

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	D7A

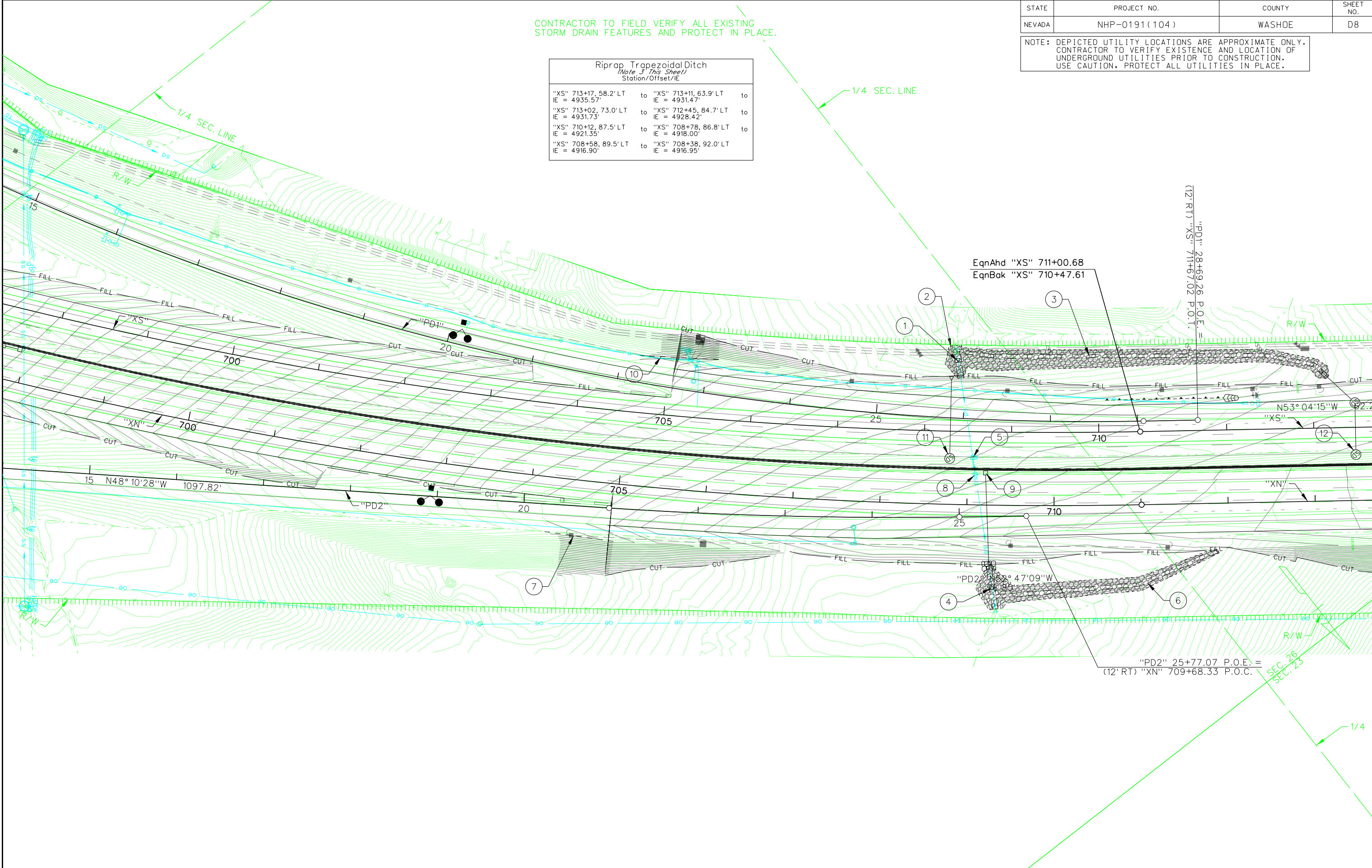
- ① "PD3" 15+36 REMOVE EXISTING DROP INLET, 16.3' RT AND 18" RCP TO "PD3" 15+34, 22.1' LT. REMOVE END SECTION AT OUTLET.
- ② "PD3" 21+54 INSTALL 48" X 189' RCP (CLASS V, CLASS A BEDDING) FROM "PD3" 21+54, 132.3' RT (UIE = 4867.16', LIE = 4862.10') AND CONNECT TO MANHOLE AT "PD3" 19+82, 82.9' RT. INSTALL PRECAST END SECTION AT INLET. GRADE ABOVE PIPE PER ENGINEER AT NO DIRECT PAYMENT. (SEE SHEET DP4)
- ③ "PD3" 19+82 CONSTRUCT TYPE 3 MODIFIED MANHOLE, 82.9' RT (COVER ELEV. = 4886.40', H = 24.40'). INSTALL 48" X 203' RCP (CLASS V, CLASS A BEDDING) AND CONNECT TO MANHOLE AT "PD3" 17+75, 76.2' RT (UIE = 4862.00', LIE = 4852.22'). (SEE SHEET DP4, DP5)
- ④ "PD3" 17+75 OUTLET OF EXISTING 36" RCP, 76.2' RT. REMOVE EXISTING END SECTION. CONSTRUCT TYPE 4 MANHOLE, 76.2' RT (COVER ELEV. = 4874.85', H = 25.85'). INSTALL 48" X 229' RCP (CLASS V, CLASS A BEDDING) AND CONNECT TO MANHOLE AT "PD3" 15+42, 88.0' RT (UIE = 4849.00', LIE = 4833.10'). CONNECT TO EXISTING RCP. (SEE SHEET DP4, DP5)
- ⑤ "PD3" 15+42 CONSTRUCT TYPE 3 MODIFIED MANHOLE, 88.0' RT (COVER ELEV. = 4857.03', H = 24.03'). INSTALL 48" X 233' RCP (CLASS V, CLASS A BEDDING) AND CONNECT TO MANHOLE AT "PD3" 13+03, 79.3' RT (UIE = 4833.00', LIE = 4822.67'). (SEE SHEET DP4, DP5)
- ⑥ "XN" 686+74 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 36.8' LT. (GRATE ELEV. = 4859.12', H = 3.00', A = 3.00'). INSTALL 18" X 72' RCP (UIE = 4856.12', LIE = 4855.91') TO "XS" 686+62, 27.1' LT. INSTALL SAFETY END SECTION AT OUTLET. (SEE SHEET DP3)
- ⑦ "XN" 688+48 REMOVE EXISTING DROP INLET, 40.3' LT AND VERTICAL CMP FROM DROP INLET TO RCP. REMOVE 36" RCP FROM "XS" 688+32, 39.4' RT TO "XN" 688+48, 33.6' LT TO BE FLUSH WITH PROPOSED DROP INLET.
- ⑧ "XN" 688+48 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 36.6' LT. (GRATE ELEV. = 4866.36', H = 7.94', A = 5.00'). INSTALL 36" X 5' RCP (UIE = MATCH EXIST., LIE = 4858.42') AND CONNECT TO EXIST. RCP AT "XS" 688+32, 39.4' RT WITH CONCRETE COLLAR. VERIFY DEPTH PRIOR TO CONSTRUCTION. CONNECT DROP INLET TO EXISTING RCP.
- ⑨ "XS" 697+13 REMOVE DROP INLET, 36.8' RT AND 2' OF VERTICAL CMP. CONSTRUCT CMP RISER CAP. (SEE SHEET DD1)
- ⑩ "XN" 697+49 REMOVE EXISTING DROP INLET, 34.0' LT AND VERTICAL CMP FROM DROP INLET TO RCP. REMOVE SLOTTED DRAIN. REMOVE 48" RCP INSIDE OF PROPOSED MANHOLE TO BE FLUSH WITH INSIDE WALLS. CONSTRUCT TYPE 4 MANHOLE, 34.0' LT. (COVER ELEV. = 4907.15', H = 7.85'). CONNECT TO EXISTING RCP. VERIFY DEPTH PRIOR TO CONSTRUCTION. (SEE SHEET DD6, DP6)
- ⑪ "XN" 697+63 INSTALL STORMWATER TREATMENT VAULT, 31.5' LT TO CENTER. (COVER ELEV. = 4907.79'). INSTALL 12" X 8' RCP (UIE = 4903.45', LIE = 4903.05'). CONNECT TO MANHOLE AT "XN" 697+49, 34.0' LT. (SEE SHEET DD6, DP6)
- ⑫ "XN" 697+73 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 37.0' LT. (GRATE ELEV. = 4908.03', H = 4.10', A = 2.50'). INSTALL 18" X 21' RCP (UIE = 4904.93', LIE = 4903.05') AND CONNECT TO MANHOLE AT "XN" 697+49, 34.0' LT. INSTALL 12" X 8' RCP (UIE = 4903.93', LIE = 4903.55') FROM DROP INLET TO TREATMENT VAULT AT "XN" 697+63, 31.5' LT. (SEE SHEET DD6, DP6)
- ⑬ "XN" 697+93 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 37.0' LT. (GRATE ELEV. = 4908.82', H = 3.00', A = 3.00'). INSTALL 18" X 17' RCP (UIE = 4905.82', LIE = 4905.03') AND CONNECT TO DROP INLET AT "XN" 697+73, 37.0' LT. (SEE SHEET DP6)
- ⑭ "PD3" 23+52 OUTLET OF EXISTING 18" CMP, 181.6' RT. REMOVE END SECTION. INSTALL 18" CMP DOWN DRAIN TO "PD3" 22+40, 162.5' RT. CONNECT TO EXISTING DOWN DRAIN AT INLET. CONSTRUCT CLASS 400 RIPRAP APRON AT OUTLET (RIPRAP A = 7.0').
- ⑮ "PD3" 20+90 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 29.0' RT. (GRATE ELEV. = 4905.84', H = 5.00', A = 3.00'). INSTALL 18" X 118' RCP (UIE = 4900.84', LIE = 4882.40') AND CONNECT TO MANHOLE AT "PD3" 19+82, 82.9' RT. (SEE SHEET DP5)
- ⑯ "XS" 686+88 CONSTRUCT BITUMINOUS TRAPEZOIDAL DITCH FROM "XS" 686+88, 36.8' LT (IE = 4858.25', W = 0.0') TO "XS" 686+62, 35.1' LT (IE = 4855.89', W = 4.0') TO "XS" 686+29, 36.8' LT (IE = 4855.62', W = 0.0'). (RSS = 2:1, LSS = VARIES TO EDGE OF PROPOSED PAVEMENT, H = VARIES) WRAP AROUND END SECTION PER ENGINEER. BLEND WITH ROADSIDE DITCH AT INLET AND OUTLET AT NO DIRECT PAYMENT.
- ⑰ "PD3" 17+80 INSTALL 30" X 28' RCP FROM "PD3" 17+80, 106.9' RT (UIE = 4864.94', LIE = 4864.00') AND CONNECT TO MANHOLE AT "PD3" 17+75, 76.2' RT. INSTALL PRECAST END SECTION AT INLET. GRADE AROUND INLET TO DRAIN PER ENGINEER. CONSTRUCT EARTHEN DIKE FROM "PD3" 17+50, 45.6' RT (DIKE ELEV. = 4881.00') TO "PD3" 17+60, 152.9' RT (DIKE ELEV. = 4869.00'). (LSS = 3:1, RSS = 4:1, TW = 4.0'). (SEE SHEET DP5)
- ⑱ "PD3" 15+49 INSTALL 30" X 25' RCP FROM "PD3" 15+49, 113.8' RT (UIE = 4848.99', LIE = 4848.19') AND CONNECT TO MANHOLE AT "PD3" 15+42, 88.0' RT. INSTALL PRECAST END SECTION AT INLET. GRADE AROUND INLET TO DRAIN PER ENGINEER. CONSTRUCT EARTHEN DIKE FROM "PD3" 15+08, 48.2' RT (DIKE ELEV. = 4865.00') TO "PD3" 15+16, 155.5' RT (DIKE ELEV. = 4858.00'). (LSS = 3:1, RSS = 4:1, TW = 4.0'). (SEE SHEET DP5)

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CONTRACTOR TO FIELD VERIFY ALL EXISTING STORM DRAIN FEATURES AND PROTECT IN PLACE.

Riprap Trapezoidal Ditch <i>(Note 3 This Sheet)</i> Station/Offset/IE		
"XS" 713+17, 58.2' LT IE = 4935.57'	to	"XS" 713+11, 63.9' LT IE = 4931.47'
"XS" 713+02, 73.0' LT IE = 4931.73'	to	"XS" 712+45, 84.7' LT IE = 4928.42'
"XS" 710+12, 87.5' LT IE = 4921.35'	to	"XS" 708+78, 86.8' LT IE = 4918.00'
"XS" 708+58, 89.5' LT IE = 4916.90'	to	"XS" 708+38, 92.0' LT IE = 4916.95'



EqnAhd "XS" 711+00.68
EqnBak "XS" 710+47.61

"PD1" 28+69.26 P.O.E. =
(12' RT) "XS" 711+67.02 P.O.T.

"PD2" 25+77.07 P.O.E. =
(12' RT) "XN" 709+68.33 P.O.C.

SEC. 26
SEC. 25

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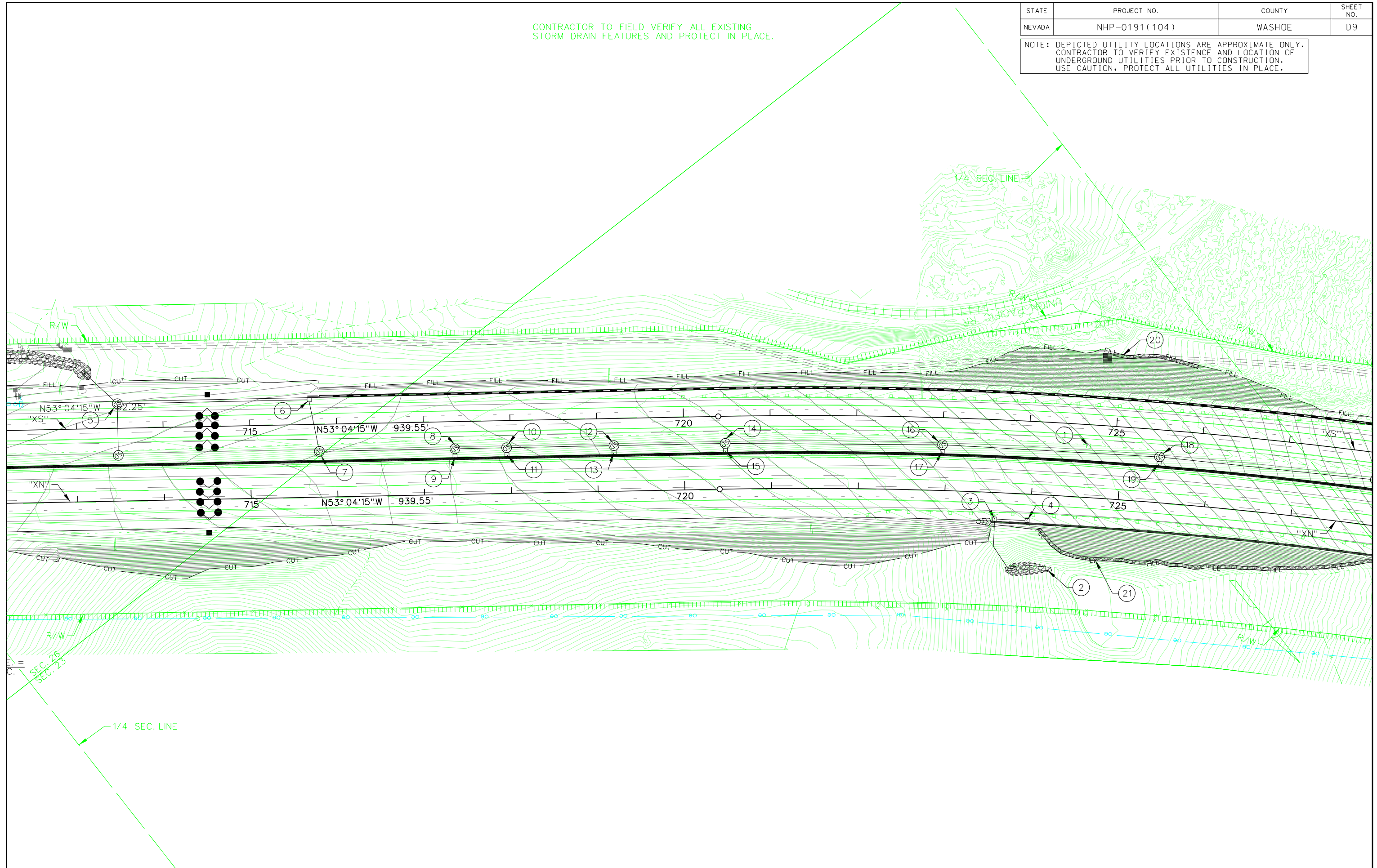
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- ① "XS" 708+35 OUTLET OF EXISTING 30" RCP, 91.4' LT. REMOVE EXISTING END SECTION. REMOVE 30" RCP TO "XS" 708+37, 79.6' LT. INSTALL PRECAST END SECTION AT OUTLET.
- ② "XS" 708+40 CONSTRUCT CLASS 550 RIPRAP TRAPEZOIDAL DITCH FROM "XS" 708+40, 61.5' LT (IE = 4927.01') TO "XS" 708+37, 79.6' LT (IE = 4917.80') TO "XS" 708+33, 98.3' LT (IE = 4916.50'). BLEND WITH EXISTING DITCH AT OUTLET PER ENGINEER. (RSS = 2:1, LSS = 2:1, W = 7.0', H = VARIES TO EXISTING)
- ③ "XS" 713+17 CONSTRUCT CLASS 400 RIPRAP TRAPEZOIDAL DITCH FROM "XS" 713+17, 58.2' LT TO "XS" 708+38, 92.0' LT. SEE PLAN SHEET FOR ADDITIONAL STATION/OFFSET/ELEVATION INFORMATION. BLEND WITH ADJACENT RIPRAP DITCH AT OUTLET PER ENGINEER. (RSS = 2:1, LSS = 2:1, W = 4.0', H = 2.5')
- ④ "XN" 709+34 INLET OF EXISTING 30" RCP, 119.2' RT. REMOVE END SECTION. REMOVE RCP TO "XN" 709+30, 92.6' RT. INSTALL PRECAST END SECTION. CONSTRUCT CLASS 300 RIPRAP TRAPEZOIDAL DITCH FROM "XN" 709+34, 119.2' RT (IE = 4929.00') TO "XN" 709+30, 92.6' RT (IE = 4927.41') TO "XN" 709+26, 70.1' RT (IE = 4935.00'). (RSS = 3:1, LSS = 3:1, W = 6.00', H = VARIES TO EXIST.)
- ⑤ "XS" 708+56 REMOVE DROP INLET, 29.5' RT AND 2' OF VERTICAL CMP. CONSTRUCT CMP RISER CAP. (SEE SHEET DD1)
- ⑥ "XN" 711+88 CONSTRUCT CLASS 300 RIPRAP TRAPEZOIDAL DITCH FROM "XN" 711+88, 54.7' RT (IE = 4941.17') TO "XN" 711+76, 58.6' RT (IE = 2340.69') TO "XN" 710+96, 91.6' RT (IE = 4935.13') TO "XN" 709+35, 104.9' RT (IE = 4928.18'). (RSS = 2:1, LSS = 2:1, W = 4.00', H = VARIES TO EXIST.)
- ⑦ "XN" 705+00 CONSTRUCT EARTHEN V-TYPE DITCH FROM "XN" 705+00, 66.0' RT (IE = 4932.25') TO "XN" 704+16, 63.0' RT (IE = 4931.00'). (LSS = 2:1, RSS = VARIES TO EDGE OF PAVEMENT, H = VARIES TO EXIST.)
- ⑧ "XS" 709+09 REMOVE DROP INLET, 34.6' LT, SLOTTED DRAIN, AND 10' OF VERTICAL CMP. CONSTRUCT CMP RISER CAP. TOP OF CAP MUST BE BELOW ELEVATION 4931.00'. (SEE SHEET DD1)
- ⑨ "XN" 709+21 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 36.3' LT. (GRATE ELEV. = 4938.60', H = 3.00', A = 3.00'). INSTALL 18" X 98' RCP (UIE = 4935.60', LIE = 4935.21') TO "XN" 709+26, 63.9' RT. INSTALL PRECAST END SECTION AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET (A = 7.0') AND BLEND WITH DOWNSTREAM CHANNEL PER ENGINEER. (SEE SHEET DP7)
- ⑩ "XS" 705+58 CONSTRUCT EARTHEN V-TYPE DITCH FROM "XS" 705+58, 68.8' LT (IE = 4925.00') TO "XS" 704+67, 65.4' LT (IE = 4924.75'). (RSS = 2:1, LSS = VARIES TO EDGE OF PAVEMENT, H = VARIES TO EXIST.)
- ⑪ "XS" 708+30 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4933.80', H = 3.30'). INSTALL 15" X 88' RCP (UIE = 4930.50', LIE = 4928.23') TO "XS" 708+30, 58.6' LT. INSTALL PRECAST END SECTION AT OUTLET. CONNECT RETAINING WALL DRAIN PIPE TO MANHOLE. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.
- ⑫ "XS" 713+48 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4938.23', H = 3.30'). INSTALL 15" X 56' RCP (UIE = 4934.93', LIE = 4933.57') AND CONNECT TO MANHOLE AT "XS" 713+48, 28.4' LT. CONNECT RETAINING WALL DRAIN PIPE TO MANHOLE. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.

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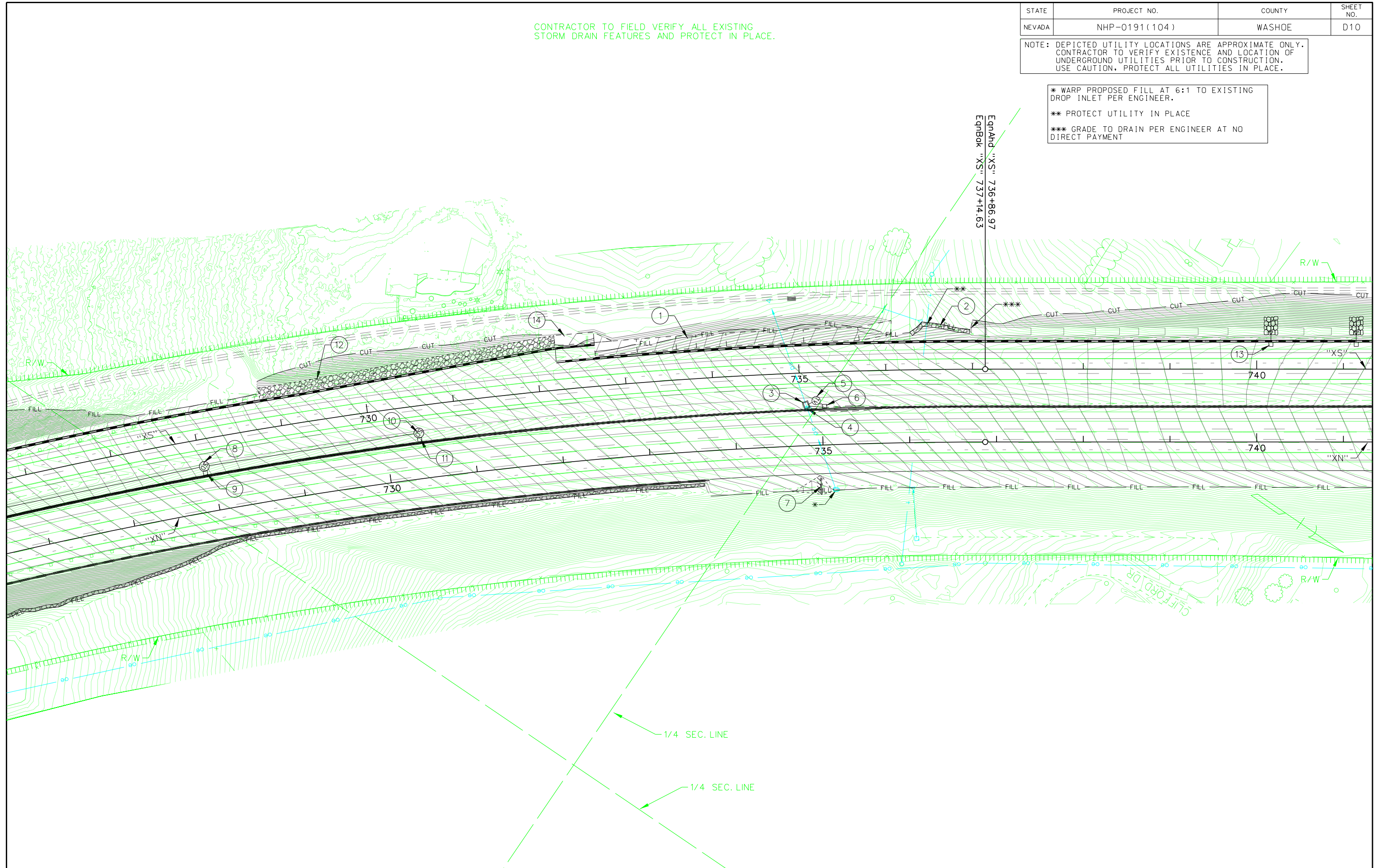
- ① "XS" 724+69 REMOVE DROP INLET, 24.6' RT AND 2' OF VERTICAL CMP. CONSTRUCT CMP RISER CAP. (SEE SHEET DD1)
- ② "XN" 723+74 CONSTRUCT CLASS 400 RIPRAP TRAPEZOIDAL DITCH FROM "XN" 723+74, 87.5' RT (IE = 4946.00') TO "XN" 723+82, 86.6' RT (IE = 4941.73') TO "XN" 724+02, 84.2' RT (IE = 4938.00') TO "XN" 724+28, 85.2' RT (IE = 4935.60'). (RSS = 2:1, LSS = 2:1, W = 4.0', H = VARIES TO EXISTING)
- ③ "XN" 723+59 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 30.0' RT. (GRATE ELEV. = 4960.39', H = 4.00', A = 3.00'). INSTALL 18" CMP DOWN DRAIN TO "XN" 723+59, 43.0' RT (IE = 4956.19') TO "XN" 723+59, 62.3' RT (IE = 4950.16') TO "XN" 723+77, 87.2' RT (IE = 4941.83') TO "XN" 723+82, 86.6' RT (IE = 4941.73'). (SEE SHEET DP6)
- ④ "XN" 723+96 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 30.0' RT. (GRATE ELEV. = 4961.03', H = 3.50', A = 3.00'). INSTALL 18" X 35' RCP (UIE = 4957.53', LIE = 4956.49') AND CONNECT TO DROP INLET AT "XN" 723+59, 30.0' RT. (SEE SHEET DP6)
- ⑤ "XS" 713+48 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 28.4' LT. (COVER ELEV. = 4936.86', H = 4.92'). INSTALL 24" X 50' RCP (UIE = 4931.94', LIE = 4931.47') TO "XS" 713+11, 63.9' LT. INSTALL PRECAST END SECTION AT OUTLET. WRAP RIPRAP OF DOWNSTREAM CHANNEL AROUND END SECTION PER ENGINEER AT NO DIRECT PAYMENT. (SEE SHEET DP8)
- ⑥ "XS" 715+69 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 28.0' LT. (GRATE ELEV. = 4938.59', H = 4.60', A = 3.50'). INSTALL 24" X 218' RCP (UIE = 4933.99', LIE = 4932.04') AND CONNECT TO MANHOLE AT "XS" 713+48, 28.4' LT. (SEE SHEET DP8)
- ⑦ "XS" 715+80 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4939.94', H = 5.35'). INSTALL 24" X 56' RCP (UIE = 4934.59', LIE = 4934.09') AND CONNECT TO DROP INLET AT "XS" 715+69, 28.0' LT. CONNECT RETAINING WALL DRAIN PIPE TO MANHOLE. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION. (SEE SHEET DP8)
- ⑧ "XS" 717+36 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4940.48', H = 4.41'). INSTALL 24" X 154' RCP (UIE = 4936.07', LIE = 4934.69') AND CONNECT TO MANHOLE AT "XS" 715+80, 31.3' RT. (SEE SHEET DP6, DP8)
- ⑨ "XS" 717+36 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4940.40', H = 4.00', A = 2.50'). INSTALL 18" X 5' RCP (UIE = 4936.40', LIE = 4936.17') AND CONNECT TO MANHOLE AT "XS" 717+36, 31.3' RT. (SEE SHEET DP6)
- ⑩ "XS" 717+96 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4940.83', H = 4.10'). INSTALL 24" X 57' RCP (UIE = 4936.73', LIE = 4936.17') AND CONNECT TO MANHOLE AT "XS" 717+36, 31.3' RT. (SEE SHEET DP6, DP8)
- ⑪ "XS" 717+96 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4940.68', H = 3.50', A = 2.50'). INSTALL 18" X 5' RCP (UIE = 4937.18', LIE = 4936.83') AND CONNECT TO MANHOLE AT "XS" 717+96, 31.3' RT. (SEE SHEET DP6)
- ⑫ "XS" 719+19 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4942.39', H = 4.10'). INSTALL 24" X 121' RCP (UIE = 4938.29', LIE = 4936.83') AND CONNECT TO MANHOLE AT "XS" 717+96, 31.3' RT. (SEE SHEET DP6, DP8)
- ⑬ "XS" 719+19 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4942.35', H = 3.50', A = 2.50'). INSTALL 18" X 5' RCP (UIE = 4938.85', LIE = 4938.39') AND CONNECT TO MANHOLE AT "XS" 719+19, 31.3' RT. (SEE SHEET DP6)
- ⑭ "XS" 720+48 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4943.53', H = 3.56'). INSTALL 18" X 125' RCP (UIE = 4939.97', LIE = 4938.39') AND CONNECT TO MANHOLE AT "XS" 719+19, 31.3' RT. (SEE SHEET DP6, DP8)
- ⑮ "XS" 720+48 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4943.31', H = 3.00', A = 2.50'). INSTALL 18" X 5' RCP (UIE = 4940.31', LIE = 4940.07') AND CONNECT TO MANHOLE AT "XS" 720+48, 31.3' RT. (SEE SHEET DP6)
- ⑯ "XS" 723+00 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4949.32', H = 4.50'). INSTALL 18" X 247' RCP (UIE = 4944.82', LIE = 4940.07') AND CONNECT TO MANHOLE AT "XS" 720+48, 31.3' RT. (SEE SHEET DP6, DP8)
- ⑰ "XS" 723+00 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4949.03', H = 3.50', A = 2.50'). INSTALL 18" X 5' RCP (UIE = 4945.53', LIE = 4944.92') AND CONNECT TO MANHOLE AT "XS" 723+00, 31.3' RT. (SEE SHEET DP6)
- ⑱ "XS" 725+52 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4958.02', H = 3.56'). INSTALL 18" X 248' RCP (UIE = 4954.46', LIE = 4944.92') AND CONNECT TO MANHOLE AT "XS" 723+00, 31.3' RT. (SEE SHEET DP6, DP8)
- ⑲ "XS" 725+52 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4957.65', H = 3.00', A = 2.50'). INSTALL 18" X 5' RCP (UIE = 4954.65', LIE = 4954.56') AND CONNECT TO MANHOLE AT "XS" 725+52, 31.3' RT. (SEE SHEET DP6)
- ⑳ "XS" 725+88 CONSTRUCT RIPRAP TOE-OF-FILL-SLOPE PROTECTION FROM "XS" 725+88, 77.9' LT TO "XS" 724+91, 85.1' LT. (SEE SHEET DD1)
- ㉑ "XS" 724+09 CONSTRUCT RIPRAP TOE-OF-FILL-SLOPE PROTECTION FROM "XS" 724+09, 40.9' RT TO "XS" 733+60, 40.8' RT. (SEE SHEET DD1)

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* WARP PROPOSED FILL AT 6:1 TO EXISTING DROP INLET PER ENGINEER.
** PROTECT UTILITY IN PLACE
*** GRADE TO DRAIN PER ENGINEER AT NO DIRECT PAYMENT



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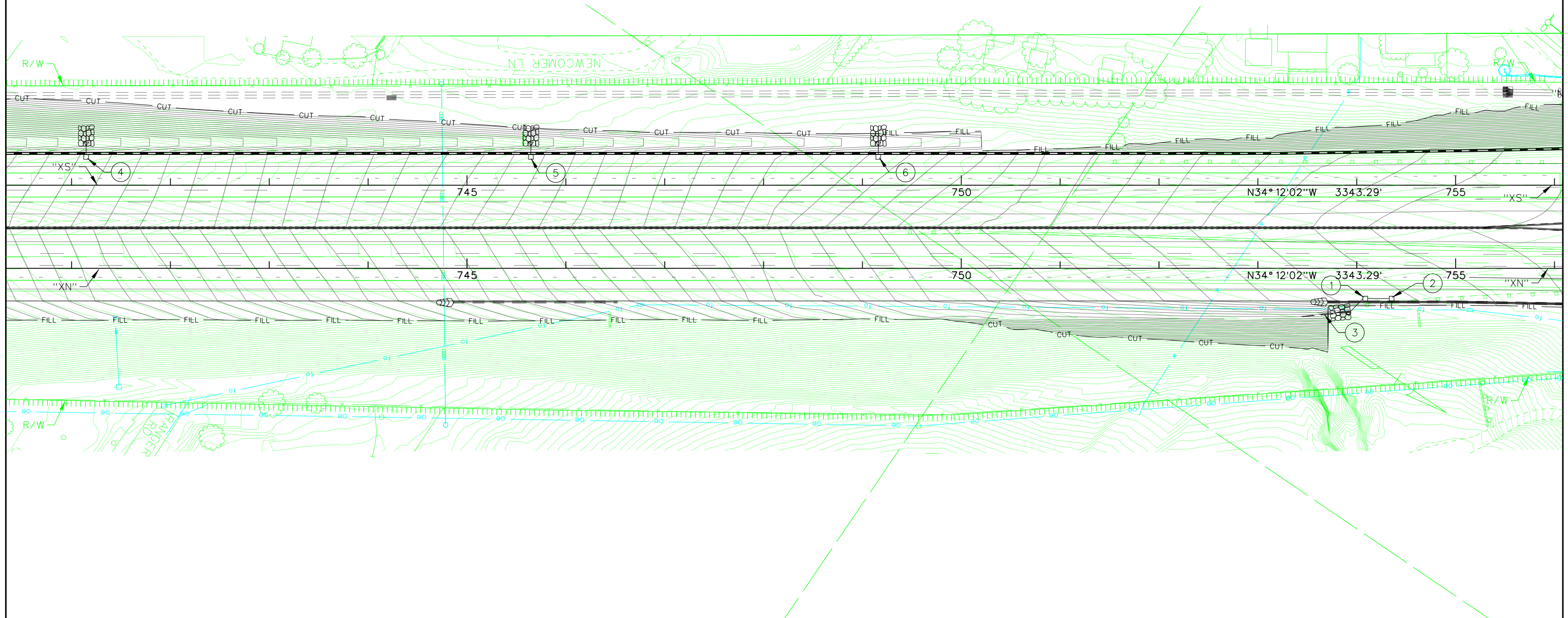
- ① "XS" 732+68 CONSTRUCT ACCESS ROAD FROM "XS" 732+68, 35.0' LT (ELEV. = 4996.03') TO "XS" 733+16, 35.0' LT (ELEV. = 4998.00') TO "XS" 733+61, 35.0' LT (ELEV. = 5000.25') TO "XS" 733+84, 35.0' LT (ELEV. = 5001.50') TO "XS" 734+18, 35.0' LT (ELEV. = 5003.50') TO "XS" 735+07, 35.0' LT (ELEV. = 5007.75') TO "XS" 735+70, 35.0' LT (ELEV. = 5010.25') TO "XS" 736+07, 41.3' LT (ELEV. = 5010.06'). BLEND WITH ADJACENT ACCESS ROAD PER ENGINEER. (W = 15.5') (SEE SHEET DD2)
- ② "XS" 736+97 CONSTRUCT RIPRAP TOE-OF-FILL-SLOPE PROTECTION FROM "XS" 736+97, 45.8' LT TO "XS" 736+28, 43.4' LT. (SEE SHEET DD1)
- ③ "XS" 735+07 CONSTRUCT TYPE 4 MANHOLE, 37.4' RT. (COVER ELEV. = 5004.40', H = 9.40'). CONNECT TO EXISTING RCP. INSTALL 30" X 4' RCP AND CONNECT TO EXISTING 30" RCP AT "XS" 735+09, 44.5' RT WITH CONCRETE COLLAR. VERIFY MANHOLE DEPTH PRIOR TO CONSTRUCTION. (SEE SHEET DD6, DP6)
- ④ "XS" 735+08 REMOVE EXISTING DROP INLET, 41.3' RT AND VERTICAL CMP FROM DROP INLET TO RCP. REMOVE 30" RCP FROM "XS" 735+06, 34.1' RT TO "XS" 735+09, 44.5' RT.
- ⑤ "XS" 735+18 INSTALL STORMWATER TREATMENT VAULT, 32.5' RT TO CENTER. (COVER ELEV. = 4905.04'). INSTALL 12" X 8' RCP (UIE = 5000.78', LIE = 5000.47'). CONNECT TO MANHOLE AT "XS" 735+07, 37.4' RT. (SEE SHEET DD6, DP6)
- ⑥ "XS" 735+28 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 39.0' RT. (GRATE ELEV. = 5005.11', H = 4.00', A = 4.00'). INSTALL 18" X 17' RCP (UIE = 5002.11', LIE = 5000.47') AND CONNECT TO MANHOLE AT "XS" 735+07, 37.4' RT. INSTALL 12" X 7' RCP (UIE = 5001.11', LIE = 5000.88') FROM DROP INLET TO TREATMENT VAULT AT "XS" 735+18, 32.5' RT. (SEE SHEET DD6, DP6)
- ⑦ "XN" 734+96 CONSTRUCT EARTHEN DIKE FROM "XN" 734+96, 35.7' RT (DIKE ELEV. = 5002.20') TO "XN" 734+96, 56.8' RT (DIKE ELEV. = 5002.20'). (TW = 2.0', SS = 10:1, H = VARIES)
- ⑧ "XS" 728+04 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4970.90', H = 3.56'). INSTALL 18" X 24' RCP (UIE = 4967.34', LIE = 4954.56') AND CONNECT TO MANHOLE AT "XS" 725+52, 31.3' RT. (SEE SHEET DP6, DP8)
- ⑨ "XS" 728+04 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4970.71', H = 3.00', A = 3.00'). INSTALL 18" X 5' RCP (UIE = 4967.71', LIE = 4967.44') AND CONNECT TO MANHOLE AT "XS" 728+04, 31.3' RT. (SEE SHEET DP6)
- ⑩ "XS" 730+56 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4982.70', H = 3.56'). INSTALL 18" X 24' RCP (UIE = 4979.14', LIE = 4967.44') AND CONNECT TO MANHOLE AT "XS" 728+04, 31.3' RT. (SEE SHEET DP8)
- ⑪ "XS" 730+56 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4982.28', H = 3.00', A = 4.00'). INSTALL 18" X 5' RCP (UIE = 4979.28', LIE = 4979.24') AND CONNECT TO MANHOLE AT "XS" 730+56, 31.3' RT. (SEE SHEET DP8)
- ⑫ "XS" 732+23 CONSTRUCT CLASS 150 RIPRAP BEDDING DITCH "A" FROM "XS" 732+23, 57.0' LT TO "XS" 728+80, 41.0' LT. LOCATION AND ELEVATION OF CHANNEL INVERT TO BE PER THE ROADWAY TEMPLATE. GRADE OUTLET TO BLEND WITH EXISTING GROUND PER ENGINEER AT NO DIRECT PAYMENT. (H = 0.50') (SEE SHEET DD2)
- ⑬ "XS" 740+16 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 28.0' LT. (GRATE ELEV. = 5025.41', H = 2.25', A = 3.00'). INSTALL 23" X 14" X 9' HERCP (UIE = 5023.16', LIE = 5023.09') TO "XS" 740+16, 39.5' LT. CONSTRUCT CLASS 150 RIPRAP APRON AT OUTLET. (SEE SHEET DP7)
- ⑭ "XS" 732+23 CONSTRUCT ACCESS ROAD FROM "XS" 732+23, 51.0' LT (ELEV. = 4994.58', W = 12.0') TO "XS" 732+68, 50.5' LT (ELEV. = 4995.72', W = 12.0') TO "XS" 732+88, 50.5' LT (ELEV. = 4996.56', W = 0.0'). BLEND WITH ADJACENT DITCH AND ACCESS ROAD PER ENGINEER. (SEE SHEET DD2)

CONTRACTOR TO FIELD VERIFY ALL EXISTING STORM DRAIN FEATURES AND PROTECT IN PLACE.

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NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION, PROTECT ALL UTILITIES IN PLACE.

- ① "XN" 754+09 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 30.0' RT. (GRATE ELEV. = 5061.34', H = 3.00', A = 2.50'). INSTALL 18" X 20' RCP (UIE = 5058.34', LIE = 5058.27') TO "XN" 753+94, 43.7' RT. INSTALL PRECAST END SECTION AT OUTLET. CONSTRUCT CLASS 150 RIPRAP APRON AT OUTLET. (SEE SHEET DP7)
- ② "XN" 754+35 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 30.0' RT. (GRATE ELEV. = 5061.69', H = 3.00', A = 2.50'). INSTALL 18" X 25' RCP (UIE = 5058.69', LIE = 5058.44') AND CONNECT TO DROP INLET AT "XN" 754+09, 30.0' RT. (SEE SHEET DP7)
- ③ "XN" 753+94 CONSTRUCT EARTHEN TRAPEZOIDAL DITCH FROM "XN" 753+94, 43.7' RT (IE = 5058.27', W = 2.0') TO "XN" 753+43, 49.0' RT (IE = 5058.10', W = 0.0'). (RSS = 2:1, LSS = 2:1, H = VARIES)
- ④ "XS" 741+15 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 28.0' LT. (GRATE ELEV. = 5028.23', H = 2.25', A = 3.00'). INSTALL 23" X 14" X 9' HERCP (UIE = 5025.98', LIE = 5025.91') TO "XS" 741+15, 39.5' LT. CONSTRUCT CLASS 150 RIPRAP APRON AT OUTLET. (SEE SHEET DP7)
- ⑤ "XS" 745+65 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 28.0' LT. (GRATE ELEV. = 5041.58', H = 2.25', A = 3.00'). INSTALL 23" X 14" X 9' HERCP (UIE = 5039.33', LIE = 5039.25') TO "XS" 745+65, 39.5' LT. CONSTRUCT CLASS 150 RIPRAP APRON AT OUTLET. (SEE SHEET DP7)
- ⑥ "XS" 749+16 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 28.0' LT. (GRATE ELEV. = 5051.31', H = 2.25', A = 4.00'). INSTALL 23" X 14" X 9' HERCP (UIE = 5049.06', LIE = 5048.94') TO "XS" 749+16, 39.5' LT. CONSTRUCT CLASS 150 RIPRAP APRON AT OUTLET. (SEE SHEET DP7)



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- ① "XS" 756+32 CONSTRUCT ROADSIDE BITUMINOUS DITCH FROM "XS" 756+32, 94.2' LT (IE = 5034.64') TO "XS" 756+65, 54.3' LT (IE = 5034.81') TO "XS" 756+80, 36.5' LT (IE = 5034.88') TO "XN" 757+25, 29.3' RT (IE = 5036.29') TO "XN" 757+26, 32.7' RT (IE = 5036.40') TO "XN" 757+30, 58.3' RT (IE = 5037.25'). BLEND WITH EXISTING DITCH AT INLET AND OUTLET PER ENGINEER AT NO DIRECT PAYMENT. (RSS = 4:1; H = 1.0') (SEE SHEET DD2)
- ② "XN" 758+84 EXISTING 30" RCP FROM "XN" 758+84, 80.9' RT TO "XS" 758+17, 63.2' LT. REMOVE RCP AND END SECTION AT INLET AND OUTLET.
- ③ "XS" 758+17 INLET OF EXISTING (3)-24" RCP, 93.8' LT. REMOVE EXISTING END SECTIONS. EXTEND RCP'S 10' AND CONNECT TO CONCRETE CHANNEL AT "XS" 758+26, 88.2' LT (IE = 5031.77'), "XS" 758+22, 86.0' LT (IE = 5031.65'), AND "XS" 758+19, 83.7' LT (IE = 5031.53'). INLETS OF RCP'S TO BE FLUSH WITH INSIDE OF CHANNEL WALL. (SEE SHEET DD5A, DP11)
- ④ "XS" 758+72 CONSTRUCT CONCRETE CHANNEL "C" FROM "XS" 758+72, 94.9' LT TO "XS" 758+20, 81.0' LT. GRADE EXISTING DITCH AT INLET TO BLEND WITH INLET OF CONCRETE CHANNEL. CONNECT TO CONCRETE CHANNEL AT OUTLET. SEE PLAN SHEET FOR ADDITIONAL STATION/OFFSET/ELEVATION/GEOMETRY INFORMATION. (SEE SHEET D12B, DD5, DD5A, DP11)
- ⑤ "XN" 758+79 CONSTRUCT CONCRETE CHANNEL "D" FROM "XN" 758+79, 71.6' RT TO "XS" 758+20, 81.0' LT. CONNECT TO CONCRETE CHANNEL AT INLET AND OUTLET. SEE PLAN SHEET FOR ADDITIONAL STATION/OFFSET/ELEVATION/GEOMETRY INFORMATION. (SEE SHEET D12B, DD5, DD5A, DP11)
- ⑥ "XN" 759+21 CONSTRUCT CONCRETE CHANNEL "E" FROM "XN" 759+21, 93.0' RT TO "XN" 758+79, 71.6' RT. CONNECT TO CONCRETE CHANNEL AT INLET AND OUTLET. SEE PLAN SHEET FOR ADDITIONAL STATION/OFFSET/ELEVATION/GEOMETRY INFORMATION. (SEE SHEET D12B, DD5, DD5A, DP11)
- ⑦ "XN" 758+79 CONSTRUCT 12" THICK CLASS 150 RIPRAP PAD OVER 8" THICK CLASS 150 RIPRAP BEDDING, 85.0' RT WITHIN LIMITS AND TO ELEVATIONS SHOWN ON PLAN SHEET. GRADE FROM EDGE OF RIPRAP TO EDGE OF PAVEMENT AT NO DIRECT PAYMENT FOR PROPOSED BARRIER RAIL. GRADE AT 10:1 DOWN TO THE RT BETWEEN "XN" 758+75, 100.6' RT AND "XN" 758+87, 97.5' RT AT NO DIRECT PAYMENT.
- ⑧ "XN" 759+21 CONSTRUCT CONCRETE CHANNEL "B" FROM "XN" 759+21, 93.0' RT TO "XN" 770+83, 92.6' RT. CONNECT TO CONCRETE CHANNEL AT INLET. SEE PLAN SHEET FOR ADDITIONAL STATION/OFFSET/ELEVATION/GEOMETRY INFORMATION. (SEE SHEET D12B, DD5, DD5A, DP10)
- ⑨ "XN" 759+33 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.1' RT. (GRATE ELEV. = 5065.67', H = 5.02', A = 3.00'). INSTALL 24" CMP DOWN DRAIN TO "XN" 759+32, 89.1' RT (IE = 5037.33'). CONNECT TO CONCRETE CHANNEL. CMP TO BE FLUSH WITH INSIDE WALL OF CHANNEL. (SEE SHEET DD6, DP9)
- ⑩ "XN" 759+58 INSTALL STORMWATER TREATMENT VAULT, 29.8' RT TO CENTER. (COVER ELEV. = 5066.12'). INSTALL 12" X 21" RCP (UIE = 5060.85', LIE = 5060.65'). CONNECT TO DROP INLET AT "XN" 759+33, 33.1' RT. (SEE SHEET DD6, DP9)
- ⑪ "XN" 759+80 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.9' RT. (GRATE ELEV. = 5066.38', H = 5.25', A = 2.50'). INSTALL 18" X 45' RCP (UIE = 5062.88', LIE = 5060.65') AND CONNECT TO DROP INLET AT "XN" 759+33, 33.1' RT. INSTALL 12" X 19" RCP (UIE = 5061.13', LIE = 5060.95') FROM DROP INLET TO TREATMENT VAULT AT "XN" 759+58, 29.8' RT. (SEE SHEET DD6, DP9)
- ⑫ "XN" 760+87 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 35.9' RT. (GRATE ELEV. = 5067.47', H = 3.50', A = 2.50'). INSTALL 18" X 104' RCP (UIE = 5063.97', LIE = 5062.98') AND CONNECT TO DROP INLET AT "XN" 759+80, 33.9' RT. (SEE SHEET DP9)
- ⑬ "XN" 761+82 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 37.6' RT. (GRATE ELEV. = 5068.55', H = 3.50', A = 2.50'). INSTALL 18" X 93' RCP (UIE = 5065.05', LIE = 5064.07') AND CONNECT TO DROP INLET AT "XN" 760+87, 35.9' RT. (SEE SHEET DP9)
- ⑭ "XN" 762+76 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 39.3' RT. (GRATE ELEV. = 5070.05', H = 3.50', A = 2.50'). INSTALL 18" X 93' RCP (UIE = 5066.55', LIE = 5065.15') AND CONNECT TO DROP INLET AT "XN" 761+82, 37.6' RT. (SEE SHEET DP9)
- ⑮ "XN" 764+88 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 17.0' RT. (GRATE ELEV. = 5074.74', H = 3.00', A = 2.50'). INSTALL 15" X 20' RCP (UIE = 5071.74', LIE = 5070.73') AND CONNECT TO DROP INLET AT "XN" 764+88, 43.0' RT. (SEE SHEET DP9)
- ⑯ "XN" 764+88 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 43.0' RT. (GRATE ELEV. = 5074.13', H = 3.50', A = 2.50'). INSTALL 18" X 210' RCP (UIE = 5070.63', LIE = 5066.65') AND CONNECT TO DROP INLET AT "XN" 762+76, 39.3' RT. (SEE SHEET DP9)
- ⑰ "XN" 766+02 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 17.0' RT. (GRATE ELEV. = 5078.02', H = 3.00', A = 2.50'). INSTALL 15" X 20' RCP (UIE = 5075.02', LIE = 5074.34') AND CONNECT TO DROP INLET AT "XN" 766+02, 43.0' RT. (SEE SHEET DP9)
- ⑱ "V1" 14+34 CONSTRUCT TYPE 7 DROP INLET, 13.7' LT. (GRATE ELEV. = 5090.05', H = 5.38'). INSTALL 18" X 67' RCP (UIE = 5085.05', LIE = 5078.17') TO "V1" 14+36, 81.4' LT. INSTALL PRECAST END SECTION AT OUTLET. WRAP RIPRAP OF DOWNSTREAM BASIN AROUND END SECTION. CONSTRUCT BITUMINOUS APRON AROUND DROP INLET. (SEE SHEET DD3, DP10)
- ⑲ "XS" 758+91 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.0' LT. (GRATE ELEV. = 5065.70', H = 5.00', A = 2.50'). INSTALL 18" CMP DOWN DRAIN TO "XS" 758+91, 90.4' LT. CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET AND BLEND WITH DOWNSTREAM CHANNEL PER ENGINEER. (SEE SHEET DP7)
- ⑳ "XS" 760+66 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 31.8' LT. (GRATE ELEV. = 5066.48', H = 4.00', A = 2.50'). INSTALL 18" X 173' RCP (UIE = 5062.48', LIE = 5060.80') AND CONNECT TO DROP INLET AT "XS" 758+91, 33.0' LT. (SEE SHEET DP7)
- ㉑ "XS" 762+53 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.1' LT. (GRATE ELEV. = 5067.41', H = 3.00', A = 2.50'). INSTALL 18" X 185' RCP (UIE = 5064.41', LIE = 5062.58') AND CONNECT TO DROP INLET AT "XS" 760+66, 31.8' LT. (SEE SHEET DP7)
- ㉒ "XN" 766+02 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 43.0' RT. (GRATE ELEV. = 5077.74', H = 3.50', A = 2.50'). INSTALL 18" X 112' RCP (UIE = 5074.24', LIE = 5070.73') AND CONNECT TO DROP INLET AT "XN" 764+88, 43.0' RT. (SEE SHEET DP9)
- ㉓ "XN" 767+83 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 43.0' RT. (GRATE ELEV. = 5082.92', H = 3.50', A = 2.50'). INSTALL 18" X 179' RCP (UIE = 5079.42', LIE = 5074.34') AND CONNECT TO DROP INLET AT "XN" 766+02, 43.0' RT. (SEE SHEET DP9)
- ㉔ "XN" 769+48 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.7' LT. (GRATE ELEV. = 5088.67', H = 5.75', A = 2.50'). INSTALL 18" X 53' RCP (UIE = 5082.92', LIE = 5082.66') AND CONNECT TO MANHOLE AT "XN" 769+45, 23.7' RT. (SEE SHEET DP9)
- ㉕ "XN" 769+73 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.0' LT. (GRATE ELEV. = 5089.12', H = 5.74', A = 2.50'). INSTALL 18" X 23' RCP (UIE = 5083.38', LIE = 5083.02') AND CONNECT TO DROP INLET AT "XN" 769+48, 33.7' LT. (SEE SHEET DP9)
- ㉖ "XN" 769+45 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 23.7' RT. (COVER ELEV. = 5089.08', H = 6.52'). INSTALL 18" X 161' RCP (UIE = 5082.56', LIE = 5079.52') AND CONNECT TO DROP INLET AT "XN" 767+83, 43.0' RT. (SEE SHEET DP9, DP10)

Concrete Channel "D" (Note 5, Sheet D12) Station/Offset/IE/Geometry Length = 247'	
"XN" 758+79, 71.6' RT IE = 5032.54'	to "XN" 758+74, 53.7' RT IE = 5032.45'
"XN" 758+50, 31.0' LT IE = 5032.10'	to "XS" 758+35, 0.3' LT IE = 5031.88'
"XS" 758+26, 31.9' LT IE = 5031.75'	to "XS" 758+23, 41.9' LT IE = 5031.70'
"XS" 758+20, 53.7' LT IE = 5031.65'	to "XS" 758+19, 69.6' LT IE = 5031.57'
"XS" 758+20, 81.0' LT IE = 5031.50'	

Concrete Channel "E" (Note 6, Sheet D12) Station/Offset/IE/Geometry Length = 51'	
"XN" 759+21, 93.0' RT IE = 5034.21' W = 8.00'; B = 12.00'	to "XN" 759+11, 93.0' RT IE = 5033.87' W = 6.00'; B = 10.00'
"XN" 759+04, 93.0' RT IE = 5033.63' W = 6.00'; B = 10.00'	to "XN" 758+97, 90.2' RT IE = 5033.38' W = 6.00'; B = 10.00'
"XN" 758+89, 84.4' RT IE = 5032.91' W = 6.00'; B = 10.00'	to "XN" 758+89, 84.4' RT IE = 5032.91' W = 6.00'; B = 10.00'
"XN" 758+87, 82.9' RT IE = 5032.80' W = 6.00'; B = 10.00'	to "XN" 758+87, 82.9' RT IE = 5032.80' W = 6.00'; B = 10.00'
"XN" 758+85, 81.3' RT IE = 5032.68' W = 6.00'; B = 10.00'	to "XN" 758+80, 75.0' RT IE = 5032.60' W = 6.00'; B = 10.00'
"XN" 758+79, 71.6' RT IE = 5032.54' W = 6.00'; B = 10.00'	

Concrete Channel "B" (Note 8, Sheet D12) Station/Offset/IE/Geometry Length = 1164'	
"XN" 759+21, 93.0' RT IE = 5034.21'	to "XN" 760+32, 93.4' RT IE = 5035.46'
"XN" 762+22, 92.9' RT IE = 5039.36'	to "XN" 763+35, 92.9' RT IE = 5041.64'
"XN" 763+38, 92.9' RT IE = 5041.70'	to "XN" 764+74, 92.8' RT IE = 5044.46'
"XN" 764+78, 92.7' RT IE = 5044.54'	to "XN" 766+31, 92.2' RT IE = 5047.76'
"XN" 766+35, 92.2' RT IE = 5047.80'	to "XN" 766+85, 92.7' RT IE = 5048.31'
"XN" 767+51, 92.7' RT IE = 5051.30'	to "XN" 767+84, 92.6' RT IE = 5053.86'
"XN" 768+28, 92.6' RT IE = 5054.96'	to "XN" 768+59, 92.6' RT IE = 5056.60'
"XN" 769+20, 92.8' RT IE = 5058.96'	to "XN" 769+51, 92.8' RT IE = 5059.71'
"XN" 770+18, 93.0' RT IE = 5062.96'	to "XN" 770+78, 92.6' RT IE = 5065.27'
"XN" 770+83, 92.6' RT IE = 5065.46'	

Concrete Channel "C" (Note 4, Sheet D12) Station/Offset/IE/Geometry Length = 57'	
"XS" 758+72, 94.9' LT IE = 5033.63'	to "XS" 758+68, 94.4' LT IE = 5033.57'
"XS" 758+37, 90.8' LT IE = 5033.12'	to "XS" 758+29, 86.7' LT IE = 5031.82'
"XS" 758+20, 81.0' LT IE = 5031.50'	

- 27 "XN" 769+62 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 23.5' RT. (GRATE ELEV. = 5089.62', H = 3.50', A = 4.00'). INSTALL 18" X 13' RCP (UIE = 5086.12', LIE = 5085.08') AND CONNECT TO MANHOLE AT "XN" 769+45, 23.7' RT. (SEE SHEET DP10)
- 28 "XS" 768+67 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 18.6' LT. (GRATE ELEV. = 5084.29', H = 5.00', A = 2.50'). INSTALL 18" X 87' RCP (UIE = 5079.29', LIE = 5066.97') AND CONNECT TO MANHOLE AT "XS" 768+21, 93.8' LT. (SEE SHEET DP12)
- 29 "XS" 768+21 REMOVE EXISTING DROP INLET, 93.8' LT AND VERTICAL CMP FROM DROP INLET TO RCP. REMOVE 3' SECTION OF RCP WITHIN MANHOLE. CONSTRUCT TYPE 2 MODIFIED MANHOLE, 93.8' LT (COVER ELEV. = 5069.73', H = 12.22'). CONNECT TO EXISTING RCP. VERIFY HEIGHT PRIOR TO CONSTRUCTION. (SEE SHEET DP12)
- 30 "XS" 768+16 INSTALL 24" X 18' RCP FROM "XS" 768+16, 112.4' LT (UIE = 5065.63', LIE = 5065.12') AND CONNECT TO MANHOLE AT "XS" 768+21, 93.8' LT. INSTALL PRECAST END SECTION AT INLET. VERIFY UIE AND LIE WITH ENGINEER PRIOR TO CONSTRUCTION. (SEE SHEET DP12)
- 31 "XN" 758+79 CONSTRUCT BITUMINOUS PATCH FROM "XN" 758+79, 99.5' RT TO "XS" 758+15, 82.7' LT. (SEE SHEET DD2)
- 32 "XN" 769+89 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 23.5' RT. (GRATE ELEV. = 5090.50', H = 3.00', A = 4.00'). INSTALL 15" X 23' RCP (UIE = 5087.50', LIE = 5086.22') AND CONNECT TO DROP INLET AT "XN" 769+62, 23.5' RT. (SEE SHEET DP10)
- 33 "XS" 758+52 CONSTRUCT CONCRETE DIKE FROM "XS" 758+52, 103.7' LT (DIKE ELEV. = 5035.60') TO "XS" 758+22, 100.5' LT (DIKE ELEV. = 5035.60'). (SEE SHEET DD2)

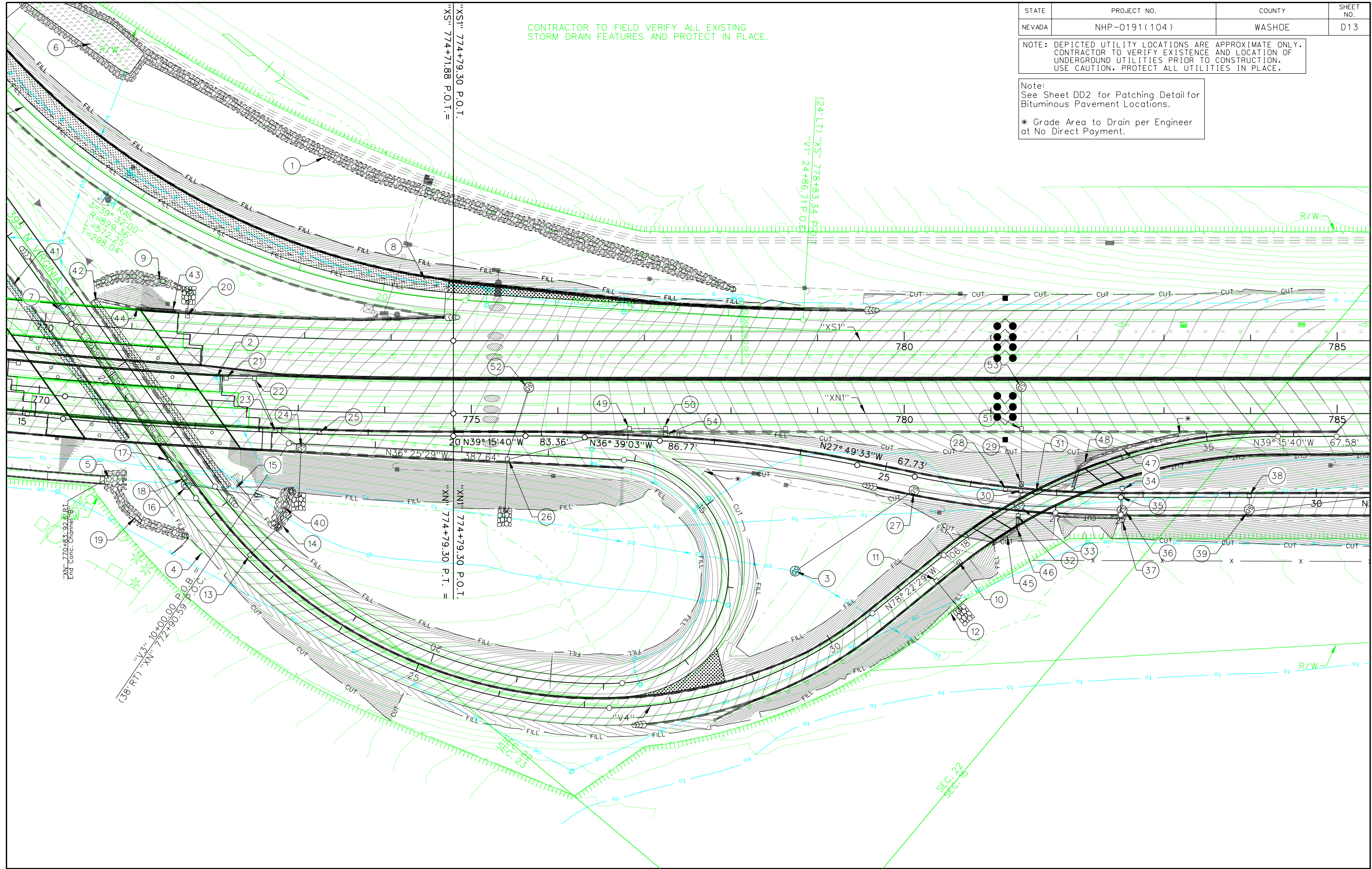
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NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION, PROTECT ALL UTILITIES IN PLACE.

Note:
See Sheet DD2 for Patching Detail for Bituminous Pavement Locations.

* Grade Area to Drain per Engineer at No Direct Payment.

CONTRACTOR TO FIELD VERIFY ALL EXISTING STORM DRAIN FEATURES AND PROTECT IN PLACE.



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- ① "XS" 770+89 CONSTRUCT CLASS 550 RIPRAP TRAPEZOIDAL DITCH FROM "XS" 770+89, 316.7' LT (IE = 5077.81') TO "XS" 771+91, 272.8' LT (IE = 5081.00') TO "XS" 772+72, 232.5' LT (IE = 5083.50') TO "XS" 773+78, 189.7' LT (IE = 5088.50') TO "XS1" 776+31, 114.3' LT (IE = 5105.00') TO "XS1" 777+36, 83.6' LT (IE = 5117.00') TO "XS1" 778+05, 58.5' LT (IE = 5127.00'). (LSS = 2:1, RSS = 2:1, W = 4.0', H = VARIES TO EXISTING GROUND)
- ② "XN" 772+05 REMOVE EXISTING DROP INLET, 34.4' LT. ABANDON AND SLURRY FILL 24" RCP TO "XN" 772+68, 77.7' RT. REMOVE END SECTION AT OUTLET.
- ③ "V3" 15+82 REMOVE EXISTING DROP INLET, 77.0' LT AND REMOVE VERTICAL CMP TO TOP OF RCP. REMOVE 4' OF RCP WITHIN INSIDE OF MANHOLE. CONSTRUCT TYPE 3 MODIFIED MANHOLE, 77.0' LT (COVER ELEV. = 5106.02', H = 10.89'). CONNECT TO EXISTING RCP. VERIFY HEIGHT PRIOR TO CONSTRUCTION. MANHOLE COVER TO BE BEEHIVE GRATE PER ENGINEER. (SEE SHEET DP13)
- ④ "V4" 22+13 EXISTING 18" X 20' CMP, 34.0' RT. REMOVE END SECTION AT OUTLET. REMOVE CMP. REGRADE AND CONFORM TO DITCH AT "V4" 22+02.
- ⑤ "XN" 771+08 REMOVE END SECTION AT OUTLET OF 30" RCP, 90.7' RT. INSTALL END SECTION AT OUTLET OF RCP, 90.7' RT. CONSTRUCT CLASS 400 RIPRAP DITCH FROM "XN" 771+08, 90.7' RT (IE = 5066.35') TO "XN" 770+83, 92.6' RT (IE = 5065.46'). (LSS = 2:1, RSS = 2:1, W = 10.0', H = 3.0', TW = 0.0', BSS = 2:1 IF IN CUT AND 2% IF IN FILL) WRAP RIPRAP AROUND RCP END SECTION AT INLET AND CONCRETE DITCH AT OUTLET PER ENGINEER.
- ⑥ "XS" 770+26 CONSTRUCT WATER QUALITY BASIN, 338.2' LT. (SEE SHEET DD3)
- ⑦ "V4" 19+06 REMOVE EXISTING DROP INLET, 0.9' LT. ABANDON AND SLURRY FILL 18" RCP TO DROP INLET AT "V3" 26+56, 20.8' RT.
- ⑧ "V1" 20+75 CONSTRUCT MODIFIED BITUMINOUS DITCH "B" FROM "V1" 20+75, 13.6' LT TO "V1" 14+47, 14.1' LT. (SEE SHEET DD3)
- ⑨ "XS" 771+67 CONSTRUCT CLASS 400 RIPRAP DITCH FROM "XS" 771+67, 46.5' LT (IE = 5095.00') TO "XS" 771+32, 57.3' LT (IE = 5089.50') TO "XS" 770+99, 60.4' LT (IE = 5081.50') TO "XS" 770+78, 58.8' LT (IE = 5076.50') TO "XS" 770+54, 48.1' LT (IE = 5070.06'). (LSS = 2:1, RSS = 2:1, W = 4.0', H = VARIES TO EXIST.)
- ⑩ "V4" 31+73 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 17.0' RT. (GRATE ELEV. = 5135.18', H = 3.00', A = 2.50'). INSTALL 18" X 32' RCP (UIE = 5132.18', LIE = 5129.50') AND CONNECT TO DROP INLET AT "V4" 31+39, 17.0' RT. (SEE SHEET DP12)
- ⑪ "V4" 31+39 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 17.0' RT. (GRATE ELEV. = 5133.40', H = 4.00', A = 2.50'). INSTALL 18" CMP DOWN DRAIN TO "V4" 31+39, 57.6' RT (IE = 5112.97'). CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET. (SEE SHEET DP12)
- ⑫ "V4" 31+54 REMOVE EXISTING FENCE FROM "V4" 31+54, 55.7' RT TO "V4" 31+25, 55.9' RT. CONSTRUCT TYPE C-NV-4B FENCE FROM "V4" 31+54, 55.7' RT TO "V4" 31+25, 55.9' RT. CONNECT TO EXISTING FENCE AT EACH END.
- ⑬ "V4" 22+64 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 4.6' LT. (GRATE ELEV. = 5079.55', H = 4.00', A = 3.50'). INSTALL 18" X 43' RCP (UIE = 5075.55', LIE = 5073.84') TO "V4" 22+64, 50.0' LT. INSTALL PRECAST END SECTION AT OUTLET. (SEE SHEET DP12)
- ⑭ "V4" 22+64 CONSTRUCT CLASS 300 RIPRAP TRAPEZOIDAL DITCH FROM "V4" 22+64, 46.0' LT (IE = 5075.85') TO "V4" 22+64, 50.0' LT (IE = 5073.84') TO "V4" 22+64, 57.8' LT (IE = 5072.80') TO "V4" 22+63, 71.8' LT (IE = 5072.00'). (RSS = 2:1, LSS = 2:1, W = 3.0', H = VARIES TO EXIST.)
- ⑮ "V4" 21+90 INLET OF EXISTING 30" RCP, 41.7' LT. REMOVE END SECTION. REMOVE RCP TO "V4" 21+52, 1.5' RT.
- ⑯ "V4" 21+53 CONSTRUCT TYPE 2 MODIFIED MANHOLE, 0.0' LT (COVER ELEV. = 5075.11', H = 6.34'). INSTALL 30" X 78' RCP FROM "V4" 22+12, 55.4' LT (UIE = 5070.50', LIE = 5068.87'). INSTALL PRECAST END SECTION AT INLET. CONNECT MANHOLE TO EXISTING RCP. CENTER OF MANHOLE LID TO BE AT "V4" 21+53, 1.2' LT. VERIFY HEIGHT PRIOR TO CONSTRUCTION. CONSTRUCT EARTHEN TRAPEZOIDAL DITCH AT INLET FROM "V4" 22+12, 55.4' LT (IE = 5070.50', W = 3.0') TO "V4" 22+36, 73.2' LT (IE = 5072.02', W = 0.0'). (RSS = 3:1, LSS = 3:1, H = VARIES TO EXIST.) (SEE SHEET DP11)
- ⑰ "V4" 21+18 CONSTRUCT TYPE 2 DROP INLET, 1.7' LT. (GRATE ELEV. = 5074.03', H = 3.00', A = 3.00'). CONSTRUCT 8" X 18' TRENCH DRAIN BRACK ON LINE (H1 = 6", H2 = 24"). INSTALL 15" X 26' RCP (UIE = 5071.03', LIE = 5070.53') AND CONNECT TO DROP INLET AT "V4" 21+46, 2.7' LT. (SEE SHEET DP11)
- ⑱ "V4" 21+46 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 2.7' LT. (GRATE ELEV. = 5074.73', H = 4.30', A = 2.50'). INSTALL 18" X 4' RCP (UIE = 5070.43', LIE = 5070.36') AND CONNECT TO MANHOLE AT "V4" 21+53, 0.0' LT. (SEE SHEET DP11)
- ⑲ "V4" 22+02 CONSTRUCT CLASS 400 RIPRAP DITCH FROM "V4" 22+02, 33.6' RT (IE = 5076.78') TO "V4" 21+97, 38.1' RT (IE = 5074.03') TO "V4" 21+58, 67.4' RT (IE = 5070.00') TO "V4" 21+31, 72.4' RT (IE = 5068.00') TO "V4" 21+04, 68.2' RT (IE = 5065.82'). (LSS = 2:1, RSS = 2:1, W = 4.0', H = VARIES TO EXIST.) BLEND WITH ROADSIDE DITCH AT INLET AND PROPOSED DITCH AT OUTLET.
- ⑳ "XS" 771+63 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 18.5' LT. (GRATE ELEV. = 5097.72', H = 3.00', A = 2.50'). INSTALL 18" X 11' RCP (UIE = 5094.72', LIE = 5094.61') TO "XS" 771+63, 32.4' LT. INSTALL PRECAST END SECTION AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET (A = 13'). (SEE SHEET DP11)
- ㉑ "XN" 772+15 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.3' LT. (GRATE ELEV. = 5096.33', H = 2.50', A = 3.00'). INSTALL 15" X 30' RCP (UIE = 5093.83', LIE = 5093.68') AND CONNECT TO DROP INLET AT "XN" 772+48, 34.5' LT. (SEE SHEET DP12)
- ㉒ "XN" 772+48 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 34.5' LT. (GRATE ELEV. = 5097.29', H = 3.71', A = 3.00'). INSTALL 18" X 61' RCP (UIE = 5093.58', LIE = 5093.29') AND CONNECT TO DROP INLET AT "XN" 772+74, 23.5' RT. (SEE SHEET DP12)
- ㉓ "XN" 772+74 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 23.5' RT. (GRATE ELEV. = 5099.65', H = 6.46', A = 4.00'). INSTALL 18" X 33' RCP (UIE = 5093.19', LIE = 5093.03') AND CONNECT TO MANHOLE AT "XN" 773+05, 42.5' RT. (SEE SHEET DP12)
- ㉔ "XN" 773+05 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 42.5' RT. (COVER ELEV. = 5101.15', H = 8.22'). INSTALL 18" CMP DOWN DRAIN TO "XN" 773+04, 94.3' RT (IE = 5072.01'). CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET. (SEE SHEET DP12)
- ㉕ "XN" 773+25 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 23.5' RT. (GRATE ELEV. = 5101.40', H = 3.50', A = 4.00'). INSTALL 18" X 26' RCP (UIE = 5097.90', LIE = 5097.66') AND CONNECT TO MANHOLE AT "XN" 773+05, 42.5' RT. (SEE SHEET DP12)
- ㉖ "XN1" 775+42 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 52.1' RT. (GRATE ELEV. = 5108.41', H = 4.00', A = 3.00'). INSTALL 18" CMP DOWN DRAIN TO "XN1" 775+39, 109.4' RT (IE = 5076.41'). CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET. (SEE SHEET DP15)
- ㉗ "GV3" 25+37 CONSTRUCT TYPE 2 MODIFIED MANHOLE, 15.7' RT. (COVER ELEV. = 5116.57', H = 6.88'). INSTALL 30" X 162' RCP (UIE = 5109.69', LIE = 5101.42') AND CONNECT TO MANHOLE AT "V3" 15+82, 77.0' LT. (SEE SHEET DP13)
- ㉘ "GV3" 26+41 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5115.35', H = 3.00', A = 4.00'). INSTALL 15" X 14' RCP (UIE = 5112.35', LIE = 5111.95') AND CONNECT TO DROP INLET AT "GV3" 26+58, 2.5' LT. (SEE SHEET DP14)
- ㉙ "GV3" 26+58 CONSTRUCT TYPE 2A DROP INLET, 10.1' LT. (GRATE ELEV. = 5115.04', H = 3.00', A = 4.00'). INSTALL 18" X 6' RCP (UIE = 5112.04', LIE = 5111.72') AND CONNECT TO DROP INLET AT "GV3" 26+58, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)

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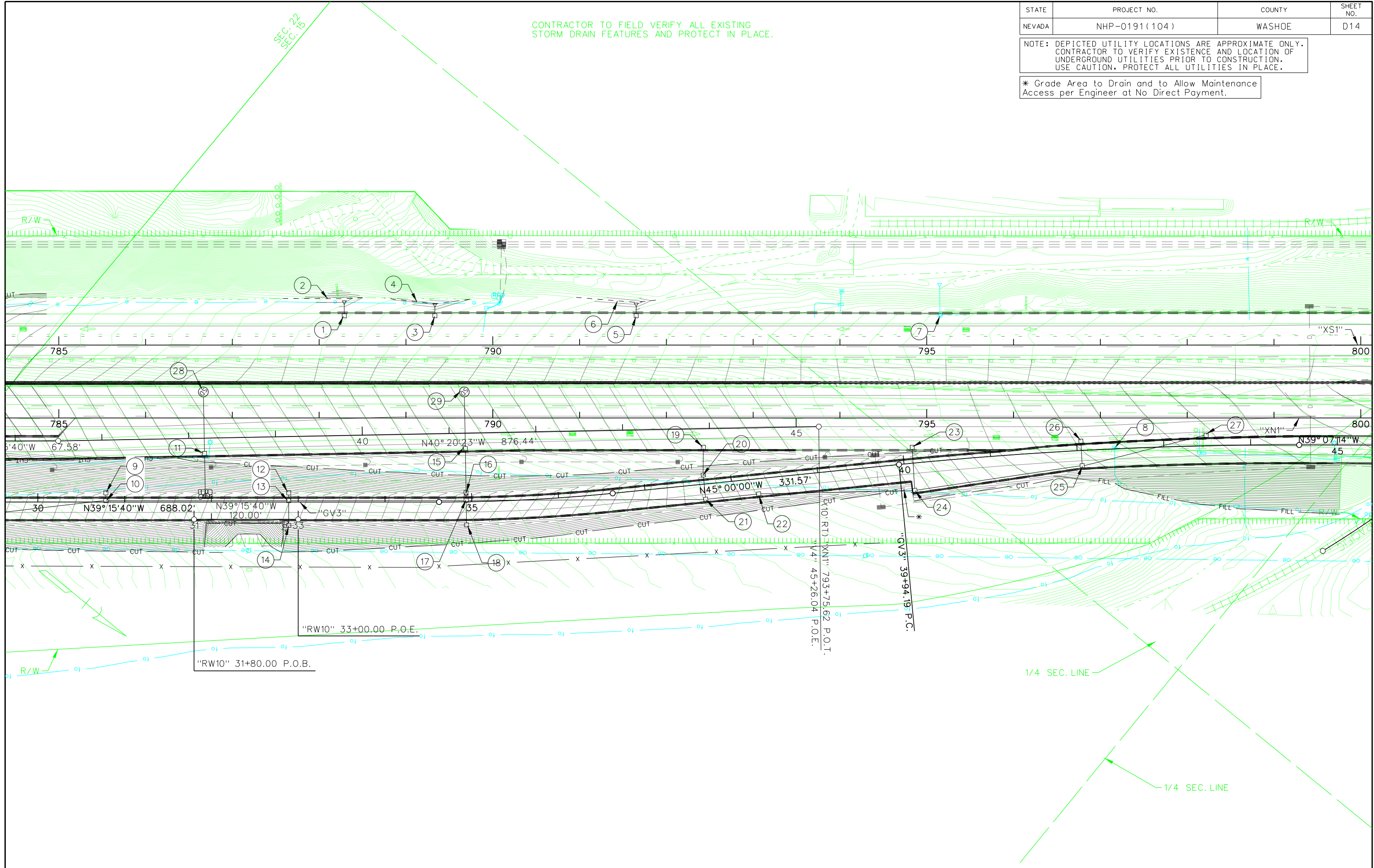
- 30 "GV3" 26+58 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5115.32', H = 3.70', A = 4.00'). INSTALL 18" X 14' RCP (UIE = 5111.62', LIE = 5110.92') AND CONNECT TO MANHOLE AT "GV3" 26+58, 14.9' RT. (SEE SHEET DP14)
- 31 "GV3" 26+76 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5115.35', H = 3.00', A = 4.00'). INSTALL 15" X 14' RCP (UIE = 5112.35', LIE = 5111.95') AND CONNECT TO DROP INLET AT "GV3" 26+58, 2.5' LT. (SEE SHEET DP14)
- 32 "GV3" 26+58 CONSTRUCT TYPE 2A DROP INLET, 26.9' RT. (GRATE ELEV. = 5114.56', H = 3.00', A = 4.00'). INSTALL 15" X 9' RCP (UIE = 5111.56', LIE = 5110.92') AND CONNECT TO MANHOLE AT "GV3" 26+58, 14.9' RT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)
- 33 "GV3" 26+58 CONSTRUCT TYPE 2 MODIFIED MANHOLE, 14.9' RT. (COVER ELEV. = 5115.67', H = 4.70'). INSTALL 30" X 119' RCP (UIE = 5110.97', LIE = 5109.79') AND CONNECT TO MANHOLE AT "GV3" 25+37, 15.7' RT. (SEE SHEET DP13, DP14)
- 34 "GV3" 27+76 CONSTRUCT TYPE 2A DROP INLET, 10.5' LT. (GRATE ELEV. = 5116.22', H = 3.00', A = 4.00'). INSTALL 18" X 6' RCP (UIE = 5113.22', LIE = 5113.17') AND CONNECT TO DROP INLET AT "GV3" 27+76, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)
- 35 "GV3" 27+76 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5116.57', H = 3.50', A = 4.00'). INSTALL 18" X 14' RCP (UIE = 5113.07', LIE = 5112.75') AND CONNECT TO MANHOLE AT "GV3" 27+76, 14.9' RT. (SEE SHEET DP14)
- 36 "GV3" 27+76 CONSTRUCT TYPE 2 MODIFIED MANHOLE, 14.9' RT. (COVER ELEV. = 5116.92', H = 4.93'). INSTALL 24" X 115' RCP (UIE = 5111.99', LIE = 5111.07') AND CONNECT TO MANHOLE AT "GV3" 26+58, 14.9' RT. (SEE SHEET DP13, DP14)
- 37 "GV3" 27+76 CONSTRUCT TYPE 2A DROP INLET, 26.8' RT. (GRATE ELEV. = 5115.83', H = 3.00', A = 4.00'). INSTALL 18" X 9' RCP (UIE = 5112.83', LIE = 5112.75') AND CONNECT TO MANHOLE AT "GV3" 27+76, 14.9' RT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)
- 38 "GV3" 29+23 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5121.64', H = 3.00', A = 4.00'). INSTALL 18" X 14' RCP (UIE = 5118.64', LIE = 5117.58') AND CONNECT TO MANHOLE AT "GV3" 29+23, 14.3' RT. (SEE SHEET DP14)
- 39 "GV3" 29+23 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 14.3' RT. (COVER ELEV. = 5121.98', H = 4.50'). INSTALL 24" X 143' RCP (UIE = 5117.48', LIE = 5112.09') AND CONNECT TO MANHOLE AT "GV3" 27+76, 14.9' RT. (SEE SHEET DP13, DP14)
- 40 "XN" 772+76 CONSTRUCT MODIFIED RIPRAP DIKE FROM "XN" 772+76, 133.9' RT (DIKE ELEV. = 5075.30') TO "XN" 772+87, 116.3' RT (DIKE ELEV. = 5074.34') TO "XN" 772+89, 106.4' RT (DIKE ELEV. = 5074.00') TO "XN" 772+90, 102.5' RT (DIKE ELEV. = 5074.00') TO "XN" 772+92, 94.8' RT (DIKE ELEV. = 5074.41') TO "XN" 772+96, 88.5' RT (DIKE ELEV. = 5075.50'). (SEE SHEET DD1)
- 41 "XS" 769+37 CONSTRUCT ROADSIDE BITUMINOUS DITCH FROM "XS" 769+37, 59.3' LT (IE = 5070.00') TO "XS" 770+12, 23.9' RT (IE = 5070.10') TO "XN" 770+46, 23.2' LT (IE = 5070.91') TO "XN" 770+95, 33.9' RT (IE = 5072.20') TO "XN" 771+04, 44.5' RT (IE = 5072.65'). BLEND WITH EXISTING DITCH AT INLET AND OUTLET PER ENGINEER AT NO DIRECT PAYMENT. (RSS = 5.1:1; H = 0.8') (SEE SHEET DD2)
- 42 "XN" 772+24 CONSTRUCT ROADSIDE BITUMINOUS DITCH FROM "XN" 772+24, 91.6' RT (IE = 5073.78') TO "XN" 772+01, 63.6' RT (IE = 5072.73') TO "XN" 771+71, 25.4' RT (IE = 5071.50') TO "XN" 771+44, 8.1' LT (IE = 5070.82') TO "XN" 771+20, 37.5' LT (IE = 5070.21') TO "XS" 770+53, 29.3' LT (IE = 5069.50'). BLEND WITH EXISTING DITCH AT INLET AND OUTLET PER ENGINEER AT NO DIRECT PAYMENT. (RSS = 5.1:1; H = 0.8') (SEE SHEET DD2)
- 43 "XS" 771+49 CONSTRUCT WALL DITCH FROM "XS" 771+49, 22.1' LT (ELEV. = 5097.24') TO "XS" 771+09, 22.1' LT (ELEV. = 5071.33'). (SEE SHEET DD2)
- 44 "XS" 771+09 CONSTRUCT TRAPEZOIDAL CONCRETE DITCH FROM "XS" 771+09, 23.6' LT (RSS = 3:1, LSS = 3:1, H = 0.5', W = 0.0', IE = 5070.83') TO "XS" 770+58, 30.2' LT (H = 0.0', W = 4.5'). BLEND WITH DOWNSTREAM DITCH PER ENGINEER. GRADE FROM DITCH TO EXISTING ON RT SIDE AT 2:1.
- 45 "GV3" 26+32 CONSTRUCT WALL DITCH FROM "GV3" 26+32, 62.0' RT (ELEV. = 5130.89') TO "GV3" 26+57, 40.7' RT (ELEV. = 5120.61'). (SEE SHEET DD2)
- 46 "GV3" 26+58 CONSTRUCT TRAPEZOIDAL CONCRETE DITCH FROM "GV3" 26+58, 41.9' RT (RSS = 3:1, LSS = 3:1, H = 0.5', W = 0.0', IE = 5120.11') TO "GV3" 26+58, 28.4' RT (H = 0.0', W = 3.0'). WARP TO ADJACENT DITCH AT INLET. GRADE FROM DITCH TO EXISTING ON RT AND LT SIDE AT 2:1.
- 47 "GV3" 28+41 CONSTRUCT WALL DITCH FROM "GV3" 28+41, 70.7' LT (ELEV. = 5142.02') TO "GV3" 27+93, 59.6' LT (ELEV. = 5140.18') TO "GV3" 27+39, 42.4' LT (ELEV. = 5130.86). (SEE SHEET DD2)
- 48 "GV3" 27+39 CONSTRUCT TRAPEZOIDAL CONCRETE DITCH FROM "GV3" 27+39, 43.8' LT (RSS = 3:1, LSS = 3:1, H = 0.5', W = 0.0', IE = 5130.36') TO "GV3" 27+25, 34.1' LT (RSS = 3:1, LSS = 3:1, H = 0.5', W = 0.0', IE = 5126.00') TO "GV3" 27+19, 10.8' LT (H = 0.0', W = 3.2'). WARP TO ADJACENT DITCH AT INLET. GRADE FROM DITCH TO EXISTING ON RT AND LT SIDE AT 2:1. CONSTRUCT 4' X 4' X 1.5' THICK CLASS 300 RIPRAP PAD AT CHANNEL OUTLET TO BE CONFORMED TO DITCH PER ENGINEER.
- 49 "XN1" 776+83 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 17.0' RT. (GRATE ELEV. = 5113.60', H = 3.50', A = 2.50'). INSTALL 18" X 143' RCP (UIE = 5110.10', LIE = 5104.51') AND CONNECT TO DROP INLET AT "XN1" 775+42, 52.1' RT. (SEE SHEET DP15)
- 50 "XN1" 777+24 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 17.0' RT. (GRATE ELEV. = 5115.19', H = 3.50', A = 3.00'). INSTALL 18" X 39' RCP (UIE = 5111.69', LIE = 5110.20') AND CONNECT TO DROP INLET AT "XN1" 776+83, 17.0' RT. (SEE SHEET DP15)
- 51 "XN1" 781+35 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 17.0' RT. (GRATE ELEV. = 5134.11', H = 4.00', A = 2.50'). INSTALL 18" CMP DOWN DRAIN TO "GV3" 26+58, 11.1' LT (IE = 5115.04').
- 52 "XN1" 775+67 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 30.0' LT. (COVER ELEV. = 5108.97', H = 3.30'). INSTALL 15" X 81' RCP (UIE = 5105.67', LIE = 5105.30') AND CONNECT TO DROP INLET AT "XN1" 775+42, 52.1' RT. CONNECT RETAINING WALL DRAIN PIPE TO MANHOLE. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.
- 53 "XN1" 781+35 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 30.0' LT. (COVER ELEV. = 5135.44', H = 3.30'). INSTALL 15" X 43' RCP (UIE = 5132.14', LIE = 5131.24') AND CONNECT TO DROP INLET AT "XN1" 781+35, 17.0' RT. CONNECT RETAINING WALL DRAIN PIPE TO MANHOLE. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.
- 54 "XN1" 777+24 CONSTRUCT TYPE 2A DROP INLET, 23.9' RT. (GRATE ELEV. = 5114.44', H = 2.50', A = 2.00'). INSTALL 15" X 3' RCP (UIE = 5111.94', LIE = 5111.68') AND CONNECT TO DROP INLET AT "XN" 777+24, 17.0' RT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. GRADE AROUND TO DRAIN TO DROP INLET PER ENGINEER.

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NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION, PROTECT ALL UTILITIES IN PLACE.

* Grade Area to Drain and to Allow Maintenance Access per Engineer at No Direct Payment.

CONTRACTOR TO FIELD VERIFY ALL EXISTING STORM DRAIN FEATURES AND PROTECT IN PLACE.



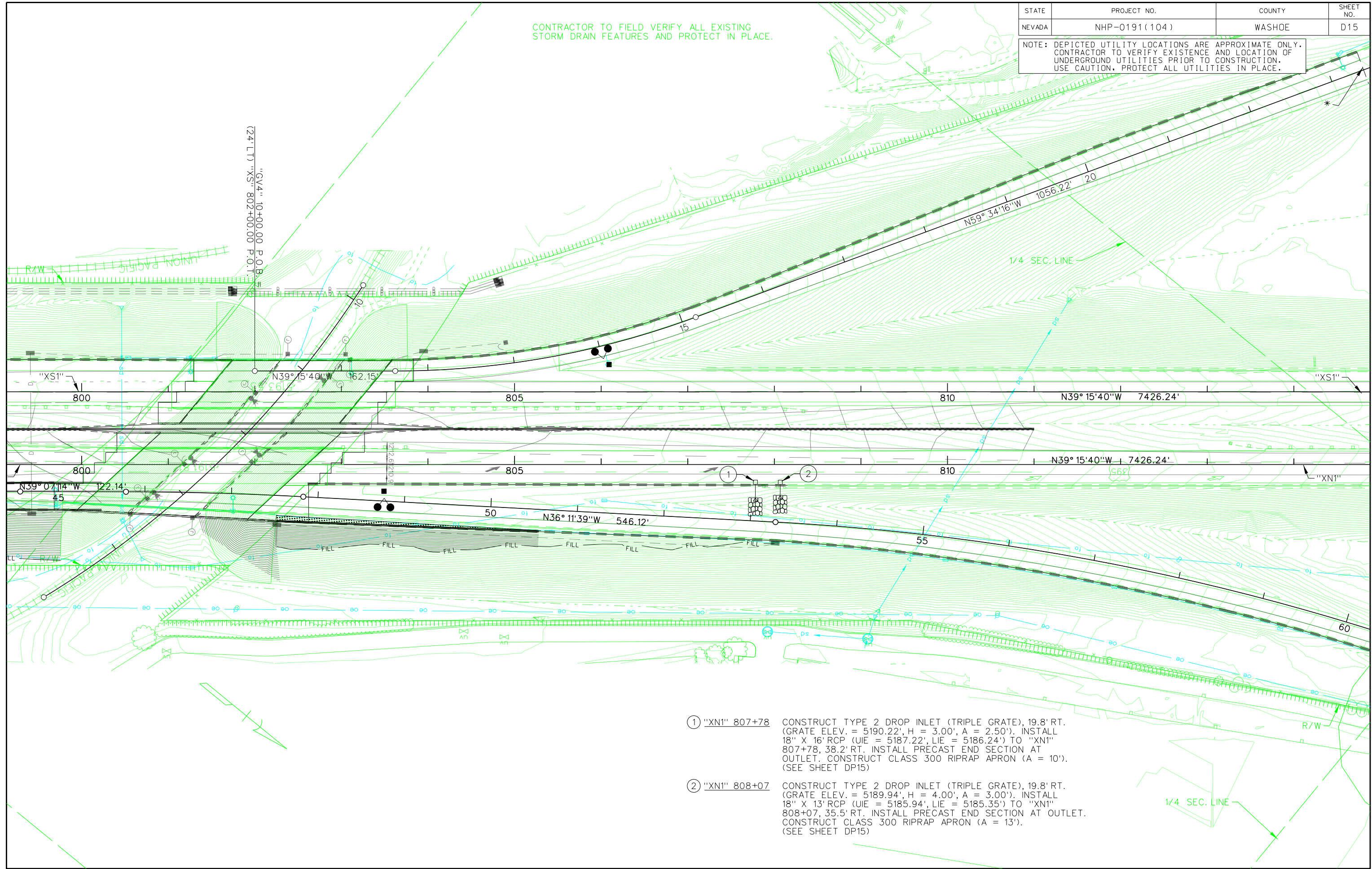
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- ① "XS1" 788+29 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.1' LT. (GRATE ELEV. = 5166.83', H = 2.50', A = 2.50'). INSTALL 15" X 11' RCP (UIE = 5164.33', LIE = 5164.22') TO "XS1" 788+29, 46.9' LT. INSTALL PRECAST END SECTION AT OUTLET. GRADE OUTLET TO DRAIN TO ADJACENT DITCH. (SEE SHEET DP14)
- ② "XS1" 787+58 CONSTRUCT EARTHEN V-TYPE DITCH FROM "XS1" 787+58, 53.6' LT (IE = 5164.00') TO "XS1" 788+29, 53.4' LT (IE = 5164.15') TO "XS1" 788+50, 54.6' LT (IE = 5166.00'). (RSS = 5:1, LSS = 2:1, H = VARIES)
- ③ "XS1" 789+33 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.2' LT. (GRATE ELEV. = 5169.51', H = 2.50', A = 2.50'). INSTALL 15" X 8' RCP (UIE = 5167.01', LIE = 5166.93') TO "XS1" 789+33, 43.8' LT. INSTALL PRECAST END SECTION AT OUTLET. GRADE OUTLET TO DRAIN TO ADJACENT DITCH. (SEE SHEET DP14)
- ④ "XS1" 788+75 CONSTRUCT EARTHEN V-TYPE DITCH FROM "XS1" 788+75, 54.2' LT (IE = 5166.60') TO "XS1" 789+33, 47.4' LT (IE = 5166.77') TO "XS1" 789+74, 52.8' LT (IE = 5169.00'). (RSS = 3:1, LSS = 3:1, H = VARIES)
- ⑤ "XS1" 791+65 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.2' LT. (GRATE ELEV. = 5175.47', H = 3.00', A = 3.00'). INSTALL 18" X 8' RCP (UIE = 5172.47', LIE = 5172.39') TO "XS1" 791+65, 44.2' LT. INSTALL PRECAST END SECTION AT OUTLET. GRADE OUTLET TO DRAIN TO ADJACENT DITCH. (SEE SHEET DP15)
- ⑥ "XS1" 790+93 CONSTRUCT EARTHEN V-TYPE DITCH FROM "XS1" 790+93, 55.2' LT (IE = 5172.00') TO "XS1" 791+65, 49.1' LT (IE = 5172.20') TO "XS1" 791+88, 51.8' LT (IE = 5174.58'). (RSS = 3:1, LSS = 3:1, H = VARIES)
- ⑦ "XS1" 795+15 REMOVE EXISTING DROP INLET, 34.4' LT AND 18" CMP DOWN DRAIN. REMOVE SLOTTED DRAIN.
- ⑧ "XN1" 797+16 REMOVE EXISTING DROP INLET, 34.6' RT AND 18" CMP DOWN DRAIN. REMOVE SLOTTED DRAIN.
- ⑨ "GV3" 30+78 CONSTRUCT TYPE 2A DROP INLET, 10.5' LT. (GRATE ELEV. = 5129.45', H = 3.00', A = 4.00'). INSTALL 18" X 6' RCP (UIE = 5126.45', LIE = 5125.88') AND CONNECT TO DROP INLET AT "GV3" 30+78, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)
- ⑩ "GV3" 30+78 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5129.78', H = 4.00', A = 4.00'). INSTALL 24" X 154' RCP (UIE = 5125.78', LIE = 5117.58') AND CONNECT TO MANHOLE AT "GV3" 29+23, 14.3' RT. (SEE SHEET DP13, DP14)
- ⑪ "XN1" 786+68 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 40.3' RT. (GRATE ELEV. = 5154.05', H = 4.00', A = 3.00'). INSTALL 18" CMP DOWN DRAIN TO "GV3" 31+93, 11.5' LT (IE = 5135.33'). CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET.
- ⑫ "GV3" 32+89 CONSTRUCT TYPE 2A DROP INLET, 10.5' LT. (GRATE ELEV. = 5140.56', H = 3.62', A = 4.00'). INSTALL 18" X 6' RCP (UIE = 5136.94', LIE = 5136.77') AND CONNECT TO DROP INLET AT "GV3" 32+89, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)
- ⑬ "GV3" 32+89 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5140.91', H = 4.24', A = 4.00'). INSTALL 18" X 207' RCP (UIE = 5136.67', LIE = 5125.88') AND CONNECT TO DROP INLET AT "GV3" 30+78, 2.5' LT. (SEE SHEET DP13, DP14)
- ⑭ "GV3" 32+89 CONSTRUCT TYPE 2A DROP INLET, 26.9' RT. (GRATE ELEV. = 5139.90', H = 3.00', A = 4.00'). INSTALL 18" X 27' RCP (UIE = 5136.90', LIE = 5136.77') AND CONNECT TO DROP INLET AT "GV3" 32+89, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)
- ⑮ "XN1" 789+68 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 34.7' RT. (GRATE ELEV. = 5164.16', H = 4.00', A = 2.50'). INSTALL 18" CMP DOWN DRAIN TO "GV3" 34+94, 11.5' LT (IE = 5151.26').
- ⑯ "GV3" 34+94 CONSTRUCT TYPE 2A DROP INLET, 10.5' LT. (GRATE ELEV. = 5151.26', H = 3.00', A = 4.00'). INSTALL 18" X 6' RCP (UIE = 5148.26', LIE = 5147.98') AND CONNECT TO DROP INLET AT "GV3" 34+94, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP15)
- ⑰ "GV3" 34+94 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5151.64', H = 3.76', A = 4.00'). INSTALL 18" X 201' RCP (UIE = 5147.88', LIE = 5136.77') AND CONNECT TO DROP INLET AT "GV3" 32+89, 2.5' LT. (SEE SHEET DP13, DP15)
- ⑱ "GV3" 34+94 CONSTRUCT TYPE 2A DROP INLET, 26.7' RT. (GRATE ELEV. = 5151.25', H = 3.00', A = 4.00'). INSTALL 18" X 27' RCP (UIE = 5148.25', LIE = 5147.98') AND CONNECT TO DROP INLET AT "GV3" 34+94, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP15)
- ⑲ "XN1" 792+43 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.2' RT. (GRATE ELEV. = 5172.88', H = 5.00', A = 2.50'). INSTALL 18" X 29' RCP (UIE = 5167.88', LIE = 5163.10') AND CONNECT TO DROP INLET AT "GV3" 37+69, 10.5' LT. (SEE SHEET DP15)
- ⑳ "GV3" 37+69 CONSTRUCT TYPE 2A DROP INLET, 10.5' LT. (GRATE ELEV. = 5166.00', H = 3.00', A = 4.00'). INSTALL 18" X 24' RCP (UIE = 5163.00', LIE = 5162.53') AND CONNECT TO DROP INLET AT "GV3" 37+69, 17.0' RT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP15)
- ㉑ "GV3" 37+69 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 17.0' RT. (GRATE ELEV. = 5166.11', H = 3.68', A = 2.50'). INSTALL 18" X 274' RCP (UIE = 5162.43', LIE = 5147.98') AND CONNECT TO DROP INLET AT "GV3" 34+94, 2.5' LT. (SEE SHEET DP13, DP15)
- ㉒ "GV3" 38+30 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 17.0' RT. (GRATE ELEV. = 5169.16', H = 3.00', A = 2.50'). INSTALL 18" X 59' RCP (UIE = 5166.16', LIE = 5162.53') AND CONNECT TO DROP INLET AT "GV3" 37+69, 17.0' RT. (SEE SHEET DP13)
- ㉓ "XN1" 794+83 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.2' RT. (GRATE ELEV. = 5180.04', H = 4.19', A = 2.50'). INSTALL 18" X 44' RCP (UIE = 5175.85', LIE = 5174.78') AND CONNECT TO DROP INLET AT "GV3" 40+09, 30.9' RT. (SEE SHEET DP15)
- ㉔ "GV3" 40+09 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 30.9' RT. (GRATE ELEV. = 5178.18', H = 5.00', A = 2.50'). INSTALL 18" X 178' RCP (UIE = 5173.18', LIE = 5166.26') AND CONNECT TO DROP INLET AT "GV3" 38+30, 17.0' RT. (SEE SHEET DP13, DP15)
- ㉕ "GV3" 42+05 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 17.0' RT. (GRATE ELEV. = 5184.53', H = 3.50', A = 2.50'). INSTALL 18" X 193' RCP (UIE = 5181.03', LIE = 5174.78') AND CONNECT TO DROP INLET AT "GV3" 40+09, 30.9' RT. (SEE SHEET DP13, DP15)
- ㉖ "XN1" 796+78 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 26.2' RT. (GRATE ELEV. = 5184.95', H = 3.00', A = 2.50'). INSTALL 18" X 23' RCP (UIE = 5181.95', LIE = 5181.13') AND CONNECT TO DROP INLET AT "GV3" 42+05, 17.0' RT. (SEE SHEET DP15)
- ㉗ "XN1" 798+22 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 20.4' RT. (GRATE ELEV. = 5187.89', H = 3.50', A = 2.50'). INSTALL 18" X 145' RCP (UIE = 5184.39', LIE = 5181.13') AND CONNECT TO DROP INLET AT "GV3" 42+05, 17.0' RT. (SEE SHEET DP13)
- ㉘ "XN1" 786+67 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 30.0' LT. (COVER ELEV. = 5155.61', H = 3.30'). INSTALL 15" X 66' RCP (UIE = 5152.31', LIE = 5151.16') AND CONNECT TO DROP INLET AT "XN1" 786+68, 40.3' RT. CONNECT RETAINING WALL DRAIN PIPE TO MANHOLE. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.
- ㉙ "XN1" 789+67 CONSTRUCT TYPE 1 MODIFIED MANHOLE, 30.0' LT. (COVER ELEV. = 5165.16', H = 3.30'). INSTALL 15" X 60' RCP (UIE = 5161.86', LIE = 5161.25') AND CONNECT TO DROP INLET AT "XN1" 789+68, 34.7' RT. CONNECT RETAINING WALL DRAIN PIPE TO MANHOLE. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.

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CONTRACTOR TO FIELD VERIFY ALL EXISTING STORM DRAIN FEATURES AND PROTECT IN PLACE.

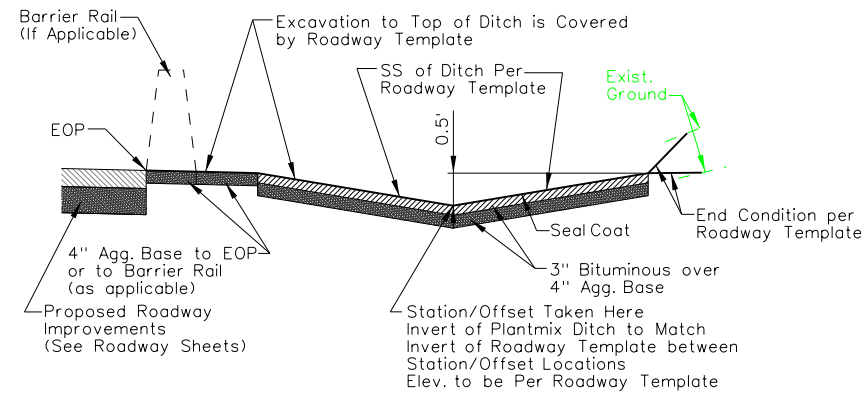
NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION, PROTECT ALL UTILITIES IN PLACE.



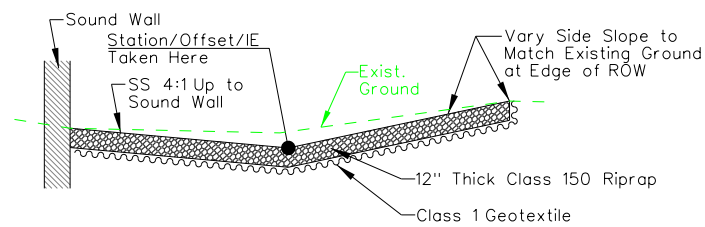
① "XN1" 807+78 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 19.8' RT. (GRATE ELEV. = 5190.22', H = 3.00', A = 2.50'). INSTALL 18" X 16' RCP (UIE = 5187.22', LIE = 5186.24') TO "XN1" 807+78, 38.2' RT. INSTALL PRECAST END SECTION AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON (A = 10'). (SEE SHEET DP15)

② "XN1" 808+07 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 19.8' RT. (GRATE ELEV. = 5189.94', H = 4.00', A = 3.00'). INSTALL 18" X 13' RCP (UIE = 5185.94', LIE = 5185.35') TO "XN1" 808+07, 35.5' RT. INSTALL PRECAST END SECTION AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON (A = 13'). (SEE SHEET DP15)

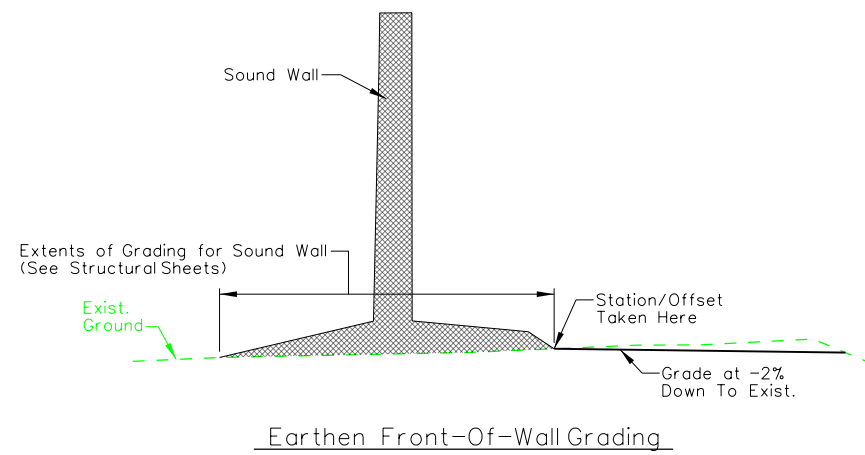
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	DD1



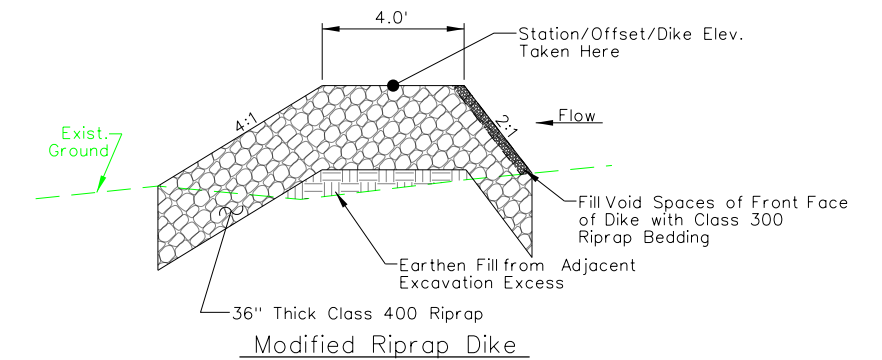
Modified Bituminous Ditch "A"
 Note: See Standard Plan DS-3A for Any Information Not Provided Pertaining to Bituminous Ditches



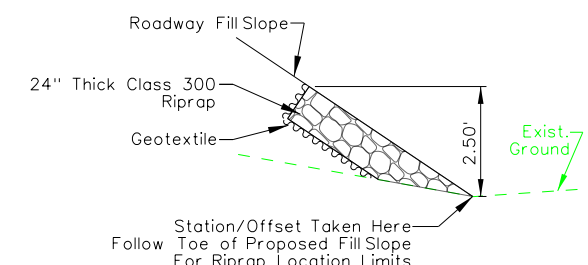
Modified Riprap V-Type Ditch
 Note: Wrap Riprap and Ditch Around Drop Inlet Per Engineer



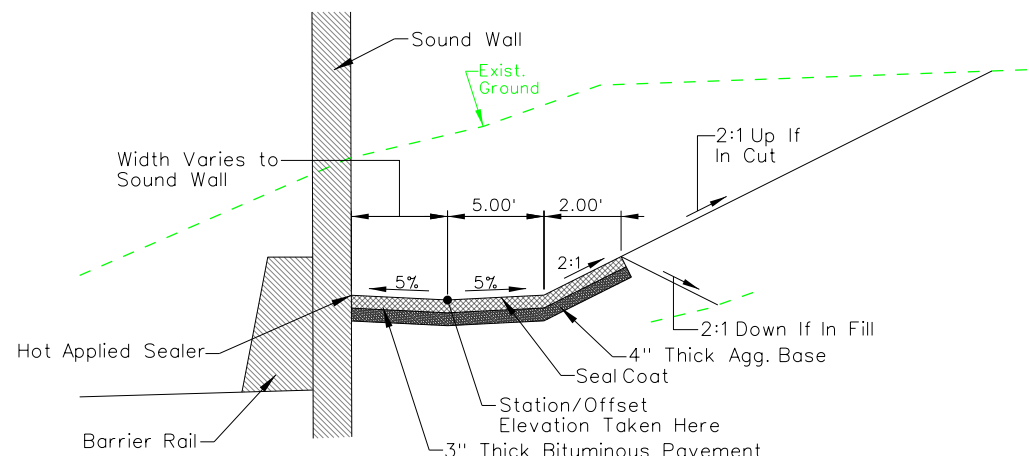
Earthen Front-Of-Wall Grading



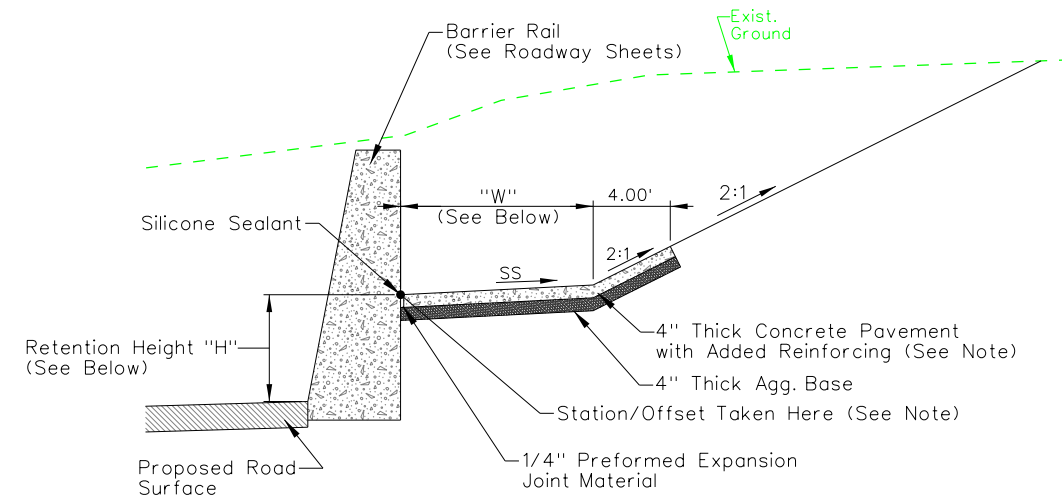
Modified Riprap Dike



Riprap Toe-Of-Fill-Slope Protection



Modified Bituminous Ditch
 Notes:
 See Standard Plan DS-3A for Additional Information not Provided



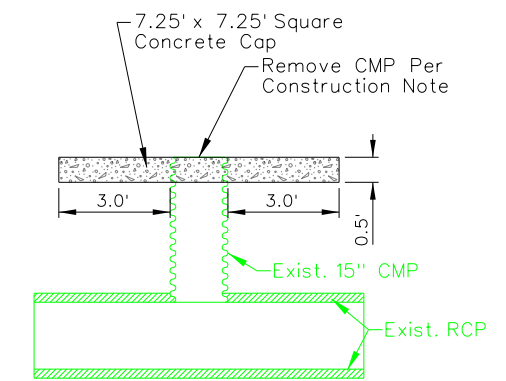
Concrete Ditch Behind Rail

Notes:
 Between Provided Stations and Offsets, Ditch to Be Constructed up Against the Back of the Barrier Rail

See Standard Plan DS-3A for Additional Information not Provided

Reinforcing Shall be #4 Bars @18" O.C. Each Way and 2" Below Top of Pavement. Bar Ends Shall be Kept 1-1/2" Clear of Edges of Concrete. Reinforcing Bars May be Cut and Bent in the Field.

Ditch Information
 "XS" 652+70 (SS = 0%; W = 10.22'; H = 3.00') to
 "XS" 652+99 (SS = 12%; W = 3.00'; H = 3.00') to
 "XS" 654+54 (SS = 12%; W = 3.00'; H = 3.00') to
 "XS" 656+90 (SS = 12%; W = 3.00'; H = 0.00')*
 *Taper H from 3.00' at "XS" 654+54 to 0.00' at "XS" 656+90



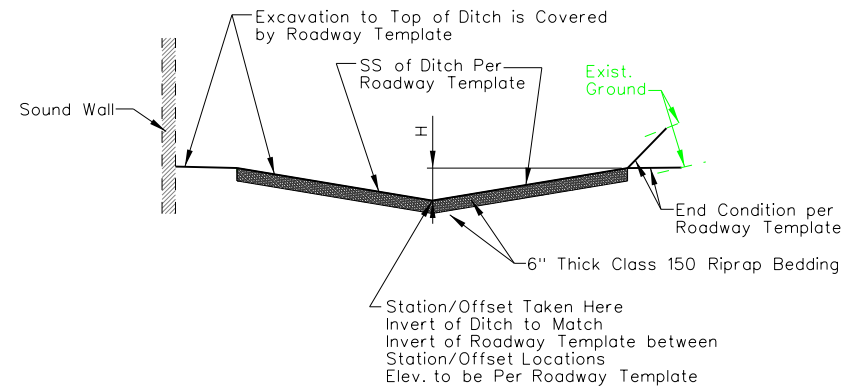
CMP Riser Cap

Note: Reinforcing to be #4 Bars @6" Each Way On Center and 2" Clear of All Sides and 1-1/2" from the Bottom

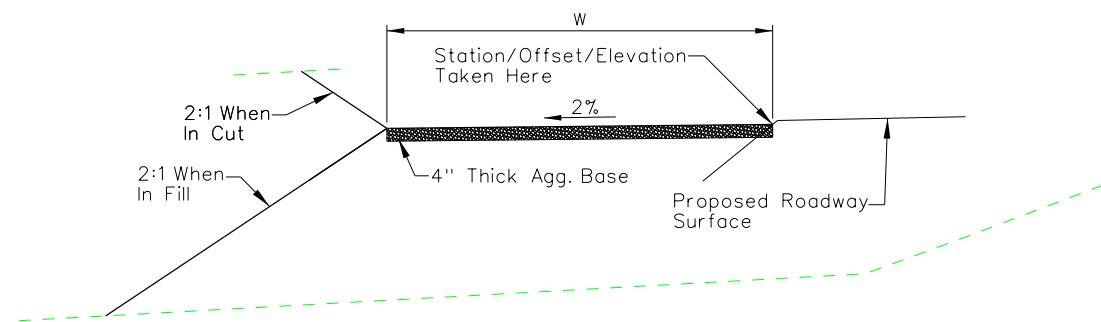
STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

**DRAINAGE
 DETAILS**

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	DD2

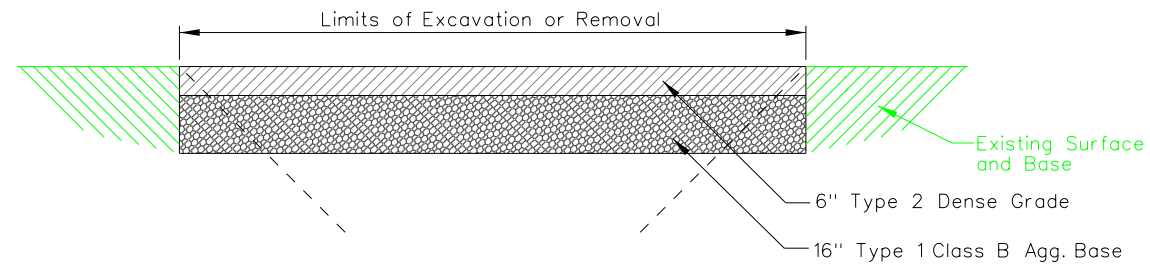


Class 150 Riprap Bedding Ditch "A"

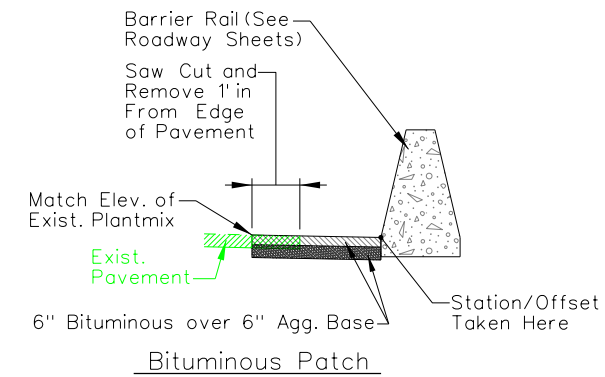


Access Road

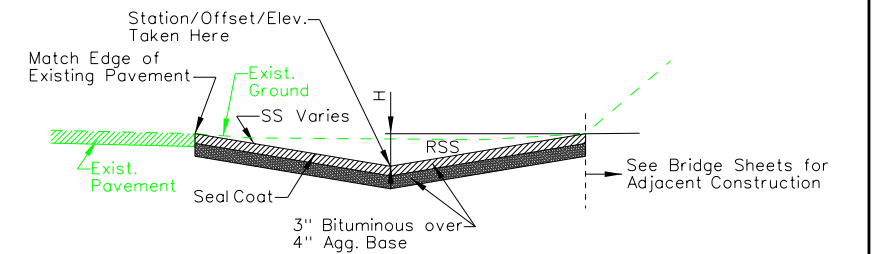
Note: Fill material for access road to be from excess material generated from adjacent project excavation and used at no direct payment.



Patching Detail for Bituminous Pavement Locations

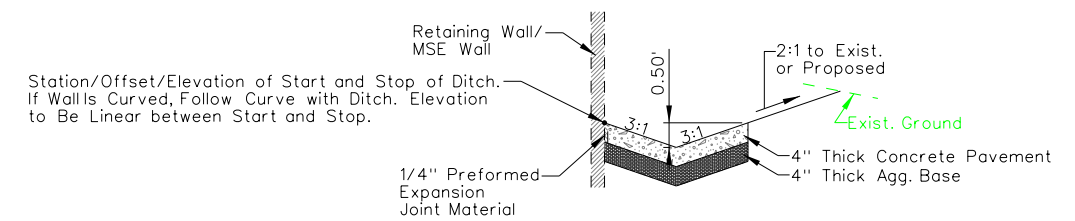


Bituminous Patch



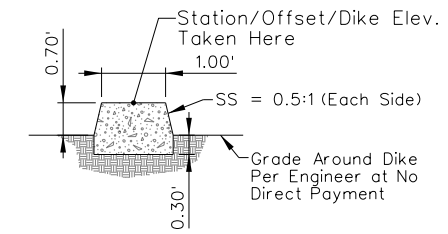
Roadside Bituminous Ditch

Note: See Standard Plan DS-3A for Any Information Not Provided Pertaining to Bituminous Ditches



Wall Ditch

Note: See Standard Plan DS-3A for Any Information Not Provided Pertaining to Concrete Ditches

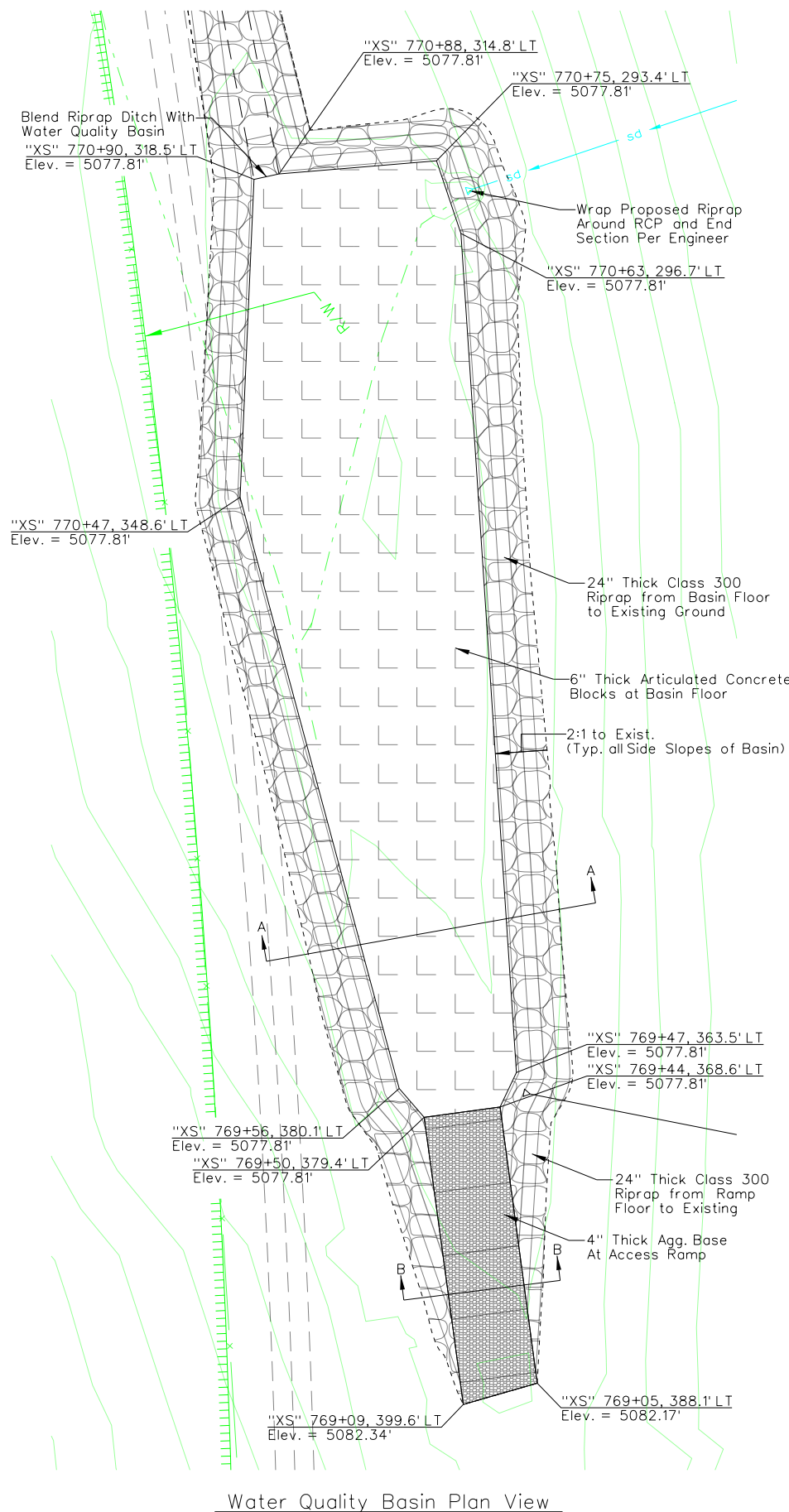


Concrete Dike

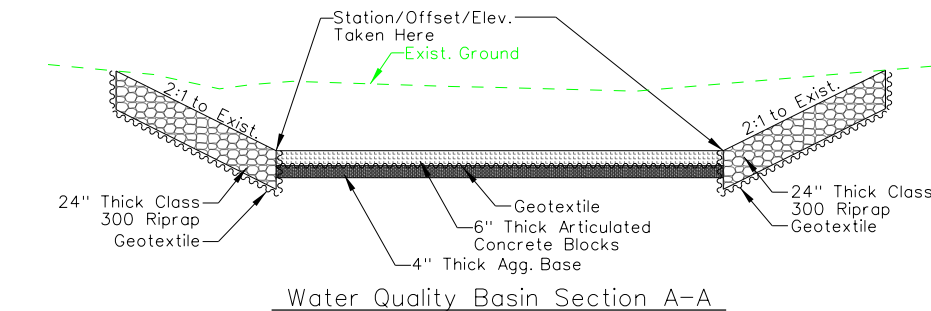
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

DRAINAGE
DETAILS

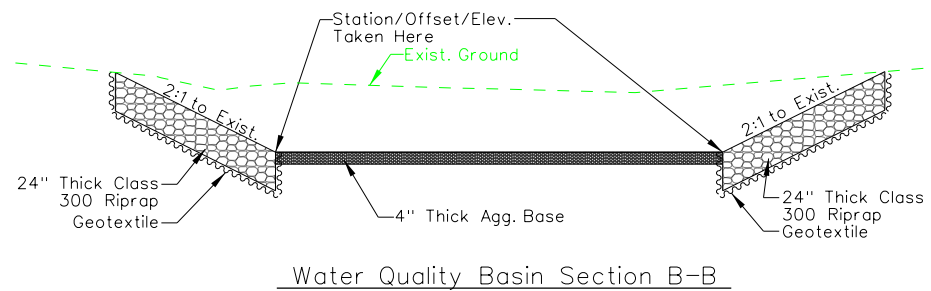
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	DD3



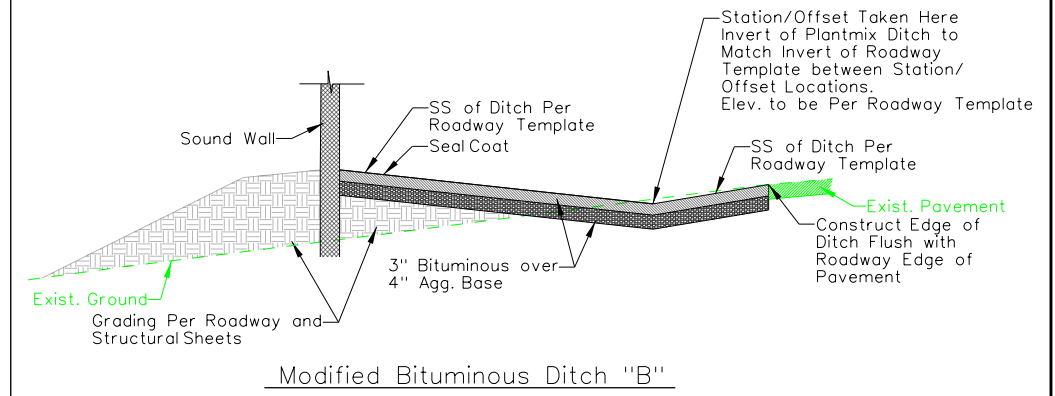
Water Quality Basin Plan View



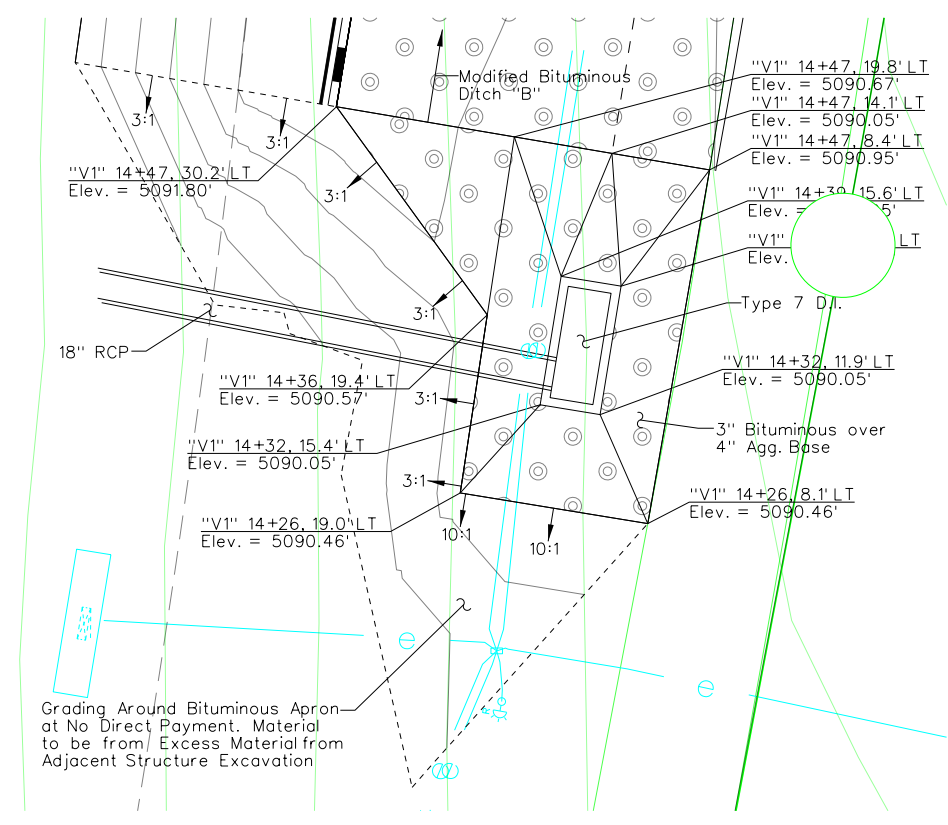
Water Quality Basin Section A-A



Water Quality Basin Section B-B



Modified Bituminous Ditch "B"

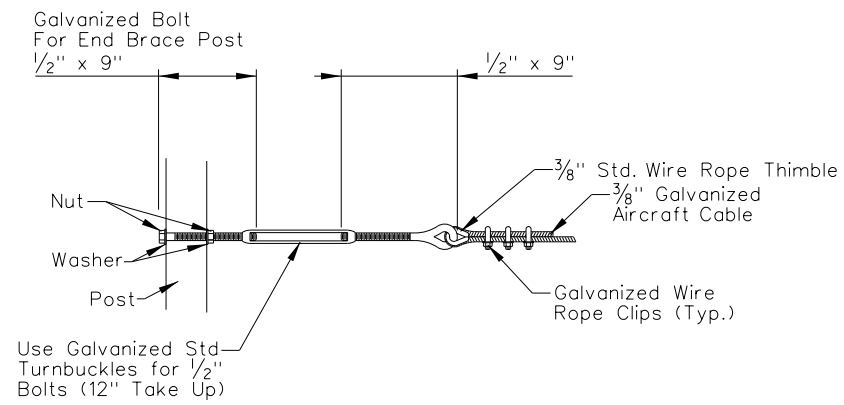


"V1" 14+36 BITUMINOUS APRON

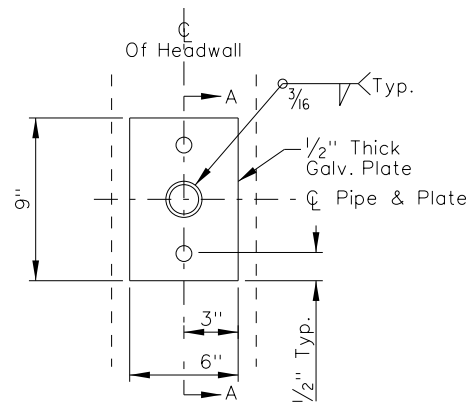
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

DRAINAGE
DETAILS

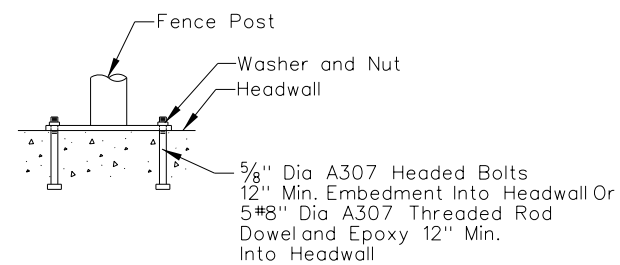
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	DD4



DETAIL 1
NTS



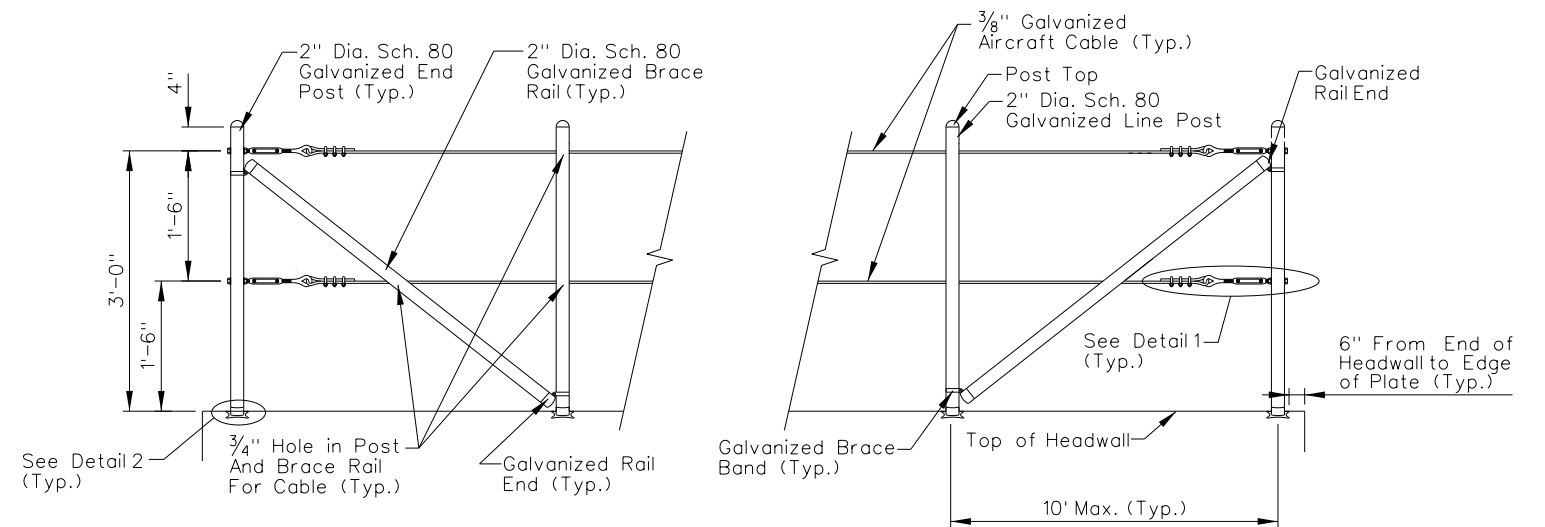
DETAIL 2
NTS



SECTION A-A
NTS

NOTES:

1. GALVANIZE COMPONENTS AFTER FABRICATION.
2. POST/BRACE SHALL BE ASTM A53.
3. PLATES SHALL BE ASTM A572, GRADE 50.
4. WELDING E70 ELECTRODE.
5. GALVANIZED BRACE BANDS SIZED FOR 1500 LBS (WORKING LOAD)

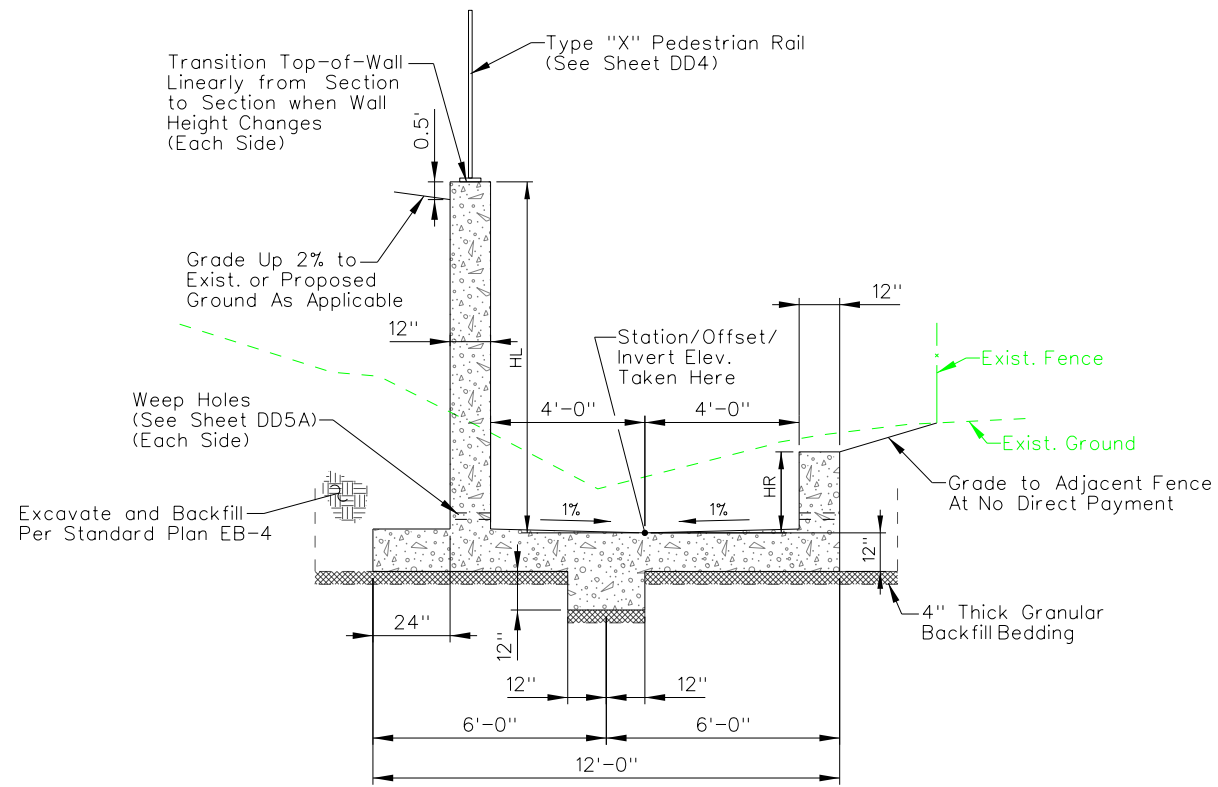


TYPE "X" PEDESTRIAN RAIL
NTS

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

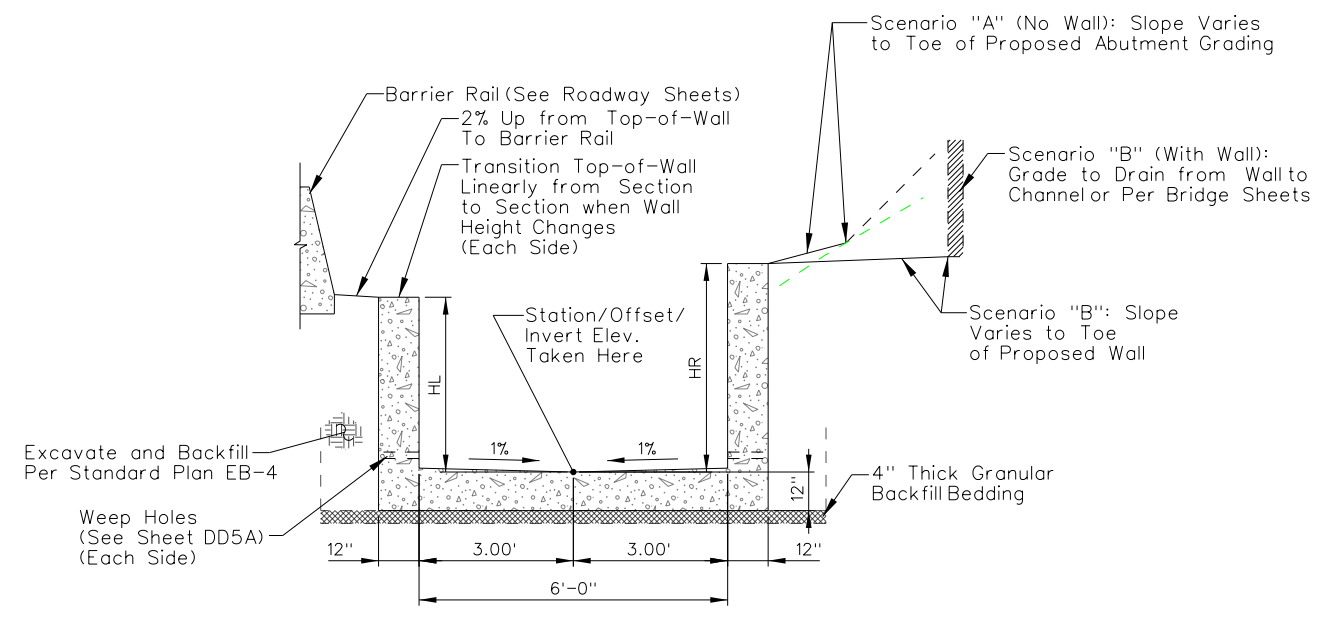
PEDESTRIAN RAIL
TYPE "X"

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	DD5



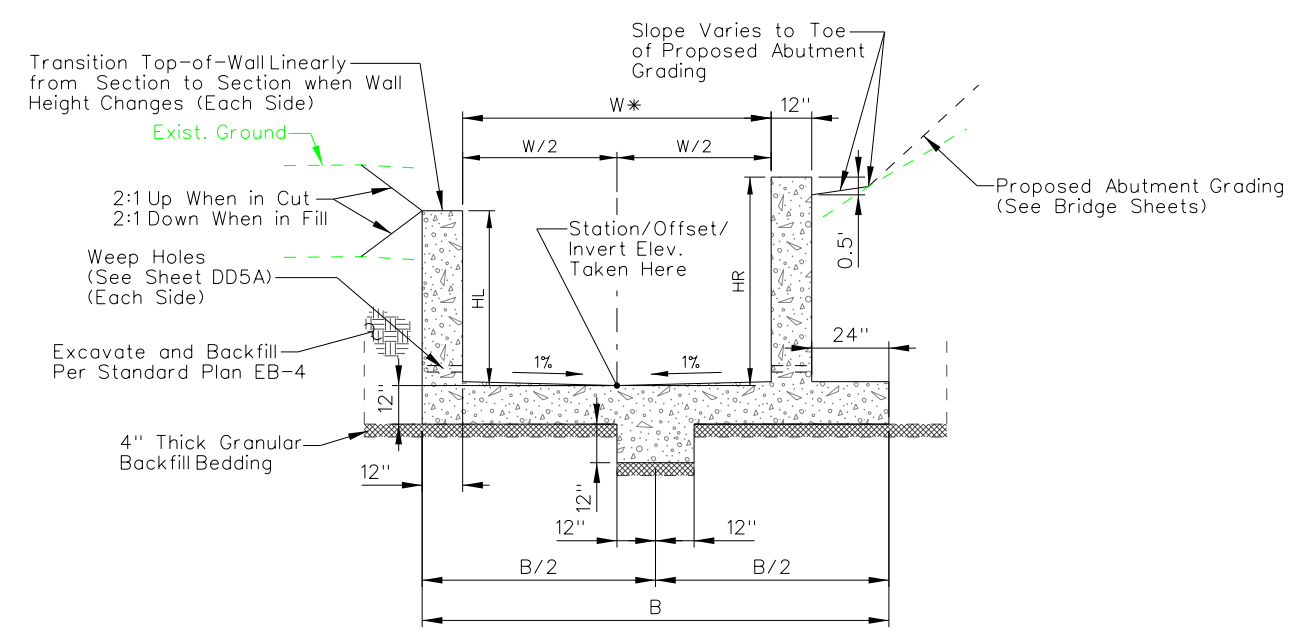
Concrete Channel "B"

Note:
 - See Sheet DD5A for Additional Information
 - Fill Material beyond Granular Backfill to Be at No Direct Payment



Concrete Channel "D"

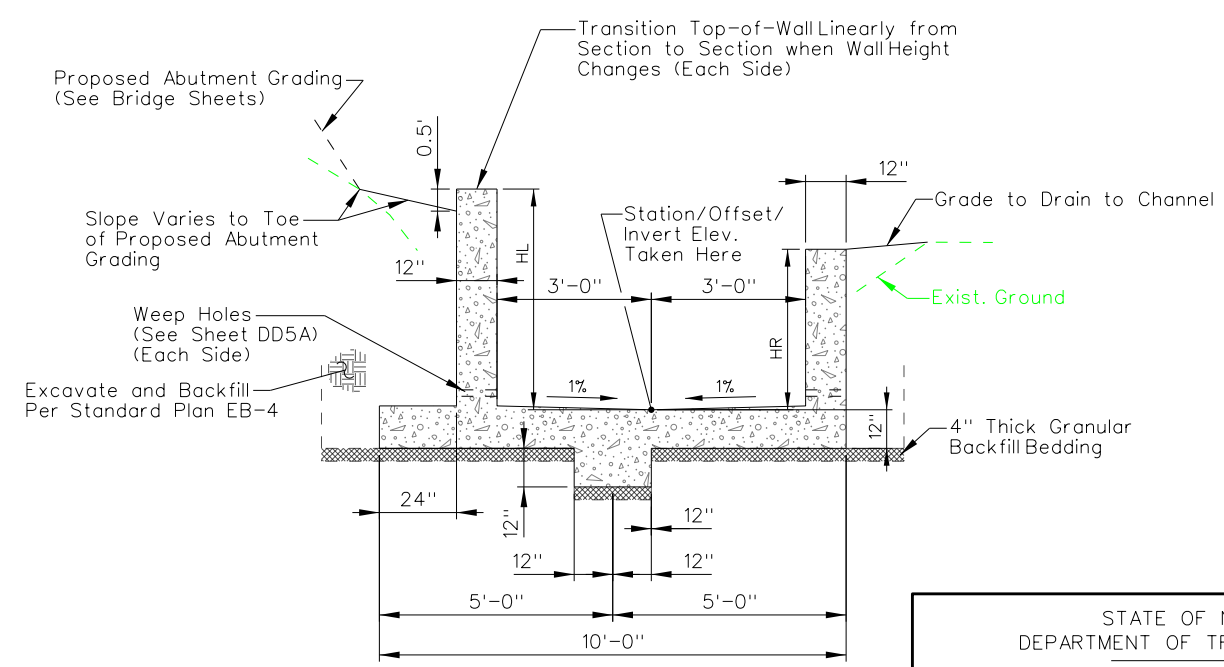
Note:
 - See Sheet DD5A for Additional Information
 - Fill Material beyond Granular Backfill to Be at No Direct Payment



Concrete Channel "E"

Note:
 - See Sheet DD5A for Additional Information
 - Fill Material beyond Granular Backfill to Be at No Direct Payment

* Transition Bottom Width Linearly from Section to Section when Bottom Width Changes



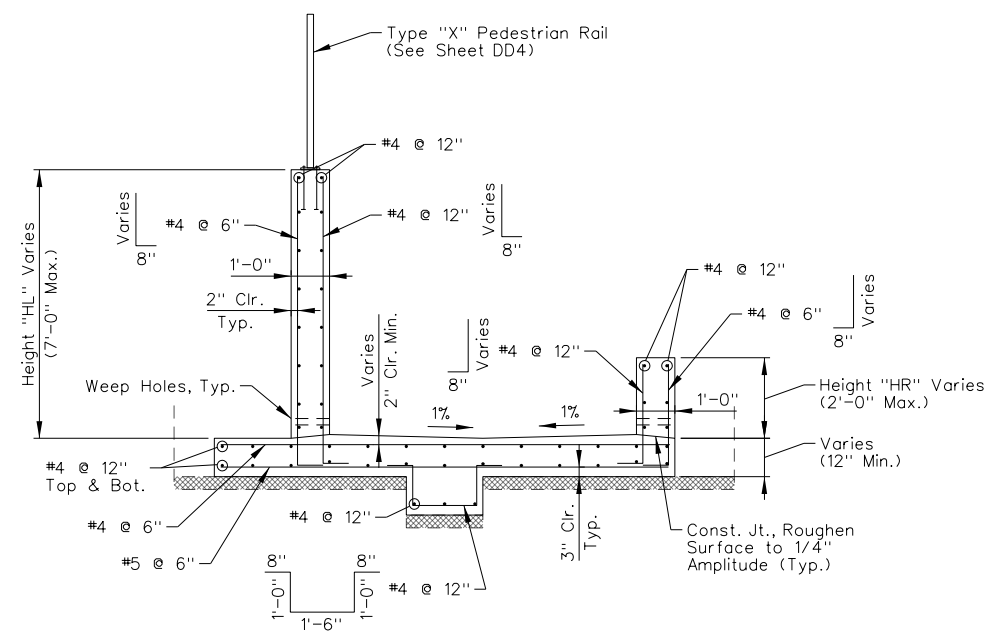
Concrete Channel "C"

Note:
 - See Sheet DD5A for Additional Information
 - Fill Material beyond Granular Backfill to Be at No Direct Payment

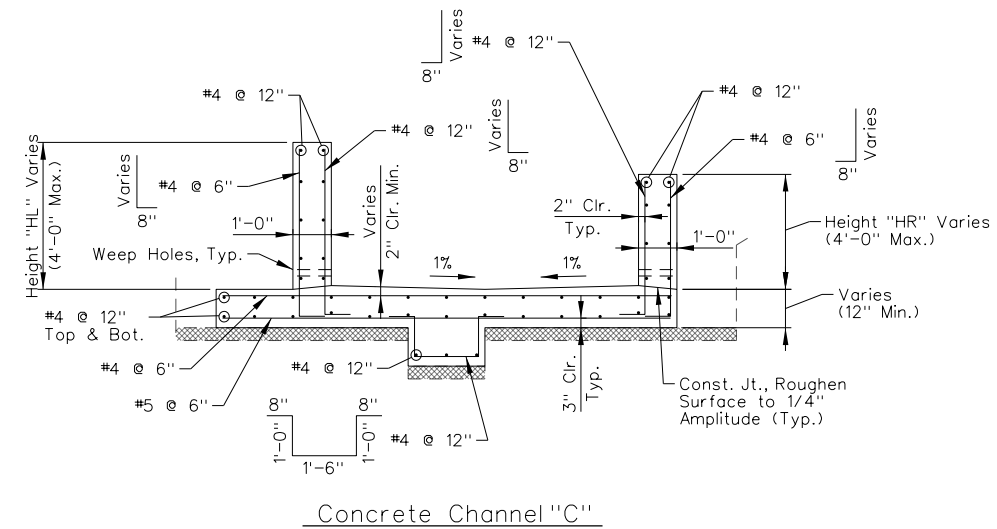
STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

**DRAINAGE
 DETAIL**

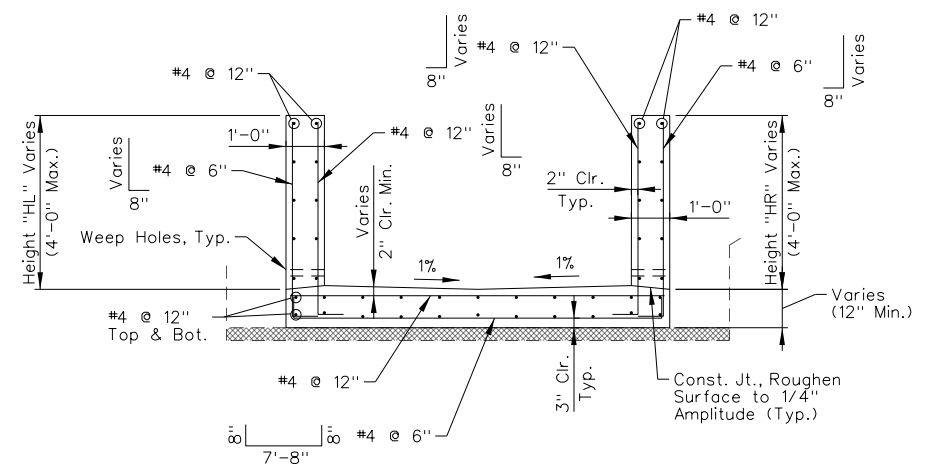
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	DD5A



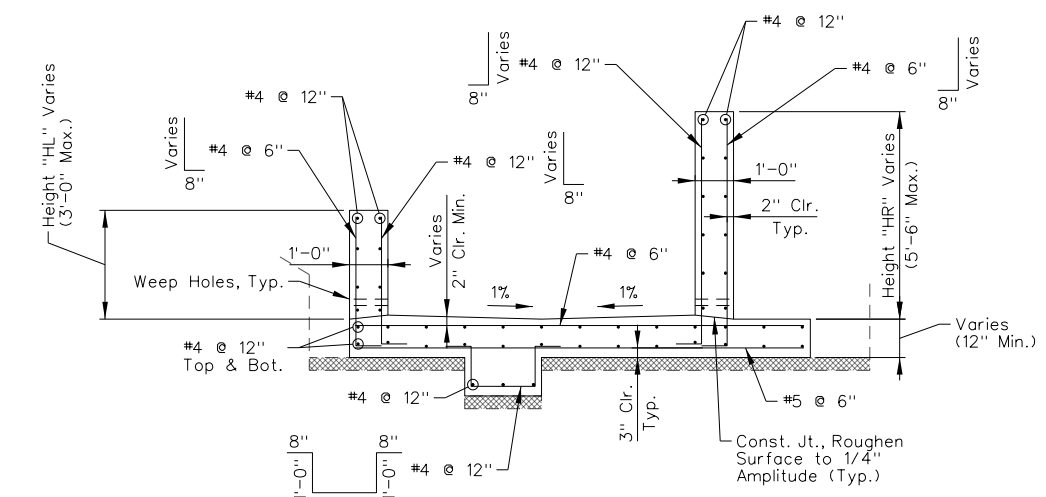
Concrete Channel "B"



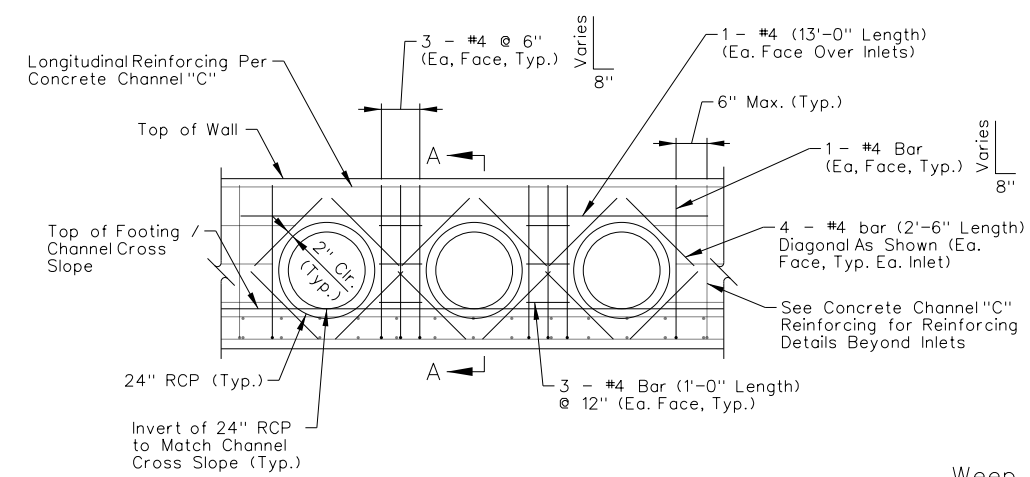
Concrete Channel "C"



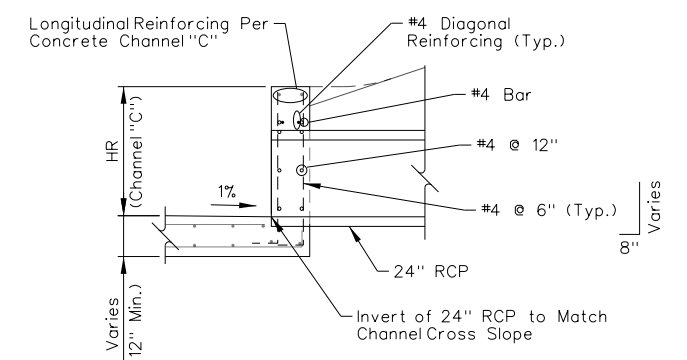
Concrete Channel "D"



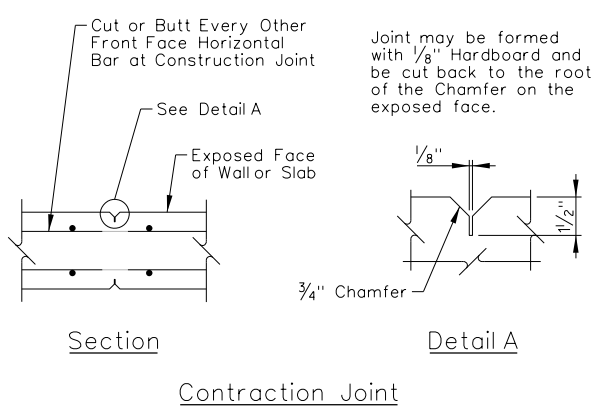
Concrete Channel "E"



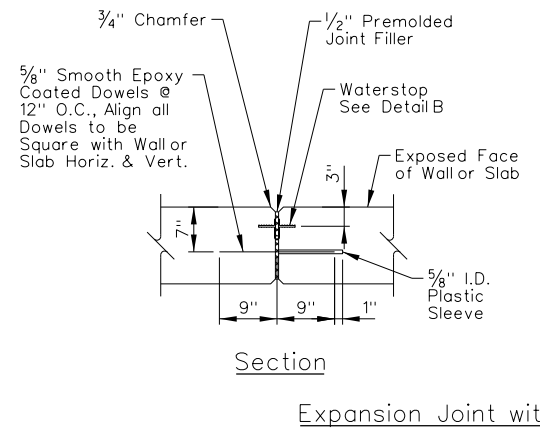
Inlet Elevation



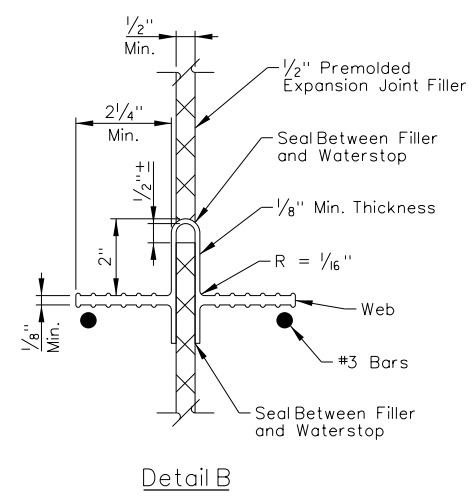
Section A-A



Contraction Joint



Expansion Joint with Waterstop



Weep Hole Detail

Waterstop Notes:

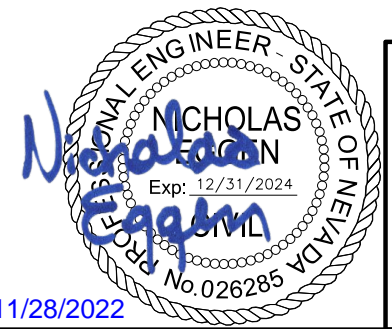
- Holes will be permitted in the outer 1/2" of the web for wire, rings, etc. tie web to #3 reinforcing bars @ 16" maximum intervals to support the waterstop in proper position during concrete placement. Alternative detail may be submitted for approval of the engineer.
- Waterstop to have 5 or more pairs of raised ribs to provide 0.1 square inches minimum rib cross-section area on each half of the waterstop.

