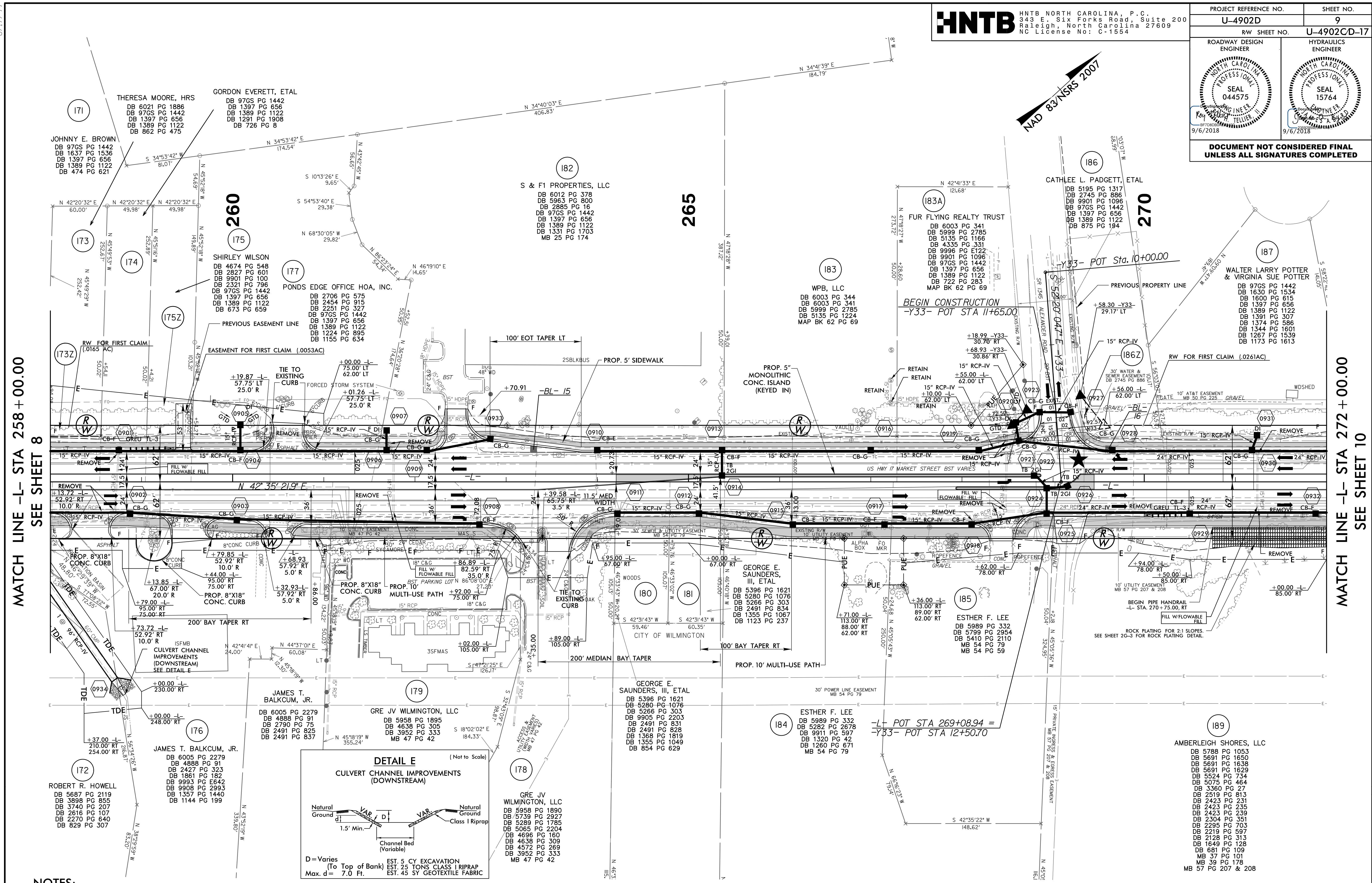
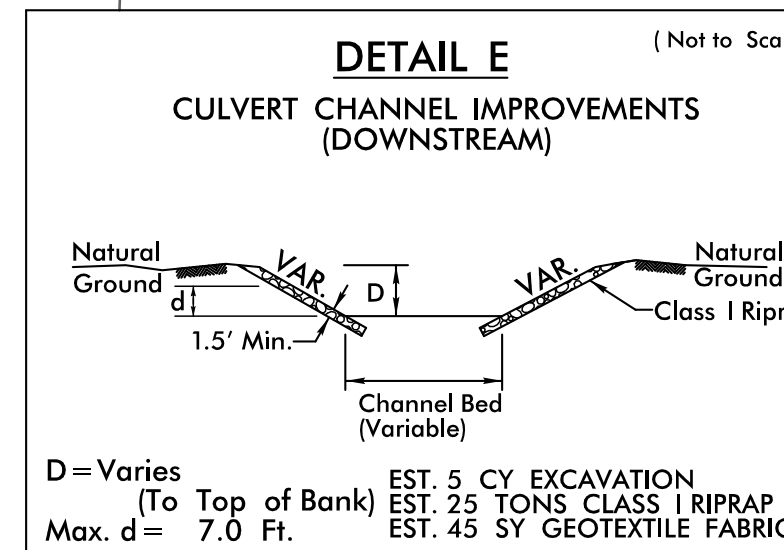


PROJECT REFERENCE NO. <b>U-4902D</b>	SHEET NO. <b>9</b>
RW SHEET NO. <b>U-4902CD-17</b>	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	SEAL 044575
SEAL 044575	SEAL 15764
9/6/2018	9/6/2018
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



MATCH LINE -L- STA 258+00.00  
SEE SHEET 8

MATCH LINE -L- STA 272+00.00  
SEE SHEET 10



- NOTES:**
1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.
  2. ALL DI'S CONSTRUCTED OUTSIDE OF RW BUT WITHIN PUE WILL REVERT TO AND BE MAINTAINED BY THE RESPECTIVE PROPERTY OWNER AFTER PROJECT CONSTRUCTION IS COMPLETE.

