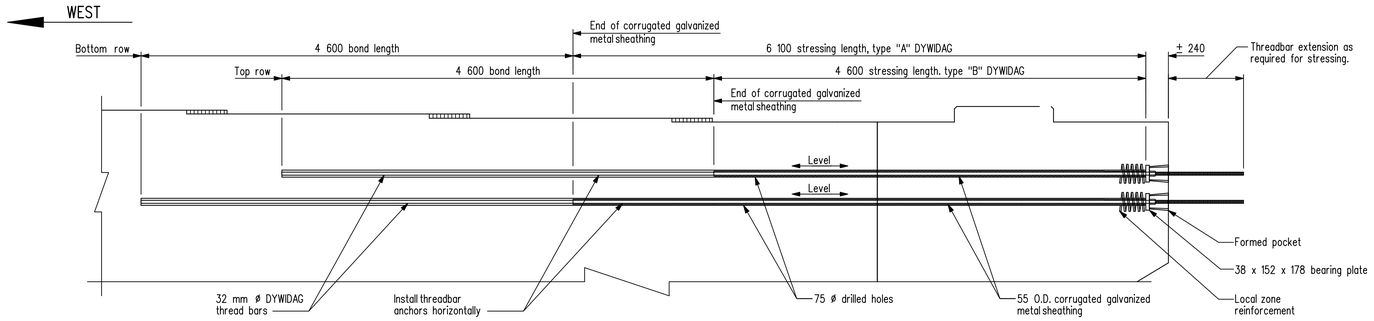


PIER ELEVATION

Shown normal to face of pier.

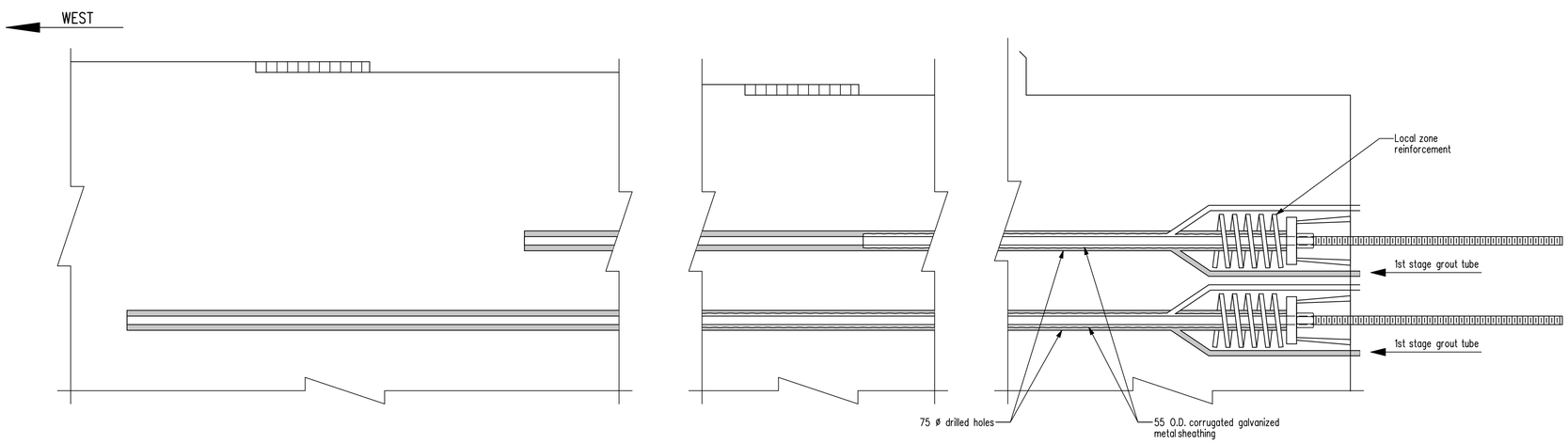
BILL OF DYWIDAG ANCHORS

SITE No. 2924-00

Type	No.	DESCRIPTION	SIZE
"A"	8	Bottom row of DYWIDAG Bars	32 mm ø, length as required for 6 100 stressing length
"B"	8	Top row of DYWIDAG Bars	32 mm ø, length as required for 4 600 stressing length

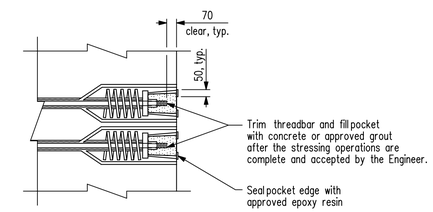
NOTE :

1. Drilling tolerances for threadbar anchors: The holes shall not deviate more than 50 mm from the theoretical hole alignment and location.
2. Threadbars shall be DYWIDAG 32 mm diameter Grade 1030 MPa threadbar conforming to CAN/CSA G279.
3. Threadbar stressing:
   - Maximum Threadbar Jacking Force = 623.0 kN per threadbar.
   - Effective Threadbar Prestressing Force after all losses = 452.0 kN per threadbar.
   - The new pier cantilever concrete shall attain a minimum compressive strength of 30 MPa before stressing the threadbar anchors.
4. The contractor shall provide access to the pier cap for the full length of the threadbar anchors for inspection purposes during and after threadbar stressing. The contractor shall notify the engineer immediately of any cracking in the pier cap during threadbar stressing.
5. The threadbar anchorages are considered "Special Anchorages" as defined by clause 5.10.9.7.3 of the AASHTO LRFD Bridge Design Specifications. As such, the anchorage supplier is responsible for the reinforcement design of the "local zone". The threadbar anchorage supplier shall supply the local zone reinforcement. The threadbar anchorage supplier shall furnish anchorage devices that comply with the acceptance criteria specified in clauses 10.3.2 and 10.3.2.3.10 of the AASHTO LRFD Bridge Construction Specifications.