Weep Hole Notes:

- 4-inch dia. drains at 25-foot maximum center to center. Exposed drains shall be located 3-inches ± above finish grade.
- 2-cubic feet of type 2 drain backfill encapsulated in a geotextile fabric securely tied. Geotextile shall meet the following:
 - A. Meet at least class 2 strength requirement per AASHTO M288 test method.
 - B. Have an AOS not greater than U.S. sieve No. 40
 - C. Have a permittivity of at least 0.5 Sec.⁻¹
- 6-inch square aluminum or galvanized steel wire mesh hardware cloth, 4 openings per inch and minimum wire diameter 0.03-inches.

Notes:

- All concrete shall be Class DA Modified (Major) with a minimum 28-day compression strength, f'c, of 4500 psi.
- All reinforcing steel shall be A706 Grade 60.
- For dimensions and details not shown see sheet DD5.
- Contraction Joints and Expansion Joints with Waterstops shall be located in the walls and slabs at 24' and 96' maximum intervals as measured along the length of the channel, respectively.
- Construction joints shall be free of laitance and their surfaces roughened to 1/4" amplitude.
- Minimum Lap Length for #4 Bar to #4 Bar = 20"

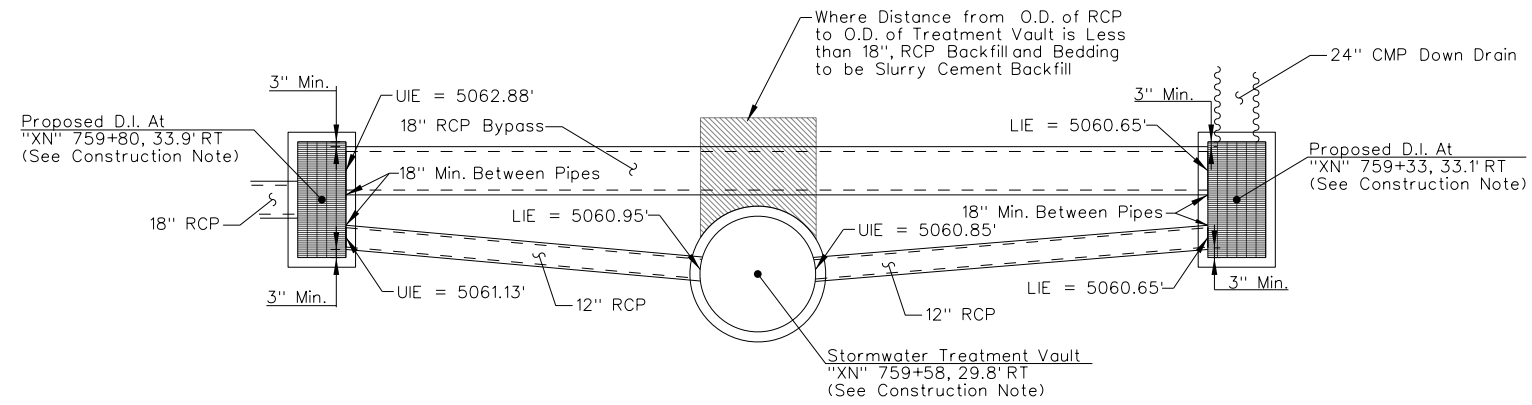


11/28/2022

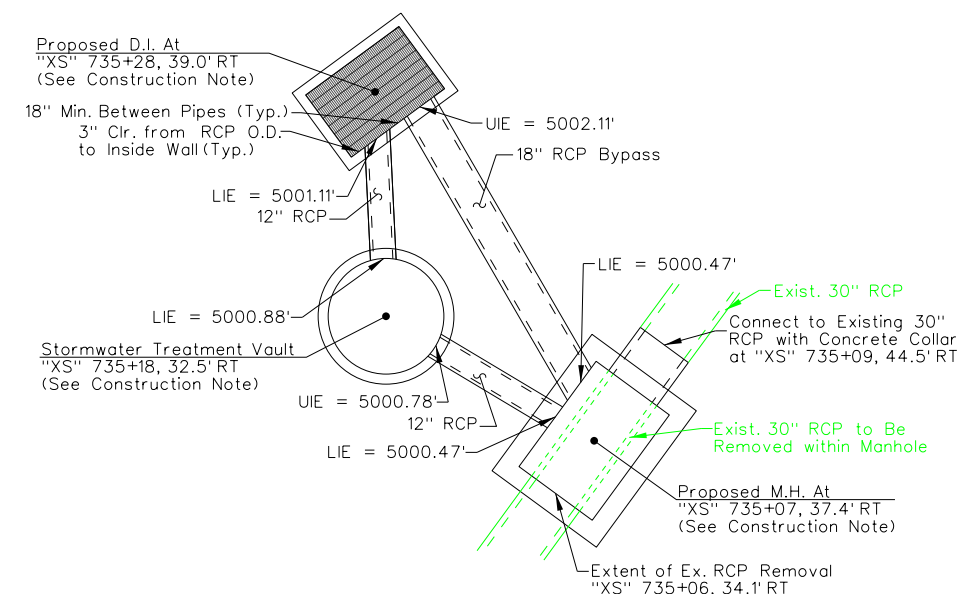
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

DRAINAGE
REINFORCING
DETAILS

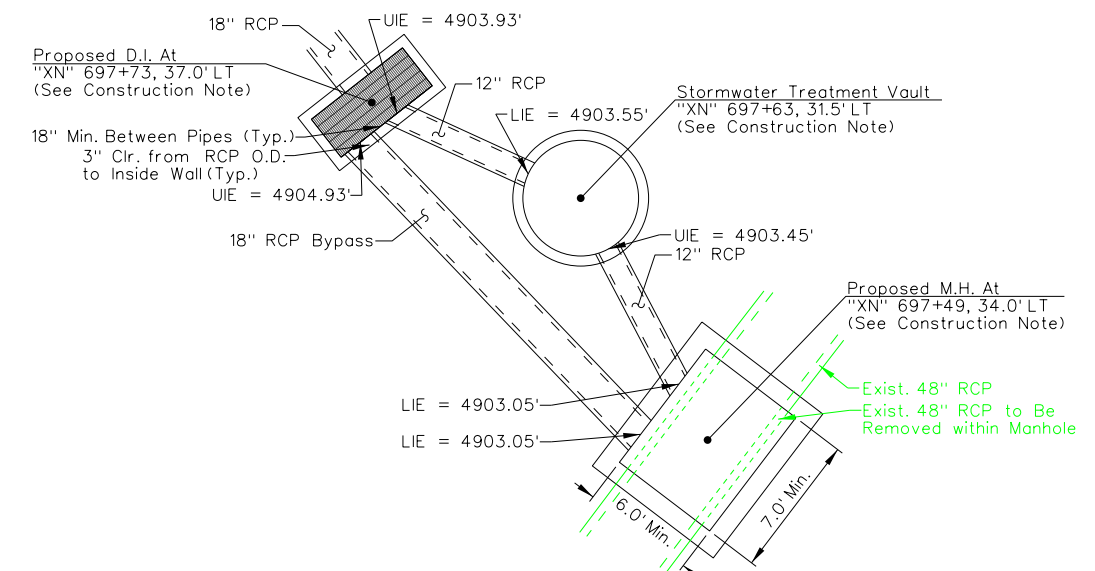
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	DD6



Stormwater Treatment Vault at "XN" 759+58



Stormwater Treatment Vault at "XS" 735+18



Stormwater Treatment Vault at "XN" 697+63

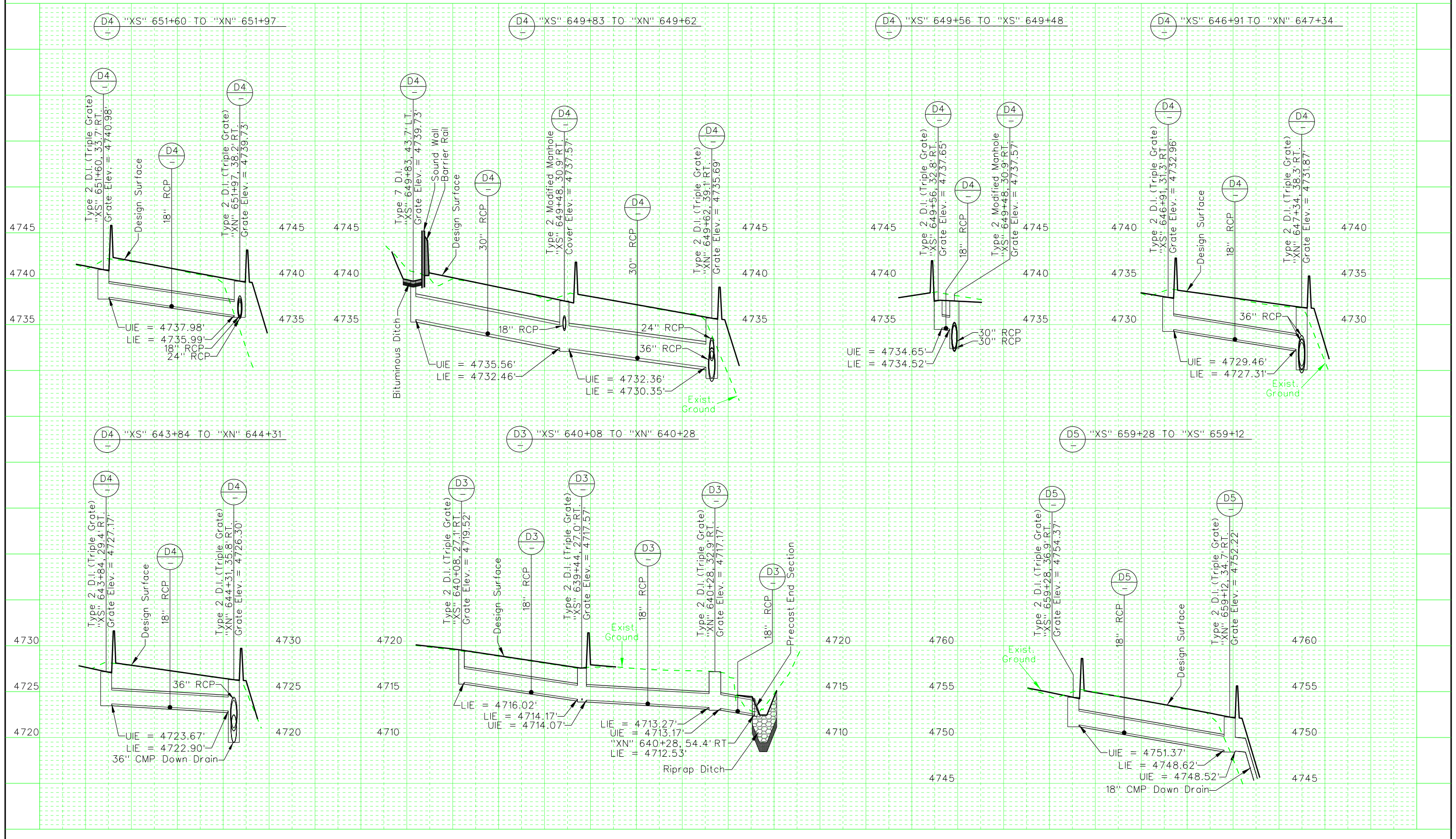
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

DRAINAGE
DETAIL

VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	DP1

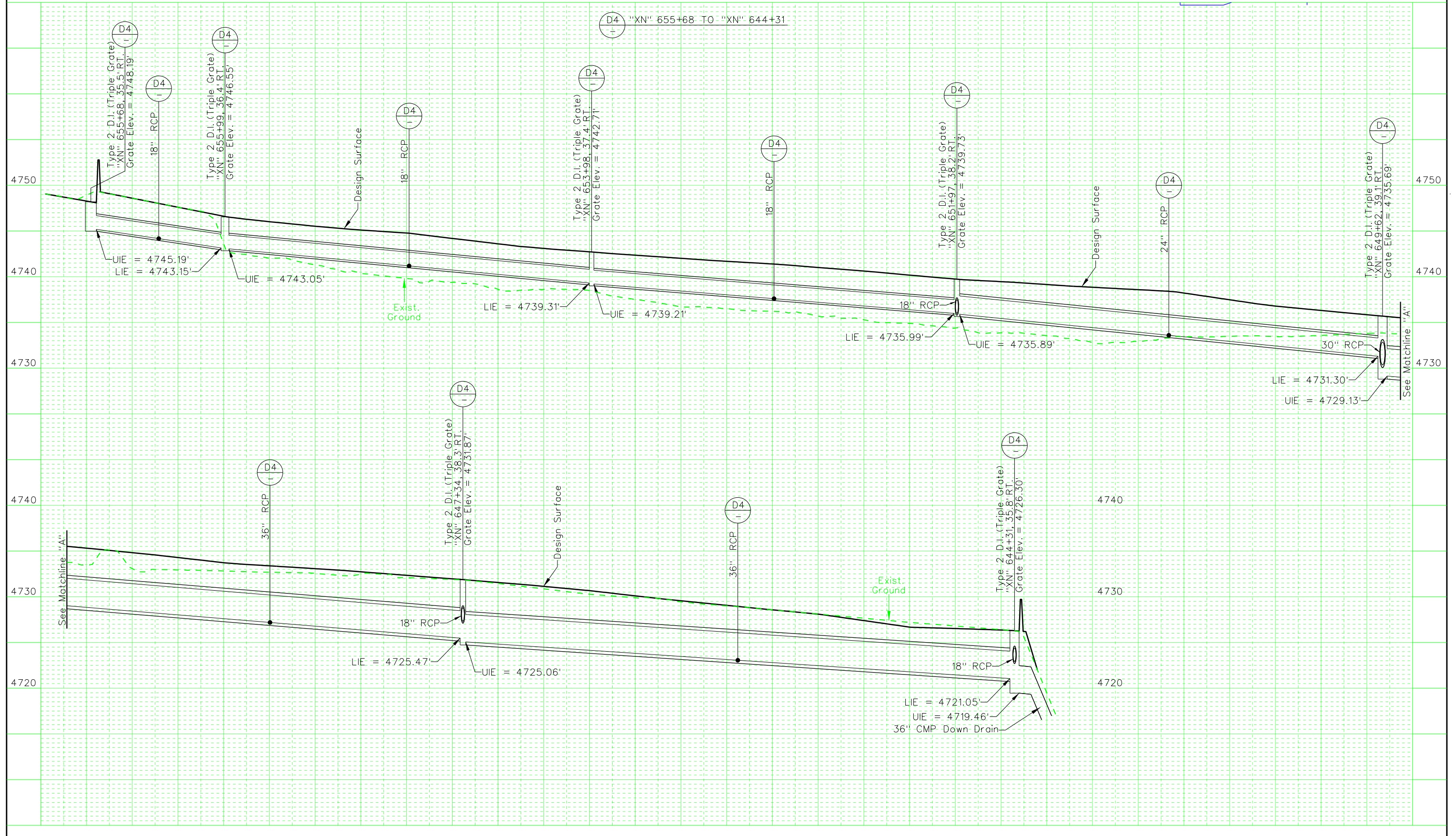
NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION. PROTECT ALL UTILITIES IN PLACE.



VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	DP2

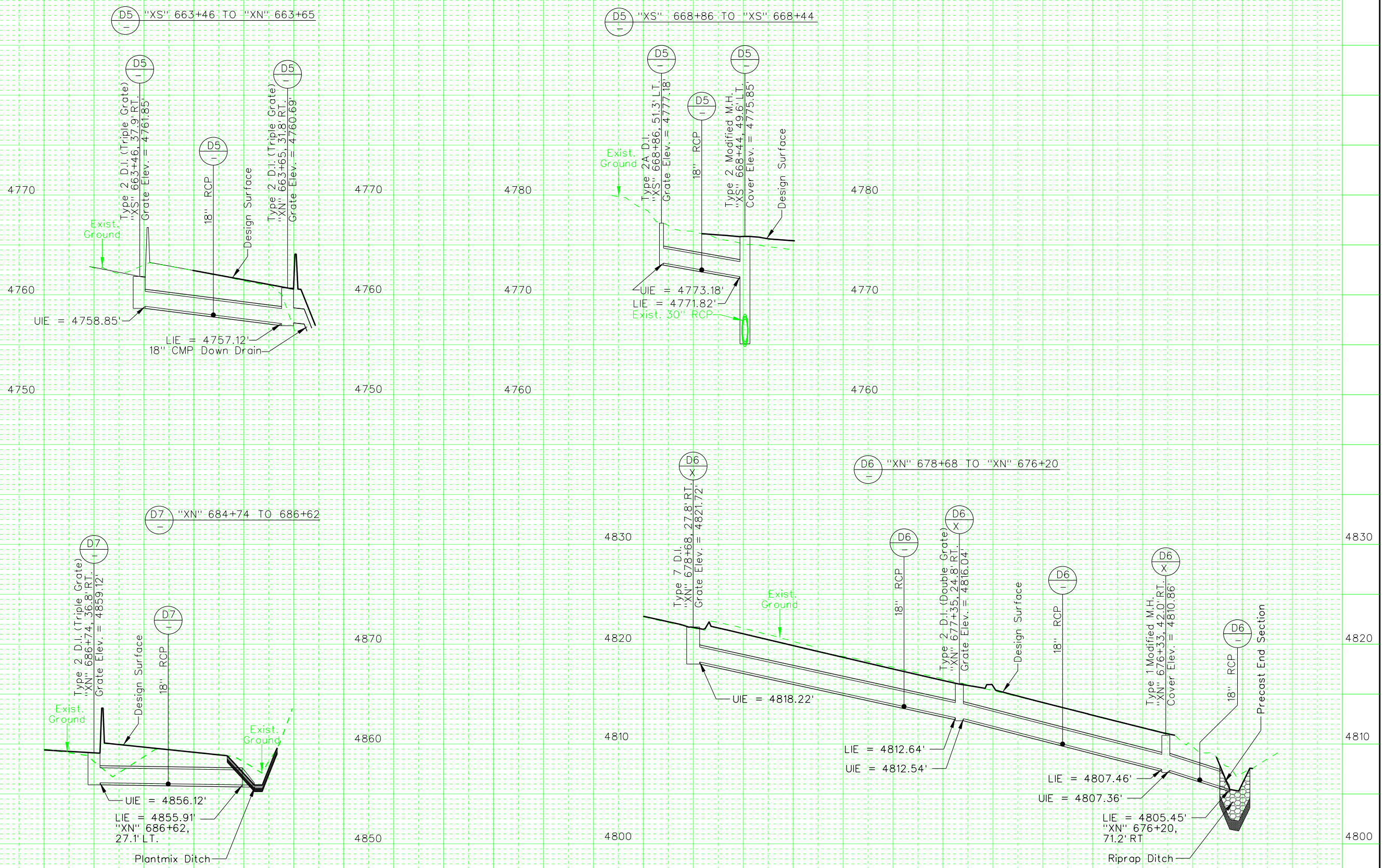
NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION. PROTECT ALL UTILITIES IN PLACE.



VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	DP3

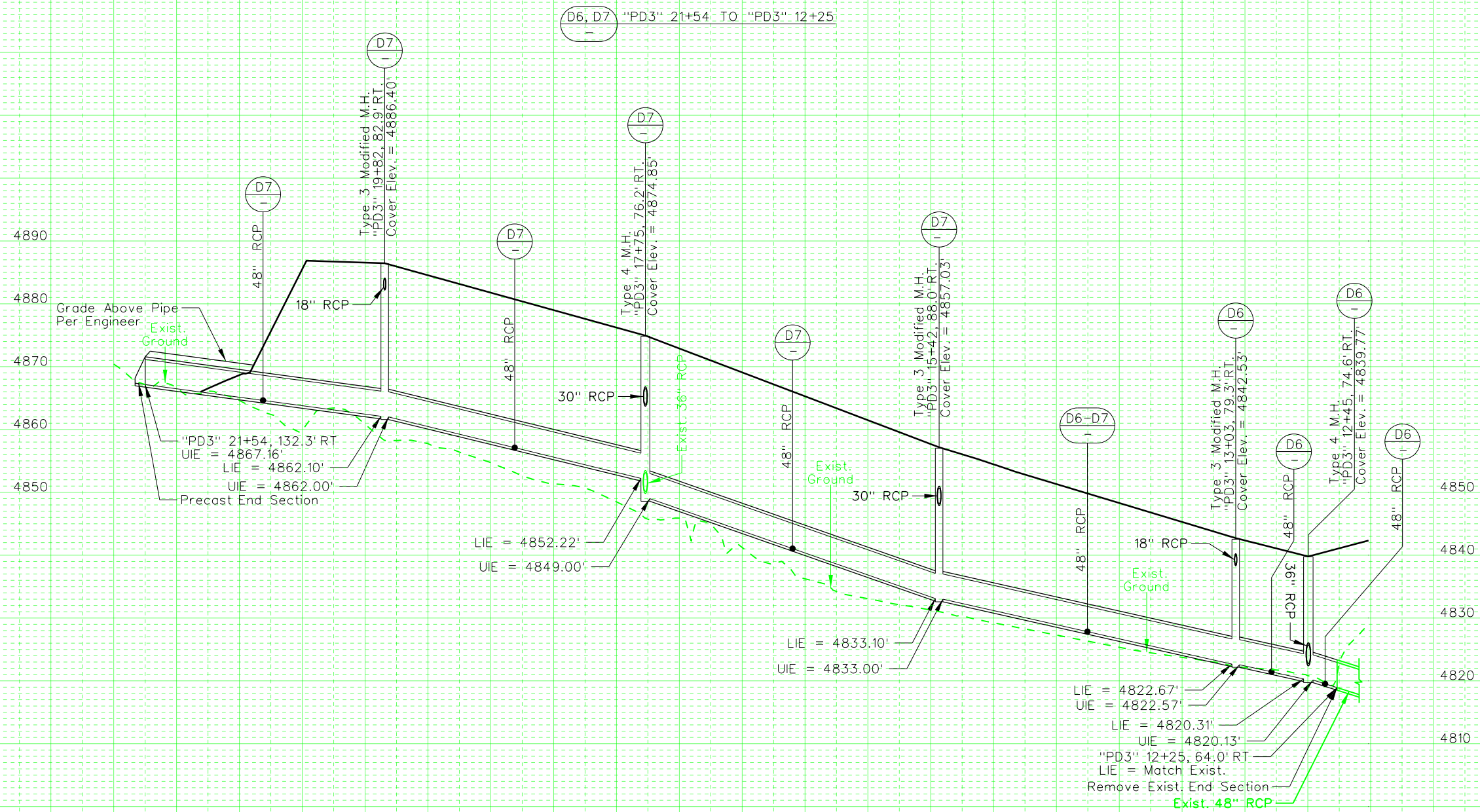
NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION. PROTECT ALL UTILITIES IN PLACE.



VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	DP4

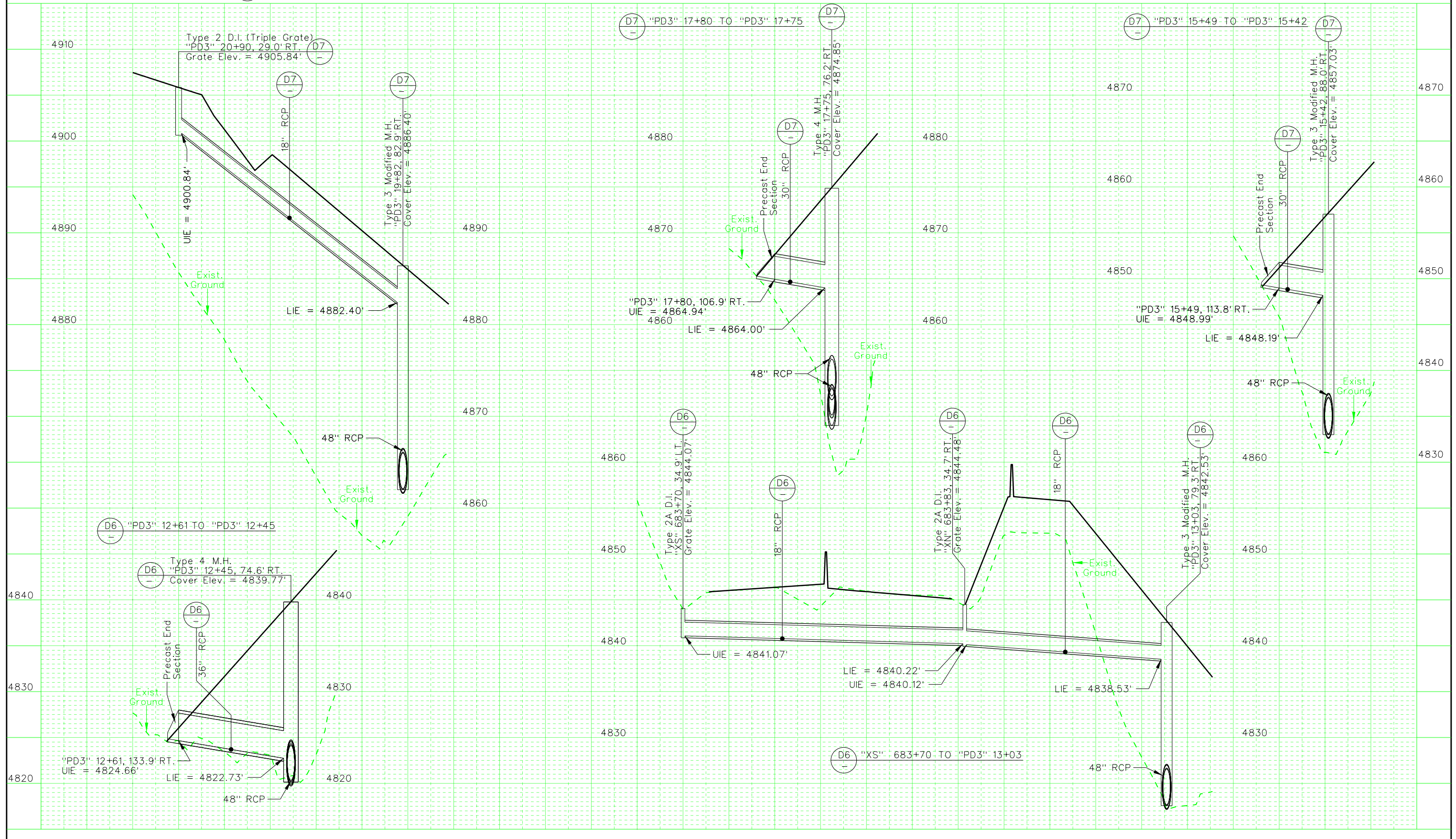
NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION. PROTECT ALL UTILITIES IN PLACE.



VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	DP5

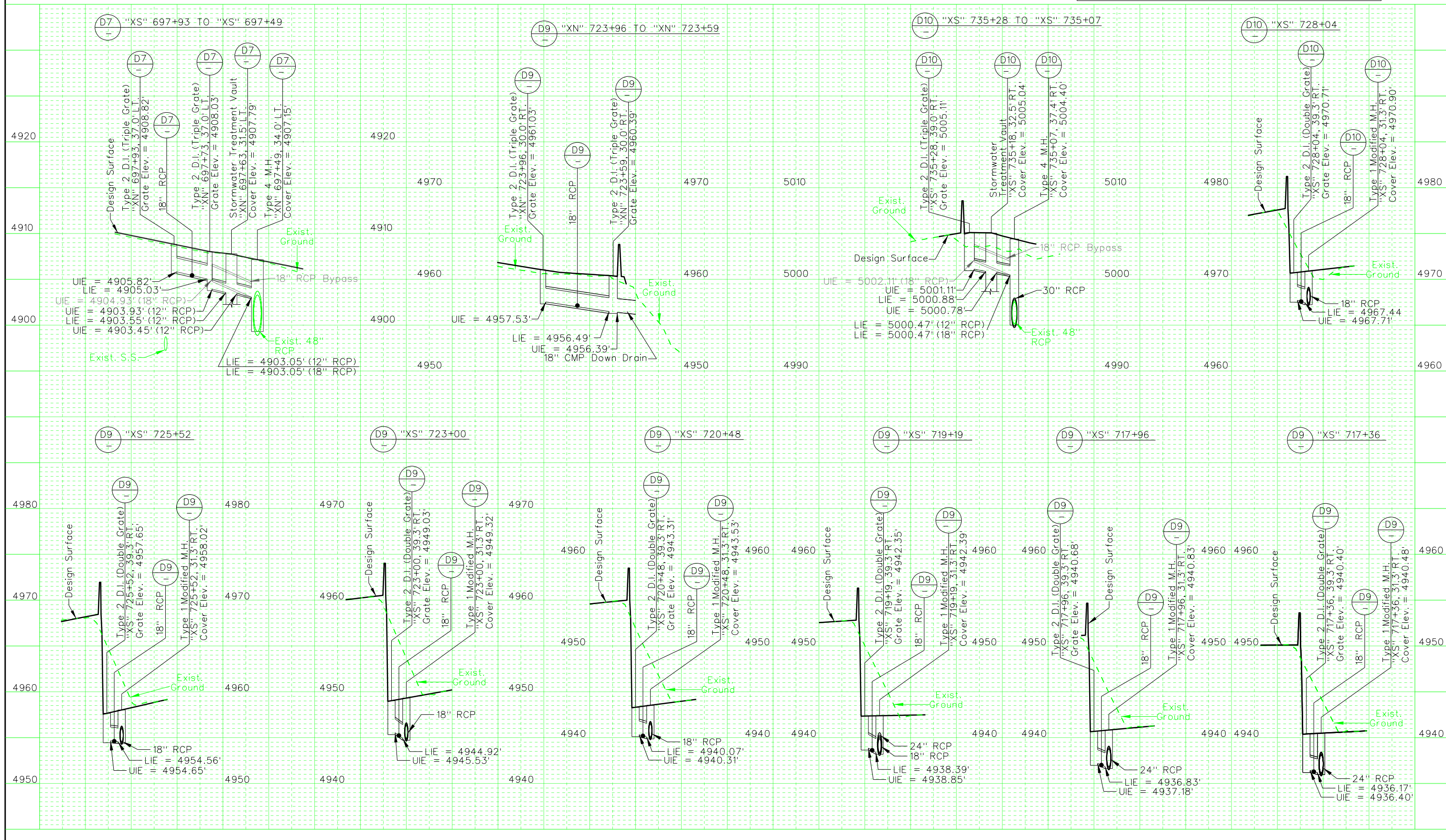
NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION. PROTECT ALL UTILITIES IN PLACE.



VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	DP6

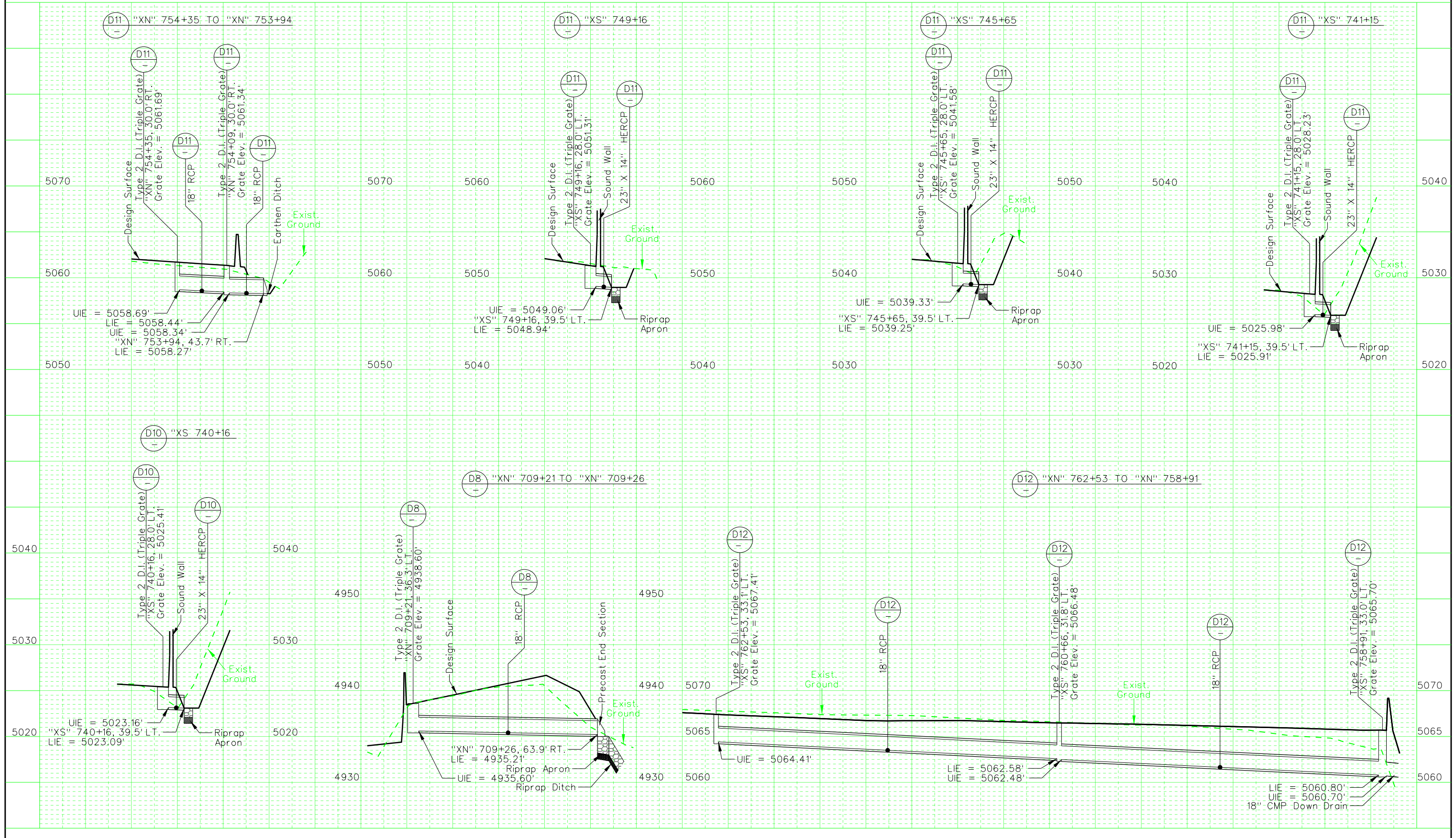
NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION. PROTECT ALL UTILITIES IN PLACE.



VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	DP7

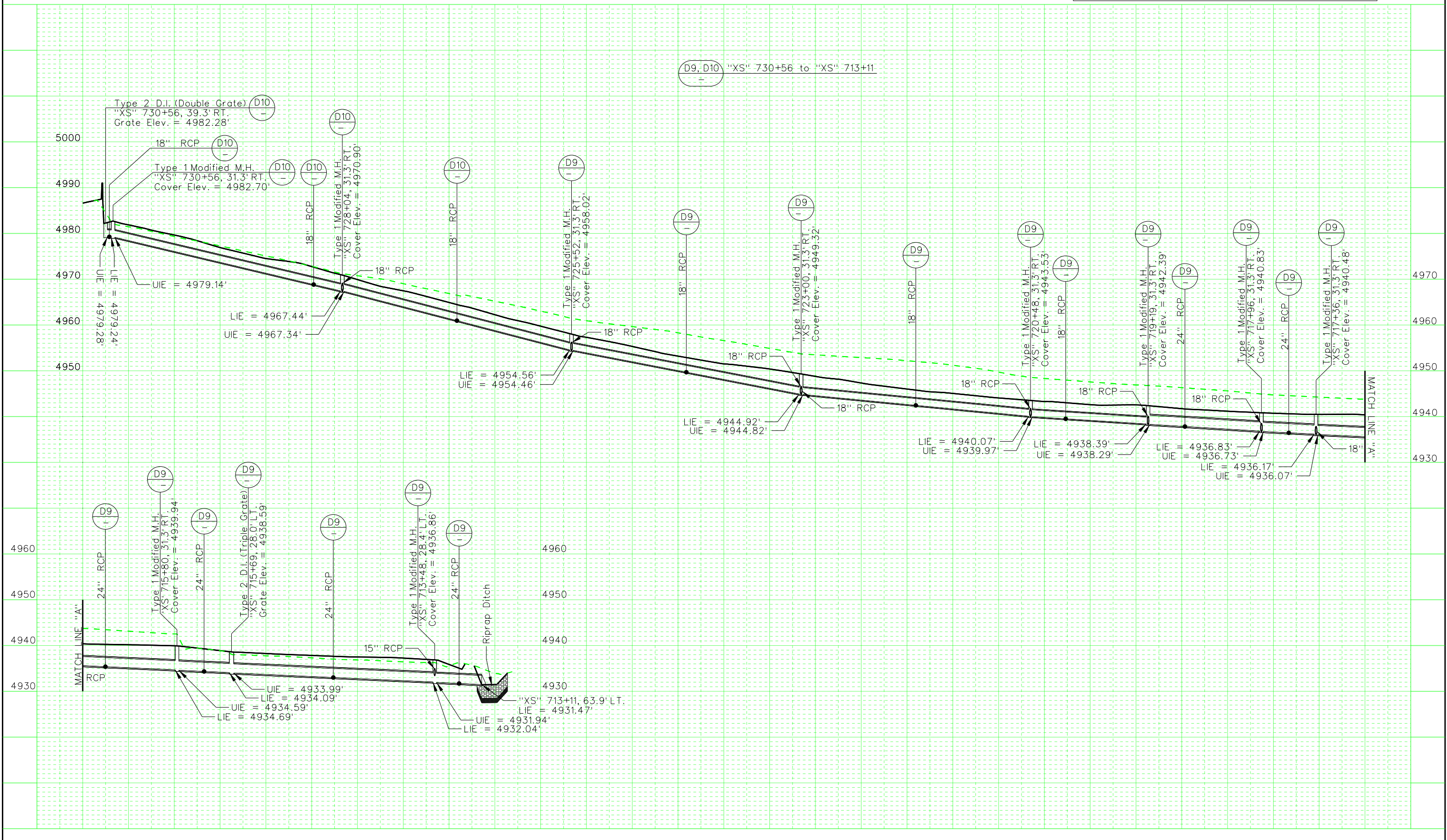
NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION. PROTECT ALL UTILITIES IN PLACE.



VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	DP8

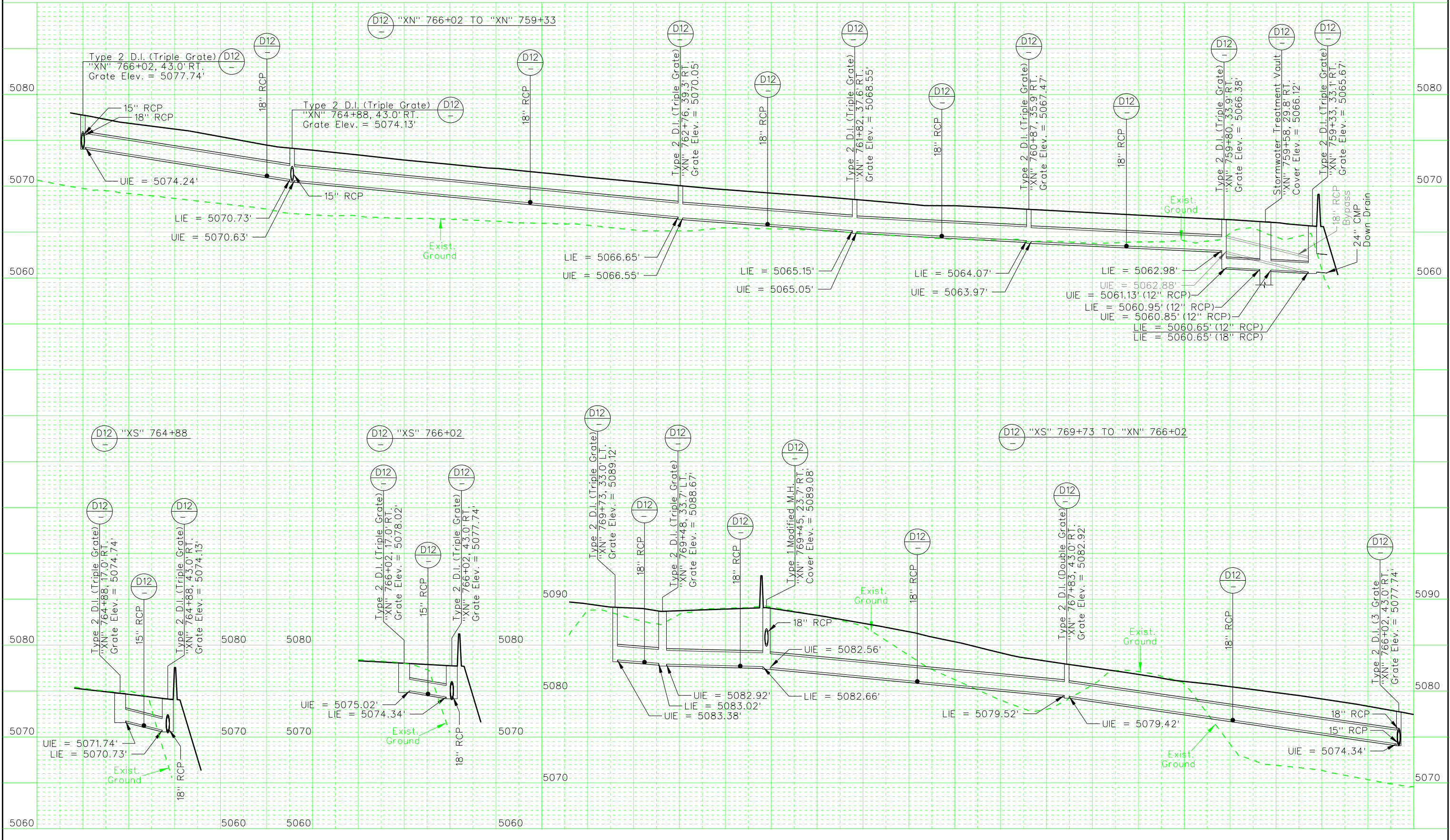
NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION, PROTECT ALL UTILITIES IN PLACE.



VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	DP9

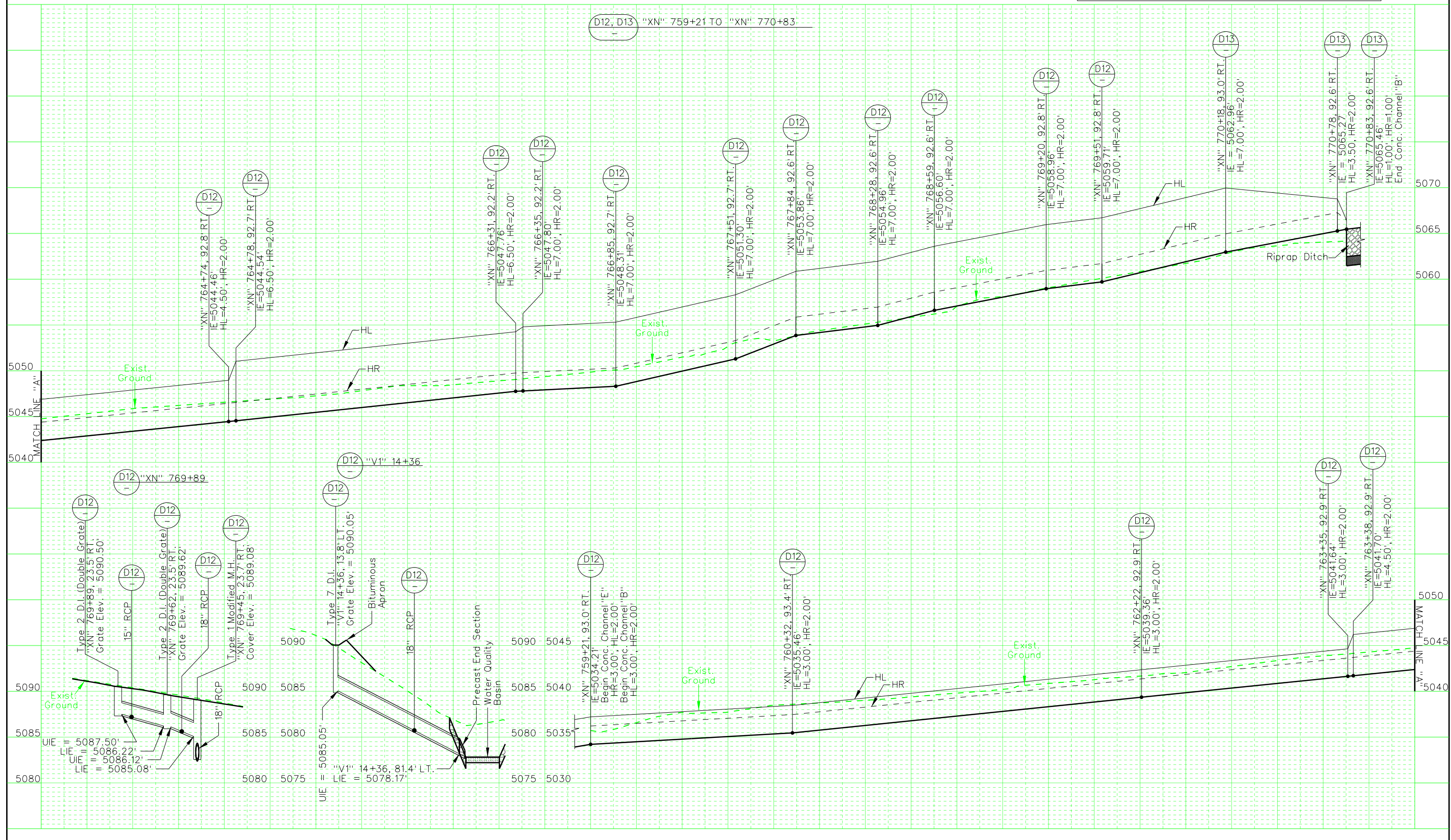
NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION, PROTECT ALL UTILITIES IN PLACE.



VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	DP10

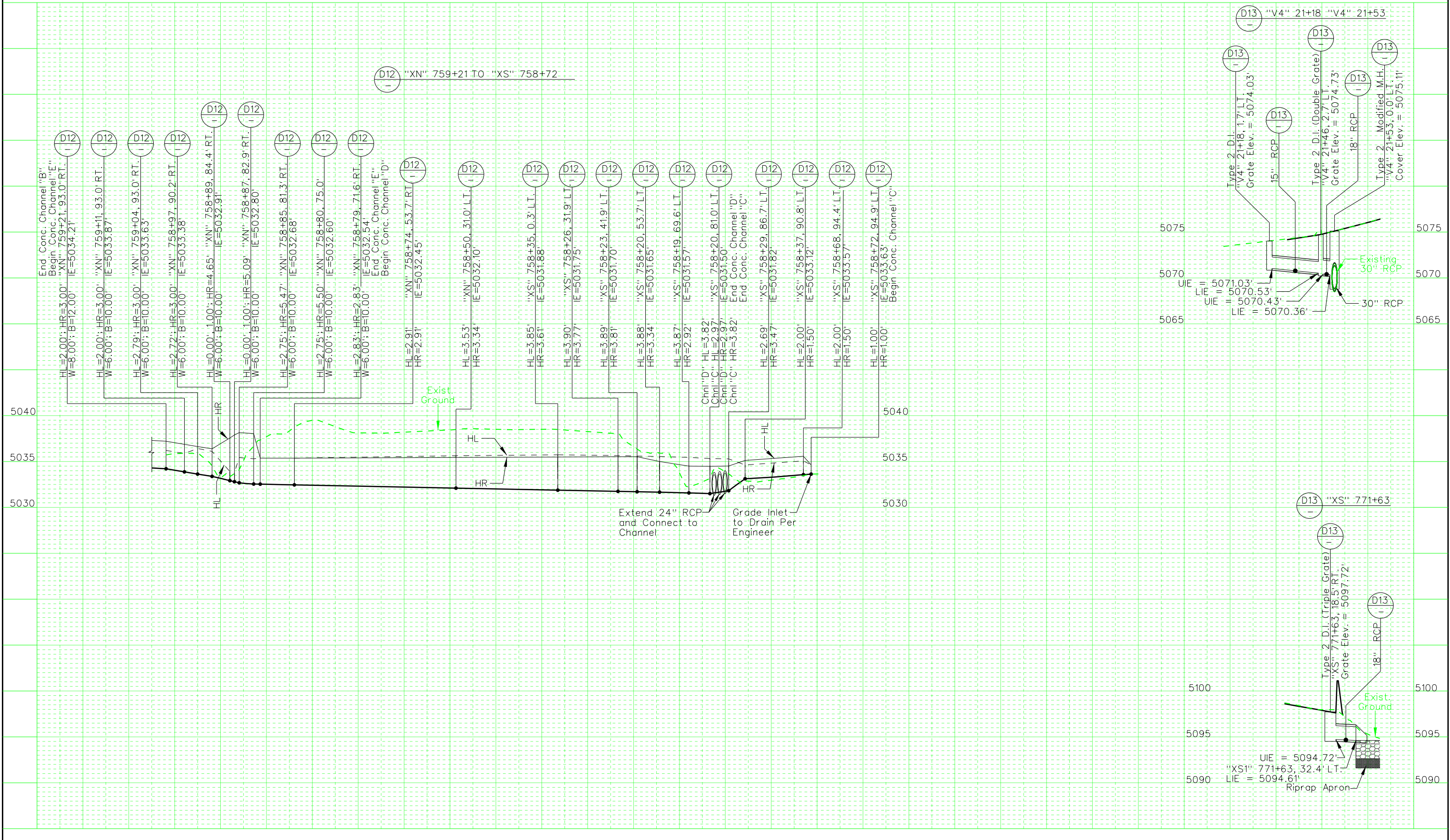
NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION, PROTECT ALL UTILITIES IN PLACE.



VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	DP11

NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION, PROTECT ALL UTILITIES IN PLACE.



D12 "XN" 759+21 TO "XS" 758+72

D13 "V4" 21+18 "V4" 21+53

D13 "XS" 771+63

D13 "XS" 771+63, 18.5' RT.

"XS1" 771+63, 32.4' LT.

Riprap Apron

Extend 24" RCP and Connect to Channel

Grade Inlet to Drain Per Engineer

Existing 30" RCP
 UIE = 5071.03'
 LIE = 5070.53'
 UIE = 5070.43'
 LIE = 5070.36'

Type 2 D.I. (Double Grate)
 "V4" 21+46, 2.7' LT.
 Grate Elev. = 5074.73'

Type 2 D.I. (Triple Grate)
 "XS" 771+63, 18.5' RT.
 Grate Elev. = 5097.72'

Type 2 Modified M.H.
 "V4" 21+53, 0.0' LT.
 Cover Elev. = 5075.11'

15" RCP

18" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

30" RCP

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30" RCP

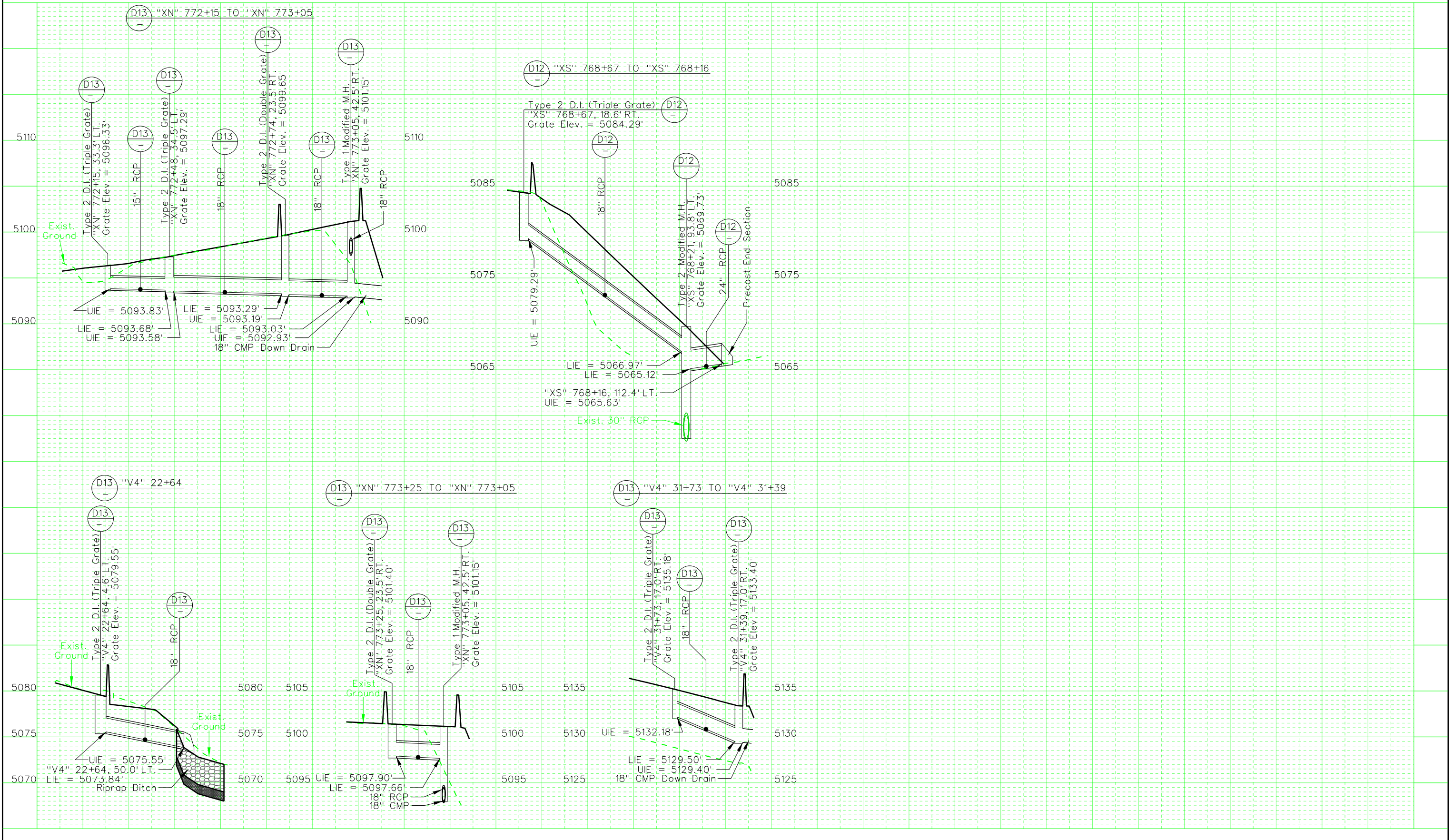
30" RCP

30" RCP

VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	DP12

NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION, PROTECT ALL UTILITIES IN PLACE.

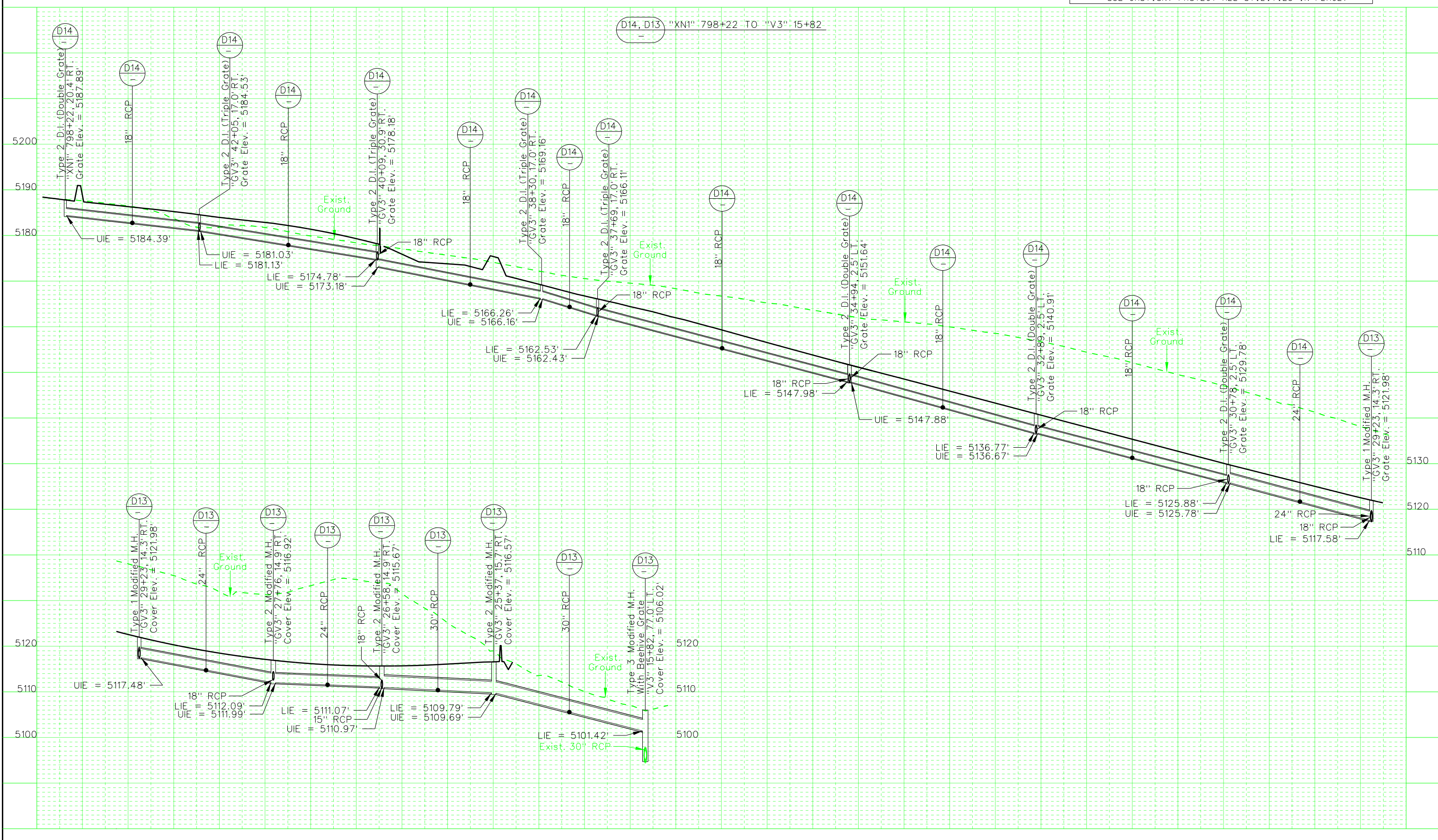


VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	DP13

NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION, PROTECT ALL UTILITIES IN PLACE.

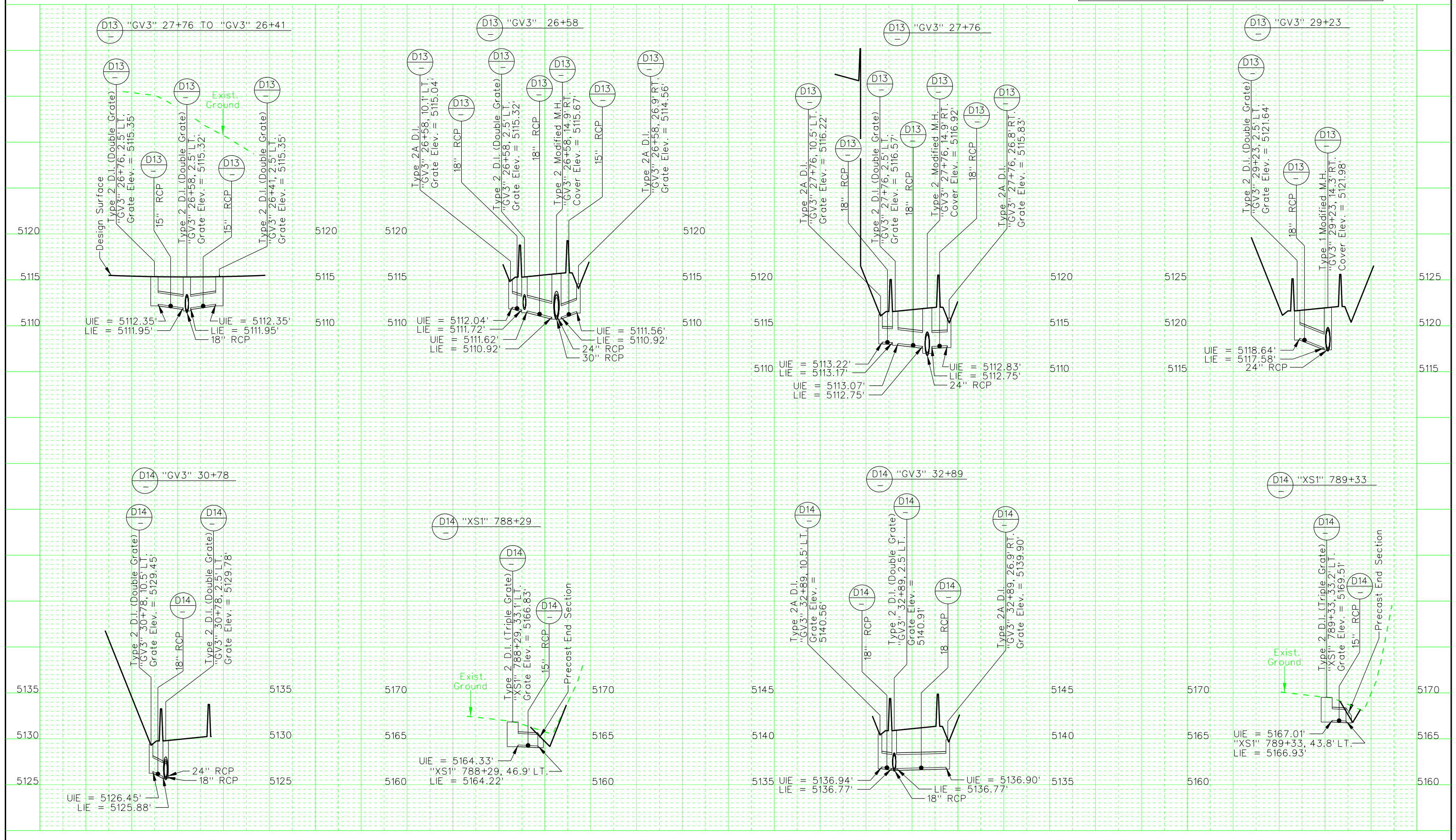
D14, D13 "XN1" 798+22 TO "V3" 15+82



VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	DP14

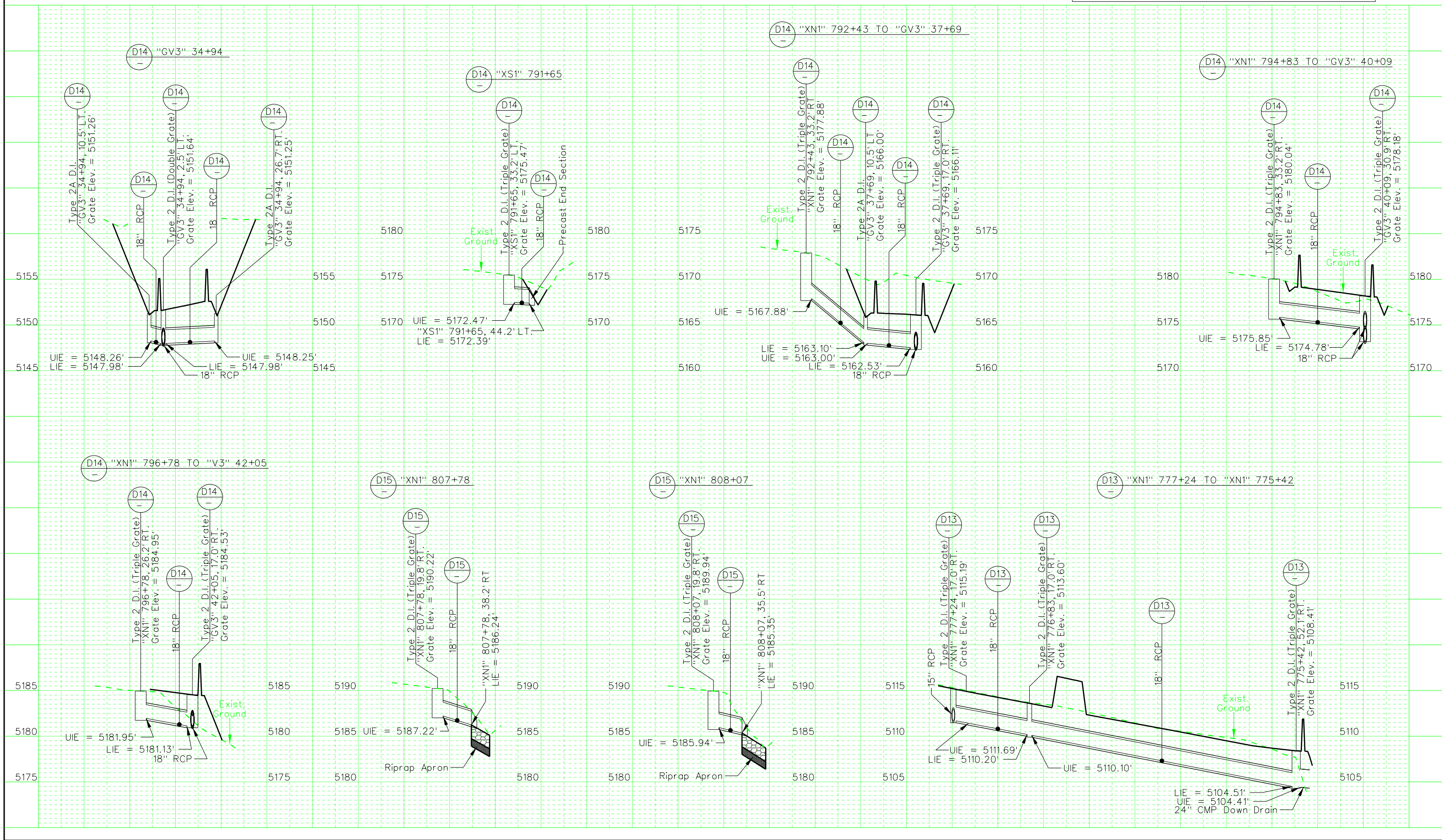
NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION, PROTECT ALL UTILITIES IN PLACE.



VERTICAL TO HORIZONTAL 5:1

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	DP15

NOTE: DEPICTED UTILITY LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. USE CAUTION, PROTECT ALL UTILITIES IN PLACE.



DRAINAGE STRUCTURE LIST

616 1000	610 0585	610 0490	610 0480	610 0470	610 0460	610 0210	610 0200	610 0190	610 0170	610 0050	609 1040	609 1030
TYPE C-NV-4B FENCE	ARTICULATED CONCRETE BLOCK	RIPRAP BEDDING (CLASS 550)	RIPRAP BEDDING (CLASS 400)	RIPRAP BEDDING (CLASS 300)	RIPRAP BEDDING (CLASS 150)	RIPRAP (CLASS 550)	RIPRAP (CLASS 400)	RIPRAP (CLASS 300)	RIPRAP (CLASS 150)	GEOTEXTILE (CLASS 1)	STRUCTURAL STEEL GRATES	CASTINGS
LINFT	SQYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	SQYD	POUND	POUND
				6			136					
					11		253					
				8			184					
											956	
											956	

NOTE NO.	DESCRIPTION	STATION TO STATION
	NOTE: ALL LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER	
	SHEET D1	
1	CONSTRUCT MODIFIED RIPRAP DIKE FROM "XS" 600+37, 79.3' LT (DIKE ELEV. = 4535.00') TO "XS" 600+37, 108.7' LT (DIKE ELEV. = 4534.00') TO "XS" 600+37, 112.7' LT (DIKE ELEV. = 4534.00') TO "XS" 600+38, 156.9' LT (DIKE ELEV. = 4535.00'). (SEE SHEET DD1)	"XS" 600+37
2	CONSTRUCT MODIFIED RIPRAP DIKE FROM "XS" 601+62, 63.7' LT (DIKE ELEV. = 4537.00') TO "XS" 601+63, 148.4' LT (DIKE ELEV. = 4536.00') TO "XS" 601+63, 152.4' LT (DIKE ELEV. = 4536.00') TO "XS" 601+63, 184.7' LT (DIKE ELEV. = 4537.00'). (SEE SHEET DD1)	"XS" 601+62
3	CONSTRUCT MODIFIED RIPRAP DIKE FROM "XS" 602+73, 73.2' LT (DIKE ELEV. = 4538.00') TO "XS" 602+74, 97.0' LT (DIKE ELEV. = 4537.00') TO "XS" 602+75, 101.0' LT (DIKE ELEV. = 4537.00') TO "XS" 602+81, 184.8' LT (DIKE ELEV. = 4538.00'). (SEE SHEET DD1)	"XS" 602+73
	SHEET D2	
1	REMOVE EXISTING DROP INLET, 20.3' RT. ABANDON AND SLURRY FILL 18" RCP TO MANHOLE AT "XS" 625+70, 27.3' LT.	"XS" 625+74
2	REMOVE EXISTING MANHOLE, 27.3' LT AND 6' OF 18" RCP TO BE FLUSH WITH INSIDE WALL OF PROPOSED DROP INLET. VERIFY LENGTH OF RCP REMOVAL PRIOR TO CONSTRUCTION.	"XS" 625+70
3	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 30.1' LT. (GRATE ELEV. = 4653.80', H = 6.84', A = 3.00'). CONNECT TO EXISTING 18" RCP. VERIFY HEIGHT OF DROP INLET PRIOR TO CONSTRUCTION.	"XS" 625+70
4	REMOVE EXISTING DROP INLET, 32.4' LT. CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 30.1' LT. (GRATE ELEV. = 4642.49', H = 3.15', A = 3.00'). CONNECT TO EXISTING 18" RCP. VERIFY HEIGHT OF DROP INLET PRIOR TO CONSTRUCTION.	"XS" 623+35

DRAINAGE STRUCTURE LIST

															TYPE C-NV-4B FENCE	ARTICULATED CONCRETE BLOCK	RIPRAP BEDDING (CLASS 550)	RIPRAP BEDDING (CLASS 400)	RIPRAP BEDDING (CLASS 300)	RIPRAP BEDDING (CLASS 150)	RIPRAP (CLASS 550)	RIPRAP (CLASS 400)	RIPRAP (CLASS 300)	RIPRAP (CLASS 150)	GEOTEXTILE (CLASS 1)	STRUCTURAL STEEL GRATES	CASTINGS	NOTE NO.	DESCRIPTION	STATION TO STATION
															616 1000	610 0585	610 0490	610 0480	610 0470	610 0460	610 0210	610 0200	610 0190	610 0170	610 0050	609 1040	609 1030			
															LINFT	SQYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	SQYD	POUND	POUND			
																	550	3	CONSTRUCT TYPE 3 MODIFIED MANHOLE, 82.9' RT (COVER ELEV. = 4886.40', H = 24.40'). INSTALL 48" X 203' RCP (CLASS V, CLASS A BEDDING) AND CONNECT TO MANHOLE AT "PD3" 17+75, 76.2' RT (UIE = 4862.00', LIE = 4852.22'). (SEE SHEET DP4, DP5)	"PD3" 19+82										
																	550	4	OUTLET OF EXISTING 36" RCP, 76.2' RT. REMOVE EXISTING END SECTION. CONSTRUCT TYPE 4 MANHOLE, 76.2' RT (COVER ELEV. = 4874.85', H = 25.85'). INSTALL 48" X 229' RCP (CLASS V, CLASS A BEDDING) AND CONNECT TO MANHOLE AT "PD3" 15+42, 88.0' RT (UIE = 4849.00', LIE = 4833.10'). CONNECT TO EXISTING RCP. (SEE SHEET DP4, DP5)	"PD3" 17+75										
																	550	5	CONSTRUCT TYPE 3 MODIFIED MANHOLE, 88.0' RT (COVER ELEV. = 4857.03', H = 24.03'). INSTALL 48" X 233' RCP (CLASS V, CLASS A BEDDING) AND CONNECT TO MANHOLE AT "PD3" 13+03, 79.3' RT (UIE = 4833.00', LIE = 4822.67'). (SEE SHEET DP4, DP5)	"PD3" 15+42										
																	956	6	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 36.8' LT. (GRATE ELEV. = 4859.12', H = 3.00', A = 3.00'). INSTALL 18" X 72' RCP (UIE = 4856.12', LIE = 4855.91') TO "XS" 686+62, 27.1' LT. INSTALL SAFETY END SECTION AT OUTLET. (SEE SHEET DP3)	"XN" 686+74										
																		7	REMOVE EXISTING DROP INLET, 40.3' LT AND VERTICAL CMP FROM DROP INLET TO RCP. REMOVE 36" RCP FROM "XS" 688+32, 39.4' RT TO "XN" 688+48, 33.6' LT TO BE FLUSH WITH PROPOSED DROP INLET.	"XN" 688+48										
																	1951	8	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 36.6' LT. (GRATE ELEV. = 4866.36', H = 7.94', A = 5.00'). INSTALL 36" X 5' RCP (UIE = MATCH EXIST., LIE = 4858.42') AND CONNECT TO EXIST. RCP AT "XS" 688+32, 39.4' RT WITH CONCRETE COLLAR. VERIFY DEPTH PRIOR TO CONSTRUCTION. CONNECT DROP INLET TO EXISTING RCP.	"XN" 688+48										
																		9	REMOVE DROP INLET, 36.8' RT AND 2' OF VERTICAL CMP. CONSTRUCT CMP RISER CAP. (SEE SHEET DD1)	"XS" 697+13										
																	550	10	REMOVE EXISTING DROP INLET, 34.0' LT AND VERTICAL CMP FROM DROP INLET TO RCP. REMOVE SLOTTED DRAIN. REMOVE 48" RCP INSIDE OF PROPOSED MANHOLE TO BE FLUSH WITH INSIDE WALLS. CONSTRUCT TYPE 4 MANHOLE, 34.0' LT. (COVER ELEV. = 4907.15', H = 7.85'). CONNECT TO EXISTING RCP. VERIFY DEPTH PRIOR TO CONSTRUCTION. (SEE SHEET DD6, DP6)	"XN" 697+49										

DRAINAGE STRUCTURE LIST

LINE NO.	DESCRIPTION	QUANTITY	UNIT	TOTAL	REMARKS	NOTE NO.	DESCRIPTION	STATION TO STATION
	TYPE C-NV-4B FENCE		LNFT					
	ARTICULATED CONCRETE BLOCK		SQYD					
	RIPRAP BEDDING (CLASS 550)		CUYD					
	RIPRAP BEDDING (CLASS 400)		CUYD					
	RIPRAP BEDDING (CLASS 300)		CUYD					
	RIPRAP BEDDING (CLASS 150)		CUYD					
	RIPRAP (CLASS 550)		CUYD					
	RIPRAP (CLASS 400)		CUYD					
	RIPRAP (CLASS 300)		CUYD					
	RIPRAP (CLASS 150)		CUYD					
	GEOTEXTILE (CLASS 1)		SQYD					
	STRUCTURAL STEEL GRATES		POUND					
	CASTINGS		POUND					
						11	INSTALL STORMWATER TREATMENT VAULT, 31.5' LT TO CENTER. (COVER ELEV. = 4907.79'). INSTALL 12" X 8' RCP (UIE = 4903.45', LIE = 4903.05'). CONNECT TO MANHOLE AT "XN" 697+49, 34.0' LT. (SEE SHEET DD6, DP6)	"XN" 697+63
						12	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 37.0' LT. (GRATE ELEV. = 4908.03', H = 4.10', A = 2.50'). INSTALL 18" X 21' RCP (UIE = 4904.93', LIE = 4903.05') AND CONNECT TO MANHOLE AT "XN" 697+49, 34.0' LT. INSTALL 12" X 8' RCP (UIE = 4903.93', LIE = 4903.55') FROM DROP INLET TO TREATMENT VAULT AT "XN" 697+63, 31.5' LT. (SEE SHEET DD6, DP6)	"XN" 697+73
				842				
						13	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 37.0' LT. (GRATE ELEV. = 4908.82', H = 3.00', A = 3.00'). INSTALL 18" X 17' RCP (UIE = 4905.82', LIE = 4905.03') AND CONNECT TO DROP INLET AT "XN" 697+73, 37.0' LT. (SEE SHEET DP6)	"XN" 697+93
				956				
						14	OUTLET OF EXISTING 18" CMP, 181.6' RT. REMOVE END SECTION. INSTALL 18" CMP DOWN DRAIN TO "PD3" 22+40, 162.5' RT. CONNECT TO EXISTING DOWN DRAIN AT INLET. CONSTRUCT CLASS 400 RIPRAP APRON AT OUTLET (RIPRAP A = 7.0').	"PD3" 23+52
				3				
				8				
						15	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 29.0' RT. (GRATE ELEV. = 4905.84', H = 5.00', A = 3.00'). INSTALL 18" X 118' RCP (UIE = 4900.84', LIE = 4882.40') AND CONNECT TO MANHOLE AT "PD3" 19+82, 82.9' RT. (SEE SHEET DP5)	"PD3" 20+90
				17				
						16	CONSTRUCT BITUMINOUS TRAPEZOIDAL DITCH FROM "XS" 686+88, 36.8' LT (IE = 4858.25', W = 0.0') TO "XS" 686+62, 35.1' LT (IE = 4855.89', W = 4.0') TO "XS" 686+29, 36.8' LT (IE = 4855.62', W = 0.0'). (RSS = 2:1, LSS = VARIES TO EDGE OF PROPOSED PAVEMENT, H = VARIES) WRAP AROUND END SECTION PER ENGINEER. BLEND WITH ROADSIDE DITCH AT INLET AND OUTLET AT NO DIRECT PAYMENT.	"XS" 686+88
						17	INSTALL 30" X 28' RCP FROM "PD3" 17+80, 106.9' RT (UIE = 4864.94', LIE = 4864.00') AND CONNECT TO MANHOLE AT "PD3" 17+75, 76.2' RT. INSTALL PRECAST END SECTION AT INLET. GRADE AROUND INLET TO DRAIN PER ENGINEER. CONSTRUCT EARTHEN DIKE FROM "PD3" 17+50, 45.6' RT (DIKE ELEV. = 4881.00') TO "PD3" 17+60, 152.9' RT (DIKE ELEV. = 4869.00'). (LSS = 3:1, RSS = 4:1, TW = 4.0'). (SEE SHEET DP5)	"PD3" 17+80

DRAINAGE STRUCTURE LIST

ITEM NO.	DESCRIPTION	STATION TO STATION
609 0840	STORMWATER TREATMENT VAULT (TYPE A)	
609 0400	TYPE 4 MANHOLE	
609 0396	TYPE 3 MANHOLE (MODIFIED)	
609 0390	TYPE 2 MANHOLE (MODIFIED)	
609 0380	TYPE 1 MANHOLE (MODIFIED)	
609 0290	CONNECT TO EXISTING MANHOLE	
609 0220	ADJUST MANHOLE	
608 0510	36-INCH METAL END SECTION (DOWNDRAIN)	
608 0490	24-INCH METAL END SECTION (DOWNDRAIN)	
608 0470	18-INCH METAL END SECTION (DOWNDRAIN)	
608 0420	36-INCH DOWNDRAIN PIPE	
608 0400	24-INCH DOWNDRAIN PIPE	
608 0370	18-INCH DOWNDRAIN PIPE	
608 0290	ANCHOR ASSEMBLY (36-INCH)	
608 0270	ANCHOR ASSEMBLY (24-INCH)	
608 0250	ANCHOR ASSEMBLY (18-INCH)	
604 2420	18-INCH METAL END SECTION (SAFETY TYPE)	
603 1120	48-INCH PRECAST END SECTION	
603 1090	36-INCH PRECAST END SECTION	
603 1070	30-INCH PRECAST END SECTION	
603 1050	24-INCH PRECAST END SECTION	
603 1030	18-INCH PRECAST END SECTION	
603 1020	15-INCH PRECAST END SECTION	
603 0670	23-INCH X 14-INCH OVAL REINFORCED CONCRETE PIPE, CLASS HE III	
603 0460	48-INCH REINFORCED CONCRETE PIPE, CLASS V	
603 0350	36-INCH REINFORCED CONCRETE PIPE, CLASS III	
603 0290	30-INCH REINFORCED CONCRETE PIPE, CLASS III	
603 0230	24-INCH REINFORCED CONCRETE PIPE, CLASS III	
603 0170	18-INCH REINFORCED CONCRETE PIPE, CLASS III	
603 0140	15-INCH REINFORCED CONCRETE PIPE, CLASS III	
603 0110	12-INCH REINFORCED CONCRETE PIPE, CLASS III	
600 0100	TRENCH DRAIN	
506 0820	PEDESTRIAN RAIL, TYPE X	
505 0100	REINFORCING STEEL	
502 0881	CLASS DA CONCRETE, MODIFIED (MAJOR) (STRUCTURES)	
502 0750	CLASS AA CONCRETE (MINOR)	
402 0110	PLANTMIX PAVED DITCHES	
402 0100	PLANTMIXING MISCELLANEOUS AREAS	
302 0140	TYPE 1 CLASS B AGGREGATE BASE	
207 0150	SLURRY CEMENT BACKFILL	
207 0110	GRANULAR BACKFILL	
206 0110	STRUCTURE EXCAVATION	
203 0160	DRAINAGE EXCAVATION	
202 1240	REMOVAL OF CORRUGATED METAL PIPE DOWNDRAIN	
202 1231	REMOVAL OF SLOTTED DRAIN	
202 1230	REMOVAL OF STORM DRAIN PIPE	
202 1040	REMOVAL OF DROP INLET	
202 1035	REMOVAL OF MANHOLE	
202 0685	REMOVAL OF FENCE	
202 0450	REMOVE END SECTION	
NOTE NO.	DESCRIPTION	STATION TO STATION
8	REMOVE DROP INLET, 34.6' LT, SLOTTED DRAIN, AND 10' OF VERTICAL CMP. CONSTRUCT CMP RISER CAP. TOP OF CAP MUST BE BELOW ELEVATION 4931.00'. (SEE SHEET DD1)	"XS" 709+09
9	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 36.3' LT. (GRATE ELEV. = 4938.60', H = 3.00', A = 3.00'). INSTALL 18" X 98" RCP (UIE = 4935.60', LIE = 4935.21') TO "XN" 709+26, 63.9' RT. INSTALL PRECAST END SECTION AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET (A = 7.0') AND BLEND WITH DOWNSTREAM CHANNEL PER ENGINEER. (SEE SHEET DP7)	"XN" 709+21
10	CONSTRUCT EARTHEN V-TYPE DITCH FROM "XS" 705+58, 68.8' LT (IE = 4925.00') TO "XS" 704+67, 65.4' LT (IE = 4924.75'). (RSS = 2:1, LSS = VARIES TO EDGE OF PAVEMENT, H = VARIES TO EXIST.)	"XS" 705+58
11	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4933.80', H = 3.30'). INSTALL 15" X 88" RCP (UIE = 4930.50', LIE = 4928.23') TO "XS" 708+30, 58.6' LT. INSTALL PRECAST END SECTION AT OUTLET. CONNECT RETAINING WALL DRAIN PIPE TO MANHOLE. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.	"XS" 708+30
12	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4938.23', H = 3.30'). INSTALL 15" X 56" RCP (UIE = 4934.93', LIE = 4933.57') AND CONNECT TO MANHOLE AT "XS" 713+48, 28.4' LT. CONNECT RETAINING WALL DRAIN PIPE TO MANHOLE. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.	"XS" 713+48
SHEET D9		
1	REMOVE DROP INLET, 24.6' RT AND 2' OF VERTICAL CMP. CONSTRUCT CMP RISER CAP. (SEE SHEET DD1)	"XS" 724+69
2	CONSTRUCT CLASS 400 RIPRAP TRAPEZOIDAL DITCH FROM "XN" 723+74, 87.5' RT (IE = 4946.00') TO "XN" 723+82, 86.6' RT (IE = 4941.73') TO "XN" 724+02, 84.2' RT (IE = 4938.00') TO "XN" 724+28, 85.2' RT (IE = 4935.60'). (RSS = 2:1, LSS = 2:1, W = 4.0', H = VARIES TO EXISTING)	"XN" 723+74

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	DS15A

DRAINAGE STRUCTURE LIST

		TYPE C-NV-4B FENCE	ARTICULATED CONCRETE BLOCK	RIPRAP BEDDING (CLASS 550)	RIPRAP BEDDING (CLASS 400)	RIPRAP BEDDING (CLASS 300)	RIPRAP BEDDING (CLASS 150)	RIPRAP (CLASS 550)	RIPRAP (CLASS 400)	RIPRAP (CLASS 300)	RIPRAP (CLASS 150)	GEOTEXTILE (CLASS 1)	STRUCTURAL STEEL GRATES	CASTINGS	NOTE NO.	DESCRIPTION	STATION TO STATION	
LINFT	SQYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	SQYD	POUND	POUND				
																8	REMOVE DROP INLET, 34.6' LT, SLOTTED DRAIN, AND 10' OF VERTICAL CMP. CONSTRUCT CMP RISER CAP. TOP OF CAP MUST BE BELOW ELEVATION 4931.00'. (SEE SHEET DD1)	"XS" 709+09
															956	9	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 36.3' LT. (GRATE ELEV. = 4938.60', H = 3.00', A = 3.00'). INSTALL 18" X 98" RCP (UIE = 4935.60', LIE = 4935.21') TO "XN" 709+26, 63.9' RT. INSTALL PRECAST END SECTION AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET (A = 7.0') AND BLEND WITH DOWNSTREAM CHANNEL PER ENGINEER. (SEE SHEET DP7)	"XN" 709+21
						3				8						10	CONSTRUCT EARTHEN V-TYPE DITCH FROM "XS" 705+58, 68.8' LT (IE = 4925.00') TO "XS" 704+67, 65.4' LT (IE = 4924.75'). (RSS = 2:1, LSS = VARIES TO EDGE OF PAVEMENT, H = VARIES TO EXIST.)	"XS" 705+58
														550	11	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4933.80', H = 3.30'). INSTALL 15" X 88" RCP (UIE = 4930.50', LIE = 4928.23') TO "XS" 708+30, 58.6' LT. INSTALL PRECAST END SECTION AT OUTLET. CONNECT RETAINING WALL DRAIN PIPE TO MANHOLE. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.	"XS" 708+30	
														550	12	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4938.23', H = 3.30'). INSTALL 15" X 56" RCP (UIE = 4934.93', LIE = 4933.57') AND CONNECT TO MANHOLE AT "XS" 713+48, 28.4' LT. CONNECT RETAINING WALL DRAIN PIPE TO MANHOLE. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.	"XS" 713+48	
															SHEET D9			
															1	REMOVE DROP INLET, 24.6' RT AND 2' OF VERTICAL CMP. CONSTRUCT CMP RISER CAP. (SEE SHEET DD1)	"XS" 724+69	
						19			66				144		2	CONSTRUCT CLASS 400 RIPRAP TRAPEZOIDAL DITCH FROM "XN" 723+74, 87.5' RT (IE = 4946.00') TO "XN" 723+82, 86.6' RT (IE = 4941.73') TO "XN" 724+02, 84.2' RT (IE = 4938.00') TO "XN" 724+28, 85.2' RT (IE = 4935.60'). (RSS = 2:1, LSS = 2:1, W = 4.0', H = VARIES TO EXISTING)	"XN" 723+74	

DRAINAGE STRUCTURE LIST

TYPE C-NV-4B FENCE	ARTICULATED CONCRETE BLOCK	RIPRAP BEDDING (CLASS 550)	RIPRAP BEDDING (CLASS 400)	RIPRAP BEDDING (CLASS 300)	RIPRAP BEDDING (CLASS 150)	RIPRAP (CLASS 550)	RIPRAP (CLASS 400)	RIPRAP (CLASS 300)	RIPRAP (CLASS 150)	GEOTEXTILE (CLASS 1)	STRUCTURAL STEEL GRATES	CASTINGS	NOTE NO.	DESCRIPTION	STATION TO STATION
616 1000	610 0585	610 0490	610 0480	610 0470	610 0460	610 0210	610 0200	610 0190	610 0170	610 0050	609 1040	609 1030			
LINFT	SQYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	SQYD	POUND	POUND			
											956		3	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 30.0' RT. (GRATE ELEV. = 4960.39', H = 4.00', A = 3.00'). INSTALL 18" CMP DOWN DRAIN TO "XN" 723+59, 43.0' RT (IE = 4956.19') TO "XN" 723+59, 62.3' RT (IE = 4950.16') TO "XN" 723+77, 87.2' RT (IE = 4941.83') TO "XN" 723+82, 86.6' RT (IE = 4941.73'). (SEE SHEET DP6)	"XN" 723+59
											956		4	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 30.0' RT. (GRATE ELEV. = 4961.03', H = 3.50', A = 3.00'). INSTALL 18" X 35' RCP (UIE = 4957.53', LIE = 4956.49') AND CONNECT TO DROP INLET AT "XN" 723+59, 30.0' RT. (SEE SHEET DP6)	"XN" 723+96
												550	5	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 28.4' LT. (COVER ELEV. 4936.86', H = 4.92'). INSTALL 24" X 50' RCP (UIE = 4931.94', LIE = 4931.47') TO "XS" 713+11, 63.9' LT. INSTALL PRECAST END SECTION AT OUTLET. WRAP RIPRAP OF DOWNSTREAM CHANNEL AROUND END SECTION PER ENGINEER AT NO DIRECT PAYMENT. (SEE SHEET DP8)	"XS" 713+48
											1068		6	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 28.0' LT. (GRATE ELEV. = 4938.59', H = 4.60', A = 3.50'). INSTALL 24" X 218' RCP (UIE = 4933.99', LIE = 4932.04') AND CONNECT TO MANHOLE AT "XS" 713+48, 28.4' LT. (SEE SHEET DP8)	"XS" 715+69
												550	7	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4939.94', H = 5.35'). INSTALL 24" X 56' RCP (UIE = 4934.59', LIE = 4934.09') AND CONNECT TO DROP INLET AT "XS" 715+69, 28.0' LT. CONNECT RETAINING WALL DRAIN PIPE TO MANHOLE. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.(SEE SHEET DP8)	"XS" 715+80
												550	8	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4940.48', H = 4.41'). INSTALL 24" X 154' RCP (UIE = 4936.07', LIE = 4934.69') AND CONNECT TO MANHOLE AT "XS" 715+80, 31.3' RT. (SEE SHEET DP6, DP8)	"XS" 717+36
											574		9	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4940.40', H = 4.00', A = 2.50'). INSTALL 18" X 5' RCP (UIE = 4936.40', LIE = 4936.17') AND CONNECT TO MANHOLE AT "XS" 717+36, 31.3' RT. (SEE SHEET DP6)	"XS" 717+36
												550	10	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4940.83', H = 4.10'). INSTALL 24" X 57' RCP (UIE = 4936.73', LIE = 4936.17') AND CONNECT TO MANHOLE AT "XS" 717+36, 31.3' RT. (SEE SHEET DP6, DP8)	"XS" 717+96

DRAINAGE STRUCTURE LIST

															TYPE C-NV-4B FENCE	ARTICULATED CONCRETE BLOCK	RIPRAP BEDDING (CLASS 550)	RIPRAP BEDDING (CLASS 400)	RIPRAP BEDDING (CLASS 300)	RIPRAP BEDDING (CLASS 150)	RIPRAP (CLASS 550)	RIPRAP (CLASS 400)	RIPRAP (CLASS 300)	RIPRAP (CLASS 150)	GEOTEXTILE (CLASS 1)	STRUCTURAL STEEL GRATES	CASTINGS	NOTE NO.	DESCRIPTION	STATION TO STATION	
															616 1000	610 0585	610 0490	610 0480	610 0470	610 0460	610 0210	610 0200	610 0190	610 0170	610 0050	609 1040	609 1030				
															LINFT	SQYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	SQYD	POUND	POUND				
																												574	11	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4940.68', H = 3.50', A = 2.50'). INSTALL 18" X 5' RCP (UIE = 4937.18', LIE = 4936.83') AND CONNECT TO MANHOLE AT "XS" 717+96, 31.3' RT. (SEE SHEET DP6)	"XS" 717+96
																												550	12	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4942.39', H = 4.10'). INSTALL 24" X 121' RCP (UIE = 4938.29', LIE = 4936.83') AND CONNECT TO MANHOLE AT "XS" 717+96, 31.3' RT. (SEE SHEET DP6, DP8)	"XS" 719+19
																												574	13	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4942.35', H = 3.50', A = 2.50'). INSTALL 18" X 5' RCP (UIE = 4938.85', LIE = 4938.39') AND CONNECT TO MANHOLE AT "XS" 719+19, 31.3' RT. (SEE SHEET DP6)	"XS" 719+19
																												550	14	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4943.53', H = 3.56'). INSTALL 18" X 125' RCP (UIE = 4939.97', LIE = 4938.39') AND CONNECT TO MANHOLE AT "XS" 719+19, 31.3' RT. (SEE SHEET DP6, DP8)	"XS" 720+48
																												574	15	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4943.31', H = 3.00', A = 2.50'). INSTALL 18" X 5' RCP (UIE = 4940.31', LIE = 4940.07') AND CONNECT TO MANHOLE AT "XS" 720+48, 31.3' RT. (SEE SHEET DP6)	"XS" 720+48
																												550	16	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4949.32', H = 4.50'). INSTALL 18" X 247' RCP (UIE = 4944.82', LIE = 4940.07') AND CONNECT TO MANHOLE AT "XS" 720+48, 31.3' RT. (SEE SHEET DP6, DP8)	"XS" 723+00
																												574	17	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4949.03', H = 3.50', A = 2.50'). INSTALL 18" X 5' RCP (UIE = 4945.53', LIE = 4944.92') AND CONNECT TO MANHOLE AT "XS" 723+00, 31.3' RT. (SEE SHEET DP6)	"XS" 723+00
																												550	18	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4958.02', H = 3.56'). INSTALL 18" X 248' RCP (UIE = 4954.46', LIE = 4944.92') AND CONNECT TO MANHOLE AT "XS" 723+00, 31.3' RT. (SEE SHEET DP6, DP8)	"XS" 725+52
																												574	19	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4957.65', H = 3.00', A = 2.50'). INSTALL 18" X 5' RCP (UIE = 4954.65', LIE = 4954.56') AND CONNECT TO MANHOLE AT "XS" 725+52, 31.3' RT. (SEE SHEET DP6)	"XS" 725+52

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	DS18

DRAINAGE STRUCTURE LIST

609 0840	STORMWATER TREATMENT VAULT (TYPE A)	EACH		NOTE NO.	DESCRIPTION	STATION TO STATION
609 0400	TYPE 4 MANHOLE	EACH				
609 0396	TYPE 3 MANHOLE (MODIFIED)	EACH				
609 0390	TYPE 2 MANHOLE (MODIFIED)	EACH				
609 0380	TYPE 1 MANHOLE (MODIFIED)	EACH				
609 0290	CONNECT TO EXISTING MANHOLE	EACH				
609 0220	ADJUST MANHOLE	EACH				
608 0510	36-INCH METAL END SECTION (DOWNDRAIN)	EACH				
608 0490	24-INCH METAL END SECTION (DOWNDRAIN)	EACH				
608 0470	18-INCH METAL END SECTION (DOWNDRAIN)	EACH				
608 0420	36-INCH DOWNDRAIN PIPE	EACH				
608 0400	24-INCH DOWNDRAIN PIPE	LINFT				
608 0370	18-INCH DOWNDRAIN PIPE	LINFT				
608 0290	ANCHOR ASSEMBLY (36-INCH)	LINFT				
608 0270	ANCHOR ASSEMBLY (24-INCH)	EACH				
608 0250	ANCHOR ASSEMBLY (18-INCH)	EACH				
604 2420	18-INCH METAL END SECTION (SAFETY TYPE)	EACH				
603 1120	48-INCH PRECAST END SECTION	EACH				
603 1090	36-INCH PRECAST END SECTION	EACH				
603 1070	30-INCH PRECAST END SECTION	EACH				
603 1050	24-INCH PRECAST END SECTION	EACH				
603 1030	18-INCH PRECAST END SECTION	EACH				
603 1020	15-INCH PRECAST END SECTION	EACH				
603 0670	23-INCH X 14-INCH OVAL REINFORCED CONCRETE PIPE, CLASS HE III	LINFT				
603 0460	48-INCH REINFORCED CONCRETE PIPE, CLASS V	LINFT				
603 0350	36-INCH REINFORCED CONCRETE PIPE, CLASS III	LINFT				
603 0290	30-INCH REINFORCED CONCRETE PIPE, CLASS III	LINFT				
603 0230	24-INCH REINFORCED CONCRETE PIPE, CLASS III	LINFT				
603 0170	18-INCH REINFORCED CONCRETE PIPE, CLASS III	LINFT				
603 0140	15-INCH REINFORCED CONCRETE PIPE, CLASS III	LINFT				
603 0110	12-INCH REINFORCED CONCRETE PIPE, CLASS III	LINFT				
600 0100	TRENCH DRAIN	LINFT				
506 0820	PEDESTRIAN RAIL, TYPE X	LINFT				
505 0100	REINFORCING STEEL	POUND				
502 0881	CLASS DA CONCRETE, MODIFIED (MAJOR) (STRUCTURES)	CUYD				
502 0750	CLASS AA CONCRETE (MINOR)	CUYD				
402 0110	PLANTMIX PAVED DITCHES	SQYD				
402 0100	PLANTMIXING MISCELLANEOUS AREAS	SQYD				
302 0140	TYPE 1 CLASS B AGGREGATE BASE	CUYD		67		
207 0150	SLURRY CEMENT BACKFILL	CUYD				
207 0110	GRANULAR BACKFILL	CUYD				
206 0110	STRUCTURE EXCAVATION	CUYD				
203 0160	DRAINAGE EXCAVATION	CUYD				
202 1240	REMOVAL OF CORRUGATED METAL PIPE DOWNDRAIN	LINFT				
202 1231	REMOVAL OF SLOTTED DRAIN	LINFT				
202 1230	REMOVAL OF STORM DRAIN PIPE	LINFT				
202 1040	REMOVAL OF DROP INLET	EACH				
202 1035	REMOVAL OF MANHOLE	EACH				
202 0585	REMOVAL OF FENCE	LINFT				
202 0450	REMOVE END SECTION	EACH				
20	CONSTRUCT RIPRAP TOE-OF-FILL-SLOPE PROTECTION FROM "XS" 725+88, 77.9' LT TO "XS" 724+91, 85.1' LT. (SEE SHEET DD1)					"XS" 725+88
21	CONSTRUCT RIPRAP TOE-OF-FILL-SLOPE PROTECTION FROM "XS" 724+09, 40.9' RT TO "XS" 733+60, 40.8' RT. (SEE SHEET DD1)					"XS" 724+09
SHEET D10						
1	CONSTRUCT ACCESS ROAD FROM "XS" 732+68, 35.0' LT (ELEV. = 4996.03') TO "XS" 733+16, 35.0' LT (ELEV. = 4998.00') TO "XS" 733+61, 35.0' LT (ELEV. = 5000.25') TO XS 733+84, 35.0' LT (ELEV. = 5001.50') TO "XS" 734+18, 35.0' LT (ELEV. = 5003.50') TO "XS" 735+07, 35.0' LT (ELEV. = 5007.75') TO "XS" 735+70, 35.0' LT (ELEV. = 5010.25') TO "XS" 736+07, 41.3' LT (ELEV. = 5010.06'). BLEND WITH ADJACENT ACCESS ROAD PER ENGINEER. (W = 15.5') (SEE SHEET DD2)			67		"XS" 732+68
2	CONSTRUCT RIPRAP TOE-OF-FILL-SLOPE PROTECTION FROM "XS" 736+97, 45.8' LT TO "XS" 736+28, 43.4' LT. (SEE SHEET DD1)					"XS" 736+97
3	CONSTRUCT TYPE 4 MANHOLE, 37.4' RT. (COVER ELEV. = 5004.40', H = 9.40'). CONNECT TO EXISTING RCP. INSTALL 30" X 4' RCP AND CONNECT TO EXISTING 30" RCP AT XS 735+09, 44.5' RT WITH CONCRETE COLLAR. VERIFY MANHOLE DEPTH PRIOR TO CONSTRUCTION. (SEE SHEET DD6, DP6)					"XS" 735+07
4	REMOVE EXISTING DROP INLET, 41.3' RT AND VERTICAL CMP FROM DROP INLET TO RCP. REMOVE 30" RCP FROM "XS" 735+06, 34.1' RT TO "XS" 735+09, 44.5' RT.					"XS" 735+08
5	INSTALL STORMWATER TREATMENT VAULT, 32.5' RT TO CENTER. (COVER ELEV. = 4905.04'). INSTALL 12" X 8' RCP (UIE = 5000.78', LIE = 5000.47'). CONNECT TO MANHOLE AT "XS" 735+07, 37.4' RT. (SEE SHEET DD6, DP6)			8		"XS" 735+18
6	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 39.0' RT. (GRATE ELEV. = 5005.11', H = 4.00', A = 4.00'). INSTALL 18" X 17' RCP (UIE = 5002.11', LIE = 5000.47') AND CONNECT TO MANHOLE AT "XS" 735+07, 37.4' RT. INSTALL 12" X 7' RCP (UIE = 5001.11', LIE = 5000.88') FROM DROP INLET TO TREATMENT VAULT AT "XS" 735+18, 32.5' RT. (SEE SHEET DD6, DP6)			17		"XS" 735+28
7	CONSTRUCT EARTHEN DIKE FROM "XN" 734+96, 35.7' RT (DIKE ELEV. = 5002.20') TO "XN" 734+96, 56.8' RT (DIKE ELEV. = 5002.20'). (TW = 2.0', SS = 10:1, H = VARIES)					"XN" 734+96

DRAINAGE STRUCTURE LIST

TYPE C-NV-4B FENCE	ARTICULATED CONCRETE BLOCK	RIPRAP BEDDING (CLASS 550)	RIPRAP BEDDING (CLASS 400)	RIPRAP BEDDING (CLASS 300)	RIPRAP BEDDING (CLASS 150)	RIPRAP (CLASS 550)	RIPRAP (CLASS 400)	RIPRAP (CLASS 300)	RIPRAP (CLASS 150)	GEOTEXTILE (CLASS 1)	STRUCTURAL STEEL GRATES	CASTINGS	NOTE NO.	DESCRIPTION	STATION TO STATION						
616 1000	610 0585	610 0490	610 0480	610 0470	610 0460	610 0210	610 0200	610 0190	610 0170	610 0050	609 1040	609 1030									
LINFT	SQYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	SQYD	POUND	POUND									
														23	80	20	CONSTRUCT RIPRAP TOE-OF-FILL-SLOPE PROTECTION FROM "XS" 725+88, 77.9' LT TO "XS" 724+91, 85.1' LT. (SEE SHEET DD1)	"XS" 725+88			
														214	756	21	CONSTRUCT RIPRAP TOE-OF-FILL-SLOPE PROTECTION FROM "XS" 724+09, 40.9' RT TO "XS" 733+60, 40.8' RT. (SEE SHEET DD1)	"XS" 724+09			
SHEET D10																					
																1	CONSTRUCT ACCESS ROAD FROM "XS" 732+68, 35.0' LT (ELEV. = 4996.03) TO "XS" 733+16, 35.0' LT (ELEV. = 4998.00) TO "XS" 733+61, 35.0' LT (ELEV. = 5000.25) TO XS 733+84, 35.0' LT (ELEV. = 5001.50) TO "XS" 734+18, 35.0' LT (ELEV. = 5003.50) TO "XS" 735+07, 35.0' LT (ELEV. = 5007.75) TO "XS" 735+70, 35.0' LT (ELEV. = 5010.25) TO "XS" 736+07, 41.3' LT (ELEV. = 5010.06). BLEND WITH ADJACENT ACCESS ROAD PER ENGINEER. (W = 15.5) (SEE SHEET DD2)	"XS" 732+68			
																28	87	2	CONSTRUCT RIPRAP TOE-OF-FILL-SLOPE PROTECTION FROM "XS" 736+97, 45.8' LT TO "XS" 736+28, 43.4' LT. (SEE SHEET DD1)	"XS" 736+97	
																	550	3	CONSTRUCT TYPE 4 MANHOLE, 37.4' RT. (COVER ELEV. = 5004.40', H = 9.40'). CONNECT TO EXISTING RCP. INSTALL 30" X 4' RCP AND CONNECT TO EXISTING 30" RCP AT XS 735+09, 44.5' RT WITH CONCRETE COLLAR. VERIFY MANHOLE DEPTH PRIOR TO CONSTRUCTION. (SEE SHEET DD6, DP6)	"XS" 735+07	
																		4	REMOVE EXISTING DROP INLET, 41.3' RT AND VERTICAL CMP FROM DROP INLET TO RCP. REMOVE 30" RCP FROM "XS" 735+06, 34.1' RT TO "XS" 735+09, 44.5' RT.	"XS" 735+08	
																		5	INSTALL STORMWATER TREATMENT VAULT, 32.5' RT TO CENTER. (COVER ELEV. = 4905.04). INSTALL 12" X 8' RCP (UIE = 5000.78', LIE = 5000.47'). CONNECT TO MANHOLE AT "XS" 735+07, 37.4' RT. (SEE SHEET DD6, DP6)	"XS" 735+18	
																		1435	6	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 39.0' RT. (GRATE ELEV. = 5005.11', H = 4.00', A = 4.00'). INSTALL 18" X 17' RCP (UIE = 5002.11', LIE = 5000.47') AND CONNECT TO MANHOLE AT "XS" 735+07, 37.4' RT. INSTALL 12" X 7' RCP (UIE = 5001.11', LIE = 5000.88') FROM DROP INLET TO TREATMENT VAULT AT "XS" 735+18, 32.5' RT. (SEE SHEET DD6, DP6)	"XS" 735+28
																			7	CONSTRUCT EARTHEN DIKE FROM "XN" 734+96, 35.7' RT (DIKE ELEV. = 5002.20') TO "XN" 734+96, 56.8' RT (DIKE ELEV. = 5002.20'). (TW = 2.0', SS = 10:1, H = VARIES)	"XN" 734+96

DRAINAGE STRUCTURE LIST

609 0840	STORMWATER TREATMENT VAULT (TYPE A)
609 0400	TYPE 4 MANHOLE
609 0396	TYPE 3 MANHOLE (MODIFIED)
609 0390	TYPE 2 MANHOLE (MODIFIED)
609 0380	TYPE 1 MANHOLE (MODIFIED)
609 0290	CONNECT TO EXISTING MANHOLE
609 0220	ADJUST MANHOLE
608 0510	36-INCH METAL END SECTION (DOWNDRAIN)
608 0490	24-INCH METAL END SECTION (DOWNDRAIN)
608 0470	18-INCH METAL END SECTION (DOWNDRAIN)
608 0420	36-INCH DOWNDRAIN PIPE
608 0400	24-INCH DOWNDRAIN PIPE
608 0370	18-INCH DOWNDRAIN PIPE
608 0290	ANCHOR ASSEMBLY (36-INCH)
608 0270	ANCHOR ASSEMBLY (24-INCH)
608 0250	ANCHOR ASSEMBLY (18-INCH)
604 2420	18-INCH METAL END SECTION (SAFETY TYPE)
603 1120	48-INCH PRECAST END SECTION
603 1090	36-INCH PRECAST END SECTION
603 1070	30-INCH PRECAST END SECTION
603 1050	24-INCH PRECAST END SECTION
603 1030	18-INCH PRECAST END SECTION
603 1020	15-INCH PRECAST END SECTION
603 0670	23-INCH X 14-INCH OVAL REINFORCED CONCRETE PIPE, CLASS HE III
603 0460	48-INCH REINFORCED CONCRETE PIPE, CLASS V
603 0350	36-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0290	30-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0230	24-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0170	18-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0140	15-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0110	12-INCH REINFORCED CONCRETE PIPE, CLASS III
600 0100	TRENCH DRAIN
506 0820	PEDESTRIAN RAIL, TYPE X
505 0100	REINFORCING STEEL
502 0881	CLASS DA CONCRETE, MODIFIED (MAJOR) (STRUCTURES)
502 0750	CLASS AA CONCRETE (MINOR)
402 0110	PLANTMIX PAVED DITCHES
402 0100	PLANTMIXING MISCELLANEOUS AREAS
302 0140	TYPE 1 CLASS B AGGREGATE BASE
207 0150	SLURRY CEMENT BACKFILL
207 0110	GRANULAR BACKFILL
206 0110	STRUCTURE EXCAVATION
203 0160	DRAINAGE EXCAVATION
202 1240	REMOVAL OF CORRUGATED METAL PIPE DOWNDRAIN
202 1231	REMOVAL OF SLOTTED DRAIN
202 1230	REMOVAL OF STORM DRAIN PIPE
202 1040	REMOVAL OF DROP INLET
202 1035	REMOVAL OF MANHOLE
202 0585	REMOVAL OF FENCE
202 0450	REMOVE END SECTION

NOTE NO.	DESCRIPTION	STATION TO STATION
8	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4970.90', H = 3.56'). INSTALL 18" X 24' RCP (UIE = 4967.34', LIE = 4954.56') AND CONNECT TO MANHOLE AT "XS" 725+52, 31.3' RT. (SEE SHEET DP6, DP8)	"XS" 728+04
9	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4970.71', H = 3.00', A = 3.00'). INSTALL 18" X 5' RCP (UIE = 4967.71', LIE = 4967.44') AND CONNECT TO MANHOLE AT "XS" 728+04, 31.3' RT. (SEE SHEET DP6)	"XS" 728+04
10	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 31.3' RT. (COVER ELEV. = 4982.70', H = 3.56'). INSTALL 18" X 24' RCP (UIE = 4979.14', LIE = 4967.44') AND CONNECT TO MANHOLE AT "XS" 728+04, 31.3' RT. (SEE SHEET DP8)	"XS" 730+56
11	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 39.3' RT. (GRATE ELEV. = 4982.28', H = 3.00', A = 4.00'). INSTALL 18" X 5' RCP (UIE = 4979.28', LIE = 4979.24') AND CONNECT TO MANHOLE AT "XS" 730+56, 31.3' RT. (SEE SHEET DP8)	"XS" 730+56
12	CONSTRUCT CLASS 150 RIPRAP BEDDING DITCH "A" FROM XS 732+23, 57.0' LT TO "XS" 728+80, 41.0' LT. LOCATION AND ELEVATION OF CHANNEL INVERT TO BE PER THE ROADWAY TEMPLATE. GRADE OUTLET TO BLEND WITH EXISTING GROUND PER ENGINEER AT NO DIRECT PAYMENT. (H = 0.50') (SEE SHEET DD2)	"XS" 732+23
13	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 28.0' LT. (GRATE ELEV. = 5025.41', H = 2.25', A = 3.00'). INSTALL 23" X 14" X 9' HERCP (UIE = 5023.16', LIE = 5023.09') TO "XS" 740+16, 39.5' LT. CONSTRUCT CLASS 150 RIPRAP APRON AT OUTLET. (SEE SHEET DP7)	"XS" 740+16
14	CONSTRUCT ACCESS ROAD FROM "XS" 732+23, 51.0' LT (ELEV. = 4994.58', W = 12.0') TO "XS" 732+68, 50.5' LT (ELEV. = 4995.72', W = 12.0') TO "XS" 732+88, 50.5' LT (ELEV. = 4996.56', W = 0.0'). BLEND WITH ADJACENT DITCH AND ACCESS ROAD PER ENGINEER. (SEE SHEET DD2)	"XS" 732+23
SHEET D11		
1	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 30.0' RT. (GRATE ELEV. = 5061.34', H = 3.00', A = 2.50'). INSTALL 18" X 20' RCP (UIE = 5058.34', LIE = 5058.27') TO "XN" 753+94, 43.7' RT. INSTALL PRECAST END SECTION AT OUTLET. CONSTRUCT CLASS 150 RIPRAP APRON AT OUTLET. (SEE SHEET DP7)	"XN" 754+09

DRAINAGE STRUCTURE LIST

616 1000	610 0585	610 0490	610 0480	610 0470	610 0460	610 0210	610 0200	610 0190	610 0170	610 0050	609 1040	609 1030	NOTE NO.	DESCRIPTION	STATION TO STATION		
LINFT	SQYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	SQYD	POUND	POUND					
														842	2	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 30.0' RT. (GRATE ELEV. = 5061.69', H = 3.00', A = 2.50'). INSTALL 18" X 25" RCP (UIE = 5058.69', LIE = 5058.44') AND CONNECT TO DROP INLET AT "XN" 754+09, 30.0' RT. (SEE SHEET DP7)	"XN" 754+35
															3	CONSTRUCT EARTHEN TRAPEZOIDAL DITCH FROM "XN" 753+94, 43.7' RT (IE = 5058.27', W = 2.0') TO "XN" 753+43, 49.0' RT (IE = 5058.10', W = 0.0'). (RSS = 2:1, LSS = 2:1, H = VARIES)	"XN" 753+94
														956	4	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 28.0' LT. (GRATE ELEV. = 5028.23', H = 2.25', A = 3.00'). INSTALL 23" X 14" X 9' HERCP (UIE = 5025.98', LIE = 5025.91') TO "XS" 741+15, 39.5' LT. CONSTRUCT CLASS 150 RIPRAP APRON AT OUTLET. (SEE SHEET DP7)	"XS" 741+15
						3				9	19			956	5	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 28.0' LT. (GRATE ELEV. = 5041.58', H = 2.25', A = 3.00'). INSTALL 23" X 14" X 9' HERCP (UIE = 5039.33', LIE = 5039.25') TO "XS" 745+65, 39.5' LT. CONSTRUCT CLASS 150 RIPRAP APRON AT OUTLET. (SEE SHEET DP7)	"XS" 745+65
														1435	6	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 28.0' LT. (GRATE ELEV. = 5051.31', H = 2.25', A = 4.00'). INSTALL 23" X 14" X 9' HERCP (UIE = 5049.06', LIE = 5048.94') TO "XS" 749+16, 39.5' LT. CONSTRUCT CLASS 150 RIPRAP APRON AT OUTLET. (SEE SHEET DP7)	"XS" 749+16
SHEET D12																	
															1	CONSTRUCT ROADSIDE BITUMINOUS DITCH FROM "XS" 756+32, 94.2' LT (IE = 5034.64') TO "XS" 756+65, 54.3' LT (IE = 5034.81') TO "XS" 756+80, 36.5' LT (IE = 5034.88') TO "XN" 757+25, 29.3' RT (IE = 5036.29') TO "XN" 757+26, 32.7' RT (IE = 5036.40') TO "XN" 757+30, 58.3' RT (IE = 5037.25'). BLEND WITH EXISTING DITCH AT INLET AND OUTLET PER ENGINEER AT NO DIRECT PAYMENT. (RSS = 4:1; H = 1.0') (SEE SHEET DD2)	"XS" 756+32
															2	EXISTING 30" RCP FROM "XN" 758+84, 80.9' RT TO "XS" 758+17, 63.2' LT. REMOVE RCP AND END SECTION AT INLET AND OUTLET.	"XN" 758+84

DRAINAGE STRUCTURE LIST

616 1000	610 0585	610 0490	610 0480	610 0470	610 0460	610 0210	610 0200	610 0190	610 0170	610 0050	609 1040	609 1030
TYPE C-NV-4B FENCE	ARTICULATED CONCRETE BLOCK	RIPRAP BEDDING (CLASS 550)	RIPRAP BEDDING (CLASS 400)	RIPRAP BEDDING (CLASS 300)	RIPRAP BEDDING (CLASS 150)	RIPRAP (CLASS 550)	RIPRAP (CLASS 400)	RIPRAP (CLASS 300)	RIPRAP (CLASS 150)	GEOTEXTILE (CLASS 1)	STRUCTURAL STEEL GRATES	CASTINGS
LINFT	SQYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	SQYD	POUND	POUND

NOTE NO.	DESCRIPTION	STATION TO STATION
10	INSTALL STORMWATER TREATMENT VAULT, 29.8' RT TO CENTER. (COVER ELEV. = 5066.12). INSTALL 12" X 21" RCP (UIE = 5060.85, LIE = 5060.65). CONNECT TO DROP INLET AT "XN" 759+33, 33.1' RT. (SEE SHEET DD6, DP9)	"XN" 759+58
11	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.9' RT. (GRATE ELEV. = 5066.38, H = 5.25', A = 2.50'). INSTALL 18" X 45' RCP (UIE = 5062.88, LIE = 5060.65) AND CONNECT TO DROP INLET AT "XN" 759+33, 33.1' RT. INSTALL 12" X 19' RCP (UIE = 5061.13, LIE = 5060.95) FROM DROP INLET TO TREATMENT VAULT AT "XN" 759+58, 29.8' RT. (SEE SHEET DD6, DP9)	"XN" 759+80
12	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 35.9' RT. (GRATE ELEV. = 5067.47, H = 3.50', A = 2.50'). INSTALL 18" X 104' RCP (UIE = 5063.97, LIE = 5062.98) AND CONNECT TO DROP INLET AT "XN" 759+80, 33.9' RT. (SEE SHEET DP9)	"XN" 760+87
13	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 37.6' RT. (GRATE ELEV. = 5068.55, H = 3.50', A = 2.50'). INSTALL 18" X 93' RCP (UIE = 5065.05, LIE = 5064.07) AND CONNECT TO DROP INLET AT "XN" 760+87, 35.9' RT. (SEE SHEET DP9)	"XN" 761+82
14	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 39.3' RT. (GRATE ELEV. = 5070.05, H = 3.50', A = 2.50'). INSTALL 18" X 93' RCP (UIE = 5066.55, LIE = 5065.15) AND CONNECT TO DROP INLET AT "XN" 761+82, 37.6' RT. (SEE SHEET DP9)	"XN" 762+76
15	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 17.0' RT. (GRATE ELEV. = 5074.74, H = 3.00', A = 2.50'). INSTALL 15" X 20' RCP (UIE = 5071.74, LIE = 5070.73) AND CONNECT TO DROP INLET AT "XN" 764+88, 43.0' RT. (SEE SHEET DP9)	"XN" 764+88
16	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 43.0' RT. (GRATE ELEV. = 5074.13, H = 3.50', A = 2.50'). INSTALL 18" X 210' RCP (UIE = 5070.63, LIE = 5066.65) AND CONNECT TO DROP INLET AT "XN" 762+76, 39.3' RT. (SEE SHEET DP9)	"XN" 764+88
17	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 17.0' RT. (GRATE ELEV. = 5078.02, H = 3.00', A = 2.50'). INSTALL 15" X 20' RCP (UIE = 5075.02, LIE = 5074.34) AND CONNECT TO DROP INLET AT "XN" 766+02, 43.0' RT. (SEE SHEET DP9)	"XN" 766+02

DRAINAGE STRUCTURE LIST

														616 1000	610 0585	610 0490	610 0480	610 0470	610 0460	610 0210	610 0200	610 0190	610 0170	610 0050	609 1040	609 1030	NOTE NO.	DESCRIPTION	STATION TO STATION		
														LINFT	SQYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	SQYD	POUND	POUND					
																											117	18	CONSTRUCT TYPE 7 DROP INLET, 13.7' LT. (GRATE ELEV. = 5090.05', H = 5.38'). INSTALL 18" X 67' RCP (UIE = 5085.05', LIE = 5078.17') TO "V1" 14+36, 81.4' LT. INSTALL PRECAST END SECTION AT OUTLET. WRAP RIPRAP OF DOWNSTREAM BASIN AROUND END SECTION. CONSTRUCT BITUMINOUS APRON AROUND DROP INLET. (SEE SHEET DD3, DP10)	"V1" 14+34	
																											842	19	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.0' LT. (GRATE ELEV. = 5065.70', H = 5.00', A = 2.50'). INSTALL 18" CMP DOWN DRAIN TO "XS" 758+91, 90.4' LT (IE = 5034.27'). CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET AND BLEND WITH DOWNSTREAM CHANNEL PER ENGINEER. (SEE SHEET DP7)	"XS" 758+91	
																		2				6					15				
																											842	20	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 31.8' LT. (GRATE ELEV. = 5066.48', H = 4.00', A = 2.50'). INSTALL 18" X 173' RCP (UIE = 5062.48', LIE = 5060.80') AND CONNECT TO DROP INLET AT "XS" 758+91, 33.0' LT. (SEE SHEET DP7)	"XS" 760+66	
																												842	21	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.1' LT. (GRATE ELEV. = 5067.41', H = 3.00', A = 2.50'). INSTALL 18" X 185' RCP (UIE = 5064.41', LIE = 5062.58') AND CONNECT TO DROP INLET AT "XS" 760+66, 31.8' LT. (SEE SHEET DP7)	"XS" 762+53
																												842	22	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 43.0' RT. (GRATE ELEV. = 5077.74', H = 3.50', A = 2.50'). INSTALL 18" X 112' RCP (UIE = 5074.24', LIE = 5070.73') AND CONNECT TO DROP INLET AT "XN" 764+88, 43.0' RT. (SEE SHEET DP9)	"XN" 766+02
																												842	23	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 43.0' RT. (GRATE ELEV. = 5082.92', H = 3.50', A = 2.50'). INSTALL 18" X 179' RCP (UIE = 5079.42', LIE = 5074.34') AND CONNECT TO DROP INLET AT "XN" 766+02, 43.0' RT. (SEE SHEET DP9)	"XN" 767+83
																												842	24	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.7' LT. (GRATE ELEV. = 5088.67', H = 5.75', A = 2.50'). INSTALL 18" X 53' RCP (UIE = 5082.92', LIE = 5082.66') AND CONNECT TO MANHOLE AT "XN" 769+45, 23.7' RT. (SEE SHEET DP9)	"XN" 769+48
																													25	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.0' LT. (GRATE ELEV. = 5089.12', H = 5.74', A = 2.50'). INSTALL 18" X 23' RCP (UIE = 5083.38', LIE = 5083.02') AND CONNECT TO DROP INLET AT "XN" 769+48, 33.7' LT. (SEE SHEET DP9)	"XN" 769+73

DRAINAGE STRUCTURE LIST

609 0840	STORMWATER TREATMENT VAULT (TYPE A)
609 0400	TYPE 4 MANHOLE
609 0396	TYPE 3 MANHOLE (MODIFIED)
609 0390	TYPE 2 MANHOLE (MODIFIED)
609 0380	TYPE 1 MANHOLE (MODIFIED)
609 0290	CONNECT TO EXISTING MANHOLE
609 0220	ADJUST MANHOLE
608 0510	36-INCH METAL END SECTION (DOWNDRAIN)
608 0490	24-INCH METAL END SECTION (DOWNDRAIN)
608 0470	18-INCH METAL END SECTION (DOWNDRAIN)
608 0420	36-INCH DOWNDRAIN PIPE
608 0400	24-INCH DOWNDRAIN PIPE
608 0370	18-INCH DOWNDRAIN PIPE
608 0290	ANCHOR ASSEMBLY (36-INCH)
608 0270	ANCHOR ASSEMBLY (24-INCH)
608 0250	ANCHOR ASSEMBLY (18-INCH)
604 2420	18-INCH METAL END SECTION (SAFETY TYPE)
603 1120	48-INCH PRECAST END SECTION
603 1090	36-INCH PRECAST END SECTION
603 1070	30-INCH PRECAST END SECTION
603 1050	24-INCH PRECAST END SECTION
603 1030	18-INCH PRECAST END SECTION
603 1020	15-INCH PRECAST END SECTION
603 0670	23-INCH X 14-INCH OVAL REINFORCED CONCRETE PIPE, CLASS HE III
603 0460	48-INCH REINFORCED CONCRETE PIPE, CLASS V
603 0350	36-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0290	30-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0230	24-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0170	18-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0140	15-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0110	12-INCH REINFORCED CONCRETE PIPE, CLASS III
600 0100	TRENCH DRAIN
506 0820	PEDESTRIAN RAIL, TYPE X
505 0100	REINFORCING STEEL
502 0881	CLASS DA CONCRETE, MODIFIED (MAJOR) (STRUCTURES)
502 0750	CLASS AA CONCRETE (MINOR)
402 0110	PLANTMIX PAVED DITCHES
402 0100	PLANTMIXING MISCELLANEOUS AREAS
302 0140	TYPE 1 CLASS B AGGREGATE BASE
207 0150	SLURRY CEMENT BACKFILL
207 0110	GRANULAR BACKFILL
206 0110	STRUCTURE EXCAVATION
203 0160	DRAINAGE EXCAVATION
202 1240	REMOVAL OF CORRUGATED METAL PIPE DOWNDRAIN
202 1231	REMOVAL OF SLOTTED DRAIN
202 1230	REMOVAL OF STORM DRAIN PIPE
202 1040	REMOVAL OF DROP INLET
202 1035	REMOVAL OF MANHOLE
202 0585	REMOVAL OF FENCE
202 0450	REMOVE END SECTION

NOTE NO.	DESCRIPTION	STATION TO STATION
SHEET D13		
1	CONSTRUCT CLASS 400 RIPRAP TRAPEZOIDAL DITCH FROM "XS" 770+89, 316.7' LT (IE = 5077.81') TO "XS" 771+91, 272.8' LT (IE = 5081.00') TO "XS" 772+72, 232.5' LT (IE = 5083.50') TO "XS" 773+78, 189.7' LT (IE = 5088.50') TO "XS1" 776+31, 114.3' LT (IE = 5105.00') TO "XS1" 777+36, 83.6' LT (IE = 5117.00') TO "XS1" 778+05, 58.5' LT (IE = 5127.00'). (LSS = 2:1, RSS = 2:1, W = 4.0', H = VARIES TO EXISTING GROUND)	"XS" 770+89
2	REMOVE EXISTING DROP INLET, 34.4' LT. ABANDON AND SLURRY FILL 24" RCP TO "XN" 772+68, 77.7' RT. REMOVE END SECTION AT OUTLET.	"XN" 772+05
3	REMOVE EXISTING DROP INLET, 77.0' LT AND REMOVE VERTICAL CMP TO TOP OF RCP. REMOVE 4' OF RCP WITHIN INSIDE OF MANHOLE. CONSTRUCT TYPE 3 MODIFIED MANHOLE, 77.0' LT (COVER ELEV. = 5106.02', H = 10.89'). CONNECT TO EXISTING RCP. VERIFY HEIGHT PRIOR TO CONSTRUCTION. MANHOLE COVER TO BE BEEHIVE GRATE PER ENGINEER. (SEE SHEET DP13)	"V3" 15+82
4	EXISTING 18" X 20' CMP, 34.0' RT. REMOVE END SECTION AT OUTLET. REMOVE CMP. REGRADE AND CONFORM TO DITCH AT "V4" 22+02.	"V4" 22+13
5	REMOVE END SECTION AT OUTLET OF 30" RCP, 90.7' RT. INSTALL END SECTION AT OUTLET OF RCP, 90.7' RT. CONSTRUCT CLASS 400 RIPRAP DITCH FROM "XN" 771+08, 90.7' RT (IE = 5066.35') TO "XN" 770+83, 92.6' RT (IE = 5065.46'). (LSS = 2:1, RSS = 2:1, W = 10.0', H = 3.0', TW = 0.0', BSS = 2:1 IF IN CUT AND 2% IF IN FILL) WRAP RIPRAP AROUND RCP END SECTION AT INLET AND CONCRETE DITCH AT OUTLET PER ENGINEER.	"XN" 771+08
6	CONSTRUCT WATER QUALITY BASIN, 338.2' LT. (SEE SHEET DD3)	"XS" 770+26
7	REMOVE EXISTING DROP INLET, 0.9' LT. ABANDON AND SLURRY FILL 18" RCP TO DROP INLET AT "V3" 26+56, 20.8' RT.	"V4" 19+06
8	CONSTRUCT MODIFIED BITUMINOUS DITCH "B" FROM "V1" 20+75, 13.6' LT TO "V1" 14+47, 14.1' LT. (SEE SHEET DD3)	"V1" 20+75

