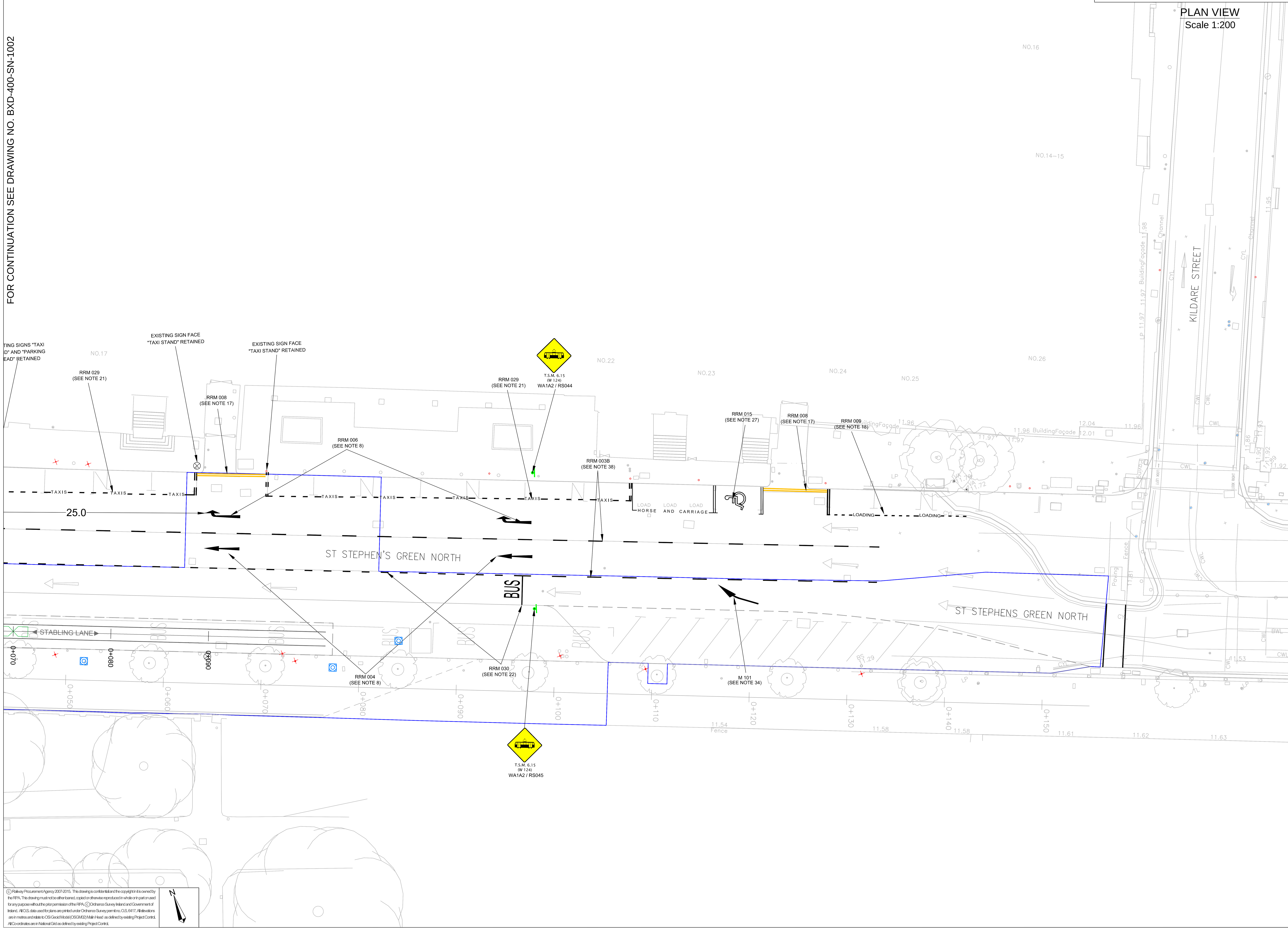
Information Only. For Review

FOR CONSTRUCTION

Q03 CHANGES DUE TO TII DRAWING CONTROL COMMENTS



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LEGEND:

