



INFRASTRUCTURE SERVICES for COMPLEX WORKS

105 HUNTER STREET, NEWCASTLE, NSW 2300

Prepared by
WALLACE INFRASTRUCTURE DESIGN PTY LTD

DRAWING SCHEDULE

22425-0	TITLE SHEET, DRAWING SCHEDULE AND LOCALITY PLAN "GIFTED ASSET"
22425-4	PROPOSED SEWER "GIFTED ASSET"
22425-5	SEWER LONGSECTION "GIFTED ASSET"

CONDITIONS

A. THE CONTRACTOR IS TO:-

- VERIFY ALL LEVELS PRIOR TO CONSTRUCTION.
- VERIFY ON SITE THE POSITION AND LEVELS OF ALL EXISTING AND PROPOSED SERVICES, PIPES, CABLES, CONDUITS AND BOUNDARIES. SERVICES SHOWN ARE INDICATIVE ONLY. POSITIONS ARE BASED ON SERVICE DIAGRAMS PROVIDED BY THE RELEVANT SERVICE AUTHORITIES THROUGH DIAL BEFORE YOU DIG REQUEST MADE - 09/08/2022. CONFIRMATION OF THE EXACT POSITION SHOULD BE MADE PRIOR TO ANY EXCAVATION WORK. OTHER SERVICES MAY EXIST WHICH ARE NOT SHOWN. SERVICES SHOWN HEREON HAVE BEEN PLOTTED TO SUIT AUSTRALIAN STANDARD - AS5488-2013 CLASS D AS A DESKTOP PLOT ONLY.
- DETERMINE THE DEPTH AND EXTENT OF ANY ROCK.
- PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROLS IN COMPLIANCE WITH THE DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT'S "URBAN EROSION AND SEDIMENT CONTROL" FIELD GUIDE.
- OBTAIN ANY NECESSARY CONSENT FOR THE REMOVAL OF TREES.
- MAKE ANY RELEVANT APPLICATIONS.

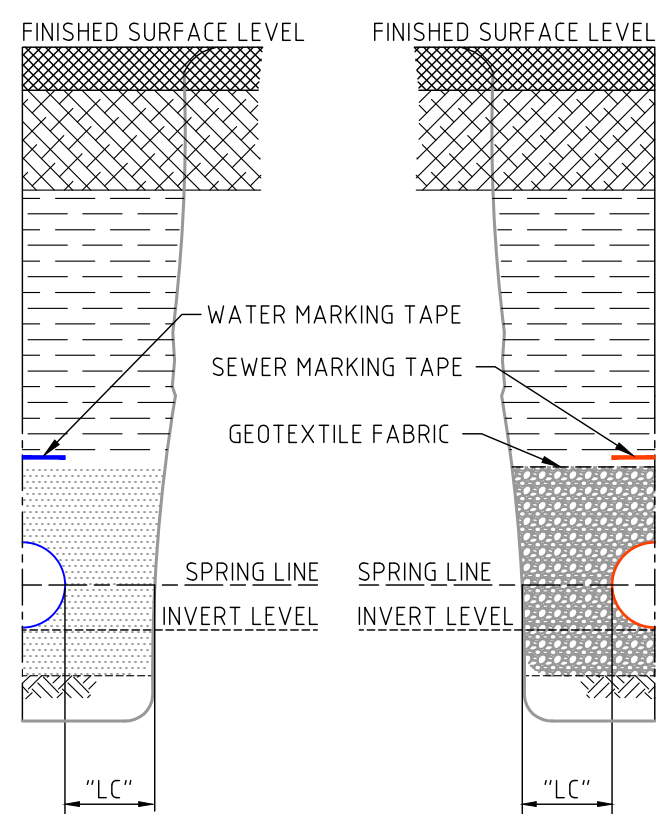
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MINIMUM PIPE COVER

LOCATION	MIN. COVER
NON ROADWAYS -GENERAL	600
-INDUSTRIAL /COMMERCIAL	750
-FOOTPATHS IN MAJOR ROADWAYS (RMS CONTROLLED ROADS)	900
COUNCIL ROADS -MINOR LOCAL ROADS	750
-OTHER COUNCIL ROADS	900
MAJOR ROADWAYS -EMBANKMENTS (RMS CONTROLLED ROADS)	1500
FREEWAYS	1500

WHERE MINIMUM COVER CAN NOT BE ACHIEVED, PROVIDE ALTERNATIVE PROTECTION OF THE PIPELINE



SPRING LINE TRENCH CLEARANCE

NOMINAL DIAMETER (DN)	MINIMUM CLEARANCE "LC"
≤150	100
>150 - ≤300	150
>300 - ≤450	200
>450 - ≤900	300
>900 - ≤1500	350

TRENCH WIDTH SHALL BE SUFFICIENT TO SAFELY LAY PIPE AND COMPACT THE SIDE SUPPORT ZONE.

