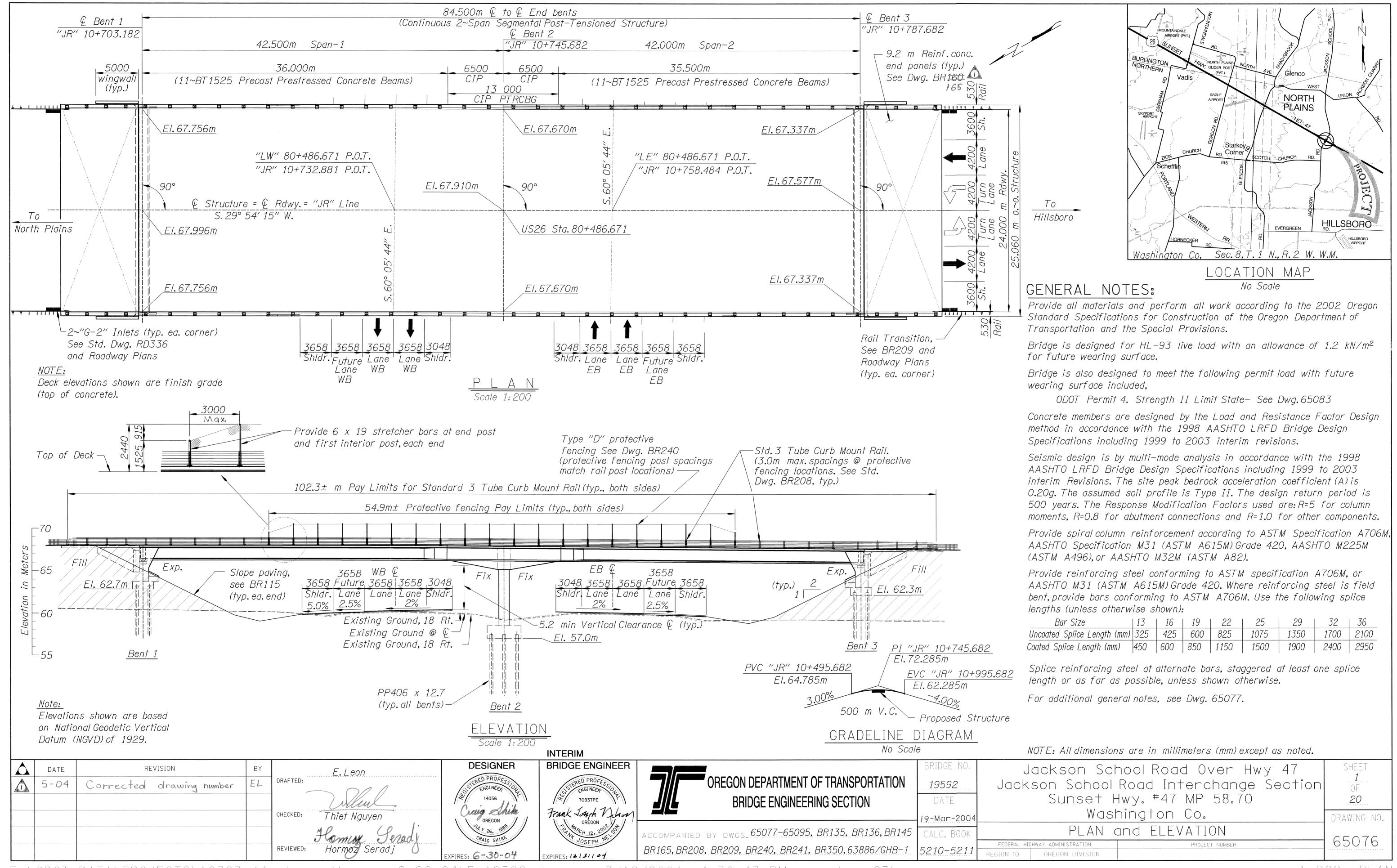
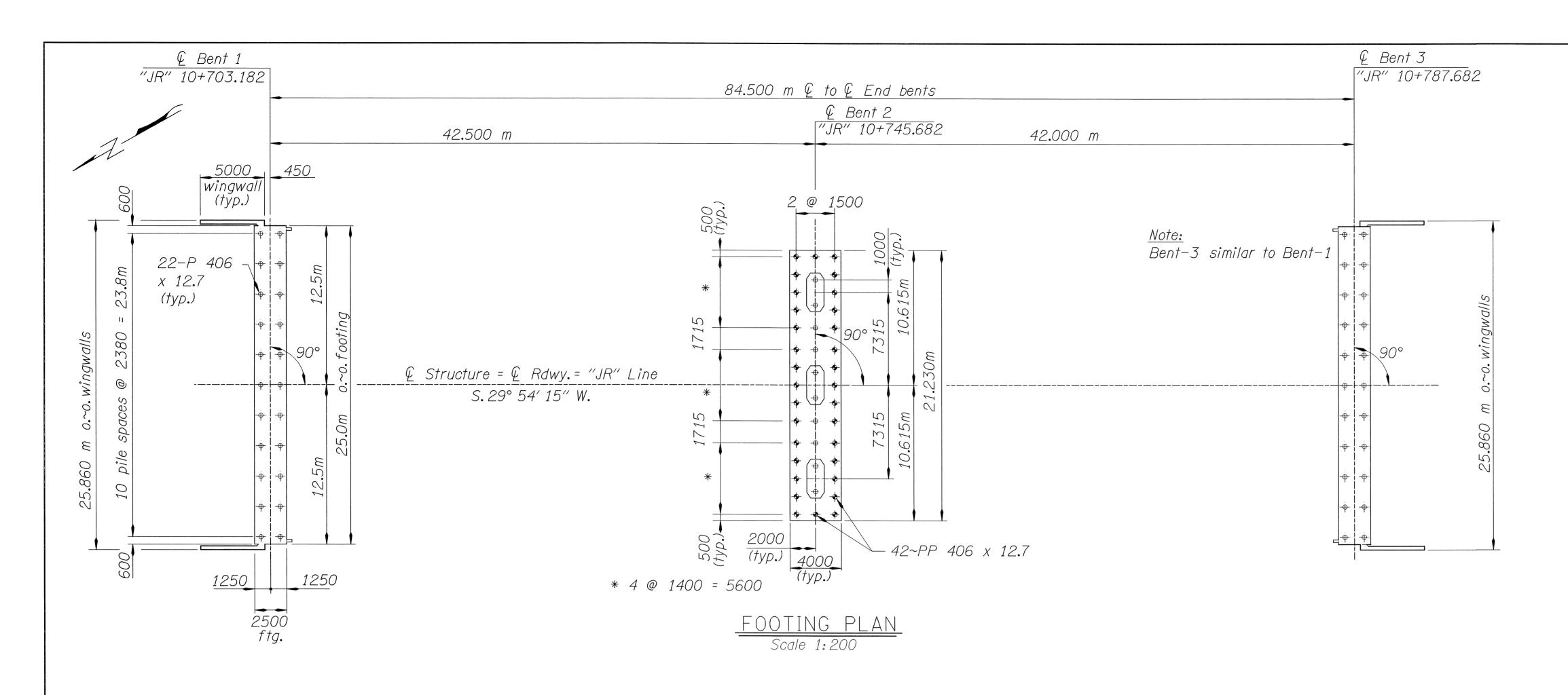
AASHTO T-3 TRIAL DESIGN BRIDGE DESCRIPTION

