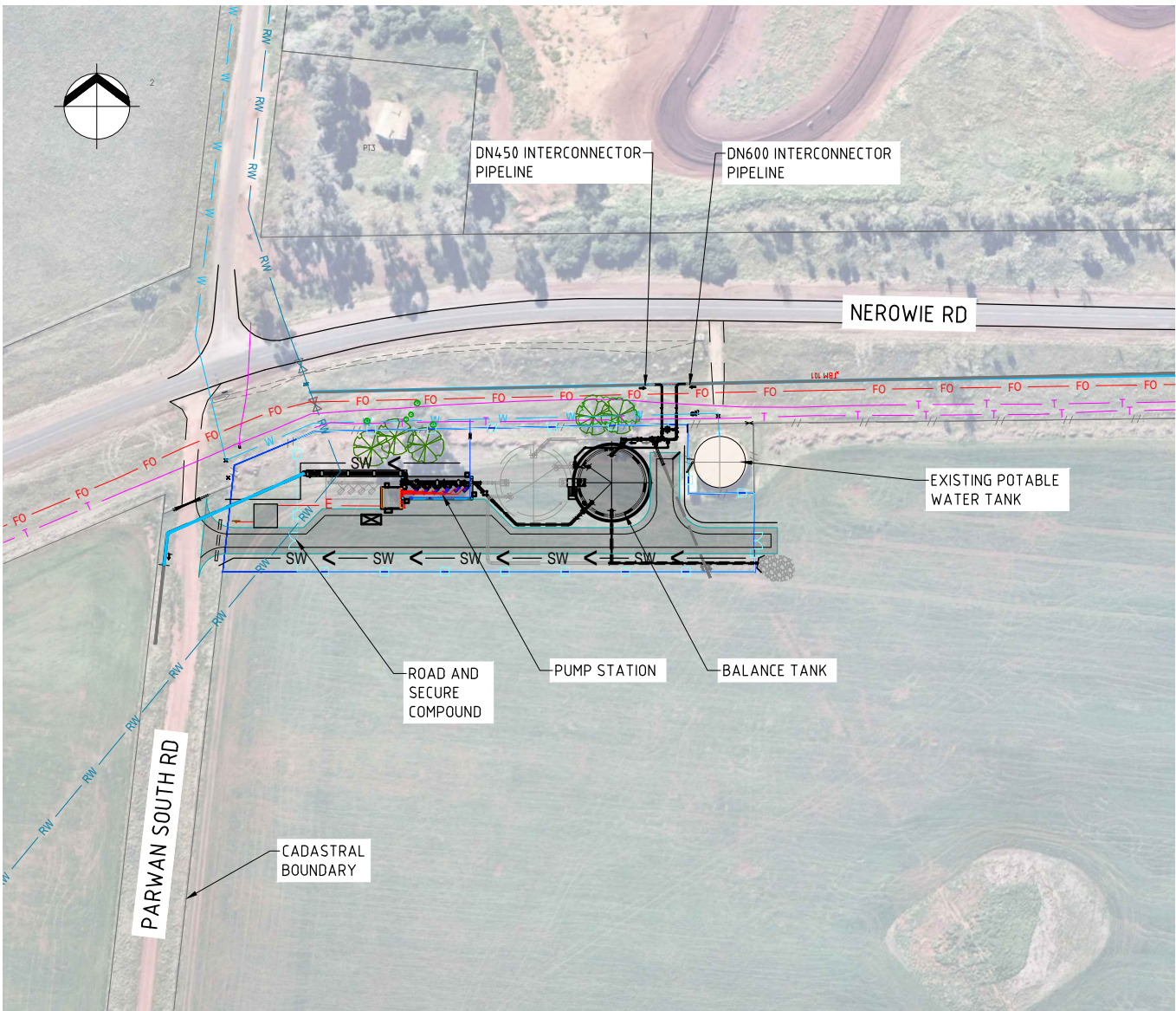


PARWAN BALLIANG IRRIGATION DISTRICT PUMPING STATION



PLAN
SCALE: 1:1000

DRAWING LIST - PUMPING STATION AND BALANCE TANK

DRAWING No.	DRAWING TITLE
R0602-R-PBID-PS-G-0001	COVER SHEET, DRAWING LIST AND LEGEND
R0602-R-PBID-PS-G-0002	GENERAL NOTES
R0602-R-PBID-PS-G-0003	STRUCTURAL STEEL NOTES
R0602-R-PBID-PS-C-0001	SITE LAYOUT
R0602-R-PBID-PS-M-0001	PUMPING STATION GENERAL ARRANGEMENT
R0602-R-PBID-PS-M-0002	PUMPING STATION PLAN
R0602-R-PBID-PS-M-0003	PUMPING STATION ELEVATIONS
R0602-R-PBID-PS-P-0001	PROCESS AND INSTRUMENTATION DIAGRAM LEGEND SHEET
R0602-R-PBID-PS-P-0002	WESTERN IRRIGATION NETWORK OVERALL SYSTEM CONTROL SCHEMATIC
R0602-R-PBID-PS-P-0003	PROCESS AND INSTRUMENTATION DIAGRAM PUMPING STATION
R0602-R-PBID-PS-E-0001	SINGLE LINE DIAGRAM
R0602-R-PBID-PS-E-0002	CONTROL SYSTEM ARCHITECTURE

LEGEND

	PROPOSED RECYCLED WATER PIPELINE		EXISTING WATER MAIN
	PROPOSED RECYCLED WATER PIPELINE (BY OTHERS)		EXISTING RECYCLED WATER MAIN
	FUTURE RECYCLED WATER PIPELINE		EXISTING ELECTRIC CABLE
	PROPOSED WATER PIPE		EXISTING FIBRE OPTIC
	PROPOSED DRAINAGE		EXISTING TELSTRA
	PROPOSED ELECTRIC CABLE		EXISTING CONTOUR
	PROPOSED SWALE (AND DIRECTION OF FLOW)		EXISTING SECURITY FENCE
	PROPOSED SECURITY FENCE		EXISTING LOT BOUNDARY
	PROPOSED LOT BOUNDARY		
	UNSEALED PAVEMENT		

0 10 20 40 60
Full Size A1 1:1000 ; Half Reduction A3 1:2000
SCALE (m)



WARNING
BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

FOR TENDER
NOT FOR CONSTRUCTION

T0	ISSUED FOR TENDER	28.10.20	DAP
REV	ZONE	DESCRIPTION	DATE



DESIGNED AJ	DRAWN AJ
DESIGN CHECK LS	DRAFT CHECK AGS
APPROVED DAP	



PARWAN BALLIANG IRRIGATION DISTRICT PUMPING STATION
COVER SHEET, DRAWING LIST AND LEGEND

PLAN TYPE:	GENERAL
SCALE:	1:1000
DRAWING NUMBER	
R0602-R-PBID-PS-G-0001	T0
NUMERAL	REV

1. ALL LEVELS ARE EXPRESSED IN METRES ABOVE AUSTRALIAN HEIGHT DATUM (AHD)
2. COORDINATES ARE TO MAP GRID OF AUSTRALIA 1994 (MGA 55)
3. DO NOT SCALE DRAWINGS
4. TITLE BOUNDARIES SHOWN ON THE PLANS ARE FROM CADASTRAL GIS DATA AND MAY NOT REFLECT THE LEGAL TITLE BOUNDARIES.
5. EXISTING SERVICES SHOWN ON THE DRAWINGS SHALL BE CONSIDERED AS INDICATIVE ONLY AND THE LOCATION OF ALL EXISTING SERVICES SHALL BE CONFIRMED ON SITE. ANY SERVICE FOUND TO BE IN A DIFFERENT LOCATION AS SHOWN ON THE PLANS SHALL BE REPORTED TO THE DESIGNER IMMEDIATELY
6. MINIMUM CLEARANCES FROM EXISTING SERVICES ARE TO BE MAINTAINED UNLESS WRITTEN AGREEMENT ON REDUCED CLEARANCES ARE OBTAINED FROM WESTERN WATER AND THE SERVICE OWNER.