DRAINAGE STRUCTURE LIST

																	616 1000	610 0585	610 0490	610 0480	610 0470	610 0460	610 0210	610 0200	610 0190	610 0170	610 0050	609 1040	609 1030	NOTE NO.	DESCRIPTION	STATION TO STATION
																	TYPE C-NV-4B FENCE	ARTICULATED CONCRETE BLOCK	RIPRAP BEDDING (CLASS 550)	RIPRAP BEDDING (CLASS 400)	RIPRAP BEDDING (CLASS 300)	RIPRAP BEDDING (CLASS 150)	RIPRAP (CLASS 550)	RIPRAP (CLASS 400)	RIPRAP (CLASS 300)	RIPRAP (CLASS 150)	GEOTEXTILE (CLASS 1)	STRUCTURAL STEEL GRATES	CASTINGS			
																	LINFT	SQYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	SQYD	POUND	POUND			
SHEET D13																																
															1	CONSTRUCT CLASS 400 RIPRAP TRAPEZOIDAL DITCH FROM "XS" 770+89, 316.7' LT (IE = 5077.81') TO "XS" 771+91, 272.8' LT (IE = 5081.00') TO "XS" 772+72, 232.5' LT (IE = 5083.50') TO "XS" 773+78, 189.7' LT (IE = 5088.50') TO "XS1" 776+31, 114.3' LT (IE = 5105.00') TO "XS1" 777+36, 83.6' LT (IE = 5117.00') TO "XS1" 778+05, 58.5' LT (IE = 5127.00'). (LSS = 2:1, RSS = 2:1, W = 4.0', H = VARIES TO EXISTING GROUND)	"XS" 770+89															
															2	REMOVE EXISTING DROP INLET, 34.4' LT. ABANDON AND SLURRY FILL 24" RCP TO "XN" 772+68, 77.7' RT. REMOVE END SECTION AT OUTLET.	"XN" 772+05															
													550	3	REMOVE EXISTING DROP INLET, 77.0' LT AND REMOVE VERTICAL CMP TO TOP OF RCP. REMOVE 4' OF RCP WITHIN INSIDE OF MANHOLE. CONSTRUCT TYPE 3 MODIFIED MANHOLE, 77.0' LT (COVER ELEV. = 5106.02', H = 10.89'). CONNECT TO EXISTING RCP. VERIFY HEIGHT PRIOR TO CONSTRUCTION. MANHOLE COVER TO BE BEEHIVE GRATE PER ENGINEER. (SEE SHEET DP13)	"V3" 15+82																
														4	EXISTING 18" X 20' CMP, 34.0' RT. REMOVE END SECTION AT OUTLET. REMOVE CMP. REGRADE AND CONFORM TO DITCH AT "V4" 22+02.	"V4" 22+13																
														5	REMOVE END SECTION AT OUTLET OF 30" RCP, 90.7' RT. INSTALL END SECTION AT OUTLET OF RCP, 90.7' RT. CONSTRUCT CLASS 400 RIPRAP DITCH FROM "XN" 771+08, 90.7' RT (IE = 5066.35') TO "XN" 770+83, 92.6' RT (IE = 5065.46'). (LSS = 2:1, RSS = 2:1, W = 10.0', H = 3.0', TW = 0.0', BSS = 2:1 IF IN CUT AND 2% IF IN FILL) WRAP RIPRAP AROUND RCP END SECTION AT INLET AND CONCRETE DITCH AT OUTLET PER ENGINEER.	"XN" 771+08																
														6	CONSTRUCT WATER QUALITY BASIN, 338.2' LT. (SEE SHEET DD3)	"XS" 770+26																
														7	REMOVE EXISTING DROP INLET, 0.9' LT. ABANDON AND SLURRY FILL 18" RCP TO DROP INLET AT "V3" 26+56, 20.8' RT.	"V4" 19+06																
														8	CONSTRUCT MODIFIED BITUMINOUS DITCH "B" FROM "V1" 20+75, 13.6' LT TO "V1" 14+47, 14.1' LT. (SEE SHEET DD3)	"V1" 20+75																

DRAINAGE STRUCTURE LIST

616 1000	610 0585	610 0490	610 0480	610 0470	610 0460	610 0210	610 0200	610 0190	610 0170	610 0050	609 1040	609 1030
TYPE C-NV-4B FENCE	ARTICULATED CONCRETE BLOCK	RIPRAP BEDDING (CLASS 550)	RIPRAP BEDDING (CLASS 400)	RIPRAP BEDDING (CLASS 300)	RIPRAP BEDDING (CLASS 150)	RIPRAP (CLASS 550)	RIPRAP (CLASS 400)	RIPRAP (CLASS 300)	RIPRAP (CLASS 150)	GEOTEXTILE (CLASS 1)	STRUCTURAL STEEL GRATES	CASTINGS
LINFT	SQYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	SQYD	POUND	POUND
			41				146			193		
				2				6		15		
30												
											842	
												842
												1068
				4				8				36
												550

NOTE NO.	DESCRIPTION	STATION TO STATION
9	CONSTRUCT CLASS 400 RIPRAP DITCH FROM "XS" 771+67, 46.5' LT (IE = 5095.00') TO "XS" 771+32, 57.3' LT (IE = 5089.50') TO "XS" 770+99, 60.4' LT (IE = 5081.50') TO XS 770+78, 58.8' LT (IE = 5076.50') TO "XS" 770+54, 48.1' LT (IE = 5070.06'). (LSS = 2:1, RSS = 2:1, W = 4.0', H = VARIES TO EXIST.)	"XS" 771+67
10	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 17.0' RT. (GRATE ELEV. = 5135.18', H = 3.00', A = 2.50'). INSTALL 18" X 32" RCP (UIE = 5132.18', LIE = 5129.50') AND CONNECT TO DROP INLET AT "V4" 31+39, 17.0' RT. (SEE SHEET DP12)	"V4" 31+73
11	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 17.0' RT. (GRATE ELEV. = 5133.40', H = 4.00', A = 2.50'). INSTALL 18" CMP DOWN DRAIN TO "V4" 31+39, 57.6' RT (IE = 5112.97'). CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET. (SEE SHEET DP12)	"V4" 31+39
12	REMOVE EXISTING FENCE FROM "V4" 31+54, 55.7' RT TO V4 31+25, 55.9' RT. CONSTRUCT TYPE C-NV-4B FENCE FROM "V4" 31+54, 55.7' RT TO "V4" 31+25, 55.9' RT. CONNECT TO EXISTING FENCE AT EACH END.	"V4" 31+54
13	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 4.6' LT. (GRATE ELEV. = 5079.55', H = 4.00', A = 3.50'). INSTALL 18" X 43" RCP (UIE = 5075.55', LIE = 5073.84') TO "V4" 22+64, 50.0' LT. INSTALL PRECAST END SECTION AT OUTLET. (SEE SHEET DP12)	"V4" 22+64
14	CONSTRUCT CLASS 300 RIPRAP TRAPEZOIDAL DITCH FROM "V4" 22+64, 46.0' LT (IE = 5075.85') TO "V4" 22+64, 50.0' LT (IE = 5073.84') TO "V4" 22+64, 57.8' LT (IE = 5072.80') TO "V4" 22+63, 71.8' LT (IE = 5072.00'). (RSS = 2:1, LSS = 2:1, W = 3.0', H = VARIES TO EXIST.)	"V4" 22+64
15	INLET OF EXISTING 30" RCP, 41.7' LT. REMOVE END SECTION. REMOVE RCP TO "V4" 21+52, 1.5' RT.	"V4" 21+90
16	CONSTRUCT TYPE 2 MODIFIED MANHOLE, 0.0' LT (COVER ELEV. = 5075.11', H = 6.34'). INSTALL 30" X 78" RCP FROM "V4" 22+12, 55.4' LT (UIE = 5070.50', LIE = 5068.87'). INSTALL PRECAST END SECTION AT INLET. CONNECT MANHOLE TO EXISTING RCP. CENTER OF MANHOLE LID TO BE AT "V4" 21+53, 1.2' LT. VERIFY HEIGHT PRIOR TO CONSTRUCTION. CONSTRUCT EARTHEN TRAPEZOIDAL DITCH AT INLET FROM "V4" 22+12, 55.4' LT (IE = 5070.50', W = 3.0') TO "V4" 22+36, 73.2' LT (IE = 5072.02', W = 0.0'). (RSS = 3:1, LSS = 3:1, H = VARIES TO EXIST.) (SEE SHEET DP11)	"V4" 21+53

DRAINAGE STRUCTURE LIST

609 0840	STORMWATER TREATMENT VAULT (TYPE A)
609 0400	TYPE 4 MANHOLE
609 0396	TYPE 3 MANHOLE (MODIFIED)
609 0390	TYPE 2 MANHOLE (MODIFIED)
609 0380	TYPE 1 MANHOLE (MODIFIED)
609 0290	CONNECT TO EXISTING MANHOLE
609 0220	ADJUST MANHOLE
608 0510	36-INCH METAL END SECTION (DOWNDRAIN)
608 0490	24-INCH METAL END SECTION (DOWNDRAIN)
608 0470	18-INCH METAL END SECTION (DOWNDRAIN)
608 0420	36-INCH DOWNDRAIN PIPE
608 0400	24-INCH DOWNDRAIN PIPE
608 0370	18-INCH DOWNDRAIN PIPE
608 0290	ANCHOR ASSEMBLY (36-INCH)
608 0270	ANCHOR ASSEMBLY (24-INCH)
608 0250	ANCHOR ASSEMBLY (18-INCH)
604 2420	18-INCH METAL END SECTION (SAFETY TYPE)
603 1120	48-INCH PRECAST END SECTION
603 1090	36-INCH PRECAST END SECTION
603 1070	30-INCH PRECAST END SECTION
603 1050	24-INCH PRECAST END SECTION
603 1030	18-INCH PRECAST END SECTION
603 1020	15-INCH PRECAST END SECTION
603 0670	23-INCH X 14-INCH OVAL REINFORCED CONCRETE PIPE, CLASS HE III
603 0460	48-INCH REINFORCED CONCRETE PIPE, CLASS V
603 0350	36-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0290	30-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0230	24-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0170	18-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0140	15-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0110	12-INCH REINFORCED CONCRETE PIPE, CLASS III
600 0100	TRENCH DRAIN
506 0820	PEDESTRIAN RAIL, TYPE X
505 0100	REINFORCING STEEL
502 0881	CLASS DA CONCRETE, MODIFIED (MAJOR) (STRUCTURES)
502 0750	CLASS AA CONCRETE (MINOR)
402 0110	PLANTMIX PAVED DITCHES
402 0100	PLANTMIXING MISCELLANEOUS AREAS
302 0140	TYPE 1 CLASS B AGGREGATE BASE
207 0150	SLURRY CEMENT BACKFILL
207 0110	GRANULAR BACKFILL
206 0110	STRUCTURE EXCAVATION
203 0160	DRAINAGE EXCAVATION
202 1240	REMOVAL OF CORRUGATED METAL PIPE DOWNDRAIN
202 1231	REMOVAL OF SLOTTED DRAIN
202 1230	REMOVAL OF STORM DRAIN PIPE
202 1040	REMOVAL OF DROP INLET
202 1035	REMOVAL OF MANHOLE
202 0585	REMOVAL OF FENCE
202 0450	REMOVE END SECTION

NOTE NO.	DESCRIPTION	STATION TO STATION
17	CONSTRUCT TYPE 2 DROP INLET, 1.7' LT. (GRATE ELEV. = 5074.03', H = 3.00', A = 3.00'). CONSTRUCT 8" X 18' TRENCH DRAIN BRACK ON LINE (H1 = 6", H2 = 24"). INSTALL 15" X 26' RCP (UIE = 5071.03', LIE = 5070.53') AND CONNECT TO DROP INLET AT "V4" 21+46, 2.7' LT. (SEE SHEET DP11)	"V4" 21+18
18	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 2.7' LT. (GRATE ELEV. = 5074.73', H = 4.30', A = 2.50'). INSTALL 18" X 4' RCP (UIE = 5070.43', LIE = 5070.36') AND CONNECT TO MANHOLE AT "V4" 21+53, 0.0' LT. (SEE SHEET DP11)	"V4" 21+46
19	CONSTRUCT CLASS 400 RIPRAP DITCH FROM "V4" 22+02, 33.6' RT (IE = 5076.78') TO "V4" 21+97, 38.1' RT (IE = 5074.03') TO "V4" 21+58, 67.4' RT (IE = 5070.00') TO V4 21+31, 72.4' RT (IE = 5068.00') TO "V4" 21+04, 68.2' RT (IE = 5065.82'). (LSS = 2:1, RSS = 2:1, W = 4.0', H = VARIES TO EXIST.) BLEND WITH ROADSIDE DITCH AT INLET AND PROPOSED DITCH AT OUTLET.	"V4" 22+02
20	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 18.5' LT. (GRATE ELEV. = 5097.72', H = 3.00', A = 2.50'). INSTALL 18" X 11' RCP (UIE = 5094.72', LIE = 5094.61') TO "XS" 771+63, 32.4' LT. INSTALL PRECAST END SECTION AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET (A = 13'). (SEE SHEET DP11)	"XS" 771+63
21	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.3' LT. (GRATE ELEV. = 5096.33', H = 2.50', A = 3.00'). INSTALL 15" X 30' RCP (UIE = 5093.83', LIE = 5093.68') AND CONNECT TO DROP INLET AT "XN" 772+48, 34.5' LT. (SEE SHEET DP12)	"XN" 772+15
22	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 34.5' LT. (GRATE ELEV. = 5097.29', H = 3.71', A = 3.00'). INSTALL 18" X 61' RCP (UIE = 5093.58', LIE = 5093.29') AND CONNECT TO DROP INLET AT "XN" 772+74, 23.5' RT. (SEE SHEET DP12)	"XN" 772+48
23	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 23.5' RT. (GRATE ELEV. = 5099.65', H = 6.46', A = 4.00'). INSTALL 18" X 33' RCP (UIE = 5093.19', LIE = 5093.03') AND CONNECT TO MANHOLE AT "XN" 773+05, 42.5' RT. (SEE SHEET DP12)	"XN" 772+74
24	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 42.5' RT. (COVER ELEV. = 5101.15', H = 8.22'). INSTALL 18" CMP DOWN DRAIN TO "XN" 773+04, 94.3' RT (IE = 5072.01'). CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET. (SEE SHEET DP12)	"XN" 773+05

DRAINAGE STRUCTURE LIST

TYPE C-NV-4B FENCE	ARTICULATED CONCRETE BLOCK	RIPRAP BEDDING (CLASS 550)	RIPRAP BEDDING (CLASS 400)	RIPRAP BEDDING (CLASS 300)	RIPRAP BEDDING (CLASS 150)	RIPRAP (CLASS 550)	RIPRAP (CLASS 400)	RIPRAP (CLASS 300)	RIPRAP (CLASS 150)	GEOTEXTILE (CLASS 1)	STRUCTURAL STEEL GRATES	CASTINGS	NOTE NO.	DESCRIPTION	STATION TO STATION
616 1000	610 0585	610 0490	610 0480	610 0470	610 0460	610 0210	610 0200	610 0190	610 0170	610 0050	609 1040	609 1030			
LINFT	SQYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	SQYD	POUND	POUND			
												349	17	CONSTRUCT TYPE 2 DROP INLET, 1.7' LT. (GRATE ELEV. = 5074.03', H = 3.00', A = 3.00'). CONSTRUCT 8" X 18' TRENCH DRAIN BRACK ON LINE (H1 = 6", H2 = 24"). INSTALL 15" X 26' RCP (UIE = 5071.03', LIE = 5070.53') AND CONNECT TO DROP INLET AT "V4" 21+46, 2.7' LT. (SEE SHEET DP11)	"V4" 21+18
												574	18	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 2.7' LT. (GRATE ELEV. = 5074.73', H = 4.30', A = 2.50'). INSTALL 18" X 4' RCP (UIE = 5070.43', LIE = 5070.36') AND CONNECT TO MANHOLE AT "V4" 21+53, 0.0' LT. (SEE SHEET DP11)	"V4" 21+46
			44				158					277	19	CONSTRUCT CLASS 400 RIPRAP DITCH FROM "V4" 22+02, 33.6' RT (IE = 5076.78') TO "V4" 21+97, 38.1' RT (IE = 5074.03') TO "V4" 21+58, 67.4' RT (IE = 5070.00') TO V4 21+31, 72.4' RT (IE = 5068.00') TO "V4" 21+04, 68.2' RT (IE = 5065.82'). (LSS = 2:1, RSS = 2:1, W = 4.0', H = VARIES TO EXIST.) BLEND WITH ROADSIDE DITCH AT INLET AND PROPOSED DITCH AT OUTLET.	"V4" 22+02
												842	20	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 18.5' LT. (GRATE ELEV. = 5097.72', H = 3.00', A = 2.50'). INSTALL 18" X 11' RCP (UIE = 5094.72', LIE = 5094.61') TO "XS" 771+63, 32.4' LT. INSTALL PRECAST END SECTION AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET (A = 13'). (SEE SHEET DP11)	"XS" 771+63
				4				11				28	21	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 33.3' LT. (GRATE ELEV. = 5096.33', H = 2.50', A = 3.00'). INSTALL 15" X 30' RCP (UIE = 5093.83', LIE = 5093.68') AND CONNECT TO DROP INLET AT "XN" 772+48, 34.5' LT. (SEE SHEET DP12)	"XN" 772+15
												956	22	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 34.5' LT. (GRATE ELEV. = 5097.29', H = 3.71', A = 3.00'). INSTALL 18" X 61' RCP (UIE = 5093.58', LIE = 5093.29') AND CONNECT TO DROP INLET AT "XN" 772+74, 23.5' RT. (SEE SHEET DP12)	"XN" 772+48
												980	23	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 23.5' RT. (GRATE ELEV. = 5099.65', H = 6.46', A = 4.00'). INSTALL 18" X 33' RCP (UIE = 5093.19', LIE = 5093.03') AND CONNECT TO MANHOLE AT "XN" 773+05, 42.5' RT. (SEE SHEET DP12)	"XN" 772+74
												550	24	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 42.5' RT. (COVER ELEV. = 5101.15', H = 8.22'). INSTALL 18" CMP DOWN DRAIN TO "XN" 773+04, 94.3' RT (IE = 5072.01'). CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET. (SEE SHEET DP12)	"XN" 773+05
				2				6				15			

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	DS28

DRAINAGE STRUCTURE LIST

609 0840	STORMWATER TREATMENT VAULT (TYPE A)
609 0400	TYPE 4 MANHOLE
609 0396	TYPE 3 MANHOLE (MODIFIED)
609 0390	TYPE 2 MANHOLE (MODIFIED)
609 0380	TYPE 1 MANHOLE (MODIFIED)
609 0290	CONNECT TO EXISTING MANHOLE
609 0220	ADJUST MANHOLE
608 0510	36-INCH METAL END SECTION (DOWNDRAIN)
608 0490	24-INCH METAL END SECTION (DOWNDRAIN)
608 0470	18-INCH METAL END SECTION (DOWNDRAIN)
608 0420	36-INCH DOWNDRAIN PIPE
608 0400	24-INCH DOWNDRAIN PIPE
608 0370	18-INCH DOWNDRAIN PIPE
608 0290	ANCHOR ASSEMBLY (36-INCH)
608 0270	ANCHOR ASSEMBLY (24-INCH)
608 0250	ANCHOR ASSEMBLY (18-INCH)
604 2420	18-INCH METAL END SECTION (SAFETY TYPE)
603 1120	48-INCH PRECAST END SECTION
603 1090	36-INCH PRECAST END SECTION
603 1070	30-INCH PRECAST END SECTION
603 1050	24-INCH PRECAST END SECTION
603 1030	18-INCH PRECAST END SECTION
603 1020	15-INCH PRECAST END SECTION
603 0670	23-INCH X 14-INCH OVAL REINFORCED CONCRETE PIPE, CLASS III
603 0460	48-INCH REINFORCED CONCRETE PIPE, CLASS V
603 0350	36-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0290	30-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0230	24-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0170	18-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0140	15-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0110	12-INCH REINFORCED CONCRETE PIPE, CLASS III
600 0100	TRENCH DRAIN
506 0820	PEDESTRIAN RAIL, TYPE X
505 0100	REINFORCING STEEL
502 0881	CLASS DA CONCRETE, MODIFIED (MAJOR) (STRUCTURES)
502 0750	CLASS AA CONCRETE (MINOR)
402 0110	PLANTMIX PAVED DITCHES
402 0100	PLANTMIXING MISCELLANEOUS AREAS
302 0140	TYPE 1 CLASS B AGGREGATE BASE
207 0150	SLURRY CEMENT BACKFILL
207 0110	GRANULAR BACKFILL
206 0110	STRUCTURE EXCAVATION
203 0160	DRAINAGE EXCAVATION
202 1240	REMOVAL OF CORRUGATED METAL PIPE DOWNDRAIN
202 1231	REMOVAL OF SLOTTED DRAIN
202 1230	REMOVAL OF STORM DRAIN PIPE
202 1040	REMOVAL OF DROP INLET
202 1035	REMOVAL OF MANHOLE
202 0585	REMOVAL OF FENCE
202 0450	REMOVE END SECTION

NOTE NO.	DESCRIPTION	STATION TO STATION
25	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 23.5' RT. (GRATE ELEV. = 5101.40', H = 3.50', A = 4.00'). INSTALL 18" X 26' RCP (UIE = 5097.90', LIE = 5097.66') AND CONNECT TO MANHOLE AT "XN" 773+05, 42.5' RT. (SEE SHEET DP12)	"XN" 773+25
26	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 52.1' RT. (GRATE ELEV. = 5108.41', H = 4.00', A = 3.00'). INSTALL 18" CMP DOWN DRAIN TO "XN1" 775+39, 109.4' RT (IE = 5076.41'). CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET. (SEE SHEET DP15)	"XN1" 775+42
27	CONSTRUCT TYPE 2 MODIFIED MANHOLE, 15.7' RT. (COVER ELEV. = 5116.57', H = 6.88'). INSTALL 30" X 162' RCP (UIE = 5109.69', LIE = 5101.42') AND CONNECT TO MANHOLE AT "V3" 15+82, 77.0' LT. (SEE SHEET DP13)	"GV3" 25+37
28	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5115.35', H = 3.00', A = 4.00'). INSTALL 15" X 14' RCP (UIE = 5112.35', LIE = 5111.95') AND CONNECT TO DROP INLET AT "GV3" 26+58, 2.5' LT. (SEE SHEET DP14)	"GV3" 26+41
29	CONSTRUCT TYPE 2A DROP INLET, 10.1' LT. (GRATE ELEV. = 5115.04', H = 3.00', A = 4.00'). INSTALL 18" X 6' RCP (UIE = 5112.04', LIE = 5111.72') AND CONNECT TO DROP INLET AT "GV3" 26+58, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)	"GV3" 26+58
30	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5115.32', H = 3.70', A = 4.00'). INSTALL 18" X 14' RCP (UIE = 5111.62', LIE = 5110.92') AND CONNECT TO MANHOLE AT "GV3" 26+58, 14.9' RT. (SEE SHEET DP14)	"GV3" 26+58
31	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5115.35', H = 3.00', A = 4.00'). INSTALL 15" X 14' RCP (UIE = 5112.35', LIE = 5111.95') AND CONNECT TO DROP INLET AT "GV3" 26+58, 2.5' LT. (SEE SHEET DP14)	"GV3" 26+76
32	CONSTRUCT TYPE 2A DROP INLET, 26.9' RT. (GRATE ELEV. = 5114.56', H = 3.00', A = 4.00'). INSTALL 15" X 9' RCP (UIE = 5111.56', LIE = 5110.92') AND CONNECT TO MANHOLE AT "GV3" 26+58, 14.9' RT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)	"GV3" 26+58

DRAINAGE STRUCTURE LIST

616 1000	610 0585	610 0490	610 0480	610 0470	610 0460	610 0210	610 0200	610 0190	610 0170	610 0050	609 1040	609 1030
TYPE C-NV-4B FENCE	ARTICULATED CONCRETE BLOCK	RIPRAP BEDDING (CLASS 550)	RIPRAP BEDDING (CLASS 400)	RIPRAP BEDDING (CLASS 300)	RIPRAP BEDDING (CLASS 150)	RIPRAP (CLASS 550)	RIPRAP (CLASS 400)	RIPRAP (CLASS 300)	RIPRAP (CLASS 150)	GEOTEXTILE (CLASS 1)	STRUCTURAL STEEL GRATES	CASTINGS
LINFT	SQYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	CUYD	SQYD	POUND	POUND
												550
												299
												980
												550
												299
												980
												550
												299
												980
												550
												4
												78

NOTE NO.	DESCRIPTION	STATION TO STATION
33	CONSTRUCT TYPE 2 MODIFIED MANHOLE, 14.9' RT. (COVER ELEV. = 5115.67', H = 4.70'). INSTALL 30" X 119' RCP (UIE = 5110.97', LIE = 5109.79') AND CONNECT TO MANHOLE AT "GV3" 25+37, 15.7' RT. (SEE SHEET DP13, DP14)	"GV3" 26+58
34	CONSTRUCT TYPE 2A DROP INLET, 10.5' LT. (GRATE ELEV. = 5116.22', H = 3.00', A = 4.00'). INSTALL 18" X 6' RCP (UIE = 5113.22', LIE = 5113.17') AND CONNECT TO DROP INLET AT "GV3" 27+76, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)	"GV3" 27+76
35	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5116.57', H = 3.50', A = 4.00'). INSTALL 18" X 14' RCP (UIE = 5113.07', LIE = 5112.75') AND CONNECT TO MANHOLE AT "GV3" 27+76, 14.9' RT. (SEE SHEET DP14)	"GV3" 27+76
36	CONSTRUCT TYPE 2 MODIFIED MANHOLE, 14.9' RT. (COVER ELEV. = 5116.92', H = 4.93'). INSTALL 24" X 115' RCP (UIE = 5111.99', LIE = 5111.07') AND CONNECT TO MANHOLE AT GV3 26+58, 14.9' RT. (SEE SHEET DP13, DP14)	"GV3" 27+76
37	CONSTRUCT TYPE 2A DROP INLET, 26.8' RT. (GRATE ELEV. = 5115.83', H = 3.00', A = 4.00'). INSTALL 18" X 9' RCP (UIE = 5112.83', LIE = 5112.75') AND CONNECT TO MANHOLE AT "GV3" 27+76, 14.9' RT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)	"GV3" 27+76
38	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5121.64', H = 3.00', A = 4.00'). INSTALL 18" X 14' RCP (UIE = 5118.64', LIE = 5117.58') AND CONNECT TO MANHOLE AT "GV3" 29+23, 14.3' RT. (SEE SHEET DP14)	"GV3" 29+23
39	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 14.3' RT. (COVER ELEV. = 5121.98', H = 4.50'). INSTALL 24" X 143' RCP (UIE = 5117.48', LIE = 5112.09') AND CONNECT TO MANHOLE AT "GV3" 27+76, 14.9' RT. (SEE SHEET DP13, DP14)	"GV3" 29+23
40	CONSTRUCT MODIFIED RIPRAP DIKE FROM "XN" 772+76, 133.9' RT (DIKE ELEV. = 5075.30') TO "XN" 772+87, 116.3' RT (DIKE ELEV. = 5074.34') TO "XN" 772+89, 106.4' RT (DIKE ELEV. = 5074.00') TO "XN" 772+90, 102.5' RT (DIKE ELEV. = 5074.00') TO "XN" 772+92, 94.8' RT (DIKE ELEV. = 5074.41') TO "XN" 772+96, 88.5' RT (DIKE ELEV. = 5075.50'). (SEE SHEET DD1)	"XN" 772+76

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	DS33

DRAINAGE STRUCTURE LIST

609 0840	STORMWATER TREATMENT VAULT (TYPE A)
609 0400	TYPE 4 MANHOLE
609 0396	TYPE 3 MANHOLE (MODIFIED)
609 0390	TYPE 2 MANHOLE (MODIFIED)
609 0380	TYPE 1 MANHOLE (MODIFIED)
609 0290	CONNECT TO EXISTING MANHOLE
609 0220	ADJUST MANHOLE
608 0510	36-INCH METAL END SECTION (DOWNDRAIN)
608 0490	24-INCH METAL END SECTION (DOWNDRAIN)
608 0470	18-INCH METAL END SECTION (DOWNDRAIN)
608 0420	36-INCH DOWNDRAIN PIPE
608 0400	24-INCH DOWNDRAIN PIPE
608 0370	18-INCH DOWNDRAIN PIPE
608 0290	ANCHOR ASSEMBLY (36-INCH)
608 0270	ANCHOR ASSEMBLY (24-INCH)
608 0250	ANCHOR ASSEMBLY (18-INCH)
604 2420	18-INCH METAL END SECTION (SAFETY TYPE)
603 1120	48-INCH PRECAST END SECTION
603 1090	36-INCH PRECAST END SECTION
603 1070	30-INCH PRECAST END SECTION
603 1050	24-INCH PRECAST END SECTION
603 1030	18-INCH PRECAST END SECTION
603 1020	15-INCH PRECAST END SECTION
603 0670	23-INCH X 14-INCH OVAL REINFORCED CONCRETE PIPE, CLASS HE III
603 0460	48-INCH REINFORCED CONCRETE PIPE, CLASS V
603 0350	36-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0290	30-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0230	24-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0170	18-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0140	15-INCH REINFORCED CONCRETE PIPE, CLASS III
603 0110	12-INCH REINFORCED CONCRETE PIPE, CLASS III
600 0100	TRENCH DRAIN
506 0820	PEDESTRIAN RAIL, TYPE X
505 0100	REINFORCING STEEL
502 0881	CLASS DA CONCRETE, MODIFIED (MAJOR) (STRUCTURES)
502 0750	CLASS AA CONCRETE (MINOR)
402 0110	PLANTMIX PAVED DITCHES
402 0100	PLANTMIXING MISCELLANEOUS AREAS
302 0140	TYPE 1 CLASS B AGGREGATE BASE
207 0150	SLURRY CEMENT BACKFILL
207 0110	GRANULAR BACKFILL
206 0110	STRUCTURE EXCAVATION
203 0160	DRAINAGE EXCAVATION
202 1240	REMOVAL OF CORRUGATED METAL PIPE DOWNDRAIN
202 1231	REMOVAL OF SLOTTED DRAIN
202 1230	REMOVAL OF STORM DRAIN PIPE
202 1040	REMOVAL OF DROP INLET
202 1035	REMOVAL OF MANHOLE
202 0585	REMOVAL OF FENCE
202 0450	REMOVE END SECTION

NOTE NO.	DESCRIPTION	STATION TO STATION
10	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5129.78', H = 4.00', A = 4.00'). INSTALL 24" X 154' RCP (UIE = 5125.78', LIE = 5117.58') AND CONNECT TO MANHOLE AT "GV3" 29+23, 14.3' RT. (SEE SHEET DP13, DP14)	"GV3" 30+78
11	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 40.3' RT. (GRATE ELEV. = 5154.05', H = 4.00', A = 3.00'). INSTALL 18" CMP DOWN DRAIN TO "GV3" 31+93, 11.5' LT (IE = 5135.33'). CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET.	"XN" 786+68
12	CONSTRUCT TYPE 2A DROP INLET, 10.5' LT. (GRATE ELEV. = 5140.56', H = 3.62', A = 4.00'). INSTALL 18" X 6' RCP (UIE = 5136.94', LIE = 5136.77') AND CONNECT TO DROP INLET AT "GV3" 32+89, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)	"GV3" 32+89
13	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5140.91', H = 4.24', A = 4.00'). INSTALL 18" X 207' RCP (UIE = 5136.67', LIE = 5125.88') AND CONNECT TO DROP INLET AT "GV3" 30+78, 2.5' LT. (SEE SHEET DP13, DP14)	"GV3" 32+89
14	CONSTRUCT TYPE 2A DROP INLET, 26.9' RT. (GRATE ELEV. = 5139.90', H = 3.00', A = 4.00'). INSTALL 18" X 27' RCP (UIE = 5136.90', LIE = 5136.77') AND CONNECT TO DROP INLET AT "GV3" 32+89, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)	"GV3" 32+89
15	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 34.7' RT. (GRATE ELEV. = 5164.16', H = 4.00', A = 2.50'). INSTALL 18" CMP DOWN DRAIN TO "GV3" 34+94, 11.5' LT (IE = 5151.26').	"XN1" 789+68
16	CONSTRUCT TYPE 2A DROP INLET, 10.5' LT. (GRATE ELEV. = 5151.26', H = 3.00', A = 4.00'). INSTALL 18" X 6' RCP (UIE = 5148.26', LIE = 5147.98') AND CONNECT TO DROP INLET AT "GV3" 34+94, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP15)	"GV3" 34+94
17	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5151.64', H = 3.76', A = 4.00'). INSTALL 18" X 201' RCP (UIE = 5147.88', LIE = 5136.77') AND CONNECT TO DROP INLET AT "GV3" 32+89, 2.5' LT. (SEE SHEET DP13, DP15)	"GV3" 34+94

DRAINAGE STRUCTURE LIST

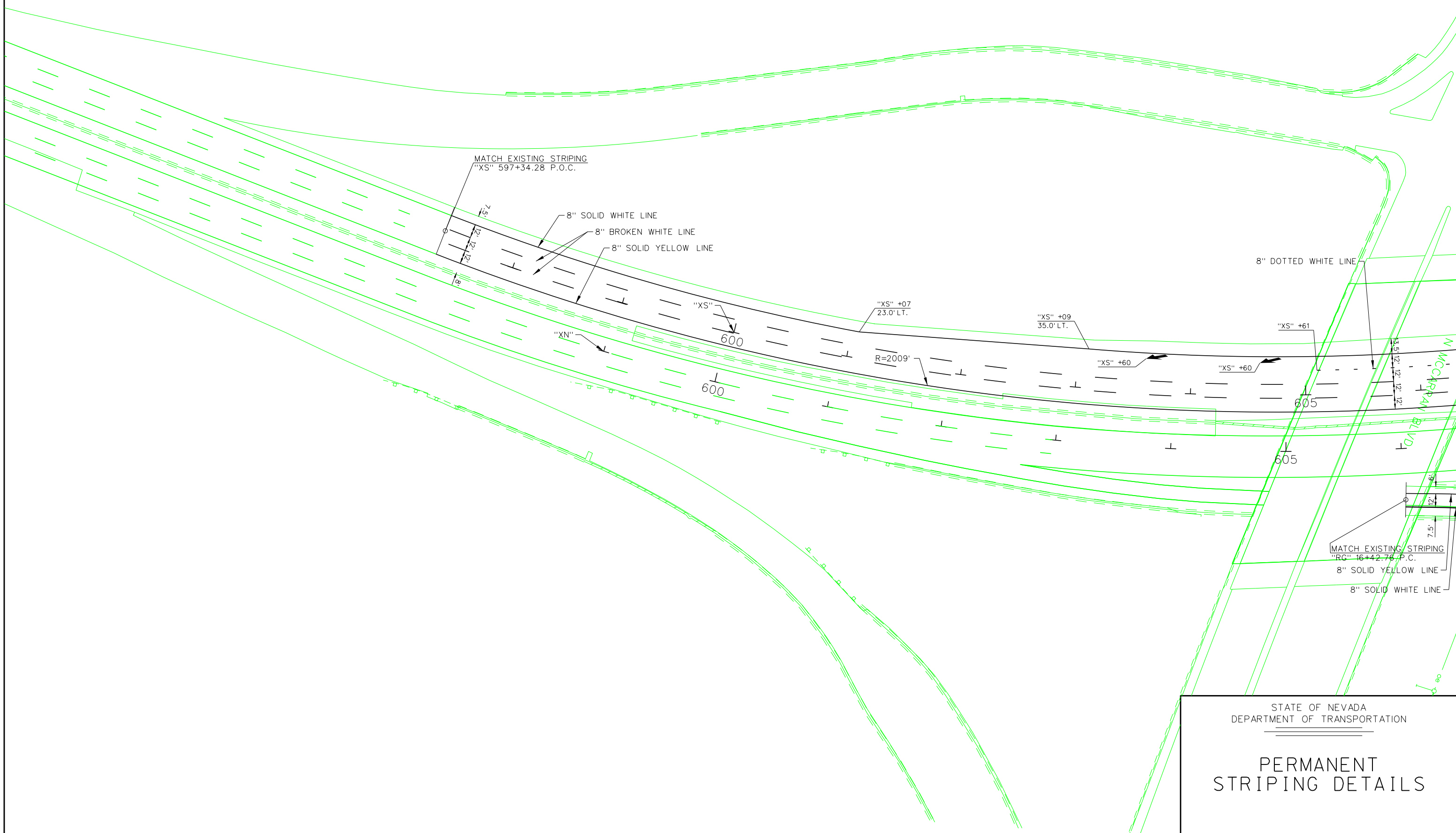
LINE NO.	DESCRIPTION	STATION TO STATION	
616 1000	TYPE C-NV-4B FENCE		
610 0585	ARTICULATED CONCRETE BLOCK		
610 0490	RIPRAP BEDDING (CLASS 550)		
610 0480	RIPRAP BEDDING (CLASS 400)		
610 0470	RIPRAP BEDDING (CLASS 300)		
610 0460	RIPRAP BEDDING (CLASS 150)		
610 0210	RIPRAP (CLASS 550)		
610 0200	RIPRAP (CLASS 400)		
610 0190	RIPRAP (CLASS 300)		
610 0170	RIPRAP (CLASS 150)		
610 0050	GEOTEXTILE (CLASS 1)		
609 1040	STRUCTURAL STEEL GRATES		
609 1030	CASTINGS		
	NOTE NO.		
	DESCRIPTION		
	980	10 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5129.78', H = 4.00', A = 4.00'). INSTALL 24" X 154' RCP (UIE = 5125.78', LIE = 5117.58') AND CONNECT TO MANHOLE AT "GV3" 29+23, 14.3' RT. (SEE SHEET DP13, DP14)	"GV3" 30+78
	956	11 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 40.3' RT. (GRATE ELEV. = 5154.05', H = 4.00', A = 3.00'). INSTALL 18" CMP DOWN DRAIN TO "GV3" 31+93, 11.5' LT (IE = 5135.33'). CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET.	"XN" 786+68
	299	12 CONSTRUCT TYPE 2A DROP INLET, 10.5' LT. (GRATE ELEV. = 5140.56', H = 3.62', A = 4.00'). INSTALL 18" X 6' RCP (UIE = 5136.94', LIE = 5136.77') AND CONNECT TO DROP INLET AT "GV3" 32+89, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)	"GV3" 32+89
	980	13 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5140.91', H = 4.24', A = 4.00'). INSTALL 18" X 207' RCP (UIE = 5136.67', LIE = 5125.88') AND CONNECT TO DROP INLET AT "GV3" 30+78, 2.5' LT. (SEE SHEET DP13, DP14)	"GV3" 32+89
	299	14 CONSTRUCT TYPE 2A DROP INLET, 26.9' RT. (GRATE ELEV. = 5139.90', H = 3.00', A = 4.00'). INSTALL 18" X 27' RCP (UIE = 5136.90', LIE = 5136.77') AND CONNECT TO DROP INLET AT "GV3" 32+89, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP14)	"GV3" 32+89
	842	15 CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 34.7' RT. (GRATE ELEV. = 5164.16', H = 4.00', A = 2.50'). INSTALL 18" CMP DOWN DRAIN TO "GV3" 34+94, 11.5' LT (IE = 5151.26').	"XN1" 789+68
	299	16 CONSTRUCT TYPE 2A DROP INLET, 10.5' LT. (GRATE ELEV. = 5151.26', H = 3.00', A = 4.00'). INSTALL 18" X 6' RCP (UIE = 5148.26', LIE = 5147.98') AND CONNECT TO DROP INLET AT "GV3" 34+94, 2.5' LT. ALIGN DROP INLET "A" TO BE PARALLEL WITH ROAD ALIGNMENT. (SEE SHEET DP15)	"GV3" 34+94
	980	17 CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE, L = 3'), 2.5' LT. (GRATE ELEV. = 5151.64', H = 3.76', A = 4.00'). INSTALL 18" X 201' RCP (UIE = 5147.88', LIE = 5136.77') AND CONNECT TO DROP INLET AT "GV3" 32+89, 2.5' LT. (SEE SHEET DP13, DP15)	"GV3" 34+94

DRAINAGE STRUCTURE LIST

NOTE NO.	DESCRIPTION	STATION TO STATION
27	CONSTRUCT TYPE 2 DROP INLET (DOUBLE GRATE), 20.4' RT. (GRATE ELEV. = 5187.89', H = 3.50', A = 2.50'). INSTALL 18" X 103' RCP (UIE = 5184.39', LIE = 5181.13') AND CONNECT TO DROP INLET AT "GV3" 42+05, 17.0' RT. (SEE SHEET DP13)	"XN1" 798+22
28	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 30.0' LT. (COVER ELEV. = 5155.61', H = 3.30'). INSTALL 15" X 66' RCP (UIE = 5152.31', LIE = 5151.16') AND CONNECT TO DROP INLET AT "XN1" 786+68, 40.3' RT. CONNECT RETAINING WALL DRAIN PIPE TO MANHOLE. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.	"XN1" 786+67
29	CONSTRUCT TYPE 1 MODIFIED MANHOLE, 30.0' LT. (COVER ELEV. = 5165.16', H = 3.30'). INSTALL 15" X 60' RCP (UIE = 5161.86', LIE = 5161.25') AND CONNECT TO DROP INLET AT "XN1" 789+68, 34.7' RT. CONNECT RETAINING WALL DRAIN PIPE TO MANHOLE. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.	"XN1" 789+67
SHEET D15		
1	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 19.8' RT. (GRATE ELEV. = 5190.22', H = 3.00', A = 2.50'). INSTALL 18" X 16' RCP (UIE = 5187.22', LIE = 5186.24') TO "XN1" 807+78, 38.2' RT. INSTALL PRECAST END SECTION AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON (A = 10'). (SEE SHEET DP15)	"XN1" 807+78
2	CONSTRUCT TYPE 2 DROP INLET (TRIPLE GRATE), 19.8' RT. (GRATE ELEV. = 5189.94', H = 4.00', A = 3.00'). INSTALL 18" X 13' RCP (UIE = 5185.94', LIE = 5185.35') TO "XN1" 808+07, 35.5' RT. INSTALL PRECAST END SECTION AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON (A = 13'). (SEE SHEET DP15)	"XN1" 808+07
Total		

NOTE - MERGE ARROWS SHALL BE THERMOPLASTIC.

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	ST1

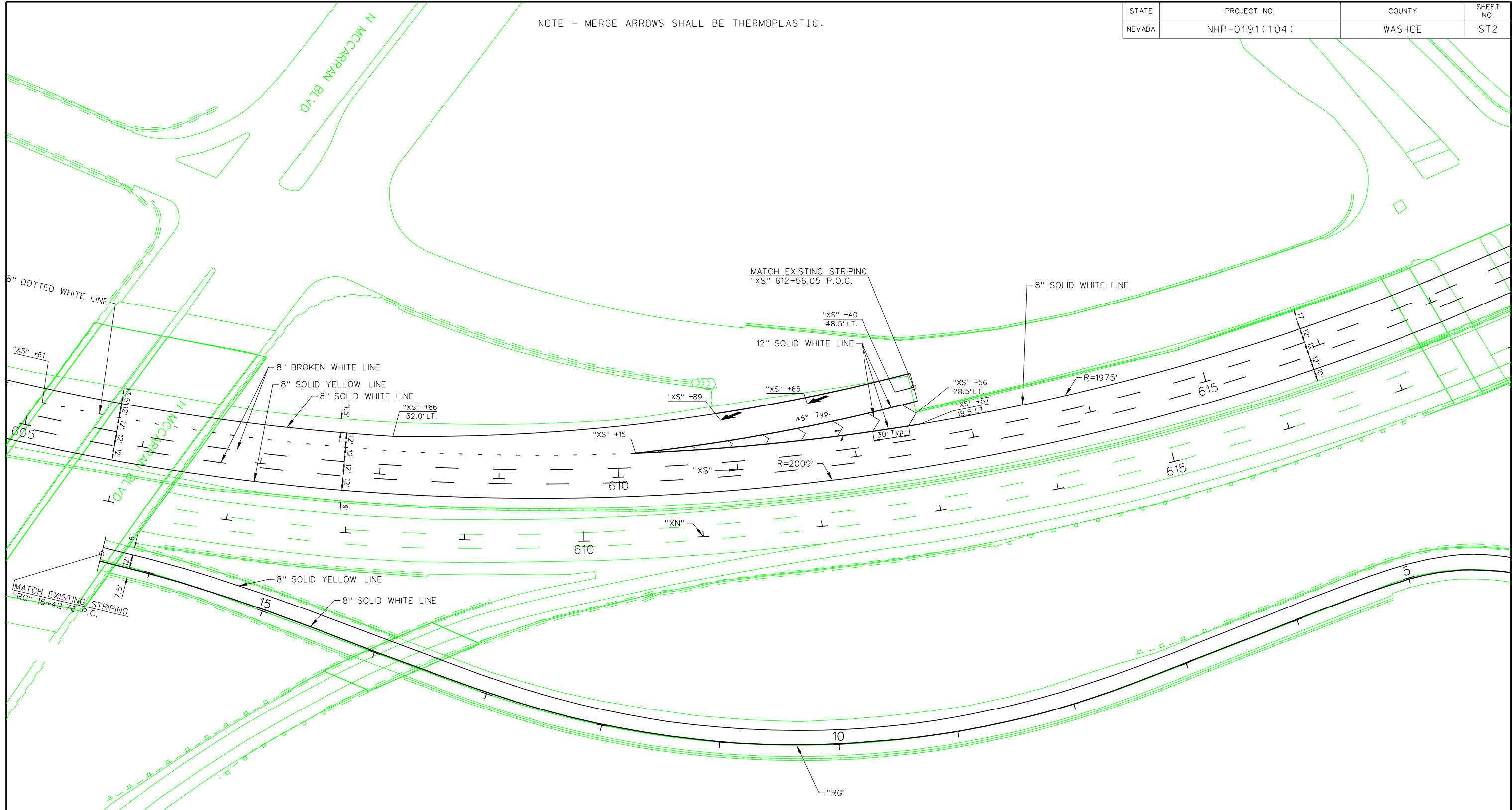


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

PERMANENT
STRIPING DETAILS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ST2

NOTE - MERGE ARROWS SHALL BE THERMOPLASTIC.



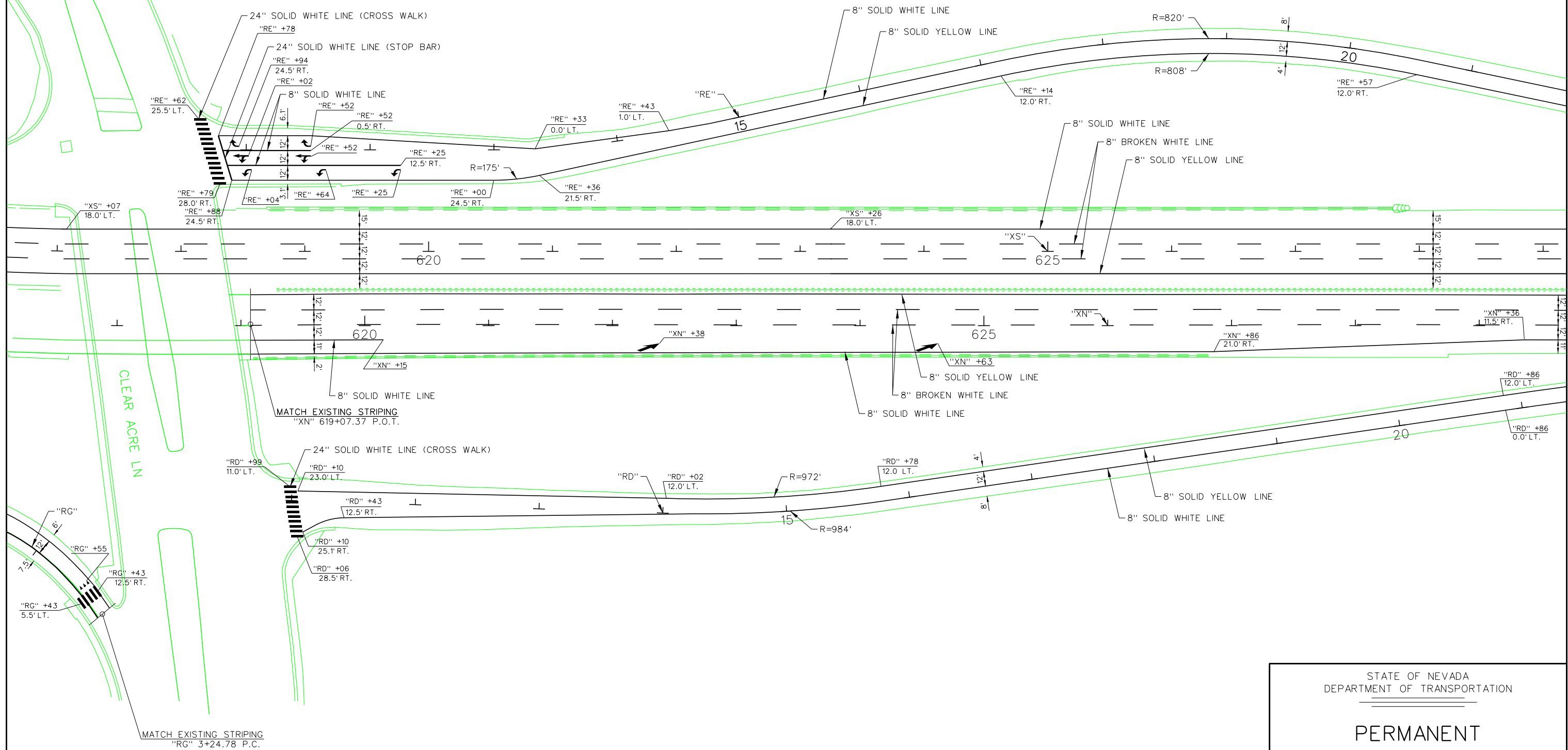
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

PERMANENT
STRIPING DETAILS

NOTE - ARROWS, CROSS WALKS, STOP BARS, AND YIELD BARS SHALL BE THERMOPLASTIC.

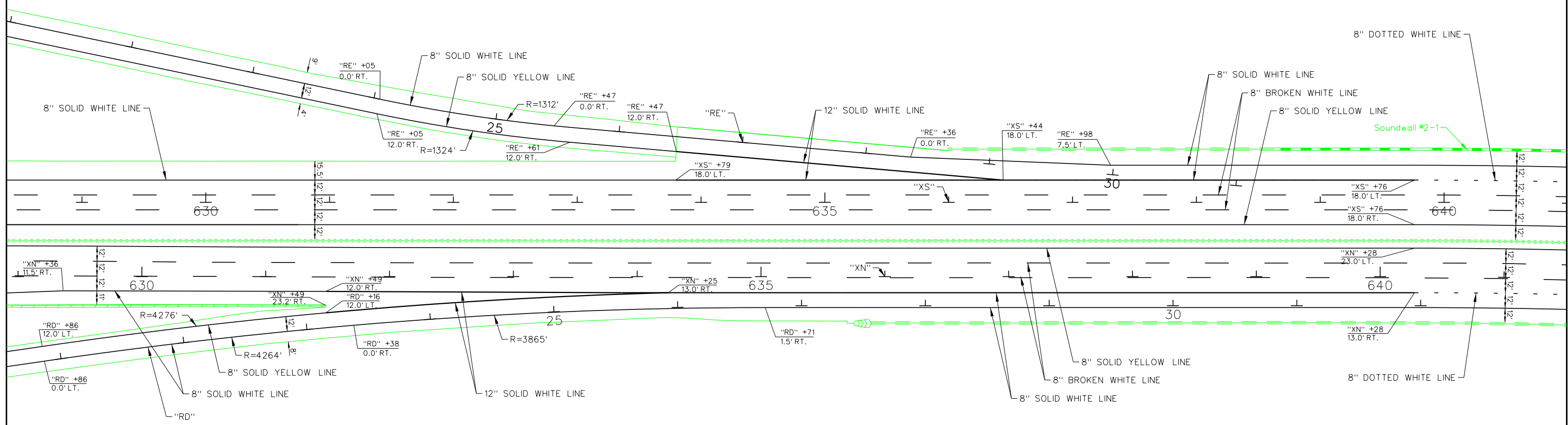
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ST3

NOTE - THE LOCATIONS OF CROSSWALKS AND STOP BARS ARE CONTROLLED BY THE ASSOCIATED CURB RAMPS PER STANDARD PLAN SHEET ST-7 UNLESS INDICATED OTHERWISE. REFER TO THE STRUCTURE LIST FOR EXACT LOCATIONS OF CURB RAMPS.



STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 PERMANENT
 STRIPING DETAILS

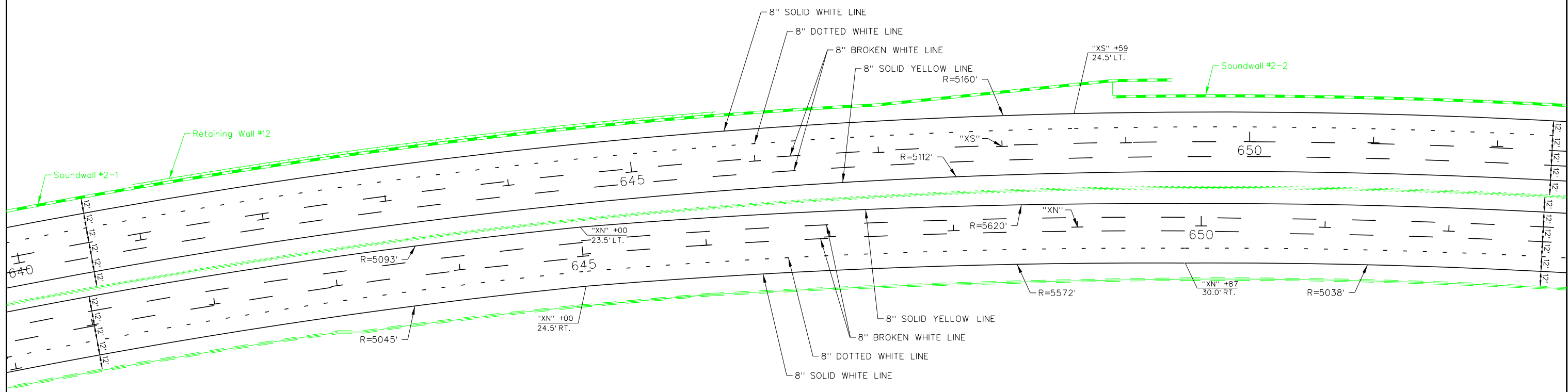
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ST4



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**PERMANENT
STRIPING DETAILS**

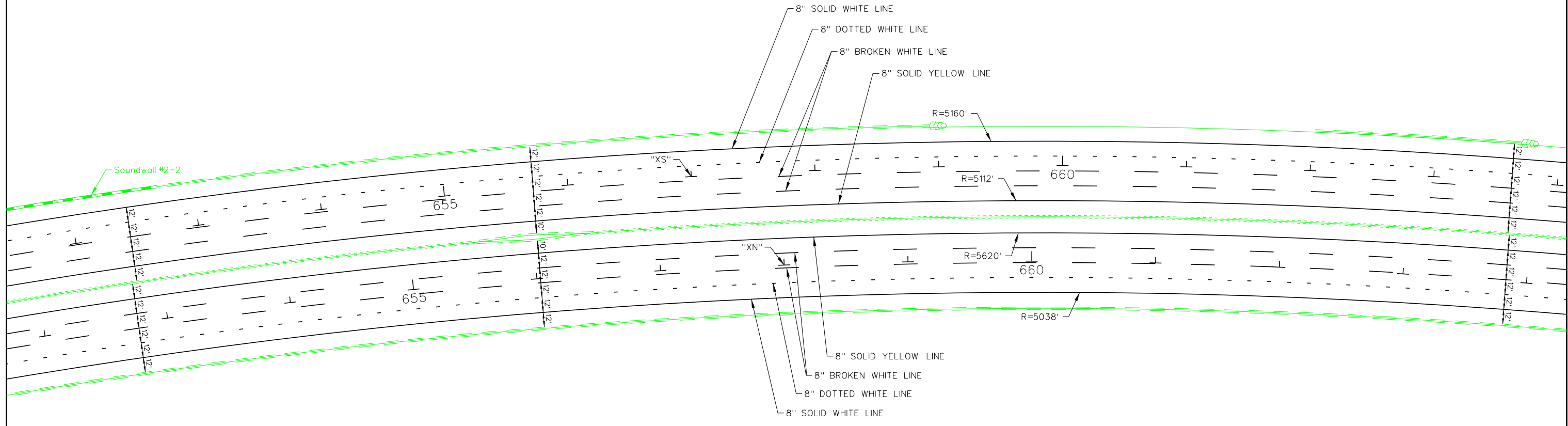
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ST5



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

PERMANENT
STRIPING DETAILS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ST6

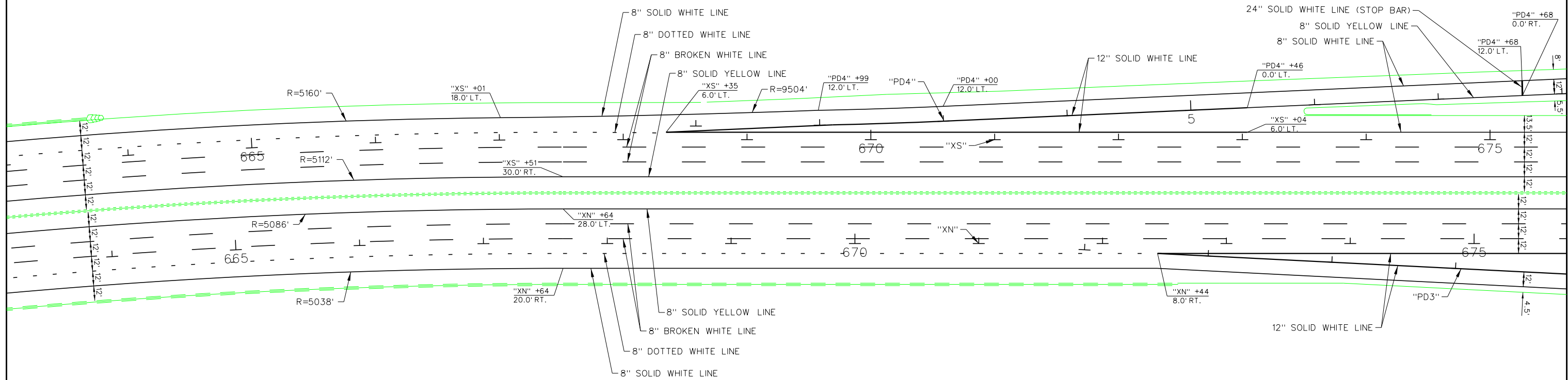


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

PERMANENT
STRIPING DETAILS

NOTE - STOP BARS SHALL BE THERMOPLASTIC.

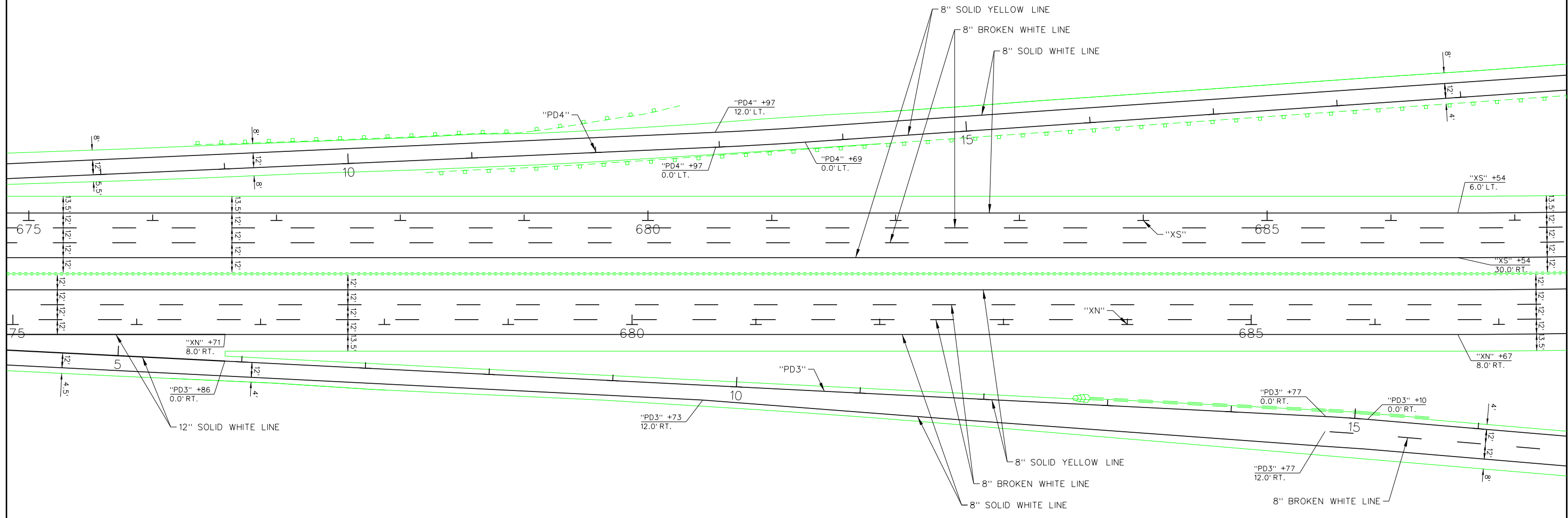
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ST7



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

PERMANENT
STRIPING DETAILS

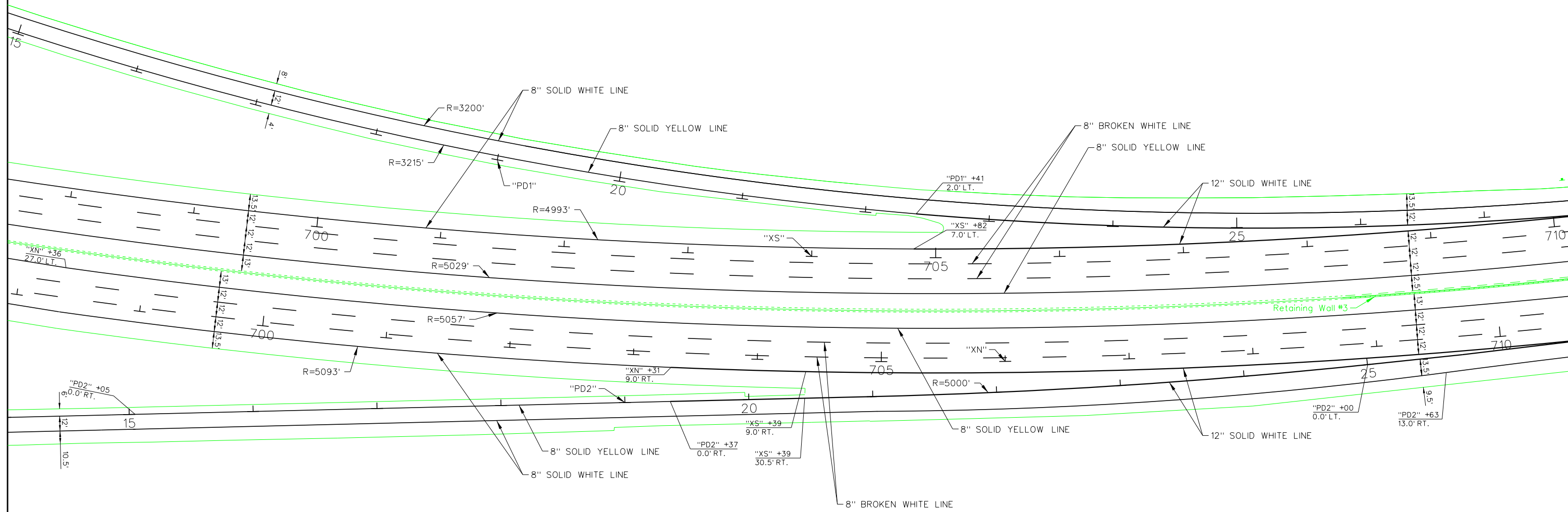
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ST8



STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

PERMANENT
 STRIPING DETAILS

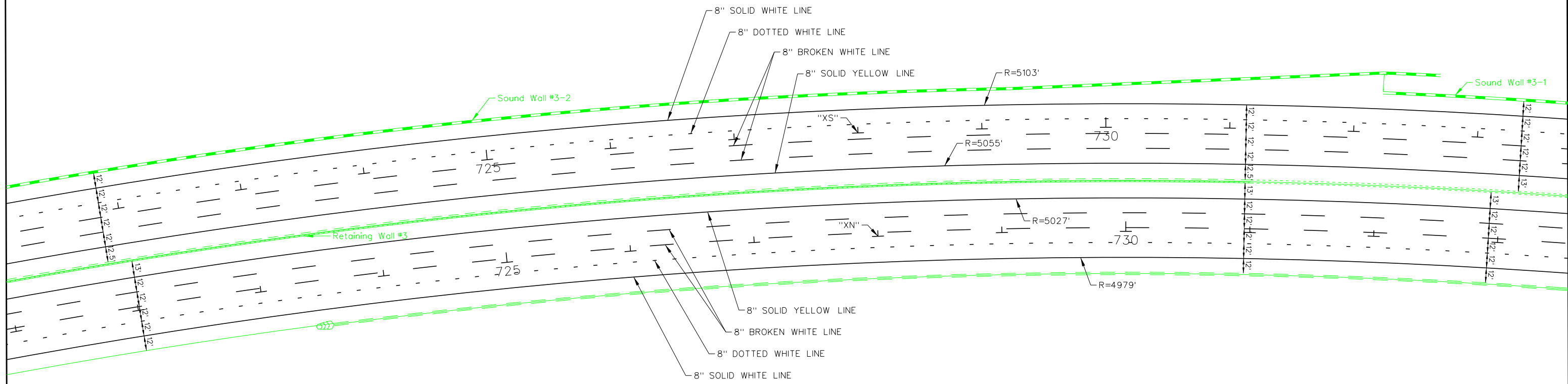
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	ST12



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**PERMANENT
STRIPING DETAILS**

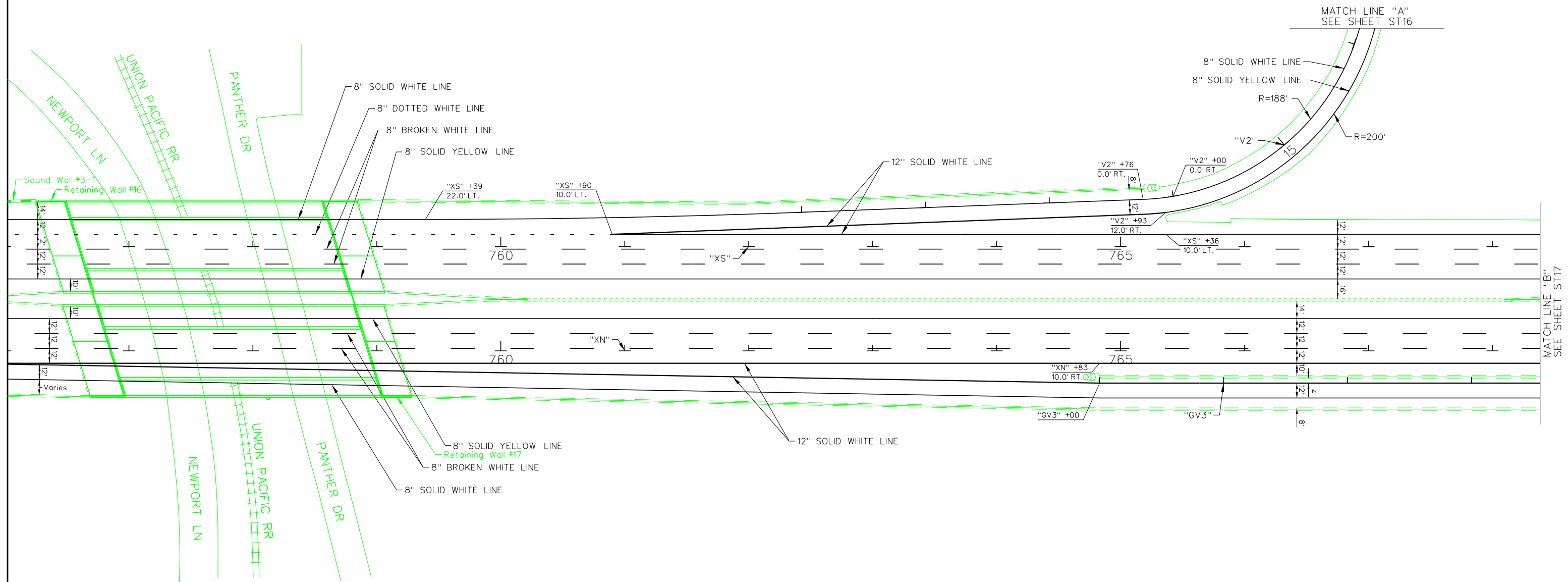
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ST14



STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

PERMANENT
 STRIPING DETAILS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	ST17

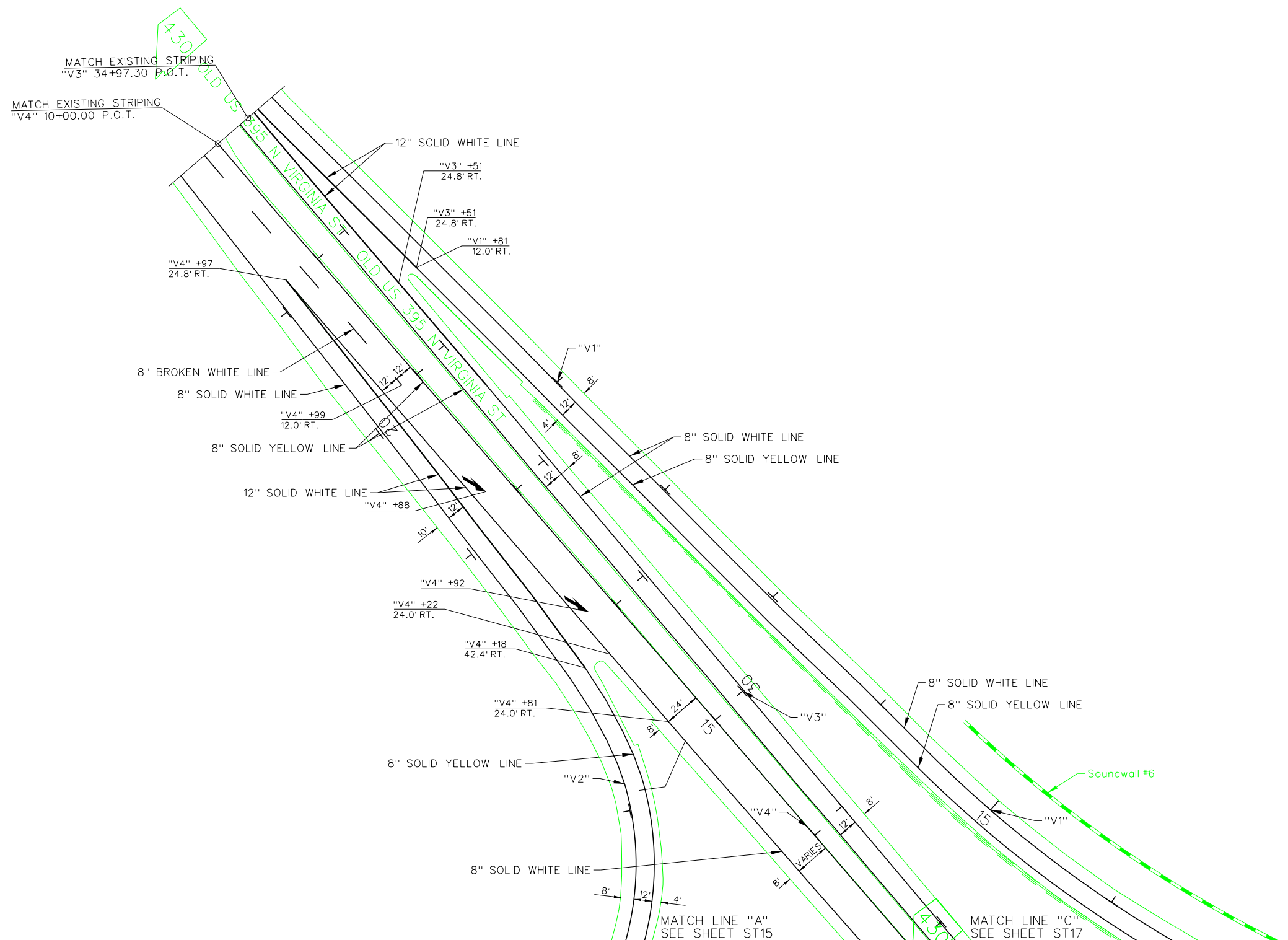


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**PERMANENT
STRIPING DETAILS**

NOTE - ARROWS SHALL BE THERMOPLASTIC.

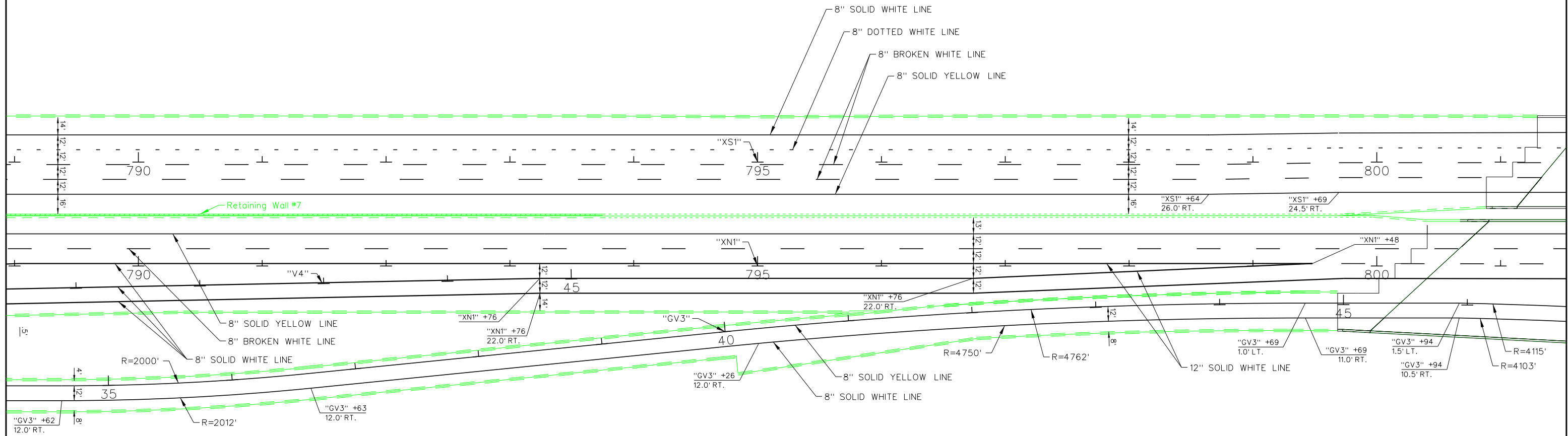
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	ST18



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

PERMANENT
STRIPING DETAILS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	ST21

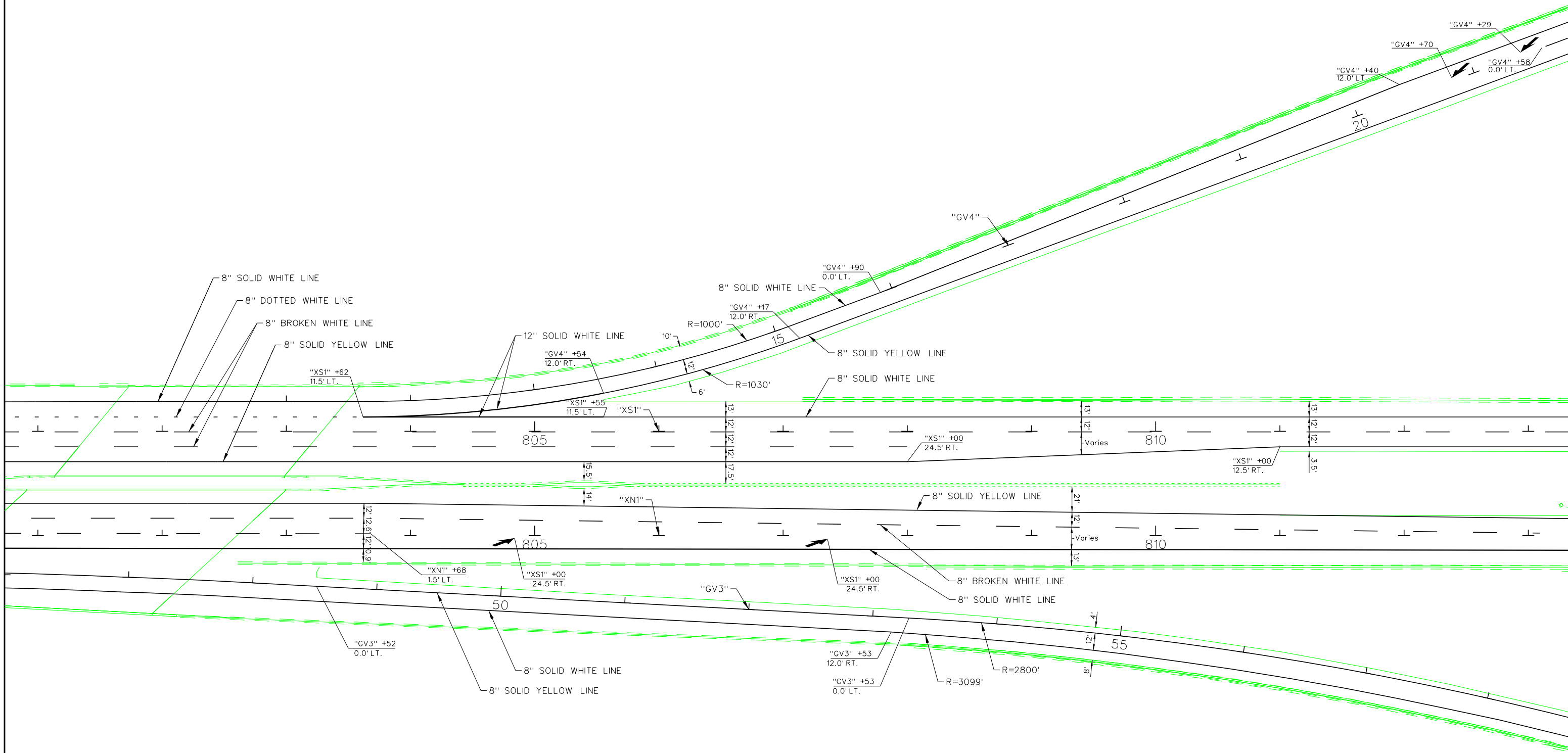


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**PERMANENT
STRIPING DETAILS**

NOTE - ARROWS SHALL BE THERMOPLASTIC.

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	ST22

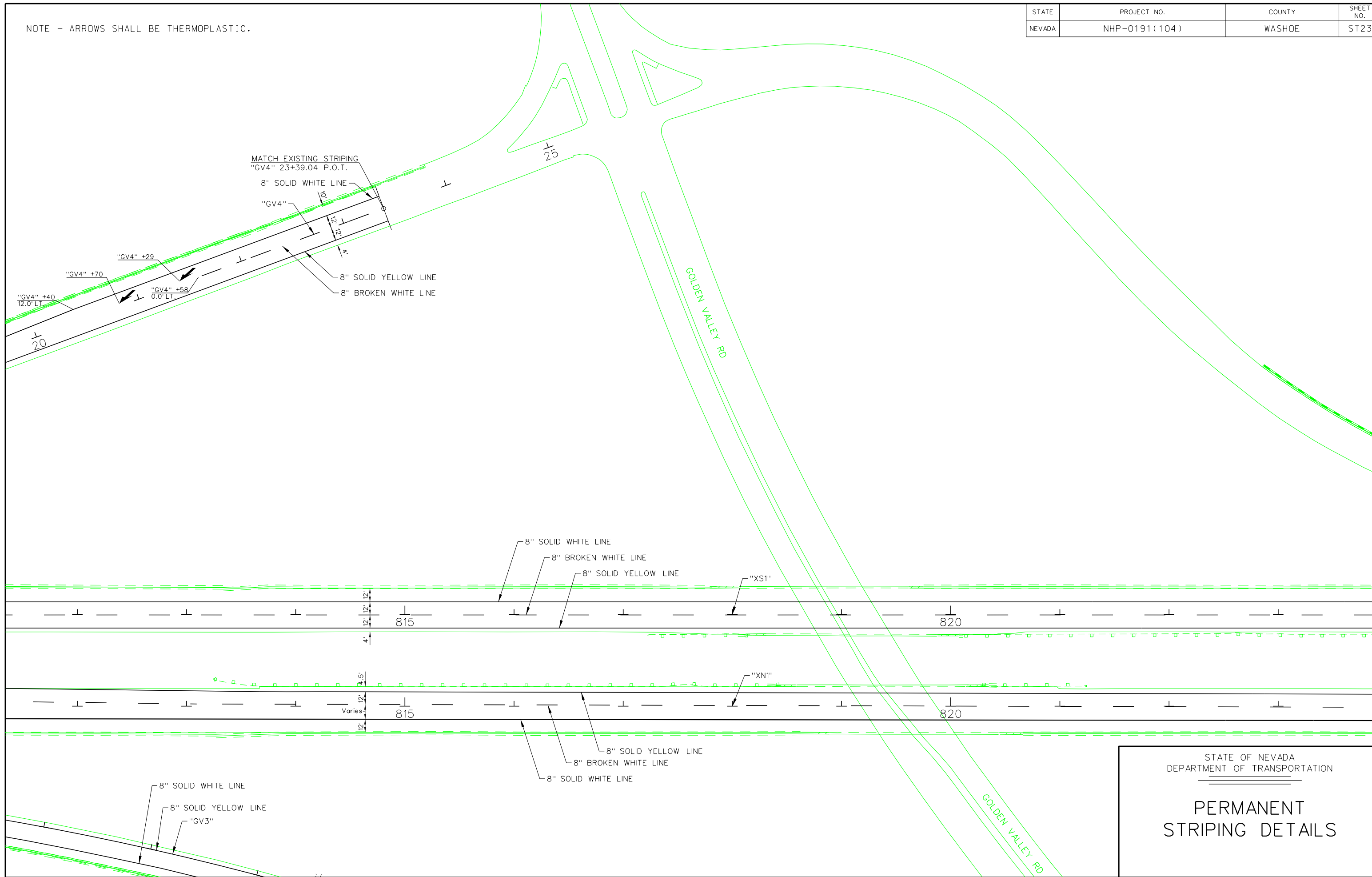


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

PERMANENT
STRIPING DETAILS

NOTE - ARROWS SHALL BE THERMOPLASTIC.

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	ST23

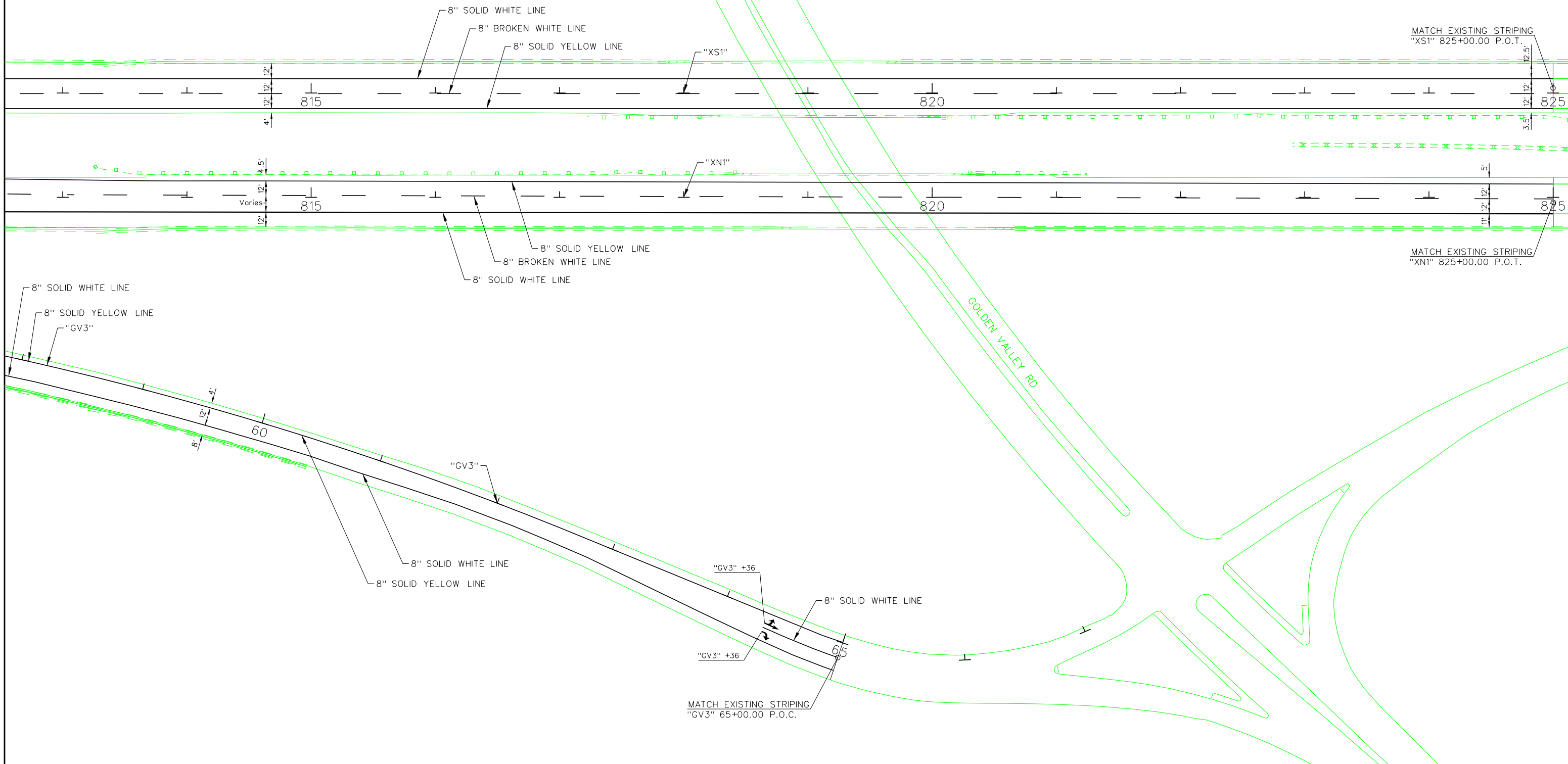


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

PERMANENT
STRIPING DETAILS

NOTE - ARROWS SHALL BE THERMOPLASTIC.

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	ST24



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

PERMANENT
STRIPING DETAILS

SUMMARY OF CONSTRUCTION SIGNS AND DEVICES

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	TC1

SIGN NO.	MESSAGE	PANEL SIZE (IN x IN)	SQFT (EA)	PHASE 1	PHASE 2			PHASE 3		NO. OF SIGNS	SQ.FT. TOTAL
				STAGE 1	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2		
E5-2A	EXIT CLOSED	48 X 36	12.0	2		2				2	24.0
M4-8A	END DETOUR	24 X 18	3.0	7		9	2		2	9	27.0
M4-9AL	BIKE PEDESTRIAN DETOUR (LEFT)	30 X 24	5.0					2		2	10.0
M4-9AR	BIKE PEDESTRIAN DETOUR (RIGHT)	30 X 24	5.0					2		2	10.0
M4-10R	DETOUR (RIGHT ARROW SYMBOL)	48 X 18	6.0	14		23				23	138.0
M4-10L	DETOUR (LEFT ARROW SYMBOL)	48 X 18	6.0	15		15				15	90.0
R1-2	YIELD	48 X 48	16.0			6		6		6	96.0
R2-1	SPEED LIMIT 55	36 X 48	12.0	2		2				2	24.0
R2-1K	SPEED LIMIT 65	36 X 48	12.0	4	2	4	2	2	2	4	48.0
R3-1R	TURN MOVEMENT PROHIBITED (RIGHT)	24 X 24	4.0	2		3				3	12.0
R3-1L	TURN MOVEMENT PROHIBITED (LEFT)	24 X 24	4.0	2		2				2	8.0
R4-9	STAY IN LANE	36 X 48	12.0					2		2	24.0
R9-3	NO PEDESTRIAN CROSSING	36 X 18	4.5					4		4	18.0
R9-9	SIDEWALK CLOSED	24 X 12	2.0					3		3	6.0
R9-11AL	SIDEWALK CLOSED CROSS HERE (LEFT)	24 X 18	3.0					1		1	3.0
R9-11AR	SIDEWALK CLOSED CROSS HERE (RIGHT)	24 X 18	3.0					2		2	6.0
R11-2	ROAD CLOSED	48 X 30	10.0	3		3	1		1	3	30.0
R11-4	ROAD CLOSED AHEAD	60 X 30	12.5	5		5				5	62.5
R11-4	ROAD CLOSED TO THRU TRAFFIC	60 X 30	12.5	2		2				2	25.0
W3-5A	XX SPEED ZONE AHEAD	48 X 48	16.0	4	2	4		2	2	4	64.0
W3-2	YIELD AHEAD (SYMBOL)	48 X 48	16.0			6		6		6	96.0
W4-1R	MERGE (RIGHT)	48 X 48	16.0	12	4	6		4		12	192.0
W4-1L	MERGE (LEFT)	48 X 48	16.0				3	1		3	48.0
W4-2L	LANE ENDS (LEFT)	48 X 48	16.0	6		2	6		2	6	96.0
W4-2R	LANE ENDS (RIGHT)	48 X 48	16.0			4				4	64.0
W5-4	RAMP NARROWS	48 X 48	16.0			8		12		12	192.0
W12-1	CENTER LANE CLOSED W/ ARROWS	48 X 48	16.0		2					2	32.0
W20-1	ROAD WORK AHEAD	48 X 48	16.0	26	12	20	6	8	8	26	416.0
W20-4	ONE LANE TRAFFIC AHEAD	48 X 48	16.0					3		3	48.0
W20-2	DETOUR AHEAD	48 X 48	16.0	13		13	2		2	13	208.0
W20-7A	FLAGGER SYMBOL	48 X 48	16.0						11	11	176.0
WN20-1	DETOUR (UP ARROW SYMBOL)	48 X 48	16.0	8		22	4		6	22	352.0
W20-5L	LEFT LANE CLOSED AHEAD	48 X 48	16.0	6		4			2	6	96.0
W20-5AL	LEFT TWO LANES CLOSED AHEAD	48 X 48	16.0				2			2	32.0
W20-5R	RIGHT LANE CLOSED AHEAD	48 X 48	16.0			2				2	32.0
W20-5C	CENTER LANE CLOSED AHEAD	48 X 48	16.0		2					2	32.0
W20-5R	RIGHT TWO LANE CLOSED AHEAD	48 X 48	16.0							0	0.0
W24-1AL	DOUBLE REVERSE CURVE (2 LANES)	48 X 48	16.0					2		2	32.0
W21-5	SHOULDER WORK	48 X 48	16.0					2		2	32.0
RNV28-4	DOUBLE PENALTIES IN WORK ZONE	48 X 48	16.0	6	2	6	2	2	6	6	96.0
RNV31-2	RAMP CLOSED	48 X 36	12.0			2				2	24.0
WNV16-2	BEGIN WORK ZONE	48 X 24	8.0	6	2	6	2	2	6	6	48.0
WNV16-3	END WORK ZONE	48 X 24	8.0	26	8	20	4	11	14	26	208.0
WNV16-4	30 MINUTE DELAY POSSIBLE	48 X 36	12.0						4	4	48.0
WNV19-2L	BUSINESS ACCESS (LEFT ARROW)	42 X 42	12.3						1	1	12.3
WNV19-2R	BUSINESS ACCESS (RIGHT ARROW)	42 X 42	12.3						1	1	12.3
WNV25-1	RAMP EXIT	42 X 54	15.8	10	2	6		6		10	157.5
WNV29-1	PREPARE TO STOP	48 X 48	16.0						9	9	144.0
										297	3651.5

RENT TRAFFIC CONTROL DEVICES		PHASE 1	PHASE 2			PHASE 3		USE TOTAL
UNIT OF WORK	ITEM DESCRIPTION	STAGE 1	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	
625-0230	RENT CHANGEABLE MESSAGE SIGN	EACH	18		18		18	18
625-0280	RENT ARROW BOARD (TYPE C) 55 mph or more	EACH	3	1	4	3		4
625-0130	RENT CONSTRUCTION BARRICADES (TYPE IIIB)	EACH	4		8	3	11	2
625-0310	RENT TRAFFIC DRUMS	EACH	96	65	705	155	770	80
625-0360	RENT TEMPORARY IMPACT ATTENUATOR	EACH	2	1	8			8
625-0510	RENT PORTABLE PRECAST CONCRETE BARRIER RAIL	LINFT	39615	9572	24473	12	20633	45
625-0520	RENT TEMPORARY TRAFFIC SCREEN	LINFT	39615		24473		20633	
625-0560	RENT PORTABLE TRANSVERSE RUMBLE STRIPS	EACH	6		6		6	6
625-0600	RENT DRIVER FEEDBACK SIGN	EACH	6		6		6	6

NOTES:

- QUANTITIES SHOWN ARE APPROXIMATED AND ARE SUBJECT TO INCREASE OR DECREASE. ADDITIONAL SIGNS NOT LISTED, MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
- TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE M.U.T.C.D. 2009 AND NEVADA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION 2010 VERSION.
- REMOVE, RELOCATE AND REPLACE EXISTING EXIT SIGNS AS NEEDED. SHALL BE DONE AT NO DIRECT PAYMENT.
- PHASES AND STAGES DO NOT NEED TO BE CONSTRUCTED IN SEQUENCE EXCEPT AS NOTED IN 108.04 OF THE SPECIAL PROVISIONS.

PROPOSED TRAFFIC CONTROL SEQUENCE:

PHASE 1 -
 STAGE 1 - INSIDE BRIDGE WORK & WIDENING NB & SB (BASED OF BRIDGE PROPOSAL)
 CONCURRENT WORK - CLOSE NEWPORT LN UNDER G-1092 NEAR UPRR DURING BRIDGE WORK W/ DETOUR LEAVING PANTHER OPEN. THEN CLOSE PANTHER DR UNDER G-1092 NEAR UPRR DURING BRIDGE WORK W/ DETOUR LEAVING NEWPORT OPEN.
 CONCURRENT WORK - AT I-1093 VIRGINIA INTERCHANGE, CLOSE NB ON RAMP (BRIDGE WORK) , CLOSE S. VIRGINIA OFF RAMP HEADED NB (BRIDGE WORK) & CONSTRUCT BRAIDED RAMP


PHASE 2 -
 STAGE 1 - PORTION OF NB LANES (APROX. STA 618 +/- TO 662 +/-) TO TIGHT TO INCLUDE IN PHASE 2, STAGE 2
 STAGE 2 - OUTSIDE OF NB LANES (CLOSE N GOLDEN VALLEY OFF RAMP W/ DETOUR)
 CONCURRENT WORK - NB & SB ON STRUCTURES G-1092 & I-1093 (DETOURS FOR UNDER STRUCTURES WITH GOLDEN VALLEY TO REMAIN OPEN DURING THIS WORK)
 CONCURRENT WORK - RAMP "PD3" RECONSTRUCT DOES NOT MAKE 10' LN ON ONE SIDE (PM WORK OR SHORT CLOSURE), REST OF RAMPS WORK ON ONE SIDE WHILE ONE SIDE REMAINS OPEN
 STAGE 3 - REMAINING PORTION OF NB LANES (APROX. STA 808+25 +/- TO 811.00 +/-) & STA 811+00 TO 825+00 STRIPE ONLY. CLOSE THESE SECTIONS, USED OFF RAMP/ON RAMP AS DETOUR FOR NIGHT WORK ONLY (PROVIDED NEW RAIL IS NOT INSTALLED ON BRAIDED RAMP)

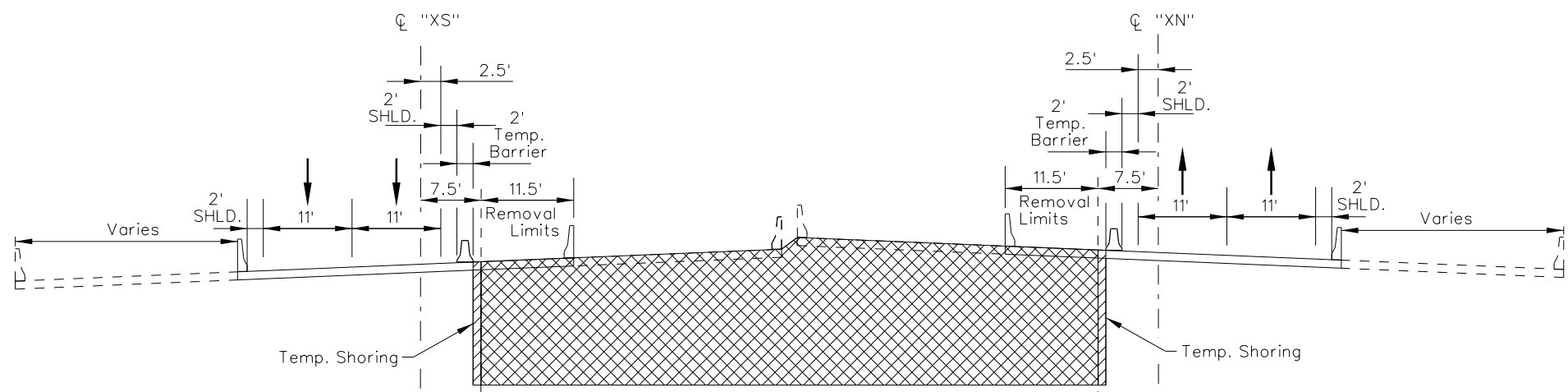
PHASE 3 -
 STAGE 1 - OUTSIDE OF SB LANES
 CONCURRENT WORK - RAMP WORK ON ONE SIDE WHILE ONE SIDE REMAINS OPEN
 CONCURRENT WORK - ALL SIDEWALK, ADA WORK AT PARR
 STAGE 2 - REMAINING PORTION OF SB LANES (APROX. STA 804+63 +/- TO 811.00 +/-) & STA 811+00 TO 825+00 STRIPE ONLY. CLOSE THESE SECTIONS, USED OFF RAMP/ON RAMP AS DETOUR FOR NIGHT WORK ONLY
 CONCURRENT WORK - DOWN TO ONE LANE WITH FLAGGER ON PARR AND THEN FLIP TO WORK ON REMAINING LANE

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

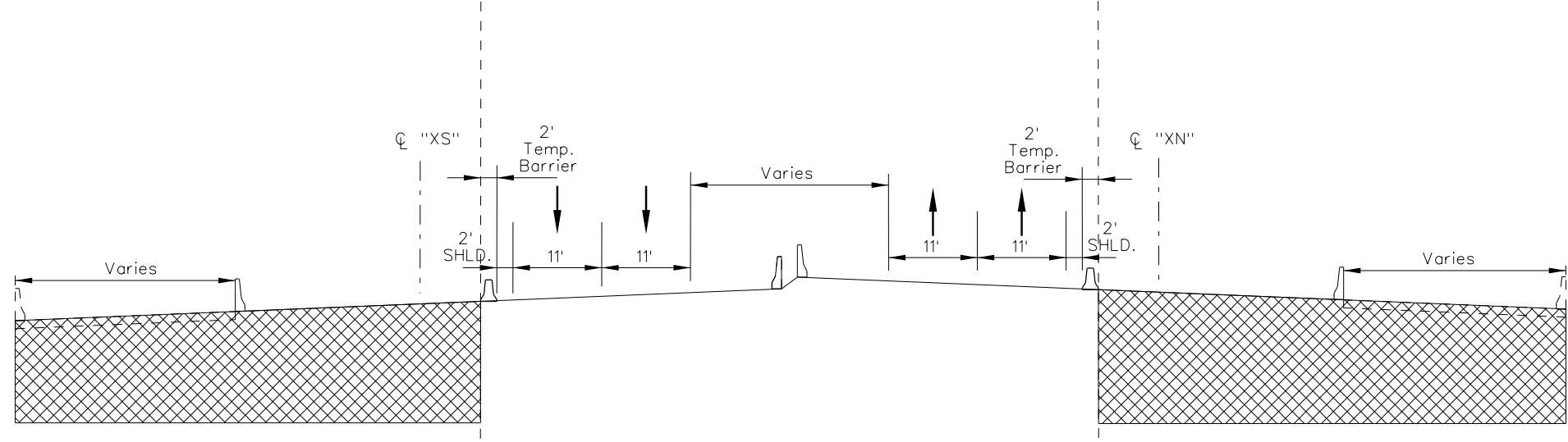
**TRAFFIC CONTROL
 MATRIX**

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TC2

- LEGEND -
 - LIMITS OF WORK ZONES




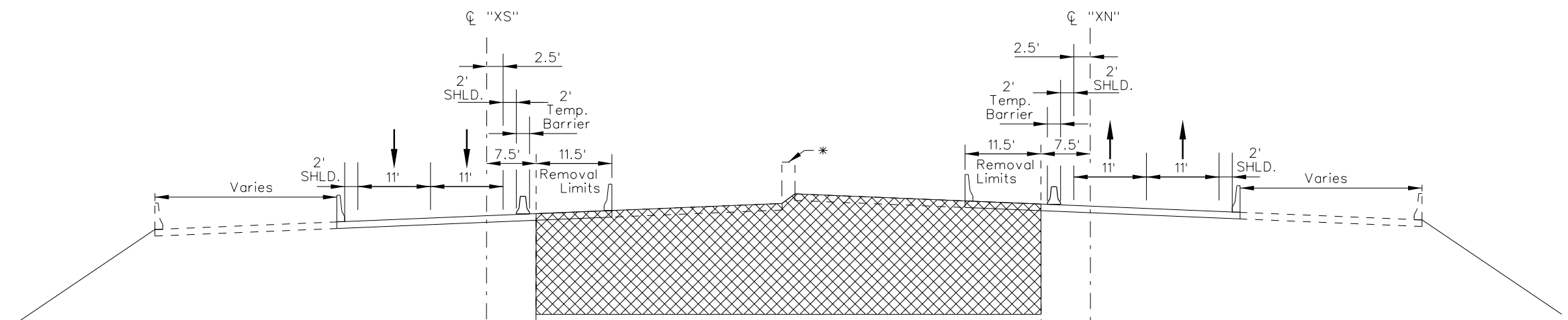
PHASE 1 - INSIDE WIDENING AT STRUCTURES I-1092 & I-1093



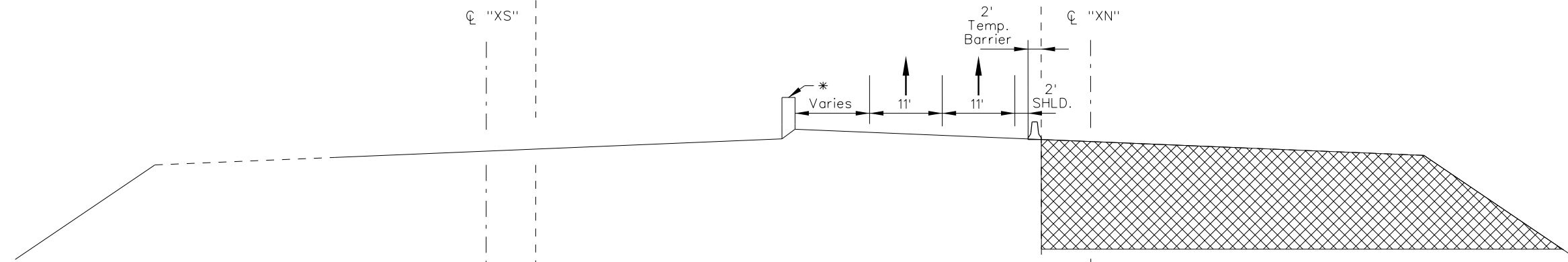
PHASE 2 - OUTSIDE WIDENING AT STRUCTURES I-1092 & I-1093

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TC3

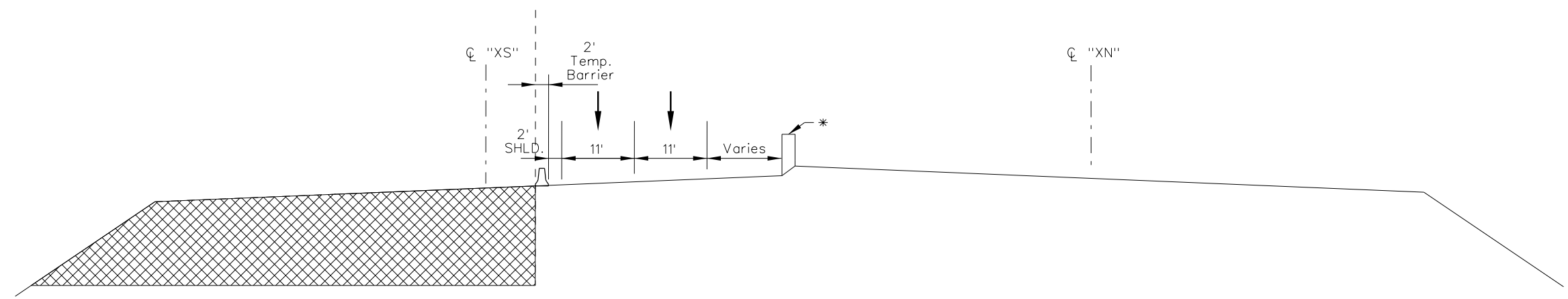
- LEGEND -
-  - LIMITS OF WORK ZONES
 - * - SEE PLAN SHEETS FOR MEDIAN TREATMENT



PHASE 1 - INSIDE & WIDENING

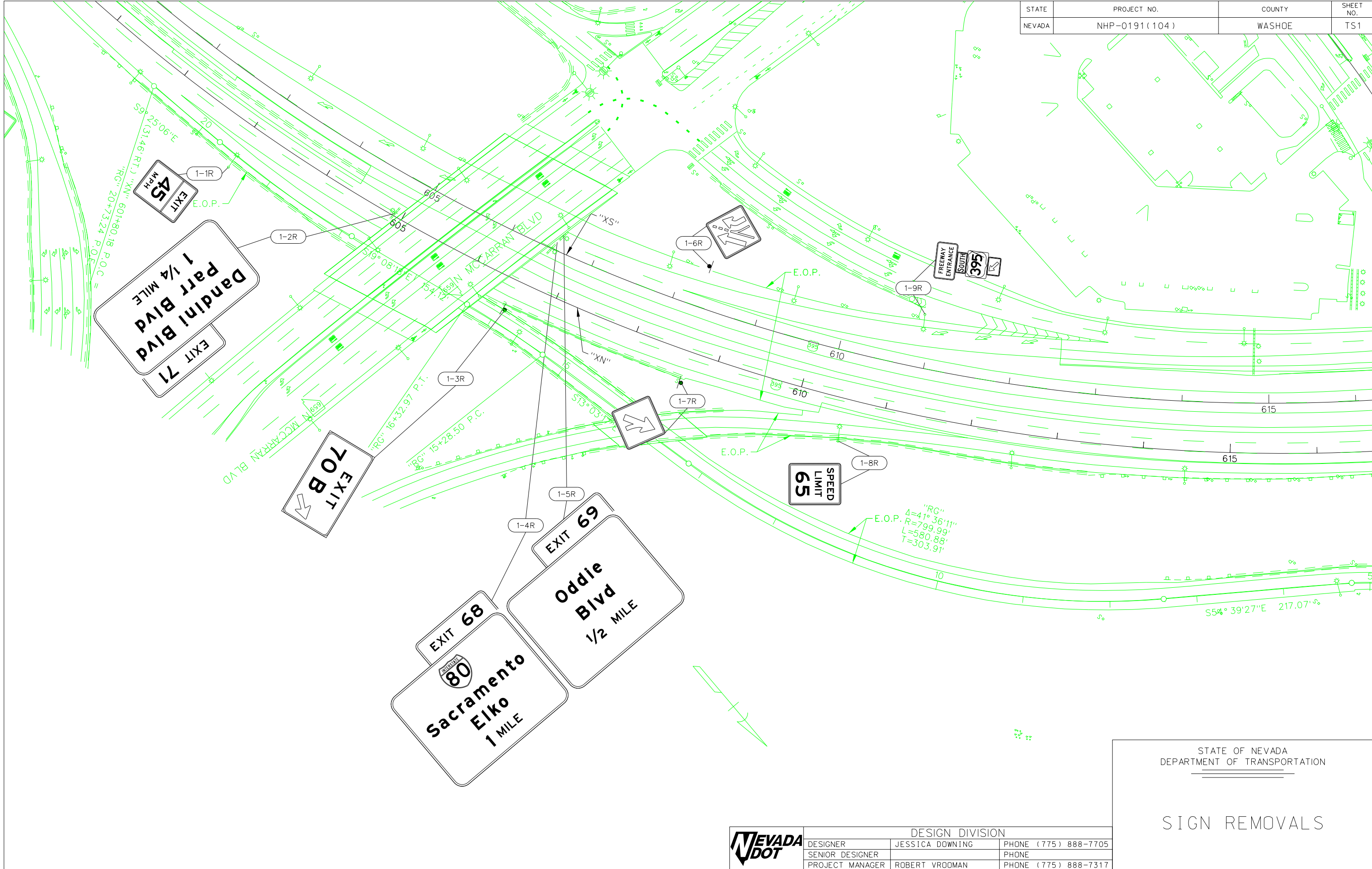


PHASE 2 - OUTSIDE & WIDENING NORTHBOUND DONE CONCURRENT WITH OUTSIDE STRUCTURES I-1092 & I-1093



PHASE 3 - OUTSIDE & WIDENING SOUTHBOUND

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS1

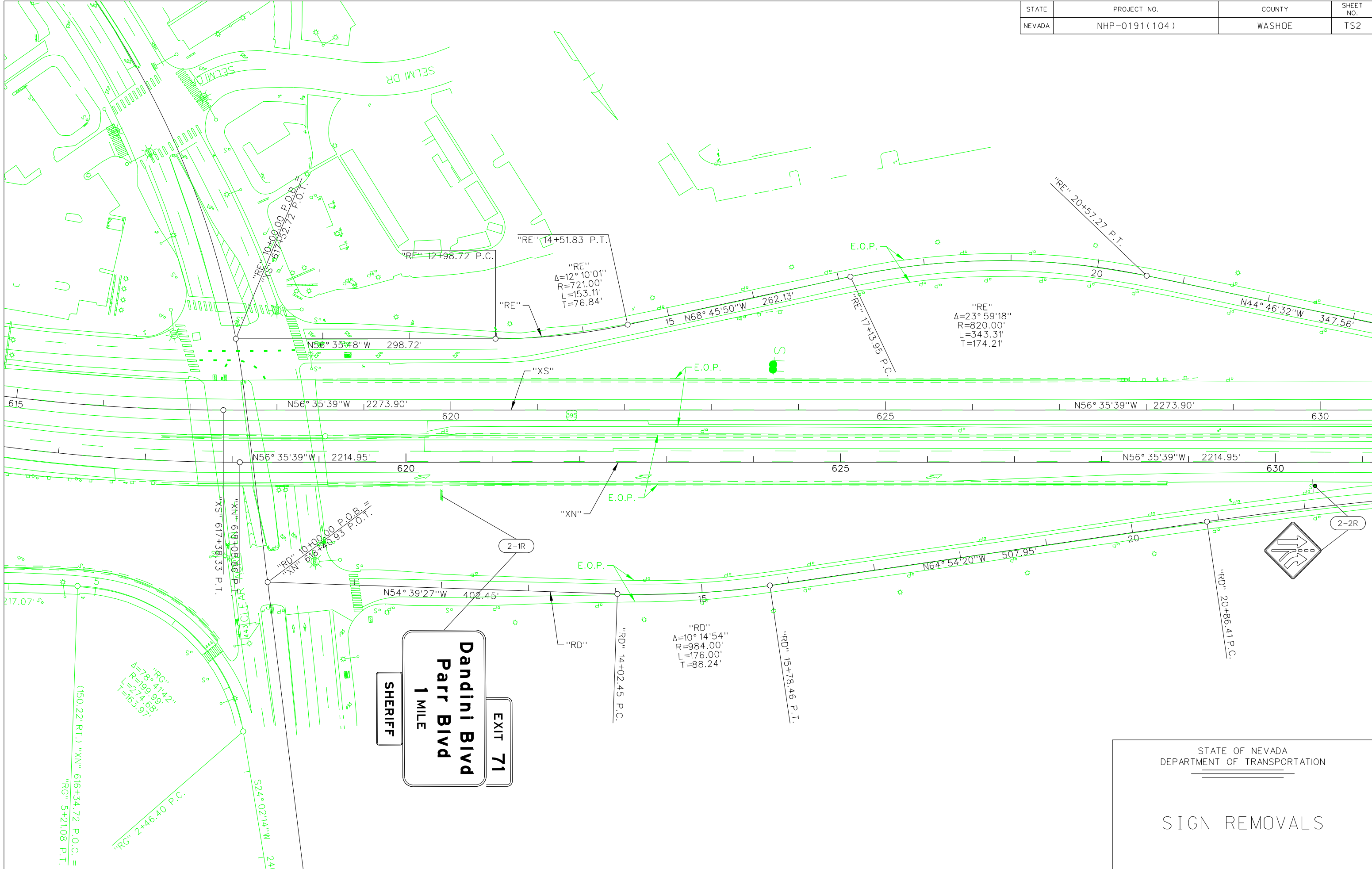


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN REMOVALS

	DESIGN DIVISION		
	DESIGNER	JESSICA DOWNING	
	PHONE	(775) 888-7705	
SENIOR DESIGNER		PHONE	
PROJECT MANAGER	ROBERT VROOMAN	PHONE	(775) 888-7317

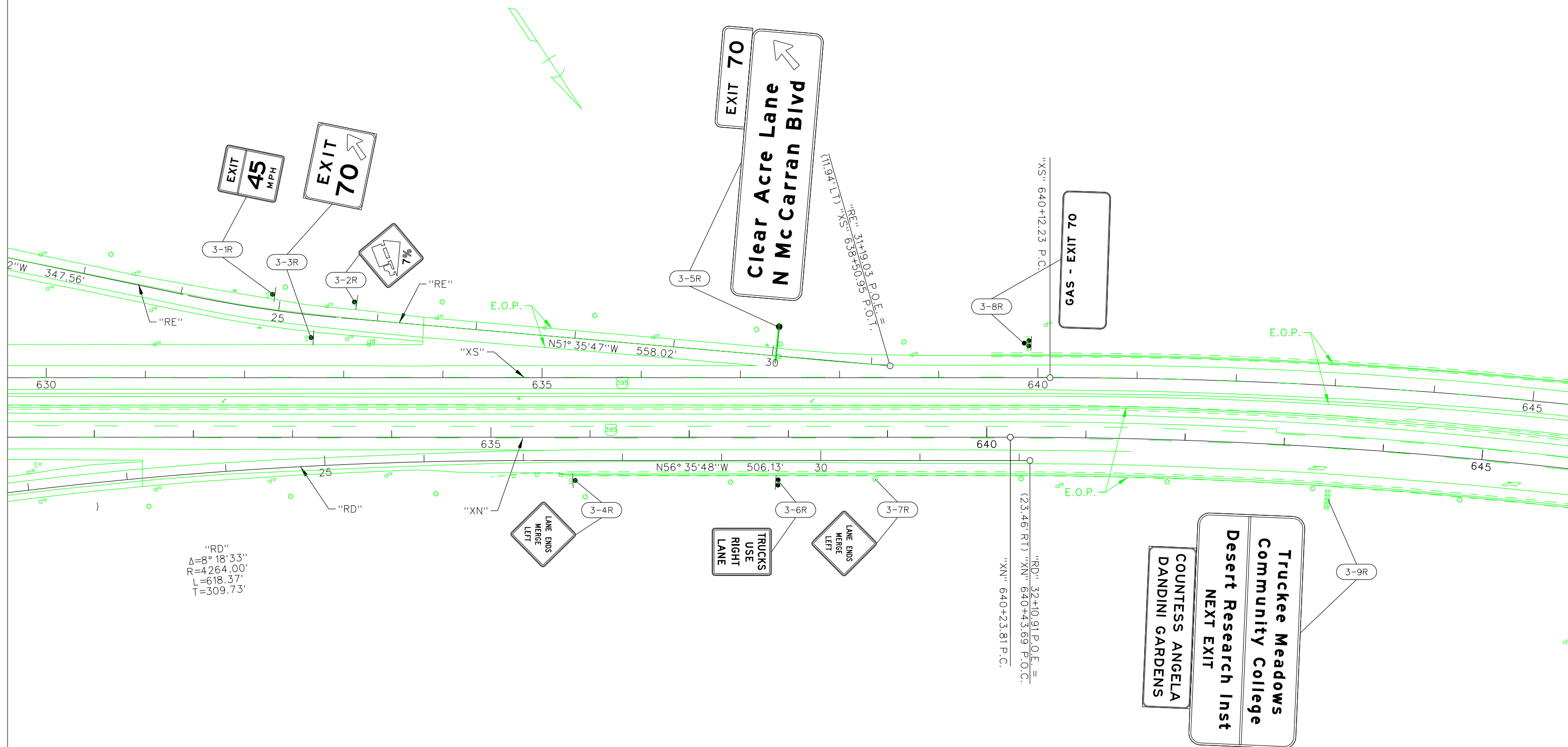
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS2



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN REMOVALS

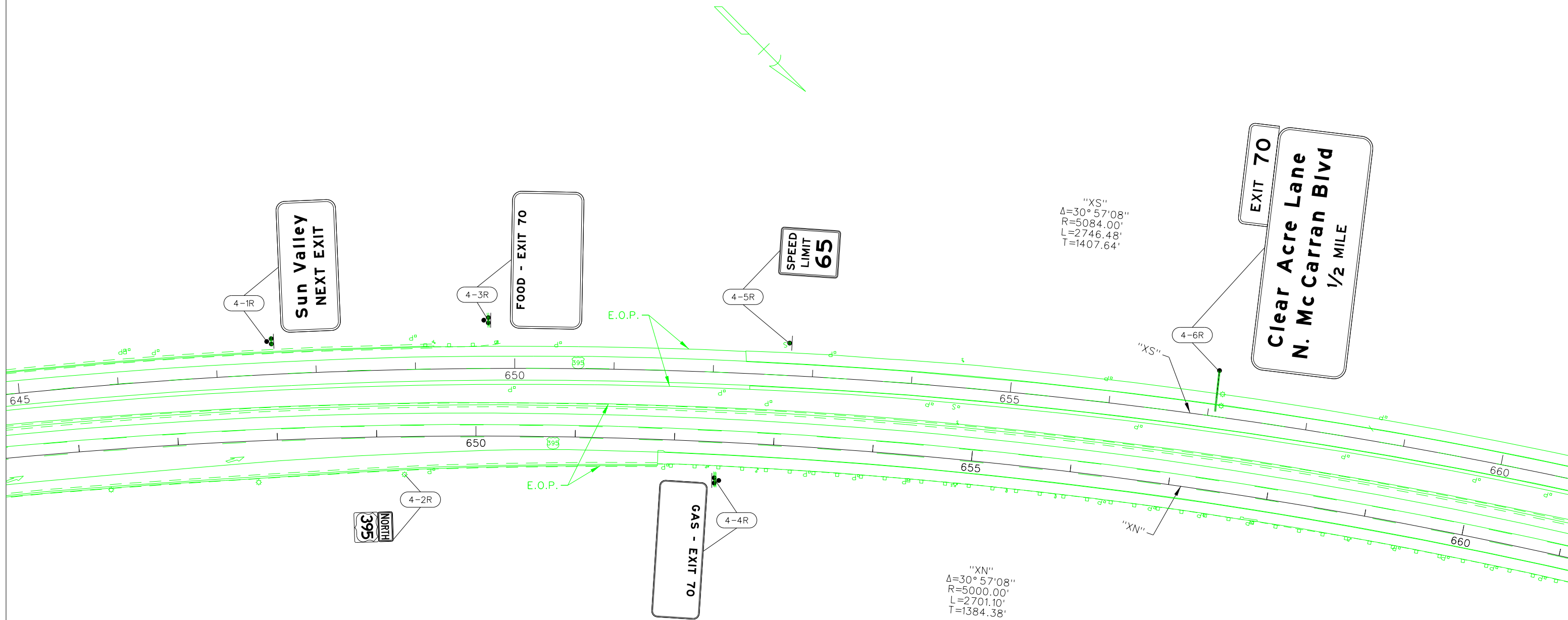
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS3



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN REMOVALS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS4



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN REMOVALS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS5

Clear Acre Lane
 N. McCarran Blvd
 Glendale Ave

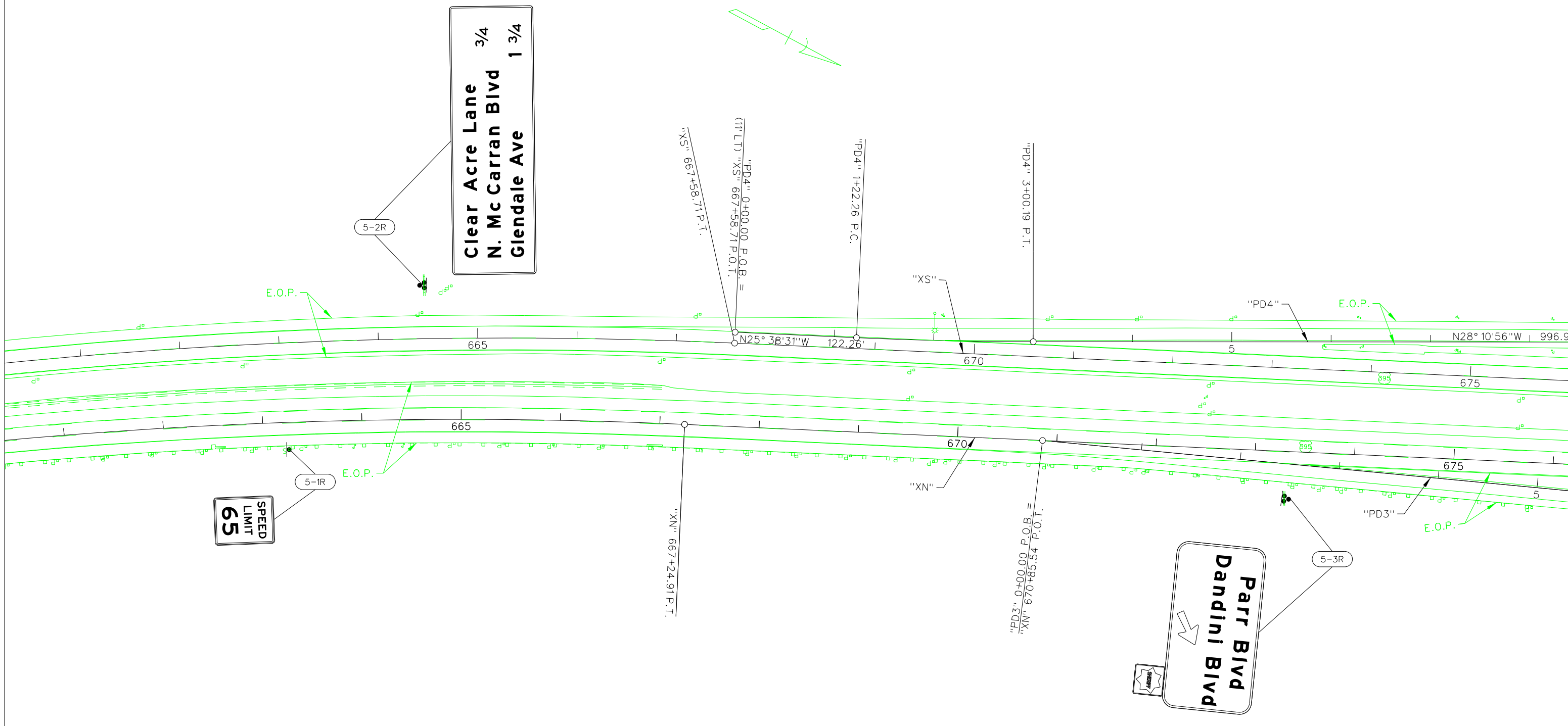
3/4
 1 3/4

SPEED
 LIMIT
 65

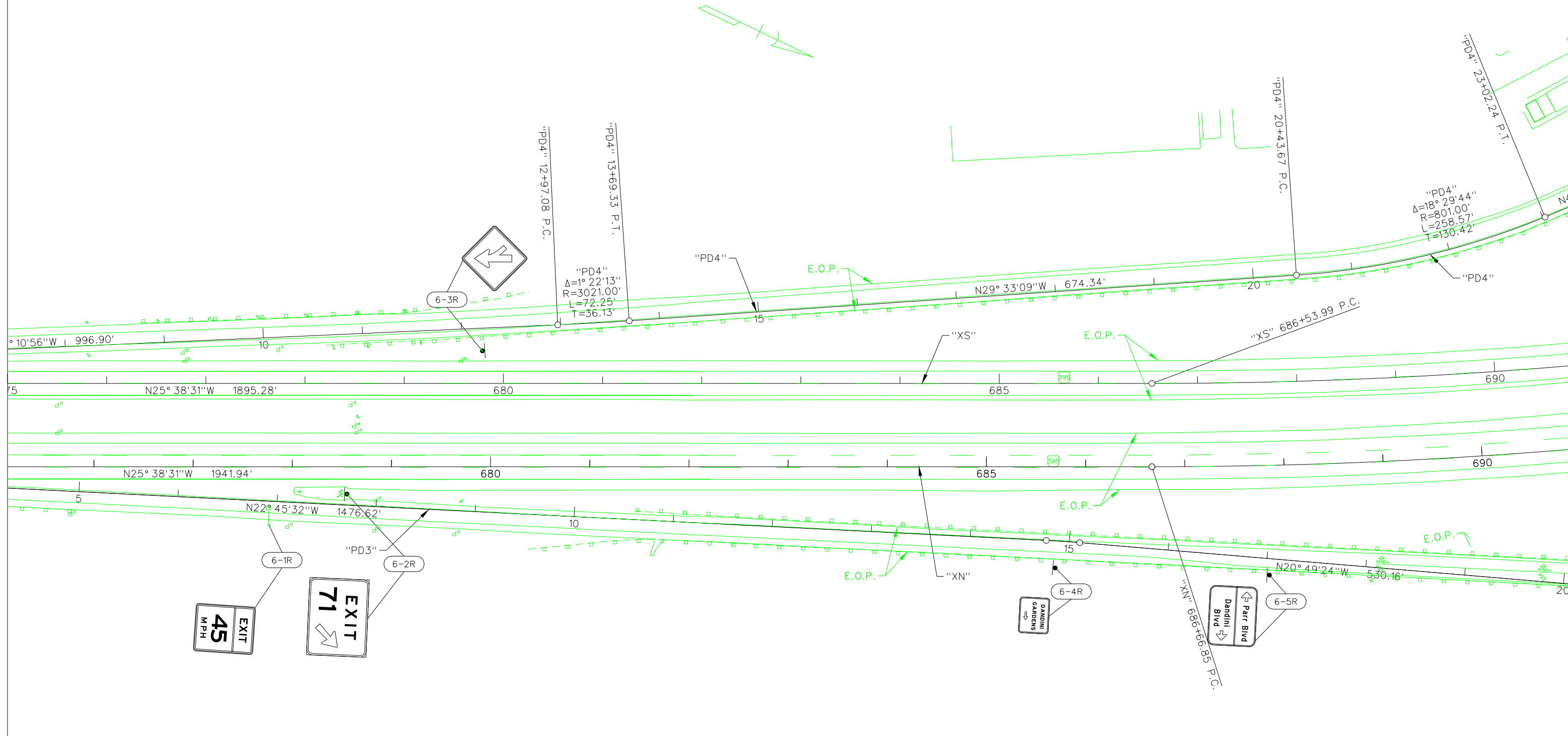
Parr Blvd
 Dandini Blvd

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

SIGN REMOVALS



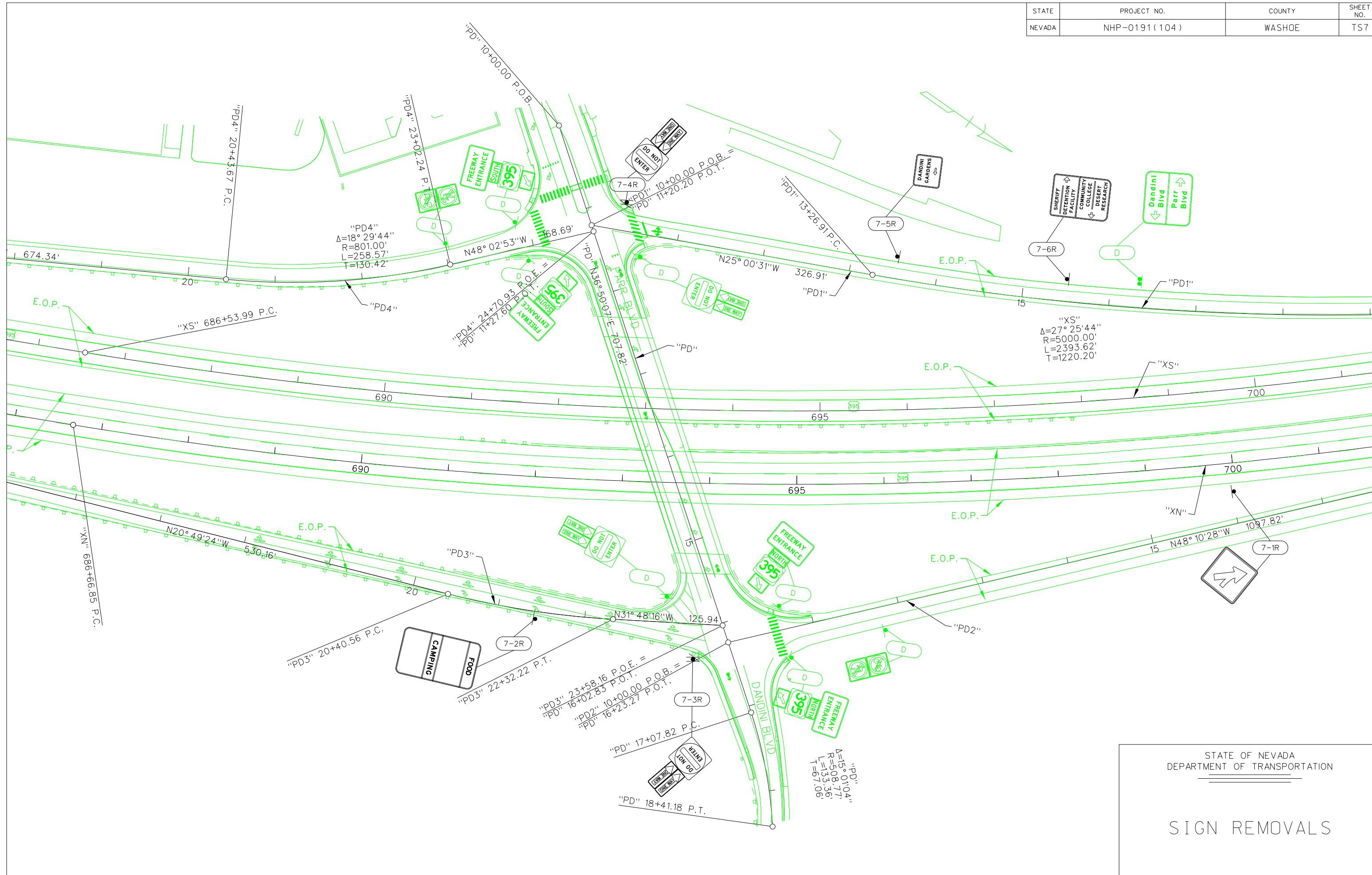
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS6



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN REMOVALS

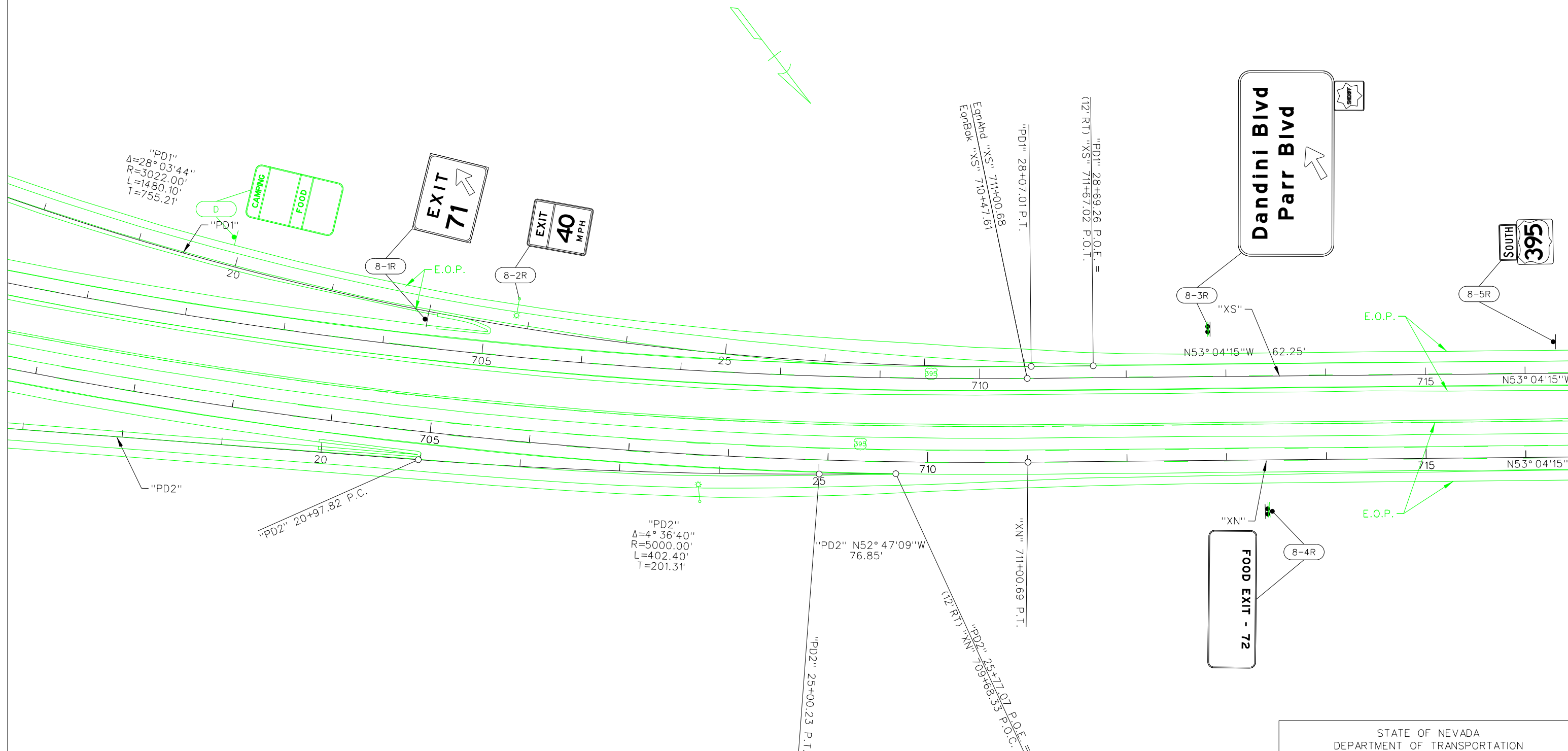
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS7



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN REMOVALS

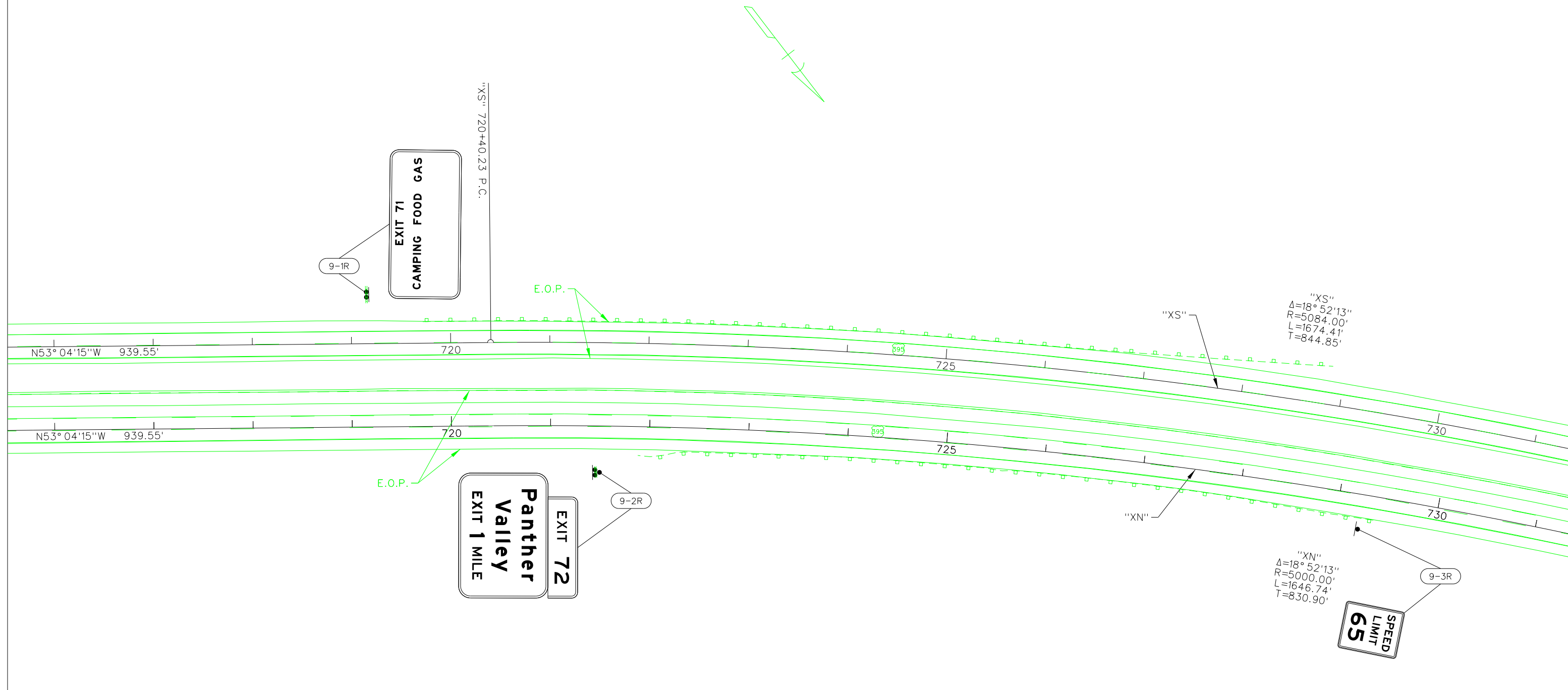
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS8



STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

SIGN REMOVALS

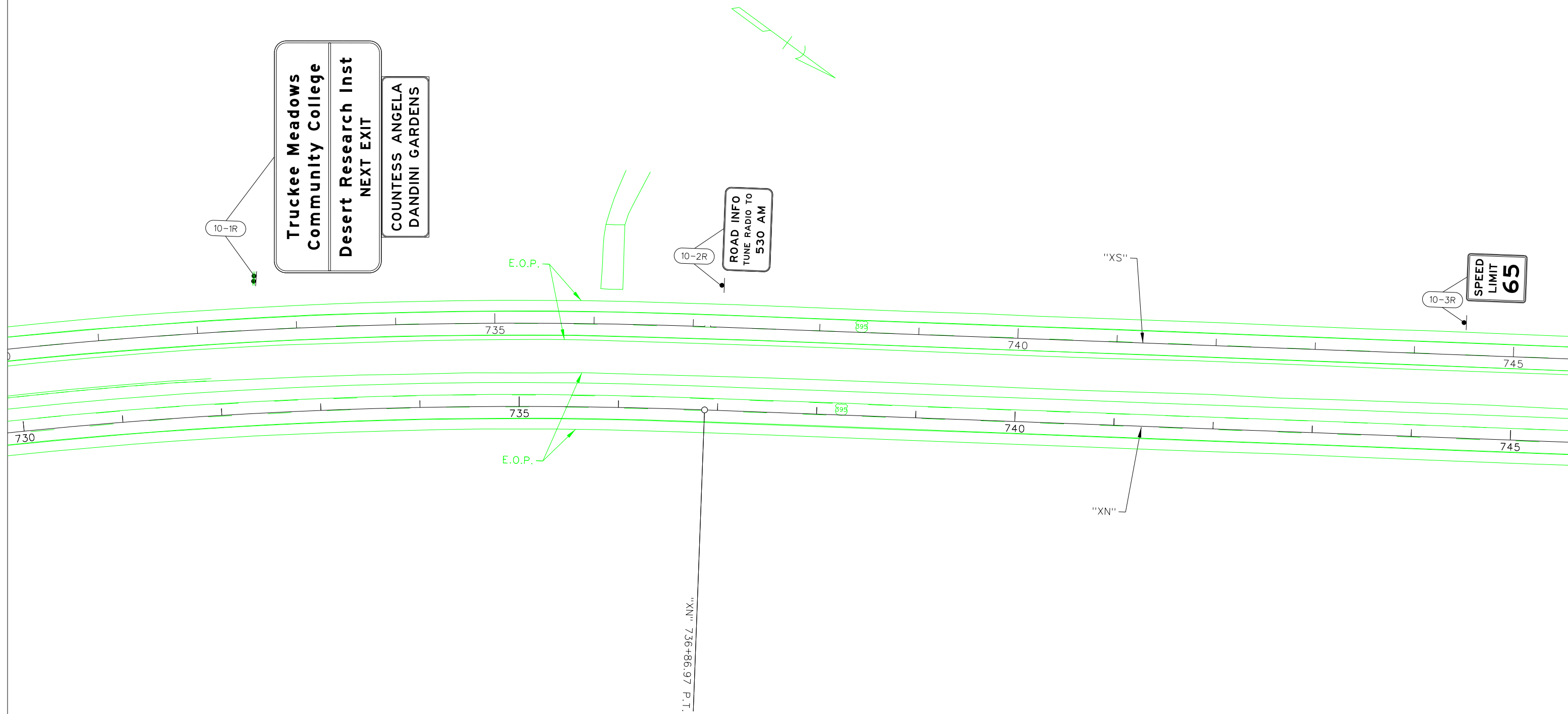
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS9



STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

SIGN REMOVALS

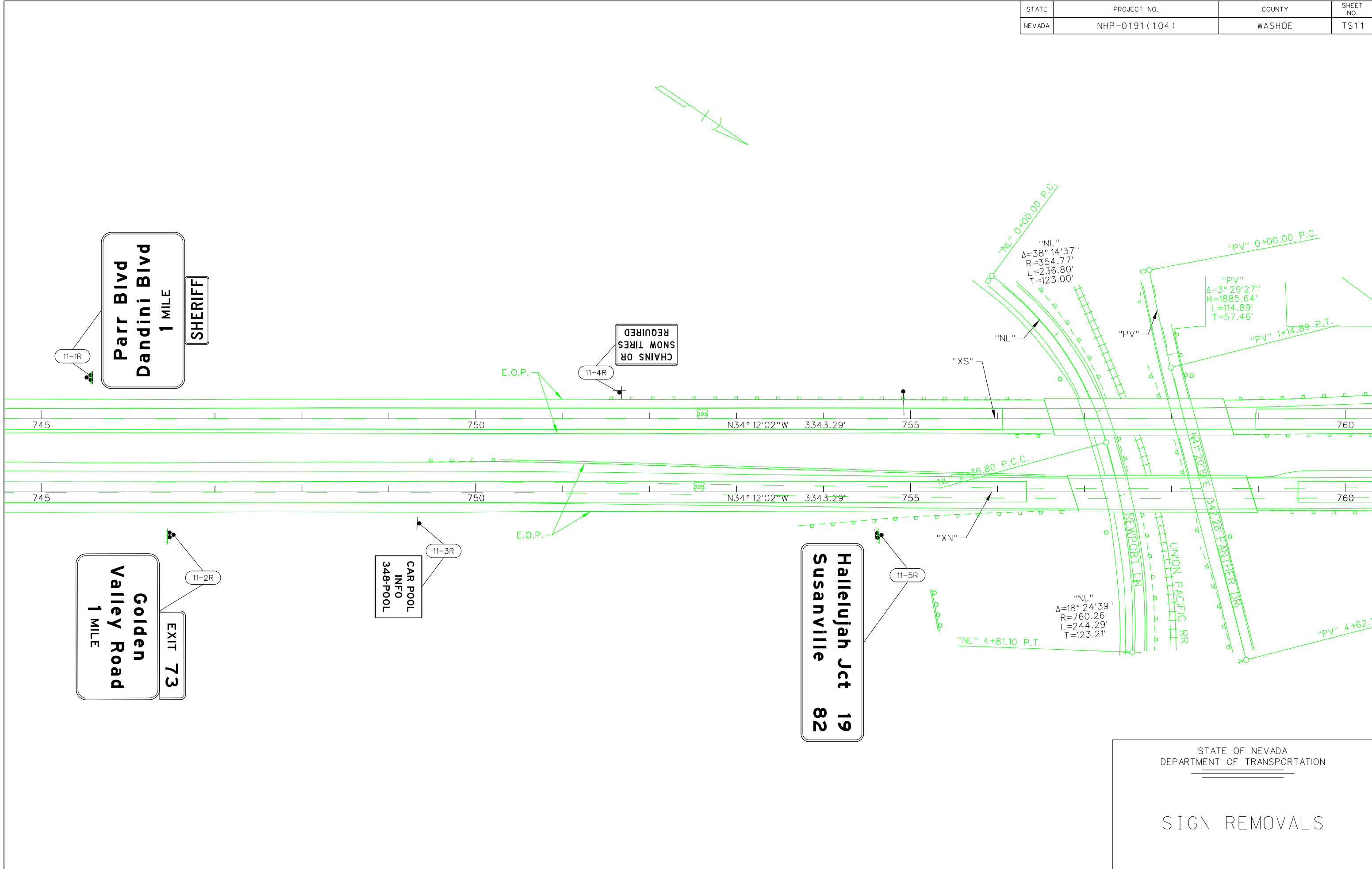
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS10



