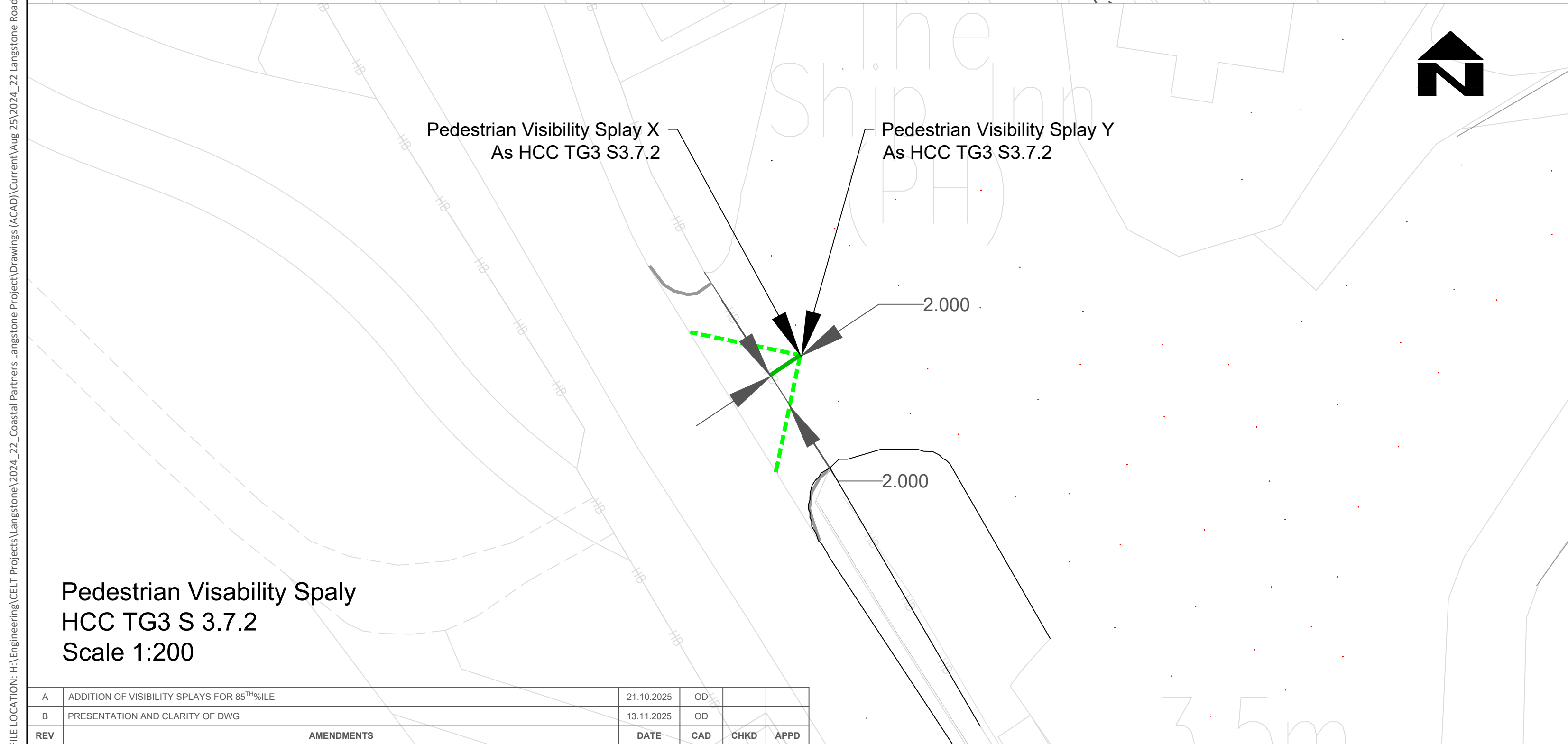
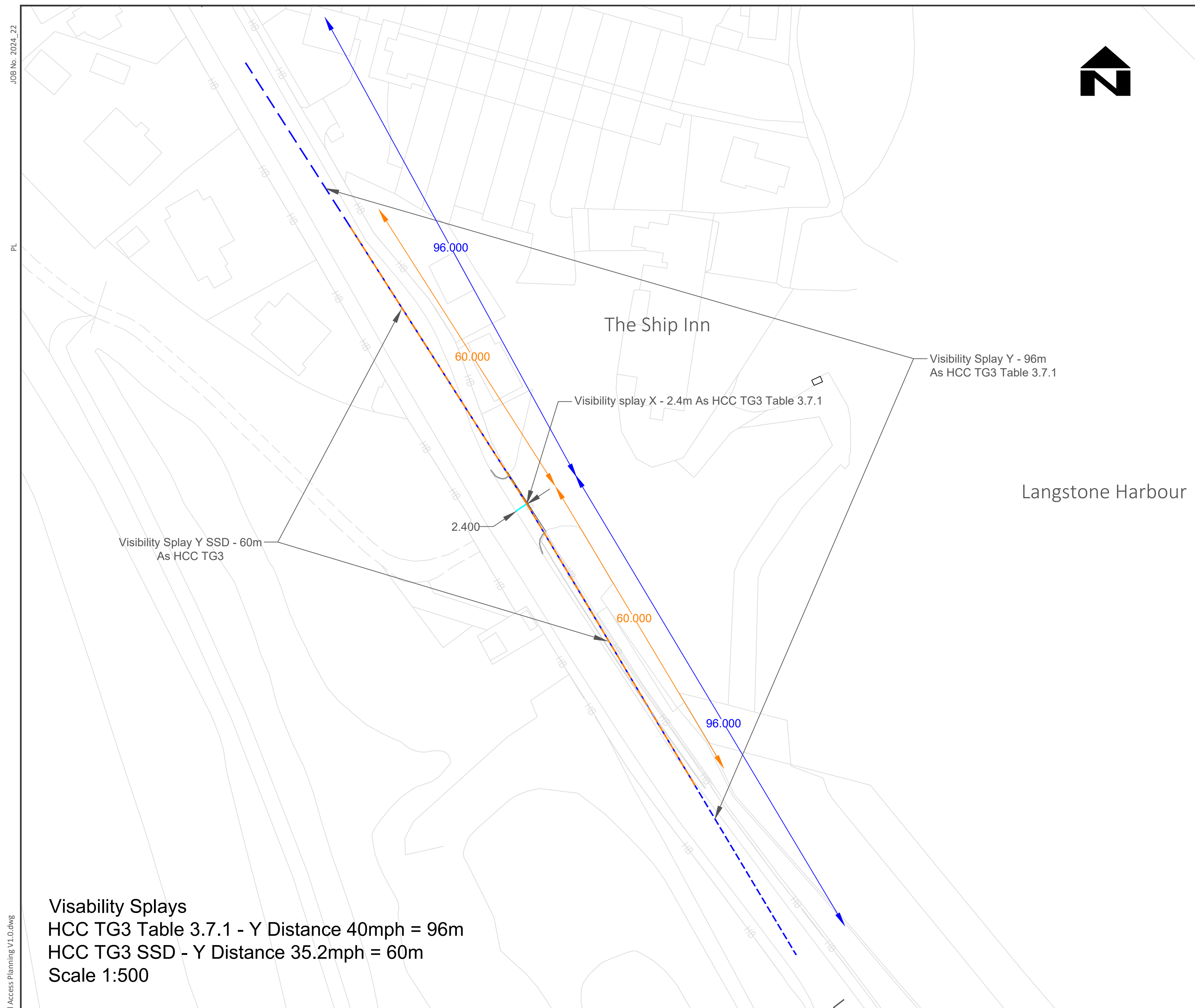




Speed Limit (mph)	20	30	40	50	60
X Distance	2.0m	2.0m	2.4m	2.4m	2.4m
Y Distance	25m	43m	96m	160m	215m

Stopping Sight Distance Calculator

Formula for calculating SSD (from Manual for Streets 2): $SSD = vt + v^2/2(d+a)$
 v = Speed of vehicle (m/s)
 t = driver perception-reaction time (seconds)
 d = deceleration rate (m/s²)
 a = longitudinal gradient (%)

Fill in the white boxes only

Enter the vehicle 85%ile speed below

35.2 mph	15.736 m/s
----------	------------

$v =$ 15.736 m/s

$t =$ 1 s (taken from MStS table 10.1)

$d =$ 3.679 Vehicle type: All vehicles (<64kph)

$a =$ 0 +ve for upgrades and -ve for downgrades

Based on Table 10.1 MStS2

Design speed	Vehicle Type	Reaction Time t (s)	Deceleration rate d (m/s²) (e factor x 9.81)	Standard
60kph and below	Light vehicles only	1.5	0.450 g	MStS2
	Bus(es) and/or HGV's greater than 5% of the traffic	1.5	0.375 g	MStS2
Above 60kph	All vehicles (<64kph)	2	0.375 g (Absolute minimum)	CD 109
	All vehicles (>64kph)	2	0.250 g (Desirable minimum)	CD 109

SSD = 57 m

SSD adjusted for bonnet length (MStS only) = 60 m (SSD + 2.4m)

Conversions

mph 35.2	to kph 56.6
kph 	to mph 0.0

NOTE: The adjustment for the bonnet length is only required on the MStS SSD as the MStS formula is calculated from drivers eye. To avoid a collision, the bonnet length must be added.

Site ID: 000000045972 Site: (S1) 45972 (S1) A3023 Langstone Rd SE of Ship Inn, Hayling Island Node: HANTS_VIVACITY					
	ADT	Average Speed	Speed 85%	% HGV	Coverage
2025	23,592	27.8	34.4	0.9%	79.1%
2024	23,336	28.5	35.2	1.0%	75.1%
2023	25,318	-	-	1.1%	67.1%

NOTES FOR VISIBILITY SPLAY

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

CELT Civil Engineering
& Landscape Team

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