GENERAL NOTES

CONFORM TO THE FOLLOWING, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE INDICATED. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS AS APPLICABLE.

### 1. TYPICAL CONDITIONS:

TYPICAL DETAILS APPLY TO ALL CONSTRUCTION EXCEPT WHERE SHOWN DIFFERENTLY

2. REFERENCED DOCUMENTS:
"ALTA/ACSM LAND TITLE SURVEY LOTS 1,2 AND A PORTION OF LOT 3 ADDISON STREET TRACT, ALIANASM LAND THE SURVEY LOT 18, AND FLOT 85, KELLERSBERGER'S MAP OF RANCHO V. AND D. PERALTA LOCATED AT 1116 UNIVERSITY AVENUE, CITY OF BERKELEY, COUNTY OF ALAMEDA, CALIFORNIA. MAY 1, 2006" BY MORAN ENGINEERING, INC., BERKELEY, CALIFORNIA. REPORT "1122 UNIVERSITY AVENUE CONDOMINIUM PROJECT SOIL & FOUNDATION INVESTIGATION" BY LAWRENCE B. KARP CONSULTING GEOTECHNICAL ENGINEER, ORINDA,

UNDERPINNING AND SHORING WILL EXTEND INTO AND BE ABANDONED IN PLACE ON ADJACENT PROPERTIES, STREETS, AND EASEMENTS.. THE OWNER SHALL OBTAIN WRITTEN PERMISSION FROM THE ADJACENT PROPERTY OWNERS, WHERE REQUIRED, FOR SHORING

MAY BE ASTM A38.

B. LEAN CONCRETE BACKFILL: MINIMUM OF 1½ SACK OF CEMENT PER CUBIC YARD.

C. SOLDIER BEAM: MINIMUM OF 4 SACK OF CEMENT PER CUBIC YARD.

D. WOOD LAGGING SHALL BE DOUGLAS FIR-LARCH OR HEMLOCK FIR GRADE No.3 OR

E. WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D.1.1 WELDING CODE.

ELECTRODES SHALL BE E/U.
EPOXY ANCHORS SHALL BE INSTALLED WITH SIMPSON STRONG-TIE SET EPOXY PER ICC-ES ESR-1772.

C. SOLDIER BEAMS SHALL BE INSTALLED 0" TO 3" FROM THE BACK OF THE NEW BUILDING

WALL SOLDIER BEAMS SHALL NOT ENCROACH ON PERMANENT CONCRETE WALL.

D. PLACE SOLDIER BEAMS AND FILL THE SHAFT, AS SPECIFIED BY THE DETAILS, IN A
TIMELY MANNER. CONFIRM SHAFT HAS NOT CAVED PRIOR TO PLACEMENT OF
CONCRETE. RETRACT CASING, IF USED, AS CONCRETE IS PLACED. PLACE CONCRETE

EVENLY ON ALL SIDES OF THE SOLDIER BEAM.

E. EXCAVATE AND PLACE LAGGING IN SPACES BETWEEN SOLDIER BEAMS WHILE EXCAVATING. EXPOSED EXCAVATION SHALL NOT EXCEED 5-0" IN HEIGHT, AND SHOULD BE FURTHER REDUCED TO PREVENT SLOGHING OF GROUND OR CAVING OF SOIL.

PACK SMALL VOIDS BETWEEN LAGGING BOARDS AND EXCAVATION FACE TIGHT WITH SITE SOIL AT THE TIME OF LAGGING PLACEMENT TO PROVIDE BEARING OF LAGGING AGAINST EARTH, ALTHOUGH NOT EXPECTED, LARGER VOIDS RELATED TO CAVING OF

PHOTOGRAPHS TAKEN OF IMPROVEMENTS NEAR THE PLANNED SHORING, INCLUDING INTERIORS OF ADJACENT BUILDINGS, TO ESTABLISH EXISTING CONDITIONS.

B. MONITORING POINTS LOCATED AT THE WEST BUILDING CORNERS OF ?? UNIVERSITY AVENUE BUILDING SHALL BE SURVEYED FOR HORIZONTAL AND VERTICAL MOVEMENT AT THE FOLLOWING INTERVALS:

a) PRIOR TO SHORING/UNDERPINNING INSTALLATION
b) AFTER INSTALLATION OF UNDERPINNING
c) AFTER EXCAVATION REACHES BOTTOM OF EXCAVATION.
C. SHORING CONTRACTOR SHALL TERMINATE EXCAVATION AND NOTIFY GENERAL CONTRACTOR IF MORE THAN 0.03 FEET OF HORIZONTAL OR VERTICAL MOVEMENT IS OBSERVED AT THE INDERPINNING

OBSERVED AT THE UNDERPINNING.

