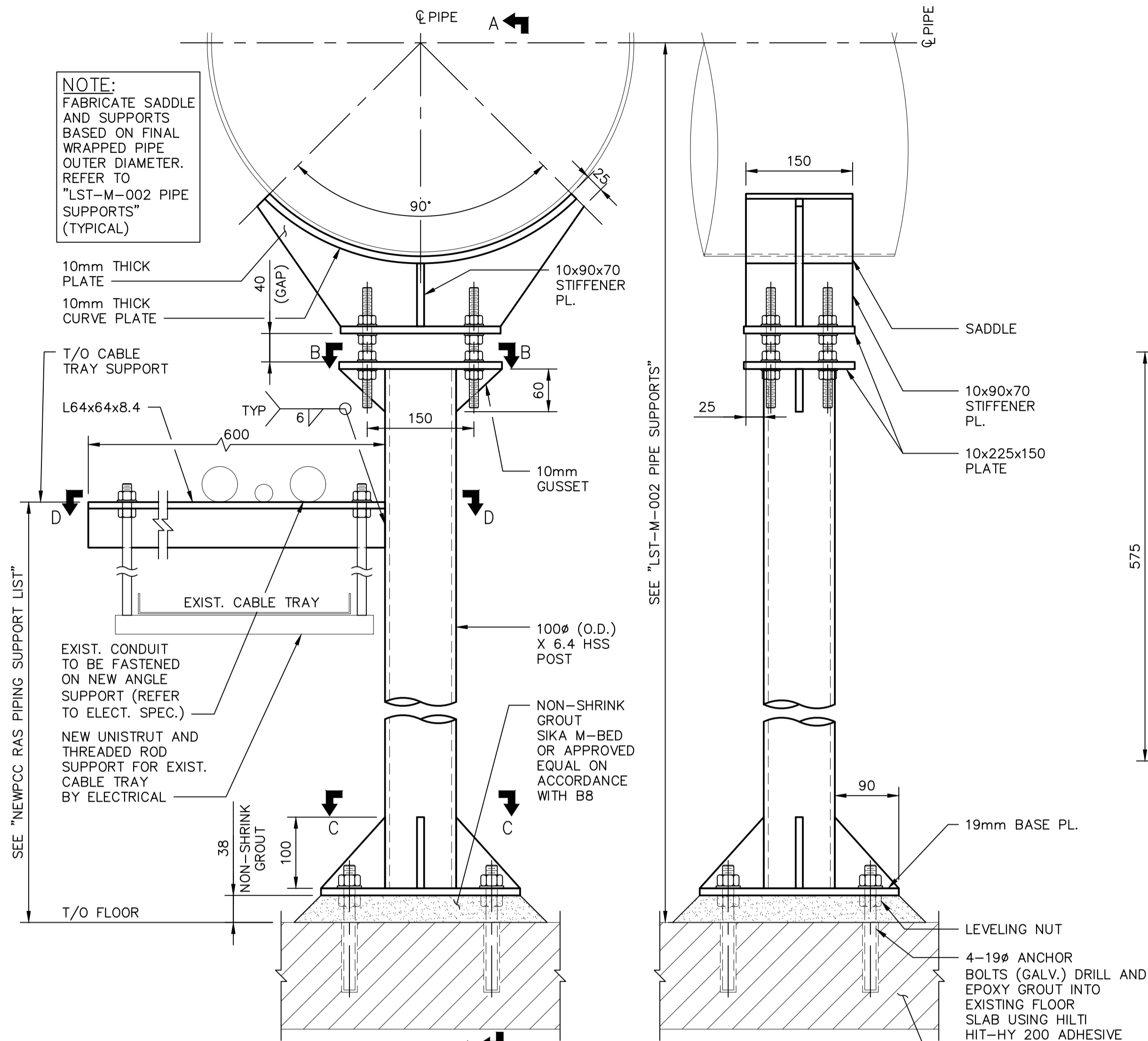


NOTE:
FABRICATE SADDLE
AND SUPPORTS
BASED ON FINAL
WRAPPED PIPE
OUTER DIAMETER.
REFER TO
"LST-M-002 PIPE
SUPPORTS"
(TYPICAL)

