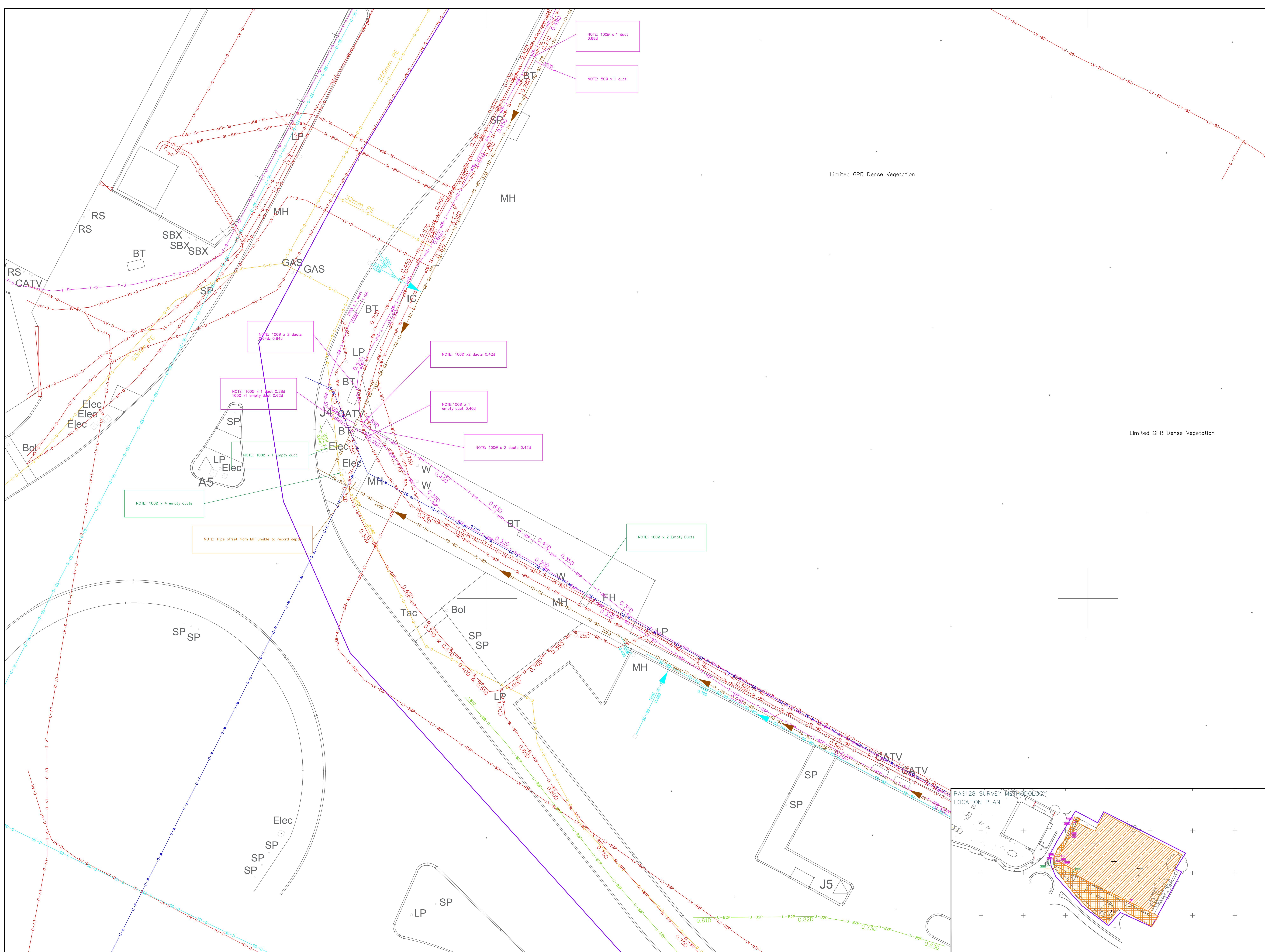
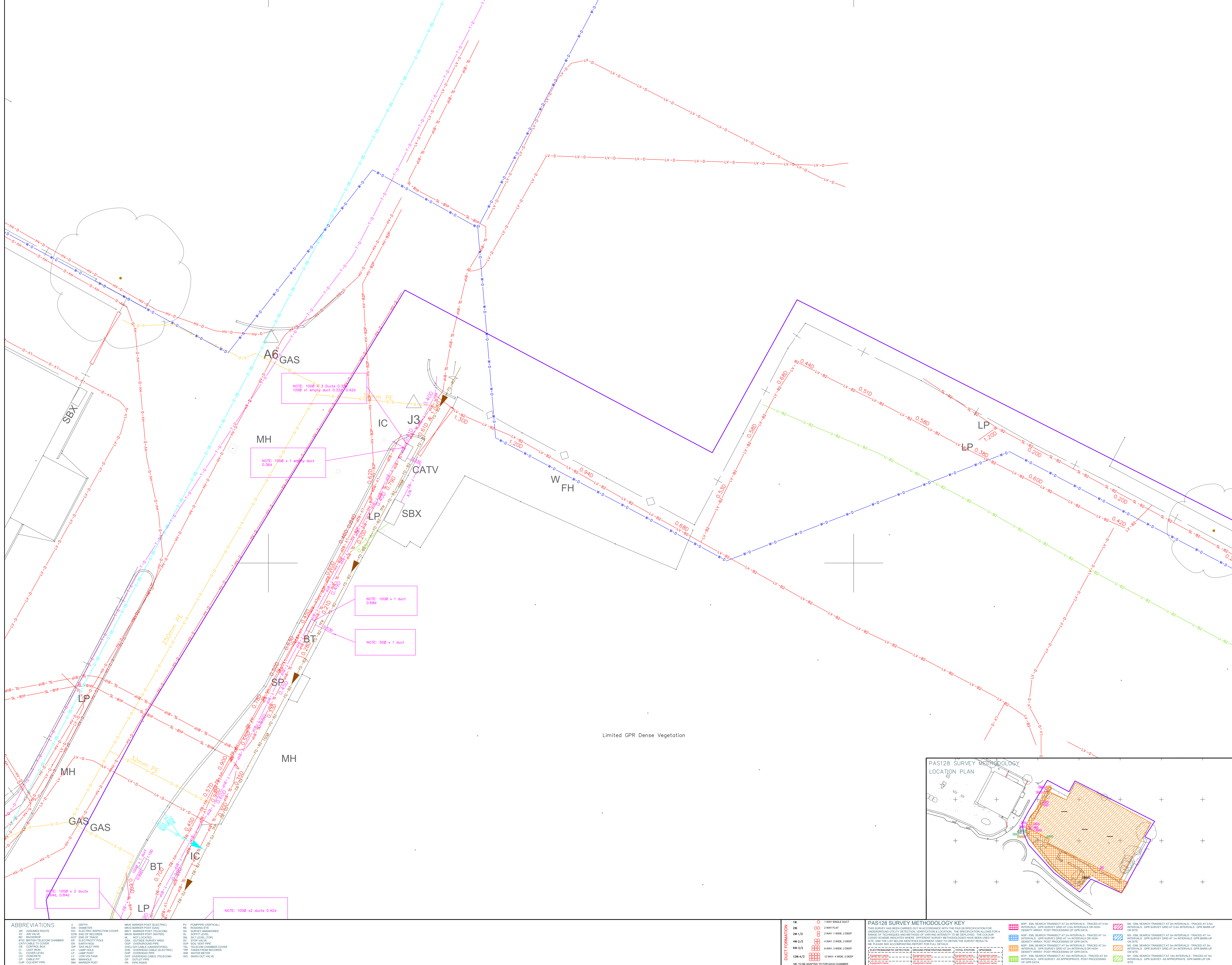
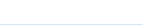
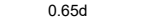
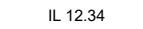
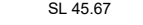
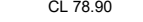
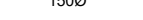