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN REMOVALS

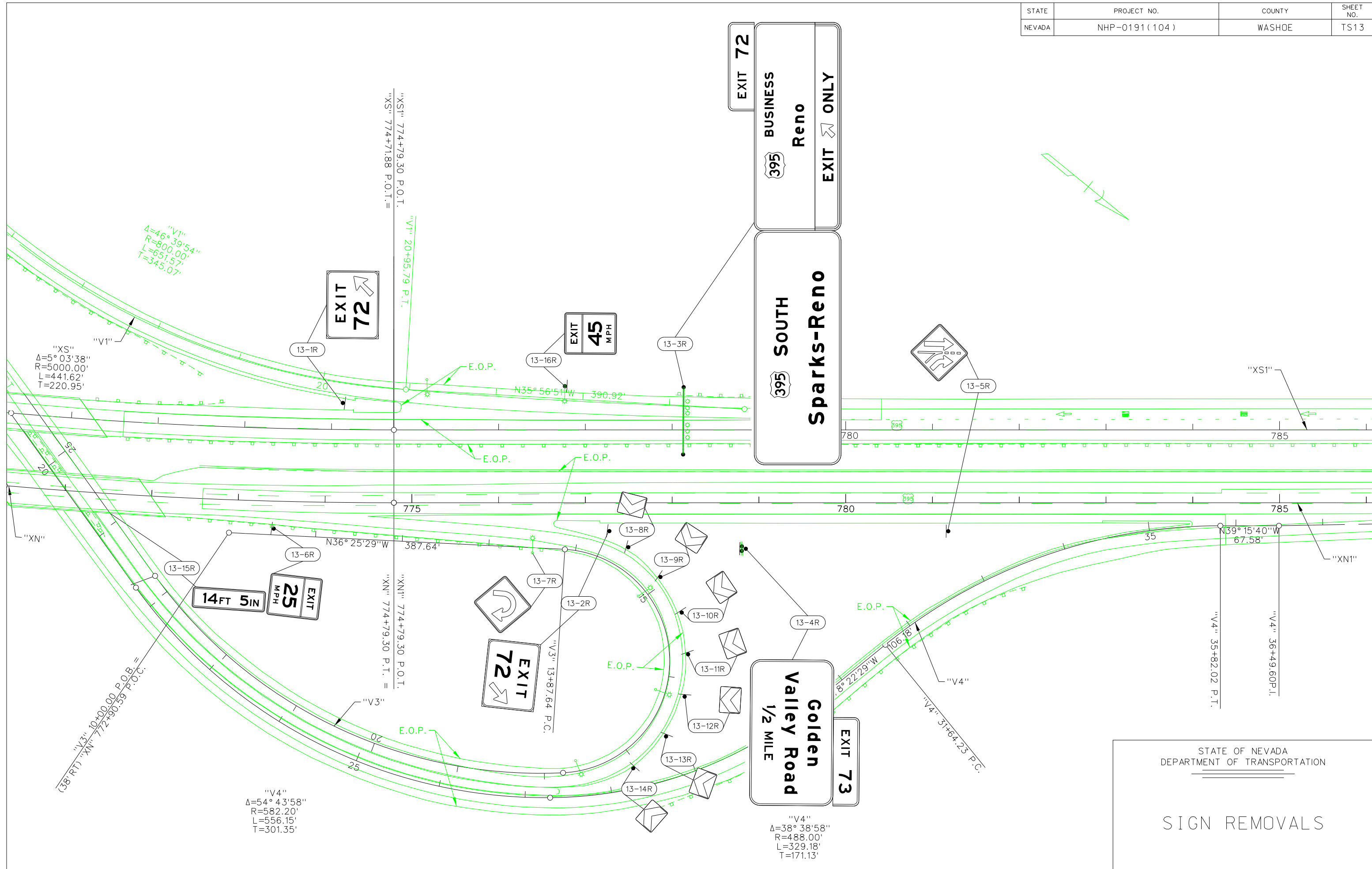
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS 11



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN REMOVALS

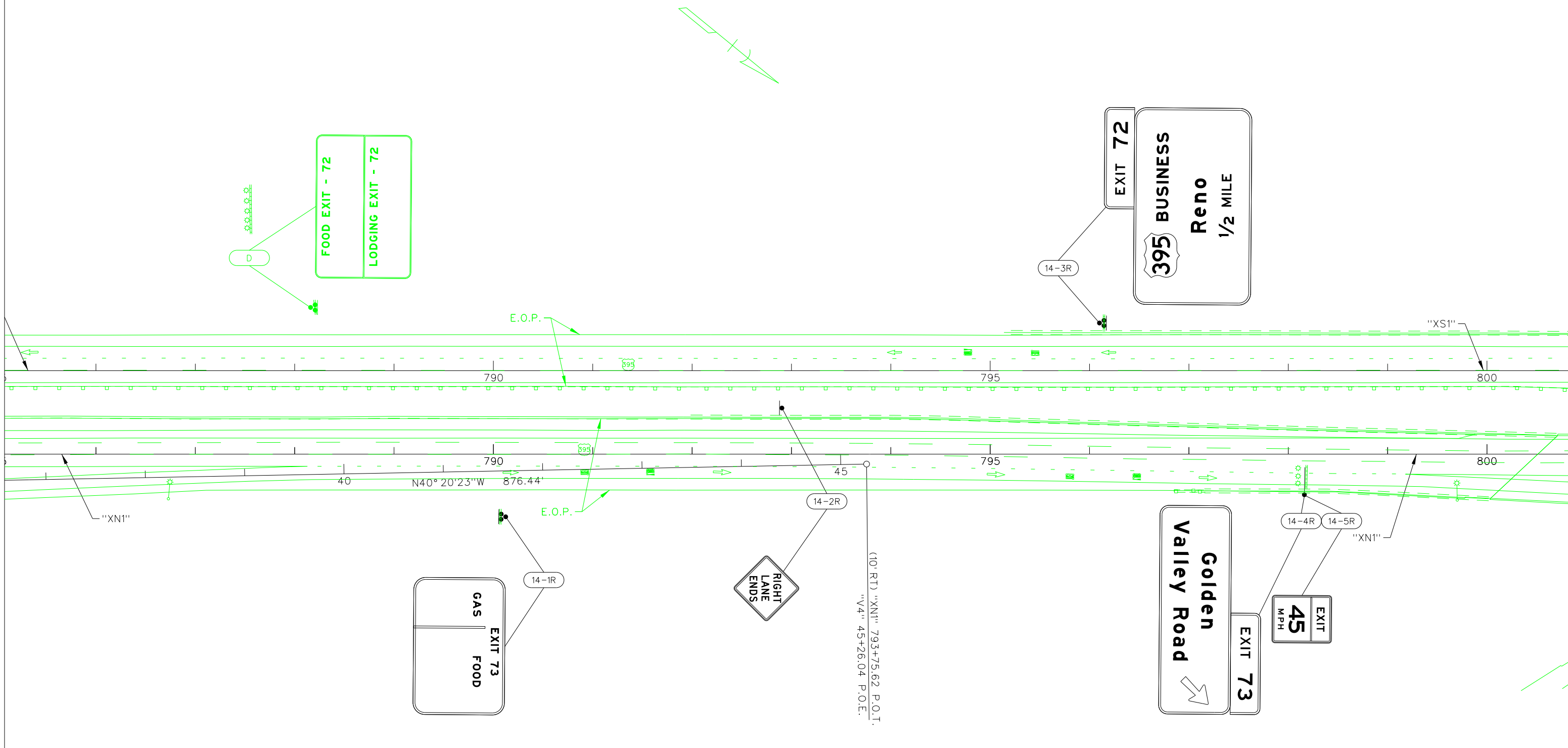
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS13



STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

SIGN REMOVALS

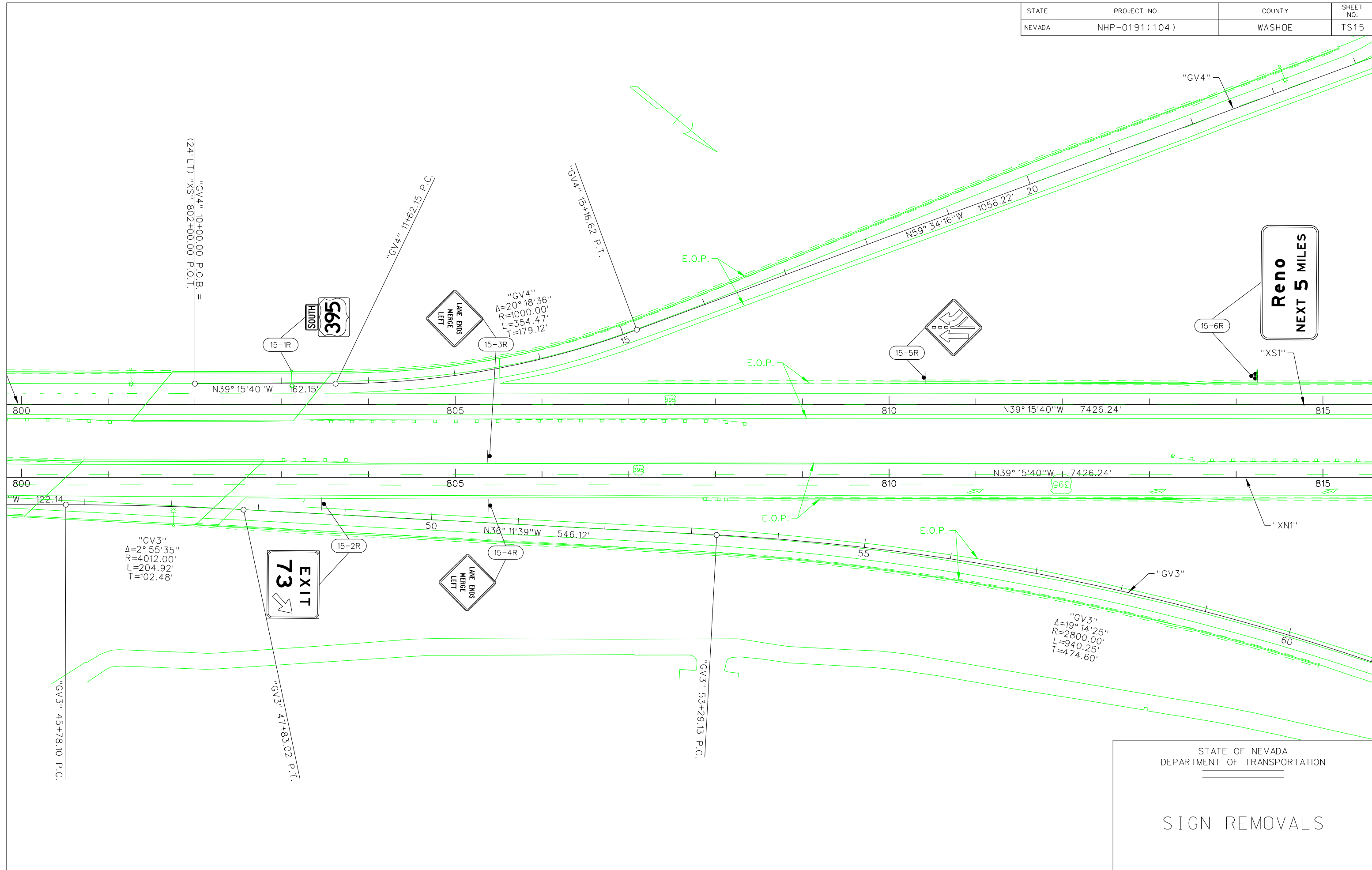
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS14



STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

SIGN REMOVALS

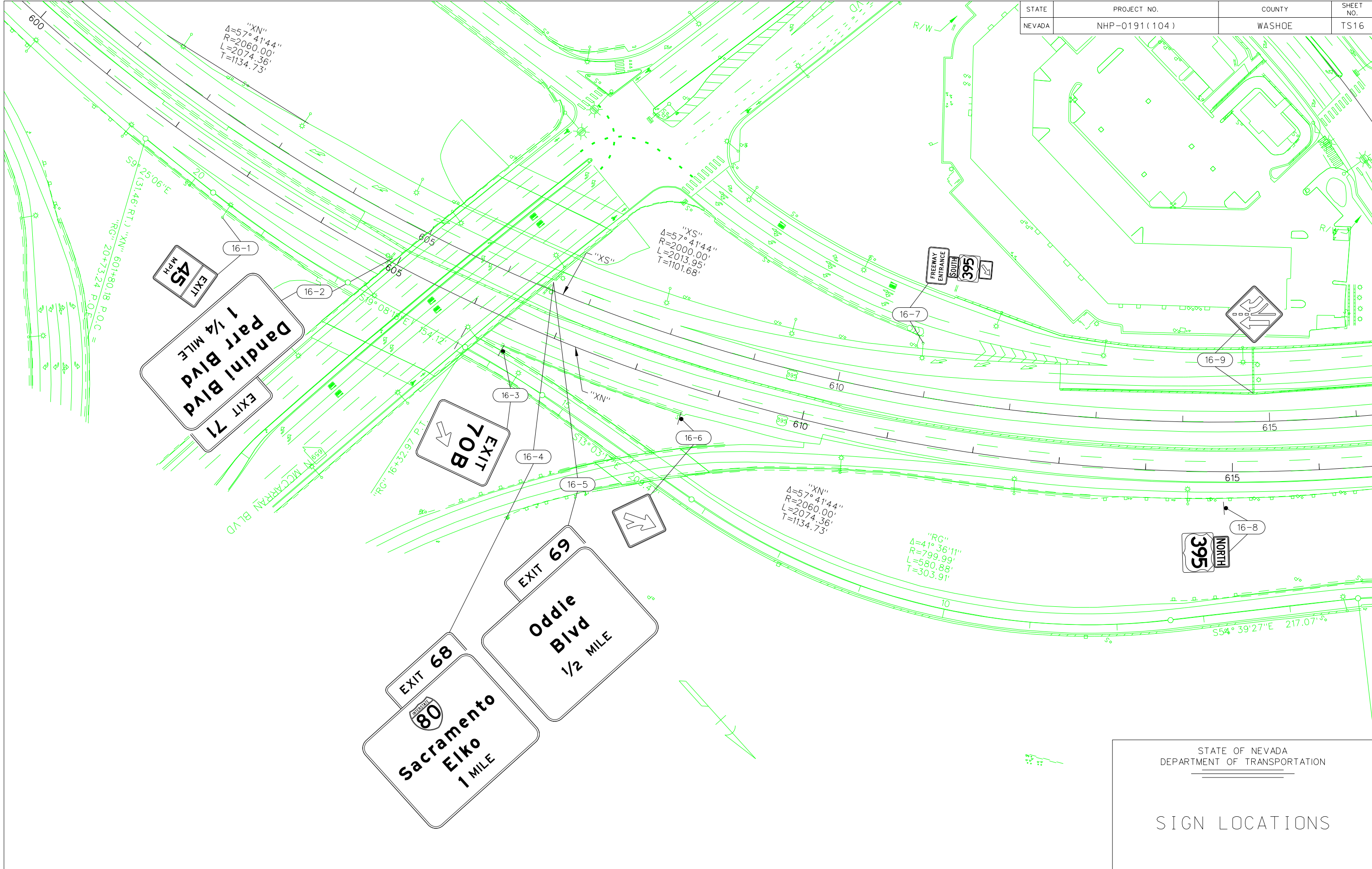
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS15



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN REMOVALS

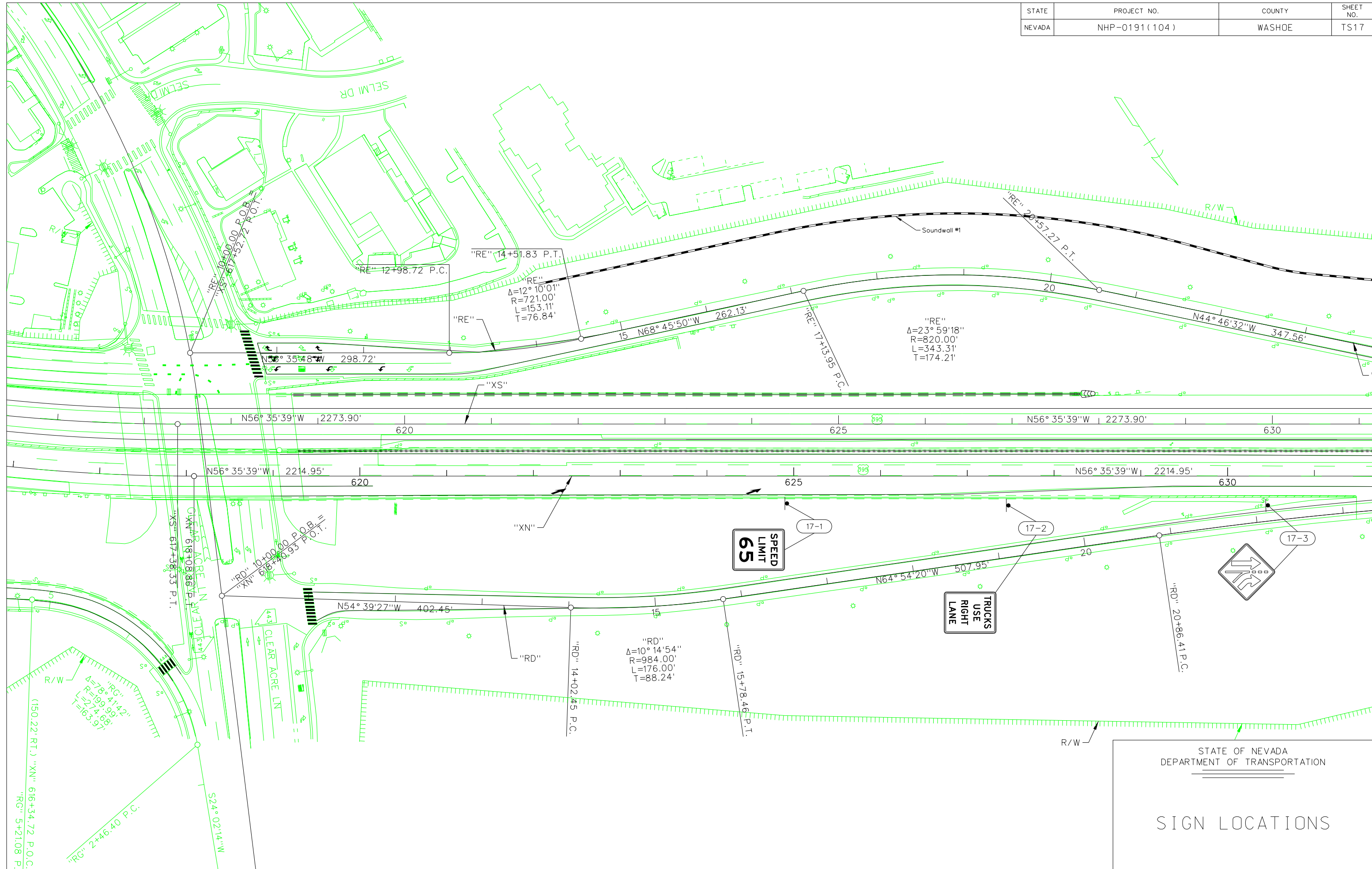
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS16



STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS

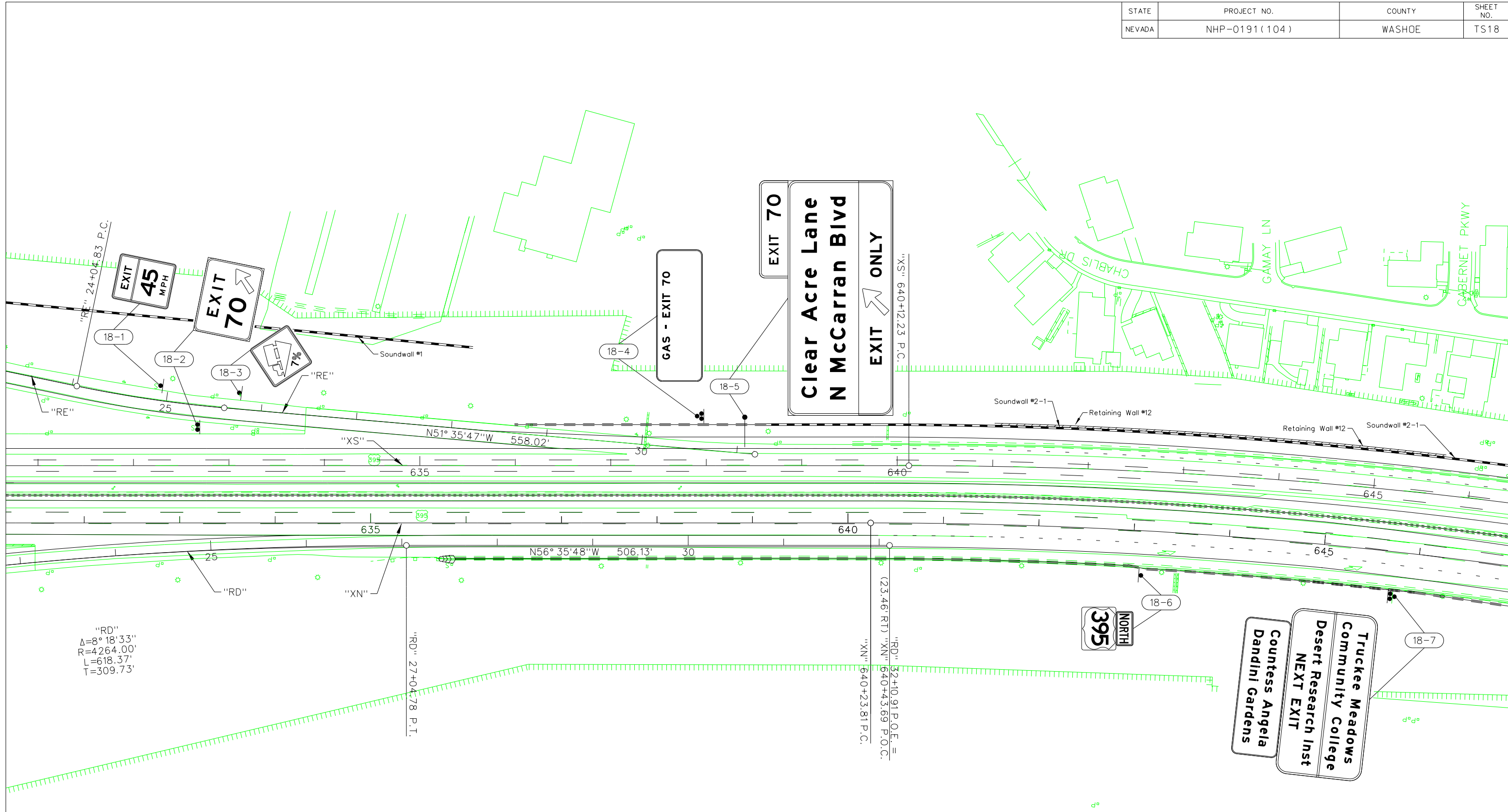
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS17



STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS

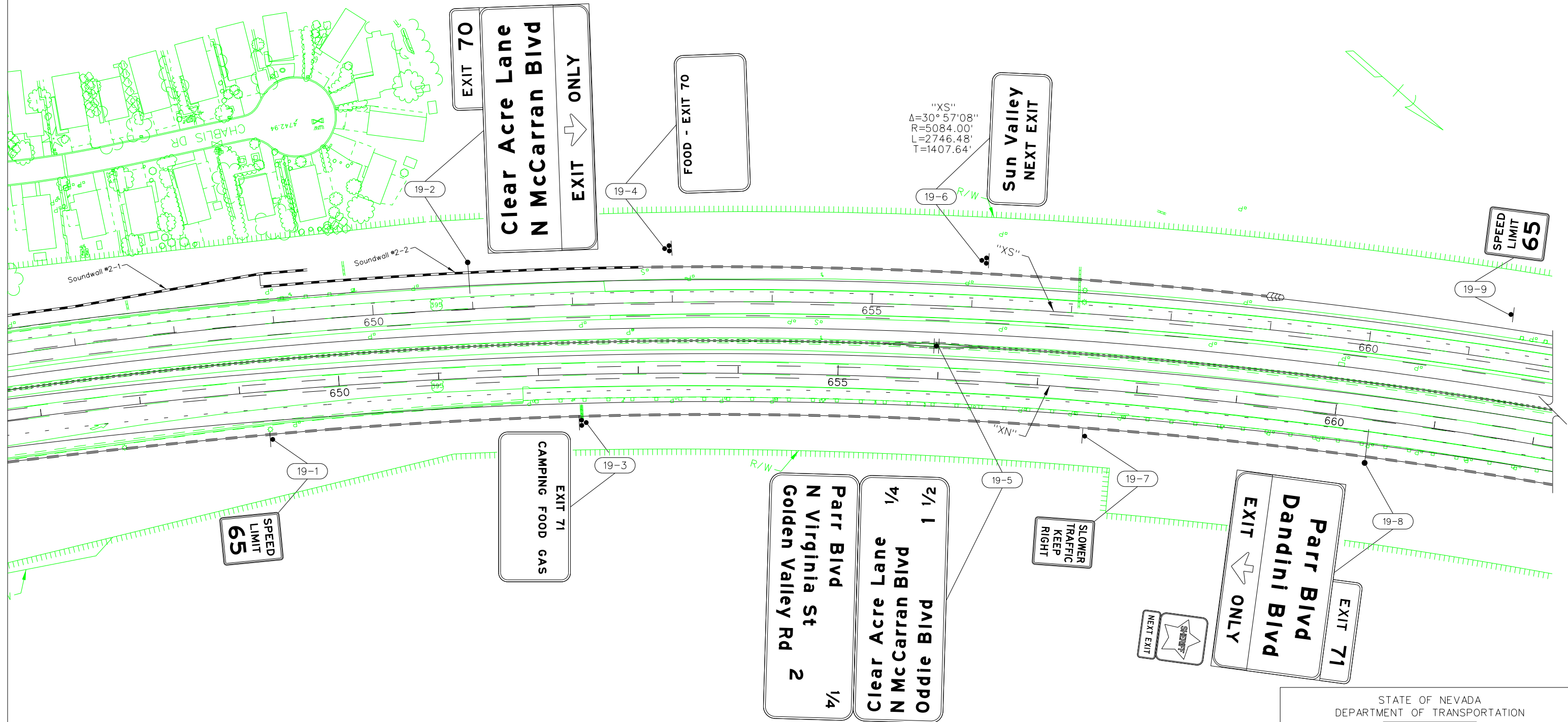
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS18



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS

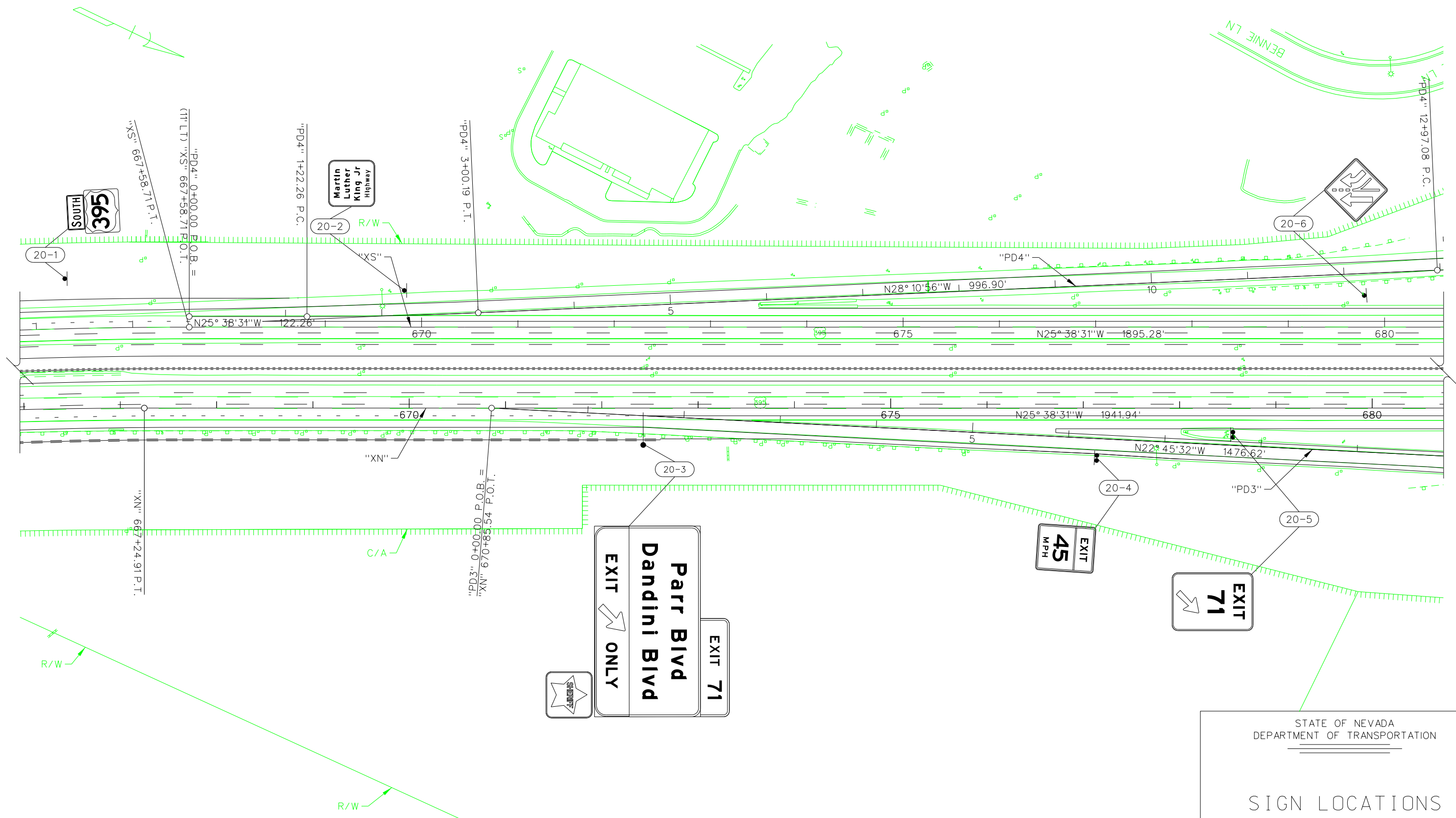
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS19



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS

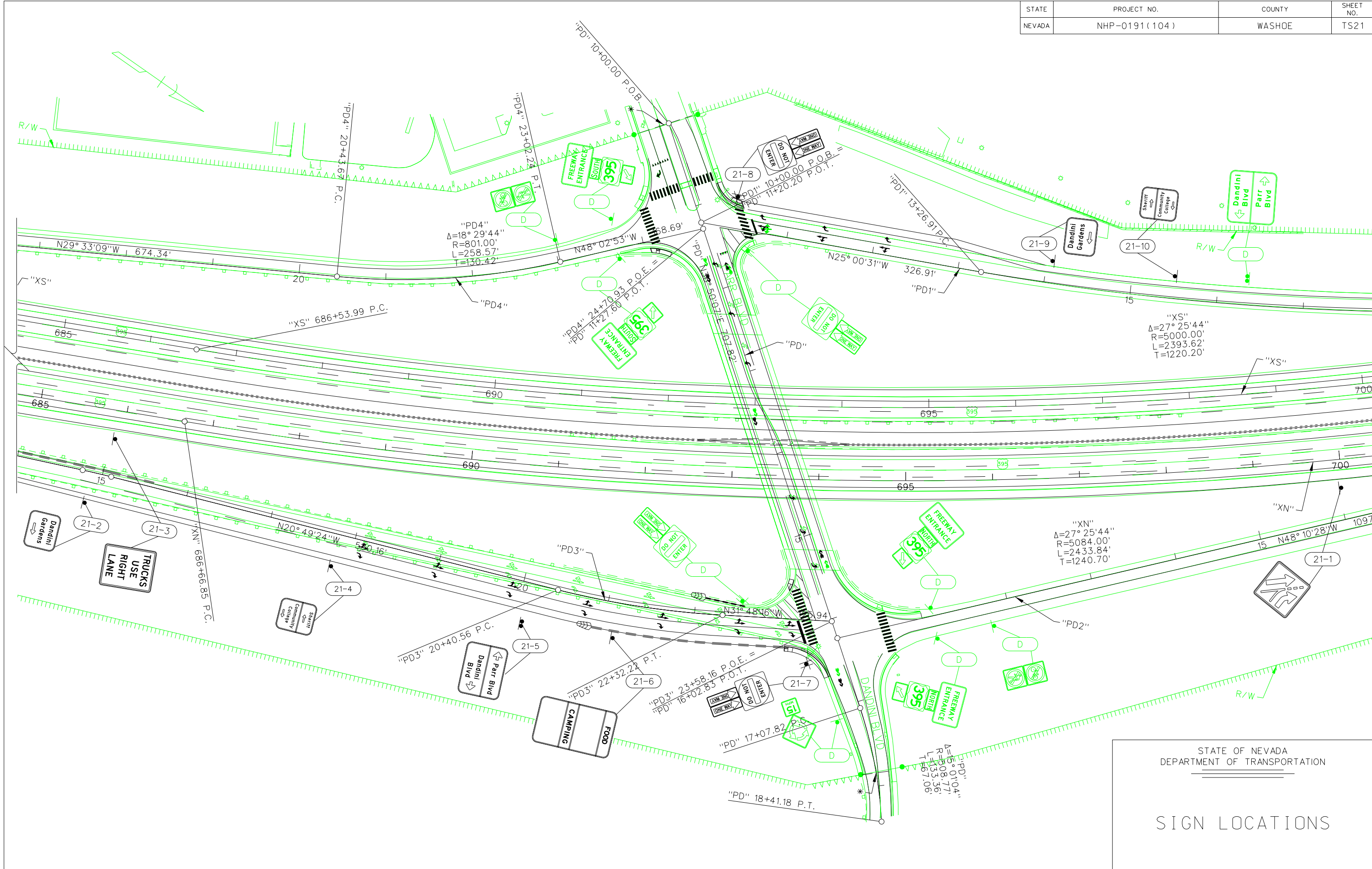
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS20



STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS

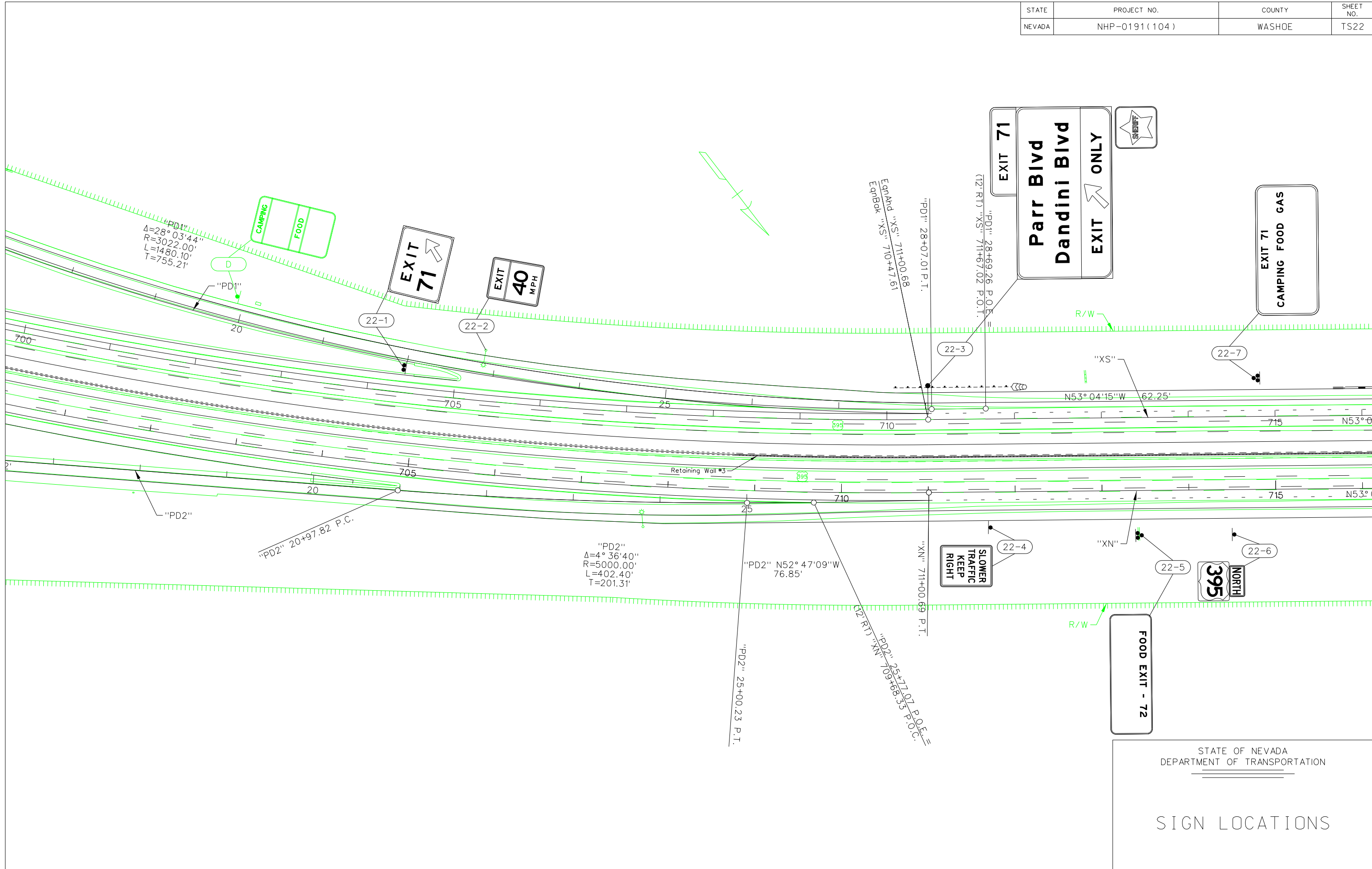
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS21



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS

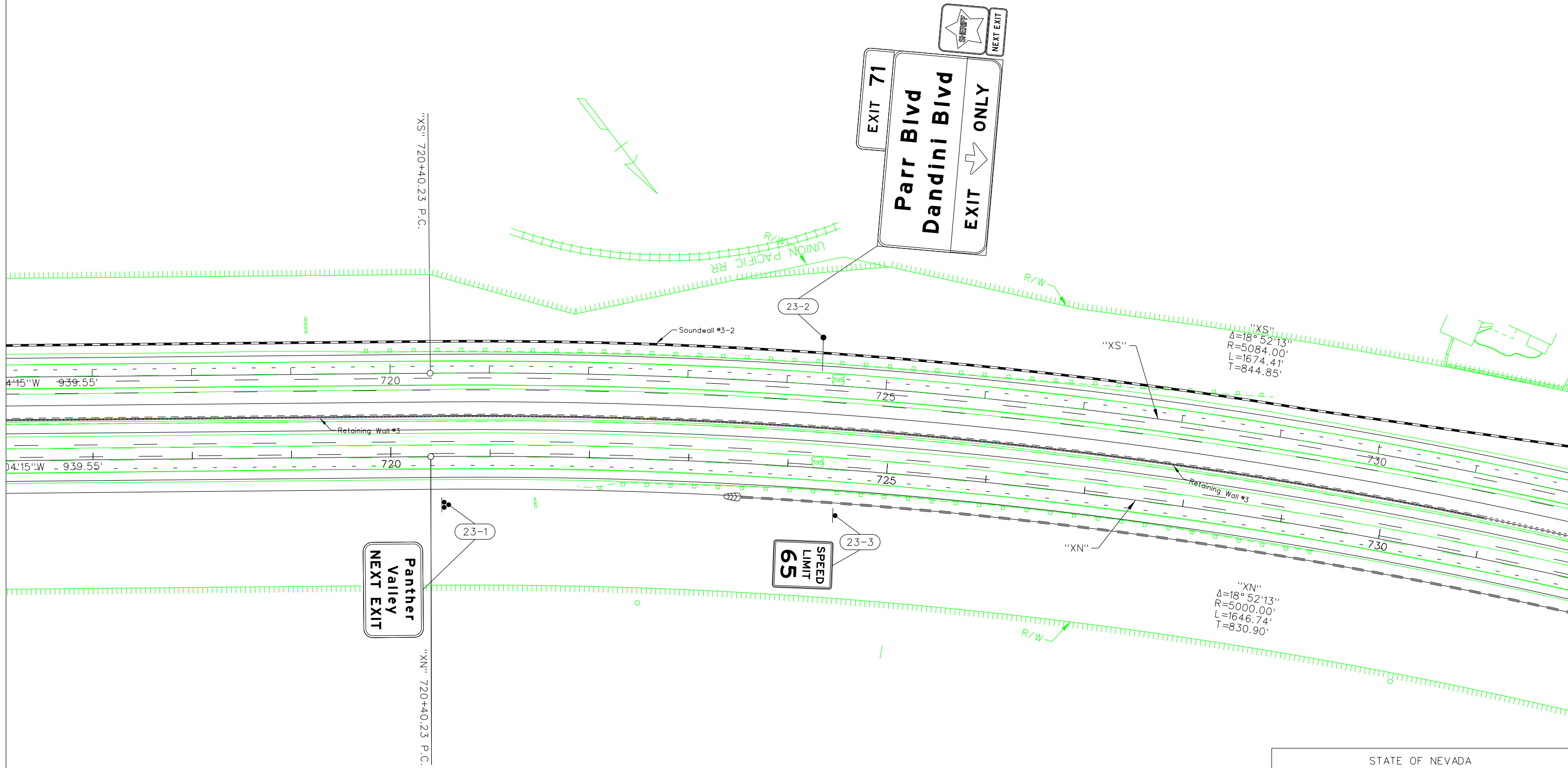
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS22



STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS

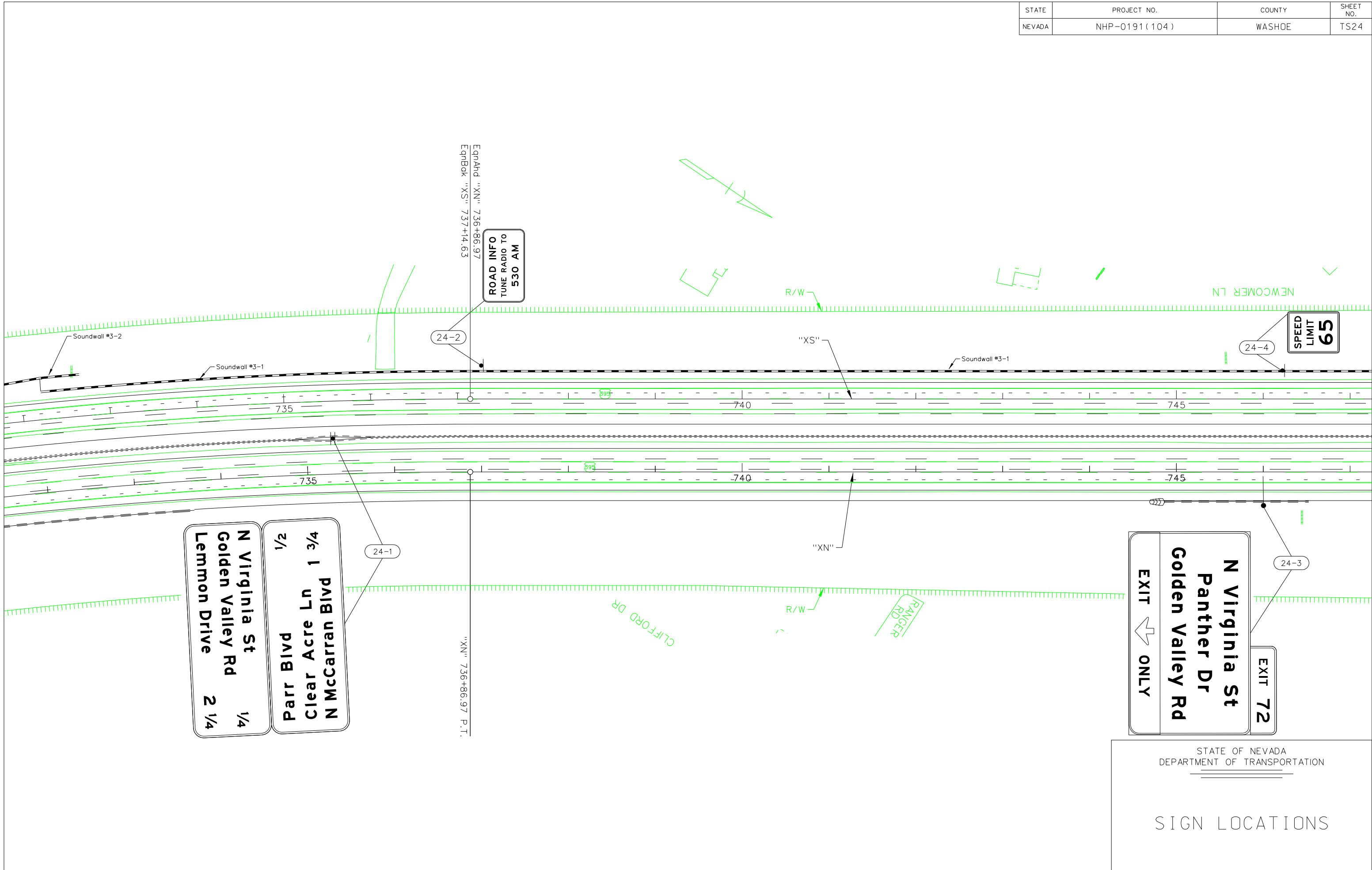
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS23



STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS

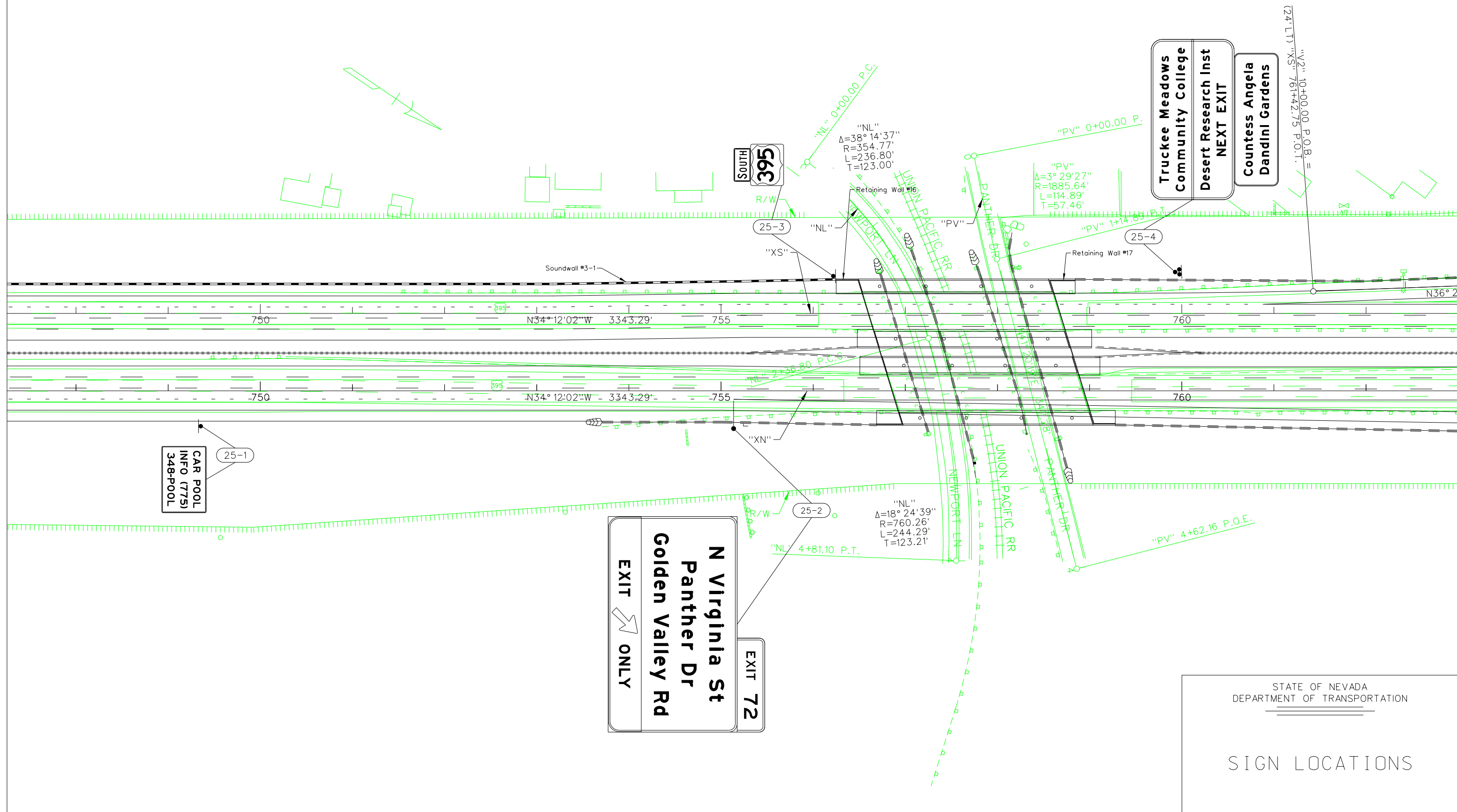
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	TS24



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS

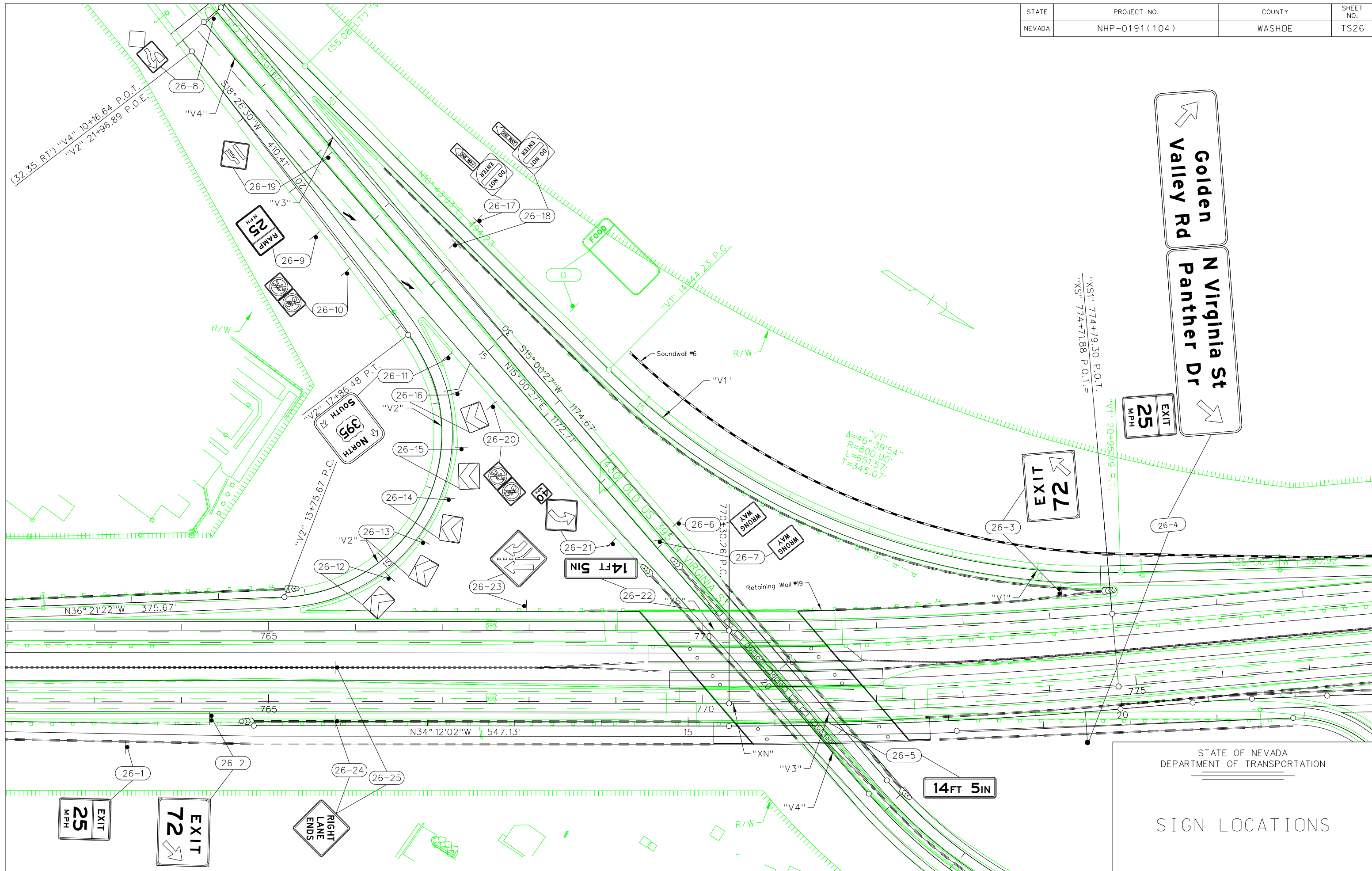
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS25



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS

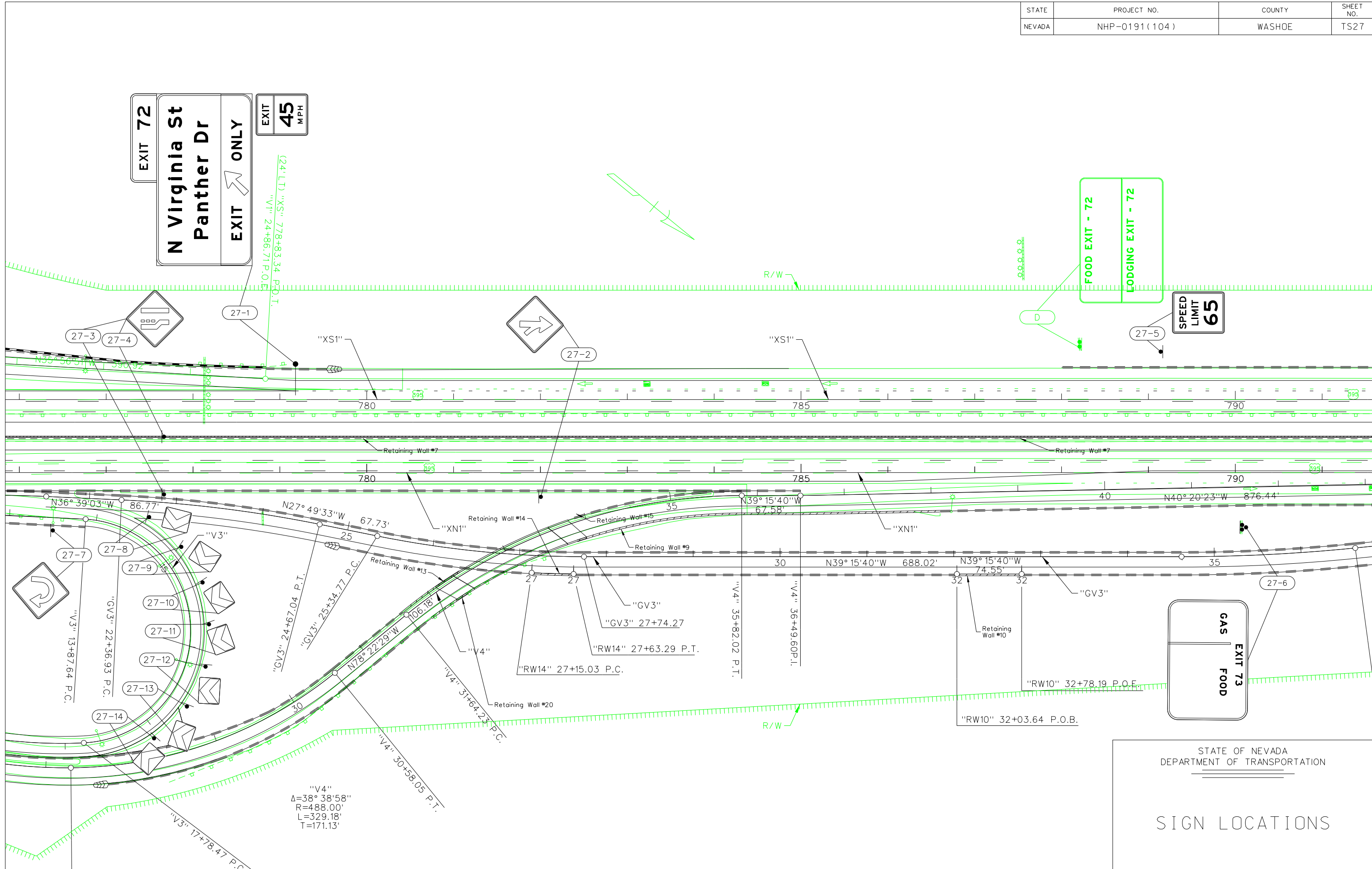
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS26



STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS27



EXIT 72
N Virginia St
Panther Dr
EXIT ONLY

EXIT 45
MPH

FOOD EXIT - 72
LODGING EXIT - 72

SPEED LIMIT 65

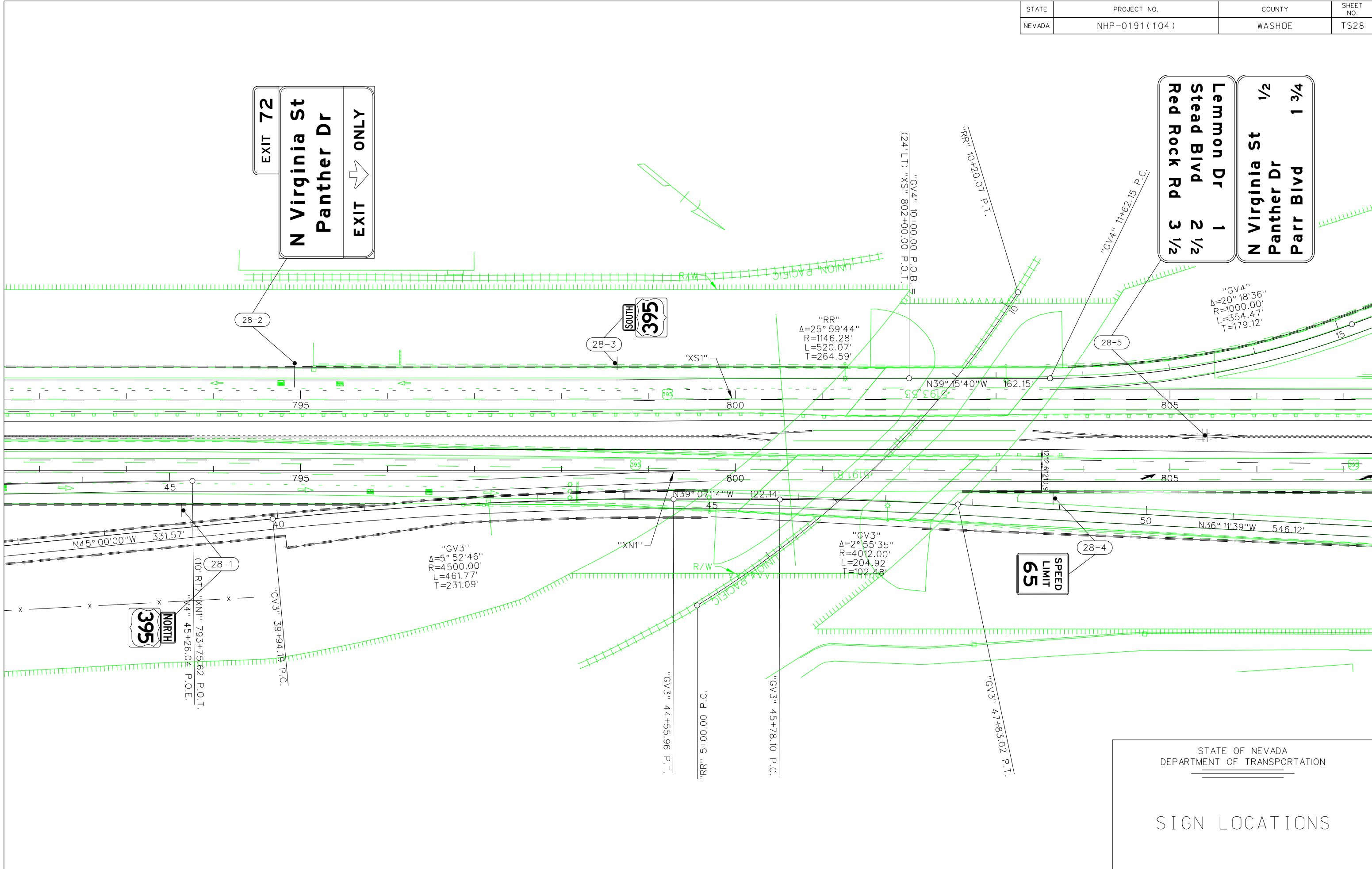
GAS
EXIT 73
FOOD

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS

"V4"
 $\Delta=38^\circ 38'58''$
 $R=488.00'$
 $L=329.18'$
 $T=171.13'$

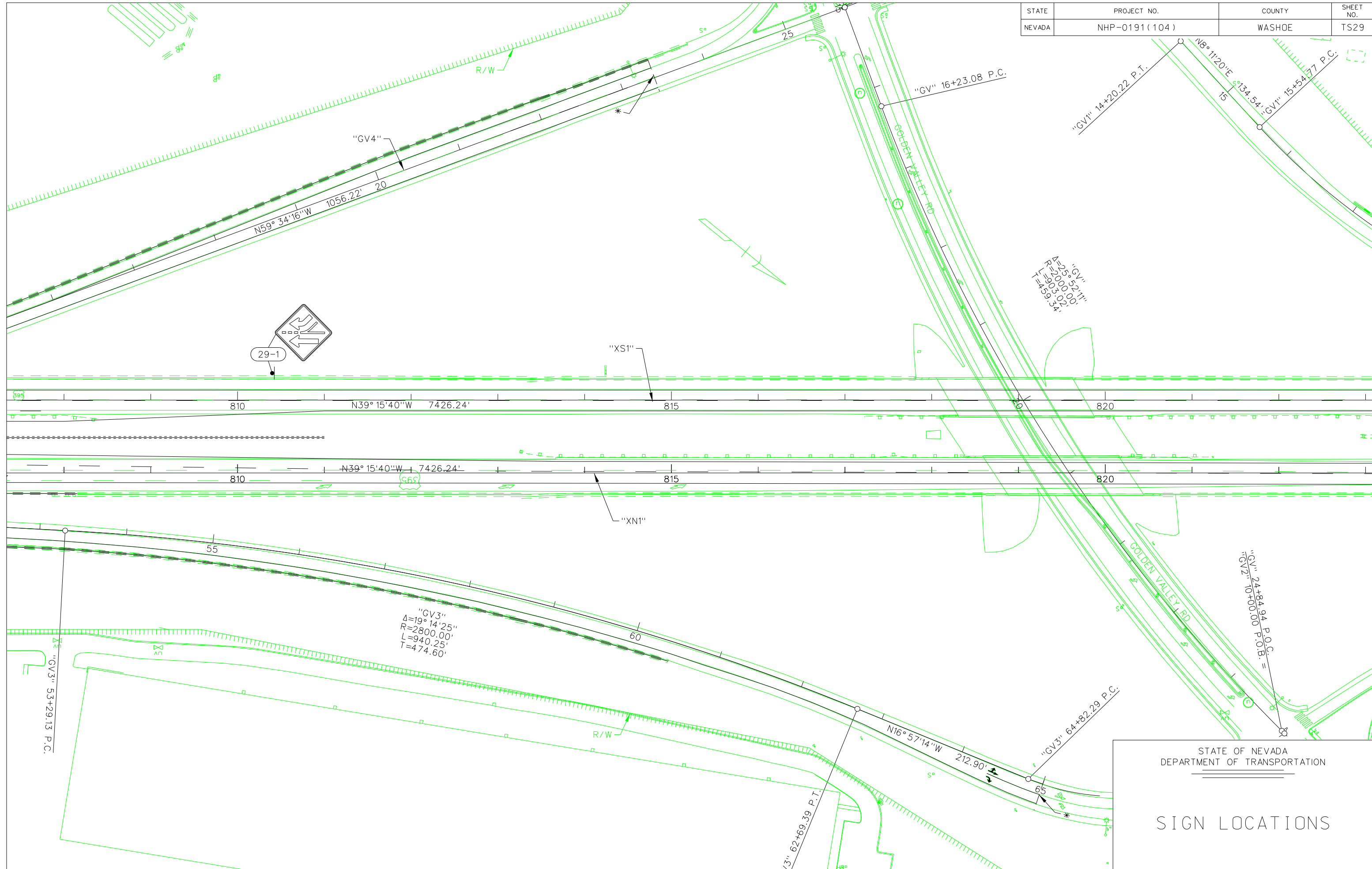
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS28



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS

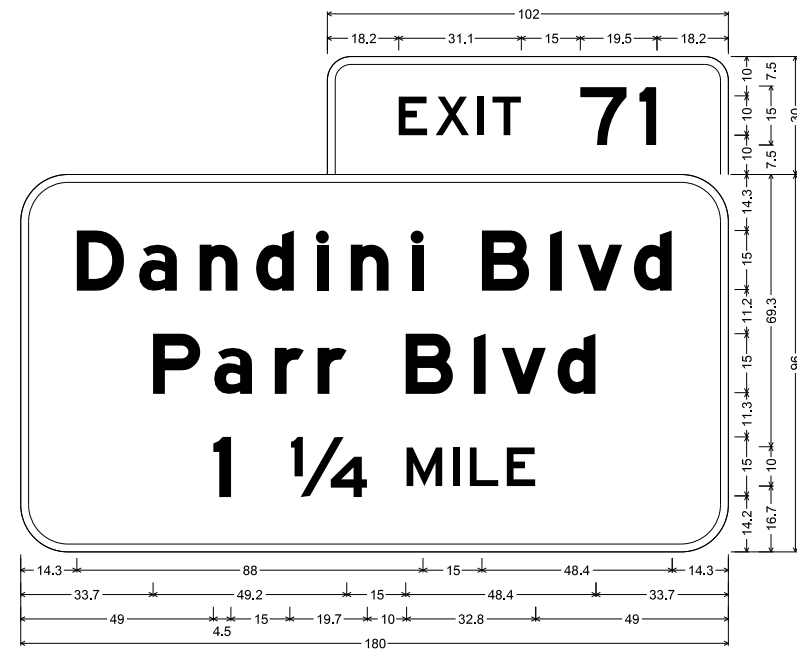
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS29



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS30



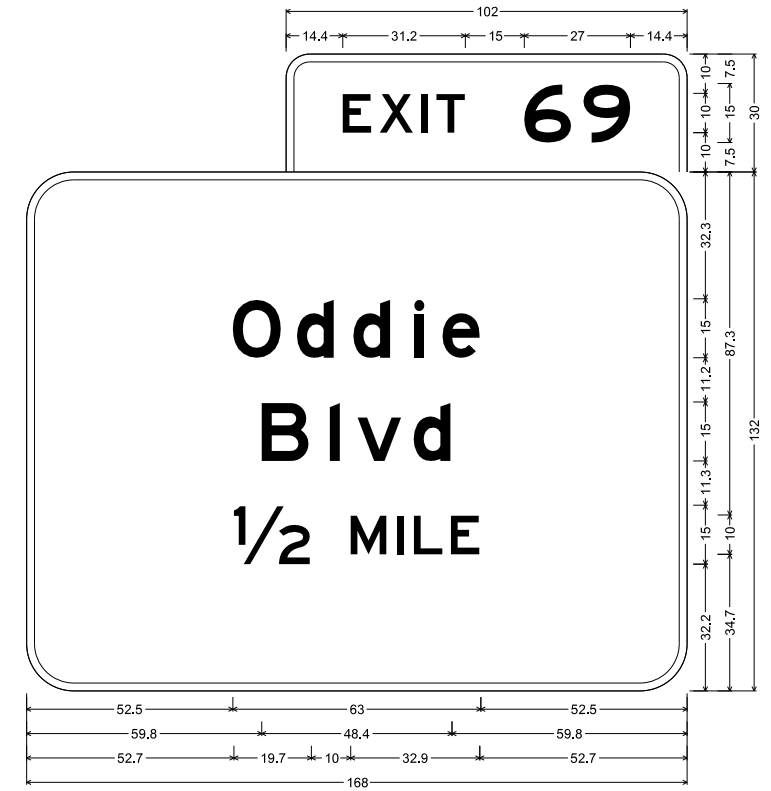
6.0" Radius, 2.0" Border, White on, Green;
 "EXIT", E: "71", E;
 12.0" Radius, 2.0" Border, White on, Green;
 "Dandini Blvd", E Mod; "Parr Blvd", E Mod; "1 1/4" E Mod " MILE", E;

16-2



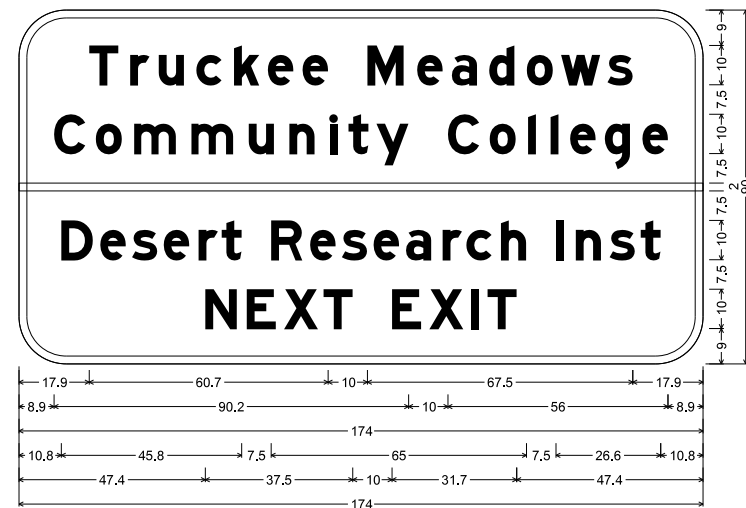
6.0" Radius, 2.0" Border, White on, Green;
 "EXIT", E: "68", E;
 12.0" Radius, 2.0" Border, White on, Green;
 "Sacramento", E; "Elko", E; "1 MILE", E;

16-4



6.0" Radius, 2.0" Border, White on, Green;
 "EXIT", E: "69", E;
 12.0" Radius, 2.0" Border, White on, Green;
 "Oddie", E; "Blvd", E; "1/2 MILE", E;

16-5



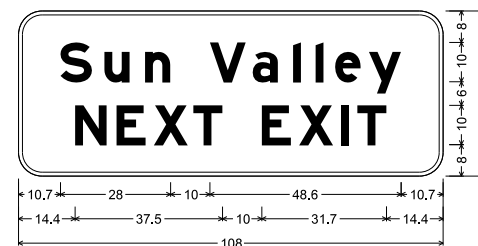
12.0" Radius, 2.0" Border, White on, Green;
 "Truckee Meadows", E Mod; "Community College", E Mod;
 "Desert Research Inst", E Mod 75% spacing; "NEXT EXIT", E Mod;

18-7 25-4



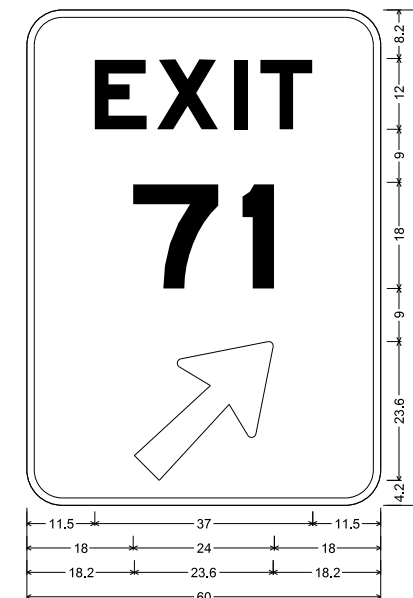
6.0" Radius, 1.0" Border, White on, Brown;
 "Countess Angela", E Mod; "Dandini Gardens", E Mod;

18-7 25-4



6.0" Radius, 1.0" Border, White on, Green;
 "Sun Valley", E Mod; "NEXT EXIT", E Mod;

19-6



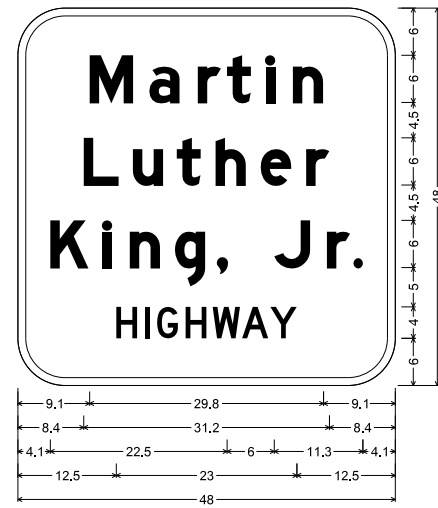
E5-1C_mod;
 6.0" Radius, 1.3" Border, White on, Green;
 "EXIT", E Mod 2K; "71", E Mod 2K;
 Arrow 133 - 30.0" 45°;

20-5

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

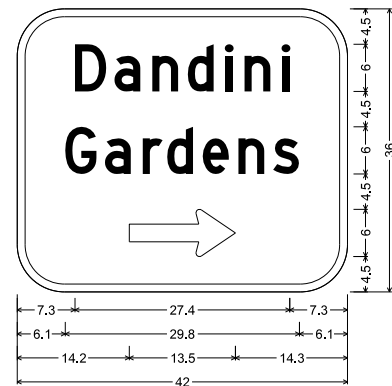
SIGN DETAILS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS31



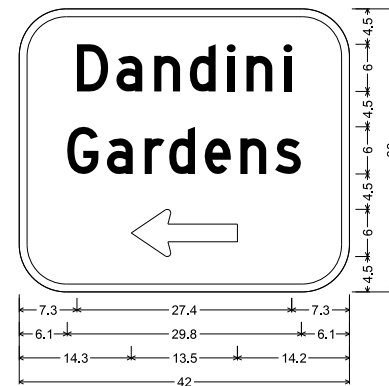
GNV26-1_54x36;
6.0" Radius, 1.0" Border, White on, Green;
"Martin", E Mod; "Luther", E Mod; "King, Jr.", E Mod;
"HIGHWAY", D;

20-2



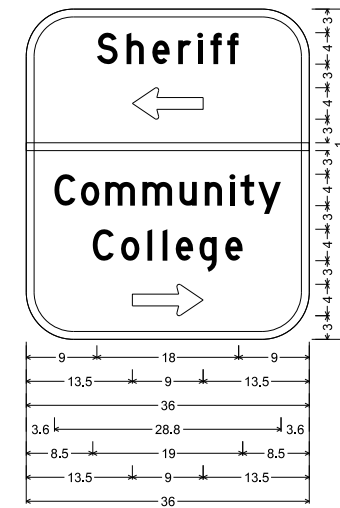
6.0" Radius, 1.0" Border, White on, Brown;
"Dandini", D 75% spacing;
"Gardens", D 75% spacing;
Standard Arrow Custom 13.5" X 6.0" 0°;

21-2



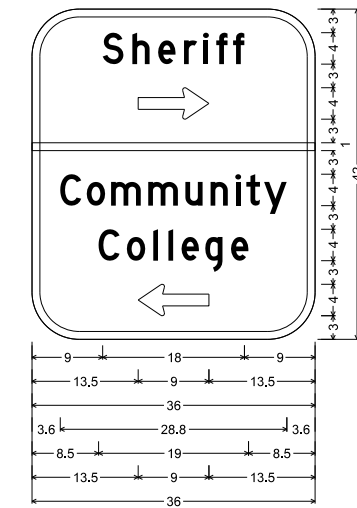
6.0" Radius, 1.0" Border, White on, Brown;
"Dandini", D 75% spacing;
"Gardens", D 75% spacing;
Standard Arrow Custom 13.5" X 6.0" 180°;

21-9



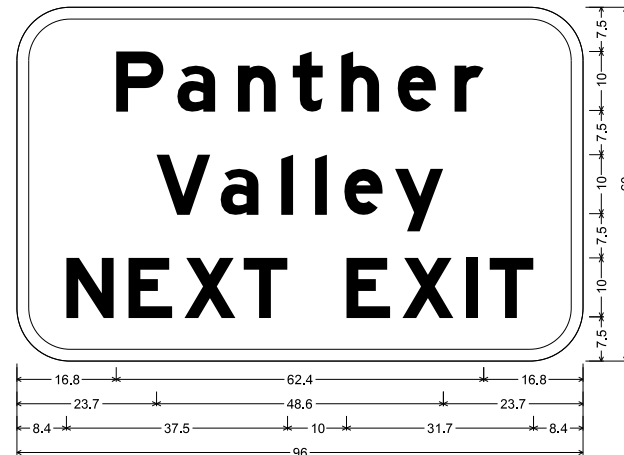
6.0" Radius, 1.0" Border, White on, Green;
"Sheriff", D;
Standard Arrow Custom 9.0" X 4.0" 180°;
"Community", D 75% spacing;
"College", D;
Standard Arrow Custom 9.0" X 4.0" 0°;

21-4



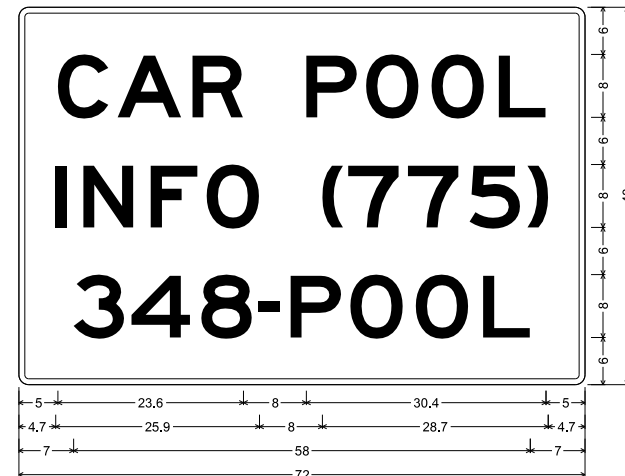
6.0" Radius, 1.0" Border, White on, Green;
"Sheriff", D;
Standard Arrow Custom 9.0" X 4.0" 0°;
"Community", D 75% spacing;
"College", D;
Standard Arrow Custom 9.0" X 4.0" 180°;

21-10



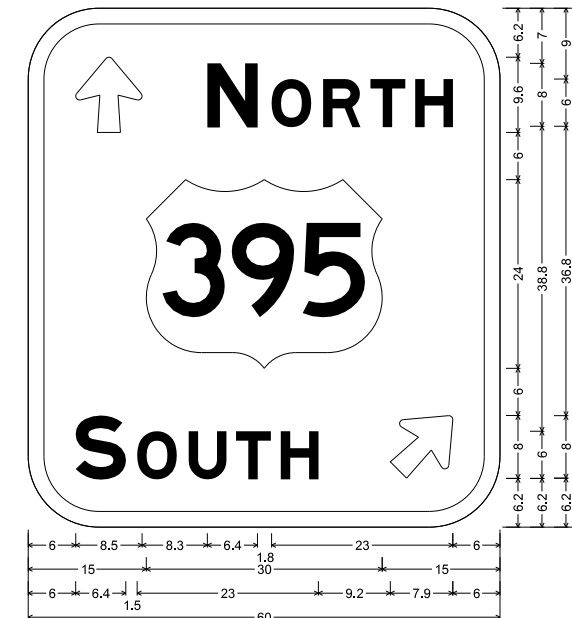
9.0" Radius, 2.0" Border, White on, Green;
"Panther", E Mod; "Valley", E Mod; "NEXT EXIT", E Mod;

23-1



1.3" Radius, 0.8" Border, White on, Blue;
"CAR POOL", E 2K; "INFO (775)", E 2K; "348-POOL", E 2K;

25-1



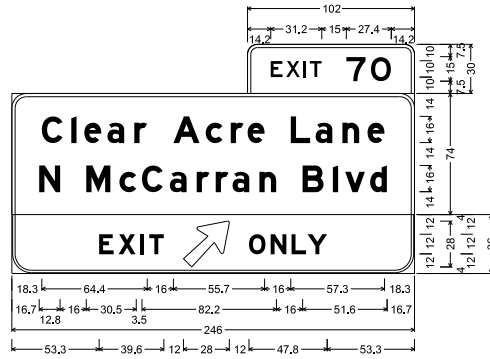
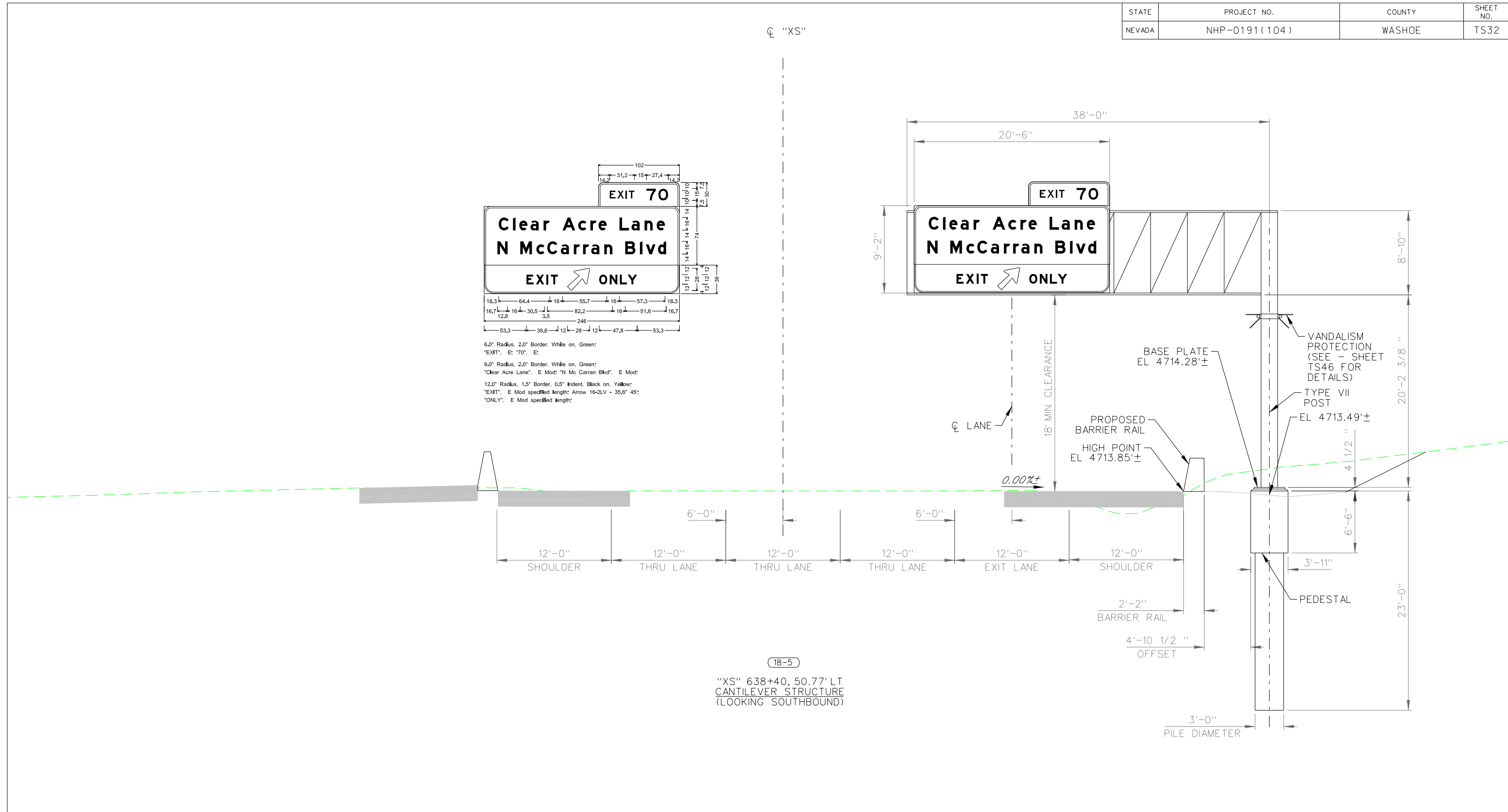
9.0" Radius, 2.0" Border, White on, Green;
Arrow 6-1L - 9.6" 90°; "NORTH", E Mod; "SOUTH", E Mod;
Arrow 6-1L - 9.6" 45°;

26-11

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

SIGN DETAILS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS32



6.0" Radius, 2.0" Border, White on, Green:
 "EXIT", E: "70", E;
 9.0" Radius, 2.0" Border, White on, Green:
 "Clear Acre Lane", E Mod; "N McCarran Blvd", E Mod;
 12.0" Radius, 1.5" Border, 0.5" Indent, Black on, Yellow:
 "EXIT", E Mod specified length: Arrow 16-2LV - 35.6" 45";
 "ONLY", E Mod specified length;

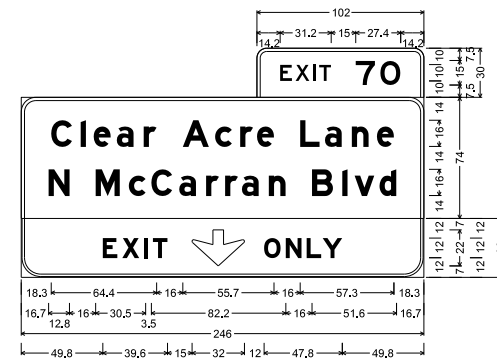
(18-5)
 "XS" 638+40, 50.77' LT
 CANTILEVER STRUCTURE
 (LOOKING SOUTHBOUND)

- NOTES:
- SEE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (2020) FOR SIGN STRUCTURE DETAILS OS-1 TO OS-16.
 - CONTRACTOR TO VERIFY ELEVATIONS IN THE FIELD BEFORE CONSTRUCTION.

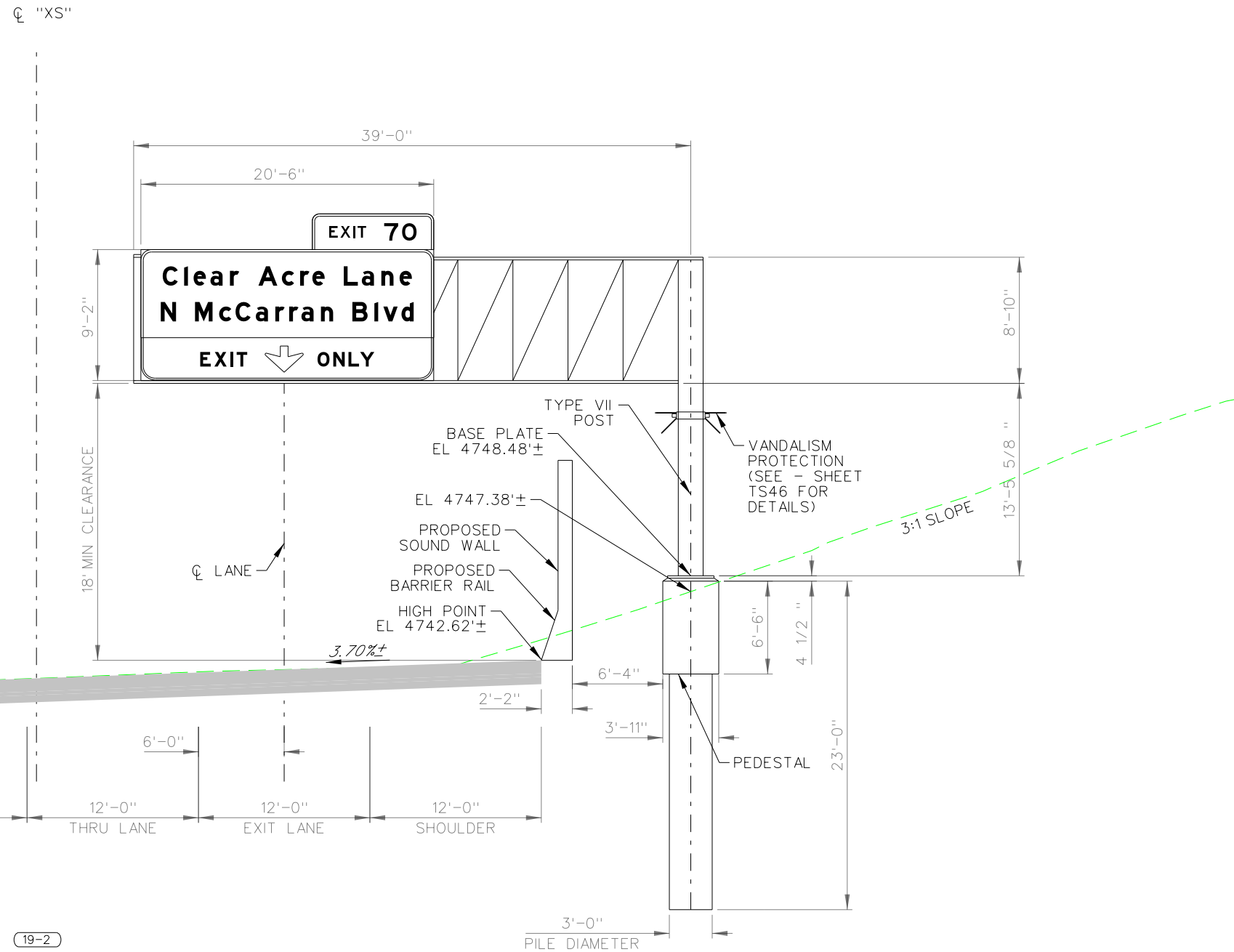
STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

SIGN STRUCTURE
 DETAIL

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS33



6.0" Radius, 2.0" Border, White on, Green;
 "EXIT", E: "70", E;
 9.0" Radius, 2.0" Border, White on, Green;
 "Clear Acre Lane", E Mod; "N McCarran Blvd", E Mod;
 12.0" Radius, 1.5" Border, 0.5" Indent, Black on, Yellow;
 "EXIT", E Mod specified length; Down Arrow 22.0" 270°;
 "ONLY", E Mod specified length;

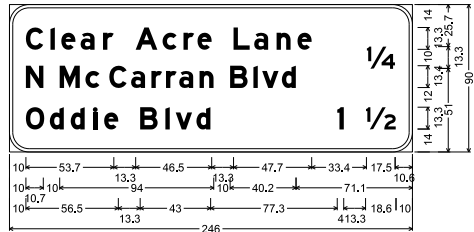


(19-2)
 "XS" 650+97, 45.80' LT
 CANTILEVER STRUCTURE
 (LOOKING SOUTHBOUND)

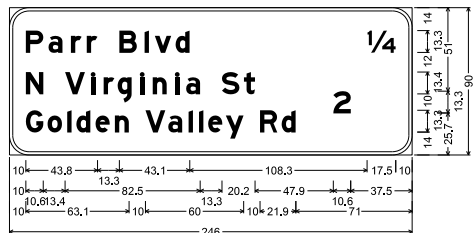
- NOTES:
- SEE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (2020) FOR SIGN STRUCTURE DETAILS OS-1 TO OS-16.
 - CONTRACTOR TO VERIFY ELEVATIONS IN THE FIELD BEFORE CONSTRUCTION.

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 SIGN STRUCTURE
 DETAIL

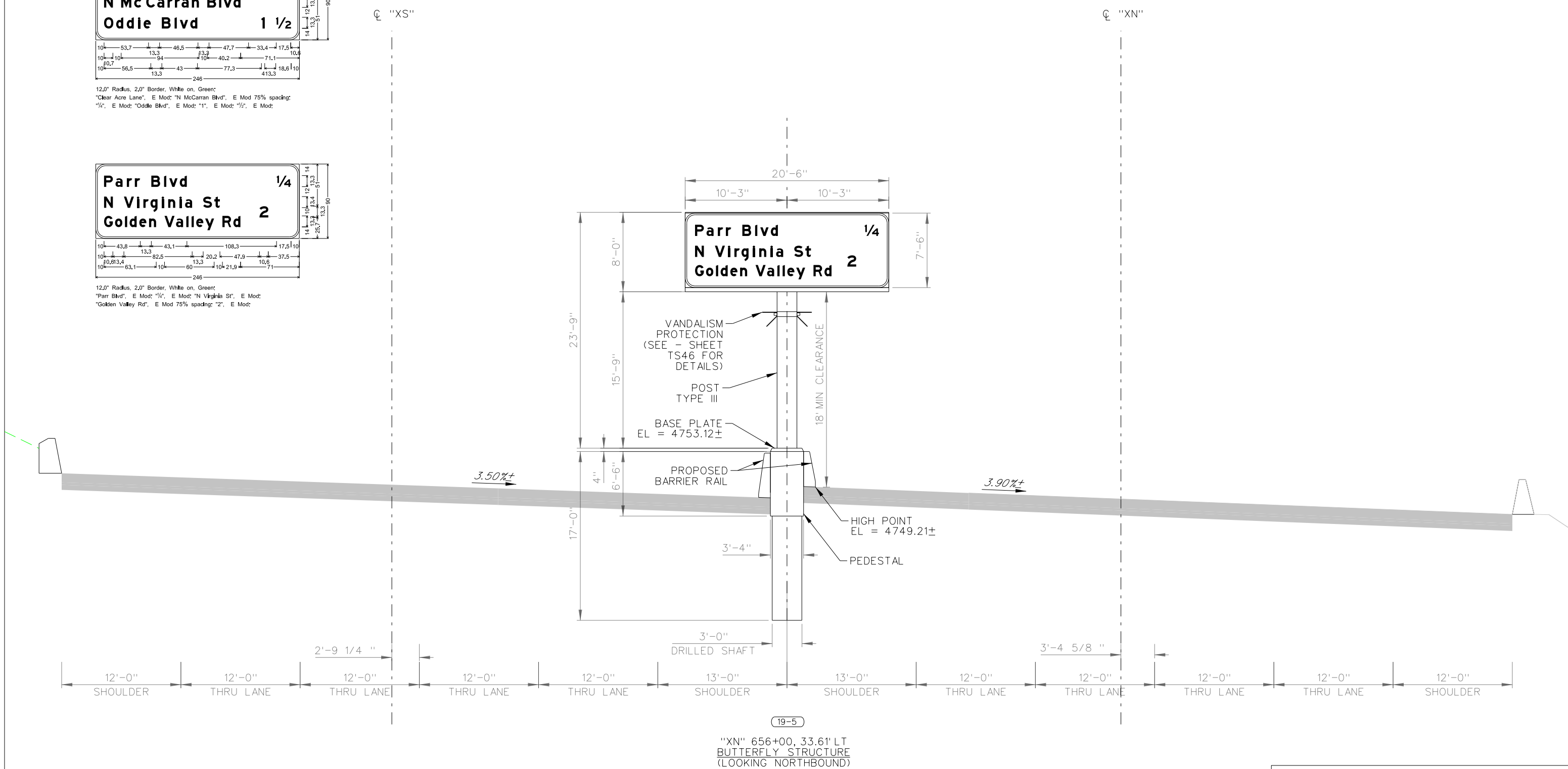
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS34



12.0" Radius, 2.0" Border, White on, Green;
 "Clear Acre Lane", E Mod: "N McCarran Blvd", E Mod 75% spacing;
 "1/4", E Mod: "Oddie Blvd", E Mod: "1", E Mod: "1/2", E Mod:



12.0" Radius, 2.0" Border, White on, Green;
 "Parr Blvd", E Mod: "1/4", E Mod: "N Virginia St", E Mod:
 "Golden Valley Rd", E Mod 75% spacing: "2", E Mod:

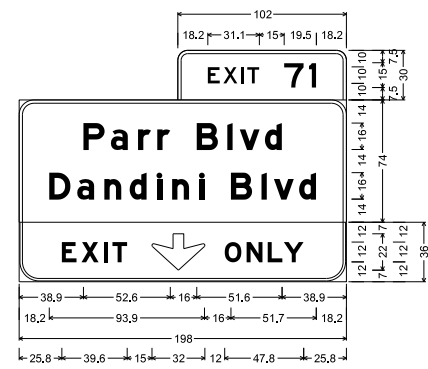


19-5
 "XN" 656+00, 33.61' LT
 BUTTERFLY STRUCTURE
 (LOOKING NORTHBOUND)

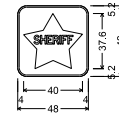
- NOTES:
- SEE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (2020) FOR SIGN STRUCTURE DETAILS OS-1 TO OS-16.
 - CONTRACTOR TO VERIFY ELEVATIONS IN THE FIELD BEFORE CONSTRUCTION.

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 SIGN STRUCTURE
 DETAIL

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS35

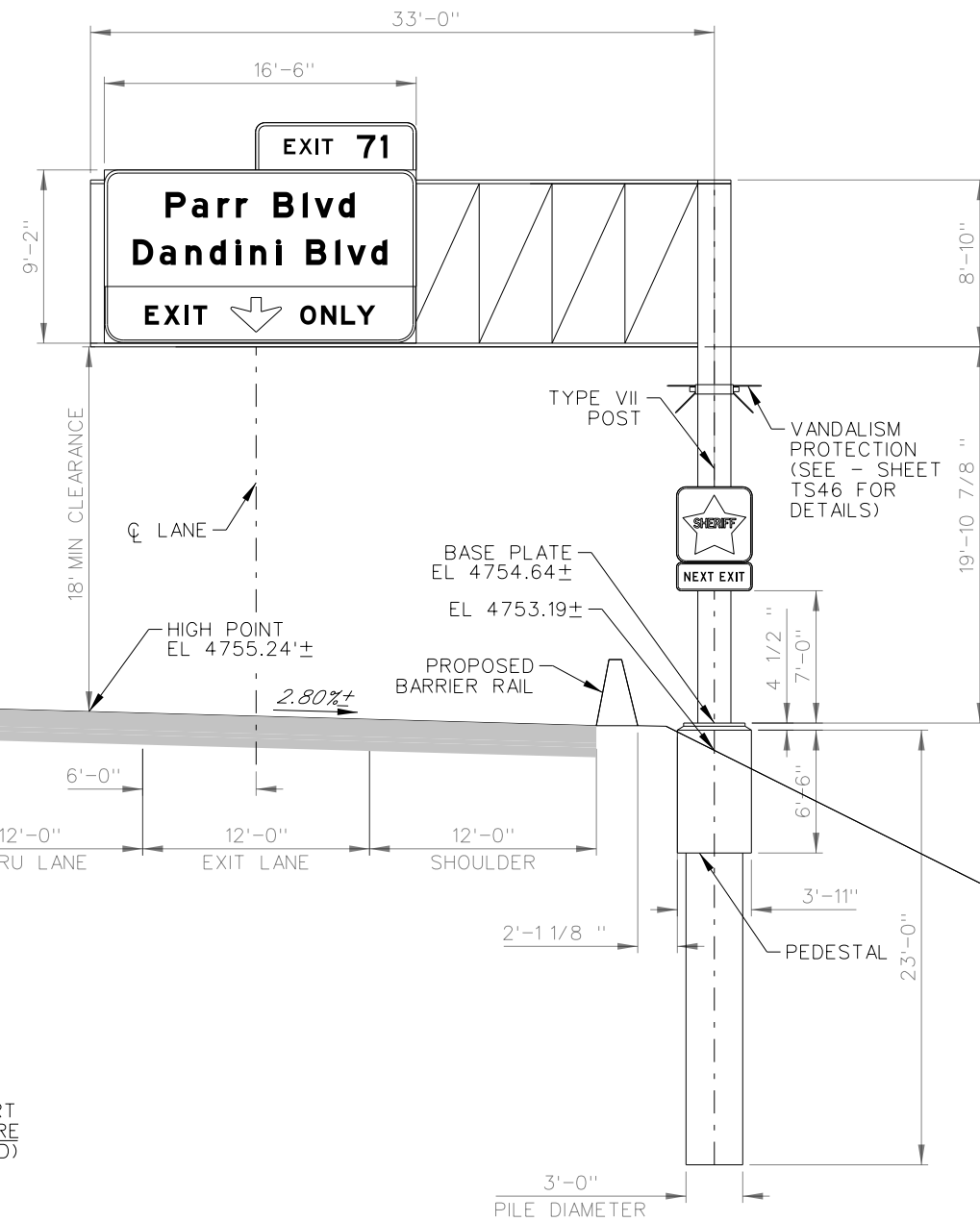


6.0" Radius, 2.0" Border, White on Green:
 "EXIT", E: "71", E:
 9.0" Radius, 2.0" Border, White on Green:
 "Parr Blvd", E Mod; "Dandini Blvd", E Mod;
 12.0" Radius, 1.5" Border, 0.5" Indent, Black on Yellow:
 "EXIT", E Mod specified length; Down Arrow 22.0" 270°;
 "ONLY", E Mod specified length;



G66-61, modified;
 6.0" Radius, 1.0" Border, White on Blue;
 "NEXT EXIT"
 3.0" Radius, 1.0" Border, White on Blue;
 "NEXT EXIT", D;

☉ "XN"



(19-8)
 "XN" 660+36, 43.20' RT
 CANTILEVER STRUCTURE
 (LOOKING NORTHBOUND)

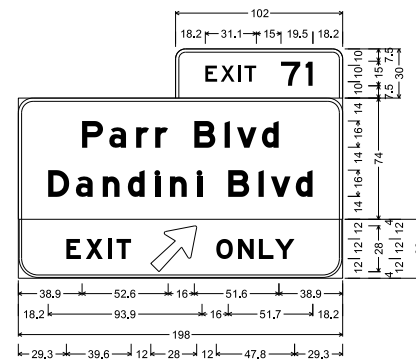
NOTES:

- SEE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (2020) FOR SIGN STRUCTURE DETAILS OS-1 TO OS-16.
- CONTRACTOR TO VERIFY ELEVATIONS IN THE FIELD BEFORE CONSTRUCTION.

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

SIGN STRUCTURE
 DETAIL

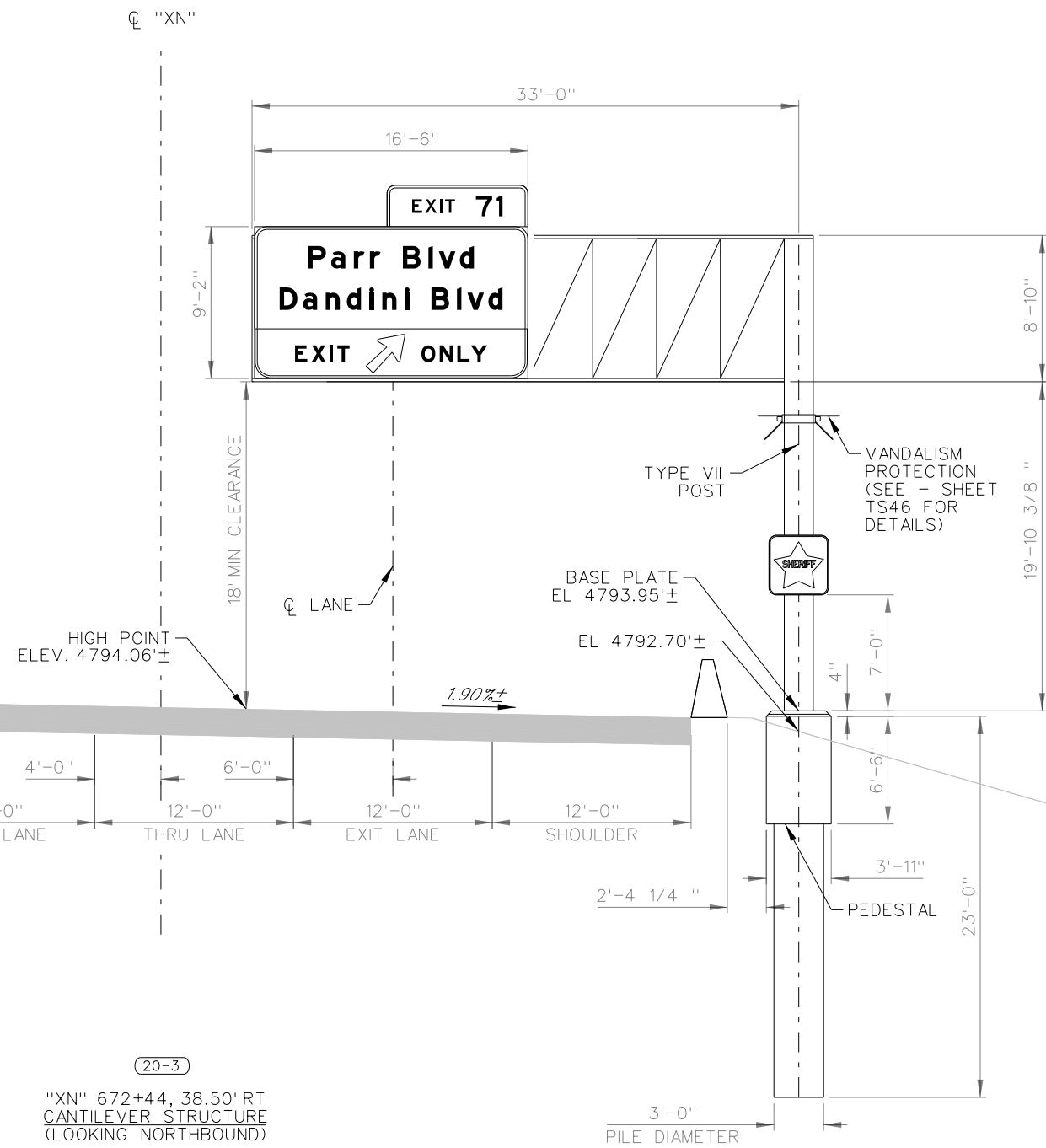
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS36



6.0" Radius, 2.0" Border, White on, Green:
 "EXIT", E: "71", E:
 9.0" Radius, 2.0" Border, White on, Green:
 "Parr Blvd", E Mod; "Dandini Blvd", E Mod;
 12.0" Radius, 1.5" Border, 0.5" Indent, Black on, Yellow:
 "EXIT", E Mod specified length;
 Arrow 16-2LV - 35.6" 45°;
 "ONLY", E Mod specified length;



G66-61_modified;
 6.0" Radius, 1.0" Border, White on Blue;



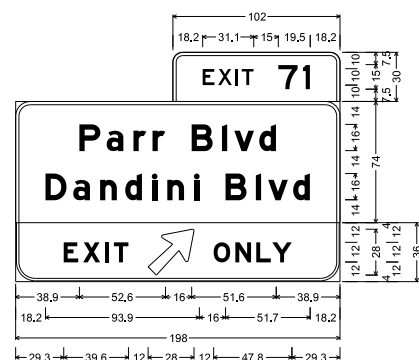
NOTES:

- SEE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (2020) FOR SIGN STRUCTURE DETAILS OS-1 TO OS-16.
- CONTRACTOR TO VERIFY ELEVATIONS IN THE FIELD BEFORE CONSTRUCTION.

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

 SIGN STRUCTURE
 DETAIL

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS37

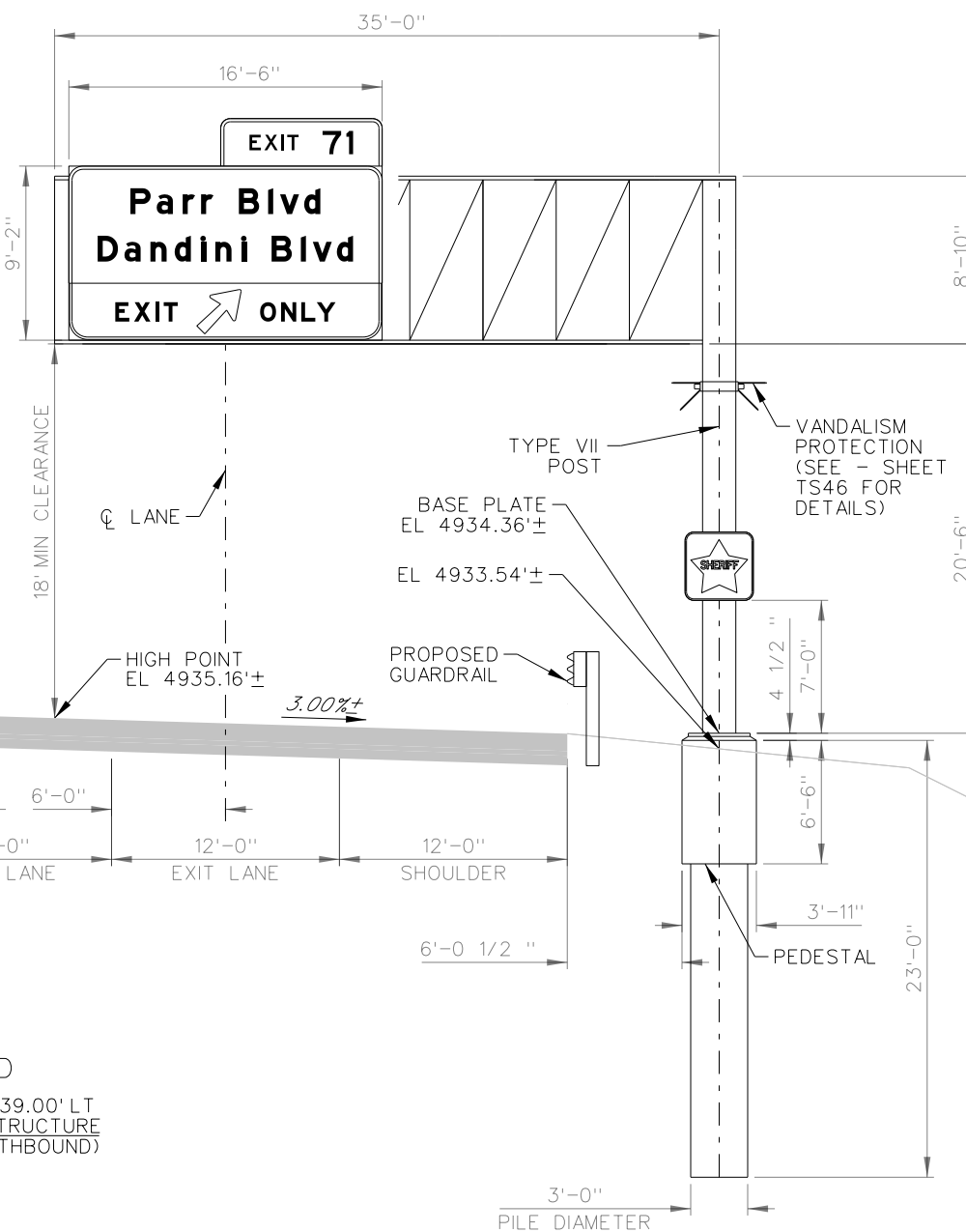


6.0" Radius, 2.0" Border, White on, Green;
 "EXIT", E: "71", E;
 9.0" Radius, 2.0" Border, White on, Green;
 "Parr Blvd", E Mod: "Dandini Blvd", E Mod;
 12.0" Radius, 1.5" Border, 0.5" Indent, Black on, Yellow;
 "EXIT", E Mod specified length;
 Arrow 16-2LV - 35.6" AS;
 "ONLY", E Mod specified length;



G66-61_modified:
 6.0" Radius, 1.0" Border, White on Blue;

☉ "XS"



(22-3)

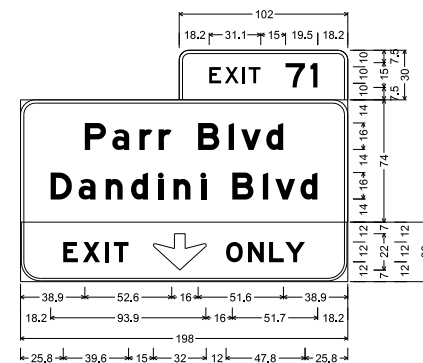
"XS" 710+48, 39.00' LT
 CANTILEVER STRUCTURE
 (LOOKING SOUTHBOUND)

NOTES:

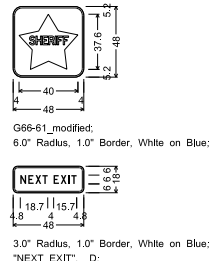
- SEE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (2020) FOR SIGN STRUCTURE DETAILS OS-1 TO OS-16.
- CONTRACTOR TO VERIFY ELEVATIONS IN THE FIELD BEFORE CONSTRUCTION.

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 SIGN STRUCTURE
 DETAIL

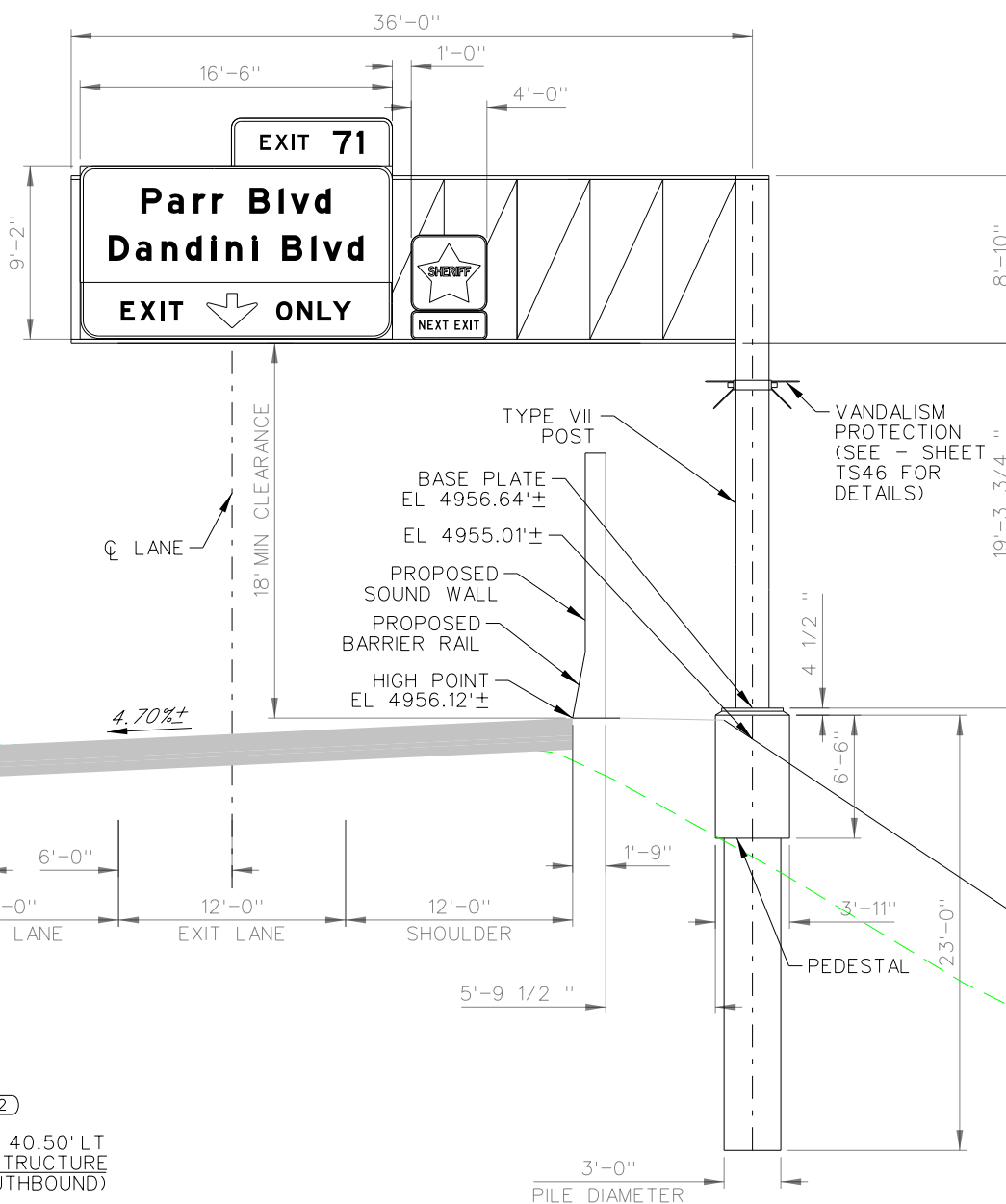
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS38



6.0" Radius, 2.0" Border, White on, Green:
 "EXIT", E: "71", E:
 9.0" Radius, 2.0" Border, White on, Green:
 "Parr Blvd", E Mod; "Dandini Blvd", E Mod;
 12.0" Radius, 1.5" Border, 0.5" Indent, Black on, Yellow:
 "EXIT", E Mod specified length; Down Arrow 22.0° 270°;
 "ONLY", E Mod specified length;



☉ "XS"

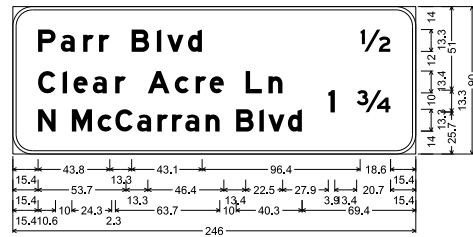


"XS" 724+33, 40.50' LT
 CANTILEVER STRUCTURE
 (LOOKING SOUTHBOUND)

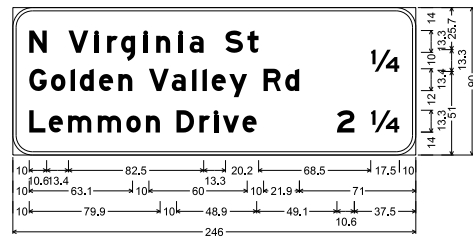
- NOTES:
- SEE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (2020) FOR SIGN STRUCTURE DETAILS OS-1 TO OS-16.
 - CONTRACTOR TO VERIFY ELEVATIONS IN THE FIELD BEFORE CONSTRUCTION.

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 SIGN STRUCTURE
 DETAIL

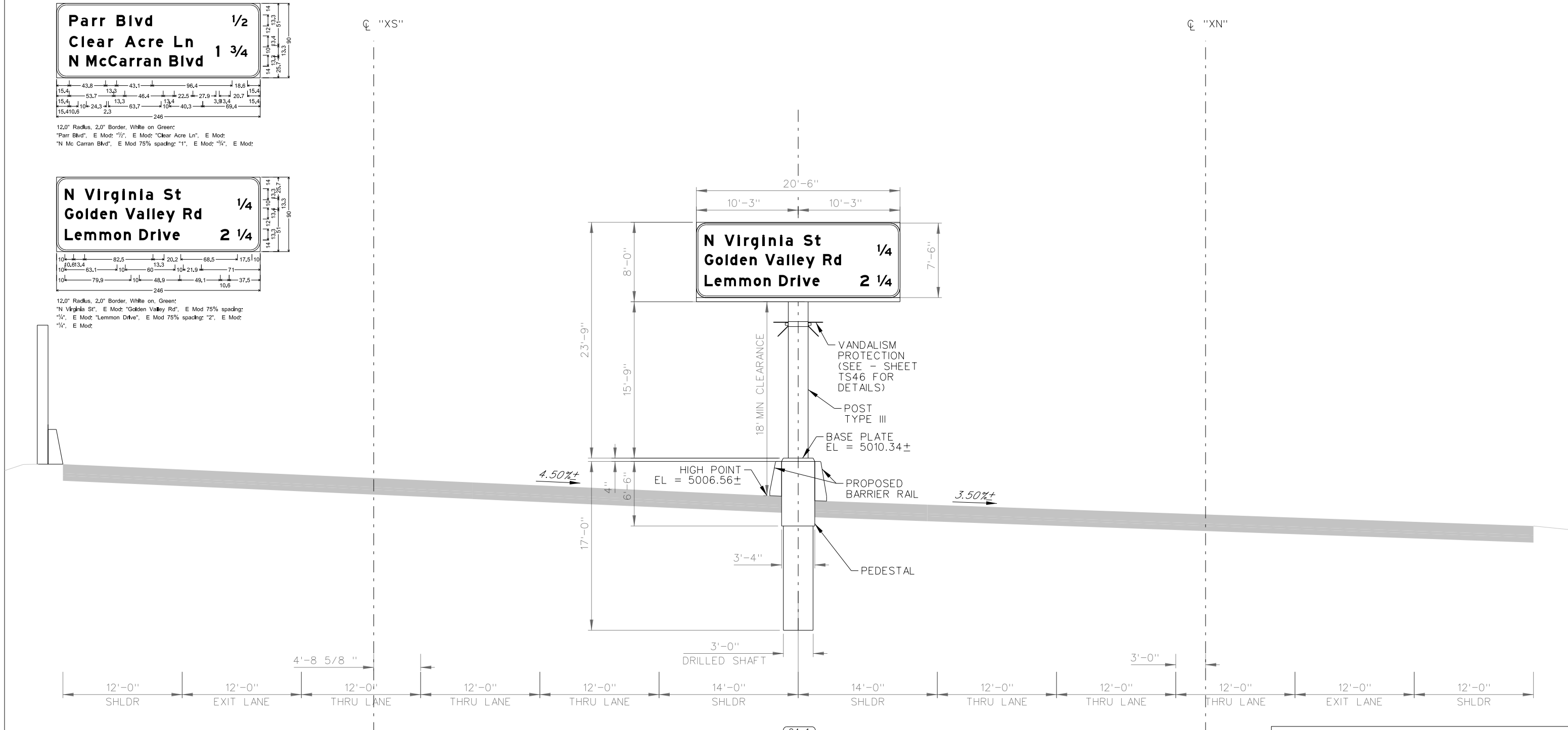
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS39



12.0" Radius, 2.0" Border, White on Green:
 "Parr Blvd", E Mod: "1/2", E Mod: "Clear Acre Ln", E Mod:
 "N Mc Carran Blvd", E Mod 75% spacing: "1", E Mod: "1/2", E Mod:



12.0" Radius, 2.0" Border, White on Green:
 "N Virginia St", E Mod: "Golden Valley Rd", E Mod 75% spacing:
 "1/4", E Mod: "Lemmon Drive", E Mod 75% spacing: "2", E Mod:
 "1/4", E Mod:

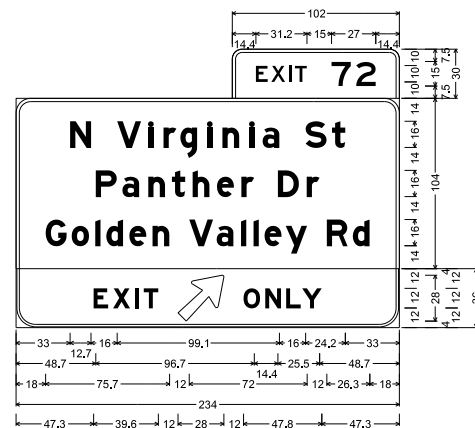


(24-1)
 "XN" 735+30, 41.00' LT
 BUTTERFLY STRUCTURE
 (LOOKING NORTHBOUND)

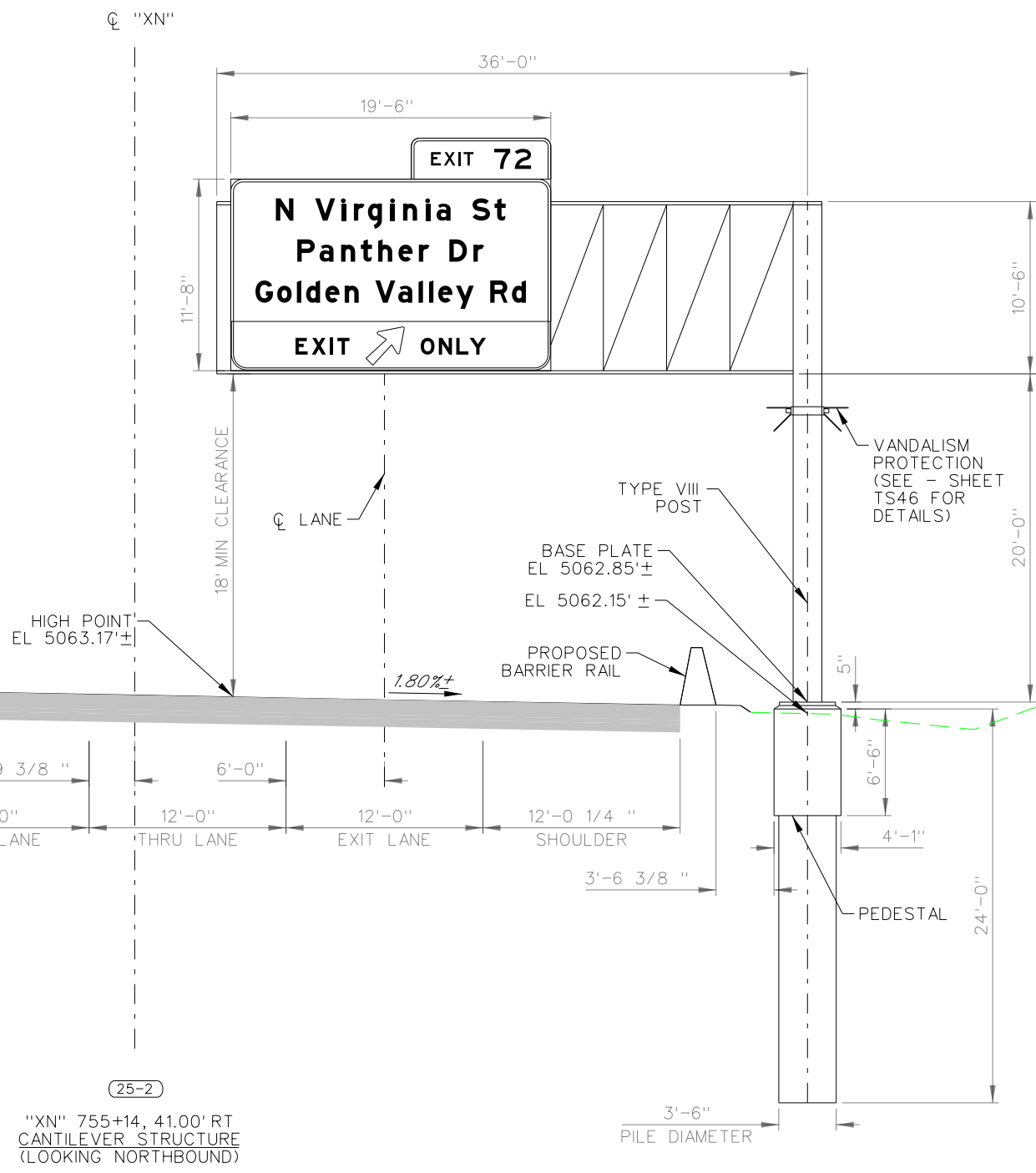
- NOTES:
- SEE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (2020) FOR SIGN STRUCTURE DETAILS OS-1 TO OS-16.
 - CONTRACTOR TO VERIFY ELEVATIONS IN THE FIELD BEFORE CONSTRUCTION.

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 SIGN STRUCTURE
 DETAIL

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS41



6.0" Radius, 2.0" Border, White on Green;
 "EXIT", E Mod "72", E;
 9.0" Radius, 2.0" Border, White on Green;
 "N Virginia St", E Mod "Panther Dr", E Mod 90% spacing;
 "Golden Valley Rd", E Mod 75% spacing;
 12.0" Radius, 1.5" Border, 0.5" Indent, Black on Yellow;
 "EXIT", E Mod specified length Arrow 16-2LV - 35.6" 45";
 "ONLY", E Mod specified length;



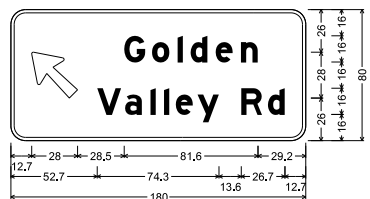
"XN" 755+14, 41.00' RT
 CANTILEVER STRUCTURE
 (LOOKING NORTHBOUND)

- NOTES:
- SEE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (2020) FOR SIGN STRUCTURE DETAILS OS-1 TO OS-16.
 - CONTRACTOR TO VERIFY ELEVATIONS IN THE FIELD BEFORE CONSTRUCTION.

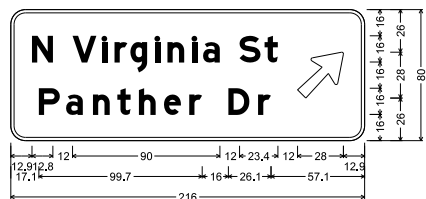
STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

**SIGN STRUCTURE
 DETAIL**

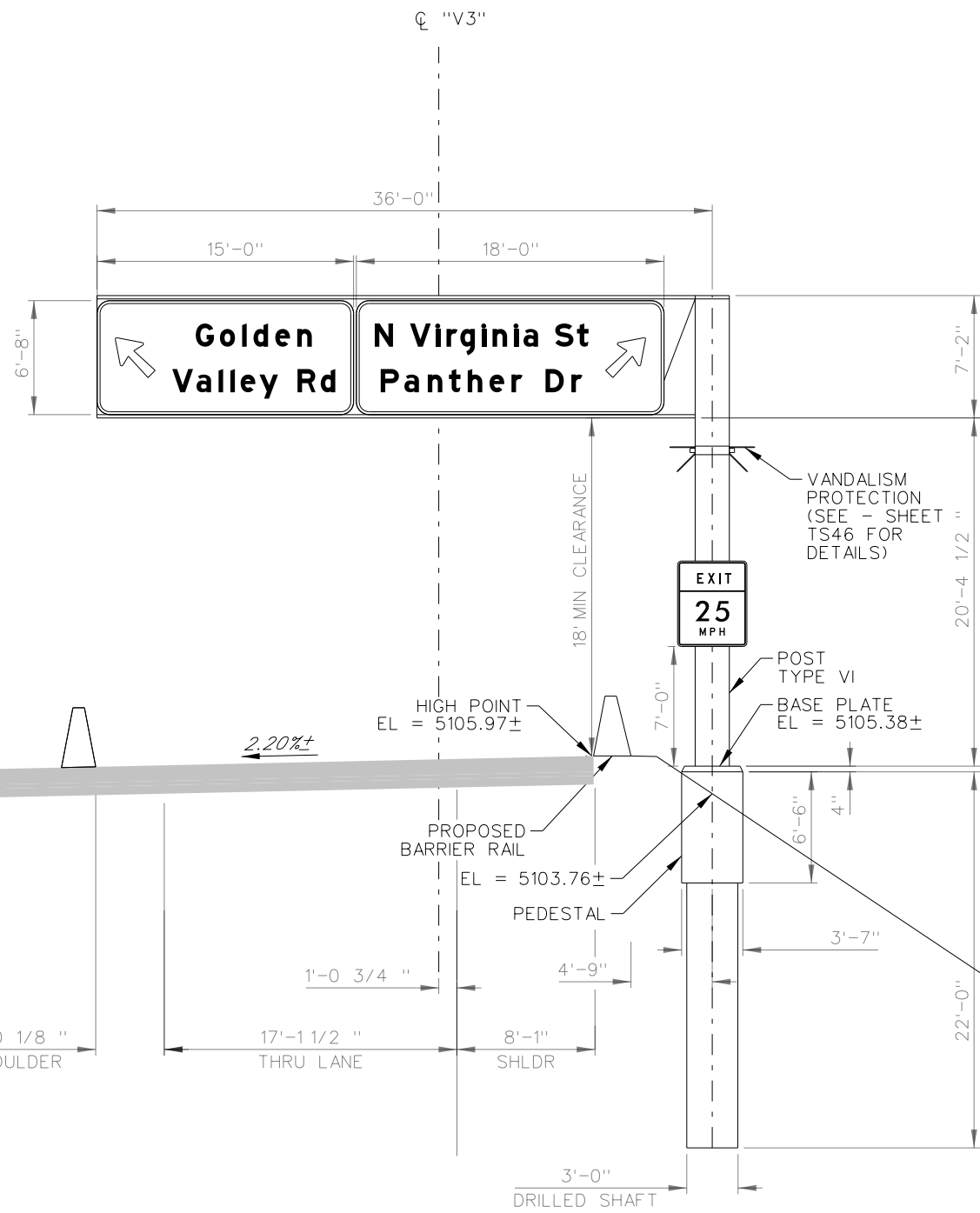
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS42



9.0" Radius, 2.0" Border, White on Green;
Arrow 16-2LV - 35.6" 135"; "Golden", E Mod;
"Valley Rd", E Mod 85% spacing;



9.0" Radius, 2.0" Border, White on Green;
"N Virginia St", E Mod 75% spacing; "Panther Dr", E Mod;
Arrow 16-2LV - 35.6" 45";



26-4

"V3" 11+50, 16.00' RT
CANTILEVER STRUCTURE
(LOOKING NORTHBOUND)

NOTES:

1. SEE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (2020) FOR SIGN STRUCTURE DETAILS OS-1 TO OS-16.
2. CONTRACTOR TO VERIFY ELEVATIONS IN THE FIELD BEFORE CONSTRUCTION.

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

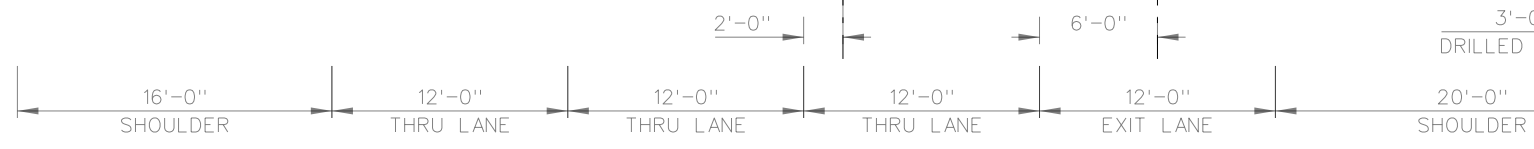
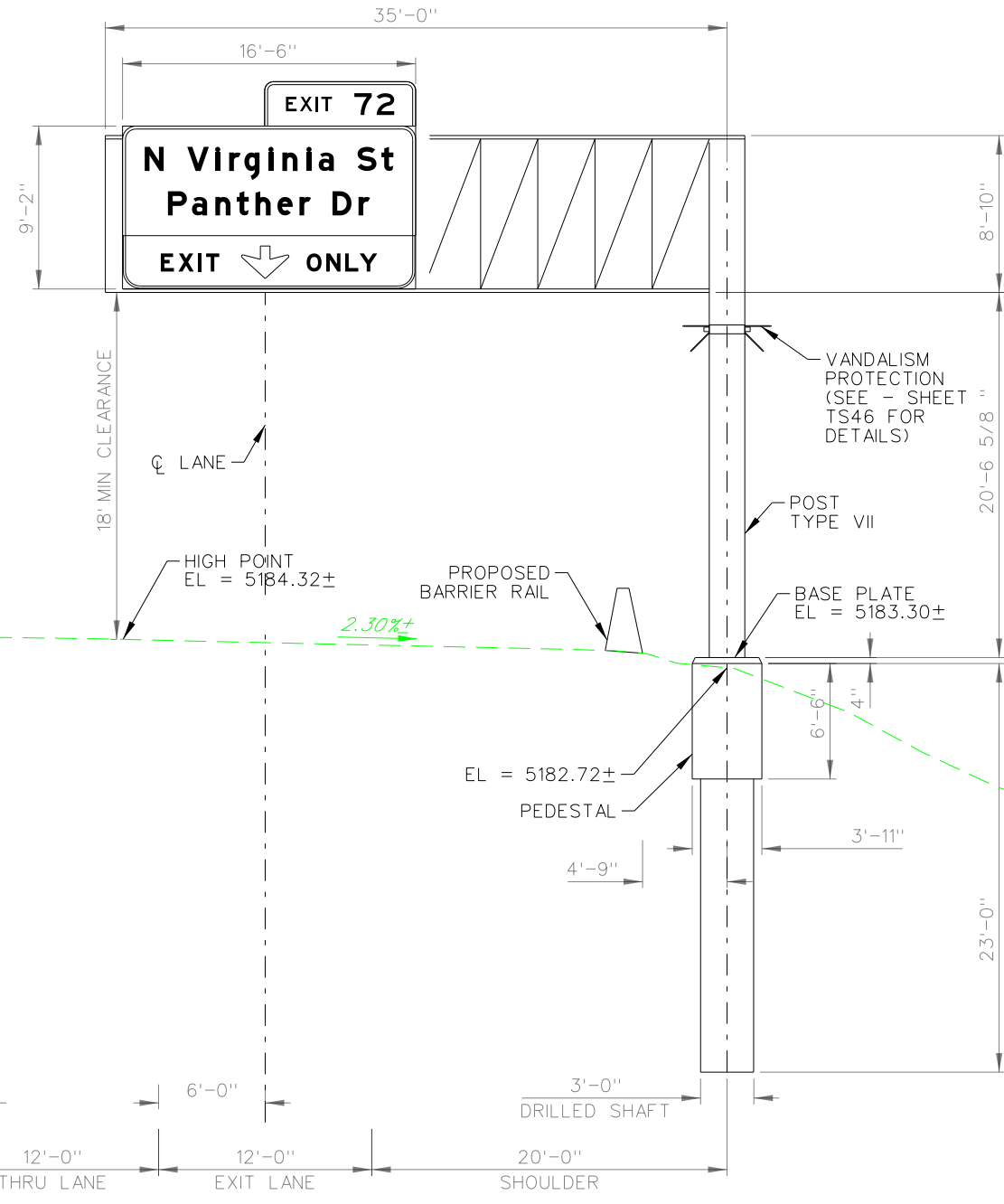
SIGN STRUCTURE
DETAIL

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS44



6.0" Radius, 2.0" Border, White on Green:
 "EXIT", E; "72", E;
 9.0" Radius, 2.0" Border, White on Green:
 "N Virginia St", E Mod;
 "Panther Dr", E Mod 90% spacing;
 12.0" Radius, 1.5" Border, 0.5" Indent, Black on Yellow:
 "EXIT", E Mod specified length; Down Arrow 22.0" 270";
 "ONLY", E Mod specified length;

☉ "XS"

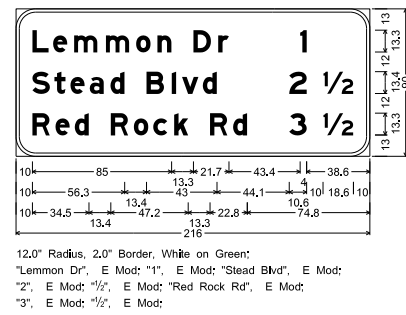
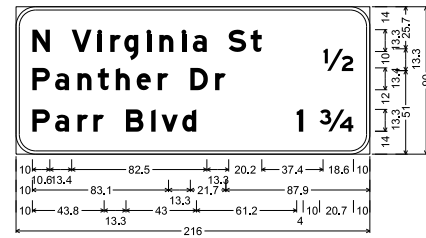


(28-2)
 "XS1" 794+93, 42.00' LT
 CANTILEVER STRUCTURE
 (LOOKING SOUTHBOUND)

- NOTES:
- SEE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (2020) FOR SIGN STRUCTURE DETAILS OS-1 TO OS-16.
 - CONTRACTOR TO VERIFY ELEVATIONS IN THE FIELD BEFORE CONSTRUCTION.

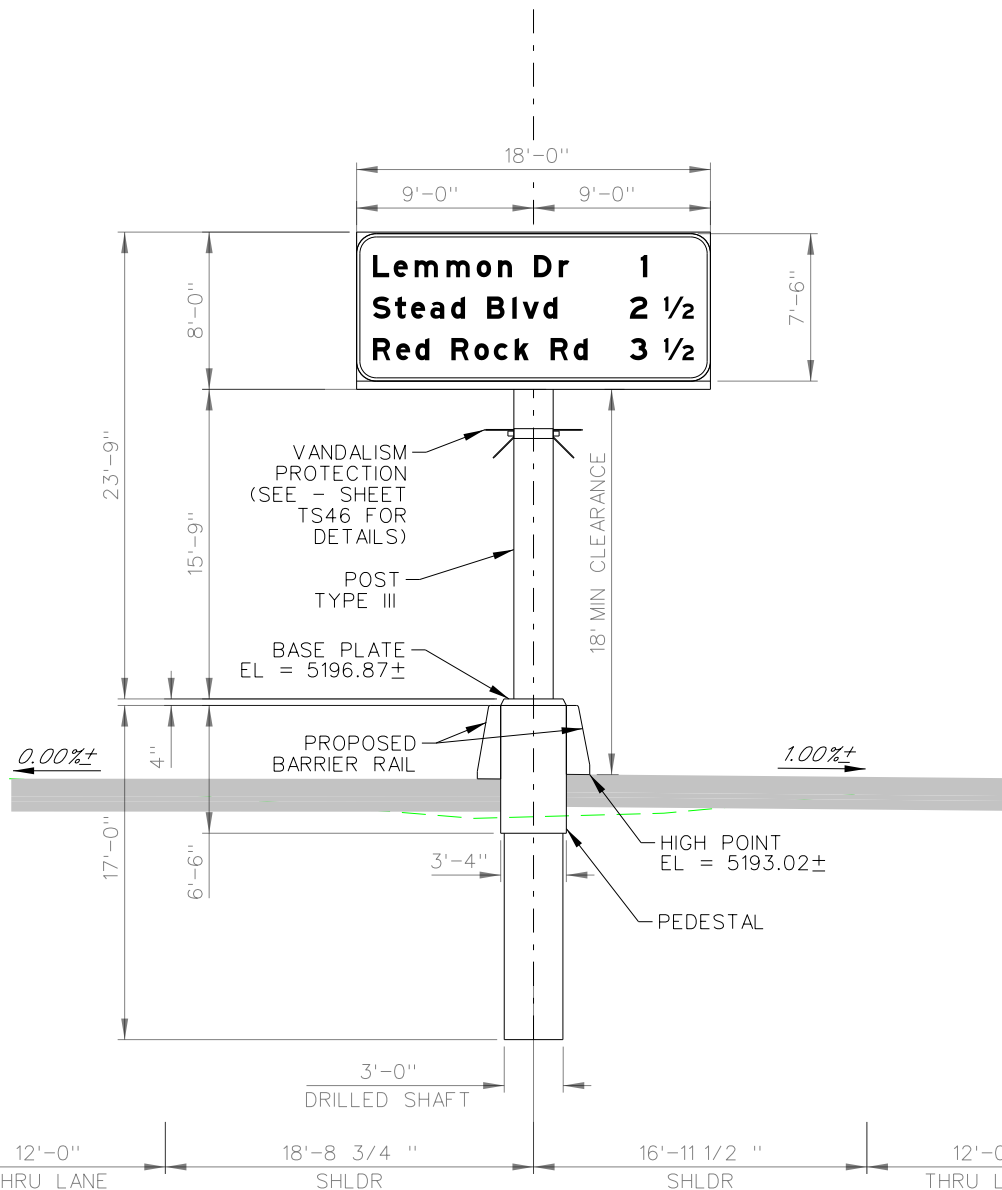
STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 SIGN STRUCTURE
 DETAIL

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS45



☉ "XS"

☉ "XN"



(28-5)

"XN1" 805+40, 40.77' LT
 BUTTERFLY STRUCTURE
 (LOOKING NORTHBOUND)

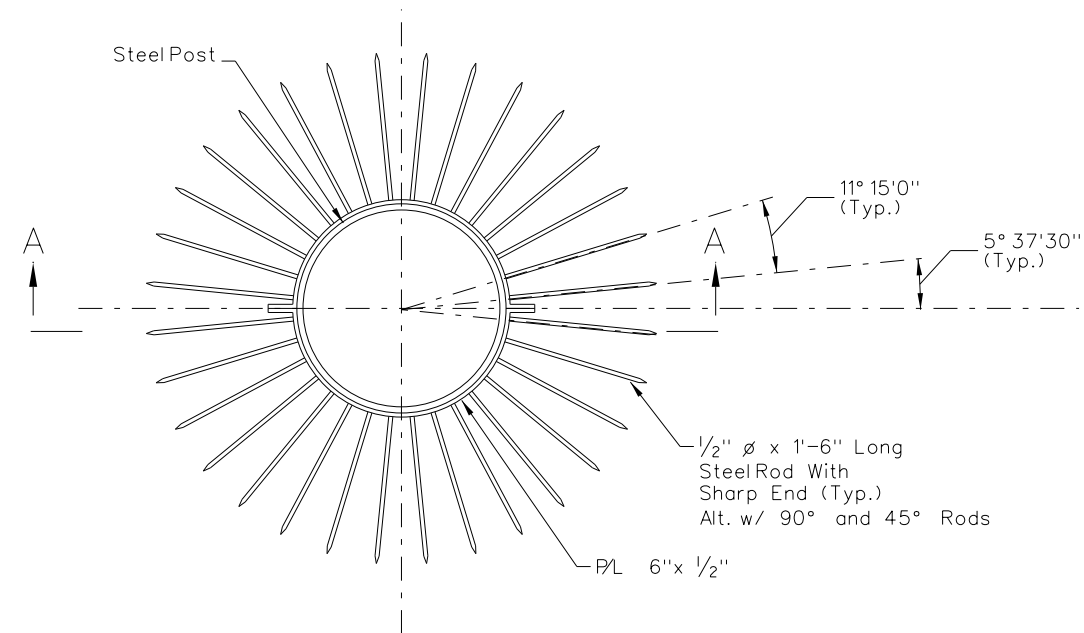
NOTES:

- SEE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (2020) FOR SIGN STRUCTURE DETAILS OS-1 TO OS-16.
- CONTRACTOR TO VERIFY ELEVATIONS IN THE FIELD BEFORE CONSTRUCTION.