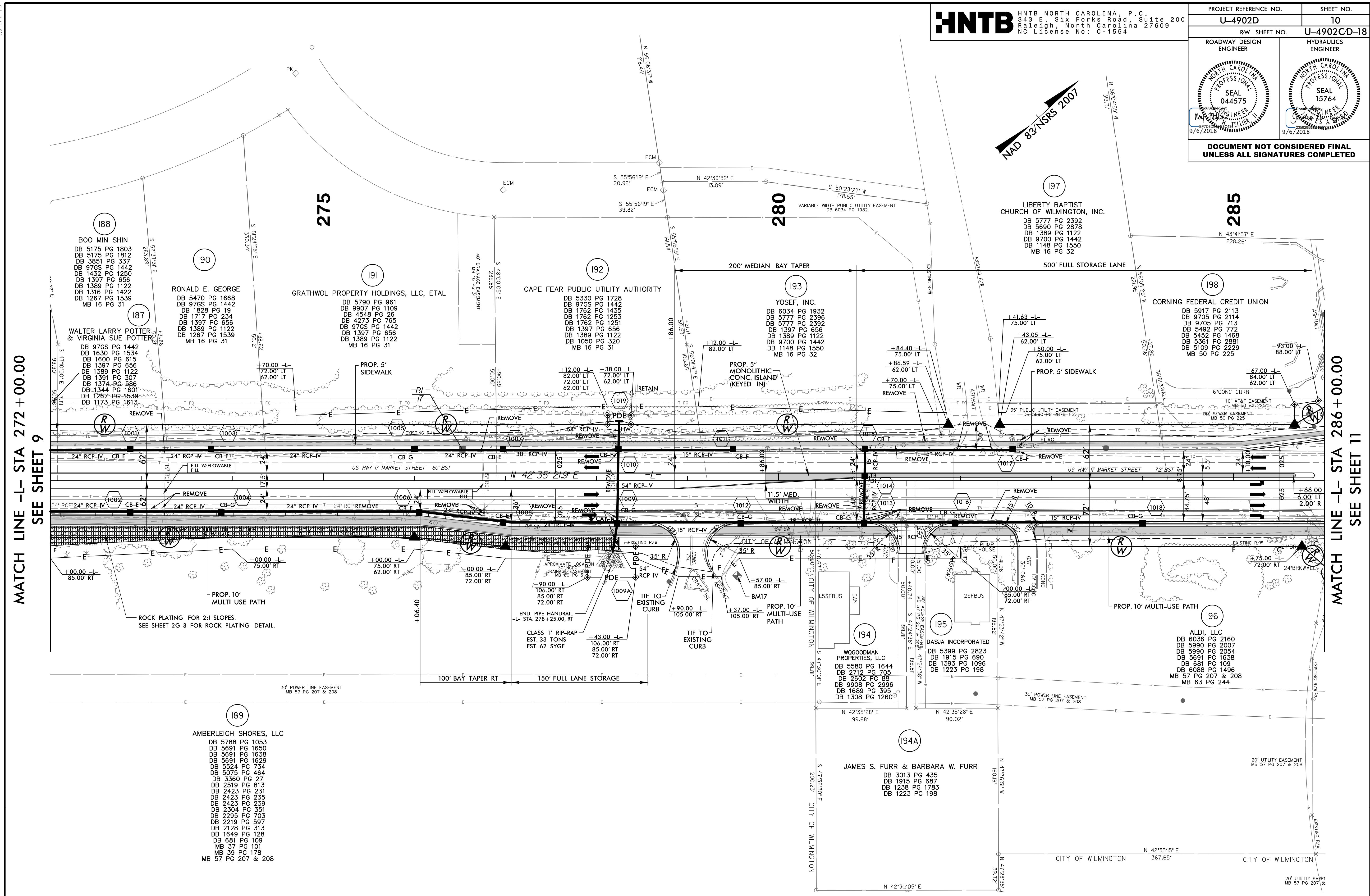


FOR -L- PROFILE, SEE SHEET 14  
 FOR -Y33- PROFILE, SEE SHEET 16  
 FOR INTERSECTION DETAIL FOR -Y33-, SEE SHEET 2B-1  
 FOR DETAIL OF HANDRAIL ADJACENT TO MULTI-USE PATH, SEE SHEET 2C-1

8.17.17.99  
 2018.06.05.14  
 U-4902D.RDY\_PSH\_9.dgn

8/17/19

PROJECT REFERENCE NO.	SHEET NO.
U-4902D	10
RW SHEET NO.	U-4902CD-18
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



