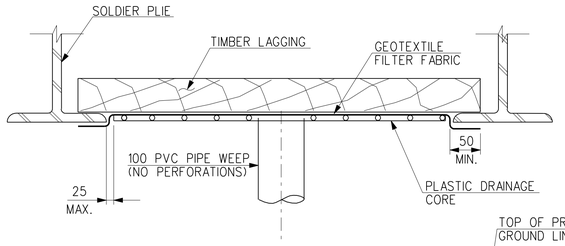
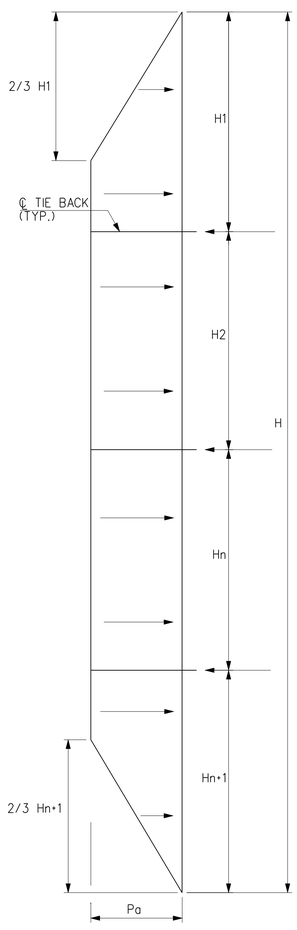