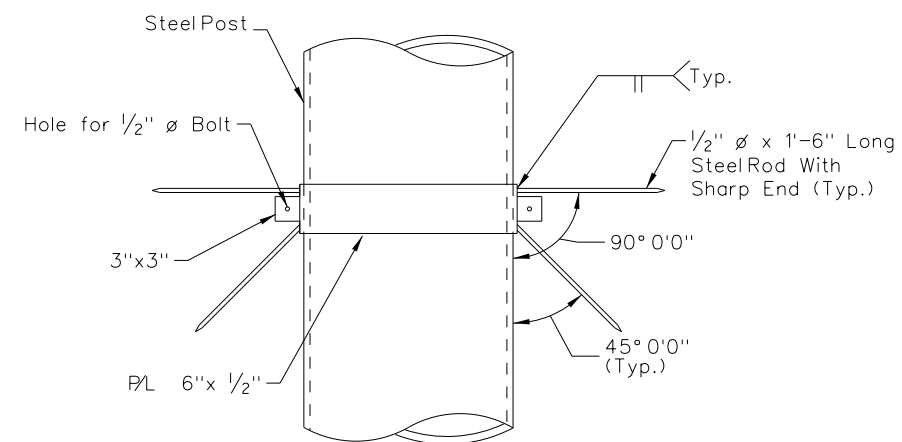
STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

SIGN STRUCTURE
 DETAIL

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS46



VANDALISM PROTECTION PLAN



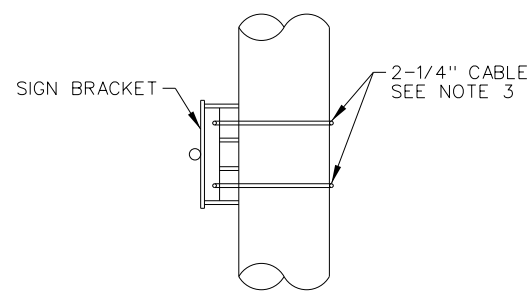
SECTION A-A

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

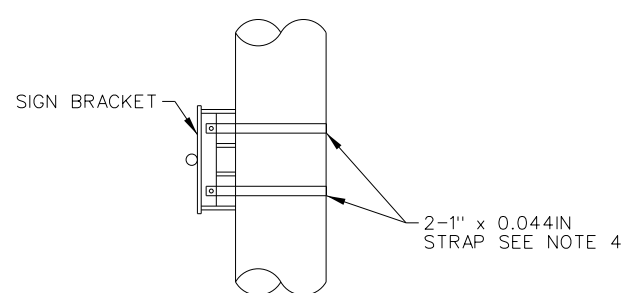
VANDALISM PROTECTION

TABLE 1

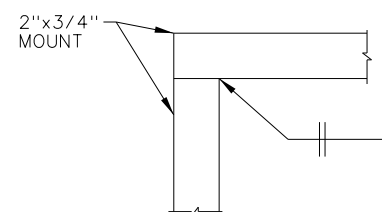
POST DIAMETER	STRAP TENSION	CABLE TENSION
2 1/2" TO 4"	37KSI	35KSI
GREATER THAN 4"	31KSI	



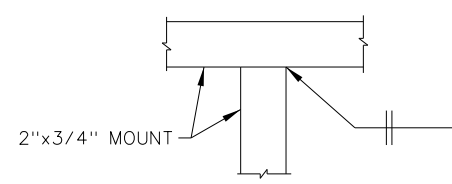
DETAIL 1 CABLE ATTACHMENT



DETAIL 2 STRAP ATTACHMENT



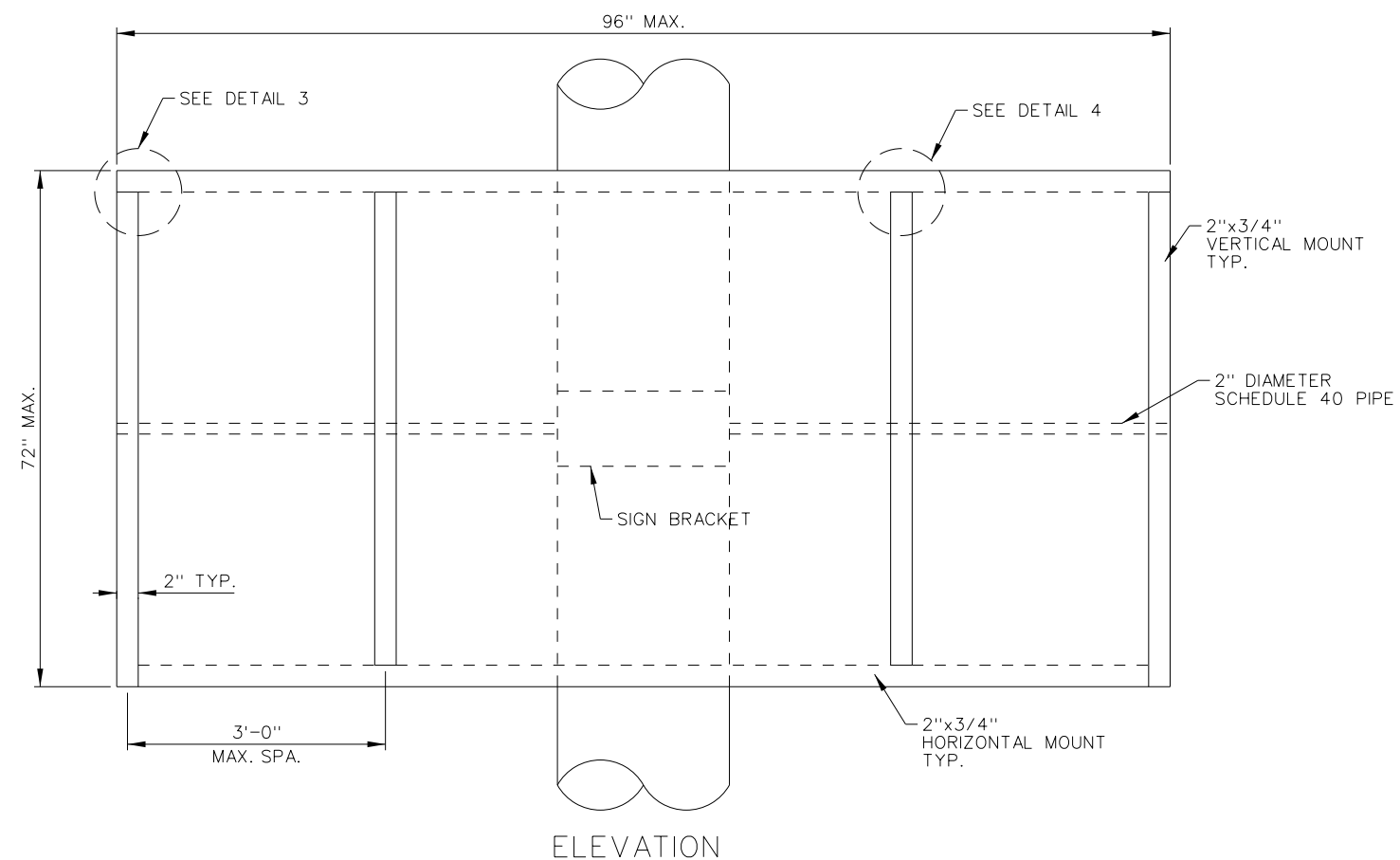
DETAIL 3



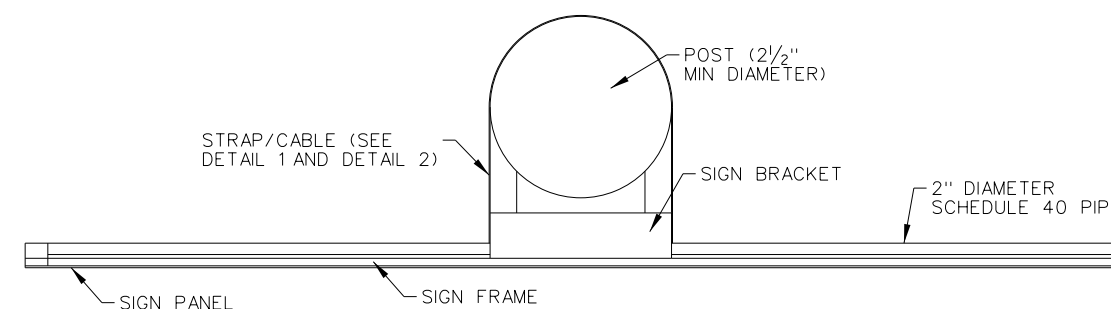
DETAIL 4

NOTES:

- SIGN BRACKET MANUFACTURER RESPONSIBLE FOR CONNECTION OF PIPE SUPPORT TO SIGN BRACKET AND VERTICAL MOUNTS TO PIPE SUPPORT. VERTICAL AND HORIZONTAL MOUNTS SHALL BE ASTM A36 STEEL. PIPE SUPPORT SHALL BE ASTM A53, GRADE B. GALVANIZE SIGN SUPPORT BRACKET, MOUNTS, AND PIPE AFTER FABRICATION.
- FOR SIGNS GREATER THAN 72" IN HEIGHT, USE MULTIPLE SIGN SUPPORT BUCKETS AT EQUAL SPACINGS NOT TO EXCEED 72".
- CABLE ATTACHMENT OPTION SHALL UTILIZE GALVANIZED STEEL CABLE WITH A MINIMUM TENSILE CAPACITY OF 3400LBS. CABLE SHALL BE STRESSED TO THE MINIMUM TENSION SHOWN IN TABLE 1 WHEN ATTACHING SIGN BRACKET.
- STRAP ATTACHMENT OPTION SHALL UTILIZE GALVANIZED STEEL STRAP WITH A MINIMUM TENSILE CAPACITY OF 3300LBS. STRAP SHALL BE STRESSED TO THE MINIMUM TENSION SHOWN IN TABLE 1. MULTIPLE STRAPS MAY BE COMBINED TO ATTAIN THE MINIMUM STRAP DEPTH. FOR POSTS LESS THAN 4" DIAMETER, NEOPRENE SHALL BE WRAPPED AROUND POST UNDER STRAP PRIOR TO ATTACHING.



ELEVATION

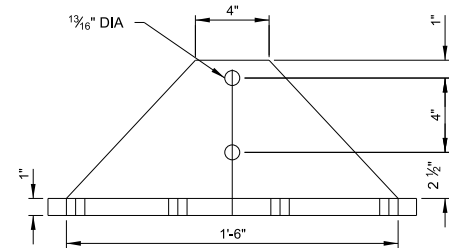
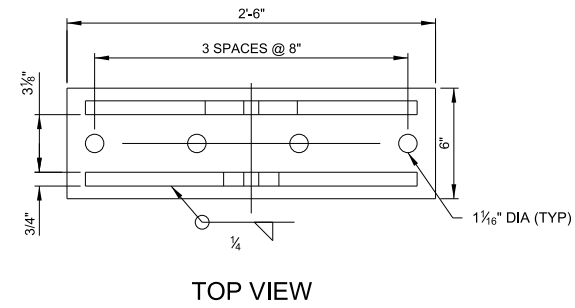


PLAN

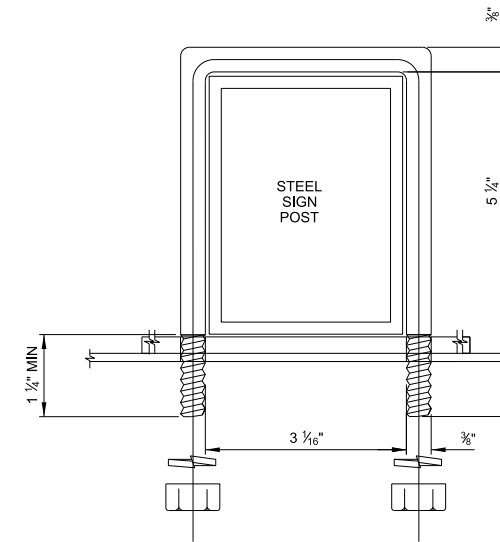
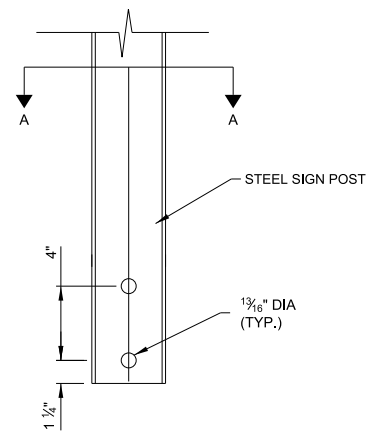
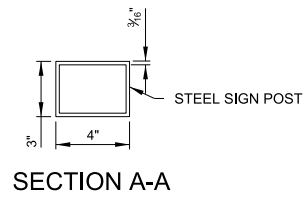
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

POLE MOUNTING
DETAIL

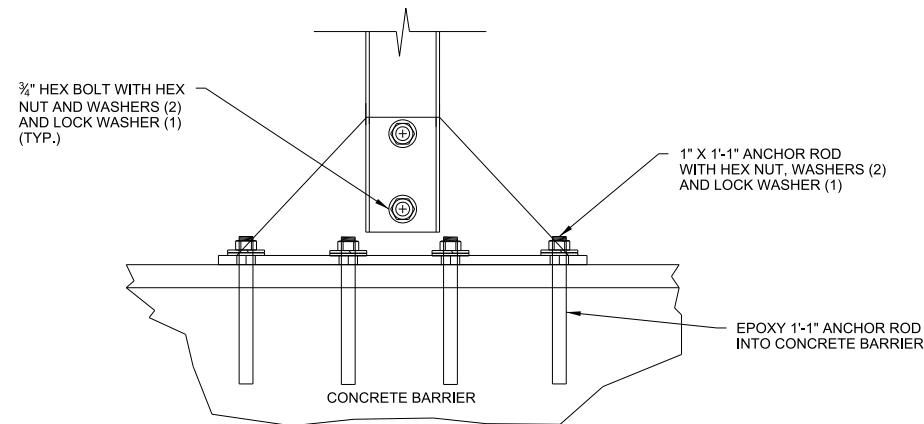
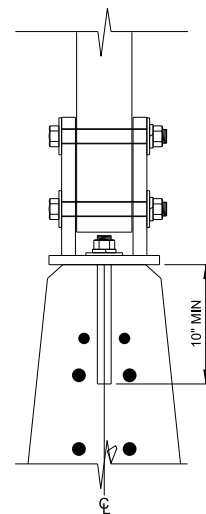
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	TS48



SIDE VIEW
PIVOT SIGN BASE



BRACKET DETAIL
(FOR SIGN ATTACHMENT,
SEE TRS-3)



NOTES:

1. Use 32 sq ft maximum sign panel area, and a 5 ft maximum sign panel width.
2. Use sign base in median applications only, with minimum shoulder width of 4 ft and minimum barrier height of 32 inch.
3. Refer to TRS-1 for sign clearance requirements and general notes.
4. Post length determined by sign size. Top of post shall be flush with top of sign panel.
5. Use ASTM A36 steel for pivot sign base.
6. Meet ASTM A123 galvanizing after fabrication is complete.
7. Use bolts, nuts and washers conforming to ASTM F3125, Grade A325.
8. During installation, if rebar is encountered, adjust the bracket location longitudinally, fill any unused holes with epoxy.
9. Epoxy resin adhesive shall meet AASHTO M235, Type IV, Grade 3, and Class C.

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

BARRIER RAIL
MOUNT DETAIL

COUNTY	MILEPOST	LINE	STATION NUMBER	PANEL DIRECTION		DESCRIPTION	NOTES
						ROUTE US 395	
WASHOE	27.06	XN	606+03.25	NORTH	SOUTH	8" x 24" STANDARD MILEPOST, BLACK ON WHITE	I-1305, MCCARRAN INTERCHANGE
WASHOE	27.30	XN	618+12.13	NORTH	SOUTH	8" x 24" STANDARD MILEPOST, BLACK ON WHITE	SR443 - CLEAR ACRE GRADE SEPARATION
WASHOE	28.72	XN	693+61.07	NORTH	SOUTH	8" x 24" STANDARD MILEPOST, BLACK ON WHITE	I-1306, PARR-DANDINI INTERCHANGE
WASHOE	29.96	XN	758+92.69	NORTH	SOUTH	8" x 24" STANDARD MILEPOST, BLACK ON WHITE	G-1092
WASHOE	30.21	XN	772+00.78	NORTH	SOUTH	8" x 24" STANDARD MILEPOST, BLACK ON WHITE	I-1093N
WASHOE	30.79	XN	802+59.72	NORTH	SOUTH	8" x 24" STANDARD MILEPOST, BLACK ON WHITE	G-1748N

NOTES:

1. REMOVE EXISTING MILEPOSTS AT NO DIRECT PAYMENT
2. MILEPOSTS SHALL BE PAID FOR UNDER BID ITEM 627 0190, PERMANENT SIGNS (GROUND MOUNTED) (METAL SUPPORTS).
3. SEE DM-3 OF THE NDOT STANDARD PLANS (2020) FOR DETAILS OF MILEPOSTS.
4. MILEPOST PANEL LOCATIONS ARE STATIONED IN THE CARDINAL DIRECTION OF THE ROUTE AND SHALL BE INSTALLED FOR BOTH DIRECTIONS.
5. STANDARD MILEPOST PANELS SHALL BE MOUNTED ON THE RIGHT SIDE OF THE ROAD FACING APPROACHING TRAFFIC.

MILEPOST QUANTITIES		
	NO. PANELS	SQ FT
STANDARD MILEPOST	12	16.00
US ENHANCED MILEPOST		0.00
SR ENHANCED MILEPOST		0.00
ENHANCED INTERSTATE MILEPOST		0.00
	TOTAL	16.00

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

MILEPOST
INDEX

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	TS50

PROJECT: NHP-0191(104)

SIGN GENERAL NOTES

ITEM NO.	DESCRIPTION	TOTAL	UNIT
627 0022	PERMANENT OVERHEAD SIGN PANEL, RECONSTRUCT	3.00	EACH
627 0110	PERMANENT OVERHEAD SIGN SUPPORT STRUCTURES	1 (14)	LS
627 0130	PERMANENT OVERHEAD SIGN SUPPORT STRUCTURES, REMOVE	4.00	EACH
627 0150	PERMANENT SIGN PANELS (OVERHEAD)	3547.58	SQFT
627 0160	PERMANENT SIGN PANELS (OVERHEAD)(REMOVE)	1418.53	SQFT
627 0190	PERMANENT SIGNS (GROUND MOUNTED) (METAL SUPPORTS)	1351.25	SQFT
627 0200	PERMANENT SIGNS (GROUND MOUNTED) (SPECIAL METAL SUPPORTS)	111.75	SQFT
627 0220	PERMANENT SIGN PANELS (PANELS ONLY)	218.19	SQFT
627 0240	PERMANENT SIGNS, REMOVE	3239.25	SQFT
627 0250	PERMANENT SIGNS, REMOVE (PANEL ONLY)	182.19	SQFT
627 0260	PERMANENT SIGNS, RESET	467.50	SQFT

- 1 Post lengths, for all ground mounted signs, are calculated using an assumed cross-slope at the sign base, as indicated in the column marked "Slope" on the Summary sheet. Post lengths noted are for estimation purposes only. Post lengths shall be field verified and checked prior to the order of the post by the contractor.
- 2 Sign numbers are taken from the Manual on Uniform Traffic Control Devices (2009 & revisions), Standard Highway Signs (2004 & rev) and Standard Highway Signs - Nevada Supplement (2006).
- 3 Mounting height shall be as shown on sheet TRS-1 of NDOT Standard Plans (2020 edition), except as noted in remarks column of Sign Summary. Post lengths for all ground mounted signs are calculated to the nearest inch.
- 4 Sign installations shall conform to the requirements of the NDOT Standard Plans for Road and Bridge Construction (2020 edition), Roadside Signs.
- 5 Signs shown in plans with a D indicate signs that are to remain in place (do not disturb). They are shown for reference purposes only.
- 6 Signs shown in plans with a R indicate signs that are to be removed.
- 7 Any sign not shown in plans shall not be disturbed.
- 8 All reset sign panels shall be installed on new supports.
- 9 Fabrication drawings of all overhead signs shall be approved by the Engineer prior to the Contractor's order for fabrication.
- 10 For installation and clearance of overhead signs, see sheet TS32 - TS45
- 11 Each sign requiring lighting shall have individual photo-electric cell.
- 12 Omit walkway on overhead signs receiving luminaire retrieval system.
- 13 For overhead sign replacement the cost of removing or modifying an existing sign panel frame and manufacturing new sign panel frame, sign struts, mounting brackets, mounting hardware and any other related work necessary to retrofit the existing sign structure and panel frame shall be included in the bid item 627 0022 "Permanent Overhead Sign Panel, Reconstruct", each. The cost of removing the existing sign panel shall be paid for under bid item 627 0160 "Permanent Sign Panels (Overhead) (Remove)", sqft. The cost of the new overhead sign panel shall be paid for under bid item 627 0150 "Permanent Sign Panels (Overhead)", sqft. The cost of resetting an existing sign panel shall be paid for under bid item 627 0170 "Permanent Sign Panels (Overhead) (Reset)", sqft.

SIGN SUMMARY

NEW LOCATIONS

REMOVALS

**POST LENGTHS & TYPE ARE FOR INFORMATIONAL ESTIMATING PURPOSE ONLY. SEE GENERAL NOTES.

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	TS 51

Remarks	Brace Length (ft)	Post **			Mounting Ht. (ft)	Slope	Curb & Gutter	Panel Size (in. x in.) w h	Panel Area (Actual Sq. Ft.)	New Bid Item Number	Sign No.	Panel Size (in. x in.) w h	Panel Area (Actual Sq. Ft.)	Removal Bid Item Number	Sign Message	Sign Station	Location	Sign Number		
		Length (ft)		# of Posts														Type and Size (in)	New	Removal
		Inner	Outer																	
SEE SHEET TS49 FOR DETAILS							8 x 24	16.00	627 0190					STANDARD REFERENCE PANEL	VARIES					
SEE SHEET TS47 FOR MOUNTING DETAILS							48 x 60	20.00	627 0220	W13-2	48 x 60	20.00	627 0250	EXIT 45 MPH	"XN" 603+02	RT	16-1	1-1R		
REPLACE EXISTING PANELS							102 x 30	21.25	627 0150	SPCL	84 x 24	14.00	627 0160	PERMANENT OVERHEAD SIGN PANEL, RECONSTRUCT						
REPLACE EXISTING PANELS							180 x 96	120.00	627 0150	SPCL	180 x 96	120.00	627 0160	EXIT 71	"XN" 604+92	OH	16-2	1-2R		
														DANDINI BLVD; PARR BLVD; 1 1/4 MILE						
	14' 6"		1	3" RND SNGL POST	7	10 : 1	N 60 x 90	37.50	627 0190	E5-1A	96 x 60	40.00	627 0240	EXIT 70B 45 DEG ARROW	"XN" 606+52	RT		1-3R		
										E5-1C				EXIT 70B 45 DEG ARROW (NARROW GORE SIGN)			16-3			
														PERMANENT OVERHEAD SIGN PANEL, RECONSTRUCT	"XS" 606+53	OH	16-4	1-4R		
REPLACE EXISTING PANELS							102 x 30	21.25	627 0150	SPCL	84 x 24	14.00	627 0160	EXIT 68						
REPLACE EXISTING PANELS							168 x 132	154.00	627 0150	SPCL	168 x 132	154.00	627 0160	I-80 SHIELD; SACRAMENTO; ELKO; 1 MILE						
														PERMANENT OVERHEAD SIGN PANEL, RECONSTRUCT	"XS" 606+53	OH	16-5	1-5R		
REPLACE EXISTING PANELS							102 x 30	21.25	627 0150	SPCL	84 x 24	14.00	627 0160	EXIT 69						
REPLACE EXISTING PANELS							168 x 132	154.00	627 0150	SPCL	168 x 132	154.00	627 0160	ODDIE BLVD; 1/2 MILE						
														ADDED LANE (SYMBOL)	"XS" 608+74	LT		1-6R		
	12' 2"		1	3" RND SNGL POST	7	6 : 1	N 48 x 48	16.00	627 0190	W4-3R	48 x 48	16.00	627 0240	MERGE (SYMBOL)	"XN" 608+67	RT	16-6	1-7R		
														SPEED LIMIT 65	"XN" 610+56	RT		1-8R		
							48 x 30	10.00	627 0220	D13-3	36 x 24	6.00	627 0250	FREEWAY ENTRANCE	"XS" 610+89	LT	16-7	1-9R		
							24 x 12	2.00	627 0220	M3-3	24 x 12	2.00	627 0250	CARDINAL DIRECTION MARKER-SOUTH						
							30 x 24	4.00	627 0220	M1-4	30 x 24	5.00	627 0250	U.S. ROUTE 395 MARKER						
SEE SHEET TS47 FOR MOUNTING DETAILS							21 x 15	2.19	627 0220	M6-2	21 x 15	2.19	627 0250	DIAGONAL 135 DEG ARROW						
							36 x 18	4.50	627 0190	M3-1				CARDINAL DIRECTION MARKER-NORTH	"XN" 614+93	RT	16-8			
	13' 4"		1	3" RND SNGL POST	7	4 : 1	N 45 x 36	11.25	627 0190	M1-4				U.S. ROUTE 395 MARKER						
INSTALL PANEL ON STRUCTURE POST							48 x 48	16.00	627 0220	W4-3R				ADDED LANE (SYMBOL)	"XS" 614+82	LT	16-9			
														EXIT 71	"XN" 620+41	RT		2-1R		
														DANDINI BLVD; PARR BLVD; 1 MILE						
														SHERIFF						
	12' 11"	13' 7"	2	3" RND DBL POST UNBRACED	7	4 : 1	N 48 x 60	20.00	627 0190	R2-1				SPEED LIMIT 65	"XN" 624+92	RT	17-1			
	12' 11"	13' 7"	2	3" RND DBL POST UNBRACED	7	4 : 1	N 48 x 60	20.00	627 0190	R4-5				TRUCKS USE RIGHT LANE	"XN" 627+47	RT	17-2			
	12' 2"		1	3" RND SNGL POST	7	6 : 1	N 48 x 48	16.00	627 0190	W4-3R	48 x 48	16.00	627 0240	ADDED LANE (SYMBOL)	"XN" 630+46	RT	17-3	2-2R		
	12' 5"	12' 9"	2	3" RND SNGL POST	7	6 : 1	N 48 x 60	20.00	627 0190	W13-2	48 x 60	20.00	627 0240	EXIT 45 MPH	"RE" 24+92	LT	18-1	3-1R		
	12' 2"		1	3" RND SNGL POST	7	6 : 1	N 48 x 48	16.00	627 0190	W7-1B	48 x 48	16.00	627 0240	HILL (SYMBOL)(7% GRADE)	"RE" 25+75	LT	18-3	3-2R		
	12' 4"	12' 4"	2	3" RND DBL POST UNBRACED	7	20 : 1	N 78 x 60	40.00	627 0190	E5-1A	78 x 60	32.50	627 0240	EXIT 70 45 DEG ARROW	"XS" 632+67	RT	18-2	3-3R		
														LANE ENDS MERGE LEFT	"XN" 635+85	RT		3-4R		
														REMOVE CANTILEVER STRUCTURE	"XS" 637+39	OH		3-5R		
														EXIT 70						
														CLEAR ACRE LANE; N MCCARRAN BLVD; 45 DEG ARROW						
														TRUCKS USE RIGHT LANE	"XN" 637+90	RT		3-6R		
RESET SALVAGED PANEL FROM 3-8R	16' 4"	14' 10"	15' 8"	2	3" RND DBL POST BRACED	7	6 : 1	N 96 x 48	32.00	627 0260	SPCL			LOGO SIGN - GAS - EXIT 70	"XS" 637+95	LT	18-4			

SIGN SUMMARY

NEW LOCATIONS

REMOVALS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	TS 52

**POST LENGTHS & TYPE ARE FOR INFORMATIONAL ESTIMATING PURPOSE ONLY. SEE GENERAL NOTES.

Remarks	Brace Length (ft)	Post **			Mounting Ht. (ft)	Slope	Curb & Gutter	Panel Size (in. x in.) w h	Panel Area (Actual Sq. Ft.)	New Bid Item Number	Sign No.	Panel Size (in. x in.) w h	Panel Area (Actual Sq. Ft.)	Removal Bid Item Number	Sign Message	Sign Station	Location	Sign Number		
		Length (ft)		# of Posts														Type and Size (in)	New	Removal
		Inner	Outer																	
									627 0110					CONSTRUCT NEW CANTILEVER STRUCTURE	"XS" 638+40	OH	18-5			
SEE SHEET TS32 FOR DETAIL							102 x 30	21.25	627 0150	SPCL				EXIT 70						
SEE SHEET TS32 FOR DETAIL							246 x 110	187.92	627 0150	SPCL				CLEAR ACRE LANE / N MCCARRAN BLVD / EXIT 45 DEG ARROW ONLY						
											W9-2L	48 x 48	16.00	627 0250	LANE ENDS MERGE LEFT	"XN" 638+87	RT	3-7R		
REMOVE AND SALVAGE PANEL											SPCL	96 x 48	32.00	627 0240	LOGO SIGN - GAS - EXIT 70	"XS" 639+90	LT	3-8R		
											SPCL	248 x 96	165.33	627 0240	TRUCKEE MEADOWS COMMUNITY COLLEGE; DESERT RESEARCH INSTITUTE	"XN" 643+48	RT	3-9R		
											SPCL	184 x 48	61.33	627 0240	COUNTRESS ANGELA DANDINI GARDENS					
							36 x 18	4.50	627 0190	M3-1				CARDINAL DIRECTION MARKER-NORTH	"XN" 643+10	RT	18-6			
		13' 4"		1			45 x 36	11.25	627 0190	M1-4				U.S. ROUTE 395 MARKER						
INSTALL ON NEW SIGN ISLAND	17' 2"	17' 2"	17' 8"	2			174 x 90	108.75	627 0190	SPCL				TRUCKEE MEADOWS COMMUNITY COLLEGE // DESERT RESEARCH INSTITUTE NEXT EXIT	"XN" 645+77	RT	18-7			
							120 x 36	30.00	627 0190	SPCL				COUNTRESS ANGELA DANDINI GARDENS						
											SPCL	132 x 60	55.00	627 0240	SUN VALLEY; NEXT EXIT	"XS" 647+55	LT	4-1R		
											M3-1	24 x 12	2.00	627 0250	CARDINAL DIRECTION MARKER-NORTH	"XN" 649+29	RT	4-2R		
											M1-4	30 x 24	5.00	627 0250	U.S. ROUTE 395 MARKER					
		12' 5"	12' 9"	2			48 x 60	20.00	627 0190	R2-1				SPEED LIMIT 65			19-1			
REMOVE AND SALVAGE PANEL											SPCL	138 x 72	69.00	627 0240	LOGO SIGN - FOOD - EXIT 70	"XS" 649+71	LT	4-3R		
									627 0110					CONSTRUCT NEW CANTILEVER STRUCTURE	"XS" 650+97	OH	19-2			
SEE SHEET TS33 FOR DETAIL							102 x 30	21.25	627 0150	SPCL				EXIT 70						
SEE SHEET TS33 FOR DETAIL							246 x 110	187.92	627 0150	SPCL				CLEAR ACRE LANE / N MCCARRAN BLVD / EXIT DOWN ARROW ONLY						
RESET PANEL FROM 4-4R ON SIGN ISLAND	18' 4"	17' 1"	18' 5"	2			168 x 72	84.00	627 0260	SPCL	168 x 72	84.00	627 0240	LOGO SIGN - FOOD, GAS, CAMPING - EXIT 71	"XN" 652+43	RT	19-3	4-4R		
											R2-1	48 x 60	20.00	627 0240	SPEED LIMIT 65	"XS" 652+75	LT	4-5R		
RESET PANEL FROM 4-3R	18' 4"	17' 1"	18' 5"	2			138 x 72	69.00	627 0260	SPCL				LOGO SIGN - FOOD - EXIT 70	"XS" 652+98	LT	19-4			
									627 0110					CONSTRUCT NEW CANTILEVER STRUCTURE	"XN" 656+00	CL	19-5			
SEE SHEET TS34 FOR DETAIL							246 x 90	153.75	627 0150	SPCL				PARR BLVD 1/4 // N VIRGINIA ST // GOLDEN VALLEY RD 2						
SEE SHEET TS34 FOR DETAIL							246 x 90	153.75	627 0150	SPCL				CLEAR ACRE LANE // N MCCARRAN BLVD 1/4 // ODDIE BLVD 1 1/2						
		16' 2"	14' 5"	15' 3"	2		108 x 42	31.50	627 0190	SPCL				SUN VALLEY NEXT EXIT	"XS" 656+12	LT	19-6			
													627 0130	REMOVE CANTILEVER STRUCTURE	"XS" 657+06	OH	4-6R			
											SPCL	84 x 24	14.00	627 0160	EXIT 70					
											SPCL	264 x 96	176.00	627 0160	CLEAR ACRE LANE; N. MCCARRAN BLVD; 1/2 MILE					
		12' 5"	12' 9"	2			48 x 60	20.00	627 0190	R4-3				SLOWER TRAFFIC KEEP RIGHT	"XN" 657+51	RT	19-7			
									627 0110					CONSTRUCT NEW CANTILEVER STRUCTURE	"XN" 660+36	RT	19-8			
SEE SHEET TS35 FOR DETAIL							102 x 30	21.25	627 0150	SPCL				EXIT 71						
SEE SHEET TS35 FOR DETAIL							198 x 110	151.25	627 0150	SPCL				PARR BLVD / DANDINI BLVD // EXIT DOWN ARROW ONLY						
SEE SHEET TS35 FOR DETAIL							48 x 48	16.00	627 0220	SPCL				SHERIFF (SYMBOL)						
SEE SHEET TS35 FOR DETAIL							48 x 18	6.00	627 0220	SPCL				NEXT EXIT						
		12' 5"	12' 9"	2			48 x 60	20.00	627 0190	R2-1				SPEED LIMIT 65	"XS" 661+36	LT	19-9			
											R2-1	48 x 60	20.00	627 0240	SPEED LIMIT 65	"XN" 663+26	RT	5-1R		
											SPCL	264 x 80	146.67	627 0240	CLEAR ACRE LANE N. MCCARRAN BLVD 3/4 / GLENDALE AVE 1 3/4	"XS" 664+44	LT	5-2R		
		13' 4"		1			36 x 18	4.50	627 0190	M3-3				CARDINAL DIRECTION MARKER-SOUTH	"XS" 666+31	LT	20-1			
							45 x 36	11.25	627 0190	M1-4				U.S. ROUTE 395 MARKER						
		12' 2"		1			48 x 48	16.00	627 0190	SPCL				MARTIN LUTHER KING JR. HIGHWAY	"XS" 669+82	LT	20-2			

SIGN SUMMARY

NEW LOCATIONS

REMOVALS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	TS 54

**POST LENGTHS & TYPE ARE FOR INFORMATIONAL ESTIMATING PURPOSE ONLY. SEE GENERAL NOTES.

Remarks	Brace Length (ft)	Post **			Mounting Ht. (ft)	Slope	Curb & Gutter	Panel Size (in. x in.) w h	Panel Area (Actual Sq. Ft.)	New Bid Item Number	Sign No.	Panel Size (in. x in.) w h	Panel Area (Actual Sq. Ft.)	Removal Bid Item Number	Sign Message	Sign Station	Location	Sign Number		
		Length (ft)		# of Posts														Type and Size (in)	New	Removal
		Inner	Outer																	
SEE SHEET TS47 FOR MOUNTING DETAILS							48 x 60	20.00	627 0220	W13-2	48 x 60	20.00	627 0250	EXIT 40 MPH	"PD1" 22+87	LT	22-2	8-2R		
														US 395 MAINLINE "XS" / "XN"						
									627 0110					CONSTRUCT NEW CANTILEVER STRUCTURE	"XS" 710+48	LT	22-3			
SEE SHEET TS37 FOR DETAIL							102 x 30	21.25	627 0150	SPCL				EXIT 71						
SEE SHEET TS37 FOR DETAIL							198 x 110	151.25	627 0150	SPCL				PARR BLVD / DANDINI BLVD / EXIT 45 DEG ARROW ONLY						
SEE SHEET TS37 FOR DETAIL							48 x 48	16.00	627 0220	SPCL				SHERIFF (SYMBOL)						
										R4-3				SLOWER TRAFFIC KEEP RIGHT	"XN" 711+71	RT	22-4			
										SPCL	180 x 96	120.00	627 0240	DANDINI BLVD PARR BLVD; 45 DEG ARROW	"XS" 712+82	LT		8-3R		
										SPCL	30 x 30	6.25	627 0240	SHERIFF (SYMBOL)						
REMOVE AND RESET PANEL	16' 9"	15' 10"	16' 6"	2	3" RND DBL POST BRACED	7 6 : 1	N 84 x 60	35.00	627 0260	SPCL	84 x 60	35.00	627 0240	LOGO - FOOD EXIT - 72	"XN" 713+41	RT	22-5	8-4R		
							36 x 18	4.50	627 0190	M3-1				CARDINAL DIRECTION MARKER-NORTH	"XN" 714+52	RT	22-6			
		11' 9"		1	3" RND SNGL POST	6 6 : 1	N 45 x 36	11.25	627 0190	M1-4				U.S. ROUTE 395 MARKER						
RESET PANEL FROM 9-1R ON SIGN ISLAND	14' 1"	13' 8"	14' 1"	2	3" RND DBL POST BRACED	7 20 : 1	N 168 x 72	84.00	627 0260	SPCL				LOGO - EXIT 71 - CAMPING; FOOD; GAS	"XS" 714+82	LT	22-7			
										M3-3	24 x 12	2.00	627 0240	CARDINAL DIRECTION MARKER-SOUTH	"XS" 716+28	LT		8-5R		
										M1-4	30 x 24	5.00	627 0240	U.S. ROUTE 395 MARKER						
REMOVE AND SALVAGE PANEL										SPCL	168 x 72	84.00	627 0240	LOGO - EXIT 71 - CAMPING; FOOD; GAS	"XS" 719+15	LT		9-1R		
	14' 7"	14' 0"	14' 6"	2	3" RND DBL POST BRACED	7 10 : 1	N 96 x 60	40.00	627 0190	SPCL				PANTHER VALLEY NEXT EXIT	"XN" 720+53	RT	23-1			
										SPCL	84 x 24	14.00	627 0240	EXIT 72	"XN" 721+47	RT		9-2R		
										SPCL	126 x 96	84.00	627 0240	PANTHER VALLEY; EXIT 1 MILE						
									627 0110					CONSTRUCT NEW CANTILEVER STRUCTURE	"XS" 724+33	LT	23-2			
SEE SHEET TS38 FOR DETAIL							102 x 30	21.25	627 0150	SPCL				EXIT 71						
SEE SHEET TS38 FOR DETAIL							198 x 110	151.25	627 0150	SPCL				PARR BLVD / DANDINI BLVD / EXIT DOWN ARROW ONLY						
SEE SHEET TS38 FOR DETAIL							48 x 48	16.00	627 0220	SPCL				SHERIFF (SYMBOL)						
SEE SHEET TS38 FOR DETAIL							48 x 18	6.00	627 0220	SPCL				NEXT EXIT						
		12' 5"	12' 9"	2	3" RND DBL POST UNBRACED	7 6 : 1	N 48 x 60	12.00	627 0190	R2-1	36 x 48	12.00	627 0240	SPEED LIMIT 65	"XN" 724+51	RT	23-3	9-3R		
										SPCL	162 x 72	81.00	627 0240	TRUCKEE MEADOWS COMMUNITY COLLEGE; DESERT RESEARCH INSTITUTE NEXT EXIT	"XS" 732+59	LT		10-1R		
										SPCL	162 x 36	40.50	627 0240	COUNTESS ANGELA DANDINI GARDENS						
									627 0110					CONSTRUCT NEW CANTILEVER STRUCTURE	"XS" 735+30	CNTR	24-1			
SEE SHEET TS39 FOR DETAIL							246 x 90	153.75	627 0150	SPCL				N VIRGINIA ST // GOLDEN VALLEY RD 1/4 // LEMMON DR 2 1/4						
SEE SHEET TS39 FOR DETAIL							246 x 90	153.75	627 0150	SPCL				PARR BLVD 1/2 // CLEAR ACRE LN 1 3/4 // N MCCARRAN BLVD 1 3/4						
SOUNDWALL MOUNT, SEE SHEET SW33					SOUNDWALL MOUNTED		84 x 48	28.00	627 0200	GNV28-1	72 x 36	18.00	627 0240	ROAD INFO TUNE RADIO TO 530 AM	"XS" 735+99	LT	24-2	10-2R		
										R2-1	48 x 60	20.00	627 0240	SPEED LIMIT 65	"XS" 744+48	LT		10-3R		
										SPCL	192 x 96	128.00	627 0240	PARR BLVD / DANDINI BLVD / 1 MILE	"XS" 745+58	LT		11-1R		
										SPCL	66 x 24	11.00	627 0240	SHERIFF						
									627 0110					CONSTRUCT NEW CANTILEVER STRUCTURE	"XN" 746+00	RT	24-3			
SEE SHEET TS40 FOR DETAIL							102 x 30	21.25	627 0150	SPCL				EXIT 72						
SEE SHEET TS40 FOR DETAIL							234 x 140	227.50	627 0150	SPCL				N VIRGINIA ST / PANTHER DR / GOLDEN VALLEY RD / EXIT DOWN ARROW ONLY						
SOUNDWALL MOUNT, SEE SHEET SW33					SOUNDWALL MOUNTED		48 x 60	20.00	627 0200	R2-1				SPEED LIMIT 65	"XS" 746+22	LT	24-4			
										SPCL	84 x 24	14.00	627 0240	EXIT 73	"XN" 746+50	RT		11-2R		
										SPCL	186 x 102	131.75	627 0240	GOLDEN VALLEY ROAD; 1 MILE						
		11' 10"		1	3" RND SNGL POST	7 10 : 1	N 72 x 48	24.00	627 0190	SPCL	72 x 48	24.00	627 0240	CAR POOL (775) 348-POOL	"XN" 749+35	RT	25-1	11-3R		

SIGN SUMMARY

NEW LOCATIONS

REMOVALS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	TS 56

**POST LENGTHS & TYPE ARE FOR INFORMATIONAL ESTIMATING PURPOSE ONLY. SEE GENERAL NOTES.

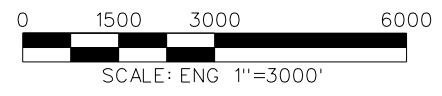
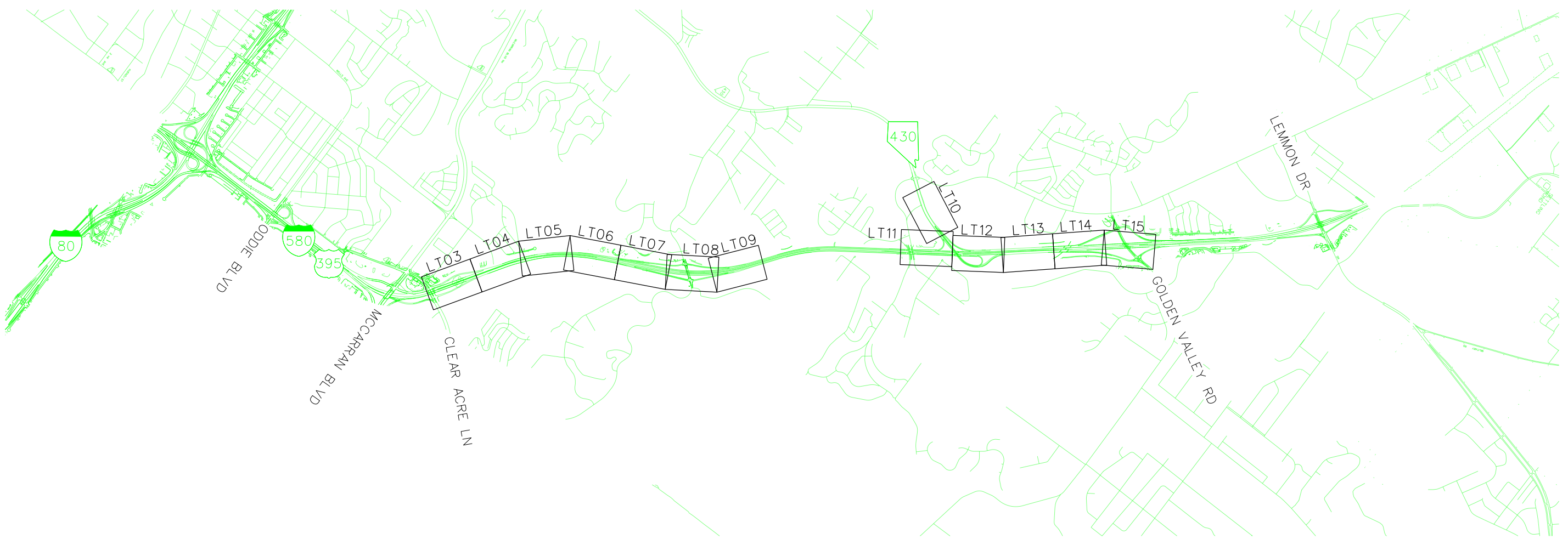
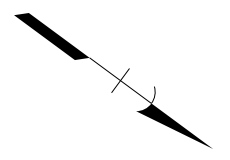
Remarks	Brace Length (ft)	Post **			Mounting Ht. (ft)	Slope	Curb & Gutter	Panel Size (in. x in.) w h	Panel Area (Actual Sq. Ft.)	New Bid Item Number	Sign No.	Panel Size (in. x in.) w h	Panel Area (Actual Sq. Ft.)	Removal Bid Item Number	Sign Message	Sign Station	Location	Sign Number		
		Length (ft)		# of Posts														Type and Size (in)	New	Removal
		Inner	Outer																	
		12' 2"		1	3" RND SNGL POST	7	6 : 1	N	48 x 48	16.00	627 0190	W1-11	48 x 48	16.00	627 0250	HAIRPIN CURVE (SYMBOL)	"V3" 13+50	RT	27-7	13-7R
		11' 0"		1	2.5" SQ 12 GA POST	7	6 : 1	N	18 x 24	3.00	627 0190	W1-8R	18 x 24	3.00	627 0240	CHEVRON (SYMBOL)	"V3" 14+51	LT	27-8	13-8R
		11' 0"		1	2.5" SQ 12 GA POST	7	6 : 1	N	18 x 24	3.00	627 0190	W1-8R	18 x 24	3.00	627 0240	CHEVRON (SYMBOL)	"V3" 14+94	LT	27-9	13-9R
		11' 0"		1	2.5" SQ 12 GA POST	7	6 : 1	N	18 x 24	3.00	627 0190	W1-8R	18 x 24	3.00	627 0240	CHEVRON (SYMBOL)	"V3" 15+34	LT	27-10	13-10R
		11' 0"		1	2.5" SQ 12 GA POST	7	6 : 1	N	18 x 24	3.00	627 0190	W1-8R	18 x 24	3.00	627 0240	CHEVRON (SYMBOL)	"V3" 15+75	LT	27-11	13-11R
		11' 0"		1	2.5" SQ 12 GA POST	7	6 : 1	N	18 x 24	3.00	627 0190	W1-8R	18 x 24	3.00	627 0240	CHEVRON (SYMBOL)	"V3" 16+17	LT	27-12	13-12R
		11' 0"		1	2.5" SQ 12 GA POST	7	6 : 1	N	18 x 24	3.00	627 0190	W1-8R	18 x 24	3.00	627 0240	CHEVRON (SYMBOL)	"V3" 16+61	LT	27-13	13-13R
		11' 0"		1	2.5" SQ 12 GA POST	7	6 : 1	N	18 x 24	3.00	627 0190	W1-8R	12 x 18	1.50	627 0240	CHEVRON (SYMBOL)	"V3" 17+05	LT	27-14	13-14R
									84 x 24	14.00	627 0220	W12-2P	84 x 24	14.00	627 0250	LOW CLEARANCE 14' 5"	"V3" 24+17	OH	26-5	13-15R
		11' 8"		1	2.5" SQ 12 GA POST	7	6 : 1	N	42 x 30	8.75	627 0190	R5-1A	42 x 30	8.75	627 0240	WRONG WAY	"V3" 27+03	RT	26-6	12-3R
		11' 8"		1	2.5" SQ 12 GA POST	7	6 : 1	N	42 x 30	8.75	627 0190	R5-1A	42 x 30	8.75	627 0240	WRONG WAY	"V3" 27+01	LT	26-7	12-4R
									24 x 30	5.00	627 0190	R4-7	24 x 30	5.00	627 0240	KEEP RIGHT (SYMBOL)	"V4" 10+04	LT	26-8	12-5R
		12' 1"		1	2.5" SQ 12 GA POST	6	6 : 1	N	18 x 18	2.25	627 0190	OM1-1	18 x 18	2.25	627 0240	OBJECT MARKER TYPE I				
		12' 1"		1	2.5" SQ 12 GA POST	7	6 : 1	N	36 x 36	9.00	627 0190	W4-2R	36 x 36	9.00	627 0240	LANE ENDS (SYMBOL)	"V4" 12+12	LT	26-19	12-6R
		13' 2"		1	3" RND SNGL POST	7	10 : 1	N	60 x 66	27.50	627 0190	SPCL	54 x 60	22.50	627 0240	90 DEG ARROW NORTH; 395 SHIELD; SOUTH 45 DEG ARROW	"V2" 17+43	RT	26-11	12-7R
									24 x 24	4.00	627 0190	R5-6	24 x 24	4.00	627 0240	NO BIKES (SYMBOL)	"V4" 15+51	RT	26-20	12-8R
		12' 1"		1	2.5" SQ 12 GA POST	6	6 : 1	N	24 x 24	4.00	627 0190	R9-3A	24 x 24	4.00	627 0240	NO PEDESTRIAN CROSSING (SYMBOL)				
									36 x 36	9.00	627 0190	W1-2L	36 x 36	9.00	627 0240	CURVE (SYMBOL)	"V4" 17+64	RT	26-21	12-9R
		13' 2"		1	3" RND SNGL POST	6	6 : 1	N	24 x 24	4.00	627 0190	W13-1P	24 x 24	4.00	627 0240	ADVISORY SPEED 40				
									84 x 24	14.00	627 0220	W12-2P	84 x 24	14.00	627 0250	LOW CLEARANCE 14' 5"	"V4" 18+77	OH	26-22	12-10R
		11' 0"		1	2.5" SQ 12 GA POST	7	6 : 1	N	24 x 30	5.00	627 0190	W1-8R	24 x 30	5.00	627 0240	CHEVRON (SYMBOL)	"V2" 14+90	RT	26-12	12-11R
		11' 0"		1	2.5" SQ 12 GA POST	7	6 : 1	N	24 x 30	3.00	627 0190	W1-8R	18 x 24	3.00	627 0240	CHEVRON (SYMBOL)	"V2" 15+42	RT	26-13	12-12R
		11' 0"		1	2.5" SQ 12 GA POST	7	6 : 1	N	24 x 30	5.00	627 0190	W1-8R	24 x 30	5.00	627 0240	CHEVRON (SYMBOL)	"V2" 15+94	RT	26-14	12-13R
		11' 0"		1	2.5" SQ 12 GA POST	7	6 : 1	N	24 x 30	5.00	627 0190	W1-8R	24 x 30	5.00	627 0240	CHEVRON (SYMBOL)	"V2" 16+48	RT	26-15	12-14R
		11' 0"		1	2.5" SQ 12 GA POST	7	6 : 1	N	24 x 30	5.00	627 0190	W1-8R	24 x 30	5.00	627 0240	CHEVRON (SYMBOL)	"V2" 17+05	RT	26-16	12-15R
									24 x 24	4.00	627 0190	R5-6	24 x 24	4.00	627 0240	NO BIKES (SYMBOL)	"V2" 18+85	LT	26-10	12-16R
		12' 1"		1	2.5" SQ 12 GA POST	6	6 : 1	N	24 x 24	4.00	627 0190	R9-3A	24 x 24	4.00	627 0240	NO PEDESTRIAN CROSSING (SYMBOL)				
		12' 1"		1	3" RND SNGL POST	7	6 : 1	N	36 x 48	12.00	627 0190	W13-3	36 x 48	12.00	627 0240	RAMP 25 MPH	"V2" 19+40	LT	26-9	12-17R
									36 x 36	9.00	627 0190	R5-1	36 x 36	9.00	627 0240	DO NOT ENTER	"V1" 12+18	LT	26-17	12-18R
		8' 7"		1	2.5" SQ 12 GA POST	6	10 : 1	N	36 x 12	3.00	627 0190	R6-1L	36 x 12	3.00	627 0240	ONE WAY (ENCLOSED IN LEFT ARROW)				
									36 x 36	9.00	627 0190	R5-1	36 x 36	9.00	627 0240	DO NOT ENTER	"V1" 12+18	RT	26-18	12-19R
		10' 7"		1	2.5" SQ 12 GA POST	6	10 : 1	N	36 x 12	3.00	627 0190	R6-1R	36 x 12	3.00	627 0240	ONE WAY (ENCLOSED IN RIGHT ARROW)				
												W13-2	48 x 60	20.00	627 0240	EXIT 45 MPH	"V1" 22+79	LT		13-16R
																US 395 MAINLINE "XS1" / "XN1"				
									48 x 60	20.00	627 0190	R2-1				SPEED LIMIT 65	"XS1" 789+14	LT	27-5	

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ITS01	ITS COVER SHEET/KEY MAP
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ITS26	SIGNALS, LIGHTING, & ITS CONDUIT TRENCH DETAIL
ITS27 - ITS27D	ITS SPECIAL DETAILS
ITS28	ITS NETWORK DIAGRAM
ITS28A - ITS49	SPLICE DIAGRAMS
ITS50	ITS GENERAL NOTES
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STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT01

LIGHTING PLANS



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING
PLANS / KEY MAP

	DESIGN DIVISION		
	DESIGNER	LAURA VARGO	PHONE (775) 888-7665
	SENIOR DESIGNER	ERIC MACGILL	PHONE (775) 888-7561
	PROJECT MANAGER	ROBERT VROOMAN	PHONE (775) 888-7317

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT02

LIGHTING CONSTRUCTION NOTES:

- ① REMOVE EXISTING LUMINAIRE HEAD. SHALL BE PAID FOR UNDER BID ITEM 202 0895, "REMOVE LIGHTING FIXTURES", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ② INTENTIONALLY REMOVED FROM THE PLANS.
- ③ INSTALL NEW LIGHT POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0570, "STEEL POLE, TYPE 7", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ④ REMOVE EXISTING LIGHTING CONDUCTOR AND INSTALL NEW CONDUCTOR IN EXISTING CONDUIT. SEE LIGHTING CONDUIT SCHEDULES FOR MORE DETAILS.
- ⑤ INSTALL 200 AMP METERED SERVICE (SINGLE PHASE, 3-WIRE). SHALL BE PAID FOR UNDER BID ITEM 623 1620, "UNDERGROUND ELECTRICAL SERVICE", EACH.
- ⑥ REMOVE EXISTING SERVICE PEDESTAL AND INSTALL NEW SERVICE PEDESTAL. SHALL BE PAID FOR UNDER BID ITEMS 623 1630, "REMOVE EXISTING ELECTRICAL SERVICE", EACH, AND 623 1620, "UNDERGROUND ELECTRICAL SERVICE", EACH.
- ⑦ REMOVE EXISTING PULL BOX. SHALL BE PAID FOR UNDER BID ITEM 202 0925, "REMOVAL OF PULL BOX", EACH.
- ⑧ SPLICE NEW LUMINAIRE CONDUCTORS TO EXISTING LIGHTING CIRCUIT. SEE LIGHTING CONDUIT SCHEDULES FOR MORE DETAILS. NO DIRECT PAYMENT.
- ⑨ INTERCEPT EXISTING CONDUIT AND CONNECT TO NEW CONDUIT RUN. SPLICE NEW CONDUCTORS TO EXISTING LIGHTING CIRCUIT USING AN APPROVED METHOD. NO DIRECT PAYMENT. SEE LIGHTING CONDUIT SCHEDULES FOR MORE DETAILS.
- ⑩ CONDUCTORS FOR LANDSCAPE ARCHITECTURE LIGHTING CIRCUIT SHALL BE SAFED OFF IN THIS PULL BOX PENDING CONNECTION TO LANDSCAPE ARCHITECTURE LIGHTING.
- ⑪ INSTALL TYPE C UNDERPASS LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0355, "UNDERPASS LUMINAIRE, (TYPE C)", EACH.
- ⑫ INSTALL BRIDGE RAIL JUNCTION BOX PER 2020 STANDARD PLAN DETAIL TG-9. SHALL BE PAID FOR UNDER BID ITEM 623 0250, "JUNCTION BOX (A)", EACH.
- ⑬ INSTALL NEW LIGHT POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0585, "STEEL POLE, TYPE 14 (TWIN ARMS)", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ⑭ INSTALL NEW BRIDGE RAIL LIGHT POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0580, "STEEL POLE, TYPE 7 (MODIFIED)", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ⑮ NEW BRIDGE RAIL JUNCTION BOX SHALL CONNECT TO EXISTING LIGHT POLE CONDUIT FROM BLISTER. NO DIRECT PAYMENT.

LIGHTING CONSTRUCTION NOTES:

- R1 REMOVE EXISTING TRANSFORMER & TRANSFORMER CABINET. SHALL BE PAID FOR UNDER BID ITEM 623 1365, "REMOVAL OF EXISTING ELECTRICAL SYSTEM", LS. REMOVE CONDUCTOR FOR REMOVED SIGN LIGHTING BACK TO SERVICE PEDESTAL. SHALL BE PAID FOR UNDER 623 2660, "REMOVAL OF EXISTING CABLE", LINFT.
- R2 REMOVE EXISTING ROADWAY LIGHT POLE AND LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 202 0885, "REMOVAL OF LIGHT POLE", EACH.
- RR1 DISCONNECT EXISTING LIGHTING CONDUCTORS AND PULL BACK TO ADJACENT PULL BOX. REMOVE AND RESET LIGHT POLE ONTO NEW FOUNDATION. PULL EXISTING CONDUCTORS TO NEW POLE LOCATION AND SPLICE TO NEW CONDUCTORS. WORK SHALL BE PAID FOR UNDER BID ITEM 623 1445, "REMOVE AND RESET LIGHT POLE", EACH. SEE SCHEDULES FOR DETALS, INCLUDING NEW POLE LOCATIONS

ITS CONSTRUCTION NOTES:

SEE NEXT SHEET.

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION
NOTES

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT02A

LIGHTING CONSTRUCTION NOTES:

SEE PREVIOUS SHEET.

ITS CONSTRUCTION NOTES:

- (21) INSTALL NEW 80' ITS POLE WITH PTZ CCTV CAMERA AND LOWERING DEVICE. SHALL BE PAID FOR UNDER BID ITEMS 623 0658, "ITS POLE (80 FOOT)", EACH, 623 3030, "CCTV CAMERA (PTZ)", EACH, AND 623 2950, "CCTV LOWERING DEVICE (HIGH MAST)", EACH.
- (22) INSTALL NEW 30' ITS POLE WITH PTZ CCTV CAMERA. SHALL BE PAID FOR UNDER BID ITEMS 623 0653, "ITS POLE (30 FOOT)", EACH, 623 3030, "CCTV CAMERA (PTZ)", EACH.
- (23) INSTALL NEW 30' ITS POLE WITH RADAR DETECTOR SYSTEM. SHALL BE PAID FOR UNDER BID ITEMS 623 0921, "RADAR DETECTOR SYSTEM", EACH AND 623 0653, "ITS POLE (30 FOOT)", EACH. SEE SCHEDULES FOR MORE INFORMATION.
- (24) REPLACE EMBEDDED SURFACE ROAD TEMPERATURE SENSOR AND WIRING AS INDICATED IN NDOT STANDARD PLANS AND PLAN SCHEDULES. SHALL BE PAID FOR UNDER BID ITEM 623 0870, "SPECIAL DETECTOR SURFACE SENSOR", EACH. CONNECTION OF NEW WIRING AND SENSOR TO EXISTING RWIS IS INCLUDED IN THE BID ITEM.
- (25) INSTALL NEW GROUND MOUNTED ITS CABINET. SHALL BE PAID FOR UNDER BID ITEM 623 1061, "COMMUNICATION CABINET", EACH.
- (26) INSTALL NEW SIGNAL POLE, SIGNAL HEADS, AND MISCELLANEOUS SIGNAL EQUIPMENT PER SCHEDULES FOR A COMPLETE RAMP METERING SYSTEM. SCHEDULES AND STRUCTURE LIST PROVIDE ADDITIONAL INFORMATION, INCLUDING BID ITEMS.
- (27) INSTALL NEW GROUND-MOUNTED ITS CABINET AND 2070 TRAFFIC ACTUATED CONTROLLER IN IT. SHALL BE PAID FOR UNDER BID ITEM 623 1061, "COMMUNICATION CABINET", EACH AND 6230955, "TRAFFIC ACTUATED CONTROLLER", EACH RESPECTIVELY. MAKE ALL CONNECTIONS AND COMPLETE ALL WORK NECESSARY FOR A COMPLETE AND WORKING RAMP METERING SYSTEM.
- (28) REMOVE EXISTING RADAR DETECTOR AND SALVAGE. INSTALL NEW RADAR DETECTOR ON EXISTING POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0921, "RADAR DETECTOR SYSTEM", EACH.
- (29) DISCONNECT EXISTING DETECTOR CABLE FROM EXISTING RADAR DETECTOR AND PULL DETECTOR CABLE TO PULL BOX 03e. PULL EXISTING DETECTOR CABLE THROUGH NEW CONDUIT AND RECONNECT TO EXISTING RADAR DETECTOR. NO DIRECT PAYMENT.
- (30) PERFORM FIBER OPTIC SPLICE. SEE SPLICING DIAGRAMS FOR CABLE AND SPLICING INFORMATION. SHALL BE PAID FOR UNDER BID ITEM 623 2915, "INTEGRATED FIBER OPTIC SPLICE/TERMINATION UNIT (UNDERGROUND)", EACH.
- (31) PERFORM FIBER OPTIC SPLICE IN EXISTING SPLICE ENCLOSURE. SEE SPLICING DIAGRAMS FOR CABLE AND SPLICING INFORMATION. SHALL BE PAID FOR UNDER BID ITEM 623 2915, "INTEGRATED FIBER OPTIC SPLICE/TERMINATION UNIT (UNDERGROUND)", EACH.

ITS CONSTRUCTION NOTES:

- (32) INSTALL NEW 3 KVA, 120V TO 600V, SINGLE PHASE, STEP UP TRANSFORMER. SHALL BE PAID FOR UNDER BID ITEM 623 1722, "TRANSFORMER (3 KVA)", EACH.
- (33) INSTALL NEW 3 KVA, 600V TO 120V, SINGLE PHASE, STEP DOWN TRANSFORMER. SHALL BE PAID FOR UNDER BID ITEM 623 1722, "TRANSFORMER (3 KVA)", EACH.
- (34) INSTALL NEW CONDUIT INTO EXISTING PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.
- (35) RECONFIGURE EXISTING RADAR DETECTOR SYSTEM TO NEW ROADWAY ALIGNMENT. SHALL BE PAID FOR UNDER BID ITEM 623 0856, "MODIFY DETECTOR", EACH.
- (36) INSTALL NEW CONDUCTORS INTO NEW BREAKER IN EXISTING SERVICE PEDESTAL. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS. SHALL BE PAID FOR UNDER BID ITEM 623 1635, "MODIFY ELECTRICAL SERVICE", EACH.
- (37) REMOVE EXISTING PULL BOX. SHALL BE PAID FOR UNDER BID ITEM 202 0925, "REMOVAL OF PULL BOX", EACH. INSTALL NEW PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.
- (38) INSTALL NEW CONDUIT INTO EXISTING PULL BOX. CONNECT EXISTING CONDUCTORS WITH NEW CONDUCTORS THAT ARE RUNNING IN CONDUIT RUN 1319.
- (39) INSTALL 30-FOOT STEEL POST WITH 1W1C FLASHING 12" AMBER BEACONS AND "RAMP METERED WHEN FLASHING" SIGN. SHALL BE PAID FOR UNDER BID ITEMS 623 2225, "STEEL POST 30-FOOT", EACH, 623 2550, "SIGNAL HEAD 1W1C, POST TOP", EACH, AND 623 2680, "TRAFFIC SIGNAL SIGNS", EACH.
- (40) INSTALL WRONG WAY DRIVER WARNING SYSTEM IN EXISTING COMMUNICATION CABINET. SHALL BE PAID FOR UNDER BID ITEM 623 3050, "RECTANGULAR RAPID FLASHING BEACON CONTROLLER (TYPE 2)", EACH.
- (41) INSTALL (2) NEW RECTANGULAR RAPID FLASHING BEACONS (RRFB) ON NEW 30' STEEL POST. SHALL BE PAID FOR UNDER BID ITEM 623 3040, "RECTANGULAR RAPID FLASHING BEACON", EACH, AND BID ITEM 623 2225, "STEEL POST, 30-FOOT", EACH.
- (42) INSTALL (2) FLIR DETECTORS, INCOMING AND OUTGOING, ON EXISTING POLE. SHALL BE PAID FOR UNDER BID ITEM 623 3035, "CCTV CAMERA (DETECTABLE)", EACH. SEE POLE SCHEDULE AND SPECIAL DETAILS FOR FURTHER INFORMATION.
- (43) INSTALL (2) CCTV CAMERAS. INCOMING AND OUTGOING, AND (2) ILLUMINATORS, INCOMING AND OUTGOING, ON EXISTING POLE. SHALL BE PAID FOR UNDER BID ITEM 623 1264, "CCTV CAMERA (FIXED)", EACH. SEE POLE SCHEDULE AND SPECIAL DETAILS FOR FURTHER INFORMATION.

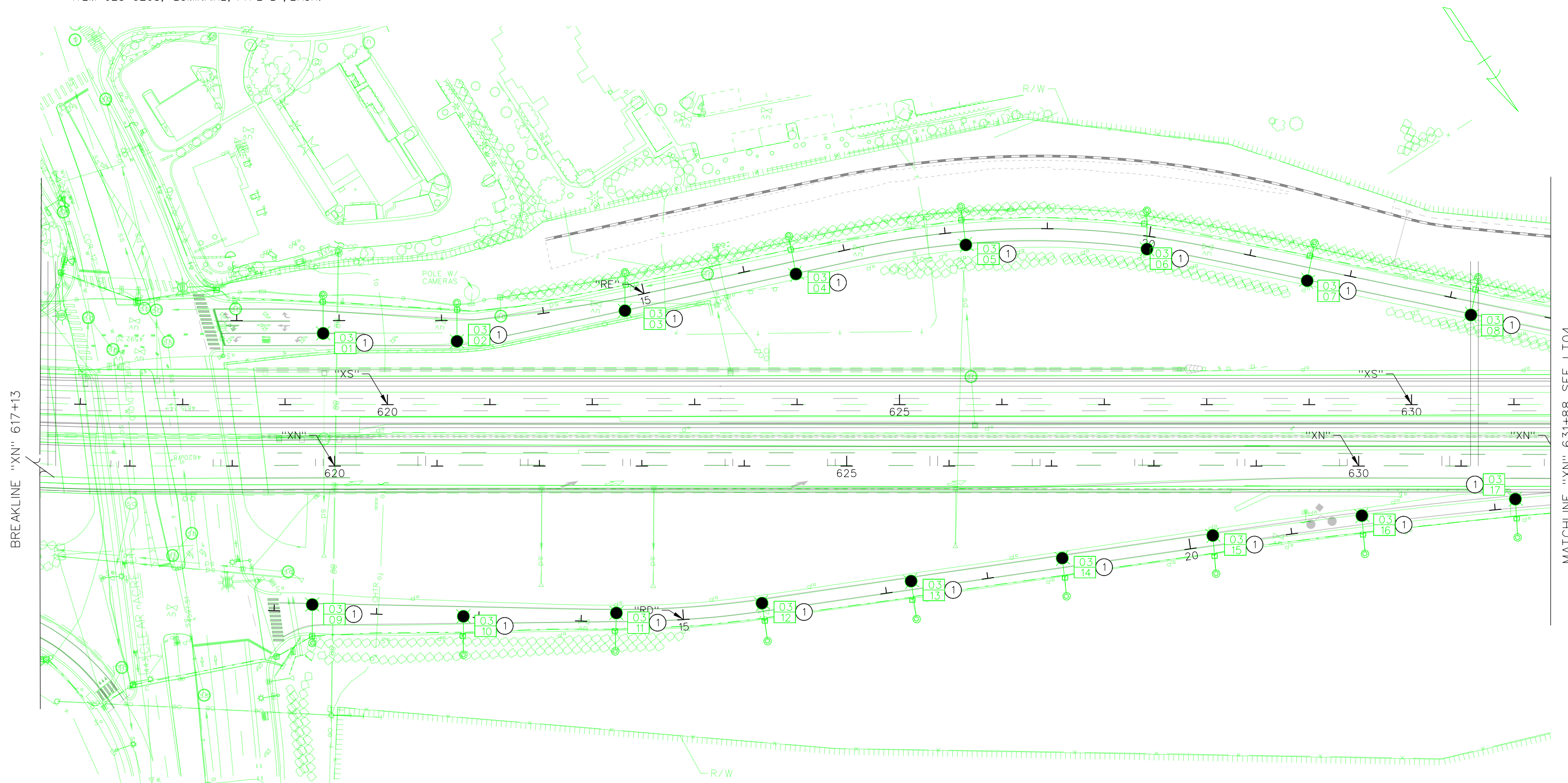
- (R3) REMOVE EXISTING FIBER OPTIC CABLE AND/OR EXISTING CONDUCTORS FROM EXISTING CONDUIT. SHALL BE PAID FOR UNDER BID ITEM 623 1370, "REMOVAL OF CONDUIT AND CONDUCTORS", LS.
- (R4) REMOVE EXISTING RWIS POLE AND EQUIPMENT AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1375, "REMOVAL OF POLE", EACH. REMOVE EXISTING RWIS CABINET AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1320, "REMOVAL OF TRAFFIC SIGNAL CONTROLLER CABINET", EACH.
- (R5) REMOVE EXISTING POLE MOUNTED RADAR DETECTOR SYSTEM AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1405, "REMOVE POLE MOUNTED CONTROLLER", EACH.
- (R6) REMOVE EXISTING ITS POLE, CCTV, EQUIPMENT, AND TRANSFORMER AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1375, "REMOVAL OF POLE", EACH. REMOVE EXISTING CABINET AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1320, "REMOVAL OF TRAFFIC SIGNAL CONTROLLER CABINET", EACH.
- (R7) REMOVE EXISTING PULL BOX. SHALL BE PAID FOR UNDER BID ITEM 202 0925, "REMOVAL OF PULL BOX", EACH.
- (R8) REMOVE EXISTING WRONG WAY DRIVER SYSTEM FROM COMMUNICATION CABINET AND EXISTING POLE. SHALL BE PAID FOR UNDER BID ITEM 623 1530, "REMOVE AND RESET VIDEO DETECTION SYSTEM", EACH.
- (RR2) REMOVE AND RESET EXISTING POLE, PANEL AND FLASHING BEACON. SHALL BE PAID FOR UNDER BID ITEM 623 1441, "REMOVE AND RESET STEEL POLE", EACH. SEE ITS SPECIAL DETAILS FOR FURTHER INFORMATION.

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION
NOTES**

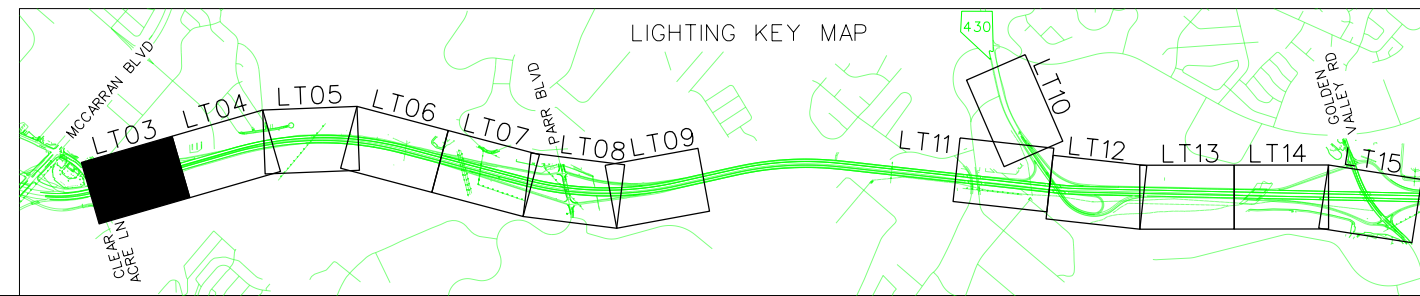
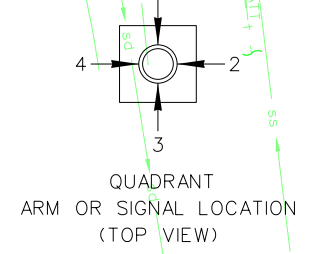
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT03

① REMOVE EXISTING LUMINAIRE HEAD. SHALL BE PAID FOR UNDER BID ITEM 202 0895, "REMOVE LIGHTING FIXTURES", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.



BREAKLINE "XN" 617+13

MATCHLINE "XN" 631+88, SEE LT04



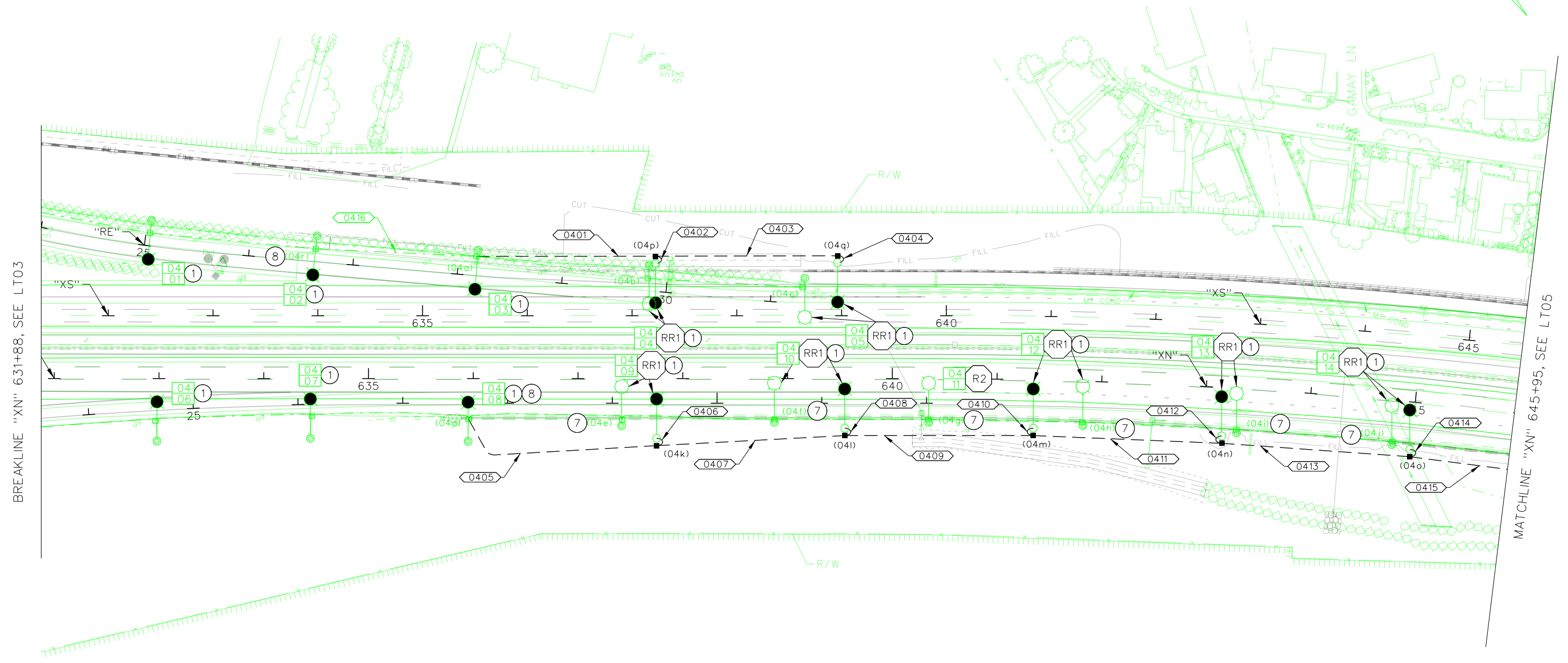
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
"XN" 617+13 TO
"XN" 631+88

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT04

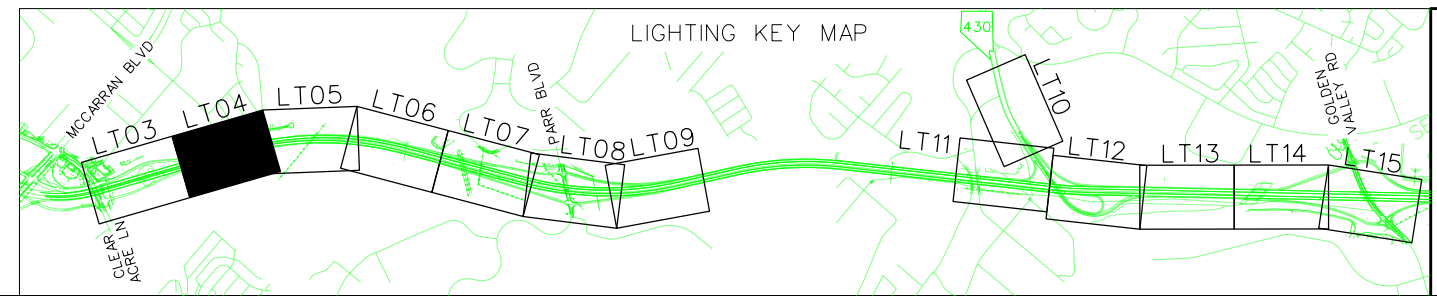
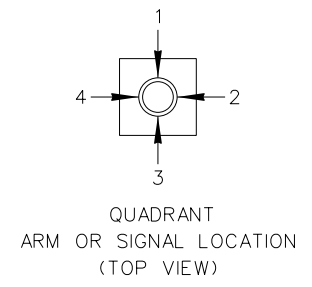
- ① REMOVE EXISTING LUMINAIRE HEAD. SHALL BE PAID FOR UNDER BID ITEM 202 0895, "REMOVE LIGHTING FIXTURES", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ⑦ REMOVE EXISTING PULL BOX. SHALL BE PAID FOR UNDER BID ITEM 202 0925, "REMOVAL OF PULL BOX", EACH.
- ⑧ SPLICE NEW LUMINAIRE CONDUCTORS TO EXISTING LIGHTING CIRCUIT. SEE LIGHTING CONDUIT SCHEDULES FOR MORE DETAILS. NO DIRECT PAYMENT.

- R2 REMOVE EXISTING ROADWAY LIGHT POLE AND LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 202 0885, "REMOVAL OF LIGHT POLE", EACH.
- RR1 REMOVE AND RESET EXISTING LIGHT POLE. SEE LIGHTING SCHEDULES FOR MORE INFORMATION. REMOVE ALL EXISTING CONDUCTORS BACK TO SOURCE. RECONNECT EXISTING LUMINAIRE CONDUCTORS IN THE POLE TO THE NEW POWER CONDUCTORS TO BE INSTALLED. SHALL BE PAID FOR UNDER BID ITEM 623 1445, "REMOVE AND RESET LIGHT POLE", EACH.



BREAKLINE "XN" 631+88, SEE LT03

MATCHLINE "XN" 645+95, SEE LT05

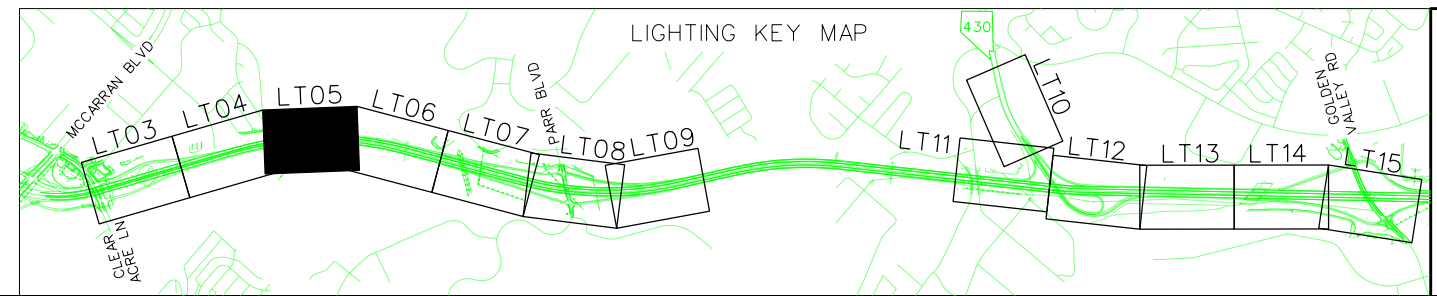
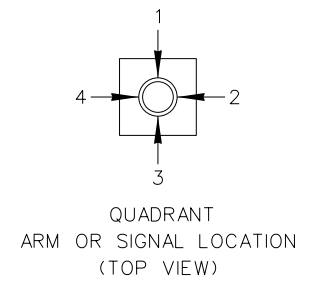
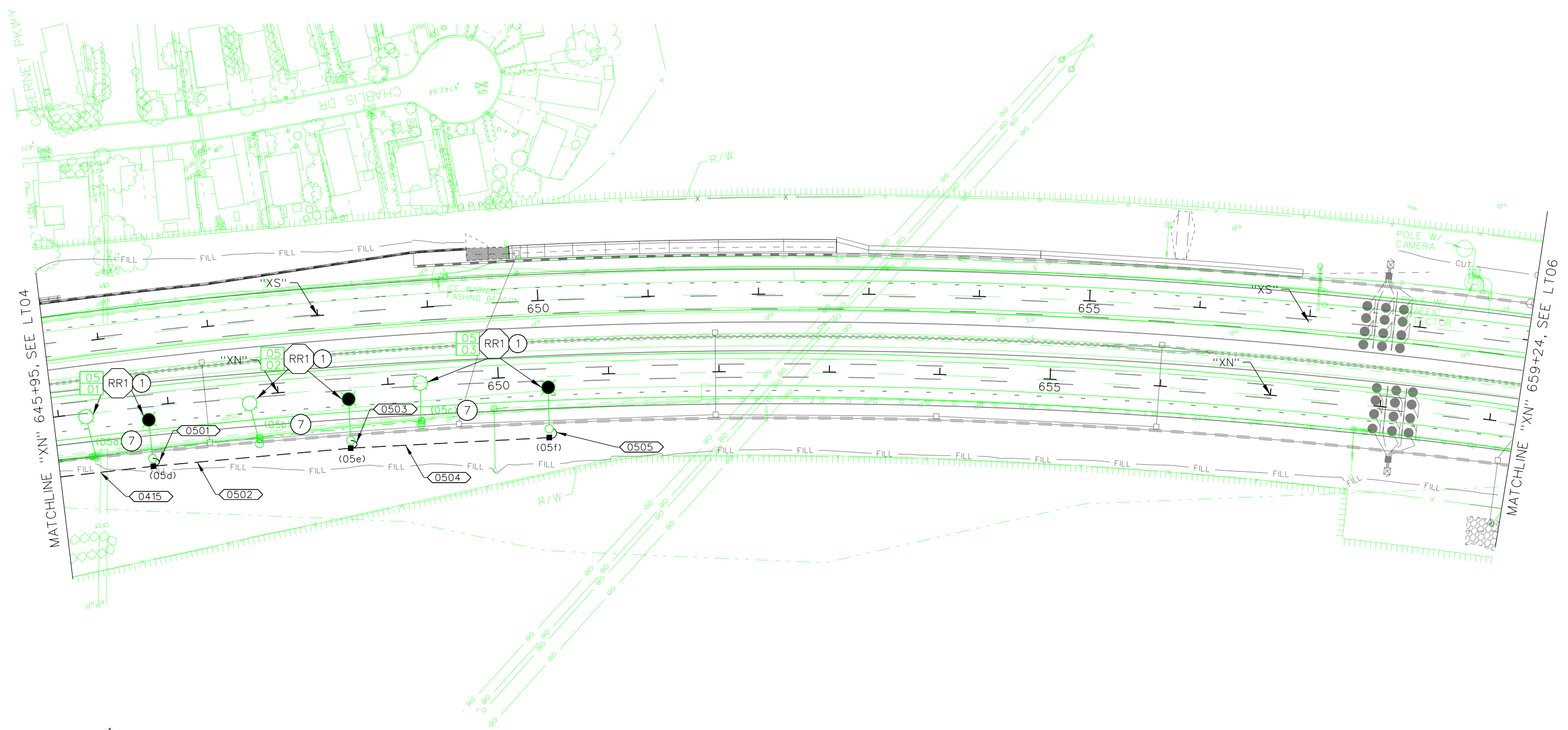


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
"XN" 631+88 TO
"XN" 645+95

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT05

- ① REMOVE EXISTING LUMINAIRE HEAD. SHALL BE PAID FOR UNDER BID ITEM 202 0895, "REMOVE LIGHTING FIXTURES", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ⑦ REMOVE EXISTING PULL BOX. SHALL BE PAID FOR UNDER BID ITEM 202 0925, "REMOVAL OF PULL BOX", EACH.
- RR1 DISCONNECT EXISTING LIGHTING CONDUCTORS AND PULL BACK TO ADJACENT PULL BOX. REMOVE AND RESET LIGHT POLE ONTO NEW FOUNDATION. PULL EXISTING CONDUCTORS TO NEW POLE LOCATION AND SPLICE TO NEW CONDUCTORS. WORK SHALL BE PAID FOR UNDER BID ITEM 623 1445, "REMOVE AND RESET LIGHT POLE", EACH. SEE SCHEDULES FOR DETAILS, INCLUDING NEW POLE LOCATIONS

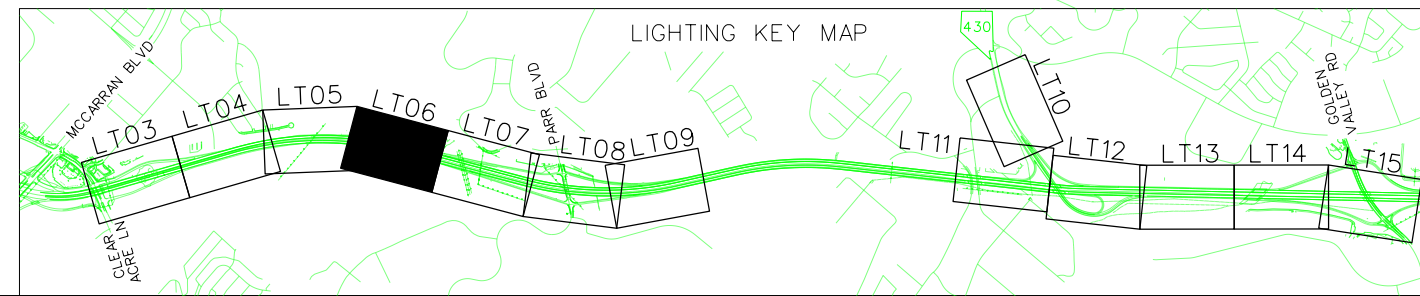
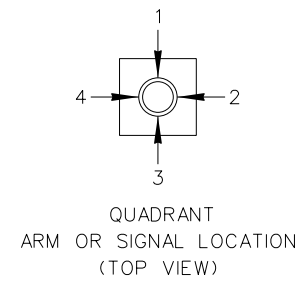
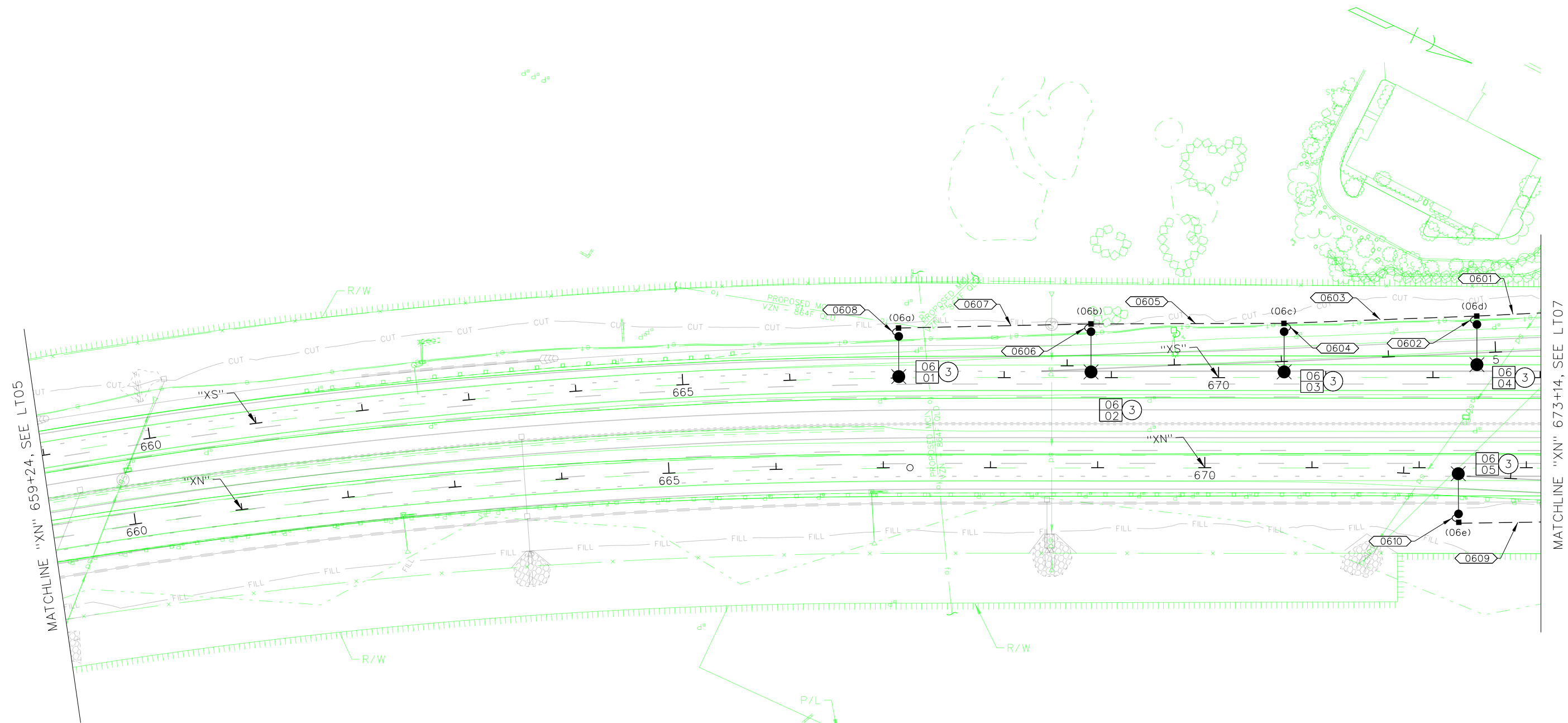


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
"XN" 645+95 TO
"XN" 659+24

③ INSTALL NEW LIGHT POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0570, "STEEL POLE, TYPE 7", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT06

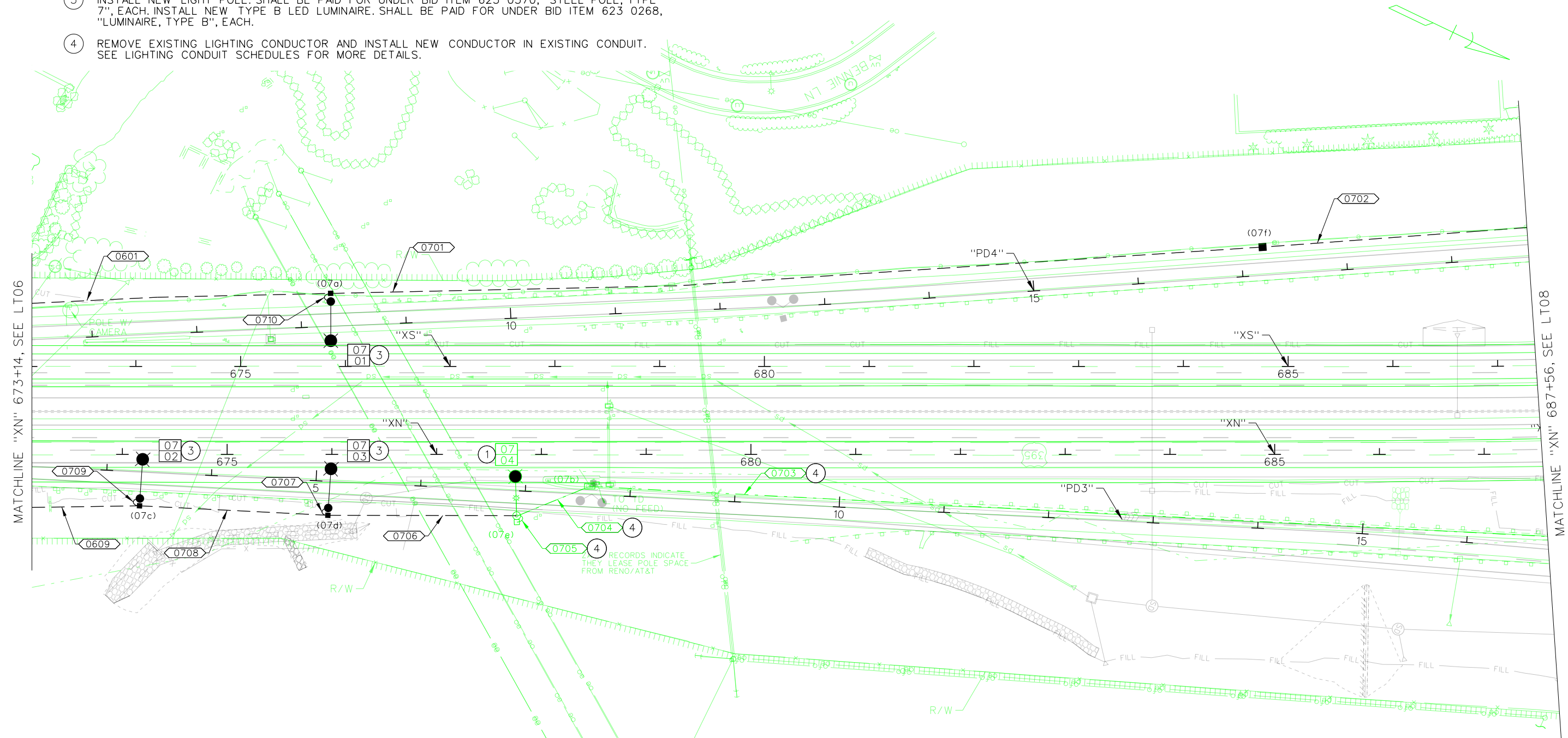


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
"XN" 659+24 TO
"XN" 673+14

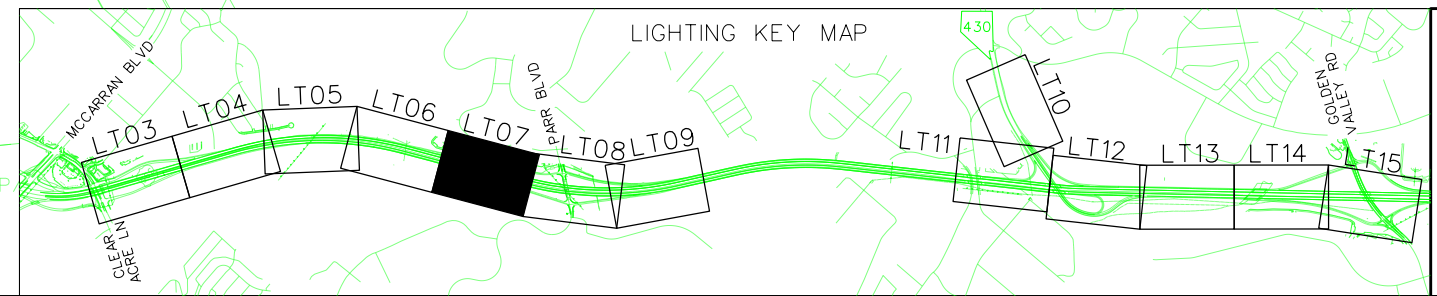
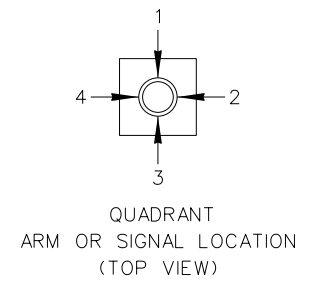
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT07

- ① REMOVE EXISTING LUMINAIRE HEAD. SHALL BE PAID FOR UNDER BID ITEM 202 0895, "REMOVE LIGHTING FIXTURES", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ③ INSTALL NEW LIGHT POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0570, "STEEL POLE, TYPE 7", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ④ REMOVE EXISTING LIGHTING CONDUCTOR AND INSTALL NEW CONDUCTOR IN EXISTING CONDUIT. SEE LIGHTING CONDUIT SCHEDULES FOR MORE DETAILS.



MATCHLINE "XN" 673+14, SEE LT06

MATCHLINE "XN" 687+56, SEE LT08

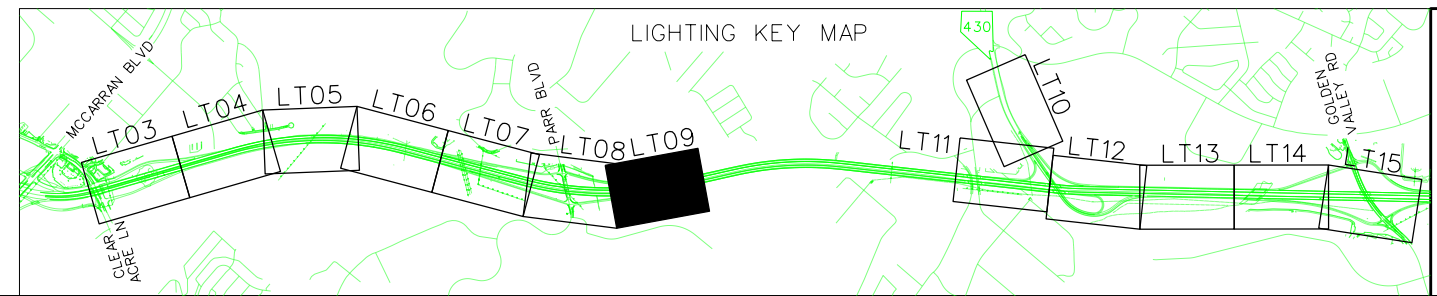
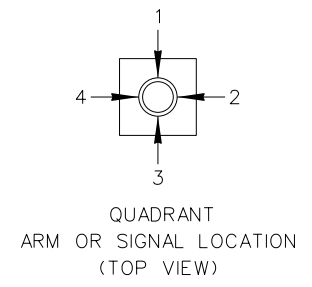
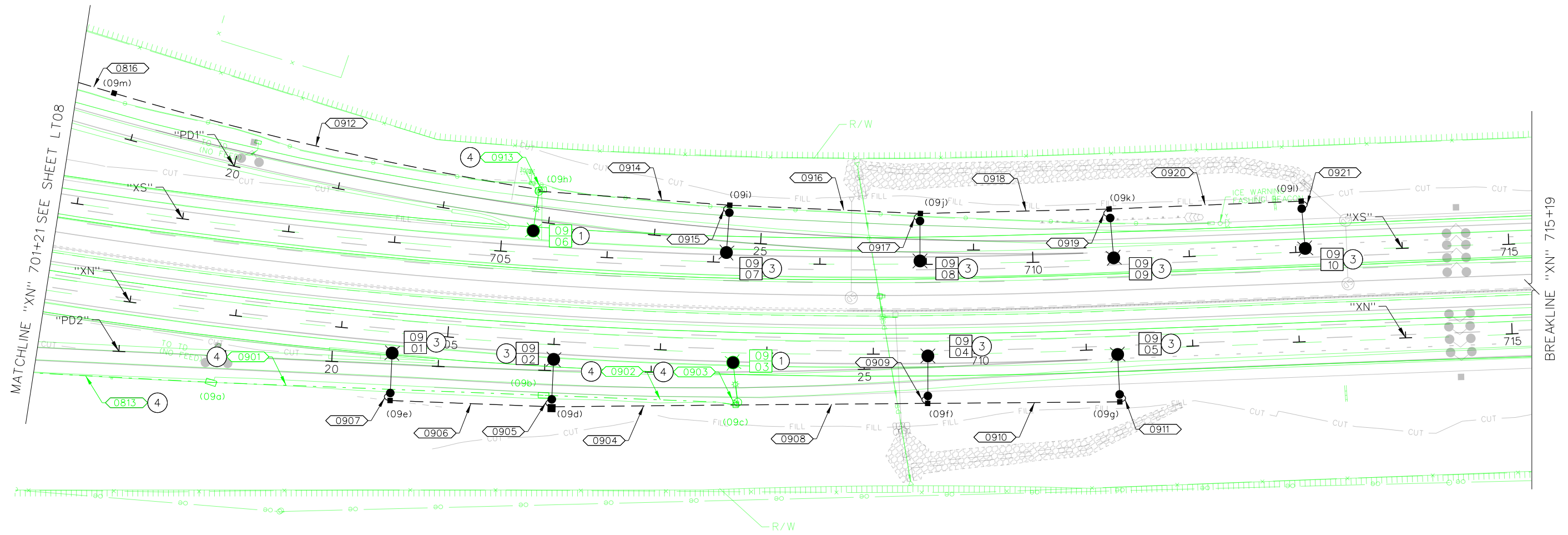


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
"XN" 673+13 TO
"XN" 687+56

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT09

- ① REMOVE EXISTING LUMINAIRE HEAD. SHALL BE PAID FOR UNDER BID ITEM 202 0895, "REMOVE LIGHTING FIXTURES", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ③ INSTALL NEW LIGHT POLE, SHALL BE PAID FOR UNDER BID ITEM 623 0570, "STEEL POLE, TYPE 7", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ④ REMOVE EXISTING LIGHTING CONDUCTOR AND INSTALL NEW CONDUCTOR IN EXISTING CONDUIT. SEE LIGHTING CONDUIT SCHEDULES FOR MORE DETAILS.

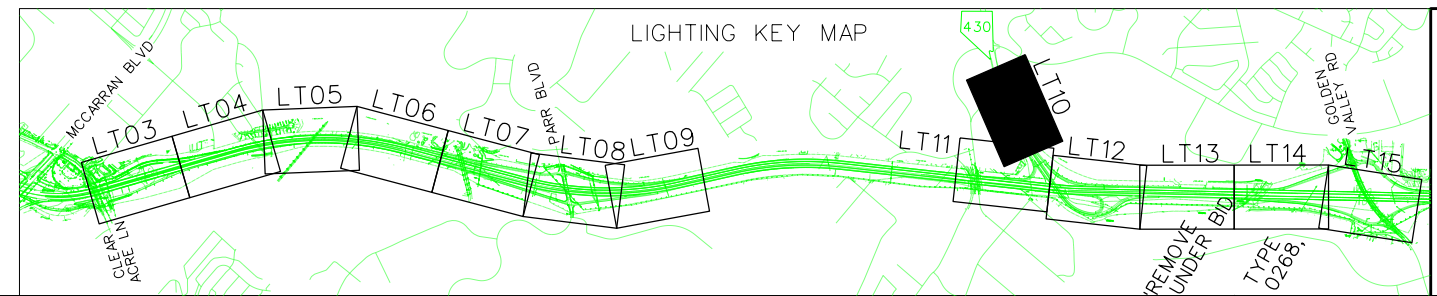
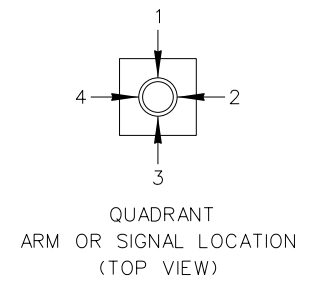
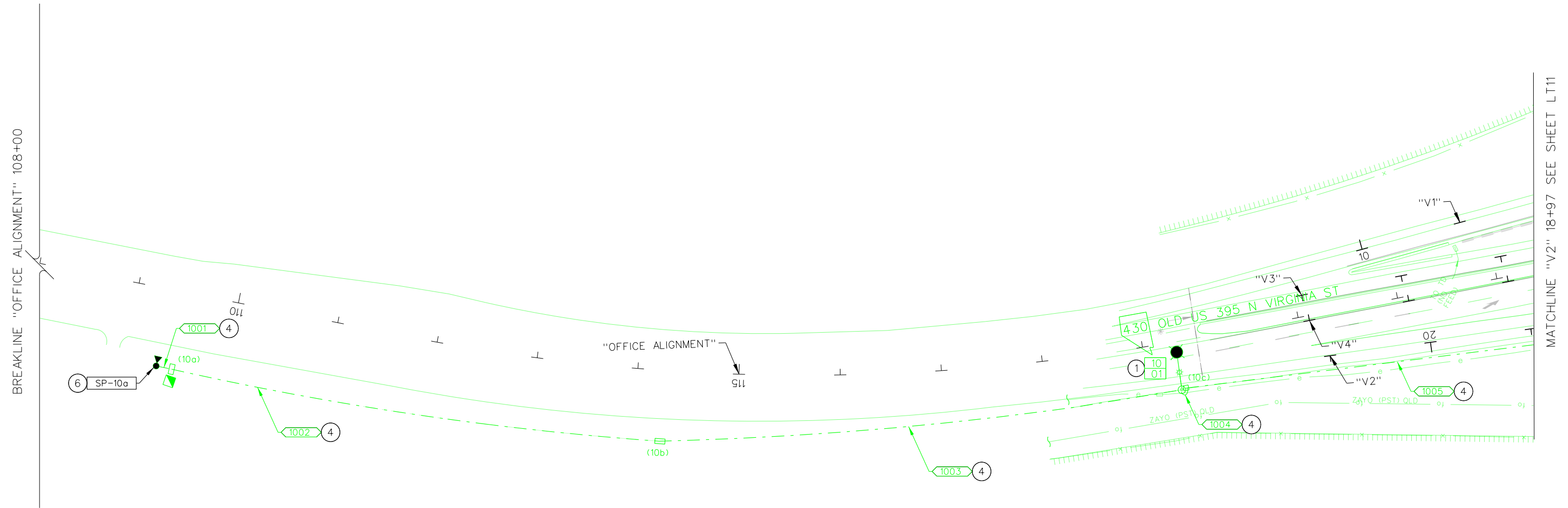


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
"XN" 701+21 TO
"XN" 715+19

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT10

- ① REMOVE EXISTING LUMINAIRE HEAD. SHALL BE PAID FOR UNDER BID ITEM 202 0895, "REMOVE LIGHTING FIXTURES", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ④ REMOVE EXISTING LIGHTING CONDUCTOR AND INSTALL NEW CONDUCTOR IN EXISTING CONDUIT. SEE LIGHTING CONDUIT SCHEDULES FOR MORE DETAILS.
- ⑥ REMOVE EXISTING SERVICE PEDESTAL AND INSTALL NEW SERVICE PEDESTAL. SHALL BE PAID FOR UNDER BID ITEMS 623 1630, "REMOVE EXISTING ELECTRICAL SERVICE", EACH, AND 623 1620, "UNDERGROUND ELECTRICAL SERVICE", EACH.

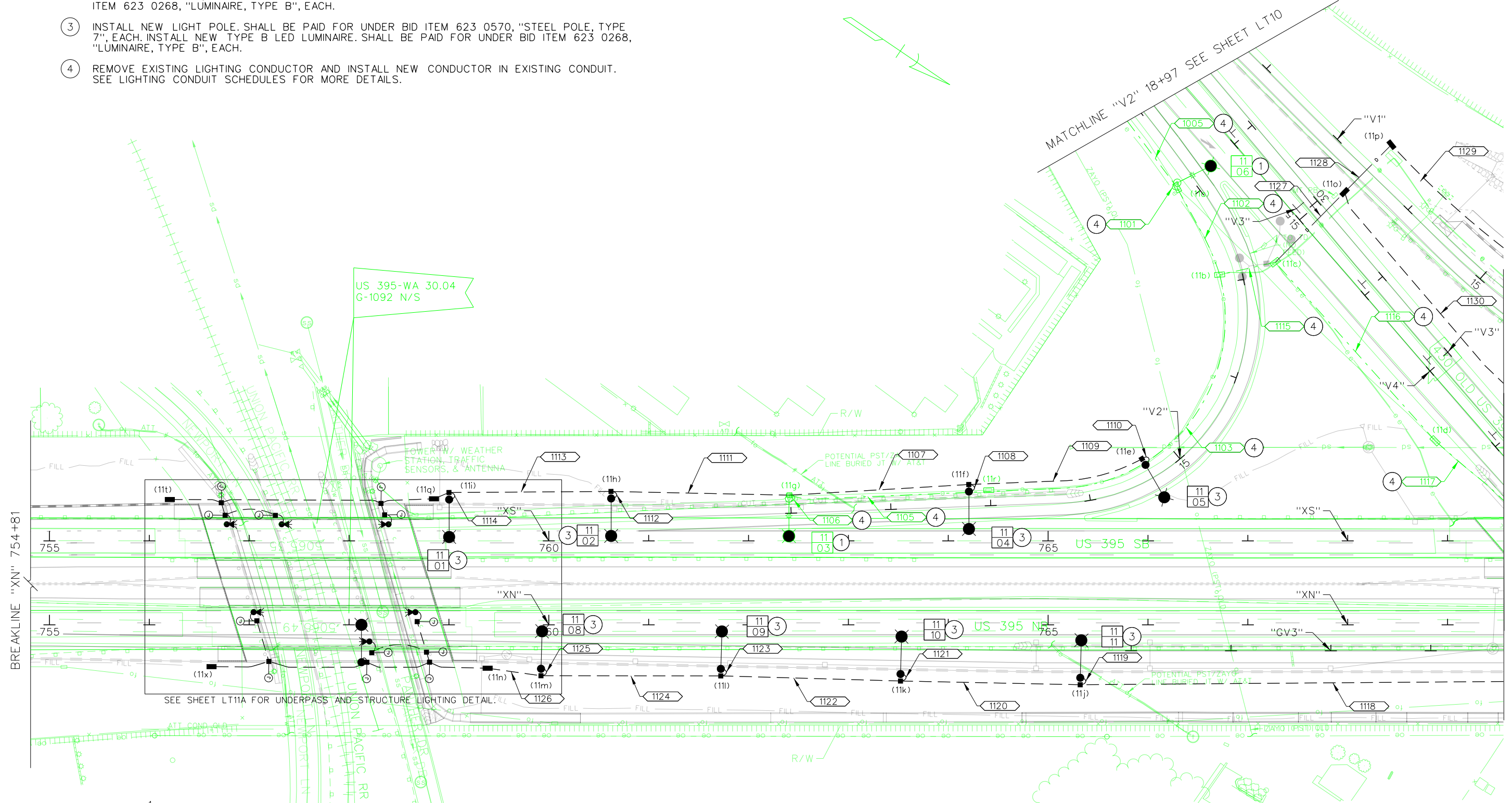


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
"V3" 108+00 TO
"V2" 18+97

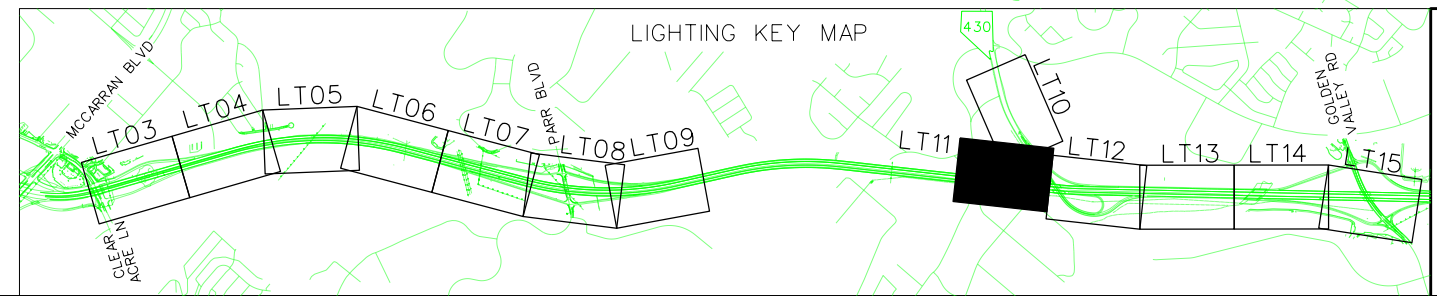
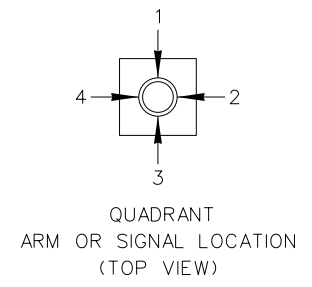
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT11

- ① REMOVE EXISTING LUMINAIRE HEAD. SHALL BE PAID FOR UNDER BID ITEM 202 0895, "REMOVE LIGHTING FIXTURES", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ③ INSTALL NEW LIGHT POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0570, "STEEL POLE, TYPE 7", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ④ REMOVE EXISTING LIGHTING CONDUCTOR AND INSTALL NEW CONDUCTOR IN EXISTING CONDUIT. SEE LIGHTING CONDUIT SCHEDULES FOR MORE DETAILS.



BREAKLINE "XN" 754+81

MATCHLINE "XN" 769+57 SEE SHEET LT12



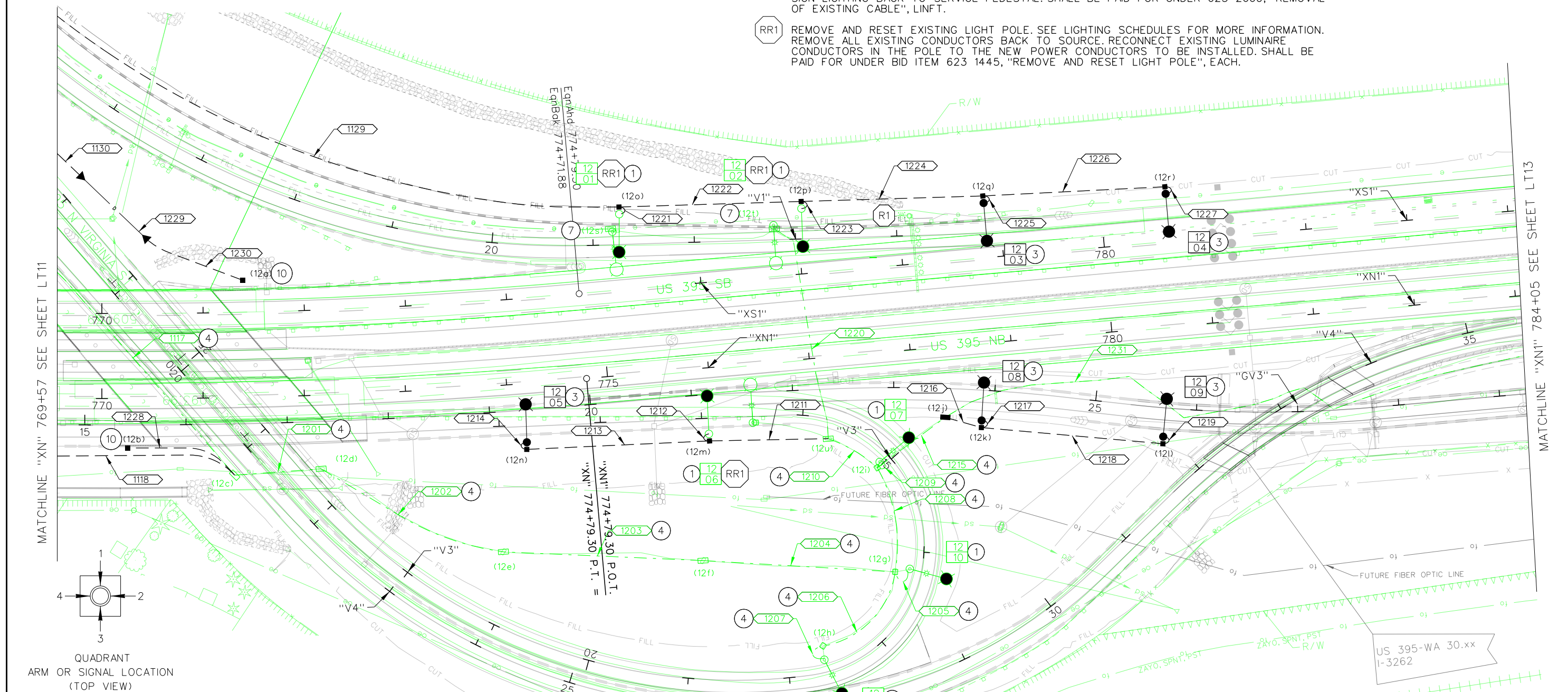
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
"XN" 754+81 TO
"XN" 769+57

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT12

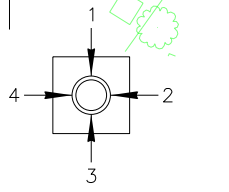
- ① REMOVE EXISTING LUMINAIRE HEAD. SHALL BE PAID FOR UNDER BID ITEM 202 0895, "REMOVE LIGHTING FIXTURES", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ③ INSTALL NEW LIGHT POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0570, "STEEL POLE, TYPE 7", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ④ REMOVE EXISTING LIGHTING CONDUCTOR AND INSTALL NEW CONDUCTOR IN EXISTING CONDUIT. SEE LIGHTING CONDUIT SCHEDULES FOR MORE DETAILS.

- ⑦ REMOVE EXISTING PULL BOX. SHALL BE PAID FOR UNDER BID ITEM 202 0925, "REMOVAL OF PULL BOX", EACH.
- ⑩ CONDUCTORS FOR LANDSCAPE ARCHITECTURE LIGHTING CIRCUIT SHALL BE SAFED OFF IN THIS PULL BOX PENDING CONNECTION TO LANDSCAPE ARCHITECTURE LIGHTING
- R1 REMOVE EXISTING TRANSFORMER & TRANSFORMER CABINET. SHALL BE PAID FOR UNDER BID ITEM 623 1365, "REMOVAL OF EXISTING ELECTRICAL SYSTEM", L.S. REMOVE CONDUCTOR FOR REMOVED SIGN LIGHTING BACK TO SERVICE PEDESTAL. SHALL BE PAID FOR UNDER 623 2660, "REMOVAL OF EXISTING CABLE", LINFT.
- RR1 REMOVE AND RESET EXISTING LIGHT POLE. SEE LIGHTING SCHEDULES FOR MORE INFORMATION. REMOVE ALL EXISTING CONDUCTORS BACK TO SOURCE. RECONNECT EXISTING LUMINAIRE CONDUCTORS IN THE POLE TO THE NEW POWER CONDUCTORS TO BE INSTALLED. SHALL BE PAID FOR UNDER BID ITEM 623 1445, "REMOVE AND RESET LIGHT POLE", EACH.

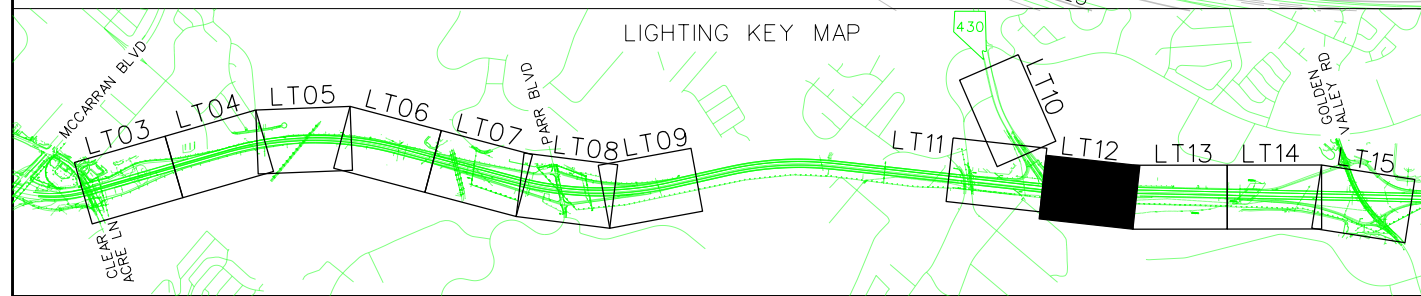


MATCHLINE "XN" 769+57 SEE SHEET LT11

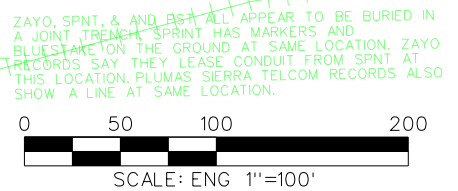
MATCHLINE "XN1" 784+05 SEE SHEET LT13



QUADRANT ARM OR SIGNAL LOCATION (TOP VIEW)



LIGHTING KEY MAP



ZAYO, SPNT, & AND BSA ALL APPEAR TO BE BURIED IN A JOINT TRENCH. SPRINT HAS MARKERS AND BLUE STAKE ON THE GROUND AT SAME LOCATION. ZAYO RECORDS SAY THEY LEASE CONDUIT FROM SPNT AT THIS LOCATION. PLUMAS SIERRA TELCOM RECORDS ALSO SHOW A LINE AT SAME LOCATION.

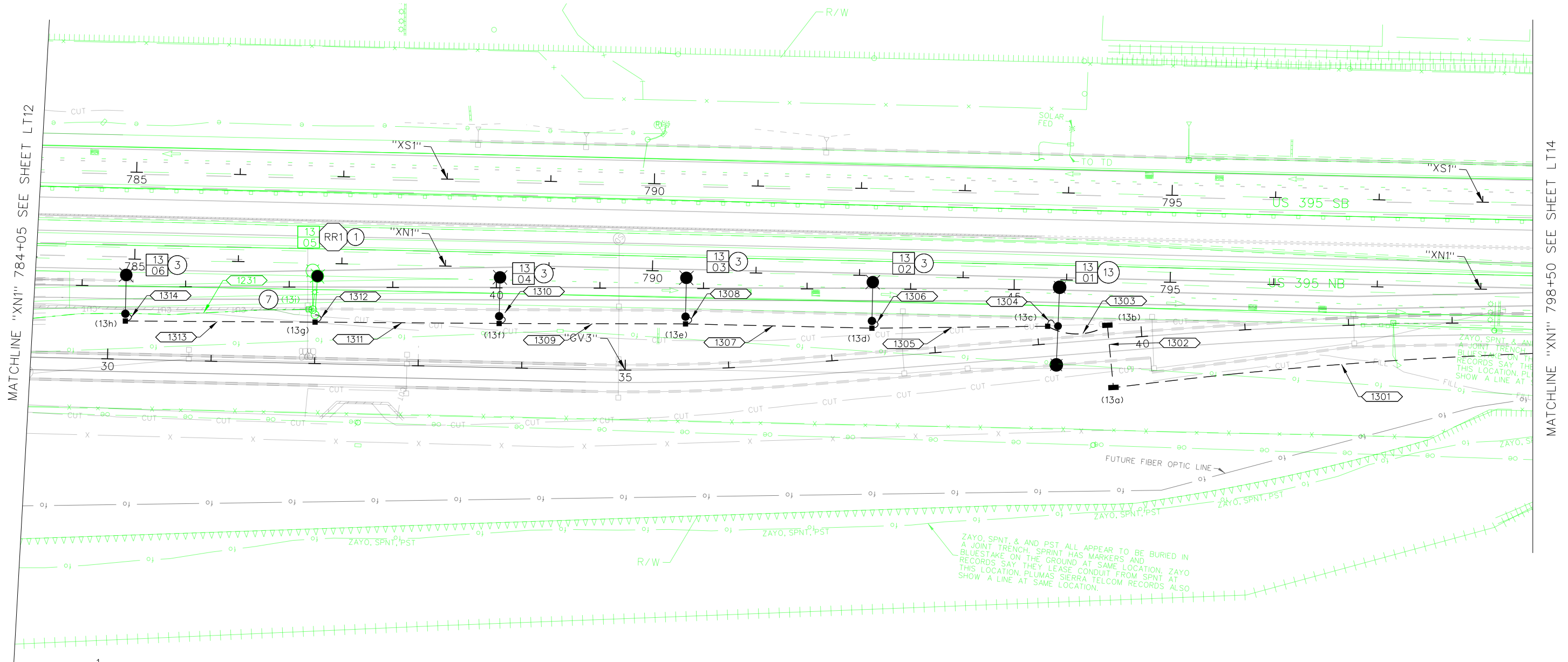
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
"XN" 769+57 TO
"XN1" 784+05

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT13

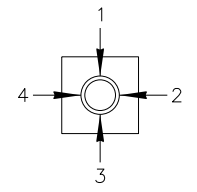
- ① REMOVE EXISTING LUMINAIRE HEAD. SHALL BE PAID FOR UNDER BID ITEM 202 0895, "REMOVE LIGHTING FIXTURES", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ③ INSTALL NEW LIGHT POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0570, "STEEL POLE, TYPE 7", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ⑦ REMOVE EXISTING PULL BOX. SHALL BE PAID FOR UNDER BID ITEM 202 0925, "REMOVAL OF PULL BOX", EACH.
- ⑬ INSTALL NEW LIGHT POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0585, "STEEL POLE, TYPE 14 (TWIN ARMS)", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.

RR1 REMOVE AND RESET EXISTING LIGHT POLE. SEE LIGHTING SCHEDULES FOR MORE INFORMATION. REMOVE ALL EXISTING CONDUCTORS BACK TO SOURCE. RECONNECT EXISTING LUMINAIRE CONDUCTORS IN THE POLE TO THE NEW POWER CONDUCTORS TO BE INSTALLED. SHALL BE PAID FOR UNDER BID ITEM 623 1445, "REMOVE AND RESET LIGHT POLE", EACH.

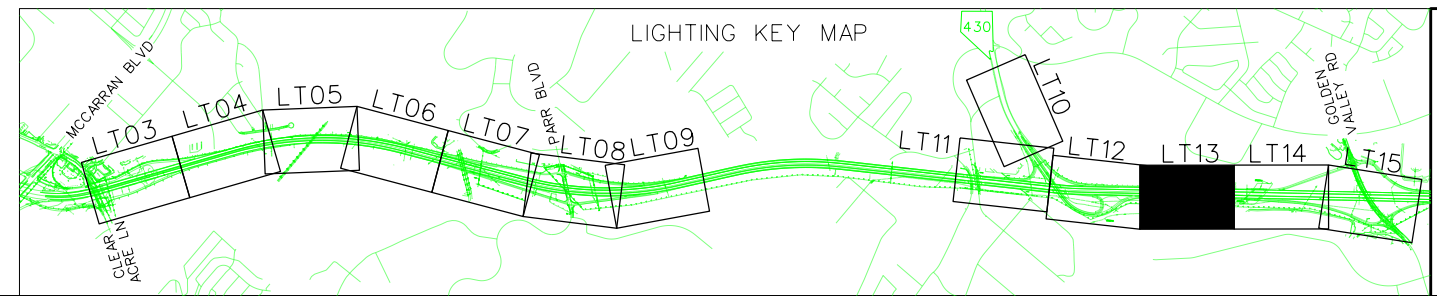


MATCHLINE "XN1" 784+05 SEE SHEET LT12

MATCHLINE "XN1" 798+50 SEE SHEET LT14



QUADRANT ARM OR SIGNAL LOCATION (TOP VIEW)



LIGHTING KEY MAP

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

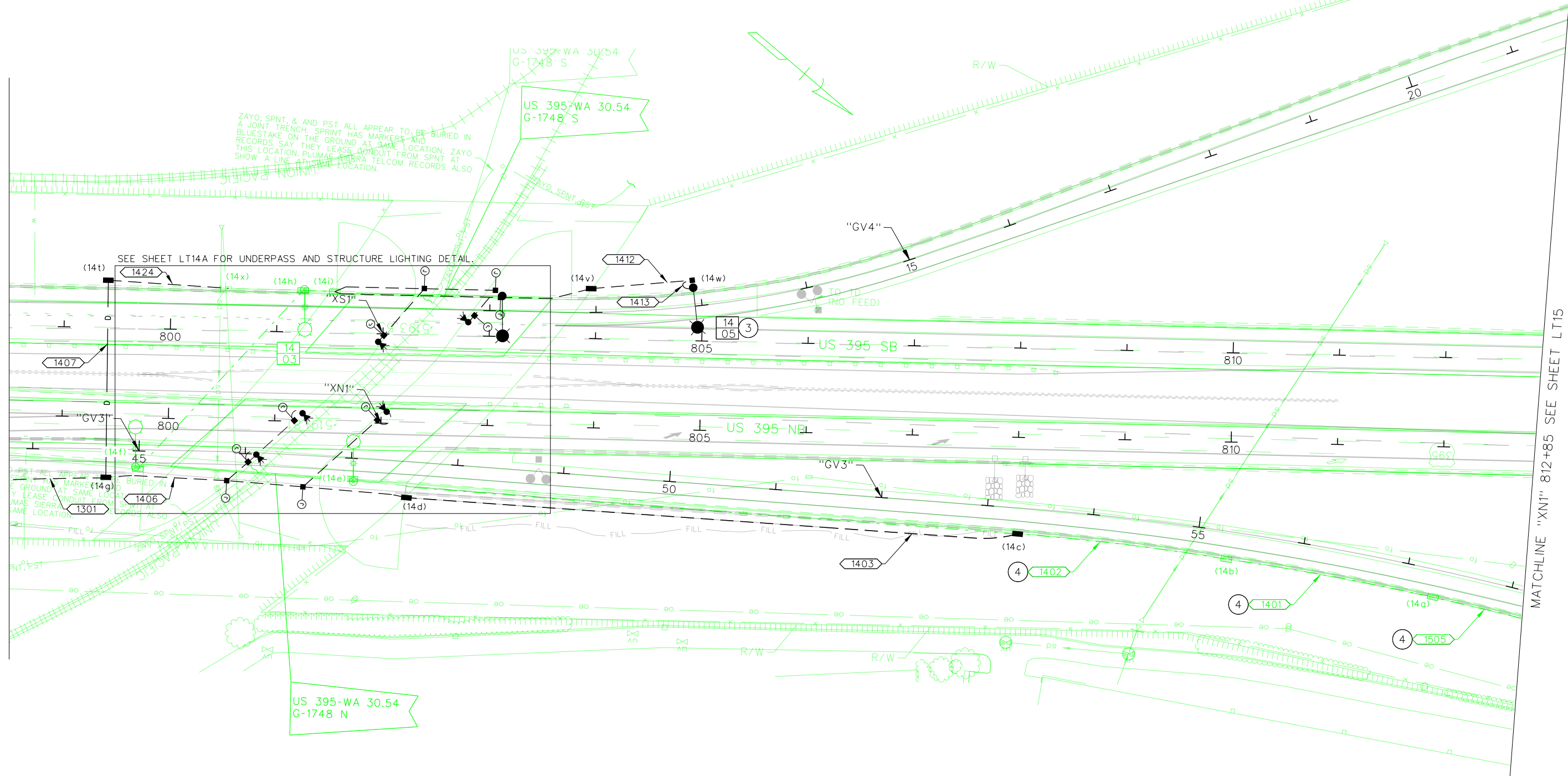
LIGHTING PLAN
"XN1" 784+05 TO
"XN1" 798+50

- ③ INSTALL NEW LIGHT POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0570, "STEEL POLE, TYPE 7", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ④ REMOVE EXISTING LIGHTING CONDUCTOR AND INSTALL NEW CONDUCTOR IN EXISTING CONDUIT. SEE LIGHTING CONDUIT SCHEDULES FOR MORE DETAILS.

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT14

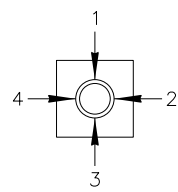
MATCHLINE "XN1" 798+50 SEE SHEET LT13

MATCHLINE "XN1" 812+85 SEE SHEET LT15

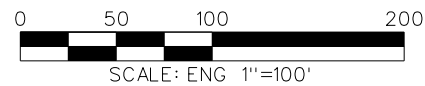


ZAYO, SPNT, & AND PST ALL APPEAR TO BE BURIED IN A JOINT TRENCH. SPRINT HAS MARKERS AND RECORDS SAY THEY LEASE CONDUIT FROM SPRINT AT THIS LOCATION. PLUMAS SIERRA TELCOM RECORDS ALSO SHOW A LINE AT SAME LOCATION.

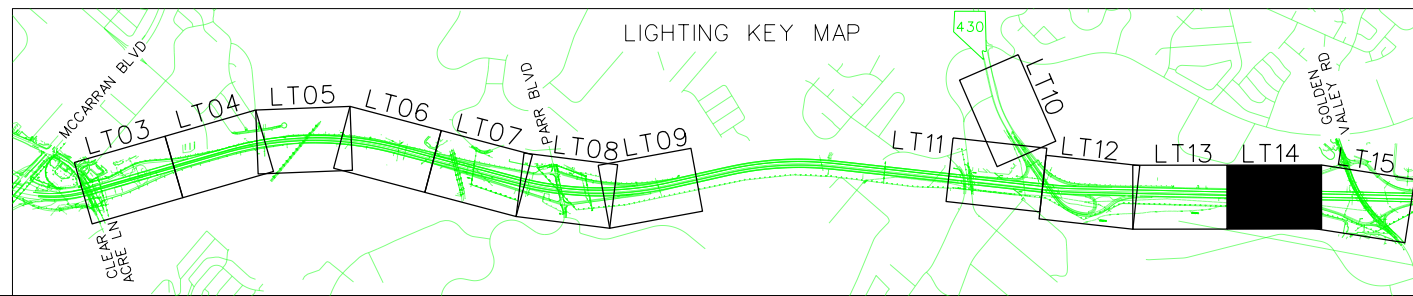
SEE SHEET LT14A FOR UNDERPASS AND STRUCTURE LIGHTING DETAIL.



QUADRANT ARM OR SIGNAL LOCATION (TOP VIEW)



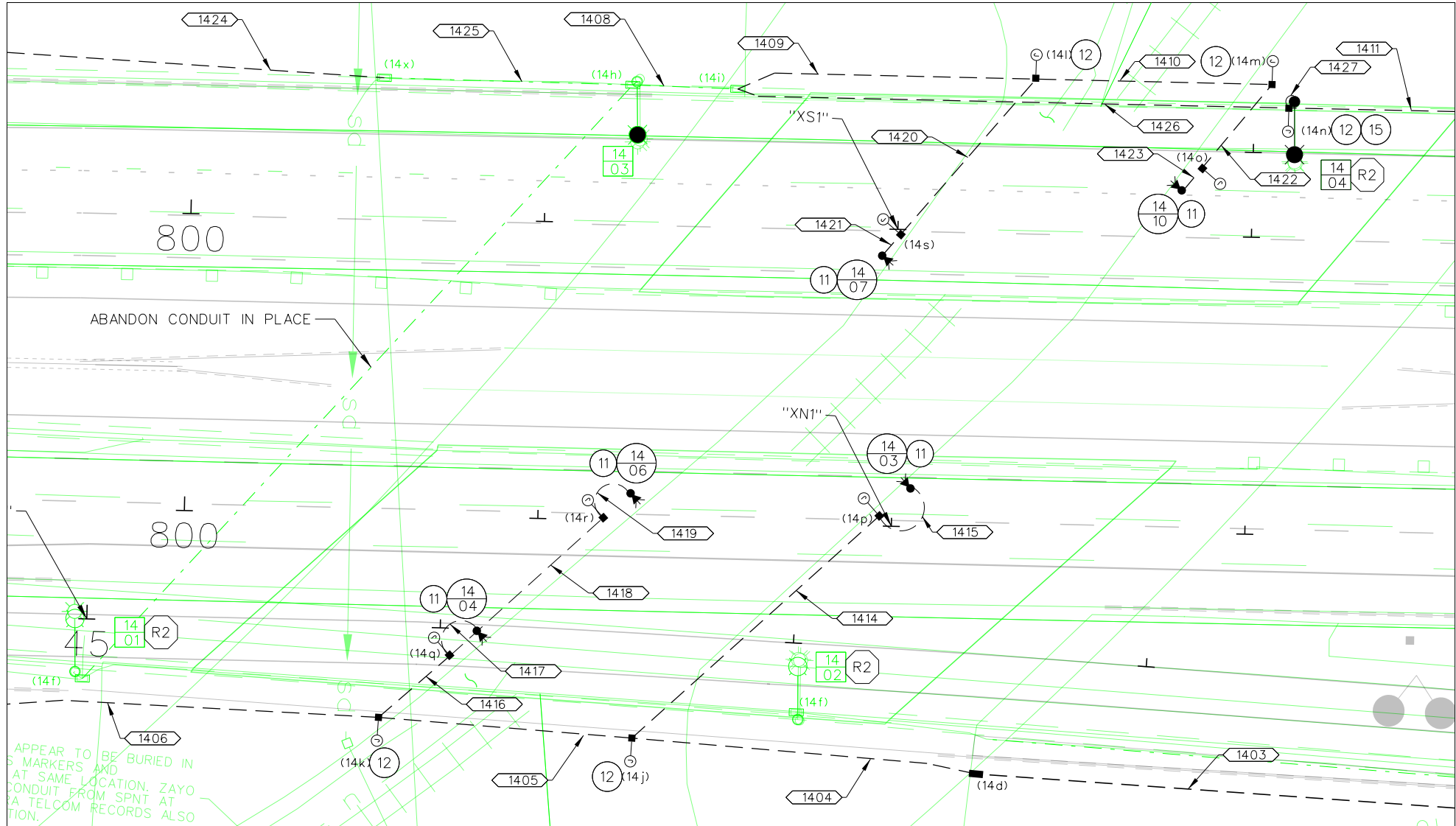
SCALE: ENG 1"=100'



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
"XN1" 798+50 TO
"XN1" 812+85

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT14A



- (11) INSTALL TYPE C UNDERPASS LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0355, "UNDERPASS LUMINAIRE, (TYPE C)", EACH.
- (12) INSTALL BRIDGE RAIL JUNCTION BOX PER 2020 STANDARD PLAN DETAIL TG-9. SHALL BE PAID FOR UNDER BID ITEM 623 0250, "JUNCTION BOX (A)", EACH.
- (14) INSTALL NEW BRIDGE RAIL LIGHT POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0580, "STEEL POLE, TYPE 7 (MODIFIED)", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- (R2) REMOVE EXISTING ROADWAY LIGHT POLE AND LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 202 0885, "REMOVAL OF LIGHT POLE", EACH.

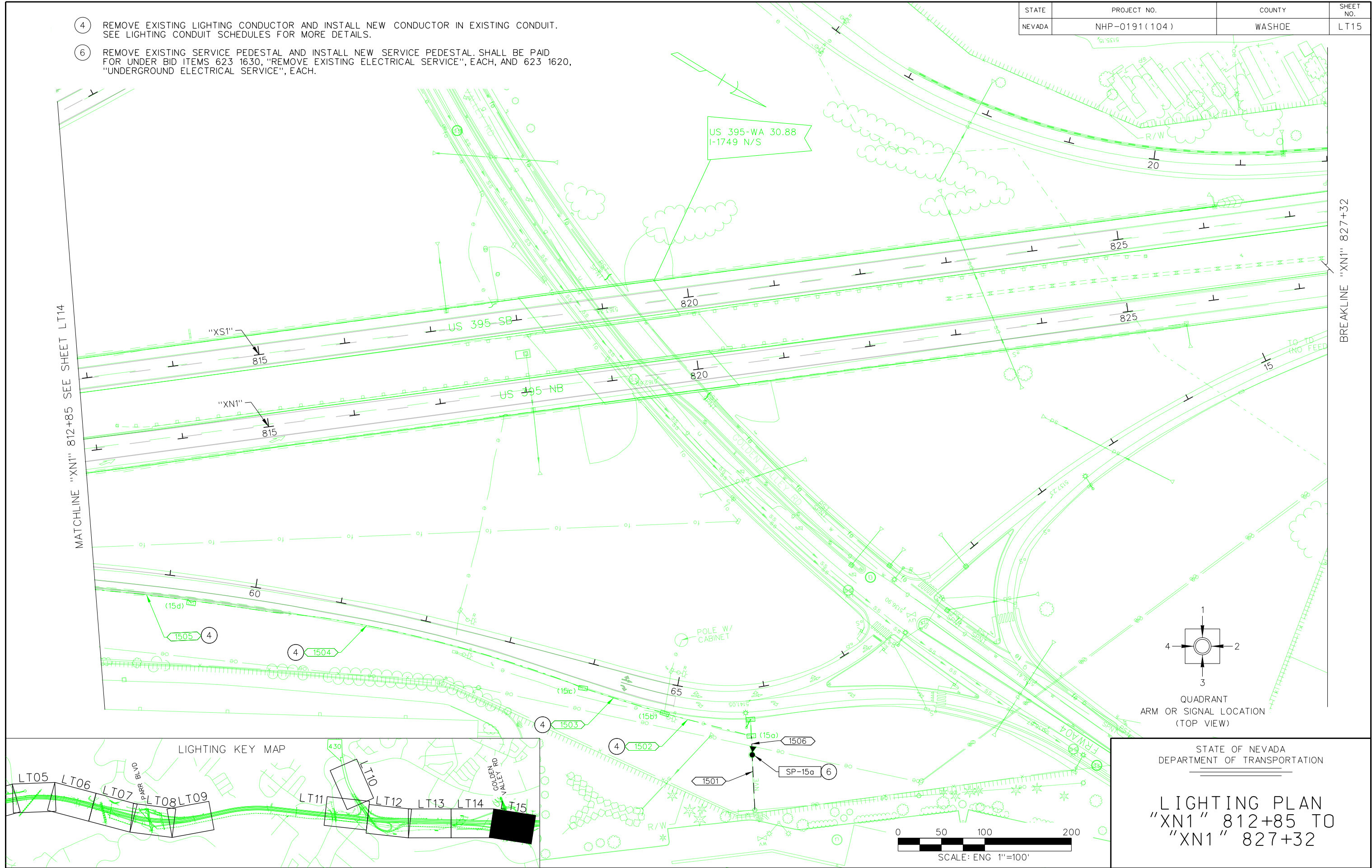
APPEAR TO BE BURIED IN S MARKERS AND AT SAME LOCATION. ZAYO CONDUIT FROM SPNT AT TA TELCOM RECORDS ALSO.