MATCH LINE -L- STA 272 + 00.00  
SEE SHEET 9

MATCH LINE -L- STA 286 + 00.00  
SEE SHEET 11

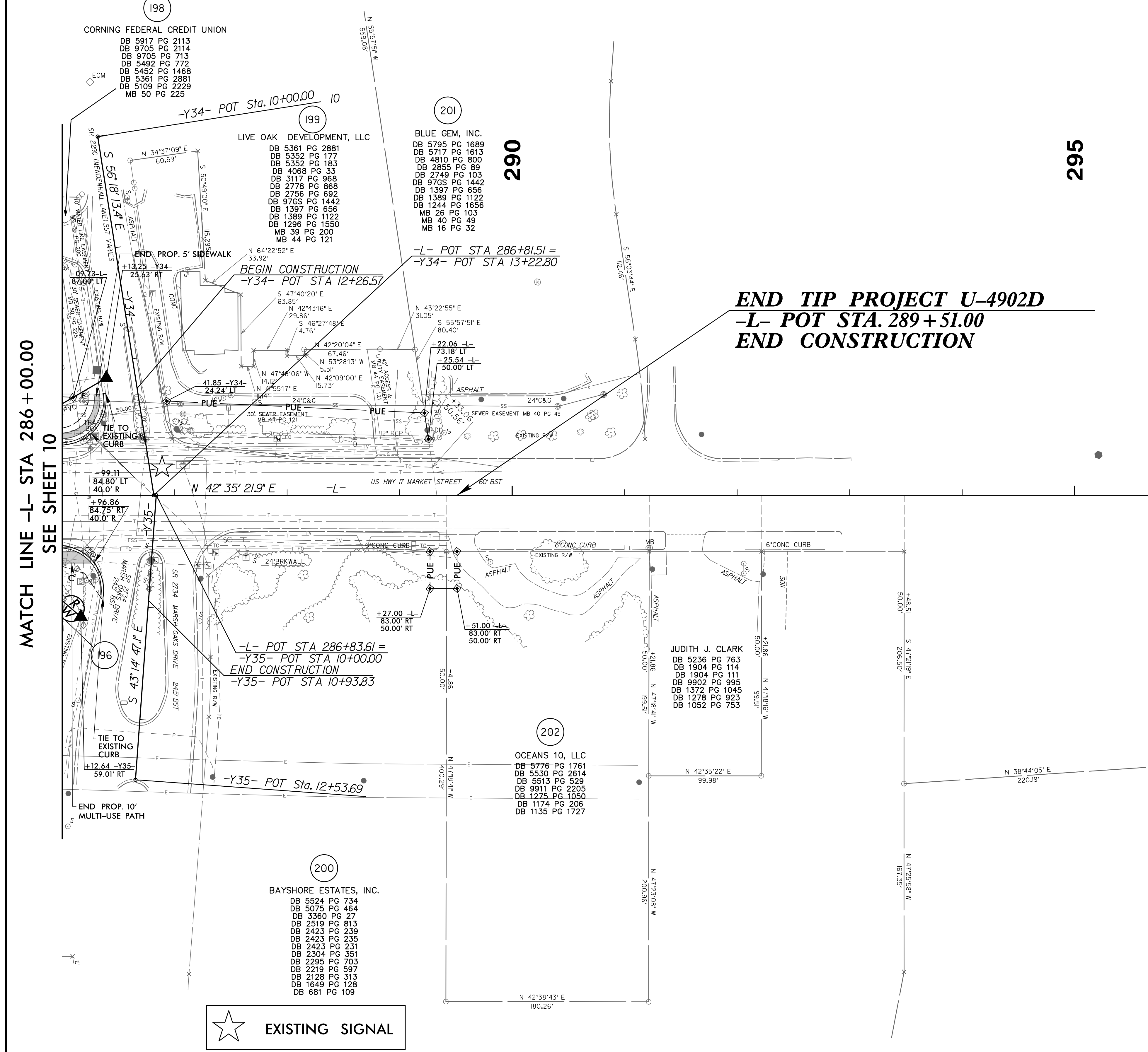
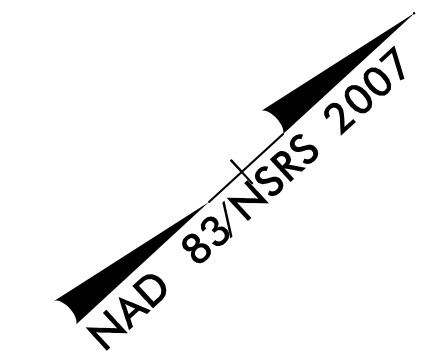
**NOTE:**  
1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.

FOR -L- PROFILE, SEE SHEETS 14 & 15  
FOR DETAIL OF TEMPORARY WIDENING, SEE SHEET 2B-2  
FOR DETAIL OF HANDRAIL ADJACENT TO MULTI-USE PATH, SEE SHEET 2C-1

2018-06-14  
 U:\4902D\_RDW\_PSH\_10.dgn  
 8/17/19

8/17/19

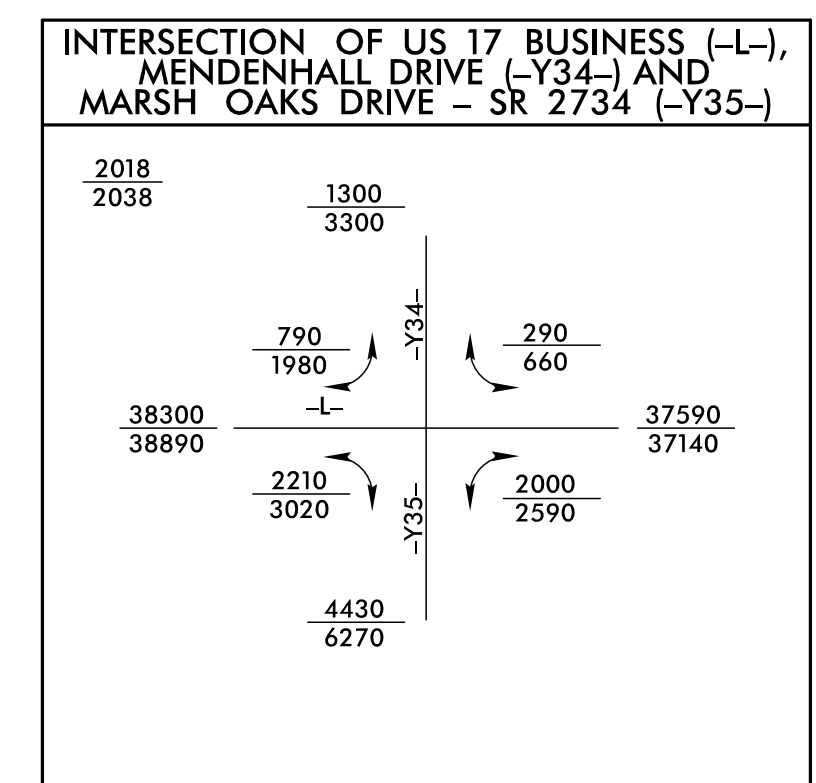
PROJECT REFERENCE NO. <b>U-4902D</b>	SHEET NO. <b>11</b>
RW SHEET NO. <b>U-4902CD-19</b>	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