TYPICAL WATER EMBEDMENT AND TRENCHFILL

FOR MORE DETAIL REFER TO WAT-1201, 1202 AND 1203 NOT TO SCALE

MINIMUM PIPE COVER

LOCATION	MIN. COVER
PRIVATE PROPERTY NON VEHICULAR NEW DEVELOPMENTS	600
PRIVATE PROPERTY NON VEHICULAR EXISTING DEVELOPMENTS	450
PRIVATE PROPERTY VEHICULAR	750
FOOTPATHS, SEALED ROADS (NON ARTERIAL)	900
UNSEALED ROADS	1200
ARTERIAL ROADS	1200-1500 (AS PER DESIGN)

WHERE MINIMUM COVER CAN NOT BE ACHIEVED, PROVIDE ALTERNATIVE PROTECTION OF THE PIPELINE

SPRING LINE TRENCH CLEARANCE

NOMINAL DIAMETER (DN)	MINIMUM CLEARANCE "LC"
≤150	100
>150 - ≤300	150
>300 - ≤450	200
>450 - ≤900	300
>900 - ≤1500	350

TRENCH WIDTH TO BE SUFFICIENT TO SAFELY LAY PIPE AND COMPACT THE SIDE SUPPORT ZONE.

TYPICAL SEWER EMBEDMENT AND TRENCHFILL

FOR MORE DETAIL REFER TO SEW-1201 AND 1202 NOT TO SCALE



LOCALITY PLAN
NTS

LEGEND

GAS	----	G
TELSTRA	----	T
OPTIC FIBRE	----	OFC
POWER	----	E
STORMWATER	----	SW
SLOPE DIRECTION	surface → mains →	
AR MARKER	SSM 190680	
PROPOSED LOT BOUNDARIES	RL 13.000	
ADJOINING LOT BOUNDARIES	----	
FENCE	----	

EXISTING SEWER	----
EXISTING WATER	----
PROPOSED SEWER	----
PROPOSED WATER	----
FUTURE WATER/SEWER	----
EXISTING VEGETATION	○ ○ ○
BUILDING FOOTPRINT	□
RETAINING WALL	▨
ABANDONED SERVICE	× × × × × × × ×

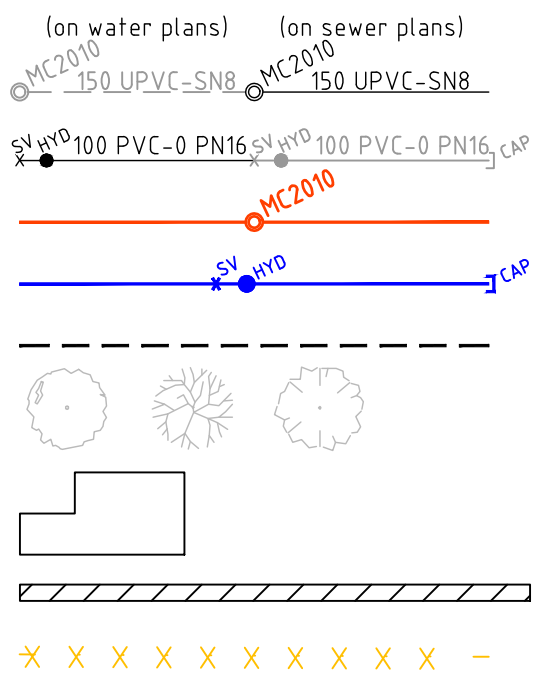


TABLE 5.5 CLEARANCES BETWEEN WATER MAINS AND UNDER GROUND SERVICES			
UTILITY (EXISTING OR PROPOSED SERVICE)	MINIMUM HORIZONTAL CLEARANCE mm NEW MAIN SIZE		MINIMUM VERTICAL CLEARANCE mm
	≤200	>200	
WATERMAINS ² ≥DN 375	600	600	300
WATERMAINS ² ≤DN 375	300 ³	600	150
GAS MAINS	300 ³	600	150
TELECOMMUNICATION CONDUITS AND CABLES	300 ³	600	150
ELECTRICITY CONDUITS AND CABLES	500	1000	225 ⁷
STORMWATER DRAINS	300 ³	600	150 ⁴
SEWERS-GRAVITY	1000 ⁵ /600	1000 ⁵ /600	500 ⁴
SEWERS-PRESSURE AND VACUUM	600	600	300
KERBS	150	600 ⁴	150 (WHERE POSSIBLE)

NOTES:

- VERTICAL CLEARANCES APPLY WHERE WATER MAINS CROSS ONE ANOTHER AND OTHER UTILITY SERVICES, EXCEPT IN THE CASE OF SEWERS WHERE A VERTICAL SEPARATION SHALL ALWAYS BE MAINTAINED, EVEN WHEN THE MAIN AND SEWER ARE PARALLEL. THE MAIN SHOULD ALWAYS BE LOCATED ABOVE THE SEWER TO MINIMISE THE POSSIBILITY OF BACKFLOW CONTAMINATION IN THE EVENT OF A MAIN BREAK.
- WATER MAINS INCLUDES MAINS SUPPLYING DRINKING WATER AND NON-DRINKING WATER (REFER TO DRAWING WAT-1810).
- CLEARANCES CAN BE FURTHER REDUCED TO 150mm FOR DISTANCES UP TO 2m WHERE MAINS ARE TO BE LAID PAST INSTALLATIONS SUCH AS CONCRETE BASES FOR POLES, PITS AND SMALL STRUCTURES. PROVIDING THE STRUCTURE WILL NOT BE DE-STABILISED IN THE PROCESS. THE CLEARANCE FROM TIMBER POLES SHOULD BE AT LEAST 200mm AND PREFERABLY 300mm.
- WATER MAINS SHOULD ALWAYS CROSS OVER SEWERS AND STORMWATER DRAINS. FOR CASES WHERE THERE IS NO ALTERNATIVE AND THE MAIN MUST CROSS UNDER THE SEWER, THE DESIGN SHALL NOMINATE AN APPROPRIATE TRENCHLESS CONSTRUCTION TECHNIQUE IN ACCORDANCE WITH CLAUSE 5.5 OR OTHER WATER MAIN CONSTRUCTION AND PROTECTION TREATMENT, EFFECTIVELY JOINT-FREE IN THE VICINITY OF THE SEWER.
- WHERE A PARALLEL SEWER IS AT THE MINIMUM VERTICAL CLEARANCE LOWER THAN THE WATER MAIN (500mm), MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 1m. THIS MINIMUM HORIZONTAL CLEARANCE CAN BE PROGRESSIVELY REDUCED TO 600mm AS THE VERTICAL CLEARANCE IS INCREASED TO 750mm.
- CLEARANCE FROM KERBS SHALL BE MEASURED FROM THE NEAREST POINT OF THE KERB. FOR WATER MAINS ≤DN 375 CLEARANCES FROM KERBS CAN BE PROGRESSIVELY REDUCED UNTIL THE MINIMUM OF 150mm IS REACHED FOR MAINS ≤DN 200.
- AN ADDITIONAL CLEARANCE FROM HIGH VOLTAGE ELECTRICAL INSTALLATIONS SHOULD BE MAINTAINED ABOVE THE CONDUITS OR CABLES TO ALLOW FOR A PROTECTIVE BARRIER AND MARKING TO BE PROVIDED.

