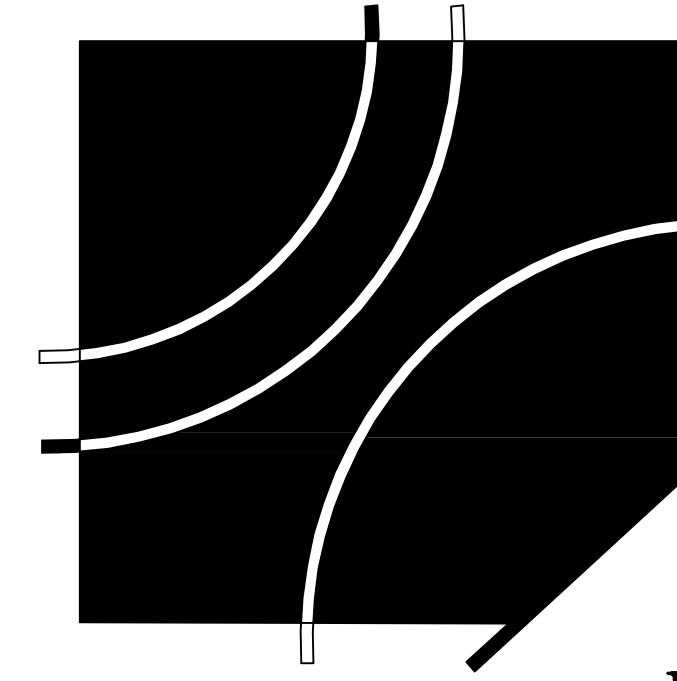


Replacement Facility For
Wrangell Medical Center
Wrangell, Alaska

DEJA



David E. Johnson
Architect

4551 Trousdale Drive
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tel 615.837.0656
fax 615.837.0657

David J. Brown -- Alaska License # 12691
Contact: Julia Covington

DEJA Project 10528.00

March 28, 2012

**VOLUME 2 - EARLY RELEASE PACKAGE
STRUCTURAL**

OWNER

The City and Borough of
Wrangell, Alaska

P.O. Box 531
Wrangell, AK 99929
Office 907/874-2381
Contact: Tim Rooney

HOSPITAL

Wrangell Medical
Center

P.O. Box 1081
Wrangell, AK 99929
Office 907/874-7164 FAX 907/874-7164
Contact: Noel Rea

PROGRAM MANAGER

AHFD | AMERICAN
HEALTH FACILITIES
DEVELOPMENT

105 Continental Place
Brentwood, TN 37027
Office 615/371-4902 FAX 615/371-4640
Contact: Steve Rutland

STRUCTURAL ENGINEER

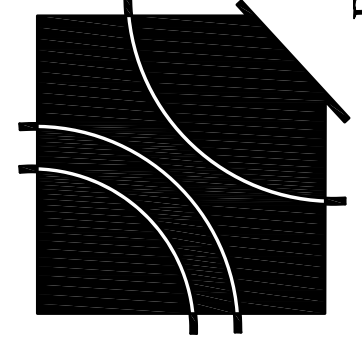
EMC Structural
Engineers, P.C.

4525 Trousdale Drive
Nashville, TN 37204
Office 615/781-8199, x208 FAX 615/781-4088
Contact: Dan Borsos
Alaska License # 12676 (Terry P. Scholes, S.E.)



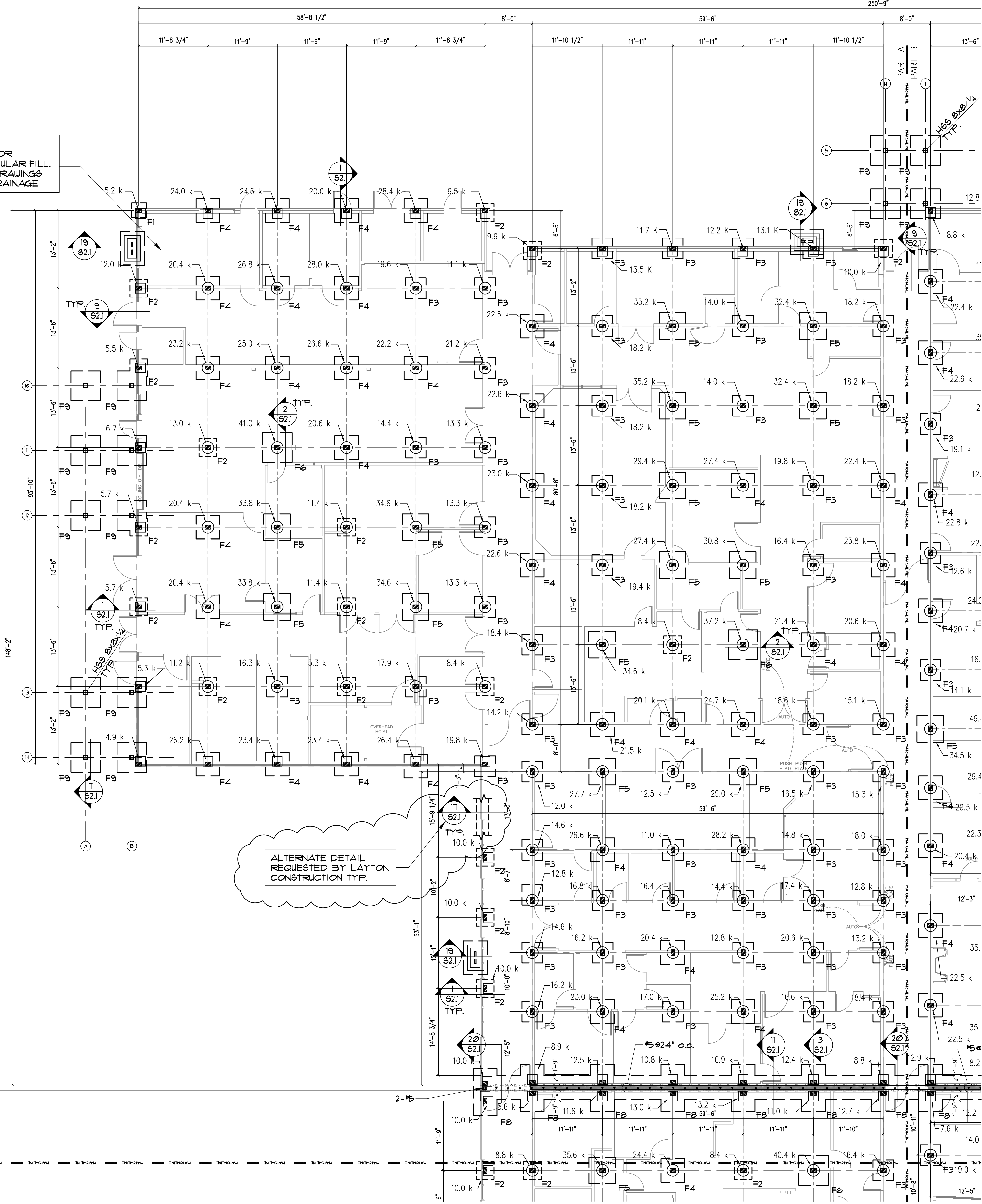
**VOLUME 2 - EARLY RELEASE PACKAGE
STRUCTURAL**

DEJA

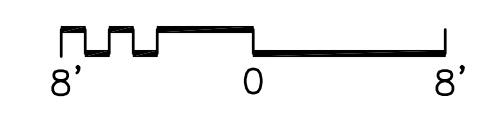


A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

IN CRAWLSPACE:
15 MIL. POLYOLEFIN VAPOR
BARRIER OVER 4" GRANULAR FILL.
SEE PLUMBING & CIVIL DRAWINGS
FOR UNDER BUILDING DRAINAGE

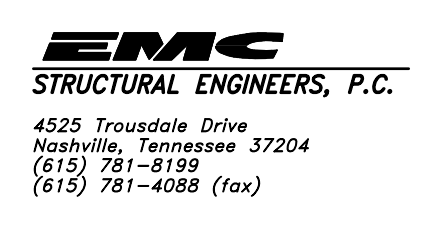


FOUNDATION PLAN - PART A

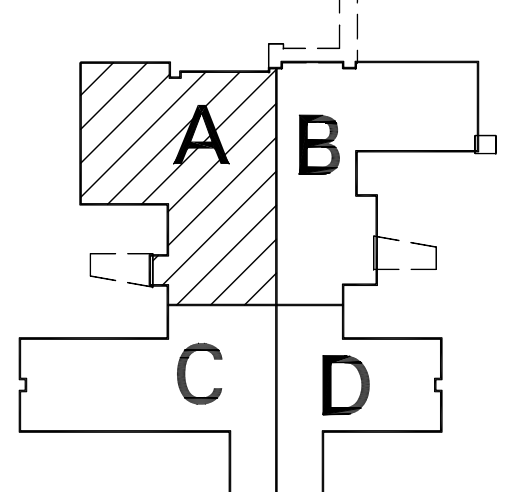


NOTES:

- 1) TOP OF INTERIOR FTG.+FFE. -3'-6" UNO.
- 2) TOP OF EXTERIOR FTG.+FFE. -2'-8" OR -1'-8" BELOW EXTERIOR GRADE WHICHEVER IS LOWER UNO.
- 3) THE CONTRACTOR SHALL COORDINATE ANY UNDER SLAB PIPING, CONDUITS OR ANY UTILITIES PRIOR TO PLACING FOOTINGS. REPORT ANY CONFLICT TO ENGINEER IMMEDIATELY.
- 4) SEE ARCH. DWG FOR ANY LOCATIONS AND OR DIMENSIONS NOT SHOWN.
- 5) DOUELS SHOWN ON PLANS INDICATE GROUT FILLED REINFORCED CORES. (SEE DETAIL 12/S21)



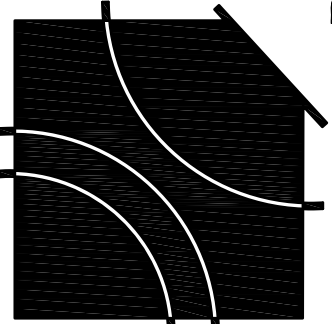
PROJECT NUMBER
10528.00
DATE
March 28, 2012



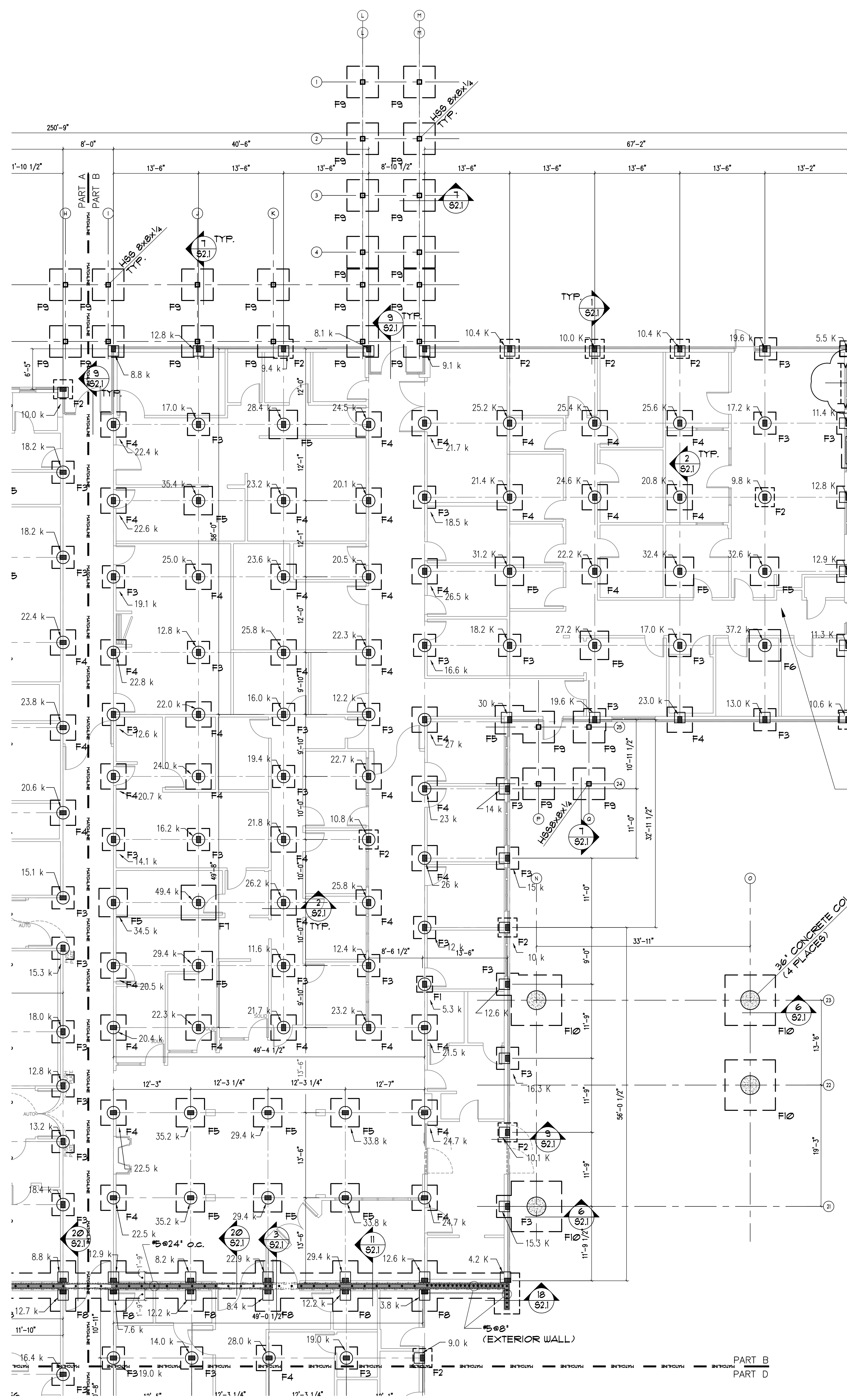
KEYPLAN

PART A
PART C

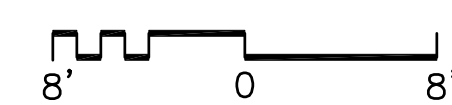
DEJA



A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

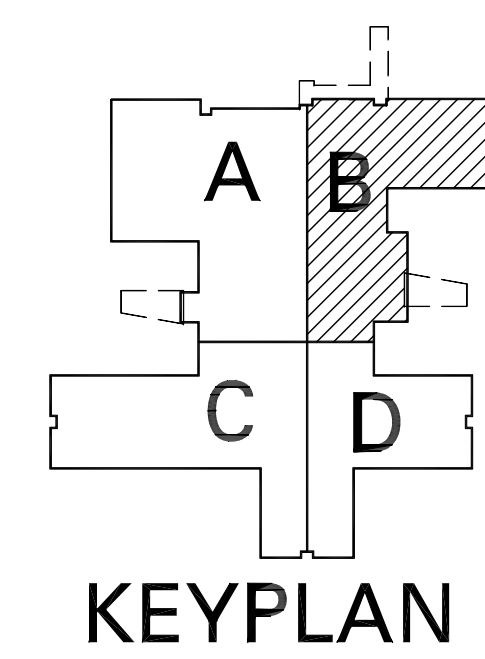


FOUNDATION PLAN - PART B



NOTES:

- 1) TOP OF INTERIOR FTG. +FFE. -3'-6" UNO.
- 2) TOP OF EXTERIOR FTG. +FFE. -2'-8" OR -1'-8" BELOW EXTERIOR GRADE WHICHEVER IS LOWER UNO.
- 3) THE CONTRACTOR SHALL COORDINATE ANY UNDER SLAB PIPING, CONDUITS OR ANY UTILITIES PRIOR TO PLACING FOOTINGS. REPORT ANY CONFLICT TO ENGINEER IMMEDIATELY.
- 4) SEE ARCH. DWG FOR ANY LOCATIONS AND OR DIMENSIONS NOT SHOWN.
- 5) DOWELS SHOWN ON PLANS INDICATE GROUT FILLED REINFORCED CORES. (SEE DETAIL 12/S21)



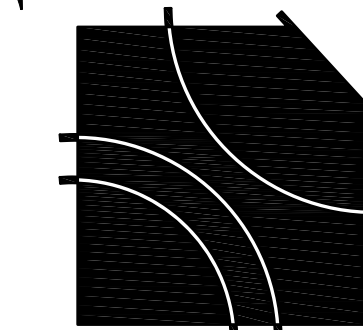
EMC
STRUCTURAL ENGINEERS, P.C.
4325 Trousdale Drive
Nashville, Tennessee 37204
(615) 761-4100
(615) 761-4088 (fax)

PROJECT NUMBER
10528.00
DATE
March 28, 2012

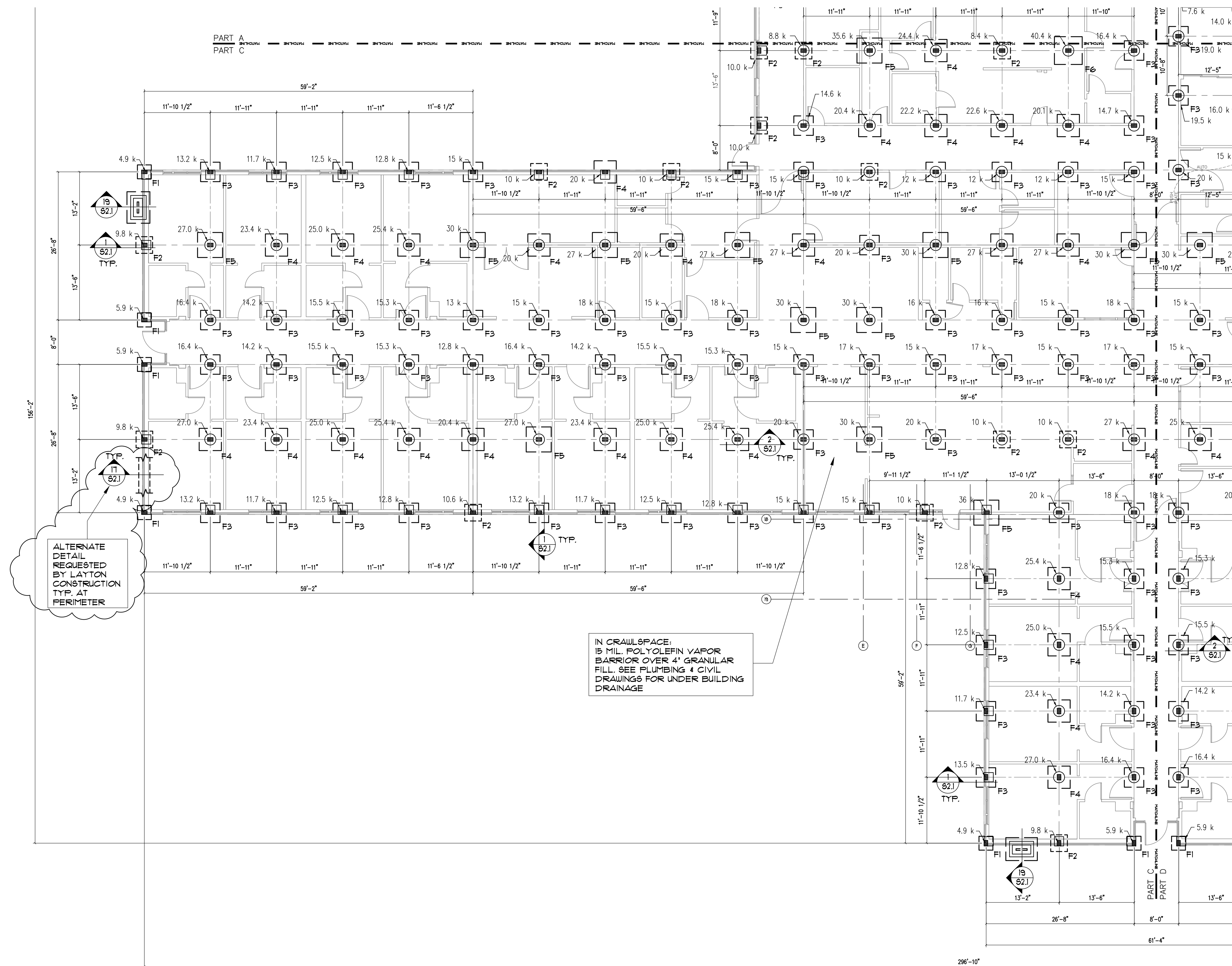
S1.1B

FOUNDATION PLAN - PART B

DEJA



A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska



FOUNDATION PLAN - PART C

8" 0 8"

- NOTES:
- 1) TOP OF INTERIOR FTG.=FFE. -3'-6" UNO.
 - 2) TOP OF EXTERIOR FTG.=FFE. -2'-8" OR -1'-8" BELOW EXTERIOR GRADE WHICHEVER IS LOWER UNO.
 - 3) THE CONTRACTOR SHALL COORDINATE ANY UNDER SLAB PIPING, CONDUITS OR ANY UTILITIES PRIOR TO PLACING FOOTINGS. REPORT ANY CONFLICT TO ENGINEER IMMEDIATELY.
 - 4) SEE ARCH. DWG FOR ANY LOCATIONS AND OR DIMENSIONS NOT SHOWN.
 - 5) DOUELS SHOWN ON PLANS INDICATE GROUT FILLED REINFORCED CORES. (SEE DETAIL 12/S2.1)

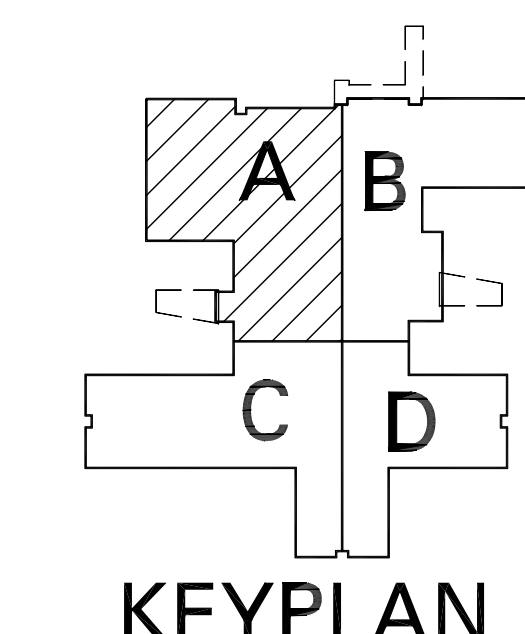


EMC
STRUCTURAL ENGINEERS, P.C.
4225 Trousdale Drive
Nashville, Tennessee 37204
(615) 781-4088 (fax)

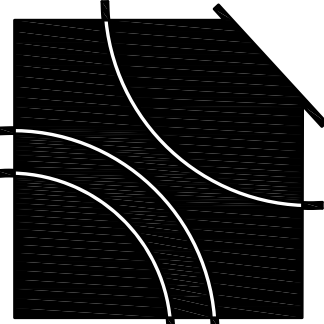
PROJECT NUMBER
10528.00
DATE
March 28, 2012

S1.1C

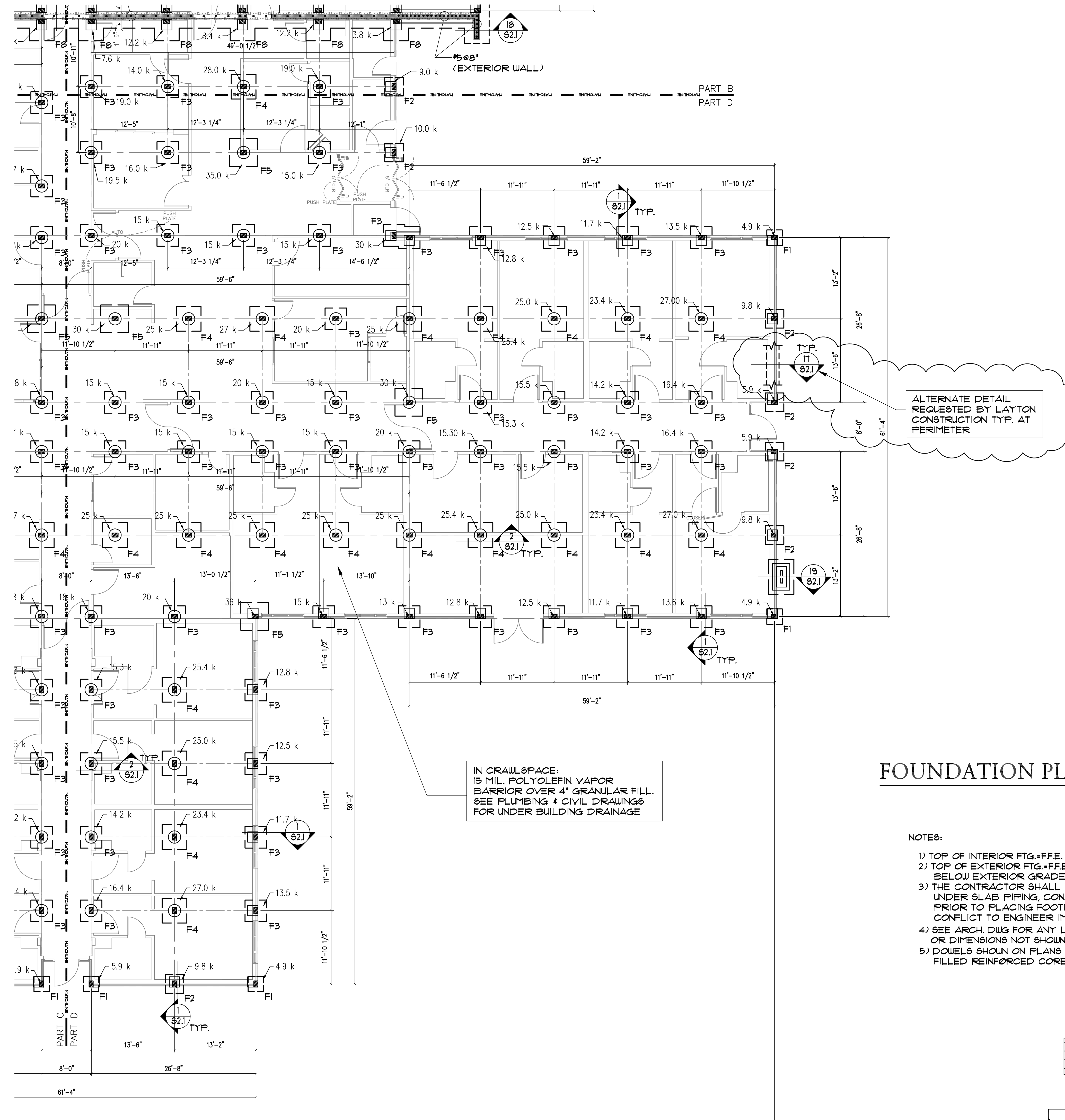
FOUNDATION PLAN-PART C



DEJA



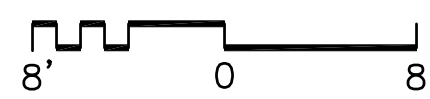
A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska



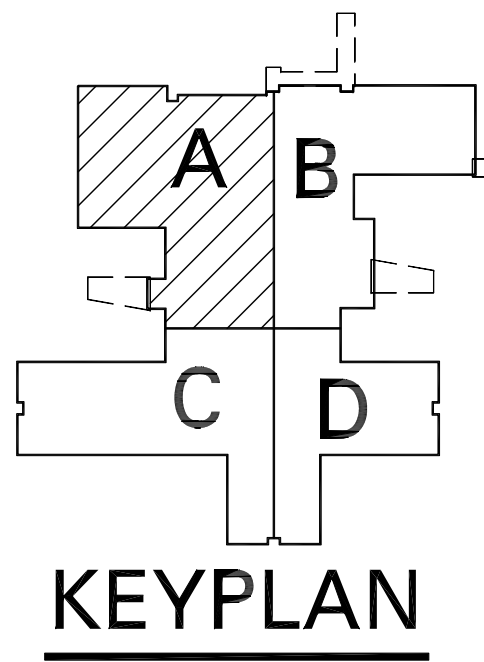
ALTERNATE DETAIL REQUESTED BY LAYTON CONSTRUCTION TYP. AT PERIMETER

IN CRAWLSPACE:
15 MIL. POLYOLEFIN VAPOR BARRIER OVER 4" GRANULAR FILL.
SEE PLUMBING & CIVIL DRAWINGS FOR UNDER BUILDING DRAINAGE

FOUNDATION PLAN - PART D



- NOTES:
- 1) TOP OF INTERIOR FTG.=FFE. -3'-6" UNO.
 - 2) TOP OF EXTERIOR FTG.=FFE. -2'-8" OR -1'-8" BELOW EXTERIOR GRADE WHICHEVER IS LOWER UNO.
 - 3) THE CONTRACTOR SHALL COORDINATE ANY UNDER SLAB PIPING, CONDUITS OR ANY UTILITIES PRIOR TO PLACING FOOTINGS. REPORT ANY CONFLICT TO ENGINEER IMMEDIATELY.
 - 4) SEE ARCH. DIAG FOR ANY LOCATIONS AND OR DIMENSIONS NOT SHOWN.
 - 5) DOUELS SHOWN ON PLANS INDICATE GROUT FILLED REINFORCED CORES. (SEE DETAIL 12/S2.1)



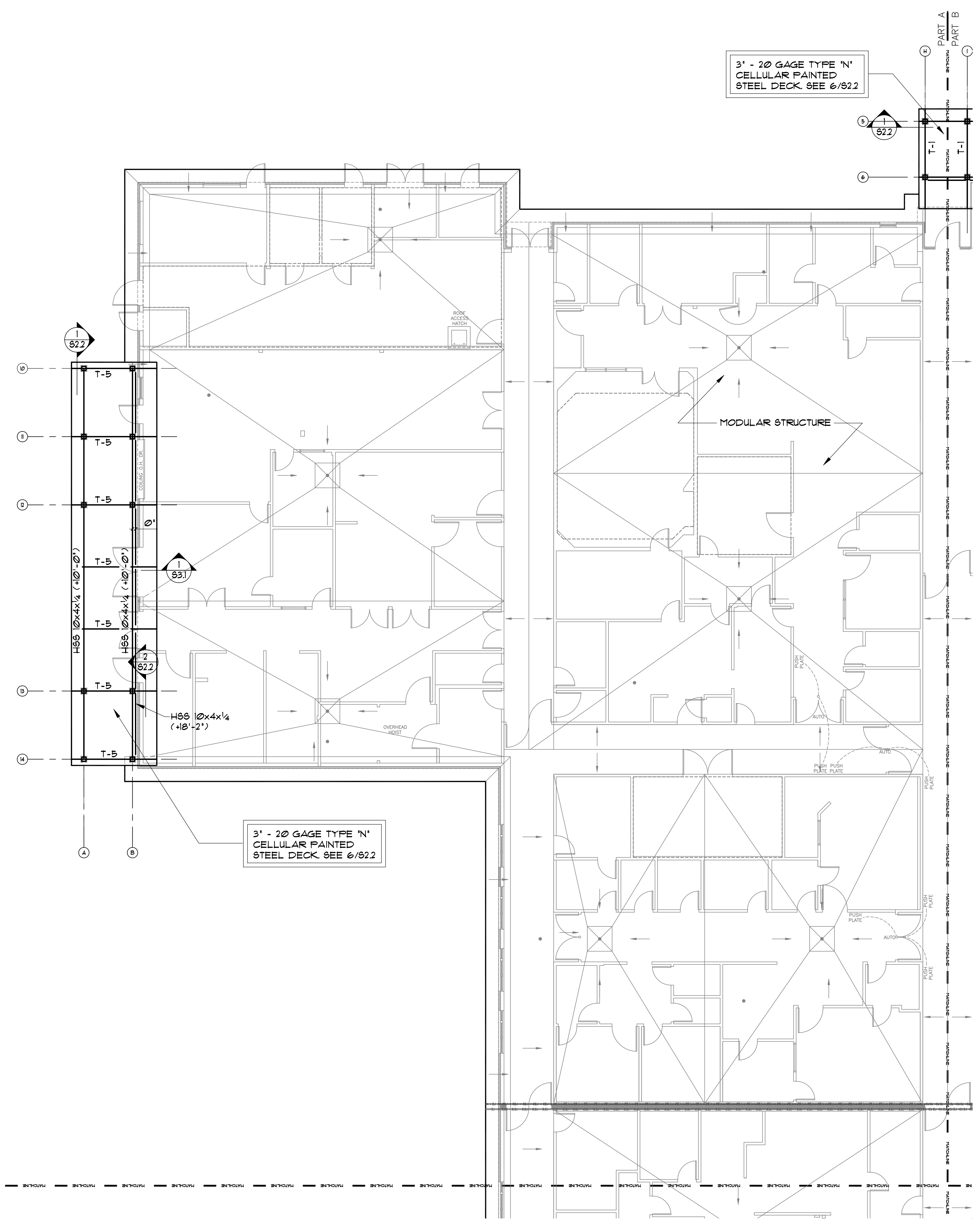
EMC
STRUCTURAL ENGINEERS, P.C.
4525 Trousdale Drive
Nashville, Tennessee 37204
(615) 781-4100
(615) 781-4088 (fax)

PROJECT NUMBER
10528.00
DATE
March 28, 2012

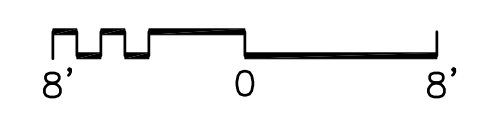
S1.1D

FOUNDATION PLAN - PART D

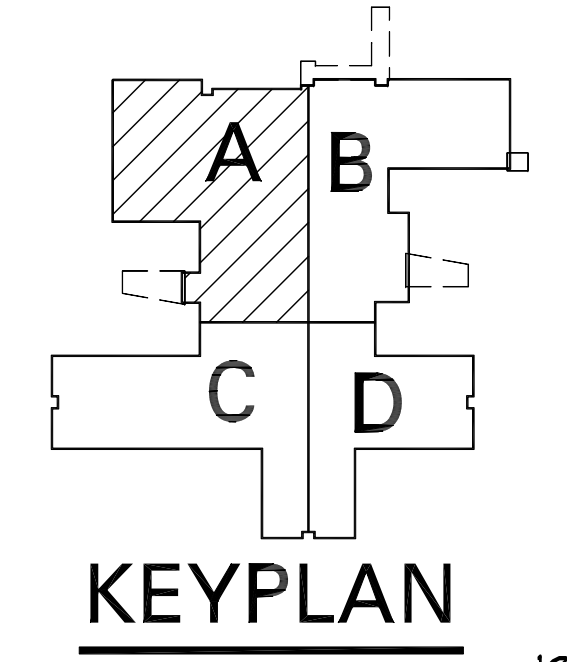
PART A
PART C



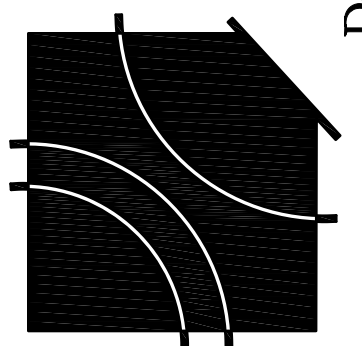
ROOF FRAMING PLAN - PART A



NOTES:
 1. SEE SHEET 63.1 FOR TRUSSES.



DEJA



A Replacement Facility for
Wrangell Medical Center
 Wrangell, Alaska

David E. Johnson
 Architect

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 Nashville, TN 37204

615.837.6556
 Fax: 615.837.6557

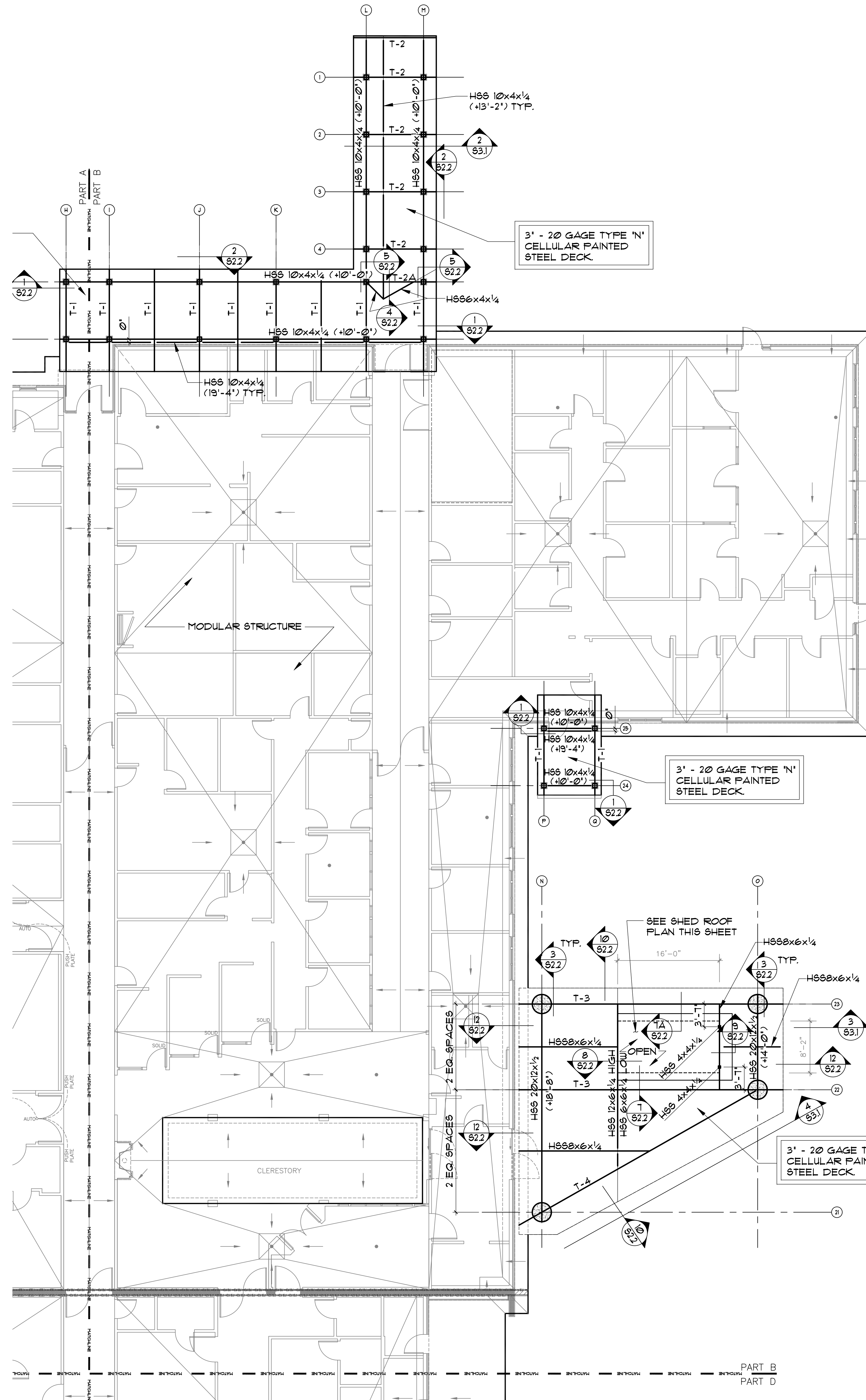


EMC
 STRUCTURAL ENGINEERS, P.C.
 4525 Tronshaw Drive
 Nashville, Tennessee 37204
 (615) 781-4155
 (615) 781-4088 (fax)

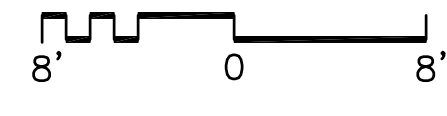
PROJECT NUMBER
10528.00
 DATE
March 28, 2012

S1.2A

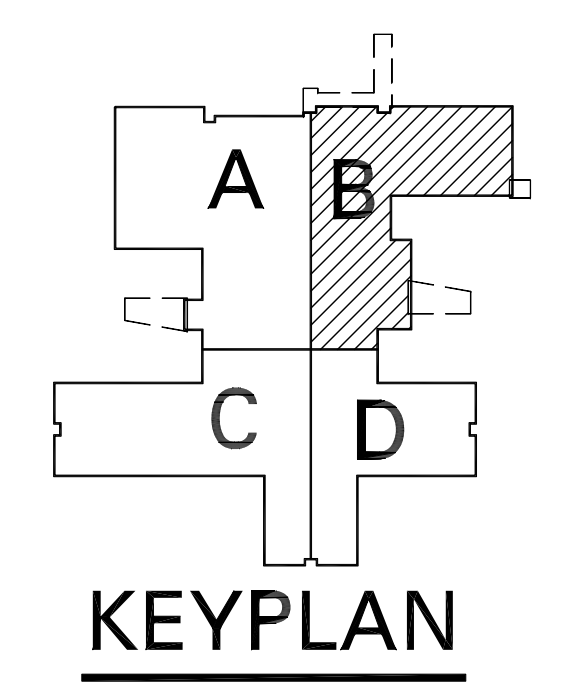
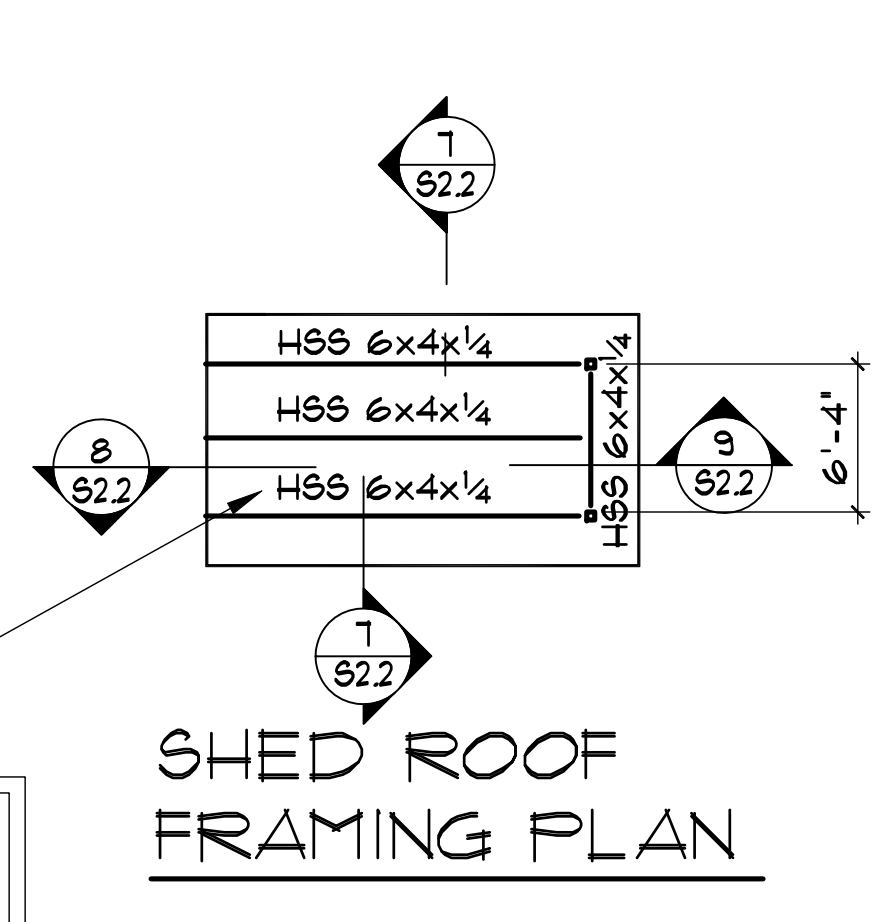
ROOF FRAMING PLAN
 PART A



ROOF FRAMING PLAN - PART B

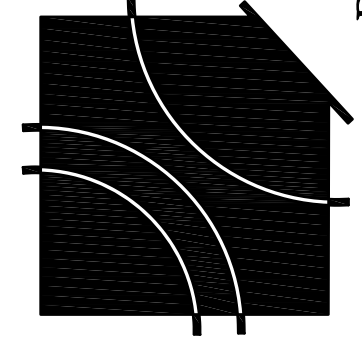


NOTES:
1. SEE SHEET 03.1 FOR TRUSSES.



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DEJA



A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

David E. Johnson
Architect

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Nashville, TN 37204
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Fax 615.857.0657

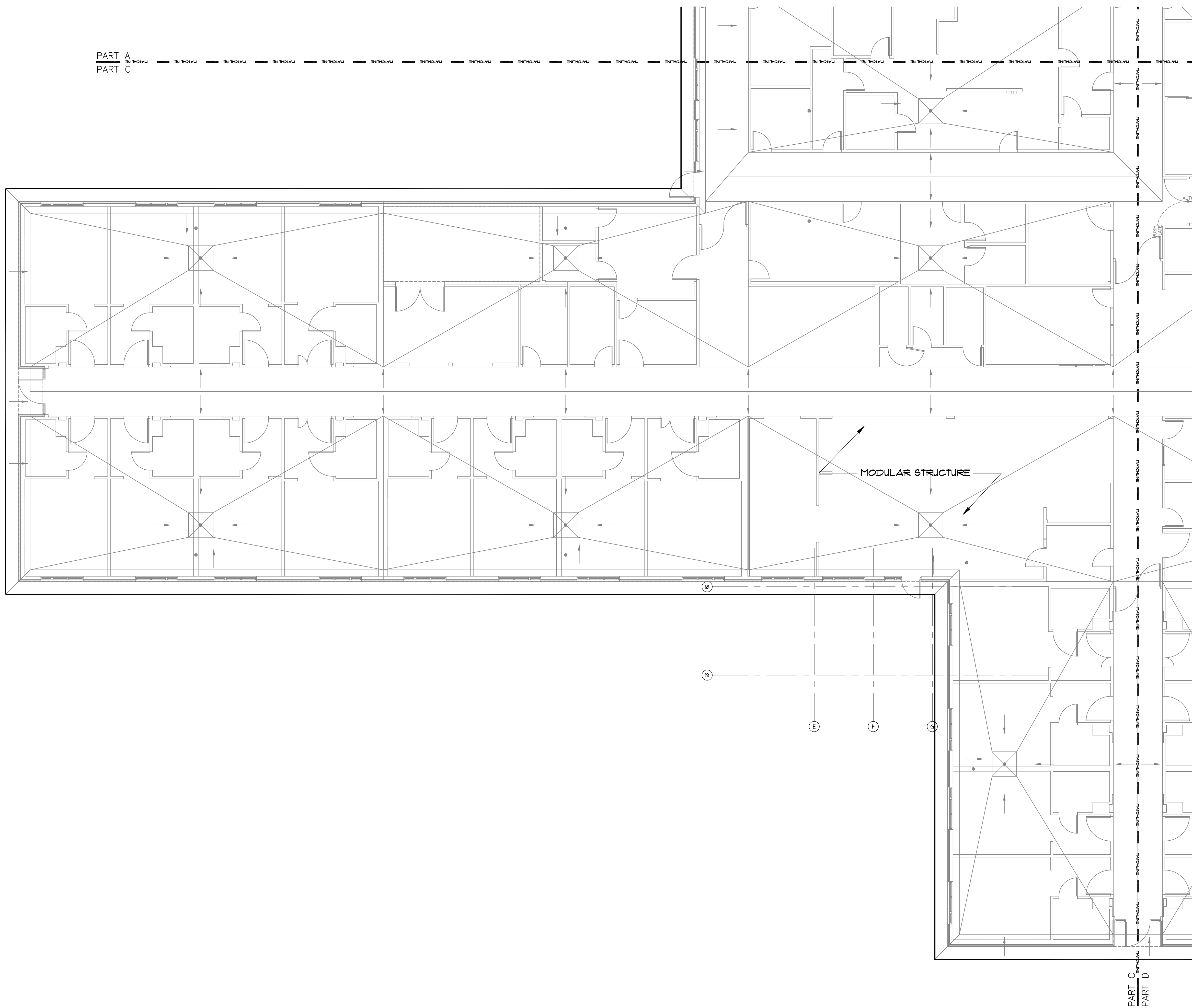


EMC
STRUCTURAL ENGINEERS, P.C.
4525 Trousdale Drive
Nashville, Tennessee 37204
(615) 281-4110
(615) 781-4088 (fax)

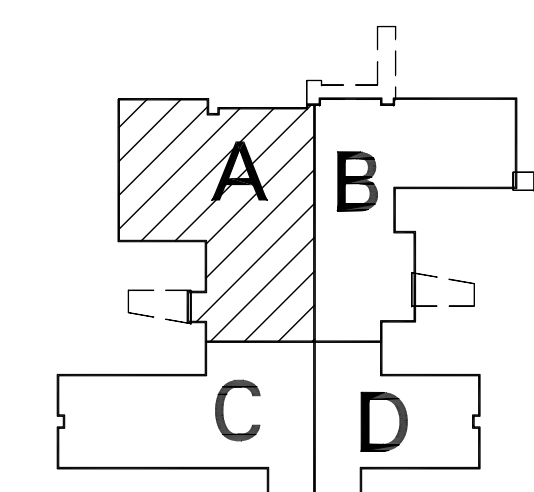
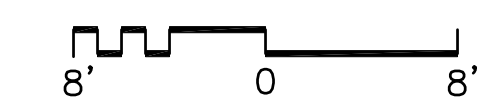
PROJECT NUMBER
10528.00
DATE
March 28, 2012

S1.2B

ROOF FRAMING PLAN
PART B



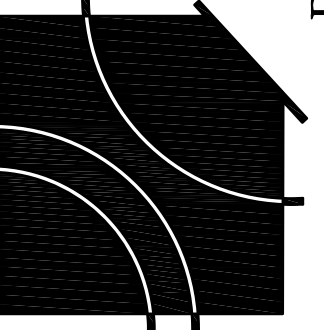
ROOF FRAMING PLAN - PART C



KEYPLAN

1066

DEJA



A Replacement Facility for
Wrangell Medical Center
 Wrangell, Alaska

David E. Johnson
 Architect

4551 Trussdale Drive
 Nashville, TN 37204
 Tel: 615.837.0658
 Fax: 615.837.0657



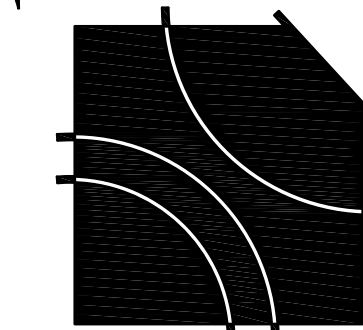
EMC
 STRUCTURAL ENGINEERS, P.C.
 4225 Trussdale Drive
 Nashville, Tennessee 37204
 (615) 781-4588 (Fax)