MATCH LINE -L- STA 286 + 00.00  
SEE SHEET 10

**END TIP PROJECT U-4902D**  
**-L- POT STA. 289 + 51.00**  
**END CONSTRUCTION**

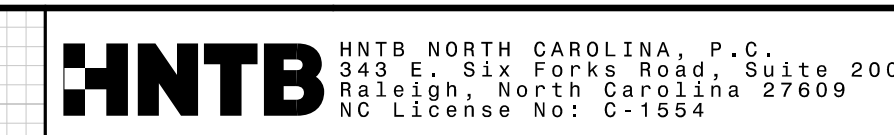
★ EXISTING SIGNAL



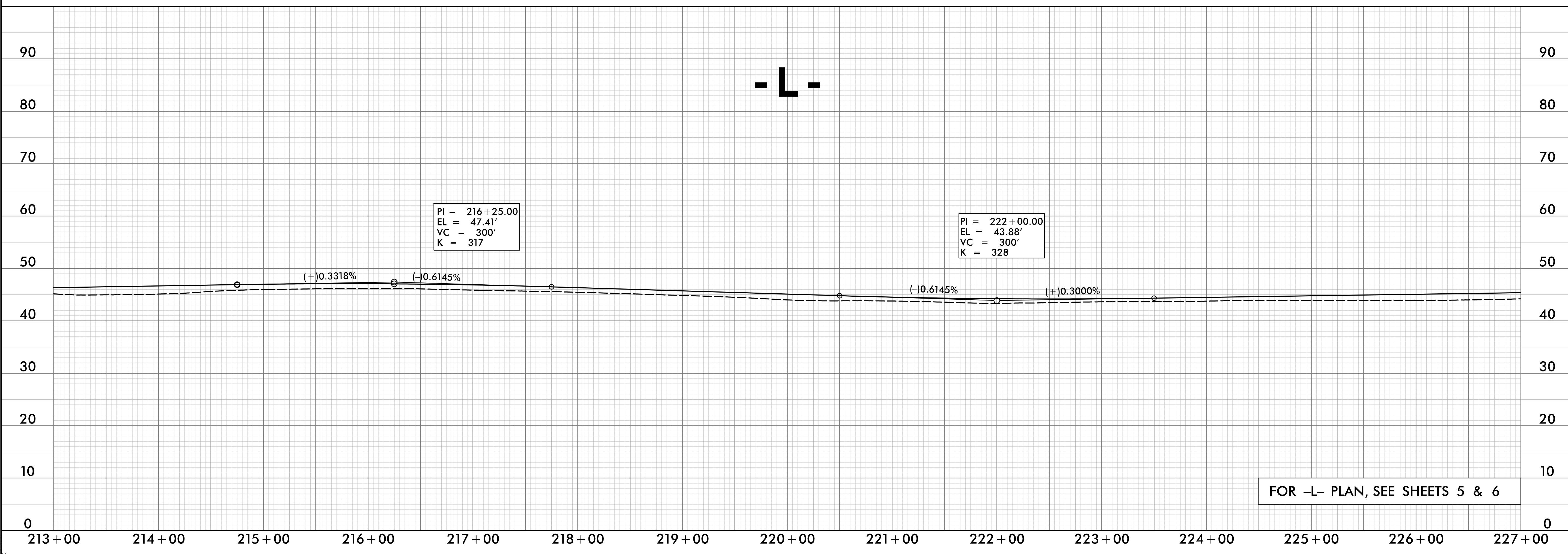
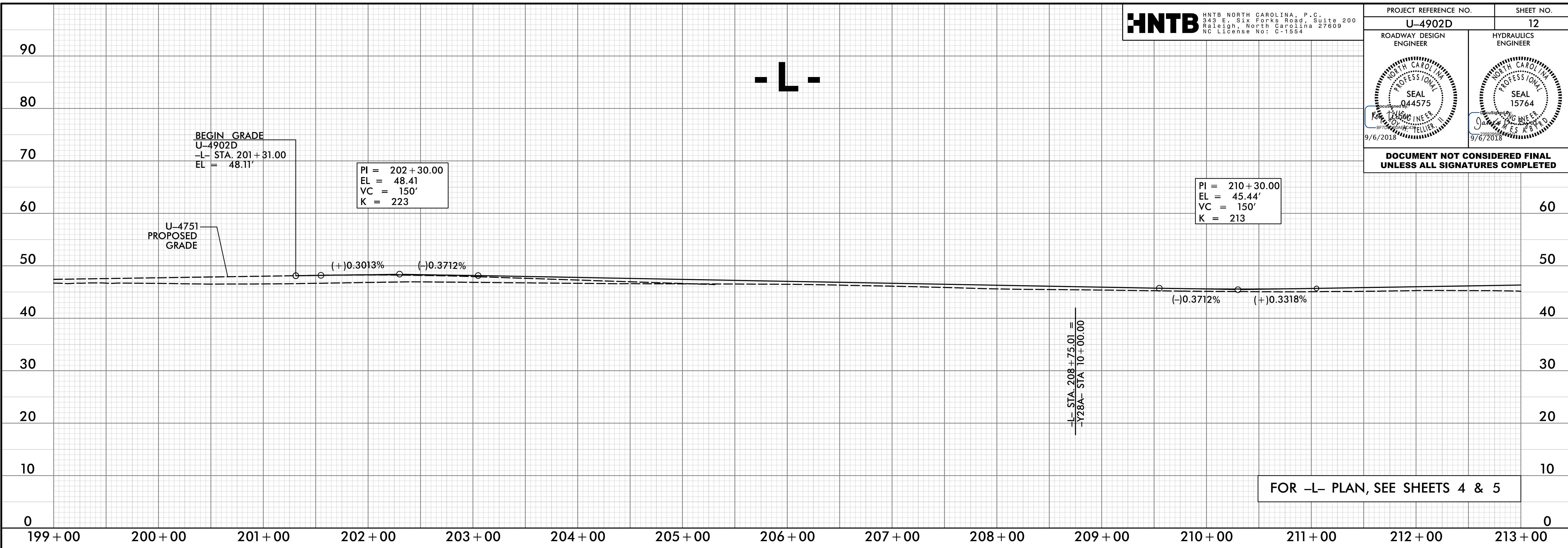
FOR -L- PROFILE, SEE SHEET 15

25-JUL-2018 12:45  
 C:\p00\dwg\2018\19\U4902D\_RDY\_PSH\_11.dgn

5/28/19



PROJECT REFERENCE NO. <b>U-4902D</b>	SHEET NO. <b>12</b>
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

