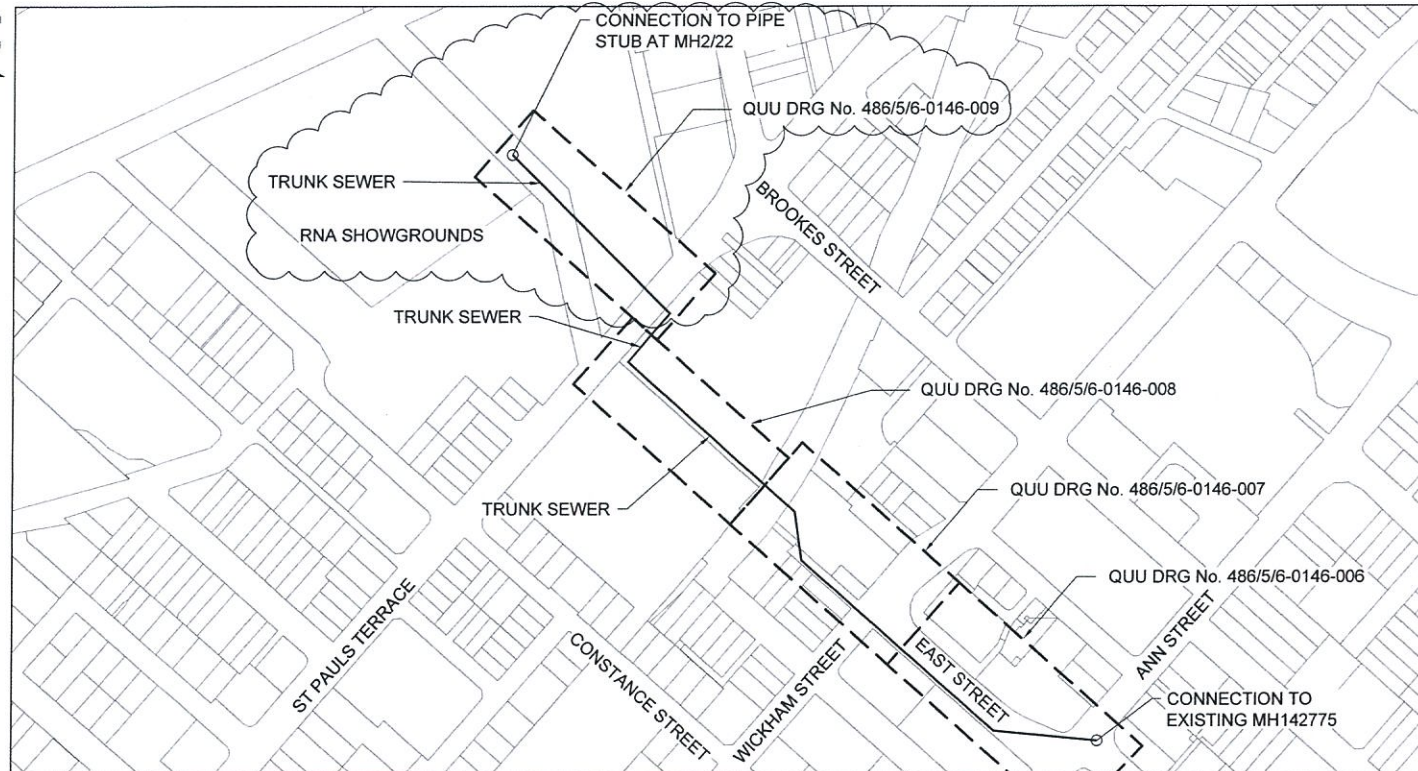


RNA SHOWGROUNDS EXTERNAL SEWER CONNECTION FORTITUDE VALLEY



PLAN
SCALE 1:2500

LEGEND

EXISTING	PROPOSED	ABANDONED	
			GRAVITY SEWER
			ENCASING/ENVELOPER PIPE
			SEWER PROPERTY CONNECTION
			WATER
			STORMWATER DRAINAGE
			DRAINAGE - PROPERTY
			GAS MAIN
			ELECTRICITY U/G
			ELECTRICITY O/H
			TELECOMMUNICATION
			OPTIC FIBRE
			UNIDENTIFIED SERVICE
			OIL PIPELINE
			UNDERGROUND ELECTRICITY/LIGHT POLE
			OVERHEAD ELECTRICITY/POWER POLE
			STORMWATER GULLY
			PIT (TELECOM/ELEC)
			BACK OF KERB
			EDGE OF BITUMEN
			EDGE OF SEAL
			FENCE LINE
			EASEMENT
			Q100 FLOOD LINE
			CONTROL LEVEL
			CONTOUR LABEL
			MAINTENANCE HOLE SEWER
			GEOTECHNICAL BOREHOLE

ABBREVIATIONS

AC	- ASBESTOS CEMENT
CICL	- CAST IRON CEMENT LINED
CISL	- CAST IRON SPUN LINED
CR	- CONCRETE REINFORCED
CTS	- CUT TO SUIT
CUR	- CONCRETE UN-REINFORCED
DI	- DUCTILE IRON
DICL	- DUCTILE IRON CEMENT LINED
DN	- DIAMETER NOMINAL
EW	- EARTHENWARE
FH	- FIRE HYDRANT
MH	- MAINTENANCE HOLE
mPVC	- MODIFIED POLYVINYL CHLORIDE
MSBW	- MILD STEEL BUTT WELD
MSCL	- MILD STEEL CEMENT LINED
PE	- POLYETHYLENE
RTS	- ROTATE TO SUIT
SC	- STOP COCK/WATER METER
uPVC	- UNPLASTICISED POLYVINYL CHLORIDE
VC	- VITRIFIED CLAY
QUU	- QUEENSLAND URBAN UTILITIES

AMENDMENT A

PAKEE BALA DATE 29/01/15
QUEENSLAND URBAN UTILITIES DELEGATE
(VALID FOR 12 MONTHS FROM DATE SHOWN)

ORIGINAL SIGNED BY PAKEE BALA DATE 09/01/2015
QUEENSLAND URBAN UTILITIES DELEGATE
(VALID FOR 12 MONTHS FROM DATE SHOWN)

GOVERNMENT CLIENT PROJECT	
CLIENT:	LEND LEASE
CONTACT:	MITCHELL WILTON 0409 756 314
Q.U.U. AUDITOR:	AUDIT & COMPLIANCE OFFICER QUEENSLAND URBAN UTILITIES TONY FACEY 0412 436 579

AS CONSTRUCTED DETAILS FOR AMEND.	
I CERTIFY THAT THE 'AS CONSTRUCTED' DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS	
SIGNED	DATE:
NAME OF SIGNATORY	
RPEQ No. or LICENCE	
COMPANY NAME	
START DATE	FINISH DATE

CONSTRUCTION INSPECTION
NOTIFICATION OF INSPECTIONS MUST BE RECEIVED BY
QUEENSLAND URBAN UTILITIES AUDIT & COMPLIANCE
OFFICER AT LEAST TWO (2) WEEKS PRIOR
TO COMMENCEMENT OF CONSTRUCTION
PLEASE CONTACT TONY FACEY 0412 436 579



SHEET No. 1 OF 28	AMEND.
QUEENSLAND URBAN UTILITIES DRAWING No.	
486/5/6-0146-001	A

AS CONSTRUCTED RECEIVED	
BY	
UTILITY/DELEGATE	
DATE	
ON MAINTENANCE DETAILS	
START	FINISH
UTILITY/DELEGATE COMMENTS	
FUNDING	
PRIVATE BOOSTER REQUIRED	YES/NO
FUNDED BY: UTILITY () COUNCIL ()	
FED GOV'T () STATE ()	
DEVELOPER () OTHER ()	
OFFICER	/ /
DATE RELEASED	/ /
PLAN CUSTODIAN	
OFFICER/REC'D	/ /
DATE RELEASED	/ /
LIVE CONNECTION(S) / PASSED(W)	
REFERENCE	
DATE	/ /
GIS CAPTURE	
JOB NUMBER	
OFFICER	/ /
DATE	/ /
GIS COMMENTS	

SEWER DISUSED				JOB No.		MH TYPE & No.		
LOCATION	SR No	DIA	TYPE	LENGTH	YEAR LAID	G	F	X

ASSET REGISTER - TRUNK SEWER					
ESTATE/STAGE					
SITE ADDRESS	---				
COUNCIL FILE					
QUU DELEGATE APP. DATE					
CLIENT	LEND LEASE				
JOB REFERENCE No.					
MAINS	DIAMETER	MATERIAL DESIGN	CONST	LENGTH DESIGN	CONST
	00820	GRP		646	
PROPERTY CONNECTIONS	DIAMETER	MATERIAL DESIGN	CONST	LENGTH DESIGN	CONST
MH's	MH TYPE & No.				
	G	F	X	Other	6

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

10 DEC 2015

MEDQ

SURFACE KEY - FOOTPATHS AND DRIVEWAYS

CONCRETE		EXPOSED AGGREGATE		PAVERS	
BITUMEN		STAMPED CONCRETE			

ENGINEERING CERTIFICATION

SIGNED:	DATE: 29.7.15
NAME OF SIGNATORY (PRINT): JIUN I CHAI	
RPEQ NUMBER: 10808	
COMPANY NAME: PARSONS BRINCKERHOFF	

CONSTRUCTION ISSUE

ASSET/PROJECT
RNA SHOWGROUNDS
EXTERNAL SEWER CONNECTION

DRAWING TITLE
COVER SHEET
LOCALITY PLAN AND LEGEND

DATE	AMENDMENT	DRAFTED	DESIGNED	RPEQ NO.	APPROVED	Q.U.U. FILE No.
A 29.07.15	REVISED SCOPE OF WORKS	MN	JC			2103474E-SEW-0001

A QUU NETWORK ACCESS PERMIT MUST BE OBTAINED FROM THE QUU NETWORK ACCESS TEAM PRIOR TO THE COMMENCEMENT OF WORK ON-SITE. FOR FURTHER INFORMATION PLEASE CONTACT QUU NETWORK ACCESS TEAM ON PH: 3856 7033 OR EMAIL: NETWORKACCESS@URBANUTILITIES.COM.AU

