

CAREFULLY RAKE OUT AND REMOVE LOOSE MORTAR IN EXISTING STONE RUBBLE FOUNDATION WALL AND  
PRIVE A NEW 3,500 PSI REMOVABLE CONCRETE INTO MORTAR JOINTS AND 4" THICK VERTICAL SLAB  
IN FRONT OF THE EXISTING FOUNDATION WALL. REINFORCE WITH #4 VERTICAL AND HORIZONTAL REBAR  
SPACED 12" C/C AT MID-DEPTH OF SLAB. END SLAB AT 45-DEGREE INTERSECTING FOUNDATION WALL.

VOIDS BETWEEN ABUTTING NEW AND EXISTING FOUNDATION WALLS TO  
BE FILLED SOLID WITH FLOW-ABLE CONCRETE

OUTLINE OF EXIST.  
#22" THICK STONE  
FOUNDATION WALL

PRIOR TO THE REMOVAL OF ANY MASONRY, CONSTRUCT SHORING  
CONSISTING OF ADJUSTABLE STEEL JACK POSTS SPACED 4' APART WITH  
TOP & BOTTOM W8x15 L-BEAMS AND 3x8" PLATES FROM CELLAR UP TO  
UNDERSIDE OF THE FLAT ROOF FRAME -- LOCATION OF SHORING MAY BE  
ADJUSTED TO AVOID INTERFERENCE AS DIRECTED BY THE ENGINEER  
(SEE TYPICAL SHORING DETAILS)

CAREFULLY REMOVE AND DISPOSE OF  
EXISTING FULL-HEIGHT 8" THICK  
CONCRETE BLOCK MASONRY WALLS  
THAT SURROUND THE EXISTING OIL  
TANK ROOM -- G. C. TO ALLOW FOUR  
(4) COURSES OR A 32" HIGH WALL  
SURROUNDING THE OIL TANK TO  
REMAIN IN ORDER TO CONTAIN AN  
OIL SPILL IN THE EVENT OF A TANK  
FAILURE, AS IS REQUIRED BY THE  
BUILDING CODE. FOLLOWING  
COMPLETION OF FOUNDATION WORK,  
THE FULL-HEIGHT WALLS SHALL BE  
RESTORED.

±2 TO 3 FEET FROM INSIDE FACE OF FOUNDATION WALL TO CENTERLINE OF SHORING

PANEL DEPTH (SEE PLAN)

PANEL WIDTH, EQUAL SIZE -- MAX. 36" WIDE (SEE ELEVATION)

±64 LINEAR FEET (HATCHED AREA) OF EXISTING STONE RUBBLE FOUNDATION  
WALL TO BE CAREFULLY REMOVED BY HAND AND REPLACED USING  
UNDERPINNING METHODS

OUTLINE OF PROPOSED CONCRETE PINS TO BE SEQUENTIALLY INSTALLED TO  
DIMENSIONS AND DEPTHS, AS OUTLINED IN THIS DRAWING -- SEE TYPICAL  
UNDERPINNING DETAIL

VOIDS BETWEEN ABUTTING NEW AND EXISTING FOUNDATION  
WALLS TO BE FILLED SOLID WITH FLOW-ABLE CONCRETE

ADJUST. 10-TON JACK POST AT 4' -0"

