

IMPORTANT HEALTH & SAFETY

This document is to be read in conjunction with all relevant drawings, details, specifications and manufacturers recommendations and requirements together with all Health & Safety Executive Publications and Construction (Design & Management) Regulations 2007. If in doubt consult Supervising Officer.

RISK ASSESSMENT

for

Structural Work

at

**47 Arlington Road
London**

N.F. Moore CEng MICE MIStructE FFB
NFM Engineering Ltd.
77 Wivenhoe Road
Alresford
Colchester
Essex
CO7 8AG

**Job No. 3166
Date July 2010**

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SECTION 1

HAZARD EVALUATION PRELIMINARY DESIGN

SECTION 2

HAZARD EVALUATION FINAL/DESIGN DETAIL

NOTES:

- a) Contractor shall take due account of suggested revisions to reduce hazard and comments in preliminary design risk assessments together with the requirements/hazard noted in the final/detail design risk assessments including comments.
- b) Contents are not necessarily in order of construction sequence.
- c) The list is not exhaustive and may be added to during the contract/building operation.
- d) Risk may also increase if circumstances change or are unforeseen on site.
- e) It is necessary for the contractor to show that all operatives have read the contractors Health & Safety Policy and understand procedures in cases of emergencies.
- f) These risk assessments shall be made available by the main contractor to all operatives, suppliers and sub-contractors.
- g) The contractor is to prepare his own risk assessments for inclusion in the Planning File as appropriate.
- h) All site operatives must be fully aware of their own responsibilities for safety and of the safety of others on site.
- i) As work progresses risk assessments may continually be updated based upon ongoing evaluation of risks, methods of construction and material and operative deployment.

SECTION 1

HAZARD EVALUATION

PRELIMINARY DESIGN

- 1. SITE MACHINERY**
- 2. DEMOLITION**
- 4. CONTAMINATION**
- 5. PROPPING & SHORING**
- 7. FOUNDATIONS ADJACENT TO EXISTING**
- 8. FOUNDATIONS GENERAL**
- 10. SUBSTRUCTURES**
- 11. UNDERPINNING**
- 12. REINFORCEMENT FIXING**
- 13. SUPERSTRUCTURE**
- 14. STRUCTURAL STEELWORK**
- 15. PC AND INSITU FLOORS**
- 16. TIMBER FLOORS**
- 17. ROOFS**
- 28. EXTERNAL PAVEMENTS**
- 29. RETAINING WALLS**
- 30. MASONRY BOUNDARY WALLS**

Guidance Notes

Risk Assessment Marking:
G=0; L=1; M=2; H=3

Totals: < 4 Modify design if possible
 > 5 Eliminate or Redesign

| NFM Engineering | | STAGE 1 | | HAZARD EVALUATION | | Job No 3160 | |
|------------------------------|---|---|----------|--|--|------------------------|--|
| The CDM Regulations (Design) | | PRELIMINARY DESIGN | | Design Element SITE MacMills / | | Sheet No 1 | |
| Ref | Item - Containing Potential Hazard | Risk Assessment | | Total (Degree of Risk) | | Initials NFM Date 2010 | |
| | | Probability | Severity | Suggested revision to eliminate or reduce hazard | | | |
| | | O L M H | O L M H | | | | |
| MA 1 | SITE MacMills OPERATIVE DRIVERS EXCAVATORS | | | | | | |
| | POWERED EXCAVATORS | | | | | | |
| | DRIVE THRU LOADERS | 1 | | | | | |
| | HUNG CRANES | | | | | | |
| | PLATEFORM DOZERS | | | | | | |
| | ETC | | | | | | |
| MA 2 | HAND TOOLS | | | | | | |
| | BLUS | | | | | | |
| | GLOVES | | | | | | |
| | BURRS | 1 | | | | | |
| | SAWS | | | | | | |
| | CUTTERS | | | | | | |
| | HAMMERS | | | | | | |
| | ETC | | | | | | |
| Comments | | Contractor to keep site of all off site traffic points to drive / operate specific plant and ensure the training of operatives to use plant or machinery on site. | | | | | |