DRAWING INDEX

QUU DRAWING No.	REV	TITLE /DESCRIPTION
486/5/6-0146-001	A	COVER SHEET, LOCALITY PLAN AND LEGEND
486/5/6-0146-002	A	DRAWING INDEX
486/5/6-0146-003	A	GENERAL NOTES - SHEET 1
486/5/6-0146-004	A	GENERAL NOTES - SHEET 2
486/5/6-0146-005	A	STRUCTURAL NOTES
486/5/6-0146-006	A	GENERAL ARRANGEMENT PLAN - SHEET 1
486/5/6-0146-007	A	GENERAL ARRANGEMENT PLAN - SHEET 2
486/5/6-0146-008	A	GENERAL ARRANGEMENT PLAN - SHEET 3
486/5/6-0146-009	A	GENERAL ARRANGEMENT PLAN - SHEET 4
486/5/6-0146-010	A	LONGITUDINAL SECTION - SHEET 1
486/5/6-0146-011	A	LONGITUDINAL SECTION - SHEET 2
486/5/6-0146-012	A	LONGITUDINAL SECTION - SHEET 3
486/5/6-0146-013	A	LONGITUDINAL SECTION - SHEET 4
486/5/6-0146-014	A	LONGITUDINAL SECTION - SHEET 5
486/5/6-0146-015	A	LONGITUDINAL SECTION - SHEET 6
486/5/6-0146-016	A	CONNECTION AT EXISTING MAINTENANCE HOLE MH142775 - SITE PLAN
486/5/6-0146-017	A	CONNECTION AT EXISTING MAINTENANCE HOLE MH142775 - GENERAL ARRANGEMENT
486/5/6-0146-018	A	CONNECTION AT EXISTING MAINTENANCE HOLE MH142775 - DETAILS - SHEET 1
486/5/6-0146-019	A	CONNECTION AT EXISTING MAINTENANCE HOLE MH142775 - DETAILS - SHEET 2
486/5/6-0146-020	A	CONNECTION AT EXISTING MAINTENANCE HOLE MH142775 - DETAILS - SHEET 3
486/5/6-0146-021	A	MAINTENANCE HOLES 1/1, 2/1, 3/1, 4/1, 5/1, AND 6/1 - DETAILS - SHEET 1
486/5/6-0146-022	A	MAINTENANCE HOLES 1/1, 2/1, 3/1, 4/1, 5/1, AND 6/1 - DETAILS - SHEET 2
486/5/6-0146-023	O	MAINTENANCE HOLES 1/1, 2/1, 3/1, 4/1, 5/1, AND 6/1 - DETAILS - SHEET 3
486/5/6-0146-024	O	MAINTENANCE HOLES 1/1, 2/1, 3/1, 4/1, 5/1, AND 6/1 - STRUCTURAL DETAILS
486/5/6-0146-025	O	CONNECTION AT EXISTING MH 2/22 - IN ALEXANDRIA ST - STUB CONNECTION DETAILS
486/5/6-0146-026	P1	LIVE SEWER TABLE
486/5/6-0146-027	O	RAILWAY CROSSING - PLAN AND LONGITUDINAL SECTION
486/5/6-0146-028	O	RAILWAY CROSSING - DETAILS

REFERENCE DRAWINGS

SEQ STD DRG NUMBER	TITLE /DESCRIPTION
SEQ-SEW-1201-1	TYPICAL STANDARD EMBEDMENT, FLEXIBLE * RIGID PIPES
SEQ-SEW-1301-1	CAST IN-SITU MAINTENANCE HOLE - TYPICAL COPING & ANCHOR BRACKET DETAILS
SEQ-SEW-1301-8	"X" TYPE - DEEP MAINTENANCE HOLE - TYPICAL ARRANGEMENT - SEWER $\leq$ Ø600 WITH DROP PIPE
SEQ-SEW-1301-10	"X" TYPE - DEEP MAINTENANCE HOLE - TYPICAL JUNCTION DETAILS
SEQ-SEW-1301-12	TYPICAL M.S. AND S.S LADDER AND ASSOCIATED FITTINGS
SEQ-SEW-1301-6*	"X" TYPE - DEEP MAINTENANCE HOLE - TYPICAL ARRANGEMENT - SEWER $\leq$ Ø1200
SEQ-SEW-1301-9*	"X" TYPE - DEEP MAINTENANCE HOLE - TYPICAL ARRANGEMENT - SEWER Ø675 TO Ø900 WITH DROP PIPE - AND SAFETY CHAIN
SEQ-SEW-1308-8	MAINTENANCE HOLE COVER - SEWER - CLASS D - BOLT DOWN - TYPICAL BASE FRAME DETAILS
SEQ-SEW-1308-9	MAINTENANCE HOLE COVER - SEWER - CLASS D - BOLT DOWN - TYPICAL RING RISER DETAILS
SEQ-SEW-1308-10	MAINTENANCE HOLE COVER - SEWER - CLASS D - BOLT DOWN - TYPICAL COVER DETAILS
SEQ-SEW-1308-11	MAINTENANCE HOLE COVER - SEWER - CLASS D - BOLT DOWN - TYPICAL COVER DETAILS
SEQ-SEW-1401-1	TYPICAL BURIED CROSSINGS - RAILWAYS
SEQ-SEW-1403-1	TYPICAL BURIED CROSSINGS - BORED AND JACKED ENCASED PIPE DETAILS
SEQ-SPS-1305-4	FABRICATED METALWORK
SEQ-SPS-1407-1	POLYETHYLENE LINING - TOP SLAB AND WALL - TYPICAL DETAILS
SEQ-SPS-1407-2	POLYETHYLENE LINING - WALL PIPE PENETRATIONS - TYPICAL DETAILS

* FOR SS SAFETY CHAIN & OTHER DETAILS

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

10 DEC 2015

MEDQ

AMENDMENT A

PAKEE BALA  DATE 29/07/15
QUEENSLAND URBAN UTILITIES DELEGATE
(VALID FOR 12 MONTHS FROM DATE SHOWN)ORIGINAL SIGNED BY PAKEE BALA DATE 09/01/2015
QUEENSLAND URBAN UTILITIES DELEGATE
(VALID FOR 12 MONTHS FROM DATE SHOWN)

GOVERNMENT CLIENT PROJECT

CLIENT: LEND LEASE
CONTACT: MITCHELL WILTON 0409 756 314
Q.U.U. AUDITOR: AUDIT & COMPLIANCE OFFICER
QUEENSLAND URBAN UTILITIES
CONTACT: TONY FACEY 0412 436 579

AS CONSTRUCTED DETAILS FOR AMEND.

I CERTIFY THAT THE "AS CONSTRUCTED" DETAILS
SHOWN ON THIS PLAN ARE TRUE AND ACCURATE
RECORD OF THE WORKSSIGNED: _____ DATE: _____
NAME OF SIGNATORY
RPEQ No. or LICENCE
COMPANY NAME
START DATE _____ FINISH DATE _____CONSTRUCTION INSPECTION:
NOTIFICATION OF INSPECTIONS MUST BE RECEIVED BY
QUEENSLAND URBAN UTILITIES AUDIT & COMPLIANCE
OFFICER AT LEAST TWO (2) WEEKS PRIOR
TO COMMENCEMENT OF CONSTRUCTION
PLEASE CONTACT TONY FACEY 0412 436 579 QUEENSLAND
UrbanUtilitiesSHEET No. 2 OF 28
QUEENSLAND URBAN UTILITIES DRAWING No. AMEND.
486/5/6-0146-002 A

ENGINEERING CERTIFICATION

SIGNED:  DATE: 29.7.15
NAME OF SIGNATORY (PRINT): JUN I CHAI
RPEQ NUMBER: 10808
COMPANY NAME: PARSONS BRINCKERHOFF

CONSTRUCTION ISSUE

ASSET/PROJECT
RNA SHOWGROUNDS
EXTERNAL SEWER CONNECTIONDRAWING TITLE
DRAWING INDEXDRAFTED MN
DRAFTING CHECK CG
CAD FILE 2103474E-SEW-0002
Q.U.U. FILE No.A QUU NETWORK ACCESS PERMIT MUST BE OBTAINED FROM THE QUU
NETWORK ACCESS TEAM PRIOR TO THE COMMENCEMENT OF WORK
ON-SITE. FOR FURTHER INFORMATION PLEASE CONTACT QUU
NETWORK ACCESS TEAM ON PH: 3856 7033 OR
EMAIL: NETWORKACCESS@URBANUTILITIES.COM.AU

No.	DATE	AMENDMENT	DRAFTED	DESIGNED	RPEQ No.	APPROVED
A	29.07.15	REVISED DRAWING INDEX	MN	JC		

Plotted By: NardellaH Plot Date: 29/07/15 - 09:54 Cal File: \\A:\p08\103\proj\1\1\end Lease_Developments\2024\14E-RNA_THUNK_SEWER_VARIATION\09_CADD Drawings\1E Job Drawings\203474E-SEW-0003.dwg

QUU GENERAL NOTES:

- G1. WORKS MUST BE EXECUTED IN ACCORDANCE WITH THE SEQ WATER SUPPLY AND SEWERAGE DESIGN & CONSTRUCTION CODE (2013) STANDARDS, SPECIFICATIONS AND QUU AMENDMENTS.
- G2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- G3. RESPONSIBILITY FOR DESIGN CERTIFICATION, ADHERENCE TO AND COMPLIANCE WITH ALL RELEVANT STANDARDS/CODES AND SPECIFICATIONS RESIDES WITH THE REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ) WHOSE SIGNATURE AND RPEQ NUMBER APPEAR IN THE ENGINEERING CERTIFICATION BOX ON EACH ORIGINAL DRAWING.
- G4. THE CONSTRUCTION OF THE SEWERAGE WORK MUST BE SUPERVISED BY AN ENGINEER WHO HAS RELEVANT RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO QUEENSLAND URBAN UTILITIES'S SEWER SYSTEM.
- G5. DURING PRE-CONSTRUCTION, CONSTRUCTION, AND COMMISSIONING (UNTIL THE END OF THE DEFECTS LIABILITY PERIOD), ANY DESIGN OVERSIGHTS AND / OR ITEMS THAT ARE TECHNICALLY NOT CONFORMING WITH RELEVANT STANDARDS, MUST BE RECTIFIED, AT NO COST TO QUU.
- G6. CORRECT PROCEDURES MUST BE FOLLOWED FOR THE CREATION AND PROVISION OF 'AS CONSTRUCTED' INFORMATION, INCLUDING APPROPRIATE RPEQ CERTIFICATION IN EACH 'AS CONSTRUCTED' DRAWING BY THE RPEQ WHO SUPERVISED THE WORKS BEING CONSTRUCTED.
- G7. ALL WORKS ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY A QUU PROVIDER AT THE CLIENT'S COST.
- G8. ALL PIPES AND MATERIALS SHALL COMPLY WITH REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
- G9. ONLY QUU PERSONNEL OR QUU PROVIDERS MUST OPERATE THE EXISTING SEWER NETWORK.
- G10. AUDIT AND FINAL INSPECTIONS OF WORK CONSTRUCTED BY CONTRACTORS MUST BE ARRANGED TWO WEEKS BEFOREHAND WITH THE QUU AUDIT AND COMPLIANCE OFFICER (CONTACT DETAILS BELOW).
- G11. ALL NEW WORKS REQUIRE CCTV SURVEYS AND VACUUM TESTING PRIOR TO ACCEPTANCE. CCTV INSPECTIONS TO BE IN WINCAN 8 FORMAT.
- G12. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST QUEENSLAND WORKPLACE HEALTH AND SAFETY ACT. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION. PHONE: 1300 369 915
- G13. SERVICES WHERE SHOWN ARE APPROXIMATE ONLY. EXACT LOCATION AND DEPTH TO SERVICES ARE TO BE CONFIRMED WITH RELEVANT AUTHORITIES AND ON SITE BY THE CONTRACTOR PRIOR TO COMMENCING WORKS.
- G14. HANDLING OF ASBESTOS CEMENT PIPES SHALL BE CARRIED OUT IN ACCORDANCE WITH WORKPLACE HEALTH AND SAFETY (WH&S) ACT 2011, THE WH&S QUEENSLAND CODE OF PRACTICE AND QUU SWMS 10 AS A MINIMUM.
- G15. OTHER AUTHORITIES' UNDERGROUND SERVICES ARE SHOWN APPROXIMATELY AS TAKEN OFF DIAL BEFORE YOU DIG INFORMATION. EXTREME CAUTION MUST BE EXERCISED WHEN WORKING IN THE VICINITY OF AND AROUND THESE SERVICES. DUE TO THE TIME FRAME BETWEEN DESIGN AND CONSTRUCTION IT IS NECESSARY THAT THE CONTRACTOR CONFIRM THE LOCATION OF OTHER AUTHORITIES' UNDERGROUND SERVICES.
- G16. CONTRACTOR TO TAKE APPROPRIATE ACTION TO PROTECT AND MAINTAIN QUU'S AND OTHER AUTHORITIES' EXISTING SERVICES.
- G17. IN THE EVENT OF A BREAKAGE OR ANY OTHER EMERGENCY RELATING TO A QUU ASSET PHONE 13 23 64 IMMEDIATELY.
- G18. WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT SEQ SEWER CODE.
- G19. RESTORE ALL SURFACES TO MATCH PRE-EXISTING SURFACES UNLESS NOTED OTHERWISE.
- G20. REMOVE AND REINSTATE OBJECTS ALONG LINE OF CONSTRUCTION SUCH AS SIGNS, FENCES ETC. CONTRACTOR SHALL OBTAIN APPROVAL BEFORE REMOVAL OF ANY STRUCTURE.
- G21. BENCH MARK AND LEVELS TO AHD.
- G22. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