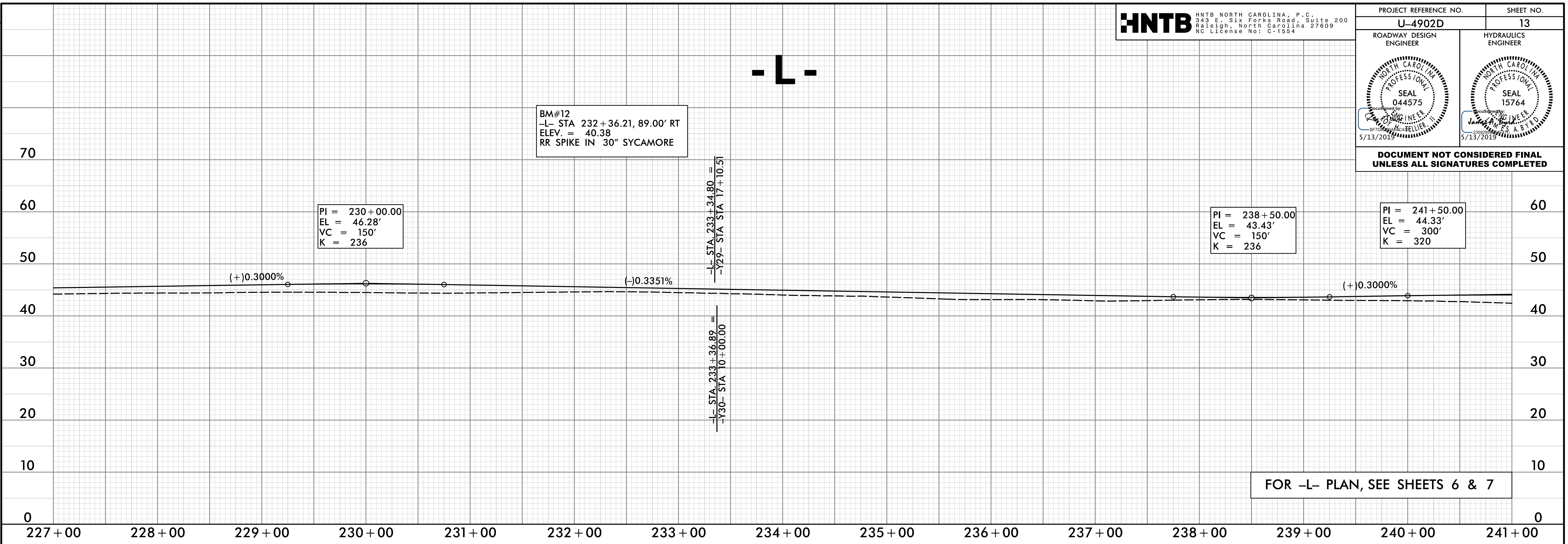


25-JUL-2018 12:46  
\\P01dway\p-coj\U4902D\_RDY\_PEL\_PSH\_12.dgn

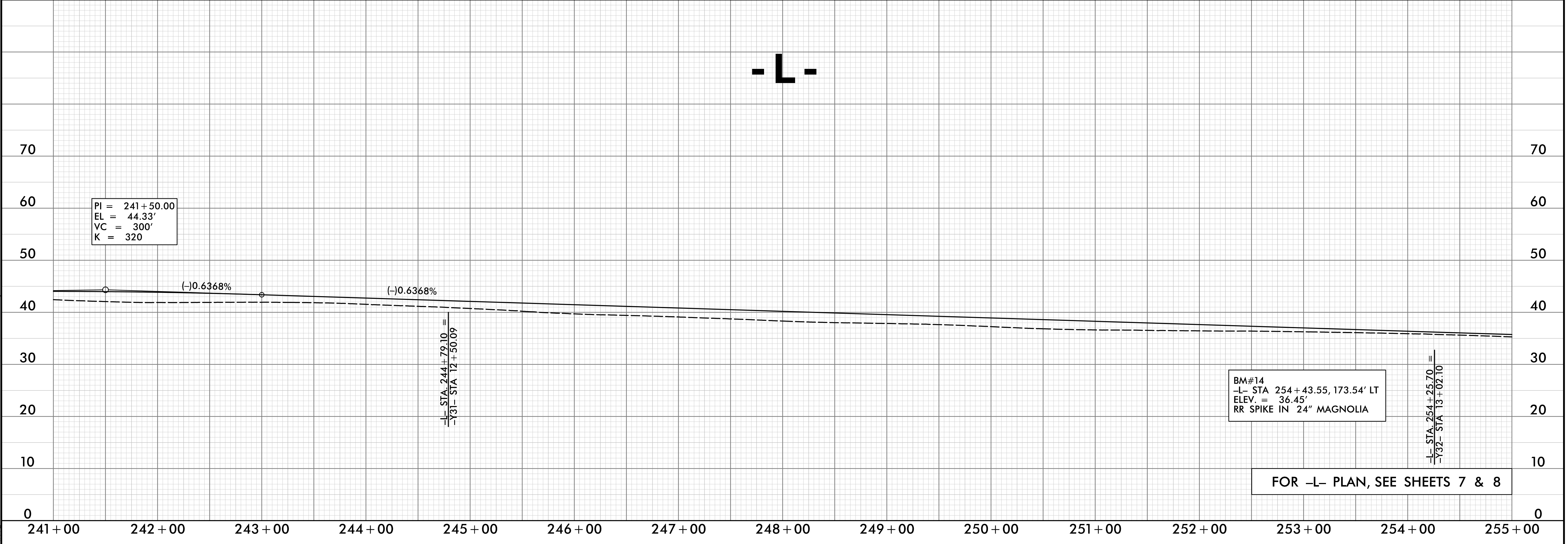
PROJECT REFERENCE NO. <b>U-4902D</b>	SHEET NO. <b>13</b>
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

CONSTRUCTION REVISION NO. 4: REVISED LENGTH OF VERTICAL CURVE (230+00.00) TO 150' RHT



FOR -L- PLAN, SEE SHEETS 6 & 7



FOR -L- PLAN, SEE SHEETS 7 & 8

13-MAY-2019 14:42  
N:\Roadway\Projects\U4902D\RDY\_PEL\_PSH\_13.dgn  
HNTB

5/28/2018

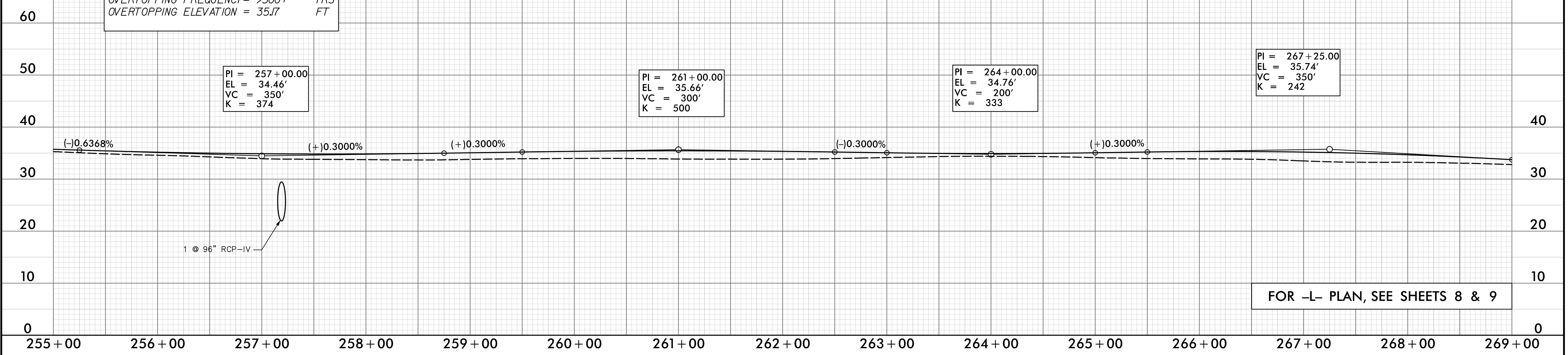


PROJECT REFERENCE NO. <b>U-4902D</b>	SHEET NO. <b>14</b>
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