D. SURVEY MONITORING RESULTS SHALL BE SUBMITTED TO THE SHORING CONTRACTOR WITHIN 2 DAYS OF FIELD SURVEY MEASUREMENTS.

DURING SHORING AND UNDERPINNING THE GENERAL CONTRACTOR SHALL VISUALLY MONITOR THE SHORING AND UNDERPINNING SYSTEMS AND NEARBY IMPROVEMENTS

B. INTERMITTENT OBSERVATION OF SOLDIER PILE AND LAGGING INSTALLATION.

ALTERNATE BUILDING

CENTERLINE

CLEAR CONTINUOUS PENNY (NAIL SIZE) DETAIL

EXISTING FACH FACE

EACH SIDE

NEW

MACHINE BOLT

NOT APPLICABLE NUMBER NOT TO SCALE

REINFORCEMEN

REQUIRED
SAD SEE ARCHITECTURAL DRAWINGS
SYM
T.O.S. TOP OF STEEL, TOP OF SHORING
UON
UNLESS OTHERWISE NOTED

ON CENTERS PLATE

VERTICAL

AT (SPACING)

BOTTOM OF EXCAVATION BOTTOM OF EXCAVATION BOTTOM OF TOE, STEEL BEAM CALIFORNIA BUILDING CODE

ON A DAILY BASIS FOR INDICATIONS OF MOVEMENT. THE SHORING CONTRACTOR SHALL STOP EXCAVATION OPERATIONS IF DEFLECTION, CRACKING, OR OTHER DISTRESS IS OBSERVED, AND SHALL IMMEDIATELY NOTIFY THE GENERAL CONTRACTOR.

WITH FLOWABLE SAND-CEMENT SLURRY OR LEAN MIX CONCRETE GROUT.

THE SOIL FROM BEHIND ALREADY PLACED LAGGING SHALL BE PROMPTLY BACKFILLED.

AND UNDERPINNING ENCROACHMENTS PRIOR TO CONSTRUCTION

MAY BE ASTM A36.

FLECTRODES SHALL BE E70.

OBSERVED AT THE UNDERPINNING

ALT BLDG

B.O.E. B.O.T. CBC

d DET

(E) EF ES MAX MB MIN

No. NTS

UON VERT.

3. SIMILARITY:
IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.

4. EXISTING CONDITIONS:
CONTRACTOR SHALL INSPECT ALL EXISTING CONDITIONS THAT AFFECT THE WORK SHOWN AND SHALL NOTIFY ENGINEER OF ANY EXISTING CONDITIONS WHICH CONFLICT WITH OR DIFFER FROM THE NEW WORK SHOWN. CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL THESE CONFLICTS AND/OR DIFFERENCES ARE RESOLVED.

5. <u>SUBMITTALS:</u>
ITEMS SUBMITTED FOR REVIEW SHALL HAVE CONTRACTOR'S APPROVAL AND DATE INDICATED ON EACH COPY, SUBMIT TWO COPIES IN ADDITION TO COPIES DESIRED TO BE RETURNED TO

6. BRACING AND SHORING:
THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR THE CONDUCT OF THE WORK,
INCLUDING ALL CONSTRUCTION METHODS AND PROCEDURES; SITE SAFETY, AND METHODS, DESIGN, AND MATERIALS FOR TEMPORARY VERTICAL AND LATERAL SUPPORT OF EXISTING AND NEW STRUCTURES. ENGINEER'S SITE OBSERVATION VISITS SHALL NOT BE INTERPRETED AS A REVIEW OF CONTRACTOR'S SAFETY MEASURES.

7. <u>CODE:</u>
CALIFORNIA BUILDING CODE, 2001 EDITION.

