

Exception Request No.: 103
Section: SHEB
Town: Sugar Hill
Highway: NH 18/NH 116 (Tier 3)
Station: 236+50 to 241+50
Drawing No.: SHEB C110
Survey Report Cross Reference No.: SHEB C107 to C108
Exception Type: Alignment in Pavement
Highway Crossing

Traffic Information

NHS: No

ADT: No Data Available at gis.dot.nh.gov/nh-roads/

Traffic Control Type: Alt 1-way

Traffic Control Duration: Traffic control duration is estimated to be 13 days for the proposed installation, during which one lane will be closed.

Summary of Justification for Exception

NPT is requesting an exception from the UAM guidelines for the location of the cable trench in the pavement on NH 18/116 (Franconia Road) from station approximately 236+50 to 241+50 of the underground alignment, including a road crossing at approximately 241+00.

Due to limited ROW space outside the pavement and beyond the existing utility poles on the eastern side of the road, and limited ROW space and a stream and wetlands on the west side of the road, construction outside the paved area is not practicable in this area. The road crossing is needed to align with the location of the duct bank on the west side of NH 18/116 south of this location. The proposed alignment is located beneath the pavement at a 5-foot offset from the utility poles, where needed to avoid future conflicts with pole repairs or replacement.

Technical Discussion of Justification of Exception

The roadway alignment at this location is constrained on both sides of the road. On the eastern side of NH 18/116, the ROW is narrow and space is further limited by two utility poles. These poles are located close to the edge of the ROW and moving them further from the edge of pavement would require the installation of guying that would extend past the edge of the ROW, which would require additional rights on private property outside the NHDOT ROW. On the western side of the road, wetlands and a stream are located in the narrow portion of the ROW outside the paved area.

A road crossing is needed in this area to align the duct bank between an HDD location on the east side of NH 18/116 at 213+66 (see Exception Request 102) with the alignment on the west side of the road south of 241+50. The proposed alignment crosses to the west side of the road at approximately 241+00, where the wetland on the west side of the road ends.

The proposed alignment and a splice enclosure will be routed just outside the paved area from approximately 239+75 to 241+00. (See Exhibit A.)

Note: NPT is requesting an exception for the portion of the alignment from station 236+50 to 241+50. In the original permit drawings, NPT proposed an alignment within the pavement for a longer portion of the roadway north of this area, and a splice enclosure in pavement. In response to NHDOT comments, NPT has reduced the length of the alignment within the paved area by approximately 375 feet and moved the splice vault out of the pavement.