UTILITY (EX. SERVICES)	MINIMUM HORIZONTAL CLEARANCE (mm)	MINIMUM VERTICAL CLEARANCE (mm)
WATER MAINS (>DN375)	600	300
WATER MAINS (≤DN375)	600	150
GAS MAINS	600	150
TELECOM CONDUITS AND CABLES	600	150
ELECTRICITY CONDUITS AND CABLES	1000	225
DRAINS	600	150
SEWERS - PRESSURE	600	300
KERBS	600	150 (WHERE POSSIBLE)

7. ALL DIMENSIONS SHOWN ARE NOMINAL. ACTUAL LOCATION OF PROPOSED DN450 AND DN600 INTERCONNECTOR PIPELINE IS TO BE DETERMINED ON SITE.
8. ROAD OPENING PERMITS SHALL BE OBTAINED PRIOR TO ANY WORKS IN ROAD RESERVES COMMENCING AND ALL REQUIREMENTS SHALL BE COMPLIED WITH.

- M1. REFER TO TECHNICAL SPECIFICATIONS FOR MECHANICAL EQUIPMENT, PIPEWORK AND SYSTEM REQUIREMENTS.
- M2. THE PUMP STATION LAYOUT SHOWN IN THE PRELIMINARY DRAWINGS AND PANDID ARE BASED ON PRELIMINARY PUMP SELECTIONS TO MEET THE SPECIFIED DUTY. DETAIL DESIGN IS REQUIRED BY THE CONTRACTOR FOR PUMP SELECTIONS, SYSTEM ARRANGEMENTS AND ELECTRICAL REQUIREMENTS.
- M3. THE LAYOUT OF THE PROPOSED TANKS, PUMP STATION AND PIPELINE REQUIRE SITE SURVEY AND DIMENSIONAL CHECKS. LOCATION OF UNDERGROUND SERVICES AND OTHER INFRASTRUCTURE IS TO BE CONFIRMED USING SURVEYS AND SHALL BE CARRIED OUT BY THE CONTRACTOR BEFORE COMMENCING THE DESIGN.
- M4. IDENTIFICATION OF CONTENTS OF PIPEWORK, CONDUITS AND DUCTS SHALL COMPLY WITH AS1345 AND WSA03 – WATER SUPPLY CODE OF AUSTRALIA.
- M5. REFER TO DRG R0602-PBID-PS-G-001 FOR DRAWING LIST, SITE PLAN AND LEGEND.
- M6. REFER TO SCHEMATICS AND PANDID'S R0602-PBID-PS-P-0001, P-0002 AND P-0003.
- M7. FOR EARTHWORKS AND DRAINAGE REFER TO CIVIL DRAWINGS.
- M8. FOR CONCRETE SLABS, PIT, LADDER RUNGS, SUMPS AND OPENINGS REFER TO STRUCTURAL SPECIFICATION.
- M9. ALL ABOVE GROUND STAINLESS STEEL PIPEWORK SHALL BE GRADE 316 WITH FLANGES RATED TO SUIT THE PROJECT PRESSURE REQUIREMENTS. NOTE THAT THERE MAY BE DIFFERENT FLANGE TYPES SUPPLIED WITH THE PUMP, VALVES AND FITTINGS. THE EQUIPMENT FLANGE SHALL NOT HAVE A PRESSURE RATING LESS THAN THAT OF A TABLE E FLANGE. THE MATING FLANGES ON THE PIPEWORK SHALL BE SUPPLIED AND INSTALLED TO MATCH. ALL REQUIREMENTS TO BE CONFIRMED PRIOR TO ORDERING.
- M10. ALL BURIED STAINLESS STEEL PIPING SHALL BE DENSOWRAPPED.
- M11. STAINLESS STEEL FABRICATION AND WELDING SHALL COMPLY WITH THE REQUIREMENTS OF ALL RELEVANT AUSTRALIAN STANDARDS AND BEST INDUSTRIAL PRACTICE.
- M12. PROVIDE KLINGERSIL FLANGE INSULATION KIT OR EQUIVALENT WHERE DIFFERENT MATERIALS ARE USED FOR MATING FLANGES OR WAFER TYPE VALVES AND FITTINGS.
- M13. BURIED FLANGE CORROSION PROTECTION SHALL COMPLY WITH MRWA-W-306A
- M14. PROVIDE CORROSION PROTECTION INCLUDING MATERIAL SELECTION, PROTECTIVE COATINGS AND MATERIAL SEPARATION WHERE REQUIRED. REFER TO TECHNICAL SPECIFICATION.

- E1. REFER TO ELECTRICAL AND CONTROLS SPECIFICATION FOR PERFORMANCE REQUIREMENTS
- E2. REFER TO WIN SCHEME CONTROL PHILOSOPHY REPORT FOR OVERALL SYSTEM OPERATION DESCRIPTION.
- E3. THE PBID PUMP STATION REQUIRES A DANFOSS AQUA DRIVE FC202 LOW HARMONIC VARIABLE SPEED DRIVE FOR EACH PUMP
- E4. THE MAIN PLC AT THE PUMP STATION WILL BE ALLEN BRADLEY COMPACTLOGIX SERIES WITH KINGFISHER RTU FOR COMMUNICATION BACK TO THE MAIN SCADA SYSTEM.

- G1. STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH MECHANICAL, SERVICES, CIVIL AND OTHER PROJECT DRAWINGS, AND WITH SUCH OTHER WRITTEN INSTRUCTIONS, WHICH MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY OR VARIATIONS SHALL BE REFERRED TO THE WESTERN WATER BEFORE PROCEEDING WITH THE WORK.
- G2. ALL MATERIALS AND WORKSMANSHIP WILL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS, THE BY-LAWS AND ORDINANCES OF THE RELEVANT AUTHORITIES EXCEPT WHERE VARIED BY THE DRAWINGS.
- G3. ALL DIMENSIONS SHALL BE VERIFIED ON SITE, BEFORE THE RELEVANT CONSTRUCTION AND FABRICATION IS COMMENCED. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS, NOR BY MEASURING ELECTRONIC DRAWINGS. DISCREPANCIES SHALL BE REFERRED TO WESTERN WATER FOR RESOLUTION.
- G4. UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
- G5. DURING THE PROGRESS OF THE WORK, THE CONTRACTOR SHALL KEEP THE PREMISES IN A NEAT AND ORDERLY CONDITION, FREE FROM CONSTRUCTION DEBRIS. FINISHED SURFACES SHALL BE KEPT THOROUGHLY CLEAN, FREE FROM MUD, DIRT AND OTHER FOREIGN MATTER.
- G6. PRIOR TO COMPLETION, THE CONTRACTOR SHALL REMOVE FROM SITE ALL OF HIS TOOLS, EQUIPMENT, SCAFFOLDING, TEMPORARY STRUCTURES AND SURPLUS MATERIALS.