**CULVERT HYDRAULIC DATA**  
-L- Sta. 257+19

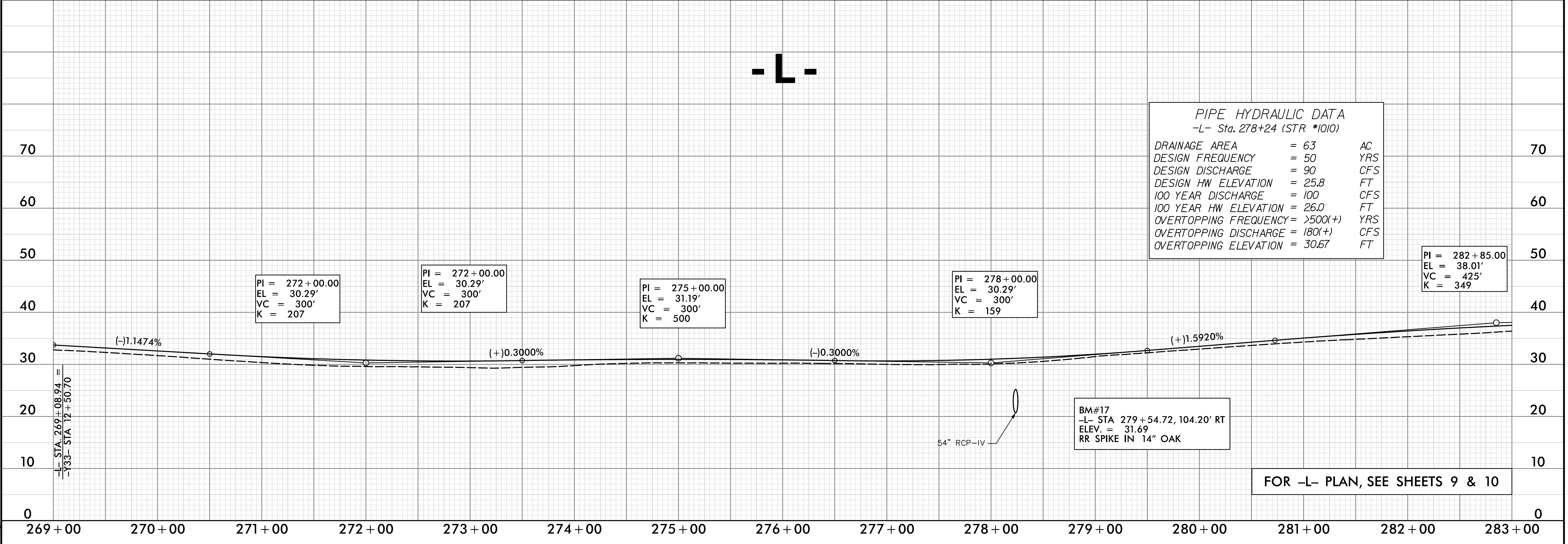
DESIGN DISCHARGE	= 320	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 30.5	FT
BASE DISCHARGE	= 370	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 31.20	FT
OVERTOPPING DISCHARGE	= >480	CFS
OVERTOPPING FREQUENCY	= >500+	YRS
OVERTOPPING ELEVATION	= 35.7	FT



- L -

**PIPE HYDRAULIC DATA**  
-L- Sta. 278+24 (STR \*1010)

DRAINAGE AREA	= 63	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 90	CFS
DESIGN HW ELEVATION	= 25.8	FT
100 YEAR DISCHARGE	= 100	CFS
100 YEAR HW ELEVATION	= 26.0	FT
OVERTOPPING FREQUENCY	= >500(+)	YRS
OVERTOPPING DISCHARGE	= 180(+)	CFS
OVERTOPPING ELEVATION	= 30.67	FT



- L -

25-JUL-2018 12:46  
\\p01dway\p-coj\4902D.RDY\_PEL\_PSH\_14.dgn  
FILE

5/28/19

**HNTB**  
HNTB NORTH CAROLINA, P.C.  
343 E. SIX FORKS ROAD, SUITE 200  
RALEIGH, NORTH CAROLINA 27609  
NC LICENSE NO. C-1554