5.12.6 DEVIATION OF WATER MAINS 5.12.6.1 GENERAL THERE MAY BE INSTANCES WHERE A DEVIATION FROM THE UNIFORM HORIZONTAL OR VERTICAL ALIGNMENT IS REQUIRED. INSTANCES COULD BE SUCH AS TO ACHIEVE THE REQUIRED DEPTH FOR VALVES AND HUNTER WATER EDITION VERSION 2 COPYRIGHT JULY 2017

TABLE 5.4 CLEARANCES BETWEEN SEWER MAINS AND UNDER GROUND SERVICES			
UTILITY (EXISTING OR PROPOSED SERVICE)	MINIMUM HORIZONTAL CLEARANCE MM NEW MAIN SIZE		MINIMUM VERTICAL CLEARANCE MM
	≤300	>300	
SEWERS ≤DN 300	300	600	150
SEWERS ≥DN 300	600	600	300
GAS MAINS	300 ³	600	150
TELECOMMUNICATION CONDUITS AND CABLES	300 ³	600	150
ELECTRICITY CONDUITS AND CABLES	500	1000	225 ⁷
STORMWATER DRAINS	300 ³	600	150 ⁴
WATER MAINS	1000 ⁵ /600	1000 ⁵ /600	500 ⁴
KERBS	150 ⁷	600 ⁷	N/A

NOTES:

- Vertical clearances apply when sewers cross one another, except in the case of water mains when a vertical separation shall always be maintained, even when the sewer and water main are parallel. The sewer should always be located below the water main to minimise the possibility of backflow contamination in the event of a main break.
- A minimum vertical clearance of 300 mm applies if the size of either the existing service or proposed sewer is ≥dn 300.
- Clearances can be further reduced to 150 mm for distances up to 2 m when passing installations such as poles, pits and small structures, providing the structure is not destabilised in the process.
- A sewer to be constructed under an existing or proposed stormwater pipe or channel ≥dn 375 may be concrete encased. concrete encase sewers crossing under brick barrel drains or unlined open drain or channel. the concrete encasement shall extend at least 1 m each side of the stormwater pipe or channel. clearances between the sewer and other services shall be measured from the outer surface of the concrete encasement (refer to drawing sew-1205).
- Sewers should always cross under water mains and stormwater drains. if this requirement cannot be met, consult the water agency in respect of alternatives such as adjusting the water main or stormwater drain. where a sewer crosses a water main at or close to 90°, the vertical clearance may be reduced subject to water agency requirements.
- When the sewer is at the minimum vertical clearance below the water main (500 mm) maintain a minimum horizontal clearance of 1000 mm. this minimum horizontal clearance can be progressively reduced to 600 mm as the vertical clearance increases to 750 mm.
- Clearance from kerbs shall be measured from the nearest point of the kerb.

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

CONSULTANT DETAILS:
WALLACE INFRASTRUCTURE DESIGN PTY LTD
PART OF WALLACE DESIGN GROUP PTY LTD
ABN: 99 632 518 739
SUITE 10, 87 KING STREET, WARNERS BAY, NSW 2282
PO BOX 850, WARNERS BAY, NSW 2282
phone: (02) 49 294 109
email: mail@wdsgroup.com.au
web: www.wdsgroup.com.au



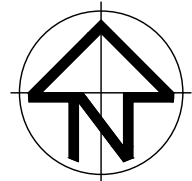
DESIGNED: A.S.	DATE: 25.01.2023	COMPANY: WID	TITLE: 2022-672
DRAWN: J.C.	DATE: 25.01.2023	COMPANY: WID	
CHECKED: I.M.	DATE: 25.01.2023	COMPANY: WID	
APPROVED: A.S.	DATE: 25.01.2023	COMPANY: WID	

TITLE SHEET, DRAWING SCHEDULE AND LOCALITY PLAN "GIFTED ASSET"
DEVELOPMENT OF LOT 1, DP 77846, ET AL, 105 HUNTER STREET, NEWCASTLE

CONSULTANT REFERENCE No.

