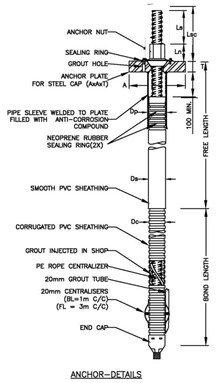
PHYSICAL PROPERTIES

GRADE	MPa	WR (950/1050)					E (835/1035)		
DIAMETER	(mm)	26.5	32	36	40	47	57	65	75
ULTIMATE	(kN)	579	844	1069	1319	1820	2671	3447	4572
YIELD	(kN)	524	764	967	1194	1652	2155	2780	3690
AREA	(mm2)	552	804	1018	1257	1735	2581	3331	4418

DIMENSIONS (mm)

BAR DIAMETER		26.5	32	36	40	47	57	65	75
BEARING PLATE	A x T	180x40	20x45	220x50	240x55	260x50	330x70	370x75	420x85
PIPE OD	Dp	64	70	76	76	114	127	127	168.3
NUT LENGTH	Ln	60	72	75	83	105	120*	130*	145*
STRESSING LENGTH	Ls	90	100	110	130	135	120	130	145
CAPPED LENGTH	Lsc	210	210	210	240	280	280	280	280
SMOOTH SHEAT OD	Ds	58	63	73	76	85	110	110	125
CORRUGATED SHEATH OD	Dc	50	56	65	65	80	100	100	114

*HEX NUT



ANCHOR—DETAILS

CHARACTERISTICS

1. POST-TENSIONING TENDONS ARE DSI THEADBAR, DOUBLE CORROSION PROTECTED SYSTEM, SHOP ASSEMBLED AND GROUTED
2. THREADBARS ARE PROOF STRESSED AND STRESS RELEIVED
3. SHOP GROUT:
   - CEMENTITIOUS NEAT LEAN GROUT W/O AGGREGATES,
   - MAXIMUM WATER CEMENT RATIO=0.36 (BY WEIGHT),
   - CEMENT: GENERAL PURPOSE TYPE GP,
   - ADDITIVE: VISCOCRETE 10, 0.25% (BY WEIGHT),
4) DURING TENSIONING, DRAW IN AT NUT=1mm & COUPLER SLIP=1.5mm

INSTALLATION PROCEDURE

1. DRILL HOLE: GROUT AND RE-DRILL IF REQUIRED
2. ASSEMBLE PRE-GROUTED BARS WITH PLATES, NUTS, GROUT TUBES, CENTRALISERS AND COUPLERS (IF APPLICABLE) AND INSERT ANCHOR IN HOLE
3. TREMIE GROUT ALONG ENTIRE ANCHOR LENGTH
4. ONCE GROUT REACHES REQUIRED STRENGTH, TEST ACCORFING TO SPECIFICATIONS
5. INSTALL PROTECTIVE CAPS (IF REQUIRED)

CAUTION

1. DO NOT WELD TO BAR
2. DO NOT USE BAR AS GROUND FOR WELDING
3. DO NOT ALLOW HOT SLAG OR SPARKS TO TOUCH BAR
4. DO NOT DAMAGE BAR SURFACE
5. DO NOT USE BARS WITH KINKS OR SHARP BENDS
6. FAILURE TO HEED THIS WARNING COULD CAUSE BAR TO BREAK RESULTING IN INJURY OR DAMAGE

WARNING

AT NO TIME DURING STRESSING AND REMOVAL OF THE JACK, SHALL PERSONS STAND IN LINE WITH THE TENDONS OR BEND OVER ALREADY STRESSED TENDONS

NOTE:

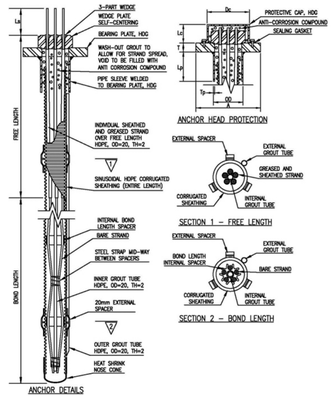
1. PROTECTIVE CAPS ARE REQUIRED. PROTECTIVE CAPS ARE TO BE REPLACED AT EVERY TESTING OF THE ANCHOR.
2. ALL BARS TO BE PRETENSIONED (TO 50KN) AND LOAD TESTED PERIODICALLY. MULTIPLE RETENTION PHASES ARE EXPECTED DURING THE 12 MONTH CONSTRUCTION PERIOD TO ENSURE PRETENSION LOADING DUE TO THE POOR GROUND NEAR THE SURFACE OF THE ANCHOR BLOCK. PERIODIC LIFT TESTS WILL BE REQUIRED PER 5 YEARS OF INSTALLATION.
3. REFER TO MANUFACTURERS SPECIFICATIONS FOR INSTALLATION.
4. REFER TO MANUFACTURERS SPECIFICATIONS FOR TESTING.
5. LOAD TRANSFER BLOCK TO BE CONSTRUCTED TO ALLOW FOR TESTING OF EACH ANCHOR BAR AT SPECIFIC INCLINATIONS AND ORIENTATIONS.

NOTE:

1. FOR GENERAL NOTES REFER TO DRAWING J0439-STR-DRG-S1010
2. ALL STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS.