| State: <u>Oregon</u> |
|--|
| Trial Design Designation: <u>OR-1</u> |
| Bridge Name: <u>Jackson School Road Over Hwy 47</u> |
| Superstructure Type: $\underline{Continuous\ prestressed\ precast\ Bulb\ "T"\ with\ composite}$ $\underline{concrete\ deck}$ |
| Span Length(s): <u>Two spans @ 139.44ft each</u> |
| Substructure Type: <u>Three 4.5ft. by10.0ft. reinforced concrete columns per bent</u> |
| Foundation: <u>Steel pipe piles (closed end) 16in. dia. by 0.5in. thickness</u> |
| Abutments: <u>Seat type end bents on 16in. dia. pipe piles</u> |
| Seismic Design Category (SDC): |
| Seismic Design Strategy (Type 1, 2 or 3): |
| Design Spectral Acceleration at 1-second Period (S_{D1}): |
| Additional Description (Optional): <u>Trial design is currently being done for this bridge.</u> |
| |
| |
| |





GENERAL NOTES CONTINUED:

Support the bottom mat of reinforcing steel from forms with precast mortar blocks at 600mm maximum centers each way. Support the top mat of reinforcing steel from the bottom mat of reinforcing steel with reinforcing bar supports by Dayton Superior Co.(SBU, BBU or CHCU) or approved equal at 600mm maximum centers.

Place bars 50mm clear of the nearest face of concrete unless shown otherwise. Field bend the top of stirrups extending from prestressed precast units.

Provide fully threaded rods at exterior girder diaphragms according to ASTM A36M.

Do not fabricate reinforcing steel for columns until final footing elevations have been determined in the field.

Provide Class 50-19 concrete in prestressed precast Bulb-T beams according to the detail plans, see Dwg. 65091. Provide a minimum concrete strength of 35 MPa at transfer of prestress.

Provide Class 35-19.0 concrete in post-tensioned box girder superstructure.

Provide Class HPC30-19.0 microsilica concrete for the deck and closure diaphragms (Beam C).

Provide Class 30-19.0 concrete in columns and reinforced concrete end panels.

Provide Class 25-37.5 or 19.0 concrete at all other locations.

Provide prestressing steel according to the detail plans.

Provide structural steel conforming to ASTM specification A36 unless shown otherwise.

Structural steel plates are fractional inch thickness expressed in equivalent metric units.

For structural steel connections, provide high-strength fasteners conforming to AASHTO Specification M164 (ASTM A325, unless shown otherwise).

Perform all welding in accordance with the latest edition of the AWS Bridge Welding Code.

Hot-dip galvanize all bolts, washers, nuts, and structural steel after fabrication. Repair damaged galvanizing according to ASTM Specification A780.

Provide fully threaded anchor rods for resin bonded anchors according to AASHTO Specification M314, Grade 105. Select a high strength resin from the Department's Qualified Products List.

Piling Notes:

Provide PP406 x 12.7 conforming to ASTM Specification A252, Grade 2 at all bents.

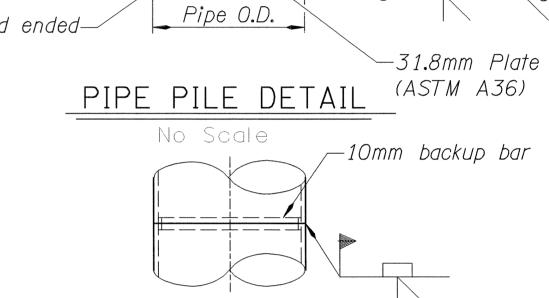
Drive all piles closed ended to an ultimate capacity of 2315 kN using driving criteria developed from a Wave Equation Analysis.

Pile tip elevation for minimum penetration is as follows:

Bent-1 - Elev. 35.000 m Bent-2 - Elev. 33.000 m

Bent-3 - Elev. 34.000 m

See Dwg. 63886/GHB-1 for Foundation Data



-19.1 mm Cap plate (ASTM A36).