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
GRADE SEPARATION
G-1748 INSET

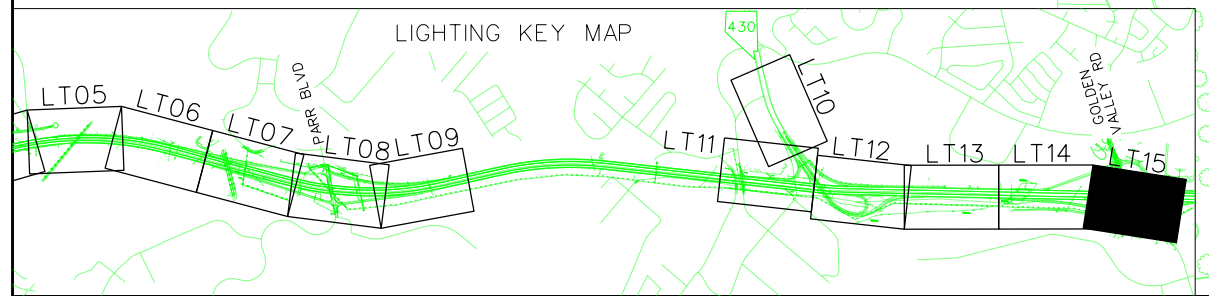
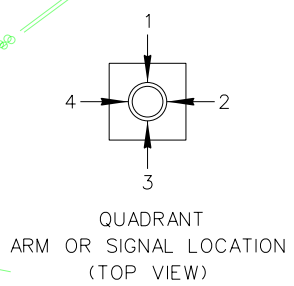
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT15

- ④ REMOVE EXISTING LIGHTING CONDUCTOR AND INSTALL NEW CONDUCTOR IN EXISTING CONDUIT. SEE LIGHTING CONDUIT SCHEDULES FOR MORE DETAILS.
- ⑥ REMOVE EXISTING SERVICE PEDESTAL AND INSTALL NEW SERVICE PEDESTAL. SHALL BE PAID FOR UNDER BID ITEMS 623 1630, "REMOVE EXISTING ELECTRICAL SERVICE", EACH, AND 623 1620, "UNDERGROUND ELECTRICAL SERVICE", EACH.



MATCHLINE "XN1" 812+85 SEE SHEET LT14

BREAKLINE "XN1" 827+32



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
"XN1" 812+85 TO
"XN1" 827+32

CON. RUN	FROM	TO	LEN. LINF T	DIR. DRILL	NTV BACK FILL	CONDUIT				CIRCUIT			CONDUCTOR								
						EX.	PLASTIC		METAL		SP #	CKT #	VOLTAGE	EX.	GRD						
							1-1/2"	3"	1-1/2"	3"					#10	#6	#4	#2	#1		
08 08	SP-08a	PULL BOX (08a)	33'			X															
08 09	PULL BOX (08a)	PULL BOX (08g)	69'			X															
08 10	PULL BOX (08g)	PULL BOX (08h)	119'			X															
08 11	PULL BOX (08h)	POLE 0802	5'			X															
08 12	PULL BOX (08h)	PULL BOX (08j)	128'			X															
08 13	PULL BOX (08j)	PULL BOX (09a)	799'			X															
08 14	PULL BOX (08b)	PULL BOX (08j)	44'																		
08 15	PULL BOX (08i)	PULL BOX (08k)	413'					1													
08 16	PULL BOX (08k)	PULL BOX (09m)	413'					1													
08 17	SP-08b	PULL BOX (08l)	16'					1													
								2													
																					EMPTY FOR FUTURE USE
08 18	PULL BOX (08l)	PULL BOX (08f)	54'					1													
09 01	PULL BOX (09a)	PULL BOX (09b)	313'			X															
09 02	PULL BOX (09b)	PULL BOX (09c)	181'			X															
09 03	PULL BOX (09c)	POLE 0903	5'			X															
09 04	PULL BOX (09c)	PULL BOX (09d)	173'					1													
09 05	PULL BOX (09d)	POLE 0902	5'					1													
09 06	PULL BOX (09d)	PULL BOX (09e)	152'					1													
09 07	PULL BOX (09e)	POLE 0901	5'					1													
09 08	PULL BOX (09c)	PULL BOX (09f)	180'					1													
09 09	PULL BOX (09f)	POLE 0904	5'					1													
09 10	PULL BOX (09f)	PULL BOX (09g)	180'					1													
09 11	PULL BOX (09g)	POLE 0905	5'					1													
09 12	PULL BOX (09m)	PULL BOX (09h)	193'					1													
09 13	PULL BOX (09h)	POLE 0906	5'			X															
09 14	PULL BOX (09h)	PULL BOX (09i)	180'					1													
09 15	PULL BOX (09i)	POLE 0907	5'					1													
09 16	PULL BOX (09i)	PULL BOX (09j)	179'					1													
09 17	PULL BOX (09j)	POLE 0908	5'					1													
09 18	PULL BOX (09j)	PULL BOX (09k)	177'					1													
09 19	PULL BOX (09k)	POLE 0909	5'					1													
09 20	PULL BOX (09k)	PULL BOX (09l)	180'					1													
09 21	PULL BOX (09l)	POLE 0910	5'					1													
10 01	SP-10a	PULL BOX (10a)	5'			X		1													
10 02	PULL BOX (10a)	PULL BOX (10b)	487'			X		1													

PULL BOX SCHEDULE											
NO.		STATION	OFFSET	LT/RT	EX.	TYPE	LOCKING LID	BURIED	CONCRETE COLLAR	HEAVY CONCRETE	COMMENTS
04	a	"XS"	635+53	63'	LT	X	-				
04	b	"XS"	637+22	57'	LT	X	-				
04	c	"XS"	638+63	27'	LT	X	-				
04	d	"XS"	635+96	39'	RT	X	-				
04	e	"XN"	637+42	39'	RT	X	-				
04	f	"XN"	638+88	39'	RT	X	-				
04	g	"XN"	640+34	39'	RT	X	-				
04	h	"XN"	641+83	39'	RT	X	-				
04	i	"XN"	643+31	39'	RT	X	-				
04	j	"XN"	644+82	39'	RT	X	-				
04	k	"XN"	637+75	64'	RT		NO. 3-1/2 PULL BOX, MOD				
04	l	"XN"	639+55	54'	RT		NO. 3-1/2 PULL BOX, MOD				
04	m	"XN"	641+36	53'	RT		NO. 3-1/2 PULL BOX, MOD				
04	n	"XN"	643+18	53'	RT		NO. 3-1/2 PULL BOX, MOD				
04	o	"XN"	645+00	52'	RT		NO. 3-1/2 PULL BOX, MOD				
04	p	"XS"	637+22	57'	LT		NO. 3-1/2 PULL BOX, MOD				
04	q	"XS"	638+96	57'	LT		NO. 3-1/2 PULL BOX, MOD				
04	r	"XS"	633+98	64'	LT	X	-				
05	a	"XN"	646+26	40'	RT	X	-				
05	b	"XN"	647+80	39'	RT	X	-				
05	c	"XN"	649+28	35'	RT	X	-				
05	d	"XN"	646+81	55'	RT		NO. 3-1/2 PULL BOX, MOD				
05	e	"XN"	648+62	55'	RT		NO. 3-1/2 PULL BOX, MOD				
05	f	"XN"	650+44	56'	RT		NO. 3-1/2 PULL BOX, MOD				
06	a	"XS"	667+02	47'	LT		NO. 3-1/2 PULL BOX, MOD				
06	b	"XS"	668+81	50'	LT		NO. 3-1/2 PULL BOX, MOD				
06	c	"XS"	670+61	51'	LT		NO. 3-1/2 PULL BOX, MOD				
06	d	"XS"	672+41	57'	LT		NO. 3-1/2 PULL BOX, MOD				
06	e	"XN"	672+37	51'	RT		NO. 3-1/2 PULL BOX, MOD				
07	a	"XS"	674+21	66'	LT		NO. 3-1/2 PULL BOX, MOD				
07	b	"XN"	678+46	30'	RT	X	-				
07	c	"XN"	674+16	49'	RT		NO. 3-1/2 PULL BOX, MOD				
07	d	"XN"	675+96	58'	RT		NO. 3-1/2 PULL BOX, MOD				
07	e	"XN"	677+77	65'	RT	X	-				
07	f	"PD4"	27+21	26'	LT		NO. 5 PULL BOX, MOD				
08	a	"PD"	17+56	45'	LT	X	-				
08	b	"PD"	16+82	52'	LT	X	-				
08	c	"PD"	15+86	51'	LT	X	-				
08	d	"PD"	11+98	41'	LT	X	-				
08	e	"PD"	10+96	48'	LT	X	-				
08	f	"PD"	10+70	63'	RT		NO. 7 PULL BOX, MOD				
08	g	"PD"	17+58	24'	RT	X	-				
08	h	"PD"	16+38	39'	RT	X	-				
08	i	"PD"	10+90	63'	LT		NO. 7 PULL BOX, MOD				
08	j	"PD"	16+55	86'	LT	X	-				
08	k	"PD1"	14+55	43'	LT		NO. 5 PULL BOX, MOD				
08	l	"PD4"	23+93	105'	LT		NO. 7 PULL BOX, MOD				
09	a	"XN"	702+85	65'	RT	X	-				
09	b	"XN"	705+93	48'	RT	X	-				
09	c	"XN"	707+72	49'	RT	X	-				
09	d	"XN"	706+01	60'	RT		NO. 5 PULL BOX, MOD				
09	e	"XN"	704+52	64'	RT		NO. 3-1/2 PULL BOX, MOD				
09	f	"XN"	709+51	46'	RT		NO. 3-1/2 PULL BOX, MOD				
09	g	"XN"	711+30	50'	RT		NO. 3-1/2 PULL BOX, MOD				
09	h	"XS"	705+34	60'	LT	X	-				
09	i	"XS"	707+14	54'	LT		NO. 3-1/2 PULL BOX, MOD				
09	j	"XS"	708+95	48'	LT		NO. 3-1/2 PULL BOX, MOD				
09	k	"XS"	711+26	47'	LT		NO. 3-1/2 PULL BOX, MOD				
09	l	"XS"	713+07	48'	LT		NO. 3-1/2 PULL BOX, MOD				
09	m	"PD1"	18+73	39'	LT		NO. 5 PULL BOX, MOD				
10	a	"X"	109+48	77'	RT	X	-				

STATE OF NEVADA
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LIGHTING SCHEDULES

PULL BOX SCHEDULE											
NO.		STATION	OFFSET	LT/RT	EX.	TYPE	LOCKING LID	BURIED	CONCRETE COLLAR	HEAVY CONCRETE	COMMENTS
10	b	"X"	114+27	70'	RT	X	-				
10	c	"X"	119+35	47'	RT	X	-				
11	a	"V2"	18+16	17'	LT	X	-				
11	b	"V2"	17+10	22'	LT	X	-				
11	c	"V4"	15+16	46'	RT	X	-				
11	d	"V4"	17+56	42'	RT	X	-				
11	e	"XS"	765+94	82'	LT		NO. 3-1/2 PULL BOX, MOD				
11	f	"XS"	764+21	56'	LT		NO. 3-1/2 PULL BOX, MOD				
11	g	"XS"	762+41	46'	LT	X	-				
11	h	"XS"	760+62	50'	LT		NO. 3-1/2 PULL BOX, MOD				
11	i	"XS"	759+00	48'	LT		NO. 3-1/2 PULL BOX, MOD				
11	j	"XN"	765+32	60'	RT		NO. 3-1/2 PULL BOX, MOD				
11	k	"XN"	763+52	56'	RT		NO. 3-1/2 PULL BOX, MOD				
11	l	"XN"	761+72	51'	RT		NO. 3-1/2 PULL BOX, MOD				
11	m	"XN"	759+92	47'	RT		NO. 3-1/2 PULL BOX, MOD				
11	n	"XN"	759+39	43'	RT		NO. 7 PULL BOX, MOD				
11	o	"V3"	29+89	26'	RT		NO. 7 PULL BOX, MOD				
11	p	"V1"	13+42	34'	LT		NO. 7 PULL BOX, MOD				
11	q	"XS"	758+85	42'	LT		NO. 7 PULL BOX, MOD				
11	r	"XS"	764+41	51'	LT	X	-				
11	t	"XS"	756+21	41'	LT		NO. 7 PULL BOX, MOD				
11	x	"XN"	756+62	42'	RT		NO. 7 PULL BOX, MOD				
12	a	"XS"	771+40	32'	LT		NO. 3-1/2 PULL BOX, MOD				
12	b	"XN"	770+25	49'	RT		NO. 3-1/2 PULL BOX, MOD				
12	c	"V4"	21+12	27'	RT	X	-				
12	d	"V3"	23+34	16'	RT	X	-				
12	e	"V3"	21+26	68'	RT	X	-				
12	f	"V3"	18+94	117'	RT	X	-				
12	g	"V3"	16+26	25'	RT	X	-				
12	h	"V3"	17+59	26'	RT	X	-				
12	i	"V3"	14+97	16'	RT	X	-				
12	j	"GV3"	23+52	28'	RT		NO. 7 PULL BOX, MOD				
12	k	"GV3"	23+89	37'	RT		NO. 3-1/2 PULL BOX, MOD				
12	l	"GV3"	25+70	35'	RT		NO. 3-1/2 PULL BOX, MOD				
12	m	"XN1"	775+95	72'	RT		NO. 3-1/2 PULL BOX, MOD				
12	n	"XN"	774+15	65'	RT		NO. 3-1/2 PULL BOX, MOD				
12	o	"V1"	21+27	37'	LT		NO. 3-1/2 PULL BOX, MOD				
12	p	"V1"	23+07	37'	LT		NO. 3-1/2 PULL BOX, MOD				
12	q	"XS1"	778+85	61'	LT		NO. 3-1/2 PULL BOX, MOD				
12	r	"XS1"	780+65	54'	LT		NO. 3-1/2 PULL BOX, MOD				
12	s	"V1"	21+18	16'	LT	X	-				SHALL BE REMOVED
12	t	"V1"	22+79	11'	LT	X	-				SHALL BE REMOVED
12	u	"XN1"	777+12	80'	RT	X	-				
13	a	"GV3"	39+68	47'	RT		NO. 7 PULL BOX, MOD				
13	b	"GV3"	39+68	14'	LT		NO. 7 PULL BOX, MOD				
13	c	"XN1"	793+83	45'	RT		NO. 3-1/2 PULL BOX, MOD				
13	d	"XN1"	792+13	51'	RT		NO. 3-1/2 PULL BOX, MOD				
13	e	"XN1"	790+33	51'	RT		NO. 3-1/2 PULL BOX, MOD				
13	f	"XN1"	788+53	54'	RT		NO. 3-1/2 PULL BOX, MOD				
13	g	"XN1"	786+42	57'	RT		NO. 3-1/2 PULL BOX, MOD				
13	h	"XN1"	784+92	60'	RT		NO. 3-1/2 PULL BOX, MOD				
13	i	"XN1"	786+69	45'	RT	X	-				SHALL BE REMOVED
14	a	"GV3"	57+29	26'	RT	X	-				
14	b	"GV3"	55+30	26'	RT	X	-				
14	c	"GV3"	53+30	24'	RT		NO. 7 PULL BOX, MOD				
14	d	"XN1"	802+26	69'	RT		NO. 7 PULL BOX, MOD				
14	e	"XN1"	801+74	53'	RT	X	-				
14	f	"XN1"	799+72	48'	RT	X	-				
14	g	"XN1"	799+41	57'	RT		NO. 7 PULL BOX, MOD				
14	h	"XS1"	801+24	39'	LT	X	-				
14	i	"XS1"	801+54	39'	LT	X	-				
14	t	"XS1"	799+41	45'	LT		NO. 7 PULL BOX, MOD				
14	w	"XS1"	804+90	57'	LT		NO. 3-1/2 PULL BOX, MOD				
14	v	"XS1"	804+95	48'	LT		NO. 7 PULL BOX, MOD				
14	x	"XS1"	800+54	40'	LT	X	-				
15	a	"GV3"	65+80	55'	RT	X	-				
15	b	"GV3"	64+92	34'	RT	X	-				
15	c	"GV3"	63+95	30'	RT	X	-				

JUNCTION BOX SCHEDULE						
NO.	STATION	OFFSET	LT/RT/EX.	TYPE	COMMENTS	
11	s	"XS" 756+71	38'	LT	JUNCTION BOX (A)	
11	u	"XN" 758+80	38'	RT	JUNCTION BOX (A)	
11	v	"XN" 758+18	38'	RT	JUNCTION BOX (A)	
11	w	"XN" 757+20	37'	RT	JUNCTION BOX (A)	
11	y	"XS" 758+36	26'	LT	JUNCTION BOX (A)	
11	z			-	-	INTENTIONALLY LEFT BLANK
11	aa	"XS" 756+75	26'	LT	JUNCTION BOX (A)	
11	ab			-	-	INTENTIONALLY LEFT BLANK
11	ac	"XN" 757+08	4'	LT	JUNCTION BOX (A)	
11	ad			-	-	INTENTIONALLY LEFT BLANK
11	ae	"XN" 758+68	3'	LT	JUNCTION BOX (A)	
11	af	"XN" 758+78	28'	RT	JUNCTION BOX (A)	
11	ag	"XS" 758+32	38'	LT	JUNCTION BOX (A)	
11	ah	"XN" 758+23	28'	RT	JUNCTION BOX (A)	
11	ai			-	-	INTENTIONALLY LEFT BLANK
11	aj			-	-	INTENTIONALLY LEFT BLANK
11	ak	"XS" 757+27	26'	LT	JUNCTION BOX (A)	
14	j	"XN1" 801+25	64'	RT	JUNCTION BOX (A)	
14	k	"XN" 800+52	60'	RT	JUNCTION BOX (A)	
14	l	"XS1" 802+35	39'	LT	JUNCTION BOX (A)	SURFACE MOUNTED ON BRIDGE RAIL
14	m	"XS" 803+02	39'	LT	JUNCTION BOX (A)	SURFACE MOUNTED ON BRIDGE RAIL
14	n	"XS1" 803+10	37'	LT	JUNCTION BOX (A)	
14	o	"XS" 802+86	19'	LT	JUNCTION BOX (A)	
14	p	"XN1" 801+97	3'	LT	JUNCTION BOX (A)	
14	q	"XN1" 800+76	39'	RT	JUNCTION BOX (A)	
14	r	"XN1" 801+19	1'	LT	JUNCTION BOX (A)	

UNDERPASS LIGHTING LUMINAIRE SCHEDULE										
MOUNTING					LUMINAIRE					COMMENTS
NO.	STATION	OFFSET	LT/RT/EX.	EX.	SERV. PED.	CKT	PHOTOCELL	TYPE		
11	01				-	-		-	INTENTIONALLY LEFT BLANK	
11	02	"XN" 758+67	13'	LT		SP-10a	18		UNDERPASS LUMINAIRE (TYPE C)	
11	03				-	-		-	INTENTIONALLY LEFT BLANK	
11	04	"XN" 757+05	13'	LT		SP-10a	18		UNDERPASS LUMINAIRE (TYPE C)	
11	05				-	-		-	INTENTIONALLY LEFT BLANK	
11	06	"XS" 756+78	17'	LT		SP-10a	14		UNDERPASS LUMINAIRE (TYPE C)	
11	07				-	-		-	INTENTIONALLY LEFT BLANK	
11	08	"XS" 758+40	17'	LT		SP-10a	14		UNDERPASS LUMINAIRE (TYPE C)	
11	09	"XN" 758+20	17'	RT		SP-10a	18		UNDERPASS LUMINAIRE (TYPE C)	
11	10				-	-		-	INTENTIONALLY LEFT BLANK	
11	11	"XS" 757+33	17'	LT		SP-10a	14		UNDERPASS LUMINAIRE (TYPE C)	
11	12				-	-		-	INTENTIONALLY LEFT BLANK	
14	03	"XN" 802+05	11'	LT		SP-15a	1		UNDERPASS LUMINAIRE (TYPE C)	
14	04	"XN" 800+83	32'	RT		SP-15a	1		UNDERPASS LUMINAIRE (TYPE C)	
14	06	"XN" 801+26	8'	LT		SP-15a	1		UNDERPASS LUMINAIRE (TYPE C)	
14	07	"XS" 801+96	8'	RT		SP-15a	1		UNDERPASS LUMINAIRE (TYPE C)	
14	10	"XS" 802+80	13'	LT		SP-15a	1		UNDERPASS LUMINAIRE (TYPE C)	

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING
SCHEDULES

STREET LIGHTING LUMINAIRE SCHEDULE																		
NO.	STATION	POLE				LUMINAIRE								IN-POLE QUANTITIES			COMMENTS	
		OFFSET	LT/RT	TYPE	SAFETY BASE	EX.	EX.	SERV. PED	CKT	# OF LUM'R	QUAD	ARM LENGTH	TYPE	EX.	LUMINAIRE			
															NO. 10	NO. 8		NO. 6
03 01	"RE"	11+84	25'	LT	7		X	-	-	1	3	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 02	"RE"	13+16	17'	LT	7		X	-	-	1	3	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 03	"RE"	14+86	24'	LT	7		X	-	-	1	3	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 04	"RE"	16+50	25'	LT	7		X	-	-	1	3	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 05	"RE"	18+18	24'	LT	7		X	-	-	1	3	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 06	"RE"	19+94	25'	LT	7		X	-	-	1	3	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 07	"RE"	21+59	25'	LT	7		X	-	-	1	3	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 08	"RE"	23+23	25'	LT	7		X	-	-	1	3	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 09	"RD"	11+38	30'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 10	"RD"	12+86	37'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 11	"RD"	14+33	29'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 12	"RD"	15+78	30'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 13	"RD"	17+26	29'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 14	"RD"	18+74	28'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 15	"RD"	20+21	28'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 16	"RD"	21+68	29'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
03 17	"RD"	23+19	29'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
04 01	"RE"	25+04	25'	LT	7		X	-	-	1	3	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
04 02	"RE"	26+64	25'	LT	7		X	-	-	1	3	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
04 03	"XS"	635+53	63'	LT	7		X	-	-	1	3	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
04 04	"XS"	637+22	50'	LT	7		X	-	-	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE AND RESET AS INDICATED. REPLACE LUMINAIRE HEAD.
04 05	"XS"	638+96	51'	LT	7		X	-	-	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE AND RESET AS INDICATED. REPLACE LUMINAIRE HEAD.
04 06	"XN"	632+98	60'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
04 07	"XN"	634+45	57'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
04 08	"XN"	635+95	60'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
04 09	"XN"	637+75	57'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE AND RESET AS INDICATED. REPLACE LUMINAIRE HEAD.
04 10	"XN"	639+55	47'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE AND RESET AS INDICATED. REPLACE LUMINAIRE HEAD.
04 11	"XN"	640+35	42'	RT	7		X	X	-	1	1	15'	HPS	X				REMOVAL ONLY.
04 12	"XN"	641+36	46'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE AND RESET AS INDICATED. REPLACE LUMINAIRE HEAD.
04 13	"XN"	643+17	46'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE AND RESET AS INDICATED. REPLACE LUMINAIRE HEAD.
04 14	"XN"	644+99	45'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE AND RESET AS INDICATED. REPLACE LUMINAIRE HEAD.
05 01	"XN"	646+81	48'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE AND RESET AS INDICATED. REPLACE LUMINAIRE HEAD.
05 02	"XN"	648+63	48'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE AND RESET AS INDICATED. REPLACE LUMINAIRE HEAD.
05 03	"XN"	650+44	48'	RT	7		X	-	-	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE AND RESET AS INDICATED. REPLACE LUMINAIRE HEAD.
06 01	"XS"	667+02	39'	LT	7			SP-08b	9	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
06 02	"XS"	668+81	43'	LT	7			SP-08b	9	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
06 03	"XS"	670+61	43'	LT	7			SP-08b	9	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
06 04	"XS"	672+41	50'	LT	7			SP-08b	9	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
06 05	"XN"	672+37	51'	LT	7			SP-08b	13	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
07 01	"XS"	674+21	58'	RT	7			SP-08b	9	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
07 02	"XN"	674+17	42'	LT	7			SP-08b	13	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
07 03	"XN"	675+97	51'	RT	7			SP-08b	13	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
07 04	"XN"	677+76	59'	RT	7		X	SP-08b	13	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
08 01	"PD"	10+94	57'	LT	7		X	SP-08a	5	1	3.5	15'	LUMINAIRE (TYPE A) (SL)		135'			REMOVE AND RESET AS INDICATED.
08 02	"PD"	16+40	42'	RT	7		X	SP-08a	5	1	1.5	15'	LUMINAIRE (TYPE A) (SL)	X				NO WORK NEEDED.
09 01	"XN"	704+51	57'	RT	7			SP-08b	17	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
09 02	"XN"	706+01	52'	RT	7			SP-08b	17	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
09 03	"XN"	707+74	47'	RT	7		X	SP-08b	17	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
09 04	"XN"	709+51	39'	RT	7			SP-08b	17	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
09 05	"XN"	711+30	43'	RT	7			SP-08b	17	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
09 06	"XS"	705+32	59'	LT	7		X	SP-08b	21	1	3	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
09 07	"XS"	707+14	47'	LT	7			SP-08b	21	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
09 08	"XS"	708+94	41'	LT	7			SP-08b	21	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
09 09	"XS"	711+27	39'	LT	7			SP-08b	21	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
09 10	"XS"	713+07	41'	LT	7			SP-08b	21	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW

STREET LIGHTING LUMINAIRE SCHEDULE

NO.	POLE						LUMINAIRE							IN-POLE QUANTITIES			COMMENTS	
	STATION	OFFSET	LT/RT	TYPE	SAFETY BASE	EX.	SERV. PED	CKT	# OF LUM'R	QUAD	ARM LENGTH	TYPE	EX.	LUMINAIRE				
														NO. 10	NO. 8	NO. 6		
10 01	"X"	119+31	48'	RT	7		X	SP-10a	5	1	1	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
11 01	"XS"	758+83	41'	LT	7			SP-10a	5	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
11 02	"XS"	760+62	43'	LT	7			SP-10a	5	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
11 03	"XS"	762+41	42'	LT	7		X	SP-10a	5	1	3	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
11 04	"XS"	764+21	49'	LT	7			SP-10a	5	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
11 05	"XS"	765+98	76'	LT	7			SP-10a	5	1	2.5	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
11 06	"V2"	18+20	14'	LT	7		X	SP-10a	5	1	1.5	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
11 07	"XN"	758+12	38'	RT	7 MOD			SP-10a	9	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW BRIDGE RAIL LIGHT POLE. SEE STRUCTURES SHEETS FOR FOUNDATION DETAILS.
11 08	"XN"	759+92	44'	RT	7			SP-10a	9	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
11 09	"XN"	761+72	44'	RT	7			SP-10a	9	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
11 10	"XN"	763+52	49'	RT	7			SP-10a	9	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
11 11	"XN"	765+32	53'	RT	7			SP-10a	9	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
12 01	"V1"	21+27	30'	LT	7		X	SP-10a	17	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE AND RESET AS INDICATED. REPLACE LUMINAIRE HEAD.
12 02	"V1"	23+07	30'	LT	7		X	SP-10a	17	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE AND RESET AS INDICATED. REPLACE LUMINAIRE HEAD.
12 03	"XS1"	778+85	54'	LT	7			SP-10a	17	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
12 04	"XS1"	780+65	47'	LT	7			SP-10a	17	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
12 05	"XN"	774+16	58'	RT	7			SP-10a	13	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
12 06	"XN1"	775+95	65'	RT	7		X	SP-10a	13	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE AND RESET AS INDICATED. REPLACE LUMINAIRE HEAD.
12 07	"V3"	14+94	10'	RT	7		X	SP-10a	13	1	1.5	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
12 08	"GV3"	23+89	30'	RT	7			SP-10a	13	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
12 09	"GV3"	25+69	28'	RT	7			SP-10a	13	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
12 10	"V3"	16+19	12'	RT	7		X	SP-10a	13	1	2.5	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
12 11	"V3"	17+62	12'	RT	7		X	SP-10a	13	1	2.5	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
13 01	"XN1"	793+93	45'	RT	14			SP-15a	5	2	1: 3	15'	LUMINAIRE (TYPE B) (SL)		270'			NEW
13 02	"XN1"	792+13	44'	RT	7			SP-15a	5	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
13 03	"XN1"	790+33	44'	RT	7			SP-15a	5	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
13 04	"XN1"	788+53	47'	RT	7			SP-15a	5	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
13 05	"XN1"	786+75	50'	RT	7		X	SP-15a	5	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE AND RESET AS INDICATED. REPLACE LUMINAIRE HEAD.
13 06	"XN1"	784+92	53'	RT	7			SP-15a	5	1	1	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW
14 01	"XN1"	799+70	46'	RT	7		X X	SP-15a	17	1	1	15'	HPS	X				REMOVAL ONLY.
14 02	"XN1"	801+75	56'	RT	7		X X	SP-15a	17	1	1	15'	HPS	X				REMOVAL ONLY.
14 03	"XS1"	801+24	39'	LT	7		X	SP-15a	17	1	3	15'	LUMINAIRE (TYPE B) (SL)	X				REPLACE LUMINAIRE HEAD.
14 04	"XS1"	803+11	38'	LT	7 MOD		X	SP-15a	17	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			REMOVE EXISTING POLE WITH BRIDGE RAIL DEMOLITION AND REPLACE WITH NEW RAIL CONSTRUCTION. SEE STRUCTURES SHEETS FOR FOUNDATION DETAILS.
14 05	"XS1"	804+91	50'	LT	7			SP-15a	17	1	3	15'	LUMINAIRE (TYPE B) (SL)		135'			NEW

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING
SCHEDULES

SERVICE PEDESTAL LOCATION SCHEDULE									
SERVICE PEDESTAL LABEL/NAME	STATION	OFFSET	LT/RT	TYPE	MODIFY EXISTING SERVICE	EX.	OWNERSHIP	ADDRESS	COMMENTS
SP-08a	"PD"	17+71	73'	LT	OVERHEAD		NDOT	1100 PARR BLVD	
SP-08b	"PD4"	23+92	114'	LT	UNDERGROUND		NDOT		
SP-10a	"X"	109+32	77'	RT	UNDERGROUND		NDOT	6350 N. VIRGINIA ST.	UPGRADE TO 200A SERVICE
SP-15a	"GV3"	65+79	77'	RT	UNDERGROUND		NDOT	7990 GOLDEN VALLEY RD.	UPGRADE TO 200A SERVICE

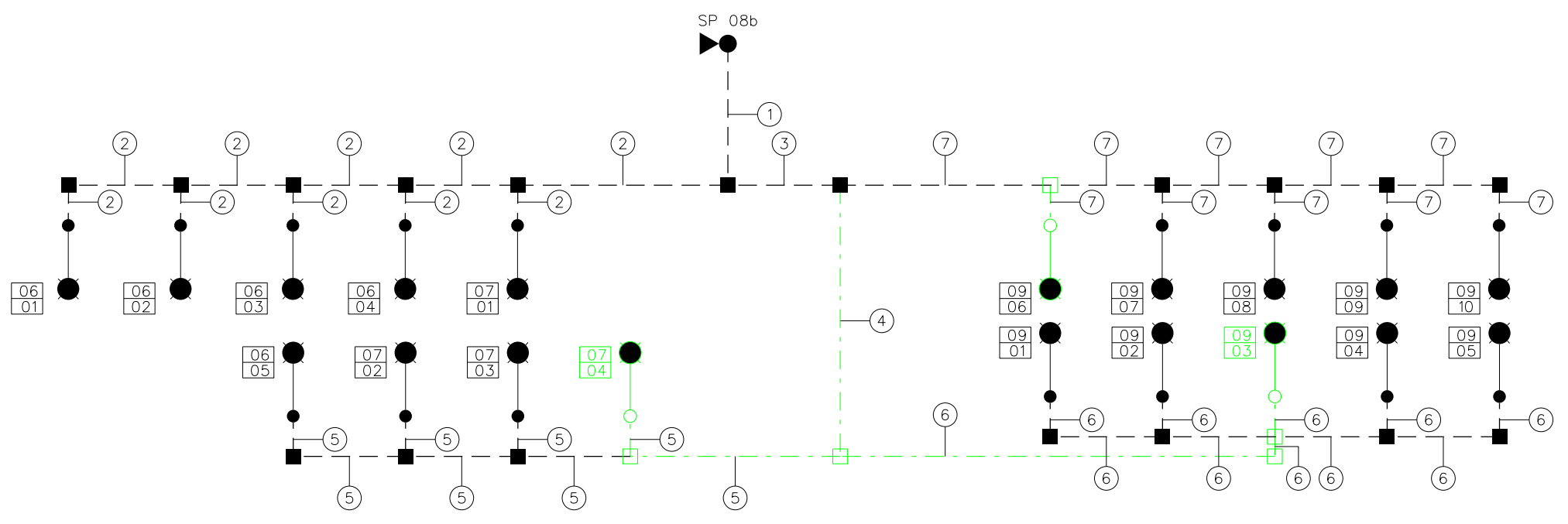
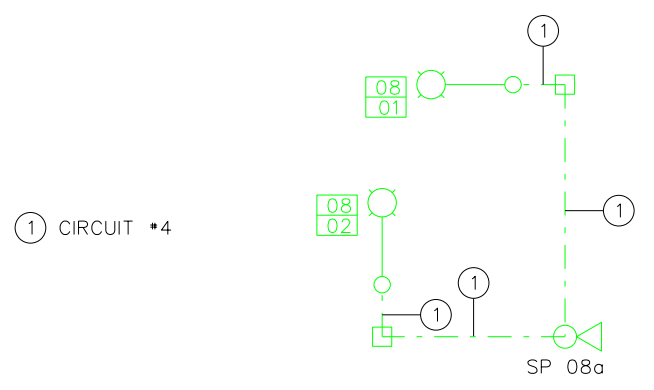
SERVICE PANEL No.: SP-08a		PHASE: 1 PHASE									
LOCATION: PARR/DANDINI		WIRING METHOD: 120/240V 3-WIRE (1PH)									
VOLTAGE: 240		ENCLOSURE TYPE: NEMA 3R									
AMPACITY: 100		MAIN UTILITY CONNECTION: MAIN CIRCUIT BREAKER									
MIN. INT. RATING: 10kA		NEW/EXIST. SERVICE PED.: EXISTING									
BREAKER SPACE: 16		OWNERSHIP: NDOT									
<small>(MLO)=MAIN LUGS ONLY, (MCB)=MAIN CIRCUIT BREAKER, (N)=NEW, (E)=EXISTING, (PH)=PHASE, (X)=POLE BKR SPACE: ALL LIGHTING LOADS SHALL HAVE A 1.25 DEMAND FACTOR APPLIED</small>											
DESCRIPTION	CKT#	LOAD (VA)	BKR	BKR SPACE	PHASE		BKR SPACE	BKR	LOAD (VA)	CKT#	DESCRIPTION
					A	B					
MAIN (MCB)			100/2		----	----		100/2			MAIN (MCB)
BRIDGE LIGHTING	1	840	20	1	840	----	9			9	SPACE
BRIDGE LIGHTING	2	840	20	2	840	----	10			10	SPACE
PHOTOCELL	3	100	15	3	100	----	11			11	SPACE
LIGHTING - PARR BLVD	4	430	20	4	430	----	12			12	SPACE
WRONG WAY DRIVER SYSTEM	5	600	20	5	600	----	13			13	SPACE
SPACE	6			6	0	----	14			14	SPACE
SPACE	7			7	0	----	15			15	SPACE
SPACE	8			8	0	----	16			16	SPACE
1540	1270	VA									
2810		Ttl VA									
12		AMPS									
12%		% USED									
CONTACTOR #	RATING	POLES	CKT#S	CONTROL							
C1	20	4	1,2,4,6	PHOTOCELL							

SERVICE PANEL No.: SP-08b		PHASE: 1 PHASE									
LOCATION:		WIRING METHOD: 120/240V 3-WIRE (1PH)									
VOLTAGE: 240		ENCLOSURE TYPE: NEMA 3R									
AMPACITY: 200		MAIN UTILITY CONNECTION: MAIN CIRCUIT BREAKER									
MIN. INT. RATING: 25kA		NEW/EXIST. SERVICE PED.: NEW									
BREAKER SPACE: 24		OWNERSHIP: NDOT									
<small>(MLO)=MAIN LUGS ONLY, (MCB)=MAIN CIRCUIT BREAKER, (N)=NEW, (E)=EXISTING, (PH)=PHASE, (X)=POLE BKR SPACE: ALL LIGHTING LOADS SHALL HAVE A 1.25 DEMAND FACTOR APPLIED</small>											
DESCRIPTION	CKT#	LOAD (VA)	BKR	BKR SPACE	PHASE		BKR SPACE	BKR	LOAD (VA)	CKT#	DESCRIPTION
					A	B					
MAIN (MCB)			200/2		----	----		200/2			MAIN (MCB)
SPACE	1			1	100	----	2	15	100	2	PHOTOELECTRIC RECEPTACLE
SPACE	3			3	180	----	4	20	180	4	GFCI RECEPTACLE
SPACE	5			5	0	----	6			6	SPACE
SPACE	7			7	0	----	8			8	SPACE
LIGHTING - SOUTHBOUND ONRAMP	9	900	20/2	9	900	----	10			10	SPACE
X	X	900	X	11	900	----	12			12	SPACE
LIGHTING - NORTHBOUND OFFRAMP	13	720	20/2	13	720	----	14			14	SPACE
X	X	720	X	15	720	----	16			16	SPACE
LIGHTING - SOUTHBOUND ONRAMP	17	900	20/2	17	900	----	18			18	SPACE
X	X	900	X	19	900	----	20			20	SPACE
LIGHTING - SOUTHBOUND OFFRAMP	21	900	20/2	21	900	----	22			22	SPACE
X	X	900	X	23	900	----	24			24	SPACE
3520	3600	VA									
7120		Ttl VA									
30		AMPS									
15%		% USED									
CONTACTOR #	RATING	POLES	CKT#S	CONTROL							
C1	20	8	9,13,17,21	PHOTOCELL							
C2	20	8		PHOTOCELL							

SERVICE PANEL No. SP-10a										PHASE: 1 PHASE	
LOCATION: VIRGINIA ST/PANTHER VALLEY					WIRING METHOD: 120/240V 3-WIRE (1 PH)						
VOLTAGE: 240					ENCLOSURE TYPE: NEMA 3R						
AMPACITY: 200					MAIN UTILITY CONNECTION: MAIN CIRCUIT BREAKER						
MIN. INT. RATING: 25kA					NEW/EXIST. SERVICE PED: NEW						
BREAKER SPACE: 24					OWNERSHIP: NDOT						
(MLO)=MAIN LUGS ONLY, (MCB)=MAIN CIRCUIT BREAKER, (N)=NEW, (E)=EXISTING, (PH)=PHASE, (X)=POLE BKR SPACE: ALL LIGHTING LOADS SHALL HAVE A 1.25 DEMAND FACTOR APPLIED											
DESCRIPTION	CKT#	LOAD (VA)	BKR	BKR SPACE	PHASE		BKR SPACE	BKR	LOAD (VA)	CKT#	DESCRIPTION
MAIN (MCB)			200/2		----	----		200/2			MAIN (MCB)
SPACE	1			1	100	----	2	15	100	2	PHOTOELECTRIC RECEPTACLE
SPACE	3			3	----	180	4	20	180	4	GFCI RECEPTACLE
LIGHTING - VIRGINIA ST. SOUTHBOUND ONRAMP	5	1080	20/2	5	1380	----	6	20/2	300	6	LANDSCAPE LIGHTING
X	X	1080	X	7	----	1080	8	X		X	X
LIGHTING - NORTHBOUND OFFRAMP	9	900	20/2	9	1500	----	10	60/2	600	6	WRONG WAY DRIVER SYSTEM
X	X	900	X	11	----	900	12	X		X	X
LIGHTING - NORTHBOUND OFFRAMP SPLIT	13	1260	20/2	13	1560	----	14	20/2	300	14	LIGHTING - PANTHER VALLEY UNDERPASS SOUTH
X	X	1260	X	15	----	1560	16	X	300	X	X
LIGHTING - VIRGINIA ST. SOUTHBOUND OFFRAMP	17	720	20	17	1020	----	18	20/2	300	18	LIGHTING - PANTHER VALLEY UNDERPASS NORTH
X	X	720	X	19	----	1020	20	X	300	X	X
SPACE	21			21	0	----	22			22	SPACE
SPACE	23			23	----	0	24			24	SPACE
		5560 4740		VA							
		10300		Ttl VA							
		43		AMPS							
		21%		% USED							
CONTACTOR #	RATING	POLES	CKT#S	CONTROL							
C1	20	8	1,5,9,13	PHOTOCELL							
C2	20	8	14,17,18	PHOTOCELL							
SPACE				NO CONTROLS - FOR FUTURE							
NOTES: INCLUDE ONE AUTO-TEST BYPASS SWITCH FOR PHOTOCELL "X" INDICATES SPACE TAKEN BY A 2 OR 3 POLE BREAKER											

SERVICE PANEL No. SP-15a										PHASE: 1 PHASE	
LOCATION: GOLDEN VALLEY RD NB OFFRAMP					WIRING METHOD: 120/240V 3-WIRE (1 PH)						
VOLTAGE: 240					ENCLOSURE TYPE: NEMA 3R						
AMPACITY: 200					MAIN UTILITY CONNECTION: MAIN CIRCUIT BREAKER						
MIN. INT. RATING: 25kA					NEW/EXIST. SERVICE PED: NEW						
BREAKER SPACE: 20					OWNERSHIP: NDOT						
(MLO)=MAIN LUGS ONLY, (MCB)=MAIN CIRCUIT BREAKER, (N)=NEW, (E)=EXISTING, (PH)=PHASE, (X)=POLE BKR SPACE: ALL LIGHTING LOADS SHALL HAVE A 1.25 DEMAND FACTOR APPLIED											
DESCRIPTION	CKT#	LOAD (VA)	BKR	BKR SPACE	PHASE		BKR SPACE	BKR	LOAD (VA)	CKT#	DESCRIPTION
MAIN (MCB)			200/2		----	----		200/2			MAIN (MCB)
UNDERPASS LIGHTING	1	750	20/2	1	750	----	2			2	SPACE
X	X	750	X	3	----	750	4			4	SPACE
GOLDEN VALLEY NB OFF-RAMP LIGHTING	5	630	20/2	5	2070	----	6	20	1440	6	ITS CAB
X	X	630	X	7	----	1230	8	20	600	8	WRONG WAY DRIVER SYSTEM
SPACE	9			9	0	----	10			10	
SPACE	11			11	----	100	12	15	100	12	PHOTOELECTRIC RECEPTACLE
"D" YELLOW	13	540	20	13	1440	----	14	40/2	900	14	"C" BLUE
SPACE	15			15	----	900	16	X	900	X	(LIGHTING)
"A" BRN	17	540	30/2	17	1440	----	18	40/2	900	18	"B" RED
(LIGHTING)	X	540	X	19	----	1440	20	X	900	X	(LIGHTING)
		5700 4420		VA							
		10120		Ttl VA							
		42		AMPS							
		21%		% USED							
CONTACTOR #	RATING	POLES	CKT#S	CONTROL							
C1	40	8	13,14,17,18	PHOTOCELL							
C2	20	8	1,5	PHOTOCELL							
SPACE				NO CONTROLS - FOR FUTURE							
NOTES: INCLUDE ONE AUTO-TEST BYPASS SWITCH FOR PHOTOCELL "X" INDICATES SPACE TAKEN BY A 2 OR 3 POLE BREAKER											

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	LT29



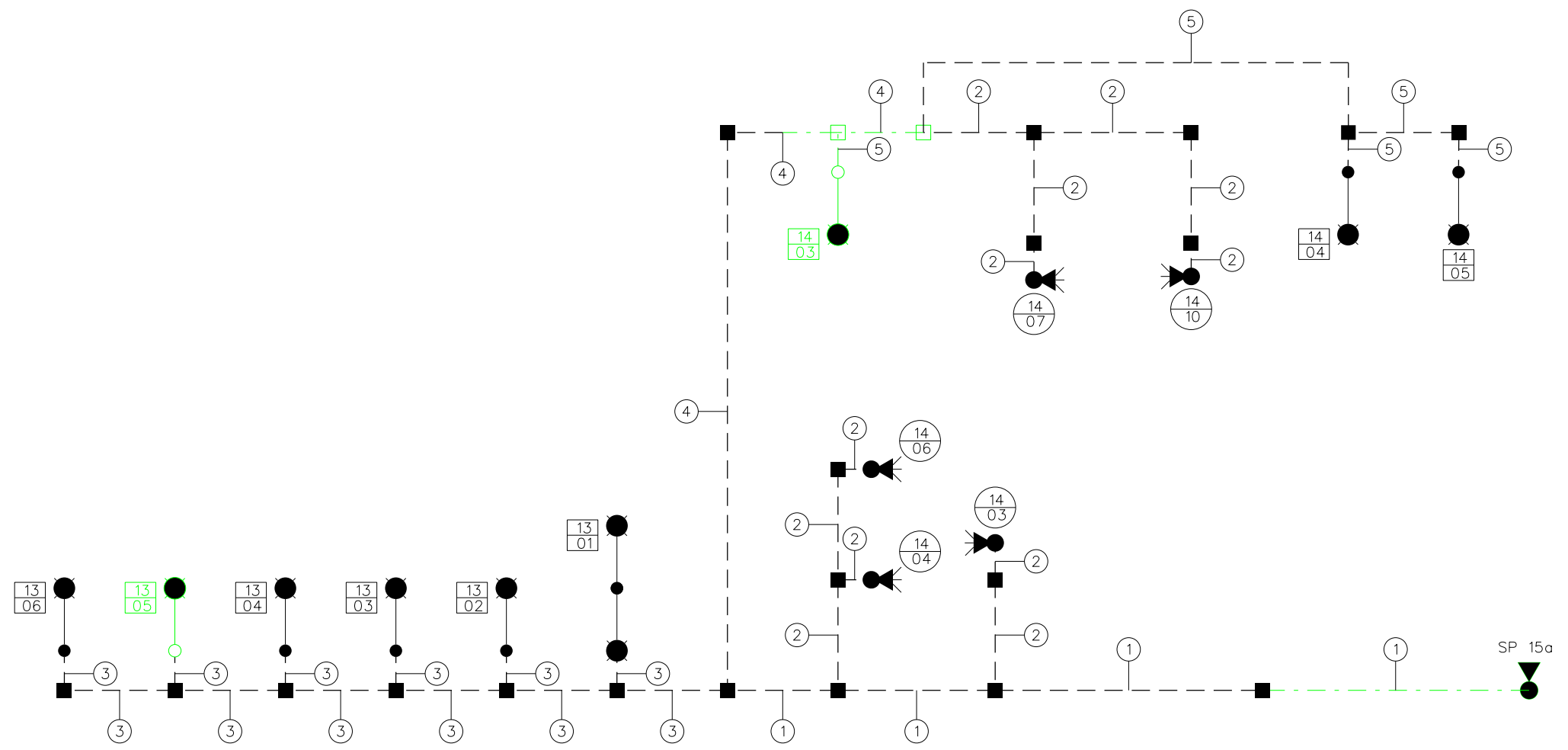
- ① CIRCUIT *9, 13, 17, 21
- ② CIRCUIT *9
- ③ CIRCUIT *13, 17, 21
- ④ CIRCUIT *13, 17
- ⑤ CIRCUIT *13
- ⑥ CIRCUIT *17
- ⑦ CIRCUIT *21

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

LIGHTING ONE-LINE
 DIAGRAM

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191 (104)	WASHOE	LT 31

- ① CIRCUIT #1, 5, 17
- ② CIRCUIT #1
- ③ CIRCUIT #5
- ④ CIRCUIT #1, 17
- ⑤ CIRCUIT #17

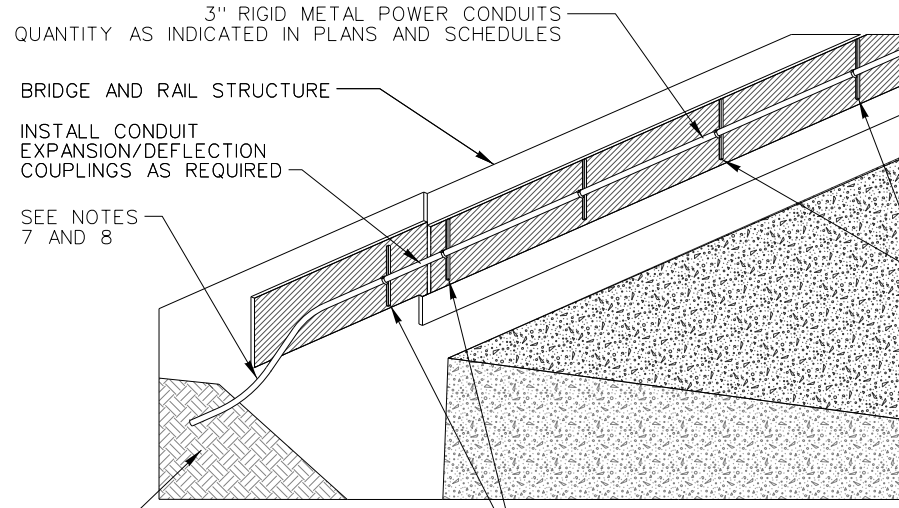


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
LIGHTING ONE-LINE
DIAGRAM

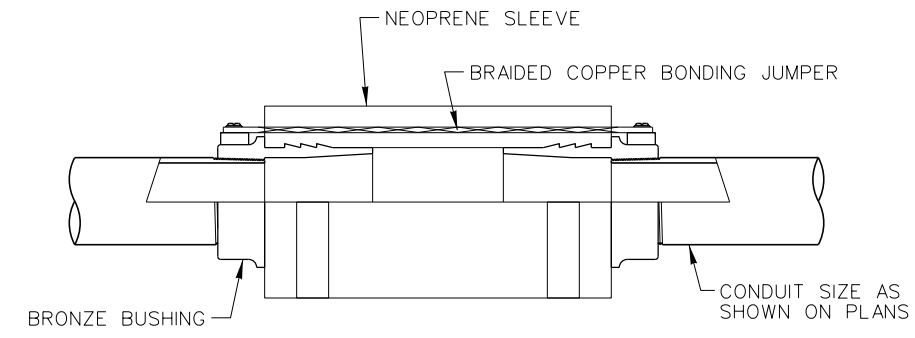
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT32

NOTES:

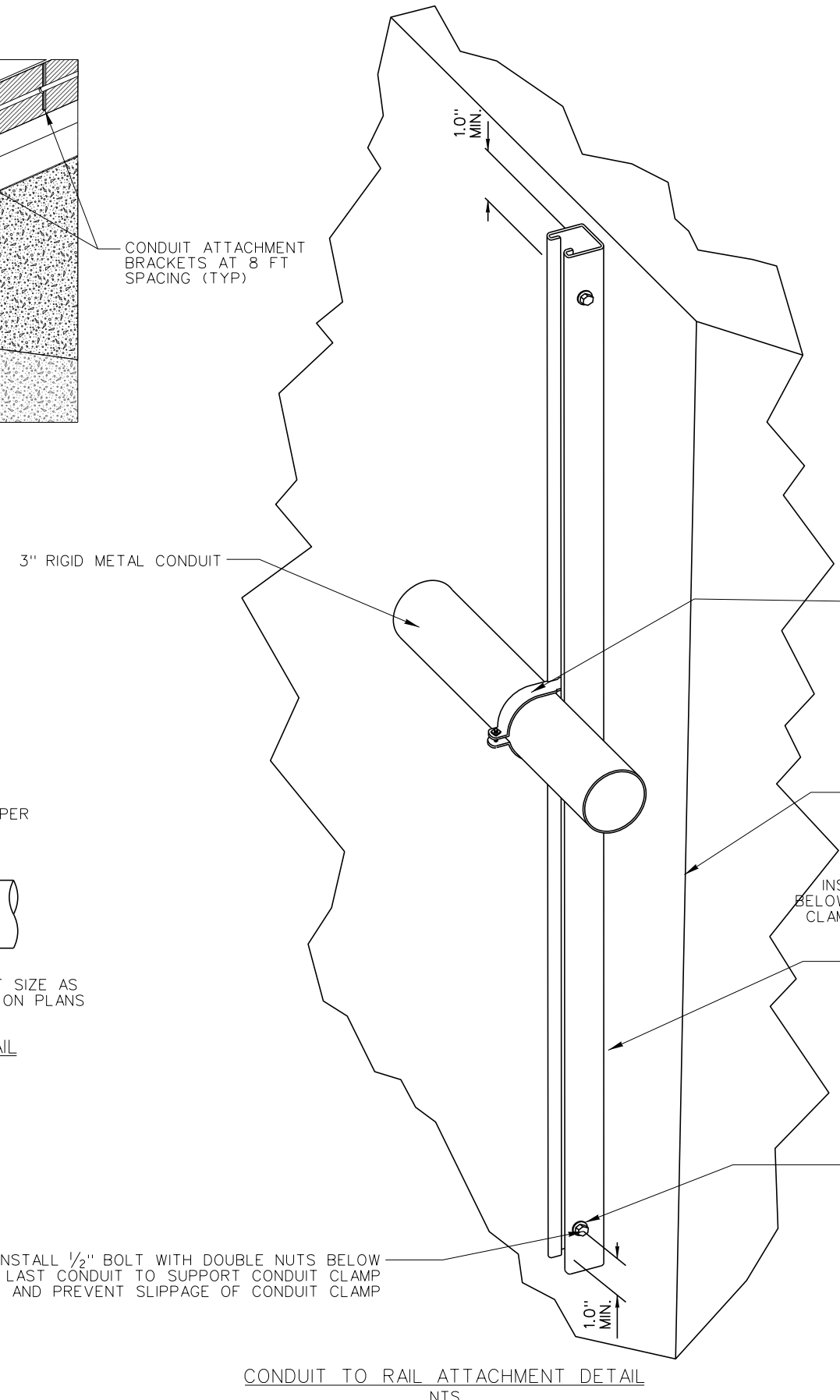
- EXPANSION/DEFLECTION COUPLINGS SHALL BE INSTALLED FOR ALL RIGID METAL CONDUITS AT ALL BRIDGE EXPANSION JOINTS OR AS DIRECTED BY THE RESIDENT ENGINEER. EXPANSION/DEFLECTION COUPLINGS SHALL MEET THE REQUIREMENTS OF THE NDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, OR AS REQUIRED TO MATCH EXPANSION JOINT MOVEMENT. THIS INCLUDES 4" RMC WITH FOUR HDPE CONDUITS INSIDE. HDPE CONDUIT DOES NOT REQUIRE EXPANSION/DEFLECTION COUPLINGS.
- CONDUIT ATTACHMENT BRACKET SPACING FOR RIGID METAL CONDUITS SHALL BE 8 FEET MAXIMUM OR LESS FOR DISTANCE BETWEEN RIGID METAL CONDUIT SUPPORTS.
- CONDUIT ATTACHMENT BRACKET IS REQUIRED WITHIN 3 1/2 FEET OF EACH SIDE OF JUNCTION BOXES AND CONDUIT BENDS, DEPENDING ON TRANSITION OF CONDUIT.
- CONDUIT ATTACHMENT BRACKET IS REQUIRED WITHIN 18 INCHES OF EACH SIDE OF ALL EXPANSION/DEFLECTION COUPLINGS.
- EACH RIGID METAL CONDUIT SHALL HAVE INDEPENDENT EXPANSION/DEFLECTION COUPLINGS AND CLAMPS.
- PULL TAPE SHALL BE INSTALLED INSIDE ALL EMPTY CONDUITS.
- CONDUIT BEND RADIUS SHALL BE 36" OR GREATER.
- FLEXIBLE BENDS AND CONDUIT SHALL NOT BE USED.



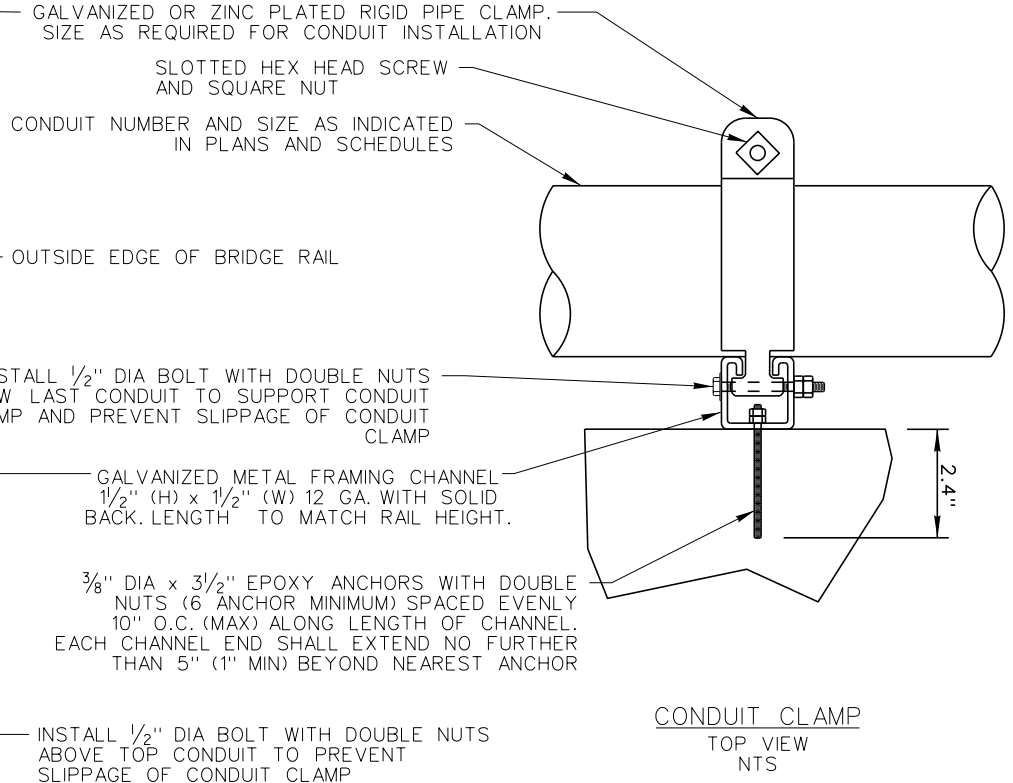
TYPICAL BRIDGE CONDUIT TRANSITION DETAIL
NTS



TYPICAL EXPANSION/DEFLECTION COUPLING DETAIL
NTS



CONDUIT TO RAIL ATTACHMENT DETAIL
NTS



CONDUIT CLAMP
TOP VIEW
NTS

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

BRIDGE CONDUIT
SURFACE MOUNT
DETAIL

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	LT33

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE NEVADA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION 2020 EDITION, STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION 2014 EDITION, THE NATIONAL ELECTRIC CODE AND APPLICABLE LOCAL CODES AND ORDINANCES.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING SUBSTRUCTURES, WHETHER SHOWN OR NOT, AND TO NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATION OF THEIR INSTALLATION AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL SUBSTRUCTURES FROM DAMAGE, AS WELL AS ANY OTHER INFRASTRUCTURE. THE EXPENSE TO REPAIR OR REPLACE SHALL BE ON THE CONTRACTOR.
3. UTILITIES ARE SHOWN FOR INFORMATION ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ANY WORK BY NOTIFYING THE CALL BEFORE YOU DIG SERVICE.
4. VERIFY THAT THE LOCATIONS OF ALL POLES AND PULL BOXES ARE NOT IN CONFLICT WITH NEW AND EXISTING UTILITIES AND DRAINAGE FACILITIES. FIELD VERIFY AND ADJUST IF NEEDED PER THE ENGINEER.
5. CONDUIT RUNS ON PLANS ARE SHOWN GRAPHICALLY, FIELD ADJUSTMENTS FOR OBSTACLES IS NORMAL, FIELD ADJUST IF NEEDED PER THE ENGINEER.
6. CONDUIT LINES SHOWN ARE FOR GRAPHICAL PURPOSES ONLY. CONDUIT RUNS SHALL RUN FROM A PULLBOX TO EITHER A PULLBOX, POLE, OR CABINET, IN A STRAIGHT LINE. ALL CONDUIT RUN ITEMS ARE QUANTIFIED AND SEPARATED BY SHEET NUMBER ON THE STRUCTURE LIST. CONDUIT RUN ITEMS INCLUDE CONDUIT, CONDUCTOR, AND ALL CABLES (E.G. FIBER OPTIC, POWER, SIGNAL).
7. ALL CONDUIT SHALL BE INSTALLED AT A MINIMUM DEPTH OF 36 INCHES. UNLESS OTHERWISE NOTED ON THE PLANS. CONTRACTOR SHALL INCREASE THE DEPTH OF THE PROPOSED CONDUIT TO AVOID EXISTING AND OTHER PROPOSED INFRASTRUCTURE WITHIN THIS PROJECT. EXACT CONDUIT ROUTE TO BE DETERMINED BY THE CONTRACTOR AND VERIFIED BY THE RESIDENT ENGINEER PRIOR TO TRENCHING TO ACCOUNT FOR FIELD CONDITIONS AND OTHER PLANNED IMPROVEMENTS.
8. SALVAGE ALL REUSABLE EQUIPMENT AND SEND TO WASHOE COUNTY. ENGINEER TO DETERMINE SALVAGEABLE MATERIALS.
9. ALL WORK SHALL BE DONE WITHIN N.D.O.T RIGHT-OF-WAY.
10. CONTRACTOR TO INSTALL DETECTABLE MULE TAPE IN ALL CONDUITS.
11. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED EMERGENCY RESPONDERS, PUBLIC ENTITIES, AND WASHOE COUNTY AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORKS.
12. EACH POLE SHALL BE INDIVIDUALLY GROUNDED, THEN BONDED TO GROUNDING CONDUCTOR BY AN APPROVED METHOD.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION.

CALL-BEFORE-YOU-OVERHEAD 1-702-593-6111
CALL-BEFORE-YOU-DIG 1-800-227-2600

CONDUIT NOTES:

1. CONDUIT RUNS AS SHOWN ON PLANS ARE APPROXIMATE. CONDUIT RUNS SHALL BE FROM PULLBOX TO PULLBOX, POLE, OR DEVICE IN A STRAIGHT LINE OR ALIGNED WITH ROADWAY GEOMETRY; ADJUST AS NECESSARY TO AVOID EXISTING UTILITIES, TERRAIN FEATURES, AND OTHER OBSTACLES.
2. EXACT CONDUIT ROUTE TO BE DETERMINED BY THE CONTRACTOR AND VERIFIED BY THE RESIDENT ENGINEER PRIOR TO TRENCHING TO ACCOUNT FOR FIELD CONDITIONS.
3. CONDUIT RUN DESIGNATIONS ARE BASED ON SHEET NUMBER. ANY CONDUIT RUN PASSING THROUGH MULTIPLE PAGES WILL HAVE ALL QUANTITIES SHOWN ONLY ON THE SHEET WHERE THAT RUN BEGINS. CONDUIT RUN ITEMS INCLUDE CONDUIT, MULTIDUCT CONDUIT, CONDUCTOR, AND ALL OTHER CABLES.
4. THE CONTRACTOR SHALL REPAIR IN KIND ALL SURFACE MATERIALS THAT ARE DISTURBED BY TRENCHING, EXCAVATION, BACKFILLING, AND SIMILAR OPERATIONS. THIS SHALL INCLUDE BUT IS NOT LIMITED TO THE REPLACEMENT OF PAVEMENT, SIDEWALK, CURB AND GUTTER, FENCING, HYDRAULIC FEATURES, AND OTHER UTILITIES.
5. ALL CONDUIT PLACED IN BRIDGE RAIL SHALL INCLUDE EXPANSION COUPLINGS AS NEEDED PER NEW BRIDGE STRUCTURE.
6. SEAL ALL CONDUIT ENDS WITH AN APPROVED DUCT SEALING COMPOUND (NO DIRECT PAYMENT).

LUMINAIRE NOTES:

1. LUMINAIRES SHALL BE CONTROLLED FROM THE PHOTOCELL LOCATED IN THE SERVICE PEDESTAL UNLESS OTHERWISE NOTED.

POLE NOTES:

1. ADJUST THE POLE LOCATIONS IN THE FIELD AS REQUIRED AND DIRECTED BY THE ENGINEER.

PULL BOX NOTES:

1. ADJUST PULL BOXES IN THE FIELD AS REQUIRED, DIRECTED BY THE ENGINEER.
2. PROVIDE TRAFFIC RATED PULLBOXES (HS20 RATED).
3. ALL METAL PULL BOX LIDS SHALL BE GROUNDED. INSTALL A STRANDED #4 (GREEN 7-STRAND) THW WIRE 8- FEET IN LENGTH FROM THE LID TO THE BONDING GROUND. FASTEN THE #4 CONDUCTOR TO THE LID BY CAD WELDING. ALL CONDUITS SHALL HAVE A MINIMUM OF 6-INCHES OF CLEARANCE FROM THE TOP OF THE CONDUIT TO THE LID.

SERVICE PEDESTAL NOTES:

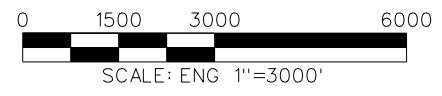
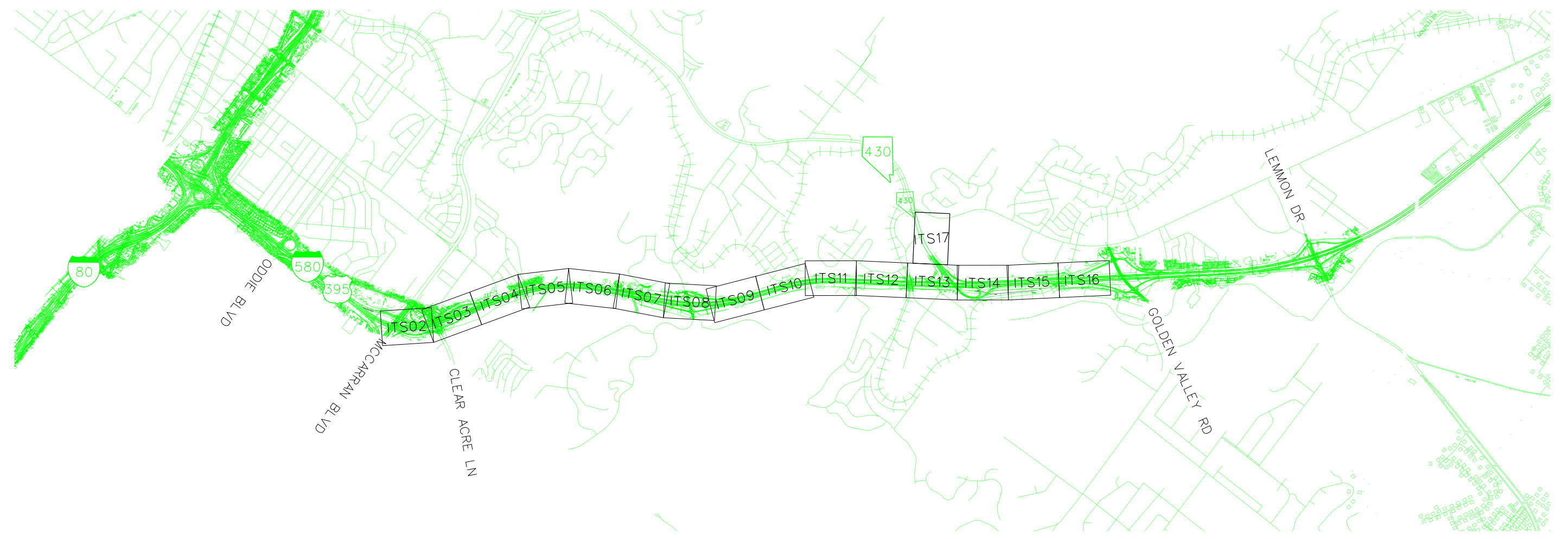
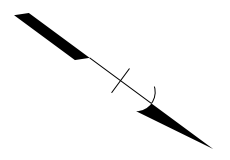
1. INSTALL A NEW PEDESTAL FOR UNDERGROUND ELECTRICAL SERVICE AS INDICATED ON THE SIGNAL PLANS.
2. ADJUST THE EXACT LOCATION IN THE FIELD AS REQUIRED AND APPROVED.
3. INSTALL AS DESCRIBED IN THE PANEL SCHEDULES. MEET THE UTILITY COMPANY'S REQUIREMENTS FOR THE INSTALLATION. THE INSTALLATION OF THE PEDESTAL AND ANY OTHER MISCELLANEOUS HARDWARE SHALL BE PAID FOR UNDER BID ITEM 623 1620, "UNDERGROUND ELECTRICAL SERVICE", EACH.

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

LIGHTING
GENERAL NOTES

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS01

ITS PLANS



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLANS / KEY MAP

	DESIGN DIVISION		
	DESIGNER	LAURA VARGO	PHONE (775) 888-7665
	SENIOR DESIGNER	ERIC MACGILL	PHONE (775) 888-7561
	PROJECT MANAGER	ROBERT VROOMAN	PHONE (775) 888-7317

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS01A

LIGHTING CONSTRUCTION NOTES:

- ① REMOVE EXISTING LUMINAIRE HEAD. SHALL BE PAID FOR UNDER BID ITEM 202 0895, "REMOVE LIGHTING FIXTURES", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ② INTENTIONALLY REMOVED FROM THE PLANS.
- ③ INSTALL NEW LIGHT POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0570, "STEEL POLE, TYPE 7", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ④ REMOVE EXISTING LIGHTING CONDUCTOR AND INSTALL NEW CONDUCTOR IN EXISTING CONDUIT. SEE LIGHTING CONDUIT SCHEDULES FOR MORE DETAILS.
- ⑤ INSTALL 200 AMP METERED SERVICE (SINGLE PHASE, 3-WIRE). SHALL BE PAID FOR UNDER BID ITEM 623 1620, "UNDERGROUND ELECTRICAL SERVICE", EACH.
- ⑥ REMOVE EXISTING SERVICE PEDESTAL AND INSTALL NEW SERVICE PEDESTAL. SHALL BE PAID FOR UNDER BID ITEMS 623 1630, "REMOVE EXISTING ELECTRICAL SERVICE", EACH, AND 623 1620, "UNDERGROUND ELECTRICAL SERVICE", EACH.
- ⑦ REMOVE EXISTING PULL BOX. SHALL BE PAID FOR UNDER BID ITEM 202 0925, "REMOVAL OF PULL BOX", EACH.
- ⑧ SPLICE NEW LUMINAIRE CONDUCTORS TO EXISTING LIGHTING CIRCUIT. SEE LIGHTING CONDUIT SCHEDULES FOR MORE DETAILS. NO DIRECT PAYMENT.
- ⑨ INTERCEPT EXISTING CONDUIT AND CONNECT TO NEW CONDUIT RUN. SPLICE NEW CONDUCTORS TO EXISTING LIGHTING CIRCUIT USING AN APPROVED METHOD. NO DIRECT PAYMENT. SEE LIGHTING CONDUIT SCHEDULES FOR MORE DETAILS.
- ⑩ CONDUCTORS FOR LANDSCAPE ARCHITECTURE LIGHTING CIRCUIT SHALL BE SAFED OFF IN THIS PULL BOX PENDING CONNECTION TO LANDSCAPE ARCHITECTURE LIGHTING.
- ⑪ INSTALL TYPE C UNDERPASS LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0355, "UNDERPASS LUMINAIRE, (TYPE C)", EACH.
- ⑫ INSTALL BRIDGE RAIL JUNCTION BOX PER 2020 STANDARD PLAN DETAIL TG-9. SHALL BE PAID FOR UNDER BID ITEM 623 0250, "JUNCTION BOX (A)", EACH.
- ⑬ INSTALL NEW LIGHT POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0585, "STEEL POLE, TYPE 14 (TWIN ARMS)", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ⑭ INSTALL NEW BRIDGE RAIL LIGHT POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0580, "STEEL POLE, TYPE 7 (MODIFIED)", EACH. INSTALL NEW TYPE B LED LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 623 0268, "LUMINAIRE, TYPE B", EACH.
- ⑮ NEW BRIDGE RAIL JUNCTION BOX SHALL CONNECT TO EXISTING LIGHT POLE CONDUIT FROM BLISTER. NO DIRECT PAYMENT.

LIGHTING CONSTRUCTION NOTES:

- R1 REMOVE EXISTING TRANSFORMER & TRANSFORMER CABINET. SHALL BE PAID FOR UNDER BID ITEM 623 1365, "REMOVAL OF EXISTING ELECTRICAL SYSTEM", LS. REMOVE CONDUCTOR FOR REMOVED SIGN LIGHTING BACK TO SERVICE PEDESTAL. SHALL BE PAID FOR UNDER 623 2660, "REMOVAL OF EXISTING CABLE", LINFT.
- R2 REMOVE EXISTING ROADWAY LIGHT POLE AND LUMINAIRE. SHALL BE PAID FOR UNDER BID ITEM 202 0885, "REMOVAL OF LIGHT POLE", EACH.
- RR1 DISCONNECT EXISTING LIGHTING CONDUCTORS AND PULL BACK TO ADJACENT PULL BOX. REMOVE AND RESET LIGHT POLE ONTO NEW FOUNDATION. PULL EXISTING CONDUCTORS TO NEW POLE LOCATION AND SPLICE TO NEW CONDUCTORS. WORK SHALL BE PAID FOR UNDER BID ITEM 623 1445, "REMOVE AND RESET LIGHT POLE", EACH. SEE SCHEDULES FOR DETALS, INCLUDING NEW POLE LOCATIONS

ITS CONSTRUCTION NOTES:

SEE NEXT SHEET.

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION
NOTES

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS01B

LIGHTING CONSTRUCTION NOTES:

SEE PREVIOUS SHEET.

ITS CONSTRUCTION NOTES:

- (21) INSTALL NEW 80' ITS POLE WITH PTZ CCTV CAMERA AND LOWERING DEVICE. SHALL BE PAID FOR UNDER BID ITEMS 623 0658, "ITS POLE (80 FOOT)", EACH, 623 3030, "CCTV CAMERA (PTZ)", EACH, AND 623 2950, "CCTV LOWERING DEVICE (HIGH MAST)", EACH.
- (22) INSTALL NEW 30' ITS POLE WITH PTZ CCTV CAMERA. SHALL BE PAID FOR UNDER BID ITEMS 623 0653, "ITS POLE (30 FOOT)", EACH, 623 3030, "CCTV CAMERA (PTZ)", EACH.
- (23) INSTALL NEW 30' ITS POLE WITH RADAR DETECTOR SYSTEM. SHALL BE PAID FOR UNDER BID ITEMS 623 0921, "RADAR DETECTOR SYSTEM", EACH AND 623 0653, "ITS POLE (30 FOOT)", EACH. SEE SCHEDULES FOR MORE INFORMATION.
- (24) REPLACE EMBEDDED SURFACE ROAD TEMPERATURE SENSOR AND WIRING AS INDICATED IN NDOT STANDARD PLANS AND PLAN SCHEDULES. SHALL BE PAID FOR UNDER BID ITEM 623 0870, "SPECIAL DETECTOR SURFACE SENSOR", EACH. CONNECTION OF NEW WIRING AND SENSOR TO EXISTING RWIS IS INCLUDED IN THE BID ITEM.
- (25) INSTALL NEW GROUND MOUNTED ITS CABINET. SHALL BE PAID FOR UNDER BID ITEM 623 1061, "COMMUNICATION CABINET", EACH.
- (26) INSTALL NEW SIGNAL POLE, SIGNAL HEADS, AND MISCELLANEOUS SIGNAL EQUIPMENT PER SCHEDULES FOR A COMPLETE RAMP METERING SYSTEM. SCHEDULES AND STRUCTURE LIST PROVIDE ADDITIONAL INFORMATION, INCLUDING BID ITEMS.
- (27) INSTALL NEW GROUND-MOUNTED ITS CABINET AND 2070 TRAFFIC ACTUATED CONTROLLER IN IT. SHALL BE PAID FOR UNDER BID ITEM 623 1061, "COMMUNICATION CABINET", EACH AND 623 0955, "TRAFFIC ACTUATED CONTROLLER", EACH RESPECTIVELY. MAKE ALL CONNECTIONS AND COMPLETE ALL WORK NECESSARY FOR A COMPLETE AND WORKING RAMP METERING SYSTEM.
- (28) REMOVE EXISTING RADAR DETECTOR AND SALVAGE. INSTALL NEW RADAR DETECTOR ON EXISTING POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0921, "RADAR DETECTOR SYSTEM", EACH.
- (29) DISCONNECT EXISTING DETECTOR CABLE FROM EXISTING RADAR DETECTOR AND PULL DETECTOR CABLE TO PULL BOX 03e. PULL EXISTING DETECTOR CABLE THROUGH NEW CONDUIT AND RECONNECT TO EXISTING RADAR DETECTOR. NO DIRECT PAYMENT.
- (30) PERFORM FIBER OPTIC SPLICE. SEE SPLICING DIAGRAMS FOR CABLE AND SPLICING INFORMATION. SHALL BE PAID FOR UNDER BID ITEM 623 2915, "INTEGRATED FIBER OPTIC SPLICE/TERMINATION UNIT (UNDERGROUND)", EACH.
- (31) PERFORM FIBER OPTIC SPLICE IN EXISTING SPLICE ENCLOSURE. SEE SPLICING DIAGRAMS FOR CABLE AND SPLICING INFORMATION. SHALL BE PAID FOR UNDER BID ITEM 623 2915, "INTEGRATED FIBER OPTIC SPLICE/TERMINATION UNIT (UNDERGROUND)", EACH.

ITS CONSTRUCTION NOTES:

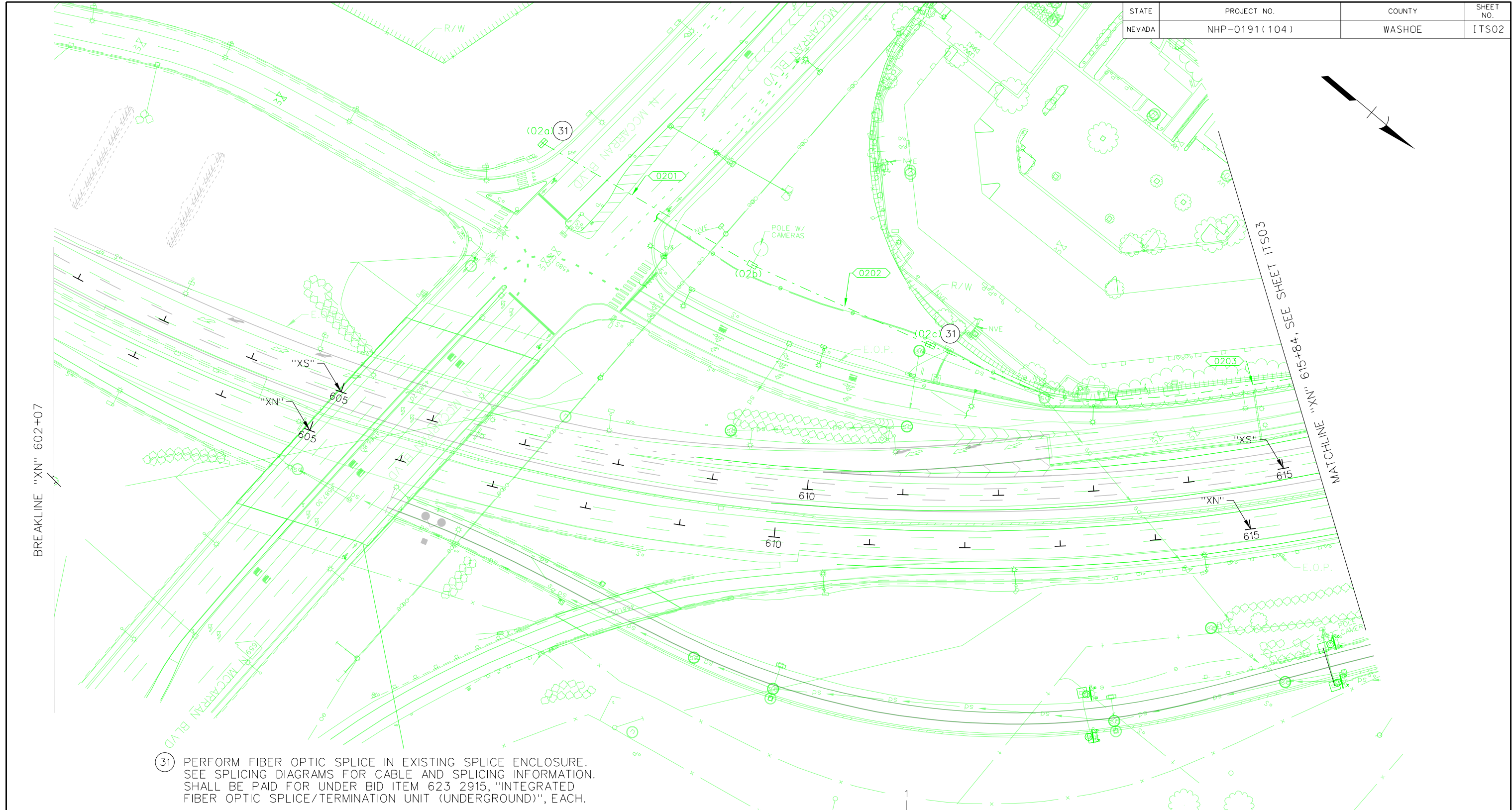
- (32) INSTALL NEW 3 KVA, 120V TO 600V, SINGLE PHASE, STEP UP TRANSFORMER. SHALL BE PAID FOR UNDER BID ITEM 623 1722, "TRANSFORMER (3 KVA)", EACH.
- (33) INSTALL NEW 3 KVA, 600V TO 120V, SINGLE PHASE, STEP DOWN TRANSFORMER. SHALL BE PAID FOR UNDER BID ITEM 623 1722, "TRANSFORMER (3 KVA)", EACH.
- (34) INSTALL NEW CONDUIT INTO EXISTING PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.
- (35) RECONFIGURE EXISTING RADAR DETECTOR SYSTEM TO NEW ROADWAY ALIGNMENT. SHALL BE PAID FOR UNDER BID ITEM 623 0856, "MODIFY DETECTOR", EACH.
- (36) INSTALL NEW CONDUCTORS INTO NEW BREAKER IN EXISTING SERVICE PEDESTAL. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS. SHALL BE PAID FOR UNDER BID ITEM 623 1635, "MODIFY ELECTRICAL SERVICE", EACH.
- (37) REMOVE EXISTING PULL BOX. SHALL BE PAID FOR UNDER BID ITEM 202 0925, "REMOVAL OF PULL BOX", EACH. INSTALL NEW PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.
- (38) INSTALL NEW CONDUIT INTO EXISTING PULL BOX. CONNECT EXISTING CONDUCTORS WITH NEW CONDUCTORS THAT ARE RUNNING IN CONDUIT RUN 1319.
- (39) INSTALL 30-FOOT STEEL POST WITH 1W1C FLASHING 12" AMBER BEACONS AND "RAMP METERED WHEN FLASHING" SIGN. SHALL BE PAID FOR UNDER BID ITEMS 623 2225, "STEEL POST 30-FOOT", EACH, 623 2550, "SIGNAL HEAD 1W1C, POST TOP", EACH, AND 623 2680, "TRAFFIC SIGNAL SIGNS", EACH.
- (40) INSTALL WRONG WAY DRIVER WARNING SYSTEM IN EXISTING COMMUNICATION CABINET. SHALL BE PAID FOR UNDER BID ITEM 623 3050, "RECTANGULAR RAPID FLASHING BEACON CONTROLLER (TYPE 2)", EACH.
- (41) INSTALL (2) NEW RECTANGULAR RAPID FLASHING BEACONS (RRFB) ON NEW 30' STEEL POST. SHALL BE PAID FOR UNDER BID ITEM 623 3040, "RECTANGULAR RAPID FLASHING BEACON", EACH, AND BID ITEM 623 2225, "STEEL POST, 30-FOOT", EACH.
- (42) INSTALL (2) FLIR DETECTORS, INCOMING AND OUTGOING, ON EXISTING POLE. SHALL BE PAID FOR UNDER BID ITEM 623 3035, "CCTV CAMERA (DETECTABLE)", EACH. SEE POLE SCHEDULE AND SPECIAL DETAILS FOR FURTHER INFORMATION.
- (43) INSTALL (2) CCTV CAMERAS. INCOMING AND OUTGOING, AND (2) ILLUMINATORS, INCOMING AND OUTGOING, ON EXISTING POLE. SHALL BE PAID FOR UNDER BID ITEM 623 1264, "CCTV CAMERA (FIXED)", EACH. SEE POLE SCHEDULE AND SPECIAL DETAILS FOR FURTHER INFORMATION.

- (R3) REMOVE EXISTING FIBER OPTIC CABLE AND/OR EXISTING CONDUCTORS FROM EXISTING CONDUIT. SHALL BE PAID FOR UNDER BID ITEM 623 1370, "REMOVAL OF CONDUIT AND CONDUCTORS", LS.
- (R4) REMOVE EXISTING RWIS POLE AND EQUIPMENT AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1375, "REMOVAL OF POLE", EACH. REMOVE EXISTING RWIS CABINET AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1320, "REMOVAL OF TRAFFIC SIGNAL CONTROLLER CABINET", EACH.
- (R5) REMOVE EXISTING POLE MOUNTED RADAR DETECTOR SYSTEM AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1405, "REMOVE POLE MOUNTED CONTROLLER", EACH.
- (R6) REMOVE EXISTING ITS POLE, CCTV, EQUIPMENT, AND TRANSFORMER AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1375, "REMOVAL OF POLE", EACH. REMOVE EXISTING CABINET AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1320, "REMOVAL OF TRAFFIC SIGNAL CONTROLLER CABINET", EACH.
- (R7) REMOVE EXISTING PULL BOX. SHALL BE PAID FOR UNDER BID ITEM 202 0925, "REMOVAL OF PULL BOX", EACH.
- (R8) REMOVE EXISTING WRONG WAY DRIVER SYSTEM FROM COMMUNICATION CABINET AND EXISTING POLE. SHALL BE PAID FOR UNDER BID ITEM 623 1530, "REMOVE AND RESET VIDEO DETECTION SYSTEM", EACH.
- (RR2) REMOVE AND RESET EXISTING POLE, PANEL AND FLASHING BEACON. SHALL BE PAID FOR UNDER BID ITEM 623 1441, "REMOVE AND RESET STEEL POLE", EACH. SEE ITS SPECIAL DETAILS FOR FURTHER INFORMATION.

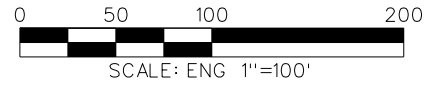
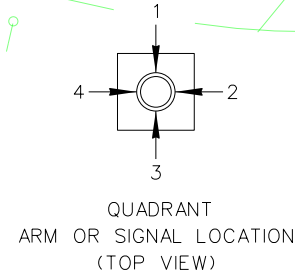
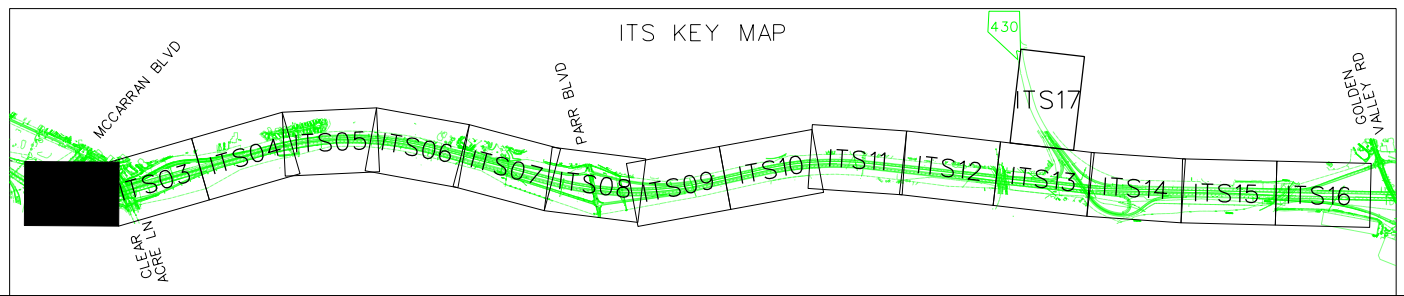
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION
NOTES

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS02



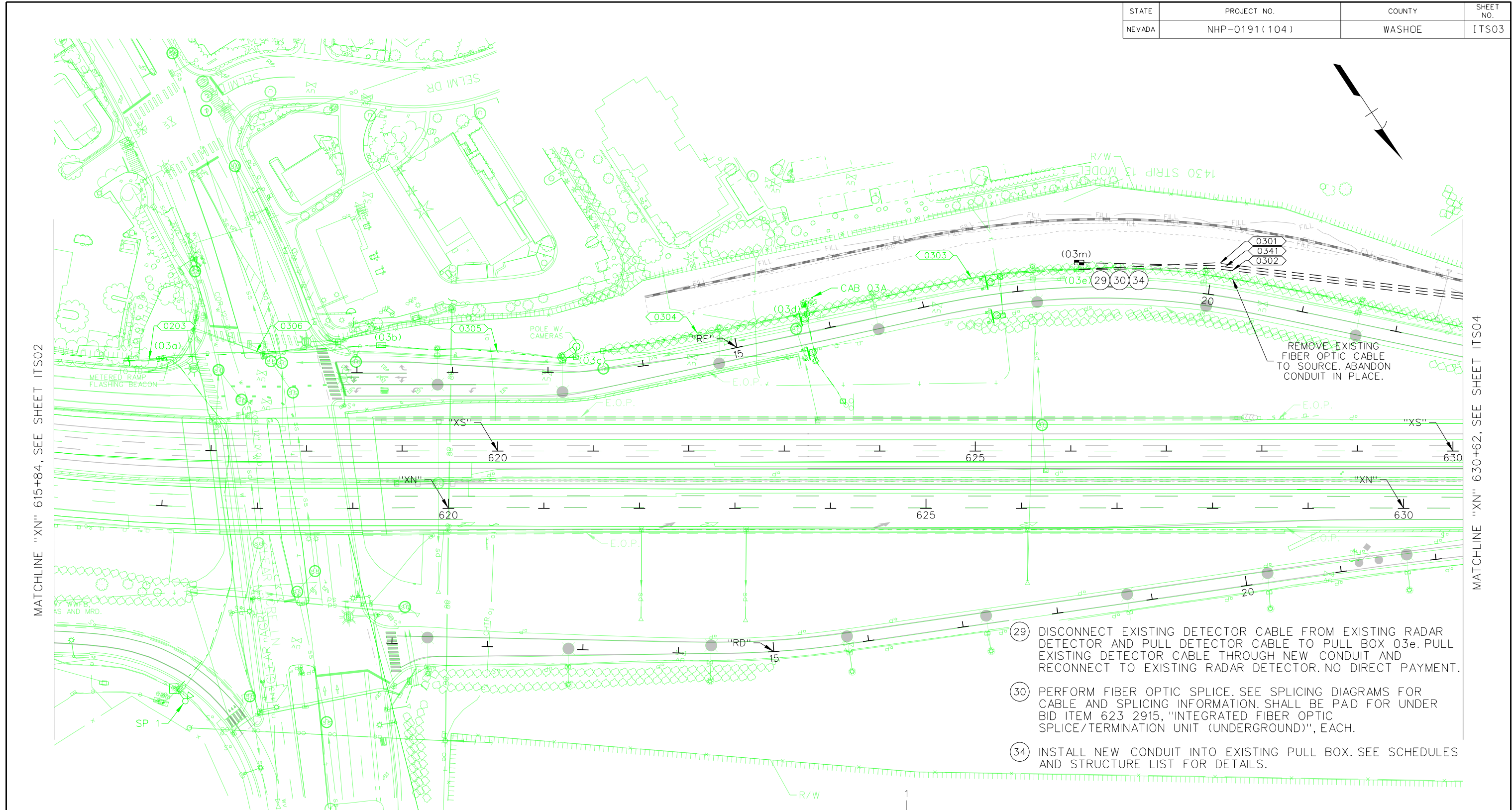
31 PERFORM FIBER OPTIC SPLICE IN EXISTING SPLICE ENCLOSURE. SEE SPLICING DIAGRAMS FOR CABLE AND SPLICING INFORMATION. SHALL BE PAID FOR UNDER BID ITEM 623 2915, "INTEGRATED FIBER OPTIC SPLICE/TERMINATION UNIT (UNDERGROUND)", EACH.



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLAN
"XN" 602+07 TO
"XN" 615+84

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS03

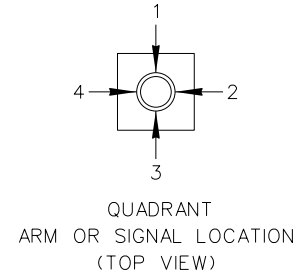
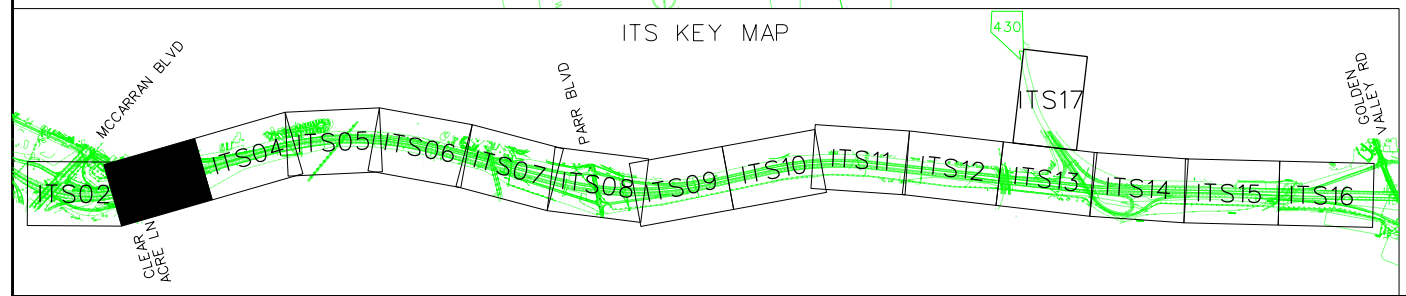


MATCHLINE "XN" 615+84, SEE SHEET ITS02

MATCHLINE "XN" 630+62, SEE SHEET ITS04

REMOVE EXISTING FIBER OPTIC CABLE TO SOURCE. ABANDON CONDUIT IN PLACE.

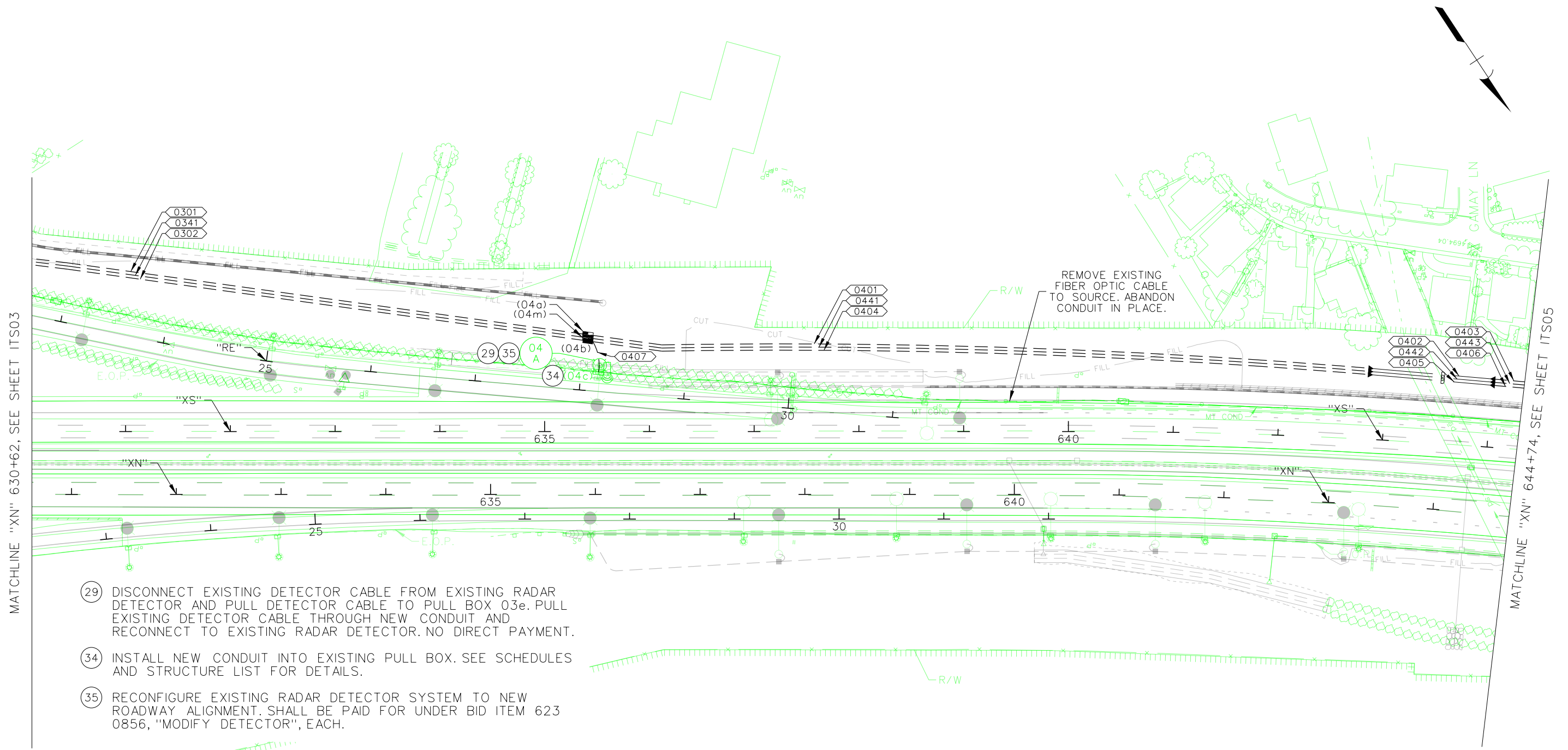
- 29 DISCONNECT EXISTING DETECTOR CABLE FROM EXISTING RADAR DETECTOR AND PULL DETECTOR CABLE TO PULL BOX 03e. PULL EXISTING DETECTOR CABLE THROUGH NEW CONDUIT AND RECONNECT TO EXISTING RADAR DETECTOR. NO DIRECT PAYMENT.
- 30 PERFORM FIBER OPTIC SPLICE. SEE SPLICING DIAGRAMS FOR CABLE AND SPLICING INFORMATION. SHALL BE PAID FOR UNDER BID ITEM 623 2915, "INTEGRATED FIBER OPTIC SPLICE/TERMINATION UNIT (UNDERGROUND)", EACH.
- 34 INSTALL NEW CONDUIT INTO EXISTING PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.



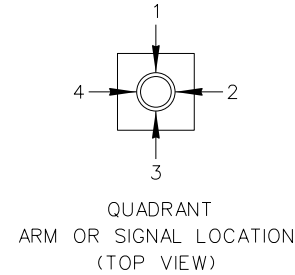
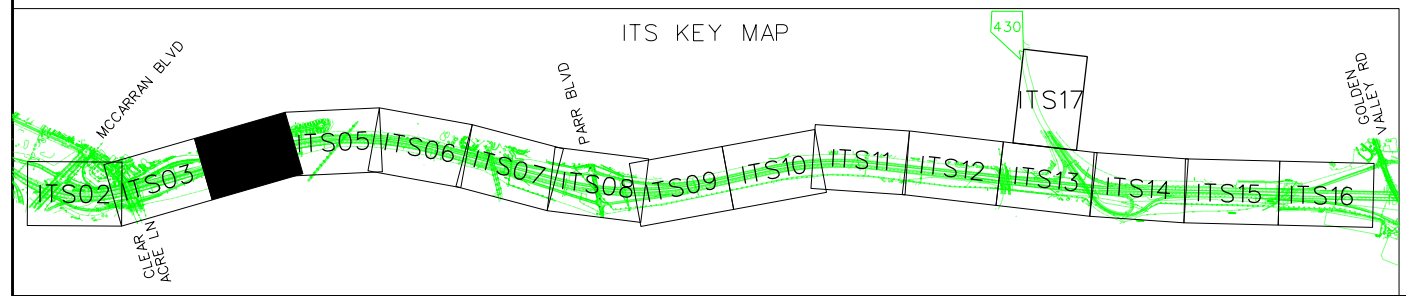
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLAN
"XN" 615+84 TO
"XN" 630+62

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS04



- 29 DISCONNECT EXISTING DETECTOR CABLE FROM EXISTING RADAR DETECTOR AND PULL DETECTOR CABLE TO PULL BOX 03e. PULL EXISTING DETECTOR CABLE THROUGH NEW CONDUIT AND RECONNECT TO EXISTING RADAR DETECTOR. NO DIRECT PAYMENT.
- 34 INSTALL NEW CONDUIT INTO EXISTING PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.
- 35 RECONFIGURE EXISTING RADAR DETECTOR SYSTEM TO NEW ROADWAY ALIGNMENT. SHALL BE PAID FOR UNDER BID ITEM 623 0856, "MODIFY DETECTOR", EACH.

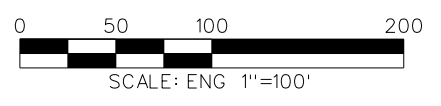
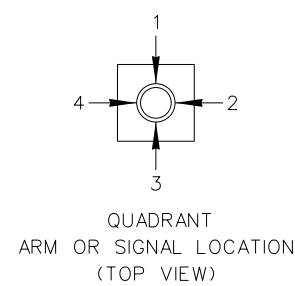
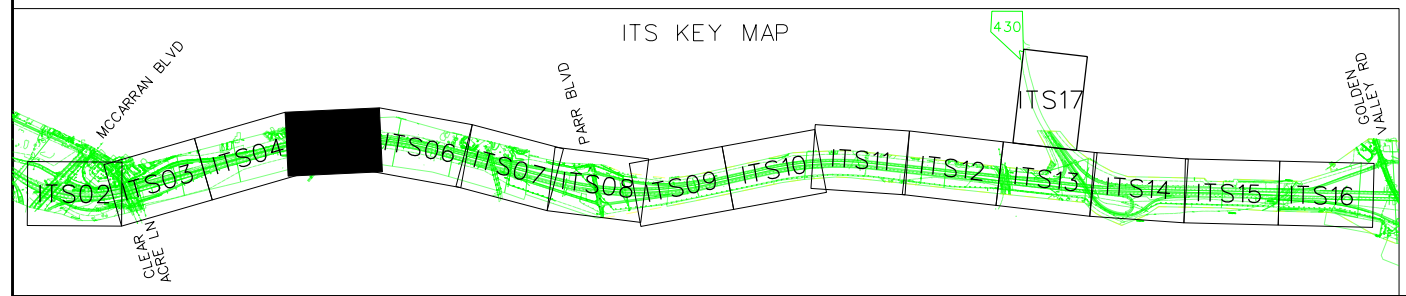
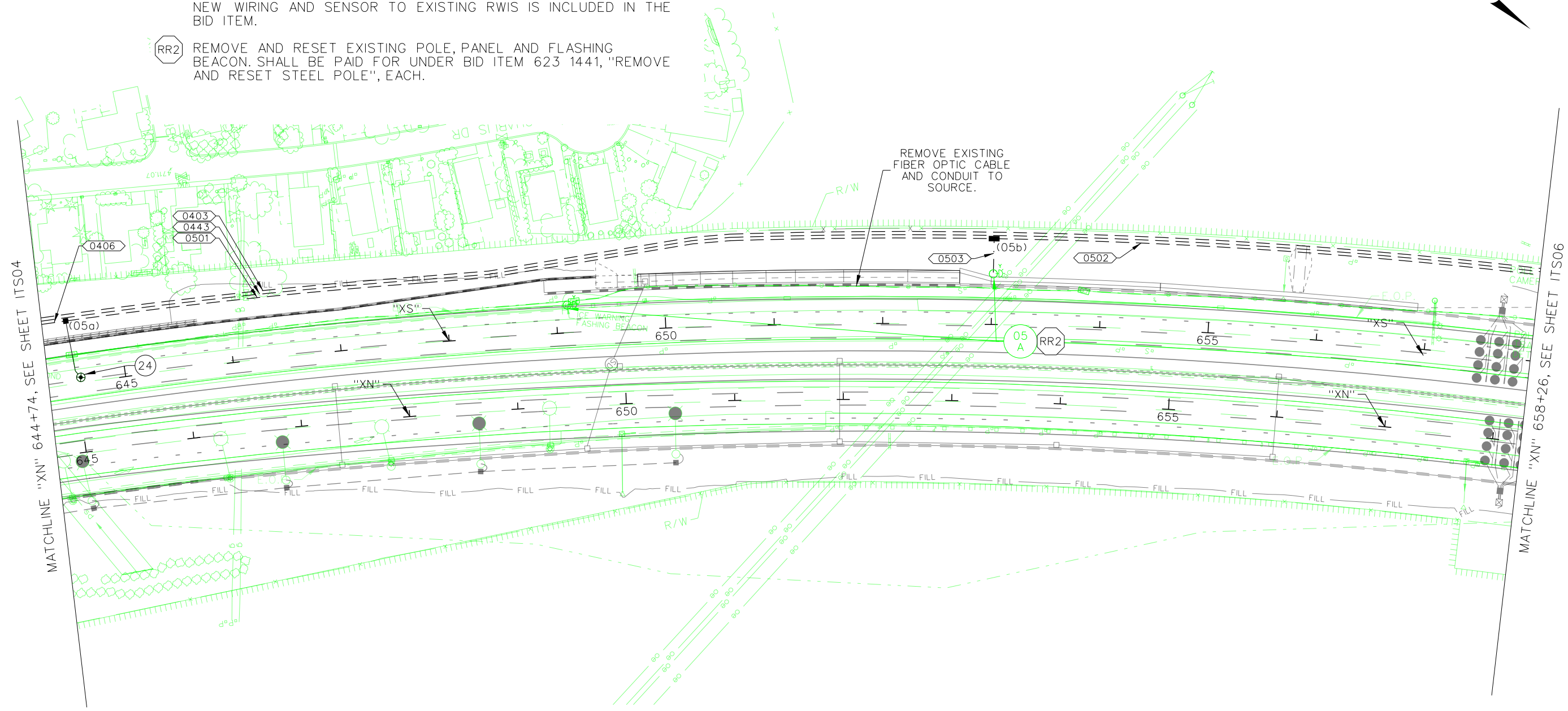
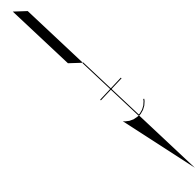


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLAN
"XN" 630+62 TO
"XN" 644+74

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS05

- (24) REPLACE EMBEDDED SURFACE ROAD TEMPERATURE SENSOR AND WIRING AS INDICATED IN NDOT STANDARD PLANS AND PLAN SCHEDULES. SHALL BE PAID FOR UNDER BID ITEM 623 0870, "SPECIAL DETECTOR SURFACE SENSOR", EACH. CONNECTION OF NEW WIRING AND SENSOR TO EXISTING RWIS IS INCLUDED IN THE BID ITEM.
- RR2 REMOVE AND RESET EXISTING POLE, PANEL AND FLASHING BEACON. SHALL BE PAID FOR UNDER BID ITEM 623 1441, "REMOVE AND RESET STEEL POLE", EACH.

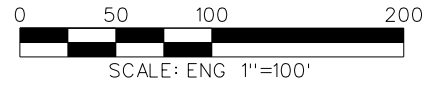
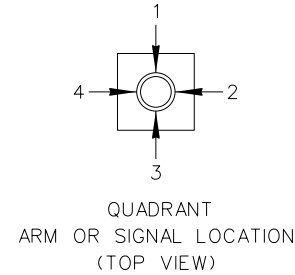
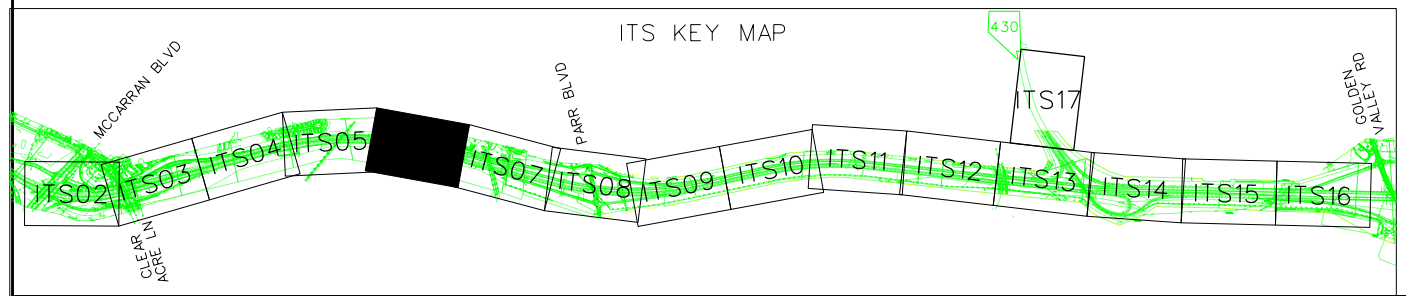
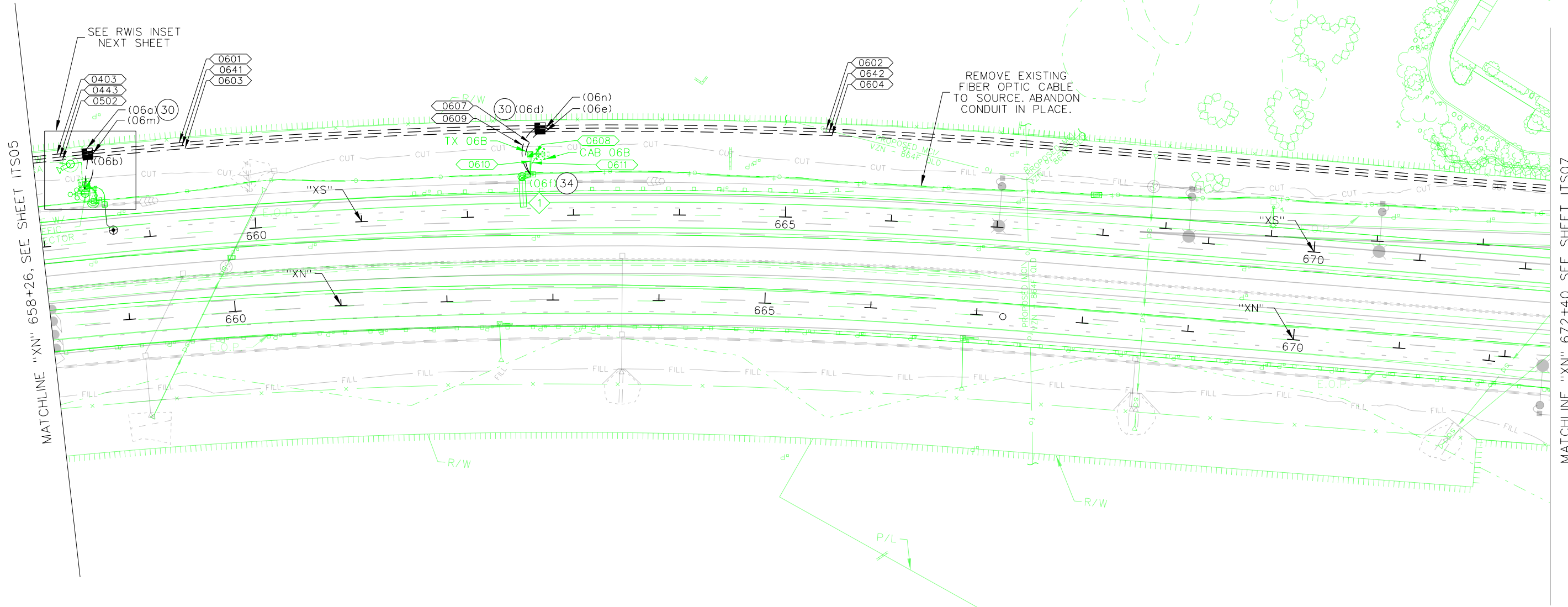
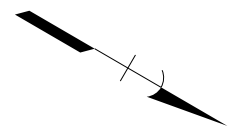


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLAN
"XN" 644+74 TO
"XN" 658+26

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS06

- 30 PERFORM FIBER OPTIC SPLICE. SEE SPLICING DIAGRAMS FOR CABLE AND SPLICING INFORMATION. SHALL BE PAID FOR UNDER BID ITEM 623 2915, "INTEGRATED FIBER OPTIC SPLICE/TERMINATION UNIT (UNDERGROUND)", EACH.
- 34 INSTALL NEW CONDUIT INTO EXISTING PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.

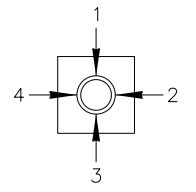
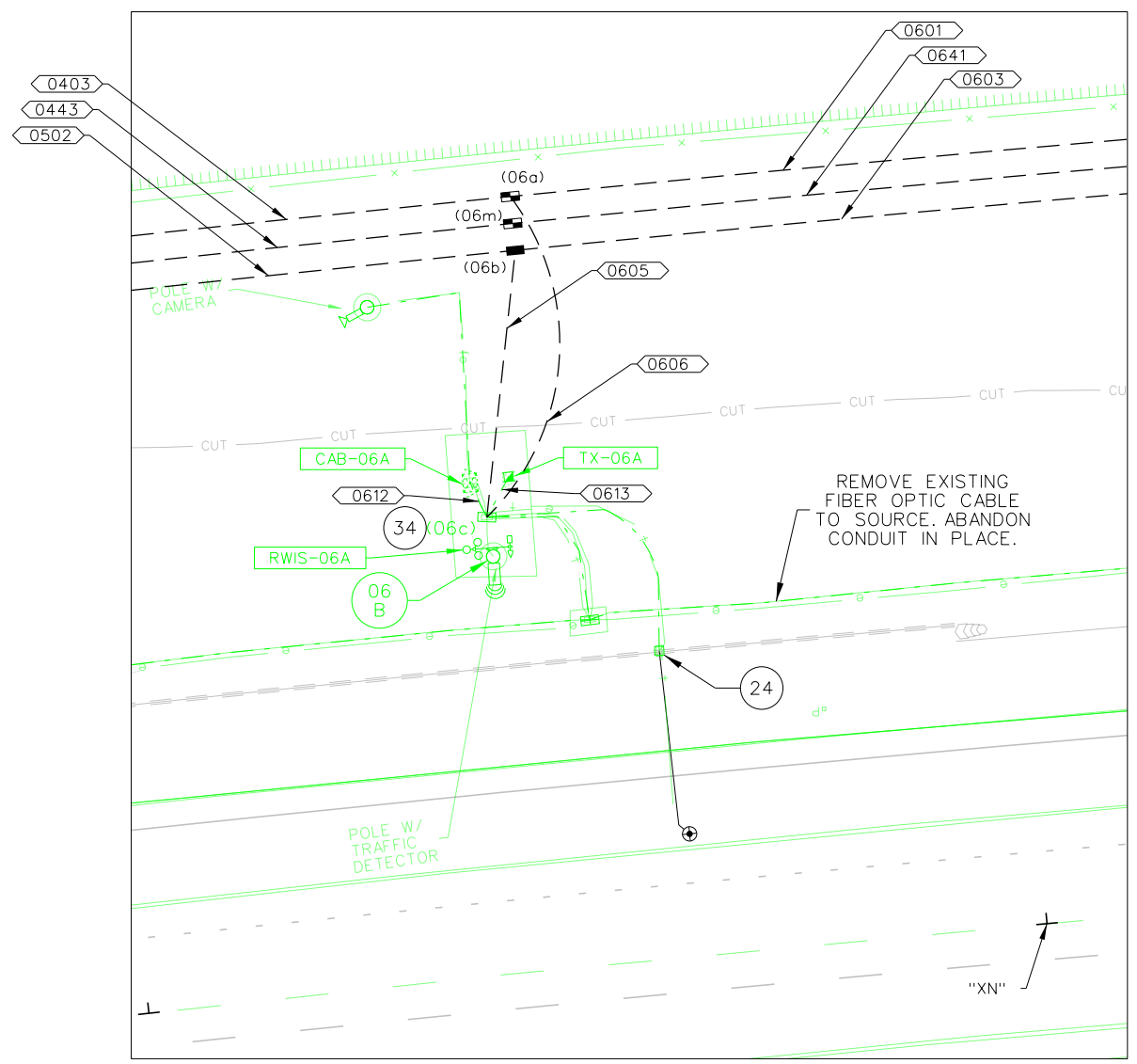
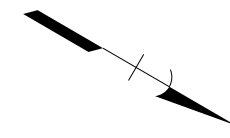


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

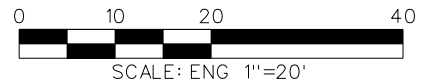
ITS PLAN
"XN" 658+26 TO
"XN" 672+40

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS06A

- 24 REPLACE EMBEDDED SURFACE ROAD TEMPERATURE SENSOR AND WIRING AS INDICATED IN NDOT STANDARD PLANS AND PLAN SCHEDULES. SHALL BE PAID FOR UNDER BID ITEM 623 0870, "SPECIAL DETECTOR SURFACE SENSOR", EACH CONNECTION OF NEW WIRING AND SENSOR TO EXISTING RWIS IS INCLUDED IN THE BID ITEM.
- 34 INSTALL NEW CONDUIT INTO EXISTING PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.



QUADRANT
ARM OR SIGNAL LOCATION
(TOP VIEW)

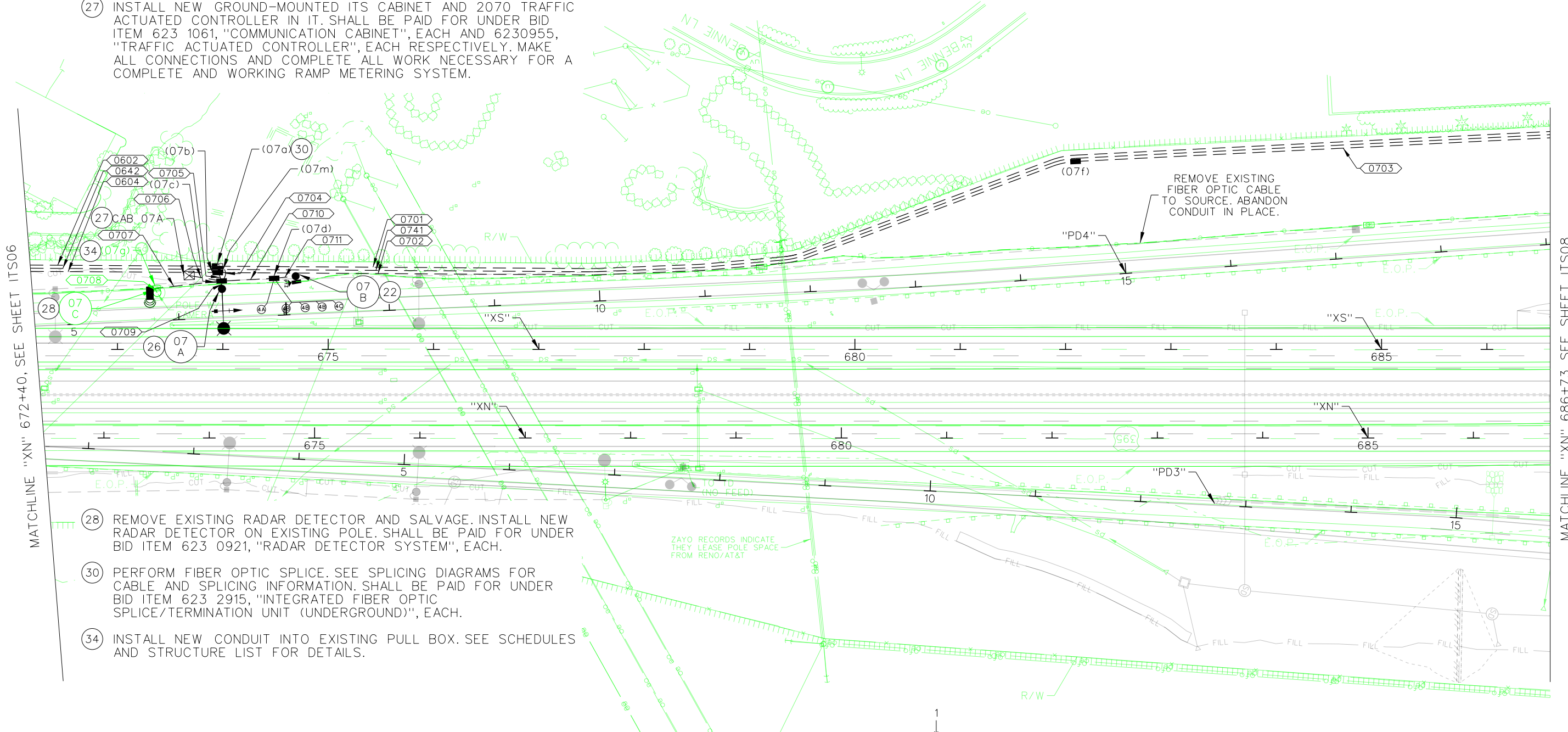
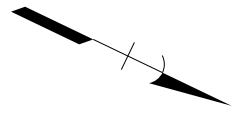


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

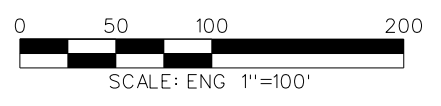
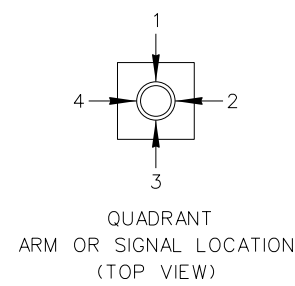
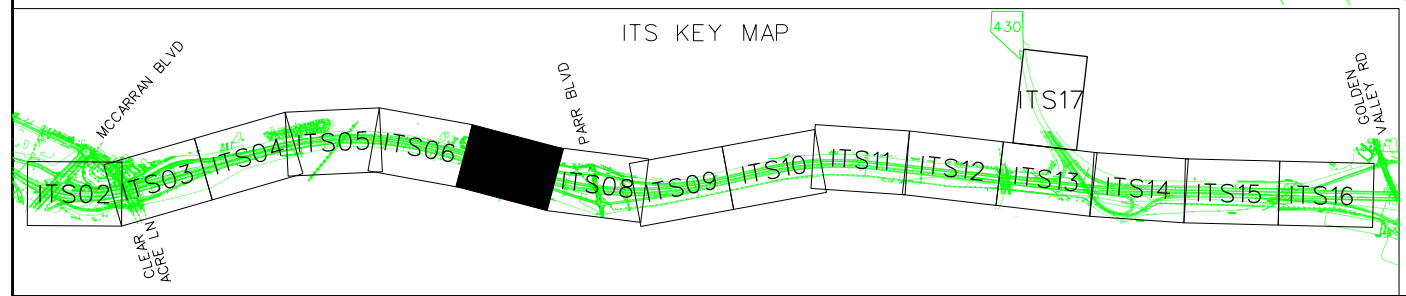
RWIS INSET

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS07

- 22) INSTALL NEW 30' ITS POLE WITH PTZ CCTV CAMERA. SHALL BE PAID FOR UNDER BID ITEMS 623 0653, "ITS POLE (30 FOOT)", EACH, 623 3030, "CCTV CAMERA (PTZ)", EACH.
- 26) INSTALL NEW SIGNAL POLE, SIGNAL HEADS, AND MISCELLANEOUS SIGNAL EQUIPMENT PER SCHEDULES FOR A COMPLETE RAMP METERING SYSTEM. SCHEDULES AND STRUCTURE LIST PROVIDE ADDITIONAL INFORMATION, INCLUDING BID ITEMS.
- 27) INSTALL NEW GROUND-MOUNTED ITS CABINET AND 2070 TRAFFIC ACTUATED CONTROLLER IN IT. SHALL BE PAID FOR UNDER BID ITEM 623 1061, "COMMUNICATION CABINET", EACH AND 6230955, "TRAFFIC ACTUATED CONTROLLER", EACH RESPECTIVELY. MAKE ALL CONNECTIONS AND COMPLETE ALL WORK NECESSARY FOR A COMPLETE AND WORKING RAMP METERING SYSTEM.



- 28) REMOVE EXISTING RADAR DETECTOR AND SALVAGE. INSTALL NEW RADAR DETECTOR ON EXISTING POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0921, "RADAR DETECTOR SYSTEM", EACH.
- 30) PERFORM FIBER OPTIC SPLICE. SEE SPLICING DIAGRAMS FOR CABLE AND SPLICING INFORMATION. SHALL BE PAID FOR UNDER BID ITEM 623 2915, "INTEGRATED FIBER OPTIC SPLICE/TERMINATION UNIT (UNDERGROUND)", EACH.
- 34) INSTALL NEW CONDUIT INTO EXISTING PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.



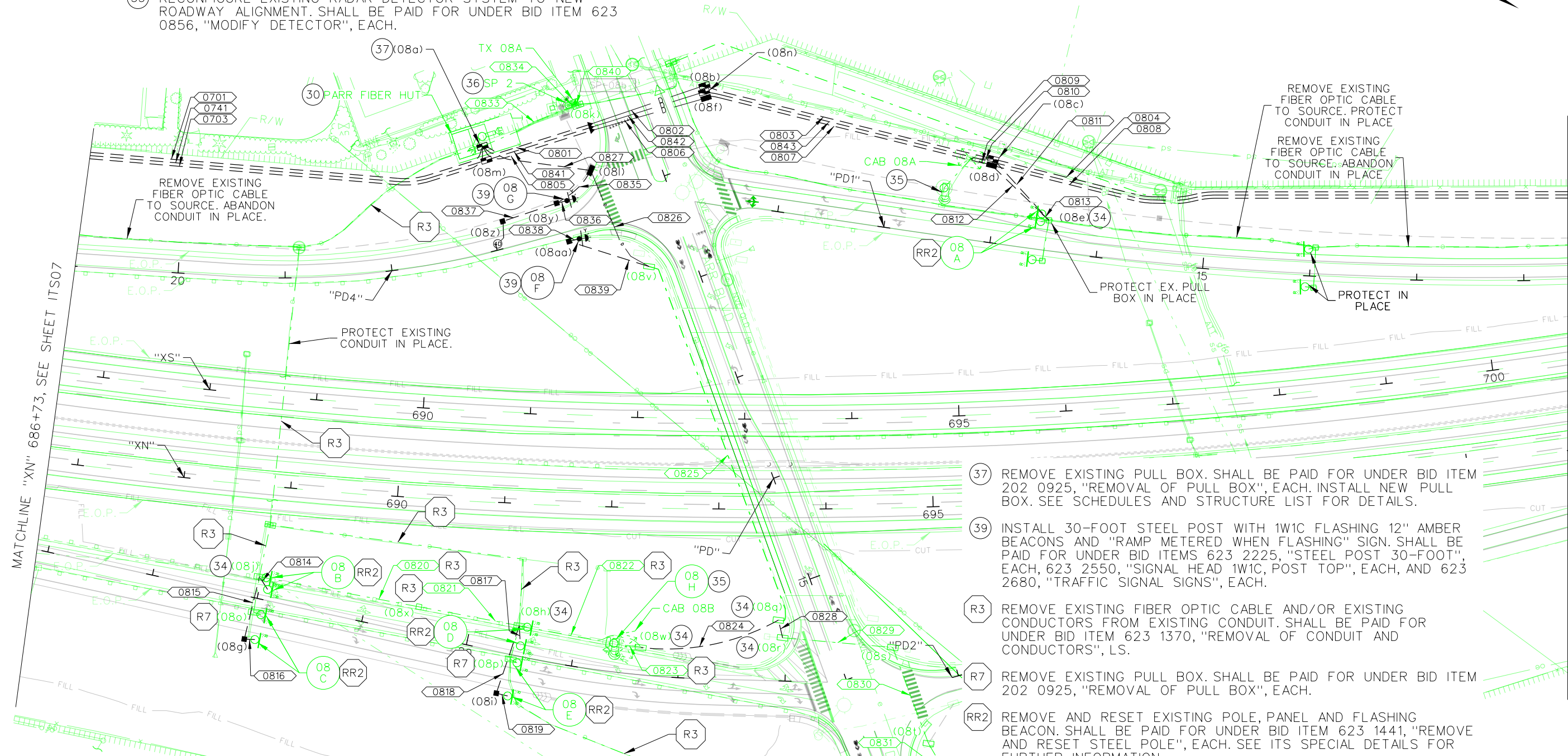
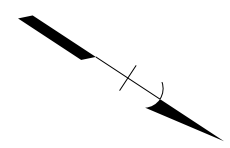
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLAN
"XN" 672+40 TO
"XN" 686+73

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS08

- 30 PERFORM FIBER OPTIC SPLICE. SEE SPLICING DIAGRAMS FOR CABLE AND SPLICING INFORMATION. SHALL BE PAID FOR UNDER BID ITEM 623 2915, "INTEGRATED FIBER OPTIC SPLICE/TERMINATION UNIT (UNDERGROUND)", EACH.
- 34 INSTALL NEW CONDUIT INTO EXISTING PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.
- 35 RECONFIGURE EXISTING RADAR DETECTOR SYSTEM TO NEW ROADWAY ALIGNMENT. SHALL BE PAID FOR UNDER BID ITEM 623 0856, "MODIFY DETECTOR", EACH.

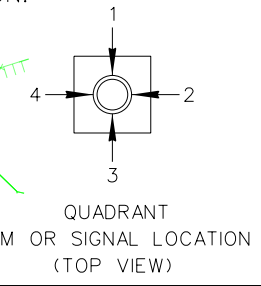
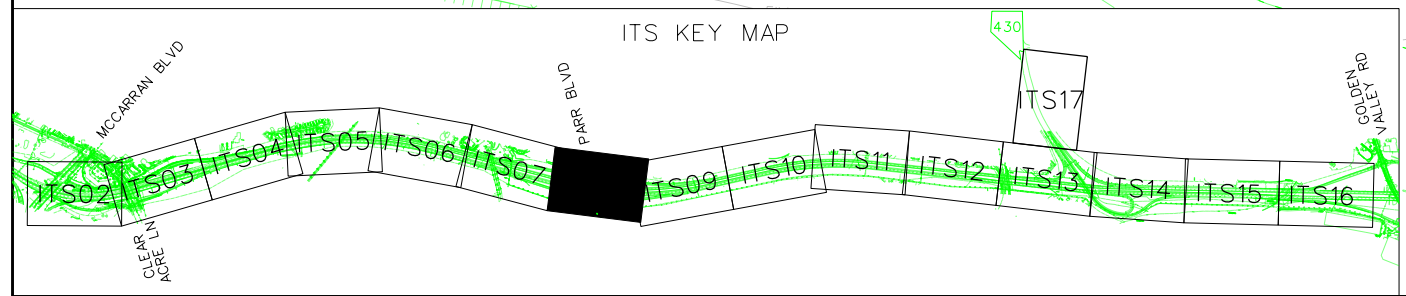
- 36 INSTALL NEW CONDUCTORS INTO NEW BREAKER IN EXISTING SERVICE PEDESTAL. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS. SHALL BE PAID FOR UNDER BID ITEM 623 1635, "MODIFY ELECTRICAL SERVICE", EACH.



- 37 REMOVE EXISTING PULL BOX. SHALL BE PAID FOR UNDER BID ITEM 202 0925, "REMOVAL OF PULL BOX", EACH. INSTALL NEW PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.
- 39 INSTALL 30-FOOT STEEL POST WITH 1W1C FLASHING 12" AMBER BEACONS AND "RAMP METERED WHEN FLASHING" SIGN. SHALL BE PAID FOR UNDER BID ITEMS 623 2225, "STEEL POST 30-FOOT", EACH, 623 2550, "SIGNAL HEAD 1W1C, POST TOP", EACH, AND 623 2680, "TRAFFIC SIGNAL SIGNS", EACH.
- R3 REMOVE EXISTING FIBER OPTIC CABLE AND/OR EXISTING CONDUCTORS FROM EXISTING CONDUIT. SHALL BE PAID FOR UNDER BID ITEM 623 1370, "REMOVAL OF CONDUIT AND CONDUCTORS", LS.
- R7 REMOVE EXISTING PULL BOX. SHALL BE PAID FOR UNDER BID ITEM 202 0925, "REMOVAL OF PULL BOX", EACH.
- RR2 REMOVE AND RESET EXISTING POLE, PANEL AND FLASHING BEACON. SHALL BE PAID FOR UNDER BID ITEM 623 1441, "REMOVE AND RESET STEEL POLE", EACH. SEE ITS SPECIAL DETAILS FOR FURTHER INFORMATION.

MATCHLINE "XN" 686+73, SEE SHEET ITS07

MATCHLINE "XN" 700+99, SEE SHEET ITS09

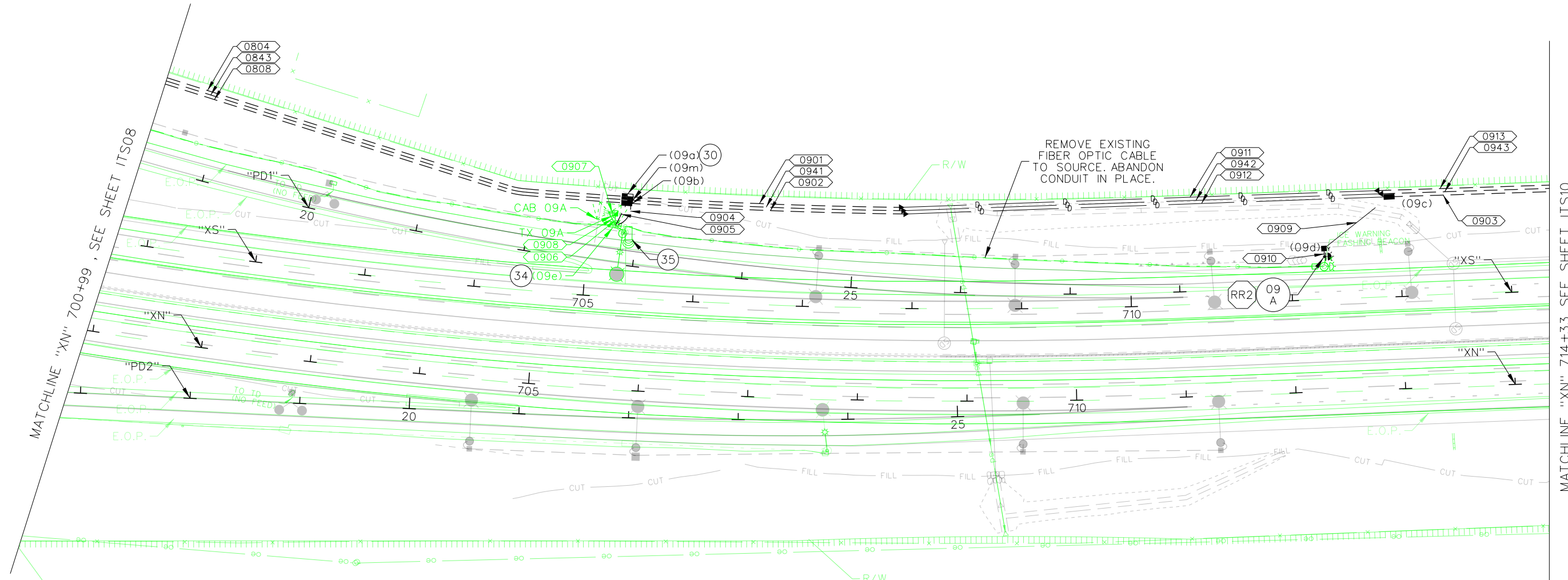
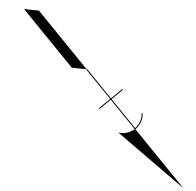


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLAN
"XN" 686+73 TO
"XN" 700+99

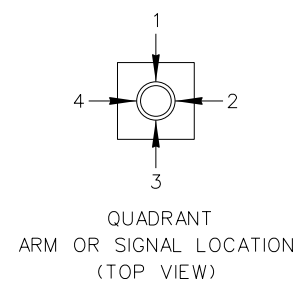
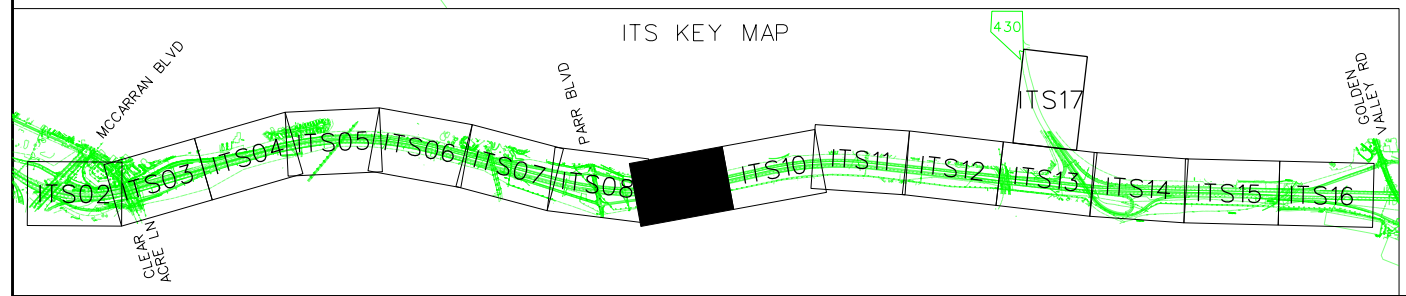
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS09

- 30 PERFORM FIBER OPTIC SPLICE. SEE SPLICING DIAGRAMS FOR CABLE AND SPLICING INFORMATION. SHALL BE PAID FOR UNDER BID ITEM 623 2915, "INTEGRATED FIBER OPTIC SPLICE/TERMINATION UNIT (UNDERGROUND)", EACH.
- 34 INSTALL NEW CONDUIT INTO EXISTING PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.
- 35 RECONFIGURE EXISTING RADAR DETECTOR SYSTEM TO NEW ROADWAY ALIGNMENT. SHALL BE PAID FOR UNDER BID ITEM 623 0856, "MODIFY DETECTOR", EACH.
- RR2 REMOVE AND RESET EXISTING POLE, PANEL AND FLASHING BEACON. SHALL BE PAID FOR UNDER BID ITEM 623 1441, "REMOVE AND RESET STEEL POLE", EACH.