Guidance Notes

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0=0; L=1; M=2; H=3

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Risk Assessment Model

RISK ASSESSMENT MARKING:

| NFM Engineering | | STAGE 1 | | Total (Degree of Risk) | | Job No 3166 | |
|------------------------------|---|--------------------|-------------|------------------------------|------------------|--|----------|
| The CDM Regulations (Design) | | HAZARD EVALUATION | | Design Element | | Sheet No 2 | |
| Ref. | Item - Containing Potential Hazard | PRELIMINARY DESIGN | | | | Initials NFM | Date |
| | | Risk Assessment | Probability | Severity | Potential Hazard | | |
| DE 1 | DEMOULITION | 0 L M H | 0 L M H | 0 L M H | 0 L M H | NOTES TO DRAWINGS ADVISED OF SPECIALIST DEMOLITION CONTRACTORS | NOT COLO |
| DE 2 | Roofs | 2 | | 2 | 4 | DITTO | DITTO |
| DE 3 | Walls | 2 | | 2 | 4 | DITTO | DITTO |
| DE 4 | Floors | 2 | | 2 | 4 | DITTO | DITTO |
| DE 5 | FOUNDATIONS | 2 | | 2 | 4 | DITTO | DITTO |
| DE 6 | OTHER SUB STRUCTURES CONTAMINATED MATERIAL | | | | | NOTES TO DRAWINGS / SPECIFICATION OF CONTAMINATED MATERIALS. | N |

Guidance Notes

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| NFM Engineering | | STAGE 1 | | HAZARD EVALUATION | | PRELIMINARY DESIGN | | Job No B166 | |
|------------------------------|--------------------------|------------------------------------|------------------|---|-----------|----------------------------------|----------|----------------|--|
| The CDM Regulations (Design) | | Item - Containing Potential Hazard | | Risk Assessment | | Design Element CONTAMINATIONS | | Sheet No A | |
| Ref | CONTAMINATION | Total (Degree of Risk) | Potential Hazard | Suggested revision to eliminate or reduce hazard | Date | Initials HFM | Sheet No | Comments | |
| C01 | IN SOIL SOILS | 0 L M H 0 L M H | | EMPLOY SPECIALIST SUB CONTRACTORS SPECIALIST CLOTHING | JULY 2010 | | | CONTAMINATIONS | |
| C02 | IN EXISTING BUILDINGS | | | DITTO | | | | | |
| C03 | IN EXISTING STRUCTURES | | | DITTO | | | | | |
| C04 | ASBESTOS SURVEY / FENDAK | | | DITTO | | | | | |
| C05 | ASBESTOS DISPOSAL | | | DISPOSE OF IN MANAGERIAL ACCORDANCE TO HEALTH & SAFETY EXECUTIVE AND IN ACCORDANCE WITH HSE LEGISLATION AND LOCAL AUTHORITY / HEALTH & SAFETY APPROVAL | | | | | |