GENERAL NOTES:

- GN1. ALL DRAWINGS UNDER THIS CONTRACT SHALL BE READ IN CONJUNCTION WITH THE PROJECT SUPPLY AND CONSTRUCTION SPECIFICATION.
- GN2. DATUM - ALL LEVELS SHOWN ON THE DRAWINGS ARE A.H.D.
- GN3. SITE ACCESS - THE CONTRACTOR WILL GAIN ACCESS TO THE SITE AT LOCATIONS APPROVED BY THE PRINCIPAL. FREE ACCESS TO OTHER WORK AREAS AROUND THE SITE SHALL BE MAINTAINED AT ALL TIMES.
- GN4. PROVISION FOR TRAFFIC - PROVISION FOR TRAFFIC ON LOCAL ROADS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND BRISBANE CITY COUNCIL REQUIREMENTS AND TRAFFIC MANAGEMENT PLAN.

GENERAL NOTES (CONT'D):

- GN5. SITE CLEARING - THE CONTRACTOR SHALL CARRY OUT CLEARING AND GRUBBING TO ALL AREAS AS SPECIFIED. THIS SHALL INCLUDE THE REMOVAL OF EXISTING VEGETATION EXCEPT FLORA NOMINATED FOR PRESERVATION.
- GN6. TESTING - ALL TESTING SHALL BE CARRIED OUT BY A 3rd PARTY N.A.T.A. APPROVED TESTER IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- GN7. FOOTPATH & KERB - THE EXISTING FOOTPATH PROFILE SHALL BE MAINTAINED WHERE PRACTICABLE. THE NEW KERB SHALL TRANSITION SMOOTHLY WITH EXISTING KERB.
- GN8. ALL DIMENSIONS GIVEN ARE NOMINAL ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION. CONSTRUCTION DRAWINGS SHALL NOT BE SCALED.
- GN9. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH THE WORKS.
- GN10. NO SUBSTITUTE MATERIALS SHALL BE USED WITHOUT THE WRITTEN APPROVAL OF THE SUPERINTENDENT.
- GN11. THE CONTRACTOR SHALL TAKE APPROPRIATE ACTION TO PROTECT AND MAINTAIN QUU'S & AND OTHER AUTHORITIES' EXISTING SERVICES.
- GN12. AUDIT AND FINAL INSPECTIONS OF WORK CONSTRUCTED BY THE CONTRACTOR MUST BE ARRANGED TWO WEEKS BEFOREHAND WITH THE SUPERINTENDENT.

EXCAVATION AND BACKFILLING NOTES:

- E1. PRIOR TO COMMENCEMENT OF CLEARING AND EXCAVATION, THE CONTRACTOR SHALL MAKE ALL ENQUIRIES AND INVESTIGATIONS FOR THE PROTECTION OF PUBLIC AND PRIVATE PROPERTY INCLUDING SERVICES FROM DAMAGE. THE CONTRACTOR SHALL CONSTRUCT ALL TEMPORARY ARRANGEMENTS AS REQUIRED.
- E2. TOP SOIL STRIPPING - ALL TOPSOIL STRIPPED FROM WORK AREAS SHALL BE STOCKPILED FOR LATER RESPREADING TO AREAS FOR REVEGETATION. AREAS TO BE TOPSOILED TO A MINIMUM DEPTH OF 100mm AND REVEGETATED AS DETAILED IN THE DRAWINGS AND SPECIFICATIONS.
- E3. ALL EXCAVATION, BACKFILLING AND COMPACTION SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH AS 3798.
- E4. CLEARING AND DISTURBING OF VEGETATION SHALL BE KEPT TO A MINIMUM AND SHALL BE LIMITED TO AREAS CONTAINING THE EXCAVATIONS FOR THE CONSTRUCTION OF THE REQUIRED WORKS.
- E5. ALL EXCAVATIONS SHALL BE MADE SECURE AGAINST MOVEMENT BY MEANS OF STABLE BATTERS, SHEET PILING, TRENCH BOX OR ANY OTHER SUITABLE SYSTEM.
- E6. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY PROTECTION AND ADEQUATE SITE FENCING TO EXCLUDE ALL UNAUTHORISED PERSONS AND ANIMALS FROM THE WORK SITE DURING THE CONSTRUCTION PERIOD.
- E7. ALL EXCAVATIONS SHALL BE COMPLETELY DRAINED AT ALL TIMES BY TEMPORARY DRAINS OR PUMPING WHEN NECESSARY.
- E8. BACKFILLING SHALL BE CARRIED OUT USING MATERIALS SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS.
- E9. UNLESS NOTED OTHERWISE - BACKFILL SHALL BE COMPACTED IN 150mm THICK FINISHED LAYERS, CONDITIONED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- E10. ALL FILL MATERIAL PLACED SHALL BE COMPACTED AND TRIMMED TO FINAL EARTHWORKS LEVELS AND PROFILES SHOWN ON THE CONTRACT DRAWINGS AND TESTED IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
- E11. RESTORE ALL SURFACES TO MATCH EXISTING SURFACES AS PER CLAUSE 2.29 OF THE SUPPLY AND CONSTRUCTION SPECIFICATION.

SURVEY AND SERVICES NOTES:

- S1. COORDINATES ARE PSEUDO MGA BASED ON PM131345. TO CONVERT TO TRUE MGA, ALL DATA MUST BE SCALED BY 0.99961111 AT PM1313345 (EAST 503524.952, NORTH 6963537.033 RL:14.765)
- S2. MERIDIAN IS MGA ZONE 56.
- S3. VERTICAL DATUM IS OPM 131345, AT RL14.765
- S4. PROPERTY BOUNDARIES HAVE BEEN COMPILED FROM RP PLANS AND CONNECTIONS TO SOME SURVEY MARKS ON THOSE PLANS ONLY.
- S5. EXISTING SURVEY CONTROL STATIONS - THE CONTRACTOR SHALL ENSURE THAT SURVEY CONTROL STATIONS ARE NOT DAMAGED OR DISTURBED IN ANY WAY BY CONSTRUCTION ACTIVITIES.
- S6. THE POSITIONS OF SERVICES BELIEVED TO EXIST ON THE SITE ARE INDICATED. NO GUARANTEE IS GIVEN OR IMPLIED ON THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION. THE CONTRACTOR SHALL MAKE HIMSELF FULLY CONVERSANT WITH ALL EXISTING SERVICES AND STRUCTURES WITHIN AND ADJACENT TO THE SITE OF THE WORK AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THESE SERVICES AND STRUCTURES DURING THE COURSE OF THE CONTRACT.
- S7. IN THE EVENT OF SERVICES DEVIATING FROM LOCATIONS OR PRESENT BUT NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL GIVE NOTICE 3 DAYS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY THAT MAY AFFECT THE SERVICE.
- S8. THE CONTRACTOR SHALL CONFIRM ALL INVERT LEVELS AND SIZES OF EXISTING MAINTENANCE HOLES AND SEWER MAINS AFFECTED BY THE NEW WORKS AND SUBMIT TO THE PRINCIPAL FOR PRIOR APPROVAL BEFORE COMMENCING CONSTRUCTION.
- S9. THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE SUPERINTENDENT FOR ANY DEVIATIONS REQUIRED TO AVOID EXISTING SERVICES.
- S10. THE CONTRACTOR SHALL UNDERTAKE AS CONSTRUCTED SURVEY OF THE POSITION OF START AND END AND INVERT LEVELS OF THE MILD STEEL ENVELOPER PIPE AND GRP CARRIER PIPE AT THE RAILWAY CROSSING.