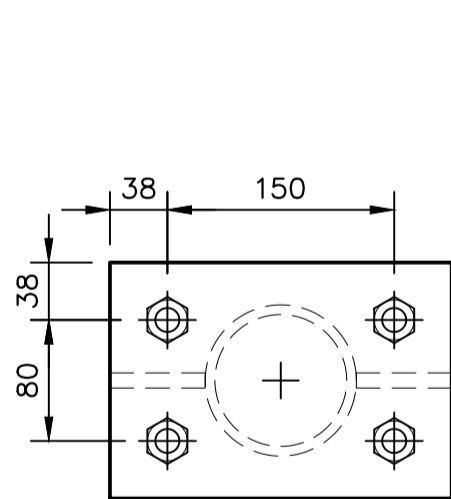


TYPE 1 - TYPICAL STANDPIPE SUPPORT

SCALE: 1:5

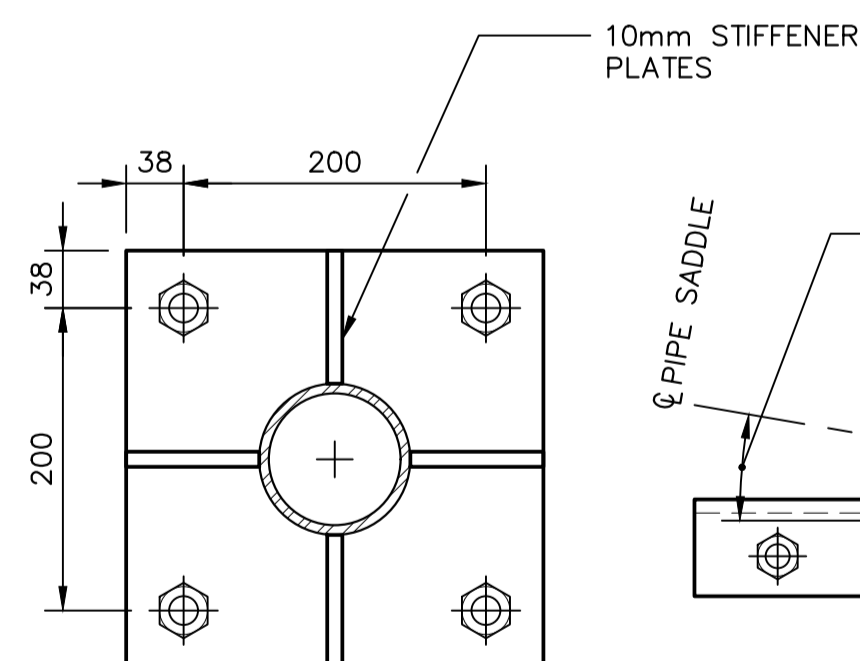
SECTION A-A