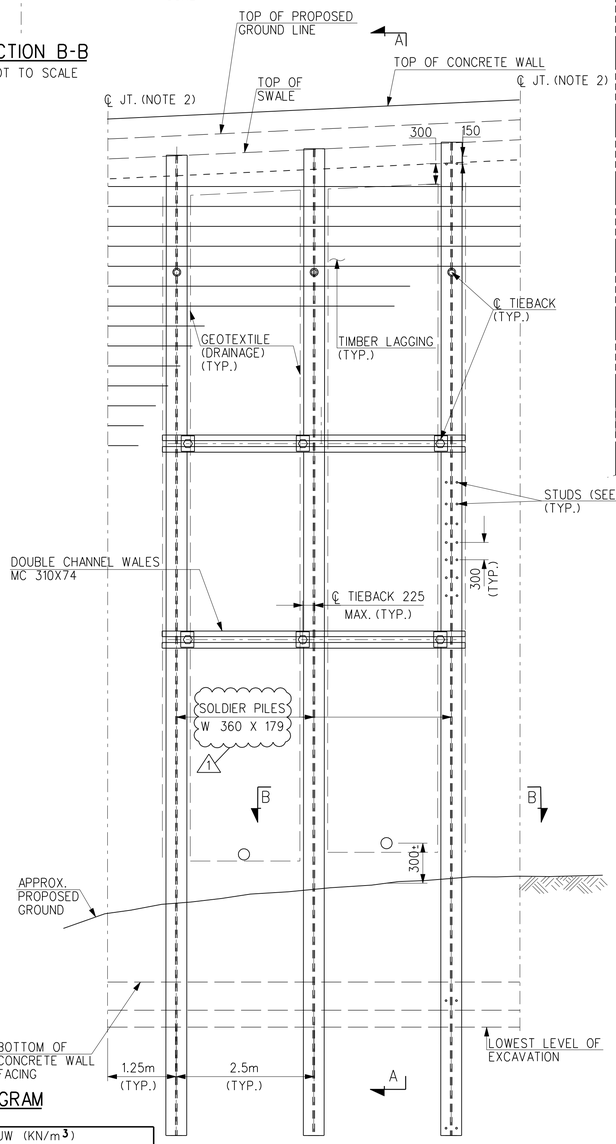
SECTION B-B
NOT TO SCALE



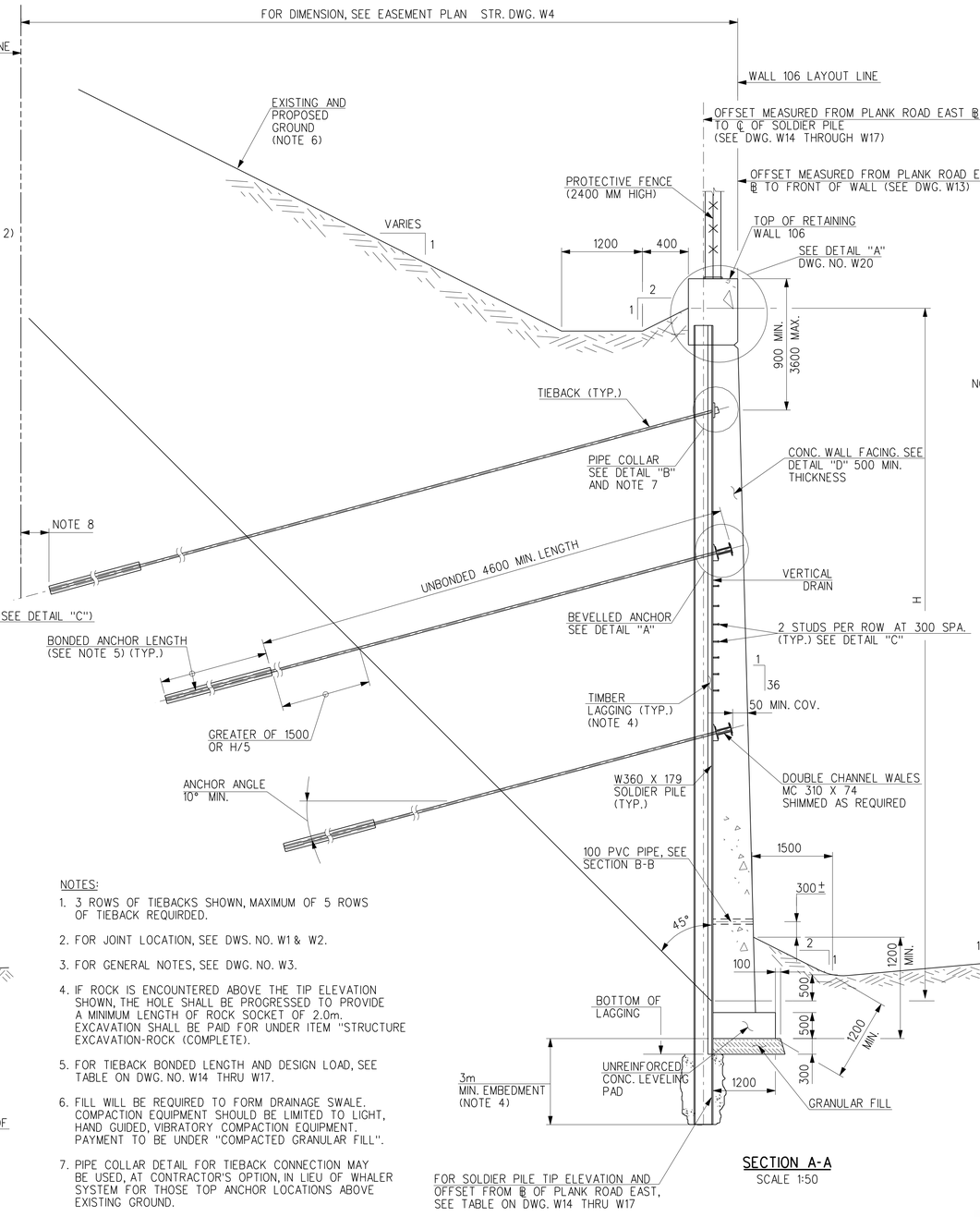
$Pa = (EFUW)H^2/(1.5H-0.5H_1-0.5H_{n+1})$

ASSUMED SOIL PRESSURE DIAGRAM
NOT TO SCALE

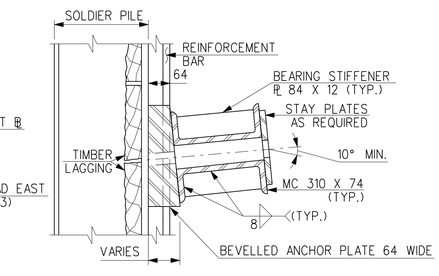
PRE STATIONS	EFUW (KN/m³)
50+423 TO 50+500	7.9
50+500 TO 50+640	9.9
50+640 TO 50+670	7.9
50+670 TO 50+710	7.4