PROJECT NUMBER
 10528.00
 DATE
 March 28, 2012

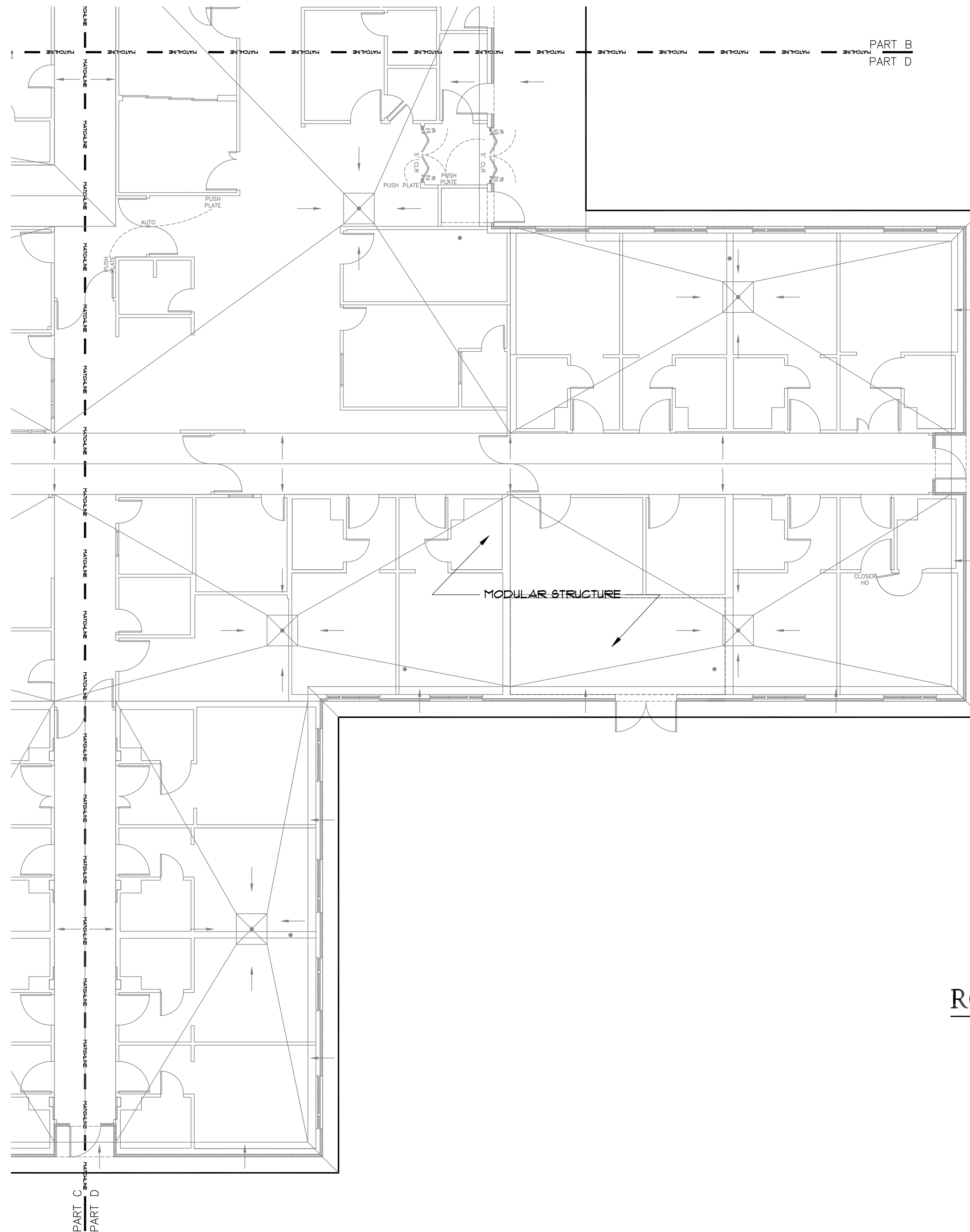
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ROOF FRAMING PLAN
PART C

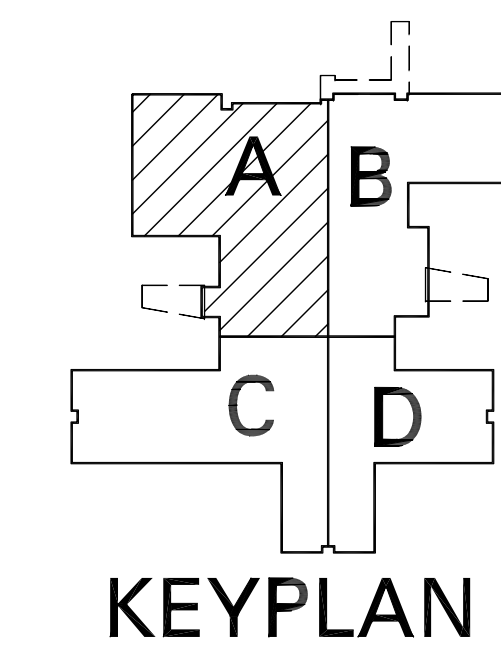
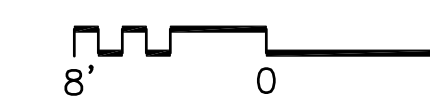
DEJA



A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska



ROOF FRAMING PLAN - PART D



KEYPLAN

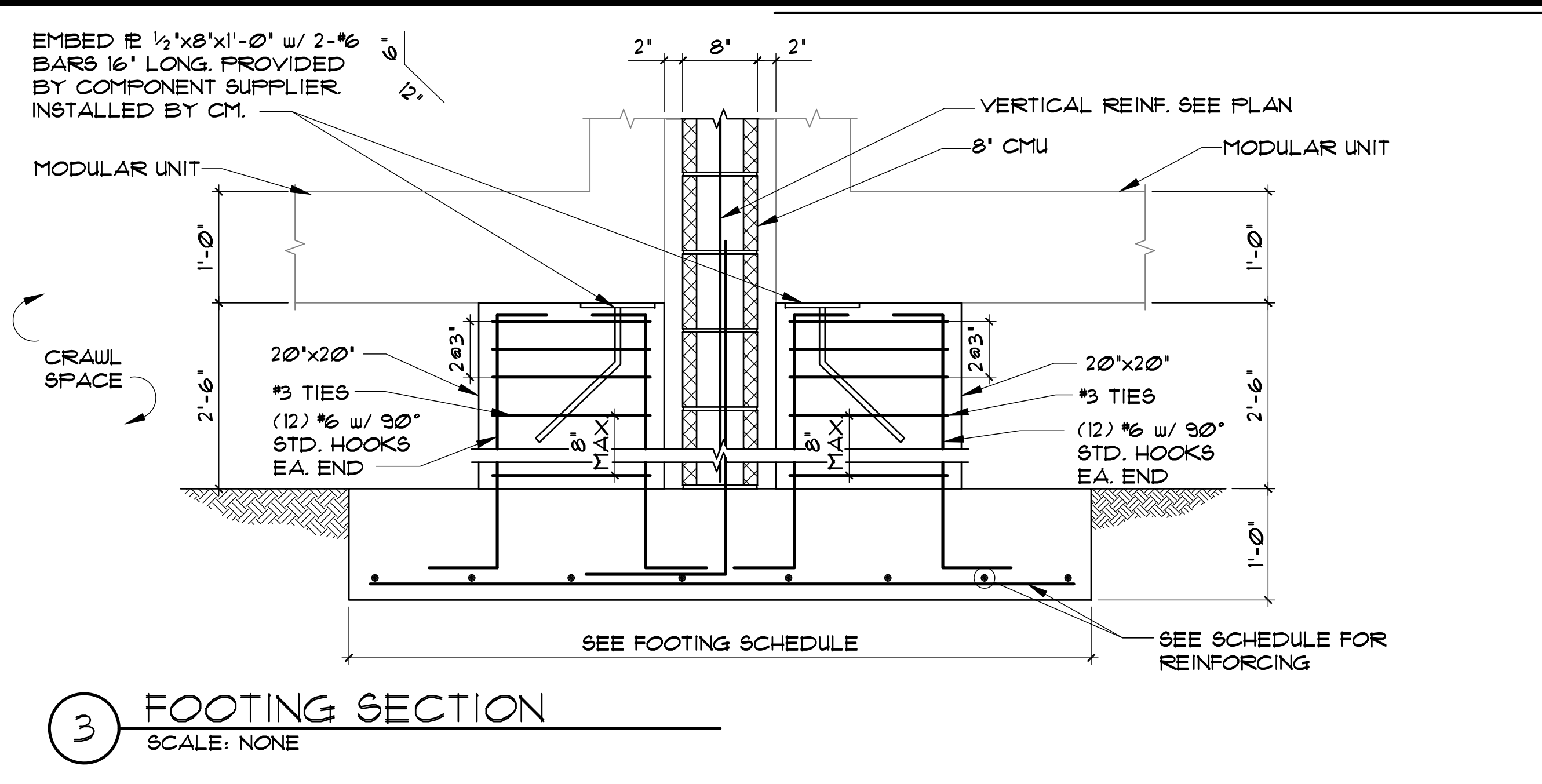
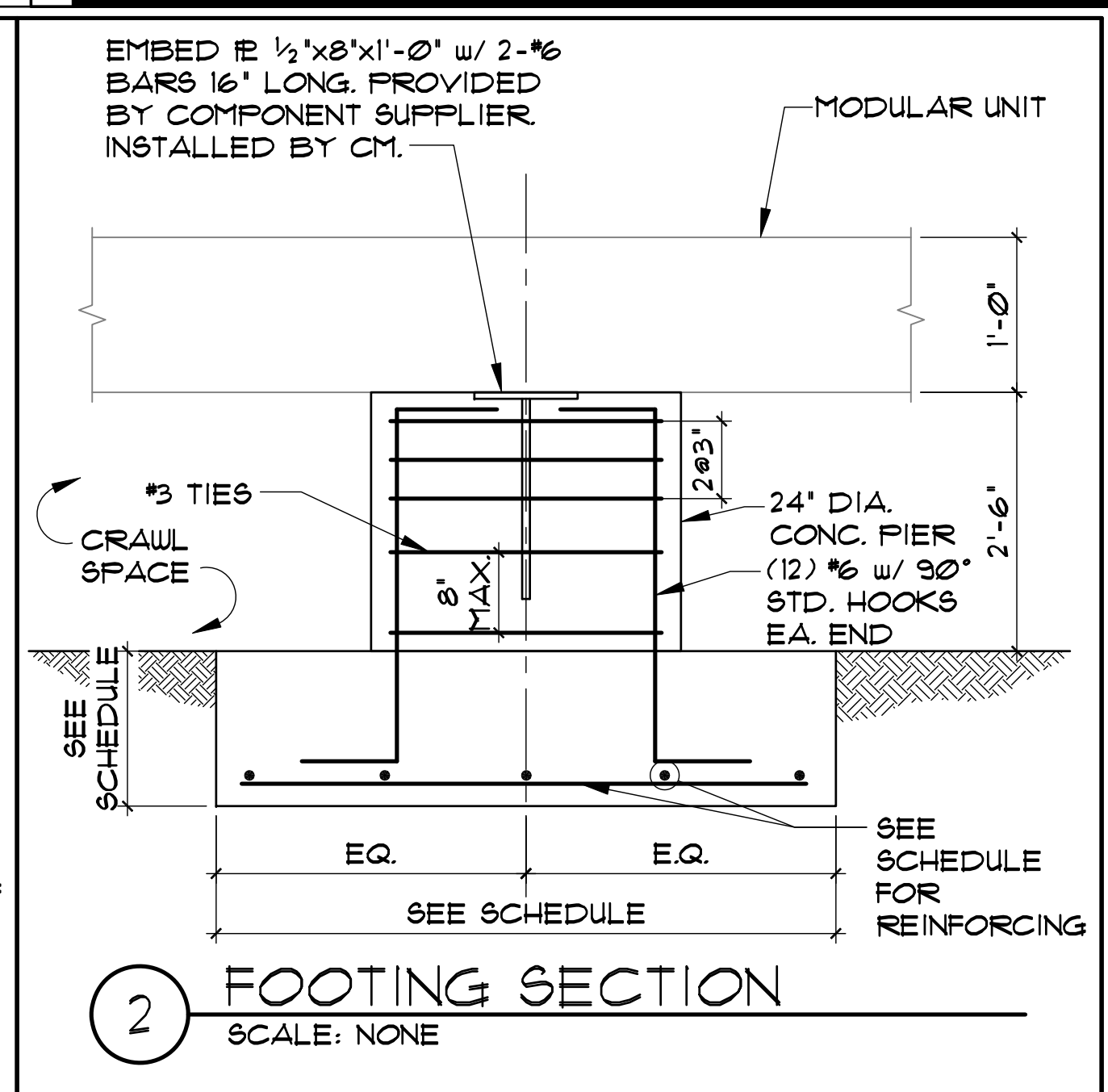
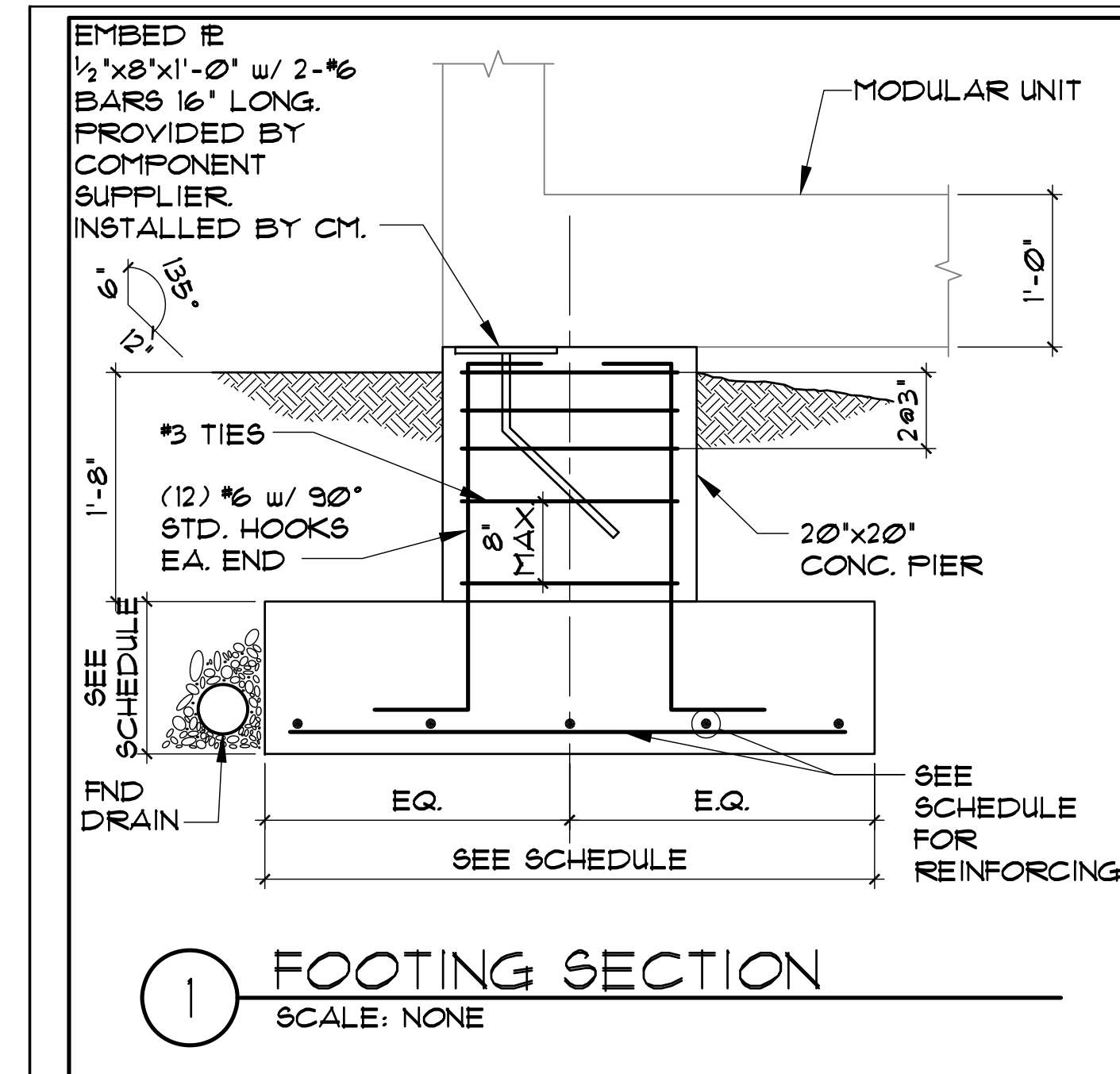


EMC
STRUCTURAL ENGINEERS, P.C.
4325 Trosselle Drive
Nashville, Tennessee 37204
(615) 781-4588 (fax)