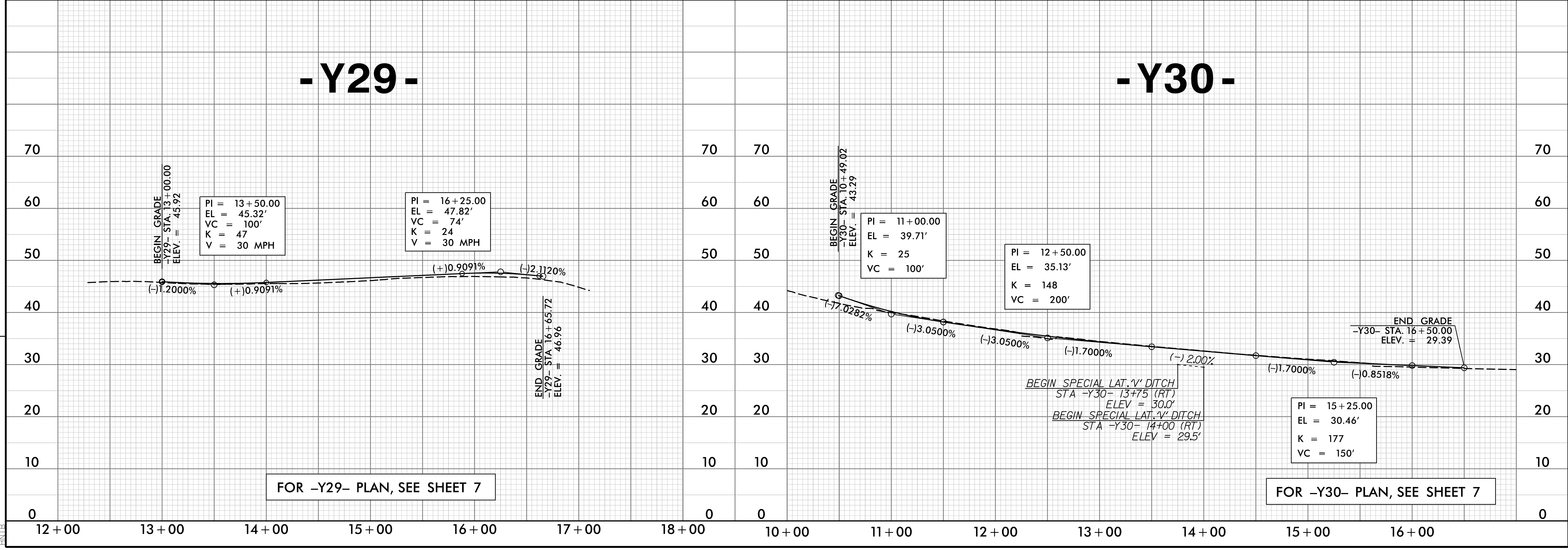
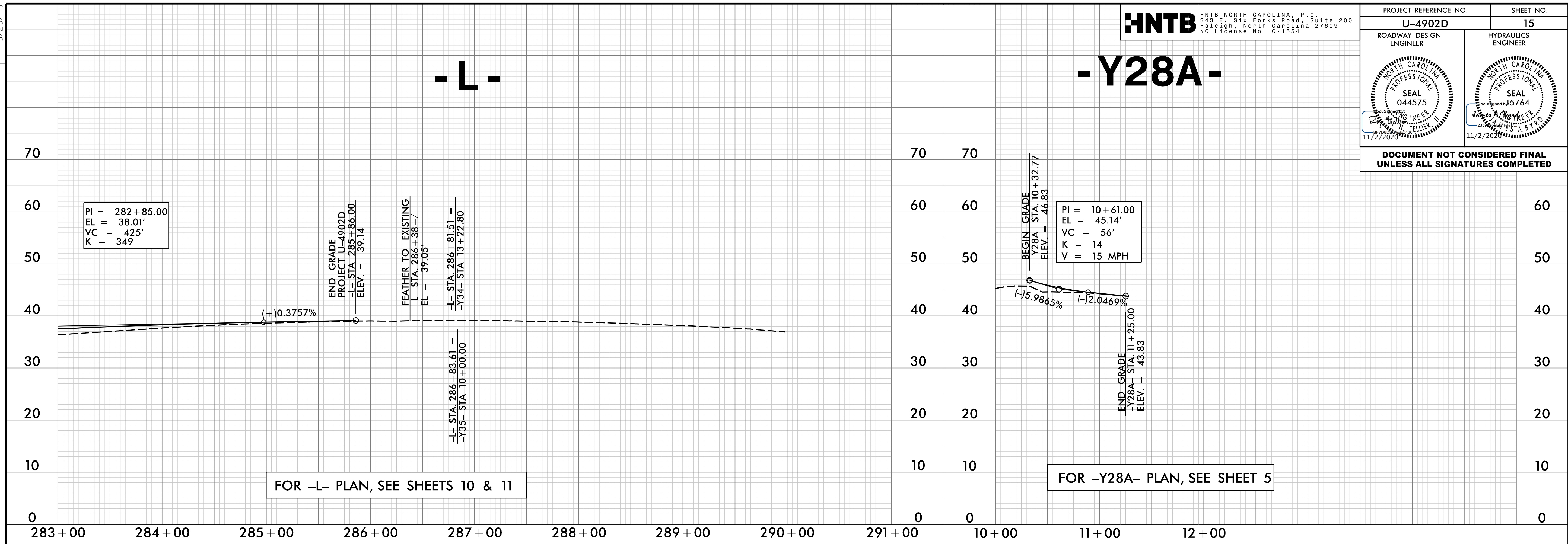
PROJECT REFERENCE NO. <b>U-4902D</b>	SHEET NO. <b>15</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

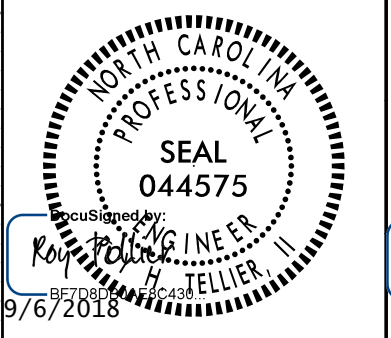
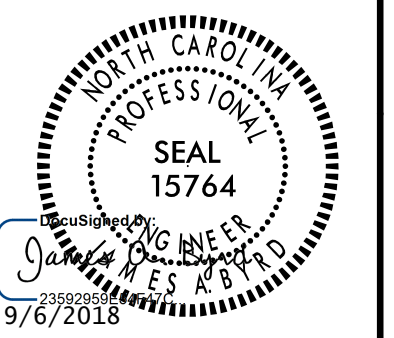
REVISIONS

CONSTRUCTION REVISION NO. 6 : REVISED -Y30- PROFILE.

Q:\NOV-2019\03135\03135.dgn  
V:\03135\03135\03135.dgn  
V:\03135\03135\03135.dgn  
V:\03135\03135\03135.dgn