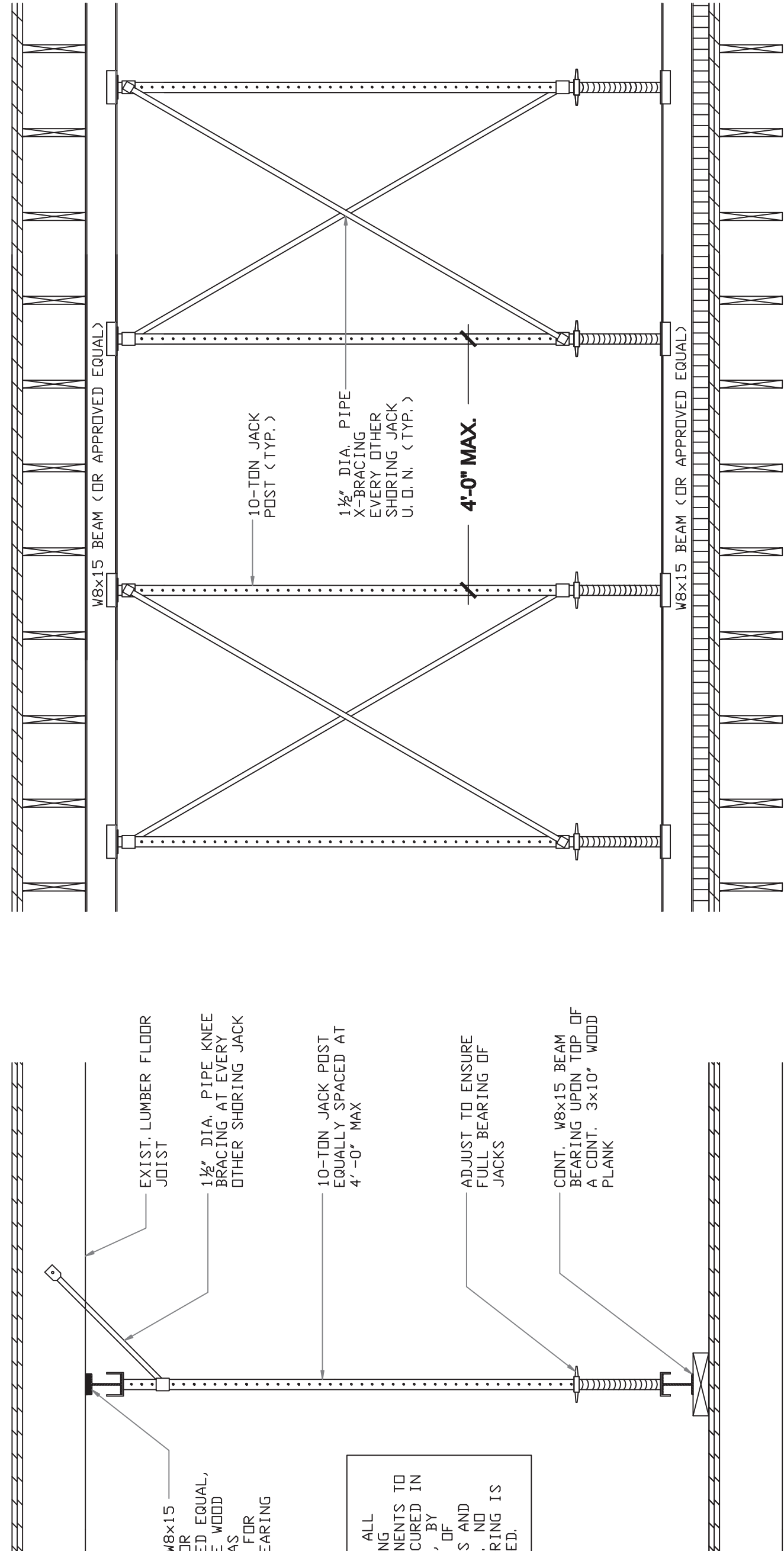
X-BRACING AT EVERY OTHER BAY (TYP.)

KNEE BRACING EVERY OTHER POST (TYP.)

LINE OF TEMPORARY SHORING (TYP.)