DESIGN WORKING LIFE - CONCRETE (YEARS)	50
DESIGN WORKING LIFE - STEEL STRUCTURES (YEARS)	50
IMPORTANCE LEVEL (AS/NZS1170) - PUMP STATION BUILDING	3
IMPORTANCE LEVEL (AS/NZS1170) - OTHER	2

- D1. UNLESS NOTED OTHERWISE, STRUCTURAL ELEMENTS SHOWN ON THESE DRAWINGS SHALL BE DESIGNED FOR LOADING IN ACCORDANCE WITH AS/NZS1170 SERIES.
- D2. LOADING AND SERVICEABILITY LIMITS SHALL BE DESIGNED IN ACCORDANCE WITH AS/NZS1170 SERIES

GENERAL

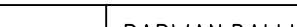
- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 CONCRETE STRUCTURES WITH AMENDMENTS EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- C2. ALL EXPOSED SLABS AND PAVEMENTS WILL BE DESIGNED TO BE FREE DRAINING WITH A MINIMUM FALL OF 1 IN 100. MINIMUM CONCRETE STRENGTH TO BE $f'_{c} = 40\text{Mpa}$
- C3. SIZES OF CONCRETE ELEMENTS ARE EXCLUSIVE OF APPLIED FINISHES.
- C4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE AS SHOWN ON INDIVIDUAL DRAWINGS
- C5. REINFORCING COVER TO BE DETERMINED IN ACCORDANCE WITH AS3600. EXPOSURE CLASSIFICATION TO BE CONFIRMED BY GEOTECHNICAL INVESTIGATION.
- C6. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN ONE METRE CENTRES BOTH WAYS.
- C7. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS.
- C8. ALL CONCRETE INCLUDING SLABS ON GROUND SHALL BE COMPACTED WITH MECHANICAL VIBRATORS
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS1379 AT INTERVALS DETERMINED BY THE CONTRACTOR.

FORMWORK

- W1. THE DESIGN, CERTIFICATION, CONSTRUCTION AND PERFORMANCE OF THE FORMWORK AND FALSE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR
- W2. DESIGN AND CONSTRUCTION AND STRIPPING TIMES TO COMPLY WITH AS3610 AND AS3600 UNLESS OTHERWISE APPROVED BY THE ENGINEER
- W3. CONCRETE FORMED SURFACES TO HAVE THE FOLLOWING FINISHES IN ACCORDANCE WITH AS3610

ELEMENT	SURFACE FINISH
PERMANENT SURFACE	CLASS 3

- F1. SITE PREPARATION TO ACHIEVE THE DESIGN ALLOWABLE BEARING PRESSURE. FILL AND TOP SOIL SHALL BE STRIPPED TO EXPOSE THE SUITABLE FOUNDING MATERIAL. UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH ENGINEERED FILL.
- F2. ADDITIONALLY, PUMP SLAB FOUNDATIONS AND PLINTHS SHALL BE DESIGNED TO WITHSTAND MAXIMUM PIPE THRUST
- F3. DUE CONSIDERATION SHALL BE GIVEN TO THE INERTIAL MASS OF THE FOUNDATIONS AND PUMP MOUNTING DETAILS TO LIMIT OPERATIONAL VIBRATIONS. THE MAXIMUM SHORT TERM VELOCITY OF VIBRATION SHALL BE LIMITED TO 8.0mm/s RMS WHEN MEASURED AT THE BASE OF THE PUMP PLINTH.
- F4. RING BEAMS SHALL BE DESIGNED TO WITHSTAND ALL TANK LOADS INCLUDING ACTIONS DUE TO WIND AND SEISMIC EVENTS. THE DESIGN IS TO BE BASED ON GEOTECHNICAL PARAMETERS SPECIFIC TO THE LOCAL SITE CONDITIONS. WHERE PRESENT, APPROPRIATE CONSIDERATION MUST BE GIVEN TO REACTIVE, LOW STRENGTH OR AGGRESSIVE SOILS AND ANY NON-UNIFORMITY IN THE GROUND STRATA. MAXIMUM CRACK WIDTHS FOR FLEXURE AND SHRINKAGE IN THE RING BEAM TO BE LIMITED TO 0.3mm

H						 CH2M Beça	DESIGNED	DRAWN		PARWAN BALLIANG IRRIGATION DISTRICT PUMPING STATION GENERAL NOTES	PLAN TYPE: GENERAL	
											SCALE: NTS	
											DRAWING NUMBER	
	T0		ISSUED FOR TENDER	28.10.20	DAP						R0602-R-PBID-PS-G-0002	T0
	REV	ZONE	DESCRIPTION	DATE	APP'D						NUMERAL	
	1	2	3	4	5	6	7	8	9	10	11	12



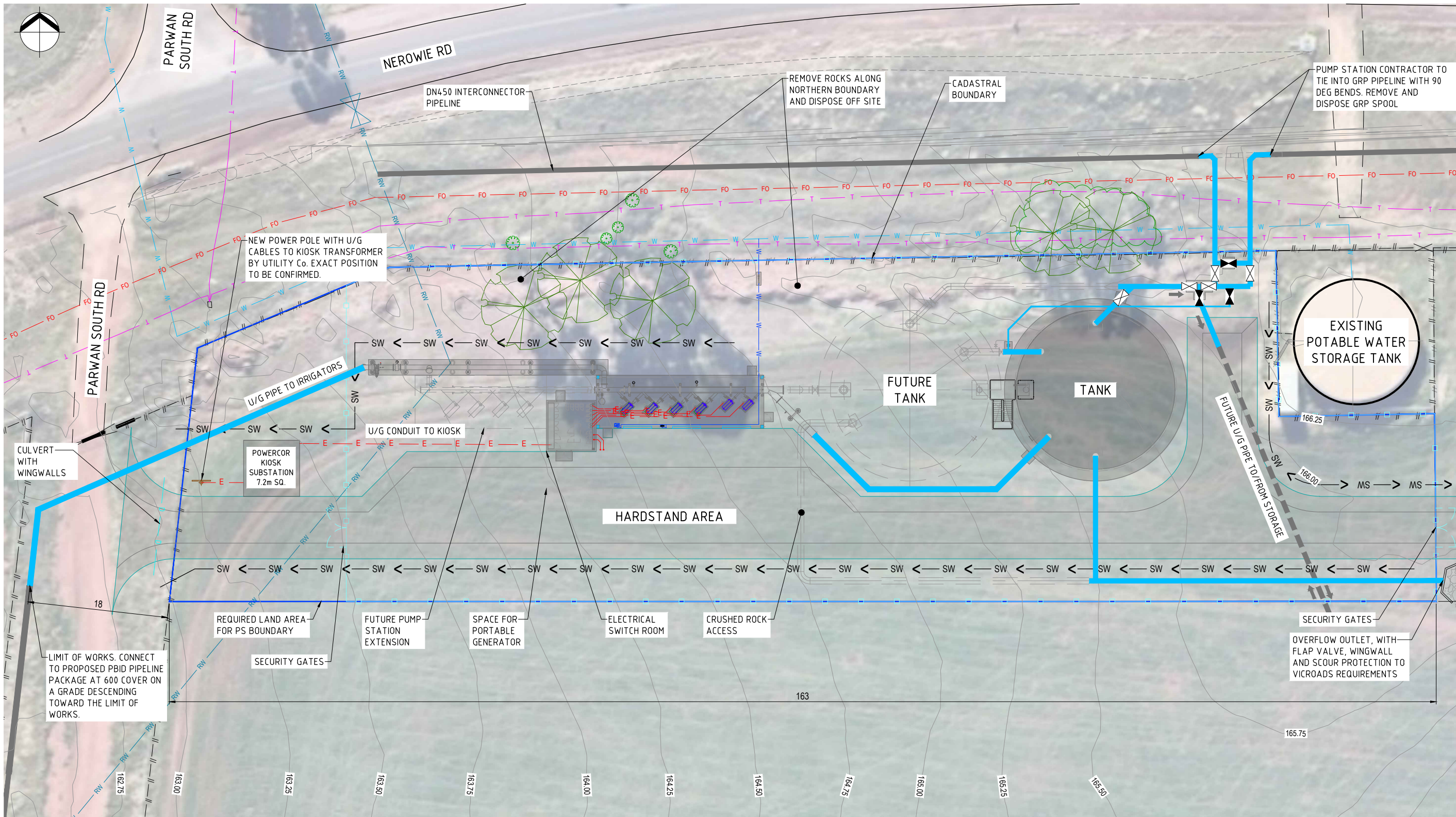
PARWAN BALLIANG IRRIGATION DISTRICT PUMPING STATION

GENERAL NOTES



WARNING
BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

FOR TENDER
NOT FOR CONSTRUCTION



NOTES

1. ALL DIMENSIONS ARE NOMINAL AND ARE PROVIDED FOR INFORMATION ONLY. THE D AND C CONTRACTOR IS RESPONSIBLE FOR THE FINAL DESIGN.
2. REFER TO DRAWING R0602-R-PBID-PS-G-0001 FOR DRAWING LIST AND LEGEND