PIPELINE NOTES:

- P1. THE MINIMUM CLEARANCE TO EXISTING SERVICES IS TO BE IN ACCORDANCE WITH THE SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE (2013) UNLESS OTHERWISE SHOWN
- P2. CONTRACTOR TO OBTAIN PRIOR APPROVAL OF QUU AUDIT AND COMPLIANCE OFFICER FOR ANY MINOR DEVIATIONS REQUIRED TO AVOID EXISTING SERVICES.
- P3. VACUUM TESTING & CCTV TO BE CARRIED OUT IN ACCORDANCE WITH THE SEQ W&S D&C CODE (2013).
- P4. NON-METALLIC PIPES SHALL HAVE DETECTABLE MARKER TAPE INSTALLED. REFER TO QUU STANDARDS. THE COLOURS OF THE MARKERS MUST BE: SEWERAGE - CREAM.
- P5. PIPELINES SHALL NOT BE CONSTRUCTED IN UNCONTROLLED FILL. CERTIFICATES SHALL BE LODGED WITH THE SUPERINTENDENT AND THE QUU AUDIT & COMPLIANCE OFFICER CERTIFYING THE FILL IS CONTROLLED FILL COMPACTED TO A DENSITY, IN ACCORDANCE WITH AS1289.5.1.1.
- P6. ALL OPEN ENDS OF DISUSED SEWERS MUST BE EFFECTIVELY PLUGGED BY QUU OR QUU PROVIDER.
- P7. TUNNEL BORE OR DIRECTIONAL DRILL UNDER EXISTING STAMPED OR REINFORCED CONCRETE DRIVEWAYS WHERE EXISTING SURFACE CANNOT BE MATCHED, AND UNDER SIGNIFICANT TREES AS ADVISED BY LOCAL COUNCIL.
- P8. PIPE EMBEDMENT MATERIAL SHALL BE:
5 TO 7MM SINGLE SIZED MATERIAL THAT COMPLIES WITH THE PURCHASE SPECIFICATION FOR EMBEDMENT MATERIALS AS NOMINATED BY QUU IN THE SEQ ACCEPTED PRODUCTS & MATERIALS LIST.
- P9. DISUSED SEWERS AND MAINTENANCE HOLES SHALL COMPLY WITH REQUIREMENTS SET OUT IN SEQ CODE AND PROJECT DRAWINGS. TREATMENT OF DISUSED MAINTENANCE HOLES IS DEPENDENT ON LOCATION.

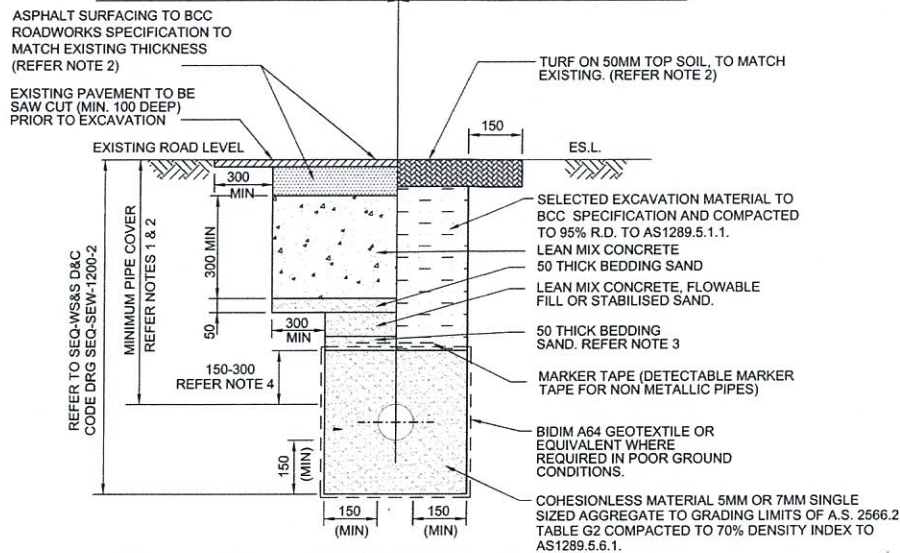
GRP PIPE NOTES:

- GR1. ALL GRP PIPES AND JOINT MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE GRP JACKING PIPE STANDARD ISO25780.
- GR2. THE CONTRACTOR SHALL SUPPLY MANUFACTURER'S CERTIFICATION THAT PIPE DEFLECTIONS SHALL NOT EXCEED THE LIMITS SHOWN IN THE SEQ CODE.
- GR3. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NOMINATED PIPE CAN WITHSTAND ALL INSTALLATION AND INSITU LOADINGS, AND OBTAIN WRITTEN CONFIRMATION FROM PIPE MANUFACTURER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT CONSTRUCTION METHODOLOGY DOES NOT IMPOSE LOADS WHICH EXCEED THE MANUFACTURER'S ACCEPTABLE LOAD LIMITS
- GR4. TYPE FS STAINLESS STEEL COUPLING SHALL BE USED FOR ALL GRP JACKING PIPES.

POLYETHYLENE PIPE NOTES:

- PE1 PE IS THE PREFERRED MATERIAL OF CHOICE OF QUU AND SHOULD BE USED UNLESS OTHERWISE STATED. ALL PE PIPES AND FITTINGS SHALL BE MATERIAL GRADE PE100.
- PE2 GRAVITY SEWERS TO BE A MINIMUM CLASS PN8. WHERE PIPE CLASSIFICATION IS NOT SPECIFIED CONSULT WITH DESIGN CONSULTANT AND QUU.
- PE3 PE SEWERS WITH SECONDARY PROTECTION (I.E. ENVELOPED OR CONCRETE ENCASED) TO BE A MINIMUM CLASS OF PN12.5.
- PE4 PE PIPE COLOUR SHALL BE:
GRAVITY SEWERS: EXTERNAL: LIGHT GREY - (SOLID OR STRIPED IS ACCEPTABLE) INTERNAL: WHITE OR LIGHT COLOURED (COMPULSORY)
- PE5 ALL PE PIPES TO BE BUTT WELDED/ELECTRO FUSION FUSED UNLESS NOTED OTHERWISE.
- PE6 PRE-CHLORINATED PIPES AND FITTINGS MUST BE USED WHERE INDICATED.
- PE7 PE PIPES WITH CRACKS, SCORES OR SCRATCHES DEEPER THAN 10% OF THE WALL THICKNESS SHALL BE REJECTED.

ROADWAY (TYPICAL) FOOTPATH (TYPICAL)



TYPE 1 - TYPICAL TRENCH DETAIL FOR BCC ROADS

NOT TO SCALE

TRENCH NOTES (TYPE 1)

- MINIMUM COVER TO MAINS FROM PERMANENT LEVEL SHALL BE THE GREATER OF SEQ WS&S D&C CODE DRG SEQ-WAT-1200-2 OR BCC STANDARD DRG UMS 281 & UMS 282.
- ROAD CROSSING, VERGES AND PATHS TRENCH RESTORATION SHALL BE IN ACCORDANCE WITH BCC STANDARD DRG BSD-2042 & BSD-2043.
- PROVIDE 50 THICK LAYER OF BEDDING SAND IF FLOWABLE FILL CONCRETE OR OTHER LOW PERMEABLE FILL IS USED AS EMBEDMENT.
- 150 MINIMUM OVERLAY FOR NON TRAFFICABLE AND 300 MINIMUM FOR TRAFFICABLE.

AMENDMENT A

PAKEE BALA DATE 29/07/15
QUEENSLAND URBAN UTILITIES DELEGATE
(VALID FOR 12 MONTHS FROM DATE SHOWN)

ORIGINAL SIGNED BY PAKEE BALA DATE 09/01/2015
QUEENSLAND URBAN UTILITIES DELEGATE
(VALID FOR 12 MONTHS FROM DATE SHOWN)

GOVERNMENT CLIENT PROJECT

CLIENT: LEND LEASE
CONTACT: MITCHELL WILTON 0409 756 314
O.U.U. AUDITOR: AUDIT & COMPLIANCE OFFICER
QUEENSLAND URBAN UTILITIES
CONTACT: TONY FACEY 0412 436 579

AS CONSTRUCTED DETAILS FOR AMEND.

I CERTIFY THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS

SIGNED: _____ DATE: _____
NAME OF SIGNATORY
RPEQ No. or LICENCE
COMPANY NAME
START DATE _____ FINISH DATE _____

CONSTRUCTION INSPECTION:
NOTIFICATION OF INSPECTIONS MUST BE RECEIVED BY QUEENSLAND URBAN UTILITIES AUDIT & COMPLIANCE OFFICER AT LEAST TWO (2) WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION
PLEASE CONTACT TONY FACEY 0412 436 579

SHEET No. 3 OF 28
QUEENSLAND URBAN UTILITIES DRAWING No. AMEND.
486/5/6-0146-003 **A**

ENGINEERING CERTIFICATION

SIGNED: DATE: 29.7.15
NAME OF SIGNATORY (PRINT): JUN LI CHAI
RPEQ NUMBER: 10808
COMPANY NAME: PARSONS BRINCKERHOFF

CONSTRUCTION ISSUE

ASSET/PROJECT
RNA SHOWGROUNDS
EXTERNAL SEWER CONNECTION

DRAWING TITLE
GENERAL NOTES
SHEET 1

DRAFTED: MN
DRAFTING CHECK: CG
CAD FILE: 2103474E-SEW-0003
O.U.U. FILE No.

29.07.15 NOTES AMENDED MN JC
No. DATE AMENDMENT DRAFTED DESIGNED RPEQ No. APPROVED

A QUU NETWORK ACCESS PERMIT MUST BE OBTAINED FROM THE QUU NETWORK ACCESS TEAM PRIOR TO THE COMMENCEMENT OF WORK ON-SITE. FOR FURTHER INFORMATION PLEASE CONTACT QUU NETWORK ACCESS TEAM ON PH: 3856 7033 OR EMAIL: NETWORKACCESS@URBANUTILITIES.COM.AU

Plotted By: Nardellah Plot Date: 29/07/15 - 09:55 Cad File: \\nabnet\03\proj\1\Lease_Developments\103474E_SEW-0004.dwg

PE WELDING NOTES

- PW1. PE WELDING MUST ONLY BE CARRIED OUT BY CERTIFIED PERSONS:
- (A) IN ACCORDANCE WITH PARTEC REQUIREMENTS AND (B) WHO HAS SUCCESSFULLY CARRIED OUT PREVIOUS PE PRESSURE PIPELINE WELDING PROJECTS.
- PW2. FUSION BUTT-WELDED JOINTS SHALL BE MADE IN ACCORDANCE WITH WSA 01 - 2004; AS2033, AS2566.2 AND THE PE PIPE MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
- PW3. JOINTS SHALL ONLY BE MADE BETWEEN PIPE MATERIALS OF THE SAME GRADE AS DEFINED IN AS4130. PILOT WELDS SHALL BE MADE AND TESTED FOR ANY PROPOSED JOINTS BETWEEN PIPES FROM DIFFERENT MANUFACTURERS.
- PW4. FUSION BUTT-WELDED JOINTS SHALL ACHIEVE AT LEAST 90% OF THE TENSILE STRENGTH OF THE PARENT PIPE. INTERNAL WELD BEADS SHALL NOT BE REMOVED.
- PW5. ALL WELDING SHALL BE PERFORMED UNDER CONTROLLED ENVIRONMENTAL CONDITIONS. FIELD WELDING SHALL BE CARRIED OUT IN SHELTERS TO PREVENT DUST AND WATER CONTAMINATION. SHELTERS SHALL REMAIN IN PLACE UNTIL COMPLETION OF THE JOINT COOLING PERIOD. PIPE ENDS SHALL BE BLOCKED OFF TO PREVENT WIND CHILL AND DIRT CONTAMINATION.
- PW6. WELDING MACHINES USING HAND WOUND CARRIAGES WITHOUT PRESSURE GAUGES SHALL NOT BE USED. AT ALL TIMES THAT WELDING IS IN PROGRESS, THE WELDER SHALL HAVE AVAILABLE A HAND-HELD TEMPERATURE SENSING DEVICE CAPABLE OF CHECKING THE TEMPERATURE OF THE HEATER PLATE AT THE CIRCUMFERENCE OF THE WELD.