22425-0

0A	ORIGINAL ISSUE	J.C.	25.01.2023
No.	REVISION DETAILS	DWN	DATE



A1 1:500 ON ORIGINAL 0 5 10 15 20 25m

NOTE. SEWER WORKS TO BE UNDERTAKEN BY AN APPROVED COMPLEX WORKS CONTRACTOR.

HWC TO HAVE 24/7 ACCESS TO SEWER WITHIN THE DEVELOPMENT SITE, THIS IS TO BE INCLUDED IN THE BUILDING MANAGEMENT PLAN (BMP) AND A COPY OF THE BMP IS TO BE ISSUED TO HWC PRIOR TO ENDORSEMENT OF WORKS.

NOTES

- # CONSTRUCT CONNECTION IN ACCORDANCE WITH STANDARD DRAWINGS SEW-1107-V AND SEW-1109
- x - LAY PROPERTY CONNECTION SEWER AT 167%
- MAINTENANCE CHAMBERS AND TERMINAL MAINTENANCE SHAFT TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS SEW-1315, SEW-1317, SEW-1314-V & SEW1316-V
- MAINTENANCE STRUCTURES WITHIN BATTERS- BATTER TO BE MODIFIED TO FACILITATE INSTALLATION OF MAINTENANCE STRUCTURE LID AND SURROUND IN ACCORDANCE WITH STANDARD DRAWING SEW-1308-V
- THE CONTRACTOR IS RESPONSIBLE FOR MANAGING SEWER FLOW DURING THE WORKS TO ENSURE THERE ARE NO SYSTEM SURCHARGES OR ANY UNNECESSARY SERVICE INTERRUPTIONS TO EXISTING CUSTOMERS. THE CONTRACTOR IS REQUIRED TO ADVISE THE SUPERINTENDENT'S REPRESENTATIVE PRIOR TO ANY INTERRUPTIONS TO EXISTING CUSTOMERS. IF NECESSARY THE CONTRACTOR MAY BE REQUIRED TO PROVIDE A TEMPORARY BY-PASS SEWER SYSTEM. THE SUPERINTENDENT'S REPRESENTATIVE MUST APPROVE ANY TEMPORARY BY-PASS SEWER SYSTEM.

NOTES

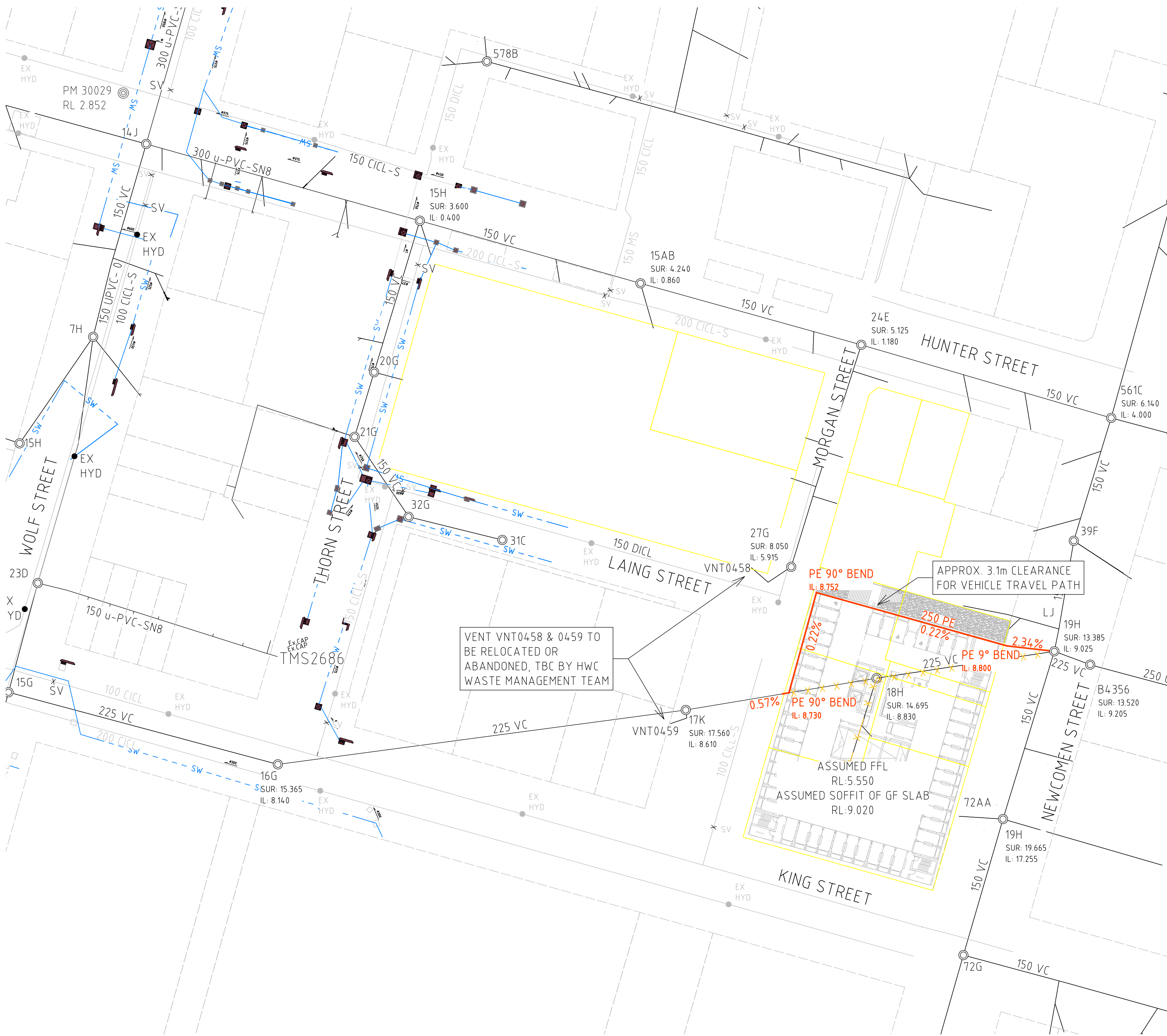