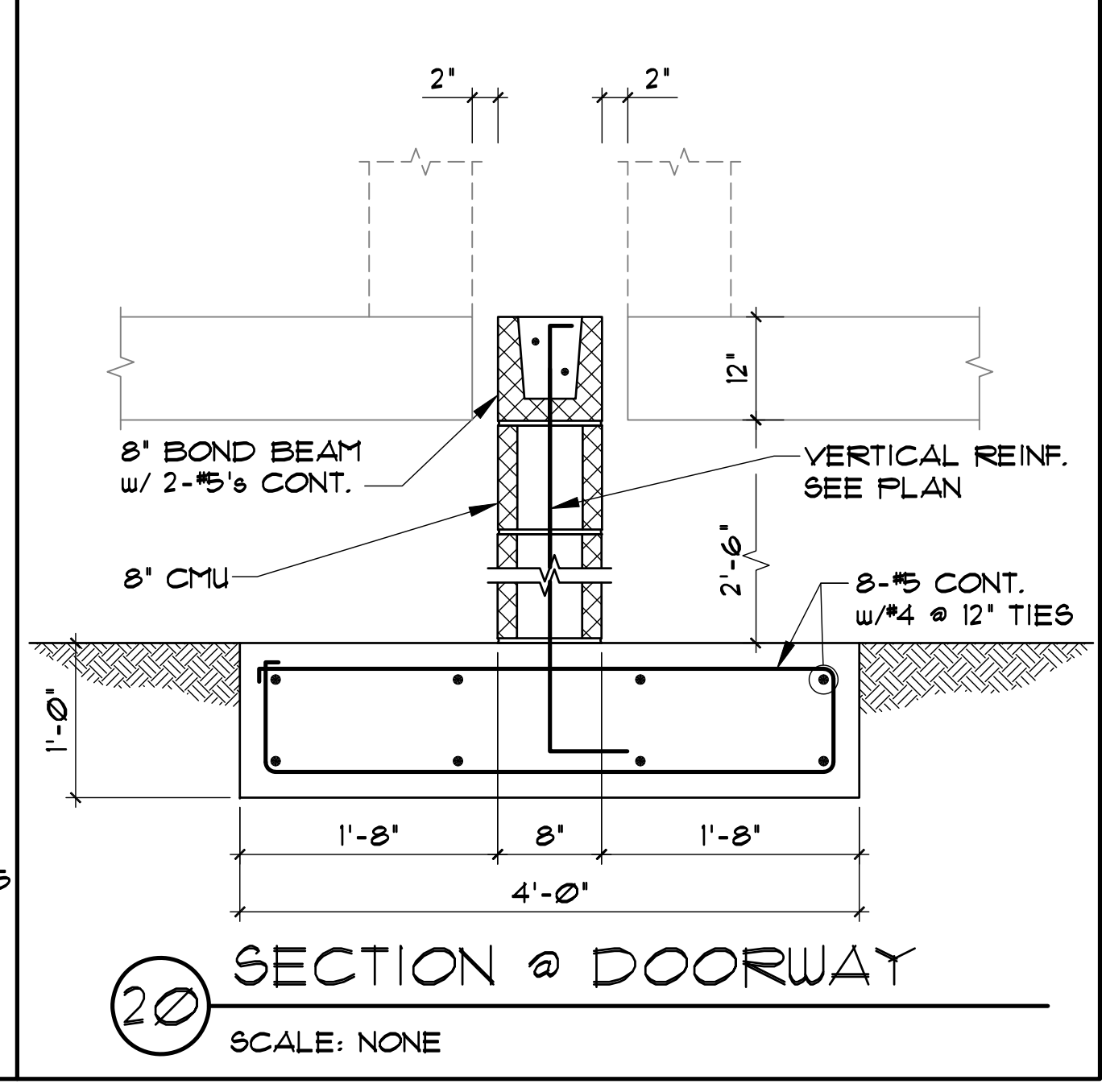
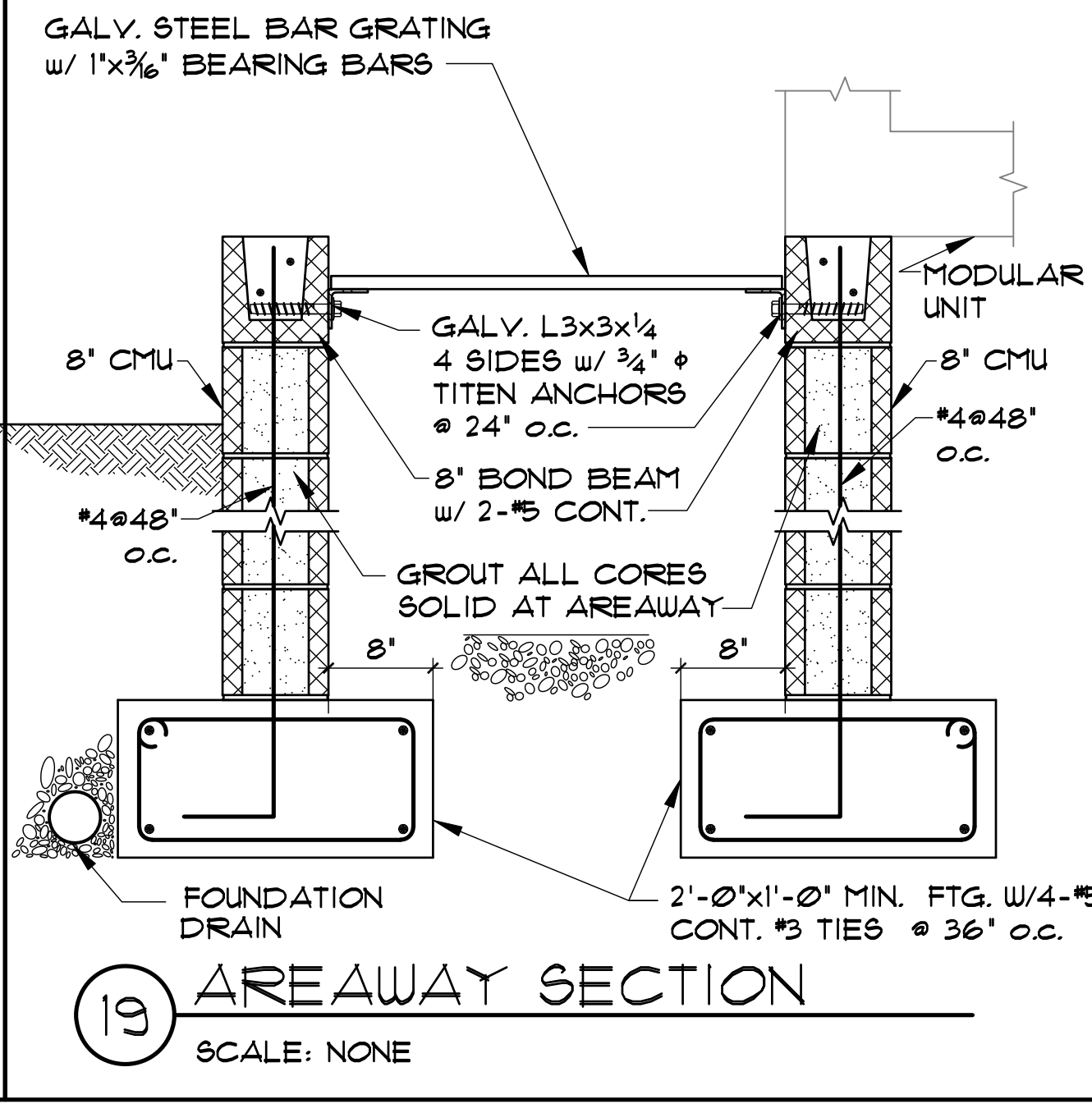
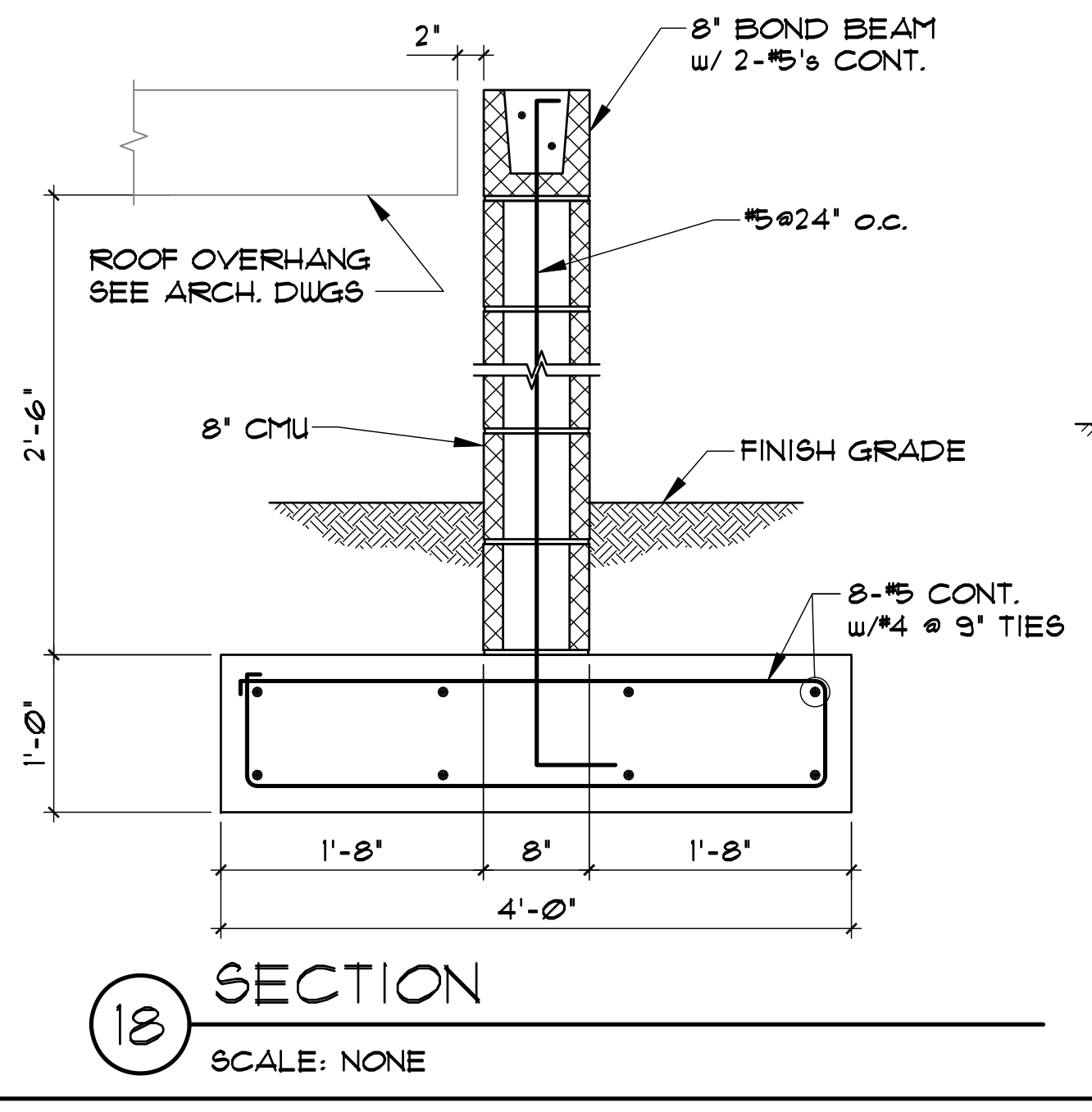
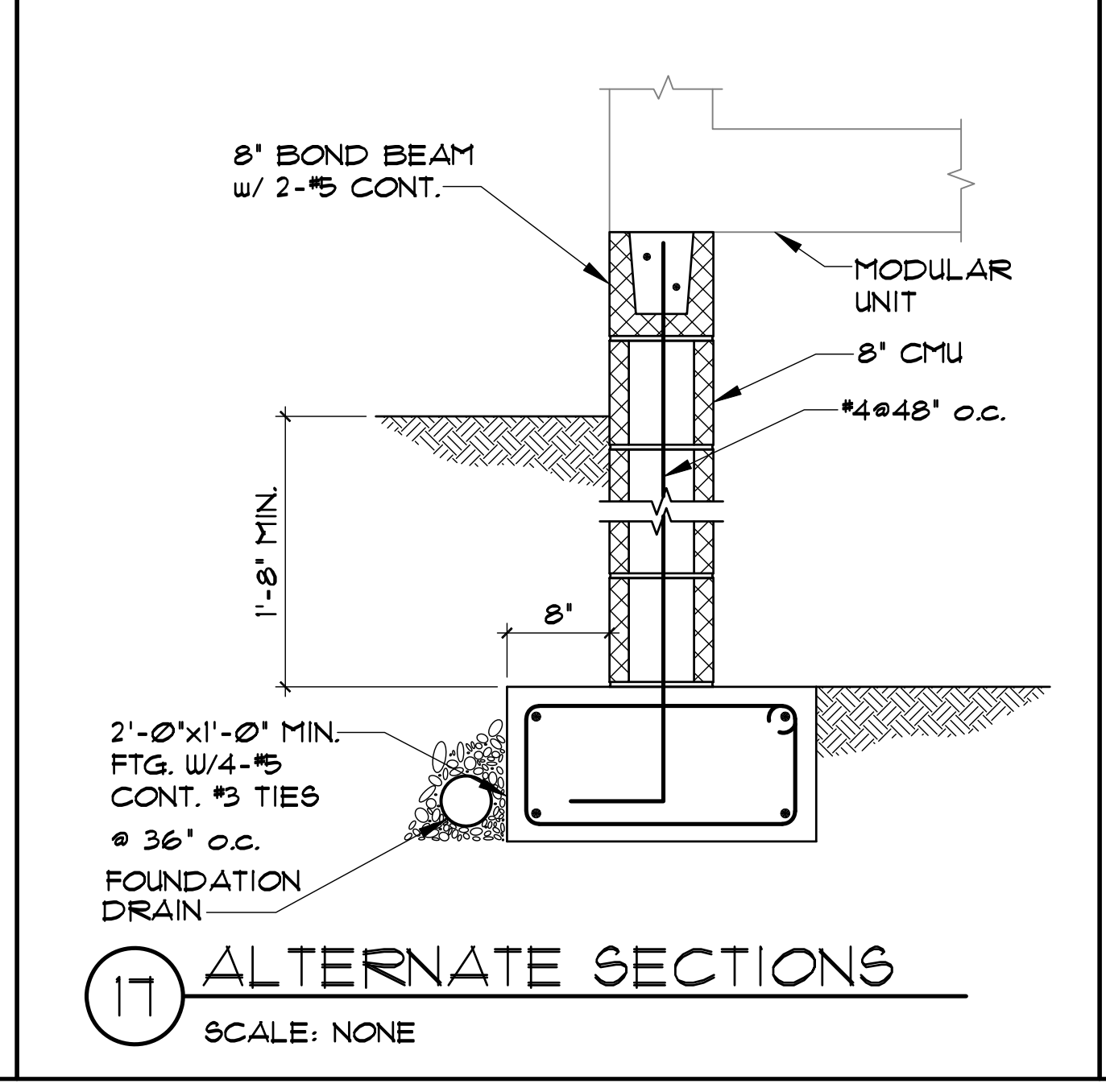
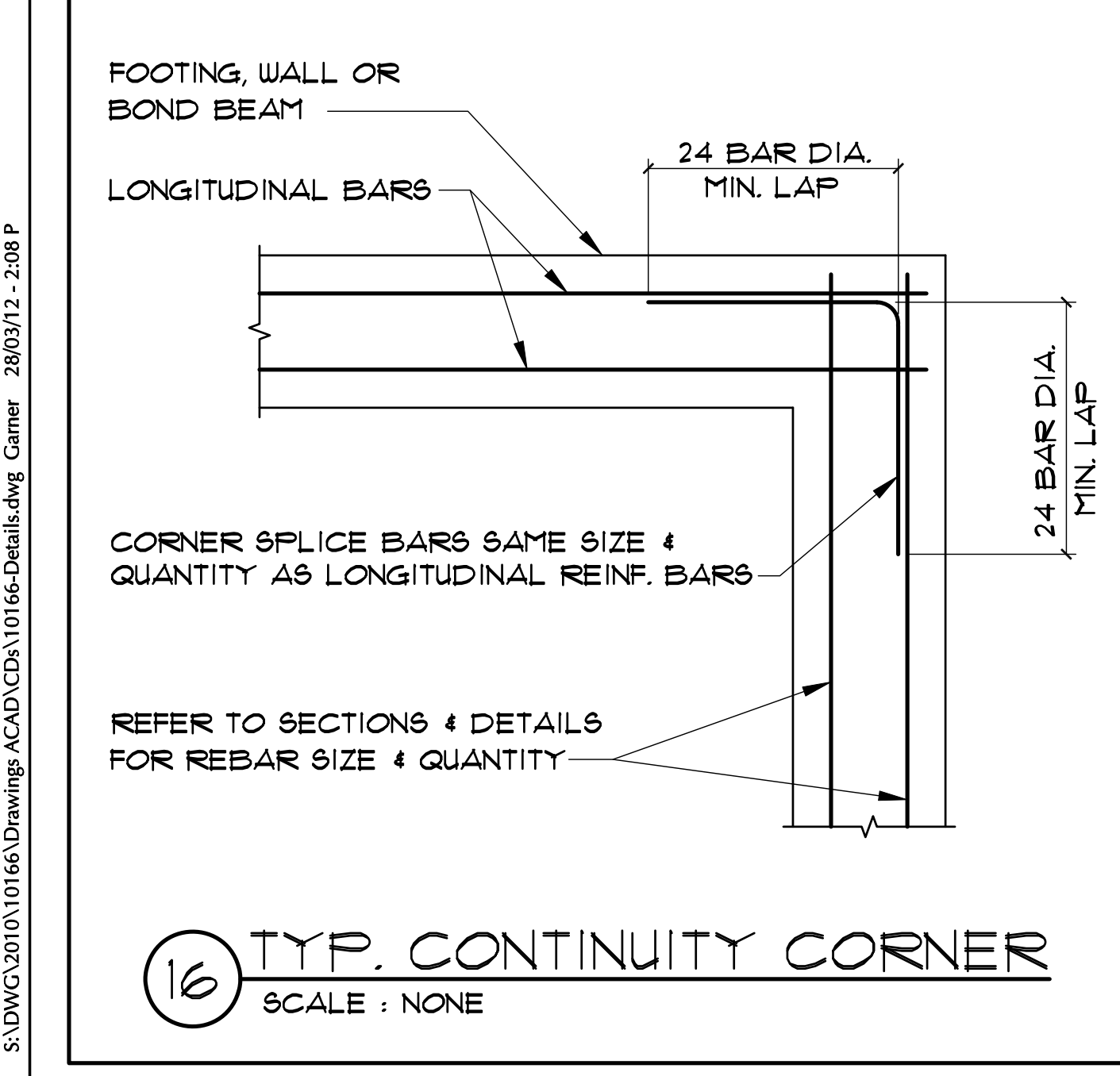
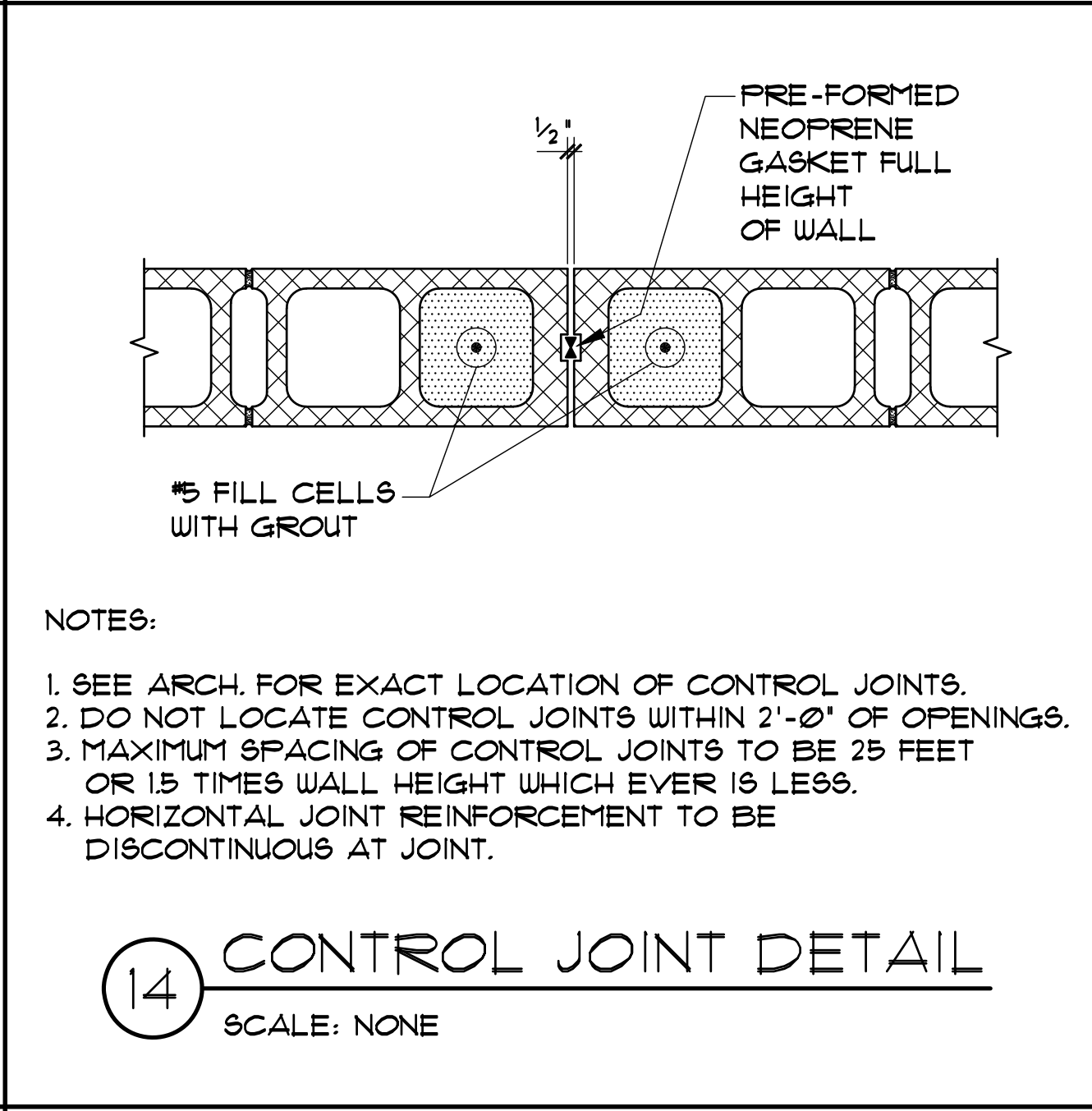
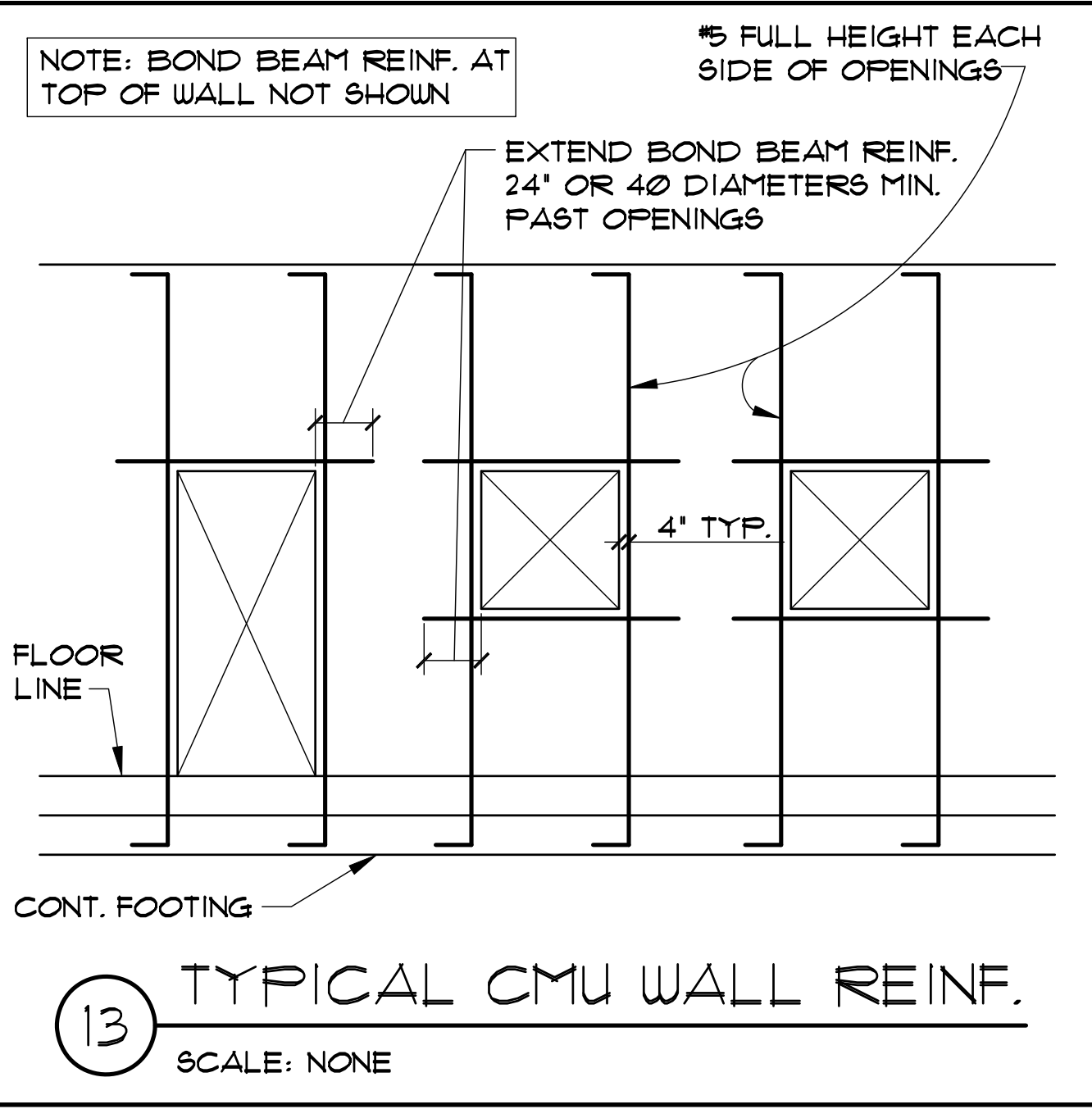
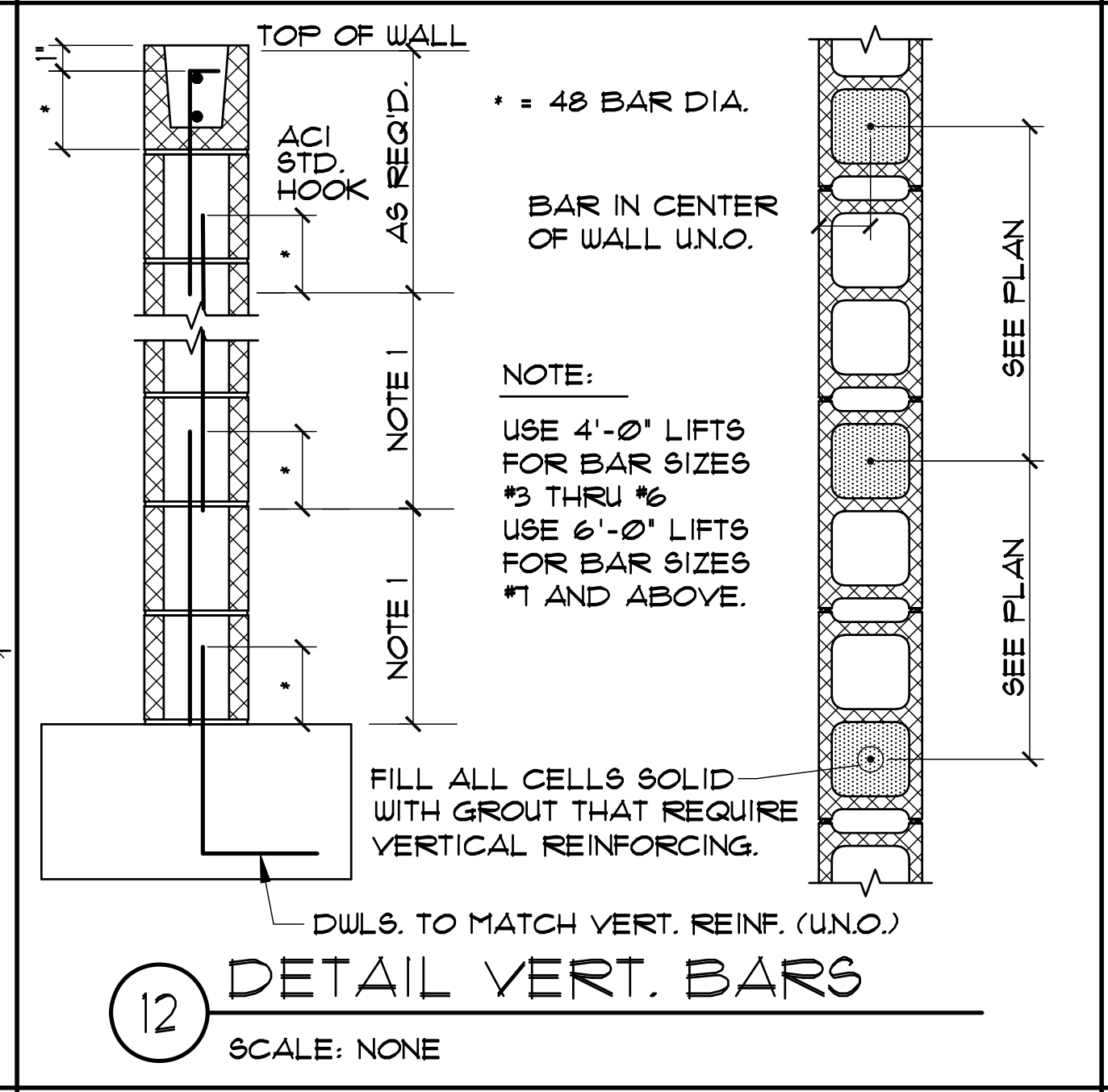
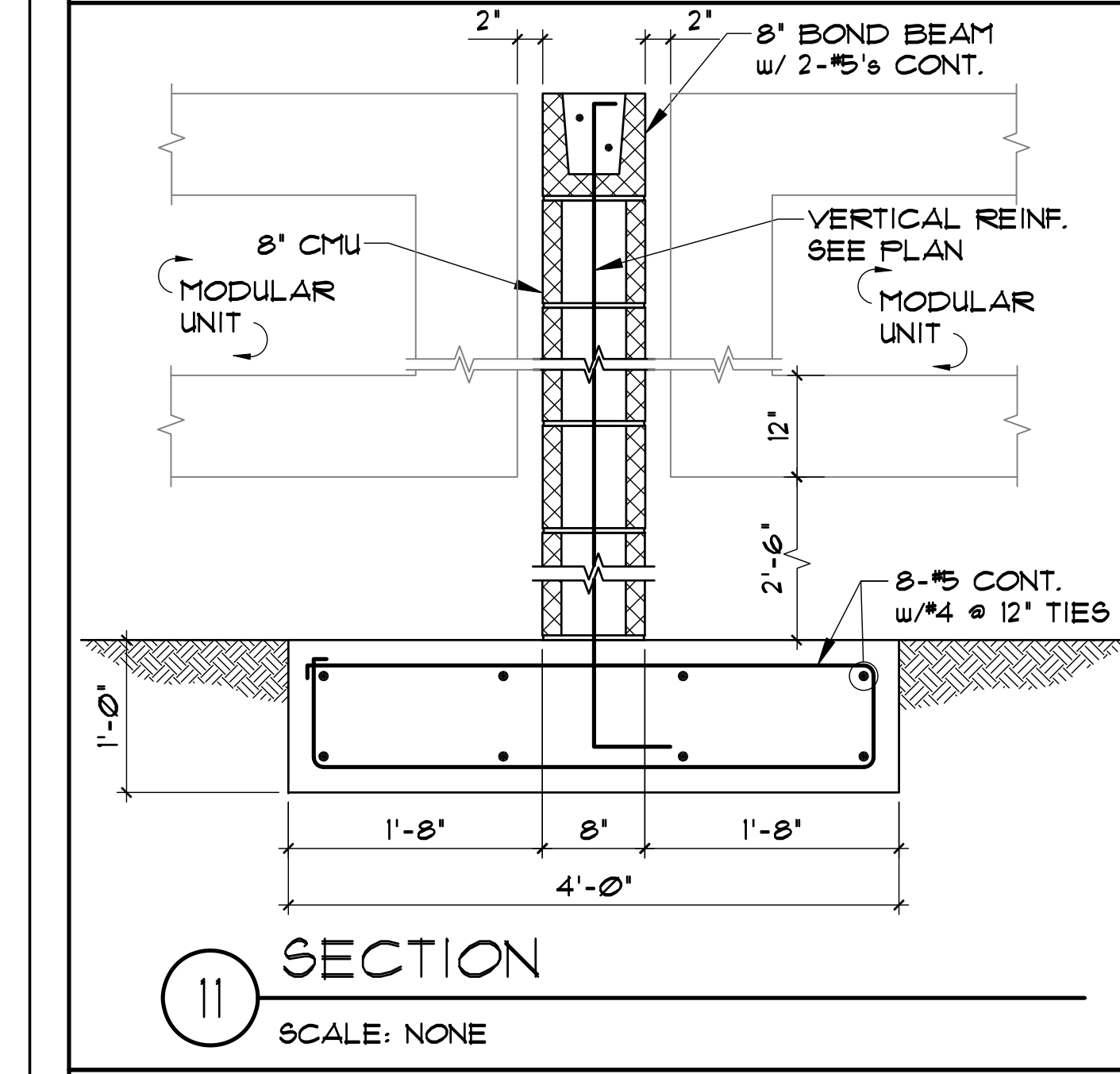
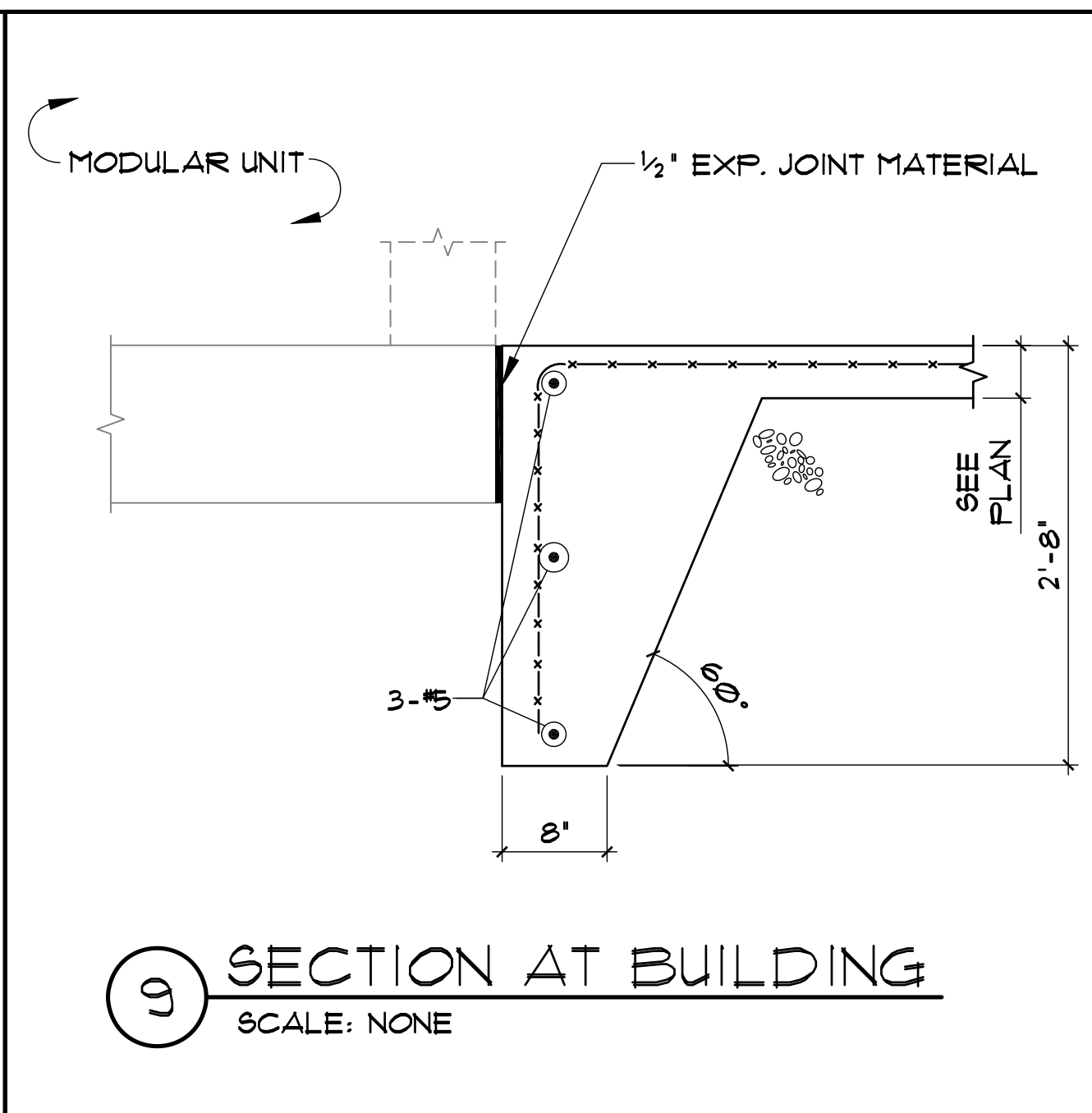
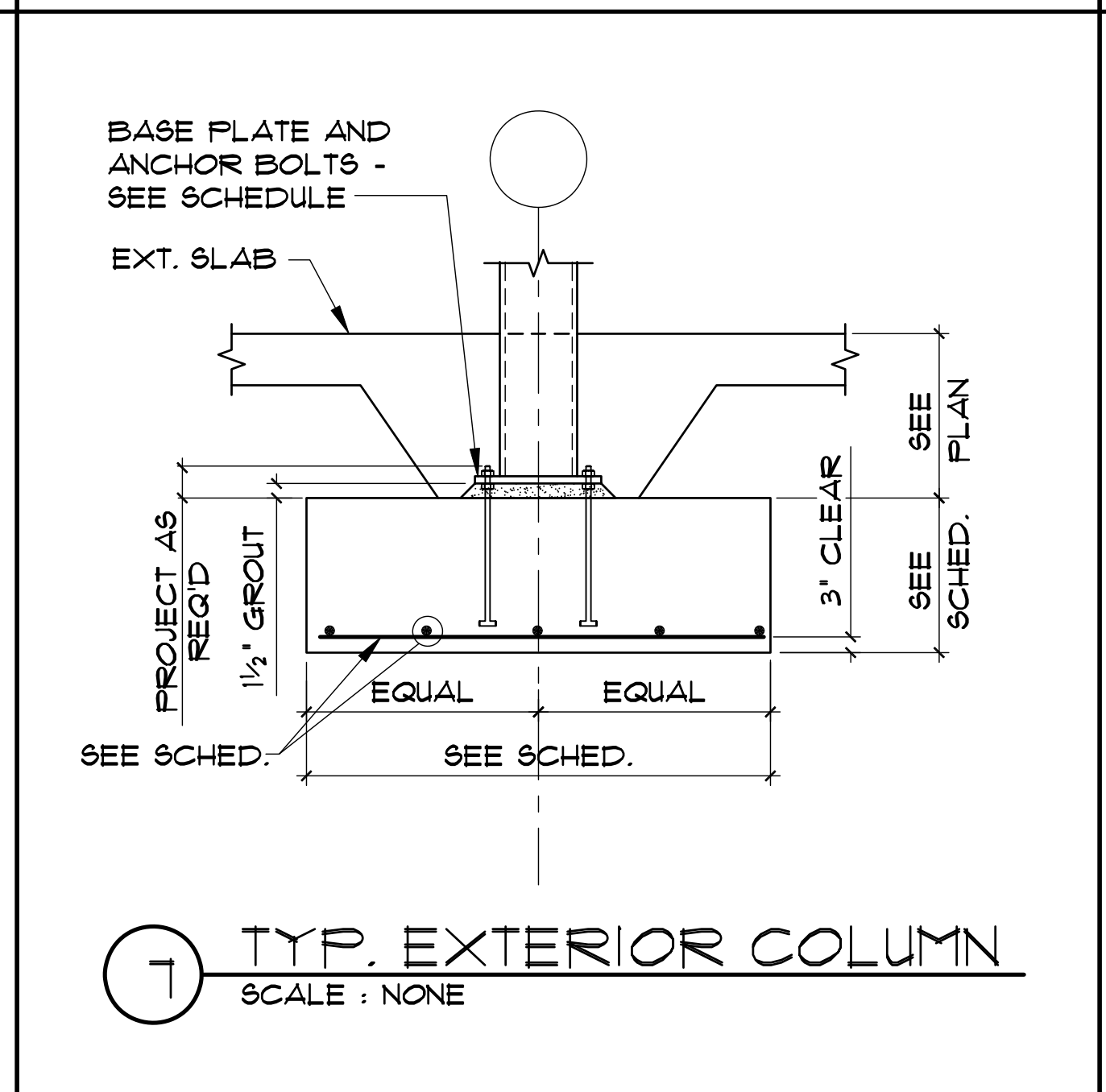
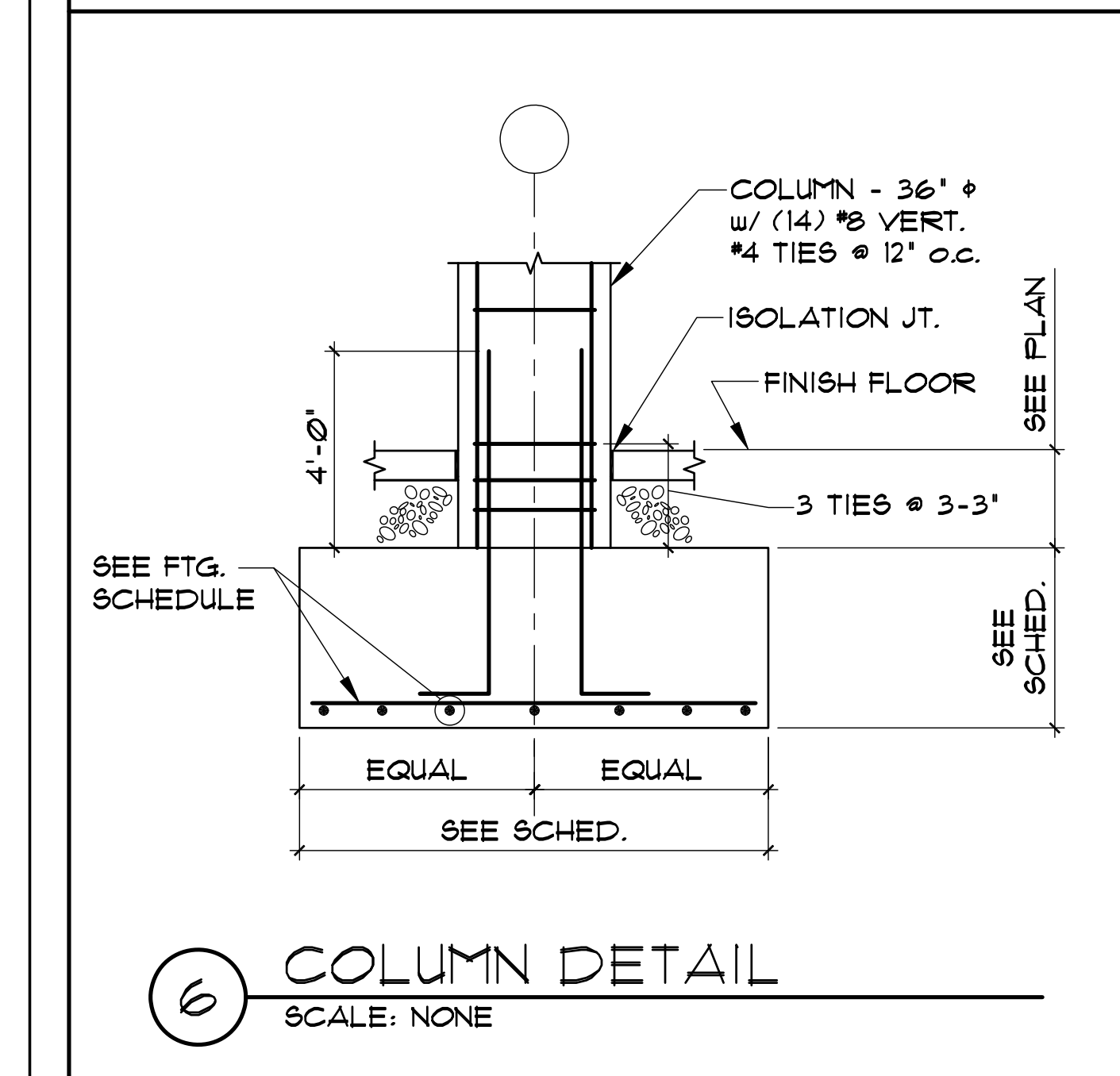
PROJECT NUMBER
10528.00
DATE
March 28, 2012

