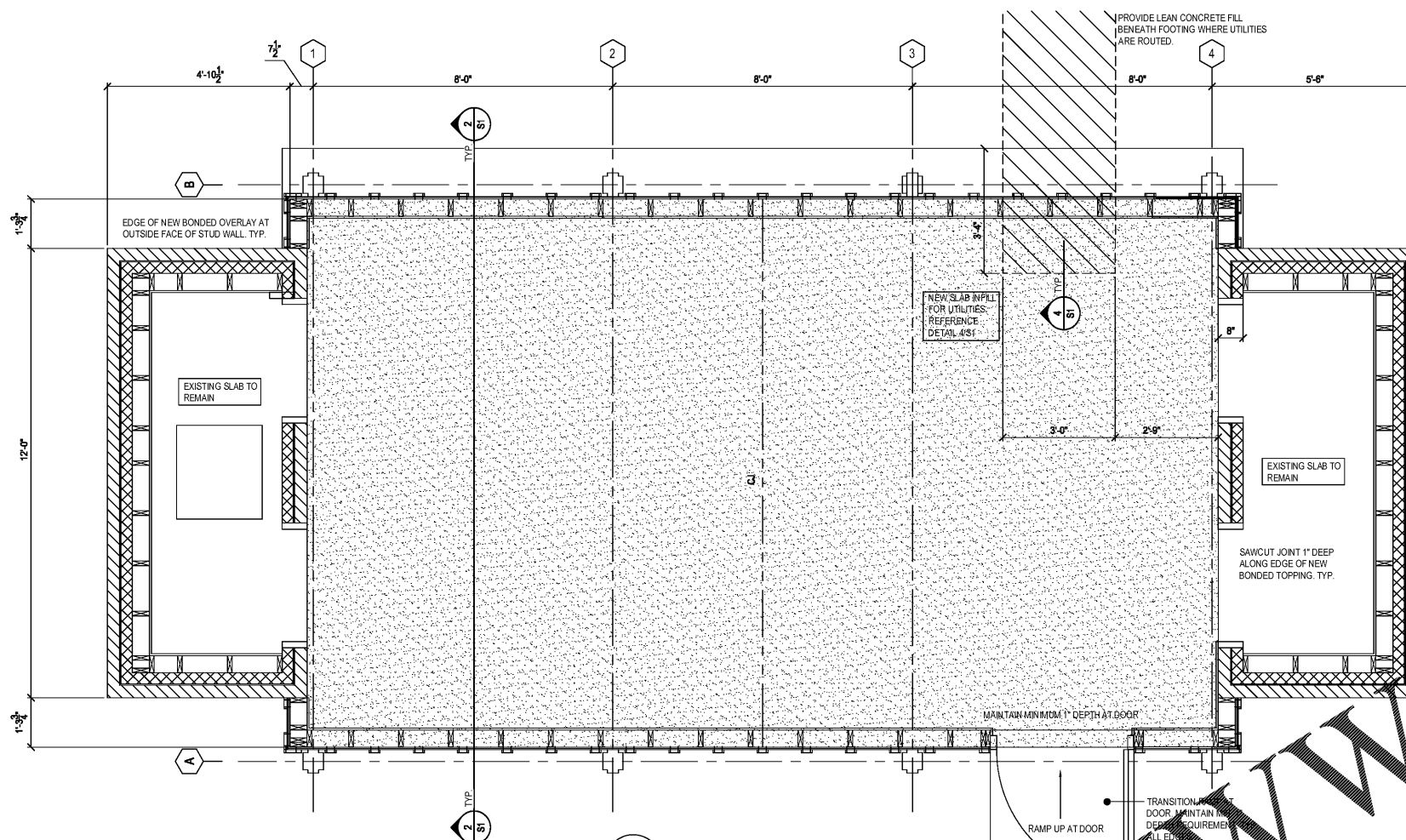


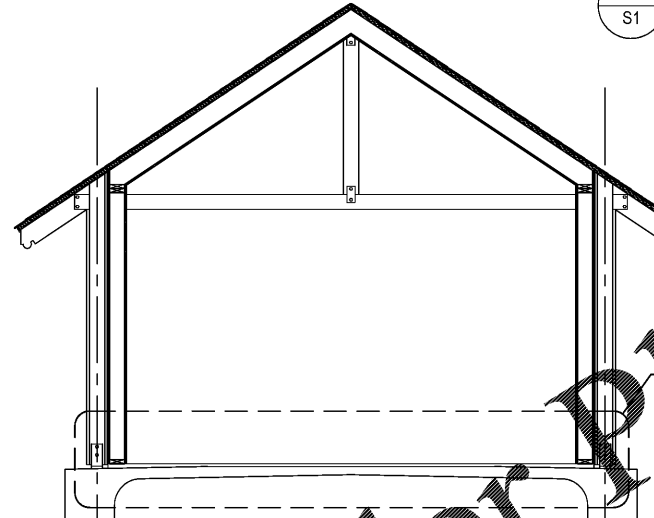
PROCEDURES, METHODS AND MATERIALS

THE FOLLOWING GENERAL PROCEDURES, METHODS AND MATERIALS SHALL APPLY TO THE SCOPE OF WORK FOR THIS REPAIR TYPE EXCEPT FOR CHANGES SPECIFICALLY APPROVED IN WRITING BY THE PROJECT ENGINEER OF RECORD. THE INTENT OF THE SCOPE OF WORK SHOWN ON THE TYPICAL SECTION, PART PLAN AND IN THESE NOTES IS TO CONSTRUCT A BONDED CEMENTITIOUS OVERLAY OVER THE SURFACE OF AN EXISTING SLOPED CONCRETE SLAB THAT IS PRESENTLY LOCATED WITHIN AN UNENCLOSED SHELTER ON THE GTCC CAMPUS. THE FOLLOWING NOTES, PROCEDURES AND MATERIAL REQUIREMENTS APPLY TO THE SCOPE OF WORK FOR THE CONSTRUCTION OF THE BONDED OVERLAY:

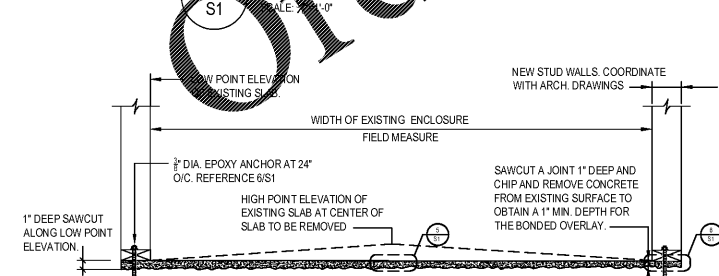
1. ACCEPTABLE MATERIALS FOR BONDED TOPPING:
 - 1.1. SIKACRETE 100C1 - RECOMMENDED
 - 1.2. BASF - APPROVED EQUIVALENT
 - 1.3. XYPEX - APPROVED EQUIVALENT
2. THE CONTRACTOR SUBMITTING A BID PROPOSAL SHALL VISIT THE SITE PRIOR TO SUBMITTING THEIR BID PROPOSAL AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY REMOVAL, STORAGE PROTECTION AND REPLACEMENT OF ANY MECHANICAL, ELECTRICAL, EQUIPMENT AND FINISHES THAT ARE REMOVED.
2. PROVIDE A SAWCUT JOINT 1" DEEP AT THE EDGE OF THE ENCLASURE AT THE LOW POINT ELEVATION OF THE EXISTING CONCRETE SLAB AND WHERE THE BONDED OVERLAY MATERIAL CHIPS AND REMOVE THE CONCRETE FROM THE SLAB SURFACE ALONG THE SAWCUT JOINT AS REQUIRED TO OBTAIN A MINIMUM CLEAR DEPTH FROM THE EXISTED CEMENTITIOUS OVERLAY MATERIAL OF 1 INCH. REMOVAL CAN OCCUR USING A SERIES OF SAWCUTS WITH VARYING DEPTHS OR BY USING SMALL PNEUMATIC OR ELECTRIC CHIPPING HAMMER WITH POINTED BITS.
3. USE BRUSH HAMMER TO REMOVE REMAINING SURFACES OF THE EXISTING CONCRETE SLAB THAT WILL REMOVE THE NEW CEMENTITIOUS BONDED OVERLAY. SCABBLE AND/OR BUSH HAMMER SHALL REMOVE A MINIMUM OF 1" OF CONCRETE FROM THE EXISTING SURFACE AND LEAVE THE SURFACE WITH A ROUGH PROFILE WITH THE COARSE AGGREGATE EXPOSED.
4. EXCAVATED SURFACES SHALL BE EXAMINED BY THE PROJECT ENGINEER AFTER COMPLETION OF THE EXCAVATION.
5. AFTER REMOVAL AND APPROVAL OF THE EXCAVATED SURFACE OF CONCRETE ON THE HORIZONTAL SURFACES OF THE EXISTING CONCRETE LOOSE PARTICLES AND DEBRIS LEFT ON THE SURFACE FROM THE REMOVAL OF CONCRETE SHALL BE REMOVED WITH A PRESSURE WASHER.
6. EXCAVATED SURFACES SHALL BE CLEAN WITH SOUND AGGREGATE EXPOSED WHEN THE CEMENTITIOUS MORTAR IS PLACED. SURFACES SHALL HAVE A PROFILE EQUAL TO CSP-8 AS DEFINED IN ICRI TECHNICAL GUIDELINES NO. 03732.
7. IF DURING THE REMOVAL OF EXISTING CONCRETE, EXISTING REINFORCING STEEL IS EXPOSED, REMOVE ADDITIONAL CONCRETE FROM EITHER OVER THE SURFACE OR FROM AROUND THE FULL CIRCUMFERENCE OF THE REINFORCING. IF THE DEPTH OF REMOVAL AROUND REINFORCING STEEL EXCEEDS 2 INCHES, PLACE AND CONSOLIDATE SPECIFIED REPAIR MORTAR IN TWO (2) LIFTS.
8. THE CONTRACTOR SHALL PREPARE MOCKUPS ON ACCESSIBLE SURFACES PREPARED. THE CEMENTITIOUS BONDED MORTAR OVERLAY ON THE MOCKUPS SHALL BE PLACED, CONSOLIDATED, FINISHED AND CURED IN ACCORDANCE WITH THE NOTES FOR THIS REPAIR TYPE.
9. CARE SHALL BE TAKEN DURING THE EXCAVATION AND REMOVAL OF EXISTING CONCRETE FROM THE SURFACES NOT TO DAMAGE ANY EXISTING REINFORCING STEEL, EQUIPMENT OR INSERTS EMBEDDED IN THE EXISTING CONCRETE. EQUIPMENT AND/OR INSERTS THAT ARE DAMAGED DURING THE REMOVAL OF CONCRETE DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE EITHER REPAIRED OR REPLACED AS DIRECTED BY THE PROJECT ENGINEER, AT NO COST TO THE OWNER.
10. AFTER COMPLETION OF THE EXCAVATION OF CONCRETE FROM THE SURFACES OF THE EXISTING CONCRETE SLABS AND AFTER A FINAL CLEANING AND PREPARING THE EXCAVATED SURFACES, THE SURFACES SHALL BE VISUALLY EXAMINED AND APPROVED BY THE PROJECT ENGINEER. ANY CONCRETE ON THE EXCAVATED SURFACES THAT THE ENGINEER DETERMINES TO BE UNSOUND SHALL BE REMOVED TO SOUND CONCRETE SURFACES AS DIRECTED BY THE ENGINEER.