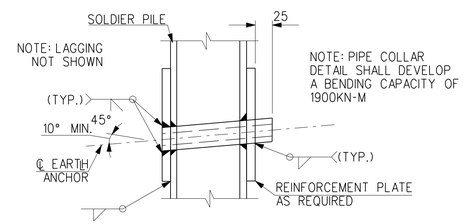
TYPICAL ELEVATION VIEW
SCALE 1:50
NOTE: CONCRETE NOT SHOWN



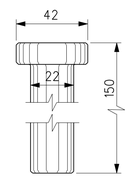
SECTION A-A
SCALE 1:50



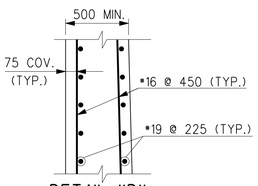
DETAIL "A"
NOT TO SCALE



DETAIL "B"
NOT TO SCALE



DETAIL 'C'
NOT TO SCALE



DETAIL "D"
NOT TO SCALE

NOTES:

1. 3 ROWS OF TIEBACKS SHOWN, MAXIMUM OF 5 ROWS OF TIEBACK REQUIRDED.
2. FOR JOINT LOCATION, SEE DWS. NO. W1 & W2.
3. FOR GENERAL NOTES, SEE DWG. NO. W3.
4. IF ROCK IS ENCOUNTERED ABOVE THE TIP ELEVATION SHOWN, THE HOLE SHALL BE PROGRESSED TO PROVIDE A MINIMUM LENGTH OF ROCK SOCKET OF 2.0m. EXCAVATION SHALL BE PAID FOR UNDER ITEM "STRUCTURE EXCAVATION-ROCK (COMPLETE).
5. FOR TIEBACK BONDED LENGTH AND DESIGN LOAD, SEE TABLE ON DWG. NO. W14 THRU W17.
6. FILL WILL BE REQUIRED TO FORM DRAINAGE SWALE. COMPACTION EQUIPMENT SHOULD BE LIMITED TO LIGHT, HAND GUIDED, VIBRATORY COMPACTION EQUIPMENT. PAYMENT TO BE UNDER "COMPACTED GRANULAR FILL".
7. PIPE COLLAR DETAIL FOR TIEBACK CONNECTION MAY BE USED, AT CONTRACTOR'S OPTION, IN LIEU OF WHALER SYSTEM FOR THOSE TOP ANCHOR LOCATIONS ABOVE EXISTING GROUND.
8. IF ANTICIPATED BONDED ANCHOR LENGTH WOULD CAUSE THE END OF THE ANCHOR TO FALL BEYOND THE EASEMENT LINE, THE TIEBACK SHALL BE REDESIGNED.

Nick Ivanoff
2014.09.29
15:48:25 -04'00'

ADDENDUM NO. 3

REV.	DATE	DESCRIPTION	SHEET. NO.
1	9/29/14	REVISED SOLDIER PILE CALL OUT	

REVISIONS

SCALE AS NOTED

DESIGNER: L. MARQUEZ
DRAFTER: M. MOSLEY
CHECKED BY: B. YIN
DATE CHECKED: 12/2013

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CADD ...\STR-WALLS\Retw106\tibak.dgn
PLOTTED 9/29/2014