[illegible]

[illegible]

Station Listing

SUB-SURFACE KEY

COMBING/HEATING AND POWER	
DIRECT HEATING	
DRAINAGE COMBINED *	
DRAINAGE FOLI *	
DRAINAGE DAMAGED	
DRAINAGE UNIDENTIFIED	
↑ FLOW DIRECTION INDICATED BY ARROW (V OR F IF KNOWN)	
ELECTRIC	
ELECTRIC LV	
ELECTRIC HV	
ELECTRIC STREET LIGHTING	
GAS	
OIL/UL PIPELINE	
STREET FURNITURE CABLES	
TELEPHONE	
TELEPHONE - FIBRE OPTIC	
TELEPHONE - RJ	
TELEPHONE - VIRSON MEDIA	
TRAFFIC CONTROL	
WATER	
UNIDENTIFIED UTILITY	
UNIDENTIFIED CABLES	
UNIDENTIFIED EMPTY DUCT	
GPS LINEAR FEATURE	
GPS AREA ANOMALY	
GPS AREA ANOMALY - REBAR	
CHAMBER EXTENTS	
MEASURED DEPTH SOIL TO PIPE/CABLE/DUCT	
INVERT LEVEL OF PIPE/CABLE/DUCT (TO OS DATUM)	
SOFTT LEVEL OF PIPE/CABLE/DUCT (TO OS DATUM)	
INVERT LEVEL OF WASTEWATER CHAMBER (TO OS DATUM)	
DIAMETER OF PIPE/DUCT IN MILLIMETRES	
[E.G. -125mm GROUND LEVEL]	
AREA INHABITED TO BE SURVEYED DUE TO SURFACE OBSTRUCTIONS, VEGETATION OR LACK OF ACCESS	
TRENCH SCAR / SURFACE SCAR	
EXTENT OF SURVEY - BOUNDARY	

HANDED LAYER
 LAYER

UTILITY CONFIDENCE LEVELS (Listed from High to Low)

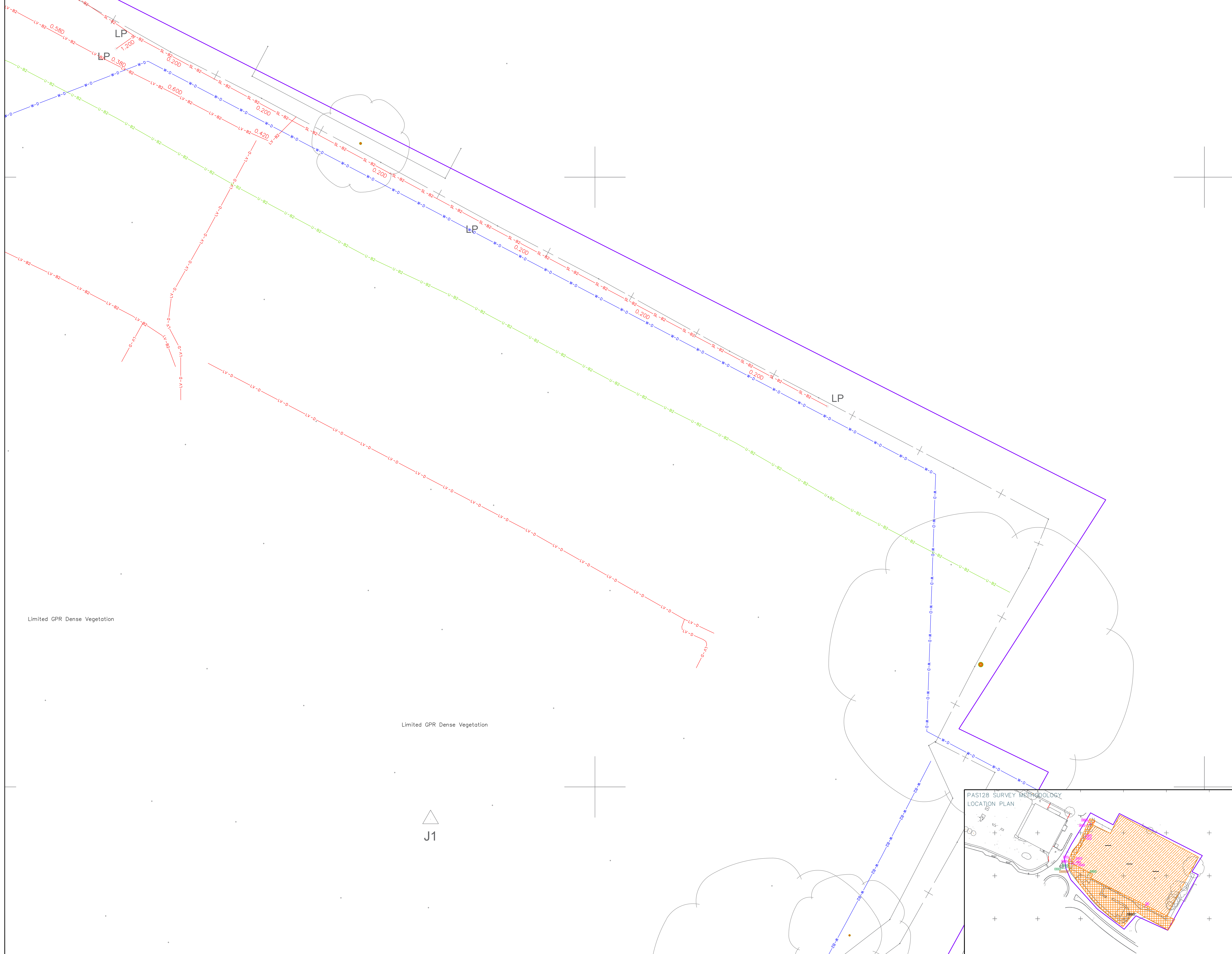
(A)	HORIZONTAL AND VERTICAL POSITION VERIFIED VISUALLY (Accuracy: Horizontal ±25mm; Vertical ±30mm)
(B)(P)	HORIZONTAL POSITION DETECTED VIA PHOTOGRAPHED BY MULTIPLE METHODS WITH POST-PROCESSING OF GPS DATA (Estimated Accuracy: ±150mm OR 0.15% of detected depth)
(B)(V)	HORIZONTAL AND VERTICAL POSITION DETECTED BY MULTIPLE METHODS AND VERIFIED VISUALLY (Estimated Accuracy: ±150mm OR 0.15% of detected depth)
(C)	HORIZONTAL AND VERTICAL POSITION DETECTED VIA POST-PROCESSED GPS (Estimated Accuracy: ±250mm OR 0.48% of detected depth)
(D)	HORIZONTAL AND VERTICAL POSITION DETECTED BY A SINGLE METHOD (Estimated Accuracy: ±250mm OR 0.48% of detected depth)
(B)(P)	HORIZONTAL POSITION DETECTED VIA POST-PROCESSED GPS (Estimated Accuracy: ±500mm in the horizontal; Depth is unverified)
(B)(V)	HORIZONTAL POSITION DETECTED BY A SINGLE METHOD (Estimated Accuracy: ±500mm in the horizontal; Depth is unverified)
(C)	ROUTE TRANSFERRED FROM UTILITY ASSET PLANS AND CORRELATED TO VISUAL INDICATORS AND SURFACE FEATURES (Accuracy unknown)
(D)	ROUTE TRANSFERRED FROM UTILITY ASSET PLANS (Accuracy unknown)

Layout Key

(2)	

-	xx/xx/xxxx		xx
Rev	Date	Description	Check

    			
Mendham Hills, 58-60 Hillside Road, Fordsburg, Chichester WA-63G Tel: 01828 734473 Email: sales@powersuk.com www.powersuk.com			
Client REDSUN_DEVELOPMENTS LOCATION_OF_CLIENT_OFFICE			
Site SOUTH_BOUNDARY_ROAD KNOWSLEY_INDUSTRIAL_PARK KNOWSLEY L39_7YE			
Title UNDERGROUND_UTILITY_DETECTION_SURVEY			
Survey by	CS	Drawn by	CS
Check by	PB	Date	10/06/22
Scale	[A0 Sheet] 1:100	DWG Reference/number 5612/UGS001	Status FINAL
Project/Job No		5612	Revision REV_ID

[illegible]

Station Listing

SUB-SURFACE KEY

COMBINED HEATING AND POWER	
DISTRICT HEATING	
DRAINAGE COMBINED +	
DRAINAGE "COLL"	
DRAINAGE "SURFACE"	
DRAINAGE UNIDENTIFIED	
7 FLOW (CHECKER IDENTIFIED BY ARROW) (3) or (15 F) (KNOWN)	
ELECTRIC	
ELECTRIC LV	
ELECTRIC HV	
ELECTRIC STREET LIGHTING	
GAS	
OUT-PIPE PIPELINE	
STREET FURNITURE CABLES	
TELEPHONE	
TELEPHONE - FIBRE OPTIC	
TELEPHONE - BT	
TELEPHONE - VISION MEDIA	
TRAFFIC CONTROL	
WATER	
UNIDENTIFIED UTILITY	
UNIDENTIFIED TUBES	
UNIDENTIFIED BARRIER CUTOFF	
GN-LEVEL AREA ANALY	
GN-AREA ANALY - REMAN	
CHAMBER EXTENTS	
MEASURED BENT BOL TO PIPE/CABLE/CUT	
POVERT LEVEL OF PIPE/CABLE/CUT (TO OS DATUM)	
SOFT LEVEL OF PIPE/CABLE/CUT (TO OS DATUM)	
SOFT LEVEL OF INSPECTION CHAMBER (TO OS DATUM)	
DIAMETER OF PIPE/CUT IN MILLIMETERS	
[BOL - BOLD GROUND LEVEL]	
AREA UNABLE TO BE SURVEYED DUE TO SURFACE OBSTRUCTIONS, VEGETATION OR LACK OF ACCESS	
TRENCH SCALP / SURFACE SCARY	
EXTENT OF SURVEY - BOUNDARY	

WITH A2000 CONFORMANCE
 LEVELS

UTILITY CONFIDENCE LEVELS (Listed from High to Low)

- (A1) HORIZONTAL AND VERTICAL POSITION VERIFIED VISUALLY
(Accuracy: Horizontal 200mm) Vertical 200mm)
- (B1P) HORIZONTAL AND VERTICAL POSITION DETECTED BY MULTIPLE METHODS
AND PROCESSING OF GPS DATA
(Estimated Accuracy: ±150mm OR ±15% of detected depth)
- (B1) HORIZONTAL AND VERTICAL POSITION DETECTED BY MULTIPLE METHODS
(Estimated Accuracy: ±150mm OR ±15% of detected depth)
- (B2) HORIZONTAL AND VERTICAL POSITION DETECTED VIA POST-PROCESSED GPS
(Estimated Accuracy: ±200mm OR ±40% of detected depth)
- (B2) HORIZONTAL AND VERTICAL POSITION DETECTED BY A SINGLE METHOD
(Estimated Accuracy: ±200mm OR ±40% of detected depth)
- (B3P) HORIZONTAL POSITION DETECTED VIA POST-PROCESSED GPS
(Estimated Accuracy: ±200mm in the Horizontal; Depth is uncalculated)
- (B3) HORIZONTAL POSITION DETECTED BY A SINGLE METHOD
(Estimated Accuracy: ±200mm in the Horizontal; Depth is uncalculated)
- (C) ROUTE TRANSFERRED FROM UTILITY ASSET PLANS AND CORRELATED TO VISUAL INDICATORS AND SURFACE FEATURES (Accuracy: Unverified)
- (D) ROUTE TRANSFERRED FROM UTILITY ASSET PLANS (Accuracy: Unverified)

Layout Key

	(3)

-	xx/xx/xxxx		xx
Rev	Date	Description	Check

The Powers logo features a stylized blue 'P' icon to the left of the word 'powers' in a large, bold, blue sans-serif font. Below 'powers' is the text 'Integrated Survey Partner' in a smaller, blue sans-serif font. Below this are several accreditation logos: Constructionline (a yellow square with a 'P' and the text 'Constructionline' and 'powered by' below it), CHAS (a circular logo with 'CHAS' and 'Construction Quality Assurance' around it), ICCS Approved (a logo with 'ICCS' and 'Approved' and 'Integrated Construction Quality Standard' below it), and The Survey Awards (a red circular logo with 'THE SURVEY AWARDS' and '2014' below it). At the bottom of the Powers section are six small circular logos for various industry associations: CIMA, CIMA, CIMA, CIMA, CIMA, and CIMA.

Client	REDSUN_DEVELOPMENTS LOCATION_OF_CLIENT_OFFICE
Site	SOUTH_BOUNDARY_ROAD KNOWSLEY_INDUSTRIAL_PARK KNOWSLEY L33_7YE
Title	UNDERGROUND UTILITY DETECTION SURVEY

Survey by	CS	Drawn by	CS
Check by	PB	Date	10/06/22
Scale	[A0 Sheet]	DWG Reference/number*	Status
1:100		5612/UGS001	FINAL
Project/Job No	5612		Revision REV_ID

[illegible]

DUCT FORMATION	1WAY SINGLE DUCT		PAS128 SURVEY METHODOLOGY KEY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	2W	2WAY FLAT	THIS SURVEY HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE PAS128 SPECIFICATION FOR UNDERGROUND UTILITY DETECTION, VERIFICATION & LOCATION. THE SPECIFICATION ALLOWS FOR THE USE OF A RANGE OF DIFFERENT SURVEY METHODOLOGIES TO OBTAIN THE BEST POSSIBLE RESULTS. THE SCHEME INDICATES WHERE DIFFERENT SURVEY METHODOLOGIES HAVE BEEN USED ON THE SCHEME. THE KEY BELOW EXPLAINS THE SURVEY METHODOLOGIES USED TO OBTAIN THE SURVEY RESULTS. SEE PLEASE SEE ACCOMPANYING REPORT FOR FULL DETAILS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
2W1/2	2WAY 1 WIDE, 2 DEEP		<table> <tr> <th>UTILITY</th><th>ELECTROMAGNETIC DETECTION</th><th>GROUND PENETRATING RADAR</th><th>TOTAL STATION</th><th>GIS/SCANS</th></tr> <tr><td>1</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>2</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>3</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>4</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>5</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>6</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>7</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>8</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>9</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>10</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>11</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>12</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>13</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>14</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>15</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>16</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>17</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>18</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>19</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>20</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>21</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>22</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>23</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>24</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>25</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>26</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>27</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>28</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>29</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>30</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>31</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>32</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>33</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>34</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>35</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>36</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>37</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>38</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>39</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>40</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>41</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>42</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>43</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>44</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>45</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>46</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>47</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>48</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>49</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>50</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>51</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>52</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>53</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>54</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>55</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>56</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>57</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>58</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>59</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>60</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>61</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>62</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>63</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>64</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>65</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>66</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>67</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>68</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>69</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>70</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>71</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>72</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>73</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>74</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>75</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>76</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>77</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>78</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>79</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>80</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>81</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>82</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>83</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>84</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>85</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>86</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>87</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>88</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>89</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>90</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>91</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>92</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>93</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>94</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>95</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> <tr><td>96</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr> 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