TRAFFIC SIGNS
- TRAFFIC SIGNS NEW POLE & SIGN INSTALLED
- TRAFFIC SIGNS MOUNTED ON OCS POST
- TRAFFIC SIGNS MOUNTED ON PUBLIC LIGHTING POLE
- TRAFFIC SIGNS MOUNTED ON SIGNAL POLE
- TRAFFIC SIGNS MOUNTED ON EXISTING POLE
- ILLUMINATED BOLLARD AS PER TSM 1.5.40
- FINGERPOST - WAY FINDER

TRAM SIGNS
- TRAM SIGNS NEW POLE & SIGN INSTALLED
- TRAM SIGNS MOUNTED ON OCS POST
- TRAM SIGNS MOUNTED ON PUBLIC LIGHTING POLE
- TRAM SIGNS MOUNTED ON SIGNAL POLE
- EXISTING SIGN REMOVED
- EXISTING SIGN RETAINED

NOTES:

1. ALL REFERENCES TO THE DEPARTMENT OF TRANSPORT TRAFFIC SIGNS MANUAL ARE ABBREVIATED TO T.S.M.
2. ALL REFERENCES TO THE TRAFFIC REGULATIONS AND SIGNAGE FOR THE ON-STREET RUNNING OF LIGHT RAIL VEHICLES AND ASSOCIATED STATUTORY INSTRUMENTS GUIDANCE NOTES ARE ABBREVIATED TO L.R.G. (LIGHT RAIL GUIDANCE).
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION IN APPENDIX 12/1, 12/3 AND CHAPTER 10 OF TRAFFIC SIGN MANUAL.
4. ALL TRAFFIC SIGNS SHOULD BE INSTALLED WITH A MINIMUM CLEARANCE OF 450mm DISTANCE FROM THE OUTSIDE EDGE OF THE SIGN FACE TO THE KERB.
5. ALL TRAFFIC SIGNS SHOULD BE INSTALLED AS TO ENSURE A MINIMUM HEAD CLEARANCE OF 2.1m UNLESS SPECIFIED OTHERWISE.
6. STOP LINE FOR USE AT THE SIGNAL CONTROLLED JUNCTIONS AND PRIORITY JUNCTIONS SHALL BE WHITE 200mm WIDE CONTINUOUS LINE (T.S.M. 7.2.2, RRM 017).
7. CENTRE LINE OF ROAD AND CENTRE LINE FOR STOP LINE ASSOCIATED TO A TWO LANE ROAD, SHALL BE 100mm WIDE (RRM 001) CONTINUOUS WHITE LINE. A MINIMUM LENGTH OF 20m FOR USE AT SIGNAL CONTROLLED JUNCTIONS AND PRIORITY JUNCTIONS. THE LENGTH MAY BE REDUCED TO 8m OR 2m DEPENDING ON SITE CONDITIONS OR IF THE ROAD IS LESS THAN 5.3m WIDE. (T.S.M. 7.12.4, T.S.M. 7.11.2 Fig. 7.43, Fig. 7.35, Fig. 7.36).
8. LANE INDICATION ARROWS (T.S.M. 7.5.12, 7.5.14, Fig. 7.24), STRAIGHT AHEAD ARROW - RRM 004, LEFT TURN ARROW - RRM 005, RIGHT TURN ARROW - RRM 006, AHEAD AND LEFT ARROW - M124, AHEAD AND RIGHT ARROW - M125, TURN LEFT OR RIGHT - M126.
9. CHEVRON AND HATCH MARKING - WHITE 100mm WIDE CONTINUOUS BOUNDARY LINE AND 150mm WIDE HATCH LINES WITH 3000mm SPACING. BROKEN WHITE 100mm WIDE BOUNDARY LINE 3000m MARK AND 1000m GAP. WARNING HATCHED AREA YELLOW 100mm WIDE BROKEN LINE BOUNDARY WITH 2000mm MARK AND 2000mm GAP AND HATCH LINES 200mm WIDE AT 2000mm APART (T.S.M. 7.4.9, Fig. 7.16, Fig. 7.17, Fig. 7.19, RRM 021 & RRM 002D).
10. YELLOW BOX JUNCTION CARRIAGEWAY MARKINGS (T.S.M. 7.9, RRM 020) WITH 200mm WIDE CONTINUOUS BOUNDARY LINE AND YELLOW 150mm WIDE CONTINUOUS CROSS HATCHING LINES AT 2000mm SPACING.
11. YELLOW SWEPT PATH MARKING WITH 100mm DIA AND 1500mm SPACING (T.S.M. 7.7.26, M 110).
12. TRAM STOP LINE, 200mm WIDE WHITE MARKING (T.S.M. 7.2.12, RRM 031).
13. BROKEN EDGE OF CARRIAGEWAY LINE - YELLOW 100mm WIDE BROKEN LINE WITH 2000mm MARK AND 2000mm GAP (T.S.M. 7.3.54, RRM 025).
14. LANA TRAM WHITE WORDED MARKING, 1600mm HEIGHT WITH 1000mm GAP BETWEEN LANA AND TRAM (T.S.M. 7.7.24, M 109).
15. TRAM ONLY SECTION OF THE CARRIAGEWAY IS INDICATED BY A 250mm WIDE CONTINUOUS WHITE LINE TO PREVENT ROAD VEHICLES FROM ENTERING THE TRAMWAY (T.S.M. 7.7.23, RRM 032).
16. CENTRE LINE FOR TWO LANES OF TRAFFIC WITH SPEED LIMIT LESS THAN OR EQUAL TO 60km/h - 100mm WIDE INTERMITTENT WHITE LINE 3000mm MARK, 3000mm GAP (T.S.M. Table 7.3.15, TABLE 7.1, RRM 002B).
17. DOUBLE YELLOW LINES - YELLOW CONTINUOUS 100mm WIDE A CLEAR 100mm SPACE BETWEEN EACH LINE, WITH THE NEAREST LINE 300mm FROM KERB TO PROHIBIT PARKING (T.S.M. 7.6.4, RRM 008).
18. LOADING BAY MARKINGS - 100mm WIDE WHITE MARKING WITH 450mm MARK AND 450mm GAP PARALLEL TO THE KERB AND TWO 100mm CONTINUOUS WHITE LINES PERPENDICULAR TO THE KERB AT THE TERMINAL POINTS. THE WORDING 'LOADING' SHALL APPEAR AT LEAST ONCE WITHIN THE BAY (T.S.M. 7.7.14, RRM 009).
19. YIELD ROAD MARKINGS - WHITE 200mm WIDE, 1000mm MARK AND 1000mm GAP MARKINGS AND TRIANGULAR YIELD MARKING FOR USE WITH YIELD SIGN (T.S.M. 7.2.13, 7.2.14, 7.5.4 RRM 018, M 115).