AMMANN & WHITNEY
2500 WESTCHESTER AVENUE
3RD FLOOR
HARRISON, NY

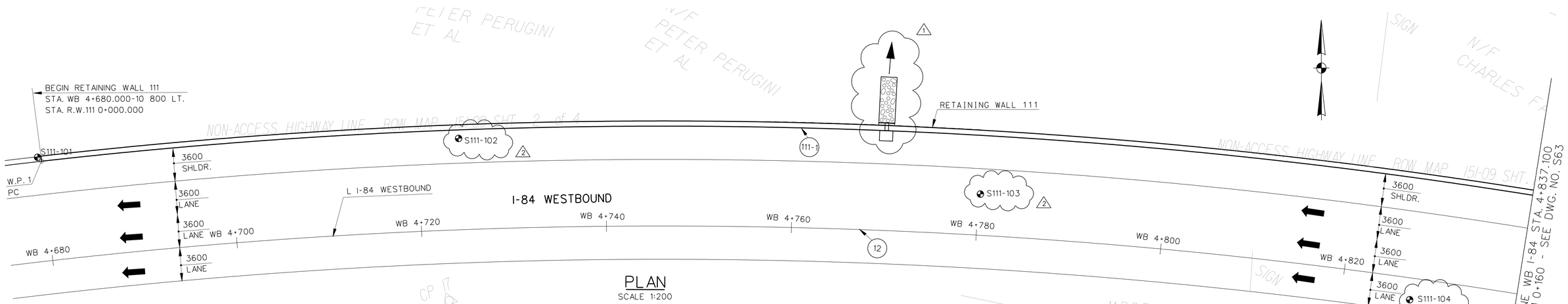
PROJECT TITLE: RECONSTRUCTION OF I-84 CITY OF WATERBURY

TOWN: WATERBURY

DRAWING TITLE: RETAINING WALL 106 ELEVATION, SECTIONS & DETAILS

PROJECT NO.: 151-273
DRAWING NO.: W19
SHEET NO.: 07.01.062.A03

Connecticut Department of Transportation
QA/QC Format Check



PLAN

SCALE 1:200

CURVE NO. 111-1	
BACK FACE WALL NO.111	
P.C.	STA. RW-111 0+000.000
	N 231354.690
	E 285158.223
C.C.	N 230762.686
	E 285225.375
P.C.C.	STA. RW-111 0+337.208
	N 231298.385
	E 285486.151
Δ	32° 25'40.90" Right
T (m)	173.254
L (m)	337.208
R (m)	595.800

CURVE NO. 12	
I-84 WESTBOUND	
P.C.	STA. WB 4+487.551
	N 231291.486
	E 284975.184
C.C.	N 230762.686
	E 285225.374
P.T.	STA. WB 5+058.039
	N 231266.457
	E 285522.762
Δ	55° 52'28.25" Right
T (m)	310.229
L (m)	570.489
R (m)	585.000

CURVE NO. 111-2	
BACK FACE WALL NO.111	
P.C.C.	STA. RW-111 0+337.208
	N 231298.385
	E 285486.151
C.C.	N 230381.373
	E 285060.464
P.T.	STA. RW-111 0+436.960
	N 231251.993
	E 285574.411
Δ	5° 39'11.30" Right
T (m)	49.916
L (m)	99.751
R (m)	1011.000

CURVE DATA

WEEPHOLE INVERT TABLE	
STATION	ELEVATIONS
0+001.500	146.049
0+004.500	146.049
0+007.500	146.049
0+010.500	146.049
0+013.500	146.049
0+016.500	146.049
0+019.500	146.049
0+022.500	146.049
0+025.500	146.049
0+028.500	146.049
0+031.500	146.049
0+034.500	146.049
0+037.500	146.049
0+040.500	146.049
0+043.500	146.049
0+046.500	146.049
0+049.500	146.049
0+052.500	146.049
0+055.500	146.049
0+058.500	146.049
0+061.500	146.049
0+064.500	146.049
0+067.500	146.049
0+070.500	146.049
0+073.500	146.049
0+076.500	146.049
0+079.500	146.049
0+082.500	146.049
0+085.500	146.049

WEEPHOLE INVERT TABLE	
STATION	ELEVATIONS
0+088.500	146.049
0+091.500	146.049
0+094.500	146.049
0+097.500	146.049
0+100.500	146.049
0+103.500	145.977
0+106.500	145.834
0+109.500	145.690
0+112.500	145.546
0+115.500	145.403
0+118.500	145.259
0+121.500	145.116
0+124.500	144.972
0+127.500	144.828
0+130.500	144.685
0+133.500	144.357
0+136.500	143.846
0+139.500	143.335
0+142.500	142.823
0+145.500	142.312
0+148.500	141.801
0+151.500	141.545
0+154.500	141.545
0+157.500	141.545
0+160.500	141.545
0+163.500	141.545
0+166.500	141.545
0+169.500	141.545
0+172.500	141.545