8 /

-PP406 x 12.7

-10mm backup bar

PIPE PILE SPLICE DETAIL

D+50

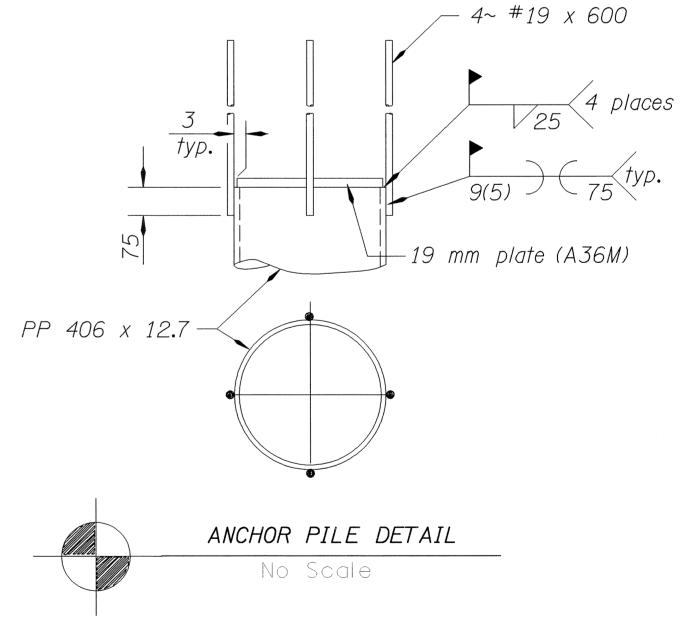
D = pile dia.

Pile cut-off to provide i

uniform bearing, grind as required, maximum

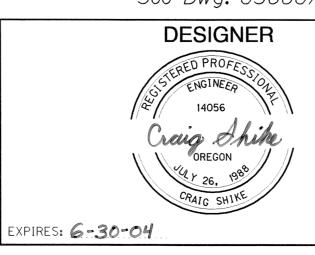
1 mm gap.

No Scale



NOTE: All dimensions are in millimeters (mm) except as noted.

| Δ | DATE | REVISION | BY | Philip G.Amaya |
|---------------------------------------|------|----------|----|-------------------------|
| | | | | DRAFTED: |
| | | | | While_ |
| | | | | CHECKED: Thiet Nguyen |
| × × × × × × × × × × × × × × × × × × × | | | | Hamen Seras |
| | | | | reviewed: Hormoz Seradj |