- WORKS MUST BE CARRIED OUT IN ACCORDANCE WITH ALL CONDITIONS SPECIFIED IN THE HWC NOTICE OF FORMAL REQUIREMENTS.
- WORKS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, CONSTRUCTION NOTES, WSA 03 HWC EDITION PART 2 - CONSTRUCTION AND WSA 02 HWC EDITION STANDARDS DRAWINGS.
- CLEARANCES TO OTHER PIPES TO BE CALCULATED FROM COLLAR - REFER WSA-03 HWC EDITION PART 2 - TABLE 5.4.
- KERB LEVEL SHOWN ON THE SECTION IS ADJACENT TO THE ROUTE OF THE PROPOSED SEWER.
- ALL PRODUCTS AND MATERIALS TO BE SELECTED FROM THE HWC APPROVED PRODUCTS AND MATERIALS REGISTER.
- ALL PROPERTY CONNECTIONS TO BE LOCATED 1.0m FROM THE DOWNSTREAM BOUNDARY UNLESS OTHERWISE INDICATED. ALL CONNECTIONS TO BE BURIED INTERFACE METHOD IN ACCORDANCE WITH SEW-1105 AND SEW-1107 WITH:
 - VERTICAL RISER WHERE SEWER DEPTH >1.5m
 - MARKER TAPE (NON-DETECTABLE) LAID RAISED TO THE SURFACE AT EACH JUNCTION.
- LAY PIPE IN ACCORDANCE WITH SUPPORT TYPE AS SHOWN ON SEW-1251-H STANDARD TRENCH DETAILS.
- CONSTRUCT ALL MAINTENANCE STRUCTURES IN ACCORDANCE WITH:
 - ALL RELEVANT SEW-1300-V SERIES DRAWINGS
- FOR SETOUT OF ALL WORKS, OFFSET DIMENSIONS ARE TO TAKE PRECEDENT OVER SURVEY COORDINATES.
- IN THE VICINITY OF THE PROPOSED SEWERMAIN, FILL IS TO BE PLACED PRIOR TO THE LAYING OF THE PIPE. IT IS TO BE PLACED IN LAYERS NOT EXCEEDING 200mm THICKNESS AND THE COMPACTION OF EACH LAYER TO NOT BE LESS THAN 95% OF ITS STANDARD MAXIMUM DRY DENSITY.