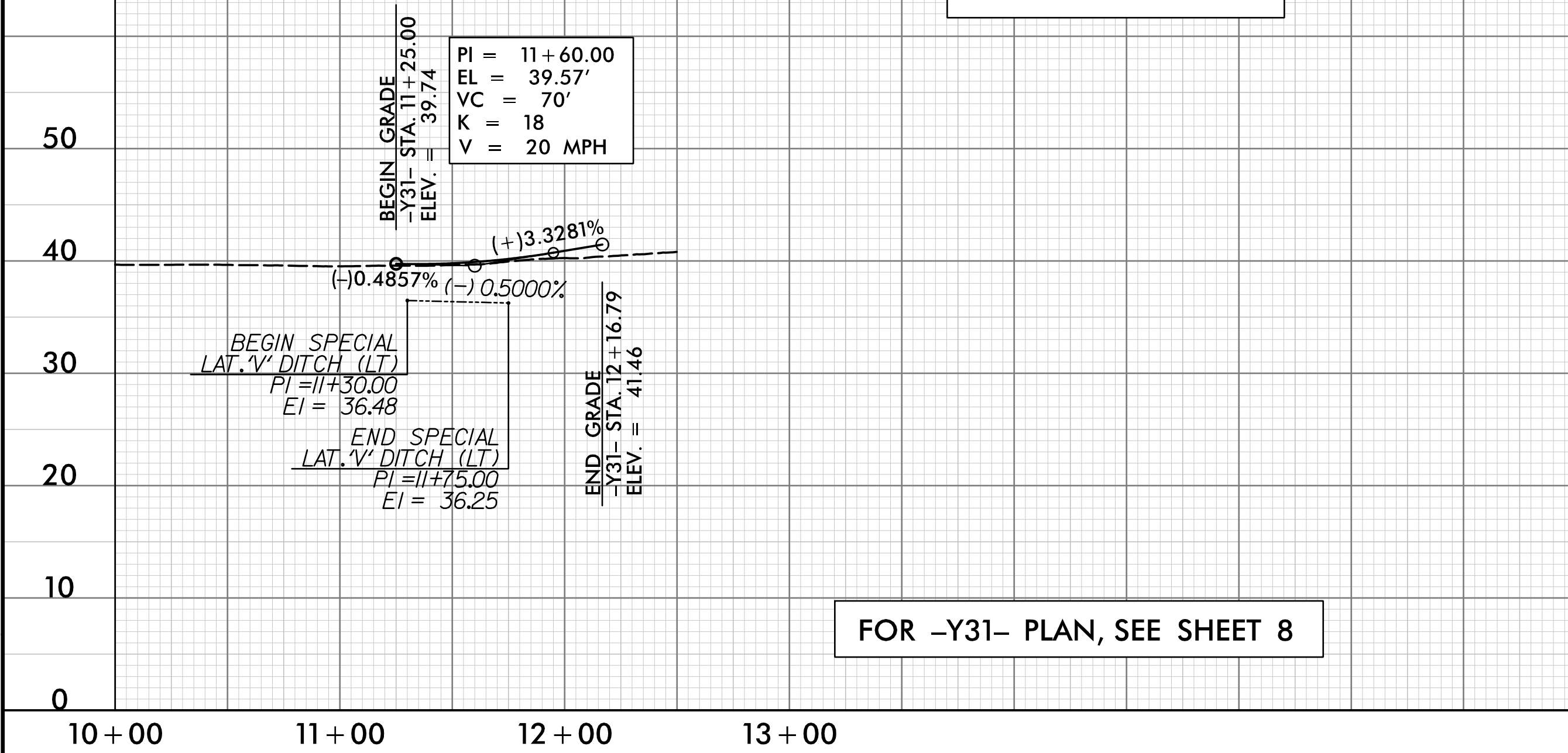


5/28/19

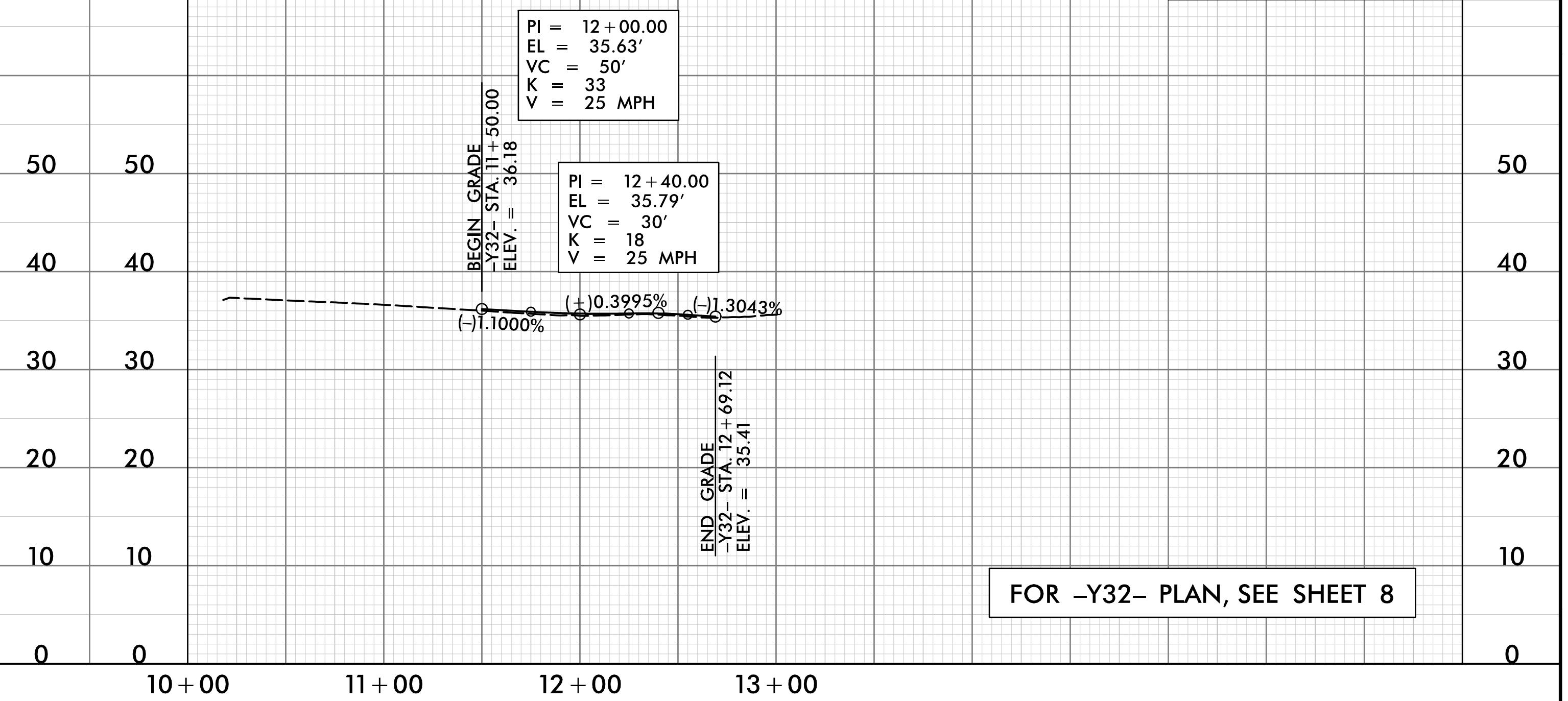
PROJECT REFERENCE NO. <b>U-4902D</b>	SHEET NO. <b>16</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

# -Y31-

DITCH LEGEND  
 LEFT DITCH - - - - -



# -Y32-



# -Y33-

THIS SPACE INTENTIONALLY LEFT BLANK.

