SHORING LOCATION NO. 1:

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

TEMPORARY SHORING IS REQUIRED FOR THE END BENT CONSTRUCTION FROM STATION 17+30 ± -L-, 27.5' LT, TO STATION 17+85 ± -L-, 27.5' LT.

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 $17+30 \pm -L-$, 27.5' LT, TO STATION 17+85 ± -L-, 27.5' LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT $(\gamma) = 120 \text{ LB/CF}$ FRICTION ANGLE $(\phi) = 30$ DEGREES COHESION (c) = 0 LB/SFGROUNDWATER ELEVATION = 1090 FT

DRIVEN PILING FOR TEMPORARY SHORING FROM STATION 17+30 ± -L-, 27.5' LT, TO STATION 17+85 ± -L-, 27.5' LT MAY NOT PENETRATE BELOW ELEVATION 1088 FT DUE TO OBSTRUCTIONS, VERY DENSE OR HARD SOIL, BOULDERS OR WEATHERED OR HARD ROCK.

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 17+30 ± -L-, 27.5′ LT, TO STATION 17+85 ± -L-, 27.5′ LT.

IT MAY BE PREFERRED TO USE A TEMPORARY SOIL NAIL WALL FOR TEMPORARY SHORING FROM STATION $17+30 \pm -L-$, 27.5' LT, TO STATION $17+85 \pm -L-$, 27.5' LT. FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS PROVISION.

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS SUBMITTED TO THE WZTC SECTION ON AUGUST 23, 2023 AND SEALED BY A PROFESSIONAL ENGINEER, SHIPING YANG, LICENSE # 031361.

SHORING NOTES

SHORING LOCATION NO. 2:

FOR TEMPORARY SHORING AND POSITIVE P SHORING, SEE PLANS AND TEMPORARY SHO

TEMPORARY SHORING IS REQUIRED FOR TH STATION 18+75 ± -L-, 27.5' LT, TO STA

BEFORE BEGINNING TEMPORARY SHORING DA EXISTING GROUND ELEVATIONS IN THE VI DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATIO $19+42 \pm -L-$, 27.5' LT, FOR THE FOLLOW GROUNDWATER ELEVATION:

UNIT WEIGHT (Y) = 120 LB/CFFRICTION ANGLE $(\phi) = 30$ DEGREES COHESION (c) = 0 LB/SFGROUNDWATER ELEVATION = 1090 FT

DRIVEN PILING FOR TEMPORARY SHORING STATION 19+42 ± -L-, 27.5' LT MAY NOT DUE TO OBSTRUCTIONS, VERY DENSE OR H OR HARD ROCK.

DO NOT USE A TEMPORARY WALL FOR TEMP 18+75 ± -L-, 27.5' LT, TO STATION 19+

IT MAY BE PREFERRED TO USE A TEMPORA SHORING FROM STATION $18+75 \pm -L-$, 27 TEMPORARY SOIL NAIL WALLS, SEE TEMPOR

> APPROVED: Kichard Odynski DATE: _____ SEAL DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	PROJ. REFERENCE NO.	SHEET NO.
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NC LIC. NO. F-0165

TRANSPORTATION MANAGEMENT PLAN SHORING NOTES