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| NFM Engineering | | STAGE 1 HAZARD EVALUATION | | | | | | | | | | Job No 3166 | |
|--|------------------------------------|---|---|---|---|---|----------|---|---|---|--|--|--------------|
| The CDM Regulations (Design) | | PRELIMINARY DESIGN | | | | | | | | | | Sheet No A | |
| Ref | Item - Containing Potential Hazard | Risk Assessment | | | | | Severity | | | | | Potential Hazard | Initials MFM |
| | | O | L | M | H | 0 | L | M | H | | | Suggested revision to eliminate or reduce hazard | Date |
| S1 | GENERAL SCAFFOLDING | / | | | | 2 | | 3 | | 3 | | REMOVED SCAFFOLDING TO BE EMPLOYED (ADAPTS TO BS 5100) TO SOLICITIVE | JULY 2010 |
| S2 | LOADBEDDING SCAFFOLD | 2 | | | | 2 | | 4 | | 4 | | NOTES TO DRAWINGS WOULD BE DETAILED AS PROPOSED | |
| S3 | STABILITY SCAFFOLD | 2 | | | | 2 | | 4 | | 4 | | NOTES TO DRAWINGS BEING DRAFTED TO BS EN 303-2 | |
| S4 | HOISTS | 1 | | | | 2 | | 3 | | 3 | | DITTO | |
| S5 | PLANNING | 1 | | | | 2 | | 3 | | 3 | | DITTO | |
| S6 | SHORING | 2 | | | | 2 | | 4 | | 4 | | NOTES TO DRAWINGS SHORING TO BE CARRIED OUT | |
| Comments | | LADDERS TO BE CORRECTLY LOCATED & SECURED. | | | | | | | | | | MAINTAINED | |
| SCAFFOLD TO BE DESIGNED BY SPECIALIST AND MAINTAINED | | UNDER THE DIRECTION OF THE MAIN CONTRACTOR. | | | | | | | | | | SPECIALIST SUPERVISOR OFFICER | |

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| NFM Engineering | | STAGE 1 HAZARD EVALUATION | | Total (Degree of Risk) | Job No 3166 London | Job No 3166 |
|------------------------------|--|---|------------------|-------------------------------------|---|---|
| The CDM Regulations (Design) | | PRELIMINARY DESIGN | | Design Element PC + MESTO floors | Sheet No 15 | Initials NFM Date July 2010 |
| Ref. | Item - Containing INTERNAL/EXTERNAL PC/INSTITUTIONS STAB | Risk Assessment | | Potential Hazard | Suggested revision to eliminate or reduce hazard | |
| | | Probability | Severity | | | |
| | | 0 L M H | 0 L M H | | | |
| PC 1 | Ground Stabs/Floors | 1 | 1 | 2 | HEAVY LOADS - LIFT WITH CRANE | |
| PC 2 | 1st floors | 2 | 2 | 4 | ENSURE SURFACE SIZED FOR HANDLOADS ON SITE CONSTRAINTS. | |
| PC 3 | 2nd AND UPPR floors. | 2 | 2 | 4 | EVALUATE PUMPED CONCRETE OR PERMANENT FLOORING | |
| PC 4 | GloWn floors | 1 | 2 | 3 | USE PUMPS IF HO'D | |
| PC 5 | 1st floors | 1 | | 3 | DITTO AS OF ABOVE | |
| PC 6 | 2nd floors & Roofs | 1 | | 3 | DITTO AS OF ABOVE (use pumps or fall protection) | |
| Comments | | <p>CRAKES TO SWING UP & LOAD WITHIN SITE ADJUSTING ELEVATIONS CONSIDER IF CHANCE IS TO PLATEAU AND PROVIDE METHOD STATEMENT AND WORKING ARRANGEMENTS.</p> | | | | |

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Guidance Notes

Risk Assessment Marking:
0=0; L=1; M=2; H=3

Totals: < 4 Modify design if possible
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| NFM Engineering | | STAGE 1 HAZARD EVALUATION | | Total (Degree of Risk) | Job No 3166 Design Element 2005c | Sheet No 17 Initials NFM Date July 2010 | | |
|------------------------------|------------------------------------|--|----------|---------------------------|--|---|---|---|
| Ref | Item - Containing Potential Hazard | Risk Assessment | | Potential Hazard | Suggested revision to eliminate or reduce hazard | | | |
| The CDM Regulations (Design) | | PRELIMINARY DESIGN | | | | | | |
| Ref | | Probability | Severity | | | | | |
| 0 | | L | M | H | O | L | M | H |
| R1 | Roofs | 1 | | 2 | | | | |
| R1 | TRUSS DRAFTER | 1 | | 2 | | | | |
| R1 | KIOSKULATION | 1 | | 2 | | | | |
| R2 | Roof FINISH | 1 | | 2 | | | | |
| R2 | ON TRUSSES | 1 | | 2 | | | | |
| R3 | FLAT Roof | 1 | | 1 | | | | |
| R3 | JOISTS | 1 | | 1 | | | | |
| R4 | FLAT Roof | 1 | | 2 | | | | |
| R4 | FINISHES | 1 | | 2 | | | | |
| Comments | | Provide class A deck (REFED TO TIMBER FOCKS) | | | | | | |