MILD STEEL NOTES:

- M1. MILD STEEL PIPES & FITTINGS SHALL COMPLY WITH AS1579 AND BE CEMENT LINED IN ACCORDANCE WITH AS1281 UNLESS NOTED OTHERWISE.
- M2. EXTERNAL COATINGS ON THE PIPES AND FITTINGS SHALL BE FUSION BONDED MEDIUM DENSITY POLYETHYLENE COMPLYING WITH AS4321 (SINTAKOTE II).
- M3. ALL MILD STEEL FITTINGS (BRANCHES ETC) TO BE WELDED IN ACCORDANCE WITH THE SEQ S&SW & D&C CODE (2013).

DUCTILE IRON CEMENT LINED PIPE (DICL) NOTES:

- D1. ALL DICL PIPES AND FITTINGS TO BE WRAPPED WITH POLYETHYLENE SLEEVING AS PER THE MANUFACTURER'S RECOMMENDATIONS.
- D2. DICL PIPES AND NON-FLANGED FITTINGS MUST BE FLANGE CLASS AND COMPLY WITH A.S. 2280.
- D3. FLANGED DICL FITTINGS SHALL BE PN16 AND COMPLY WITH A.S. 2280.

MAINTENANCE HOLES:

- MH1. ALL MAINTENANCE HOLES TO BE CAST IN-SITU USING SPECIAL CLASS CONCRETE (WSA PS-358) UNLESS OTHERWISE STATED.
- MH2. SPECIAL CLASS CONCRETE (WSA PS-358) TO BE: STRENGTH CLASS 40 MPa
AGGREGATE SIZE 20mm; SLUMP 75mm
ONLY CALCAREOUS AGGREGATES TO BE USED. CALCAREOUS AGGREGATES ARE AGGREGATES DEFINED AS HAVING AN ACID SOLUBILITY GREATER THAN 98% WHEN TESTED IN ACCORDANCE WITH AWWA B 100.
- MH3. INTERNAL FORMWORK TO BE STRIPPED BEFORE EXTERNAL FORMWORK.
- MH4. CONCRETE TO CURED AS BELOW PRIOR TO LOADING OF MAINTENANCE HOLE:
- TOP SLAB 7 DAYS
 - WALL 3 DAYS
- MH5. MAINTENANCE HOLE LADDERS AND STEP IRONS TO BE INSTALLED AS PER THE SEQ S&SW & D&C CODE (2013) AND STANDARD DRAWING SEQ-SEW-1301-12. STEP IRONS & FIXING METHOD TO BE IN ACCORDANCE WITH AS1657. ALL LADDERS AND STEP IRONS RUNGS SHALL BE DEFORMED N20 BARS AND 316 STAINLESS STEEL.
- MH6. NEW MAINTENANCE HOLES SHOWN AS PE LINED SHALL BE LINED IN ACCORDANCE WITH SEQ CODE STANDARD DRGs SEQ-SPS-1407-1 AND SEQ-SPS-1407-2.
- MH7. ALL MAINTENANCE HOLES COVER AND FRAME SHALL BE SEWER CLASS D BOLT DOWN COVER AND FRAME IN ACCORDANCE WITH SEQ CODE STANDARD DRAWINGS SEQ-SEW-1308-8, SEQ-SEW-1308-9, SEQ-SEW-1308-10 AND SEQ-SEW-1308-11.
- MH8. STAINLESS STEEL SAFETY CHAIN AND ANCHORAGE TO BE INSTALLED AT EXIT IN EACH NEW MAINTENANCE HOLE, AS PER SEQ STD DRGs SEQ-SEW-1301-6 & 1301-9.

SAFETY NOTES:

- S1. THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

ROADWAY RESTORATION NOTES:

- R1. PAVEMENT AND DRAINAGE WORKS WITHIN THE BCC ROAD CORRIDOR ARE TO BE CONSTRUCTED IN ACCORDANCE WITH BCC SPECIFICATIONS.
- R2. SUB-GRADE AND ROAD PAVEMENTS ARE TO BE COMPACTED TO 95% RD TO AS 1289.5.2.1.

TRAFFIC CONTROL AND MANAGEMENT:

- T1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF ALL TRAFFIC CONTROL AND MANAGEMENT PLANS AND PERMIT APPLICATIONS INCLUDING PAYMENTS OF ALL ASSOCIATED FEES AND CHARGES.
- T2. THE CONTRACTOR SHALL MINIMISE ALL OBSTRUCTIONS TO TRAFFIC. PROVISION FOR TRAFFIC ON LOCAL ROADS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND BRISBANE CITY COUNCIL REQUIREMENTS.

ACCESS:

- A1. THE CONTRACTOR SHALL GAIN ACCESS TO THE SITE AT LOCATIONS APPROVED BY THE PRINCIPAL OR RELEVANT AUTHORITIES INCLUDING QUEENSLAND URBAN UTILITIES AND BRISBANE CITY COUNCIL.
- A2. THE CONTRACTOR SHALL ARRANGE, FINALISE AND EXECUTE ACCESS AGREEMENTS TO PRIVATE PROPERTIES REQUIRED TO UNDERTAKE ALL CONSTRUCTION ACTIVITIES.
- A3. THE CONTRACTOR SHALL MAINTAIN FREE ACCESS TO ALL WORK AREAS ON PRIVATE PROPERTIES AT ALL TIMES IF REQUIRED BY PRIVATE PROPERTIES OWNERS.
- A4. THE PROJECT PROPONENT MUST UNDERTAKE AND RESOLVE ALL MATTERS REGARDING ENTRY INTO PRIVATE PROPERTY INCLUDING CONSTRUCTION ACCESS, AT THE PROJECT PROPONENT'S OWN COST. NO WORK SHALL COMMENCE WITHIN ANY PRIVATE PROPERTY UNTIL THE PROJECT PROPONENT HAS VERIFIED THAT ALL REQUIRED APPROVALS ARE IN PLACE AND THAT ALL OWNERS/RESIDENTS HAVE BEEN PROVIDED WITH THE NECESSARY NOTICES OF ENTRY.

QR WAYLEAVE APPLICATION AND APPROVAL

- QR1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUEENSLAND RAIL WAYLEAVE APPLICATION INCLUDING SUBMISSION OF DETAILED WORK METHOD STATEMENTS, TECHNICAL DRAWINGS AND APPROVED PLANS AND PAYMENT OF ALL ASSOCIATED FEES AND CHARGES.

ENVIRONMENTAL MANAGEMENT:

- E1. CONTACT LOCAL COUNCIL PRIOR TO CONSTRUCTION FOR APPROVAL TO REMOVE OR REPLACE EXISTING TREES.
- E2. ALL TREES AND SHRUBS THAT ARE TO BE RETAINED MUST BE PROTECTED FROM DAMAGE AS DETERMINED BY THE LOCAL COUNCIL.
- E3. NO TREE SHALL BE LOPPED OR REMOVED WITHOUT THE WRITTEN PERMISSION OF THE LOCAL COUNCIL.
- E4. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.
- E5. PIPELINES ADJACENT TO SIGNIFICANT TREES MUST BE INSTALLED BY BORING OR DIRECTIONAL DRILLING UNLESS OTHERWISE AGREED BY QUU AND LOCAL COUNCIL.
- E6. FOR TRENCH INSTALLATIONS TREE ROOTS MUST BE EXPOSED BY HAND EXCAVATION. TREE ROOTS MUST BE CUT CLEANLY AND A BITUMINOUS FUNGICIDAL SEALANT APPLIED TO THE CUT SURFACE.
- E7. BACKFILL AROUND TREE ROOTS USING A MIXTURE OF THREE PARTS TOPSOIL TO ONE PART COMPOST, LIGHTLY COMPACTED.
- E8. EXCAVATION UNDER TREE CANOPIES TO BE BACKFILLED AS SOON AS POSSIBLE.
- E9. TOPSOIL AND SUBSOIL MUST BE STOCKPILED SEPARATELY.
- E10. PLACE APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
- E11. SOIL MUST NOT BE STOCKPILED WITHIN 5M OF ANY CREEK OR WATER COURSE.
- E12. IF YOU SUSPECT FIRE ANTS ON SITE CALL BIOSECURITY QUEENSLAND ON 13 25 23.
- E13. ALL ENVIRONMENTAL PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK (INCLUDING CLEARING) COMMENCING.
- E14. AIR:
- E14.1 NO RELEASE OF AIR POLLUTION SUCH AS DUST, SMOKE, ASH, AEROSOLS, ODOUR, LIGHT AND FUMES THAT MAY CAUSE AN ENVIRONMENTAL NUISANCE.
- E15. COMMUNITY:
- E15.1 ENSURE NO DISTURBANCE TO PROTECTED/SIGNIFICANT (NATIVE SPECIES OR RARE OR ENDANGERED) SPECIES AND DECLARED WEEDS WITHOUT APPROPRIATE ENVIRONMENTAL MANAGEMENT ADVICE
- E15.2 ALL TREES AND SHRUBS THAT ARE TO BE RETAINED MUST BE PROTECTED FROM DAMAGE AS DETERMINED BY AS 4970.
- E16. THE CONTRACTOR SHALL SUBMIT AN ENVIRONMENTAL MANAGEMENT PLAN TO MITIGATE POTENTIAL IMPACTS ON THE ENVIRONMENT IN THE PROCESS OF THE WORKS AS PER CLAUSE 2.11 OF THE SUPPLY AND CONSTRUCTION SPECIFICATION.