11. IF THERE ARE LOCALIZED AREAS WHERE THE DEPTH OF THE CONCRETE THAT IS REMOVED EXCEEDS 2 INCHES, THE CONTRACTOR SHALL SUBMIT TO THE PROJECT ENGINEER FOR APPROVAL A CHANGE ORDER PROPOSAL FOR THE ADDITIONAL DEPTH OF REMOVAL AND PLACEMENT OF THE REPAIR MORTAR. IN THE ADDITIONAL DEPTH.
12. PRIOR TO PLACEMENT OF THE BOND COAT OF CEMENTITIOUS MORTAR, COVER THE EXCAVATED SURFACES WITH WET BURLAP OR KEEP EXCAVATED SURFACES CONTINUOUSLY WET. KEEP THE SURFACE CONTINUOUSLY WET FOR A MINIMUM OF 24 HOURS PRIOR TO PLACEMENT OF THE BOND COAT. IMMEDIATELY PRIOR TO PLACEMENT OF THE BOND COAT, REMOVE THE WET BURLAP, CLEAN THE SURFACES WITH A LOW PRESSURE WATER BLAST, BLOW THE SURFACES DRY AND SCRUB THE BOND COAT INTO THE SURFACE. SURFACES SHALL BE SATURATED SURFACE DRY (SSD) WHEN THE BOND COAT IS SCRUBBED INTO THE EXCAVATED SURFACES.
13. DO NOT PLACE THE BOND COAT OR CEMENTITIOUS MORTAR WHEN AMBIENT TEMPERATURES ARE PREDICTED TO FALL BELOW 45°F OR ABOVE 80°F WITHIN FIVE (5) DAYS AFTER PLACEMENT UNLESS PROVISIONS ARE MADE TO MAINTAIN AMBIENT TEMPERATURE WITHIN THESE LIMITS AT EACH LOCATION WHERE THE CEMENTITIOUS MORTAR IS PLACED.
14. VIGOROUSLY SCRUB A BOND COAT OF THE SPECIFIED CEMENTITIOUS MORTAR INTO THE CLEANED AND PREPARED SSD SURFACES USING A STIFF BRISTLE BRUSH. DO NOT ALLOW THE BOND COAT TO DRY. PLACE THE REPAIR MORTAR IMMEDIATELY AFTER THE BOND COAT IS SCRUBBED INTO THE EXISTING SURFACES. BOND COAT SHALL BE THE SAME CEMENTITIOUS MORTAR SPECIFIED FOR THE BONDED OVERLAY. REPAIR MORTAR PLACED ON HORIZONTAL SURFACES SHALL BE CONSOLIDATED WITH A VIBRATORY SCREED OR OTHER APPROVED METHOD TO INSURE INTIMATE CONTACT OF THE MORTAR AT THE BOND FACE AND CONSOLIDATION OF THE FULL DEPTH OF REPAIR MORTAR.
15. ADD WATER TO THE PREPACKAGED CEMENTITIOUS MORTAR MIX ONLY IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. DO NOT OVER MIX OR DELAY PLACEMENT. MIX CEMENTITIOUS MORTAR IN A MECHANICAL MORTAR MIXER WITH PADDLES WITH A CAPACITY FOR LOW SPEED CONTINUOUS BLENDING THAT IS APPROVED BY THE MANUFACTURER OF THE REPAIR MORTAR.
16. IMMEDIATELY AFTER PLACING AND SCRUBBING THE BOND COAT INTO THE CLEANED AND PREPARED SURFACES, PLACE AND CONSOLIDATE THE REPAIR MORTAR ONTO THE CLEANED AND PREPARED SSD CONCRETE SURFACES. SCREED SURFACES LEVEL AND FLUSH WITH ADJACENT SURFACES. CONSOLIDATE THE REPAIR MORTAR WITH A VIBRATORY SCREED OR OTHER APPROVED METHODS. SURFACES SHALL RECEIVE A BROOM FINISH AFTER SCREEDING, FLOATING AND A SINGLE PASS WITH A MAGNESIUM FLOAT.
17. IMMEDIATELY (WITHIN THIRTY (30) MINUTES) AFTER COMPLETING THE BROOM FINISH, APPLY WET BURLAP WITH A PLASTIC COVER OVER THE FINISHED SURFACES. THE BURLAP SHALL BE KEPT CONTINUOUSLY WET FOR FIVE (5) DAYS. IF REQUIRED BY ADVERSE WEATHER CONDITIONS, USE A FOGGER TO KEEP SURFACES CONTINUOUSLY WET PRIOR TO PLACEMENT OF THE WET BURLAP.
18. AFTER CURING, REPAIR ANY DEFECTS IN THE SURFACE AS DIRECTED BY THE ENGINEER.