# 8. SHORING SYSTEM DESIGN CRITERIA: CANTILEVER ACTIVE SOIL PRESSURE

ALLOWARI F PASSIVE SOIL PRESSURE (APPLIED OVER TWO DIAMETERS)

9. GEOTECHNICAL ENGINEER'S REVIEW:
PROJECT GEOTECHNICAL ENGINEER SHALL VERIFY SOIL STRATA DURING SOLDIER PILE INSTALLATION AND NOTIFY THE PROJECT STRUCTURAL ENGINEER IF FIELD CONDITIONS ARE DIFFERENT FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT

10. DEWATERING:
GENERAL CONTRACTOR SHALL PROVIDE DEWATERING IF REQUIRED TO PREVENT HEAVING
OF THE SUBGRADE OR FLOWING OR RUNNING GROUND AT THE EXCAVATION FACE.
DEWATERING SHALL BE INSTALLED AND MAINTAINED SUCH SOIL PARTICLES ARE NOT REMOVED BY THE DEWATERING SYSTEM. GROUND WATER SHALL BE MAINTAINED AT LEAST 2 FEET BELOW BOTTOM OF EXCAVATION.

11. MAXIMUM SURCHARGES:
A. UNIVERSITY AVENUE SIDE: 50 PSF. B OTHER SIDES: 20 PSF

- B. OTHER SIDES: 20 PSF.
  C. POINT LOADS (OUTRIGGERS, H20 TRUCK TIRES, ETC.) SHALL REMAIN 5 FEET AWAY FROM TOP OF SHORING. CONCRETE PUMP/CRANE OUTRIGGERS (UP TO 90,000 LBS. POINT LOADS) SHALL BE PLACED ON 5'X10' MAT OF 12'X12' TIMBERS.
  D. EXCAVATOR LOADS AND OTHER HEAVY SURCHARGES SHALL BE CONFIRMED WITH THE GENERAL CONTRACTOR PRIOR TO SHORING BEAM ORDER AND MAY REQUIRE ADDITIONAL DRILLED PIERS AND/OR OTHER MEASURES TO PREVENT OVERSTRESSING THE SHORING SYSTEM

12. COORDINATION:
DEMOLITION, GENERAL SITE EXCAVATION, SITE DEWATERING AND REMOVAL OF EXISTING OBSTRUCTIONS AND FOUNDATIONS AND NEW CONSTRUCTION AND UTILITY INSTALLATION SHALL BE COORDINATED WITH INSTALLATION OF SHORING AND UNDFERPINNING SYSTEM TO PREVENT LOSS OF GROUND AND CAVING OF BANKS.

THE GENERAL CONTRACTOR SHALL VERIFY EXISTING GRADES AND PLANNED BOTTOM OF EXCAVATION (B.O.E.) SHOWN ON THESE DRAWINGS, EXCAVATION SHALL NOT EXTEND BELOW THE BOTTOM OF EXCAVATION (B.O.E.) SHOWN ON THE STRUCTURAL AND ARCHITECTURAL

14. GRADES AND DIMENSIONS:
GENERAL CONTRACTOR SHALL VERIFY ALL GRADES AND DIMENSIONS. SEE PERMIT
DRAWINGS AND SPECIFICATIONS FOR ALL INFORMATION RELATIVE TO NEW AND EXISTING CONSTRUCTION AND CONDITIONS.

15. MONITORING:
DURING SHORING, UNDERPINNING AND NEW CONSTRUCTION GENERAL CONTRACTOR SHALL
MONITOR THE SHORING AND UNDERPINNING SYSTEM AND ADJACENT IMPROVEMENTS FOR
INDICATIONS OF MOVEMENT OR LOSS OF GROUND. GENERAL CONTRACTOR SHALL STOP EXCAVATION OPERATIONS AND BACKELL AGAINST EXCAVATION FACE IF LOSS OF GROUND. DEFLECTION OR DISTRESS OF THE SHORING AND UNDERPINNING SYSTEMS OR ADJACENT IMPROVEMENTS IS OBSERVED.

DESIGN OF TEMPORARY SLOPES IS NOT INCLUDED IN THE SCOPE OF WORK, TEMPORARY SLOPES, IF UTILIZED, SHALL CONFORM TO APPLICABLE STATE OF CALIFORNIA CODE OF REGULATIONS TITLE 8, SUBCHAPTER 4 CONSTRUCTION SAFETY ORDERS (COLOSHA SAFETY

## 17. EXISTING UTILITIES:

GENERAL CONTRACTOR SHALL CONFIRM AND/OR DETERMINE THE LOCATION OF ALL UTILITIES GENERAL CONTRACTOR SHALL CONTRICTION MUDION DELERMINE THE LOCATION OF ALL DISTRICTION OF AND STREET VAULTS. MEASURE INVERTS, AND CONFIRM CLEARANCE FROM VAULTS AND EXISTING CONDUITS.

Planning and Development Department
BUILDING AND SAFETY DIVISIO
APPROVED

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REVISIONS

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