PLAN
SCALE: 1:250

0 2.5 5 10 15
Full Size A1 1:250 ; Half Reduction A3 1:500
SCALE (m)



WARNING
BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

FOR TENDER
NOT FOR CONSTRUCTION

T0		ISSUED FOR TENDER	28.10.20	DAP
REV	ZONE	DESCRIPTION	DATE	APP'D

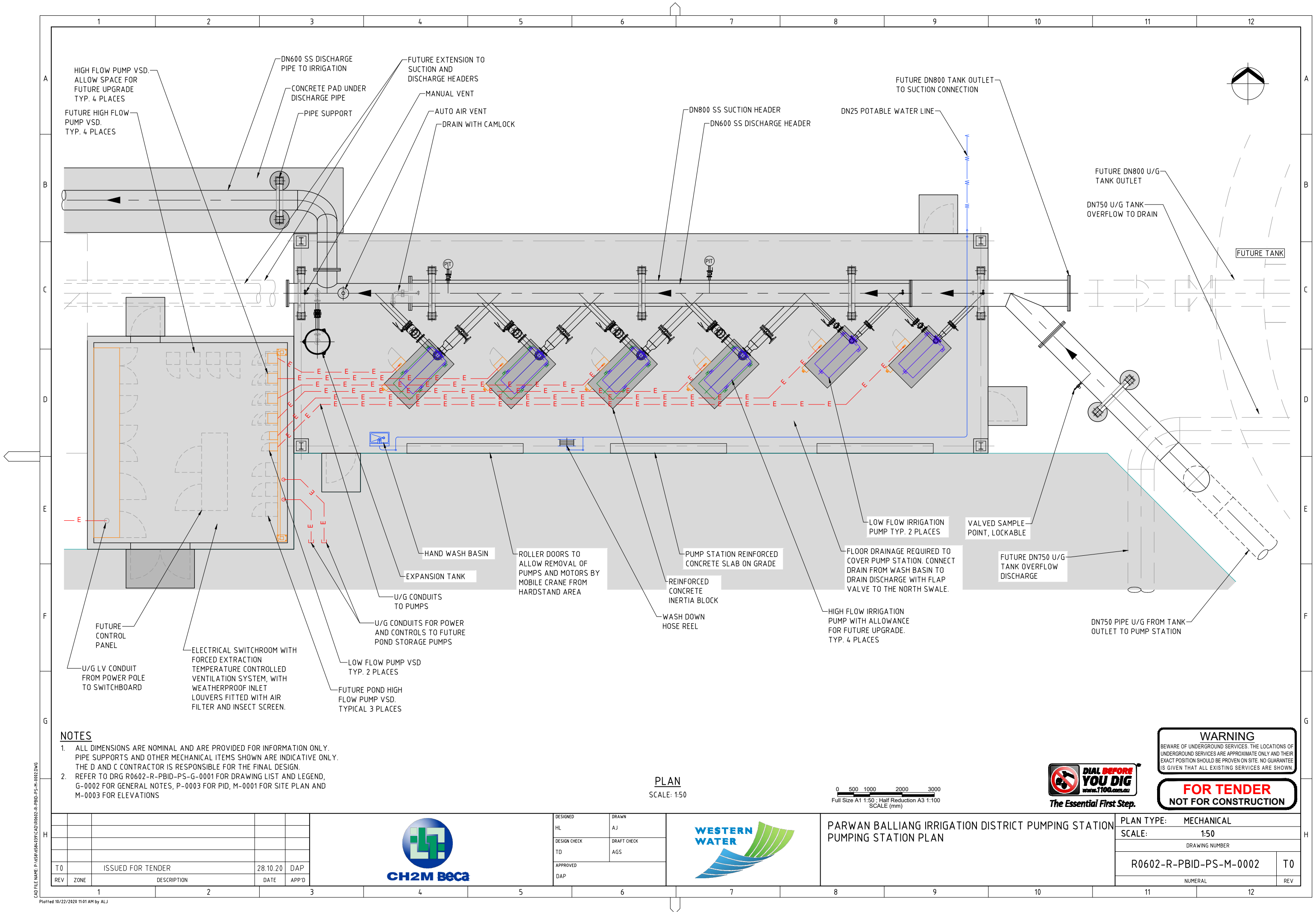


DESIGNED CD	DRAWN CD
DESIGN CHECK LS	DRAFT CHECK AGS
APPROVED DAP	



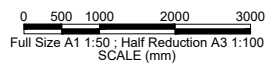
PARWAN BALLIANG IRRIGATION DISTRICT PUMPING STATION
SITE LAYOUT

PLAN TYPE:	CIVIL
SCALE:	1:250
DRAWING NUMBER	
R0602-R-PBID-PS-C-0001	T0
NUMERAL	REV



- NOTES**
- ALL DIMENSIONS ARE NOMINAL AND ARE PROVIDED FOR INFORMATION ONLY. PIPE SUPPORTS AND OTHER MECHANICAL ITEMS SHOWN ARE INDICATIVE ONLY. THE D AND C CONTRACTOR IS RESPONSIBLE FOR THE FINAL DESIGN.
 - REFER TO DRG R0602-R-PBID-PS-G-0001 FOR DRAWING LIST AND LEGEND, G-0002 FOR GENERAL NOTES, P-0003 FOR PID, M-0001 FOR SITE PLAN AND M-0003 FOR ELEVATIONS

