SOIL SUPPORT SYSTEM: PLACEMENT. VAPOR RETARDER: MIX DESIGN: - SLUMP 3" \pm 1". SLUMP AT POINT OF PLACEMENT SHALL NOT EXCEED 6". NO SUPER-PLASTICIZER. NO AIR ENTRAINMENT. CONCRETE. - CONFIRM BACKUP PLANT HAS SAME MATERIALS. FOR INITIAL STRIKE-OFF. FINISHING PROCEDURES: DIRECTIONS TO CLOSE THE SURFACE. SLAB REINFORCEMENT: - CONTINUE ALL REINFORCING THROUGH SAW-CUT CONTRACTION JOINTS. <u>JOINTS:</u> SLAB HAS BEEN PLACED. CONSTRUCTION: - CONTINUE DOWELS THROUGH INTERSECTION IN ONE DIRECTION AND STOP

SLAB CONSTRUCTION NOTES

- SUBGRADE WILL CONSIST OF ENGINEERED SELECT FILL MATERIAL. - SUBGRADE SHOULD BE PROOF-ROLLED PRIOR TO CONCRETE PLACEMENT.

- NO SAND WILL BE USED FOR FINE GRADING PURPOSES UNDER SLABS. ELEVATION OF BASE SHOULD BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONCRETE

WILL BE A MINIMUM 10 MILL IN THICKNESS LOCATED IMMEDIATELY BELOW SLAB AND WITH SEAMS PROPERLY TAPED.

2. INTERIOR CONCRETE FLOOR SLABS:

3,500 PSI CONCRETE AT 28 DAYS.

W/C RATIO: .53 MAXIMUM.

NO FLY ASH IN SLAB CONCRETE.

QUALITY ASSURANCE AND MAINTAINING CONSISTENCY: CONSISTANT SLUMP AT POINT OF DEPOSIT CRITICAL TO UNIFORM SET TIME FOR

TESTING LAB WILL CONTROL SLUMP AND ONLY TESTING LAB CAN ADD WATER ON

- TEST FOR AIR CONTENT WHEN CONCRETE SAMPLES TAKEN.

CONCRETE SUPPLIER WILL INFORM TESTING LAB OF MAXIMUM WATER ALLOWABLE THAT CAN BE ADDED ON JOBSITE BEFORE W/C RATIO IS EXCEEDED.

CONCRETE SUPPLIER: EQUIPMENT AND BACKUP PLAN:

- USE SAME PLANT TO SUPPLY ALL CONCRETE ON A PLACEMENT IF AT ALL POSSIBLE.

EVALUATE TRUCKS BEFORE CONSTRUCTION.

- DISTANCE TO PLANT AND BACKUP PLANT.

- QC REPRESENTATIVE WILL BE ON SITE FOR AT LEAST THE FIRST POUR.

CONSISTENT DELIVERY VERY IMPORTANT TO AVOID INCREASING POTENTIAL FOR DIFFERENTIAL SET.

PLACEMENT PROCEDURES:

FIRST POUR WILL BE PUMPED IN A WIDTH OF ONE COLUMN BAY USING A LASER SCREED

- CONCRETE WILL BE DELIVERED AT A RATE OF 150 CUBIC YARDS PER HOUR.

SLAB CONCRETE IS TO BE PUMPED UNLESS THE CONTRACTOR CAN DEMONSTRATE THAT THE SUBGRADE WILL SUPPORT LOADED CONCRETE TRUCKS WITHOUT RUTTING.

- SUBGRADE IS CRITICAL IF CONCRETE IS TO BE TAILGATED.

A 10 FEET WIDE BULL FLOAT WILL BE USED AFTER INITIAL STRIKE-OFF IN MULTIPLE

NEXT A 10 FEET WIDE MODIFIED HIGHWAY STRAIGHTEDGE WILL BE USED TO RESTRAIGHTEN THE FLOOR IN MULTIPLE DIRECTIONS.

- FIRST POWER PASS WITH RIDING TROWELS EQUIPPED WITH FLOAT DISHES (PANS).

- RESTRAIGHTEN FLOOR AGAIN WITH 10 FEET BUMP CUTTER.

FIRST FLOOR PLACEMENT BECOMES THE STANDARD OF ACCEPTANCE FOR THE PROJECT RELATIVE TO UNIFORMITY OF COLOR AND TEXTURE AND ABSENCE OF TROWEL MARKS.

- TYPE: #3 DEFORMED REINFORCING BARS AT 18 INCHES ON CENTER, EACH WAY.

PLACEMENT: 2" CLEAR FROM TOP SURFACE.

- PROVIDE #4 BAR 5 FEET LONG ACROSS RE-ENTRANT CORNERS. - TERMINATE REINFORCING 3" SHORT OF CONSTRUCTION JOINTS.

- LOCATION: AT COLUMNS, BOLLARDS, OTHER PROJECTIONS.

DO NOT ALLOW STANDING WATER IN BLOCKOUTS FOR EXTENDED PERIOD OF TIME AFTER

GEOMETRY: ROUND BLOCKOUTS MAY BE USED AROUND ALL COLUMNS AT CONTRACTOR'S

 BUTT JOINTS ONLY - NO KEYED JOINTS. DO NOT EXTEND DOWELS TO JOINT INTERSECTION FROM OPPOSING DIRECTIONS -

APPROXIMATELY 4' SHORT OF INTERSECTION IN OPPOSING DIRECTION. SIZE/SPACING SHALL BE 5/8 " X 2' SMOOTH DOWELS @ 18" OC WITH ONE END

ALIGNMENT IS CRITICAL IN BOTH PLAN AND ELEVATION.