S1.2D

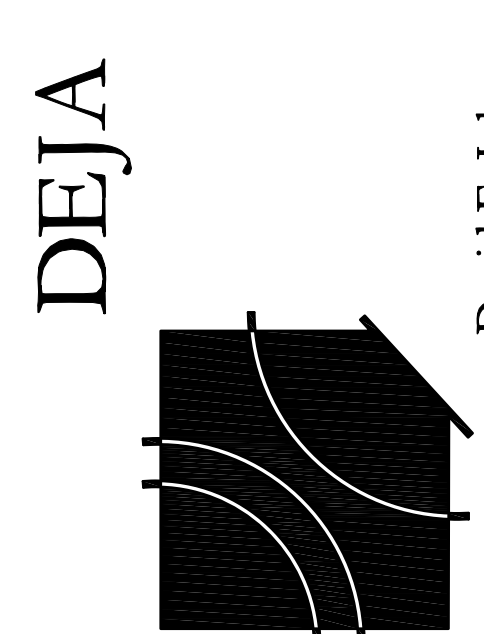
ROOF FRAMING PLAN
PART D



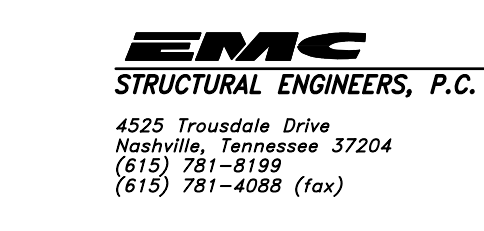
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F2	3'-0"x3'-0"x1'-0"	5-#5 EW.	
F3	3'-6"x3'-6"x1'-0"	6-#5 EW.	
F4	4'-0"x4'-0"x1'-0"	6-#5 EW.	
F5	4'-6"x4'-6"x1'-0"	7-#5 EW.	
F6	5'-0"x5'-0"x1'-0"	7-#5 EW.	
F7	5'-6"x5'-6"x1'-0"	8-#5 EW.	
F8	8'-0"x4'-0"x1'-0"	5-#5 LONG DIR. 3-#5 SHORT DIR.	TOP & BOTTOM
F9	5'-0"x5'-0"x1'-4"	6-#5 EW.	TOP & BOTTOM
F10	8'-0"x8'-0"x1'-6"	10-#5 EW.	TOP & BOTTOM



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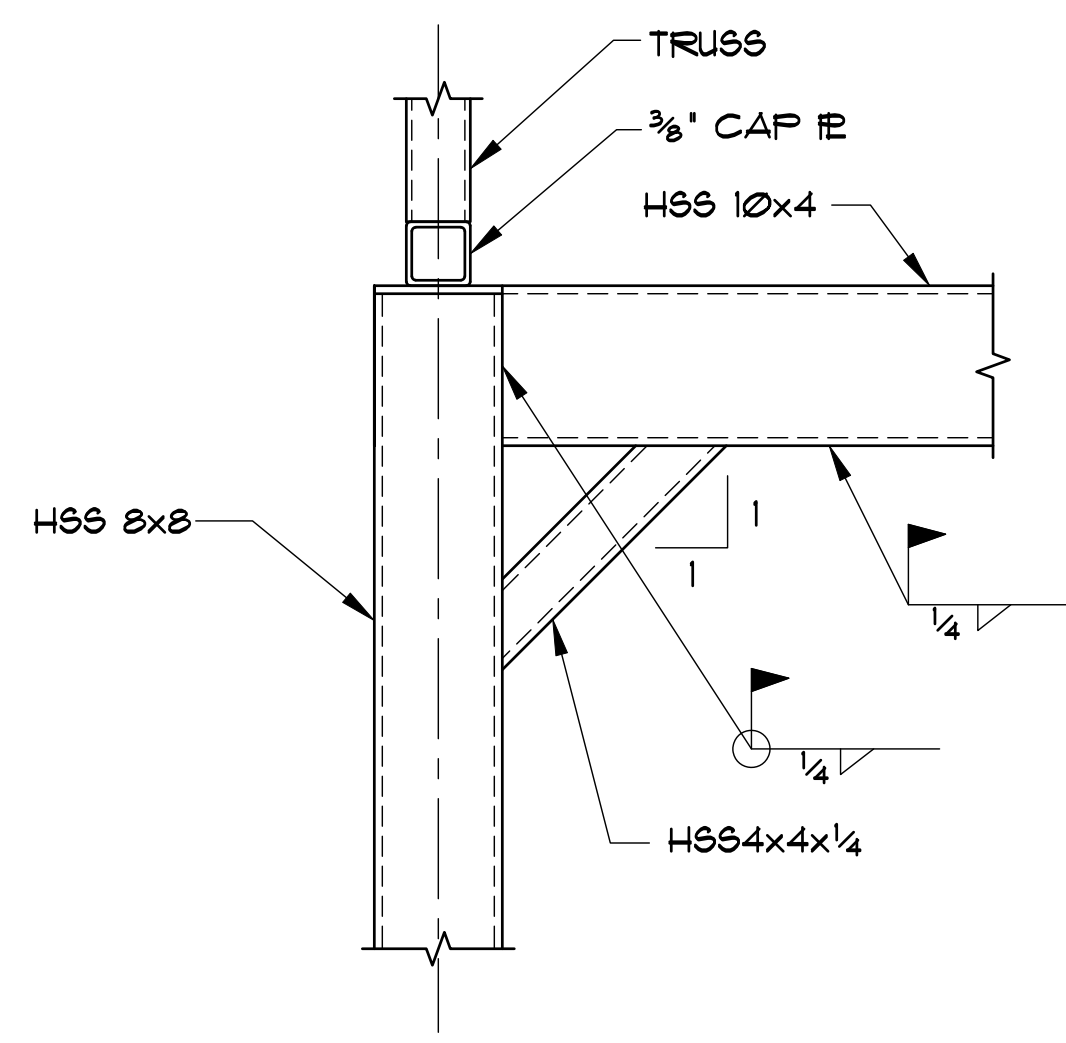
A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska



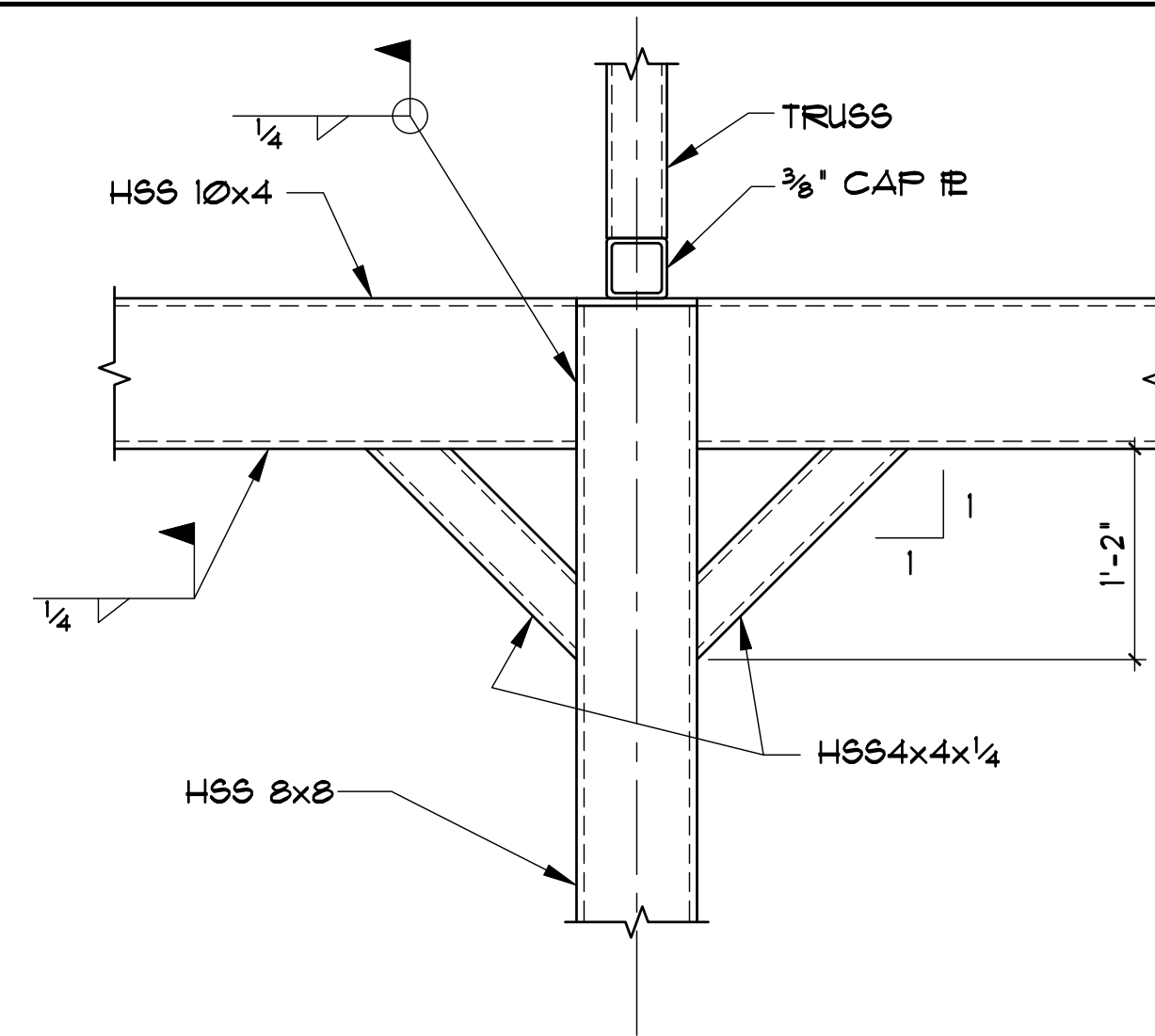
PROJECT NUMBER
10528.00
DATE
March 28, 2012

