## NOTES

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

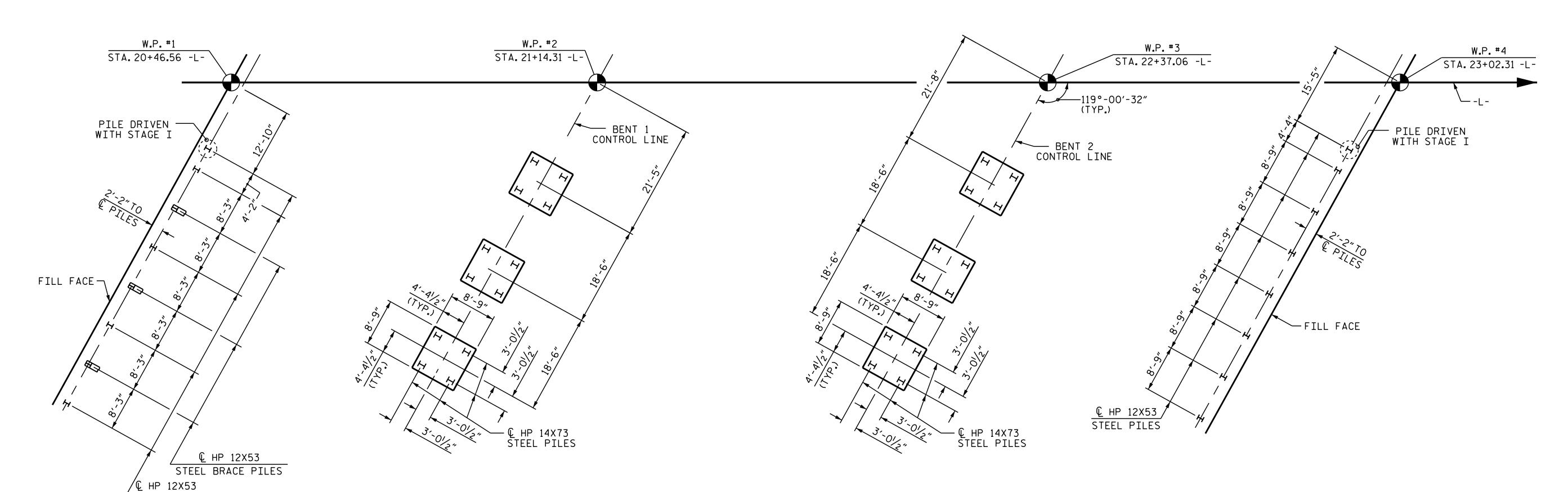
PILES END BENTS 1 AND 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 105 TONS PER PILE.

DRIVE PILES AT END BENTS 1 AND 2 TO A REQUIRED DRIVING RESISTANCE OF 175 TONS PER PILE.

PILES AT BENTS 1 AND 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 160 TONS PER PILE.

DRIVE PILES AT BENTS 1 AND 2 TO A REQUIRED DRIVING RESISTANCE OF 267 TONS PER PILE.

IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 55 TO 75 FT-KIPS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT BENTS 1 AND 2. THIS ESTIMATED ENERGY RANGE DOES NOT RELEASE THE CONTRACTOR FROM PROVIDING DRIVING EQUIPMENT IN ACCORDANCE WITH SUBARTICLE 450-3(D)(2) OF THE STANDARD SPECIFICATIONS.



## FOUNDATION LAYOUT-STAGE I

DIMENSIONS LOCATING PILES ARE SHOWN TO CENTERLINE OF PILES.
DIMENSIONS LOCATING COLUMNS AND FOOTINGS ARE SHOWN TO CENTERLINE
OF COLUMNS AND FOOTINGS. DIMENSIONS FOR FOOTINGS ARE TYPICAL FOR EACH
FOOTING. BRACE PILES AT END BENT 1 ARE BATTERED AT 3:12.

PROJECT NO. B-5136

CABARRUS COUNTY

STATION: 21+74.92 -L-

SHEET 2 OF 5

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

GENERAL DRAWING

FOR BRIDGE OVER
NORFOLK SOUTHERN RR ON
US 29/601 (CONCORD PARKWAY)
BETWEEN ELLA ST. AND NC 73

REVISIONS

O. BY: DATE: NO. BY: DATE: S-2

TOTAL SHEETS
75

STEEL PILES

18-FEB-2015 14:02
R:\Structures\Plans\B5136\_SD\_GD\_01.dgn
thcarroll1