Guidance Notes

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Risk Assessment Marking:
O=0; L=1; M=2; H=3

Totals: < 4 Modify design if possible
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SECTION 2

HAZARD EVALUATION

FINAL/DESIGN DETAIL

- 1. SITE MACHINERY**
- 2. DEMOLITION**
- 4. CONTAMINATION**
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- 7. FOUNDATIONS ADJACENT TO EXISTING**
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Guidance Notes

Risk Assessment Marking:

O=0; L=1; M=2; H=3

C = Hazard during Construction

M = Hazard for future maintenance

| NFM Engineering | | STAGE 2 HAZARD EVALUATION | | Total (Degree of Risk) | Job No 47 Repton Road London | Job No 316 Sheet No 1 | | | |
|------------------------------|---|------------------------------|---|--|---------------------------------|---|---|--|--|
| The CDM Regulations (Design) | | FINAL/DETAIL DESIGN | | | | | | | |
| Ref | Item - Potential Hazard (Identified in Preliminary Design) | Risk Assessment | | Inherent Hazard - C or M | | | | | |
| MA1 | SITE MACHINERY | Probability | | Notification to Planning Supervisor * a) Notes for identification on drawing * b) | | | | | |
| | | O | L | M | H | O | L | | |
| MA1 | OPERATIVE DRIVEN POWERED EXCAVATORS | | | | | | | | |
| MA1 | PILING RIGS COMPACTORS ROADROLLERS SCREWS PIERS PATTERNS ETC. | 1 | | 3 | 4 | RISK OF PERSONAL INJURY & DAMAGE TO PROPERTY C | | | |
| MA2 | HAND HELD TOOLS Etc. | | | | | PILING PLATFORMS TO BE MAINTAINED REFED TO SOILS REPORT. | | | |
| MA2 | BOWDRILLS SAWS CHISELS HAMMERS ETC. | 1 | | 3 | 4 | | | | |
| Comments | | HEAVY EQUIPMENT PLANT a) | | If CRANES USED WITH JIBS, CONSIDER ADDITIONAL PROPERTY OBTAIN CONSENT TO BANDELS. ENSURE PILING RIGS IN SLOW SWING STABILE ON PEDESTALS. GROUND CONDITIONS | | | | | |

Include on separate sheet if necessary, using item reference.

Guidance Notes

Risk Assessment Marking:
0=0; L=1; M=2; H=3

C = Hazard during Construction
M = Hazard for future maintenance

| NFM Engineering | | STAGE 2 HAZARD EVALUATION | | Total (Degree of Risk) | Job No 3160 Design Element <u>DEMOLITION</u> | Sheet No 2 | Initials Date | | | | |
|------------------------------|--|---------------------------------------|----------|--|--|---------------|------------------|---|--|--|--|
| The CDM Regulations (Design) | | FINAL/DETAIL DESIGN | | | | | | | | | |
| Ref. | Item - Potential Hazard (Identified in Preliminary Design) | Risk Assessment | | Notification to Planning Supervisor * a) Notes for identification on drawing * b) | | | | | | | |
| | | Probability | Severity | | | | | | | | |
| | | 0 | L | M | H | O | L | M | | | |
| DE 1 | Roofs | 2 | | 2 | | | | | | | |
| DE 2 | Walls | 2 | | 2 | | | | | | | |
| DE 3 | Floors | 2 | | 2 | | | | | | | |
| DE 4 | Foundations | 2 | | 2 | | | | | | | |
| DE 5 | OTHER SUB STRUCTURES | | | | | | | | | | |
| DE 6 | CONTAMINATED MATERIAL | | | | | | | | | | |
| | Comments | To display warnings outside site. a) | | | | | | | | | |
| | | REF TO DEMOLITION SPECIFICATION b) | | | | | | | | | |

Include on separate sheet if necessary, using item ence.