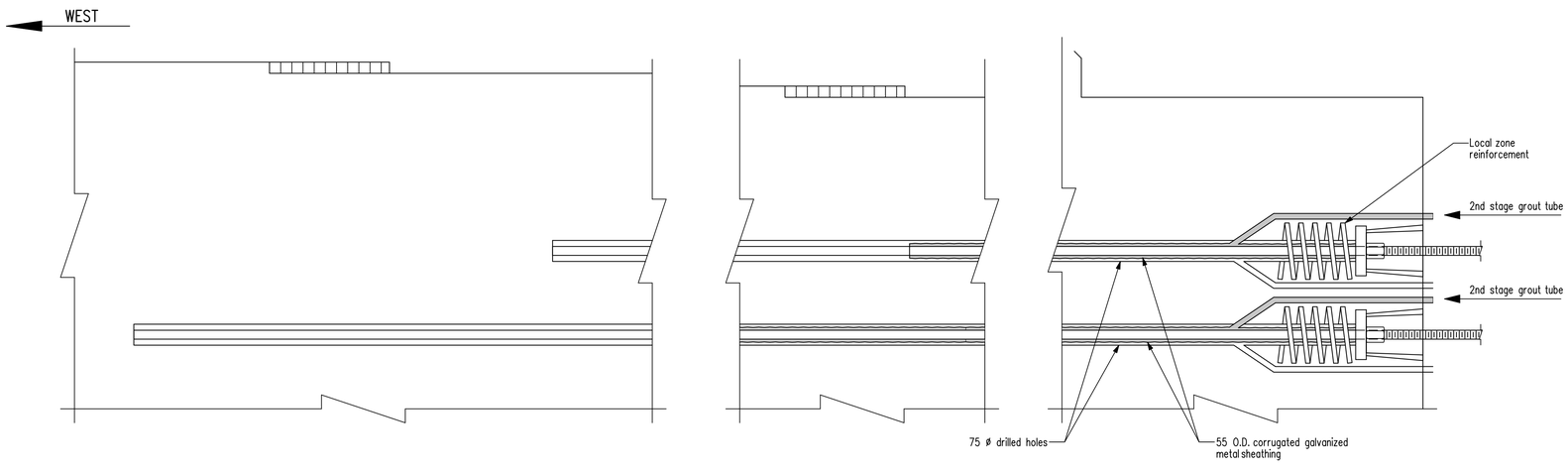
GROUTING STAGE 1

Prior to threadbar stressing.
Shown normal to face of pier.
Scale 1 : 10



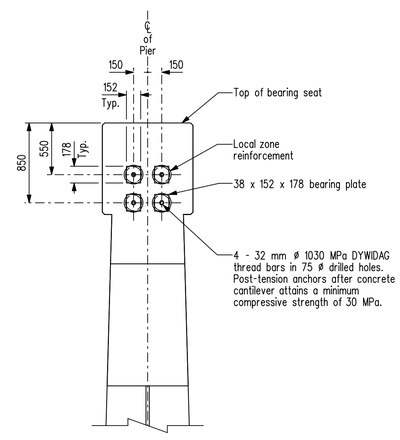
THREADBAR DETAIL

Showing final detail after stressing.
Scale 1 : 20



GROUTING STAGE 2

After threadbar stressing.
Shown normal to face of pier.
Scale 1 : 10



PIER END ELEVATION

REVISIONS		
10/03/04	J.J.	As built
DATE	BY	DESCRIPTION

PROVINCE OF MANITOBA
Original signed by
M. B. CHISLETT
09/04/20
REGISTERED PROFESSIONAL ENGINEER

CANTILEVER DYWIDAG DETAILS

RECONSTRUCTION AND STRENGTHENING OF EXISTING BRIDGE
OVER ASSINIBOINE RIVER - CONTRACT ONE
ON P.T.H. No. 100 IN R.L.'S 72, 73 & 94
PARISH OF ST. CHARLES

CITY OF WINNIPEG

Manitoba
Infrastructure and Transportation
Water Control & Structures

RELEASED FOR CONSTRUCTION
BY: Original signed by Ruth J. Eden 09/05/01
DIRECTOR — DATE
STRUCTURES, DESIGN AND CONSTRUCTION BRANCH

DESIGN	BY: M.B.C.	SCALE: 1 : 30	SHEET No. 10
	CHECKED: A.H.P.		
DETAILS	BY: M.S.	or as shown	SITE No. 2924-00
	CHECKED: M.B.C.		