



**NOTES:**

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION AND ALL OTHER RELATED DRAWINGS ISSUED BY THE ENGINEER.
- DO NOT SCALE FROM THIS DRAWING. WORK FROM FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- ALL DIMENSIONS, LEVELS AND SURVEY GRID CO-ORDINATES ARE TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS.
- NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS PERMITTED WITHOUT PRIOR PERMISSION FROM THE ENGINEER.
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY FULLY WITH THE MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS, VOLUME ONE, SPECIFICATION FOR HIGHWAY WORKS AND THE LOCAL AUTHORITY ESSEX COUNTY COUNCIL SPECIFICATION FOR ROAD CONSTRUCTION AND STANDARD DETAILS.
- THE CONTRACTOR SHALL UNDERTAKE SUCH MATERIALS TESTING AS INDICATED IN THE SPECIFICATIONS AND SHALL INCLUDE THE COST OF TESTING IN THE TENDER.
- UNLESS STATED OTHERWISE, ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF AT AN APPROVED TIP OFF-SITE.
- THE PUBLIC HIGHWAY AND WORKS WILL BE KEPT CLEAN AND FREE OF DEBRIS BY USE OF WHEEL WASHING FACILITIES AND ROAD SWEEPERS TO THE COUNCIL'S SATISFACTION.
- ALL SETTING OUT SHALL BE AGREED ON-SITE WITH THE ENGINEER, PRIOR TO THE COMMENCEMENT OF THE WORKS.
- UPON COMPLETION OF THE WORKS, THE CONTRACTOR SHALL UNDERTAKE ALL NECESSARY MAINTENANCE REPAIRS TO RETURN THE HIGHWAY TO ITS FORMER CONDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY PRIOR TO COMMENCING WORKS ON THE HIGHWAY.

**CDM NOTES:**

- THE ATTENTION OF THE CLIENT AND THE PRINCIPAL CONTRACTOR IS DRAWN TO THE FOLLOWING POTENTIAL RISKS IN CONNECTION WITH THE PROPOSED ON-SITE AND OFF-SITE WORKS AS DESIGNED FOR THIS PROJECT.
- WORKS IN THE VICINITY OF LIVE SERVICES INCLUDING GAS, ELECTRICITY AND BT WILL BE NECESSARY AND THE ADVICE OF ALL STATUTORY SERVICE COMPANIES MUST BE SOUGHT BEFORE ANY WORKS COMMENCE.
- WORKS WITHIN AND ADJACENT TO EXISTING HIGHWAY WILL ENTAIL TRAFFIC HAZARDS AND ALL APPROPRIATE SAFETY MEASURES INCLUDING BARRIERS, SIGNS AND LIGHTING MUST BE UNDERTAKEN TO THE APPROVAL OF THE LOCAL AUTHORITY, THE HIGHWAY AUTHORITY AND THE POLICE DEPARTMENT.
- HAZARDOUS MATERIALS INCLUDING CEMENT AND BITUMINOUS MATERIALS ARE SPECIFIED AND THE MANUFACTURERS ADVICE ON SAFE HANDLING PROCEDURES MUST BE OBTAINED AND MADE CLEAR TO ALL OPERATIVES.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES WITHIN THE VICINITY OF THE WORKS AND ENSURE THESE ARE PROTECTED THROUGHOUT THE DURATION OF THE WORKS. ALL UTILITY PLANT SHOULD BE CLEARLY MARKED ON THE GROUND, PRIOR TO COMMENCEMENT OF THE WORKS.
- THE CONTRACTOR MUST ENSURE ALL WORKING AREAS ARE FULLY SECURE.

**ROAD MARKING NOTES:**

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- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- ALL DIMENSIONS, LEVELS AND SURVEY GRID CO-ORDINATES ARE TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS.
- NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS PERMITTED WITHOUT PRIOR PERMISSION FROM THE ENGINEER.
- ALL ROAD MARKINGS SHALL BE IN ACCORDANCE WITH 'THE TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS 2002' AND TO THE REQUIREMENTS OF THE LOCAL AUTHORITY.
- ALL SURFACE MARKINGS SHALL BE SCALED APPLIED IN THERMOPLASTIC MATERIAL COMPLYING WITH BS589: PART 1, CLASS A. MARKING THICKNESS SHALL BE 40µm OR 1MM.
- ALL SURFACE MARKINGS SHALL BE REFLECTORISED BY MEANS OF SPHERICAL GLASS BEADS TO BS6143, CLASS A, FRESHED DURING COMPOUNDING AT A RATE OF 20% BY WEIGHT AND ADDITIONALLY BY SPHERICAL GLASS BEADS TO BS6143, CLASS B, SURFACE APPLIED DURING APPLICATION AT A RATE OF 400-500G/M<sup>2</sup>.
- THE SKID RESISTANCE OF ALL SURFACE MARKINGS SHALL NOT BE LESS THAN 55.
- EXACT LOCATIONS OF THE SURFACE MARKINGS SHALL BE AGREED ON SITE WITH THE ENGINEER PRIOR TO THEIR PERMANENT APPLICATION.