S2.1

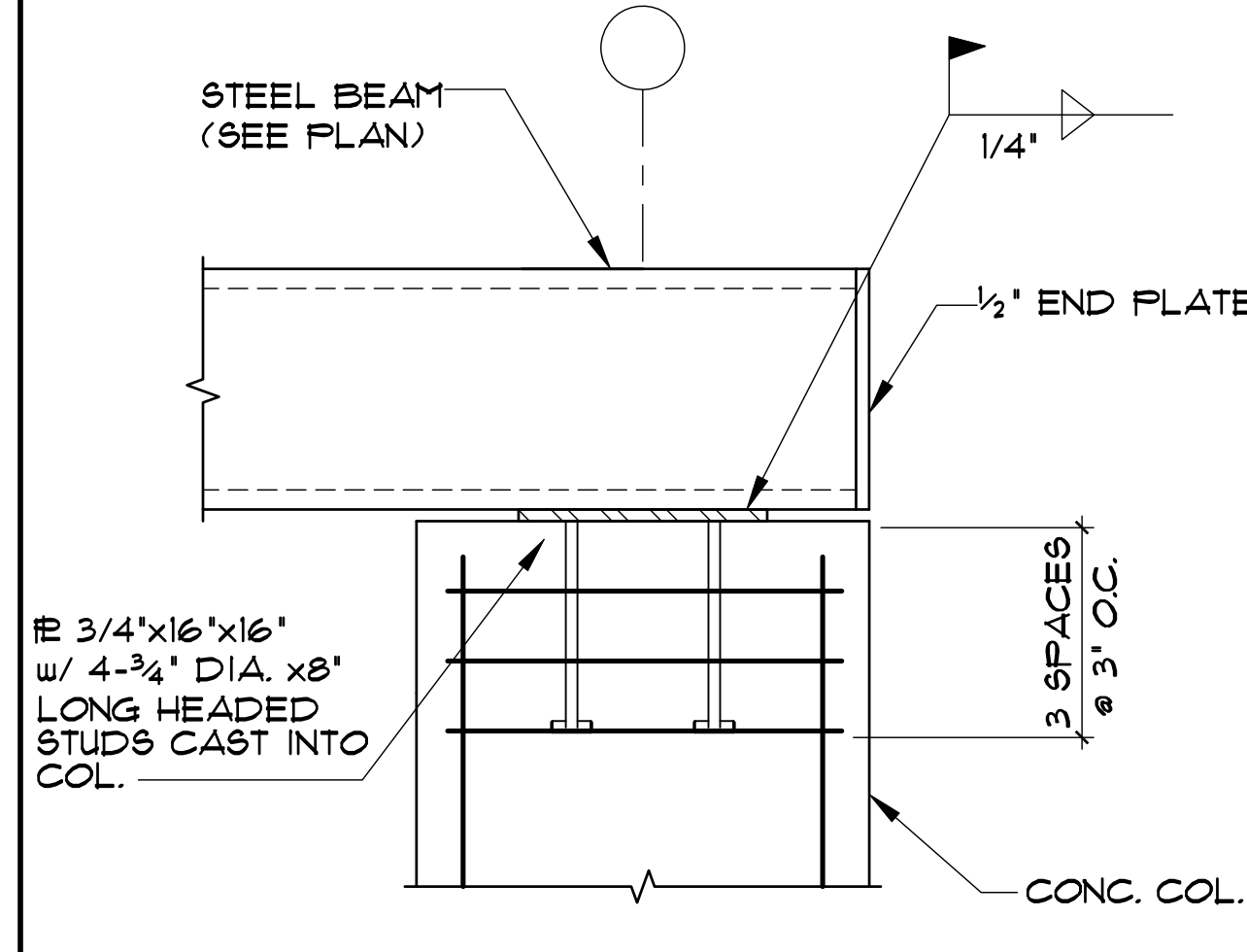
SECTIONS AND DETAILS



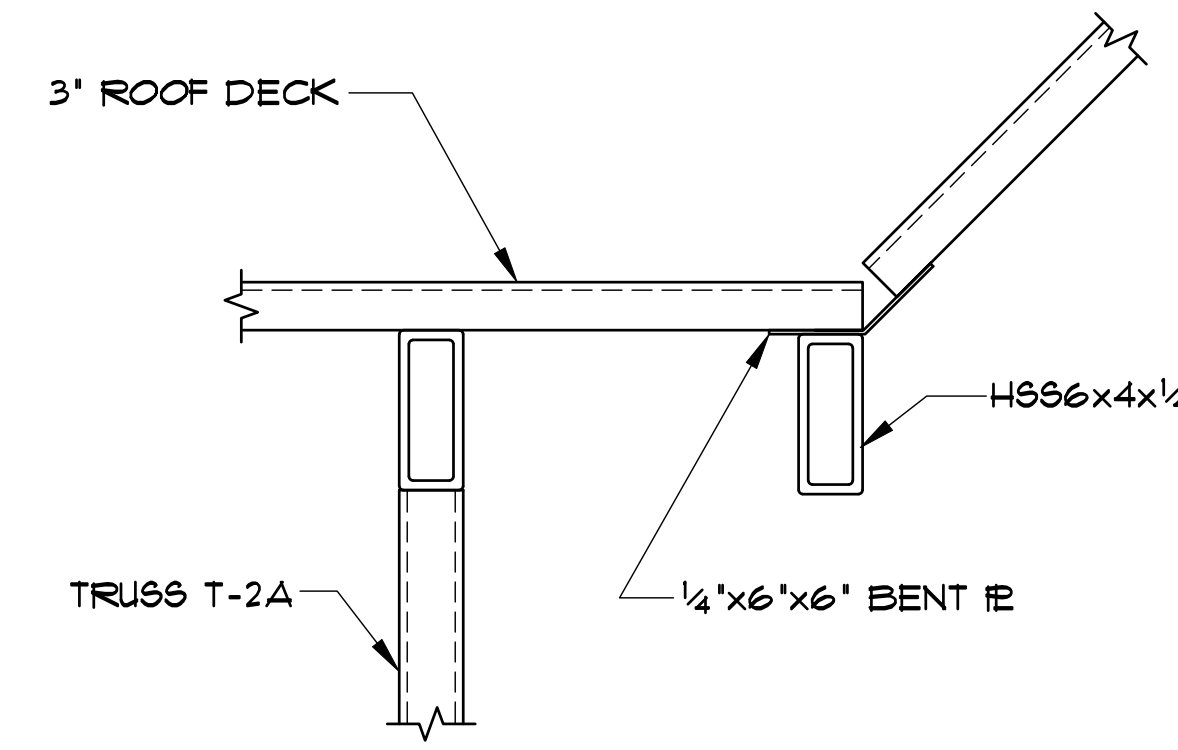
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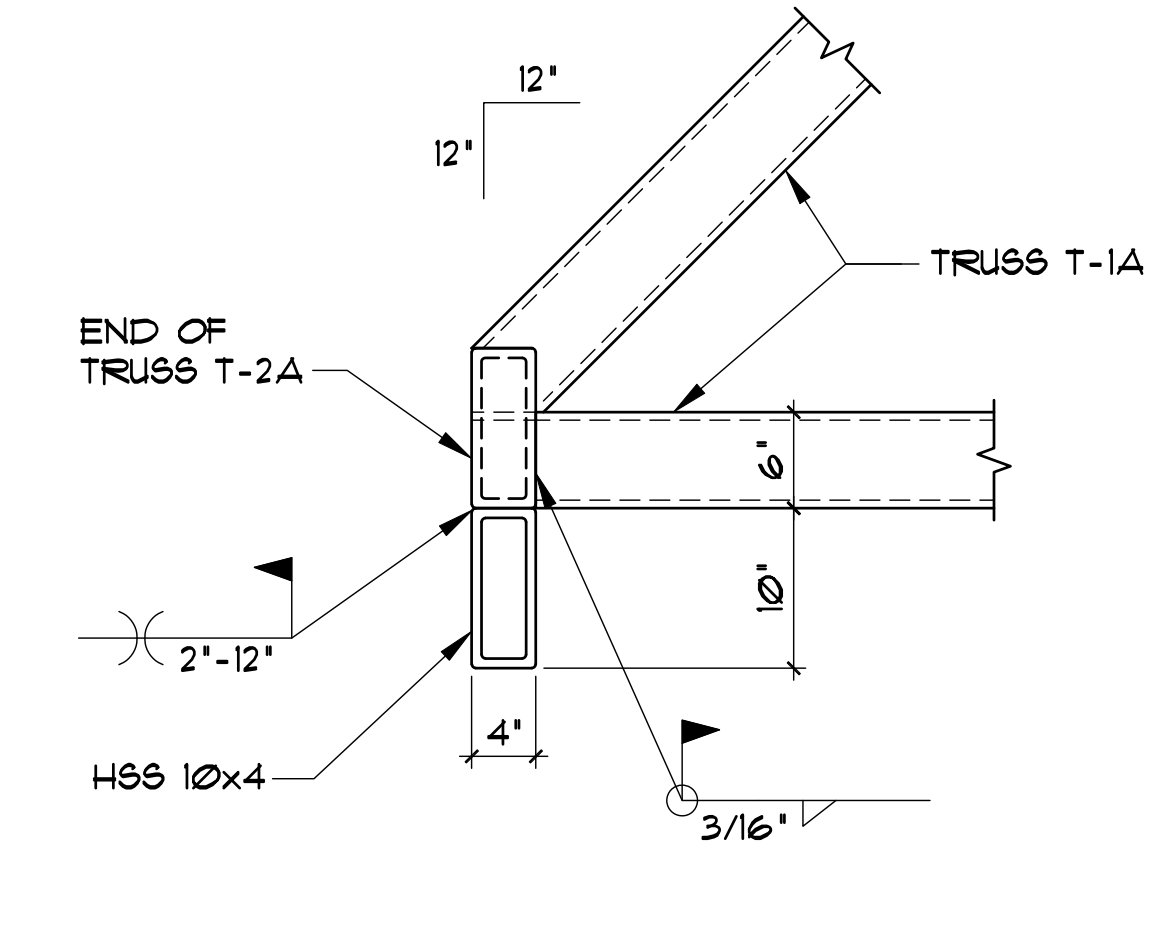
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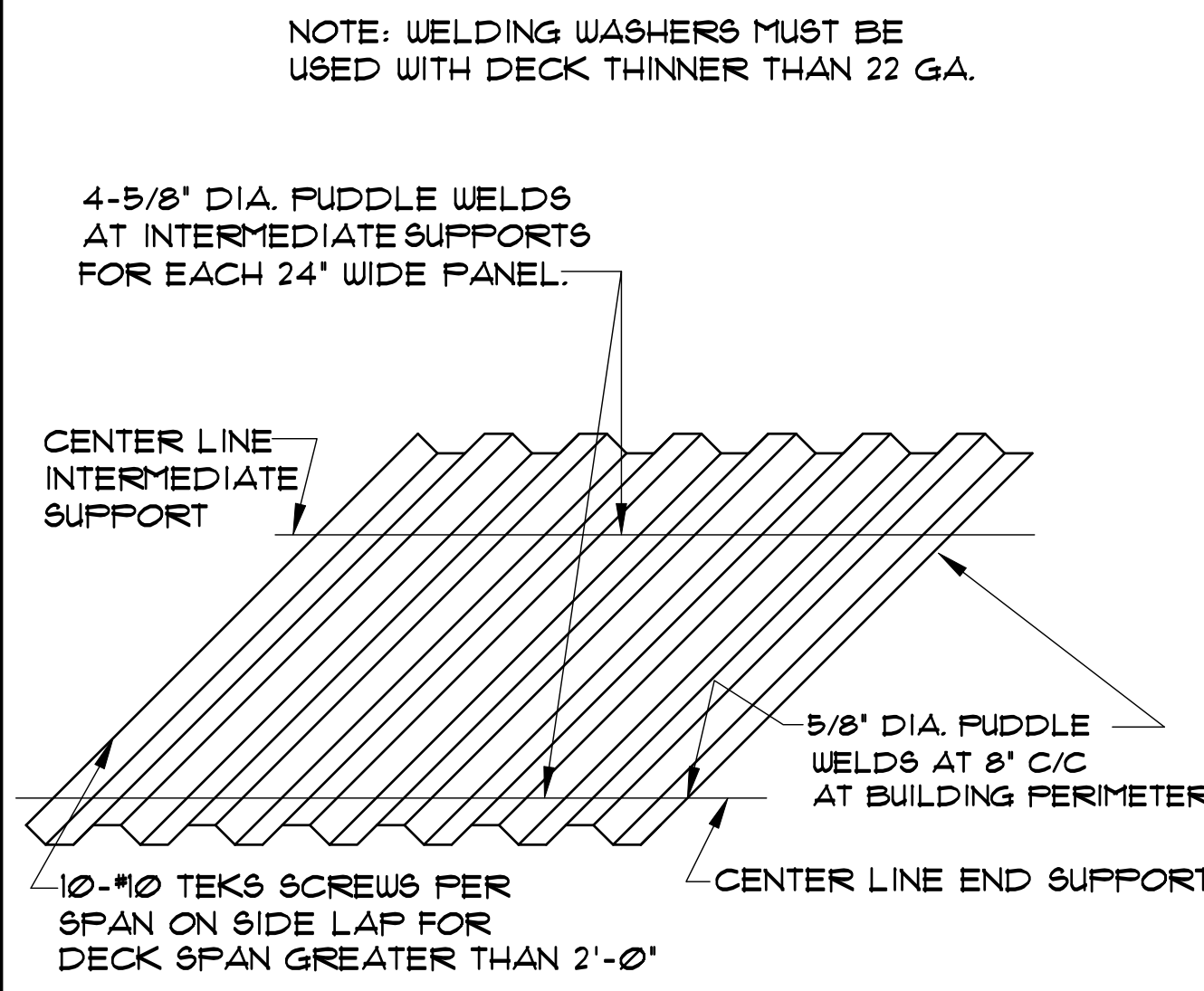
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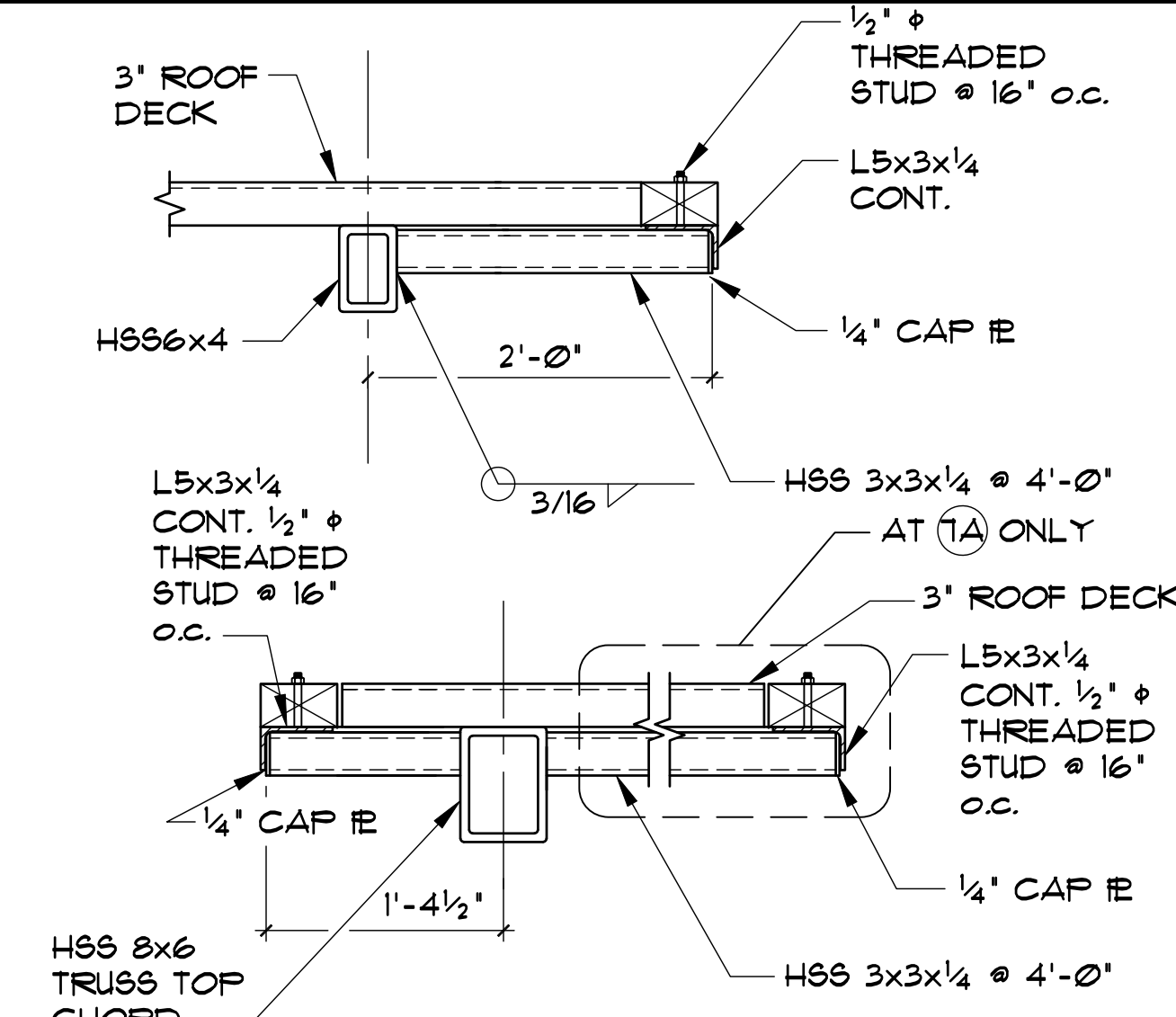
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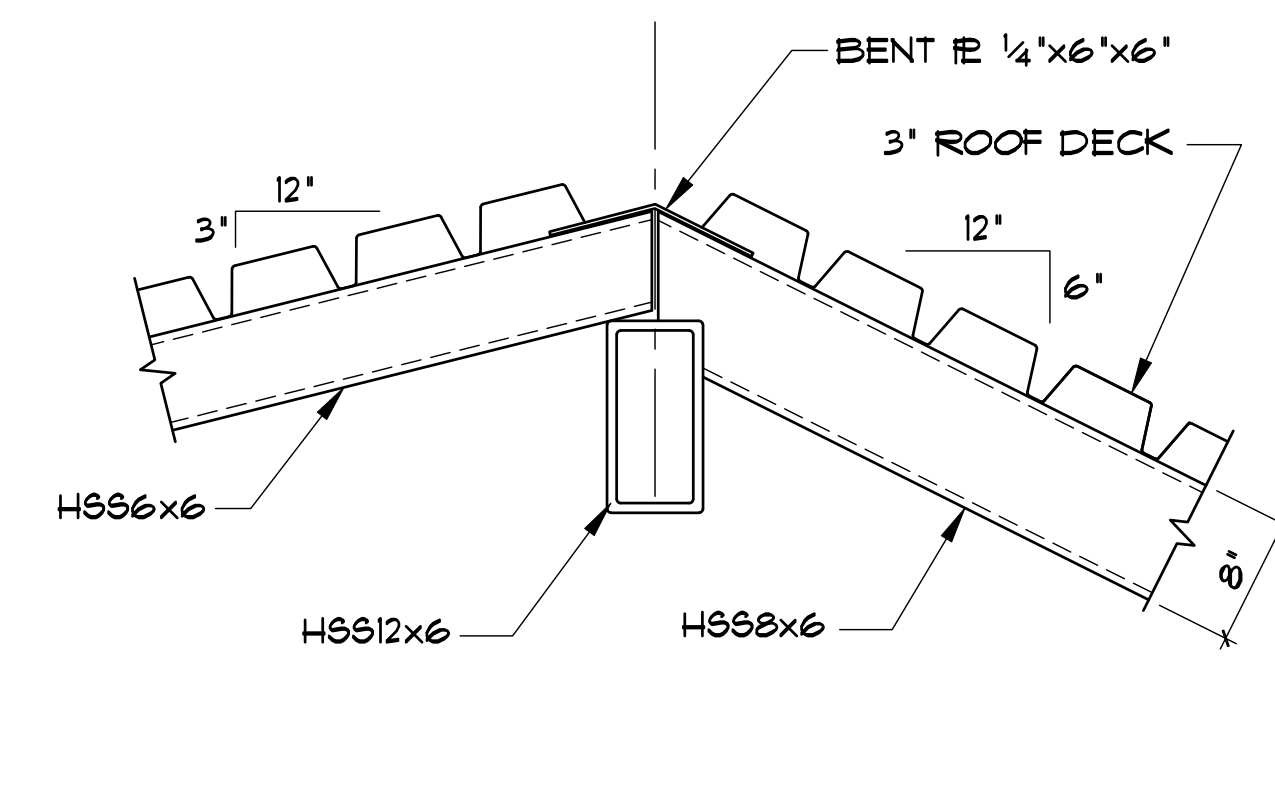
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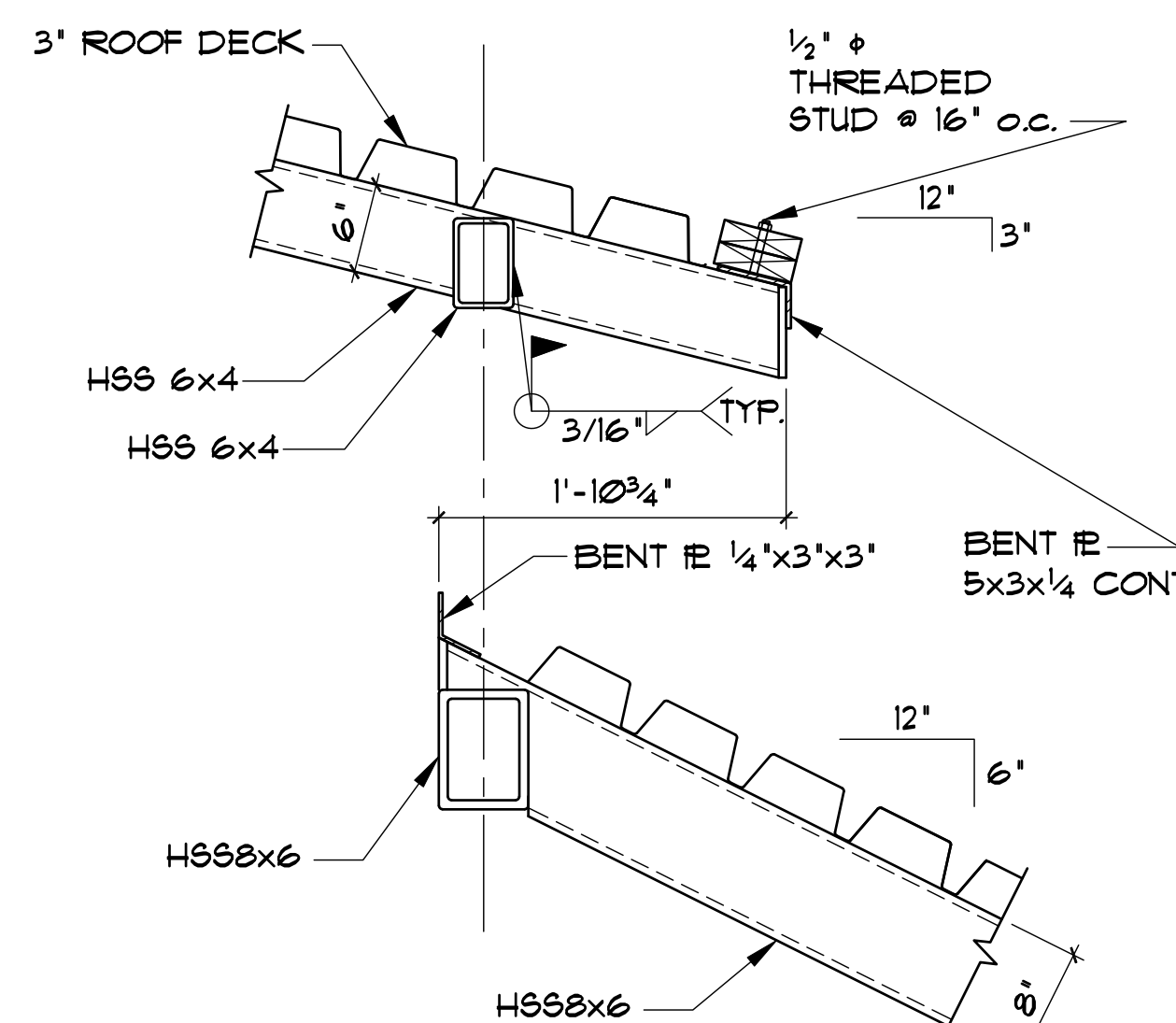
6 ROOF DECK ATTACHMENT
SCALE: NONE
3" DECK