20. PEDESTRIAN CROSSING ROAD MARKING TO DELINEATE EXTENTS & ON-STREET PLATFORM EDGE WHITE LINE - 100mm WIDE CONTINUOUS WHITE LINE (T.S.M. 7.16.3, M 131).
21. TAXI STAND ROAD MARKING - WHITE 100mm WIDE, 600mm MARK AND 600mm GAP PARALLEL TO THE KERB. TERMINAL POINTS INDICATED BY WHITE 100mm WIDE DOUBLE BROKEN MARKINGS PERPENDICULAR TO THE KERB AT THE TERMINAL POINTS. THE WORDING TAXI MUST APPEAR AT LEAST ONCE WITHIN THE BAY (T.S.M. 7.6.13, RRM 029).
22. BUS STOP AND BUS STOP MARKING - WHITE 100mm WIDE BROKEN LINE, 1000mm MARK AND 1000mm GAP INTERMITTENT WHITE LINE PARALLEL TO THE KERB. A 100mm WHITE CONTINUOUS LINE AT THE TERMINAL POINTS. THE WORDING BUS MUST APPEAR TWICE WITHIN THE BUS BAY (T.S.M. 7.7.1, RRM 030).
23. NO ENTRY ROAD MARKINGS - WHITE 200mm WIDE CONTINUOUS LINE AND A 200mm WIDE BROKEN LINE. THE BROKEN LINE COMPRISES OF 1000mm MARK AND 1000mm GAP. THE TWO LINES ARE 300mm APART. NO ENTRY SIGNS ARE REQUIRED WITH THIS ROAD MARKING (T.S.M. 7.2.19, RRM 019).
24. PARKING BAY ROAD MARKING - 50mm WIDE WHITE MARKINGS (T.S.M. 7.6.6 TO 7.6.8, RRM 011, RRM 012, RRM 013, RRM 016).
25. DISABLED PARKING BAY SYMBOL WHITE 2500 HEIGHT, 1200mm WIDE (T.S.M. 7.6.12, RRM 015).
26. DISABLED PARKING BAY - VARYING LAYOUT STANDARD PARALLEL, PARALLEL WITH CUT-IN KERB LINE WITH BUFFER ZONE (T.S.M. 7.6.10, Fig. 7.27).
27. STOP WHITE WORDED MARKING, 1600mm HEIGHT OR 2800mm HEIGHT (T.S.M. 7.5.3, M 114).
28. LOOK LEFT AND LOOK RIGHT WHITE WORDED MARKING, 300mm HEIGHT LETTERS, ACCOMPANIED BY WHITE ARROW POINTING IN THE RELEVANT DIRECTION (T.S.M. 7.5.11, M 107L/R).
29. CYCLE TRACK - 100mm WIDE CONTINUOUS WHITE LINE TO DELINEATE CYCLE TRACK EDGE LINE (T.S.M. 7.8.1, RRM 022).
30. CYCLE TRACK ADVISORY - 100mm WIDE INTERMITTENT WHITE LINE 750mm MARK, 750mm GAP CYCLE TRACK BROKEN EDGE LINE (T.S.M. 7.8., RRM 023).
31. BUS LANE MARKING - 250mm CONTINUOUS WHITE LINE (T.S.M. 7.7.6, RRM 024).
32. BROKEN BUS LANE MARKING - 250mm, 1000mm MARK AND 1000mm GAP LINE (T.S.M. 7.7.6, M 129).
33. LANA BUS WHITE WORDED MARKING, 1600mm HEIGHT WORDS WITH 1000mm GAP BETWEEN EACH WORD (T.S.M. 7.7.6, RRM 024).
34. RIGHT AND LEFT DEFLECTION ARROWS FOR WITH-FLOW BUS LANA AND TRAM LANE START-WHITE MARKING 4500mm IN HEIGHT (T.S.M. 7.7.9, M 101).
35. CYCLE TRACK SYMBOL MARKING ON CYCLE LANE (T.S.M. 7.8.5, M 116).
36. CYCLE TRACK DIRECTION ARROWS (T.S.M. 7.8.3, M 117, M 118, M 119).
37. CYCLE TRACK CHEVRON 750mm WIDE FROM EDGE OF TRACK TO LOADING OR PARKING AREA. MARKING IS WHITE 100mm WIDE BORDER WITH 100mm WIDE 45 DEGREES DIAGONALS AT 1000mm APART (NATIONAL CYCLE MANUAL).
38. LANE LINES - 100mm WIDE INTERMITTENT WHITE LINE 2000mm MARK, 2000mm GAP (T.S.M. 7.3.38, 7.12.4 Fig. 7.10, RRM 003B). LANE GUIDANCE LINE - 100mm WIDE INTERMITTENT WHITE LINE 1000mm MARK, 1000mm GAP (T.S.M. 7.3.50, 7.13.10, Fig. 7.49, RRM 003C).
39. BIFURCATION ARROW (T.S.M. 7.5.17, M 102).
40. DOUBLE-HEADED TRAM LANE (BUS LANE) ENDS ARROW SIMILAR TO BUS LANE ENDS ARROW (T.S.M. 7.7.1, RRM 030).
41. TRAFFIC CALMING TRIANGLE (T.S.M. 7.17, M 112).
42. TRAM LANE BROKEN WHITE LINE 250mm WIDE, 1000mm MARK AND 1000mm GAP (T.S.M. 7.7.23 SIMILAR TO M 129).
43. VARIOUS WORDED MARKINGS 1600mm STANDARD ALPHABET SIZE ELONGATED FONT BASE ON TRANSPORT MEDIUM ALPHABET (T.S.M. 7.5.2, Fig. 7.61, SEE APPENDIX 7A).
44. ALL WORKS ASSOCIATED WITH WAYFINDER SIGNS (INCLUDING REMOVAL) TO BE CARRIED OUT BY JC DECAUX.
45. EXISTING ROAD MARKINGS SHOULD BE CHECKED ON SITE BY THE CONTRACTOR TO ENSURE THAT THE PROPOSED DESIGN TIES IN NEATLY.
46. THIS DRAWING IS TO BE USED FOR THE DESIGN ELEMENT IDENTIFIED IN THE TITLEBOX. OTHER INFORMATION SHOWN IS TO BE CONSIDERED INDICATIVE ONLY. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DESIGN DRAWINGS.
47. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DESIGNER'S RISK ASSESSMENT BXD-400-DRA-CW-0001.
48. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SCHEDULE BXD-400-SCH-SN-(APPLICABLE AREA)
49. LOCATION OF ANY EXISTING SIGNS TO BE RECORDED ON SITE. REMOVAL OF ANY CONFLICTING SIGNS TO BE DOCUMENTED.