Rev	Description	Drn	Chk	App	Date
E	40mph SIGN AMENDED TO 30mph, GRASS VERGE AT SITE ACCESS OMITTED, EXTENT OF WORKS TO SOUTHERN ARM OF ROUNDABOUT EXTENDED	DE	AF	CBP	24.11.16
D	LIGHTING COLUMN LOCATIONS AMENDED, RMBT VIS ADDED, WIRE FENCE REMOVED	DE	AF	CBP	29.09.16
C	UPDATED TO INCLUDE MINI-ROUNDABOUT IN S278 SUBMISSION	DE	AF	CBP	11.07.16
B	LAYOUT REVISED TO TAKE INTO ACCOUNT COMMENTS RECEIVED FROM ESSEX HIGHWAYS ON THE 21/06/16	SF	AF	CBP	24.06.16
A	UNCONTROLLED CROSSING LOCATION AMENDED	AF	AF	CBP	05.05.16

**TENDER ISSUE NOT FOR CONSTRUCTION**

**SUBJECT TO APPROVAL**

**KEY**

- CARRIAGEWAY
- FOOTWAY
- VERGE
- ENTRY TREATMENT, BLOCK PAVED OR SIMILAR
- UNCONTROLLED BLISTER TACTILE CROSSING
- CORDUROY TACTILE PAVING
- 2.4m X 90m VISIBILITY SPY
- APPLICATION BOUNDARY
- PROPOSED TIMBER BOLLARD, OR SIMILAR APPROVED
- PROPOSED ROAD GULLY, TO BE CONNECTED TO EXISTING GULLY LEAD
- PROPOSED STREET LIGHTING COLUMN / LANTERN REFER TO MMA DESIGN.
- PROPOSED ROAD SIGN LOCATION
- PROPOSED POST BOX
- 4.5m x 40m VISIBILITY TO THE RIGHT FOR MINI ROUNDABOUT.

**KEY TO ADOPTABLE LIGHTING - REFER TO MMA LIGHTING DESIGN DRAWING MMA13564/001-003**

- 6m URBIS AMPERA MINI NW LED lantern
- 6m URBIS AMPERA MINI NW LED LANTERN RAISE AND LOWER
- 8m URBIS AMPERA MIDI NW LED LANTERN
- 8m URBIS AMPERA MINI NW LED LANTERN RAISE AND LOWER
- 8m URBIS AMPERA MINI NW LED LANTERN (64 LED)

**NOTE:** THE PROPOSED CYCLEWAY/FOOTWAY SIGNAGE SHALL NOT BE ERRECTED UNTIL THE FULL EXTENT OF THE WORKS ARE COMPLETE. (SIGN POSTS MAY BE INSTALLED IN ADVANCE)

**NOTE:** PROPOSED ON-SITE 20MPH ZONE IS SUBJECT TO TRAFFIC REGULATION ORDER. SIGNAGE SHALL NOT BE ERRECTED UNTIL THE TRO IS IN PLACE

CYCLE SIGNS ARE REQUIRED TO BE BAGGED UP UNTIL THE FUTURE ROUNDABOUT TO MERSEY HOMES DEVELOPMENT IS COMPLETED

**NEW ROAD LAYOUT AHEAD**

DIAG 7014 - NEW ROAD LAYOUT AHEAD TO BE MOUNTED SUITABLE EXISTING POST/LIGHT COLUMN OR NEW POST AS APPROPRIATE. AT A MINIMUM DISTANCE OF 45m IN ADVANCE OF THE WORKS X-HEIGHT OF 60 TO BE REMOVED NO LATER THAN 3 MONTHS AFTER COMPLETION OF WORKS

DIAG 506.1 - SIDE ROAD AHEAD TO BE MOUNTED ON LAMP COLUMN, ILLUMINATED 2.3m MINIMUM CLEARANCE HEIGHT TO BE SITED 45m-110 ON APPROACH TO JUNCTION 60m CLEAR APPROACH VISIBILITY REQUIRED

DIAG 974 - SIZE 400mm TO BE MOUNTED ON PROPOSED POST MOUNTING HEIGHT OF 2.3m

DIAG 642 - NO STOPPING ON MAIN CARRIAGEWAY SIZE 600mm TO BE MOUNTED ON EXTERNALLY ILLUMINATED POST MOUNTING HEIGHT OF 2.3m

DIAG 956 - UNSEGREGATED CYCLE/FOOTWAY SIZE 450mm TO BE MOUNTED POST MOUNTING HEIGHT CLEARANCE 2.3m

RELOCATED BUS STOP. BUS CAGE MARKINGS TO BE DESIGNED IN ACCORDANCE WITH TSM CHAPTER 5 DIAG 1025.1

DIAG 602 - GIVE WAY SIGN SIZE 600mm TO BE MOUNTED ON EXTERNALLY ILLUMINATED POST 2.3m MINIMUM CLEARANCE HEIGHT

EXISTING BUS SHELTER TO BE REMOVED

NEW POST AND WIRE FENCE 1.2m HIGH

REFER TO DRAWING C623\_130-134 FOR FUTURE BOXTED ROAD FOOTWAY / CYCLE WAY PROPOSED DETAILS AND EXTENT