WEEPHOLE INVERT TABLE	
STATION	ELEVATIONS
0+175.500	141.545
0+178.500	141.545
0+181.500	141.545
0+184.500	141.545
0+187.500	141.545
0+190.500	141.545
0+193.500	141.545
0+196.500	141.545
0+199.500	141.545
0+202.500	141.545
0+205.500	141.545
0+208.500	141.545
0+211.500	141.545
0+214.500	141.545
0+217.500	141.545
0+220.500	141.545
0+223.500	141.581
0+226.500	141.652
0+229.500	141.723
0+232.500	141.794
0+235.500	141.865
0+238.500	141.936
0+241.500	142.007
0+244.500	142.078
0+247.500	142.149
0+250.500	142.220
0+253.500	142.291
0+256.500	142.362
0+259.500	142.433

WEEPHOLE INVERT TABLE	
STATION	ELEVATIONS
0+262.500	142.504
0+265.500	142.575
0+268.500	142.646
0+271.500	142.717
0+274.500	142.788
0+277.500	142.859
0+280.500	142.930
0+283.500	143.001
0+286.500	143.072
0+289.500	143.143
0+292.500	143.214
0+295.500	143.285
0+298.500	143.356
0+301.500	143.427
0+304.500	143.498
0+307.500	143.569
0+310.500	143.640
0+313.500	143.711
0+316.500	143.782
0+319.500	143.853
0+322.500	143.924
0+325.500	143.995
0+328.500	144.066
0+331.500	144.137
0+334.500	144.208
0+337.500	144.296
0+340.500	144.402
0+343.500	144.507
0+346.500	144.613

WEEPHOLE INVERT TABLE	
STATION	ELEVATIONS
0+349.500	144.719
0+352.500	144.824
0+355.500	144.930
0+358.500	145.036
0+361.500	145.141
0+364.500	145.247
0+367.500	145.300
0+370.500	145.300
0+373.500	145.300
0+376.500	145.300
0+379.500	145.300
0+382.500	145.300
0+385.500	145.300
-	-
-	-
0+394.500	145.300
0+397.500	145.300
0+400.500	145.300
0+403.500	145.342
0+406.500	145.425
0+409.500	145.509
0+412.500	145.593
0+415.500	145.676
0+418.500	145.760
0+421.500	145.843
0+424.500	145.927
0+427.500	146.010
0+430.500	146.094
0+433.500	146.178
0+436.500	146.261

CONCRETE DISTRIBUTION CIP ALTERNATIVE (CIP SIGN SUPPORT INCLUDED)	
ITEM	TOTAL
SUBSTRUCTURE	1750 m^3
FOOTINGS	1800 m^3
TOTAL	3550 m^3

WORKING POINT COORDINATES			
LOCATION	W.P. NO.	NORTHING	EASTING
BEGIN R.W. 111	1	231354.690	285158.223
P.C.C.	2	231298.385	285486.151
END R.W. 111	3	231251.933	285574.411
WORKING POINTS TAKEN AT BACK FACE OF WALL			

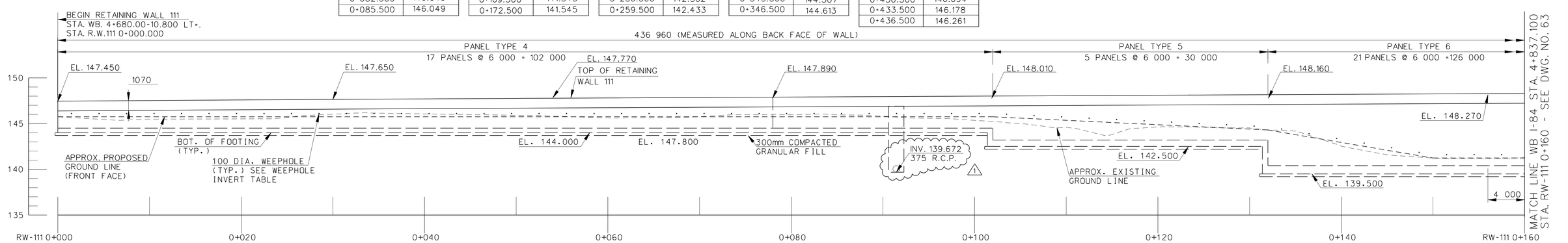
CONCRETE DISTRIBUTION MODULAR/M.S.E. ALTERNATIVE (FOR CIP SIGN SUPPORT)	
ITEM	TOTAL
SUBSTRUCTURE	80 m^3
FOOTINGS	25 m^3
TOTAL	105 m^3