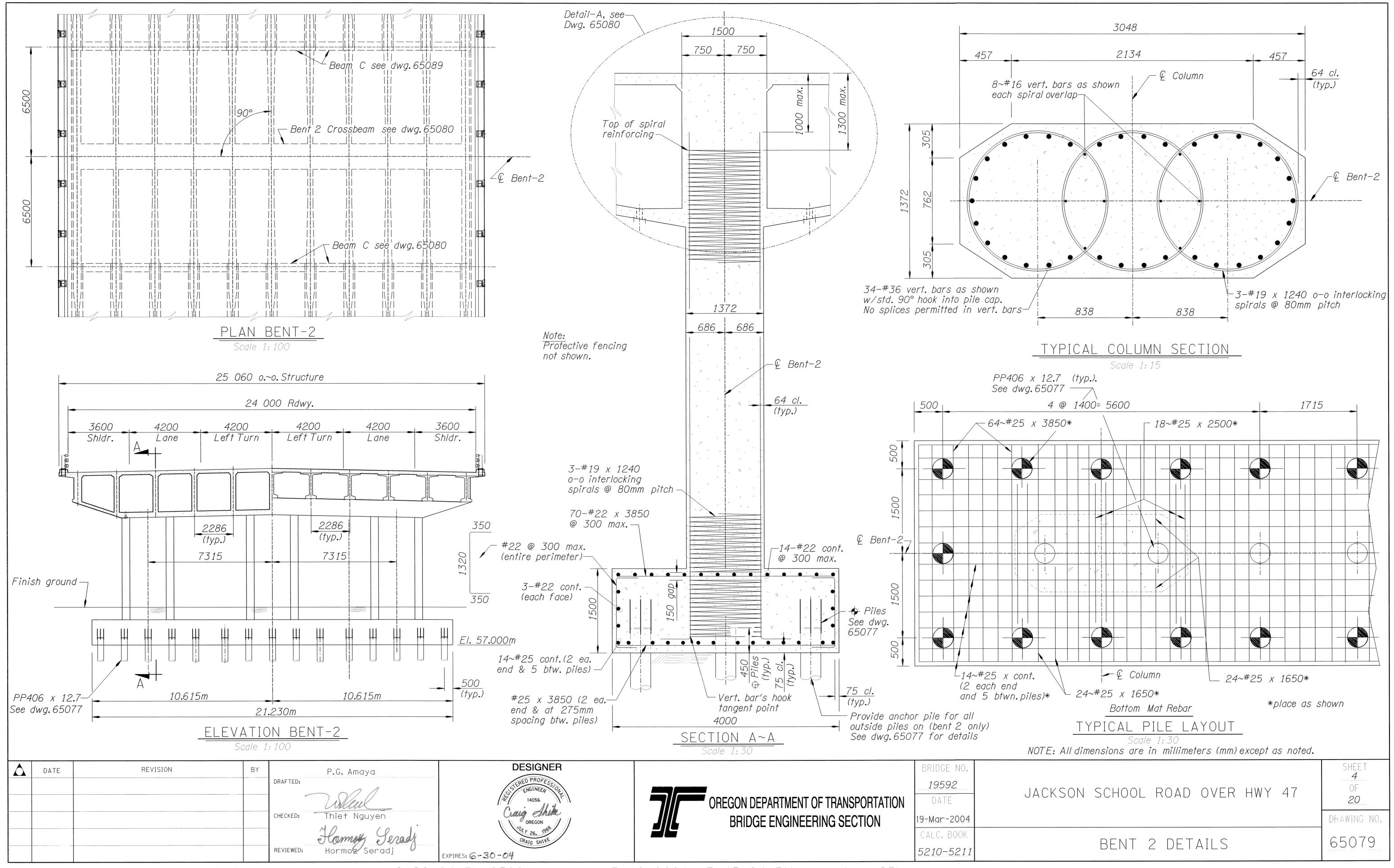


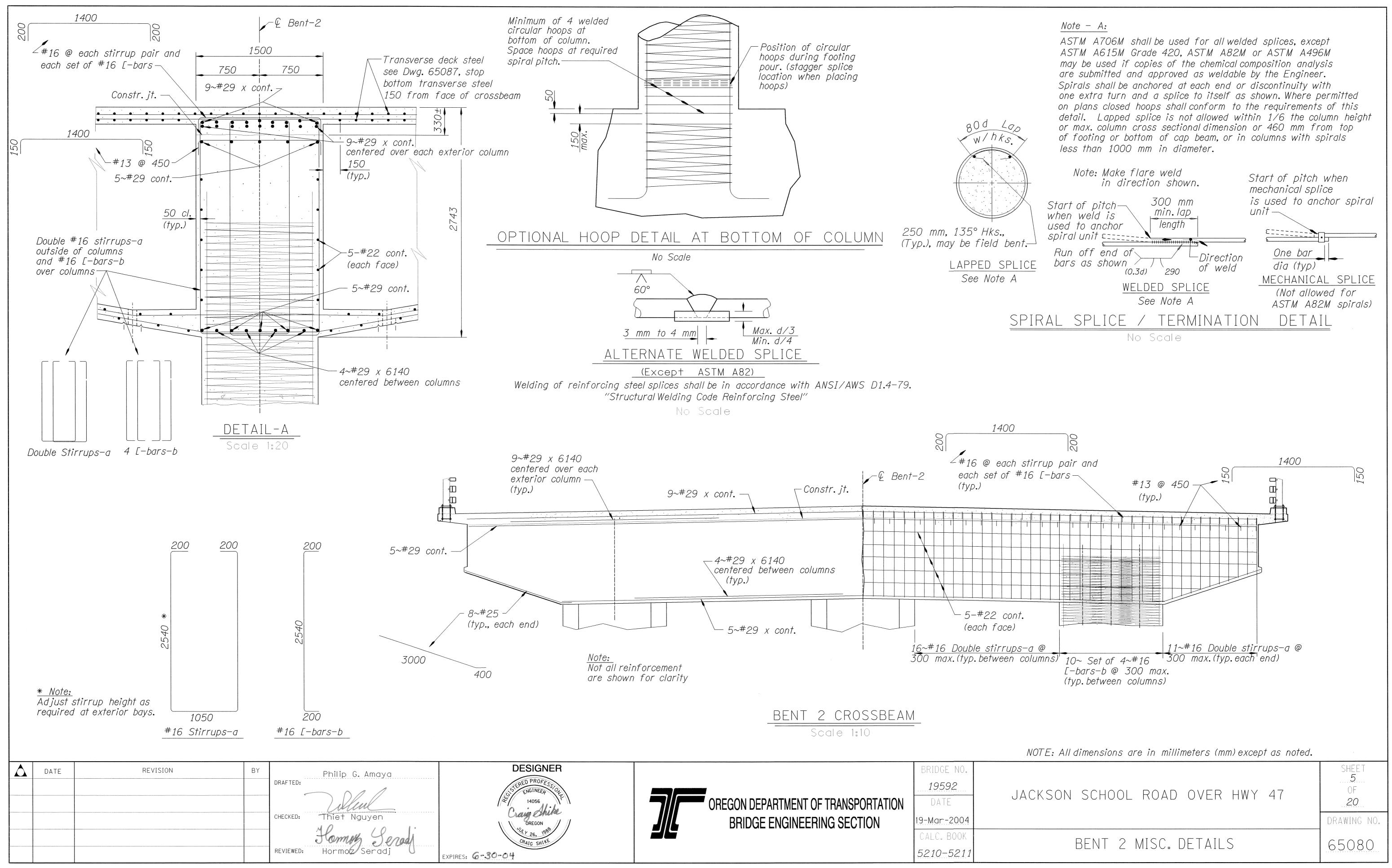
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|-------------|--|
| BRIDGE NO. | |
| 19592 | |
| DATE | |
| 19-Mar-2004 | |
| CALC. BOOK | |
| 5210-5211 | |