SCALE: 1:5



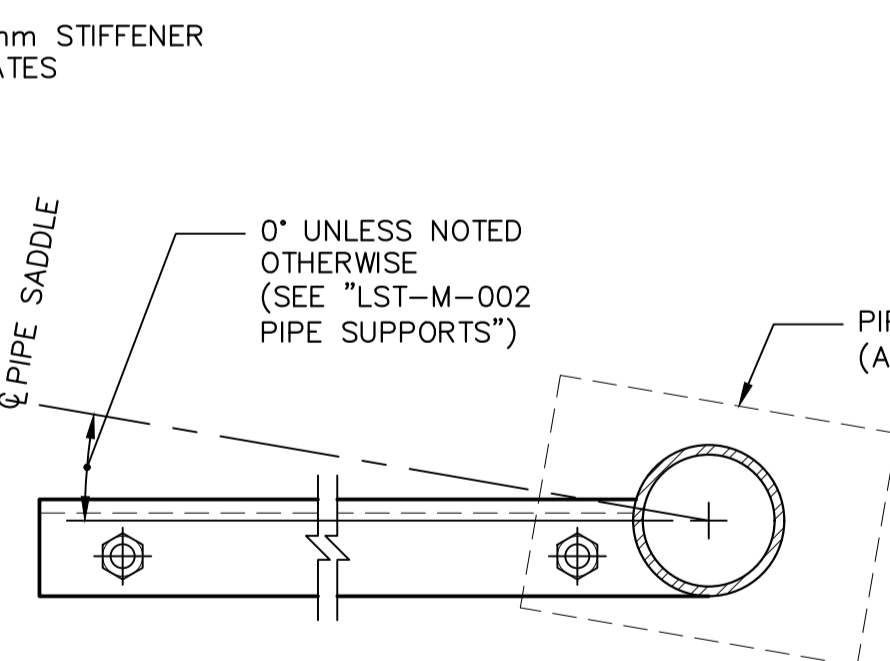
SECTION B-B

SCALE: 1:5



SECTION C-C

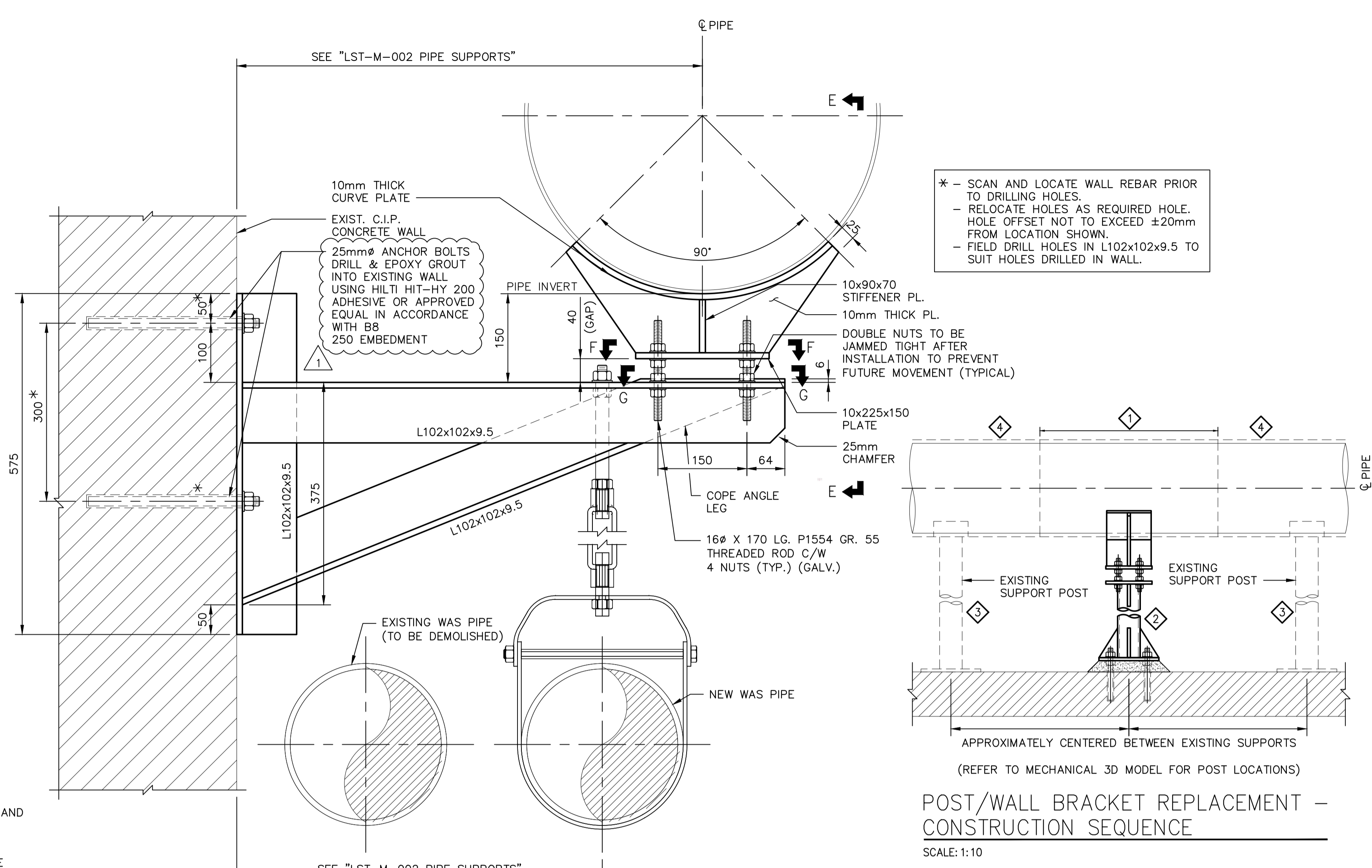