NOTES:

1. FOR RETAINING WALL LOCATION, SEE DWG NO. S1.
2. FOR GENERAL NOTES, SEE DWG NO. S2.
3. FOR TYPICAL ROADWAY SECTION, SEE DWG. NO. S65.
4. MAXIMUM DESIGN FOUNDATION PRESSURE, FOR CIP ALTERNATIVE 287 KPa (STRENGTH IV) LRFD.
5. FOR PANEL TYPE 4,5,6 DIMENSIONS AND DETAILS, SEE DWG. NO. S8.
6. FOR REINFORCEMENT DETAILS, SEE DWG. NO. S8.
7. FOR MISCELLANEOUS DETAILS, SEE DWG. NOs. S8 & S9.
8. FOR PROPRIETARY WALL SYSTEM ALTERNATIVE TYPES, WALL NOTES AND ALLOWABLE PRESSURE, SEE DWG. NO. S6.
9. FOR PAY LIMITS SEE, DWG. NO. S6.
10. CONTRACTOR SHALL LIMIT HIS/HER CONSTRUCTION OPERATIONS SO CONSTRUCTION WITHIN OR ADJACENT TO WETLANDS DOES NOT ENCROACH MORE THAN 0.60M BEYOND THE FACE OF WALL AS SHOWN ON DWG. NO. S6.
11. COST FOR THE CIP WALL SECTION FOR OVERHEAD SIGN SUPPORT IS INCLUDED IN THE LUMP SUM ITEM FOR SITE NO. 9

2000 BORING

TABLE OF QUANTITIES		
ITEM	UNITS	QUANTITY
RETAINING WALL (SITE NO. 9)	L.S.	1



REAR FACE ELEVATION

SCALE 1:200

ADDENDUM NO. 3

REV.	DATE	DESCRIPTION	SHEET. NO.
2	92614	REVISED BORING LOG DESIGNATION	
1	91014	DRAINAGE SYSTEM MODIFICATION	

REVISIONS

SCALE AS NOTED

DESIGNER: L. MARQUEZ
DRAFTER: M. MOSLEY
CHECKED BY: B. YIN
DATE CHECKED: 12/2013

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CADD ...\retw111\gpl&el111a.dgn
PLOTTED 9/29/2014