PLAN
SCALE: 1:50



WARNING

BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN

FOR TENDER

NOT FOR CONSTRUCTION

T0		ISSUED FOR TENDER	28.10.20	DAP
REV	ZONE	DESCRIPTION	DATE	APP'D
1				
2				



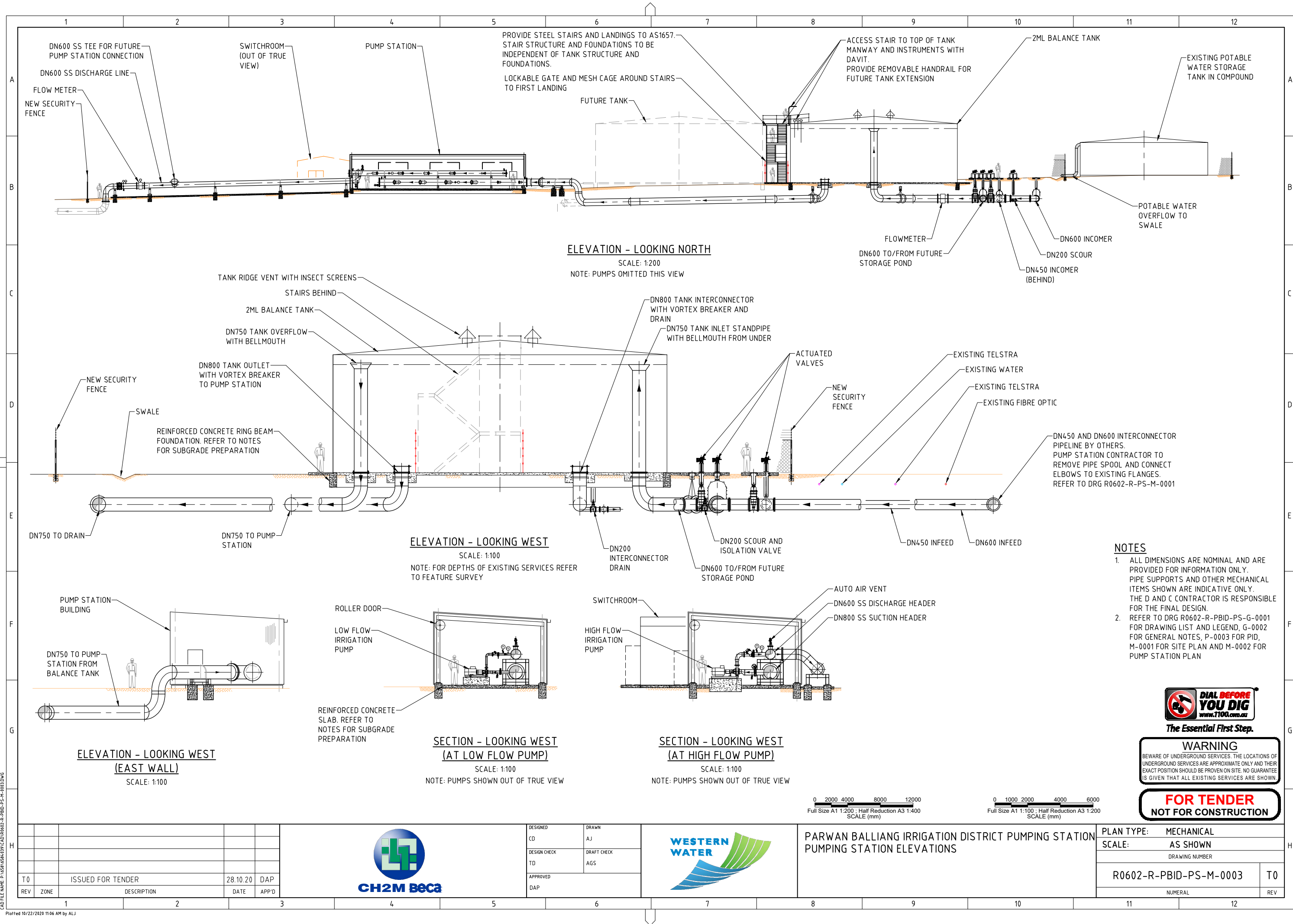
DESIGNED	DRAWN
HL	AJ
DESIGN CHECK	DRAFT CHECK
TD	AGS
APPROVED	
DAP	



PARWAN BALLIANG IRRIGATION DISTRICT PUMPING STATION
PUMPING STATION PLAN

PLAN TYPE: MECHANICAL	
SCALE: 1:50	
DRAWING NUMBER	
R0602-R-PBID-PS-M-0002	T0
NUMERAL	
11	12
REV	

CAD FILE NAME: P:\58\0584\59\CAD\R0602-R-PBID-PS-M-0002.DWG
Plotted 10/22/2020 11:01 AM by ALJ



- NOTES**
- ALL DIMENSIONS ARE NOMINAL AND ARE PROVIDED FOR INFORMATION ONLY. PIPE SUPPORTS AND OTHER MECHANICAL ITEMS SHOWN ARE INDICATIVE ONLY. THE D AND C CONTRACTOR IS RESPONSIBLE FOR THE FINAL DESIGN.
 - REFER TO DRG R0602-R-PBID-PS-G-0001 FOR DRAWING LIST AND LEGEND, G-0002 FOR GENERAL NOTES, P-0003 FOR PID, M-0001 FOR SITE PLAN AND M-0002 FOR PUMP STATION PLAN



WARNING
BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN

FOR TENDER
NOT FOR CONSTRUCTION

0 2000 4000 8000 12000
Full Size A1 1:200 ; Half Reduction A3 1:400
SCALE (mm)

0 1000 2000 4000 6000
Full Size A1 1:100 ; Half Reduction A3 1:200
SCALE (mm)

