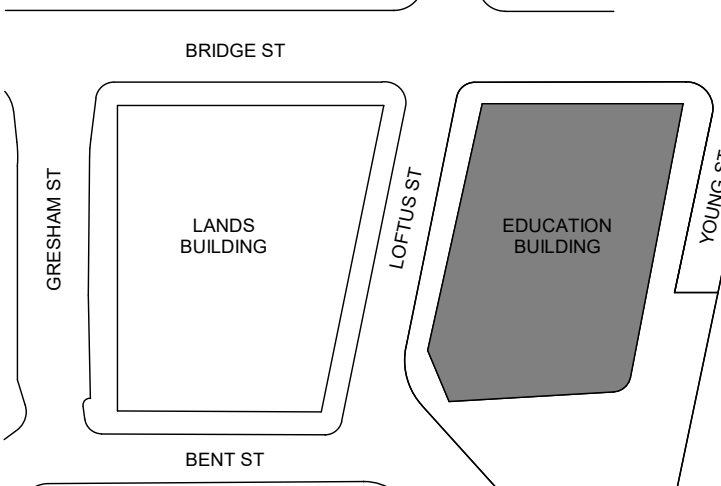


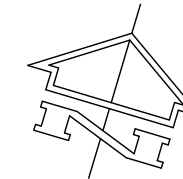
KEY PLAN



DRAWING TO BE PRINTED IN COLOUR

RISKS AND UNKNOWNNS		
LEVEL 4		
1	EXISTING FLOOR STRENGTH	INVESTIGATIONS ARE REQUIRED TO ASCERTAIN THE STRENGTH OF THE EXISTING FLOOR STRUCTURE. THIS WILL ALLOW US TO PROVIDE TEMPORARY LOADING PLANS WHICH THEN DETERMINES WHAT MACHINERY CAN BE USED AND WHAT BACK PROPPING IS REQUIRED IN DEMOLISHING THE STRUCTURE. IF THE EXISTING STRUCTURE IS FOUND TO BE WEAK, STRENGTHENING MAY BE REQUIRED FOR BOTH THE PERMANANT AND TEMPORARY DESIGN
2	CONNECTION FROM THE EXISTING FLOOR TO THE FAÇADE	THE TEMPORARY WORKS SCHEME RELIES ON THE ADEQUACE OF THE EXISTING CONNECTION BETWEEN THE FAÇADE AND THE EXISTING FLOOR. WE HAVE NOT BEEN ABLE TO INVESTIGATE THIS CONNECTION SO CAN'T CONFIRM ITS ADEQUACE.
3	ASSESSMENT OF THE INTERACTION BETWEEN THE TEMPORARY STEELWORK AND EXISTING FAÇADE	THE TEMPORARY STABILITY SYSTEM HAS BEEN DESIGNED TO LIMIT THE LATERAL DEFLECTION ON THE FAÇADE TO HEIGHT/750 (IN ACCORDANCE WITH THE CIRA BEST PRACTICE GUIDE FOR RETENTION OF MASONRY FAÇADES). FOLLOWING THE FAÇADE INTRUSIVE INVESTIGATIONS (TO ASCERTAIN THE MAKE-UP OF THE FAÇADE IE. STONE THICKNESS, BRICKWORK THICKNESS AND CAVITY SIZE) A COMPREHENSIVE ANALYTICAL MODEL OF THE FAÇADE AND STEELWORK WILL BE DEVELOPED. THIS WILL ALLOW US TO PREDICT AREAS WHICH ARE MORE LIKELY TO CRACK. IT SHOULD BE NOTED THAT WHEN UNDERTAKING SUCH MAJOR WORK TO A BUILDING A DEGREE OF CRACKING IS INEVITABLE AND AN ALLOWANCE FOR REPAIR WORK IS REQUIRED
4	EAST AND WEST BALCONIES (FOR SOUTHERN SECTION OF BUILDING)	THE CANTILEVER BALCONIES IN THE FAÇADE NEED INTRUSIVE INVESTIGATION TO LET US UNDERSTAND HOW THEY ARE CURRENTLY WORKING. THE PROPOSED DEMOLITION WILL AFFECT THESE BALCONIES AND RESULT IN THEM NEEDING TEMPORARY SUPPORT. VARIOUS OPTIONS HAVE BEEN TABLED TO SUPPORT THESE BALCONIES HOWEVER WITHOUT THE INTRUSIVE INVESTIGATIONS (AND A DETAILED UNDERSTANDING THE EXISTING STRUCTURE) THIS SUPPORT CANNOT BE DESIGNED
5	CONNECTION BETWEEN TEMPORARY STEEL TO EXISTING STRUCTURE	WE HAVE SHOW A REASONABLY ROBUST CONNECTION DETAIL BETWEEN THE EXISTING CONCRETE ENCASED STEEL BEAMS AND TEMPORARY STEELWORK, HOWEVER UNTIL INVESTIGATIONS AND A DETAILED SURVEY HAS BEEN COMPLETED THIS CONNECTION CANNOT BE VARIFIED. IF THE EXISTING STRUCTURE IS SIGNIFICANTLY DIFFERENT (OR IN A DIFFERENT LOCATION) TO WHAT WE HAVE ASSUMED THIS CONNECTION WILL NEED TO BE CHANGED