ENVIRONMENTAL MANAGEMENT: (CONT'D)

- E17. FAUNA:
- E17.1 ENSURE NO HARM IS CAUSED IN NATIVE AND NATURAL AREAS OR THOSE AREAS IDENTIFIED AND PROTECTED BY LOCAL, STATE OR FEDERAL AUTHORITIES (THIS INCLUDES HOLLOWES, DEAD TREES ETC.).
- E17.2 RIFA: RED IMPORTED FIRE ANT ZONES MUST BE MANAGED IN ACCORDANCE WITH DAFF PROCEDURES AND ANY APPROVED FIRE AND MANAGEMENT PLANS.
- E18. FLORA:
- E18.1 ENSURE NO DISTURBANCE TO PROTECTED/SIGNIFICANT (NATIVE SPECIES OR RARE OR ENDANGERED) SPECIES AND DECLARED WEEDS WITHOUT APPROPRIATE ENVIRONMENTAL MANAGEMENT ADVICE.
- E18.2 ALL TREES AND SHRUBS THAT ARE TO BE RETAINED MUST BE PROTECTED FROM DAMAGE AS DETERMINED BY AS 4970.
- E19. HERITAGE:
- E19.1 ANY ABORIGINAL CULTURE HERITAGE FINDS MUST BE MANAGED IN ACCORDANCE WITH THE DUTY OF CARE GUIDELINES UNDER THE ABORIGINAL CULTURE HERITAGE ACT 2003.
- E20. LAND MANAGEMENT:
- E20.1 ENSURE MINIMAL DISTURBANCE AND APPROPRIATE MANAGEMENT TO ACID SOILS, ACID SULFATE SOILS, CONTAMINATED LAND, AND HIGHLY ERODIBLE AND DISPERSIBLE SOILS.
- E20.2 PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS MUST BE REINSTATED, UNLESS OTHERWISE SPECIFIED.
- E20.3 ALL DISTURBANCE AREAS MUST BE LEFT IN A STABLE CONDITION THAT IS EQUIVALENT TO OR BETTER THAN THE SITE CONDITION PRIOR TO THE COMMENCEMENT OF WORKS.
- E21. NOISE AND VIBRATION:
- E21.1 IMPLEMENT APPROPRIATE MANAGEMENT FOR NOISE AND VIBRATION FROM CONSTRUCTION, OPERATION AND MAINTENANCE ACTIVITIES SO AS TO NOT CAUSE ENVIRONMENTAL NUISANCE.
- E21.2 WORKS MUST NOT OCCUR OUTSIDE THE HOURS SPECIFIED BY DERM, NOR AS OTHERWISE SPECIFIED.
- E22. WASTES:
- E22.1 ENSURE APPROPRIATE WASTE STORAGE FACILITIES ARE AVAILABLE ON SITE FOR DIFFERENT WASTE STREAMS (ASBESTOS, GENERAL, GREEN ETC.).
- E22.2 IMPLEMENT THE MANAGEMENT OF WASTES WHERE POSSIBLE THROUGH WASTE AVOIDANCE; WASTE RE-USE, WASTE RECYCLING, ENERGY RECOVERY FROM WASTE; AND WASTE DISPOSAL.
- E22.3 SPECIAL WASTE PROCEDURES MUST BE IMPLEMENTED FOR WORKS INVOLVING CONTAMINATED LAND, ACID SULFATE SOILS, PESTS (E.G. FIRE ANTS) AND WEEDS.
- E22.4 THE TRANSPORTATION, STORAGE OR TREATMENT OF REGULATED WASTES IS AN ENVIRONMENTALLY RELEVANT ACTIVITY THAT REQUIRES APPROVAL. THE TRANSPORTER MUST HAVE THE APPROPRIATE LICENCE AND COMPLY WITH TRACKABLE WASTES REQUIREMENTS.
- E23. WATER:
- E23.1 ENSURE WATER QUALITY POLLUTANTS FROM CONSTRUCTION, OPERATION AND MAINTENANCE WORKS SUCH AS CONCRETE, SEDIMENT, ACIDIC SOILS, SEWAGE, HAZARDOUS/REGULATED WASTE ARE NOT RELEASED INTO WATERWAYS/STORMWATER.
- E23.2 ENSURE THE WASTE WATER IS NOT DISCHARGED INTO SENSITIVE AREAS.
- E23.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING ALL GROUND WATER DISPOSAL IN ACCORDANCE WITH BRISBANE CITY COUNCIL AND STATE GOVERNMENT LEGISLATION AND REQUIREMENTS INCLUDING ARRANGE, FINALISE AND EXECUTE ALL PERMIT APPLICATIONS, MONITORING, REPORTING AND PAYMENT OF ALL FEES AND ASSOCIATED CHARGES. THE CONTRACTOR ALLOW FOR OFFSITE DISPOSAL AS REQUIRED.
- E24. IF YOU SUSPECT FIRE ANTS ON SITE CALL BIODIVERSITY QLD ON 13 25 23.
- E25. ALL ENVIRONMENTAL PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK (INCLUDING CLEARING) COMMENCING.

EASEMENT REQUIREMENTS:

- ER1. IN ACCORDANCE WITH QUU REQUIREMENTS AND THE CURRENT SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE, WHERE PROPOSED QUU INFRASTRUCTURE IS TO BE LOCATED WITHIN PRIVATE PROPERTY, PUBLIC UTILITY EASEMENT(S) MUST BE PROVIDED AT NO COST TO QUU. THE TERMS OF THE EASEMENT(S) MUST BE TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER OF QUU PRIOR TO THE COMMENCEMENT OF USE OF THE NEWLY CREATED INFRASTRUCTURE.
- ER2. THE PROJECT PROPONENT IS RESPONSIBLE FOR ALL EASEMENT MATTERS (INCLUDING, BUT NOT LIMITED TO: LAND OWNER NEGOTIATION, COMPENSATION, AND AGREEMENT, EASEMENT SURVEY, EASEMENT CREATION AND REGISTRATION), AT NO COST TO QUU.

SITE SPECIFIC NOTES:

- ST1. ALL NEW SEWERAGE TO BE DETAIL CCTV INSPECTED UNDER QUU AUDITOR SUPERVISION. QUU WILL NOT ACCEPT NON-COMPLIANT ASSET(S) OR ALLOW SUCH TO BE CONNECTED TO SYSTEM UNTIL ACCEPTED.
- ST2. PROTECT EXISTING AND NEW SEWERAGE FROM IMPACT OF CONSTRUCTION, MOVEMENT AND PRESSURE. NO HEAVY VIBRATION NEAR ANY QUU INFRASTRUCTURE.
- ST3. THE CONTRACTOR IS TO LOCATE, SURVEY AND PROTECT EACH INDIVIDUAL PROPERTY HOUSE DRAIN CONNECTION BRANCH TO SEWER, AND HOUSE DRAIN AS APPROPRIATE PRIOR TO COMMENCING WORKS.
- ST4. REFER GEOTECHNICAL REPORTS ENTITLED:
- RNA TRUNK SEWER - CONNECTION TO S1 TUNNEL - GEOTECHNICAL INVESTIGATION REPORT 27 AUGUST 2014.
 - PROPOSED CULVERT, STORMWATER DETENTION TANK AND SEWER - RNA REDEVELOPMENT, ALEXANDRIA STREET, BOWEN HILLS, NOVEMBER 2011
- THE CONTRACTOR SHALL DETERMINE THE RELIABILITY, ACCURACY AND ADEQUACY OF THE INFORMATION IN RELATION TO ANY AND ALL GROUND CONDITIONS AND PROFILE DESCRIBED IN THE GEOTECHNICAL INVESTIGATION REPORTS AND LONGITUDINAL SECTION ON THE DRAWINGS. THE CONTRACTOR SHALL UNDERTAKE ANY NECESSARY ADDITIONAL INVESTIGATION AS REQUIRED AS OUTLINED IN CLAUSE 2.18.18 OF THE SUPPLY AND CONSTRUCTION SPECIFICATION.
- ST5. THE CONTRACTOR SHALL ARRANGE FOR CCTV INSPECTION AND REPORT FOR THE LOCAL EXISTING GRAVITY SEWERS, BOTH BEFORE AND AFTER CONSTRUCTION OF NEW TRUNK SEWER. COPY OF CCTV INSPECTIONS TO BE PROVIDED TO QUU AUDIT AND COMPLIANCE OFFICER. ALL ADDITIONAL IDENTIFIED DEFECTS SHALL BE RECTIFIED BY CONTRACTOR, AT NO COST TO QUU. (RECTIFICATION WORKS TO BE VERIFIED BY CCTV):

MH 156586 - MH 156587	DN300	EW	LS158115
MH 156587 - MH 156588	DN300	EW	LS158116
MH 156588 - MH 156589	DN300	EW	LS158117
MH 156589 - MH 266594	DN300	EW	LS271103
MH 266594 - MH 156584	DN300	EW	LS158118
MH 156584 - MH 167215	DN300	EW	LS143755
MH 156588 - MH 156612	DN150	EW	LS158140
MH 156586 - MH 156575	DN225	EW	LS158109
MH 150319 - MH 150312	DN150	EW	LS151279
MH 156586 - MH 269824	DN375	EW	LS158143
MH 269824 - MH 156503	DN375	EW	LS272316
MH 156503 - MH 156052	DN375	EW	LS158034
MH 156052 - MH 156557	DN375	EW	LS158033
MH 156557 - MH 142775	DN375	EW	LS158088

THE EXISTING SEWER SHALL BE JET CLEANED PRIOR TO CONDUCTING PRE AND POST CONSTRUCTION CCTV.

- ST6. CCTV AND INCLINOMETER REPORT MUST BE PREPARED TO QUU AND SEQ CODE STANDARDS IN TERMS OF REPORTING AND SEWER MAIN AND MAINTENANCE HOLE ANNOTATION AND CODING.

FLOW CONTROL:

- FC1. PRIOR TO COMMENCEMENT OF WORKS ON-SITE, A QUU NETWORK ACCESS PERMIT (AND ASSOCIATED FLOW CONTROL PLAN(S)) MUST BE OBTAINED FROM THE QUU NETWORK ACCESS TEAM. FOR FURTHER INFORMATION PLEASE CONTACT THE QUU NETWORK ACCESS TEAM ON PH: 3856 7033 OR EMAIL: NETWORKACCESS@URBANUTILITIES.COM.AU
- FC2. PLEASE ENSURE THE QUU CONTACT FOR THE NETWORK ACCESS PERMIT APPLICATION IS THE QUU AUDITOR NOTED ON THESE PLANS

CONSTRUCTION INSPECTION:
NOTIFICATION OF INSPECTIONS MUST BE RECEIVED BY QUEENSLAND URBAN UTILITIES AUDIT & COMPLIANCE OFFICER AT LEAST TWO (2) WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION
PLEASE CONTACT TONY FACEY 0412 436 579



PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

10 DEC 2015

MEDQ

AMENDMENT A

PAKEE BALA DATE 29/07/15
QUEENSLAND URBAN UTILITIES DELEGATE
(VALID FOR 12 MONTHS FROM DATE SHOWN)

ORIGINAL SIGNED BY PAKEE BALA DATE 09/01/2015
QUEENSLAND URBAN UTILITIES DELEGATE
(VALID FOR 12 MONTHS FROM DATE SHOWN)

GOVERNMENT CLIENT PROJECT

CLIENT:	LEND LEASE
CONTACT:	MITCHELL WILTON 0409 756 314
QUU U. AUDITOR:	AUDIT & COMPLIANCE OFFICER QUEENSLAND URBAN UTILITIES
CONTACT:	TONY FACEY 0412 436 579

AS CONSTRUCTED DETAILS FOR AMEND.