MATCHLINE "XN" 700+99, SEE SHEET ITS08

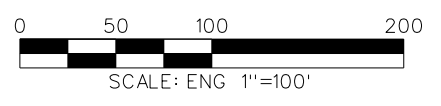
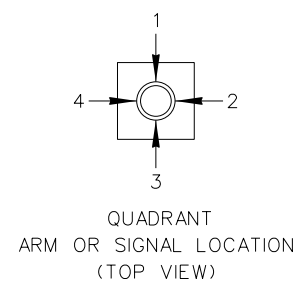
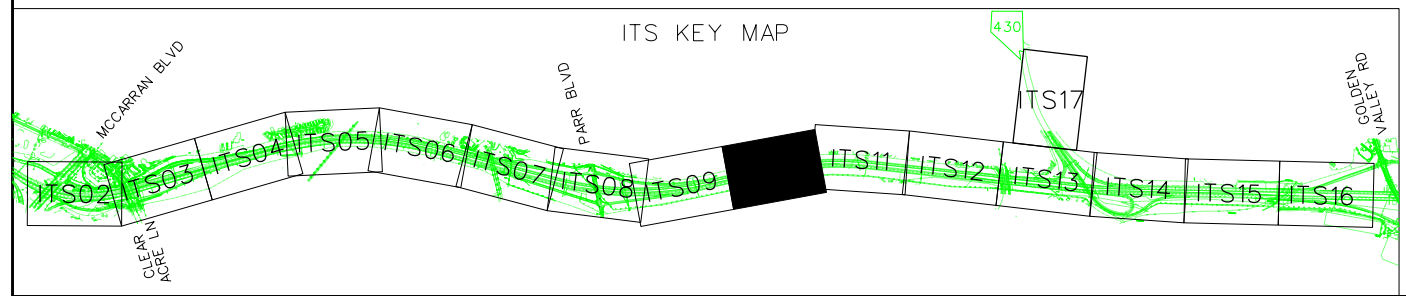
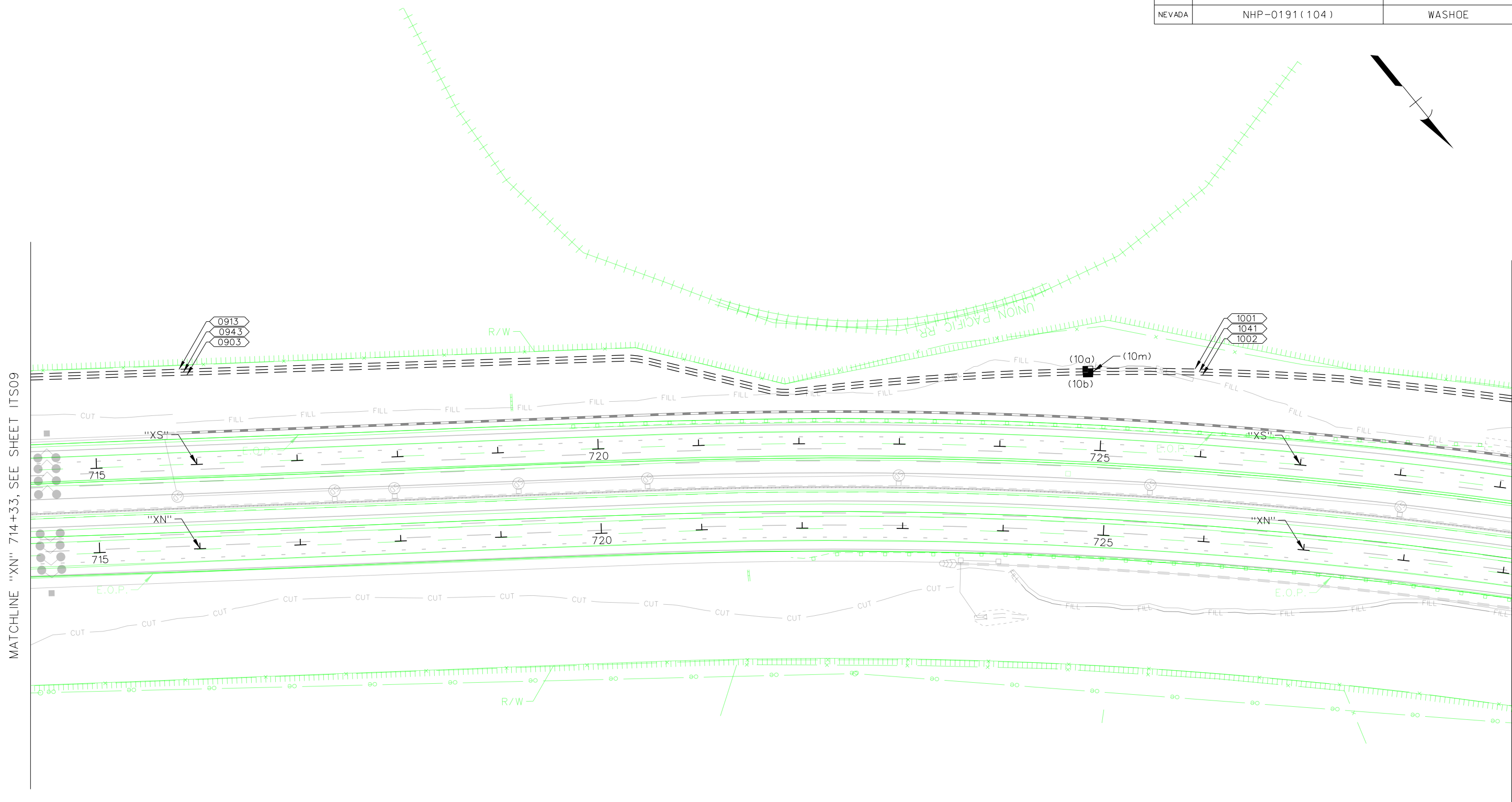
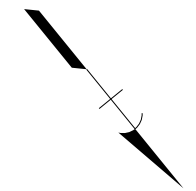
MATCHLINE "XN" 714+33, SEE SHEET ITS10



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLAN
"XN" 700+99 TO
"XN" 714+33

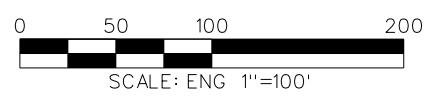
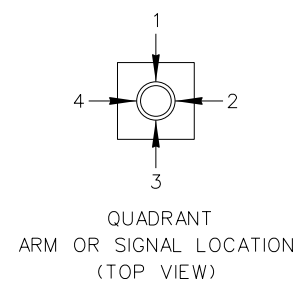
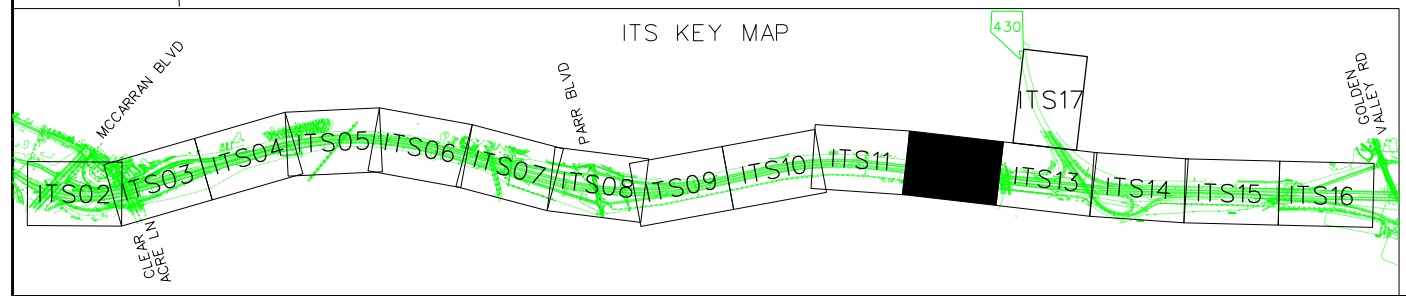
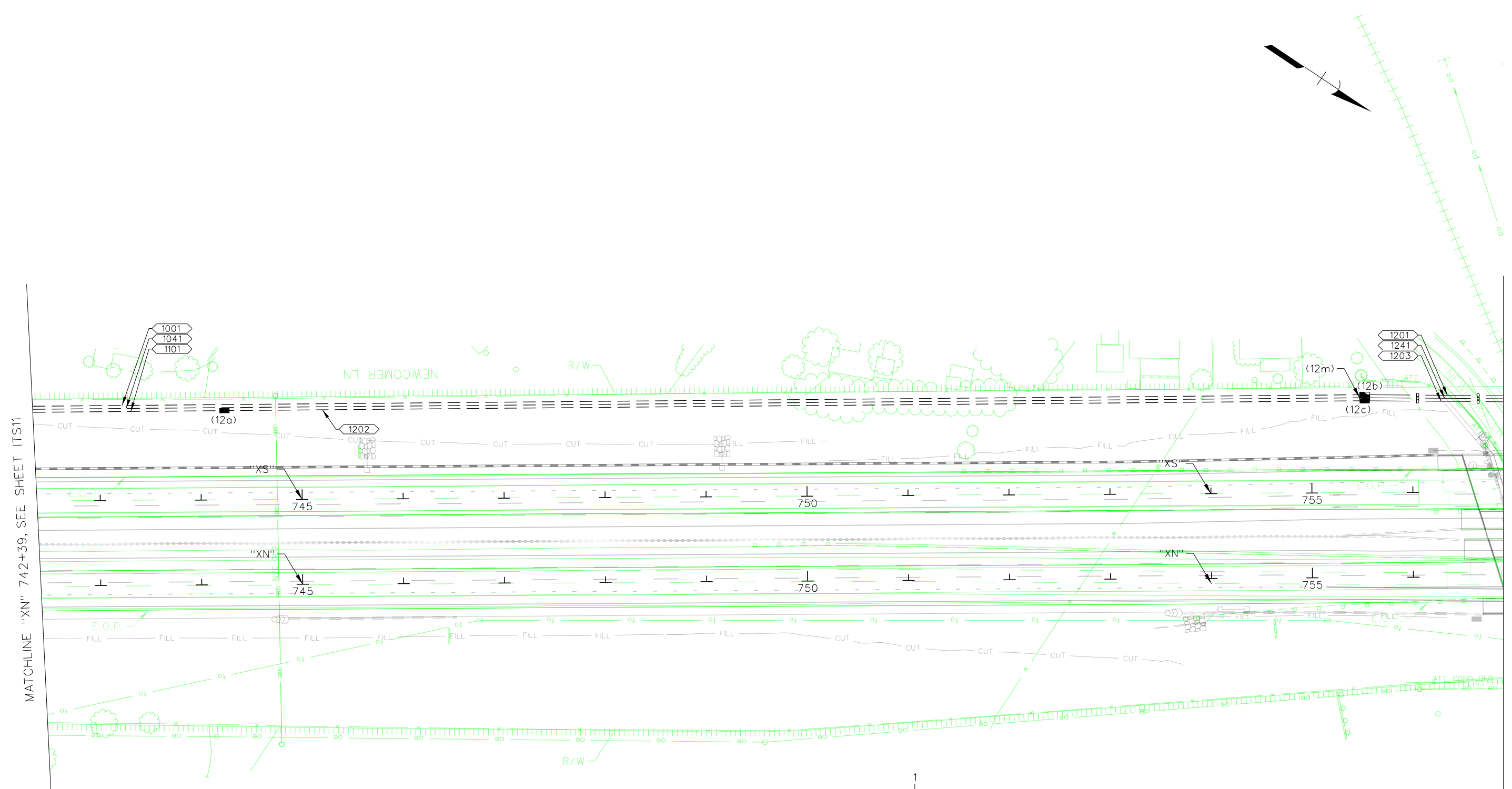
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS10



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLAN
"XN" 714+33 TO
"XN" 729+03

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS12



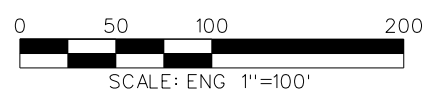
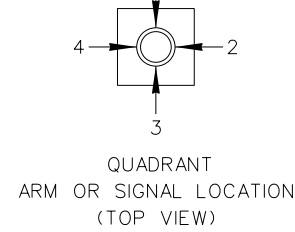
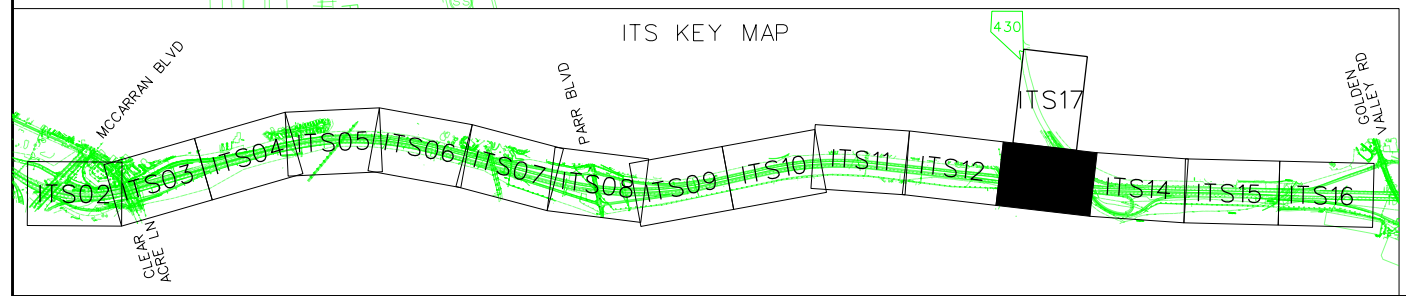
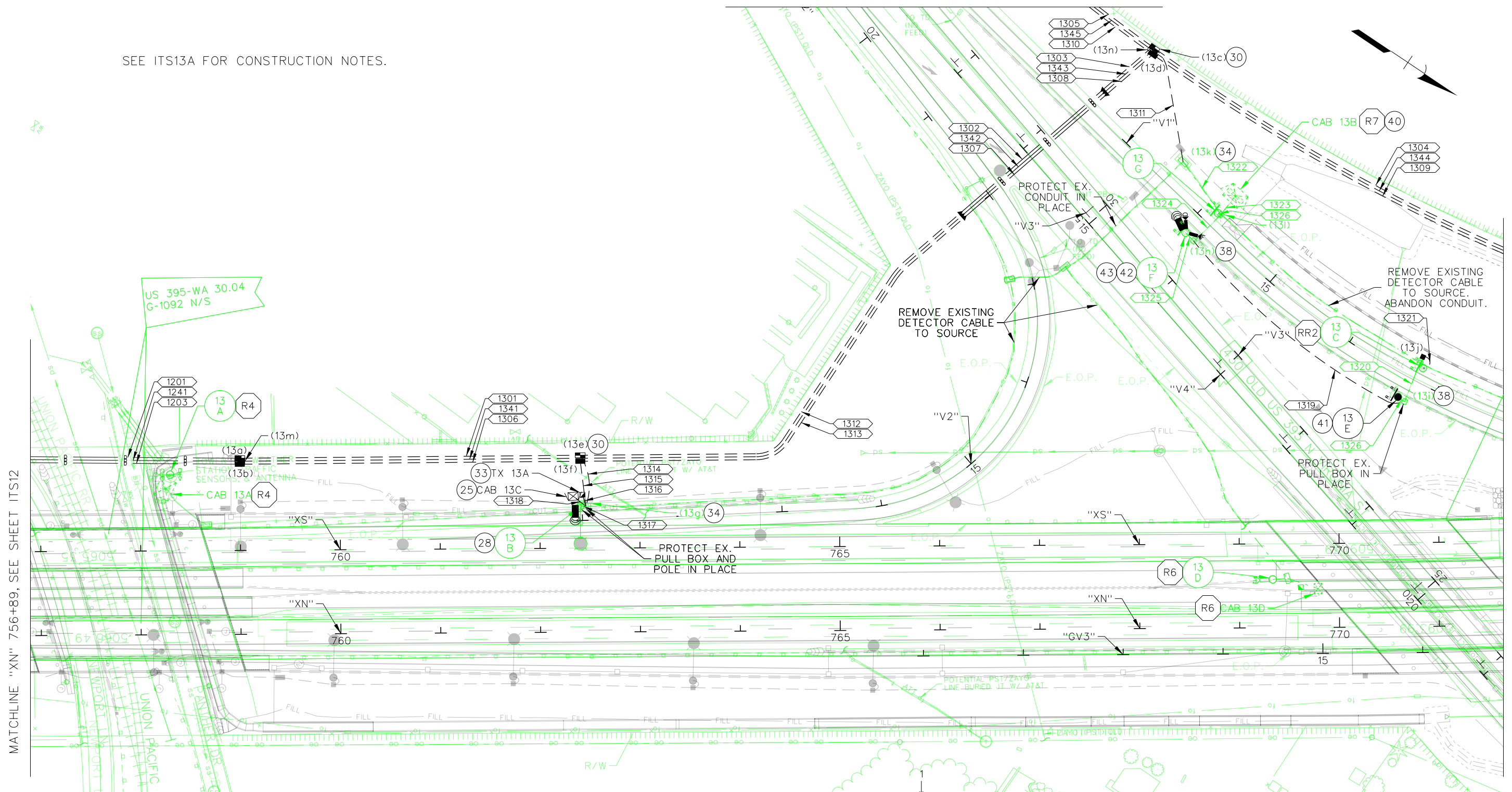
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLAN
"XN" 742+39 TO
"XN" 756+89

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS13

MATCHLINE "V4" 12+13, SEE SHEET ITS 17

SEE ITS13A FOR CONSTRUCTION NOTES.



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLAN
"XN" 756+89 TO
"XN" 771+65

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS13A

- ②5 INSTALL NEW GROUND MOUNTED ITS CABINET. SHALL BE PAID FOR UNDER BID ITEM 623 1061, "COMMUNICATION CABINET", EACH.
- ②8 REMOVE EXISTING RADAR DETECTOR AND SALVAGE. INSTALL NEW RADAR DETECTOR ON EXISTING POLE. SHALL BE PAID FOR UNDER BID ITEM 623 0921, "RADAR DETECTOR SYSTEM", EACH.
- ③0 PERFORM FIBER OPTIC SPLICE. SEE SPLICING DIAGRAMS FOR CABLE AND SPLICING INFORMATION. SHALL BE PAID FOR UNDER BID ITEM 623 2915, "INTEGRATED FIBER OPTIC SPLICE/TERMINATION UNIT (UNDERGROUND)", EACH.
- ③3 INSTALL NEW 3 KVA, 600V TO 120V, SINGLE PHASE, STEP DOWN TRANSFORMER. SHALL BE PAID FOR UNDER BID ITEM 623 1722, "TRANSFORMER (3 KVA)", EACH.
- ③4 INSTALL NEW CONDUIT INTO EXISTING PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.
- ③8 INSTALL NEW CONDUIT INTO EXISTING PULL BOX. CONNECT EXISTING CONDUCTORS WITH NEW CONDUCTORS THAT ARE RUNNING IN CONDUIT RUN 1319.
- ④0 INSTALL WRONG WAY DRIVER WARNING SYSTEM IN EXISTING COMMUNICATION CABINET. SHALL BE PAID FOR UNDER BID ITEM 623 3050, "RECTANGULAR RAPID FLASHING BEACON CONTROLLER (TYPE 2)", EACH.
- ④1 INSTALL (2) NEW RECTANGULAR RAPID FLASHING BEACONS (RRFB) ON NEW 30' STEEL POST. SHALL BE PAID FOR UNDER BID ITEM 623 3040, "RECTANGULAR RAPID FLASHING BEACON", EACH, AND BID ITEM 623 2225, "STEEL POST, 30-FOOT", EACH.
- ④2 INSTALL (2) FLIR DETECTORS, INCOMING AND OUTGOING, ON EXISTING POLE. SHALL BE PAID FOR UNDER BID ITEM 623 3035, "CCTV CAMERA (DETECTABLE)", EACH. SEE POLE SCHEDULE AND SPECIAL DETAILS FOR FURTHER INFORMATION.
- ④3 INSTALL (2) CCTV CAMERAS. INCOMING AND OUTGOING, AND (2) ILLUMINATORS, INCOMING AND OUTGOING, ON EXISTING POLE. SHALL BE PAID FOR UNDER BID ITEM 623 1264, "CCTV CAMERA (FIXED)", EACH. SEE POLE SCHEDULE AND SPECIAL DETAILS FOR FURTHER INFORMATION.

- ⓄR4 REMOVE EXISTING RWIS POLE AND EQUIPMENT AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1375, "REMOVAL OF POLE", EACH. REMOVE EXISTING RWIS CABINET AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1320, "REMOVAL OF TRAFFIC SIGNAL CONTROLLER CABINET", EACH.
- ⓄR6 REMOVE EXISTING ITS POLE, CCTV, EQUIPMENT, AND TRANSFORMER AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1375, "REMOVAL OF POLE", EACH. REMOVE EXISTING CABINET AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1320, "REMOVAL OF TRAFFIC SIGNAL CONTROLLER CABINET", EACH.
- ⓄR8 REMOVE EXISTING WRONG WAY DRIVER SYSTEM FROM COMMUNICATION CABINET AND EXISTING POLE. SHALL BE PAID FOR UNDER BID ITEM 623 1530, "REMOVE AND RESET VIDEO DETECTION SYSTEM", EACH.
- ⓄRR2 REMOVE AND RESET EXISTING POLE, PANEL AND FLASHING BEACON. SHALL BE PAID FOR UNDER BID ITEM 623 1441, "REMOVE AND RESET STEEL POLE", EACH. SEE SPECIAL DETAILS FOR FURTHER INFORMATION.

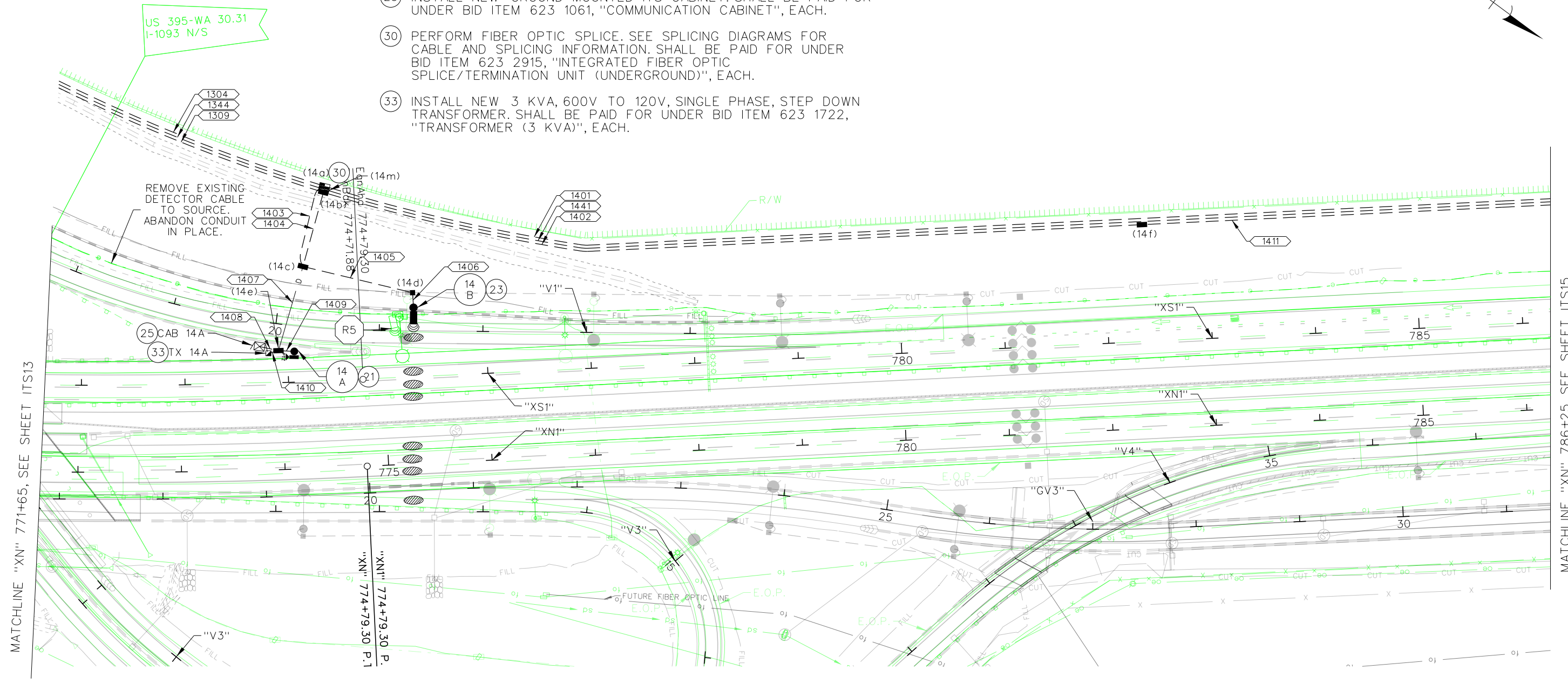
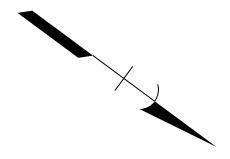
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLAN
"XN" 756+89 TO
"XN" 771+65

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS14

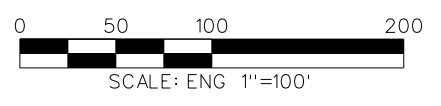
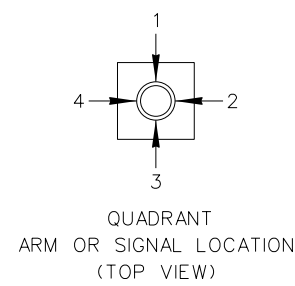
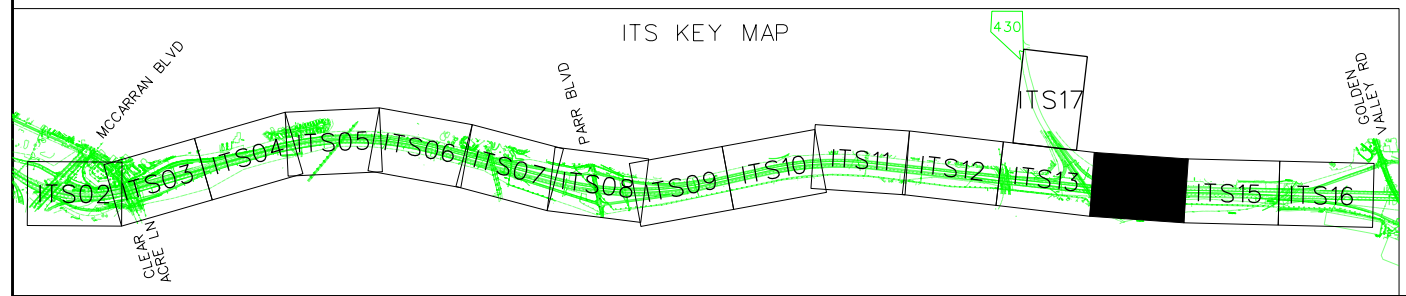
- (21) INSTALL NEW 80' ITS POLE WITH PTZ CCTV CAMERA AND LOWERING DEVICE. SHALL BE PAID FOR UNDER BID ITEMS 623 0658, "ITS POLE (80 FOOT)", EACH, 623 3030, "CCTV CAMERA (PTZ)", EACH, AND 623 2950, "CCTV LOWERING DEVICE (HIGH MAST)", EACH.
- (23) INSTALL NEW 30' ITS POLE WITH RADAR DETECTOR SYSTEM. SHALL BE PAID FOR UNDER BID ITEMS 623 0921, "RADAR DETECTOR SYSTEM", EACH AND 623 0653, "ITS POLE (30 FOOT)", EACH. SEE SCHEDULES FOR MORE INFORMATION.
- (25) INSTALL NEW GROUND MOUNTED ITS CABINET. SHALL BE PAID FOR UNDER BID ITEM 623 1061, "COMMUNICATION CABINET", EACH.
- (30) PERFORM FIBER OPTIC SPLICE. SEE SPLICING DIAGRAMS FOR CABLE AND SPLICING INFORMATION. SHALL BE PAID FOR UNDER BID ITEM 623 2915, "INTEGRATED FIBER OPTIC SPLICE/TERMINATION UNIT (UNDERGROUND)", EACH.
- (33) INSTALL NEW 3 KVA, 600V TO 120V, SINGLE PHASE, STEP DOWN TRANSFORMER. SHALL BE PAID FOR UNDER BID ITEM 623 1722, "TRANSFORMER (3 KVA)", EACH.

(R5) REMOVE EXISTING POLE MOUNTED RADAR DETECTOR SYSTEM AND SALVAGE. SHALL BE PAID FOR UNDER BID ITEM 623 1405, "REMOVE POLE MOUNTED CONTROLLER", EACH.



MATCHLINE "XN" 771+65, SEE SHEET ITS13

MATCHLINE "XN" 786+25, SEE SHEET ITS15

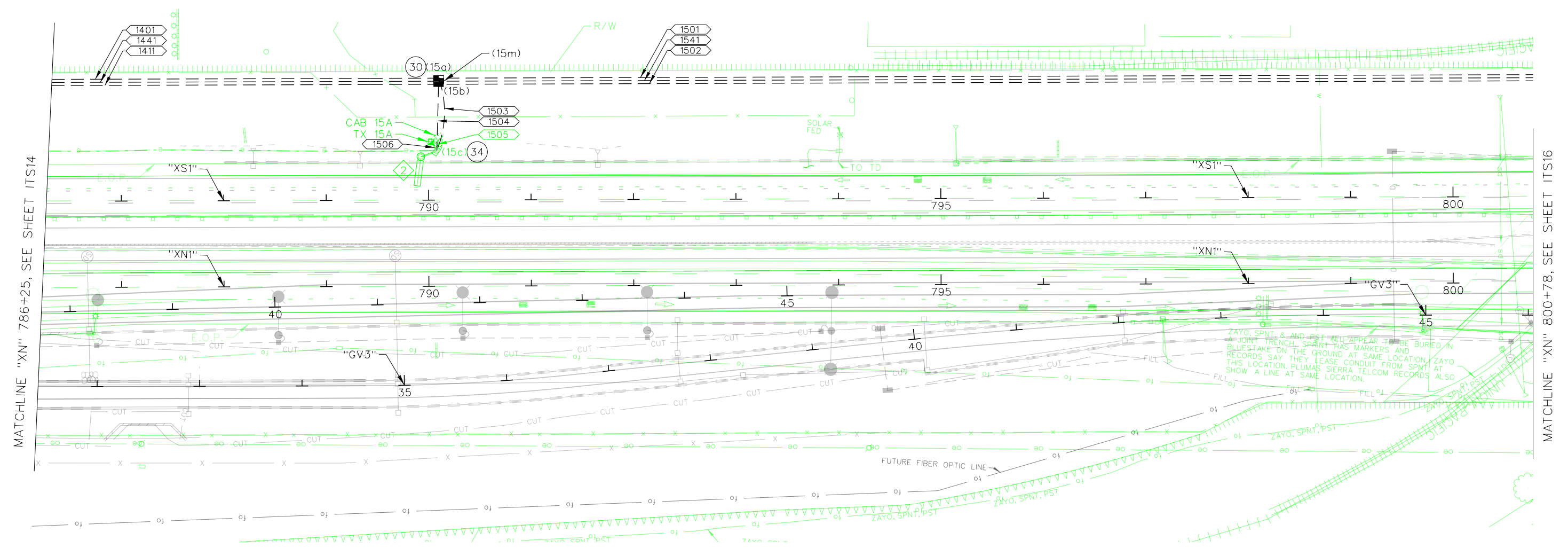
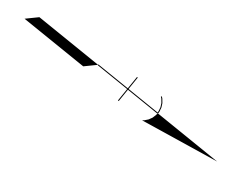


STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLAN
"XN" 771+65 TO
"XN" 786+25

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS15

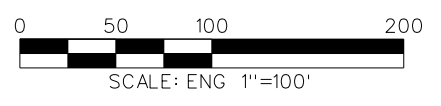
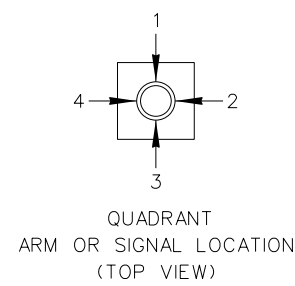
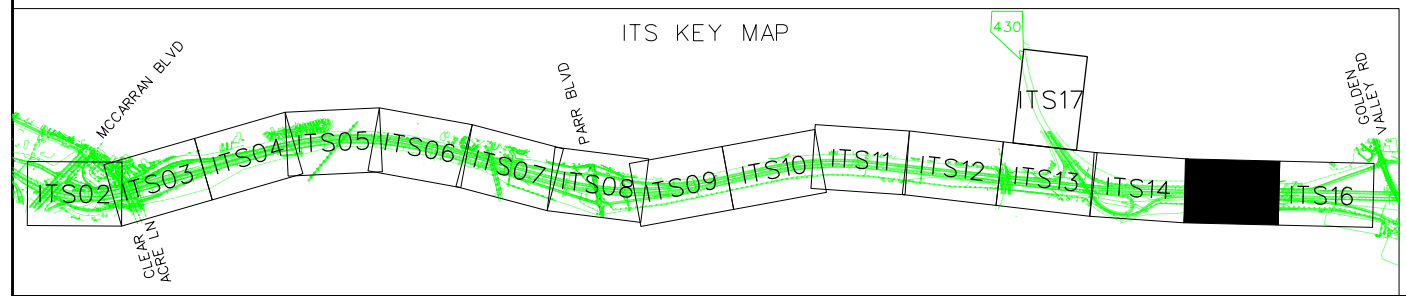
- 30 PERFORM FIBER OPTIC SPLICE. SEE SPLICING DIAGRAMS FOR CABLE AND SPLICING INFORMATION. SHALL BE PAID FOR UNDER BID ITEM 623 2915, "INTEGRATED FIBER OPTIC SPLICE/TERMINATION UNIT (UNDERGROUND)", EACH.
- 34 INSTALL NEW CONDUIT INTO EXISTING PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.



MATCHLINE "XN" 786+25, SEE SHEET ITS14

MATCHLINE "XN" 800+78, SEE SHEET ITS16

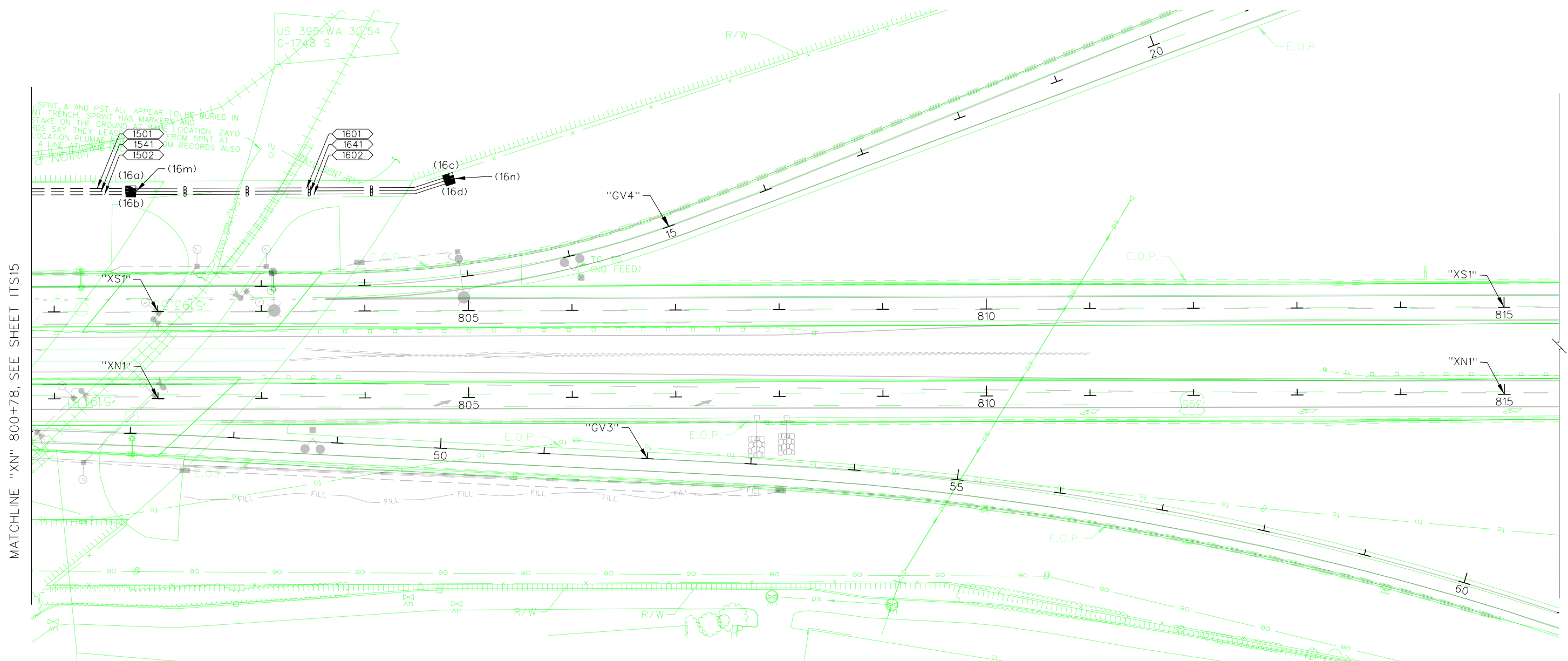
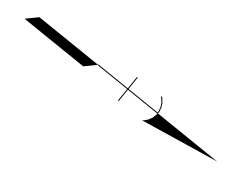
ZAYO, SPNT & AND PST ALL APPEAR TO BE BURIED IN A JOINT TRENCH. SPRINT HAS MARKERS AND RECORDS SAY THEY LEASE CONDUIT FROM SPRINT AT THIS LOCATION. PLUMAS SIERRA TELCOM RECORDS ALSO SHOW A LINE AT SAME LOCATION.



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

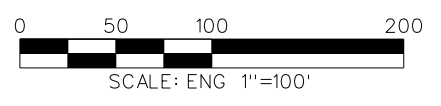
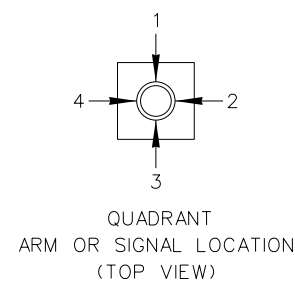
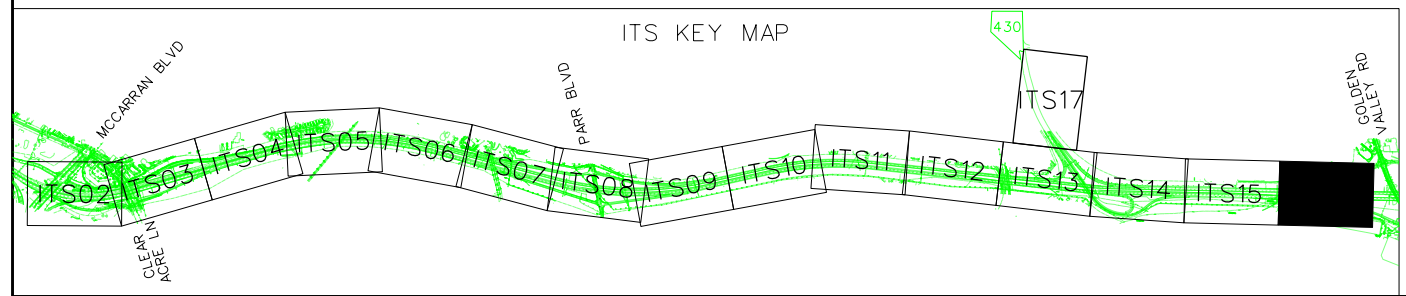
ITS PLAN
"XN" 786+25 TO
"XN" 800+78

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS16



MATCHLINE "XN" 800+78, SEE SHEET ITS15

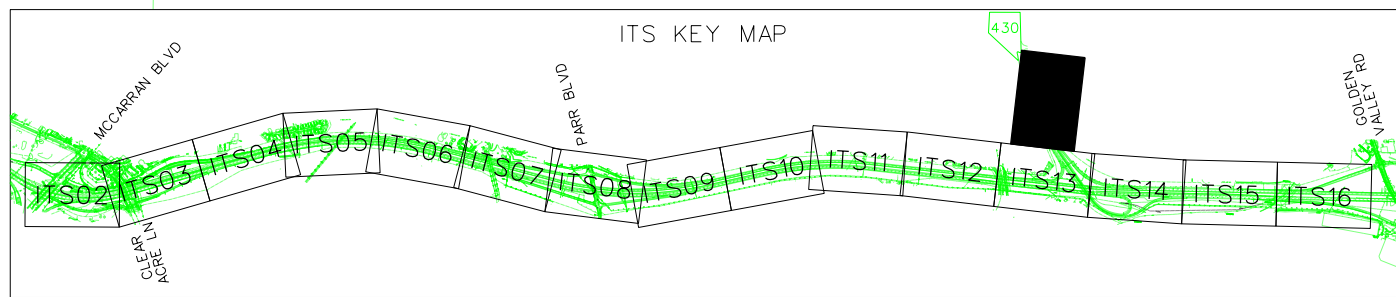
BREAKLINE "XN" 815+53



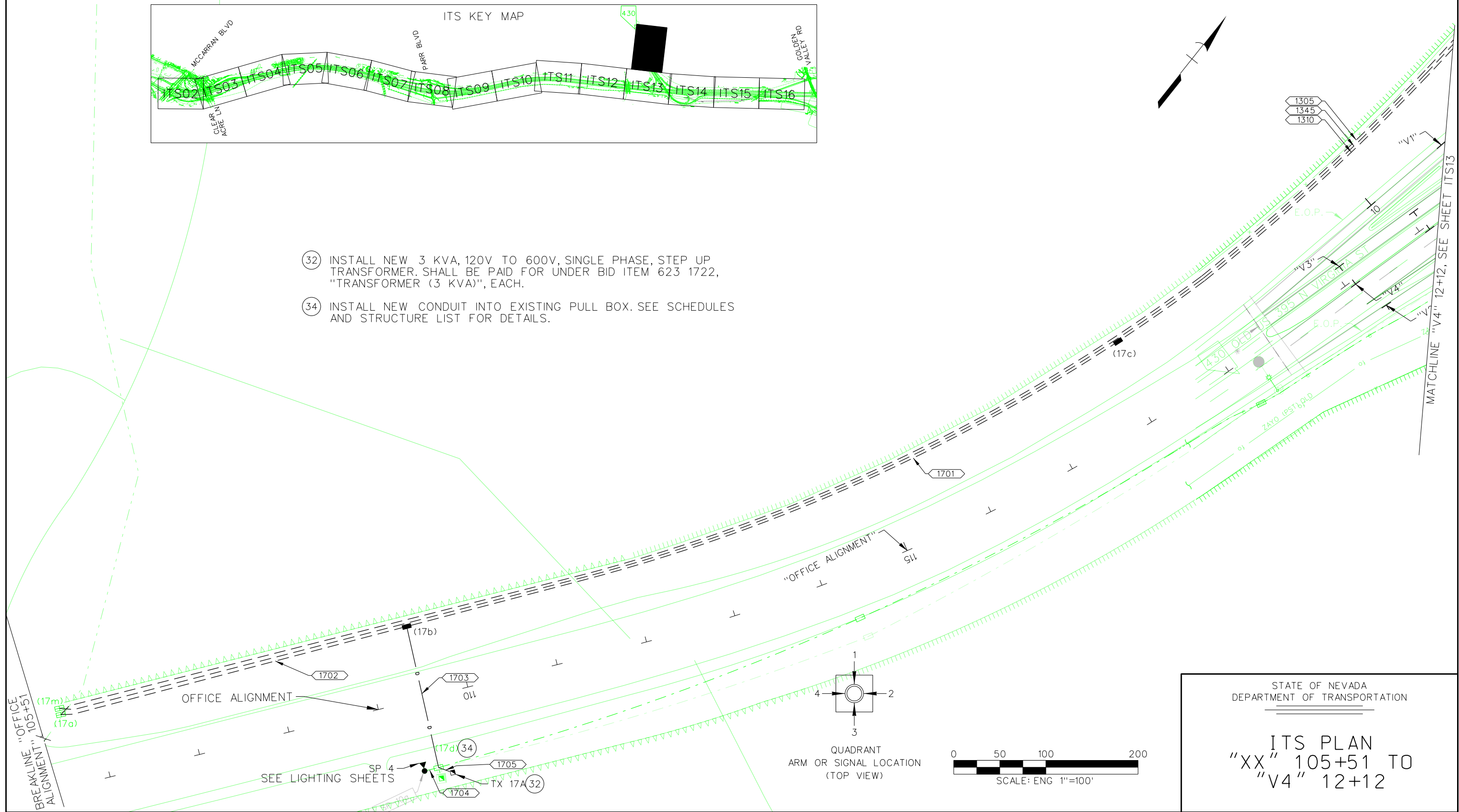
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLAN
"XN" 800+78 TO
"XN" 815+53

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS17

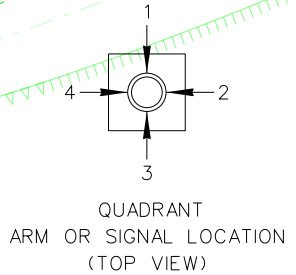


- ③② INSTALL NEW 3 KVA, 120V TO 600V, SINGLE PHASE, STEP UP TRANSFORMER. SHALL BE PAID FOR UNDER BID ITEM 623 1722, "TRANSFORMER (3 KVA)", EACH.
- ③④ INSTALL NEW CONDUIT INTO EXISTING PULL BOX. SEE SCHEDULES AND STRUCTURE LIST FOR DETAILS.



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS PLAN
"XX" 105+51 TO
"V4" 12+12



CONDUIT RUN SCHEDULE																											
CON. RUN	FROM	TO	LEN. LINF	DIR. DRILL	NTV BACK FILL	CONDUIT			CONDUCTOR										FIBER		CCTV	RDS	ETHERNET			COMMENTS	
						EX.	PLASTIC		CIRCUIT			EX.	GRD			POW				BC	144 FOC	COMP. CABLE	ETHERNET CABLE	ETHERNET CABLE	COND. 25 #14		LOOPS LEAD-IN
							1-1/4"	3"	MULTI DUCT	SP #	CKT #		VOLTAGE	#8	#6	#2	#8	#6	#2								
02 01	ITS VAULT (02a)	PULL BOX (02b)	254'			X		1																			
02 02	PULL BOX (02b)	PULL BOX (02c)	204'			X		1																			
02 03	PULL BOX (02c)	PULL BOX (03a)	505'			X		1																			
03 01	PULL BOX (03e)	ITS VAULT (04a)	1011'						1																		NDOT TRUNKLINE - INSTALL FOC IN BLACK INNERDUCT
03 02	PULL BOX (03e)	PULL BOX (04b)	1011'					1																			NDOT TRUNKLINE - INSTALL FOC IN GREEN INNERDUCT
03 03	PULL BOX (03e)	PULL BOX (03d)	289'			X		1																			FOR FUTURE POWER USE
03 04	PULL BOX (03d)	PULL BOX (03c)	256'			X		1																			
03 05	PULL BOX (03c)	PULL BOX (03b)	204'			X		1																			
03 06	PULL BOX (03b)	PULL BOX (03a)	230'			X		1																			
03 41	ITS VAULT (03m)	ITS VAULT (04m)	1010'						1																		FOR FUTURE UTILITY USE
04 01	ITS VAULT (04a)	CONDUIT RUN (0402)	677'						1																		NDOT TRUNKLINE - INSTALL FOC IN BLACK INNERDUCT
04 02	CONDUIT RUN (0401)	CONDUIT RUN (0403)	118'	X					1																		NDOT TRUNKLINE - INSTALL FOC IN GREEN INNERDUCT
04 03	CONDUIT RUN (0402)	ITS VAULT (06a)	1469'						1																		NDOT TRUNKLINE - INSTALL FOC IN BLACK INNERDUCT
04 04	PULL BOX (04b)	CONDUIT RUN (0405)	677'					1																			NDOT TRUNKLINE - INSTALL FOC IN GREEN INNERDUCT
04 05	CONDUIT RUN (0404)	CONDUIT RUN (0406)	118'	X				1																			FOR FUTURE POWER USE
04 06	CONDUIT RUN (0405)	PULL BOX (05a)	518'					1																			FOR FUTURE POWER USE
04 07	ITS VAULT (04a)	PULL BOX (04c)	66'					1																			FOR FUTURE POWER USE
04 41	ITS VAULT (04m)	CONDUIT RUN (0442)	677'						1																		FOR FUTURE UTILITY USE
04 42	CONDUIT RUN (0441)	CONDUIT RUN (0443)	118'	X					1																		FOR FUTURE UTILITY USE
04 43	CONDUIT RUN (0442)	ITS VAULT (06m)	1469'						1																		FOR FUTURE UTILITY USE
05 01	PULL BOX (05a)	PULL BOX (05b)	861'					1																			
05 02	PULL BOX (05b)	PULL BOX (06b)	557'					1																			
05 03	PULL BOX (05b)	POLE 05A	33'					1																			
06 01	ITS VAULT (06a)	ITS VAULT (06d)	428'						1																		NDOT TRUNKLINE - INSTALL FOC IN BLACK INNERDUCT
06 02	ITS VAULT (06d)	ITS VAULT (07a)	1132'						1																		NDOT TRUNKLINE - INSTALL FOC IN GREEN INNERDUCT
06 03	PULL BOX (06b)	PULL BOX (06e)	427'					1																			NDOT TRUNKLINE - INSTALL FOC IN BLACK INNERDUCT
06 04	PULL BOX (06e)	PULL BOX (07b)	1132'					1																			NDOT TRUNKLINE - INSTALL FOC IN GREEN INNERDUCT
06 05	PULL BOX (06b)	PULL BOX (06c)	30'					1																			
06 06	ITS VAULT (06a)	PULL BOX (06c)	39'					1																			
06 07	PULL BOX (06e)	PULL BOX (06f)	23'					1																			
06 08	TRANSFORMER 06B	CAB 06B	21'			X		1																			
06 09	ITS VAULT (06d)	PULL BOX (06f)	28'					1																			
06 10	PULL BOX (06f)	TRANSFORMER 06B	20'			X		1																			
06 11	PULL BOX (06f)	CAB 06B	10'			X		1																			

PULL BOX SCHEDULE									
NO.	STATION	OFFSET	LT/RT	EX.	TYPE	LOCKING LID	BURIED	COMMENTS	
02 a	"XS"	606+36	311'	LT	X	NO. 9 PULL BOX			
02 b	"XS"	609+13	228'	LT	X	NO. 7 PULL BOX			
02 c	"XS"	611+26	158'	LT	X	NO. 9 PULL BOX			
03 a	"XS"	616+43	95'	LT	X	NO. 9 PULL BOX			
03 b	"XS"	618+76	112'	LT	X	NO. 7 PULL BOX			
03 c	"XS"	620+82	98'	LT	X	NO. 5 PULL BOX			
03 d	"XS"	623+24	144'	LT	X	NO. 5 PULL BOX			
03 e	"XS"	626+09	190'	LT	X	NO. 9 PULL BOX			
03 m	RE	18+65	26'	LT		ITS VAULT			
04 a	"RE"	28+75	50'	LT		ITS VAULT			
04 b	"RE"	28+75	44'	LT		NO. 7 PULL BOX, MOD			
04 c	"RE"	28+17	18'	LT	X	NO. 7 PULL BOX			
04 m	"RE"	28+75	47'	LT		ITS VAULT			
05 a	"XS"	644+59	59'	LT		NO. 5 PULL BOX, MOD			
05 b	"XS"	653+01	79'	LT		NO. 7 PULL BOX, MOD			
06 a	"XS"	658+49	86'	LT		ITS VAULT			
06 b	"XS"	658+49	80'	LT		NO. 7 PULL BOX, MOD			
06 c	"XS"	658+43	51'	LT	X	NO. 9 PULL BOX			
06 d	"XS"	662+70	85'	LT		ITS VAULT			
06 e	"XS"	662+70	79'	LT		NO. 7 PULL BOX, MOD			
06 f	"XS"	662+56	44'	LT		NO. 7 PULL BOX, MOD			
06 m	"XS"	658+49	83'	LT		ITS VAULT			
06 n	"XS"	662+70	82'	LT		ITS VAULT			
07 a	"XS"	673+95	79'	LT		ITS VAULT			
07 b	"XS"	673+95	73'	LT		NO. 7 PULL BOX, MOD			
07 c	"XS"	673+99	65'	LT		NO. 7 PULL BOX, MOD			
07 d	"XS"	674+49	67'	LT		NO. 7 PULL BOX, MOD			
07 f	"XS"	682+09	178'	LT		NO. 7 PULL BOX, MOD			
07 g	"XS"	673+36	58'	LT	X	NO. 7 PULL BOX			
07 m	"XS"	673+95	76'	LT		ITS VAULT			
08 a	"XS"	690+41	247'	LT		ITS VAULT			
08 b	"PD1"	10+15	107'	LT		ITS VAULT			
08 c	"PD1"	12+92	78'	LT		ITS VAULT			
08 d	"PD1"	12+91	72'	LT		NO. 7 PULL BOX, MOD			
08 e	"PD1"	13+52	29'	LT	X	NO. 5 PULL BOX			
08 f	"PD1"	10+18	95'	LT		NO. 7 PULL BOX, MOD			
08 g	"PD3"	17+97	40'	RT		NO. 5 PULL BOX, MOD			
08 h	"PD3"	20+44	28'	LT	X	NO. 5 PULL BOX			
08 i	"PD3"	20+38	40'	RT		NO. 5 PULL BOX, MOD			
08 j	"PD3"	17+98	20'	LT	X	NO. 5 PULL BOX			
08 l	"XS"	691+48	229'	LT		NO. 7 PULL BOX, MOD			
08 m	"XS"	690+46	234'	LT		ITS VAULT			
08 n	"PD1"	10+18	95'	LT		ITS VAULT			
08 o	"PD3"	18+00	13'	RT	X	NO. 7 PULL BOX			
08 p	"PD3"	20+43	5'	RT	X	NO. 7 PULL BOX			
08 q	"PD3"	22+92	57'	LT	X	NO. 7 PULL BOX			
08 r	"PD3"	22+97	40'	LT	X	NO. 7 PULL BOX			
08 s	"PD"	15+86	51'	LT	X	NO. 7 PULL BOX			
08 t	"PD"	16+82	52'	LT	X	NO. 7 PULL BOX			
08 u	"PD"	17+72	76'	LT	X	NO. 7 PULL BOX			
08 v	"XS"	692+08	141'	LT	X	NO. 7 PULL BOX			
08 w	"PD3"	21+49	25'	LT	X	NO. 7 PULL BOX			
08 x	"PD3"	19+49	25'	LT	X	NO. 7 PULL BOX			

PULL BOX SCHEDULE									
NO.	STATION	OFFSET	LT/RT	EX.	TYPE	LOCKING LID	BURIED	COMMENTS	
09 a	"PD1"	22+87	62'	LT		ITS VAULT			
09 b	"PD1"	22+87	56'	LT		NO. 7 PULL BOX, MOD			
09 c	"XS"	712+91	91'	LT		NO. 7 PULL BOX, MOD			
09 d	"XS"	712+30	47'	LT		NO. 5 PULL BOX, MOD			
09 e	"PD1"	22+80	35'	LT	X	NO. 7 PULL BOX			
09 m	"PD1"	22+87	59'	LT		ITS VAULT			
10 a	"XS"	724+84	81'	LT		ITS VAULT			
10 b	"XS"	724+84	75'	LT		NO. 7 PULL BOX, MOD			
10 m	"XS"	724+84	78'	LT		ITS VAULT			
11 a	"XS"	734+95	86'	LT		NO. 7 PULL BOX, MOD			
12 a	"XS1"	744+24	88'	LT		NO. 7 PULL BOX, MOD			
12 b	"XS1"	755+53	97'	LT		ITS VAULT			
12 c	"XS1"	755+53	92'	LT		NO. 7 PULL BOX, MOD			
12 m	"XS1"	755+53	94'	LT		ITS VAULT			
13 a	"XS1"	759+00	92'	LT		ITS VAULT			
13 b	"XS1"	759+00	86'	LT		NO. 7 PULL BOX, MOD			
13 c	"V1"	12+53	87'	LT		ITS VAULT			
13 d	"V1"	12+57	82'	LT		NO. 7 PULL BOX, MOD			
13 e	"XS1"	762+41	93'	LT		ITS VAULT			
13 f	"XS1"	762+41	86'	LT		NO. 7 PULL BOX, MOD			
13 g	"XS1"	762+46	42'	LT	X	NO. 7 PULL BOX			
13 h	"V1"	14+17	22'	RT	X	NO. 5 PULL BOX			
13 i	"V1"	16+77	24'	RT	X	NO. 5 PULL BOX			
13 j	"V1"	16+72	25'	LT		NO. 5 PULL BOX, MOD			
13 k	"V1"	13+54	27'	LT	X	NO. 7 PULL BOX			
13 l	"V1"	14+18	15'	LT	X	NO. 5 PULL BOX			
13 m	"XS1"	759+00	89'	LT		ITS VAULT			
13 n	"V1"	12+54	85'	LT		ITS VAULT			
14 a	"V1"	20+35	137'	LT		ITS VAULT			
14 b	"V1"	20+35	131'	LT		NO. 7 PULL BOX, MOD			
14 c	"V1"	20+20	58'	LT		NO. 7 PULL BOX, MOD			
14 d	"V1"	21+32	37'	LT		NO. 5 PULL BOX, MOD			
14 e	"V1"	20+06	26'	RT		NO. 7 PULL BOX, MOD			
14 f	"XS2"	782+38	113'	LT		NO. 7 PULL BOX, MOD			
14 m	"V1"	20+35	134'	LT		ITS VAULT			
15 a	"XS2"	790+10	119'	LT		ITS VAULT			
15 b	"XS2"	790+10	113'	LT		NO. 7 PULL BOX, MOD			
15 c	"XS2"	790+08	48'	LT	X	NO. 7 PULL BOX			
15 m	"XS2"	790+10	116'	LT		ITS VAULT			
16 a	"XS2"	801+74	119'	LT		ITS VAULT			
16 b	"XS2"	801+74	113'	LT		NO. 7 PULL BOX, MOD			
16 c	"XS2"	804+81	130'	LT		ITS VAULT			
16 d	"XS2"	804+83	124'	LT		NO. 7 PULL BOX, MOD			
16 m	"XS2"	801+74	116'	LT		ITS VAULT			
16 n	"XS2"	804+82	127'	LT		ITS VAULT			
17 a	"V3"	105+64	91'	LT	X	ITS VAULT			
17 b	"V3"	109+52	96'	LT		NO. 7 PULL BOX, MOD			
17 c	"V3"	118+18	99'	LT		NO. 7 PULL BOX, MOD			
17 d	"V3"	109+48	77'	RT	X	NO. 7 PULL BOX			
17 m	"V3"	105+64	98'	LT	X	ITS VAULT			

RAMP METER SCHEDULE														
NO.	STATION	OFFSET	LT/RT	TYPE	SIG. ARM		SIGNALS (VEH.)	LUMINAIRE		DEVICES	IN-POLE QTY'S		COMMENTS	
					ARM LEN.	SIGN		TYPE	ARM LEN.		LUM.	SIGNAL		
07 A	"XS"	673+99	57'	LT	35	25'	R10-28	1W2C	15'	LUMINAIRE (TYPE A) (SL)	1	135'	200'	

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS SCHEDULES

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS23

TRANSFORMER SCHEDULE									
TRANSFORMER LABEL/NAME	STATION	OFFSET	LT/RT	EX.	TYPE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	PREFORMED TRANSFORMER PAD	COMMENTS
TX 06A	"XS"	658+46	55'	LT	X	3 KVA	600	120	
TX 06B	"XS"	662+60	58'	LT	X	15 KVA	600	120	
TX 08A	"XS"	692+29	29'	LT	X	25 KVA	120	600	
TX 09A	"PD1"	22+78	46'	LT	X	3 KVA	600	120	
TX 13A	"XS1"	762+42	53'	LT		3 KVA	600	120	X
TX 14A	"V1"	19+97	29'	LT		3 KVA	600	120	X
TX 15A	"XS2"	790+02	57'	LT	X	15 KVA	600	120	
TX 17A	"V3"	109+62	86'	RT		15 KVA	120	600	X

POLE SCHEDULE																							
POLE						DEVICES						RRFB				IN-POLE QUANTITIES				COMMENTS			
NO.	STATION	OFFSET	LT/RT	TYPE	SAFETY BASE	EX.	EX.	CCTV (FIXED)	CCTV (PTZ)	CCTV LOWERING DEVICE	1W1C FLASHER	RWIS	RADAR DETECTOR	EX.	QUAD	DUAL MNT.	TYPE	EX.	#8		CCTV ETHERNET CABLE	RDS ETHERNET CABLE	WWDS ETHERNET CABLE
04	A	"RE"	28+17	25'	LT	ITS 30'																	
05	A	"XS"	653+01	47'	LT	ITS 30'					1												RELOCATE EXISTING POLE TO NEW LOCATION
06	B	"XS"	658+43	46'	LT	ITS 30'						1	1										
07	B	"XS"	674+69	70'	LT	ITS 30'			1												30'		
07	C	"XS"	673+36	56'	LT	ITS 30'							1									30'	
08	A	"PD1"	13+44	33'	LT	ITS 30'					1			X	4	X	WWD GRP. A (AC)		100'				RELOCATE EXISTING POLE TO NEW LOCATION
08	B	"PD3"	18+08	10'	LT	ITS 30'					1			X	2	X	WWD GRP. B (AC)		100'				RELOCATE EXISTING POLE TO NEW LOCATION
08	C	"PD3"	18+06	38'	RT	ITS 30'					1			X	2	X	WWD GRP. B (AC)		100'				RELOCATE EXISTING POLE TO NEW LOCATION
08	D	"PD3"	20+50	10'	LT	ITS 30'					1			X	2	X	WWD GRP. A (AC)		100'				RELOCATE EXISTING POLE TO NEW LOCATION
08	E	"PD3"	20+48	38'	RT	ITS 30'					1			X	2	X	WWD GRP. A (AC)		100'				RELOCATE EXISTING POLE TO NEW LOCATION
08	F	"PD4"	23+77	9'	RT	STEEL POST 20'					1												
08	G	"PD4"	23+75	28'	LT	STEEL POST 20'	X				1												
08	H	"PD3"	21+37	26'	LT	ITS 30'								X			WWD W/ ACTUATION (AC)	X				120'	
09	A	"XS"	712+31	39'	LT	-					1												RELOCATE EXISTING POLE TO NEW LOCATION
13	A	"XS1"	758+30	76'	LT	-						1											REMOVE THE POLE AND DEVICES ON
13	B	"XS1"	762+46	42'	LT	ITS 30'							1									30'	
13	C	"V1"	16+77	15'	LT	ITS 30'					1			X	4.5	X	WWD GRP. B (AC)		100'				RELOCATE EXISTING POLE TO NEW LOCATION
13	D	"XS1"	769+33	36'	RT	ITS 80'			1	1													REMOVE THE POLE AND DEVICES ON
13	E	"V1"	16+69	22'	RT	STEEL POST 20'									4.5	X	WWD GRP. B (AC)		100'				
13	F	"V1"	14+05	23'	RT	STEEL POST 30'			2					X	4.5	X	WWD GRP. A (AC)		150'	60'		120'	
13	G	"V1"	14+15	14'	LT	STEEL POST 20'								X	4.5	X	WWD GRP. A (AC)		100'				
14	A	"V1"	20+20	25'	RT	ITS 80'				1	1										80'		
14	B	"V1"	21+33	22'	LT	ITS 30'							1									30'	

CABINET SCHEDULE														
CABINET EQUIPMENT														
CABINET LABEL/NAME	STATION	OFFSET	LT/RT	EX.	TYPE	EX.	TRAFFIC ACTUATED CONTROLLER	CCTV	DMS/TRAVEL TIME SIGN	FHES	RWIS	FLASHING BEACON CONTROLLER	MICROWAVE/RADAR DETECTOR CONTROLLER	COMMENTS
CAB 03A	"RE"	15+83	31'	LT	X	ITS	X	1		1			1	
CAB 06A	"XS"	658+41	55'	LT	X	ITS	X				1		1	
CAB 06B	"XS"	662+70	58'	LT	X	ITS	X		1				1	
CAB 07A	"XS"	673+68	70'	LT		ITS		1	1	1		1	1	INSTALL NEW BATTERY BACKUP SYSTEM
CAB 08A	"PD1"	12+71	75'	LT	X	ITS	X					1	1	
CAB 08B	"PD3"	21+49	25'	LT	X	ITS	X					1	1	
CAB 09A	"PD1"	22+72	46'	LT	X	ITS	X			1		1	1	
CAB 13A	"XS1"	758+25	62'	LT	X	ITS	X							
CAB 13B	"V1"	14+15	39'	LT	X	ITS	X					1	1	
CAB 13C	"XS1"	762+32	53'	LT		ITS				1			1	INSTALL NEW BATTERY BACKUP SYSTEM
CAB 13D	"XS1"	769+79	45'	RT	X	ITS	X		1					
CAB 14A	"V1"	19+87	24'	RT		ITS		1		1			1	INSTALL NEW BATTERY BACKUP SYSTEM
CAB 15A	"XS2"	790+09	58'	LT		ITS	X		1	1				

DMS SCHEDULE							
DMS LABEL/NAME	STATION	OFFSET	LT/RT	EX.	TYPE	CABINET LABEL/NAME	COMMENTS
DMS 1	"XS"	662+52	37'	LT	X	TYPE 1	CAB 06B
DMS 2	"XS2"	789+93	43'	LT	X	TYPE 1	CAB 15A

LOOP DETECTOR SCHEDULE						
PHASE/CHANNEL	EX.	# OF LOOPS	MOVEMENT	PREFORMED	LOOP OPERATION	COMMENTS
4	A	1	SB THRU		"PRESENCE/COUNT" LOOP	
4	B	2	SB THRU		"PRESENCE" LOOP	
4	C	1	SB THRU		"PRESENCE" LOOP	
4	D	1	SB THRU		"PRESENCE" LOOP	

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS SCHEDULES

RWIS SCHEDULE													
RWIS LABEL/NAME	STATION	OFFSET	LT/RT	EX.	RWIS EQUIPMENT								COMMENTS
					EX.	WIND SPEED & DIRECTION	REMOTE ROAD SENSOR	EMBEDDED ROAD SENSOR	RAIN DETECTOR	HUMIDITY AND TEMPERATURE	PRESSURE	MULTIBAND ANTENNA	
RWIS 06A	"XS"	658+43	46'	LT	X		1		2	1	1	1	

SERVICE PEDESTAL LOCATION SCHEDULE										
SERVICE PEDESTAL LABEL/NAME	STATION	OFFSET	LT/RT	TYPE	MODIFY EXISTING SERVICE	EX.	OWNERSHIP	ADDRESS	COMMENTS	
SP2	"XS1"	691+24	289'	LT	UNDERGROUND	X	X	NDOT		
SP3	"PD"	17+78	76'	LT	UNDERGROUND	X	X	NDOT		
SP4	"V3"	109+32	77'	RT	UNDERGROUND		X	NDOT		REPLACE EXISTING PEDESTAL WITH NEW PEDESTAL

SERVICE PANEL No.: SP2											
LOCATION: "XS1" 691+24, 289' LT					PHASE: 1 PHASE						
VOLTAGE: 240					WIRING METHOD: 120/240V 3-WIRE (1PH)						
AMPACITY: 400					ENCLOSURE TYPE: NEMA 3R						
MIN. INT. RATING: 10kA					MAIN UTILITY CONNECTION: MAIN CIRCUIT BREAKER						
BREAKER SPACE: 24					NEW/EXIST. SERVICE PED.: EXISTING						
					OWNERSHIP: NDOT						
(MLO)=MAIN LUGS ONLY, (MCB)=MAIN CIRCUIT BREAKER, (N)=NEW, (E)=EXISTING, (PH)=PHASE, (X)=POLE BKR SPACE: ALL LIGHTING LOADS SHALL HAVE A 1.25 DEMAND FACTOR APPLIED											
DESCRIPTION	CKT#	LOAD (VA)	BKR	BKR SPACE	PHASE	BKR SPACE	BKR	LOAD (VA)	CKT#	DESCRIPTION	
MAIN (MCB)					----	----				MAIN (MCB)	
NDOT FIBER HUT	1	19200	200/2	1	26700	----	2	100/2	7500	2	25KVA TRANSFORMER
X	3	19200	X	3	26700	----	4	X	7500	4	X
CAB 07A	5	1500	20	5	1500	----	6	20		6	SPARE
CAB 08A	7	1500	20	7	1500	----	8	20		8	SPARE
SPACE	9			9	0	----	10			10	SPACE
SPACE	11			11	0	----	12			12	SPACE
SPACE	13			13	0	----	14			14	SPACE
SPACE	15			15	0	----	16			16	SPACE
SPACE	17			17	0	----	18			18	SPACE
SPACE	19			19	0	----	20			20	SPACE
SPACE	21			21	0	----	22			22	SPACE
SPACE	23			23	0	----	24			24	SPACE
		28200	28200	VA							
		56400		Ttl VA							
		235		AMPS							
		59%		% USED							
CONTACTOR #	RATING	POLES	CKT#S	CONTROL							

NOTES:
INCLUDE ONE AUTO-TEST BYPASS SWITCH FOR PHOTOCELL
"X" INDICATES SPACE TAKEN BY A 2 OR 3 POLE BREAKER

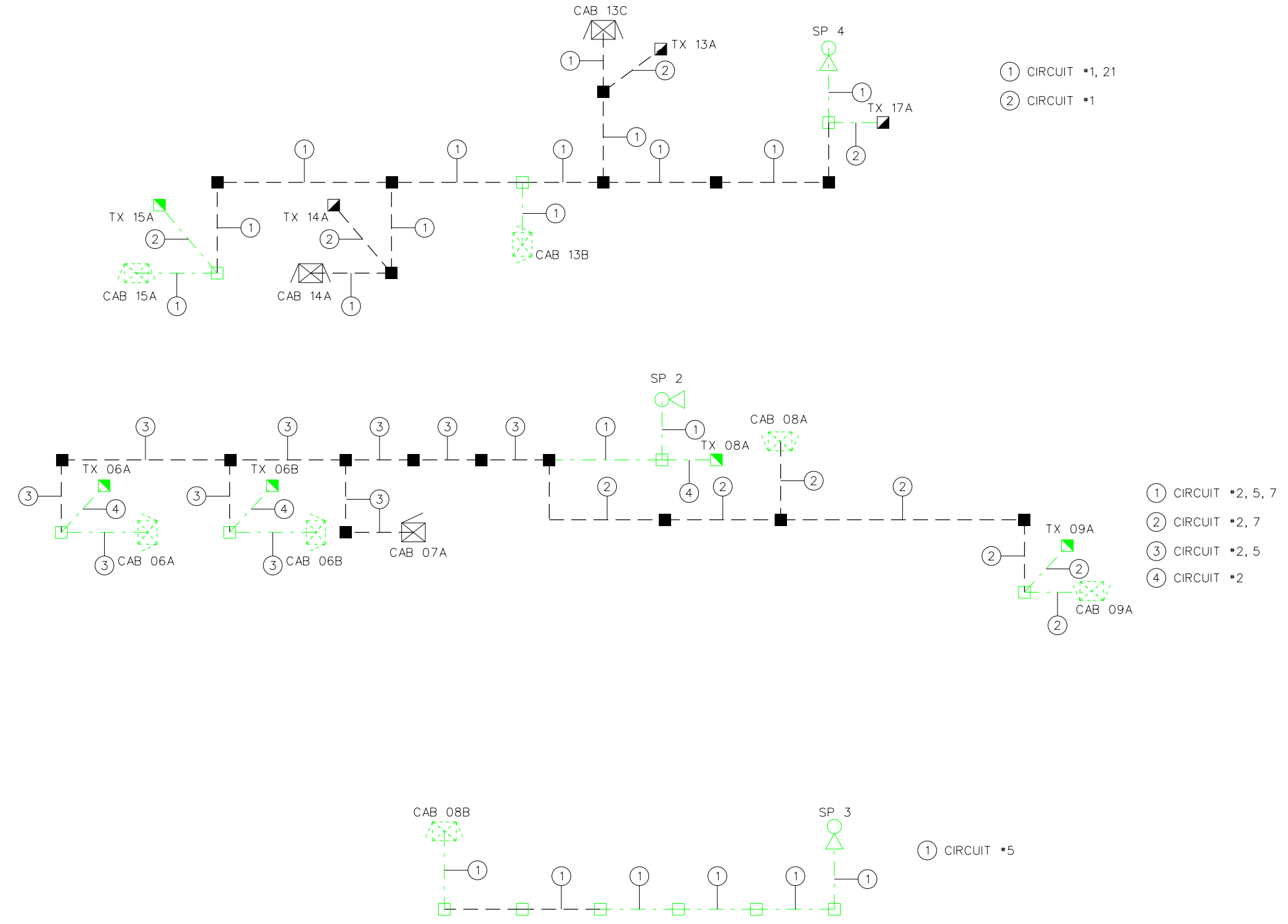
SERVICE PANEL No.: SP3										
LOCATION: "PD" 17+78, 76' LT					PHASE: 1 PHASE					
VOLTAGE: 240					WIRING METHOD: 120/240V 3-WIRE (1PH)					
AMPACITY: 100					ENCLOSURE TYPE: NEMA 3R					
MIN. INT. RATING: 10kA					MAIN UTILITY CONNECTION: MAIN CIRCUIT BREAKER					
BREAKER SPACE: -					NEW/EXIST. SERVICE PED.: EXISTING					
					OWNERSHIP: NDOT					
(MLO)=MAIN LUGS ONLY, (MCB)=MAIN CIRCUIT BREAKER, (N)=NEW, (E)=EXISTING, (PH)=PHASE, (X)=POLE BKR SPACE: ALL LIGHTING LOADS SHALL HAVE A 1.25 DEMAND FACTOR APPLIED										
DESCRIPTION	CKT#	LOAD (VA)	BKR	BKR SPACE	PHASE	BKR SPACE	BKR	LOAD (VA)	CKT#	DESCRIPTION
MAIN (MCB)					----	----				MAIN (MCB)
EXISTING LOAD	1	840	60/2	1	840	----	2	20	2	SPARE
X	3	840	X	3	840	----	4	20	4	SPARE
WWFS	5	600	20	5	600	----	6	20	6	SPARE
SPACE	7		20	7	0	----	8	20	8	SPARE
SPACE	9		20	9	0	----	10		10	SPACE
SPACE	11			11	0	----	12		12	SPACE
SPACE	13			13	0	----	14		14	SPACE
SPACE	15			15	0	----	16		16	SPACE
SPACE	17			17	0	----	18		18	SPACE
SPACE	19			19	0	----	20		20	SPACE
		1440	840	VA						
		2280		Ttl VA						
		10		AMPS						
		10%		% USED						
CONTACTOR #	RATING	POLES	CKT#S	CONTROL						

NOTES:
INCLUDE ONE AUTO-TEST BYPASS SWITCH FOR PHOTOCELL
"X" INDICATES SPACE TAKEN BY A 2 OR 3 POLE BREAKER

SERVICE PANEL No.: SP4					PHASE: 1 PHASE						
LOCATION: VIRGINIA ST/PANTHER VALLEY					WIRING METHOD: 120/240V 3-WIRE (1PH)						
VOLTAGE: 240					ENCLOSURE TYPE: NEMA 3R						
AMPACITY: 200					MAIN UTILITY CONNECTION: MAIN CIRCUIT BREAKER						
MIN. INT. RATING: 22kA					NEW/EXIST. SERVICE PED: NEW						
BREAKER SPACE: 24					OWNERSHIP: NDOT						
<small>(MLO)=MAIN LUGS ONLY, (MCB)=MAIN CIRCUIT BREAKER, (N)=NEW, (E)=EXISTING, (PH)=PHASE, (X)=POLE BKR SPACE: ALL LIGHTING LOADS SHALL HAVE A 1.25 DEMAND FACTOR APPLIED</small>											
DESCRIPTION	CKT#	LOAD (VA)	BKR	BKR SPACE	PHASE		BKR SPACE	BKR	LOAD (VA)	CKT#	DESCRIPTION
					A	B					
MAIN (MCB)					----	----					MAIN (MCB)
TRANSFORMER (TX-17A)	1	7800	80/2	1	7900	----	2	15	100	2	PHOTOELECTRIC RECEPTACLE
X	X	7800	X	3	7980	----	4	20	180	4	GFCI RECEPTACLE
LIGHTING - VIRGINIA ST. SOUTHBOUND ONRAMP	5	1080	20/2	5	1380	----	6	20/2	300	6	LANDSCAPE LIGHTING
X	X	1080	X	7	1080	----	8	X		X	X
LIGHTING - NORTHBOUND OFFRAMP	9	900	20/2	9	1500	----	10	60/2	600	6	WRONG WAY DRIVER SYSTEM
X	X	900	X	11	900	----	12	X		X	X
LIGHTING - NORTHBOUND OFFRAMP SPLIT	13	1260	20/2	13	1560	----	14	20/2	300	14	LIGHTING - PANTHER VALLEY UNDERDECK SOUTH
X	X	1260	X	15	1560	----	16	X	300	X	X
LIGHTING - VIRGINIA ST. SOUTHBOUND OFFRAMP	17	720	20	17	1020	----	18	20/2	300	18	LIGHTING - PANTHER VALLEY UNDERDECK NORTH
X	X	720	X	19	1020	----	20	X	300	X	X
CAB 13B	21	1500	30	1	1500	----	22			22	SPACE
SPACE	23			3	----	0	24			24	SPACE
					14860	12540	VA				
					27400	Ttl VA					
					114	AMPS					
					57%	% USED					
CONTACTOR #		RATING		POLES		CKT#S		CONTROL			
C1		20		8		1,5,9,13		PHOTOCELL			
C2		20		8		14,17,18		PHOTOCELL			
SPACE								NO CONTROLS - FOR FUTURE			

NOTES:
INCLUDE ONE AUTO-TEST BYPASS SWITCH FOR PHOTOCELL
"X" INDICATES SPACE TAKEN BY A 2 OR 3 POLE BREAKER

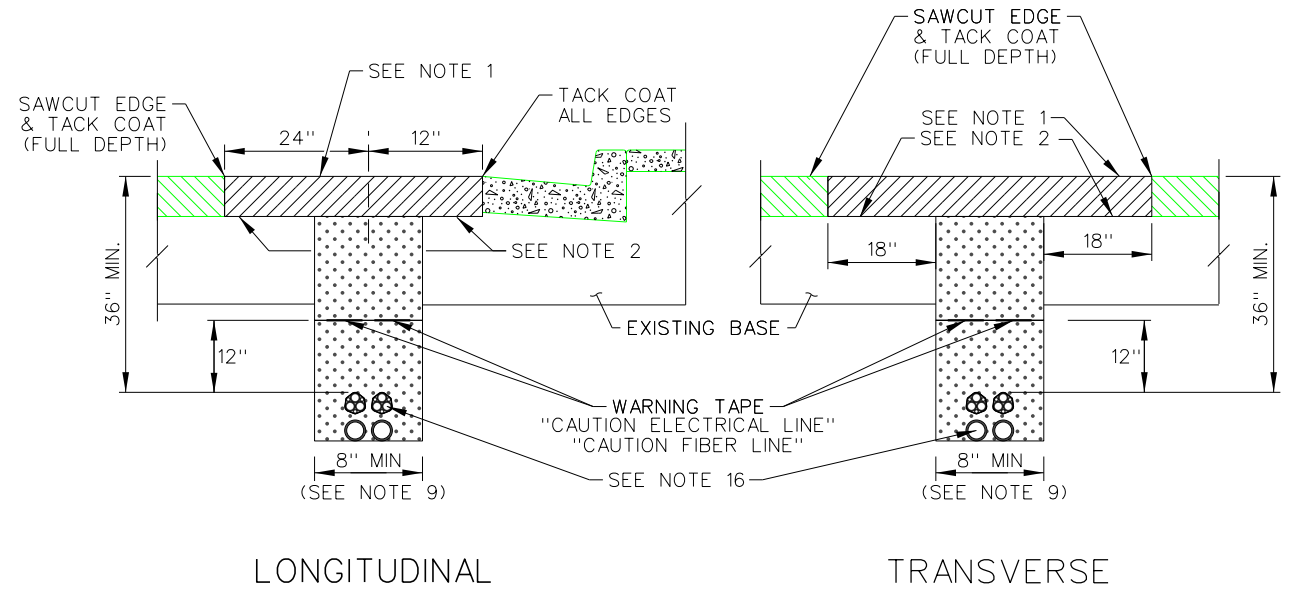
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS25A



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

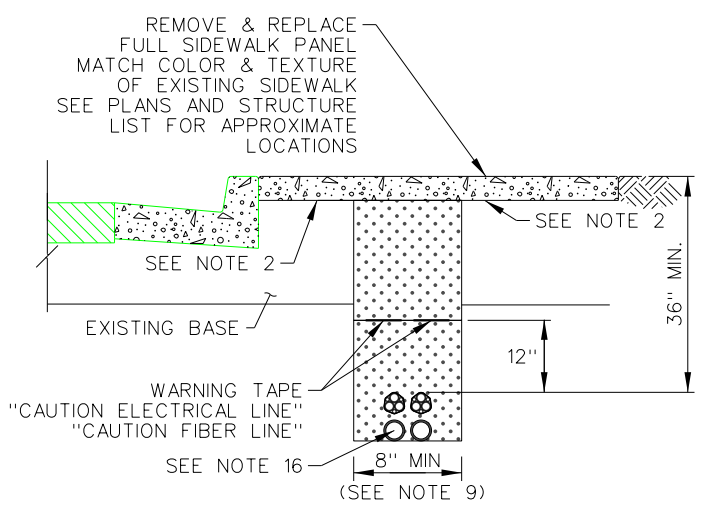
ITS ONE-LINE
DIAGRAMS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS26

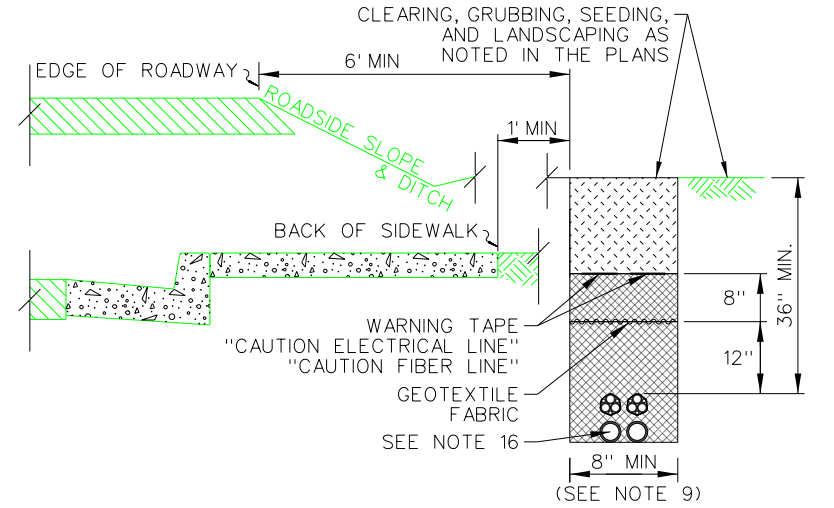


LONGITUDINAL
TRENCHING IN ASPHALT

TRANSVERSE



TRENCHING IN SIDEWALKS



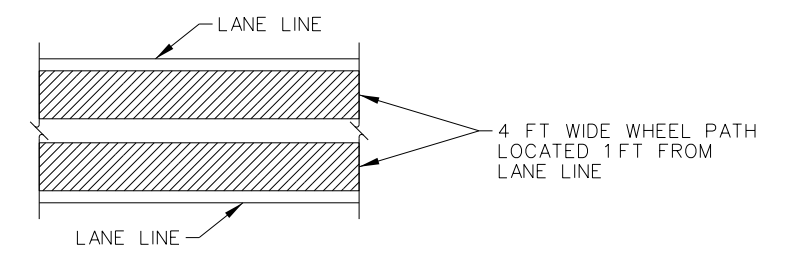
TRENCHING IN NATIVE MATERIAL

LEGEND:

- LIMITS OF REMOVAL AND REPLACEMENT OF SURFACE
- CLASS A SLURRY CEMENT (SEE NOTE 10)
- NATIVE MATERIAL (SEE NOTE 12)
- SAND BEDDING (SEE NOTE 11)
- EXISTING PAVEMENT
- NATIVE SOIL/EXISTING LANDSCAPING
- CURB, GUTTER, & SIDEWALK
- LIMITS OF REMOVAL & REPLACEMENT OF SIDEWALK

NOTES:

1. REMOVE EXISTING SURFACE MATERIAL AND REPLACE WITH MATERIALS AS SHOWN IN THE SUMMARY OF BASE AND SURFACE QUANTITIES. CONSTRUCTION BELOW THE EXCAVATED SURFACE SHALL BE INCLUDED IN THE LINEAR CONDUIT BID ITEMS.
2. RECOMPACT EXISTING BASE MATERIAL AROUND TRENCH TO MEET COMPACTION REQUIREMENTS FOR THAT MATERIAL TYPE AND LOCATION.
3. SEE PLAN SHEETS FOR KEY-IN DETAIL (IF NEEDED).
4. LONGITUDINAL TRENCHING IN SHOULDER: IF SHOULDER IS 4 FEET WIDE OR LESS, REMOVE ALL SURFACE MATERIAL FROM THE EDGE OF OIL TO SHOULDER STRIPE AND REPLACE OR AS DIRECTED BY THE ENGINEER (SEE NOTE 1).
5. IF PAVEMENT SAW CUT IS WITHIN 2 FEET OF AN EXISTING PAVEMENT EDGE OR EXISTING PAVEMENT PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION OR AS DIRECTED BY THE ENGINEER (SEE NOTE 1).
6. SAW CUT EDGES FOR TRENCH SHALL NOT FALL WITHIN WHEEL PATH (SEE DETAIL "A") OR AS DIRECTED BY THE ENGINEER.
7. ENGINEER MAY REQUIRE WIDER PATCH SECTIONS OR OTHERWISE ALTER THE REQUIREMENTS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF LOOP DETECTORS, ADJUSTMENTS OF UTILITIES AND SURVEY MONUMENTS TO GRADE, AND INSTALLATION OF TEMPORARY PAVEMENT MARKINGS.
9. TRENCH WIDTH VARIES BASED ON NUMBER OF CONDUITS, CONFIGURATION AND COMPACTION REQUIREMENTS.
10. SLURRY CEMENT BACKFILL SHALL CONFORM TO THE REQUIREMENTS IN SUBSECTION 207.02.02 SLURRY CEMENT BACKFILL OF THE NDOT STANDARD SPECIFICATIONS.
11. SAND BEDDING OR APPROVED MATERIAL SHALL CONFORM TO GRADATION REQUIREMENTS IN SUBSECTION 623.02.14 OF THE CONTRACT SPECIAL PROVISIONS.
12. NATIVE MATERIAL SHALL NOT CONTAIN ROCKS LARGER THAN 3 INCHES.
13. CONDUIT COUPLINGS SHALL BE STAGGERED WITH NO COUPLING TOUCHING ANOTHER COUPLING.
14. USE CONDUIT SPACERS OR OTHER APPROVED METHOD TO PREVENT CONDUIT BRAIDING. SPACERS ARE NOT REQUIRED IF CONTRACTOR CAN ENSURE THERE IS NO CONDUIT BRAIDING PRIOR TO OR DURING BACKFILL.
15. RETURN DISTURBED AREA TO MATCH EXISTING GRADE.
16. CONDUITS AND CONDUIT CONFIGURATION SHOWN IN THIS DETAIL ARE FOR GRAPHICAL PURPOSES ONLY. SEE PLANS, SCHEDULES AND SPECIFICATIONS FOR CONDUIT QUANTITIES, SIZES, MATERIALS, AND TYPES.
17. IF INSTALLING UNDERGROUND ELECTRICAL FACILITIES OR SUPPLIES, REFER TO NEVADA ADMINISTRATIVE CODE (NAC) 408.447 AND 408.453.

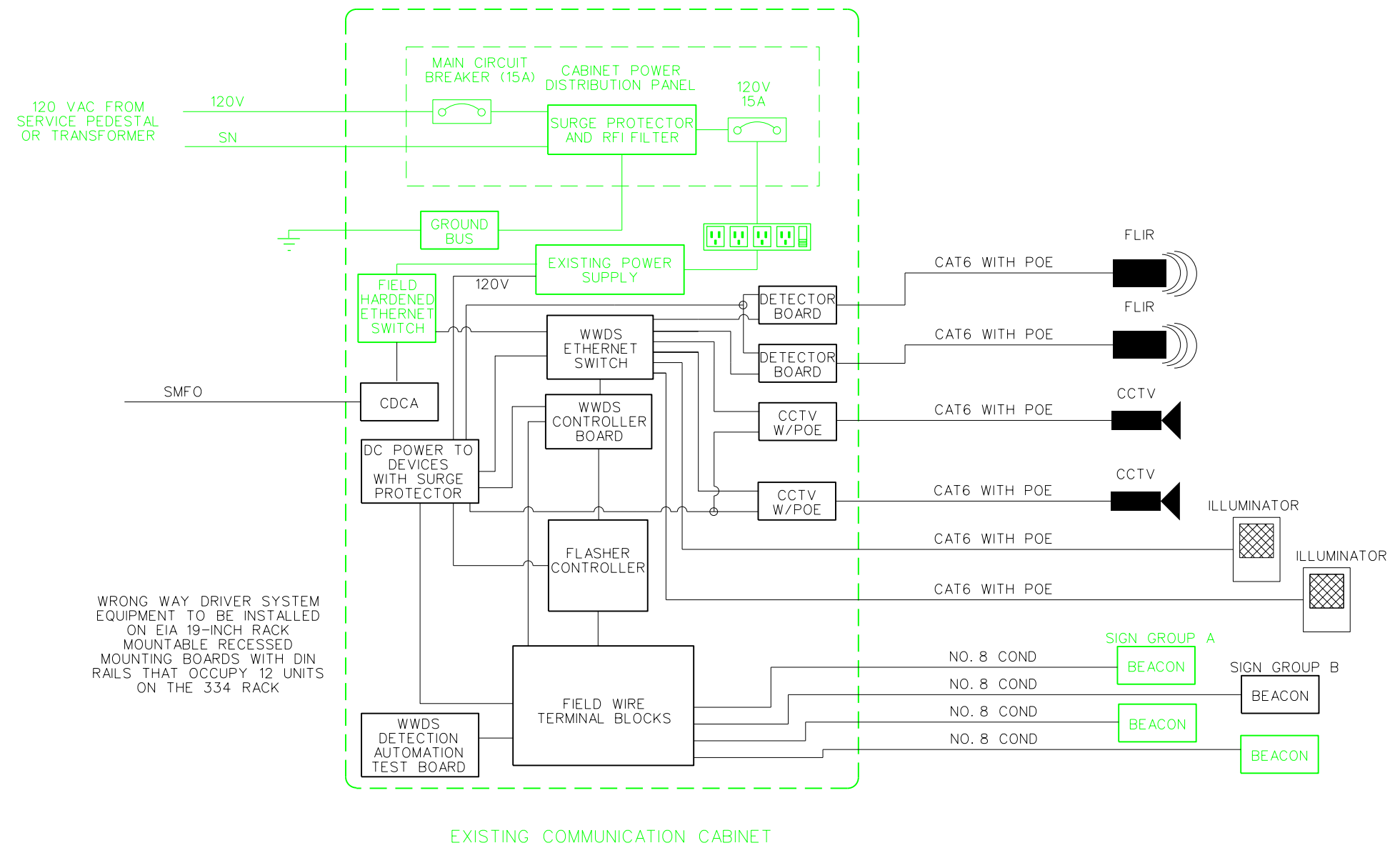


DETAIL "A"

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**SIGNALS, LIGHTING,
& ITS CONDUIT
TRENCH DETAIL**

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS27



WRONG WAY DRIVER SYSTEM EQUIPMENT TO BE INSTALLED ON EIA 19-INCH RACK MOUNTABLE RECESSED MOUNTING BOARDS WITH DIN RAILS THAT OCCUPY 12 UNITS ON THE 334 RACK

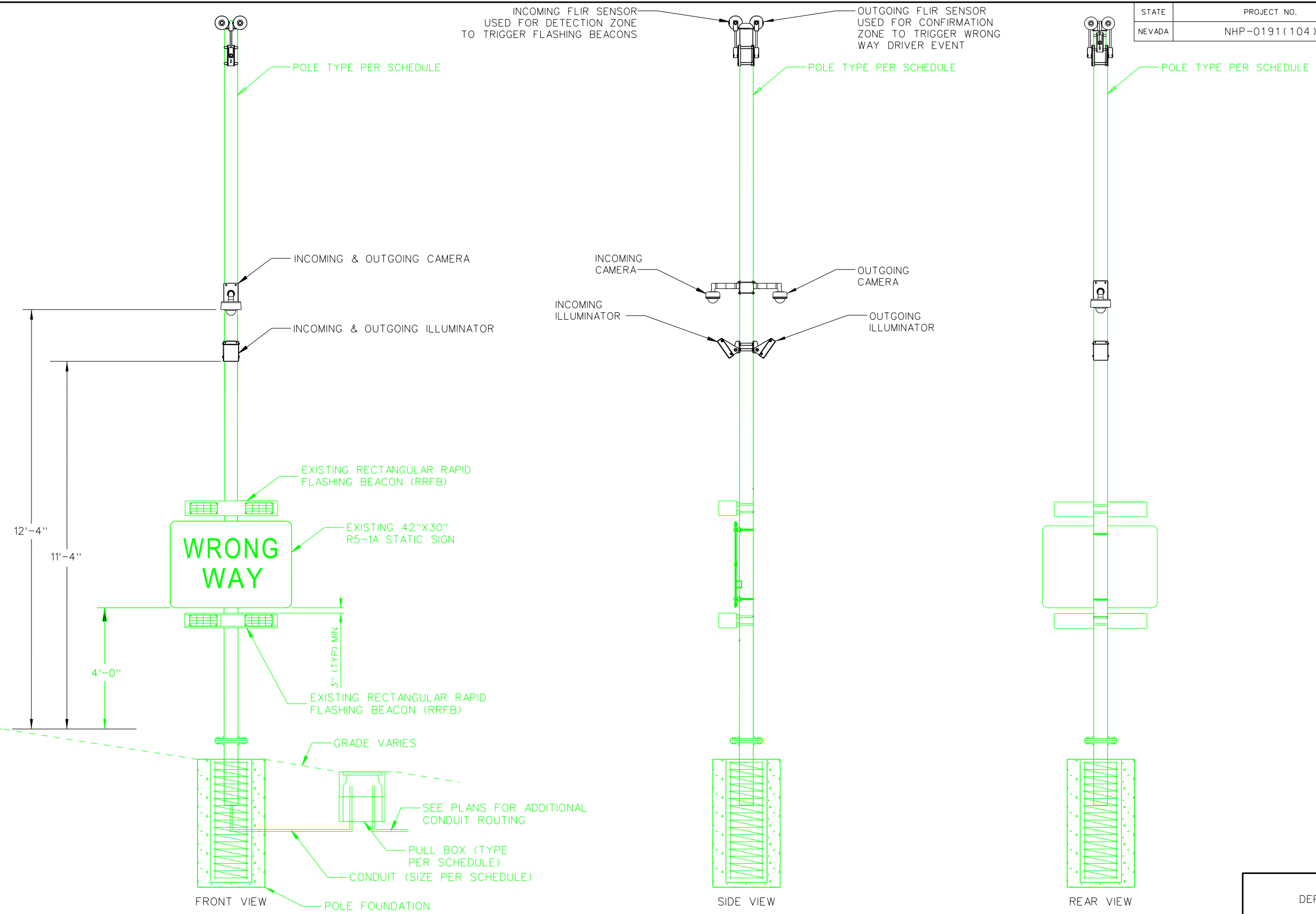
WRONG WAY DRIVER SYSTEM BLOCK DIAGRAM

US-395 SB VIRGINIA OFF RAMP

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

CABINET 13B BLOCK DIAGRAM

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS27A

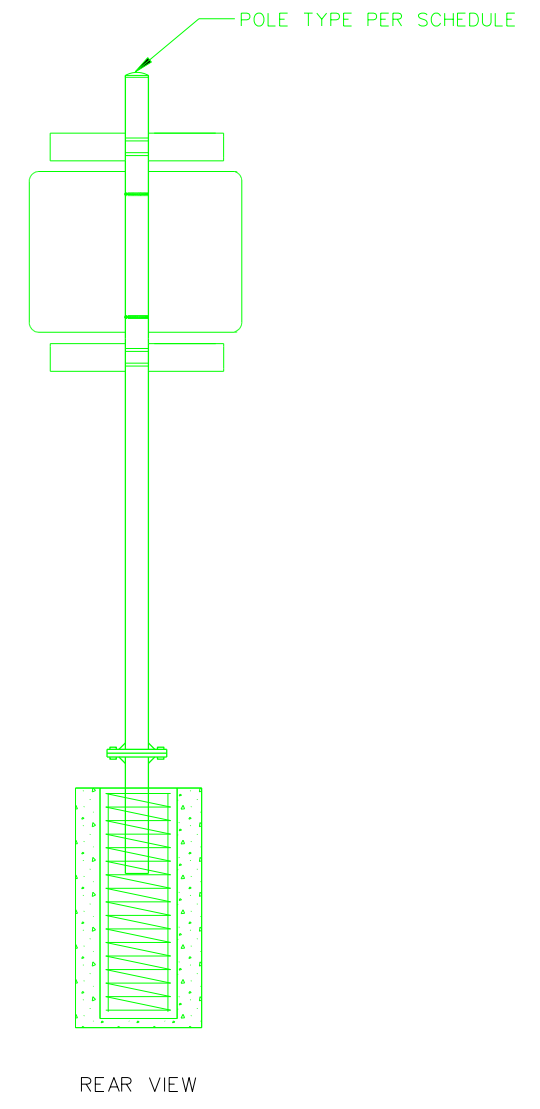
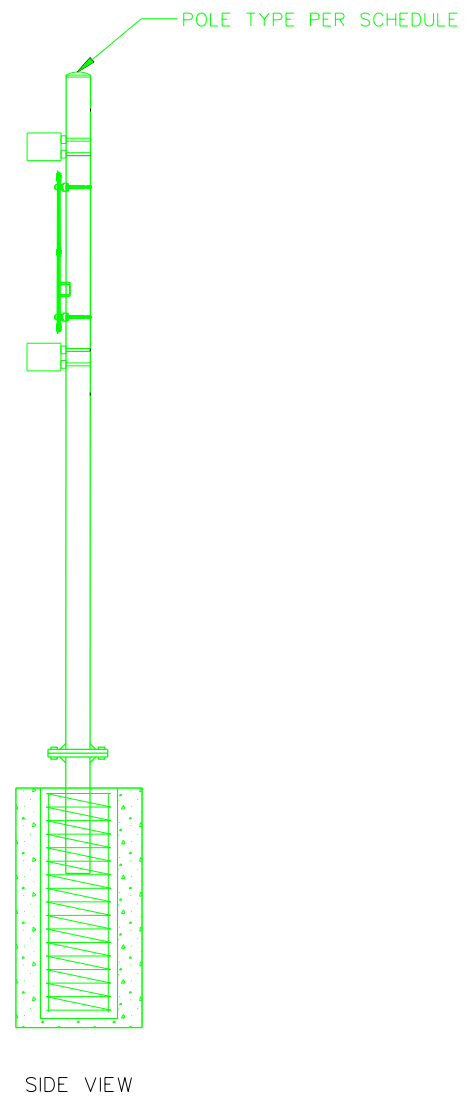
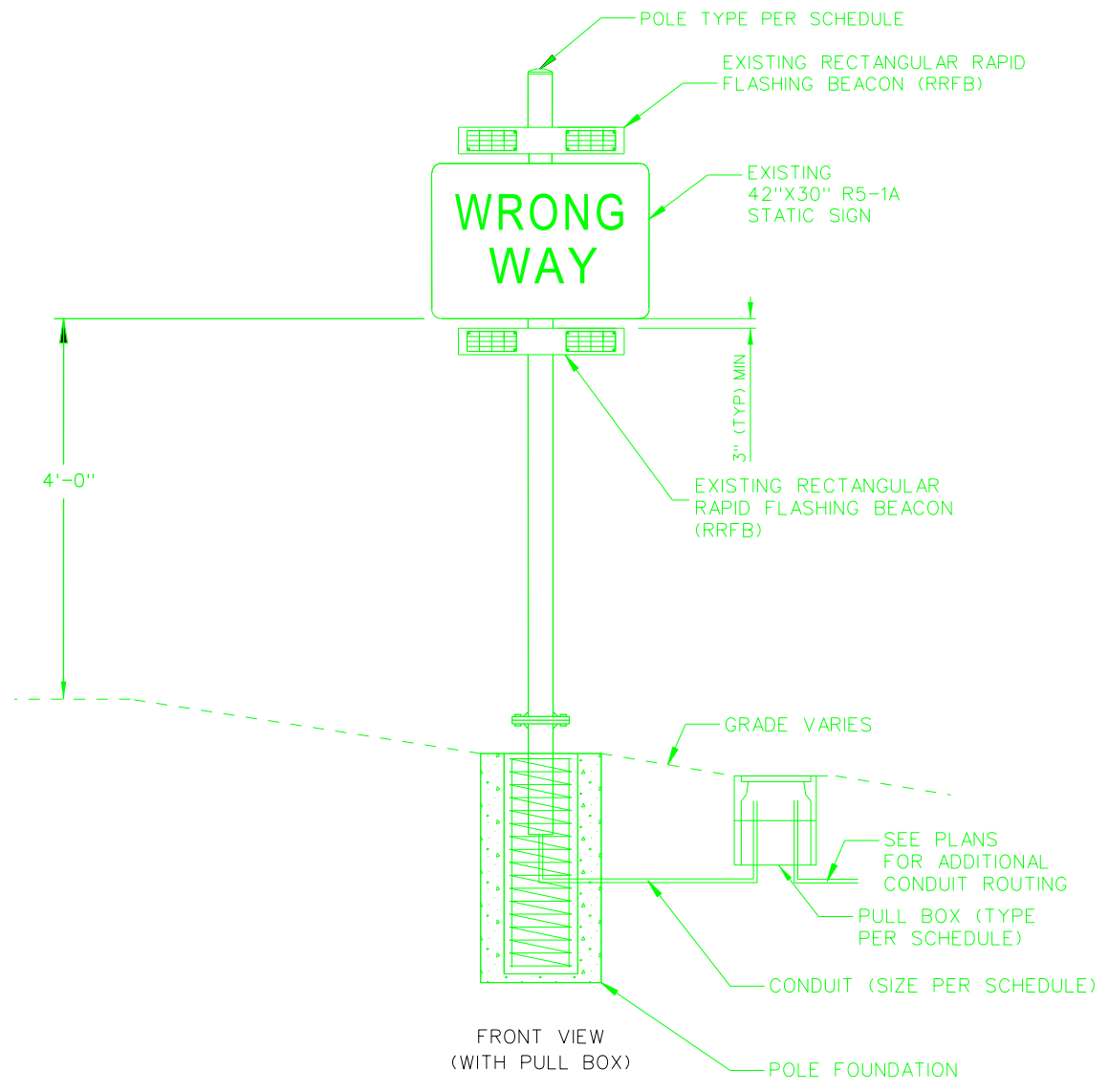


- NOTE:
1. WARNING BEACONS SHALL FLASH ALTERNATELY WHEN ACTIVATED.
 2. INCOMING AND OUTGOING FLIR SENSORS SHALL BE PAID FOR UNDER BID ITEM 623 3035, "CCTV CAMERA (DETECTABLE)", EACH.
 3. INCOMING AND OUTGOING CAMERAS SHALL BE PAID FOR UNDER BID ITEM 623 1264, "CCTV CAMERA (FIXED)", EACH.
 4. INCOMING AND OUTGOING ILLUMINATORS SHALL BE PAID FOR UNDER BID ITEM 623 1264, "CCTV CAMERA (FIXED)", EACH.

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**WRONG WAY DRIVER
GROUP A POLE 13F
SPECIAL DETAIL**

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS27B

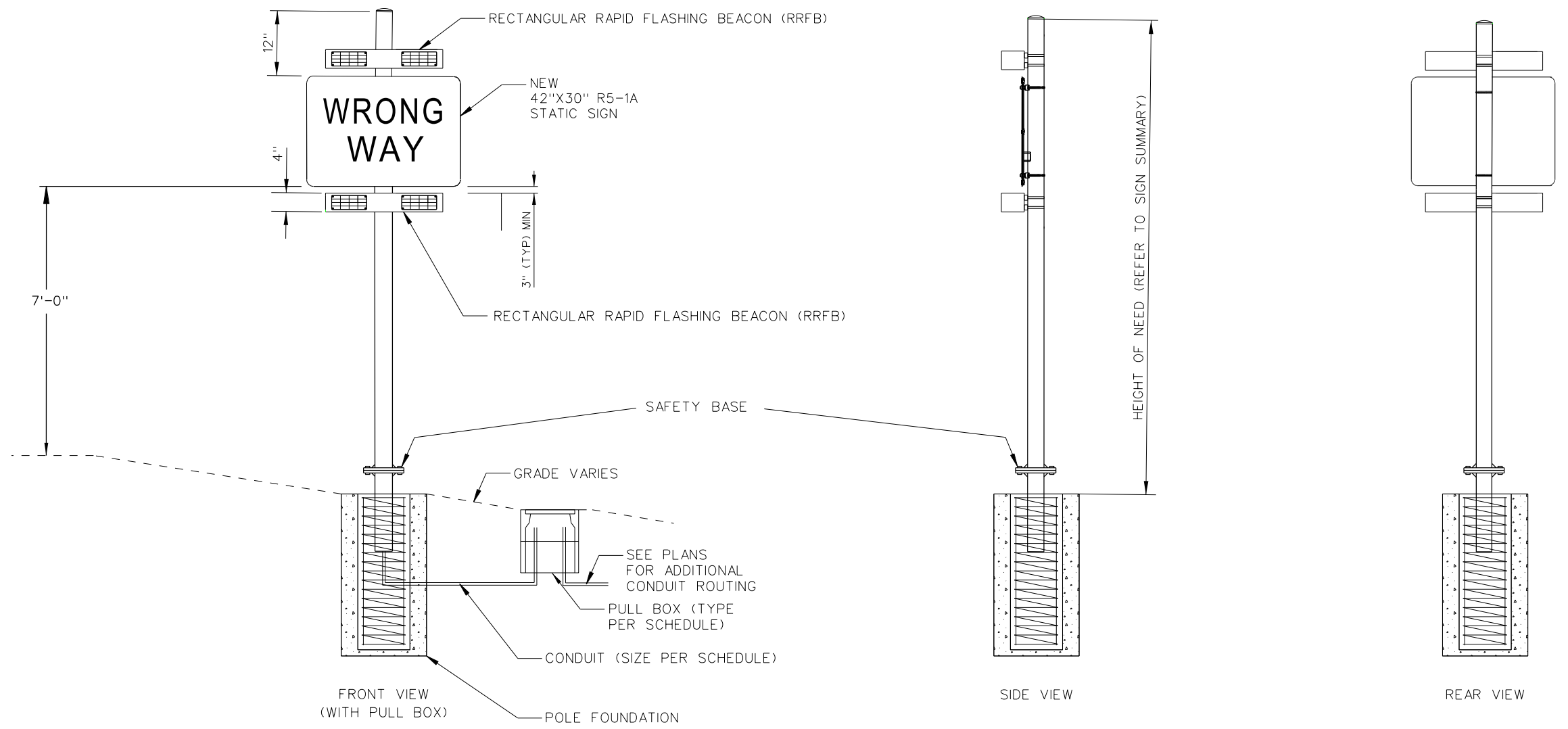


NOTE:
1. WARNING BEACONS SHALL FLASH ALTERNATELY WHEN ACTIVATED.

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**WRONG WAY DRIVER
GROUP A POLE 13G
SPECIAL DETAIL**

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS27C



- NOTE:
1. WARNING BEACONS SHALL FLASH ALTERNATELY WHEN ACTIVATED.
 2. RECTANGULAR RAPID FLASHING BEACON (RRFB) SHALL BE PAID FOR UNDER BID ITEM 623 3040, "RECTANGULAR RAPID FLASHING BEACON", EACH.

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

WRONG WAY DRIVER
GROUP B POLE 13E
SPECIAL DETAILS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS27D

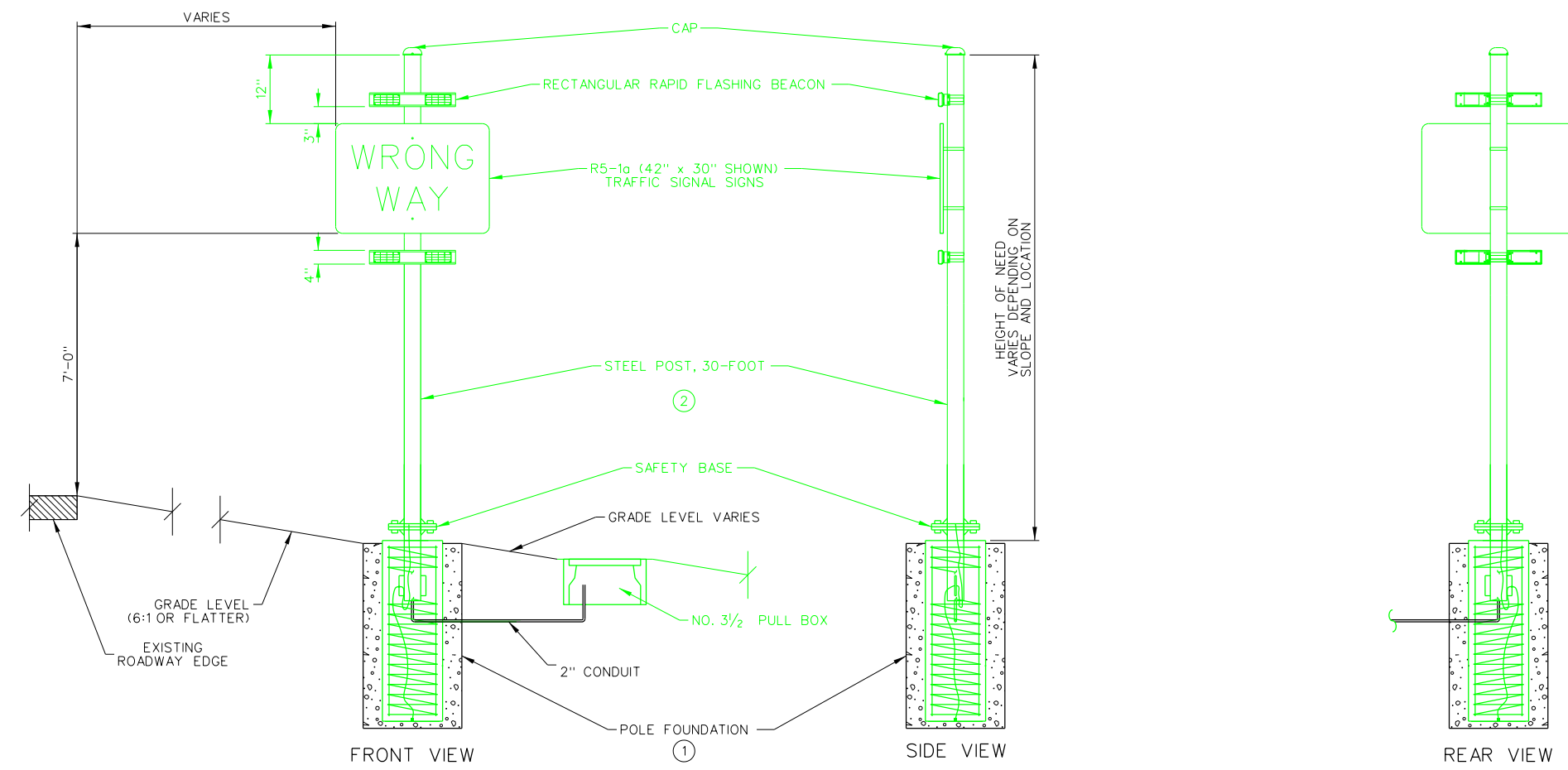
AC POWER ASSEMBLY

NOTES:

- SEE SHEET TRS-1 OF 2020 NDOT STANDARD PLANS FOR HORIZONTAL CLEARANCE.
- FOR SIGN INSTALLATION LOCATIONS, SEE PLAN SHEETS.
- WARNING BEACONS SHALL FLASH ALTERNATELY WHEN ACTIVATED.
- INSTALL EXISTING POLE AT FINISHED GRADE. SHALL BE PAID FOR UNDER BID ITEM 623 1441, "REMOVE AND RESET STEEL POLE", EACH.

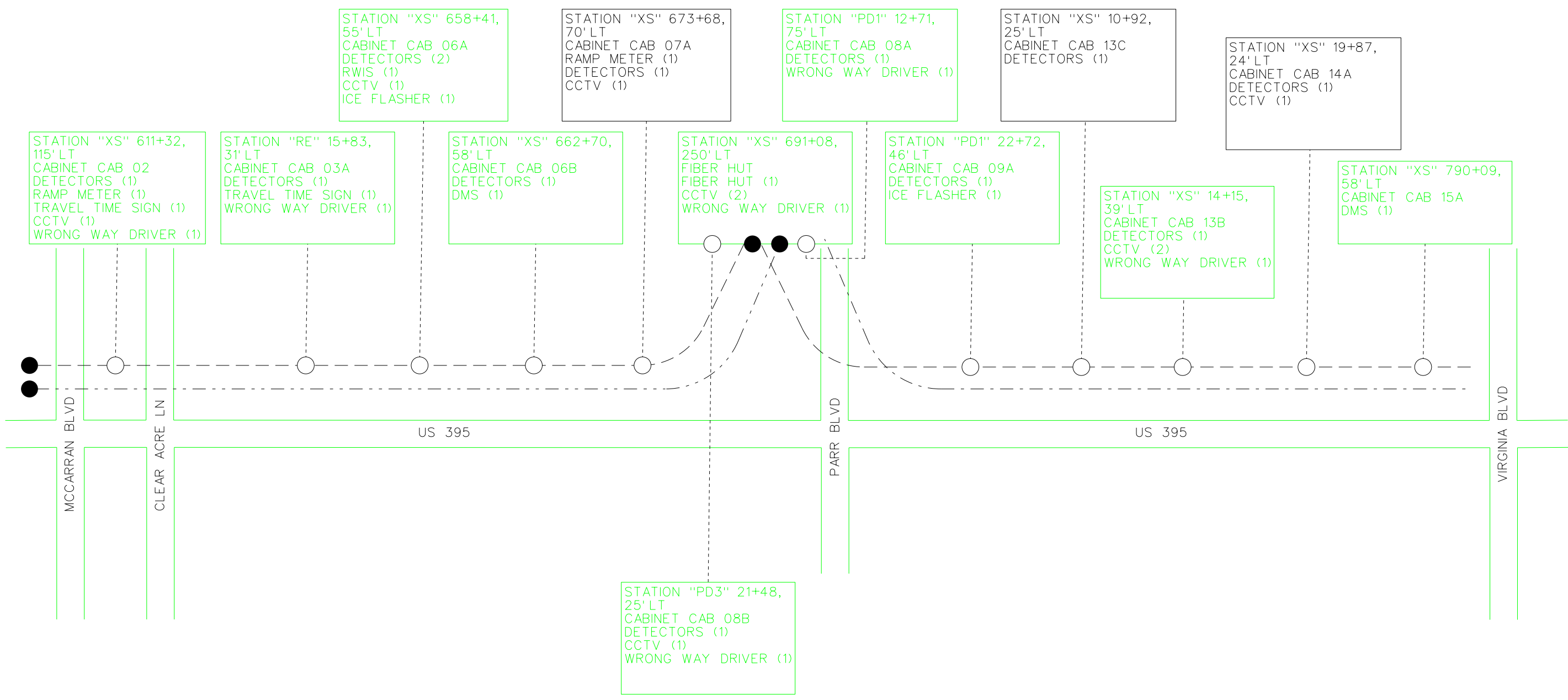
① SEE SHEET TG-18 OF 2020 NDOT STANDARD PLANS FOR POLE FOUNDATION.

② SEE SHEET ITS-12A AND ITS-12B 2020 NDOT STANDARD PLANS FOR STEEL POST, 30-FOOT.



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

WRONG WAY DRIVER
GROUP B POLE 13C
SPECIAL DETAIL

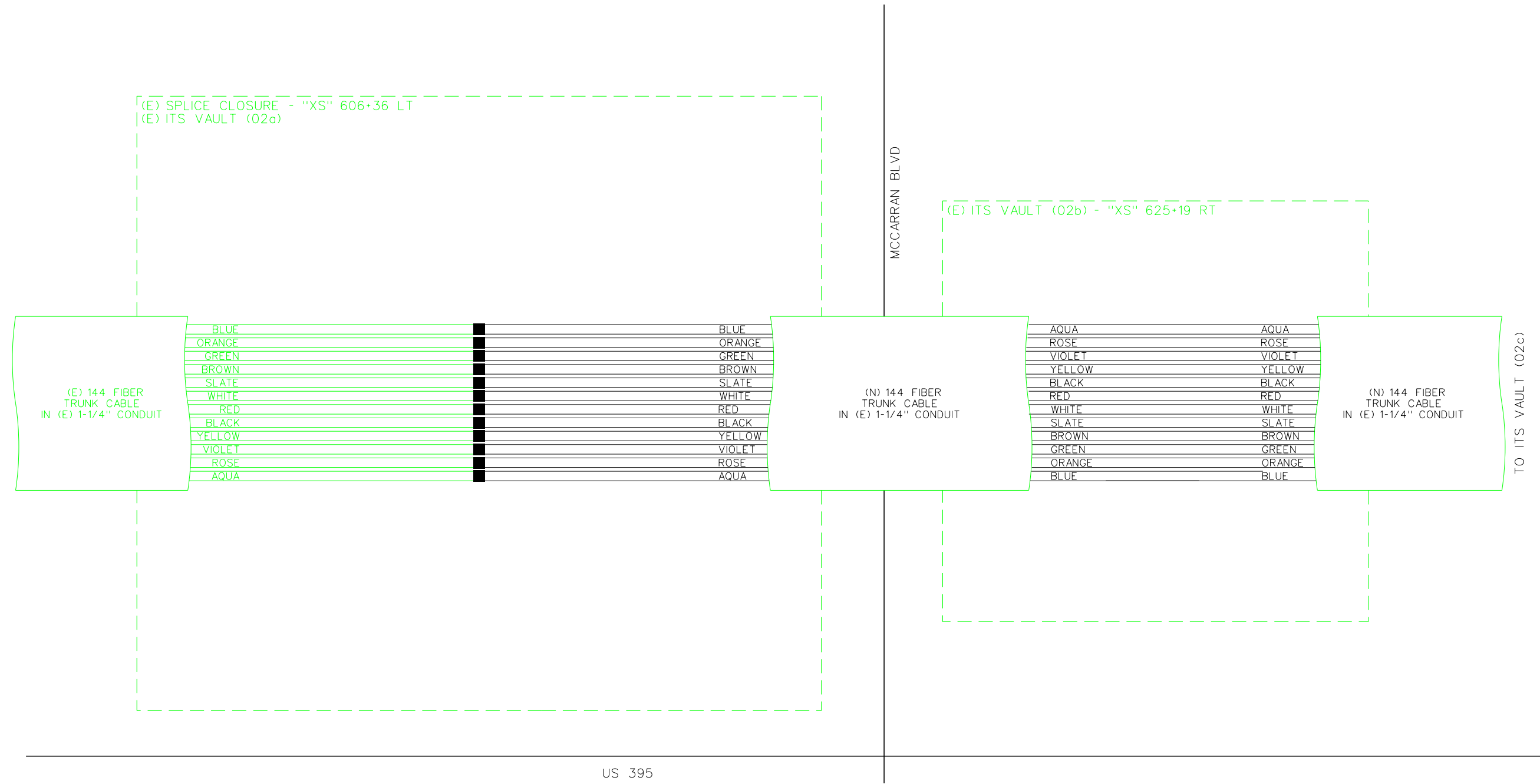


LEGENDS:

- US 395 144 FOC
- MCCARRAN 144 FOC
- VIRGINIA 144 FOC
- FO BRANCH CABLE
- FIBER OPTIC CABLE INLINE SPLICE
- FIBER OPTIC CABLE FULL BUTT SPLICE

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

NETWORK
DIAGRAM

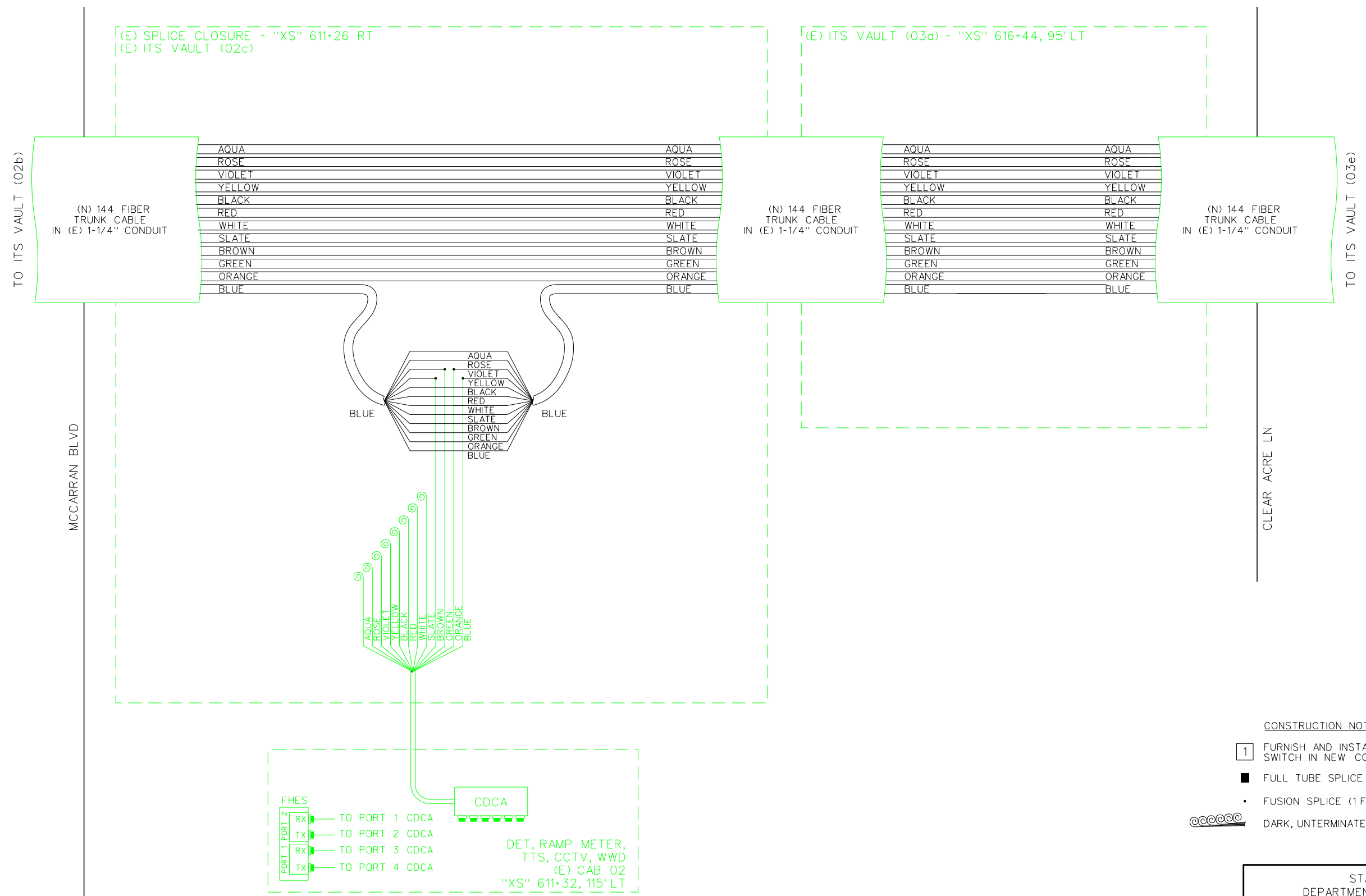


CONSTRUCTION NOTES:

- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
- FULL TUBE SPLICE (12 FIBERS)
- FUSION SPLICE (1 FIBER)
- ⊗⊗⊗⊗⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

US395 SPLICE
DIAGRAMS

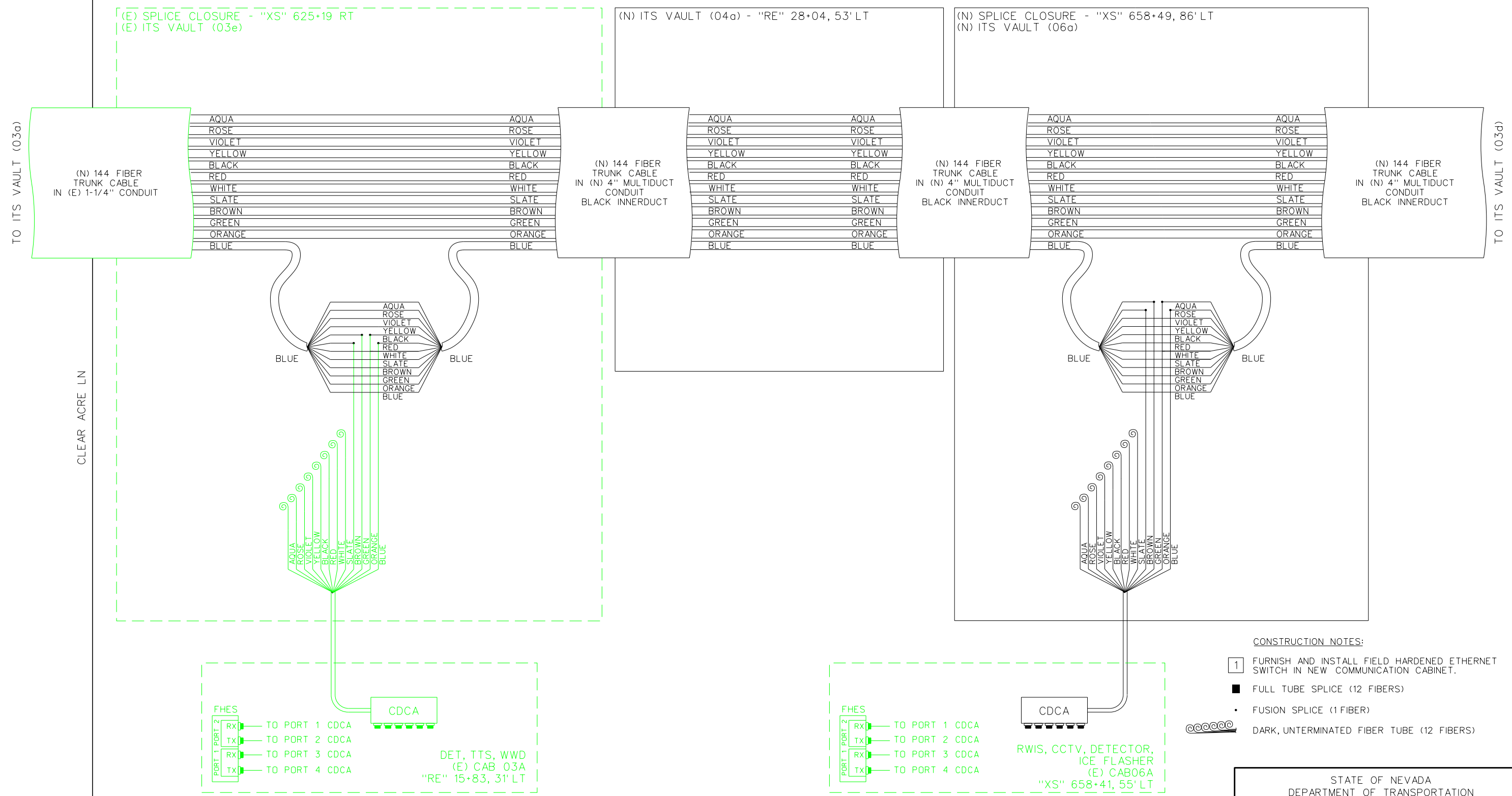


- CONSTRUCTION NOTES:
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊗⊗⊗⊗⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

US395 SPLICE
DIAGRAMS

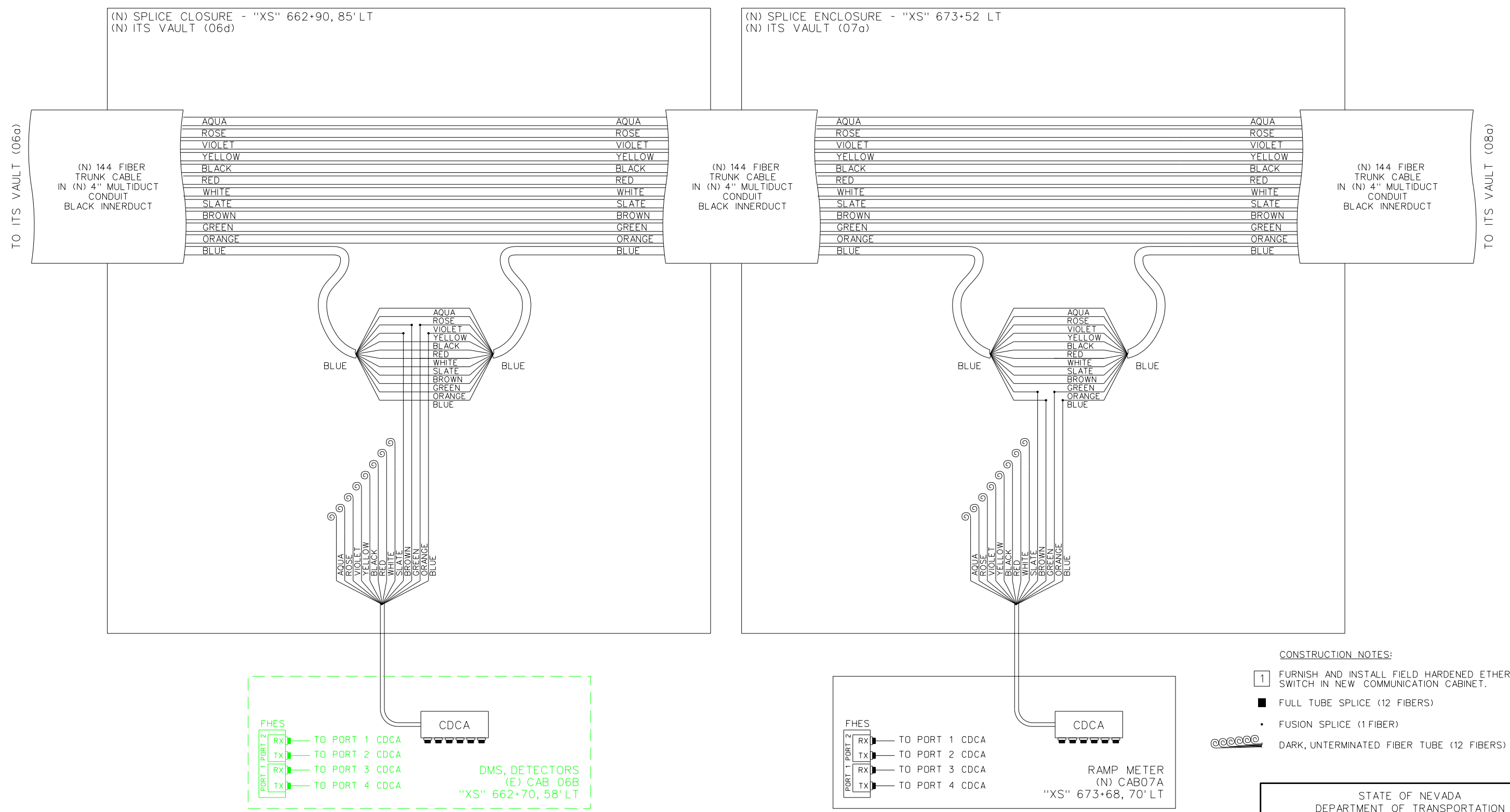
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS30



- CONSTRUCTION NOTES:
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊗⊗⊗⊗⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

US395 SPLICE
DIAGRAMS

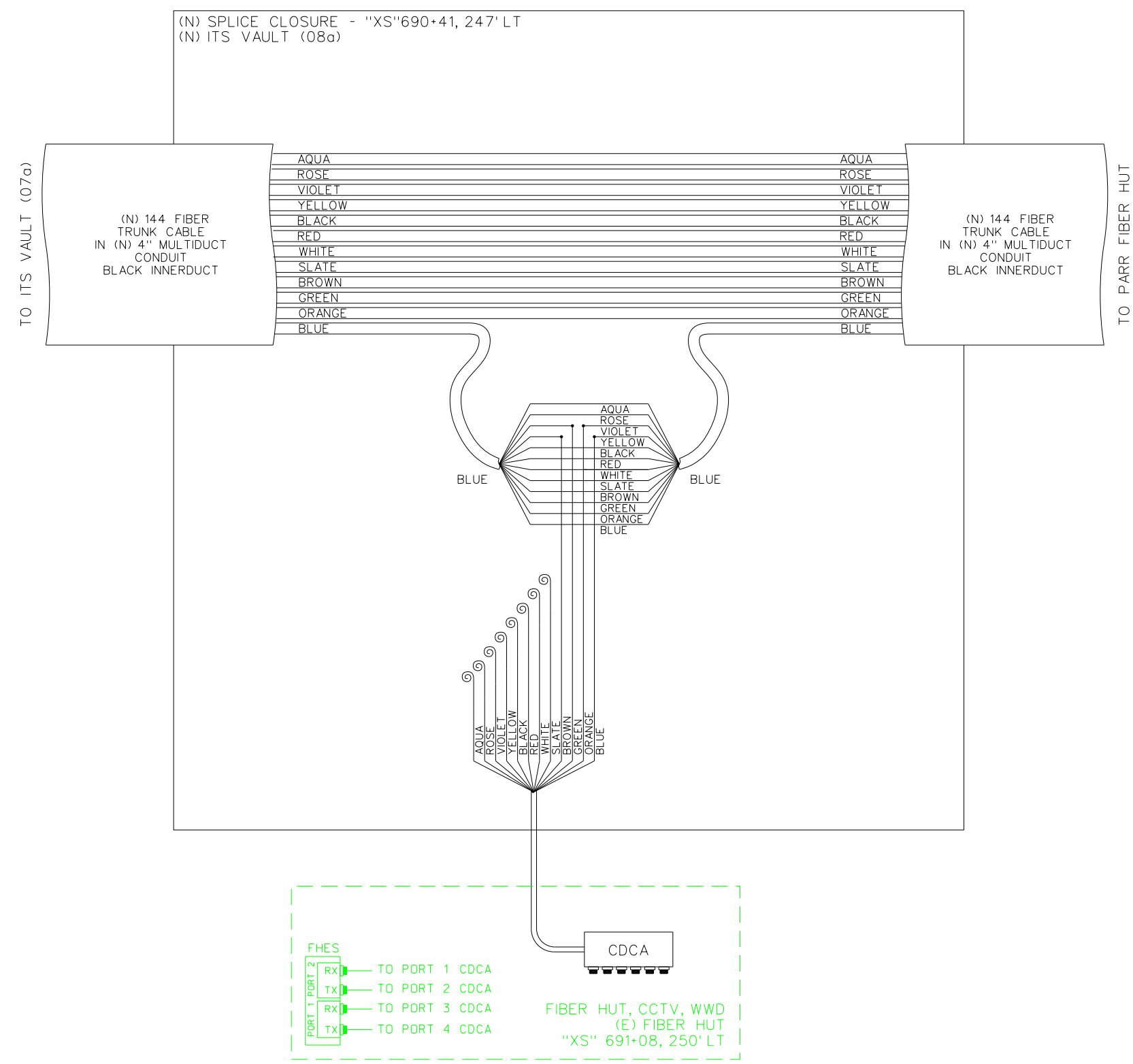


- CONSTRUCTION NOTES:**
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊗⊗⊗⊗⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**US395 SPLICE
DIAGRAMS**

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS32



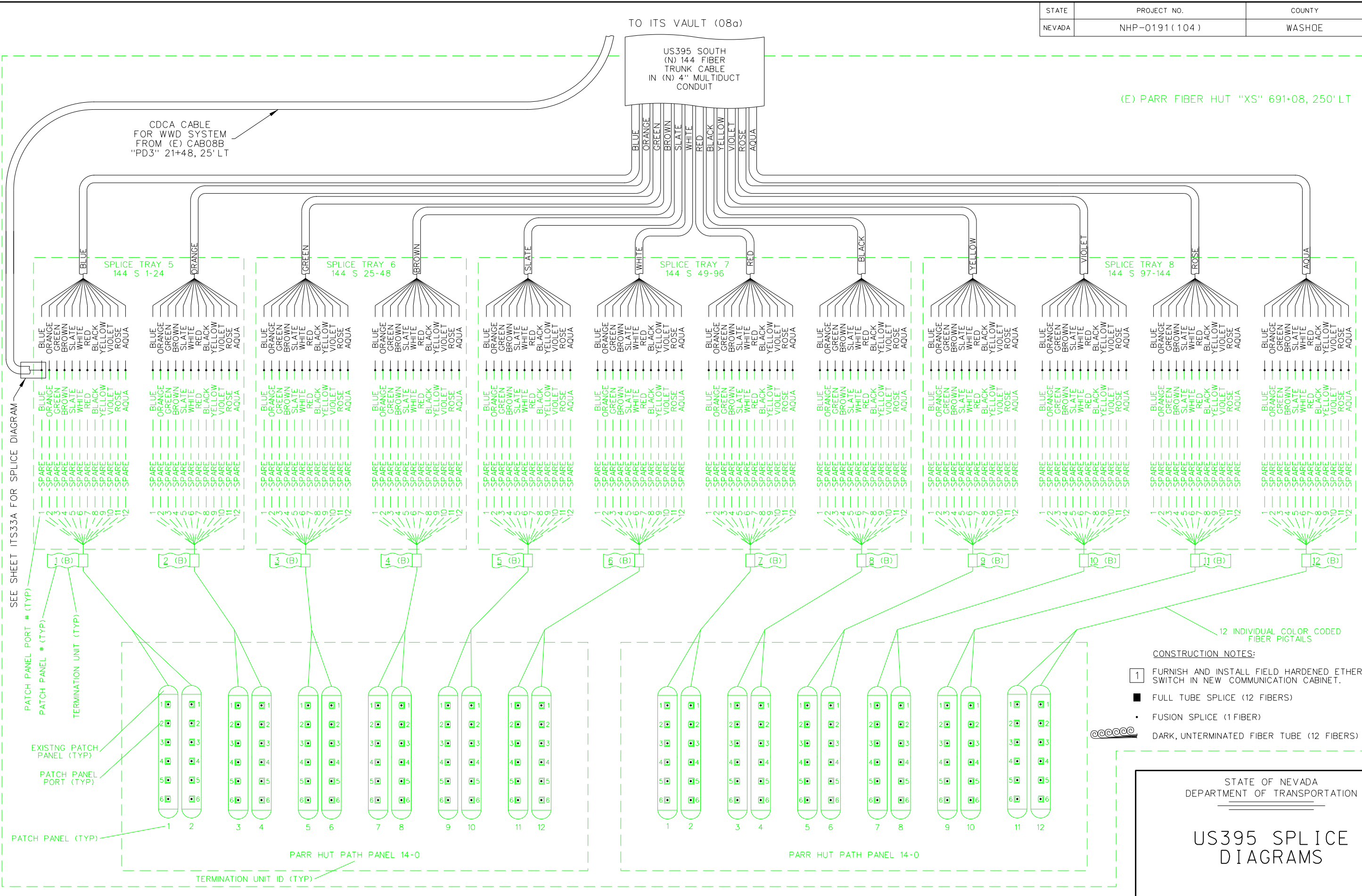
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS33

TO ITS VAULT (08a)

US395 SOUTH
(N) 144 FIBER
TRUNK CABLE
IN (N) 4" MULTIDUCT
CONDUIT

(E) PARR FIBER HUT "XS" 691-08, 250' LT

CDCA CABLE
FOR WWD SYSTEM
FROM (E) CAB08B
"PD3" 21+48, 25' LT



SEE SHEET ITS33A FOR SPLICE DIAGRAM

PATCH PANEL PORT # (TYP)

PATCH PANEL # (TYP)

TERMINATION UNIT (TYP)

EXISTING PATCH PANEL (TYP)

PATCH PANEL PORT (TYP)

PATCH PANEL (TYP)

PARR HUT PATH PANEL 14-0

PARR HUT PATH PANEL 14-0

TERMINATION UNIT ID (TYP)

12 INDIVIDUAL COLOR CODED FIBER PIGTAILS

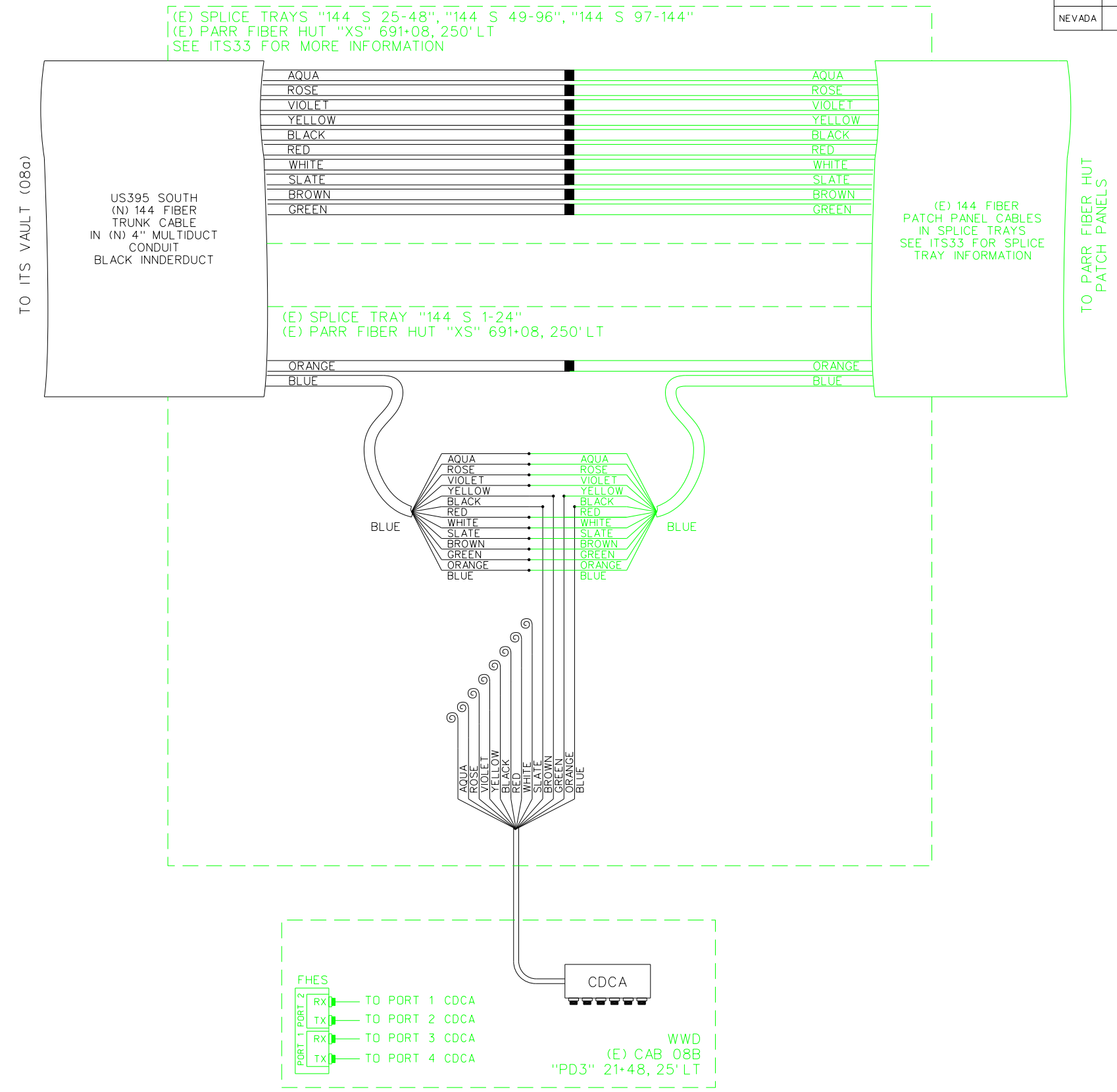
CONSTRUCTION NOTES:

- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
- FULL TUBE SPLICE (12 FIBERS)
- FUSION SPLICE (1 FIBER)
- ⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

US395 SPLICE
DIAGRAMS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS33A



- CONSTRUCTION NOTES:
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊗⊗⊗⊗⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

US395 SPLICE
DIAGRAMS

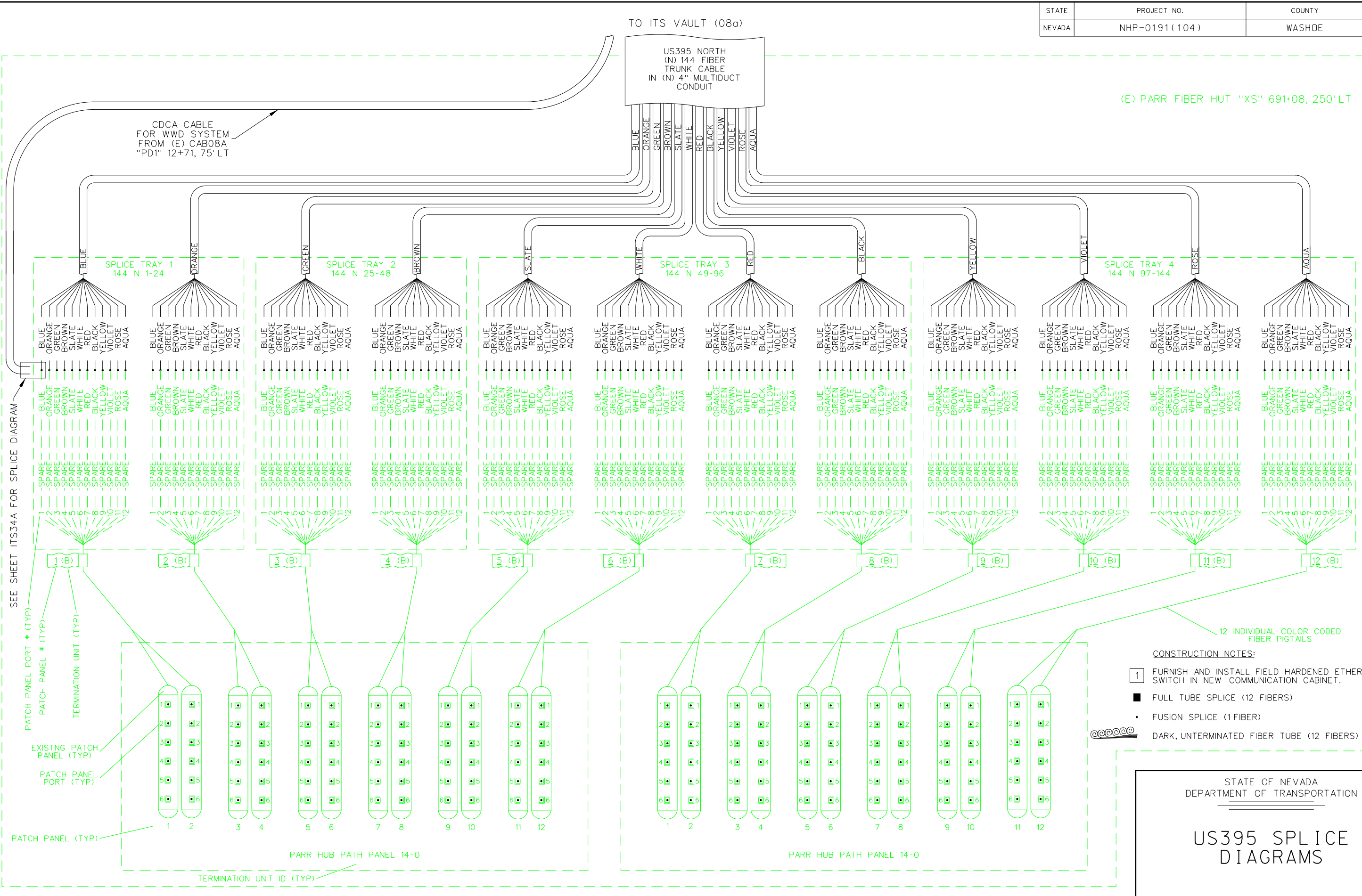
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS34