① ON PLAN DENOTES RISKS AND UNKNOWNNS AS STATED IN TABLE ABOVE.



LEVEL 4 OUTLINE TEMPORARY WORKS / DEMOLITION PLAN
SCALE 1:100

TEMPORARY WORKS / DEMOLITION LEGEND

- HATCH DENOTES EXISTING STRUCTURE TO BE DEMOLISHED DURING EARLY WORKS / STAGE 1 DEMOLITION
- HATCH DENOTES PENETRATION IN EXISTING SLAB FOR NEW COLUMNS. TO BE DONE IN A PROPPING SEQUENCE AS THE CONCRETE COLUMNS ARE BUILT.
- 1-EB ON PLAN DENOTES EXISTING BEAM TO BE DEMOLISHED
- 1-EC ON PLAN DENOTES EXISTING COLUMN TO BE DEMOLISHED
- DENOTES EXISTING COLUMN REQUIRING STRENGTHENING WORKS. BREAK OFF EXISTING CONCRETE ENCASEMENT AND RE-POUR NEW CONCRETE COLUMN WITH NEW REINFORCEMENT. SIZE OF NEW CONCRETE TO MATCH EXISTING.

TEMPORARY WORKS COLUMN SCHEDULE			
MARK	SIZE	COMMENTS	TENSION LOAD (SERVICE)

TEMPORARY WORKS STEEL MEMBER SCHEDULE		
MARK	TYPE	SIZE

NOTE
DRAWINGS UPDATED FOR CO-ORDINATION OF
EXTENT OF DEMOLITION. TEMPORARY STEELWORK,
FOUNDATIONS AND CORBEL/BALCONY SUPPORTS ARE
STILL IN DEVELOPMENT.

K	RE-ISSUE FOR INFORMATION	T.M.	L.C.	11.05.18
J	RE-ISSUE FOR INFORMATION	T.M.	L.C.	10.05.18
H	RE-ISSUE FOR INFORMATION	T.M.	L.C.	30.04.18
D	RE-ISSUE FOR INFORMATION	T.M.	L.C.	20.04.18
F	RE-ISSUE FOR INFORMATION	T.M.	M.A.E.	19.03.18
E	RE-ISSUE FOR INFORMATION	T.M.	L.C.	23.02.18
D	RE-ISSUE FOR INFORMATION	T.M.	L.C.	09.02.18
C	RE-ISSUE FOR INFORMATION	T.M.	L.C.	01.02.18
B	RE-ISSUE FOR ECO TENDER	T.M.	L.C.	26.06.17
A	ISSUE FOR ECO TENDER	T.M.	L.C.	19.05.17

Rev Description Eng Draft Date
Project
**SANDSTONE PRECINCT
EDUCATION BUILDING**
23-39 Bridge Street, Sydney 2000, Australia