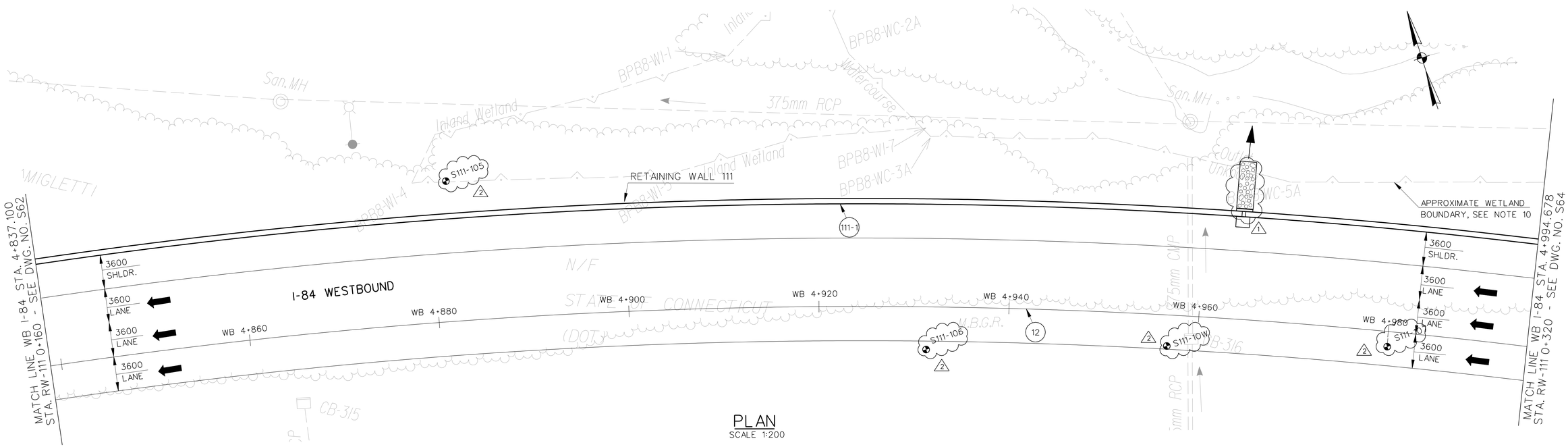
AMMANN & WHITNEY
2500 WESTCHESTER AVENUE
3RD FLOOR
HARRISON, NY

PROJECT TITLE:
RECONSTRUCTION OF I-84
CITY OF WATERBURY

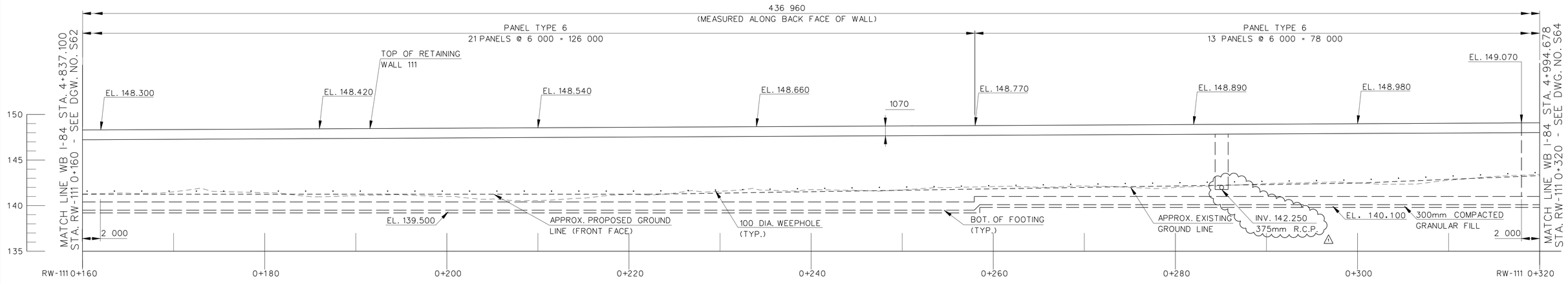
TOWN: WATERBURY

DRAWING TITLE:
RETAINING WALL 111
PLAN AND ELEVATION DWG. 1 OF 3

PROJECT NO.: 151-273
DRAWING NO.: S62
SHEET NO.: 07.01.063.A03



PLAN
SCALE 1:200



REAR FACE ELEVATION
SCALE 1:200

NOTES

SEE DRAWING NO. S62 FOR NOTES AND CURVE DATA.

ADDENDUM NO. 3

REV.	DATE	DESCRIPTION	SHEET. NO.
2	92614	REVISED BORING LOG DESIGNATION	
1	91014	DRAINAGE SYSTEM MODIFICATION	

REVISIONS

SCALE AS NOTED

DESIGNER: L. MARQUEZ
DRAFTER: M. MOSLEY
CHECKED BY: B. YIN
DATE CHECKED: 12/2013

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CADD ...\etwr111\gpl&el111b.dgn
PLOTTED 9/29/2014

AMMANN & WHITNEY
2500 WESTCHESTER AVENUE
3RD FLOOR
HARRISON, NY

PROJECT TITLE:
RECONSTRUCTION OF I-84
CITY OF WATERBURY

TOWN: WATERBURY

DRAWING TITLE:
RETAINING WALL 111
PLAN AND ELEVATION DWG. 2 OF 3

PROJECT NO.: 151-273
DRAWING NO.: S63
SHEET NO.: 07.01.124.A03