SCALE: 1:5



SECTION D-D

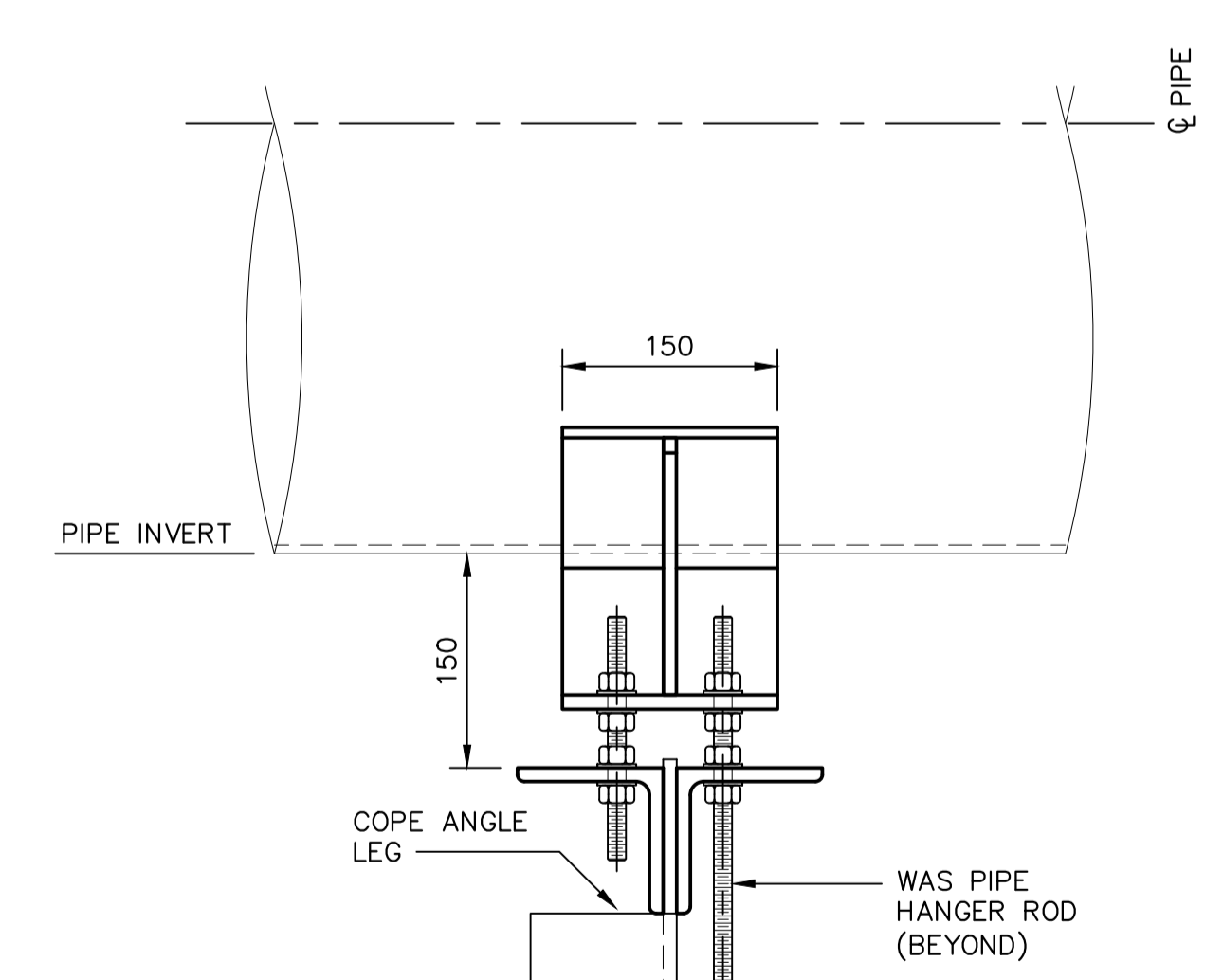
SCALE: 1:5

NOTE:
ALL THREADED RODS, ANCHORS
AND BOLTS GALVANIZED.