LEVEL 4 TEMPORARY
WORKS / DEMOLITION PLAN

Design Architect

make

Level 2, 36 Carrington St, Sydney NSW 2000

Executive Architect

Ridley

Governor Philip Tower, Level 21, 1 Farrer Pl, Sydney NSW 2000

Structural Engineer

TTW Taylor
Thomson
Whitting

612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Scale: A0 Drawn: Authorised:

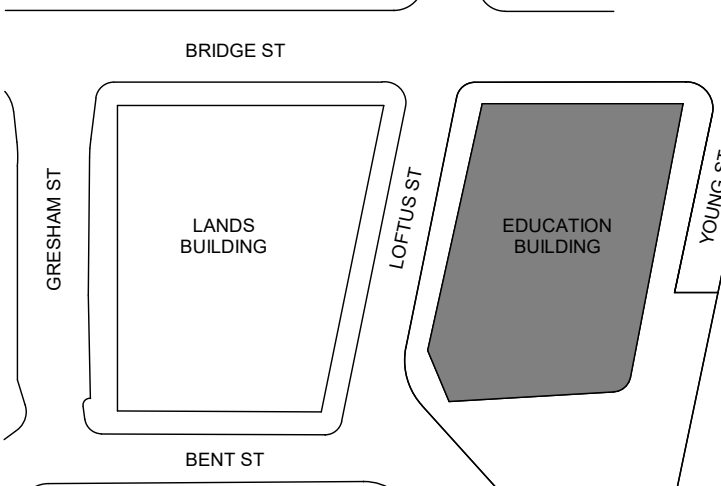
As indicated L.C. B.Y.

Job No: Drawing No: Revision:

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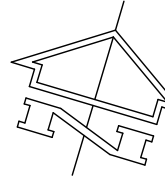
KEY PLAN



DRAWING TO BE PRINTED IN COLOUR

RISKS AND UNKNOWNNS LEVEL 5		
1	EXISTING FLOOR STRENGTH	INVESTIGATIONS ARE REQUIRED TO ASCERTAIN THE STRENGTH OF THE EXISTING FLOOR STRUCTURE. THIS WILL ALLOW US TO PROVIDE TEMPORARY LOADING PLANS WHICH THEN DETERMINES WHAT MACHINERY CAN BE USED AND WHAT BACK PROPPING IS REQUIRED IN DEMOLISHING THE STRUCTURE. IF THE EXISTING STRUCTURE IS FOUND TO BE WEAK, STRENGTHENING MAY BE REQUIRED FOR BOTH THE PERMINANT AND TEMPORARY DESIGN
2	CONNECTION FROM THE EXISTING FLOOR TO THE FAÇADE	THE TEMPORARY WORKS SCHEME RELIES ON THE ADEQUACE OF THE EXISTING CONNECTION BETWEEN THE FAÇADE AND THE EXISTING FLOOR. WE HAVE NOT BEEN ABLE TO INVESTIGATE THIS CONNECTION SO CAN'T CONFIRM ITS ADEQUACE.
3	ASSESSMENT OF THE INTERACTION BETWEEN THE TEMPORARY STEELWORK AND EXISTING FAÇADE	THE TEMPORARY STABILITY SYSTEM HAS BEEN DESIGNED TO LIMIT THE LATERAL DEFLECTION ON THE FAÇADE TO HEIGHT/750 (IN ACCORANCE WITH THE CIRA BEST PRACTICE GUIDE FOR RETENTION OF MASONRY FAÇADES). FOLLOWING THE FAÇADE INTRUSIVE INVESTIGATIONS (TO ASCERTAIN THE MAKE-UP OF THE FAÇADE IE. STONE THICKNESS, BRICKWORK THICKNESS AND CAVITY SIZE) A COMPREHENSIVE ANALYTICAL MODEL OF THE FAÇADE AND STEELWORK WILL BE DEVELOPED. THIS WILL ALLOW US TO PREDICT AREAS WHICH ARE MORE LIKELY TO CRACK. IT SHOULD BE NOTED THAT WHEN UNDERTAKING SUCH MAJOR WORK TO A BUILDING A DEGREE OF CRACKING IS INEVITABLE AND AN ALLOWANCE FOR REPAIR WORK IS REQUIRED
4	STONE CORNICE	THE LARGE PROJECT CORNICE AROUND LEVEL 5 NEEDS TO BE INVESTIGATED TO ASCERTAIN HOW IT IS CURRENTLY SUPPORTED. THE PROPOSED DEMOLITION WILL AFFECT THIS CORNICE ESPECIALLY AT THE POOL LOCATION. THE CORNICE WILL NEED TEMPORARY SUPPORT. VARIOUS OPTIONS HAVE BEEN Tabled TO SUPPORT THIS HOWEVER WITHOUT THE INTRUSIVE INVESTIGATIONS (AND A DETAILED UNDERSTANDING THE EXISTING STRUCTURE) THIS SUPPORT CANNOT BE DESIGNED
5	POOL EXTENT	THE POOL DESIGN AND EXTENT IS AN INTEGRAL FACTOR OF TEMPORARY SUPPORT TO THE NORTHERN FAÇADE. CHANGING THIS EXTENT AFFECTS THE DEMOLITION AND TEMPORARY SUPPORT.
6	LEVEL 5 HERITAGE WALL	THE LEVEL 5 HERITAGE WALL (IN THE NEW POOL AREA) IS PROPOSED TO BE DEMOLISHED. OUR ENTIRE TEMPORARY WORKS SCHEME WOULD CHANGE SIGNIFICANTLY IFF THIS DEMOLITION IS NOT PERMITTED BY THE HERITAGE COUNCIL.
7	CONNECTION BETWEEN TEMPORARY STEEL TO EXISTING STRUCTURE	WE HAVE SHOW A REASONABLY ROBUST CONNECTION DETAIL BETWEEN THE EXISTING CONCRETE ENCASED STEEL BEAMS AND TEMPORARY STEELWORK, HOWEVER UNTIL INVESTIGATIONS AND A DETAILED SURVEY HAS BEEN COMPLETED THIS CONNECTION CANNOT BE VARIFIED. IF THE EXISTING STRUCTURE IS SIGNIFICANTLY DIFFERENT (OR IN A DIFFERENT LOCATION) TO WHAT WE HAVE ASSUMED THIS CONNECTION WILL NEED TO BE CHANGED

