



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



SEE SHEET TMP-42A

TEMPORARY SHORING LOCATION NO. **5-1** ESTIMATED QUANTITY = 1826.51 SF

-L- STA. 1390+45, 22.5' LT TO -L- STA. 1391+65, 22.5' LT
LENGTH=120.13' AVERAGE HEIGHT = 18.87 FT MAXIMUM HEIGHT = 26.20 FT

SHORING LOCATION NO. 5-1

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION -L- 1390+45 ±, 22.5 FT LEFT, TO STATION -L- 1391+65 ±, 22.5 FT LEFT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

DESIGN TEMPORARY SHORING FROM STATION -L- 1390+45 ±, 22.5 FT LEFT, TO STATION -L- 1391+65 ±, 22.5 FT LEFT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 PCF
FRICTION ANGLE (φ) = 30 DEGREES
COHESION (c) = 0 PSF
GROUNDWATER ELEVATION = 173 FT

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 1390+45 ±, 22.5 FT LEFT, TO STATION -L- 1391+65 ±, 22.5 FT LEFT.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -L- 1390+45 ±, 22.5 FT LEFT, TO STATION -L- 1391+65 ±, 22.5 FT LEFT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING GEOTECHNICAL STANDARD DETAIL NO. 1801.01, FOR TEMPORARY SHORING FROM STATION -L- 1390+45 ±, 22.5 FT LEFT, TO STATION -L- 1391+65 ±, 22.5 FT LEFT EXCEPT FOR TEMPORARY SHORING HEIGHTS ABOVE 12 FEET. ENGINEERED CANTILEVERED SHORING WILL BE REQUIRED FOR SHORING HEIGHTS EXCEEDING 12 FEET.

SEE SHEET TMP-42A

TEMPORARY SHORING LOCATION NO. **5-2** ESTIMATED QUANTITY = 208.18 SF

-L- STA. 1390+21, 28.0' LT TO -L- STA. 1390+50, 28.0' LT
LENGTH=28.84' AVERAGE HEIGHT = 8.02 FT MAXIMUM HEIGHT = 9.63 FT

SHORING LOCATION NO. 5-2

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION -L- 1390+21 ±, 28 FT LEFT, TO STATION -L- 1390+50 ±, 28 FT LEFT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 PCF
FRICTION ANGLE (φ) = 30 DEGREES
COHESION (c) = 0 PSF
GROUNDWATER ELEVATION = 173 FT

DO NOT USE CANTILEVER, BRACED OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 1390+21 ±, 28 FT LEFT, TO STATION -L- 1390+50 ±, 28 FT LEFT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 1390+21 ±, 28 FT LEFT, TO STATION -L- 1390+50 ±, 28 FT LEFT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

WHEN BACKFILL FOR BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.

SEE SHEET TMP-42A

TEMPORARY SHORING LOCATION NO. **5-3** ESTIMATED QUANTITY = 207.60 SF

-L- STA. 1391+55, 28.0' LT TO -L- STA. 1391+84, 28.0' LT
LENGTH=28.84' AVERAGE HEIGHT = 8.00 FT MAXIMUM HEIGHT = 9.59 FT

SHORING LOCATION NO. 5-3

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION -L- 1391+55 ±, 28 FT LEFT, TO STATION -L- 1391+84 ±, 28 FT LEFT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 PCF
FRICTION ANGLE (φ) = 30 DEGREES
COHESION (c) = 0 PSF
GROUNDWATER ELEVATION = 173 FT

DO NOT USE CANTILEVER, BRACED OR ANCHORED SHORING FOR TEMPORARY SHORING FROM STATION -L- 1391+55 ±, 28 FT LEFT, TO STATION -L- 1391+84 ±, 28 FT LEFT.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 1391+55 ±, 28 FT LEFT, TO STATION -L- 1391+84 ±, 28 FT LEFT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

WHEN BACKFILL FOR BRIDGE APPROACH FILLS OVERLAPS WITH THE REINFORCED ZONE OF TEMPORARY WALLS, USE SHORING BACKFILL OR BACKFILL MATERIAL REQUIRED FOR BRIDGE APPROACH FILLS, WHICHEVER IS BETTER, IN THE REINFORCED ZONE OF TEMPORARY WALLS.

SEE SHEET TMP-44A

TEMPORARY SHORING LOCATION NO. **5-4** ESTIMATED QUANTITY = 1950.65 SF

-L- STA. 1390+71, 22.5' RT TO -L- STA. 1391+95, 22.5' RT
LENGTH=124.13' AVERAGE HEIGHT = 19.54 FT MAXIMUM HEIGHT = 27.20 FT

SHORING LOCATION NO. 5-4

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION -L- 1390+71 ±, 22.5 FT RIGHT, TO STATION -L- 1391+95 ±, 22.5 FT RIGHT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

DESIGN TEMPORARY SHORING FROM STATION -L- 1390+71 ±, 22.5 FT RIGHT, TO STATION -L- 1391+95 ±, 22.5 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 PCF
FRICTION ANGLE (φ) = 30 DEGREES
COHESION (c) = 0 PSF
GROUNDWATER ELEVATION = 173 FT

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 1390+71 ±, 22.5 FT RIGHT, TO STATION -L- 1391+95 ±, 22.5 FT RIGHT.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION -L- 1390+71 ±, 22.5 FT RIGHT, TO STATION -L- 1391+95 ±, 22.5 FT RIGHT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING GEOTECHNICAL STANDARD DETAIL NO. 1801.01, FOR TEMPORARY SHORING FROM STATION -L- 1390+71 ±, 22.5 FT RIGHT, TO STATION -L- 1391+95 ±, 22.5 FT RIGHT EXCEPT FOR TEMPORARY SHORING HEIGHTS ABOVE 12 FEET. ENGINEERED CANTILEVERED SHORING WILL BE REQUIRED FOR SHORING HEIGHTS EXCEEDING 12 FEET.

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEER. THE DOCUMENT WAS SUBMITTED TO THE WZTC SECTION MICHAEL BAKER INTERNATIONAL ON SEPTEMBER 4, 2020 AND SEALED BY A PROFESSIONAL ENGINEER, STACIE E. MITCHELL, LICENSE #032125.

AREA 5

TEMPORARY SHORING
NOTES/LOCATIONS

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