SEWER PIPE DATA

PIPE SIZE (MM)	PIPE TYPE	LENGTH (M)	MAINTENANCE STRUCTURE
300	PE	61.60	
BRANCHES			
TOTAL		61.60	

ABANDONED PIPE DATA

PIPE SIZE (mm)	PIPE TYPE	LENGTH (m)	NO. MAINTENANCE STRUCTURES
225	VC	52.86	1
BRANCHES		27.54	-
TOTAL		80.40	1



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ORIGIN OF LEVELS

PM/SSM/BM No. PM 30029 RL 2.852 AHD

SCALE 1:500

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APPROVED: A.S. DATE: 25.01.2023 COMPANY: WID

TITLE: S22-672

PROPOSED SEWER "GIFTED ASSET"
DEVELOPMENT OF LOT 1, DP 77846, ET AL, 105 HUNTER STREET, NEWCASTLE

SIZE: A1 SCALE: 1:500 INDEX No. 86644 DRAWING No. 16404 SHEET 004 REV No. 0A

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION



INFRASTRUCTURE SERVICES for ROUTINE MAJOR WORKS

105 HUNTER STREET, NEWCASTLE, NSW 2300

Prepared by
WALLACE INFRASTRUCTURE DESIGN PTY LTD

DRAWING SCHEDULE

22425-0	TITLE SHEET, DRAWING SCHEDULE AND LOCALITY PLAN
22425-4	PROPOSED SEWER
22425-5	SEWER LONGSECTION

CONDITIONS

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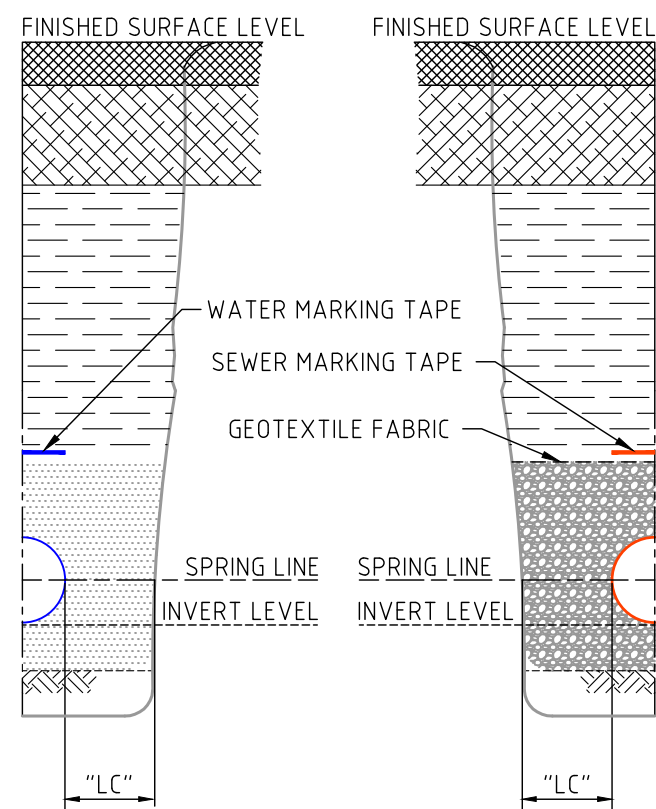
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MINIMUM PIPE COVER

LOCATION	MIN. COVER
NON ROADWAYS -GENERAL	600
-INDUSTRIAL /COMMERCIAL	750
-FOOTPATHS IN MAJOR ROADWAYS (RMS CONTROLLED ROADS)	900
COUNCIL ROADS -MINOR LOCAL ROADS	750
-OTHER COUNCIL ROADS	900
MAJOR ROADWAYS -EMBANKMENTS (RMS CONTROLLED ROADS)	1500
FREEWAYS	1500

WHERE MINIMUM COVER CAN NOT BE ACHIEVED, PROVIDE ALTERNATIVE PROTECTION OF THE PIPELINE



SPRING LINE TRENCH CLEARANCE

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≤150	100
>150 - ≤300	150
>300 - ≤450	200
>450 - ≤900	300
>900 - ≤1500	350

TRENCH WIDTH SHALL BE SUFFICIENT TO SAFELY LAY PIPE AND COMPACT THE SIDE SUPPORT ZONE.

TYPICAL WATER EMBEDMENT AND TRENCHFILL

FOR MORE DETAIL REFER TO WAT-1201, 1202 AND 1203 NOT TO SCALE

MINIMUM PIPE COVER

LOCATION	MIN. COVER
PRIVATE PROPERTY NON VEHICULAR NEW DEVELOPMENTS	600
PRIVATE PROPERTY NON VEHICULAR EXISTING DEVELOPMENTS	450
PRIVATE PROPERTY VEHICULAR	750
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UNSEALED ROADS	1200
ARTERIAL ROADS	1200-1500 (AS PER DESIGN)

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LOCALITY PLAN

NTS

LEGEND

GAS	----	G
TELSTRA	----	T
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STORMWATER	----	SW
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PROPOSED LOT BOUNDARIES	----	
ADJOINING LOT BOUNDARIES	----	
FENCE	----	

EXISTING SEWER	----	
EXISTING WATER	----	
PROPOSED SEWER	----	
PROPOSED WATER	----	
FUTURE WATER/SEWER	----	
EXISTING VEGETATION	○ ○ ○	
BUILDING FOOTPRINT	□	
RETAINING WALL	▨	
ABANDONED SERVICE	✕ ✕ ✕ ✕ ✕ ✕ ✕ ✕ ✕	

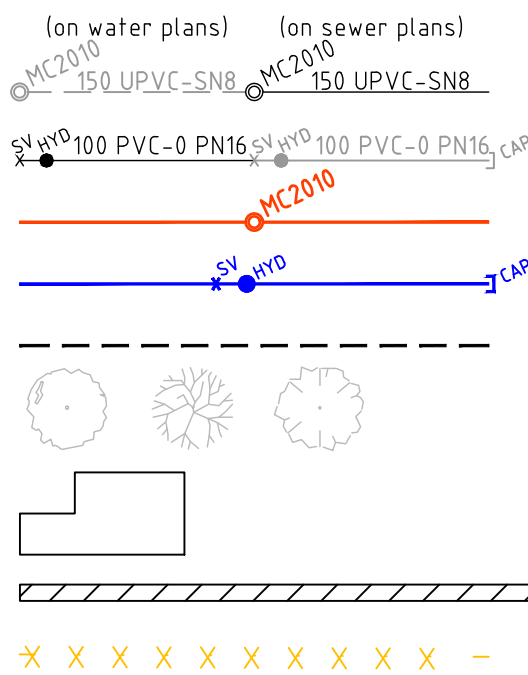


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UTILITY (EXISTING OR PROPOSED SERVICE)	MINIMUM HORIZONTAL CLEARANCE mm NEW MAIN SIZE		MINIMUM VERTICAL CLEARANCE mm
	≤200	>200	
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TABLE 5.4 CLEARANCES BETWEEN SEWER MAINS AND UNDER GROUND SERVICES			
UTILITY (EXISTING OR PROPOSED SERVICE)	MINIMUM HORIZONTAL CLEARANCE MM NEW MAIN SIZE		MINIMUM VERTICAL CLEACANCE MM
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- When the sewer is at the minimum vertical clearance below the water main (500 mm) maintain a minimum horizontal clearance of 1000 mm. this minimum horizontal clearance can be progressively reduced to 600 mm as the vertical clearance increases to 750 mm.
- Clearance from kerbs shall be measured from the nearest point of the kerb.