T0		ISSUED FOR TENDER	28.10.20	DAP
REV	ZONE	DESCRIPTION	DATE	APP'D
1				
2				

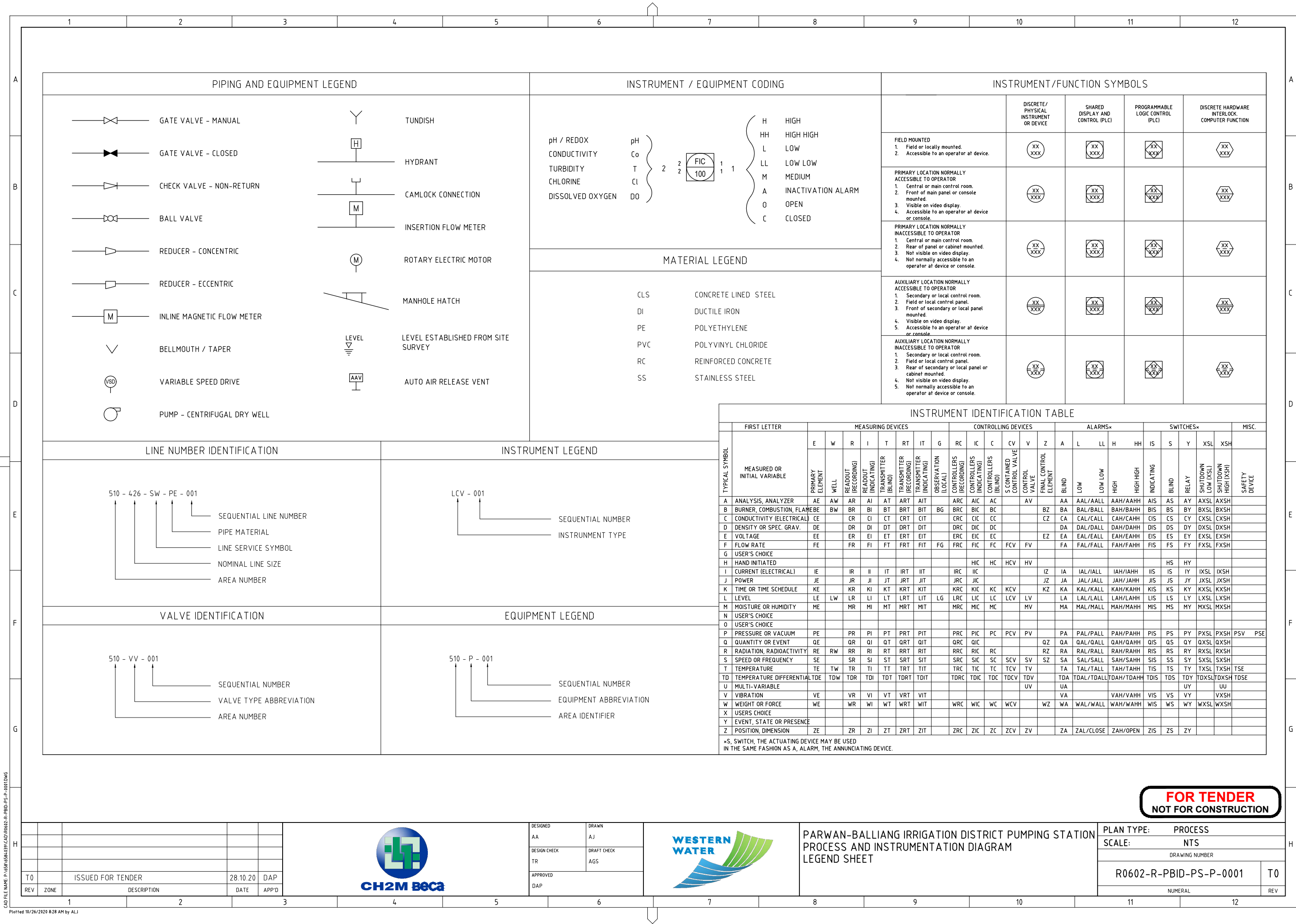


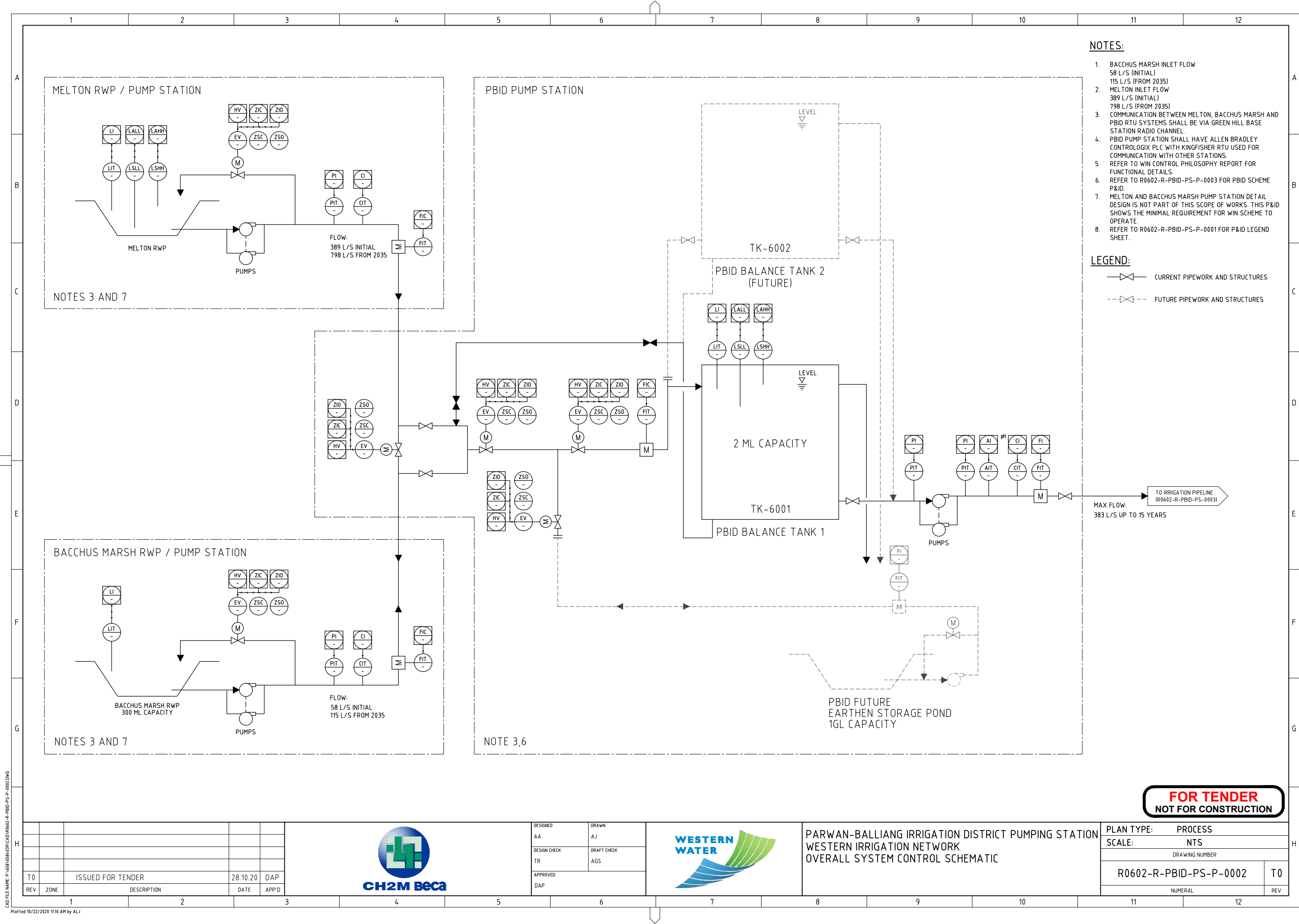
DESIGNED	DRAWN
CD	AJ
DESIGN CHECK	DRAFT CHECK
TD	AGS
APPROVED	
DAP	



PARWAN BALLIANG IRRIGATION DISTRICT PUMPING STATION
PUMPING STATION ELEVATIONS

PLAN TYPE:	MECHANICAL
SCALE:	AS SHOWN
DRAWING NUMBER	
R0602-R-PBID-PS-M-0003	T0
NUMERAL	REV
11	12





CAD FILE NAME: P:\68\684\39\CAD\0602-R-PBID-PS-P-0002.DWG
Plotted 10/22/2020 11:10 AM by ALJ

T0	ISSUED FOR TENDER	28.10.20	DAP
REV	ZONE	DESCRIPTION	DATE
1			
2			
3			



DESIGNED AA	DRAWN AJ
DESIGN CHECK TR	DRAFT CHECK AGS
APPROVED DAP	



PARWAN-BALLIANG IRRIGATION DISTRICT PUMPING STATION
WESTERN IRRIGATION NETWORK
OVERALL SYSTEM CONTROL SCHEMATIC

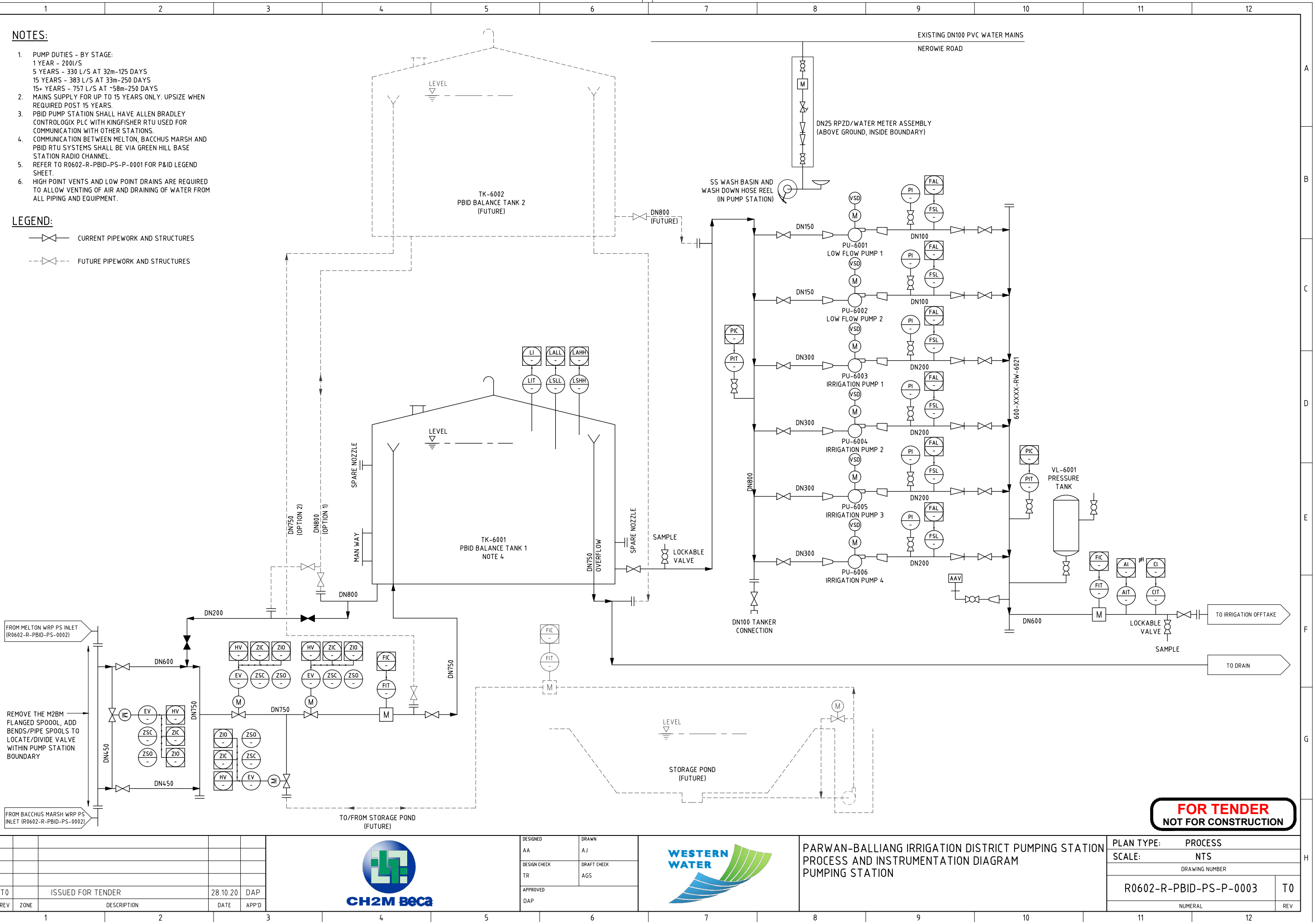
PLAN TYPE:	PROCESS
SCALE:	NTS
DRAWING NUMBER	
R0602-R-PBID-PS-P-0002	T0
NUMERAL	REV
11	12