# PARTIAL CELLAR PLAN SHOWING EXTENT OF FOUNDATION REPLACEMENT USING UNDERPINNING METHODS

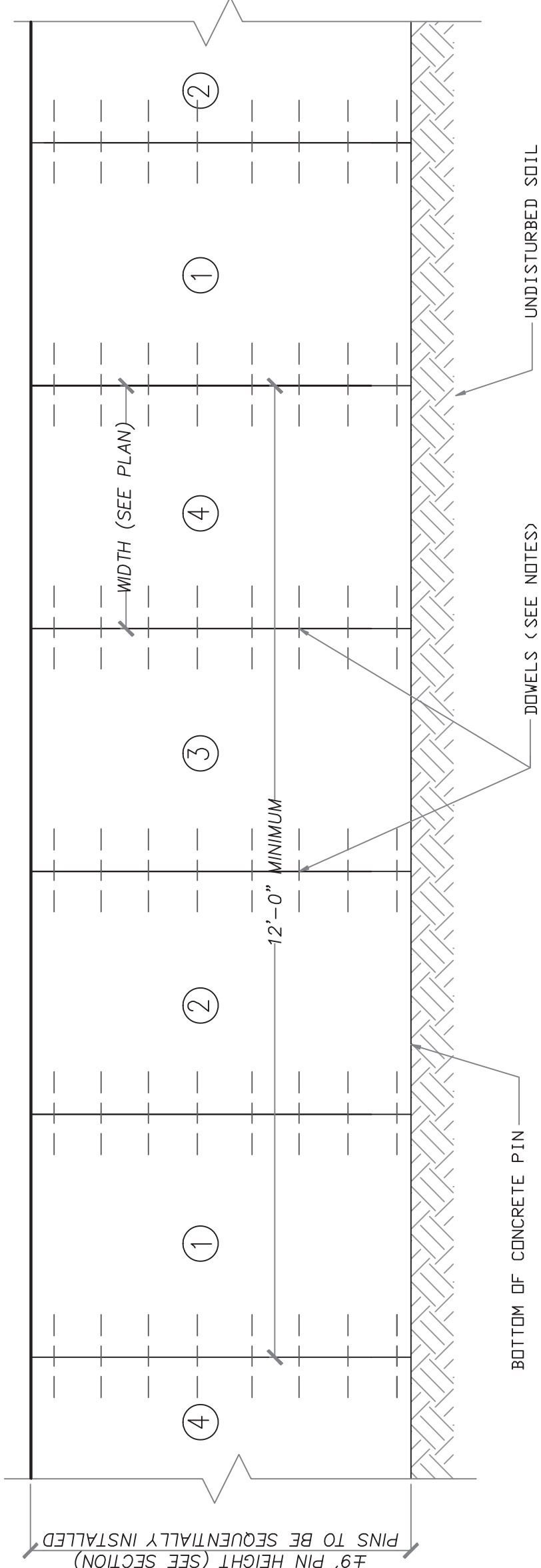
SCALE: 3/8" = 1' -0"



ACTUAL SHORING DESIGN TO BE PREPARED, SIGNED AND  
SEAL BY A LICENSED PROFESSIONAL ENGINEER AND SHALL  
BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL.  
SHORING DESIGN SHALL ALSO BE FILED WITH AND WORK  
PERMIT OBTAINED BY THE NYCDOB PRIOR TO INSTALLATION.

## TYPICAL SHORING DETAILS

SCALE: N.T.S.



## NEW FOUNDATION WALL CONSTRUCTION SEQUENCE ELEVATION

SCALE: N.T.S.

TYPICAL NEW FOUNDATION WALL INSTALLATION SEQUENCE NOIE:  
EXCAVATE AND PLACE PANELS ① FIRST, ② SECOND, ③ THIRD, ④ LAST.  
MINIMUM CLEAR DISTANCE BETWEEN SIMULTANEOUS CUTS SHALL BE 12' -0".