REFERENCES:
A). IS EN 1436 ROAD MARKING MATERIALS - PERFORMANCE FOR ROAD USERS.
B). IS EN 1423 ROAD MARKING MATERIALS
C). IS EN 1424 ROAD MARKING MATERIALS
D). IS EN 1463-1 ROAD MARKING MATERIALS
E). IS EN 1463-2 ROAD MARKING MATERIALS - RETRO-REFLECTING ROAD STUDS - PART 2: ROAD TESTS PERFORMANCE REQUIREMENTS.
F). IS EN 1871 ROAD MARKING MATERIAL - PHYSICAL PROPERTIES.
G). IS EN 1790 ROAD MARKING MATERIALS - PRE-FORMED ROAD MARKINGS.
H). IS EN 1824 ROAD MARKING MATERIALS - ROAD TRIALS.
I). TS4 GUIDELINES, CERTIFICATION SCHEME, AND SPECIFICATION FOR THE CONSTRUCTION OF TRAFFIC SIGNS - DEPARTMENT OF THE ENVIRONMENT & LOCAL GOVERNMENT - JANUARY 2001.
J). RSC-G-008-G GUIDELINES FOR THE DESIGN OF RAILWAY INFRASTRUCTURE AND ROLLING STOCK, SECTION 7 TRAMS.

Q03 REVISION SYMBOL

REV	DATE	DESCRIPTION	BY	CHK	APD
Q03	07.11.16	ISSUED FOR CONSTRUCTION	RD	DO'K	BM
Q02	06.09.16	ISSUED FOR CONSTRUCTION	KR	AL	BM
Q01	11.01.16	ISSUED FOR CONSTRUCTION	KR	PW	BM

Bonneagar Iompair Éireann
Transport Infrastructure Ireland
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LUAS
LUASCROSSCITY
SISK Builders Contractors / STECONFER Joint Venture, Established 1859
Ardanuy
Malachy Walsh and Partners Consulting Engineers
BRADY SHIPMAN MARTIN
OCSC O'CONNOR | SUTTON | CRONIN Multidisciplinary Consulting Engineers
O'Connell Mahon Architects

CONTRACT NO	AREA	CHAINAGE
BXD-400	29 (A2)	MC03 0+070-0+098

LOCATION: ST. STEPHEN'S GREEN NORTH

DRAWING TITLE: SIGNAGE AND MARKING PLAN

SHEET 3 OF 3

PREPARED BY: KR	DESIGNED BY: PW	APPROVED BY: BM
PREPARED CHECK BY: KM	DESIGN CHECK BY: AL	AS BUILT BY:
DATE: JANUARY 2016	SCALES: 1:200	SHEET SIZE: A1

STAGE	LINE	CONTRACT	ELEMENT	DRW NO	DRW REV
Q	BXD	400	SN	1003	Q03