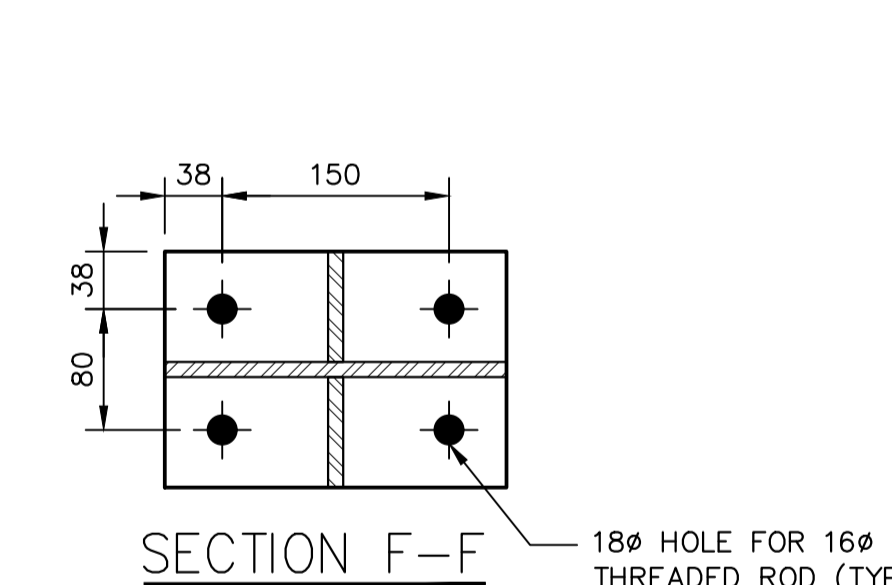
TYPE 2 - TYPICAL WALL BRACKET SUPPORT

SCALE: 1:5



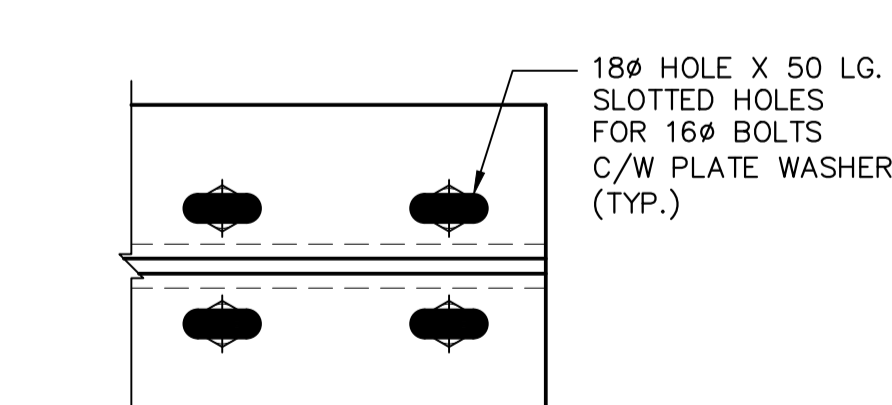
SECTION E-E

SCALE: 1:5



SECTION F-F

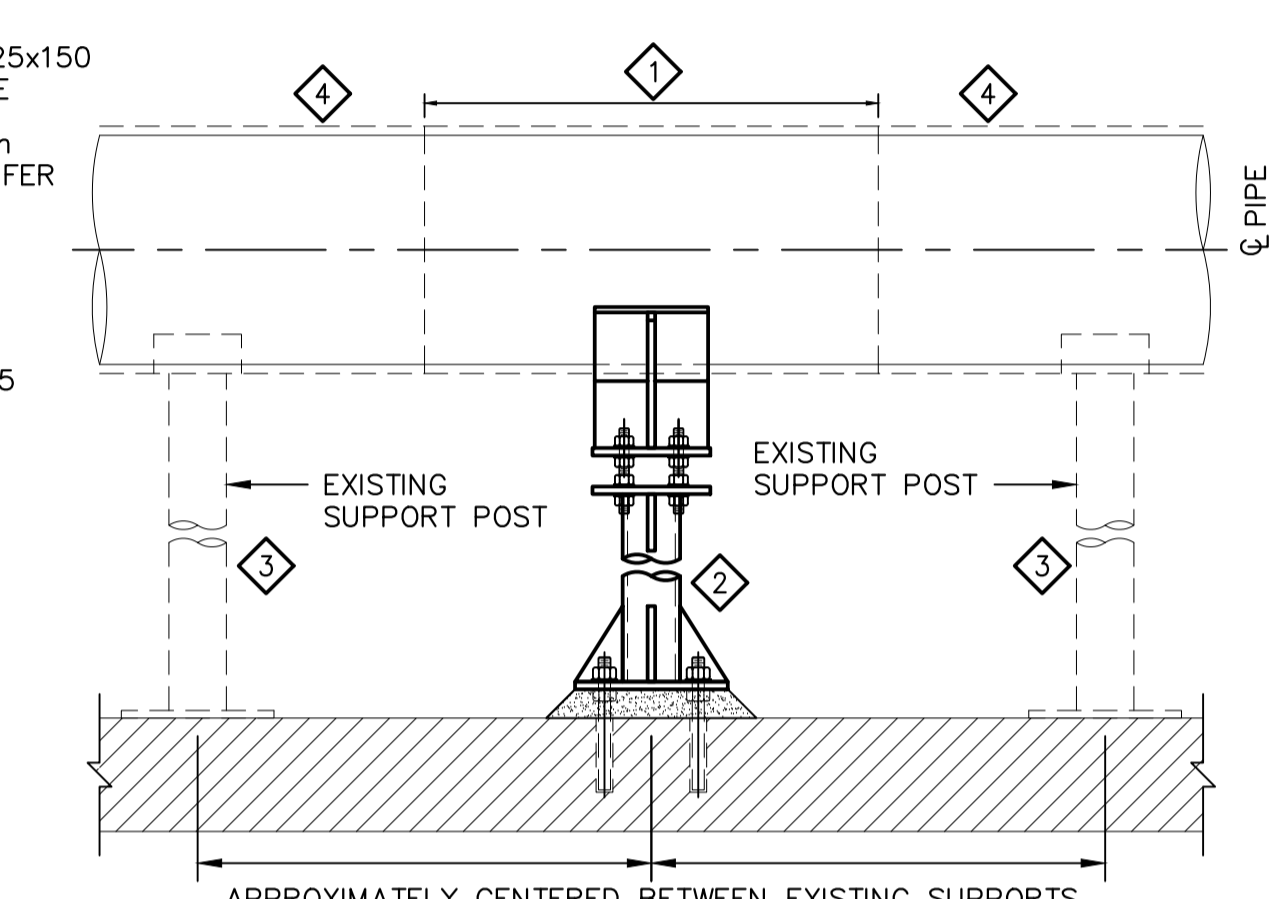
SCALE: 1:5



SECTION G-G

SCALE: 1:5

* - SCAN AND LOCATE WALL REBAR PRIOR TO DRILLING HOLES.
- RELOCATE HOLES AS REQUIRED HOLE. HOLE OFFSET NOT TO EXCEED ±20mm FROM LOCATION SHOWN.
- FIELD DRILL HOLES IN L102x102x9.5 TO SUIT HOLES DRILLED IN WALL.