Guidance Notes

Risk Assessment Marking:

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C = Hazard during Construction

M = Hazard for future maintenance

| NFM Engineering | | STAGE 2 HAZARD EVALUATION | | Total (Degree of Risk) | Job No 3166 | Job No 3166 |
|------------------------------|--|------------------------------|----------|--|---------------|-----------------|
| The CDM Regulations (Design) | | FINAL/DETAIL DESIGN | | Design Element <u>CONTAMINATION</u> | Sheet No A | Initials NFM |
| Ref | Item - Potential Hazard (Identified in Preliminary Design) | Risk Assessment | | Inherent Hazard - C or M | Date | |
| | | Probability | Severity | | | |
| | | O | L | H | O | L |
| C01 | IN SOILS CONTAMINATION | | | | | |
| C02 | IN EXISTING BUILDINGS | | | | | |
| C03 | ASBESTOS SUBSTRATE/Plaster | | | | | |
| C04 | Asbestos Disclosure | | | | | |

Comments

DISPOSER OR CONTAMINATED WASTE BY REGULATED CONTRACTORS
(HSE) TO RENTAL LICENCE TIP FOR DISPOSAL.

All RELEVANT DOCUMENTS STORING & DISPOSAL TO BE KEPT AS RECORDS BY CONTRACTOR

Include on separate sheet if necessary, using item reference.

Guidance Notes

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C = Hazard during Construction
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Guidance Notes

Risk Assessment Marking:
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| STAGE 2 HAZARD EVALUATION FINAL/DETAIL DESIGN | | Total (Degree of Risk) | Job No 3166 NFM Date |
|---|--|--|--|
| Ref. | Item - Potential Hazard (Identified in Preliminary Design) | Inherent Hazard - C or M | Sheet No 6 |
| | Risk Assessment | Notification to Planning Supervisor * a) Notes for identification on drawing * b) | |
| DR 1 | EXCAVATING TRENCHES | 4 | DISK OF TRENCH COLLAPSE SEVERE OR FATAL INJURY DROPPING CALLED OUT AS TRENCHES BROKEN |
| DR 2 | DEWATERING TRENCHES | 3 | — DITTO — |
| DR 3a | PIPE LAYING IN CHAMBER CONST. | 3 | HEAVY PIPES CLAWED IN POSITION RISK OF SENSE OF FATAL INJURY |
| DR 3 | BACKFILLING | 2 | — DITTO — |
| DR 4 | TESTING | 0 | LARGE DIAMETER PIPE OF GRANITE PROSENCE ACROSS WHERE WORKERS STANDING / WALKING |
| DR 5 | Maintenance from Project Collection | 3 | — DITTO — |
| Comments | | Risk of severe or fatal injury AND ensure suitable trench supports AND de-watering | |

Include on separate sheet if necessary, using Item Reference.