I CERTIFY THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS

SIGNED	DATE:
NAME OF SIGNATORY	
RPEQ No. or LICENCE	
COMPANY NAME	
START DATE	FINISH DATE



SHEET No. 4 OF 28
QUEENSLAND URBAN UTILITIES DRAWING No. AMEND.
486/5/6-0146-004 A

ENGINEERING CERTIFICATION

SIGNED: DATE: 29.7.15
NAME OF SIGNATORY (PRINT): JUN LI CHAI
RPEQ NUMBER: 10808
COMPANY NAME: PARSONS BRINCKERHOFF

CONSTRUCTION ISSUE

ASSET/PROJECT
RNA SHOWGROUNDS
EXTERNAL SEWER CONNECTION

DRAWING TITLE
GENERAL NOTES
SHEET 2

DRAFTED	MN
DRAFTING CHECK	CG
CAD FILE	2103474E-SEW-0004
Q.U.U. FILE No.	

A QUU NETWORK ACCESS PERMIT MUST BE OBTAINED FROM THE QUU NETWORK ACCESS TEAM PRIOR TO THE COMMENCEMENT OF WORK ON-SITE. FOR FURTHER INFORMATION PLEASE CONTACT QUU NETWORK ACCESS TEAM ON PH: 3856 7033 OR EMAIL: NETWORKACCESS@URBANUTILITIES.COM.AU

A	29.07.15	NOTES AMENDED	MN	JC
No.	DATE	AMENDMENT	DRAFTED	DESIGNED
			RPEQ NO.	APPROVED

CAUTION !!
UNDERGROUND
CABLES

UNDERGROUND CABLES
EXIST IN THIS VICINITY.
CONTACT ENERGEX PRIOR
TO EXCAVATION.

CAUTION !!
OVERHEAD
POWERLINES

OVERHEAD POWERLINES
EXIST IN THIS VICINITY.

CAUTION !!
UNDERGROUND
TELSTRA
O.F. CABLES

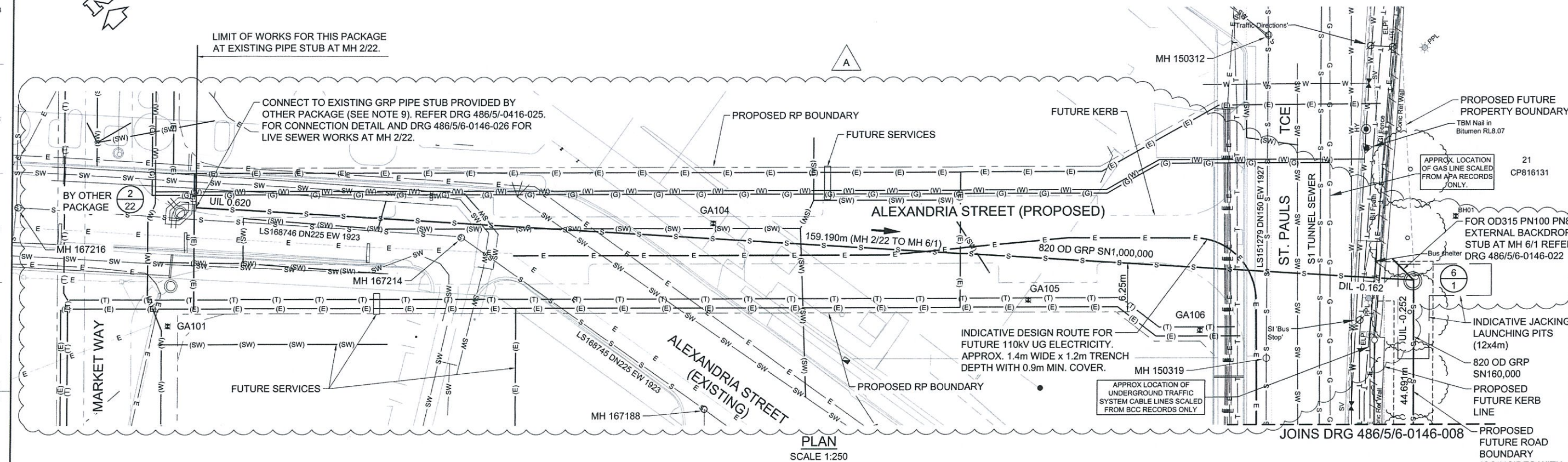
UNDERGROUND TELECOMMUNICATIONS
CABLES EXIST IN THIS VICINITY.
CONTACT TELSTRA FOR LOCATION
PRIOR TO EXCAVATION.

CAUTION !!
UNDERGROUND
GAS
PIPELINES

UNDERGROUND GAS PIPELINES EXIST IN
THIS VICINITY.
CONTACT APA GROUP FOR LOCATION
PRIOR TO EXCAVATION.

MAINTENANCE HOLE SETOUT TABLE *			
No.	EASTING	NORTHING	COMMENT
6/1	503476.234	6963430.615	PIPE INTERSECTION POINT
2/22	503363.452	6963542.146	EXISTING MH

* REFER NOTE 4.



NOTES

- FOR LEGEND REFER DRG 486/5/6-0146-001.
- FOR GENERAL NOTES REFER DRG 486/5/6-0146-003 & 004, AND FOR STRUCTURAL NOTES REFER DRG 486/5/6-0146-005.
- ALL COORDINATES ARE IN MGA COORDINATES AND ALL LEVELS ARE RELATIVE TO THE AUSTRALIA HEIGHT DATUM (AHD).
- FOR TYPICAL MAINTENANCE HOLE DETAILS REFER SEQ STANDARD DRAWINGS LISTED IN DRG 486/5/6-0146-002
- FOR CONNECTION DETAIL TO EXISTING MH142775 REFER DRGS 486/5/6-0146-016, 017, 018, 019 AND 020.
- FOR SITE SPECIFIC MAINTENANCE HOLE DETAILS REFER DRGS 486/5/6-0146-021, 022, 023, 024 AND 025.
- FOR GRAVITY SEWER LONGITUDINAL SECTIONS REFER DRG 486/5/6-0146-010 TO 015.
- SITE LAYOUT INCLUDING EXISTING AND FUTURE ROAD KERBS, STORMWATER SERVICES AND UTILITIES SERVICES ARE BASED ON INFORMATION OBTAINED FROM QUU DRG 486/5/6-0145-003 REV A AND 005 REV A (CARDNO DRG 161163-050-CD-301-5555 REV02 AND 5570 REV03 - 22/6/15) "RNA SHOWGROUND REDEVELOPMENT, ALEXANDRA STREET TRUNK SEWER".
- PRIOR TO COMMENCING WORKS, THE CONTRACTOR SHALL OBTAIN AS CONSTRUCTED INFORMATION ON THE EXISTING BUILDING ALONG THE EXISTING ALEXANDRIA STREET TO CONFIRM ANY EXISTING BUILDING FOUNDATION WILL NOT INTERFERE WITH THE INSTALLATION OF THE PROPOSED TRUNK SEWER.

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

10 DEC 2015

MEDQ

LEGEND - PROPOSED SERVICES (REFER NOTE 6.)

- (E) — (E) — (E) — ELECTRICITY UNDERGROUND
- (T) — (T) — (T) — TELECOMMUNICATION
- (G) — (G) — (G) — GAS
- (W) — (W) — (W) — WATER
- (SW) — (SW) — (SW) — STORMWATER DRAINAGE

AMENDMENT A

PAKEE BALA, DATE 29/01/15
QUEENSLAND URBAN UTILITIES DELEGATE
(VALID FOR 12 MONTHS FROM DATE SHOWN)

ORIGINAL SIGNED BY PAKEE BALA, DATE 09/01/2015
QUEENSLAND URBAN UTILITIES DELEGATE
(VALID FOR 12 MONTHS FROM DATE SHOWN)

GOVERNMENT CLIENT PROJECT	
CLIENT:	LEND LEASE
CONTACT:	MITCHELL WILTON 0409 756 314
Q.U.U. AUDITOR:	AUDIT & COMPLIANCE OFFICER QUEENSLAND URBAN UTILITIES TONY FACEY 0412 436 579
CONTACT:	

AS CONSTRUCTED DETAILS FOR AMEND.

I CERTIFY THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS

SIGNED: _____ DATE: _____

NAME OF SIGNATORY

RPEQ No. or LICENCE

COMPANY NAME

START DATE _____ FINISH DATE _____

CONSTRUCTION INSPECTION:
NOTIFICATION OF INSPECTIONS MUST BE RECEIVED BY
QUEENSLAND URBAN UTILITIES AUDIT & COMPLIANCE
OFFICER AT LEAST TWO (2) WEEKS PRIOR
TO COMMENCEMENT OF CONSTRUCTION
PLEASE CONTACT TONY FACEY 0412 436 579



No.	DATE	AMENDMENT	DRAFTED	DESIGNED	RPEQ NO.	APPROVED	Q.U.U. FILE No.
A	29.07.15	MH 6/1 TO 2/22 ADDED	MN	JC			

DRAFTED	MN
DRAFTING CHECK	CG
CAD FILE	2103474E-SEW-0103
Q.U.U. FILE No.	

A QUU NETWORK ACCESS PERMIT MUST BE OBTAINED FROM THE QUU NETWORK ACCESS TEAM PRIOR TO THE COMMENCEMENT OF WORK ON-SITE. FOR FURTHER INFORMATION PLEASE CONTACT QUU NETWORK ACCESS TEAM ON PH: 3856 7033 OR EMAIL: NETWORKACCESS@URBANUTILITIES.COM.AU