POST/WALL BRACKET REPLACEMENT - CONSTRUCTION SEQUENCE

SCALE: 1:10

CONSTRUCTION SEQUENCE:

SCHEMATIC SHOWN IS FOR STANDPIPE SUPPORTS BUT OUTLINED CONSTRUCTION SEQUENCE ALSO APPLIES TO WALL BRACKET SUPPORTS.

- 1 INSTALL CARBON FIBER COMPOSITE WRAP ON PIPE SEGMENTS BETWEEN EXISTING PIPE SUPPORTS.
- 2 INSTALL NEW PIPE SUPPORTS ON EACH SIDE OF EXISTING SUPPORTS AT THE DISTANCES SHOWN. FOLLOW THESE INSTRUCTIONS FOR EACH STANDPIPE:
 - INSTALL STANDPIPE ANCHOR BOLTS AND LEVELING NUTS. PLACE STANDPIPE ON LEVELING NUTS.
 - PLACE PIPE SADDLE TO UNDERSIDE OF PIPE, OFFSET FROM STANDPIPE, AND SLIDE SADDLE LONGITUDINALLY ALONG PIPE UNTIL DIRECTLY ABOVE STANDPIPE.
 - INSTALL THREADED RODS AND NUTS AS SHOWN. ENSURE TOP OF SADDLE MAKES CONTACT WITH PIPE INVERT BY TURNING NUT USING "FINGER TIGHT" METHOD.
 - ONCE TOP OF SADDLE CONTACTS THE PIPE INVERT, TURN NUTS AN ADDITIONAL 1/4 TURN. TO ENSURE PIPE IS IN FULL CONTACT WITH SADDLE. DO NOT OVER-TIGHTEN BOLTS.
- 3 REMOVE EXISTING PIPE SUPPORTS. DEMOLISH EXISTING BASEPLATE GROUT AND CUT EXISTING ANCHORS FLUSH WITH FLOOR. REPAIR DAMAGED FLOOR SURFACE IF REQUIRED FOLLOWING 03 30 00 "CAST-IN-PLACE CONCRETE".
- 4 COMPLETE INSTALLATION OF CARBON FIBER COMPOSITE WRAP IN THE AREAS OF REMOVED PIPE SUPPORTS. TRANSITION TO PREVIOUSLY INSTALLED WRAP TO FORM CONTINUOUS ENCAPSULATION OF EXISTING PIPE.

THIS CONTRACT DRAWING IS INTENDED TO DEFINE THE EXTENTS OF WORK FOR THE COMPOSITE PIPE WRAP REPAIR, AND REPLACEMENT OF SPECIFIED PIPING. THE DESIGN OF THE COMPOSITE PIPE WRAP REPAIR SYSTEM, AND THE INTEGRITY OF THE NEWLY REPAIRED RAS PIPING IS THE RESPONSIBILITY OF THE CFRP DESIGN ENGINEER AS DEFINED IN THE TENDER DOCUMENTS.

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
		REFERENCE DRAWINGS



B.M. ELEV.	
CONSTRUCTION COMPLETION DATE: YYYY MM DD	
DESIGNED BY	J. WALTER
CHECKED BY	C. SIEPMAN
DRAWN BY	F. VALENCIA
APPROVED BY	CMS
SCALE:	AS SHOWN
RELEASED FOR CONSTRUCTION	
DATE	21 05 03

KGS GROUP	
DESIGNED BY	J. WALTER
CHECKED BY	C. SIEPMAN
DRAWN BY	F. VALENCIA
APPROVED BY	CMS
SCALE:	AS SHOWN
RELEASED FOR CONSTRUCTION	
DATE	21 05 03

ENGINEER'S SEAL	
CONSULTANT DRAWING NUMBER	21-0107-001_S01

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

**NORTH END SEWAGE TREATMENT PLANT (NEWPCC)
RETURN ACTIVATED SLUDGE (RAS)
PIPING REFURBISHMENT**

PIPING GALLERY EAST-WEST SECTION AND DETAILS

CITY DRAWING NUMBER **1-0101S-S0020-001** SHEET **1** OF **3**