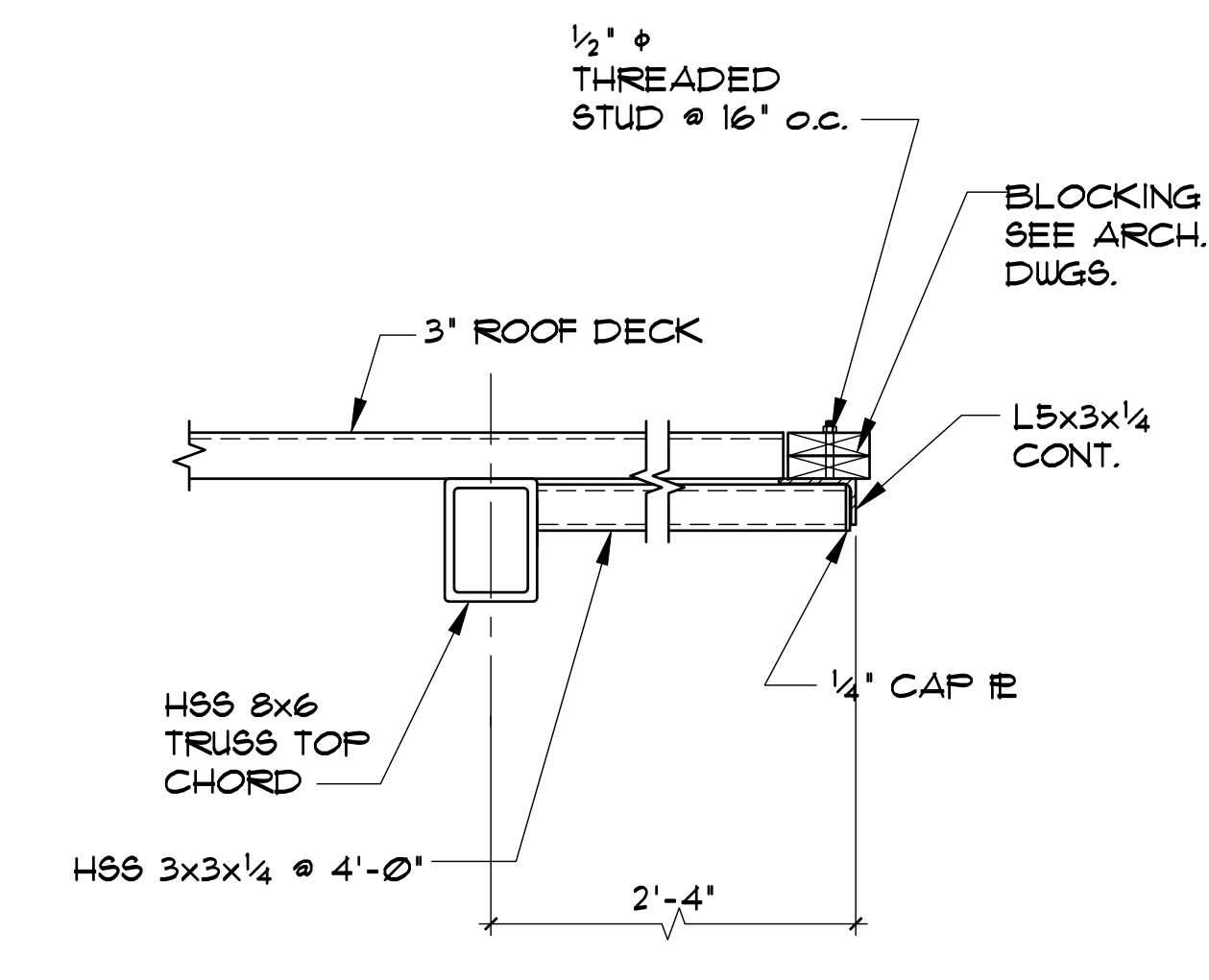
7 SECTION
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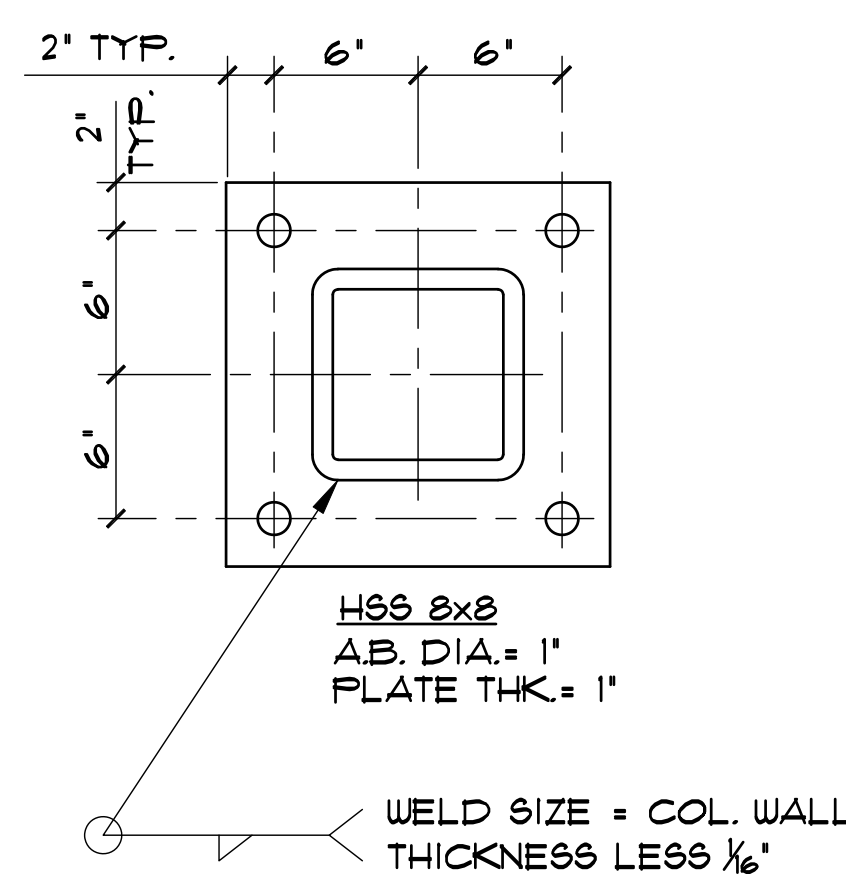
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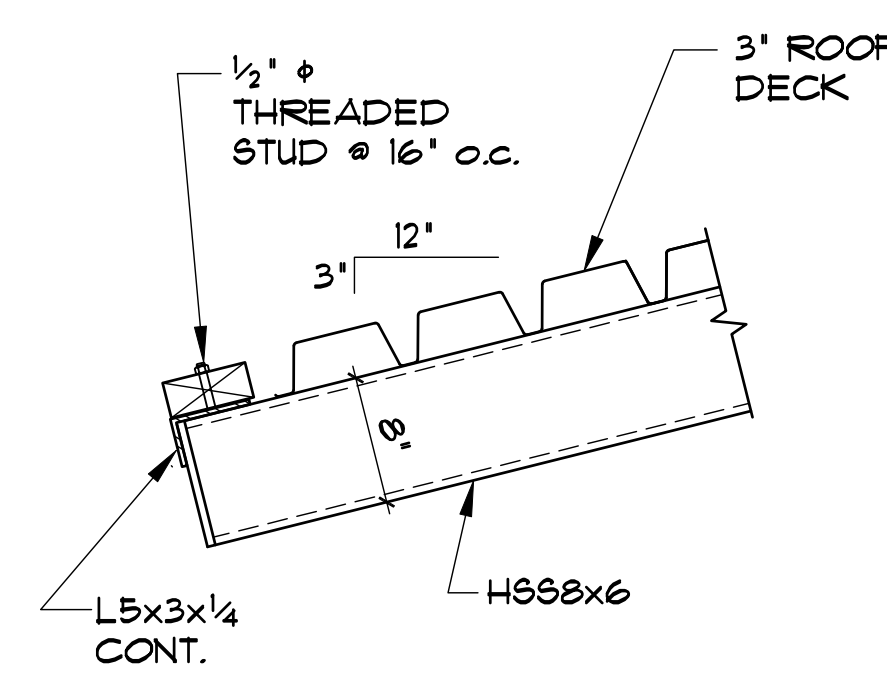
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10 SECTION
SCALE: NONE

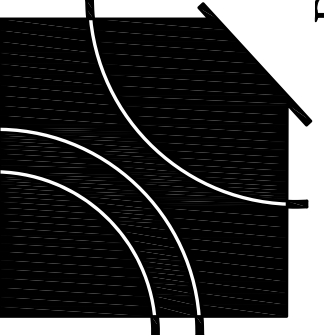


11 BASE PLATE DETAILS
SCALE: NONE



12 SECTION
SCALE: NONE

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Wrangell, Alaska

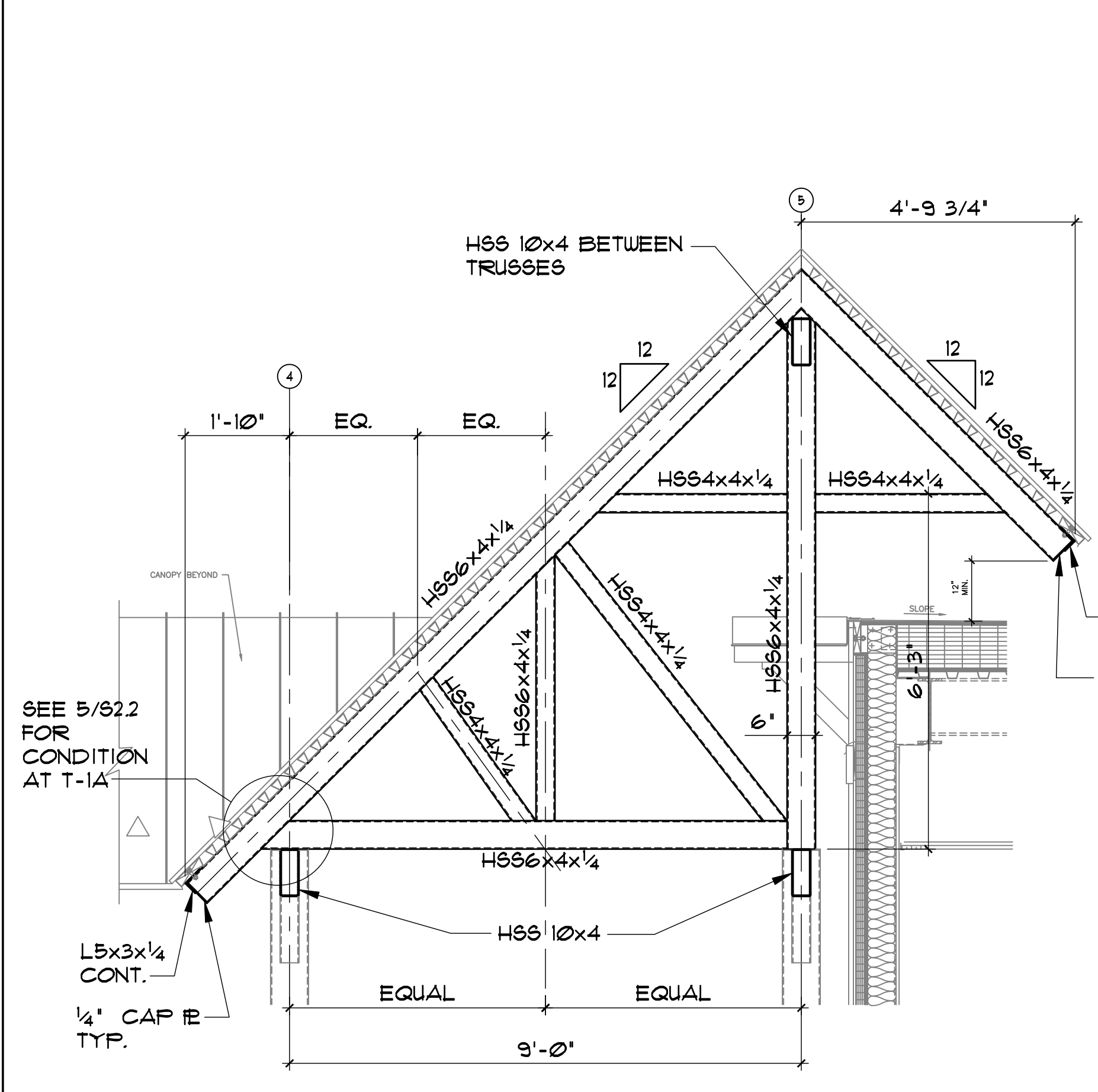


EMC
STRUCTURAL ENGINEERS, P.C.
4525 Tremadale Drive
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(615) 761-4199
(615) 761-4088 (fax)

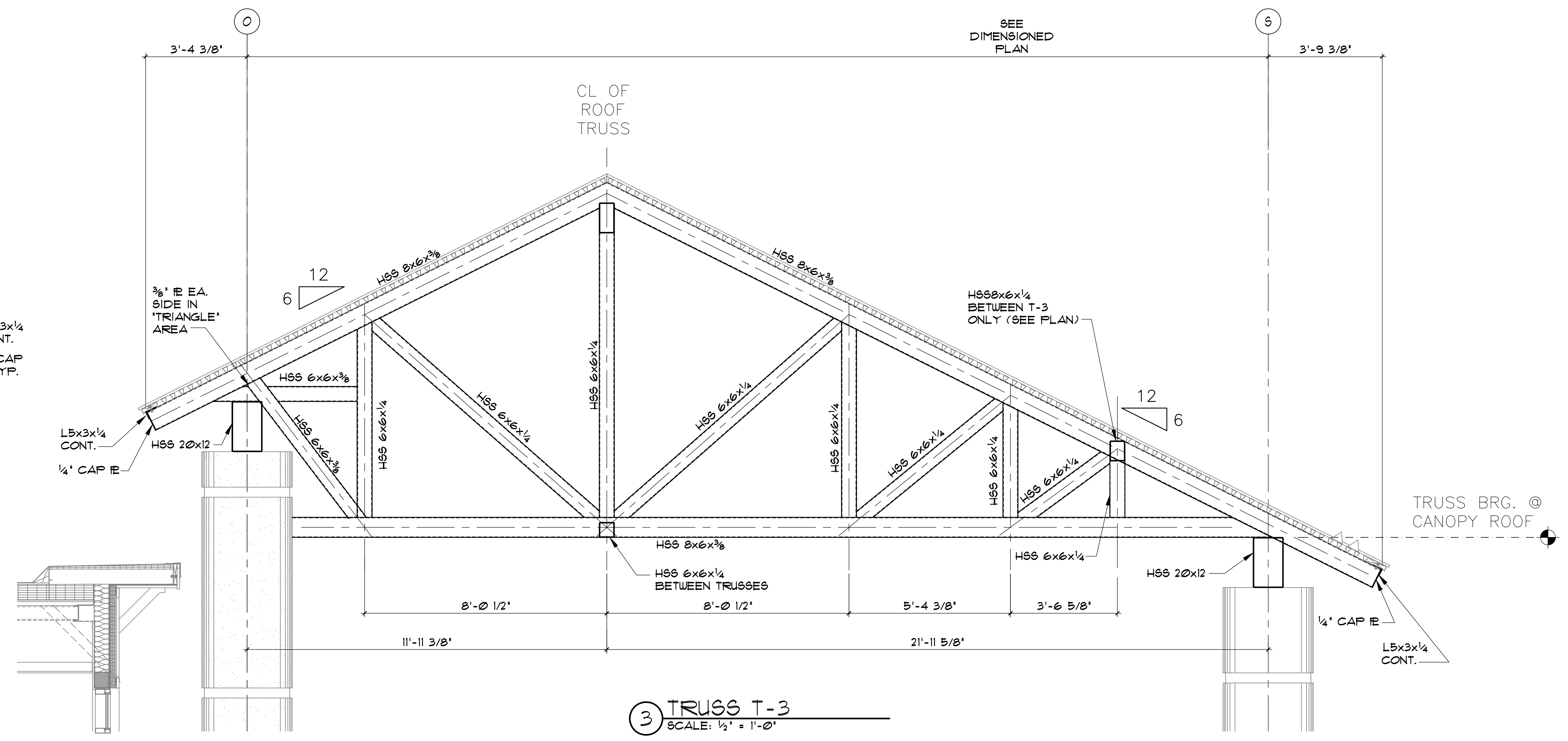
PROJECT NUMBER
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DATE
March 28, 2012

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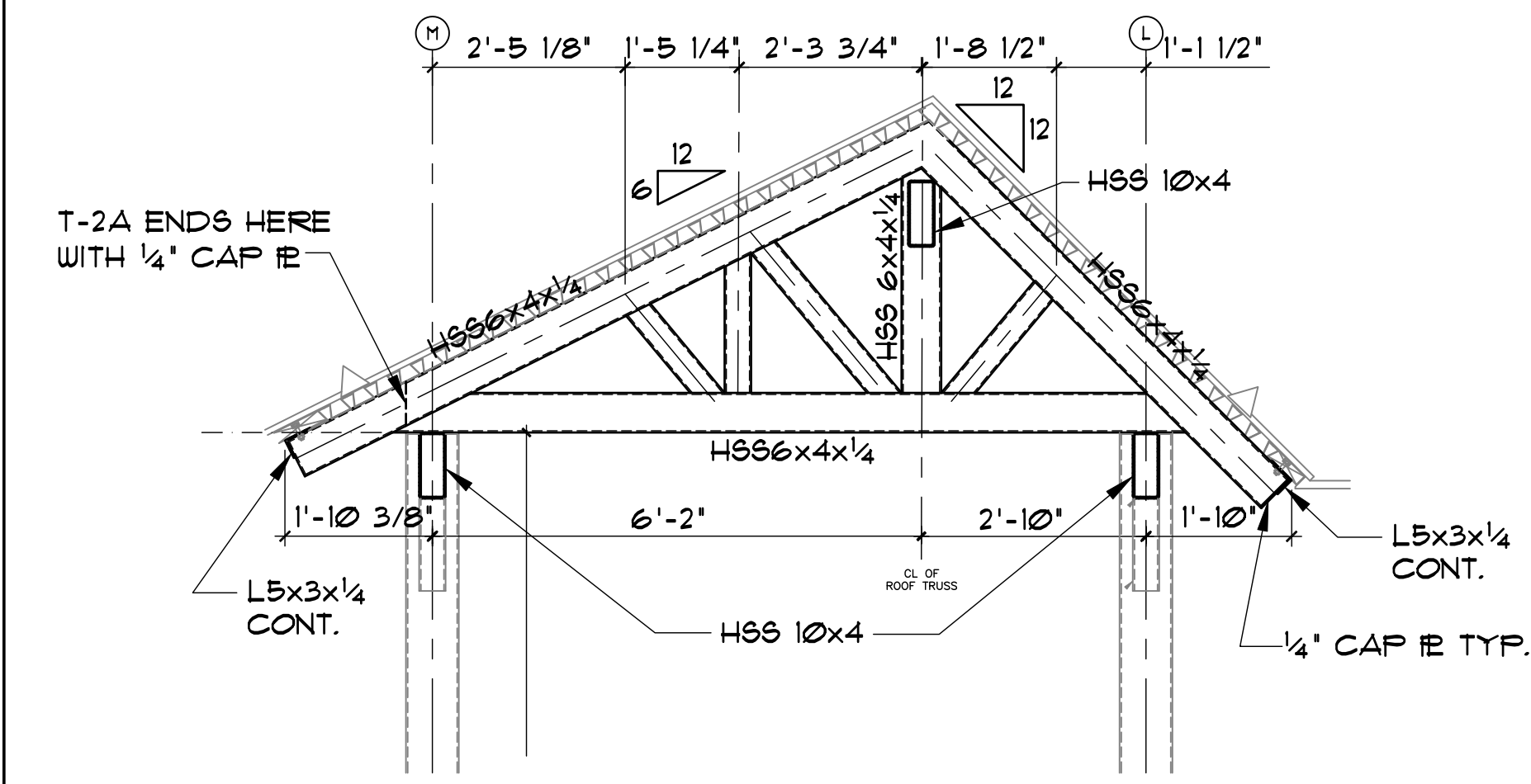
SECTIONS AND DETAILS



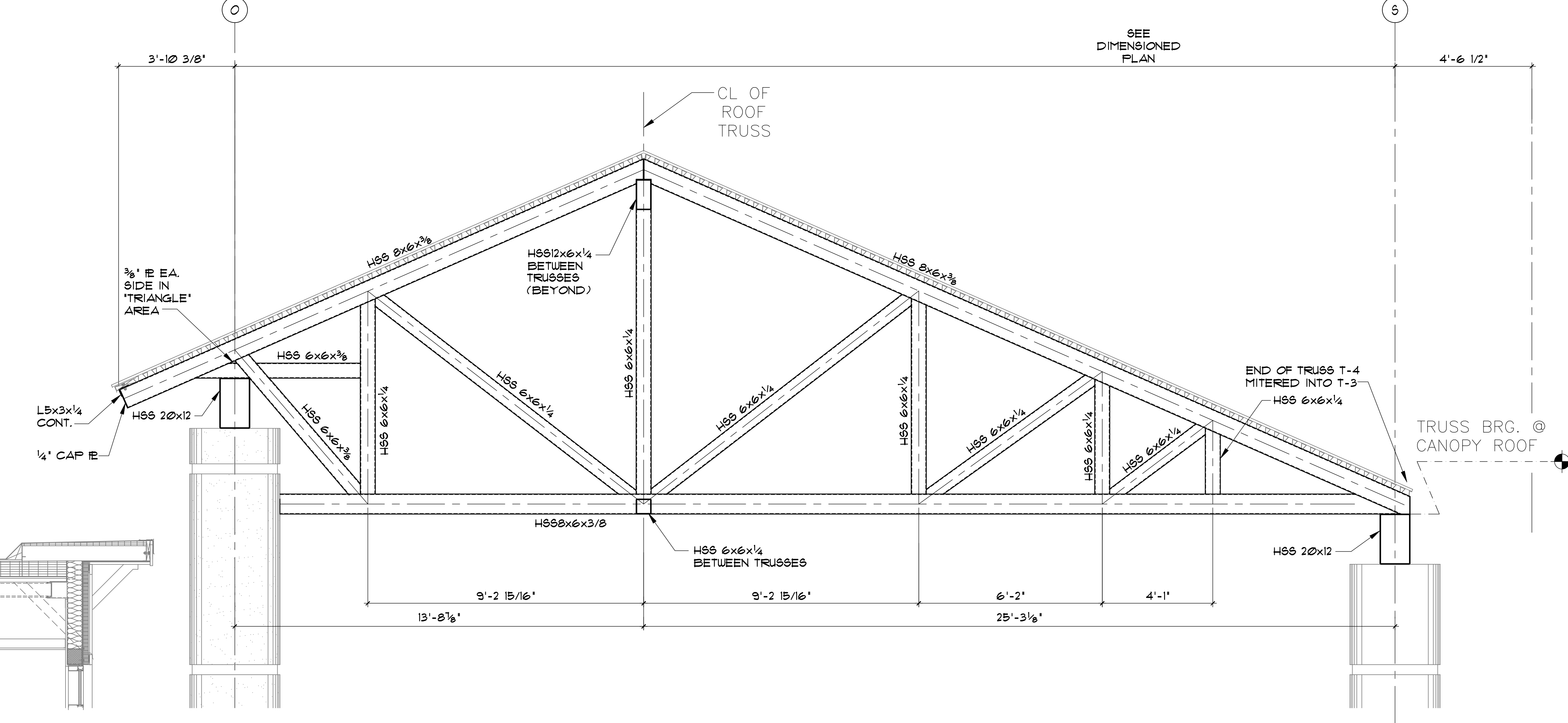
1 TRUSS T-1
SCALE: 1/2" = 1'-0"



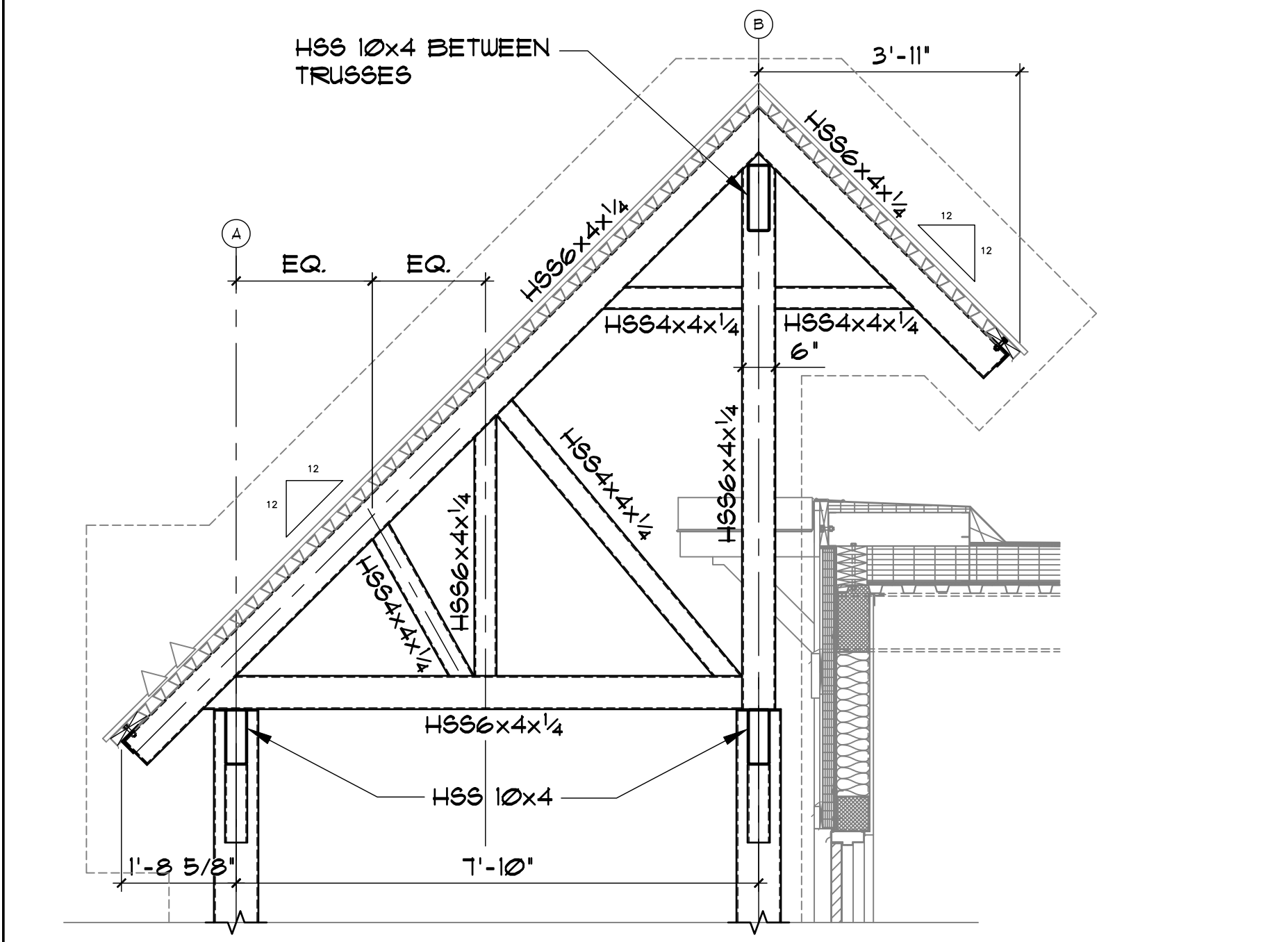
3 TRUSS T-3
SCALE: 1/2" = 1'-0"



2 TRUSS T-2
SCALE: 1/2" = 1'-0"

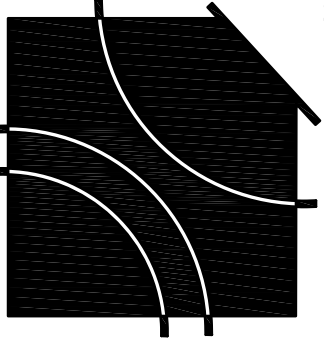


4 TRUSS T-4
SCALE: 1/2" = 1'-0"



5 TRUSS T-5
SCALE: 1/2" = 1'-0"

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Wrangell, Alaska

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March 28, 2012

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TRUSS ELEVATIONS

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DESIGN AND CODE INFORMATION

1. ALL CONSTRUCTION SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2006 EDITION.
2. VERIFY EXISTING CONDITIONS AND ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS WHICH CONFLICT WITH OTHER PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS. STRUCTURAL DRAWINGS ARE NOT INTENDED FOR BUILDING LAYOUT.
3. SHOP DRAWINGS WILL NOT BE REVIEWED BY THE DESIGNER UNTIL AFTER THE GENERAL CONTRACTOR HAS THOROUGHLY REVIEWED THE SHOP DRAWINGS, VERIFIED EXISTING CONDITIONS, AND COORDINATED THE SHOP DRAWINGS WITH OTHER AFFECTED TRADES. SUBMIT FOUR COPIES OF REVIEWED DRAWINGS FOR ENGINEER'S REVIEW. ONLY THREE SETS OF MARKED UP SHOP DRAWINGS SHALL BE RETURNED BY THE DESIGNER. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
4. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. DO NOT SCALE STRUCTURAL DRAWINGS, AND FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
6. LIVE LOADS:

FLOORS:	60 PSF
ROOFS:	50 PSF
7. ROOF LOADS:

GROUND SNOW LOAD:	60 PSF
SNOW EXPOSURE Co:	1
SNOW IMPORTANCE I:	11
THERMAL FACTOR Ct:	10
FLAT ROOF SNOW LOAD:	50 PSF
8. WIND LOADS:

BASIC WIND SPEED:	120 MPH
WIND IMPORTANCE I:	1.5
WIND EXPOSURE FACTOR:	B
INTERNAL PRESSURE COEFFICIENT:	0
CLADDING LOAD:	38 PSF
9. SEISMIC LOADS:

SEISMIC USE GROUP:	IV
SEISMIC IMPORTANCE Ie:	1.5
2 SEC SPECTRAL RESPONSE ACCELERATION Sa:	1/8
10 SEC SPECTRAL RESPONSE ACCELERATION S1:	1/3
SITE CLASS:	D
DESIGN SPECTRAL RESPONSE SDS:	180
DESIGN SPECTRAL RESPONSE SD1:	223
SEISMIC DESIGN CATEGORY:	D

SPECIAL INSPECTIONS AND TESTING

1. THE CONTRACTOR/OWNER SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM SITE INSPECTIONS AND TESTING IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN SHEET 042.