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

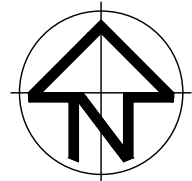
CONSULTANT DETAILS:
**WALLACE INFRASTRUCTURE
DESIGN PTY LTD**
PART OF WALLACE DESIGN GROUP PTY LTD
ABN: 99 632 518 739
SUITE 10, 87 KING STREET, WARNERS BAY, NSW 2282
PO BOX 850, WARNERS BAY, NSW 2282
phone: (02) 49 294 109
email: mail@wdsgroup.com.au
web: www.wdsgroup.com.au



DESIGNED: A.S.	DATE: 25.01.2023	COMPANY: WID	TITLE: 2022-672
DRAWN: J.C.	DATE: 25.01.2023	COMPANY: WID	
CHECKED: I.M.	DATE: 25.01.2023	COMPANY: WID	
APPROVED: A.S.	DATE: 25.01.2023	COMPANY: WID	

TITLE SHEET, DRAWING SCHEDULE AND LOCALITY PLAN
DEVELOPMENT OF LOT 1, DP 77846, ET AL, 105 HUNTER STREET, NEWCASTLE

0A	ORIGINAL ISSUE	J.C.	XX.XX.XX	CONSULTANT REFERENCE No.	22425-0	SIZE: A1	SCALE: NTS	INDEX No.	DRAWING No.	SHEET 001	REV No. 0A
No.	REVISION DETAILS	DWN	DATE								



A1 1:500 ON ORIGINAL 0 5 10 15 20 25m

NOTE. SEWER WORKS TO BE UNDERTAKEN BY AN APPROVED MAJOR WORKS CONTRACTOR.

PRIVATE PLUMBER TO RECONNECT EXISTING HOUSE DRAINAGE AT NO COST TO HWC. NOTE, ALL DRAINAGE IS TO BE CONTAINED WITHIN THE LOT THAT IT IS SERVICING.

NOTES

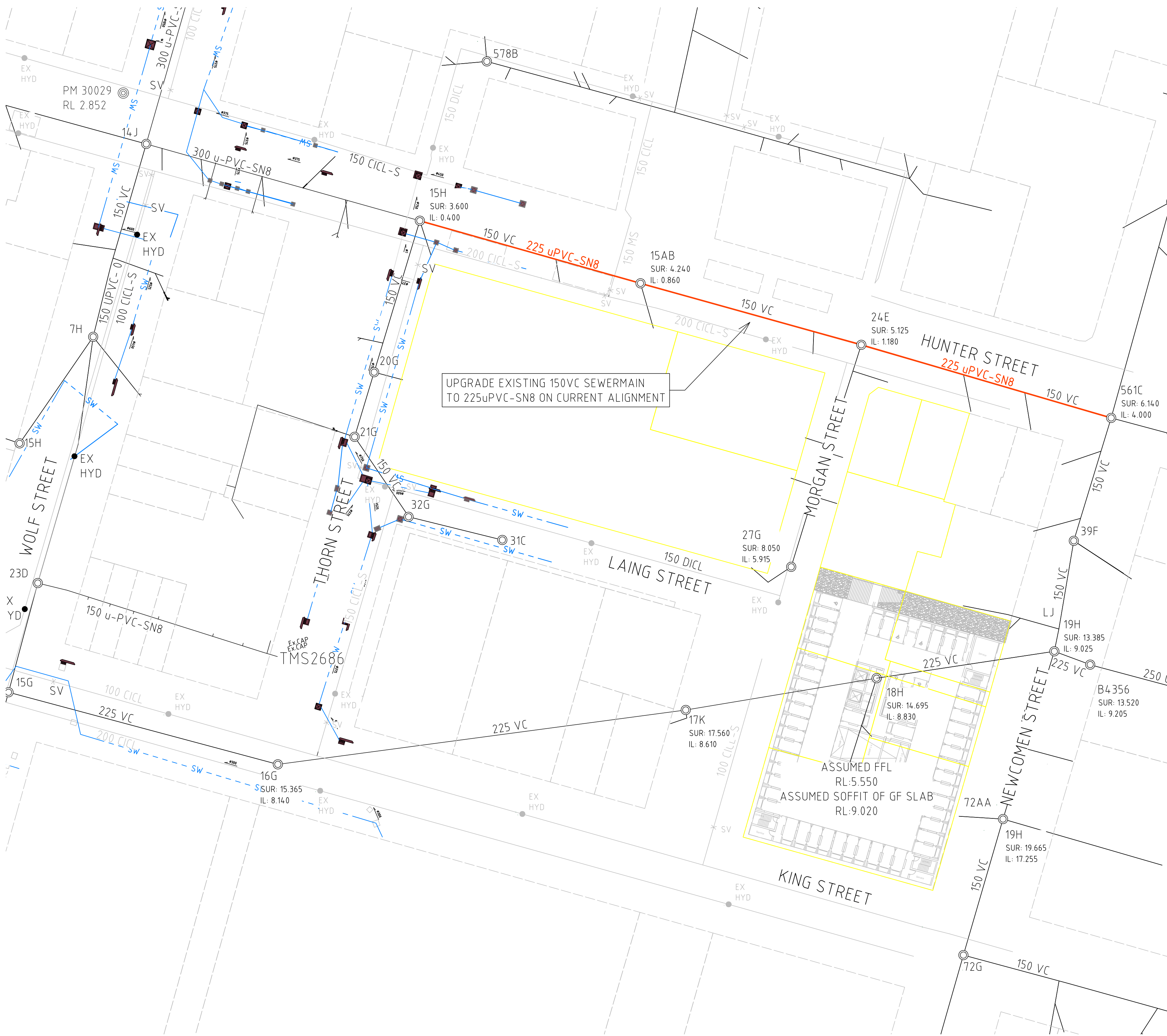
- # CONSTRUCT CONNECTION IN ACCORDANCE WITH STANDARD DRAWINGS SEW-1107-V AND SEW-1109
- x - LAY PROPERTY CONNECTION SEWER AT 167%
- MAINTENANCE CHAMBERS AND TERMINAL MAINTENANCE SHAFT TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS SEW-1315, SEW-1317, SEW-1314-V & SEW1316-V
- MAINTENANCE STRUCTURES WITHIN BATTERS- BATTER TO BE MODIFIED TO FACILITATE INSTALLATION OF MAINTENANCE STRUCTURE LID AND SURROUND IN ACCORDANCE WITH STANDARD DRAWING SEW-1308-V
- THE CONTRACTOR IS RESPONSIBLE FOR MANAGING SEWER FLOW DURING THE WORKS TO ENSURE THERE ARE NO SYSTEM SURCHARGES OR ANY UNNECESSARY SERVICE INTERRUPTIONS TO EXISTING CUSTOMERS. THE CONTRACTOR IS REQUIRED TO ADVISE THE SUPERINTENDENT'S REPRESENTATIVE PRIOR TO ANY INTERRUPTIONS TO EXISTING CUSTOMERS. IF NECESSARY THE CONTRACTOR MAY BE REQUIRED TO PROVIDE A TEMPORARY BY-PASS SEWER SYSTEM. THE SUPERINTENDENT'S REPRESENTATIVE MUST APPROVE ANY TEMPORARY BY-PASS SEWER SYSTEM.