1 ON PLAN DENOTES RISKS AND UNKNOWNNS AS STATED IN TABLE ABOVE.



LEVEL 5 OUTLINE TEMPORARY WORKS / DEMOLITION PLAN

SCALE 1:100

TEMPORARY WORKS / DEMOLITION LEGEND

- HATCH DENOTES EXISTING STRUCTURE TO BE DEMOLISHED DURING EARLY WORKS / STAGE 1 DEMOLITION
- HATCH DENOTES PENETRATION IN EXISTING SLAB FOR NEW COLUMNS. TO BE DONE IN A PROPPING SEQUENCE AS THE CONCRETE COLUMNS ARE BUILT.
- 1-EB ON PLAN DENOTES EXISTING BEAM TO BE DEMOLISHED
- 1-EC ON PLAN DENOTES EXISTING COLUMN TO BE DEMOLISHED
- DENOTES EXISTING COLUMN REQUIRING STRENGTHENING WORKS. BREAK OFF EXISTING CONCRETE ENCASEMENT AND RE-POUR NEW CONCRETE COLUMN WITH NEW REINFORCEMENT. SIZE OF NEW CONCRETE TO MATCH EXISTING.

TEMPORARY WORKS COLUMN SCHEDULE

MARK	SIZE	COMMENTS	TENSION LOAD (SERVICE)
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TEMPORARY WORKS STEEL MEMBER SCHEDULE

MARK	TYPE	SIZE
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NOTE
DRAWINGS UPDATED FOR CO-ORDINATION OF
EXTENT OF DEMOLITION. TEMPORARY STEELWORK,
FOUNDATIONS AND CORBEL/BALCONY SUPPORTS ARE
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SANDSTONE PRECINCT

EDUCATION BUILDING

23-39 Bridge Street, Sydney 2000, Australia

Sheet Subject

LEVEL 5 TEMPORARY

WORKS / DEMOLITION PLAN

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