STRUCTURAL OBSERVATIONS

1. THE ENGINEER OF RECORD HAS BEEN EMPLOYED TO PERFORM PERIODIC VISUAL OBSERVATIONS OF THE STRUCTURE DURING CONSTRUCTION FOR GENERAL CONFORMANCE TO THE DESIGN DRAWINGS.

FOUNDATION NOTES

1. FOUNDATION DESIGN IS BASED ON A REPORT MADE BY R11 ENGINEERING, INC. DATED DECEMBER 15, 2010 (REPORT NO. 101119).
2. FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 2000 PSF. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED.
3. THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 2'-0" MINIMUM BELOW FINISHED GRADE.
4. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 3 INCH THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS.
5. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.

REINFORCED CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, (ACI 318-05).
2. REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60).
3. THE COMPRESSIVE STRENGTH AT 28 DAYS OF ALL CAST IN PLACE CONCRETE SHALL BE:

4000 PSI - SLABS-ON-GRADE
4000 PSI - PIERS, WALLS
4000 PSI - COLUMNS
3000 PSI - FOOTINGS
3000 PSI - ALL OTHER CONCRETE

 (SEE CIVIL DRAWINGS FOR SITE CONCRETE STRENGTH REQUIREMENTS).
4. LAP SPLICES FOR REINFORCING BARS SHALL BE CLASS B IN ACCORDANCE WITH ACI 318-05, UNLESS NOTED OTHERWISE.
5. CLEAR CONCRETE COVER FOR REINFORCING STEEL:

GRADE BEAMS AND PIERS	2"	LOCATE IN CENTER OF WALL (UNO.)
MASONRY WALLS		1-1/2" FORMED EDGES
COLUMNS		2" FORMED EDGES
FOOTINGS		3" CAST AGAINST GROUND
6. THE LONGITUDINAL REINFORCING STEEL IN BOND BEAMS, WALLS, AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.
7. MECHANICAL VIBRATORS SHALL VIBRATE ALL CONCRETE.
8. COORDINATE ALL VAPOR RETARDERS, VAPOR BARRIERS, AND WATERPROOFING OF CONCRETE SLABS-ON-GRADE AND CONCRETE WALLS WITH FINISH MATERIAL REQUIREMENTS AND ARCHITECTURAL SPECIFICATIONS.

CONCRETE MASONRY

1. MASONRY WALL CONTROL JOINTS SHALL BE LOCATED AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
2. CONCRETE MASONRY SHALL CONFORM TO THE NATIONAL CONCRETE MASONRY ASSOCIATION SPECIFICATIONS, AND HAVE A DENSITY OF 125 PCF AND SHALL HAVE A MINIMUM FRESH STRENGTH (FM) OF 1500 PSI.
3. GROUT FOR FILLING CONCRETE MASONRY CELLS SHALL CONFORM TO STANDARD SPECIFICATIONS FOR MORTAR AND GROUT FOR REINFORCED MASONRY, ASTM C-416, AND SHALL HAVE A COMPRESSIVE FRESH STRENGTH (FM) OF 3000 PSI AT 28 DAYS. THE SLUMP SHALL BE BETWEEN 9 INCHES AND 11 INCHES. WHERE THE MINIMUM DIMENSION OF ANY CONTINUOUS VERTICAL CELL IS 3 INCHES OR LESS, USE FINE GROUT, OTHERWISE USE COARSE (PEA GRAVEL) GROUT.
4. MORTAR FOR CONCRETE MASONRY SHALL BE TYPE 'M' AND SHALL CONFORM TO ASTM C-270.
5. MASONRY CONSTRUCTION SHALL BE BUILT IN LIFTS NOT TO EXCEED 4 FEET PRIOR TO GROUTING CORES. KEY NEXT GROUT LIFT INTO PRIOR LIFT BY STOPPING FIRST LIFT 2" BELOW TOP OF BLOCK.
6. ALL REINFORCING BARS IN FILLED CELLS SHALL BE DOUELED INTO FOOTINGS WITH STANDARD 90-DEGREE HOOKS AND DOUELED 1 INCHES INTO BOND BEAMS AT TOP OF WALLS.
7. MASONRY LAP SPLICES SHALL BE 48 BAR DIAMETERS (UNO.)
8. REINFORCEMENT IN WALLS SHALL BE PLACED IN THE CENTER OF THE WALL UNLESS NOTED OTHERWISE.

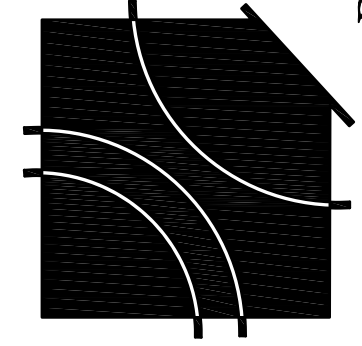
STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN THIRTEENTH EDITION.
2. STRUCTURAL STEEL ROLLED SHAPES SHALL BE ASTM A-992 GRADE 50 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES AND ANGLES SHALL BE ASTM A-36.
3. STRUCTURAL PIPE COLUMNS SHALL BE ASTM A-53, TYPE E OR S, GRADE B. STRUCTURAL TUBES SHALL BE ASTM A500, GRADE B.
4. STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL BE 3/4 INCH DIAMETER MINIMUM AND SHALL BE ASTM A-325-N, UNLESS NOTED OTHERWISE.
5. METAL DECK SHALL BE INSTALLED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE SPECIFICATIONS, LATEST EDITION.
6. ANCHOR BOLTS SHALL BE ASTM A-307 HEADED BOLTS. MINIMUM ANCHOR BOLT EMBEDMENT SHALL BE 12 BOLT DIAMETERS UNLESS NOTED OTHERWISE. CLEAN ANCHOR BOLTS OF ALL GREASE, DIRT, ETC. BEFORE INSTALLATION.
7. WELDS SHOWN ON THE STRUCTURAL DRAWINGS ARE THE MINIMUM REQUIRED BY DESIGN. THE FABRICATOR'S DRAWINGS SHALL SHOW WELDS AND THEY SHALL CONFORM TO AWS SPECIFICATIONS. ALL WELDING SHALL BE DONE WITH E-70 SERIES ELECTRODES.
8. PAINT ALL STRUCTURAL STEEL THAT DOES NOT RECEIVE SPRAY-ON FIREPROOFING WITH ONE COAT OF RUST-INHIBITIVE PRIMER 25 MILS IN THICKNESS. THE COMPATIBILITY OF PRIMER AND ANY TOP COAT SHALL BE VERIFIED BEFORE ANY PAINTING IS PERFORMED. TOUCH-UP ALL EXPOSED METAL AFTER FIELD INSTALLATION. ALL STRUCTURAL STEEL WHICH IS EXPOSED TO THE ELEMENTS SHALL RECEIVE TWO COATS OF EXTERIOR ENAMEL WHICH IS COMPATIBLE WITH THE PRIMED SURFACE.
9. STRUCTURAL STEEL SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAILS, CONNECTIONS, AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS. STRUCTURAL STEEL SHOP DRAWINGS SHALL NOT INCLUDE MISCELLANEOUS STEEL.

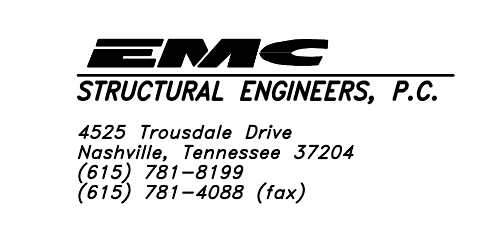
PRE-ENGINEERED MODULAR BUILDING

1. THE DESIGN OF PRE-ENGINEERED SYSTEMS WHICH ARE DESIGNED/ENGINEERED BY OTHERS, IS THE SOLE RESPONSIBILITY OF THE SUPPLIER AND ITS DESIGN ENGINEER, DULY LICENSED IN THE PROJECT STATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIMENSIONAL ACCURACY AND CONFORMANCE WITH THE INFORMATION CONTAINED IN THE STRUCTURAL DRAWINGS.
2. FOOTING SIZES HAVE BEEN BASED ON ASSUMED COLUMN REACTIONS. THE PRE-ENGINEERED MODULAR BUILDING MANUFACTURER SHALL SUBMIT REACTIONS TO THE ENGINEER OF RECORD FOR VERIFICATION OF FOOTING SIZES.

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GENERAL NOTES

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS/QUALITY ASSURANCE PROGRAM

GENERAL:

THIS STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS PLAN IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE STRUCTURAL TESTING AND INSPECTION OF THE WORK REQUIRED BY CHAPTER 11 OF THE BUILDING CODE THAT IS WITHIN THE SCOPE OF THE STRUCTURAL ENGINEERING SERVICES FOR THIS PROJECT. REFER TO OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS FOR TESTING AND INSPECTIONS REQUIRED OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR OTHER BUILDING COMPONENTS.

CONTRACTOR RESPONSIBILITIES:

THE CONTRACTOR SHALL SUBMIT TO THE BUILDING OFFICIAL AND THE ARCHITECT A WRITTEN STATEMENT OF RESPONSIBILITY THAT CONTAINS THE FOLLOWING:

- 1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED WITHIN THIS STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS.
2. ACKNOWLEDGEMENT THAT CONTROL SHALL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

THE STRUCTURAL TESTING/INSPECTION AGENCY THAT IS TO ACT AS THE SPECIAL INSPECTOR WILL BE HIRED BY THE OWNER BUT CONTRACTOR SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR WORK OR MATERIALS NOT COMPLYING WITH THE CONSTRUCTION DOCUMENTS DUE TO NEGLIGENCE OR NONCONFORMANCE AND SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR HIS CONVENIENCE.

CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE SPECIAL INSPECTOR IS PRESENT FOR ALL WORK REQUIRING SPECIAL INSPECTION. ANY WORK THAT REQUIRES SPECIAL INSPECTION AND IS PERFORMED WITHOUT THE SPECIAL INSPECTOR BEING PRESENT IS SUBJECT TO BEING DEMOLISHED AND RECONSTRUCTED.

CONTRACTOR HAS THE FOLLOWING RESPONSIBILITIES TO THE SPECIAL INSPECTOR:

- 1. PROVIDE COPY OF CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR.
2. NOTIFY THE SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF OPERATIONS TO ALLOW ASSIGNMENT OF PERSONNEL AND SCHEDULING OF TESTS.
3. COOPERATE WITH SPECIAL INSPECTOR AND PROVIDE ACCESS TO WORK.
4. PROVIDE SAMPLES OF MATERIALS TO BE TESTED IN REQUIRED QUANTITIES.
5. PROVIDE STORAGE SPACE FOR THE SPECIAL INSPECTOR'S EXCLUSIVE USE, SUCH AS FOR STORING AND CURING CONCRETE TESTING SAMPLES.
6. PROVIDE LABOR TO ASSIST THE SPECIAL INSPECTOR IN PERFORMING TESTS/INSPECTIONS.

SPECIAL INSPECTOR'S RESPONSIBILITIES:

SPECIAL INSPECTORS SHALL BE A LICENSED ENGINEER IN THE STATE OF ALASKA OR IS PERFORMING APPROPRIATE DUTIES DIRECTLY UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF ALASKA AND HAS A THOROUGH UNDERSTANDING OF THE SPECIAL INSPECTION REQUIREMENTS OF THE 2006 IBC. THE SPECIAL INSPECTOR SHALL BE AN INDIVIDUAL OR INDIVIDUALS CERTIFIED OR EXPERIENCED TO PERFORM SUCH INSPECTIONS IN A PARTICULAR FIELD.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. PERIODIC REPORTS SHALL BE PROVIDED AND SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED TO THE SATISFACTION OF THE SPECIAL INSPECTOR, THE DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

A WEEKLY REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED. AT THE COMPLETION OF THE SPECIAL INSPECTIONS, THE LICENSED PROFESSIONAL ENGINEER IN CHARGE OF PERFORMING THE SPECIAL INSPECTION SHALL CERTIFY THE FINAL SPECIAL INSPECTION REPORT AND AFFIX HIS/HER SEAL TO THE SPECIAL INSPECTOR'S FINAL REPORT. PROVIDE THREE (3) COPIES OF THIS REPORT: TWO TO THE ARCHITECT AND ONE TO THE STRUCTURAL ENGINEER OF RECORD.

THE SPECIAL INSPECTOR FOR THIS PROJECT IS AS FOLLOWS:

SOILS AND FOUNDATIONS:

SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS TO VERIFY THE FOLLOWING:

- 1. STRUCTURAL FILL COMPLIES WITH SPECIFICATIONS AND THE PROJECT GEOTECHNICAL.
2. OBSERVE PROOFROLLING.
3. PERFORM FIELD DENSITY TEST TO VERIFY COMPACTION OF STRUCTURAL FILL. AS A MINIMUM, PERFORM ONE TEST PER LIFT FOR EVERY 2500 SQUARE FEET OF FILL PLACED.
4. FOUNDATION BEARING CAPACITY OF ALL FOOTINGS.

CAST-IN-PLACE CONCRETE:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

- 1. SUBMIT MANUFACTURER'S DATA FOR TENSILE AND COMPRESSIVE SPLICES.
2. ESTABLISH CONCRETE MIX DESIGN PROPORTIONS PER ACI 318, CHAPTER 5. SUBMIT THREE COPIES OF THE CONCRETE MIX DESIGNS. INCLUDE THE FOLLOWING:
A. TYPE AND QUANTITIES OF MATERIALS
B. SLUMP
C. AIR CONTENT
D. FRESH UNIT WEIGHT
E. AGGREGATES SIEVE ANALYSIS
F. DESIGN COMPRESSIVE STRENGTH
G. LOCATION OF PLACEMENT IN STRUCTURE
H. METHOD OF PLACEMENT
I. METHOD OF CURING
J. SEVEN-DAY AND 28-DAY COMPRESSIVE STRENGTHS

- 3. SUBMIT A CERTIFICATION FROM EACH MANUFACTURER OR SUPPLIER STATING THAT MATERIALS MEET THE REQUIREMENTS OF THE SPECIFIED ASTM AND ACI STANDARDS.
4. SUBMIT CERTIFICATION THAT THE READY-MIXED CONCRETE PLANT COMPLIES WITH THE REQUIREMENTS OF THE NATIONAL READY MIX CONCRETE ASSOCIATION.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

- 1. VERIFY GRADE, QUANTITY, LOCATION, AND THE PLACEMENT OF REINFORCING STEEL AND POST TENSION CABLES PRIOR TO CONCRETE PLACEMENT.
2. EXAMINE CONCRETE IN TRUCK TO VERIFY THAT CONCRETE APPEARS PROPERLY MIXED.
3. PERFORM A SLUMP TEST AS DEEMED NECESSARY FOR EACH CONCRETE LOAD. RECORD IF WATER OR ADMIXTURES ARE ADDED TO THE CONCRETE AT THE JOB SITE. PERFORM ADDITIONAL SLUMP TESTS AFTER JOB SITE ADJUSTMENTS.
4. INSPECT SIZE, POSITIONING AND EMBEDMENT OF ANCHOR RODS. INSPECT CONCRETE PLACEMENT AND CONSOLIDATION AROUND ANCHORS.
5. INSPECT PLACEMENT OF CONCRETE. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION, VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED.
6. INSPECT CURING, COLD WEATHER PROTECTION AND HOT WEATHER PROTECTION PROCEDURES.
7. MOLD FIVE SPECIMENS PER SET FOR COMPRESSIVE STRENGTH TESTING: ONE SET FOR EACH 15 CUBIC YARDS OF EACH MIX DESIGN PLACED IN ANY ONE DAY. FOR EACH SET MOLDED, RECORD:
A. SLUMP
B. AIR CONTENT
C. UNIT WEIGHT
D. TEMPERATURE, AMBIENT, AND CONCRETE
E. LOCATION OF PLACEMENT
F. ANY PERTINENT INFORMATION, SUCH AS ADDITION OF WATER, ADDITION OF ADMIXTURES, ETC.
PERFORM ONE 1-DAY AND TWO 28-DAY COMPRESSIVE STRENGTH TESTS. (USE TWO AS A SPARE TO BE BROKEN AS DIRECTED BY THE STRUCTURAL ENGINEER IF COMPRESSIVE STRENGTHS DO NOT APPEAR ADEQUATE.)
8. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AGENCY, CONCRETE DESIGN COMPRESSIVE STRENGTH, LOCATION OF CONCRETE PLACEMENT IN STRUCTURE, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH AND TYPE OF BREAK.

NON-SHRINK GROUT UNDER STEEL BASE PLATES:

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

- 1. COMPRESSIVE STRENGTH TESTS PER ASTM C109.
2. NUMBER OF TEST: ONE TEST FOR EACH TEN BAGS OF GROUT USED OR MINIMUM OF ONE TEST FOR EACH DAY OF GROUTING.
3. CUBE SIZE: 2-INCH X 2-INCH.
4. TEST SCHEDULE: ONE CUBE AT 3 DAYS, TWO CUBES AT 1 DAYS, 3 CUBES AT 28 DAYS.

STRUCTURAL STEEL:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

- 1. SUBMIT CERTIFICATION THAT THE FABRICATOR IS REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM REQUIRED WORK WITHOUT SPECIAL INSPECTIONS.
2. IF FABRICATOR IS NOT REGISTERED AND APPROVED, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION AND CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.
3. SUBMIT CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.
4. SUBMIT MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR HIGH-STRENGTH BOLTING AND WELD FILLER MATERIALS.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

- 1. INSPECTION OF STEEL FRAMING TO VERIFY COMPLIANCE WITH DETAILS SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS AND SHOP DRAWINGS INCLUDING MEMBER LOCATIONS, BRACING, CONNECTION DETAILS, ETC.
2. PROVIDE CONTINUOUS INSPECTION TO VERIFY COMPLIANCE OF THE FOLLOWING:
A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. ULTRASONICALLY INSPECT 100% OF THE COMPLETE PENETRATION WELDS.
B. MULTI-PASS FILLET WELDS AND SINGLE-PASS FILLET WELDS GREATER THAN 5/16".
C. SLIP CRITICAL BOLTED CONNECTIONS.
3. PROVIDE PERIODIC INSPECTION TO VERIFY COMPLIANCE OF THE FOLLOWING:
A. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS.
B. MATERIAL VERIFICATION OF WELD FILLER MATERIAL.
C. VERIFICATION OF ANCHOR ROD SIZE, CONFIGURATION, AND EMBEDMENT PRIOR TO PLACEMENT OF CONCRETE.
D. VISUALLY INSPECT ALL BOLTED CONNECTIONS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. PRIOR TO VISUAL AND PHYSICAL TESTING, TENSION TESTING USING A CALIBRATION DEVICE (KIDPORS-JULIHELM) MUST INDICATE TENSIONS AT LEAST 5% IN EXCESS OF THE AISC MINIMUM. STRUCTURAL STEEL ERECTOR SHALL SUPPLY THE TENSION CALIBRATION DEVICE. TEST A MINIMUM OF 10% OF THE BOLTED CONNECTIONS.
E. VISUALLY INSPECT ALL FIELD-WELDED CONNECTIONS. VISUAL INSPECTION OF WELDED JOINTS INCLUDES PERIODIC EXAMINATION OF FITUP.
F. VERIFY STUD SHEAR CONNECTORS SPACING AND LOCATION. VISUALLY INSPECT WELDING OF STUD SHEAR CONNECTORS.
4. WELD INSPECTIONS TO INCLUDE THE FOLLOWING:
A. WELD INSPECTIONS SHALL BE IN ACCORDANCE WITH AWS D11.
B. REVIEW AND VERIFY COMPLIANCE OF WRITTEN WELDING PROCEDURES WITH AWS REQUIREMENTS.
C. VERIFY THAT WELDING PROCEDURES ARE BEING ADHERED TO DURING FIELD WELDING.
D. VERIFY WELDER QUALIFICATIONS.
E. USE ALL MEANS NECESSARY TO DETERMINE THE QUALITY OF WELDS. THE INSPECTOR MAY USE GAMMA RAY, MAGNIFLUX, TREPANNING, SONICS OR ANY OTHER AID TO VISUAL INSPECTION THAT THE SPECIAL INSPECTOR MAY DEEM NECESSARY TO BE ASSURED OF THE ADEQUACY OF THE WELDING. KEEP A SYSTEMATIC RECORD OF ALL WELDS THAT INCLUDES, IN ADDITION TO OTHER REQUIRED RECORDS, THE IDENTIFICATION MARKS OF WELDERS, A LIST OF DEFECTIVE WELDS, AND THE MANNER OF CORRECTING DEFECTS.

STEEL DECK:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

- 1. SUBMIT MILL CERTIFICATION THAT THE SUPPLIED STEEL COMPLIES WITH THE SPECIFICATIONS.

SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS OF THE FOLLOWING:

- 1. VERIFY DECK PROFILE, THICKNESS, GENERAL ALIGNMENT AND DECK LAP.
2. VERIFY WELDS OR SCREWS FOR SIZE AND PATTERN.
3. VERIFY SPACINGS AND TYPE OF BELAP ATTACHMENTS.
4. VERIFY INSTALLATION OF DECK CLOSURES.

STRUCTURAL MASONRY (LEVEL 2):

CONTRACTOR SHALL PERFORM THE FOLLOWING:

- 1. SUBMIT MANUFACTURER'S DATA FOR TENSILE AND COMPRESSIVE SPLICES.
2. SUBMIT A CERTIFICATION FROM EACH MANUFACTURER OR SUPPLIER STATING THAT MATERIALS MEET THE REQUIREMENTS OF THE SPECIFIED ASTM AND ACI STANDARDS.
3. SUBMIT CERTIFICATION THAT THE READY-MIXED CONCRETE PLANT COMPLIES WITH THE REQUIREMENTS OF THE NATIONAL READY MIX CONCRETE ASSOCIATION.

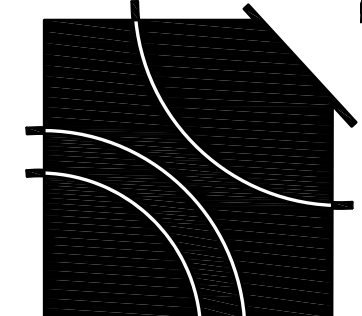
SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTION TO VERIFY THE FOLLOWING:

- 1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:
A. PROPORTIONS OF SITE-PREPARED MORTAR AND PRESTRESSING GROUT.
B. CONSTRUCTION OF MORTAR JOINTS.
C. LOCATION OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORS.
2. THE INSPECTION PROGRAM SHALL VERIFY:
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.
B. SPECIFIED SIZE, GRADE, AND TYPE OF REINFORCEMENT.
C. PLACEMENT OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES FAHRENHEIT) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES FAHRENHEIT).
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:
A. CLEANLINESS OF GROUT SPACE.
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.
C. PROPORTIONS OF SITE-PREPARED GROUT.
D. CONSTRUCTION OF MORTAR JOINTS.
4. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.

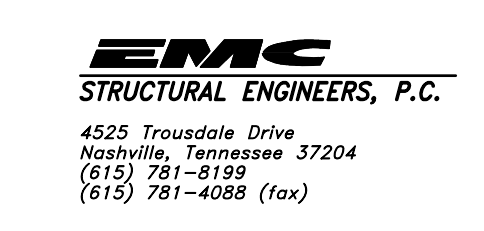
SPECIAL INSPECTOR SHALL PERFORM CONTINUOUS INSPECTIONS TO VERIFY THE FOLLOWING:

- 1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:
A. GROUT SPACE PRIOR TO GROUTING.
2. THE INSPECTION PROGRAM SHALL VERIFY:
A. WELDING OF REBAR.
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.
C. APPLICATION AND MEASUREMENT OF PRESTRESS FORCE.
3. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.
4. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, AND/OR FRISHS SHALL BE OBSERVED.

DEJA



A Replacement Facility for Wrangell Medical Center Wrangell, Alaska



PROJECT NUMBER 10528.00 DATE March 28, 2012

S4.2

QUALITY ASSURANCE PLAN