1) SLAB CONSTRUCTION NOTES

DO NOT LEAVE MIS-ALIGNED DOWELS IN PLACE FOR SECOND POUR AT A CONSTRUCTION IF CONSTRUCTION JOINTS ARE TO BE SAW CUT, TOOL JOINTS TO PROVIDE A CLEAN LINE

FOR SAW-CUT.

SAW-CUT CONTRACTION:

- SPACING: 15'-0" OC EW MAXIMUM.

MODIFY LOCATION AT BUILDING PERIMETER TO PROVIDE SAW-CUT JOINT AT RE-ENTRANT

- DEPTH: MINIMUM 1" DEEP FOR SOFF-CUT, 1/4 OF SLAB THICKNESS IF WET CUT. TIMING: AS SOON AS JOINT CAN BE CUT WITHOUT RAVELING FROM COMPLETION OF FINISHING

OPERATIONS. SAW CUT COMPLETELY THROUGH FORMS.

JOINT PROTECTION: (FIRST BAY ONLY AROUND BUILDING PERIMETER - ALTERNATE)

JOINT FILLER MAY BE USED ON THIS PROJECT.

- ACCEPTABLE PRODUCTS: MM-80 OR EUCO 700 ONLY.

- STRICTLY FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION. TIMING: 60 TO 90 DAYS; DELAY AS LONG AS POSSIBLE (IT TAKES 1 YEAR FOR CONCRETE TO SHRINK 90% OF TOTAL).

CALL BACK: 1-YEAR CALL BACK OF CONTRACTOR TO REPAIR JOINTS THAT FAIL AS A RESULT OF CONTINUED CONCRETE SHRINKAGE.

5. FLOOR SURFACE REQUIREMENTS:

SPECIFIED FLATNESS/LEVELNESS VALUES: FF 35/FL 25 (APPLIES TO COMPLETED SLAB)

- AREA-WEIGHTED TO COMBINE RESULTS OF MULTIPLE PLACEMENTS.

MINIMUM LOCAL FLATNESS/LEVELNESS VALUES: FF 20/FL 15 (APPLIES TO ALL PARTS OF

MINIMUM SIZE OF SLAB TO WHICH MLV APPLIES IS BOUNDED BY CONSTRUCTION AND/OR

TESTING LAB WILL TEST ALL PLACEMENTS IN ACCORDANCE WITH ASTM E 1155 TO CONFIRM F-NUMBERS AND ADEQUACY OF FINISHING PROCEDURES.

CURING/SEALER:

- DIAMOND HARD WILL BE USED TO CURE AND SEAL WAREHOUSE FLOOR SLABS.

- INSTALL SEALER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

SPRAY EDGE OF ALL POURS ONCE FORMS ARE REMOVED WITH CURING COMPOUND PRIOR TO ADJACENT PLACEMENTS.

APPEARANCE:

 AVOID THROWING PASTE DURING INITIAL POWER FLOATING (THIS LEADS TO DISCOLORATION). - PROVIDE SUFFICIENT OUTRIGGER PROTECTION FOR ALL SLAB-SUPPORTED CRANES.

- PANELS SHALL NOT BE ERECTED FROM THE BUILDING SLAB.

ANY CRACKS THAT DEVELOP WILL REQUIRE REPAIR IF THEY OPEN MORE THAN 0.020"

(APPROXIMATE CREDIT CARD THICKNESS) OR BEGIN TO BREAK DOWN AT THE SURFACE. A FORMAL WALK-THROUGH SHOULD BE CONDUCTED JUST PRIOR TO THE END OF THE

ONE-YEAR WARRANTY PERIOD TO IDENTIFY CRACKS THAT REQUIRE REPAIR.

10 MINUTE CONCRETE MENDER AS A REPAIR MATERIAL IS RECOMMENDED (MANUFACTURER:

ROADWARE, INC. OF ST. PAUL, MN).

 KEEP THE SLAB CLEAN DURING CONSTRUCTION. - AVOID STORAGE OF REINFORCING ON THE SLAB SURFACE; USE DUNNAGE.

AVOID STORAGE OF SOIL AND/OR AGGREGATE ON THE SLAB SURFACE (CAUSES

DISCOLORATION AND/OR GOUGING OF THE SURFACE WHEN MOVED).

AVOID UNNECESSARY VEHICLES ON THE SLAB; DIAPER THOSE THAT MUST BE ALLOWED ON

THE SLAB SURFACE. MAINTAIN CLEANING CHEMICALS ON-SITE AND QUICKLY CLEAN ANY LEAKS OF HYDRAULIC

FLUID OR OIL.

6. PROBLEM RECOGNITION/PREVENTION/REMEDIES:

PLASTIC SHRINKAGE: CONTRACTOR SHALL HAVE CON-FILM ON-SITE TO HELP PREVENT CRACKING FROM OCCURRING.

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DO NOT SCALE DRAWING

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