DIMENSIONS

STRAND CONFIGURATIONS		2-5	6-7	8-9	10-12	13 - 15
BEARING PLATE	A x T	250x32	290x36	330x40	380x45	420x50
PROTECTIVE CAP	Dc x Lc	161x85	205x95	205x95	212x170	256.4x120
PIPE SLEEVE	Lp x OD x Tp	350x114.3x6.0	400x114.3x6.0	500x168.3x6.4	550x168.3x6.4	650x168.3x6.4
CORRUGATED SHEATH	OD x ID	92x78	92x78	92x78	117x101	117x101
STRESSING LENGTH	Ls	750	1000	1500	1500	1500



ANCHOR DETAILS

15.2mm STRAND PROPERTIES

EXTRA HIGH TENSILE STRENGTH LOW RELAXATION STRAND
A = 143mm^2 MBL = 261kN

INSTALLATION PROCEDURE

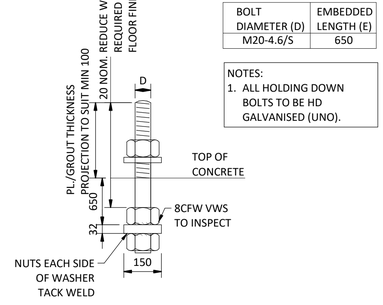
1. DRILL REQUIRED HOLES. IF APPLICABLE, GROUT AND RE-DRILL UNTIL WATERTIGHT
2. INSERT CORRUGATE SHEATHING WITH PRE-ASSEMBLED OUTER GROUT TUBE & SPACERS
3. INSERT STRAND ANCHORS PRE-ASSEMBLED WITH INNER SPACERS AND GROUT TUBE
4. WATER TEST SHEATHING
5. SIMULTANEOUSLY GROUT THE INNER AND OUTER ANNULUS OF THE ENTIRE ANCHOR
6. 4 HOURS AFTER GROUTING, WASHOUT 0.5m BELOW PLATE
7. INSTALL BEARING PLATE WITH PIPE
8. FILL ANCHOR HEAD GREASE
9. INSTALL WEDGE PLATE AND WEDGES
10. ONCE GROUT REACHES MIN. 32MPa AND 7-DAYS, PERFORM TESTING AND LOCKING-OFF
11. ONCE TESTING & LOCKING-OFF ARE APPROVED, CUT STRANDS AND CAP

CAUTION

1. DO NOT WELD TO STRAND
2. DO NOT USE STRAND AS GROUND FOR WELDING
3. DO NOT ALLOW HOT SLAG OR SPARKS TO TOUCH STRAND
4. DO NOT DAMAGE STRAND SURFACE
5. DO NOT USE STRANDS WITH KINKS OR SHARP BENDS
6. FAILURE TO HEED THIS WARNING COULD CAUSE STRAND TO BREAK RESULTING IN INJURY OR DAMAGE

DIMENSIONS

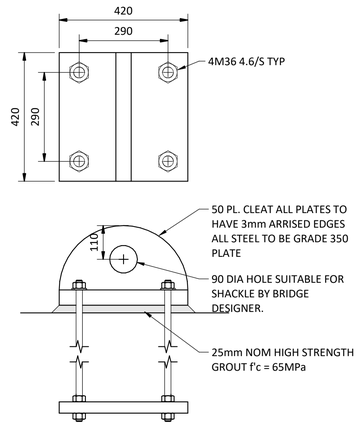
STRAND CONFIGURATIONS		16 - 19	20 - 22	23 - 31	32 – 37
BEARING PLATE	A x T	470x60	500x70	600x80	650x100
PROTECTIVE CAP	Dc x Lc	256.4x120	256.4x120	323.8x150	323.8x150
PIPE SLEEVE	Lp x OD x Tp	700x219.1x6.4	800x219.1x6.4	1000x273.1x6.4	1000x273.1x6.4
CORRUGATED SHEATH	OD x ID	145x127	145x127	241x203	241x203
STRESSING LENGTH	Ls	1500	1500	2000	2000



BOLT DIAMETER (D)	EMBEDDED LENGTH (E)
M20-4.6/S	650

NOTES:
1. ALL HOLDING DOWN BOLTS TO BE HD GALVANISED (UNO).

TYPICAL HOLD DOWN BOLT SCHEDULE
SCALE: 1 : 20



ANCHOR PLATE
SCALE: 1 : 10

IFC

CLIENT:	REV:	DATE:	DESCRIPTION:	APR'D:	TITLE:	NAME:
ASPECT Studios					DRAFTER	ESA
					DRAFTING CHECK	TM
					DESIGNER	JB
					DESIGN CHECK	JA/CMW
					PROJECT MANAGER	JA
PRINT IN COLOUR	C1	31/08/2022	ISSUED FOR CONSTRUCTION	JA	PROJECT DIRECTOR	JA

MARION COASTAL WALKWAY UPGRADE
CELL 5 AND 6
HALLETT COVE, SA 5158
STANDARD DETAILS

INNOVIS Agile Outcomes www.innovis.com.au

SCALE:	DATE:	PHASE:	SHT SIZE:
As indicated	31/08/2022	IFC	A1
DRAWING NUMBER:			REVISION:
J0439-STR-DRG-S1011			C1

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PRINT DATE: 31/08/2022 7:18:57 PM

FILE LOCATION: C:\Users\chad.shepherd\Documents\J0439-STR-MOD_Coastal Walking Trail Bridge Setout_R21_chad.shepherdC553Q.rvt

10mm AT A1 0 10 20 30 40 50 60 70 80 90 100