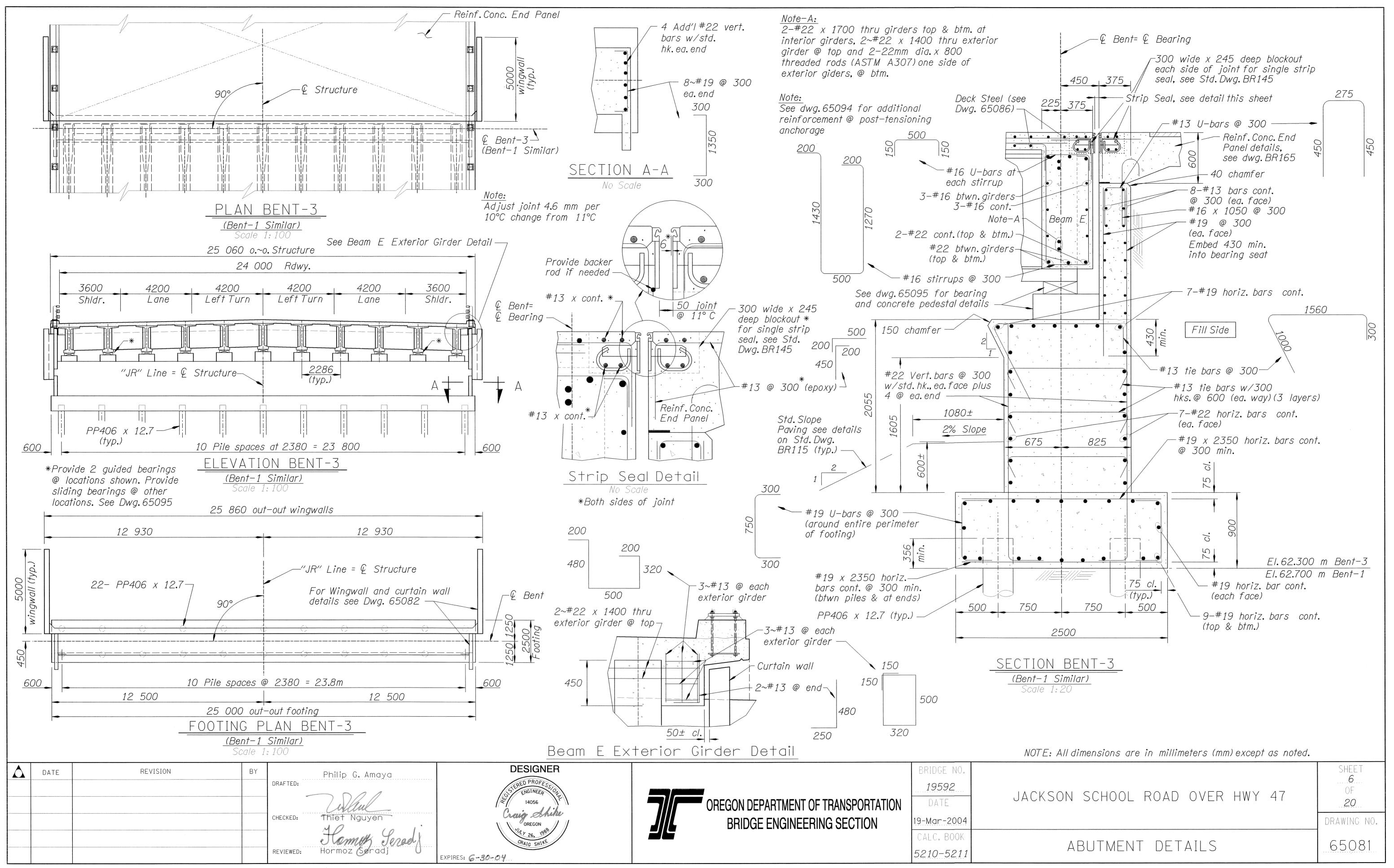
| JACKSON | SCHOOL | ROAD | OVER | HWY | 47 |
|---------|--------|------|------|-----|----|
| | | | | | |