NOTES:

- PUMP DUTIES - BY STAGE:
1 YEAR - 200l/s
5 YEARS - 330 L/S AT 32m-125 DAYS
15 YEARS - 383 L/S AT 33m-250 DAYS
15+ YEARS - 757 L/S AT ~58m-250 DAYS
- MAINS SUPPLY FOR UP TO 15 YEARS ONLY. UPSIZE WHEN REQUIRED POST 15 YEARS.
- PBID PUMP STATION SHALL HAVE ALLEN BRADLEY CONTROLLOGIX PLC WITH KINGFISHER RTU USED FOR COMMUNICATION WITH OTHER STATIONS.
- COMMUNICATION BETWEEN MELTON, BACCHUS MARSH AND PBID RTU SYSTEMS SHALL BE VIA GREEN HILL BASE STATION RADIO CHANNEL.
- REFER TO R0602-R-PBID-PS-P-0001 FOR P&ID LEGEND SHEET.
- HIGH POINT VENTS AND LOW POINT DRAINS ARE REQUIRED TO ALLOW VENTING OF AIR AND DRAINING OF WATER FROM ALL PIPING AND EQUIPMENT.

LEGEND:

- CURRENT PIPEWORK AND STRUCTURES
- FUTURE PIPEWORK AND STRUCTURES



FOR TENDER
NOT FOR CONSTRUCTION

TO	ISSUED FOR TENDER	28.10.20	DAP
REV	ZONE	DESCRIPTION	DATE
1			
2			
3			

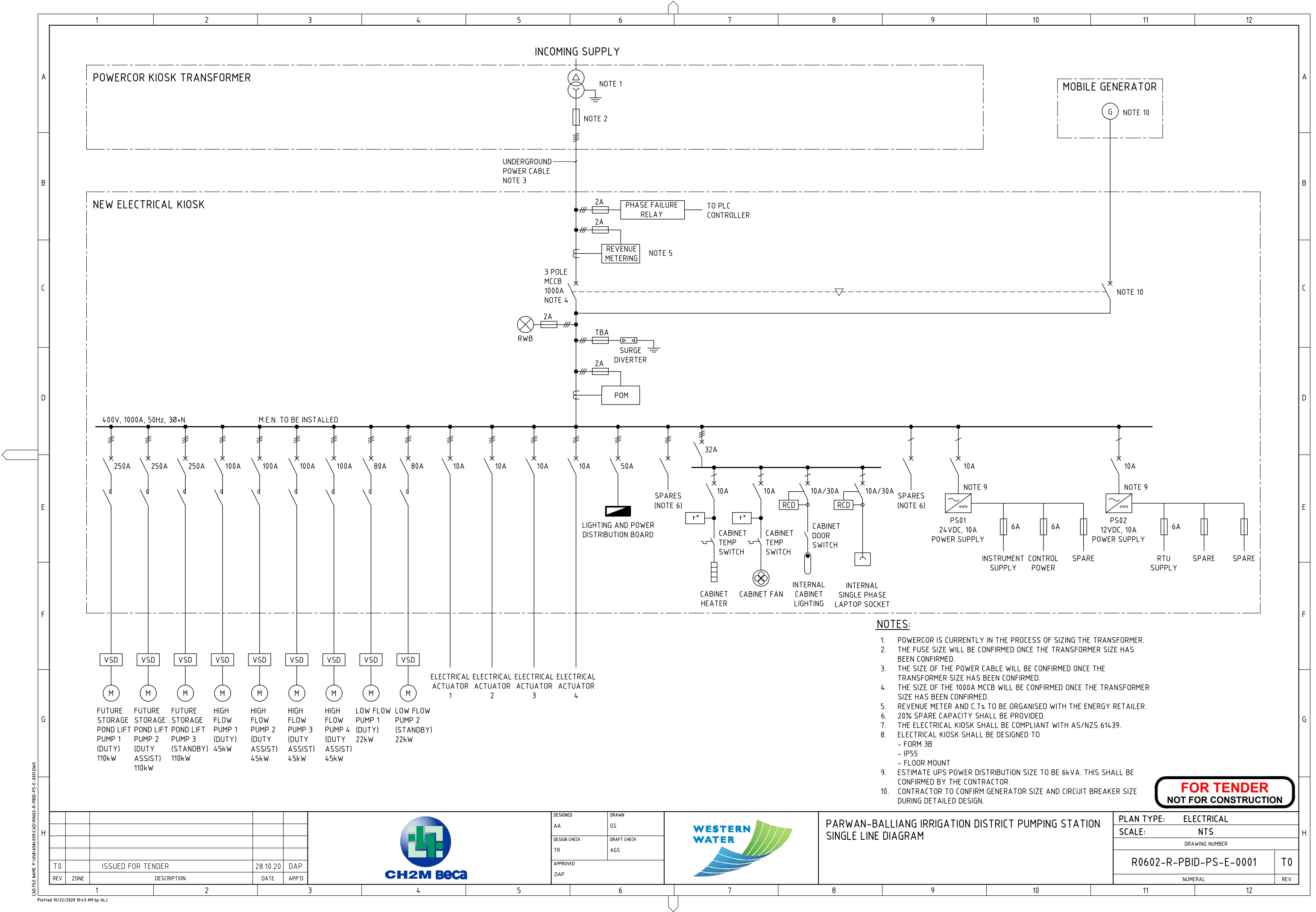


DESIGNED AA	DRAWN AJ
DESIGN CHECK TR	DRAFT CHECK AGS
APPROVED DAP	



PARWAN-BALLIANG IRRIGATION DISTRICT PUMPING STATION
PROCESS AND INSTRUMENTATION DIAGRAM
PUMPING STATION

PLAN TYPE:	PROCESS
SCALE:	NTS
DRAWING NUMBER	
R0602-R-PBID-PS-P-0003	T0
NUMERAL	REV
11	12



NOTES:

1. POWERCOR IS CURRENTLY IN THE PROCESS OF SIZING THE TRANSFORMER.
2. THE FUSE SIZE WILL BE CONFIRMED ONCE THE TRANSFORMER SIZE HAS BEEN CONFIRMED.
3. THE SIZE OF THE POWER CABLE WILL BE CONFIRMED ONCE THE TRANSFORMER SIZE HAS BEEN CONFIRMED.
4. THE SIZE OF THE 1000A MCCB WILL BE CONFIRMED ONCE THE TRANSFORMER SIZE HAS BEEN CONFIRMED.
5. REVENUE METER AND C.T.s TO BE ORGANISED WITH THE ENERGY RETAILER.
6. 20% SPARE CAPACITY SHALL BE PROVIDED.
7. THE ELECTRICAL KIOSK SHALL BE COMPLIANT WITH AS/NZS 61439.
8. ELECTRICAL KIOSK SHALL BE DESIGNED TO
 - FORM 3B
 - IP55
 - FLOOR MOUNT
9. ESTIMATE UPS POWER DISTRIBUTION SIZE TO BE 6kVA. THIS SHALL BE CONFIRMED BY THE CONTRACTOR.
10. CONTRACTOR TO CONFIRM GENERATOR SIZE AND CIRCUIT BREAKER SIZE DURING DETAILED DESIGN.

FOR TENDER
NOT FOR CONSTRUCTION



DESIGNED
AA
DESIGN CHECK
TR
APPROVED
DAP

DRAWN
GS
DRAFT CHECK
AGS



PARWAN-BALLIANG IRRIGATION DISTRICT PUMPING STATION
SINGLE LINE DIAGRAM

PLAN TYPE: ELECTRICAL
SCALE: NTS

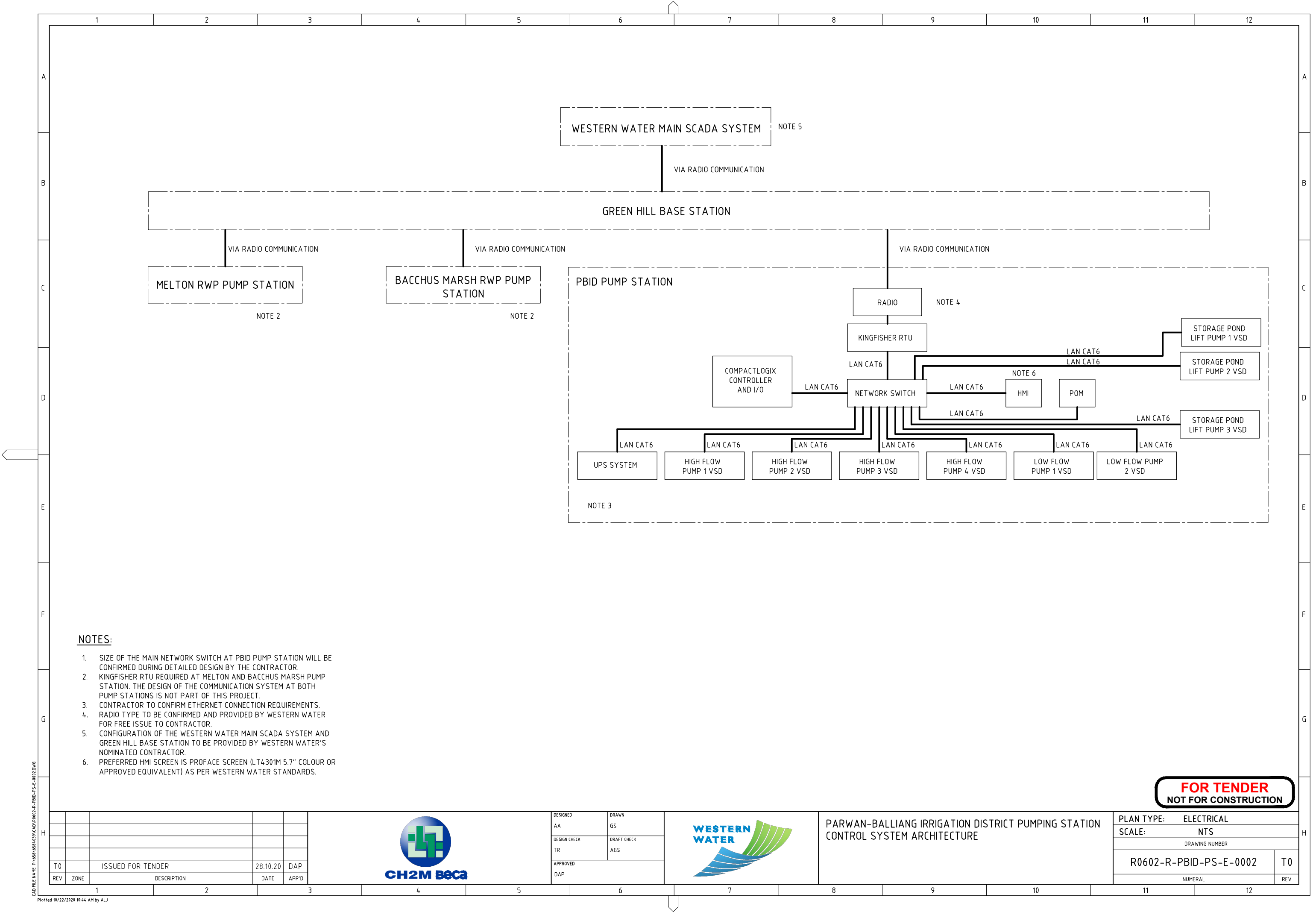
DRAWING NUMBER

R0602-R-PBID-PS-E-0001

T0

NUMERAL

REV



NOTES:

- 1. SIZE OF THE MAIN NETWORK SWITCH AT PBID PUMP STATION WILL BE CONFIRMED DURING DETAILED DESIGN BY THE CONTRACTOR.
- 2. KINGFISHER RTU REQUIRED AT MELTON AND BACCHUS MARSH PUMP STATION. THE DESIGN OF THE COMMUNICATION SYSTEM AT BOTH PUMP STATIONS IS NOT PART OF THIS PROJECT.
- 3. CONTRACTOR TO CONFIRM ETHERNET CONNECTION REQUIREMENTS.
- 4. RADIO TYPE TO BE CONFIRMED AND PROVIDED BY WESTERN WATER FOR FREE ISSUE TO CONTRACTOR.
- 5. CONFIGURATION OF THE WESTERN WATER MAIN SCADA SYSTEM AND GREEN HILL BASE STATION TO BE PROVIDED BY WESTERN WATER'S NOMINATED CONTRACTOR.
- 6. PREFERRED HMI SCREEN IS PROFACE SCREEN (LT4301M 5.7" COLOUR OR APPROVED EQUIVALENT) AS PER WESTERN WATER STANDARDS.

FOR TENDER
NOT FOR CONSTRUCTION

T0		ISSUED FOR TENDER	28.10.20	DAP	
REV	ZONE	DESCRIPTION	DATE	APP'D	



DESIGNED	DRAWN
AA	GS
DESIGN CHECK	DRAFT CHECK
TR	AGS
APPROVED	
DAP	



PARWAN-BALLIANG IRRIGATION DISTRICT PUMPING STATION
CONTROL SYSTEM ARCHITECTURE

PLAN TYPE:	ELECTRICAL
SCALE:	NTS
DRAWING NUMBER	
R0602-R-PBID-PS-E-0002	T0
NUMERAL	REV