ENGINEERING CERTIFICATION

SIGNED: DATE: 29.7.15

NAME OF SIGNATORY (PRINT): JUNLI CHAI

RPEQ NUMBER: 10808

COMPANY NAME: PARSONS BRINCKERHOFF

CONSTRUCTION ISSUE

ASSET/PROJECT

RNA SHOWGROUNDS
EXTERNAL SEWER CONNECTION

DRAWING TITLE

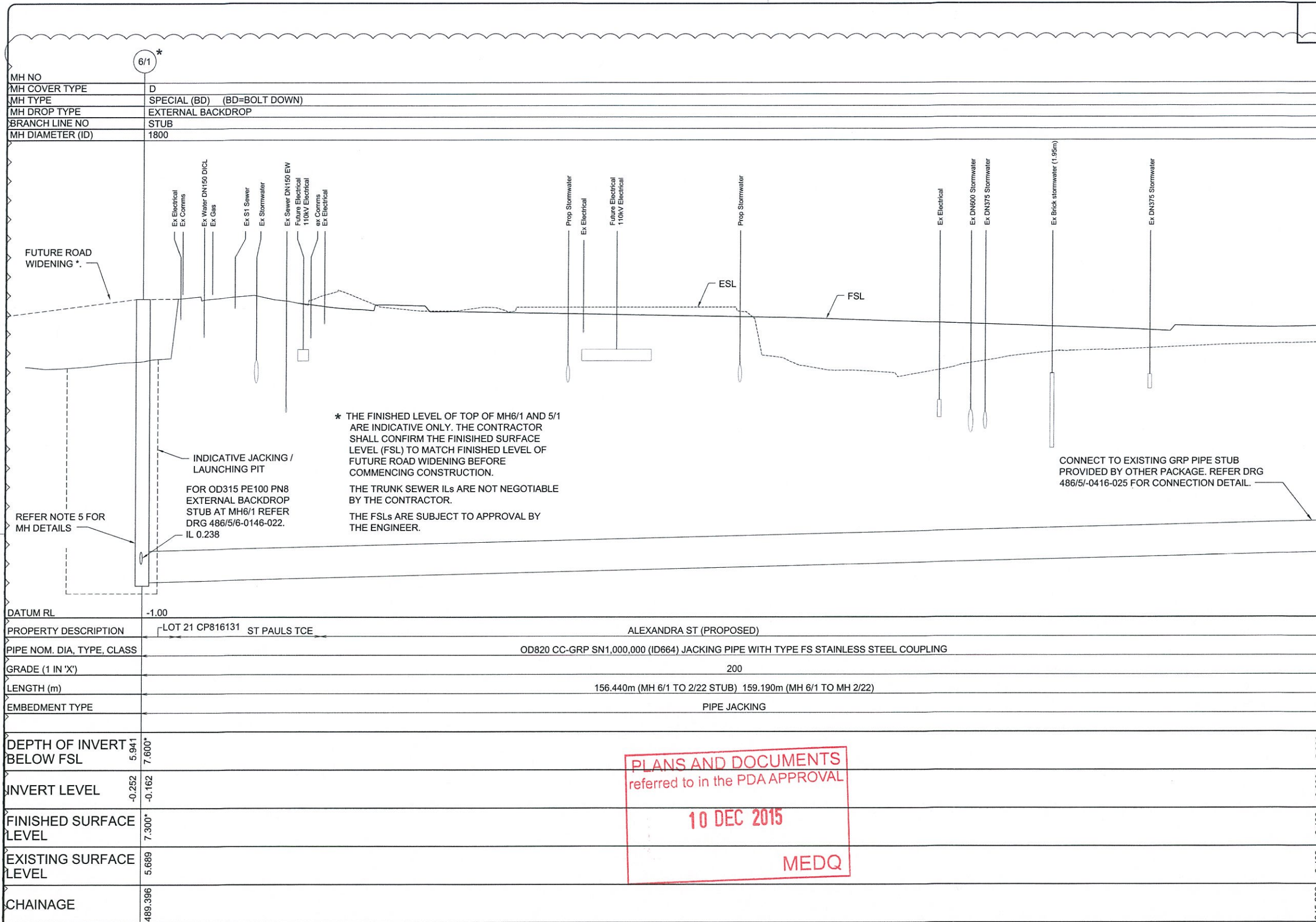
GENERAL ARRANGEMENT PLAN
SHEET 4

SHEET No. 9 OF 28

QUEENSLAND URBAN UTILITIES DRAWING No. 486/5/6-0146-009

AMEND. A

Plotted By: Nardila M Plot Date: 29/07/15 - 10:28 Cad File: \\apbner03\proj\lend_lease_developments\2103474E_SEW-0205.dwg



NOTES

- REFER DRG 486/5/6-0146-014 FOR STANDARD NOTES.
- LONGITUDINAL SECTION INCLUDING EXISTING AND FINISHED SURFACE LEVELS, EXISTING AND FUTURE ROAD KERBS, STORMWATER SERVICES AND UTILITIES SERVICES ARE BASED ON INFORMATION OBTAINED FROM QUU DRG 486/5/6-0145-004 REV A (CARDNO DRG 161163-050-CD-C301-5560 REV04 - 22/6/15) 'RNA SHOWGROUND REDEVELOPMENT, ALEXANDRIA STREET TRUNK SEWER'.

AMENDMENT A

PAKEE BALA 29/07/15
QUEENSLAND URBAN UTILITIES DELEGATE
(VALID FOR 12 MONTHS FROM DATE SHOWN)

ORIGINAL SIGNED BY PAKEE BALA DATE 09/01/2015
QUEENSLAND URBAN UTILITIES DELEGATE
(VALID FOR 12 MONTHS FROM DATE SHOWN)

GOVERNMENT CLIENT PROJECT
CLIENT: LEND LEASE
CONTACT: MITCHELL WILTON 0409 756 314
Q.U.U. AUDITOR: AUDIT & COMPLIANCE OFFICER
QUEENSLAND URBAN UTILITIES
CONTACT: TONY FACEY 0412 436 579

AS CONSTRUCTED DETAILS FOR AMEND.
I CERTIFY THAT THE 'AS CONSTRUCTED' DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS
SIGNED: _____ DATE: _____
NAME OF SIGNATORY
RPEQ No. or LICENCE
COMPANY NAME
START DATE FINISH DATE

LONGITUDINAL SECTION

HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:50

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

0 0.5 1 2 3
Full Size 1:50; Half Reduction 1:100
SCALE (m)

DRAFTED	MN
DRAFTING CHECK	CG
CAD FILE	2103474E-SEW-0205
Q.U.U. FILE No.	

A Q.U.U. NETWORK ACCESS PERMIT MUST BE OBTAINED FROM THE Q.U.U. NETWORK ACCESS TEAM PRIOR TO THE COMMENCEMENT OF WORK ON-SITE. FOR FURTHER INFORMATION PLEASE CONTACT Q.U.U. NETWORK ACCESS TEAM ON PH: 3856 7033 OR EMAIL: NETWORKACCESS@URBANUTILITIES.COM.AU

SIGNED: <i>K</i>	DATE: 29.7.15
NAME OF SIGNATORY (PRINT): JIUN I CHAI	
RPEQ NUMBER: 10808	
COMPANY NAME: PARSONS BRINCKERHOFF	

ENGINEERING CERTIFICATION

CONSTRUCTION ISSUE

ASSET/PROJECT: RNA SHOWGROUNDS EXTERNAL SEWER CONNECTION

CONSTRUCTION INSPECTION:
NOTIFICATION OF INSPECTIONS MUST BE RECEIVED BY QUEENSLAND URBAN UTILITIES AUDIT & COMPLIANCE OFFICER AT LEAST TWO (2) WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION PLEASE CONTACT TONY FACEY 0412 436 579

UrbanUtilities

QUEENSLAND URBAN UTILITIES

SHEET No. 15 OF 28	AMEND. A
486/5/6-0146-015	

MAINTENANCE HOLE SETOUT TABLE			
No.	EASTING	NORTHING	COMMENT
MH 2/22	503363.452	6963542.146	EXISTING MH

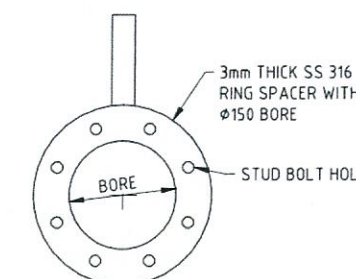
NOTES

- FOR LEGEND REFER DRG 486/5/6-0146-001.
- FOR GENERAL NOTES REFER DRG 486/5/6-0146-003 & 004, AND FOR STRUCTURAL NOTES REFER DRG 486/5/6-0146-005.
- ALL COORDINATES ARE IN MGA COORDINATES AND ALL LEVELS ARE RELATIVE TO THE AUSTRALIA HEIGHT DATUM (AHD).
- FOR GRAVITY SEWER LONGITUDINAL SECTIONS REFER DRG 486/5/6-0146-010 TO 015.
- SECTIONAL PLAN DETAILS OF MH2/22 ARE BASED ON INFORMATION OBTAINED FROM QUU DRG 486/5/6-0145-005, 006 AND 007 REV A (CARDNO DRG 161163-050-CD-C-301-5570 REV03, 5571 REV02 AND 5572 REV0 - 22/6/15) "RNA SHOWGROUND REDEVELOPMENT, ALEXANDRIA STREET TRUNK SEWER".
- ALL GRP JACKING PIPE COUPLING SHALL BE TYPE FS SS COUPLING.
- FOR STAGING OF LIVE SEWER WORKS REFER DRG 486/5/6-0146-026 AND LIVE SEWER WORKS DETAIL ON THIS DRAWING.

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

10 DEC 2015

MEDQ



RING SPACER
NOT TO SCALE

PAKKE BALA DATE 29/07/15
QUEENSLAND URBAN UTILITIES DELEGATE
(VALID FOR 12 MONTHS FROM DATE SHOWN)

GOVERNMENT CLIENT PROJECT

CLIENT: LEND LEASE
CONTACT: MITCHELL WILTON 0409 756 314
Q.U.U. AUDITOR: AUDIT & COMPLIANCE OFFICER
QUEENSLAND URBAN UTILITIES
CONTACT: TONY FACEY 0412 436 579

AS CONSTRUCTED DETAILS FOR AMEND.

I CERTIFY THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS

SIGNED: DATE:
NAME OF SIGNATORY
RPEQ No. or LICENCE
COMPANY NAME
START DATE FINISH DATE



SHEET No. 25 OF 28
QUEENSLAND URBAN UTILITIES DRAWING No.

486/5/6-0146-025

AMEND. O

CONSTRUCTION INSPECTION:
NOTIFICATION OF INSPECTIONS MUST BE RECEIVED BY QUEENSLAND URBAN UTILITIES AUDIT & COMPLIANCE OFFICER AT LEAST TWO (2) WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION
PLEASE CONTACT TONY FACEY 0412 436 579

CONSTRUCTION ISSUE

ASSET/PROJECT
RNA SHOWGROUNDS
EXTERNAL SEWER CONNECTION

DRAWING TITLE
CONNECTION AT EXISTING MH 2/22
IN ALEXANDRIA ST
STUB CONNECTION DETAILS

ENGINEERING CERTIFICATION

SIGNED: DATE: 29.7.15
NAME OF SIGNATORY (PRINT): JUNI CHAI
RPEQ NUMBER: 10808
COMPANY NAME: PARSONS BRINCKERHOFF

LIVE SEWER WORKS AT MH 2/22. REFER NOTE 7 AND TABLE DRG 486/5/6-0146-026

SCALE 1:20

NOTE: THIS DETAIL BASED ON QUU DRG 486/5/6-0145-006 REV A (CARDNO DRG 161163-050-CD-301-5571 REV02 - 22/6/15) "RNA SHOWGROUND REDEVELOPMENT, ALEXANDRIA STREET TRUNK SEWER".

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DRAFTED: MN
DRAFTING CHECK
CAD FILE: 2103474E-SEW-0500
Q.U.U. FILE No.

No.	DATE	AMENDMENT	DRAFTED	DESIGNED	RPEQ NO.	APPROVED
1						
2						
3						
4						

0 0.2 0.4 0.8 1.2
SCALE 1:20 : ON A1 SHEET
SCALE (m)