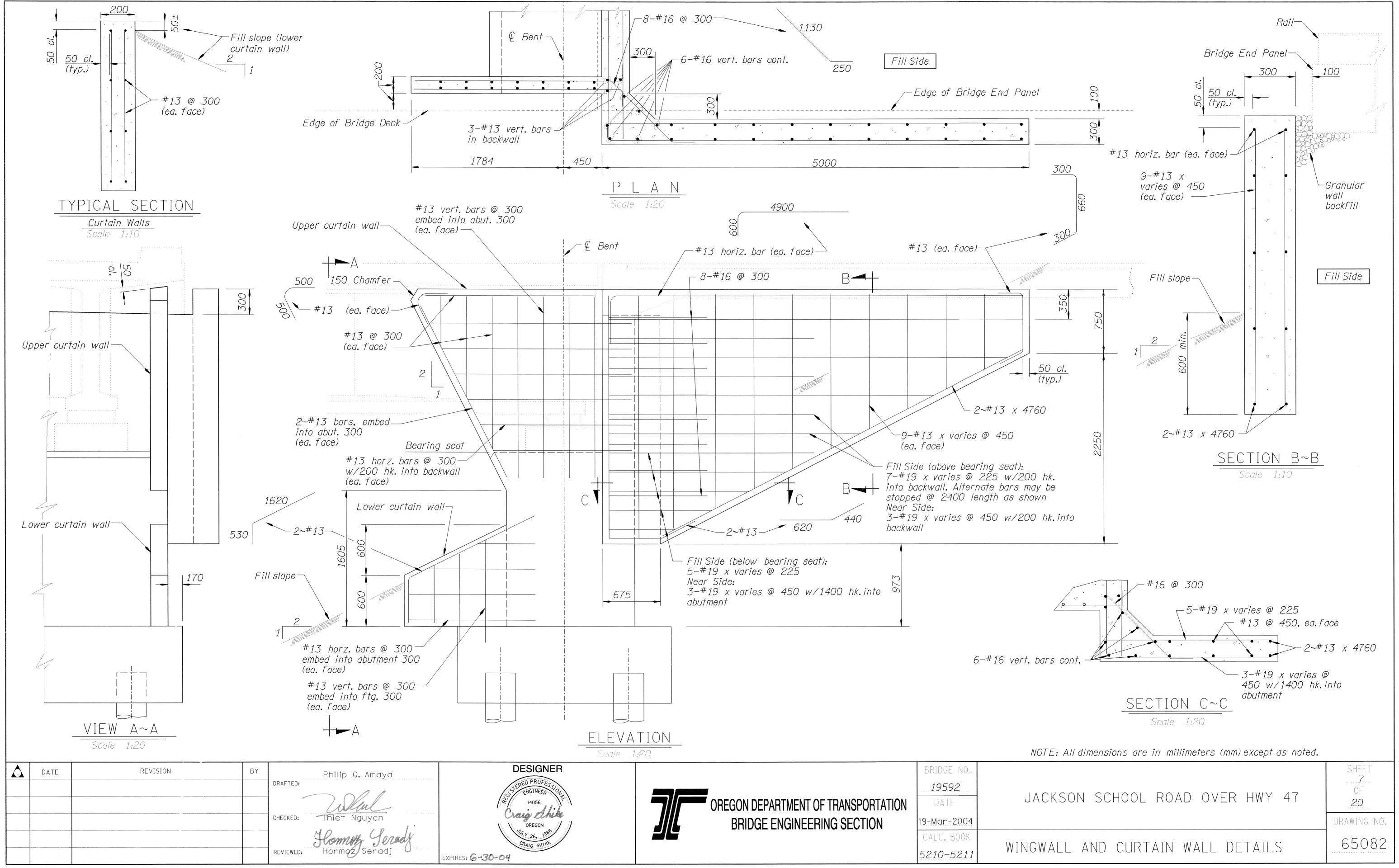
FOOTING PLAN

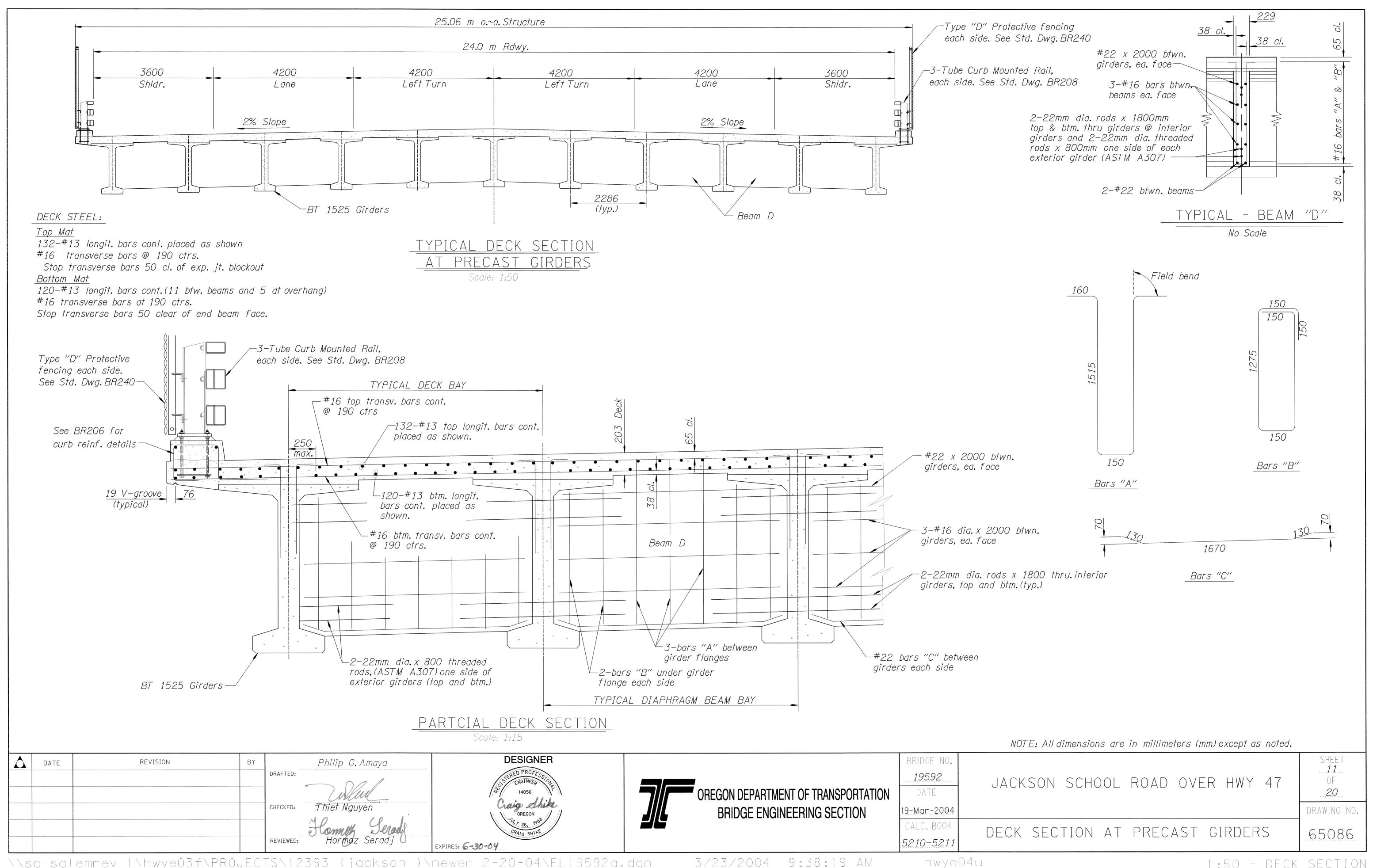
SHEET 2

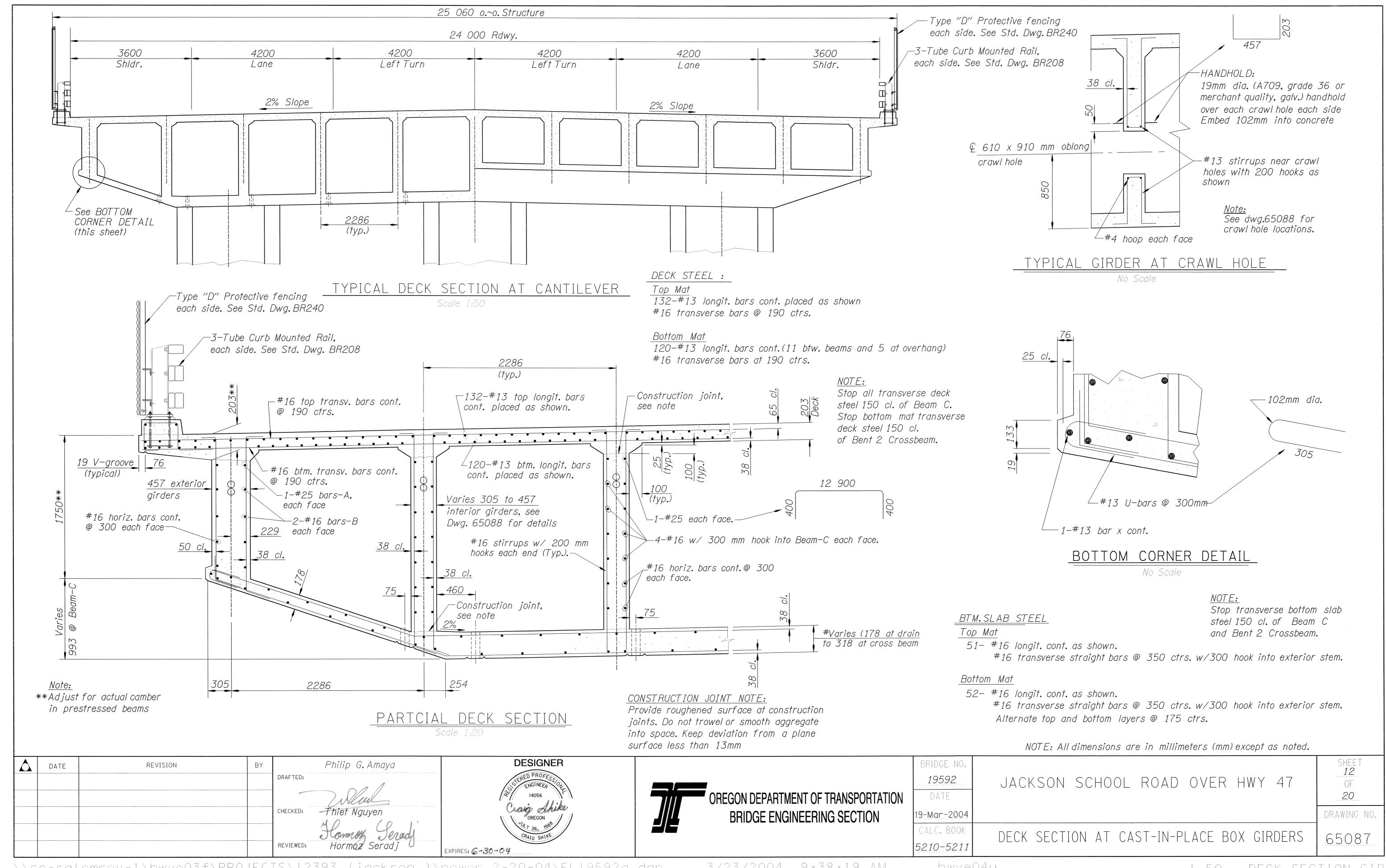


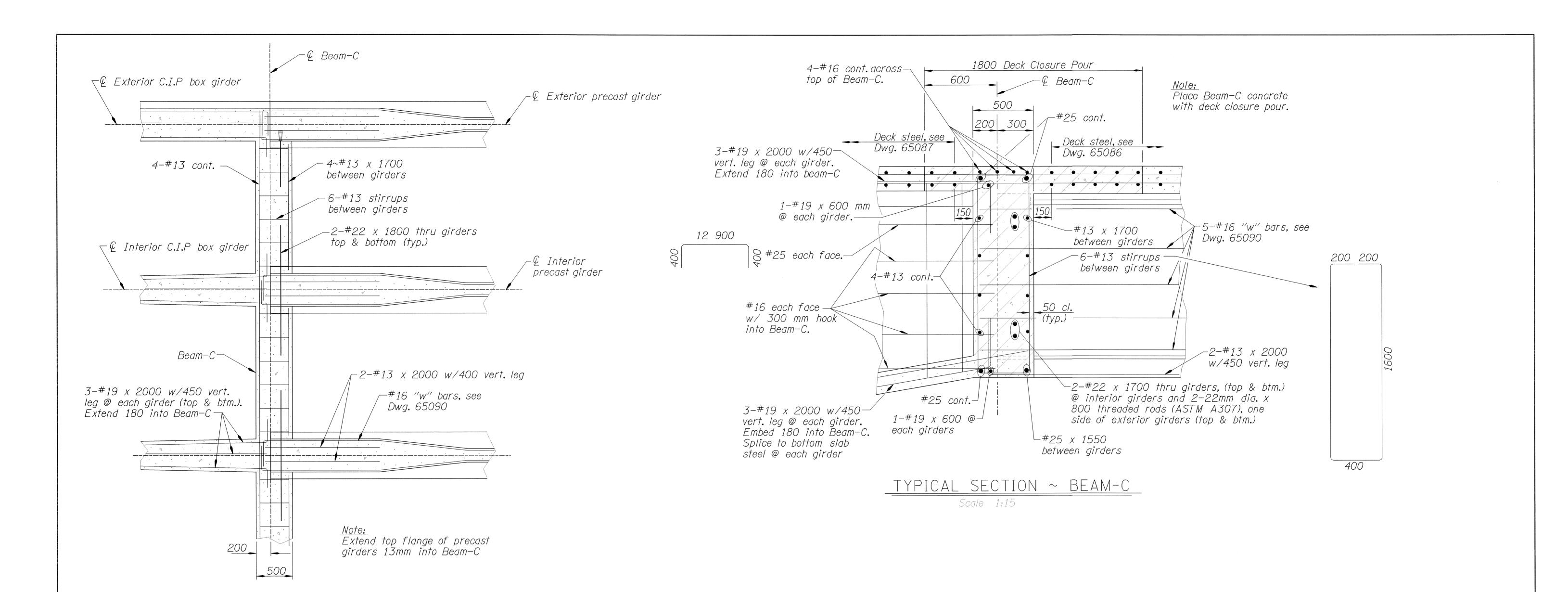










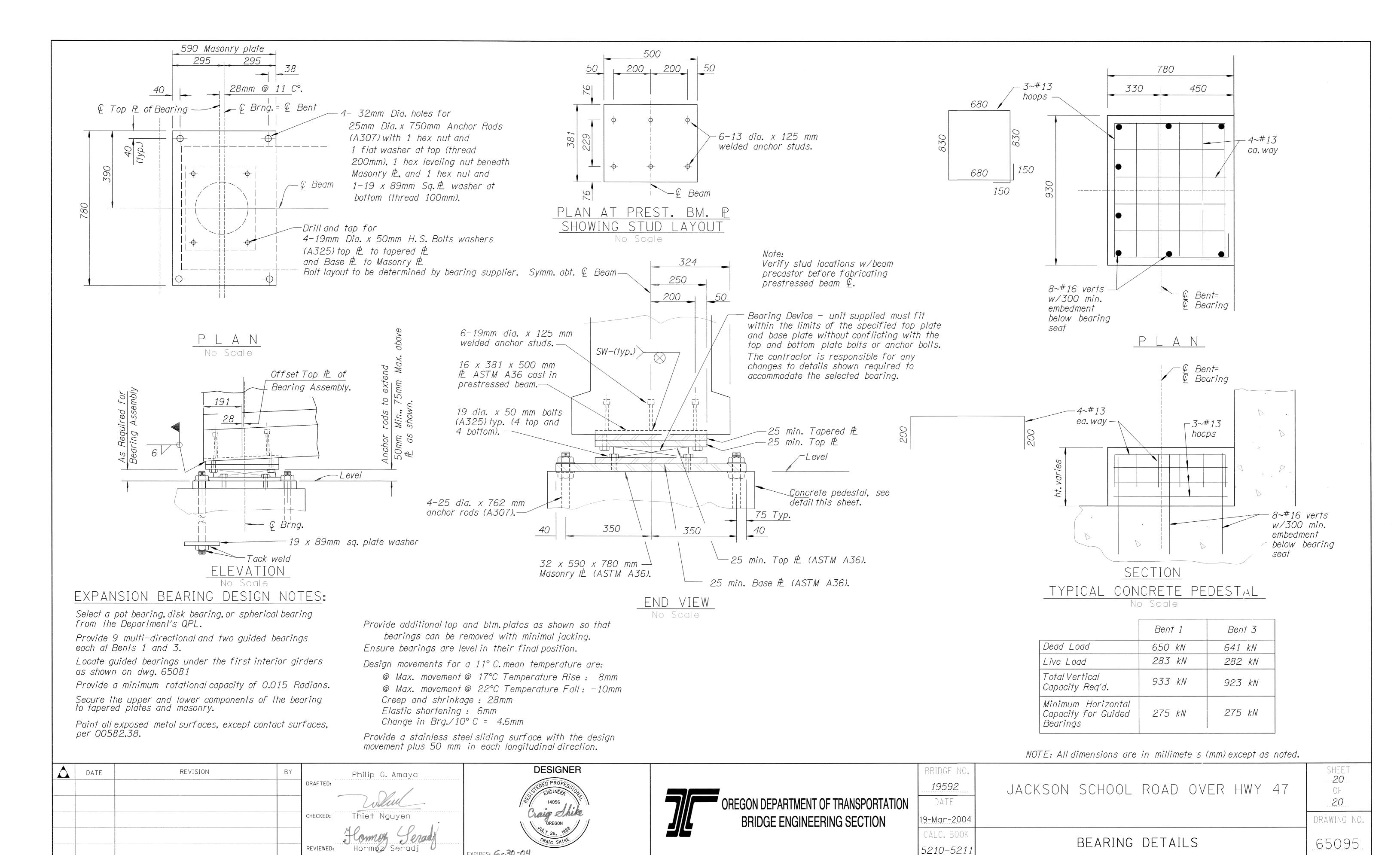


| | | | | | | | NOTE: All dimensions are in millimeters (mm) except as noted. | |
|------|----------|-----|--|-------------------------------------|----------------------------|---------------------------------|---|-------------|
| DATE | REVISION | BY | Philip G. Amaya DESIGNER DRAFTED: DESIGNER 14056 | OREGON DEPARTMENT OF TRANSPORTATION | BRIDGE NO. 19592 DATE | JACKSON SCHOOL ROAD OVER HWY 47 | SHEET 14 0F 20 | |
| | | CHE | ECKED: Thiet Nguyen | OREGON WAY 26, 1988 | BRIDGE ENGINEERING SECTION | 19-Mar-2004 CALC. BOOK | | DRAWING NO. |
| | | REV | VIEWED: Hormoz Seradj | XPIRES: 6-30-04 | | 5210-5211 | BEAM-C DETAILS | 65089 |

PARTIAL PLAN ~ BEAM-C

Scale 1:25

EXPIRES: 6-30-04



REVIEWED:

EXPIRES: 6-30-04