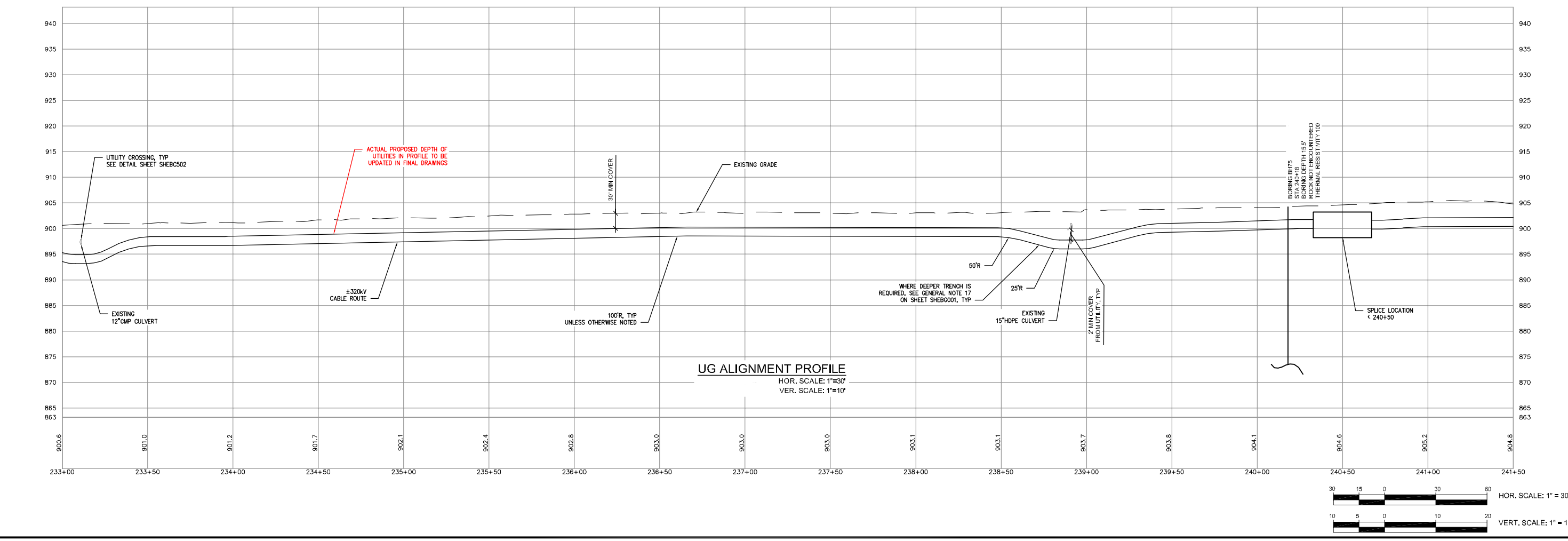
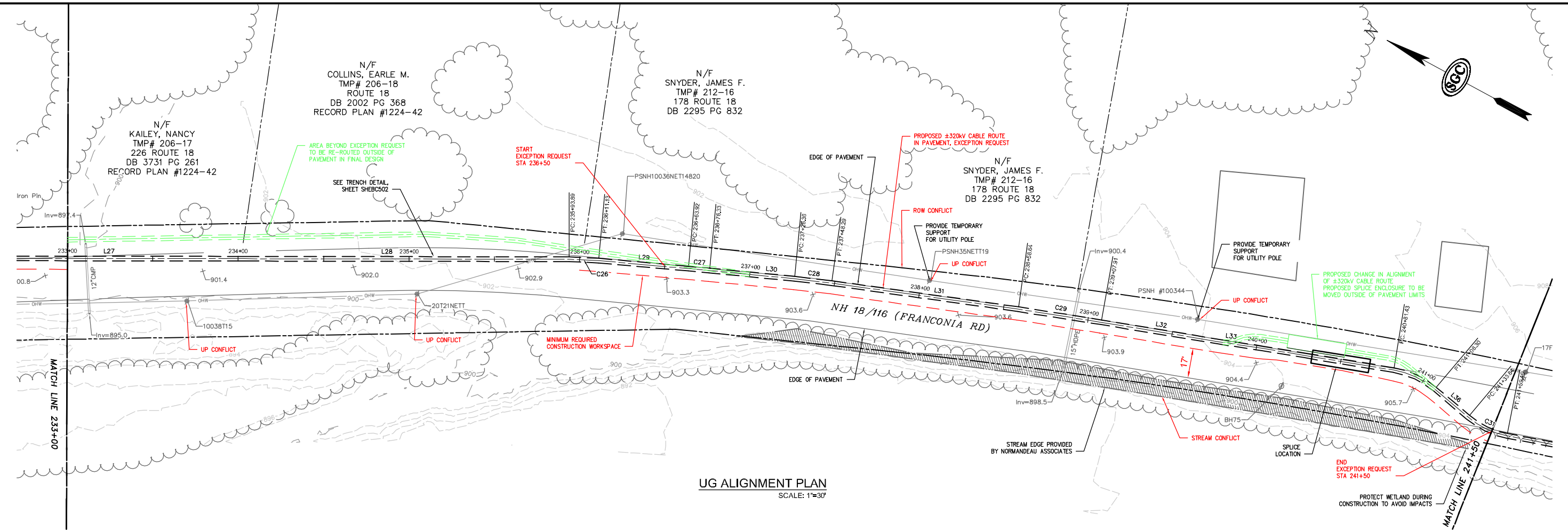
Excavation limits and work areas are shown on the attached drawings. (See Exhibit A.) During construction, one lane will remain open to traffic at all times.

Impacts

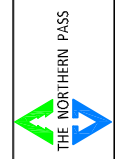
The design, as proposed, will not adversely affect the design, construction, stability, traffic, safety, environmental commitments, maintenance, or operation of the highway. The alignment has been located 5-feet off the edge of the utility pole to avoid future conflicts with pole repairs or replacement. The installation of the duct bank and pavement restoration will be designed and constructed in accordance with conditions outlined in the NHDOT's April 3, 2017 letter to the New Hampshire Site Evaluation Committee. The installation's proposed depth meets NHDOT's criteria relating to the structural box to minimize any potential conflicts with maintenance and future highway projects. A traffic control plan has been submitted to the NHDOT for this design and complies with the Manual on Uniform Traffic Control Devices.

Supporting Documentation

See attached Exhibit A showing a plan and profile view.



NO.	REVISION	DATE	BY	CHKD	APPRV.
0	EXCEPTION REQUEST	05/25/17	TDD	DMW	CHD



Transmission Business

EXCEPTION 103-ALIGNMENT IN PAVEMENT
 NPT SHEB-UNDERGROUND ALIGNMENT
 SHEB SECTION-STA 236+50 TO STA 241+50
 DATE: 05/20/17

DES: MRR CHK: TDD
 DRW: BGC APR: DMW
 TOWN: SUGAR HILL
 TRANSMISSION LINE: SHEB
EXHIBIT A