Guidance Notes

Risk Assessment Marking:

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O=0; L=1; M=2; H=3

M = Hazard for future maintenance

Guidance Notes

Risk Assessment Marking:
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Guidance Notes

Risk Assessment Marking:
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C = Hazard during Construction
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| NFM Engineering | | STAGE 2 HAZARD EVALUATION | | Total (Degree of Risk) | Job No 3166 | Job No 3166 |
|------------------------------|--|------------------------------|----------|---|--|---|
| The CDM Regulations (Design) | | FINAL/DETAIL DESIGN | | Design Element <i>Sub Structures</i> | Sheet No 10 | Initials NFM |
| Ref | Item - Potential Hazard (Identified in Preliminary Design) | Risk Assessment | | Inherent Hazard - C or M | Notification to Planning Supervisor * a) Notes for identification on drawing * b) | |
| | | Probability | Severity | | Date | |
| | | 0 | L | M | H | |
| S51 | Sub Structures | 1 | | 2 | 3 | RISK OF FAILING COLLAPSE CAUSING FALLS INJURY. ENSURE SCAFFOLD PROPS & STOOLS. |
| S52 | Sub Masonry | 1 | | 2 | 4 | DITTO - |
| S53 | Sub Concrete | 2 | | 2 | 4 | DITTO - |
| S54 | Structural Steelwork | 1 | | 2 | 3 | DITTO - |
| S55 | BASMENTS | 1 | | 3 | 4 | DITTO - |
| | Plumbing | 1 | | 3 | 4 | DITTO - |
| | External Services | 1 | | 3 | 4 | DITTO - |
| | Comments | | | | | |

* include on separate sheet if necessary, using item reference.

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$M =$ Hazard for future maintenance

Guidance Notes

Risk Assessment Marking:
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Guidance Notes

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Guidance Notes

Risk Assessment Marking:

C = Hazard during Construction
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C = Hazard during Construction
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Guidance Notes

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| NFM Engineering | | STAGE 2 HAZARD EVALUATION | | Total (Degree of Risk) | Job No 3160 London | | Job No 3160 Sheet No 15 | |
|--|--|------------------------------|----------|---------------------------|-----------------------------------|--------------------------|----------------------------|--|
| Ref | Item - Potential Hazard (Identified in Preliminary Design) | Risk Assessment | | | Design Element PC-1 NSTO FCOFs | Inherent Hazard - C or M | | |
| THE CDM REGULATIONS (DESIGN) | | | | | | | | |
| | | Probability | Severity | | | | | |
| | | 0 L | M H | 0 L | M H | | | |
| INT/EXT NSTO/ PC | FLOORS & STAIRS | 1 | | 1 | | | | |
| PC 1 | GROUND FLOORS | | | | | 2 | | |
| PC 2 | 1st Floors | | | 2 | | 4 | | |
| PC 3 | 2nd & UP | | | 2 | | 4 | | |
| PC 4 | Ground floors | | | 2 | | 3 | | |
| PC 5 | 1st floors | | | 1 | | 4 | | |
| PC 6 | 2nd floors AND ROOF | | | 2 | | 5 | | |
| FINAL/DETAIL DESIGN | | | | | | | | |
| NOTIFICATION TO PLANNING SUPERVISOR * NOTES FOR IDENTIFICATION ON DRAWING * | | | | | | | | |
| RISK OF COLLAPSE CHARGES ENDURE OR FALL RISKS HEAVY LOADS TO BE CHANGED | | | | | | | | |
| PC 1 NSTO FCOFs DITTO — C | | | | | | | | |
| PC 2 NSTO FCOFs DITTO — C | | | | | | | | |
| PC 3 NSTO FCOFs DITTO — C | | | | | | | | |
| PC 4 NSTO FCOFs DITTO — C | | | | | | | | |
| PC 5 NSTO FCOFs DITTO — C | | | | | | | | |
| PC 6 NSTO FCOFs DITTO — C | | | | | | | | |
| COMMENTS | | | | | | | | |
| ENSURE ALL CHANGES IN USE UNDERTAKEN ARE DOCUMENTED & FILED ALL CONCRETE FLOORS & ROOFS ARE SUPPORTED BY STABLE SUPPORTS SUBSTRUCTURE SIGNIFICANT RISK OF COLLAPSE | | | | | | | | |

Include on separate sheet if necessary, using item reference.

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