- BEFORE COMMENCING WORK, CONTRACTOR SHALL EXAMINE THE ADJOINING PROPERTIES AND STRUCTURES. SHOULD ANY CONDITIONS BE UNCOVERED WHICH PREVENTS THE PROPER EXECUTION OF THESE SPECIFICATIONS, THE CONSTRUCTION SHALL CEASE AND THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY.
- THE FOUNDATION INSTALLATION SHALL BE DELICATE AND METHODOICAL PROCESS AND SHALL BE COMPLETED WITHIN 10 DAYS OF THE COMMENCEMENT OF THE WORK. THE TYPE OF WORK FOR A LEAST 5 YEARS. THE SELECTION OF THE CONTRACTOR SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO THE AUTHORIZATION TO PROCEED WITH ANY WORK. NO WORK SHALL PROCEED WITHOUT A DETAILED REVIEW OF THE MEANS AND METHODS WITH THE ENGINEER OF RECORD.
- DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL MAINTAIN CONTINUAL SAFETY OF EXISTING STRUCTURES. SHOULD THE CONTRACTOR BECOME AWARE OF ANY SITUATION THAT REQUIRES THE FURTHER INVESTIGATION OR STUDY, SUCH AS SETTLEMENT, CRACKS, ADDITIONAL DEFLECTIONS OF STRUCTURAL MEMBERS, UNUSUAL SOIL CONDITIONS, ETC., WORK SHALL CEASE AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION OF ALL EXCAVATION, BACKFILL, FORMING, TEMPORARY SUPPORT, AND OTHER OPERATIONS AS NECESSARY TO PERFORM THE WORK AS SHOWN AND SPECIFIED ON THE DRAWINGS. REQUIRED BY FIELD CONDITIONS OR AS OTHER WISE DIRECTED BY THE ENGINEER.
- PLACE PINS AS SHOWN ON THIS DRAWING.
- PINS SHALL BE BACKFILLED BEFORE PROCEEDING TO THE NEXT PANEL SEQUENCE. PINS SHALL BE PLACED THE SAME DAY AS EXCAVATED. NO EXCAVATIONS SHALL BE PERMITTED TO REMAIN OPEN OVERNIGHT OR UNATTENDED. NO PANEL EXCAVATIONS SHALL BE PERFORMED DURING RAIN OR SNOW (OR WHEN FORECAST).
- PINS SHALL BE INSTALLED IN MAXIMUM WIDTHS AS SHOWN ON THIS DRAWING. WITH A MINIMUM OF 12" BETWEEN PINS. PINS SHALL BE INSTALLED IN SUCH A MANNER THAT THE CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 100 PSI. THE EXISTING WALL IS TO REMAIN THE 2' SPACE IS TO BE FILLED SOLID WITH DRY PACKED.

- ALL PINS SHALL REST ON UNDISTURBED SOIL HAVING A MINIMUM BEARING CAPACITY OF 6,000 PSI.
- CONCRETE MUST ACHIEVE 85% COMPRESSIVE STRENGTH (MIN.) BEFORE PROCEEDING TO THE NEXT GROUPING OF CUT-OUTS AND PINS.
- THIS DETAIL IS REPRESENTATIVE OF ONE METHOD OF UNDERPINNING UNDER IDEAL CIRCUMSTANCES. THE CONTRACTOR MUST EVALUATE THE PROJECT, DETERMINE EXACT METHODS AND PROCEDURES TO BE FOLLOWED, AND MAKE SUCH RECOMMENDATIONS TO THE ENGINEER. DETAILS OF UNDERPINNING SHALL BE SUBMITTED TO THE ENGINEER.
- IT IS ANTICIPATED THAT THE NEW FOUNDATION SHALL HAVE A UNIFORM WALL FOOTING. WIDTH OF EACH PIN IS SHOWN ON THIS DRAWING AND SHALL BE 24" LONG #5 HORIZONTAL DowELS AT 12" ON CENTER VERTICALLY BETWEEN PINS.
- PROVIDE CONCRETE MORTAR, GROUT OR DRY PACK TO COMPLETELY FILL ALL JOINTS BETWEEN THE PANELS AND THE UNDERSIDE OF THE EXISTING FOUNDATION SYSTEM. MORTAR, GROUT OR DRY PACK SHALL BE NON-SHRINK, NONMETALLIC, HAVING A STRENGTH OF 5,000 PSI AT 28 DAYS.
- THE CONTRACTOR SHALL REVIEW ALL AVAILABLE DATA AND EXISTING CONDITIONS TO BE DETERMINED FOR THE NECESSITY OF RELoading AND/OR JACK PILING TO PROTECT STRUCTURE PRIOR TO COMMENCEMENT OF UNDERPINNING OPERATIONS.
- THE CONTRACTOR SHALL FILE THE SELECTED AND APPROVED PROCEDURE WITH THE ENGINEER. CONSTRUCT NEW FOUNDATION IN THE SEQUENCE SHOWN ON THE DRAWINGS.
- ALL WORK ARE SUBJECT TO CONTROLLED INSPECTIONS BY THE ENGINEER.

## NEW FOUNDATION WALL INSTALLATION SEQUENCE NOTES

## TYPICAL NEW FOUNDATION INSTALLATION DETAILS