NOTES

- WORKS MUST BE CARRIED OUT IN ACCORDANCE WITH ALL CONDITIONS SPECIFIED IN THE HWC NOTICE OF FORMAL REQUIREMENTS.
- WORKS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, CONSTRUCTION NOTES, WSA 03 HWC EDITION PART 2 - CONSTRUCTION AND WSA 02 HWC EDITION STANDARDS DRAWINGS.
- CLEARANCES TO OTHER PIPES TO BE CALCULATED FROM COLLAR - REFER WSA-03 HWC EDITION PART 2 - TABLE 5.4.
- KERB LEVEL SHOWN ON THE SECTION IS ADJACENT TO THE ROUTE OF THE PROPOSED SEWER.
- ALL PRODUCTS AND MATERIALS TO BE SELECTED FROM THE HWC APPROVED PRODUCTS AND MATERIALS REGISTER.
- ALL PROPERTY CONNECTIONS TO BE LOCATED 1.0m FROM THE DOWNSTREAM BOUNDARY UNLESS OTHERWISE INDICATED. ALL CONNECTIONS TO BE BURIED INTERFACE METHOD IN ACCORDANCE WITH SEW-1105 AND SEW-1107 WITH:
 - VERTICAL RISER WHERE SEWER DEPTH >1.5m
 - MARKER TAPE (NON-DETECTABLE) LAID RAISED TO THE SURFACE AT EACH JUNCTION.
- LAY PIPE IN ACCORDANCE WITH SUPPORT TYPE AS SHOWN ON SEW-1251-H STANDARD TRENCH DETAILS.
- CONSTRUCT ALL MAINTENANCE STRUCTURES IN ACCORDANCE WITH:
 - ALL RELEVANT SEW-1300-V SERIES DRAWINGS
- FOR SETOUT OF ALL WORKS, OFFSET DIMENSIONS ARE TO TAKE PRECEDENT OVER SURVEY COORDINATES.
- IN THE VICINITY OF THE PROPOSED SEWERMAIN, FILL IS TO BE PLACED PRIOR TO THE LAYING OF THE PIPE. IT IS TO BE PLACED IN LAYERS NOT EXCEEDING 200mm THICKNESS AND THE COMPACTION OF EACH LAYER TO NOT BE LESS THAN 95% OF ITS STANDARD MAXIMUM DRY DENSITY.

SEWER PIPE DATA

PIPE SIZE (MM)	PIPE TYPE	LENGTH (M)	MAINTENANCE STRUCTURE
225	UPVC-SN8	143.50	-
BRANCHES			
TOTAL		143.50	-



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ORIGIN OF LEVELS

PM/SSM/BM No. PM 30029 RL 2.852 AHD

SCALE 1:500

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WALLACE INFRASTRUCTURE DESIGN PTY LTD
PART OF WALLACE DESIGN GROUP PTY LTD
ABN: 99 632 518 739
SUITE 10, 87 KING STREET, WARNERS BAY, NSW 2282
PO BOX 850, WARNERS BAY, NSW 2282
phone: (02) 49 294 109
email: mail@wldsgroup.com.au
web: www.wldsgroup.com.au



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TITLE: S22-672

PROPOSED SEWER DEVELOPMENT OF LOT 1, DP 77846, ET AL, 105 HUNTER STREET, NEWCASTLE

SIZE: A1 SCALE: 1:500 INDEX No. DRAWING No. SHEET 004 REV No. 0A

PRELIMINARY ISSUE
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VERSION 4

No.	REVISION DETAILS	DWN	DATE
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CONSULTANT REFERENCE No. 22425-4