TO ITS VAULT (08a)

US395 NORTH
(N) 144 FIBER
TRUNK CABLE
IN (N) 4" MULTIDUCT
CONDUIT

(E) PARR FIBER HUT "XS" 691-08, 250' LT

CDCA CABLE
FOR WWD SYSTEM
FROM (E) CAB08A
"PD1" 12+71, 75' LT



SEE SHEET ITS34A FOR SPLICE DIAGRAM

PATCH PANEL PORT # (TYP)
PATCH PANEL # (TYP)
TERMINATION UNIT (TYP)

EXISTING PATCH PANEL (TYP)
PATCH PANEL PORT (TYP)
PATCH PANEL (TYP)

TERMINATION UNIT ID (TYP)

PARR HUB PATH PANEL 14-0

PARR HUB PATH PANEL 14-0

12 INDIVIDUAL COLOR CODED FIBER PIGTAILS

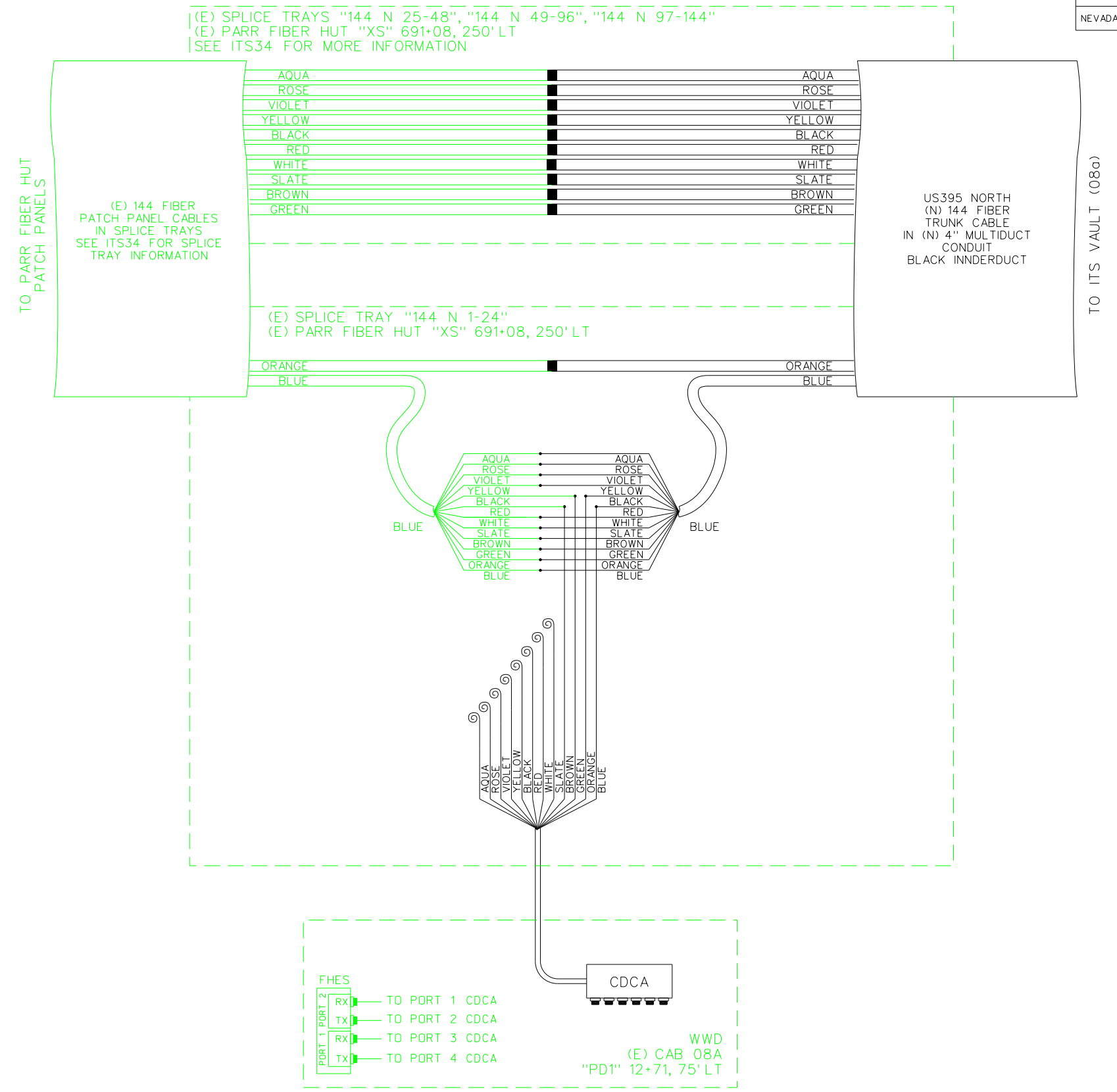
CONSTRUCTION NOTES:

- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
- FULL TUBE SPLICE (12 FIBERS)
- FUSION SPLICE (1 FIBER)
- ⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

US395 SPLICE
DIAGRAMS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS34A

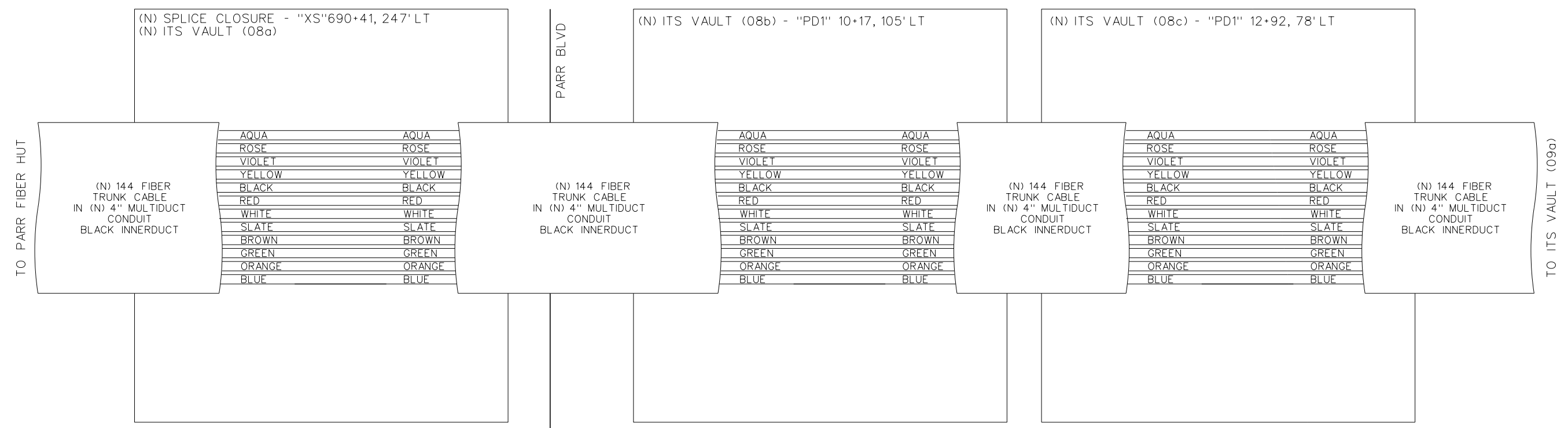


- CONSTRUCTION NOTES:
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊖⊖⊖⊖⊖⊖ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

US 395

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

US395 SPLICE
DIAGRAMS



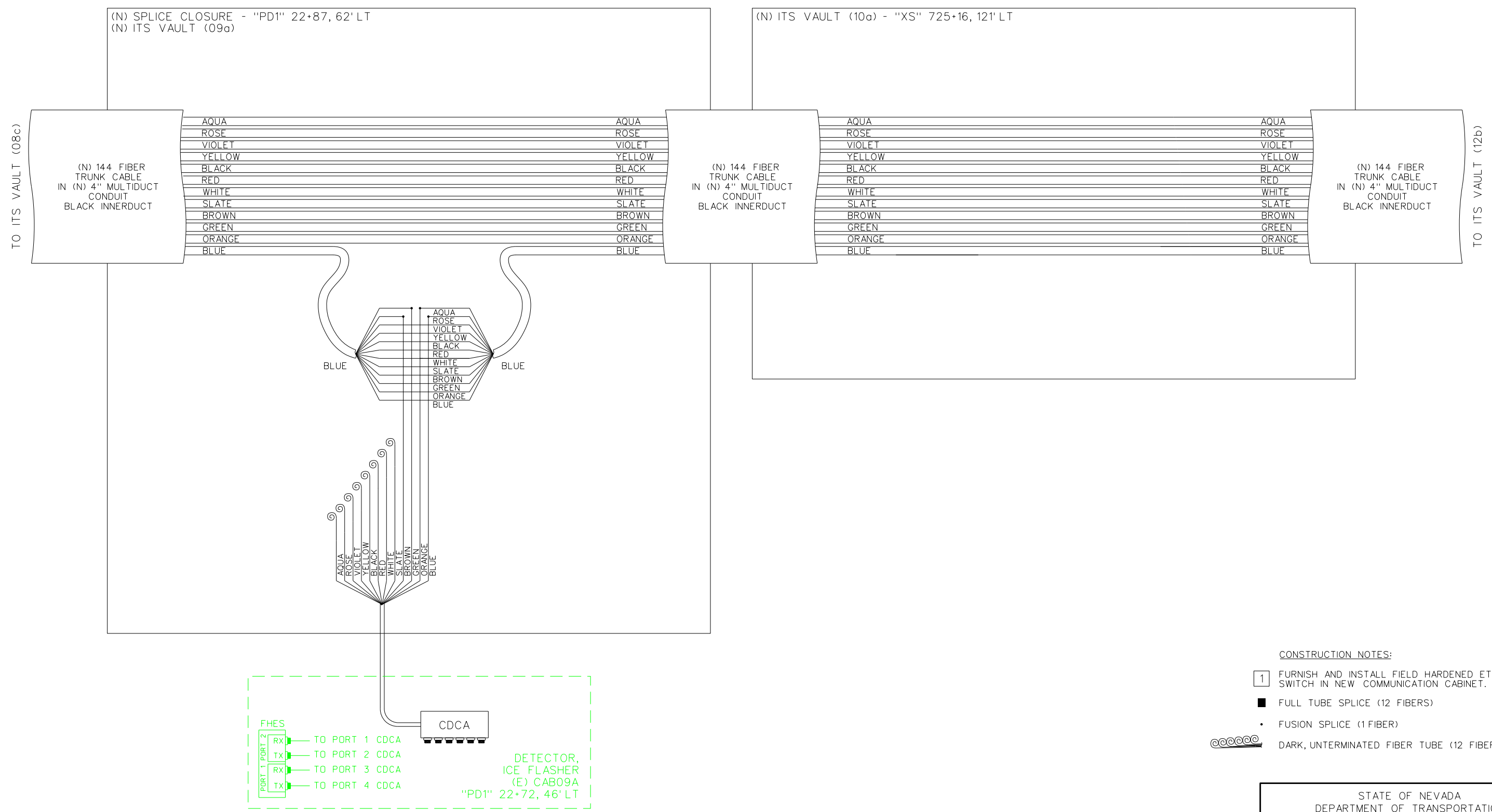
- CONSTRUCTION NOTES:
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊗⊗⊗⊗⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

US 395

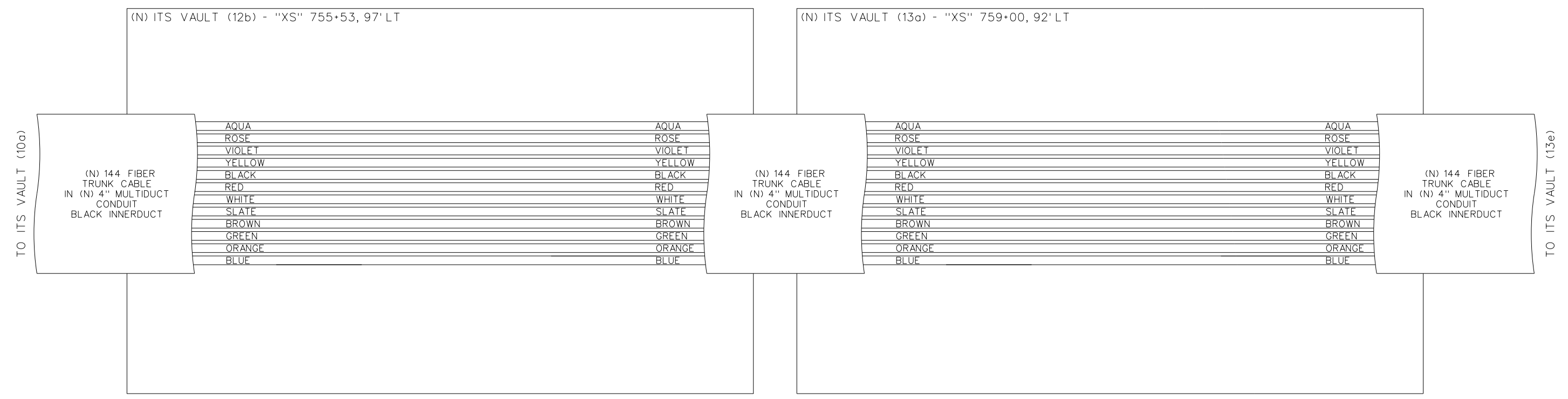
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

US395 SPLICE
DIAGRAMS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS36



STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS37



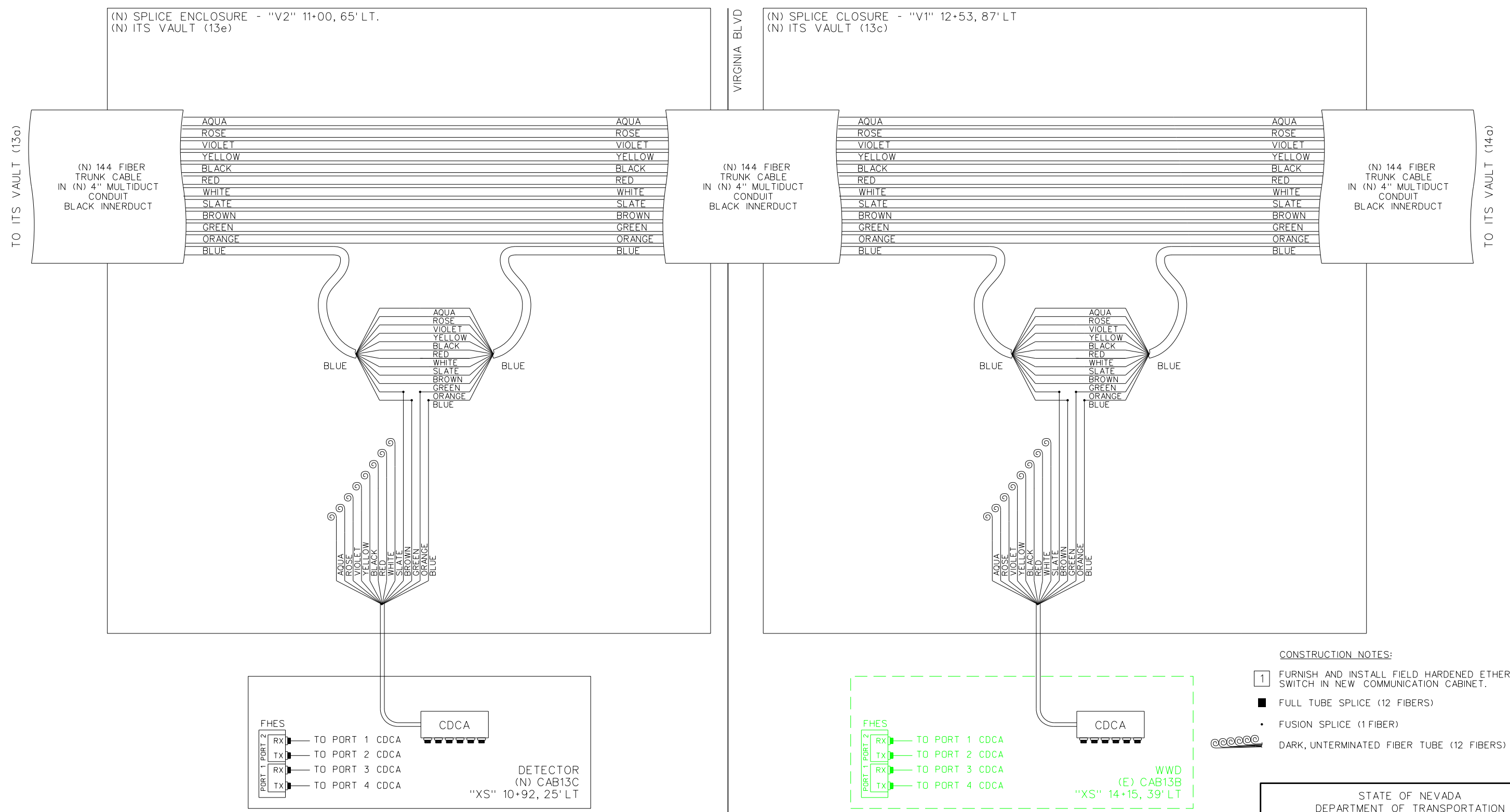
CONSTRUCTION NOTES:

- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
- FULL TUBE SPLICE (12 FIBERS)
- FUSION SPLICE (1 FIBER)
- ⊖⊖⊖⊖⊖ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

US395 SPLICE
DIAGRAMS

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS38

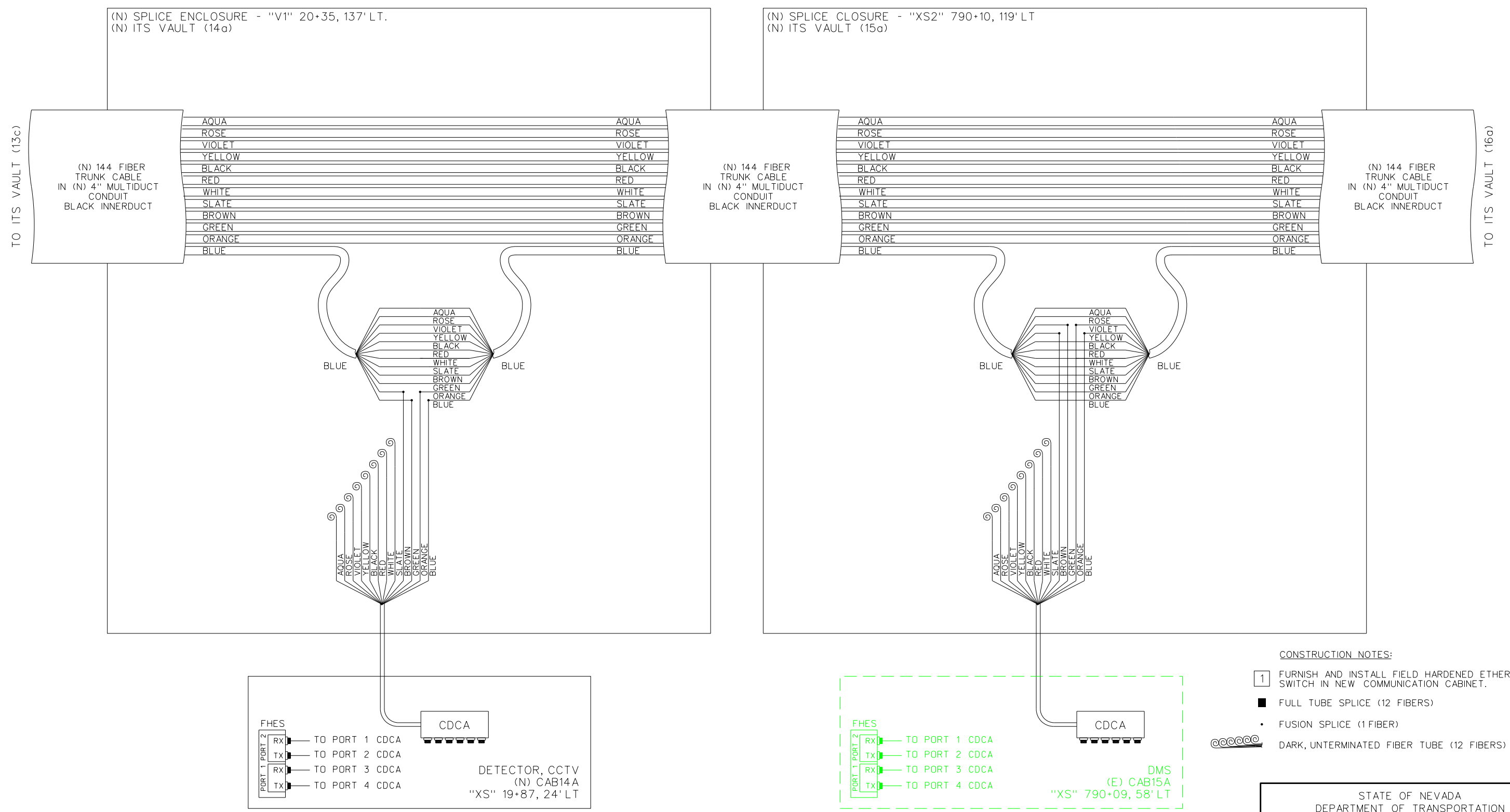


US 395

- CONSTRUCTION NOTES:
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
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STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**US395 SPLICE
DIAGRAMS**

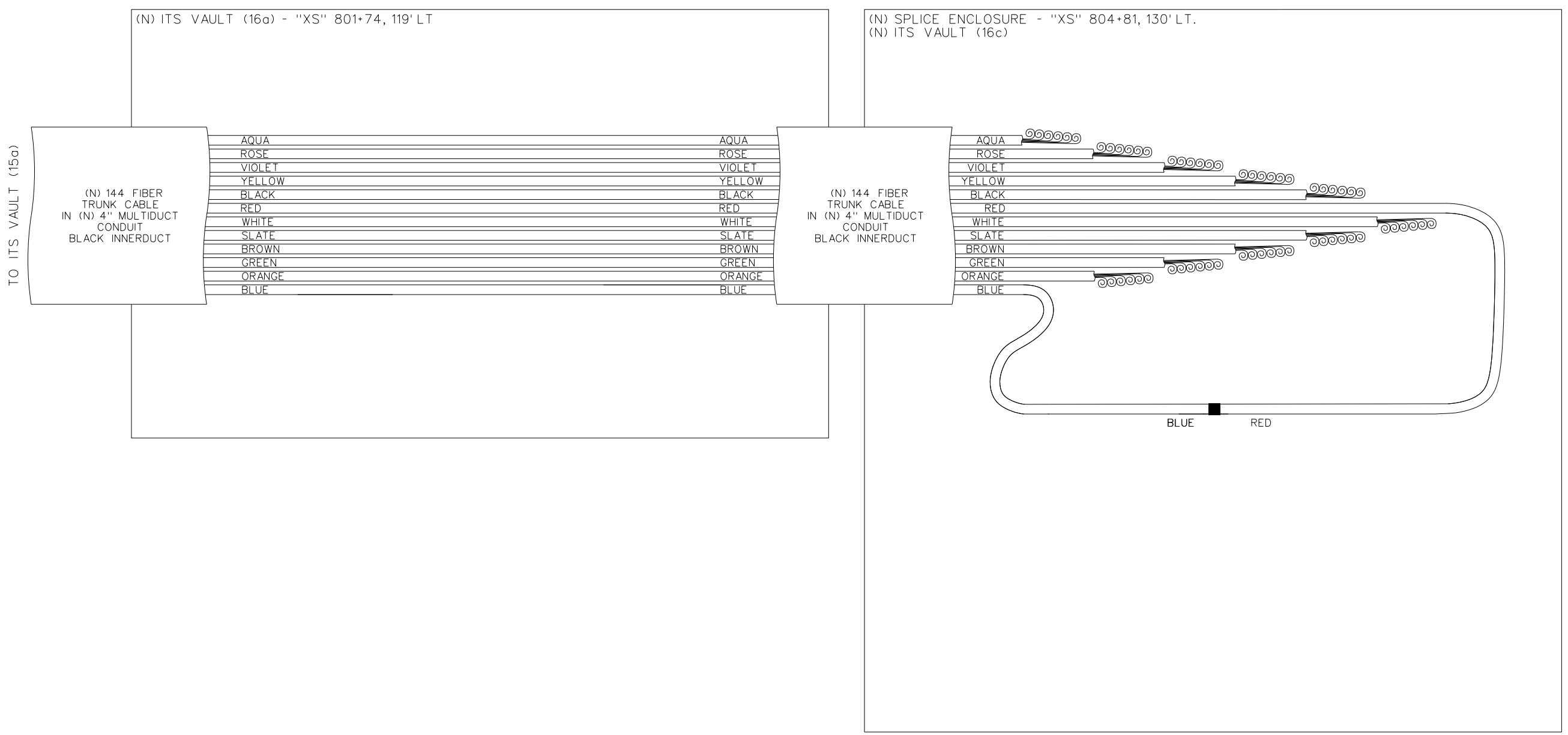


- CONSTRUCTION NOTES:**
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊗⊗⊗⊗⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**US395 SPLICE
DIAGRAMS**

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS40

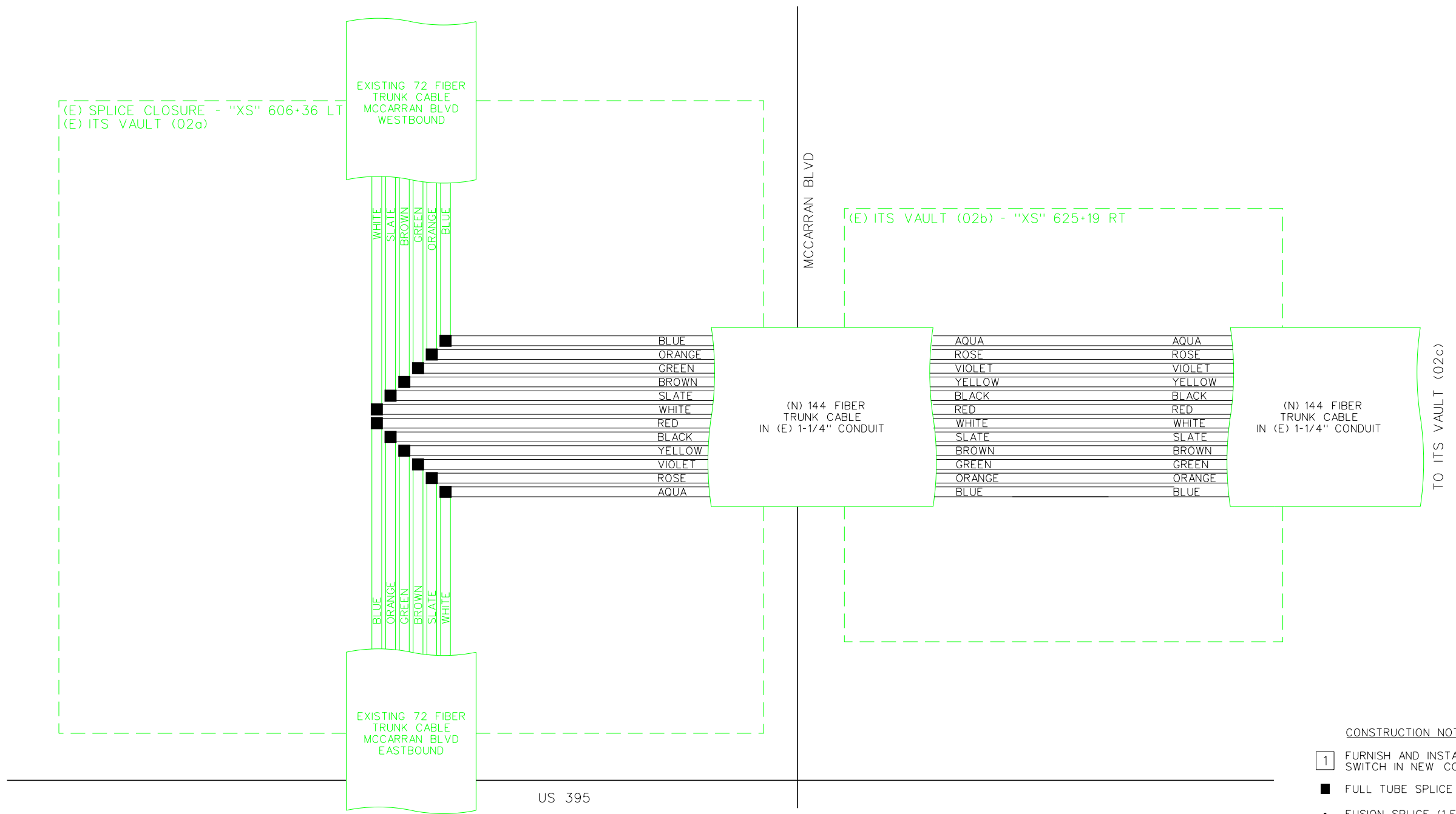


- CONSTRUCTION NOTES:
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊖⊖⊖⊖⊖⊖ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

US395 SPLICE
DIAGRAMS

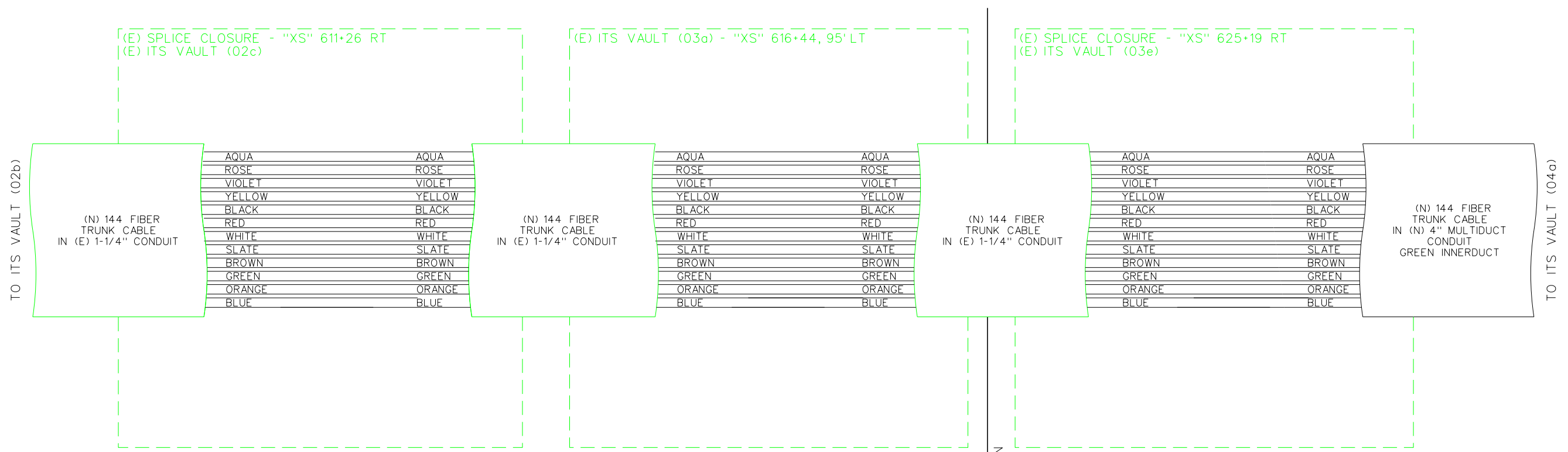
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS41



- CONSTRUCTION NOTES:**
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊗⊗⊗⊗⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

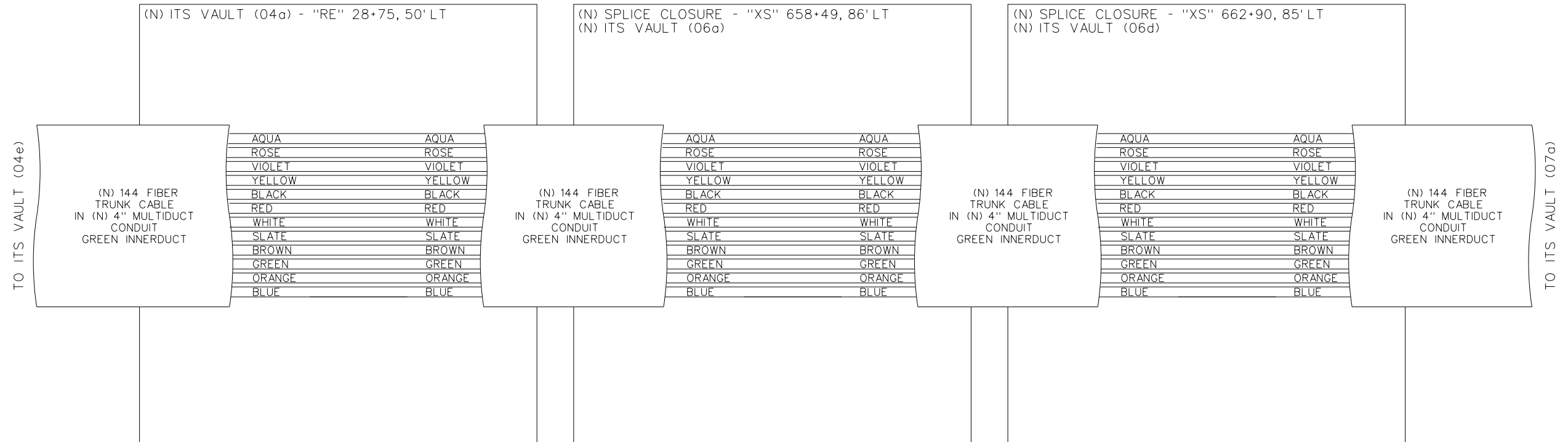
**MCCARRAN SPLICE
DIAGRAMS**



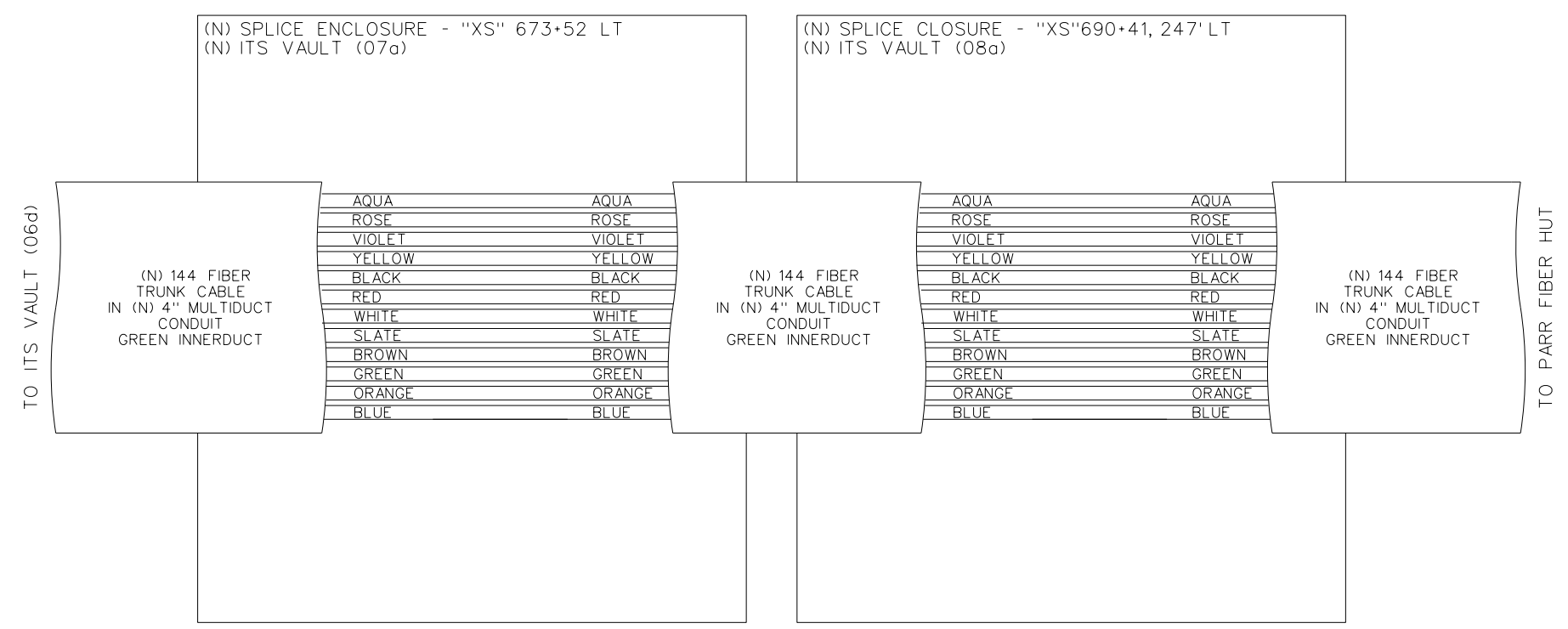
- CONSTRUCTION NOTES:
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊗⊗⊗⊗⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**MCCARRAN SPLICE
DIAGRAMS**



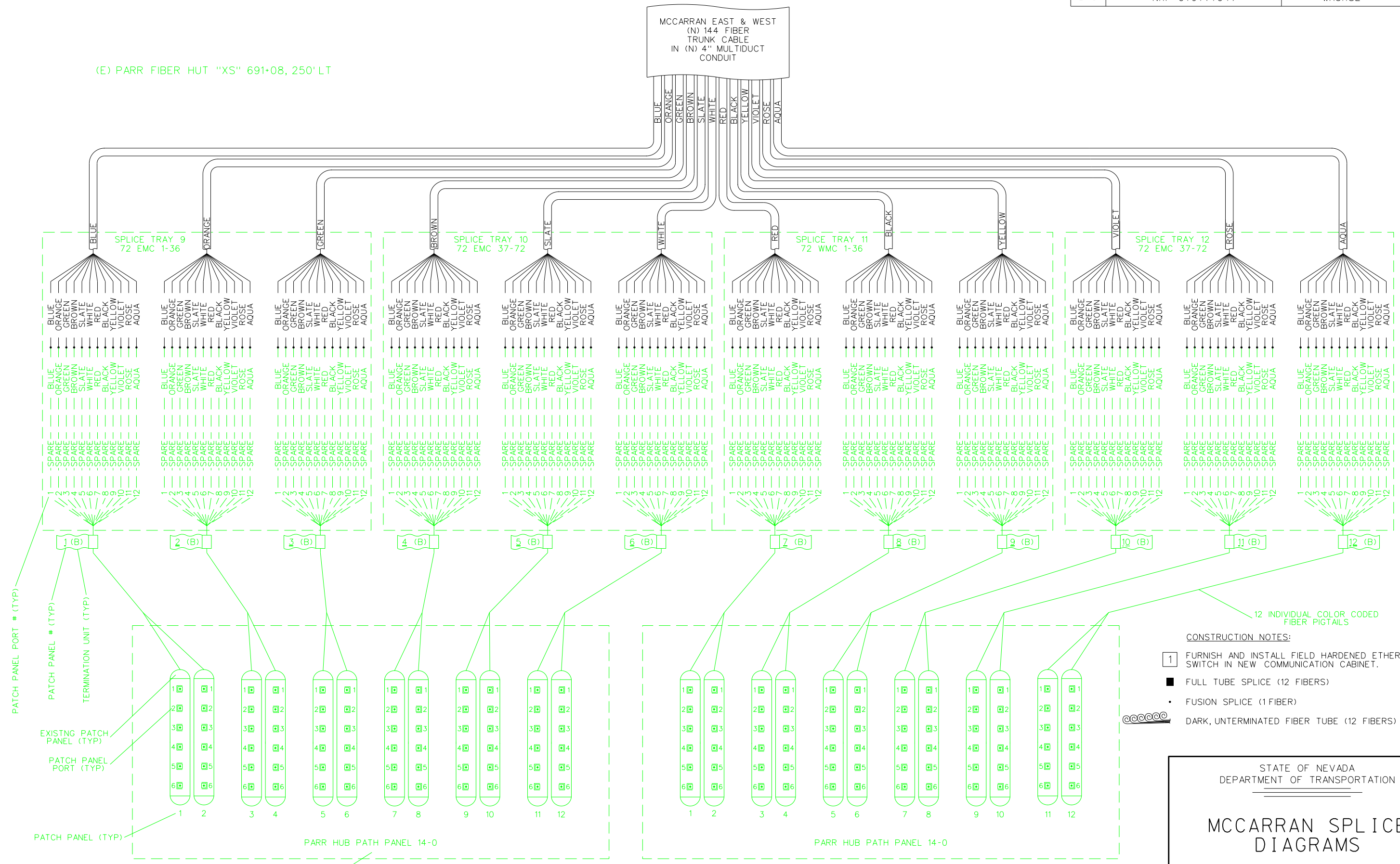
- CONSTRUCTION NOTES:
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊗⊗⊗⊗⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)



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 - FUSION SPLICE (1 FIBER)
 - ⊙⊙⊙⊙⊙ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

(E) PARR FIBER HUT "XS" 691+08, 250' LT

MCCARRAN EAST & WEST
(N) 144 FIBER
TRUNK CABLE
IN (N) 4" MULTIDUCT
CONDUIT

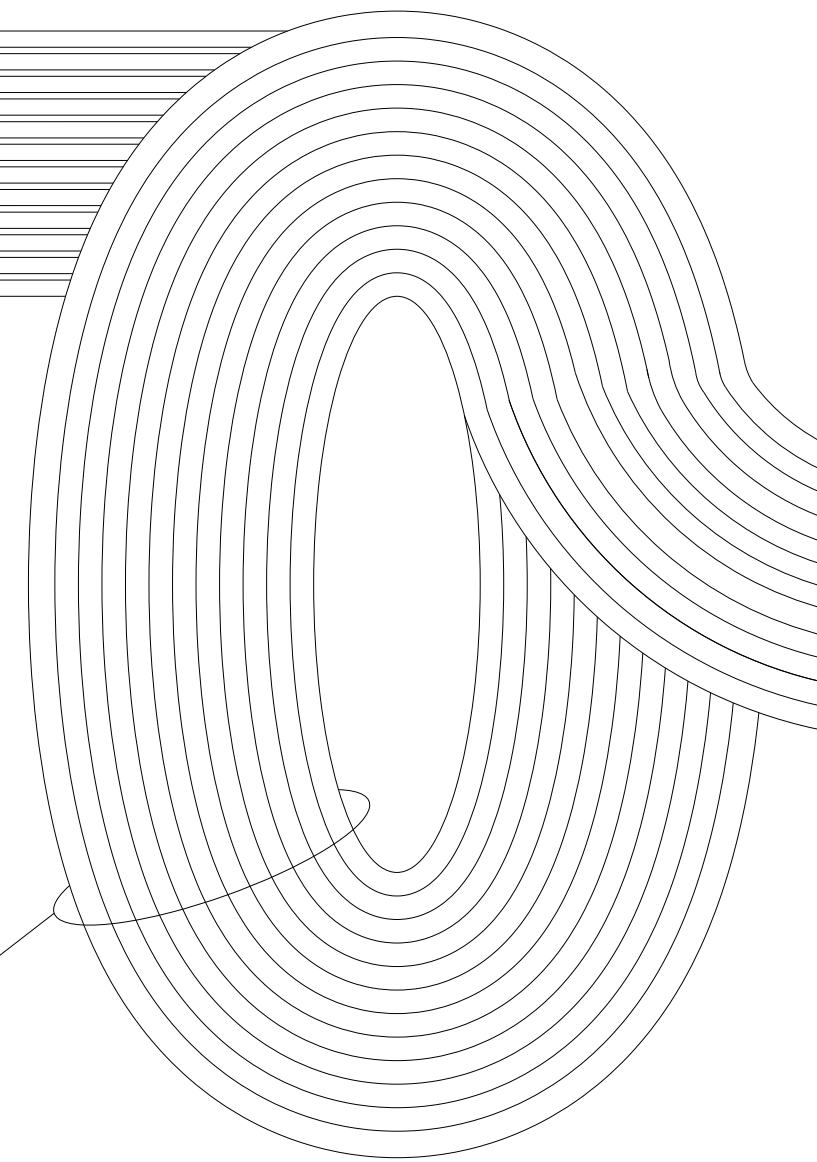
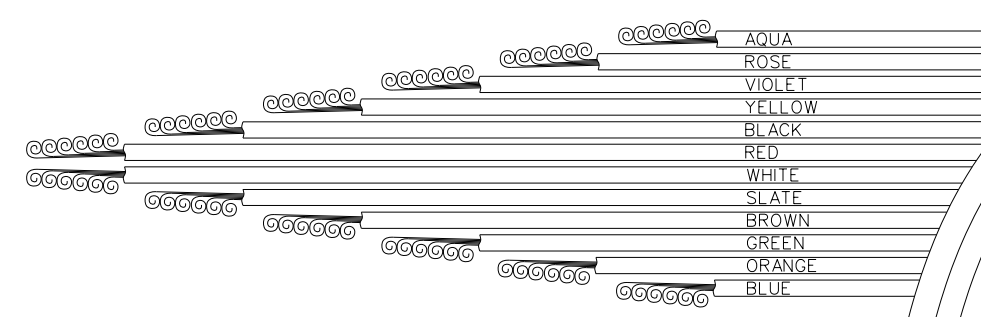


- 12 INDIVIDUAL COLOR CODED FIBER PIGTAILS
- CONSTRUCTION NOTES:**
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊖⊖⊖⊖⊖⊖ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**MCCARRAN SPLICE
DIAGRAMS**

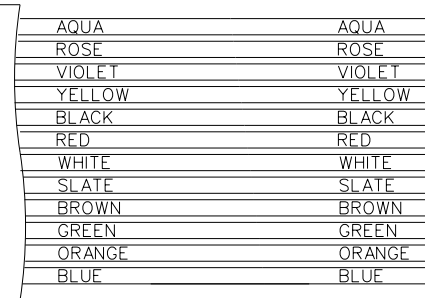
(E) PARR FIBER HUT "XS" 691+08, 250' LT



150' OF 144 FIBER TRUNK CABLE
COILED ON INTERIOR WALL FOR
FUTURE USE

(N) SPLICE CLOSURE - "XS" 690+41, 247' LT
(N) ITS VAULT (08a)

(N) 144 FIBER TRUNK CABLE
IN (N) 4" MULTIDUCT CONDUIT
GREEN INNERDUCT

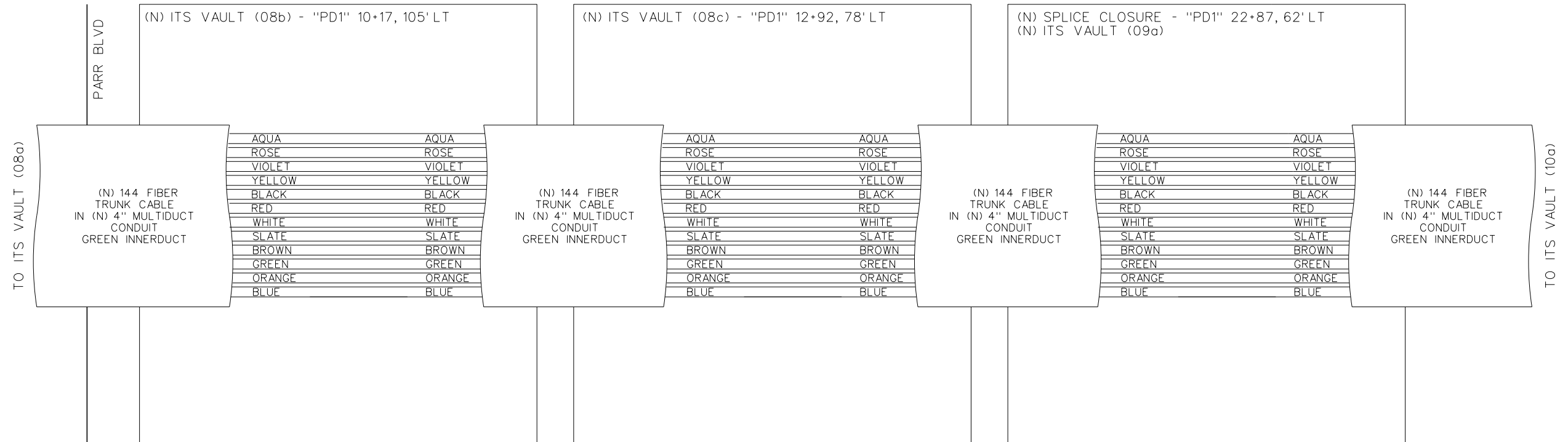


(N) 144 FIBER TRUNK CABLE
IN (N) 4" MULTIDUCT CONDUIT
GREEN INNERDUCT

PARR BLVD

TO ITS VAULT (08b)

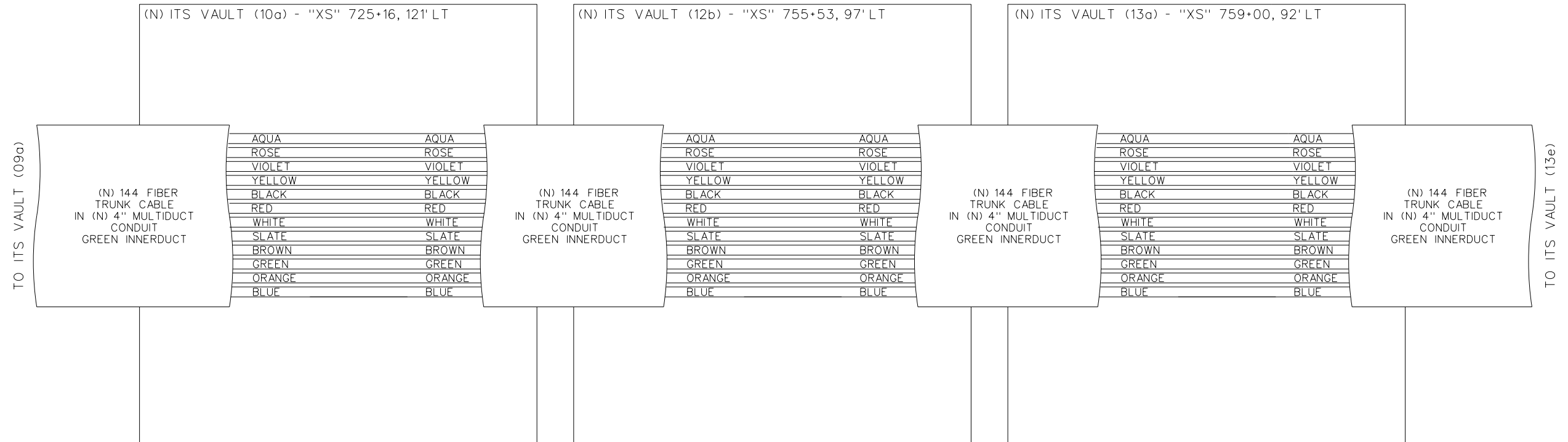
- CONSTRUCTION NOTES:
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 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)



- CONSTRUCTION NOTES:
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 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊗⊗⊗⊗⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

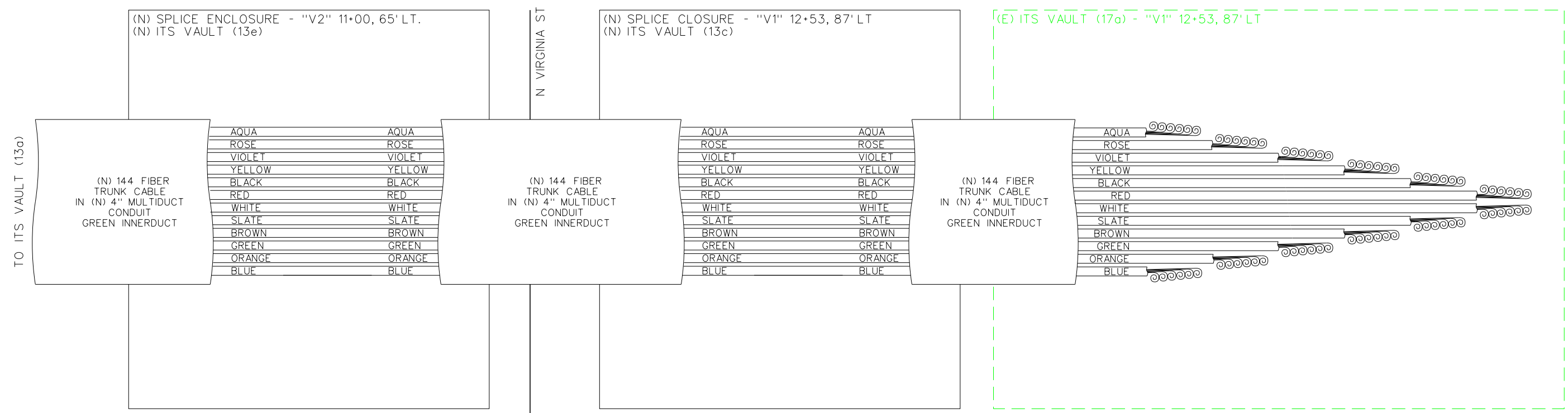
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

VIRGINIA SPLICE DIAGRAMS



- CONSTRUCTION NOTES:
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - ⊗⊗⊗⊗⊗ DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	ITS49



- CONSTRUCTION NOTES:
- 1 FURNISH AND INSTALL FIELD HARDENED ETHERNET SWITCH IN NEW COMMUNICATION CABINET.
 - FULL TUBE SPLICE (12 FIBERS)
 - FUSION SPLICE (1 FIBER)
 - DARK, UNTERMINATED FIBER TUBE (12 FIBERS)

US 395

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 VIRGINIA SPLICE
 DIAGRAMS

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE MOST CURRENT VERSION OF THE NATIONAL ELECTRIC CODE AND APPLICABLE LOCAL CODES AND ORDINANCES.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING SUBSTRUCTURES, WHETHER SHOWN OR NOT, AND TO NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATION OF THEIR INSTALLATION AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. THE EXPENSE OF REPAIR OR REPLACEMENT SHALL BE ON THE CONTRACTOR.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES. THE LOCATIONS OF UTILITIES AS SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ANY WORK. THE CONTRACTOR SHALL NOTIFY THE CALL BEFORE YOU DIG SERVICE AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO LOCATE EXISTING UTILITIES.
4. REFER TO SUBSECTION 107.17 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION REGARDING RESPONSIBILITY FOR UTILITIES.
5. VERIFY THAT THE LOCATION OF ALL POLES, PULL BOXES, CONDUITS, AND FOUNDATIONS ARE NOT IN CONFLICT WITH THE EXISTING UTILITIES AND DRAINAGE FACILITIES, PARTICULARLY WITH RESPECT TO STORM DRAIN FACILITIES AND DITCHES.
6. ALL WORK SHALL BE DONE WITHIN NDOT RIGHT-OF-WAY.

CONDUIT NOTES:

1. CONDUIT RUNS AS SHOWN ON PLANS ARE APPROXIMATE. CONDUIT RUNS SHALL BE FROM PULL BOX TO PULL BOX, POLE, OR DEVICE IN A STRAIGHT LINE OR ALIGNED WITH ROADWAY GEOMETRY; ADJUST AS NECESSARY TO AVOID EXISTING UTILITIES, TERRAIN FEATURES, AND OTHER OBSTACLES.
2. EXACT CONDUIT ROUTE TO BE DETERMINED BY THE CONTRACTOR AND VERIFIED BY THE RESIDENT ENGINEER PRIOR TO TRENCHING TO ACCOUNT FOR FIELD CONDITIONS.
3. CONDUIT RUN DESIGNATIONS ARE BASED ON SHEET NUMBER. ANY CONDUIT RUN PASSING THROUGH MULTIPLE PAGES WILL HAVE ALL QUANTITIES SHOWN ONLY ON THE SHEET WHERE THAT RUN BEGINS. CONDUIT RUN ITEMS INCLUDE CONDUIT, MULTIDUCT CONDUIT, CONDUCTOR, AND ALL OTHER CABLES.
4. THE CONTRACTOR SHALL REPAIR IN KIND ALL SURFACE MATERIALS THAT ARE DISTURBED BY TRENCHING, EXCAVATION, BACKFILLING, AND SIMILAR OPERATIONS. THIS SHALL INCLUDE BUT IS NOT LIMITED TO THE REPLACEMENT OF PAVEMENT, SIDEWALK, CURB AND GUTTER, FENCING, HYDRAULIC FEATURES, AND OTHER UTILITIES.
5. ALL CONDUITS LABELLED "MULTIDUCT" IN THE SCHEDULES SHALL BE DURALINE FUTUREPATH HYBRID 6-WAYMULTIDUCT CONSISTING OF (3) 1/4-INCH INNERDUCTS AND (3) 18/14 MICRODUCTS, ALL WITHIN A CONTINUOUS OVERSHEATH. OVERSHEATH ON NDOT MULTIDUCT SHALL BE BLUE WITH FACTORY PRINT LINE (PART NO. 10013113 OR APPROVED EQUAL); OVERSHEATH ON UTILITY MULTIDUCT SHALL BE GREEN WITH FACTORY PRINT LINE (PART NO. 10013115 OR APPROVED EQUAL). SHALL BE PAID FOR UNDER BID ITEM 623 1850, "4-INCH MULTIDUCT CONDUIT", LINFT.
6. SEAL ALL CONDUIT ENDS WITH AN APPROVED DUCT SEALING COMPOUND. NO DIRECT PAYMENT.

PULL BOX NOTES:

1. PROVIDE TRAFFIC RATED PULL BOXES (HS20 RATED).
2. ADJUST PULL BOX LOCATIONS IN THE FIELD AS REQUIRED AND DIRECTED BY THE ENGINEER.
3. ALL METAL PULL BOX LIDS SHALL BE GROUNDED USING A STRANDED #4 GREEN, 7-STRAND THW WIRE, 6 FEET IN LENGTH, FROM THE LID TO THE BONDING GROUND. FASTEN THE #4 CONDUCTOR TO THE LID BY CAD WELDING. ALL CONDUITS SHALL HAVE A MINIMUM OF 6" CLEARANCE FROM THE TOP OF THE CONDUIT TO THE LID (NO DIRECT PAYMENT).

POLE NOTES:

1. ADJUST THE POLE LOCATIONS IN THE FIELD AS REQUIRED AND DIRECTED BY THE ENGINEER.

RWIS NOTES:

1. CONTRACTOR SHALL ENSURE THAT ALL WORK TO EXISTING RWIS SYSTEMS RESULTS IN A COMPLETE WORKING SYSTEM. FOR DETAILS REGARDING NEW SURFACE SENSORS, REFER TO THE RWIS SECTION OF THE SPECIAL PROVISIONS.

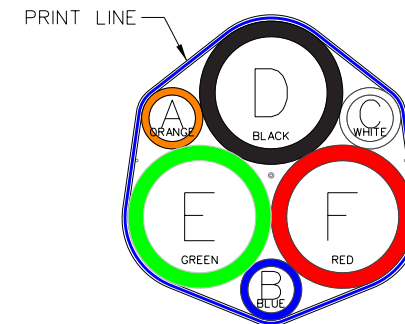
SERVICE PEDESTAL NOTES:

1. UPGRADE EXISTING SERVICE PEDESTAL FOR UNDERGROUND ELECTRICAL SERVICE: SEE PLANS FOR LOCATIONS AND ADJUST THE EXACT LOCATION IN THE FIELD AS DIRECTED BY THE ENGINEER.
2. INSTALL A 200 AMP, 120/240 VOLT, SINGLE PHASE 3 WIRE SERVICE PEDESTAL WITH A 200 AMP DOUBLE POLE MAIN BREAKER. MEET UTILITY COMPANY'S REQUIREMENTS FOR INSTALLATION. EQUIP THE SERVICE PEDESTAL WITH INTERNAL PHOTOELECTRIC CELL AND BYPASS TEST SWITCH THAT WILL CONTROL THE LIGHTING. THE INSTALLATION OF THE PEDESTAL AND ANY OTHER MISCELLANEOUS HARDWARE TO BE PAID FOR UNDER BID ITEM 623 1620 "UNDERGROUND ELECTRICAL SERVICE," EACH.
3. SUPPLY THE SERVICE PEDESTAL WITH CIRCUIT BREAKERS SPECIFIED ON THE PANEL SCHEDULES.
4. REFER TO NV ENERGY PLAN SHEETS FOR ADDITIONAL SERVICE INFORMATION.

FIBER NOTES:

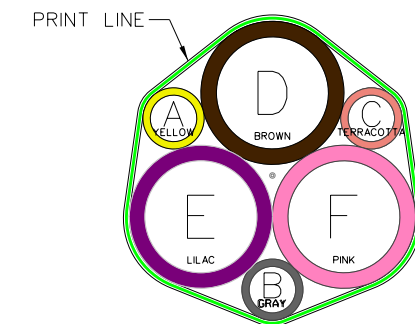
1. THE CONTRACTOR MUST INSTALL A SMALL FORM-FACTOR PLUGGABLE TRANSCEIVER ON THE END OF EACH STRAND OF FIBER THAT IS CONNECTED INTO A DEVICE/CABINET. SHALL BE PAID FOR UNDER BID ITEM 623 2930, "VIDEO OPTICAL TRANSCEIVER (VOTR) PAIR," EACH.

INNERDUCT KEY - NDOT CONDUIT:
(BLUE OVERSHEATH)



DESIGNATION	SIZE	COLOR
INNERDUCT A:	18/14	ORANGE
INNERDUCT B:	18/14	BLUE
INNERDUCT C:	18/14	WHITE
INNERDUCT D:	1 1/4-INCH	BLACK
INNERDUCT E:	1 1/4-INCH	GREEN
INNERDUCT F:	1 1/4-INCH	RED

INNERDUCT KEY - UTILITY CONDUIT:
(GREEN OVERSHEATH)



DESIGNATION	SIZE	COLOR
INNERDUCT A:	18/14	YELLOW
INNERDUCT B:	18/14	GRAY
INNERDUCT C:	18/14	TERRACOTTA
INNERDUCT D:	1 1/4-INCH	BROWN
INNERDUCT E:	1 1/4-INCH	LILAC
INNERDUCT F:	1 1/4-INCH	PINK

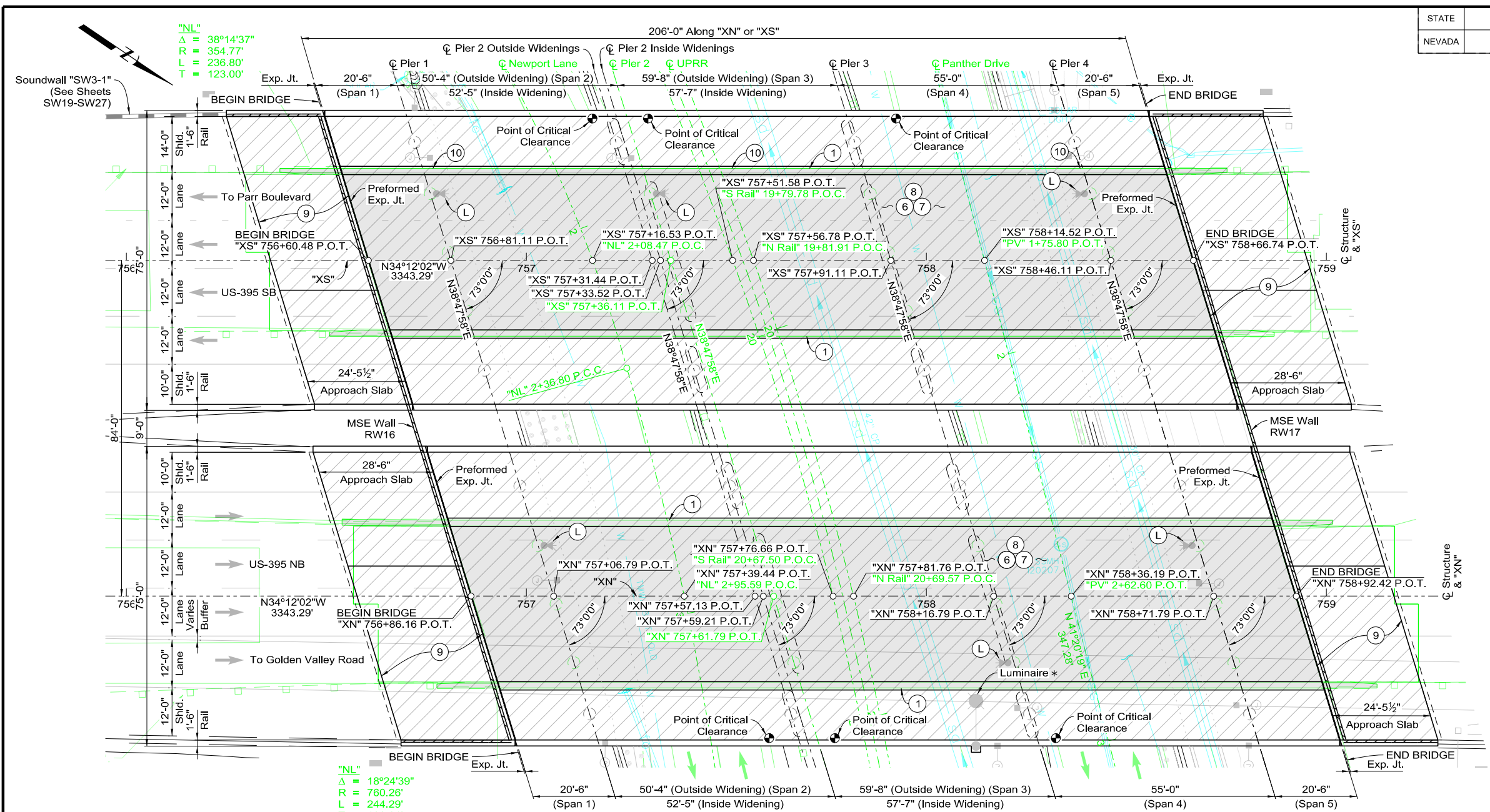
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

ITS GENERAL
NOTES

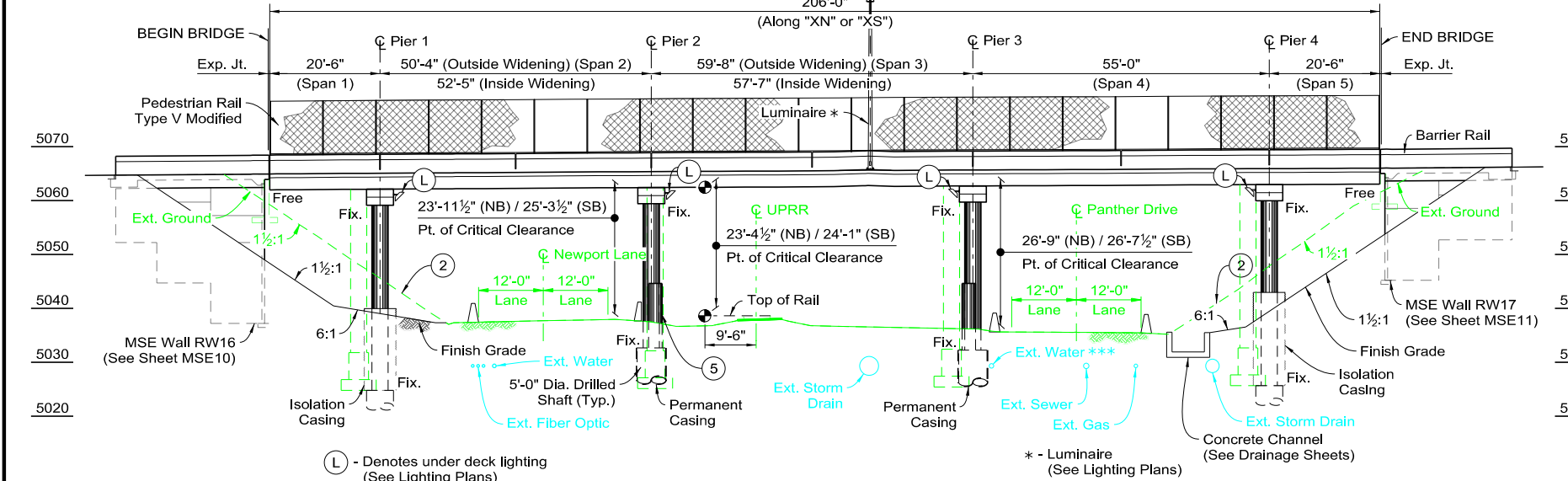
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	B100

DESCRIPTION OF WORK

- 1 Remove existing barrier rail, and overhang (Bid Item 202 0125). See Sheet B108 for removal limits and details.
- 2 Remove existing concrete slope paving, abutments, wingwalls, and approach slabs. Construct MSE walls. See MSE wall plans for details and quantities. See Landscape and Aesthetic Plans for new slope treatment.
- 3 Construct bridge widenings, see Sheet B106 for construction sequencing.
- 4 Retrofit all existing columns (Bid Item 502 0450) (See details on Sheet B118).
 - A. Chip concrete to depth of longitudinal rebar and cut specified bars.
 - B. Patch exposed reinforcing steel.
 - C. Where specified, wrap columns with composite casing.
- 5 Construct railroad crash walls for all columns at Pier 2. See Sheet B117 for details.
- 6 Remove existing composite overlay (Bid Item 202 0120). Care shall be taken to protect existing concrete bridge deck from damage.
- 7 Repair existing concrete bridge deck (Bid Item 502 0360). Remove damaged concrete to such a depth that sound concrete is exposed over the entire repair area. Blast clean any exposed reinforcing steel. Prepare repair areas and patch per 502.03.15. Submit proposed patch material for review 30 days prior to start of deck repair.
- 8 Bridge deck and approach slab preparation and polymer concrete overlay placement.
 - A. Prepare bridge deck and approach slabs in accordance with the manufacturer's recommendations (Bid Item 496 0130).
 - B. Place polyester based overlay system for a total depth of approximately 3/4" on bridge deck and 3/4" on approach slabs (Bid Item 496 0130, 496 0160, & 496 0170).
- 9 Expansion joint replacement.
 - A. Remove existing preformed expansion joint filler (Bid Item 202 0160)
 - B. Install new 2-inch preformed expansion joint filler at abutments per manufacturer's specifications and as shown in detail on Sheet B144 (Bid Item 502 2000).
 - C. Install new 2-inch preformed expansion joint filler at approach slabs and roadway per manufacturer's specifications and as shown in detail on Sheet B144 (Bid Item 502 2000).
- 10 Concrete superstructure repair (Bid Item 502 0380). Remove damaged concrete to such a depth that sound concrete is exposed over the entire repair area. Blast clean any exposed reinforcing steel. Prepare repair areas and patch per 502.03.15.
 - A. First Location of Repair: G-1092S, Span 2 exterior girder, near Pier 1.
 - B. Second Location of Repair: G-1092S, Span 3 exterior girder, near mid span.
 - C. Third Location of Repair: G-1092S, Span 4 exterior girder, near Pier 3.
 - D. Forth Location of Repair: G-1092S, Span 4 exterior girder, near Pier 4.
 - E. Fifth Location of Repair: G-1092N, Span 2 exterior girder, near Pier 1.
 - F. Sixth Location of Repair: G-1092N, Span 4 exterior girder, near mid span.
 - G. Seventh Location of Repair: G-1092N, Span 4 exterior girder, near Pier 4.



PLAN



DEVELOPED ELEVATION

LEGEND

- Limits of Polymer Concrete Overlay Removal, Barrier Rail Removal, and Concrete Bridge Deck Repair
- Limits of Polymer Concrete Overlay

** - All utility locations are approximate and are for coordination purposes only. All utilities are to be field located prior to start of construction and protected in place unless noted otherwise in plans.

GEOTECHNICAL DESIGN DIVISION	
DESIGNED BY:	GEORGE HELGERSON
PRINCIPAL:	KYLE JERMSTAD
STRUCTURAL DESIGN DIVISION	
DESIGNED BY:	NATHAN HARRISON
DRAWN BY:	ANNA CLOSE
PRINCIPAL:	MICHAEL TAYLOR

ORIGINAL CONTRACT: 1286
MODIFIED CONTRACTS: 1513,2032,2325,2983,3272

UPRR MILEPOST:	8.15
UPRR SUBDIVISION:	RENO IND. LD.
PROJECT CITY:	RENO
REVISION DATE:	1/26/2023
LAT. / LONG.:	39°35'12.77" N / 119°49'25.69" W

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**US 395 - WA 30.04
PANTHER VALLEY
UPRR OVERPASS**

G-1092 N&S

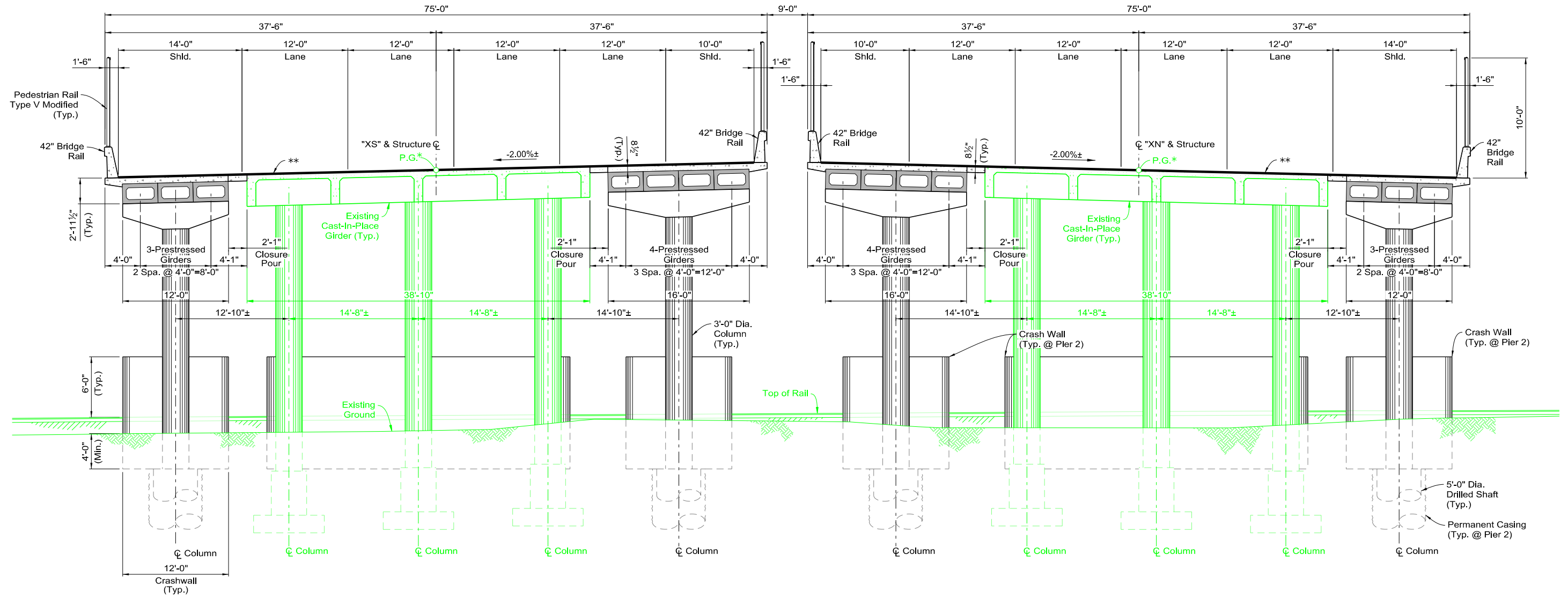
DATE : 1/26/2023

Note: See Geometrics Sheet B103 for Roadway profiles.

*** - Contractor to Verify Waterline Location Prior to Constructing Pier 3 Foundations

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	B101

* - Riding surface of Bridge Deck and Approach Slabs 3/4" above Profile Grade.
 ** - 3/4" Polymer Concrete Overlay (See Sheet B102, Note 18)



TYPICAL SECTION
 LOOKING AHEAD ON LINE
 NORMAL TO ALIGNMENT
 (THROUGH PIER 2)

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

G-1092 N&S

DATE : 1/26/2023

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	B102

GENERAL NOTES

- Design Specifications: AASHTO "LRFD Bridge Design Specifications" Eighth Edition 2017, AASHTO "Guide Specifications for LRFD Seismic Bridge Design" Second Edition 2011, with interims through 2015, and "NDOT Structures Manual" 2008, with interims through 2019, Seismic Retrofit designed in accordance with FHWA "Seismic Retrofitting Manual for Highway Structures: Part 1 Bridges" 2006.
- Construction Specifications: State of Nevada Department of Transportation "Standard Specifications for Road and Bridge Construction, 2014" except as noted below and in The Special Provisions of this Contract.
- Dead Load: In accordance with Specifications with an allowance of 38 psf for future wearing surface and 12 psf for stay-in-place deck formwork.
- Live Load: AASHTO HL-93 Loading. Overload design based on California "Standard Permit Design Vehicles" (Maximum Overload P-13 Truck). Deck Design based on the Equivalent Strip Method with a 40.0 kip axle.
- Seismic Load: PGA Coefficient = 0.50g, Short Period Coefficient (S_s) = 1.25g, Long Period Coefficient (S_l) = 0.50g, Site Class C Soil Profile (SDC D), $\gamma_w = 0.25$.
- Concrete: See Concrete Placement Schedule and Diagram for concrete class and compressive strengths.
- Reinforcing Steel: All reinforcing steel shall be ASTM A706. Reinforcing steel for precast girders may be A615 or A706. Dimensions relating to bar spacing are center to center. Bending dimensions are from out to out of the bars. Bar sizes three (3) to nine (9) are indicated by the first number of the mark; ten (10) or larger by the first two numbers. Bar marks with a letter prefix indicate a bent bar. Bar marks with a "D" suffix indicate a doweled bar. Bar marks ending with either the letter "E" or "ED" indicate that the bar shall be epoxy coated the length of the bar. Sizes four (4) and five (5), when considered as bars to control temperature, shrinkage, and distribution stresses by the Engineer, may be adjusted upon concurrence and approval of the Engineer.
- Doweled reinforcing steel: Reinforcing to be doweled in the existing concrete shall be epoxied in drilled holes with a maximum diameter equal to the bar diameter plus $\frac{1}{4}$ ". Holes shall be cleaned with oil free compressed air after drilling. Care shall be taken to avoid damaging existing reinforcing. Minimum embedment shall be 12" unless shown otherwise.
- Foundations: Piers shall be on drilled shaft foundations. For factored axial resistance, refer to Geotechnical Report from HDR titled "Geotechnical Design Report, US395 North Valleys, Washoe County, Nevada".
- Camber: Camber shall be as shown on the Plans.
- Barrier Rail: Designed for TL-4.
- Construction Type Code: x581.
- Concrete construction joints designated as a "Permissible Joint" or as an "Optional Construction Joint" may be incorporated into the construction at the Contractor's option. Joints designated as a "Construction Joint" are considered mandatory and shall be incorporated into the construction unless otherwise approved in writing by the Bridge Design Engineer.
- Elevations and roadway profile information in these plans are approximate and are based on Contract 1286, adjusted to the survey datum for this project. Contractor to verify profile and elevations prior to construction to ensure a smooth roadway profile between new bridge deck and existing roadway. Any discrepancies shall be brought to the attention of the Engineer prior to construction.
- All dimensions are measured at 60 °F unless noted otherwise.
- Verification of Existing Conditions: Before ordering materials or commencing work on any item which may be affected by the dimensions or elevations of the existing structure, the Contractor shall field verify those dimensions and elevations and shall notify the Engineer of any field measured dimensions or elevations which deviate substantially from these plans prior to commencing the work. No direct payment will be made for field measurements.
- All exposed concrete surfaces of new and existing structures (excluding bridge deck) to receive stain or surface treatments as specified in the Landscape & Aesthetic Plans (Bid Item 212 0045). Finishes to extend one foot minimum below surface grade.
- Install $\frac{3}{4}$ " polymer concrete overlay to bridge deck and approach slabs. Polymer concrete shall be installed from face of rail to face of rail. Refer to Section 496 of the Contract Special Provisions.

SHEET INDEX

SHEET	DESCRIPTION
B100	US 395 - WA 30.04 Panther Valley UPRR Overpass
B101	Typical Section
B102	General Notes and Quantities
B103	Geometrics
B104A	UPRR Coordination Plan
B104B	Railroad Profiles
B104C	Railroad Shoring Zones
B104D	Pier 2 Crashwall Shoring General Notes
B104E	Pier 2 Crashwall Shoring Plan
B105	Excavation and Backfill
B106	Bridge Construction Sequence
B107	Bridge Construction Phases
B108	Removal Details
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B113	Column and Drilled Shaft Reinforcing, 1 of 3
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B122	Typical Section Inside Widening
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B135	Camber and Concrete Placement Diagrams
B136	NB Phase 1 Approach Slab Replacement
B137	SB Phase 1 Approach Slab Replacement
B138	NB Phase 2 Approach Slab Replacement
B139	SB Phase 2 Approach Slab Replacement
B140	Approach Slab Sections and Details
B141	Bridge Rail Spans 1, 2, and 3
B142	Bridge Rail Spans 3, 4, and 5
B143	Pedestrian Rail Type V Modified Details
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B145	Bent Bars, 1 of 2
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B147	Quantities, 1 of 5
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B149	Quantities, 3 of 5
B150	Quantities, 4 of 5
B151	Quantities, 5 of 5

QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	NB	SB	QUANTITY
202 0120	REMOVAL OF PORTION OF BRIDGE DECK	SQYD	893	893	1,786
202 0125	REMOVAL OF PORTION OF BRIDGE	LS	1	1	1
202 0160	REMOVAL OF EXPANSION JOINT	LIN FT	171	171	342
206 0110	STRUCTURE EXCAVATION	CUYD	200	202	402
207 0110	GRANULAR BACKFILL	CUYD	83	84	167
496 0130	BRIDGE DECK PREPARATION AND CONCRETE PLACEMENT	SQYD	2,072	2,072	4,144
496 0160	POLYMER CONCRETE AGGREGATE	POUND	145,665	145,665	291,330
496 0170	POLYMER CONCRETE RESIN	POUND	20,393	20,393	40,786
502 0360	CONCRETE BRIDGE DECK REPAIR	FA	1	1	1
502 0380	CONCRETE SUPERSTRUCTURE REPAIR	FA	1	1	1
502 0450	SEISMIC RETROFIT OF COLUMNS	LS	1	1	1
502 0881	CLASS DA CONCRETE, MODIFIED (MAJOR) (STRUCTURES)	CUYD	322	322	644
502 1010	CLASS EA CONCRETE, MODIFIED (MAJOR)	CUYD	483	484	967
502 1950	BRIDGE DECK CURING COMPOUND	GAL	77	77	154
502 2000	PREFORMED JOINT FILLER (2-INCH)	LINFT	309	309	618
503 0360	48-FOOT PRECAST CONCRETE MEMBERS	EACH	3	3	6
503 0370	50-FOOT PRECAST CONCRETE MEMBERS	EACH	4	4	8
503 0400	53-FOOT PRECAST CONCRETE MEMBERS	EACH	7	7	14
503 0430	56-FOOT PRECAST CONCRETE MEMBERS	EACH	4	4	8
503 0440	58-FOOT PRECAST CONCRETE MEMBERS	EACH	3	3	6
505 0100	REINFORCING STEEL	POUND	65,977	65,977	131,954
505 0110	REINFORCING STEEL (DOWELED)	POUND	1,564	1,564	3,128
505 0120	REINFORCING STEEL (EPOXY COATED)	POUND	144,092	144,075	288,167
506 0110	STRUCTURAL STEEL	POUND	26,319	26,319	52,638
506 0810	PEDESTRIAN RAIL, TYPE V (MODIFIED)	LINFT	412	412	824
509 0170	DRILLED SHAFT FOUNDATION (60-INCH)	LINFT	360	360	720

ABBREVIATIONS

Alt.	Alternate
Brg.	Bearing
Bot.	Bottom
C.G.	Center of Gravity
C.G.S.	Center of Gravity of Steel
CIP	Cast In Place
Clr.	Clear
CMP	Corrugated Metal Pipe
Col.	Column
Const. Jt.	Construction Joint
Dbf.	Double
Dia.	Diameter
Dim.	Dimension
Ea.	Each
E.F.	Each Face
Elev.	Elevation
EQ. Spa.	Equal Space
E.S.	Each Side
Exp.	Expansion
Ext.	Existing/Exterior
E.W.	Each Way
F.F.	Far Face
Flx.	Flxed
Galv.	Galvanized
I.D.	Inner Diameter
Int.	Interior/Intermediate
Jt.	Joint
LOL	Layout Line
Max.	Maximum
Min.	Minimum
N.F.	Near Face
O.D.	Outer Diameter
Opt.	Optional
P.G.	Profile Grade
Ped.	Pedestrian
Pr.	Pair
P.S.	Prestressing
PT	Post-Tensioning
Sect.	Section
Shld.	Shoulder
Sp.	Span
Spa.	Space
Spa. Var.	Spacing Varies
Sq.	Square
Typ.	Typical

STANDARD BAR LAPS

Bar Size	Uncoated (in)	Epoxy Coated (in)
#4	20	24
#5	24	30
#6	30	34
#7	38	45
#8	48	57
#9	60	72
#10	74	88
#11	90	108

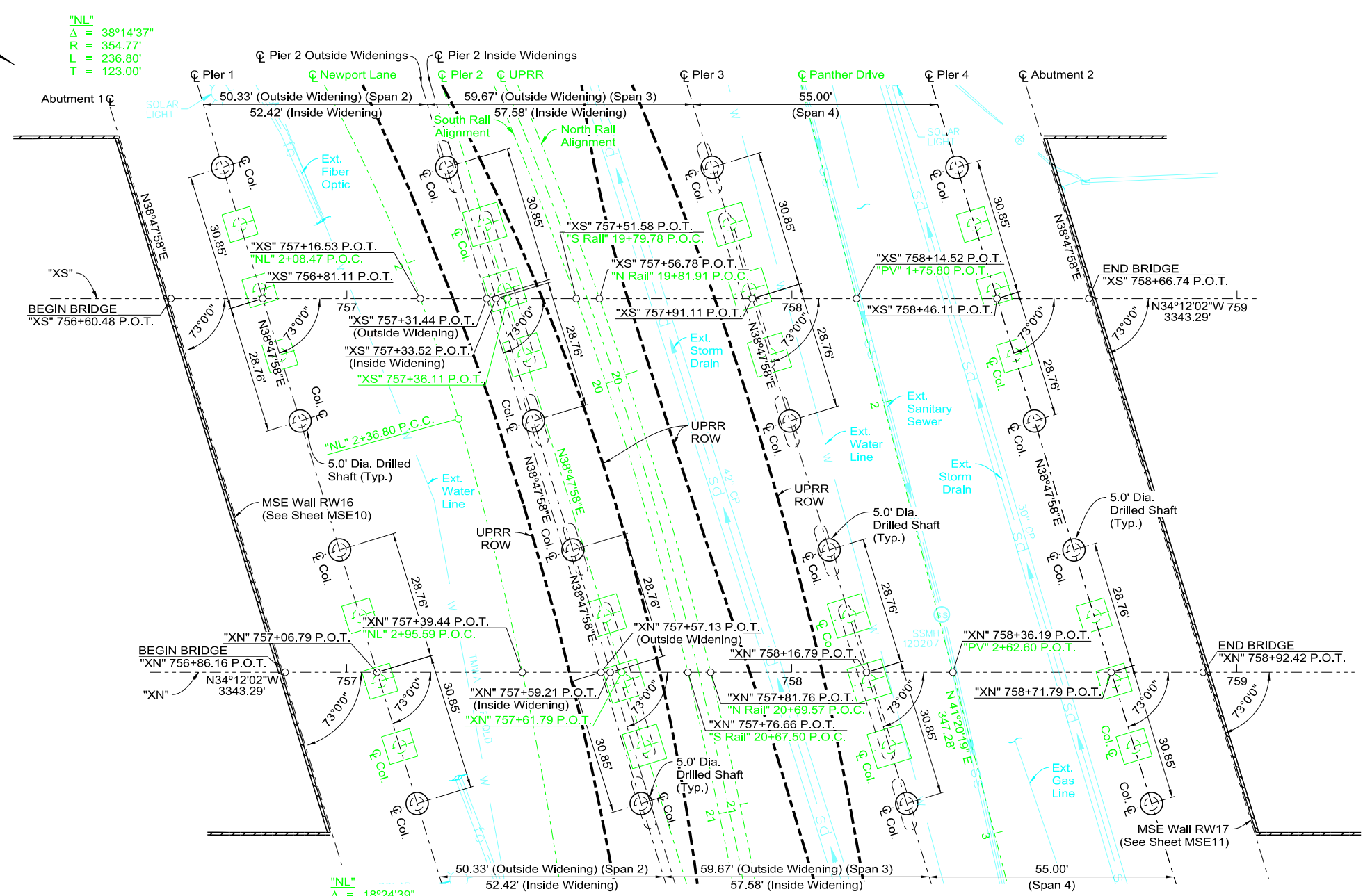
STATE OF NEVADA
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GENERAL NOTES AND QUANTITIES

G-1092 N&S

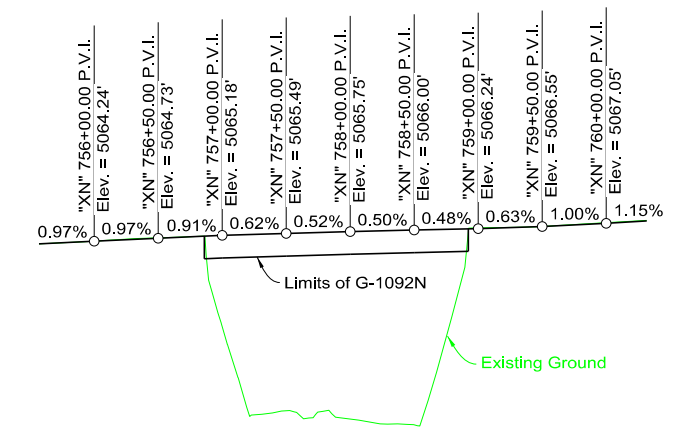
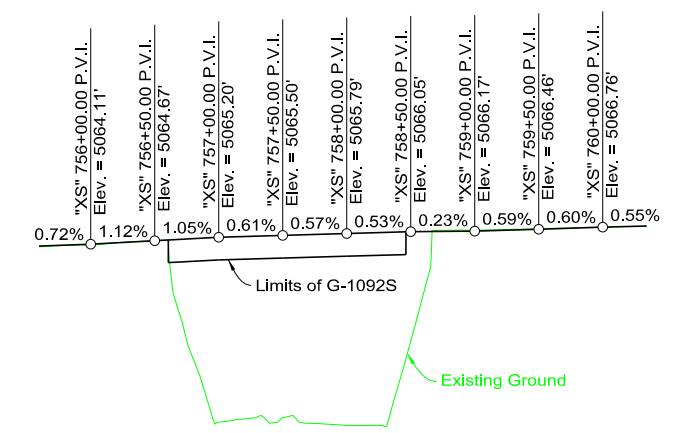
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	B103

** - All utility locations are approximate and are for coordination purposes only. All utilities are to be field located prior to start of construction and protected in place unless noted otherwise in plans.



"NL"
 $\Delta = 38^{\circ}14'37"$
 $R = 354.77'$
 $L = 236.80'$
 $T = 123.00'$

"NL"
 $\Delta = 18^{\circ}24'39"$
 $R = 760.26'$
 $L = 244.29'$
 $T = 123.21'$



- NOTES**
- All dimensions between piers are measured along either "XS" or "XN" lines.

STATE OF NEVADA
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GEOMETRICS

G-1092 N&S

DATE : 1/26/2023

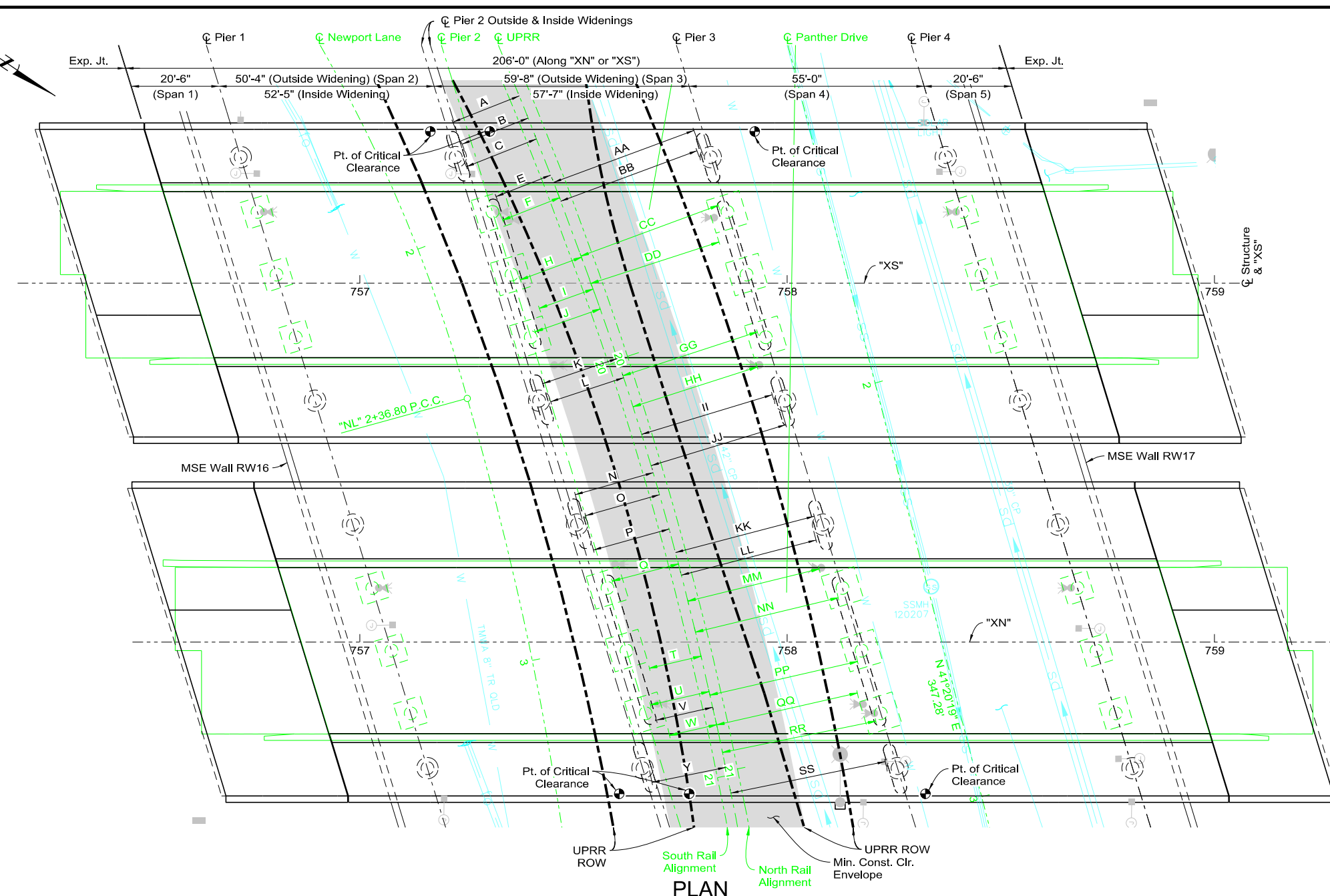
HORIZONTAL RAILROAD CLEARANCES

Dim.	Length (ft)	Pier 2 Element	Dim.	Length (ft)	Pier 3 Element
A	16.75	New Crash Wall	AA	35.00	New Column (3'-0" Dia.)
B	16.63	New Drilled Shaft (5'-0" Dia.)	BB	34.00	New Drilled Shaft (5'-0" Dia.)
C	17.63	New Column (3'-0" Dia.)	CC	34.25	Existing Column (3'-0" Dia.)
D	11.54	Existing Spread Footing	DD	31.54	Existing Spread Footing
E*	13.75*	New Crash Wall*	EE	33.50	Existing Column (3'-0" Dia.)
F	14.33	Existing Column (3'-0" Dia.)	FF	30.83	Existing Spread Footing
G	12.50	Existing Spread Footing	GG	33.04	Existing Column (3'-0" Dia.)
H	15.25	Existing Column (3'-0" Dia.)	HH	30.50	Existing Spread Footing
I	13.38	Existing Spread Footing	II	31.92	New Drilled Shaft (5'-0" Dia.)
J	16.13	Existing Column (3'-0" Dia.)	JJ	32.92	New Column (3'-0" Dia.)
K	18.38	New Crash Wall	KK	33.58	New Column (3'-0" Dia.)
L	17.96	New Drilled Shaft (5'-0" Dia.)	LL	32.58	New Drilled Shaft (5'-0" Dia.)
M	18.96	New Column (3'-0" Dia.)	MM	33.58	Existing Spread Footing
N	19.00	New Column (3'-0" Dia.)	NN	34.38	Existing Column (3'-0" Dia.)
O	18.00	New Drilled Shaft (5'-0" Dia.)	OO	32.63	Existing Spread Footing
P	18.38	New Crash Wall	PP	35.42	Existing Column (3'-0" Dia.)
Q	16.00	Existing Column (3'-0" Dia.)	QQ	33.75	Existing Spread Footing
R	13.33	Existing Spread Footing	RR	36.63	Existing Column (3'-0" Dia.)
S	15.17	Existing Column (3'-0" Dia.)	SS	36.88	New Drilled Shaft (5'-0" Dia.)
T	12.42	Existing Spread Footing	TT	37.88	New Column (3'-0" Dia.)
U	14.08	Existing Column (3'-0" Dia.)			
V*	13.50*	New Crash Wall*			
W	11.29	Existing Spread Footing			
X	16.58	New Drilled Shaft (5'-0" Dia.)			
Y	17.58	New Column (3'-0" Dia.)			
Z	16.67	New Crash Wall			

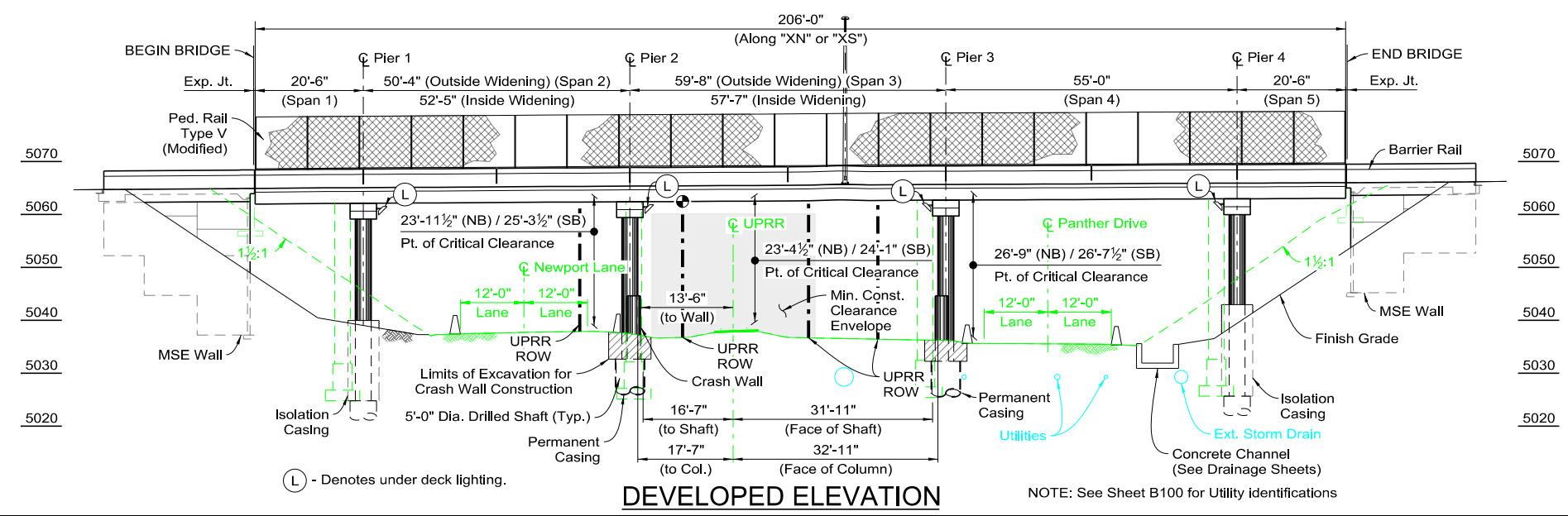
* - Note that crash walls required for existing piers are within the Railroad's "Minimum Construction Clearance Envelope".

CONSTRUCTION NOTES

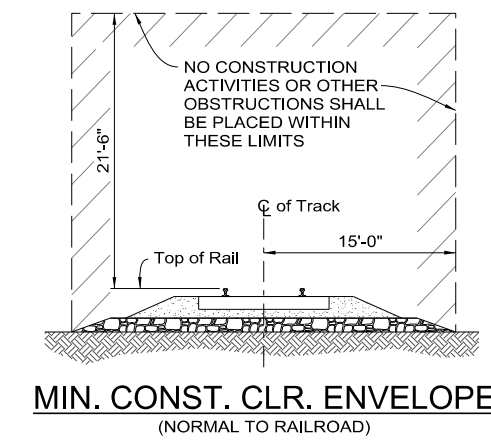
- Any shoring system that impacts the Railroad operations and/or supports Railroad embankment shall be designed and constructed per the Railroad's "Guidelines for Temporary Shoring".
- All demolition within the Railroad right-of-way and/or demolition that may impact the Railroad tracks or operations shall comply with the Railroad demolition requirements.
- Erection over the Railroad right-of-way shall be designed to cause no interruption to all Railroad operations.
- The elevation of the existing top-of-rail profile shall be verified before beginning construction. All discrepancies shall be brought to the attention of the Railroad prior to construction.
- The proposed grade separation project shall not change the quantity and/or characteristics of the flow in the Railroad ditches and/or drainage structures.
- The Contractor must submit a proposed method of erosion and sediment control and have the method approved by the Railroad prior to beginning any grading on the project site.
- For Railroad coordination please refer to the Railroad's Coordination Requirements as part of the Specifications or Special Provisions of the project.
- Temporary Construction Clearances, including falsework clearances, shall comply with Minimum Construction Clearance Envelope, shown below.
- All permanent clearances shall be verified before project closeout.
- For location of Points of Critical Clearance relative to the track centerline see Developed Elevation on Sheet B100.
- For Typical Section, see Sheet B101.
- For Railroad Profile Grade Diagrams, see Sheet B104B.
- For top and bottom of crash wall elevations relative to top of rail, see Typical Section, Sheet B101.



PLAN



DEVELOPED ELEVATION



MIN. CONST. CLR. ENVELOPE
(NORMAL TO RAILROAD)

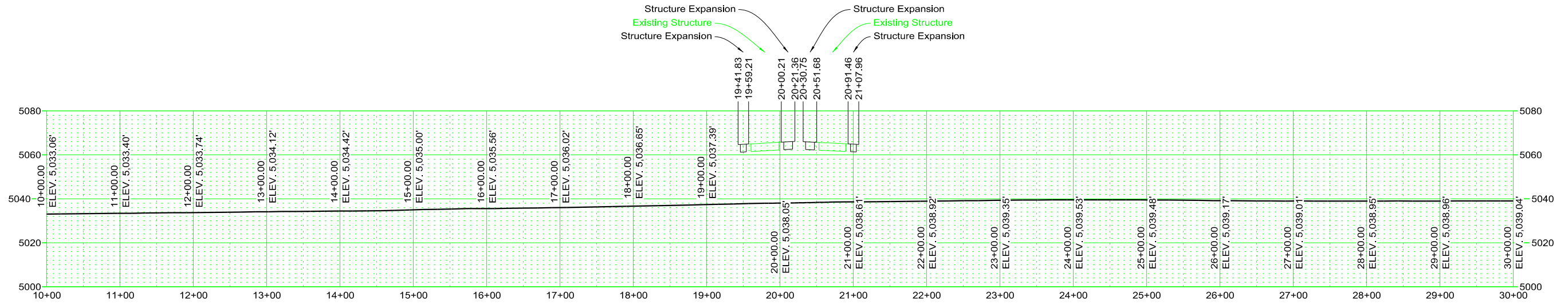
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UPRR SUBDIVISION:	RENO IND. LD.
PROJECT CITY:	RENO
REVISION DATE:	1/26/2023
LAT. / LONG.:	39°35'12.77" N / 119°49'25.69" W

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

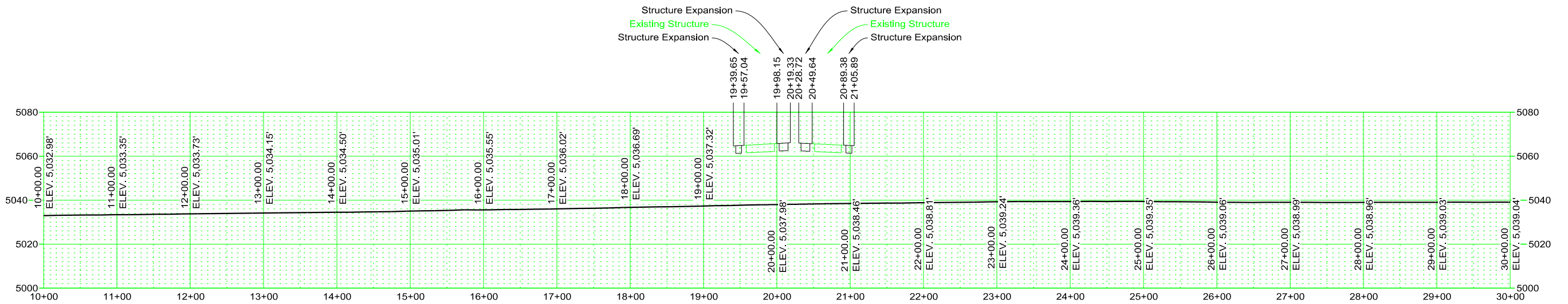
UPRR COORDINATION PLAN

G-1092 N&S

DATE : 1/26/2023



NORTH RAIL PROFILE



SOUTH RAIL PROFILE

UPRR TRACK PROFILES			
NORTH TRACK		SOUTH TRACK	
STATION	ELEVATION	STATION	ELEVATION
10+00.00	5033.06	10+00.00	5032.98
11+00.00	5033.40	11+00.00	5033.35
12+00.00	5033.74	12+00.00	5033.73
13+00.00	5034.12	13+00.00	5034.15
14+00.00	5034.42	14+00.00	5035.50
15+00.00	5035.00	15+00.00	5035.01
16+00.00	5035.56	16+00.00	5035.55
17+00.00	5036.02	17+00.00	5036.02
18+00.00	5036.65	18+00.00	5036.69
19+00.00	5037.39	19+00.00	5037.32
20+00.00	5038.05	20+00.00	5037.98
21+00.00	5038.61	21+00.00	5038.46
22+00.00	5038.92	22+00.00	5038.81
23+00.00	5039.35	23+00.00	5039.24
24+00.00	5039.53	24+00.00	5039.36
25+00.00	5039.48	25+00.00	5039.35
26+00.00	5039.17	26+00.00	5039.06
27+00.00	5039.01	27+00.00	5038.99
28+00.00	5038.95	28+00.00	5038.96
29+00.00	5038.96	29+00.00	5039.03
30+00.00	5039.04	30+00.00	5039.04

PROFILE NOTES

- Top of Rail Field Surveys by Nevada Department of Transportation, Location Division, July 2019.
- Track centerlines generated from aerially mapped track planimetrics. Stationing assumed.
- Reported rail elevations interpolated from Lidar data and mapping points, reported at 100'-0" station intervals.
- Additional track profile info is shown on sheet RR01.

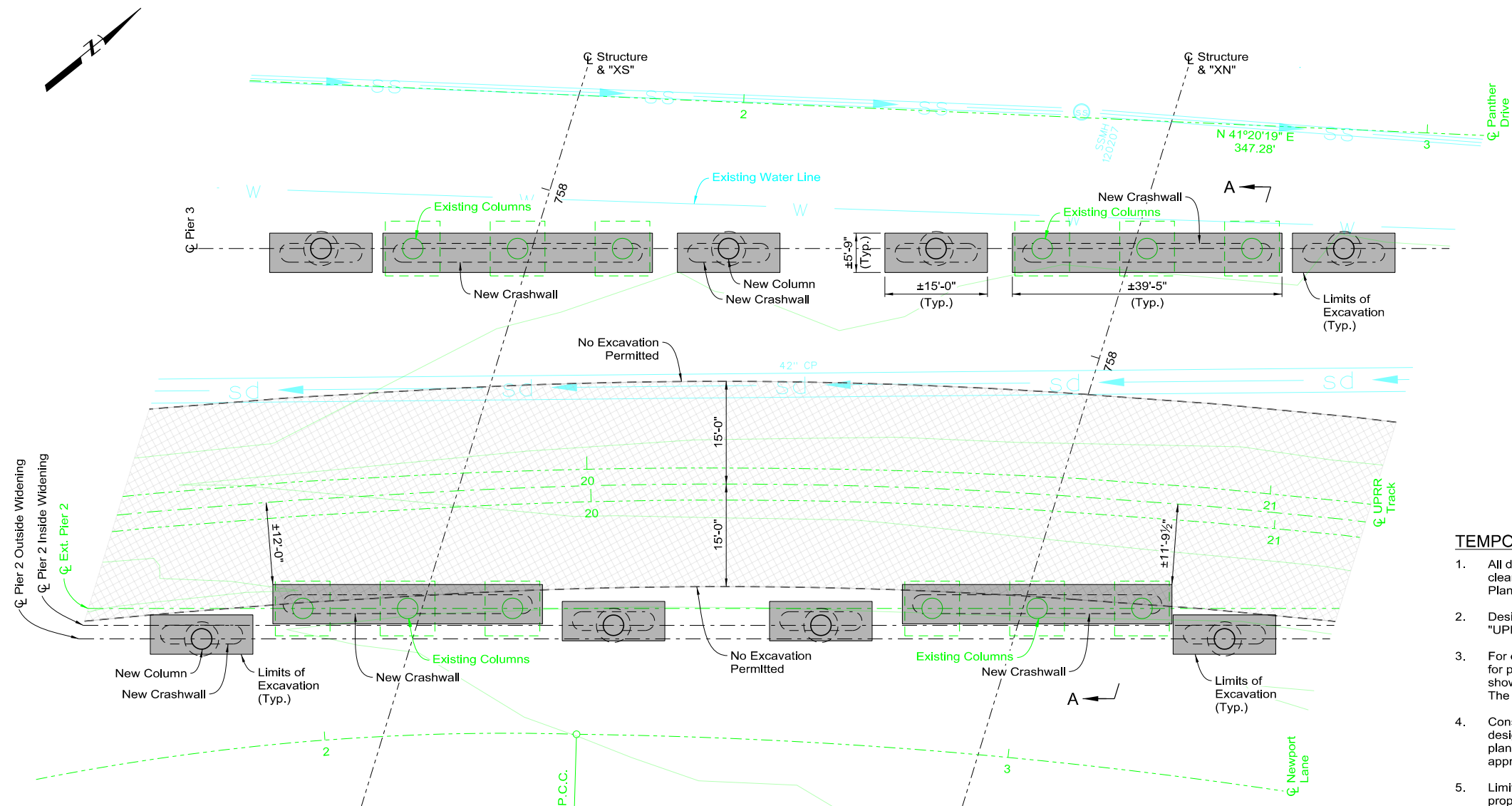
UPRR MILEPOST:	8.15
UPRR SUBDIVISION:	RENO IND. LD.
PROJECT CITY:	RENO
REVISION DATE:	1/26/2023
LAT. / LONG.:	39°35'12.77" N / 119°49'25.69" W

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**RAILROAD
PROFILES**

G-1092 N&S

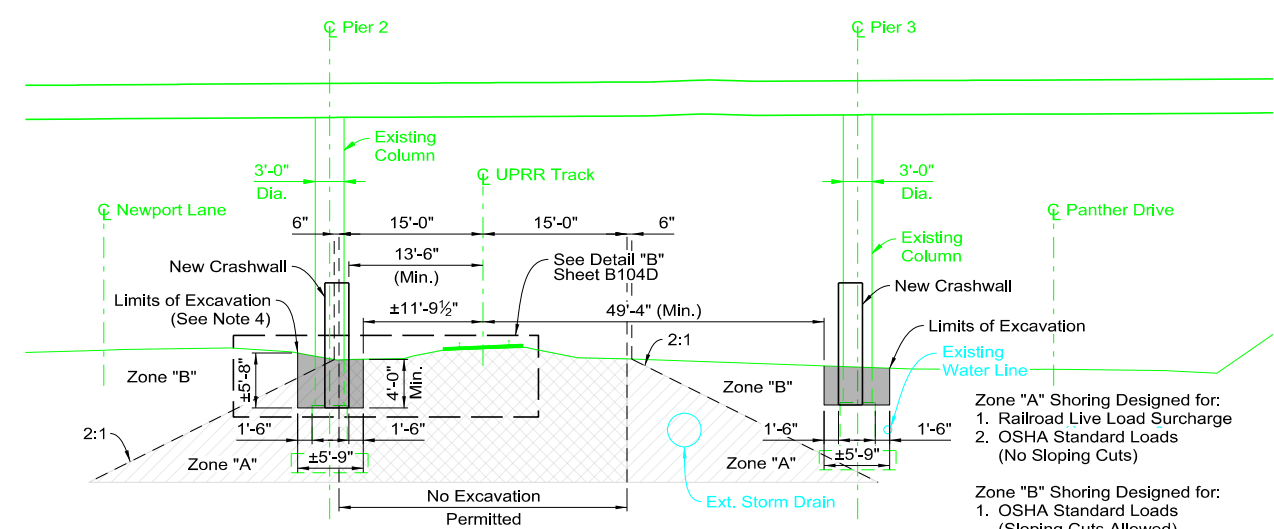
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	B104C



PLAN

TEMPORARY SHORING NOTES

- All dimensions relative to the Railroad are measured perpendicular to the centerline of the track. For horizontal clearance between substructure elements and centerline of the track see Sheet B104A, "UPRR Coordination Plan".
- Design of all temporary shoring within limits of Zone "A" subject to all loading and requirements per the "UPRR & BNSF Guidelines for Temporary Shoring".
- For excavations which encroach into Zone "A", the Contractor shall submit design calculations and drawings for proposed temporary shoring for approval by UPRR prior to commencing any excavations within limits shown. Plans and calculations shall be signed and stamped by a Professional Engineer licensed in Nevada. The Contractor shall install the temporary shoring system per the approved plans.
- Construction of Pier 2 crashwalls are within 15'-0" of the track centerline, requiring excavations within the Zone designated "No Excavation". Refer to Sheet B104D, "Pier 2 Crash Wall Shoring Plan" for conceptual shoring plans to construct the Pier 2 crashwalls. Any changes or deviations from the conceptual plans will require approval and concurrence by UPRR.
- Limits of excavation and temporary shoring layout shown herein are for conceptual purposes only. Layout of proposed shoring system is subject to all requirements of UPRR.
- Design loading and deflection limits shall comply with UPRR Temporary Shoring Guidelines and AREMA Manual for Cooper E80 loading.
- Refer to requirements for track and ground monitoring, see the "Union Pacific Railroad Guidelines for Track & Ground Monitoring."
- Shoring removal is subject to all UPRR requirements.



ELEVATION A-A

LEGEND

- Limits of Excavation
- Limits of No Permissible Excavation
- Limits of Zone "A" Shoring

UPRR MILEPOST:	8.15
UPRR SUBDIVISION:	RENO IND. LD.
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STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

RAILROAD SHORING ZONES

G-1092 N&S

DATE : 1/26/2023

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	B104D

GENERAL NOTES:

- Design Specifications: UPRR & BNSF Guidelines for Temporary Shoring, 2021 Ed. AREMA Manual for Railroad Engineering, 2021 Ed. AISC Steel Construction Manual, 15th Ed. National Design Specification for Wood Construction, 2015 Ed. National Design Specifications Supplement Design Values for Wood Construction, 2015 Ed.
- Dead Load Surcharge Loading: Spoil Pile is equal to 2-feet adjacent to the excavation. Track is equal to 200 lbs/linear foot for rails, Inside guardrails, and fasteners. Roadbed is equal to 1.81-feet for the ballast and track ties.
- Live Load Surcharge Loading: Cooper E80 live load 10'-9" perpendicular from centerline of track to outside face of shoring. Loading parallel to shoring alignment.
- Structural Steel: HP piles shall be ASTM A572 Gr. 50. Maximum allowable bending stress shall not exceed 0.55 Fy. Maximum allowable shear stress shall not exceed 0.35 Fy.
- Timber Lagging: Timber lagging shall be Douglas Fir Larch Gr. 1 or better.
- Temporary overstress allowances for any shoring element are not allowed.
- Deflection Criteria: Total deflection of the shoring system, including pile and lagging shall not exceed ¼" under service load condition.
- Design Data: Temporary shoring is designed based on following UPRR parameters.
Level Front and back slopes with ground water table below shoring.
Soil Properties: Unit Weight: $\gamma = 125$ pcf, Internal Friction Angle: $\phi = 34^\circ$, Cohesion: $c = 0$ psf, Active Pressure Coefficient: $K_a = 0.25$, Passive Pressure Coefficient: $K_p = 7$.

Groundwater was encountered in all borings advanced for Bridge G1092 at elevations ranging from 5004-feet to 5024-feet in July 2019. Groundwater levels may fluctuate seasonally and in response to recent precipitation events. It should be anticipated that groundwater may be encountered during construction and use of temporary shoring. Furthermore, refer to Supplemental Geotechnical Memo from HDR titled "Geotechnical Recommendations for Temporary Shoring, US395 North Valleys, Washoe County, Nevada" dated July 2022.

For additional information on subsurface conditions and boring locations, refer to Geotechnical Report from HDR titled "Draft Geotechnical Design Report, Phase 1B: US395 North Valleys, Washoe County, Nevada" dated January 2021.

See Railroad Profiles sheet for UPRR track profile information.
- Notify Engineer if HP piles do not attain the minimum embedment depth required.
- Dimension "X" is the offset measured perpendicular from the centerline of the track to the outside face of the drilled hole at all changes in horizontal alignment and nearest substructure elements.
- All dimensions relative to the Railroad are measured perpendicular to the centerline of the track.
- Any deviation from the plans as shown requires design by a Nevada Registered Professional Engineer, resubmittal, and prior approval by the Engineer and Railroad prior to proceeding with said deviation. Approval from the Railroad may not be granted.
- Contractor to submit plans and details for handrail and protective fence along all edges of the excavation for review and approval by the Engineer and Railroad prior to proceeding with excavation.
- Contractor is responsible to protect the Railroad ballast and subballast from contamination.
- All removed soils shall be disposed of outside the Railroad Right-of-Way.
- The Contractor must monitor the track, ground, and shoring for movement during construction. Any damage to Railroad property such as track, signal equipment, or structure could result in a train derailment. All damage must be reported immediately to the Railroad representative in charge of the project and to the Railroad Track Maintenance Representative.
 - A Track Monitoring Program and Contingency Plan shall be submitted as a separate project submittal for UPRR review.
 - Railroad approval of the track monitoring program and contingency plan(s) is required prior to commencement of work.

Track monitoring and Contingency Plan(s) shall comply with the UPRR Minimum Criteria for Track, Shoring & Existing Structure Monitoring notes herein.
- Contractor to pothole and locate edges of existing bridge spread footings prior to drilling for temporary shoring piles.
- Contractor to submit excavation plan showing proposed limits of excavation, excavation slopes and cross sections for review and approval by the Engineer and Railroad prior to proceeding with excavation. The plan shall include a detailed construction sequence for installation and removal of temporary shoring system.
- Any required changes to limits of shoring shall be brought to the attention of the Engineer and are subject to review and approval and resubmittal to UPRR for review and approval.
- Shoring to be removed at least 3-feet below the final finished grade or at least 3-feet below the base of rail, whichever is lower. Existing site drainage to be restored to pre-construction conditions.
- Contractor to submit material specifications for excavatable backfill, concrete backfill, and compaction criteria for review and approval by the Engineer and Railroad. Refer to Section 207 of the NDOT Standard Specifications for excavatable backfill criteria.
- Temporary or permanent casing is required for drilled soldier pile holes, and shall be designed by the contractor using a minimum lateral pressure of 1ksf. Size, grade and thickness of the casing shall be submitted for review and approval.
- For additional Railroad standards and requirements concerning design and construction of temporary shoring, refer to the current edition of UPRR & BNSF Guidelines for Temporary Shoring.
- Payment for all shoring required to construct Pier 2 Crashwalls is incidental to the crashwall bid items.
- If Contractor proposes secondhand material, Railroad review and approval of a full inspection report will be required for all secondhand material prior to installation. The inspection report shall include documentation of the material properties, their condition, and shall be signed and sealed by a Nevada Registered Professional Engineer.

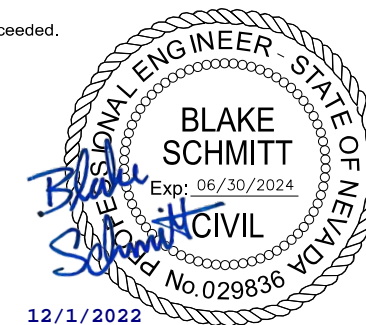
UPRR MINIMUM CRITERIA FOR TRACK, SHORING & EXISTING STRUCTURE MONITORING:

- Monitoring Program:
Track, shoring and existing structures shall be monitored for settlement and/or displacement during an adjacent excavation, pile driving or other activity as dictated by the Railroad. A detailed monitoring plan shall be submitted for review by the Railroad prior to the start of any work. The monitoring plan shall comply with the following minimum requirements, however more stringent criteria may be required by the Railroad on a case by case basis:
 - Track, Shoring & Existing Structure Deflection/Settlement Limits:
 - The top of rail shall not permanently deflect more than ¼ inch vertical or horizontal.
 - Any point of the shoring shall not deflect more than ¼ inch for shoring located at 15' from centerline of track or closer.
 - Any point of the shoring shall not deflect more than ⅜ inch for shoring located between 15' and 18' from centerline of track.
 - Any point of the shoring shall not deflect more than ½ inch for shoring located more than 18' from centerline of track, unless the shoring is supporting a cut entirely located in Zone B.
 - Any point of existing substructure supporting Railroad Track(s) shall not permanently deflect more than ⅜ inch vertical or horizontal.
 - Targets:
 - Each track shall have monitoring targets at each rail.
 - Track monitoring shall not require track access other than to place the track monitoring targets.
 - Monitoring targets should be placed such that monitoring is possible when a train is present. However, monitoring during the passing of a train is not required as the train will temporarily deflect the track.
 - Adhesive backed reflective targets may be attached to the side of the rails temporarily. Targets should be removed once monitoring phase is complete.
 - Each shoring system shall have monitoring targets at the top of the shoring and, if a braced system, at points of bracing.
 - Monitor any existing substructures supporting Railroad Track(s) within the vicinity of the work with a minimum of 4 monitoring targets per existing substructure element.
 - The distance between monitoring points on rail and shoring shall be spaced no more than 10 feet apart and rail monitoring points must extend at least 20 feet beyond end of shoring system(s).
 - A plan view shall be developed for Railroad review showing the location of all monitoring points.
 - Execution:
 - If shutdown values are reached, all construction operations shall stop until the matter is resolved.
 - Provide an established contingency plan to the Railroad.
 - Establish a benchmark in the vicinity of the construction. Establish locations for shooting elevations on the targets at each area of construction.
 - Survey equipment and control used for monitoring shall be accurate to 0.01'. GPS quality is not acceptable.
 - Monitoring survey data shall be processed into an easy to interpret digital format and be submitted to the Railroad upon request. The document shall be formatted to keep all prior survey results in one, easy to reference location.
 - Monitoring shall commence once any construction activity is within Zone A.
 - During construction and use of the shoring, monitoring may need to be performed continuously. However, during construction and use of the shoring, monitoring shall never be performed less than least three times a day.
 - Monitoring shall continue after final backfill is complete, at a minimum once a day for 7 days or as required by the Railroad.
- Contingency Plans:
 - The Contractor shall supply Contingency Plan(s), which anticipate reaching the Threshold and Shutdown values, for all construction activities which may result in horizontal and/or vertical track, shoring or existing structure deflection and/or settlement.
 - Track monitoring values:
 - Threshold value = ⅜ inch permanent vertical or horizontal deflection.
 - Shutdown value = ¼ inch permanent vertical or horizontal deflection.
 - Shoring Monitoring values:
 - Shutdown value = ¼ inch permanent horizontal deflection for shoring located at 15 feet or closer to track centerline.
 - Shutdown value = ⅜ inch permanent horizontal deflection for shoring located between 15 feet and 18 feet from centerline of track.
 - Shutdown value = ½ inch permanent horizontal deflection for shoring located further than 18 feet from track centerline, unless the shoring is supporting a cut entirely located in Zone B.
 - Existing Structure Monitoring values:
 - Shutdown value = ¼ inch permanent vertical or horizontal deflection and/or settlement.
 - The Contingency Plans shall provide the Contractor's detailed means and methods, with options if necessary.
 - The Contractor shall anticipate the need to implement each Contingency Plan with required materials, equipment and personnel.
 - Once the Threshold value is met the Contractor shall determine the appropriate Contingency Plan(s) and immediately discuss this plan with, and receive confirmation from, the Railroad.
 - Once the Shutdown value is exceeded, all project work shall stop and the chosen Contingency Plan shall commence.
 - The Railroad may choose to allow and/or require the immediate implementation of specific approved Contingency Plans, submitted by the Contractor, once the Shutdown value is exceeded.

CALL BEFORE YOU DIG:

Contractor to verify any underground utilities before construction begins. A Union Pacific Railroad 24-hr by 7-day communication center to assist in protecting, documenting and notifying callers of other utilities installed within the Railroad right-of-way. 1-800-336-9193

UPRR MILEPOST:	8.15
UPRR SUBDIVISION:	RENO IND. LD.
PROJECT CITY:	RENO
REVISION DATE:	12/1/2022
LAT. / LONG.:	39°35'12.77" N / 119°49'25.69" W



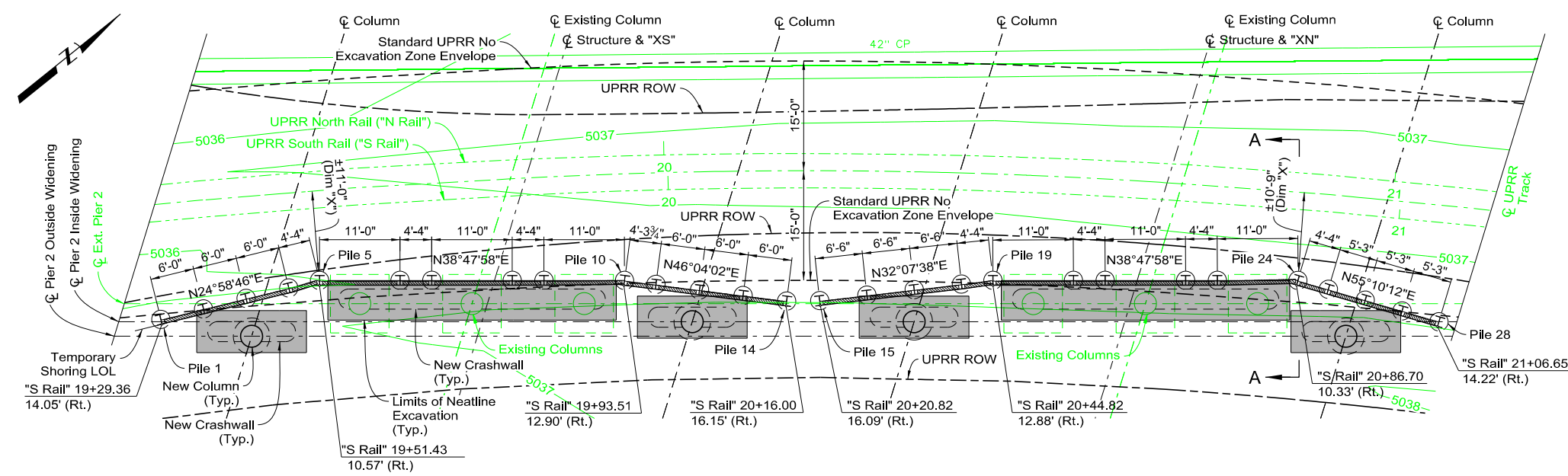
12/1/2022

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

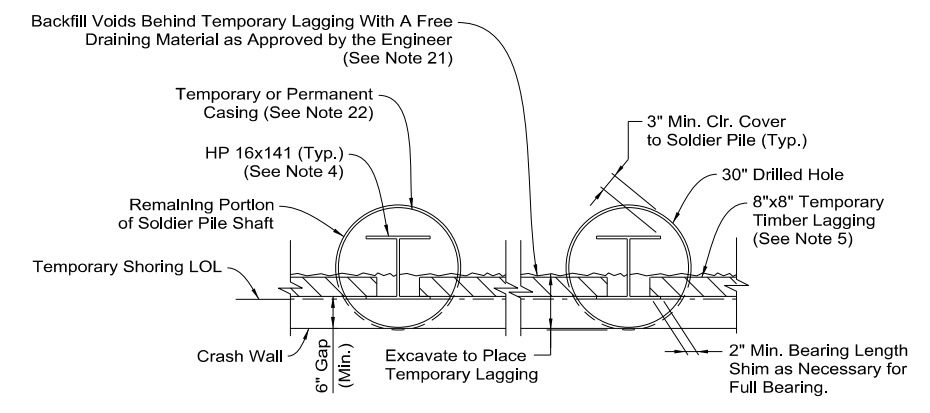
**PIER 2
CRASHWALL SHORING
GENERAL NOTES**

G-1092 N&S

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NHP-0191(104)	WASHOE	B104E



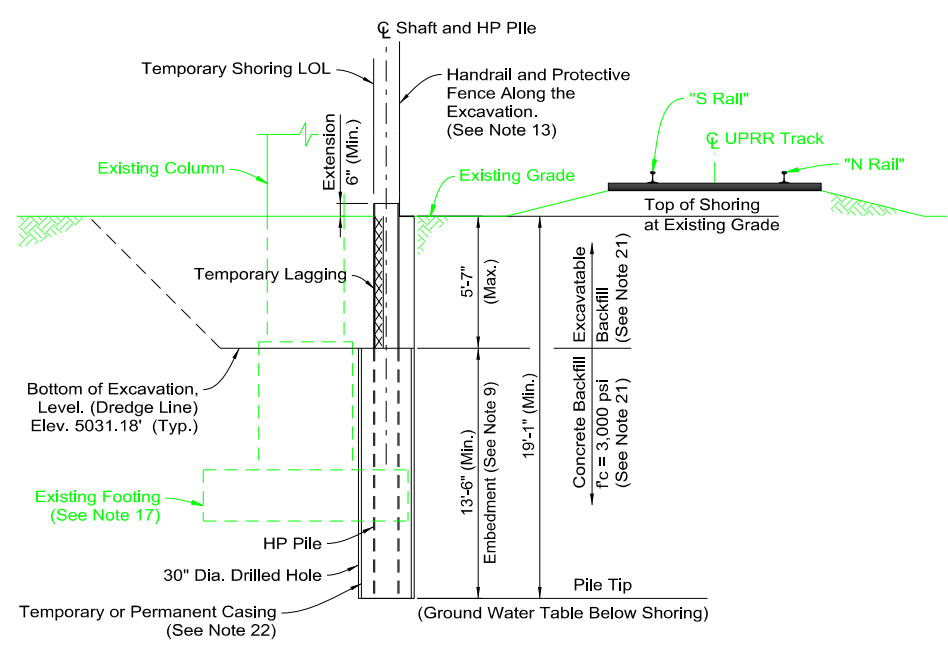
PLAN



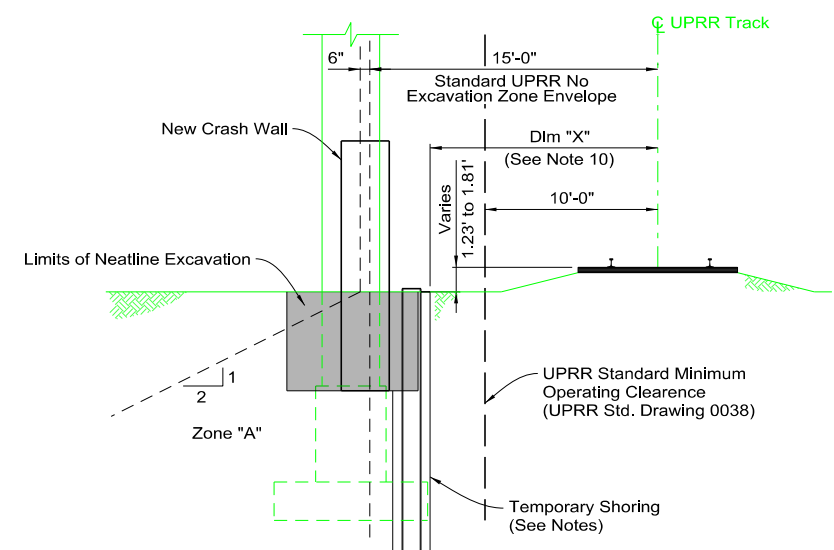
PLAN SOLDIER PILE WALL

SHORING DIMENSIONS

Location	Dim. "X"
Pile 1	14.48'
Pile 5	11.00'
Pile 10	13.33'
Pile 14	16.58'
Pile 15	16.53'
Pile 19	13.31'
Pile 24	10.75'
Pile 28	14.66'



SECTION A-A
SEE DETAIL "B" FOR UPRR GEOMETRIC CONSTRAINTS



DETAIL "B"
TEMPORARY SHORING
UPRR GEOMETRIC CONSTRAINTS

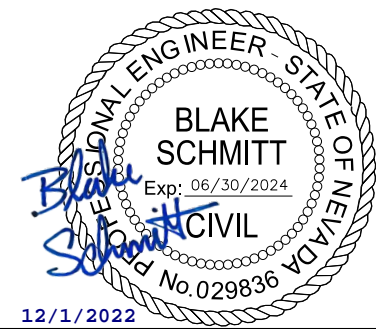
CALL BEFORE YOU DIG:

Contractor to verify any underground utilities before construction begins. A Union Pacific Railroad 24-hr by 7-day communication center to assist in protecting, documenting and notifying callers of other utilities installed within the Railroad right-of-way. 1-800-336-9193

LEGEND:

█ - Limits of Neatline Excavation

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PROJECT CITY:	RENO
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LAT. / LONG.:	39°35'12.77" N / 119°49'25.69" W

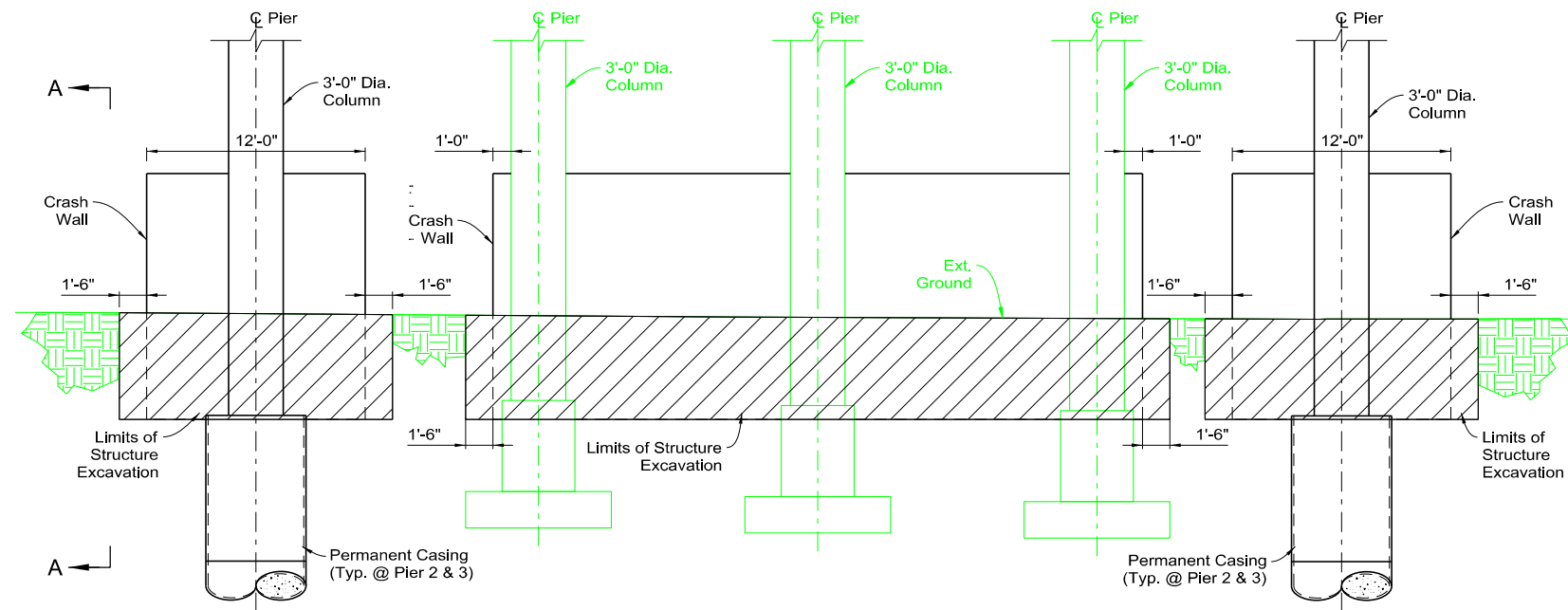


STATE OF NEVADA
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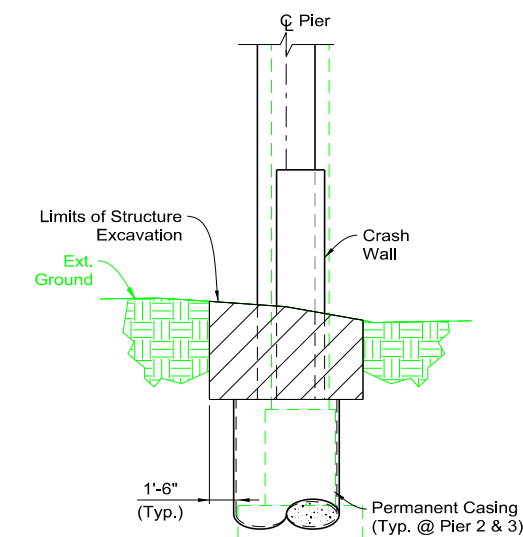
**PIER 2
CRASHWALL SHORING
PLAN**

G-1092 N&S

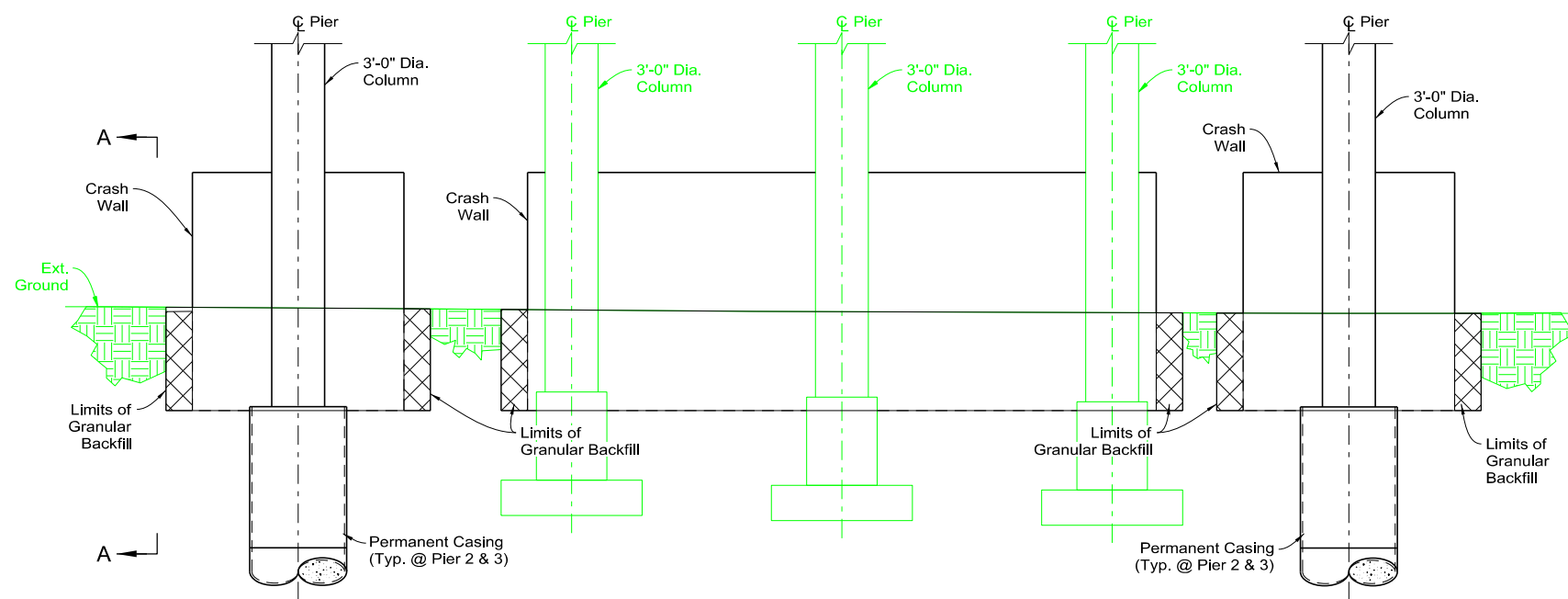
12/1/2022



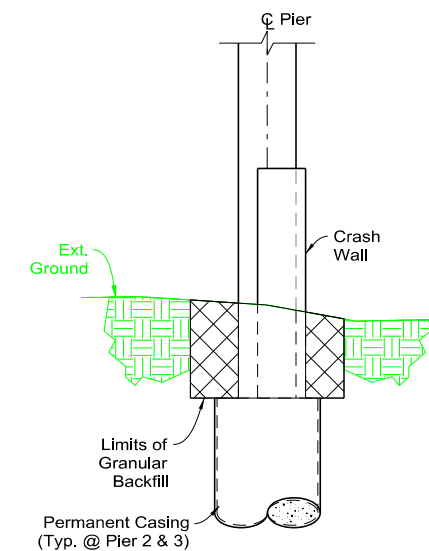
COLUMN EXCAVATION SCHEMATIC
PIERS 2 AND 3



SECTION A-A
EXCAVATION SCHEMATIC



COLUMN BACKFILL SCHEMATIC
PIERS 2 AND 3



SECTION A-A
BACKFILL SCHEMATIC

LEGEND

- Structure Excavation
- Granular Backfill

EARTHWORK SUMMARY

Quantity (Cu. Yd.)	Pier 1	Pier 2	Pier 3	Pier 4
NB Structure Excavation	30	81	63	26
NB Granular Backfill	0	47	36	0
SB Structure Excavation	30	82	64	26
SB Granular Backfill	0	47	37	0

NOTES

1. Any shoring system that impacts the Railroad operations and/or supports Railroad embankment shall be designed and constructed per the Railroad temporary shoring requirements.
2. Trenches more than 4'-0" deep shall be shored, laid back to at least the angle of repose for existing field conditions, or some other means of protection shall be provided.
3. If hazardous field conditions indicate ground movement may be expected, trenches less than 4'-0" deep shall also be protected as indicated in Note 2.
4. For the purpose of payment, structure excavation and backfill quantities are based on these drawings and no additional payment will be made for shoring.
5. Trench excavation shoring shall conform to OSHA Regulations 29 CFR Part 1926, Subpart P.
6. The quantity of structure excavation and backfill measured for payment shall be the number of cubic yards calculated minus any duplication of limits which overlap.
7. The limits of structure excavation and backfill shown herein shall be used for the method of measurement and payment only. There shall be no additional compensation for any additional excavation or backfill required for excavations to meet OSHA regulations.

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

**EXCAVATION
AND
BACKFILL**

G-1092 N&S