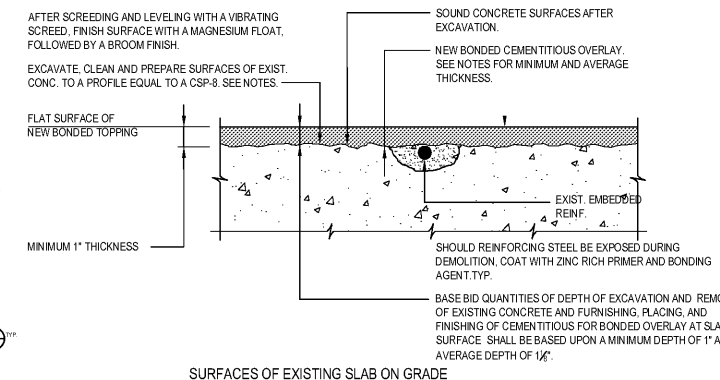
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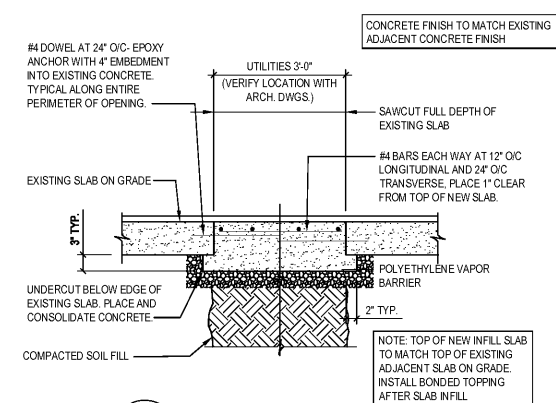
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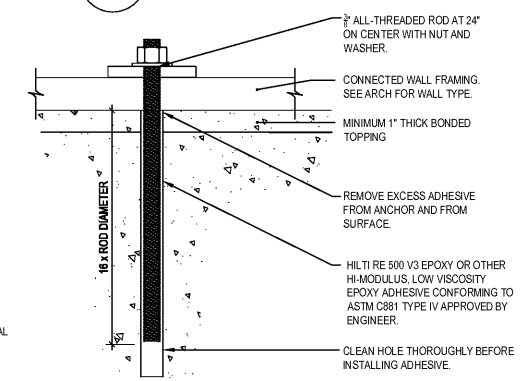
3 SLAB SECTION
S1
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5 SECTION
S1
SCALE: 3/8"=1'-0"



4 TYP. SLAB INFILL
S1
SCALE: 3/8"=1'-0"



6 SECTION
S1
SCALE: 3/8"=1'-0"

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PROJECT NUMBER
2020-008

DATE
May 4, 2020

Sheet:
S-1

Drawing Title: