



**A STRUCTURAL GENERAL NOTES**

1 THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS. REFER TO PROCESS EQUIPMENT, ARCHITECTURAL, CIVIL, MECHANICAL, HVAC, PLUMBING, ELECTRICAL, INDUSTRIAL, FIRE PROTECTION DRAWINGS FOR LOCATIONS, DIMENSIONS, AND DETAILS OF OPENINGS, SLEEVES, EMBEDMENTS, AND EQUIPMENT INSERTS, PADS, CURBS, DEPRESSIONS, ANCHOR BOLTS, EXTERIOR GRADING AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.

2 CODES AND STANDARDS  
 - REFER TO FORM 816 ARTICLE 1.20-1.02.13 FOR APPLICABLE CODES  
 - "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7-02  
 - "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", AMERICAN CONCRETE INSTITUTE, ACI 318-02  
 - "MANUAL OF STEEL CONSTRUCTION" - AMERICAN INSTITUTE OF STEEL CONSTRUCTION, 13TH EDITION - LRFD (LOAD AND RESISTANCE FACTOR DESIGN) METHOD  
 - "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 360-05  
 - "STRUCTURAL WELDING CODE - STEEL" - AMERICAN WELDING SOCIETY, AWS D1.1-04  
 - CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL, 2003 ED., REV. 3/09

3 STRUCTURAL REQUIREMENTS TO ACCOMMODATE FIXED EQUIPMENT, INCLUDING BUT NOT LIMITED TO ROOF TOP UNITS, MONO-RAIL CRANE, VEHICLE LIFTS AND EQUIPMENT PIT DIMENSIONS AND EMBEDMENTS, ARE INCIDENTAL TO THE REQUIREMENTS OF A SPECIFIC EQUIPMENT MANUFACTURER. ALL WORK SHALL CONFORM TO APPROVED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS AND INSTALLATION INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL ANY REQUIRED MODIFICATIONS TO ACCOMMODATE APPROVED EQUIPMENT DRAWINGS. SUCH MODIFICATIONS SHALL BE MADE AT NO COST TO THE OWNER.

4 ALL SECTIONS DETAILS, NOTES, DIMENSION AND CONDITIONS ARE APPLICABLE AT ANY OTHER LOCATION WHERE CONDITIONS AND DETAILS ARE SIMILAR BUT ARE NOT SPECIFICALLY NOTED AS SUCH OR ARE NOT SHOWN.

5 DESIGN GROUNDWATER ELEVATION = 130'-0"

6 THE BUILDING IS DESIGNED TO ACT AS A STRUCTURAL UNIT UPON COMPLETION. THE CONTRACTOR SHALL DESIGN AND PROVIDE ALL REQUIRED SHORING AND TEMPORARY BRACING TO RESIST FORCES ON THE STRUCTURES THROUGHOUT THE CONSTRUCTION PERIOD.

7 TEMPORARY BRACING, SHEETING, SHORING AND OTHER SIMILAR SAFETY PRECAUTIONARY MEASURES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT HIRED BY THE CONTRACTOR.

**B GENERAL DESIGN LOADS**

1 REPAIR FACILITY

(A) OCCUPANCY CATEGORY IV.

(B) DEAD LOADS  
 WEIGHT OF BUILDING COMPONENTS NOTED ON THE DRAWINGS.

(C) LIVE LOADS  
 UNIFORM LOADS  
 SIDEWALKS, VEHICULAR DRIVEWAYS.....250 PSF  
 STAIRS, WALKWAYS.....100 PSF  
 CORRIDORS.....100 PSF  
 OFFICES.....50 PSF  
 LOBBIES, STAIRS, EXIT.....100 PSF  
 STORAGE - HEAVY.....250 PSF  
 MECHANICAL ROOM.....150 PSF  
 HS20 TRUCK LOADING PER AASHTO STANDARD SPECIFICATION 2010

(D) SNOW LOADS  
 (1) GROUND SNOW LOAD (PG).....30 PSF  
 (2) FLAT ROOF SNOW LOAD (PF).....30 PSF  
 (3) EXPOSURE FACTOR (CE).....1.0  
 (4) IMPORTANCE FACTOR (I).....1.2  
 (5) THERMAL FACTOR (CT).....1.1

(E) WIND LOADS  
 (1) BASIC WIND SPEED (V).....V=100 MPH  
 (2) EXPOSURE CATEGORY.....C  
 (3) IMPORTANCE FACTOR (I/W).....1.15

(F) EARTHQUAKE LOADS  
 (1) OCCUPANCY SEISMIC IMPORTANCE FACTOR (I/E).....1.5  
 (2) MAPPED SPECTRAL RESPONSE ACCELERATIONS (S/S, S/1).....0.239, 0.063  
 (3) SITE CLASS.....D  
 (4) SITE COEFFICIENT FOR SHORT-PERIOD MAPPED SPECTRAL RESPONSE ACCELERATION (F/A).....1.6  
 (5) SITE COEFFICIENT FOR 1-SECOND MAPPED SPECTRAL RESPONSE ACCELERATION (F/V).....2.4  
 (6) SPECTRAL RESPONSE COEFFICIENTS (SDS, S/D1).....0.255, 0.101  
 (7) SEISMIC DESIGN CATEGORY.....C  
 (8) SEISMIC USE GROUP.....III

**B GENERAL DESIGN LOADS (CONT.)**

2 COLD STORAGE

(A) OCCUPANCY CATEGORY II.

(B) DEAD LOADS  
 (1) WEIGHT OF BUILDING COMPONENTS

(C) LIVE LOADS  
 UNIFORM LOADS  
 SIDEWALKS, VEHICULAR DRIVEWAYS.....250 PSF  
 STORAGE - HEAVY.....250 PSF  
 HS20 TRUCK LOADING PER AASHTO STANDARD SPECIFICATION 2010

(D) SNOW LOADS  
 (1) GROUND SNOW LOAD (PG).....30 PSF  
 (2) FLAT ROOF SNOW LOAD (PF).....30 PSF  
 (3) EXPOSURE FACTOR (CE).....1.0  
 (4) IMPORTANCE FACTOR (I).....1.0  
 (5) THERMAL FACTOR (CT).....1.2

(E) WIND LOADS  
 (1) BASIC WIND SPEED (V).....V=100 MPH  
 (2) EXPOSURE CATEGORY.....C  
 (3) IMPORTANCE FACTOR (I/W).....1.00

(F) EARTHQUAKE LOADS  
 (1) OCCUPANCY SEISMIC IMPORTANCE FACTOR (I/E).....1.0  
 (2) MAPPED SPECTRAL RESPONSE ACCELERATIONS (S/S, S/1).....0.239, 0.063  
 (3) SITE CLASS.....D  
 (4) SITE COEFFICIENT FOR SHORT-PERIOD MAPPED SPECTRAL RESPONSE ACCELERATION (F/A).....1.6  
 (5) SITE COEFFICIENT FOR 1-SECOND MAPPED SPECTRAL RESPONSE ACCELERATION (F/V).....2.4  
 (6) SPECTRAL RESPONSE COEFFICIENTS (SDS, S/D1).....0.255, 0.101  
 (7) SEISMIC DESIGN CATEGORY.....B  
 (8) SEISMIC USE GROUP.....I

**C FOUNDATIONS**

1 THE FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION AND DESIGN RECOMMENDATIONS AS PREPARED BY CONNECTICUT DEPARTMENT OF TRANSPORTATION, DATED NOVEMBER 22, 2013.

2 PRIMARY FOUNDATIONS FOR THE REPAIR FACILITY AND COLD STORAGE BUILDINGS CONSIST OF SPREAD FOOTINGS AT THE INDICATED ELEVATIONS.

3 NO RESPONSIBILITY IS ASSUMED BY THE ENGINEER FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED IN THE DRAWINGS, SPECIFICATIONS, TEST BORINGS OR TEST PITS. THESE DATA ARE INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND REPRESENT CONDITIONS ONLY AT THESE SPECIFIC LOCATIONS AT THE PARTICULAR TIME THEY WERE MADE.

4 FOUNDATION DESIGN BASED ON NET ALLOWABLE BEARING CAPACITY OF 6.50 KSF FOR THE COLD STORAGE BUILDING. FOUNDATION DESIGN BASED ON ALLOWABLE BEARING CAPACITY OF 6.75 KSF FOR REPAIR FACILITY. IF UNSUITABLE MATERIAL IS ENCOUNTERED AT THE INDICATED ELEVATIONS OF FOUNDATIONS REMOVE AND REPLACE THE UNSUITABLE MATERIAL AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH EARTHWORK SPECIFICATION.

5 FOUNDATION UNITS SHALL BE CENTERED UNDER SUPPORTED STRUCTURAL MEMBERS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

6 EXTERIOR CONSTRUCTION SHALL BE CARRIED DOWN BELOW FINISHED EXTERIOR GRADE TO A MINIMUM DEPTH OF 4 FEET, UNLESS OTHERWISE NOTED.

7 THE CONTRACTOR SHALL DESIGN AND PROVIDE ALL TEMPORARY EARTH SUPPORT, SHORING, BRACING, AND DEWATERING AND SHALL PROTECT ALL WORK AGAINST INSTABILITY AND OVERLOAD DURING CONSTRUCTION, INCLUDING HYDROSTATIC UPLIFT DUE TO GROUND WATER AND/OR UNDERPINNING IN ORDER TO PROTECT EXISTING STRUCTURES AND UTILITIES FROM EXCESSIVE MOVEMENTS DURING THE CONSTRUCTION PERIOD.

8 CARRY OUT CONTINUOUS CONTROL OF SURFACE AND SUBSURFACE WATER DURING CONSTRUCTION SUCH THAT FOUNDATION WORK IS DONE IN THE DRY AND ON UNDISTURBED SUBGRADE MATERIAL. NO FOUNDATION CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN SUBGRADE MATERIAL.

9 FOR ADDITIONAL INFORMATION AND REQUIREMENTS, REFER TO EARTHWORK SPECIFICATIONS AND TYPICAL SUBGRADE PREPARATION DETAIL ON DRAWING STR-005.

10 THE CONTRACTOR SHALL PLACE BACKFILL UNIFORMLY AROUND STRUCTURES TO PREVENT TEMPORARY UNBALANCED LOADING UNLESS OTHERWISE NOTED ON THE DRAWINGS. BELOW GRADE TANK, VAULT, AND BASEMENT CONCRETE TO REACH 28 DAY DESIGN STRENGTH PRIOR TO BACKFILLING.

**D CAST-IN-PLACE CONCRETE**

1 UNLESS OTHERWISE NOTED, CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A SPECIFIED MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:  
 - ALL CONCRETE WORK U.N.O. SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 4000 PSI  
 - SPREAD FOOTINGS, FOUNDATION WALLS..... 4,000 PSI  
 - SLABS-ON-GRADE..... 4,000 PSI  
 - CONCRETE ON STEEL DECK..... 4,000 PSI  
 - FILL CONCRETE, HOUSEKEEPING PADS..... 4,000 PSI

2 FOR FOUNDATION WALLS, CONSTRUCTION JOINTS SHALL HAVE A MAXIMUM SPACING OF 50'-0" AND SHALL BE LOCATED MIDSPAN BETWEEN FOUNDATION PIERS AND 25-FEET FROM ANY CORNER. FOR SLAB ON GRADE, REFER TO THE DRAWINGS FOR CONSTRUCTION AND CONTROL JOINT LOCATIONS. SUBMIT CONCRETE PLACEMENT SEQUENCE AND PROPOSED JOINT LOCATIONS TO THE ENGINEER FOR APPROVAL.

3 A MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE PLACEMENTS.

4 CONCRETE SLABS, INCLUDING CONCRETE PLACED ON STEEL DECK, SHALL BE PLACED SO THAT THE SLAB THICKNESS IS AT NO POINT LESS THAN THAT INDICATED ON THE DRAWINGS.

5 PROVIDE 3/4" x 3/4" CHAMFER ON ALL EXPOSED VERTICAL AND HORIZONTAL OUTSIDE CORNERS UNLESS OTHERWISE NOTED.

6 PROVIDE VAPOR BARRIER UNDER COLD STORAGE BUILDING FLOOR SLABS ON GRADE. REFER TO ENVIRONMENTAL DRAWINGS FOR UNDERSLAB VENTING SYSTEM REQUIREMENTS WITHIN THE REPAIR FACILITY.

7 CONCRETE SURFACES NOTED TO BE ROUGHENED SHALL BE ROUGHENED TO A 1/4" AMPLITUDE.

8 NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE.

9 SIZE AND LOCATION OF EQUIPMENT PADS AND ANCHOR BOLTS SHALL BE AS REQUIRED BY THE EQUIPMENT MANUFACTURER.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:04:46 PM	DESIGNER/DRAFTER: <b>CPS/ JFC</b> CHECKED BY: <b>EVD</b> SCALE: 12" = 1'-0"	 <b>STATE OF CONNECTICUT</b> DEPARTMENT OF TRANSPORTATION Filename: C:\Revit 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b> DRAWING TITLE: <b>GENERAL NOTES I</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-002</b> SHEET NO. <b>07.02</b>
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**E CAST IN PLACE CONCRETE REINFORCEMENT**

1 REINFORCEMENT WORK OF DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO "ACI DETAILING MANUAL" – SP-66, "CRSI MANUAL OF STANDARD PRACTICE", AND "STRUCTURAL WELDING CODE – REINFORCING STEEL" – AWS D1.4.

2 STEEL REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE FOLLOWING:  
 (A) BARS, TIES, AND STIRRUPS.....ASTM A615 GRADE 60  
 (B) WELDED WIRE FABRIC.....ASTM A185 FLAT SHEETS  
 (C) BARS DETAILED WITH WELDED CONNECTIONS..... ASTM A706

3 REINFORCING STEEL SHALL GENERALLY BE UNCOATED AND DEFORMED UNLESS NOTED OTHERWISE.

4 MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:  
 (A) SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH.....3.0"  
 (B) FORMED SURFACES BACKFILLED WITH EARTH OR EXPOSED TO WEATHER..... 1 1/2" FOR #5 BARS AND SMALLER 2" FOR LARGER BARS  
 (C) SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER.....[1.5" UNLESS NOTED OTHERWISE]

5 REINFORCING STEEL SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS, CORNERS, AND INTERSECTIONS UNLESS OTHERWISE NOTED. REINFORCING STEEL SHALL NOT BE CONTINUOUS THROUGH SLAB ON GRADE CONTROL JOINTS. REINFORCING SHALL BE LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS WITH ACI STANDARD HOOKS, UNLESS OTHERWISE NOTED.

STANDARD HOOKS SHALL COMPLY WITH ACI 318 REQUIREMENTS FOR DEVELOPMENT OF STANDARD HOOKS IN TENSION. REFER TO TYPICAL DETAILS.

ALL CONCRETE SLABS, PROVIDE AND INSTALL ADDITIONAL REINFORCING AS SHOWN IN DETAILS AROUND ALL OPENINGS; AT RE-ENTRANT CORNERS; AT CONSTRUCTION JOINTS; AT ISOLATION JOINTS NOT INTERSECTED BY CONTROL JOINTS; AND AT DOOR OPENINGS.

**F OPEN WEB STEEL JOISTS**

1 DESIGN OF JOISTS SHALL BE PER STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS, LOAD TABLES, AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS.

2 ALL STEEL JOISTS SHALL BE SHOP COATED WITH A PRIMER COAT AND PER PAINTING REQUIREMENTS OF SPECIFICATIONS 099123.

3 EACH JOIST SHALL BE LATERALLY BRACED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE REQUIREMENTS BEFORE NEXT JOIST IS ERECTED AND BEFORE ANY LIVE LOADS ARE APPLIED.

4 COMPLY WITH OSHA SAFETY AND HEALTH STANDARDS FOR THE CONSTRUCTION INDUSTRY: 29 CFR PART 1926 SUBPART R – SAFETY STANDARDS FOR STEEL ERECTION.

5 REFER TO DRAWING STR-014 FOR NET WIND UPLIFT LOADS.

**G STRUCTURAL STEEL**

1 DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC "STEEL CONSTRUCTION MANUAL", 13TH EDITION, AND 29 CFR PART 1926 SUBPART R – "SAFETY STANDARDS FOR STEEL ERECTION".

2 STRUCTURAL STEEL SHALL BE NEW STEEL CONFORMING TO THE FOLLOWING:  
 (A) STRUCTURAL W AND WT SHAPES..... ASTM A992  
 (B) PLATES, BARS, ANGLES, AND CHANNELS.....ASTM A36, UNO  
 (C) STRUCTURAL TUBING.....ASTM A500 GR B  
 (D) BASE PLATES.....ASTM A36  
 (E) HIGH STRENGTH BOLTS.....ASTM A325  
 (F) CARBON STEEL PIPE.....ASTM A53 GR B  
 (G) ANCHOR BOLTS AND RODS.....ASTM F1554 GR 36 HOT DIPPED GALVANIZED, U.N.O.  
 (H) WELDING ELECTRODE..... E70XX UNO  
 (I) SHEAR CONNECTORS SHALL CONFORM TO ASTM A108

3 ANCHOR RODS, ANCHOR BOLTS, LEVELING PLATES, OR BEARING PLATES SHALL BE LOCATED AND BUILT INTO CONNECTING WORK, PRESET BY TEMPLATES OR SIMILAR METHODS. PLATES SHALL BE SET IN FULL BEDS OF NON-SHRINK GROUT.

HIGH STRENGTH BOLTED CONNECTIONS SHALL BE AS FOLLOWS:  
 A. MINIMUM BOLT DIAMETER - 3/4"  
 B. SHEAR CONNECTIONS FOR MOMENT CONNECTED MEMBERS - SLIP CRITICAL TYPE HIGH STRENGTH BOLTS. CLASS A FAYING SURFACE  
 C. SHEAR CONNECTIONS FOR OTHER MEMBERS - PRETENSIONED TYPE HIGH STRENGTH BOLTS, UNLESS NOTED OTHERWISE.  
 D. MINIMUM FACTORED CONNECTION CAPACITY SHALL BE 10 KIPS, UNLESS NOTED OTHERWISE.  
 E. MINIMUM NUMBER OF ROWS OF BOLTS FOR FRAMED BEAM CONNECTIONS. SEE CONNECTION TABLE ON STR-009.

**H CONCRETE MASONRY**

1 CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530-05/ASCE 5-05/TMS 402-05), AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530. 1-05/ASCE 6-05/TMS 602-05).

2 CONCRETE MASONRY UNITS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'm) = 2,000 PSI.

3 MORTAR SHALL BE TYPE M OR S, CONFORMING TO TYPE ASTM C270.

4 GROUT IS TO CONFORM WITH ASTM C476 AND SHALL HAVE A MINIMUM 28-DAY STRENGTH = 3,000 PSI.

5 REINFORCING STEEL SHALL BE AS FOLLOWS:  
 (A) DEFORMED BARS: ASTM A615: GRADE 60 UNCOATED.  
 (B) WELDED BARS: ASTM A706: GRADE 60 UNCOATED.  
 (C) JOINT REINFORCEMENT: ASTM A951 WITH DEFORMED LONGITUDINAL WIRES CONFORMING TO ASTM A82; HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.

6 INSTALLATION OF REINFORCEMENT SHALL BE AVAILABLE FOR INSPECTION PRIOR TO PLACING GROUT.

7 ALL VISIBLE JOINTS SHALL BE SEALED, PROVIDE BACKER ROD.

8 PROVIDE CONTROL JOINTS IN MASONRY AS SHOWN ON PLANS AND AS CALLED FOR WITHIN CONTRACT SPECIFICATIONS. WIRE JOINT REINFORCING TO BE DISCONTINUOUS AT CONTROL JOINTS; BOND BEAM REINFORCING STEEL TO RUN CONTINUOUS THROUGH CONTROL JOINTS.

9 WHERE MASONRY IS ADJACENT TO STRUCTURAL STEEL: FLEXIBLE ANCHORS, COMPRESSIBLE JOINT FILLER MATERIAL, AND JOINT SEALANT SHALL BE USED.

10 MASONRY WALLS WITH A HEIGHT GREATER THAN 12-FEET SHALL BE LATERALLY SUPPORTED AT THE TOP AS SPECIFIED ON THE STRUCTURAL DRAWINGS. ATTACHMENT TO STRUCTURE SHALL ALLOW VERTICAL MOVEMENT (DEFLECTION) OF THE STRUCTURAL FRAMING MEMBERS AND DECKING. ALL MASONRY SHALL BE APPROPRIATELY SHORED DURING CONSTRUCTION TO RESIST ALL DESIGN WIND LOADING.

11 MASONRY REINFORCEMENT SPLICES SHALL CONFORM TO ACI 530, UNLESS OTHERWISE SHOWN.

12 UNFINISHED WALLS AT THE END OF A WORKDAY SHALL BE COVERED TO PREVENT INFILTRATION OF WATER.

13 LAY ALL MASONRY UNITS IN FULL BED OF MORTAR.

14 PROVIDE LINTEL BEAMS OVER ALL MASONRY OPENINGS. REFER TO TYPICAL DETAILS AND SPECIFIC DETAILS IN THE DRAWINGS.

15 CONCRETE MASONRY UNITS SHALL COMPLY WITH ASTM C90, TWO CELL BLOCKS, HALF RUNNING BOND PATTERN, GRADE N, TYPE 1 MOISTURE CONTROLLED UNITS.

16 ALL CELLS OF MASONRY UNITS CONTAINING REINFORCING BARS AND ALL BOND BEAMS AND U-BLOCK LINTELS TO BE GROUTED SOLID.

17 LAP ALL REINFORCING BARS 48 BAR DIAMETERS MINIMUM FOR MASONRY WALL REINFORCING, UNLESS OTHERWISE NOTED.

18 WHERE BEAMS BEAR ON MASONRY WALLS, BELOW BEARING PROVIDE MINIMUM TWO COURSES DEEP GROUT FILLED MASONRY (MINIMUM LENGTH OF 1'-4", UNLESS OTHERWISE NOTED).

**I STEEL DECK**

1 DESIGN, FABRICATION, AND ERECTION OF METAL DECK SHALL CONFORM TO THE "STRUCTURAL WELDING CODE – SHEET STEEL" AWS D1.3-08 AND THE "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS – STEEL DECK INSTITUTE". PUBLISHED CAPACITIES OF COMPOSITE SLAB CONSTRUCTION SHALL BE BASED ON TESTS CONDUCTED IN ACCORDANCE WITH ANSI/ASCE 3-91, STANDARD FOR THE STRUCTURAL DESIGN OF COMPOSITE SLABS.

2 COMPOSITE STEEL DECK SHALL BE OF THE DEPTH INDICATED ON THE DRAWINGS. DECK PROFILE SHALL SATISFY THE MINIMUM SECTION PROPERTIES INDICATED ON THE DRAWINGS (SUBJECT TO APPROVAL BY THE DESIGNER). STEEL DECK SHALL BE ORIENTED AS INDICATED ON THE DRAWINGS. DECK SHALL BE LAID OUT IN A MINIMUM 3-SPAN CONDITION, UNLESS NOTED OTHERWISE.

3 STEEL ROOF DECK SHALL BE OF THE TYPE INDICATED ON THE DRAWINGS. DECK THICKNESS AND LOAD CAPACITY SHALL SATISFY THE MINIMUMS ESTABLISHED BY THE STEEL DECK INSTITUTE LOAD TABLES. STEEL ROOF DECK SHALL BE ORIENTED AS INDICATED ON THE DRAWINGS. DECK SHALL BE LAID OUT IN A MINIMUM 3-SPAN CONDITION, UNLESS NOTED OTHERWISE.

4 STEEL DECK PANELS SHALL BE FORMED STEEL SHEETS CONFORMING TO ASTM A653 SQ GRADE 33, MINIMUM WITH COATING DESIGNATION G90 HOT DIP GALVANIZED – ROOF AND G60 - COMPOSITE FLOOR DECK.

5 DECK ATTACHMENT SHALL BE BY WELDING. SPACING OF ATTACHMENTS SHALL CONFORM TO SDI SPECIFICATIONS AT A MINIMUM. SEE DRAWINGS FOR DIAPHRAGM FASTENING REQUIREMENTS. WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND SHALL CONFORM TO THE REQUIREMENTS OF THE AWS"STRUCTURAL WELDING CODE".

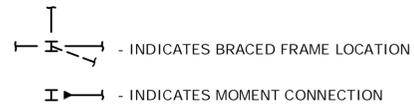
6 PROVIDE ALL ACCESSORIES INCLUDING POUR STOPS, SUMP PANS, CLOSURES, AND REINFORCEMENT AT OPENINGS TO ACCOMMODATE PROJECT CONDITIONS. ALL ACCESSORIES SHALL BE GALVANIZED TO MATCH DECK COATING DESIGNATION.

7 COMPLY WITH OSHA SAFETY AND HEALTH STANDARDS FOR THE CONSTRUCTION INDUSTRY: 29 CFR PART 1926 SUBPART R – SAFETY STANDARDS FOR STEEL ERECTION.

8 METAL DECK WITH STEEL STUDS SHALL CONFORM TO DETAILING REQUIREMENTS AISC, 16.1 PAGES 84-85 OF THE MANUAL OF STEEL CONSTRUCTION AND SECTIONS I-4 AND I-5 OF THE AISC SPECIFICATIONS.

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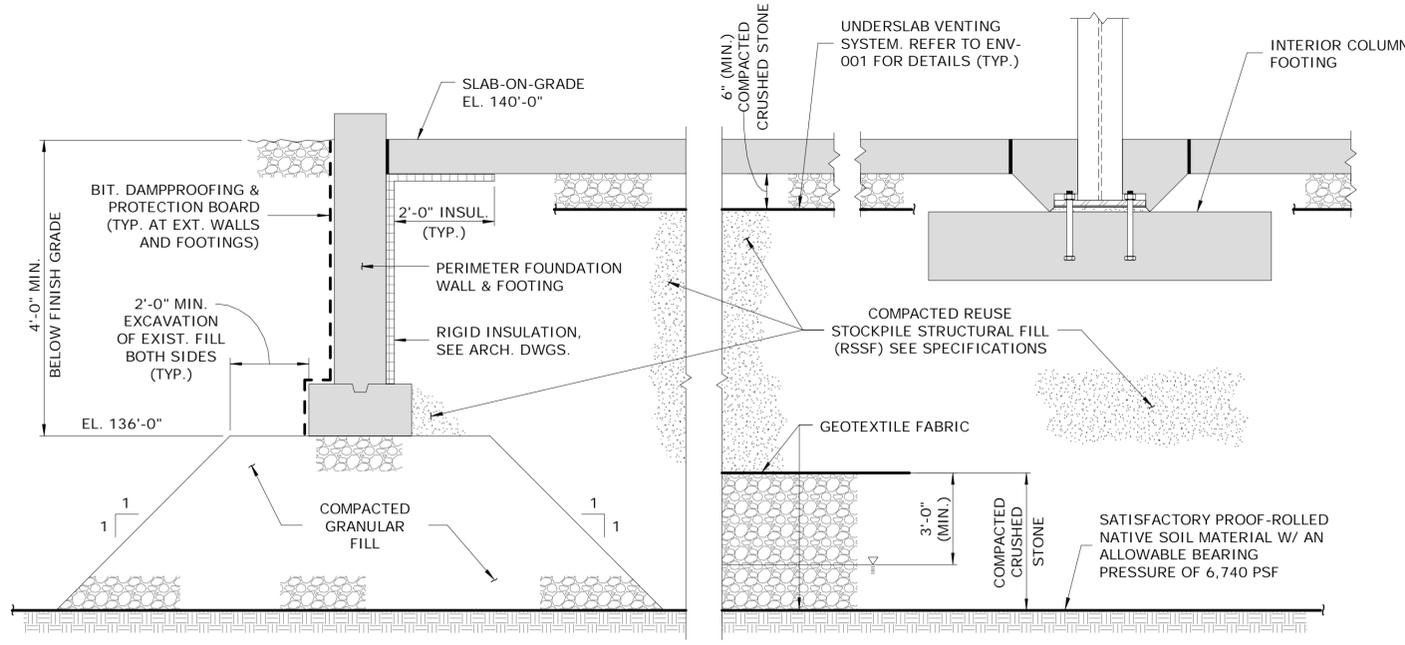
**DRAWING SYMBOL LEGEND**



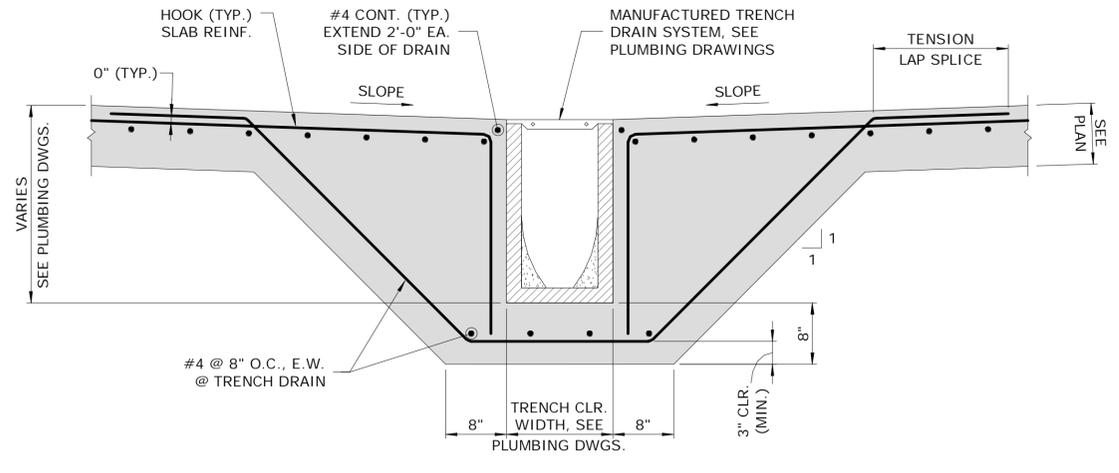
**STRUCTURAL ABBREVIATIONS**

ADD'L.	ADDITIONAL	H.S.A.	HEADED STUD ANCHORS	S.C.C.J.	SAWCUT CONTROL JOINT
A.F.F.	ABOVE FINISHED FLOOR	HGT.	HEIGHT	SECT.	SECTION
ALT.	ALTERNATE	H.P.	HIGH POINT	S.CONN.	SHEAR CONNECTOR
A.B.	ANCHOR BOLT	HSS	HOLLOW STRUCTURAL SECTIONS	SW.	SHEARWALL
&	AND	HK	HOOK(ED)	S.W.	SHORT WAY
L	ANGLE	HORIZ.	HORIZONTAL	SIM.	SIMILAR
APPROX.	APPROXIMATE (LY)	H.E.F.	HORIZONTAL EACH FACE	S.O.G.	SLAB-ON-GRADE
ARCH.	ARCHITECT(URAL)	HDG	HOT-DIP GALVANIZE	S.C.	SLIP CRITICAL
@	AT	IN	INCH(ES)	S	SOUTH
BSMT.	BASEMENT	INFO.	INFORMATION	SP(S).	SPACE(S)
B. PL.	BASE PLATE	I.D.	INSIDE DIAMETER	SPEC.	SPECIFICATION
BM.	BEAM	I.F.	INSIDE FACE	SQ.	SQUARE
BRG.	BEARING	INT.	INTERIOR	S.F.	SQUARE FOOT or FEET
BTWN.	BETWEEN	I.J.	ISOLATION JOINT	S.I.	SQUARE INCH(ES)
BLK(G).	BLOCK(ING)	INV.	INVERT	STD.	STANDARD
BD.	BOARD	JT.	JOINT	S.S.	STAINLESS STEEL
BOT.	BOTTOM	JST.	JOIST	STL.	STEEL
B.C.X.	BOTTOM CHORD EXTENSION	k	KIPS	STIFF.	STIFFENER
B.O.	BOTTOM OF	K.O.	KNOCKOUT	STRUCT.	STRUCTUR(E) (AL)
B.O.F.	BOTTOM OF FOOTING	L.B.	LAG BOLT	SYM.	SYMMETR(Y) (ICAL)
BLDG.	BUILDING	L.F.	LINEAR FOOT	TEMP.	TEMPORARY or TEMPERATURE
BRKT.	BRACKET	L.I.	LINEAR INCH	THK.	THICK(EN) (ENED) (NESS)
CAMB.	CAMBER	L.W.	LIGHTWEIGHT	THRU	THROUGH
CANT.	CANTILEVER	L.L.	LIVE LOAD	T.J.	TIE JOIST
C.I.P.	CAST-IN-PLACE	LG.	LONG	TOL.	TOLERANCE
C or CL	CENTER LINE	LLH	LONG LEG HORIZONTAL	T.C.J.	TOOLED CONTROL JOINT
CLR.	CLEAR(ANCE)	LLV	LONG LEG VERTICAL	T&B	TOP AND BOTTOM
C.F.	COLD FORMED	L.S.H.	LONG SLOTTED HORIZONTAL	T.C.X.	TOP CHORD EXTENSION
COL.	COLUMN	L.S.V.	LONG SLOTTED VERTICAL	T.O.	TOP OF
CONC.	CONCRETE	L.W.	LONG WAY	T.O.C.	TOP OF CONCRETE
CMU	CONCRETE MASONRY UNIT	L.P.	LOW POINT	T.O.S.	TOP OF STEEL
CONN.	CONNECT(ION)	MFR.	MANUFACTURE(R) (D)	T.O.W.	TOP OF WALL
CONSTR.	CONSTRUCTION	MAS.	MASONRY	TOT.	TOTAL
C.J.	CONSTRUCTION JOINT	MAX.	MAXIMUM	T	TREAD or TON
CONT.	CONTINUE or CONTINUOUS	MECH.	MECHANICAL	TYP.	TYPICAL
COORD.	COORDINATE	M.E.P.	MECHANICAL/ELECTRICAL/PLUMBING	U.N.O.	UNLESS NOTED OTHERWISE
C.Y.	CUBIC YARD	MEZZ.	MEZZANINE	V.I.F.	VERIFY IN FIELD
DP.	DEEP	MID.	MIDDLE	VERT.	VERTICAL
° or DEG.	DEGREE	M.O.	MASONRY OPENING	V.E.F.	VERTICAL EACH FACE
DEMO.	DEMOL(ISH)(ITION)	M.W.C.J.	MASONRY WALL CONTROL JOINT	W.S.C.J.	WATERSTOPPED CONSTRUCTION JOINT
DEPRESS.	DEPRESS(ED)(ION)	MTL.	METAL	WT.	WEIGHT
DIAG.	DIAGONAL	MIN.	MINIMUM	W	WEST
O or DIA.	DIMENSION	MISC.	MISCELLANEOUS	W.	WIDE
DBL.	DOUBLE	N.S.	NEAR SIDE	WF	WIDE FLANGE
DWL(S.)	DOWEL(S)	N.S.N.M.	NO SHRINK NON METALLIC	W.W.F.	WELDED WIRE FABRIC
DN.	DOWN	N	NORTH	W/	WITH
DWG.	DRAWING	N/A	NOT APPLICABLE	W/O	WITH OUT
EA.	EACH	N.I.C.	NOT IN CONTRACT	W.P.	WORKING POINT
E.E.	EACH END	N.T.S.	NOT TO SCALE		
E.F.	EACH FACE	# or NO.	NUMBER		
E.S.	EACH SIDE	O.C.	ON CENTER		
E.W.	EACH WAY	OPNG.	OPENING		
E	EAST	OPP.	OPPOSITE		
E.O.D.	EDGE OF DECK	O.H.	OPPOSITE HAND		
E.O.S.	EDGE NAILING	O.D.	OUTSIDE DIAMETER		
EL.	ELEVATION	O.F.	OUTSIDE FACE		
EMBED.	EMBEDMENT or EMBEDDED	OH.	OVERHEAD		
EQ.	EQUAL	PARA.	PARALLEL		
EQUIP.	EQUIPMENT	PART.	PARTITION		
EQUIV.	EQUIVALENT	PVMT.	PAVEMENT		
EST.	ESTIMATE	PEN.	PENETRATION		
EXIST. or (E)	EXISTING	PERIM.	PERIMETER		
EXP.	EXPANSION	PERP.	PERPENDICULAR		
E.J.	EXPANSION JOINT	Pc.	PIECE		
EXT.	EXTERIOR	P or PL.	PLATE		
FAB.	FABRICATOR or FABRICATION	±	PLUS OR MINUS		
F.O.C.	FACE OF CONCRETE	PW.	POINT		
F.O.M.	FACE OF MASONRY	PVC.	POLYVINYL CHLORIDE		
F.O.S.	FACE OF STUD	LB(S).	POUND(S)		
F.O.W.	FACE OF WALL	P.S.F.	POUNDS PER SQUARE FOOT		
F.S.	FAR SIDE	P.S.I.	POUNDS PER SQUARE INCH		
FRP.	FIBER REINFORCED PLASTIC	P.A.F.	POWER ACTUATED FASTENERS		
FIN.	FINISHED	P.C.	PRECAST CONCRETE		
F.F.	FINISHED FLOOR	P.J.F.	PREFORMED JOINT FILLER		
FIN. GR.	FINISHED GRADE	P.T.	PRESSURE TREATED		
F.P.	FIRE PROOF(ING) or PROTECTION	R or RAD.	RADIUS		
FLG.	FLANGE	REF.	REFERENCE		
F.D.	FLOOR DRAIN	REINF.	REINFORCE(D) (ING)		
FT.	FOOT or FEET	REQ'MTS.	REQUIREMENTS		
FTG.	FOOTING	REQ'D.	REQUIRED		
F.S.	FOOTING STEP	RET.	RETAINING		
FNDN.	FOUNDATION	REV.	REVIS(E) (ION)		
F.W.C.J.	FOUNDATION WALL CONTROL JOINT	R.D.	ROOF DRAIN		
GALV.	GALVANIZE(D)	R.O.	ROUGH OPENING		
GA.	GAUGE, GAGE	RBL.	RUBBLE		
GEN.	GENERAL				
G.C.	GENERAL CONTRACT(OR)				
GR.	GRADE				
GRD.	GROUND				

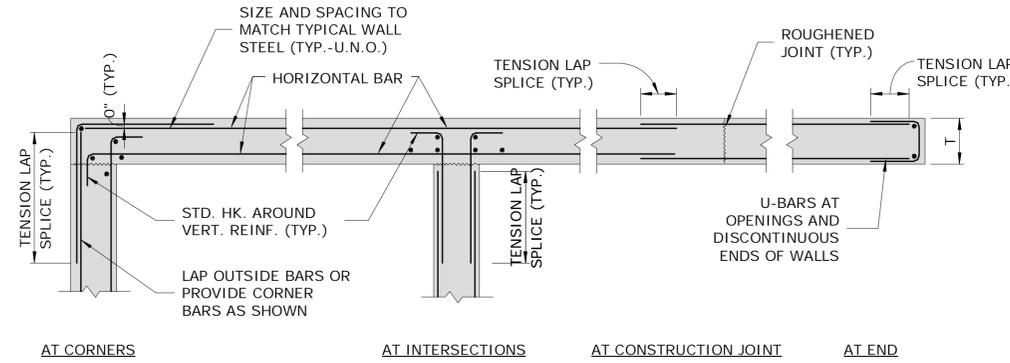
DESIGNER/DRAFTER: <b>CPS/JFC</b>	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE:  <b>REPAIR FACILITY</b>	TOWN:  <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b>
CHECKED BY: <b>EVD</b>				DRAWING TITLE: <b>ABBREVIATIONS</b>	DRAWING NO. <b>STR-004</b>
SCALE: As indicated	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	FILENAME: C:\Revit 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace			SHEET NO. <b>07.04</b>
REV. DATE REVISION DESCRIPTION SHEET NO.					



1 TYPICAL SUBGRADE PREPARATION DETAIL  
SCALE: NTS

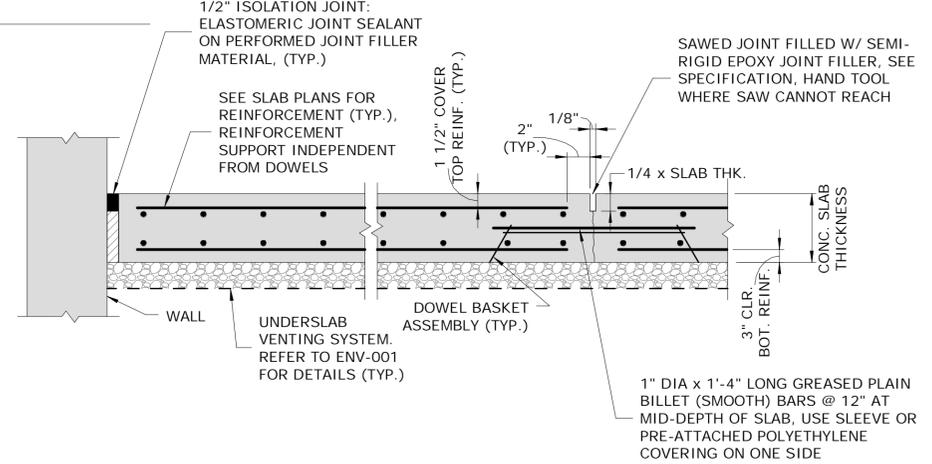


2 TYPICAL TRENCH DRAIN DETAIL  
SCALE: NTS

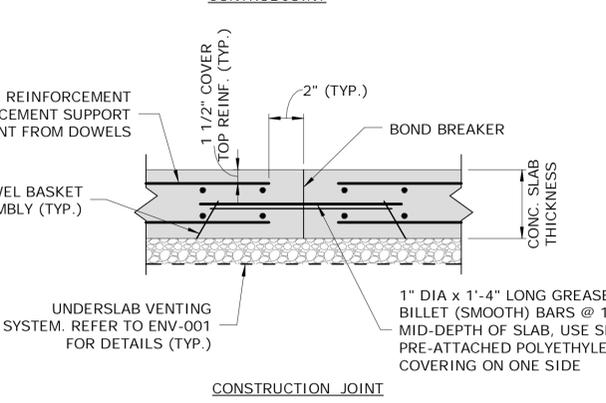


NOTE: ALL SPLICES TO BE CLASS "B" UNLESS NOTED OTHERWISE.

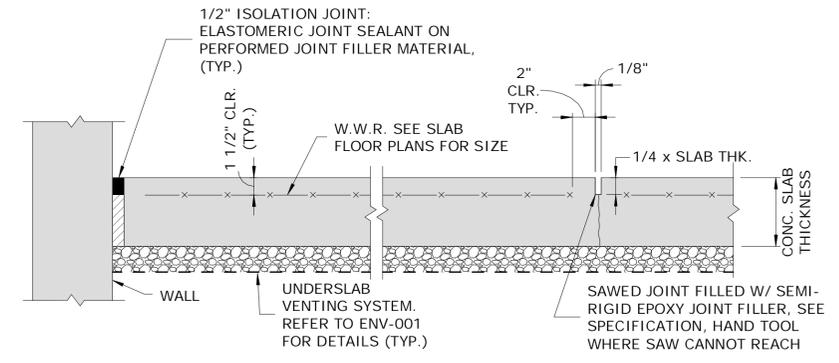
5 TYPICAL FOUNDATION WALL CONSTRUCTION JOINT AND HORIZONTAL REINFORCING DETAILS  
SCALE: NTS



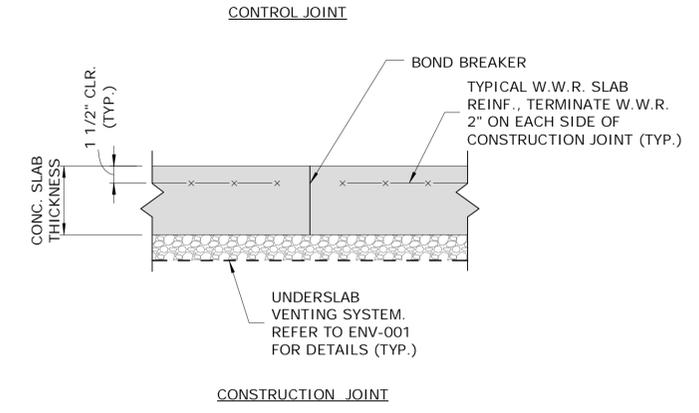
NOTE: AT CONTRACTOR'S OPTION - CONTROL JOINTS MAY BE FORMED OR SAWED. JOINTS SHALL BE SAWCUT WITHIN 8 HOURS AFTER CONCRETE HAS BEEN PLACED.



7 TYPICAL 8" & 12" SLAB-ON-GRADE JOINT DETAILS  
SCALE: NTS



NOTE: AT CONTRACTOR'S OPTION - CONTROL JOINTS MAY BE FORMED OR SAWED. JOINTS SHALL BE SAWCUT WITHIN 8 HOURS AFTER CONCRETE HAS BEEN PLACED.



8 TYPICAL 6" SLAB-ON-GRADE JOINT DETAILS  
SCALE: NTS

6 TYPICAL DETAIL OF TRANSITION BETWEEN WALL FOOTINGS & COLUMN FOOTING  
SCALE: NTS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER: CPS/JFC  
 CHECKED BY: EVD  
 SCALE: As indicated

STATE OF CONNECTICUT  
 DEPARTMENT OF TRANSPORTATION

Signature/Block: [Signature]

PROJECT TITLE: REPAIR FACILITY

TOWN: ROCKY HILL

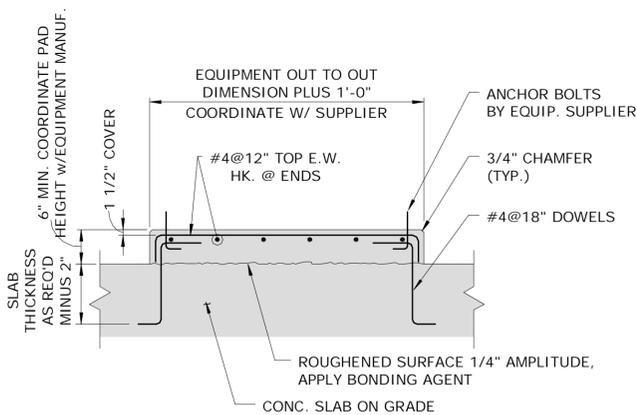
DRAWING TITLE: TYPICAL DETAILS I

PROJECT NO. 118-167  
 DRAWING NO. STR-005  
 SHEET NO. 07.05

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

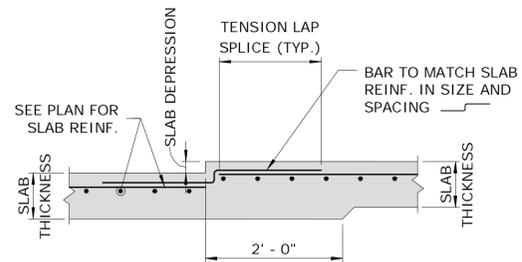
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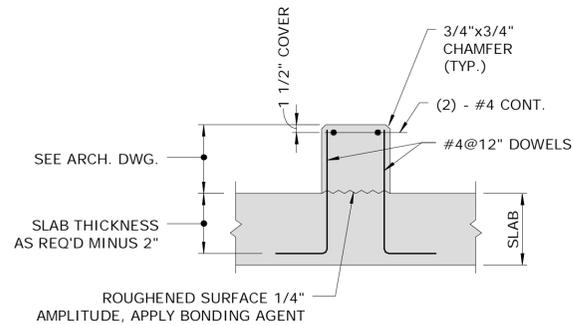


NOTE: COORDINATE PAD SIZE WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS.

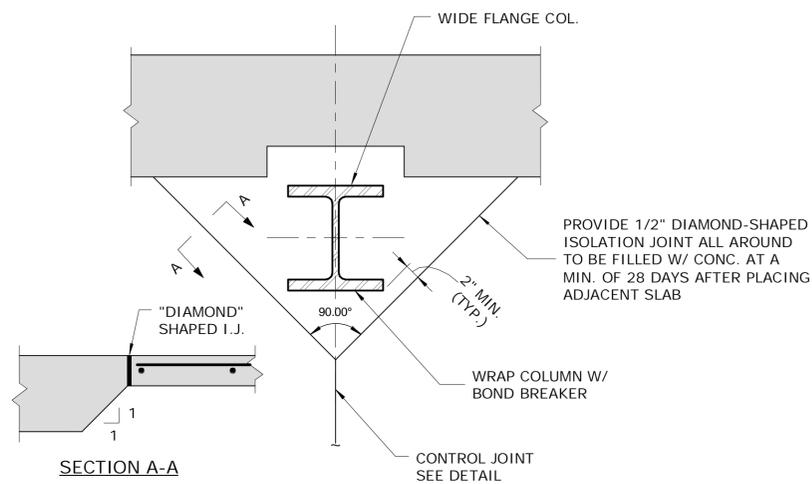
1 TYPICAL INTERIOR CONCRETE PAD DETAIL  
SCALE: NTS



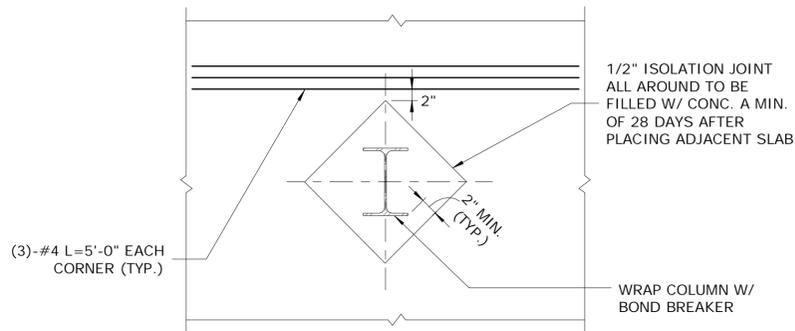
2 TYPICAL SLAB DEPRESSION DETAIL  
SCALE: NTS



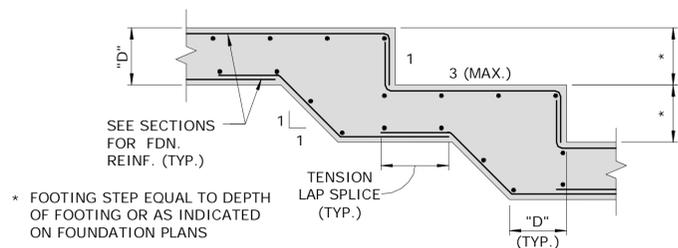
NOTE: SEE MECH., ELEC., PLUMBING AND ARCH. DWGS. FOR LOCATIONS.  
3 TYPICAL INTERIOR CONCRETE CURB DETAIL  
SCALE: NTS



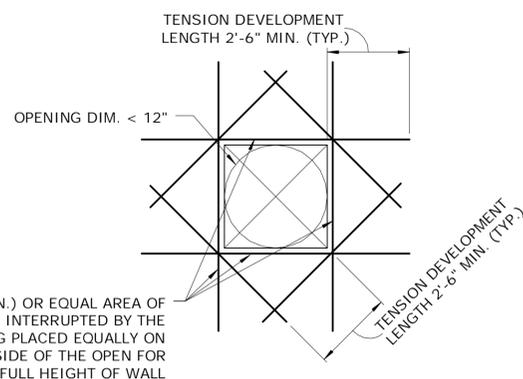
4 TYPICAL SLAB-ON-GRADE ISOLATION JOINT DETAIL AT PERIMETER STEEL COLUMN  
SCALE: 1" = 1'-0"



5 TYPICAL SLAB-ON-GRADE ISOLATION JOINT DETAIL AT INTERIOR STEEL COLUMN  
SCALE: NTS



7 TYPICAL FOUNDATION WALL STEP FOOTING DETAIL  
SCALE: 1 1/2" = 1'-0"



6 TYPICAL FOUNDATION WALL OPENING DETAIL  
SCALE: NTS

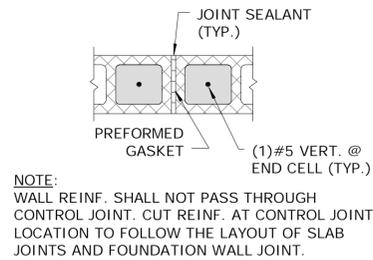
		TENSION LAP SPLICE LENGTHS - GRADE 60 UNCOATED BARS											
		f <sub>c</sub> = 3,000 psi or GREATER, NORMAL WEIGHT CONCRETE											
BAR SIZE DESIGNATION	LAP CLASS	f <sub>c</sub> = 3,000 psi				f <sub>c</sub> = 4,000 psi				f <sub>c</sub> = 5,000 psi			
		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	A	22	32	17	25	19	28	15	22	17	25	13	19
	B	28	42	22	32	24	36	19	28	22	33	17	25
#4	A	29	43	22	33	25	37	19	29	22	33	17	26
	B	37	56	29	43	32	48	25	37	29	43	22	33
#5	A	36	54	28	41	31	47	24	36	28	42	22	32
	B	47	70	36	54	40	60	31	47	36	54	28	42
#6	A	43	64	33	50	37	56	29	43	33	50	26	38
	B	56	84	43	64	48	72	37	56	43	65	33	50
#7	A	63	94	48	72	54	81	42	63	49	73	37	56
	B	81	122	63	94	70	106	54	81	63	94	49	73
#8	A	72	107	55	82	62	93	48	72	55	83	43	64
	B	93	139	72	107	80	121	62	93	72	108	55	83
#9	A	81	121	62	93	70	105	54	81	63	94	48	72
	B	105	157	81	121	91	136	70	105	81	122	63	94
#10	A	91	136	70	105	79	118	61	91	70	105	54	81
	B	118	177	91	136	102	153	79	118	91	137	70	105
#11	A	101	151	78	116	87	131	67	101	78	117	60	90
	B	131	196	101	151	113	170	87	131	101	152	78	117
#14	N/A	121	181	93	139	105	157	81	121	94	140	72	108
#18	N/A	161	241	124	186	139	209	107	161	125	187	96	144

NOTES:

- TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE.
- TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS ARE BASED ON ACI 318-02, SECTION 12.2.2 AND 12.15, RESPECTIVELY. TABULATED VALUES FOR BEAMS OR COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND CONCRETE COVER MEETING MINIMUM CODE REQUIREMENTS. LENGTHS ARE IN INCHES.
- CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CENTER-TO-CENTER SPACING OF THE BARS, ARE DEFINED AS:

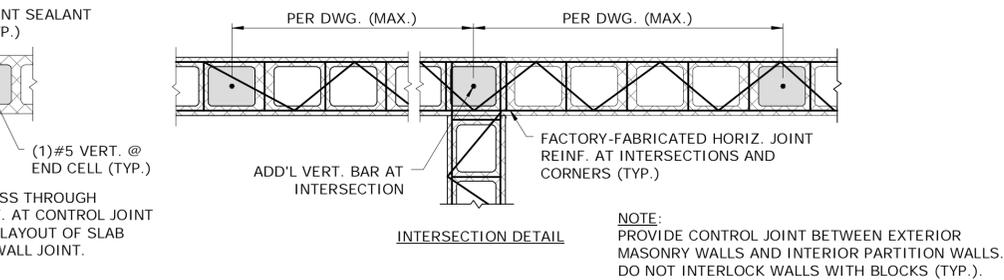
BEAMS or COLUMNS	CASE 1	COVER AT LEAST 1d <sub>b</sub> AND CTR.-CTR. SPACING AT LEAST 2d <sub>b</sub>
	CASE 2	COVER LESS THAN 1d <sub>b</sub> AND CTR.-CTR. SPACING LESS THAN 2d <sub>b</sub>
ALL OTHERS	CASE 1	COVER AT LEAST 1d <sub>b</sub> AND CTR.-CTR. SPACING AT LEAST 3d <sub>b</sub>
	CASE 2	COVER LESS THAN 1d <sub>b</sub> AND CTR.-CTR. SPACING LESS THAN 3d <sub>b</sub>
- LAP CLASS A VALUES ARE THE REQUIRED TENSION DEVELOPMENT LENGTHS, L<sub>d</sub>; LAP SPLICE LENGTHS ARE MULTIPLES OF TENSION DEVELOPMENT LENGTHS; CLASS A = 1.0L<sub>d</sub> AND CLASS B = 1.3L<sub>d</sub> (ACI 318-02, SECTION 12.15.1).
- LAP SPLICES OF #14 or #18 BARS ARE NOT PERMITTED. THE TABULATED VALUES FOR THOSE BAR SIZES ARE THE TENSION DEVELOPMENT LENGTHS.
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
- FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3; OR WHEN f<sub>ca</sub> IS SPECIFIED, THE FACTOR IS 6.7 √f<sub>c</sub> / f<sub>ca</sub> ≥ 1.0.
- FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED VALUES BY ONE OF THE FOLLOWING FACTORS:

CONCRETE COVER AND SPACING	TOP BARS	OTHER BARS
COVER < 3d <sub>b</sub> OR CTR.-CTR. SPACING > 7d <sub>b</sub>	1.7 / 1.3 - 1.31	1.50
COVER ≤ 3d <sub>b</sub> OR CTR.-CTR. SPACING ≤ 7d <sub>b</sub>	1.20	1.20

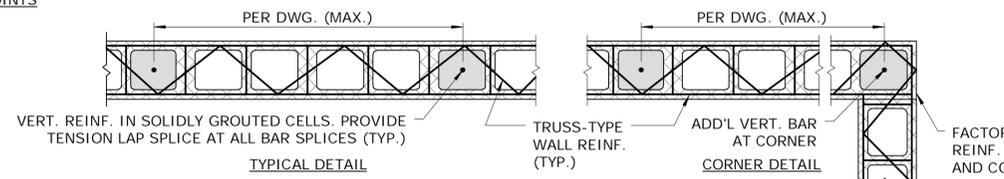


NOTE: WALL REINF. SHALL NOT PASS THROUGH CONTROL JOINT. CUT REINF. AT CONTROL JOINT LOCATION TO FOLLOW THE LAYOUT OF SLAB JOINTS AND FOUNDATION WALL JOINT.

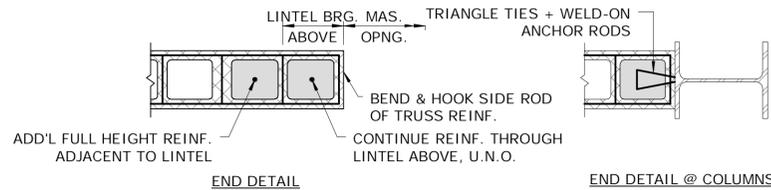
① CONTROL JOINTS



NOTE: PROVIDE CONTROL JOINT BETWEEN EXTERIOR MASONRY WALLS AND INTERIOR PARTITION WALLS. DO NOT INTERLOCK WALLS WITH BLOCKS (TYP.).



TYPICAL DETAIL



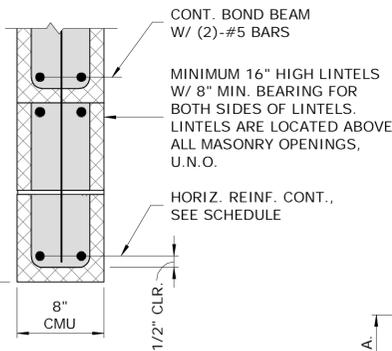
END DETAIL

END DETAIL @ COLUMNS

① TYPICAL CMU WALL REINFORCING DETAILS  
SCALE: NTS

BRICK LINTEL SCHEDULE	
MASON OPENING	ANGLE SIZE
3'-0" MAX.	L3 1/2x3 1/2x5/16
4'-0" MAX.	L4x3 1/2x5/16 LLV
6'-0" MAX.	L5x3 1/2x5/16 LLV
7'-4" MAX.	L6x3 1/2x5/16 LLV
9'-4" MAX.	L7x4x3/8 LLV

CMU LINTEL SCHEDULE	
M.O.	SIZE
UP TO 4'-0"	8" DP. U-BLOCK W/ (2) #5 CONT.
4'-0" TO 6'-0"	16" DP. BOND BEAM W/ (2) #5 CONT. BOT.
6'-1" TO 12'-0" MAX.	16" DP. BOND BEAM W/ (2) #5 CONT. T.&B.

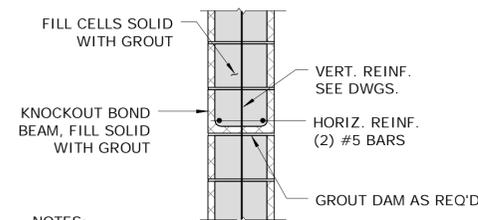


NOTES:

- ALL CMU LINTELS,  $f_m = 2,000$  psi.
- REFER TO ARCH. DRAWINGS FOR LOCATIONS OF MASONRY OPENINGS, U.N.O.
- PROVIDE TEMP. SHORING TO SUPPORT MASONRY OVER OPENINGS. SHORING TO REMAIN IN PLACE 14 DAYS MIN. (28 DAYS MIN. FOR OPENINGS > 5'-0")
- EXTEND REINF. 2'-0" MIN. EA. SIDE OF OPENING.

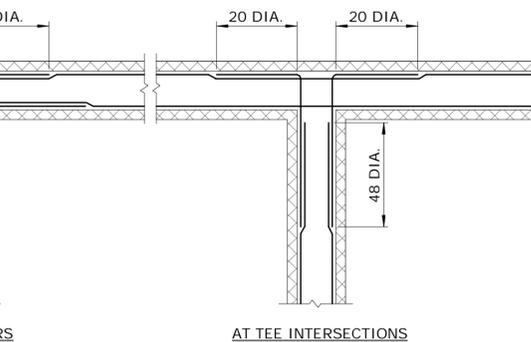
⑦ TYPICAL CMU LINTEL BEAM DETAIL  
SCALE: NTS

③ TYPICAL CMU BOND BEAM DETAIL  
SCALE: NTS



NOTES:

- SEE DRAWINGS FOR SPACING.
- PROVIDE REINFORCED BOND BEAM WITHIN 16" OF TOP OF WALL. U.N.O.



AT CORNERS

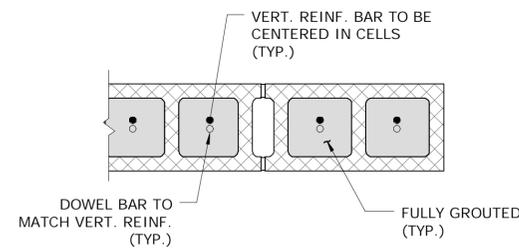
AT TEE INTERSECTIONS

NOTES:

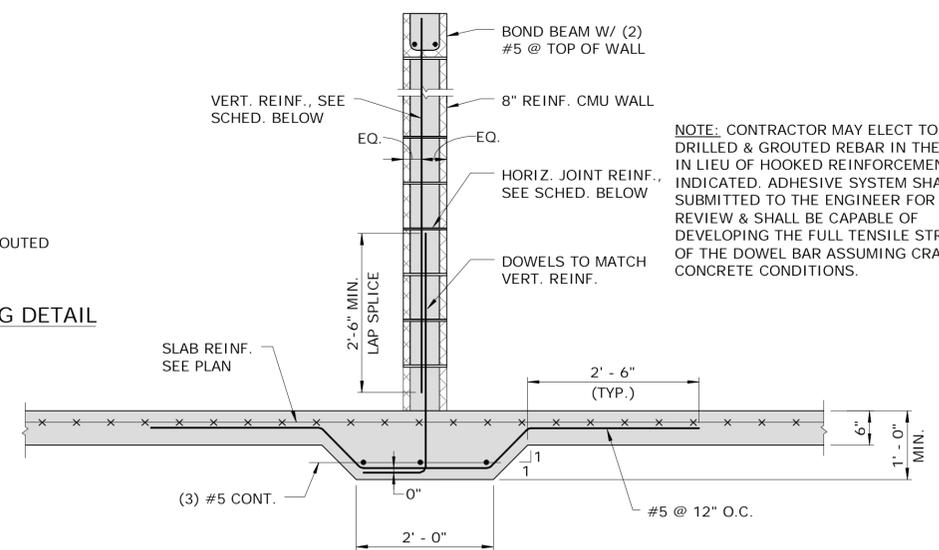
- ADDITIONAL REINFORCING IS TO MATCH SIZE AND SPACING OF TYPICAL WALL REINFORCING.
- DETAIL SIMILAR AT 6" CMU WALL. REINFORCING IN CENTER OF WALL.

⑧ TYPICAL PLAN DETAILS OF CORNER BARS IN CONCRETE MASONRY WALL  
SCALE: NTS

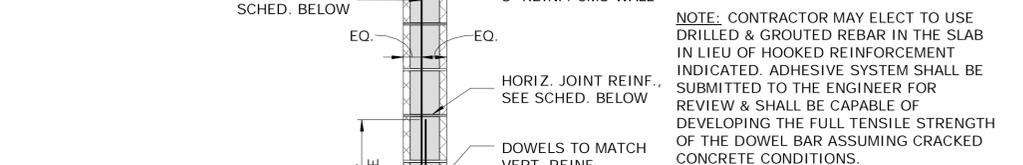
② TYPICAL CMU WALL REINFORCING SPLICING DETAIL  
SCALE: NTS



④ TYPICAL SLAB DETAIL AT REINFORCED INTERIOR CMU WALL @ 6" THICKENED SLAB  
SCALE: NTS



NOTE: CONTRACTOR MAY ELECT TO USE DRILLED & GROUDED REBAR IN THE SLAB IN LIEU OF HOOKED REINFORCEMENT INDICATED. ADHESIVE SYSTEM SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW & SHALL BE CAPABLE OF DEVELOPING THE FULL TENSILE STRENGTH OF THE DOWEL BAR ASSUMING CRACKED CONCRETE CONDITIONS.



NOTE: CONTRACTOR MAY ELECT TO USE DRILLED & GROUDED REBAR IN THE SLAB IN LIEU OF HOOKED REINFORCEMENT INDICATED. ADHESIVE SYSTEM SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW & SHALL BE CAPABLE OF DEVELOPING THE FULL TENSILE STRENGTH OF THE DOWEL BAR ASSUMING CRACKED CONCRETE CONDITIONS.

⑤ TYPICAL DETAIL AT REINFORCED INTERIOR CMU WALL @ 8" THICK SLAB  
SCALE: NTS

MINIMUM CONCRETE MASONRY WALL REINFORCING SCHEDULE			
WALL LOCATION	WALL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
ALL EXTERIOR WALLS	8"	#5 @ 24" O.C. GROUT ALL CELLS SOLID	TRUSS TYPE, HEAVY GAUGE OR 3/16" SIDE AND CROSS RODS @ 8" O.C. VERTICAL
INTERIOR WALLS UP TO HEIGHT OF 10'-0"	8"	#5 @ 24" O.C.	TRUSS TYPE, 9 GAUGE SIDE AND CROSS RODS @ 8" O.C. VERTICAL
INTERIOR WALLS GREATER THAN HEIGHT OF 10'-0"	8"	#5 @ 24" O.C.	TRUSS TYPE, 9 GAUGE SIDE AND CROSS RODS @ 8" O.C. VERTICAL + (1)-#5 IN BOND BEAM @ 48" O.C.

NOTES:

- REFER TO PLANS AND SECTIONS FOR REINFORCING REQUIREMENTS MORE STRINGENT THAN IN THE SCHEDULE.
- ALL VERTICAL REINFORCING STEEL TO BE CENTERED IN SOLIDLY GROUDED CELLS WITH A MAXIMUM GROUT LIFT OF 48". PROVIDE 2'-6" MINIMUM BAR SPLICE TYPICAL.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS AND JOINT LOCATIONS.

- NOTES:
- LENGTH OF STEEL LINTEL = OPENING + 1'-4" (8" MIN. BEARING BOTH ENDS).
  - ALL STEEL LINTELS IN EXTERIOR WALLS TO BE GALVANIZED.
  - CONTRACTOR SHALL SUPPLY LOOSE ANGLE LINTELS OVER ALL MASONRY OPENINGS & RECESSES, U.N.O.
  - ALL DOUBLE ANGLES OVER 5'-0" LONG ARE TO BE BOLTED AT 3'-0" O.C.
  - ALL ANGLES LONG LEG VERTICAL, U.N.O.

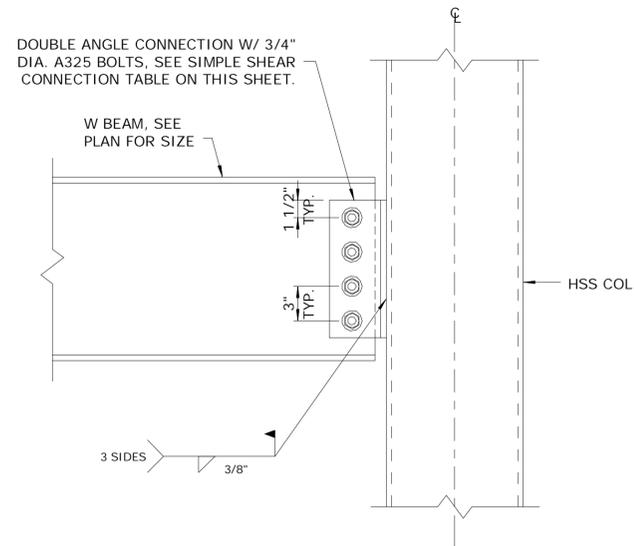
⑥ BRICK LINTEL SCHEDULE  
SCALE: NTS



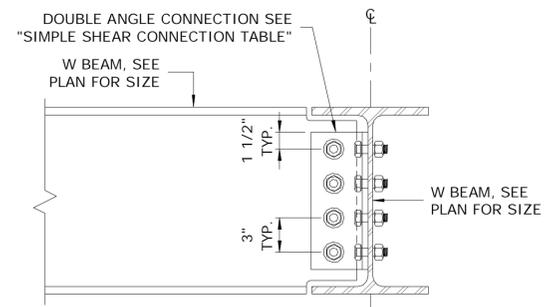
SIMPLE SHEAR CONNECTION TABLE					
BEAM SIZE	# ROWS OF BOLTS	TYPE	ANGLE SIZE	ANGLE LENGTH	COMMENTS
W8x15	2	A, B, C, D	(2)-L4x3 1/2x3/8	6"	SEE TYPICAL W BEAM TO HSS COLUMN CONNECTION DETAIL ON STR-013
W8x21	2	B, C	(2)-L4x3 1/2x3/8	6"	SEE TYPICAL W BEAM TO HSS COLUMN CONNECTION DETAIL ON STR-013
W12x26	3	A, B, C	(2)-L4x3 1/2x3/8	9"	
W14x22	3	C, D	(2)-L4x3 1/2x3/8	9"	
W14x48	3	C	(2)-L4x3 1/2x3/8	9"	
W14x53	3	C	(2)-L4x3 1/2x3/8	9"	
W16x31	4	A, B, C, D	(2)-L4x3 1/2x3/8	12"	
W18x35	5	B	(2)-L4x3 1/2x3/8	15"	
W18x40	5	B, C, D	(2)-L4x3 1/2x3/8	15"	
W18x76	5	C	(2)-L4x3 1/2x3/8	15"	
W18x76	5	E	3/8" SHEAR TAB	-	
W18x97	5	E	3/8" SHEAR TAB	-	
W21x50	5	A, B, C, D	(2)-L4x3 1/2x3/8	15"	
W24x55	6	C, D	(2)-L4x3 1/2x3/8	18"	
W24x62	6	C, D	(2)-L4x3 1/2x3/8	18"	
W24x68	6	C, D	(2)-L4x3 1/2x3/8	18"	
W24x76	6	C, D	(2)-L4x3 1/2x3/8	18"	
W24x94	6	C, D	(2)-L4x3 1/2x3/8	18"	
W27x84	7	C	(2)-L4x3 1/2x3/8	21"	
W27x84	7	E	SHEAR TAB	-	
W33x118	9	E	SHEAR TAB	-	
W44x230	12	C	(2)-L4x3 1/2x1/2	36"	
W44x262	12	C	(2)-L4x3 1/2x1/2	36"	

NOTES:

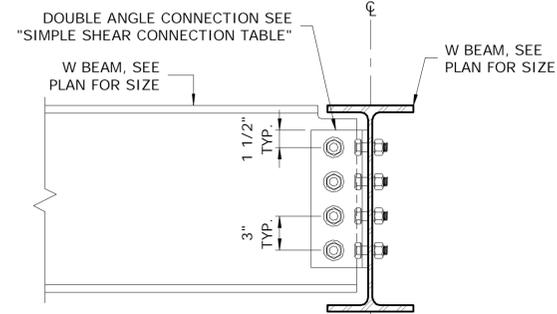
- BOLTED CONNECTIONS SHALL USE 3/4"Ø, PRETENSIONED, ASTM A325 HIGH STRENGTH BOLTS.



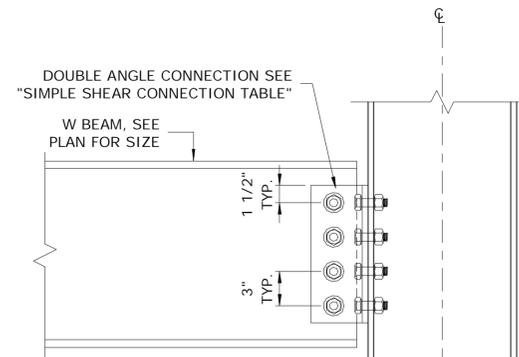
2 TYPICAL W BEAM TO HSS COLUMN CONNECTION DETAIL  
SCALE: 1 1/2" = 1'-0"



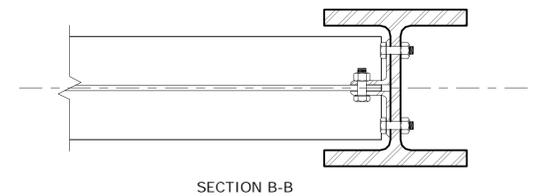
TYPE A



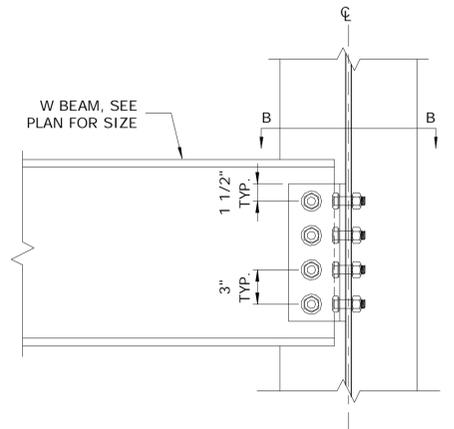
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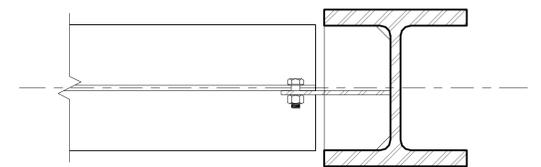
TYPE C



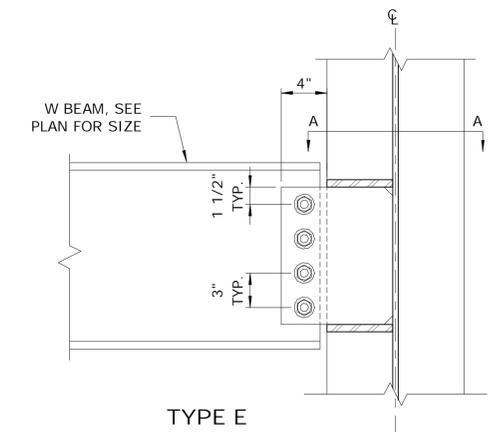
SECTION B-B



TYPE D



SECTION A-A



TYPE E

1 SIMPLE SHEAR CONNECTION DETAILS  
SCALE: NTS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.  
Plotted Date: 10/23/2014 3:04:52 PM

DESIGNER/DRAFTER:  
**CPS/ JFC**  
CHECKED BY:  
**EVD**  
SCALE: 1 1/2" = 1'-0"

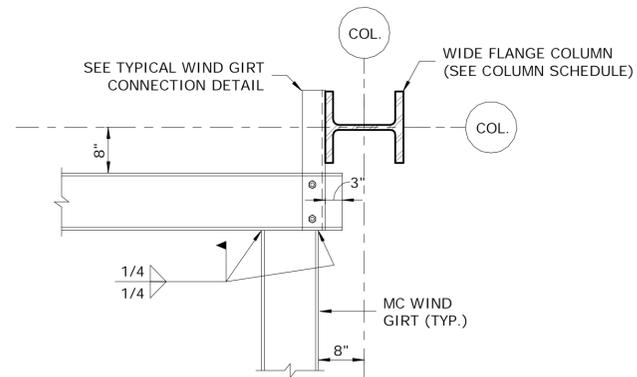
STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
Signature/Block: [Signature]

SIGNATURE/BLOCK:  
Kleinfelder  
500 Enterprise Drive  
Suite 4B  
Rocky Hill, CT 06067

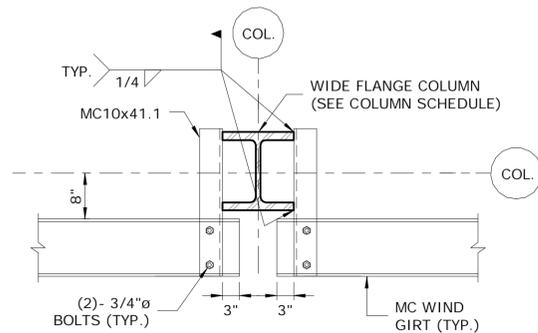
PROJECT TITLE:  
**REPAIR FACILITY**

TOWN:  
**ROCKY HILL**  
DRAWING TITLE:  
**TYPICAL DETAILS V**

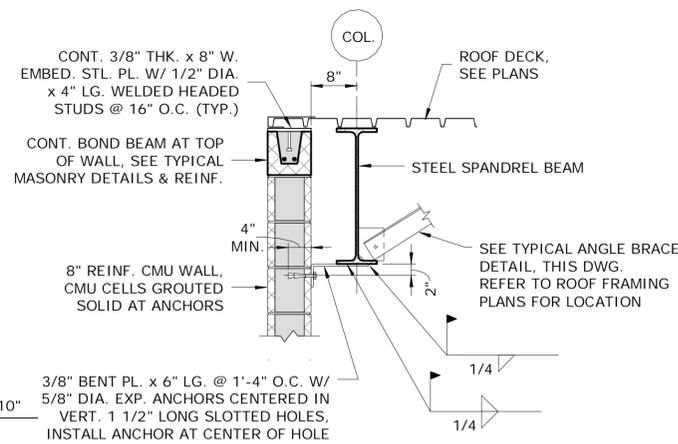
PROJECT NO.  
**118-167**  
DRAWING NO.  
**STR-009**  
SHEET NO.  
**07.09**



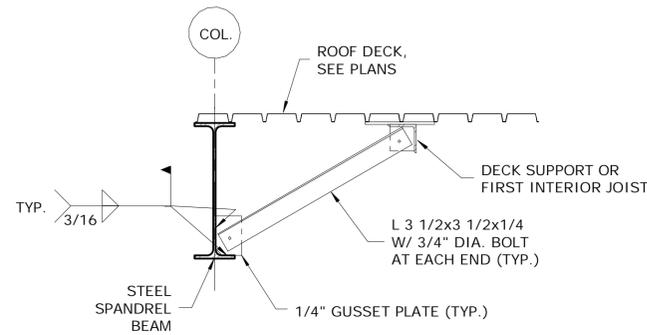
1 TYPICAL WIND GIRT CONNECTION DETAIL AT RE-ENTRANT CORNERS  
SCALE: NTS



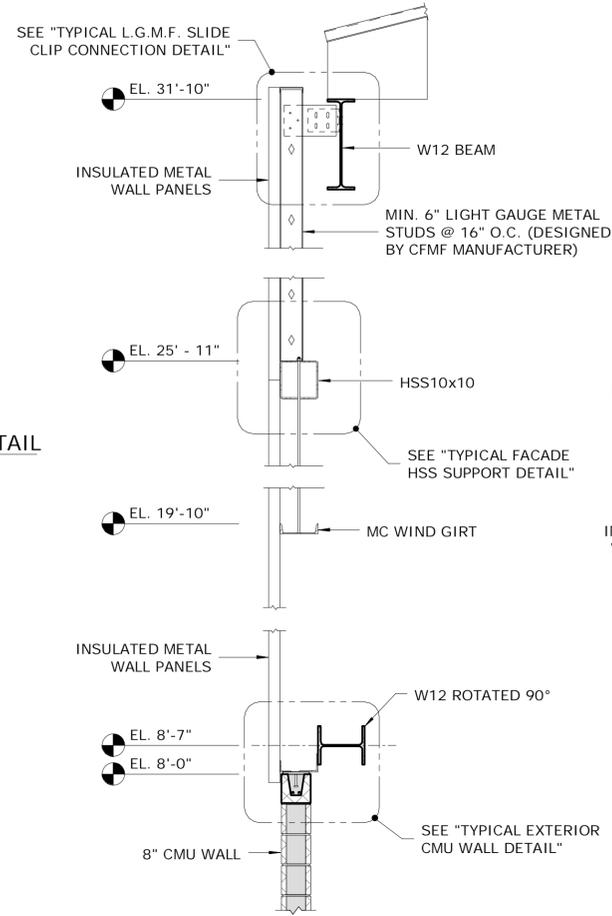
2 TYPICAL WIND GIRT CONNECTION DETAIL  
SCALE: NTS



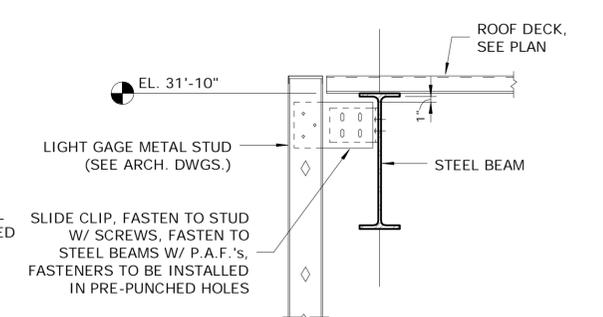
3 TYPICAL MASONRY WALL TO SPANDREL BEAM OR GIRT CONNECTION DETAIL  
SCALE: NTS



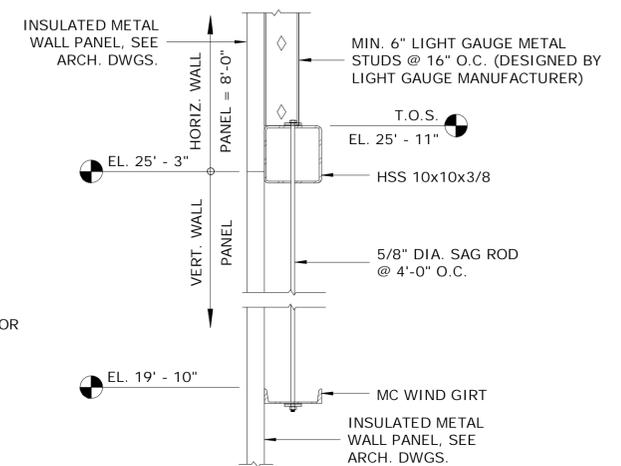
4 TYPICAL ANGLE BRACE DETAIL  
SCALE: NTS



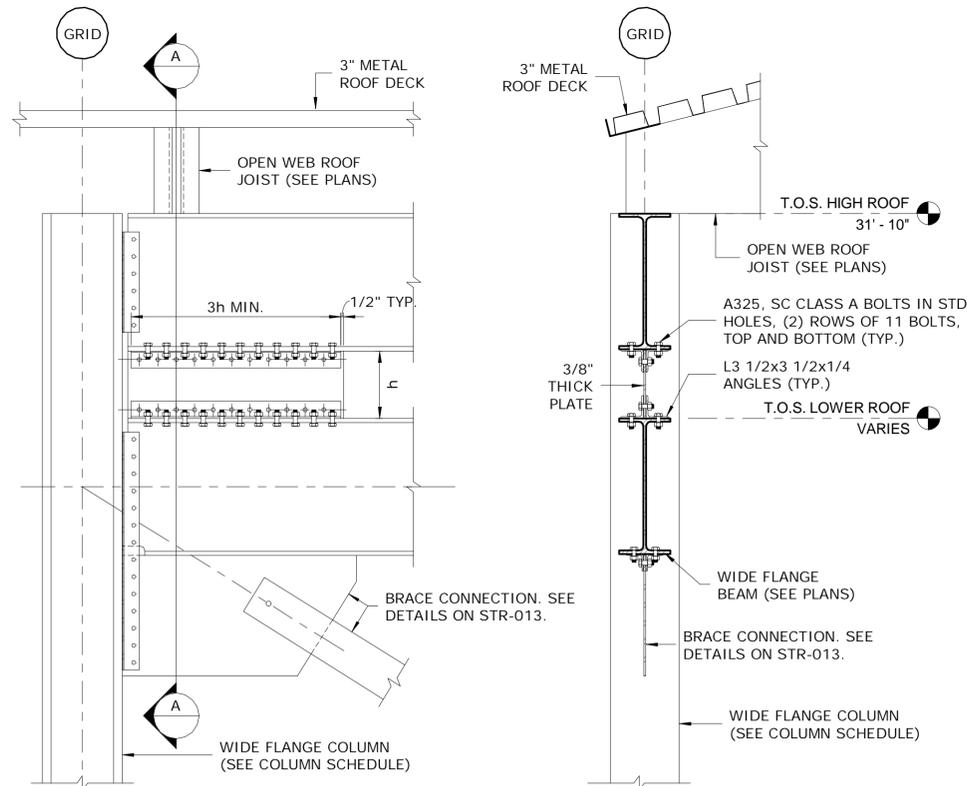
5 TYPICAL EXTERIOR WALL SECTION  
SCALE: NTS



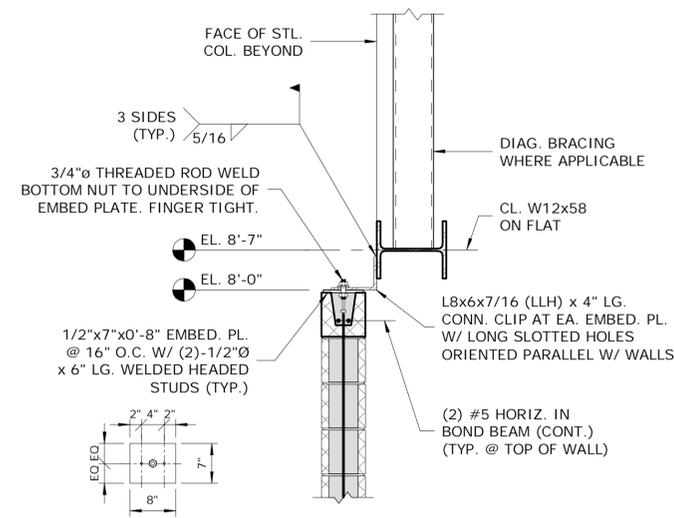
6 TYPICAL L.G.M.F. SLIDE CLIP CONNECTION DETAIL  
SCALE: NTS



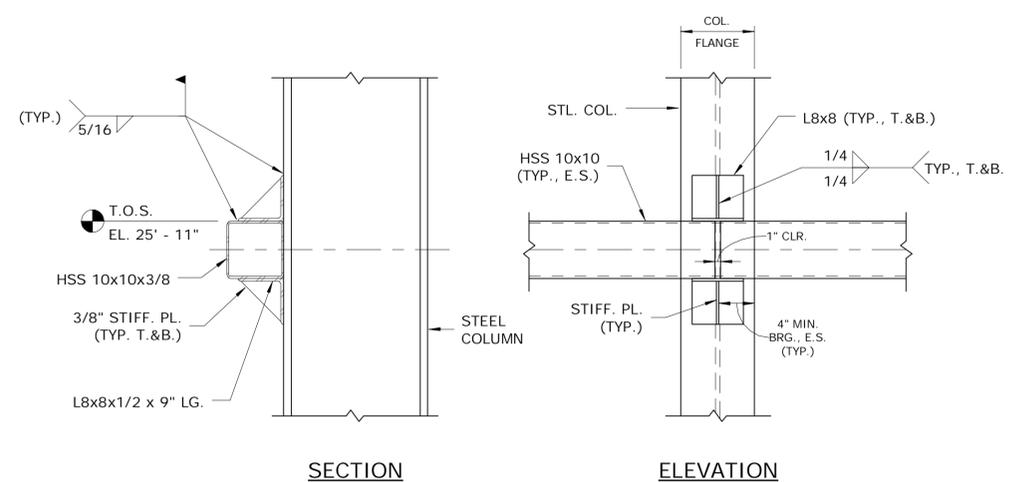
7 TYPICAL FACADE HSS SUPPORT DETAIL  
SCALE: NTS



8 TYPICAL GUSSET DETAIL AT ROOF STEPS  
SCALE: NTS



9 TYPICAL EXTERIOR CMU WALL DETAIL  
SCALE: NTS



10 TYPICAL FACADE HSS SUPPORT DETAIL AT COLUMN  
SCALE: NTS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER: **AAO/JFC**  
 CHECKED BY: **EVD**  
 SCALE: As indicated

STATE OF CONNECTICUT  
 DEPARTMENT OF TRANSPORTATION

File name: C:\Revit 2014\STRUCT\_CT\_DOT\_Rocky Hill Repair Facility\_Central Replace

SIGNATURE/BLOCK:

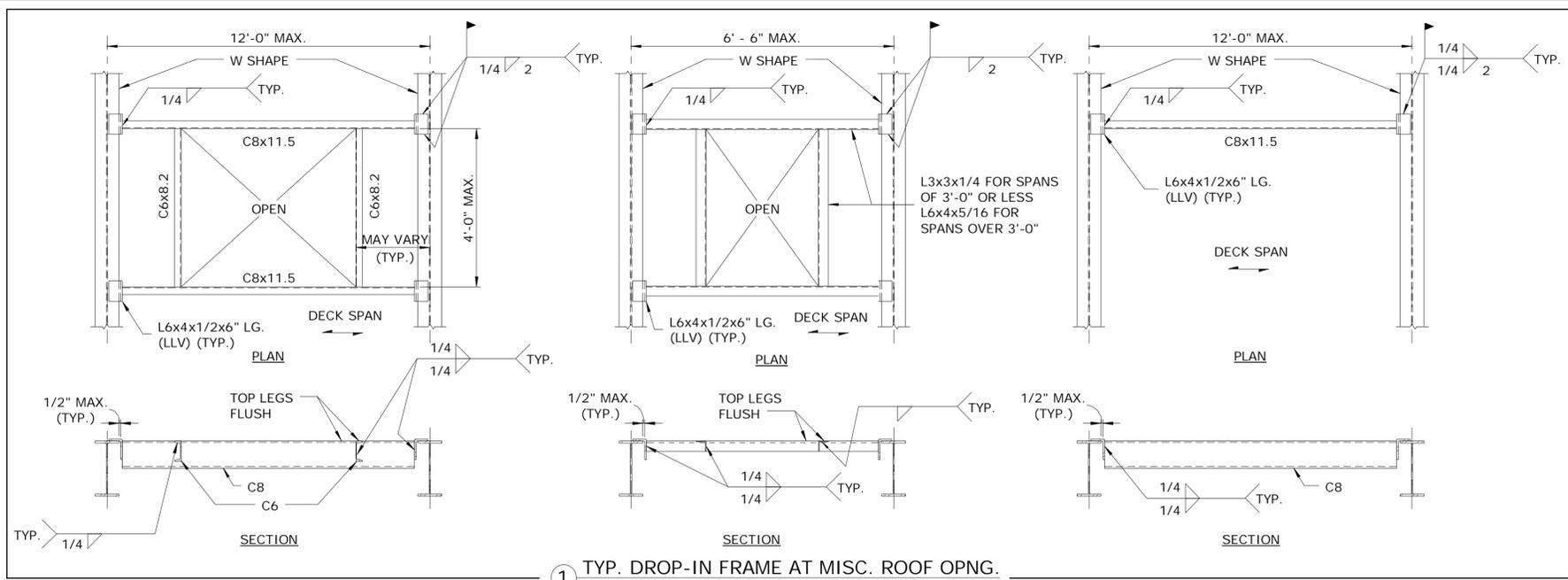
Kleinfelder  
 500 Enterprise Drive  
 Suite 4B  
 Rocky Hill, CT 06067

PROJECT TITLE: **REPAIR FACILITY**

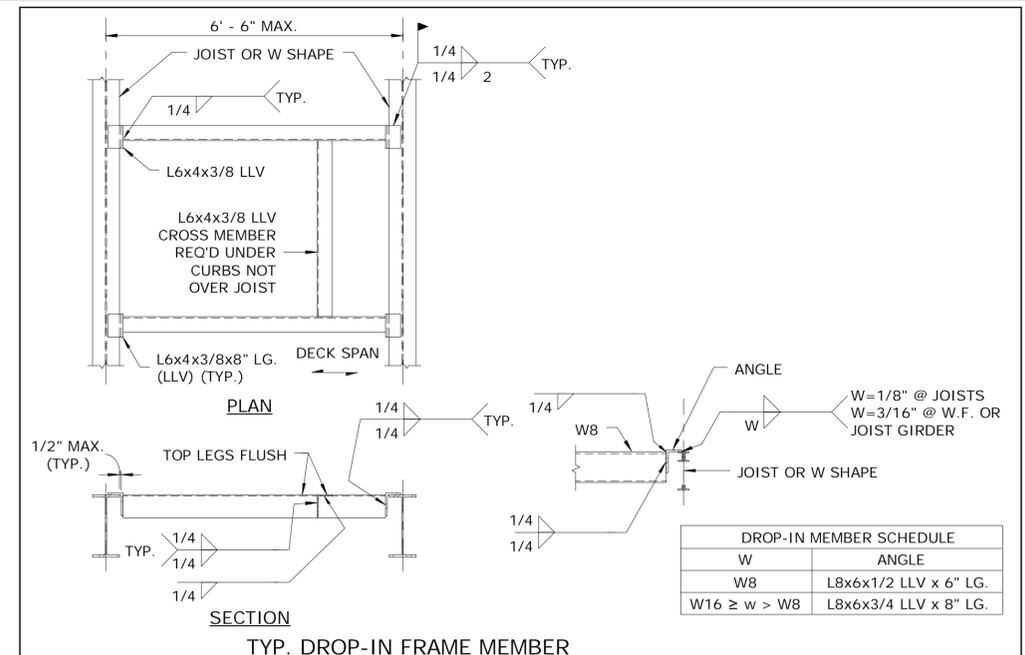
TOWN: **ROCKY HILL**  
 DRAWING TITLE: **TYPICAL DETAILS VI**

PROJECT NO. **118-167**  
 DRAWING NO. **STR-010**  
 SHEET NO. **07.10**



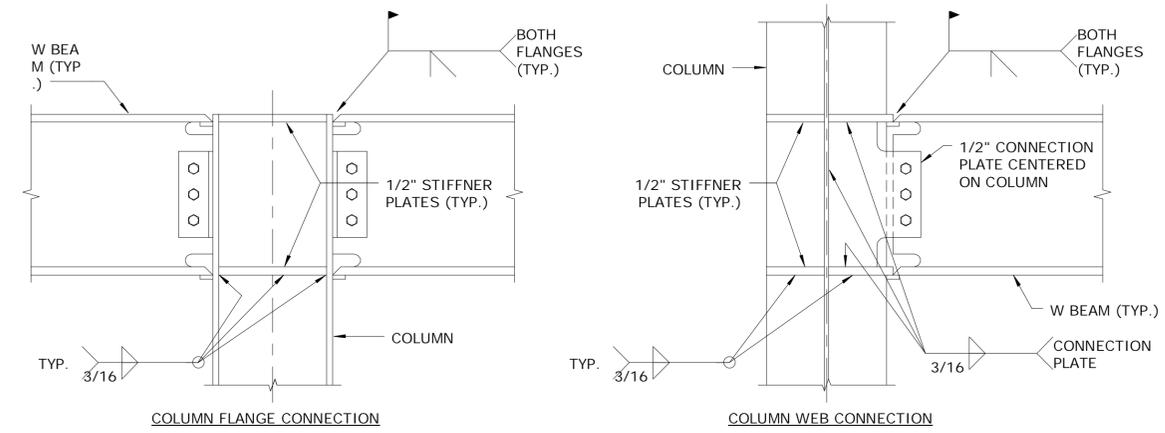


1 TYP. DROP-IN FRAME AT MISC. ROOF OPNG.  
SCALE: NTS

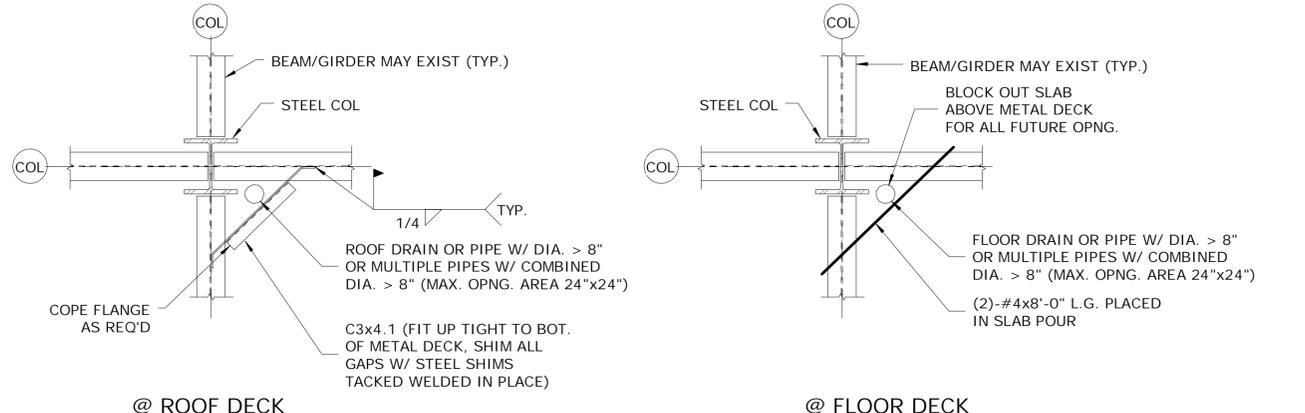


3 TYP. DROP-IN FRAME MEMBER UNDER CURB OF ROOF TOP MECH. UNITS  
SCALE: NTS

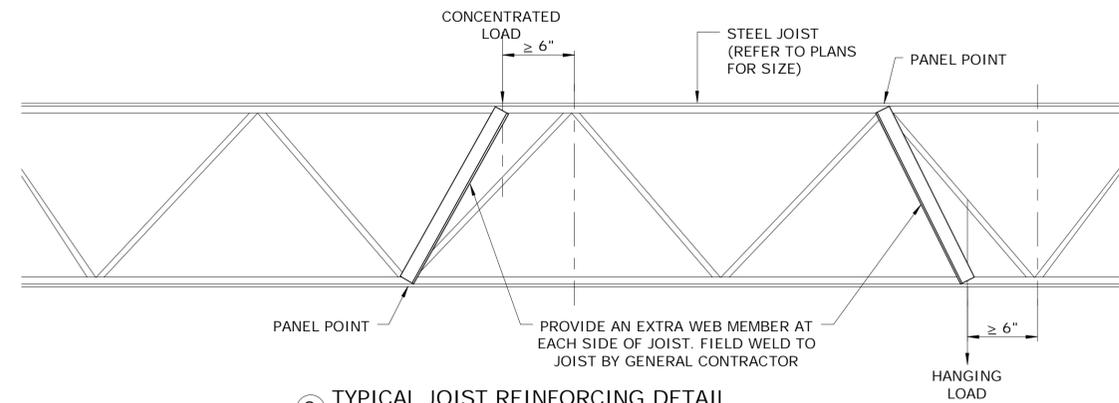
DROP-IN MEMBER SCHEDULE	
W	ANGLE
W8	L8x6x1/2 LLV x 6\" LG.
W16 ≥ w > W8	L8x6x3/4 LLV x 8\" LG.



4 TYPICAL W BEAM TO COLUMN MOMENT CONNECTION DETAILS  
SCALE: NTS

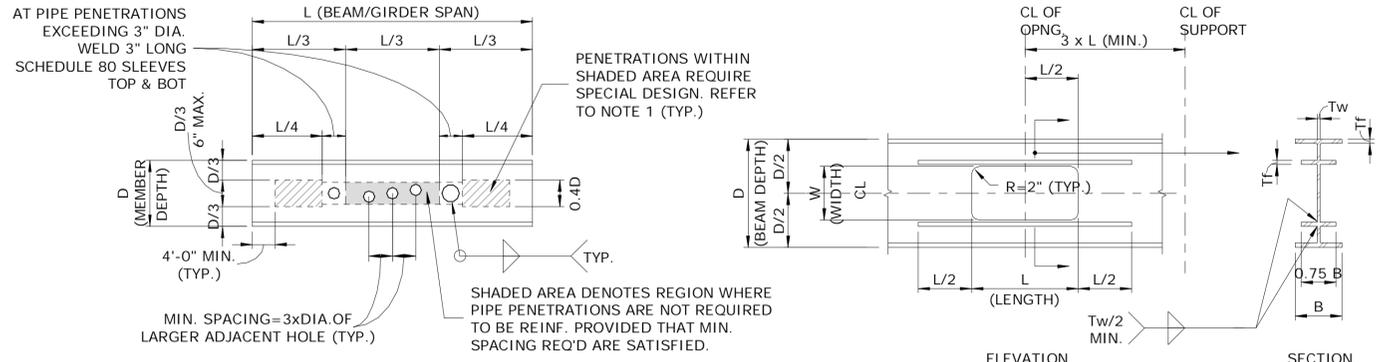


5 TYPICAL METAL DECK SUPPORT AT COLUMNS  
SCALE: NTS



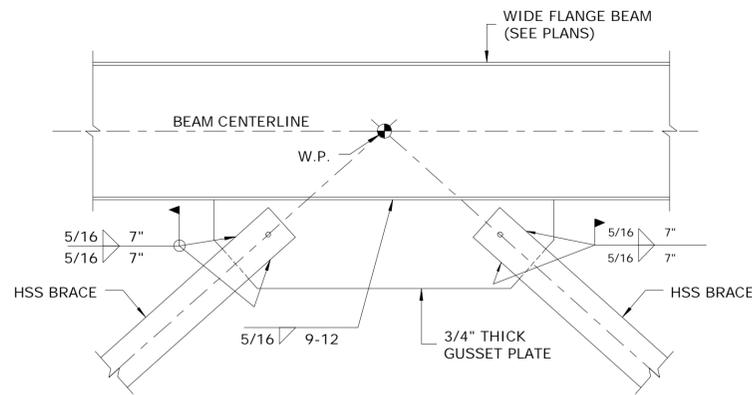
2 TYPICAL JOIST REINFORCING DETAIL  
SCALE: NTS

MAXIMUM CONCENTRATED LOAD IS 200 LBS. NOTIFY ENGINEER OF RECORD IF LOAD EXCEEDS 200 LBS.

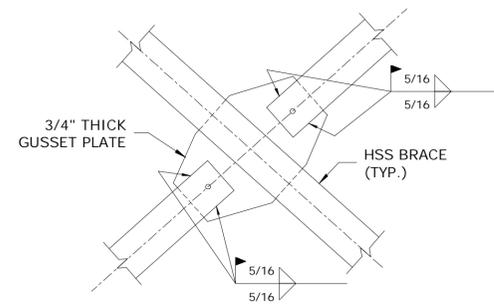


6 TYP. BEAM/GIRDER PENETRATION DETAILS  
SCALE: NTS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:04:56 PM	DESIGNER/DRAFTER: <b>CPS/JFC</b> CHECKED BY: <b>EVD</b> SCALE: As indicated	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION File name: C:\Revit1 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replac	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-012</b> SHEET NO. <b>07.12</b>
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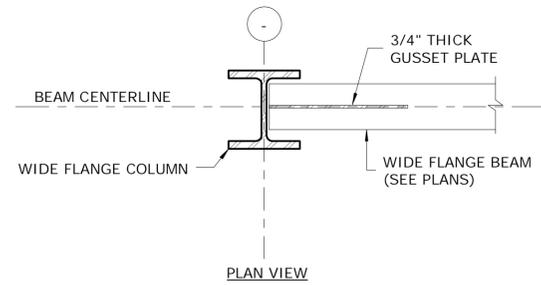


SECTION VIEW  
INVERTED V CONNECTION DETAIL

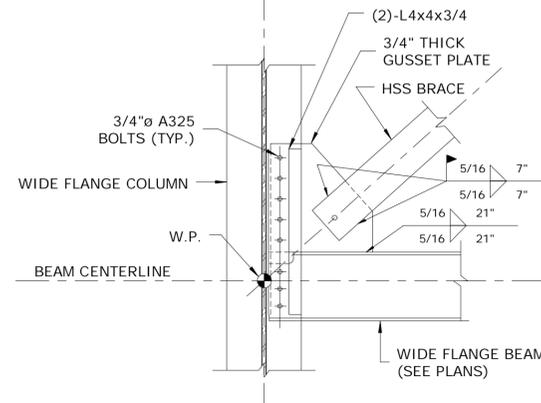


SECTION VIEW

BRACE INTERSECTION  
CONNECTION DETAIL

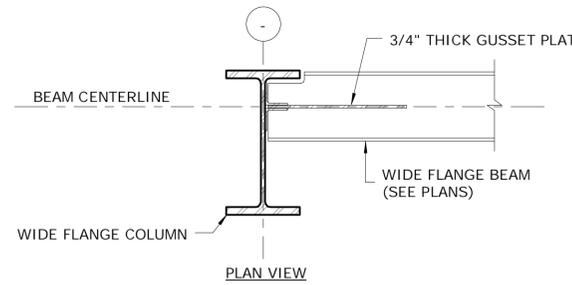


PLAN VIEW

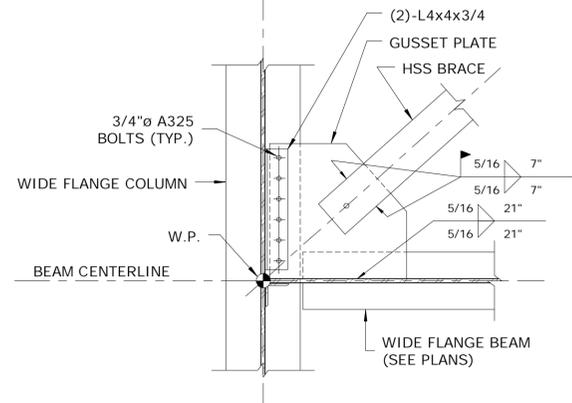


SECTION VIEW

LOWER BRACE CONNECTION DETAIL

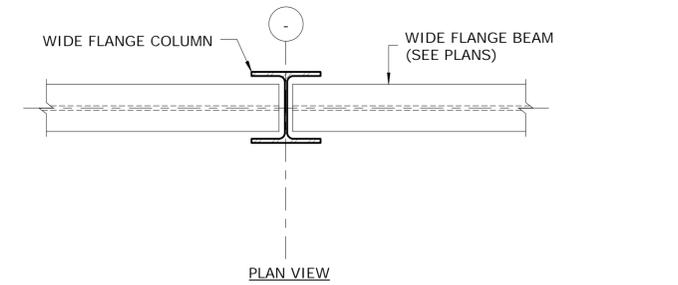


PLAN VIEW

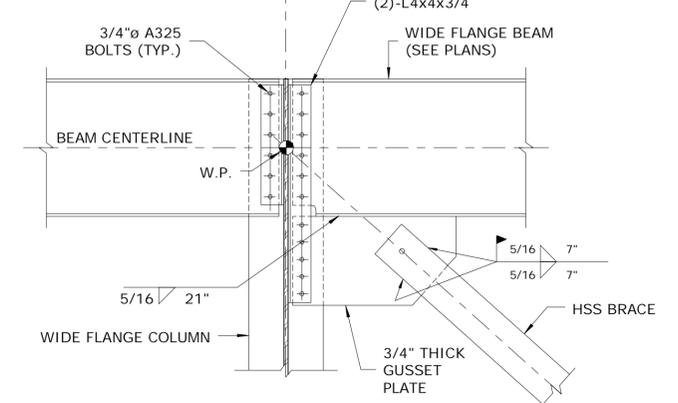


SECTION VIEW

LOWER BRACE CONNECTION DETAIL



PLAN VIEW



SECTION VIEW

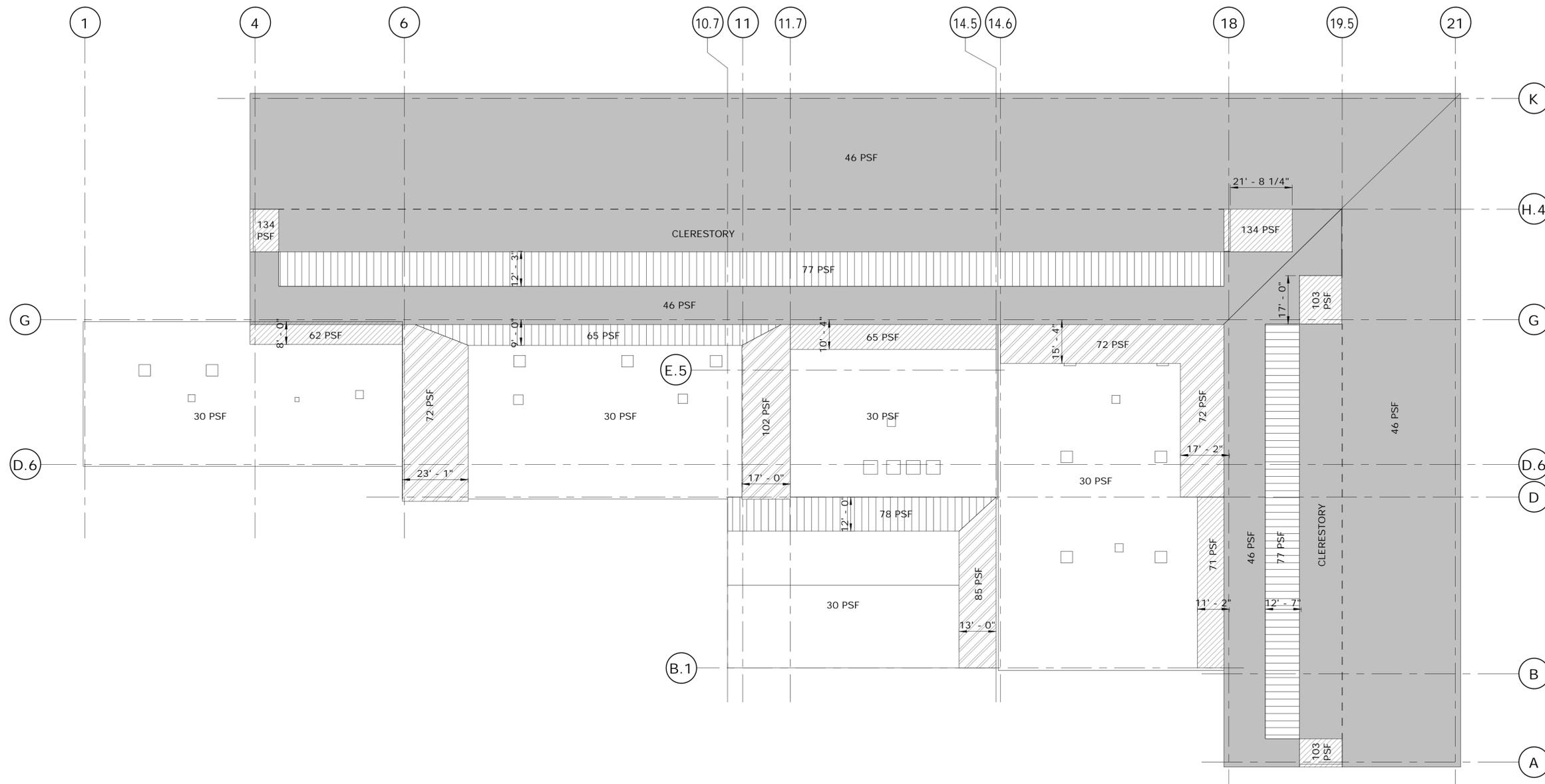
UPPER BRACE CONNECTION DETAIL

1 TYPICAL BRACED FRAME CONNECTION DETAILS  
SCALE: NTS

NOTES:

1. REFER TO STRUCTURAL GENERAL NOTES AND ABBREVIATIONS ON STR-002 THRU STR-004.
2. REFER TO FRAME ELEVATIONS ON SHEETS STR-131 THROUGH STR-137 FOR BRACE DESIGN LOADS.
3. W.P. - INDICATES WORKING POINT OF CONNECTION.

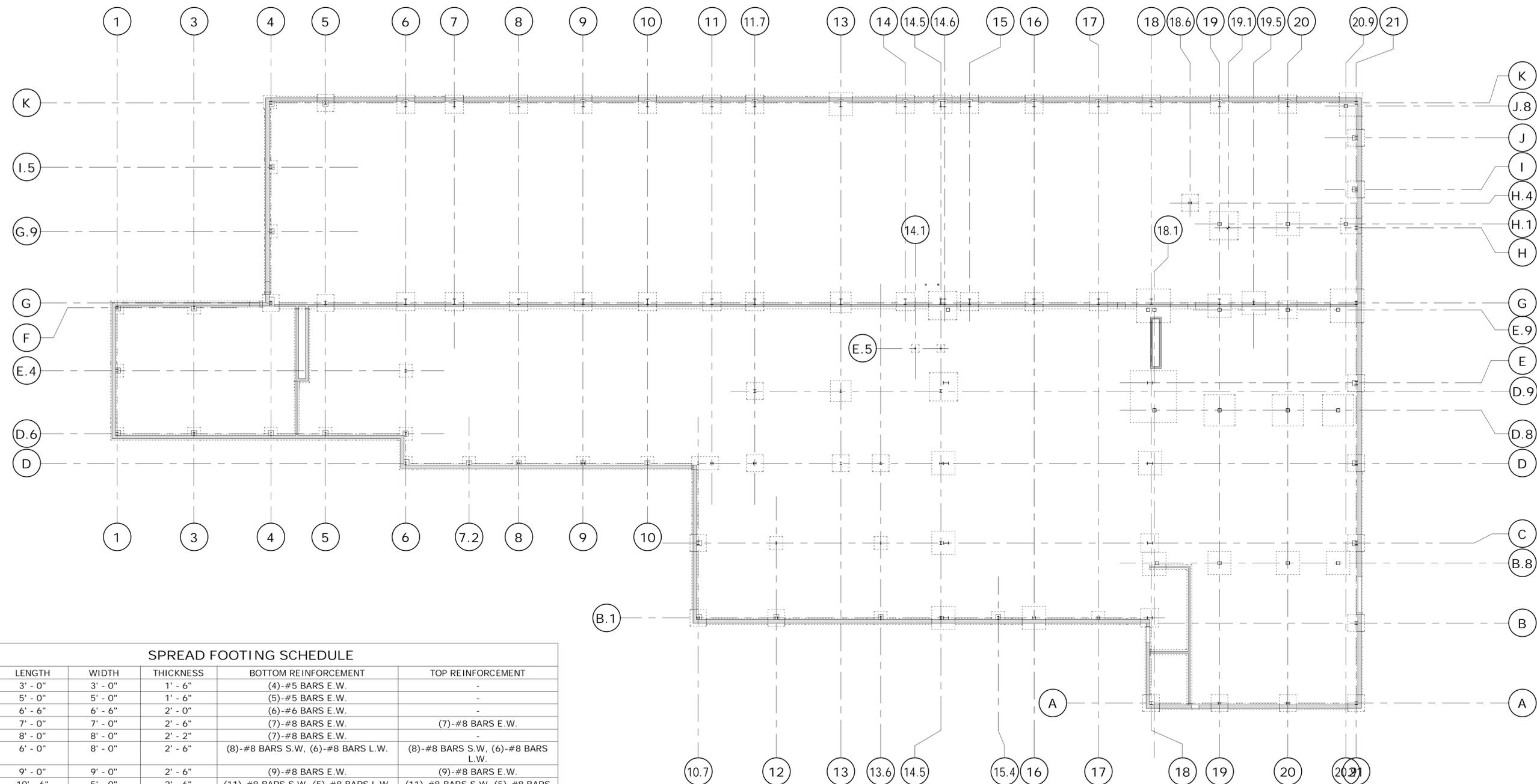
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:04:57 PM			DESIGNER/DRAFTER: <b>CPS/JFC</b> CHECKED BY: <b>EVD</b> SCALE: 3/4" = 1'-0"	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	SIGNATURE/ BLOCK: 	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b> DRAWING TITLE: <b>TYPICAL DETAILS IX</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-013</b> SHEET NO. <b>07.13</b>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.					



1 SNOW DRIFT LOADING DIAGRAM  
SCALE: 3/64" = 1'-0"

- NOTES:
1. SNOW LOADS INDICATED INCLUDE 30 PSF FLAT ROOF SNOW LOAD OR UNBALANCED SNOW LOAD.
  2. DEAD LOADS SHALL INCLUDE 25 PSF SUPERIMPOSED DEAD LOAD AND SELFWEIGHT OF MEMBERS.
  3. NET WIND UPLIFT LOADS (Pnet) ON THE ROOF:
    - A. 26 PSF = FIELD
    - B. 36 PSF = PERIMETER
    - C. 57 PSF = CORNERS

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:04:57 PM		DESIGNER/DRAFTER: <b>CMG/ JFC</b> CHECKED BY: <b>EVD</b> SCALE: 3/64" = 1'-0"	 <b>STATE OF CONNECTICUT</b> DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b> DRAWING TITLE: <b>SNOW DRIFT LOADING DIAGRAM</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-014</b> SHEET NO. <b>07.14</b>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.				



SPREAD FOOTING SCHEDULE					
MARK	LENGTH	WIDTH	THICKNESS	BOTTOM REINFORCEMENT	TOP REINFORCEMENT
F3.0	3' - 0"	3' - 0"	1' - 6"	(4) -#5 BARS E.W.	-
F5.0	5' - 0"	5' - 0"	1' - 6"	(5) -#5 BARS E.W.	-
F6.5	6' - 6"	6' - 6"	2' - 0"	(6) -#6 BARS E.W.	-
F7.0	7' - 0"	7' - 0"	2' - 6"	(7) -#8 BARS E.W.	(7) -#8 BARS E.W.
F8.0	8' - 0"	8' - 0"	2' - 2"	(7) -#8 BARS E.W.	-
F8.0x6.0	6' - 0"	8' - 0"	2' - 6"	(8) -#8 BARS S.W., (6) -#8 BARS L.W.	(8) -#8 BARS S.W., (6) -#8 BARS L.W.
F9.0	9' - 0"	9' - 0"	2' - 6"	(9) -#8 BARS E.W.	(9) -#8 BARS E.W.
F10.5x5.0	10' - 6"	5' - 0"	2' - 6"	(11) -#8 BARS S.W., (5) -#8 BARS L.W.	(11) -#8 BARS S.W., (5) -#8 BARS L.W.
F11.0	11' - 0"	11' - 0"	3' - 0"	(11) -#8 BARS E.W.	(11) -#8 BARS E.W.
F12.0	12' - 0"	12' - 0"	3' - 1"	(12) -#9 BARS E.W.	-
F13.0	13' - 0"	13' - 0"	3' - 3"	(13) -#9 BARS E.W.	(13) -#9 BARS E.W.
F20.x18.0	20' - 0"	18' - 0"	3' - 0"	(20) -#8 BARS S.W., (18) -#8 BARS L.W.	(20) -#8 BARS S.W., (18) -#8 BARS L.W.

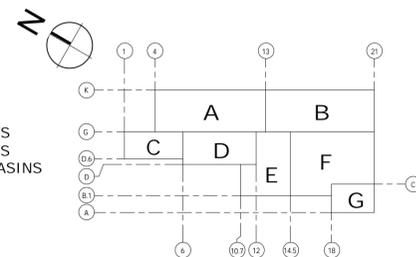
NOTE: REFER TO ENLARGED PART PLANS FOR FOOTING CALLOUTS.

NOTE:  
1. REFER TO ELECTRICAL DRAWINGS FOR GROUNDING REQUIREMENTS WITHIN THE FOUNDATION OF THE BUILDING.

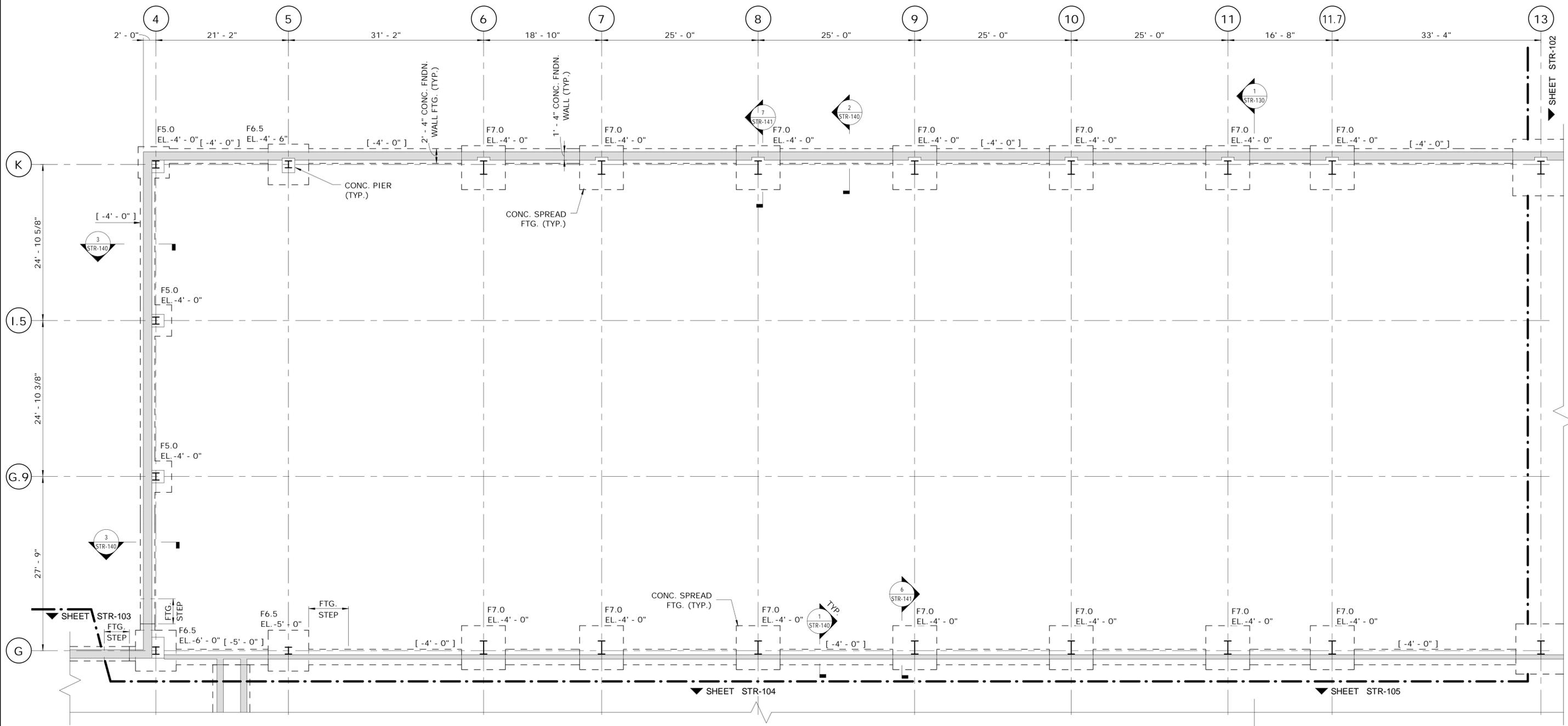
1 OVERALL FOUNDATION PLAN  
SCALE: 3/64" = 1'-0"

NOTE: OVERALL PLANS ARE PROVIDED AS A GENERAL OVERVIEW OF THE BUILDING'S FOUNDATIONS. REFER TO INDIVIDUAL PART PLANS FOR GREATER DETAIL.  
PART "A": STR-101  
PART "B": STR-102  
PART "C": STR-103  
PART "D": STR-104  
PART "E": STR-105  
PART "F": STR-106  
PART "G": STR-107

PARTIAL PLAN LEGEND:  
• A - NORTH REPAIR BAYS  
• B - SOUTH REPAIR BAYS  
• C - LUBE AND WASH BASINS  
• D - STORES  
• E - OFFICE AREA  
• F - MACHINE SHOP  
• G - PAINT AREA



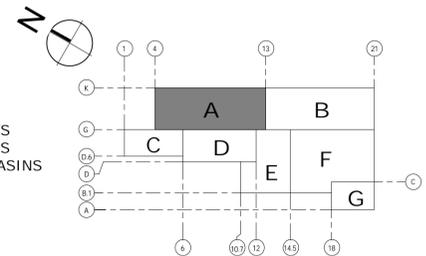
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:04:59 PM	DESIGNER/DRAFTER: <b>CPS/JFC</b> CHECKED BY: <b>EVD</b> SCALE: As indicated	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION File name: C:\Revit1 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace	SIGNATURE/BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO.: <b>118-167</b> DRAWING NO.: <b>STR-100</b> SHEET NO.: <b>07.15</b>
REV. DATE REVISION DESCRIPTION SHEET NO.						



**1 FOUNDATION PLAN PART A**  
SCALE: 1/8" = 1'-0"

- NOTES:**
- FOR CONCRETE GENERAL NOTES AND TYPICAL DETAILS, REFER TO DRAWINGS STR-002 THROUGH STR-013.
  - SEE DRAWING STR-143 FOR PIER SCHEDULE AND PIER DETAILS.
  - BOTTOM OF ALL EXTERIOR FOOTING ELEVATIONS SHALL BE AT 4'-0" MIN. BELOW FINISH GRADE, UNLESS NOTED OTHERWISE.
  - SEE DRAWING STR-100 FOR SPREAD FOOTING SCHEDULE.

- PARTIAL PLAN LEGEND:**
- A - NORTH REPAIR BAYS
  - B - SOUTH REPAIR BAYS
  - C - LUBE AND WASH BASINS
  - D - STORES
  - E - OFFICE AREA
  - F - MACHINE SHOP
  - G - PAINT AREA



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER:  
**CPS/JFC**

CHECKED BY:  
**EVD**

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

Plotted Date: 10/23/2014 3:05:00 PM

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

SIGNATURE/  
BLOCK:

Kleinfelder  
500 Enterprise Drive  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

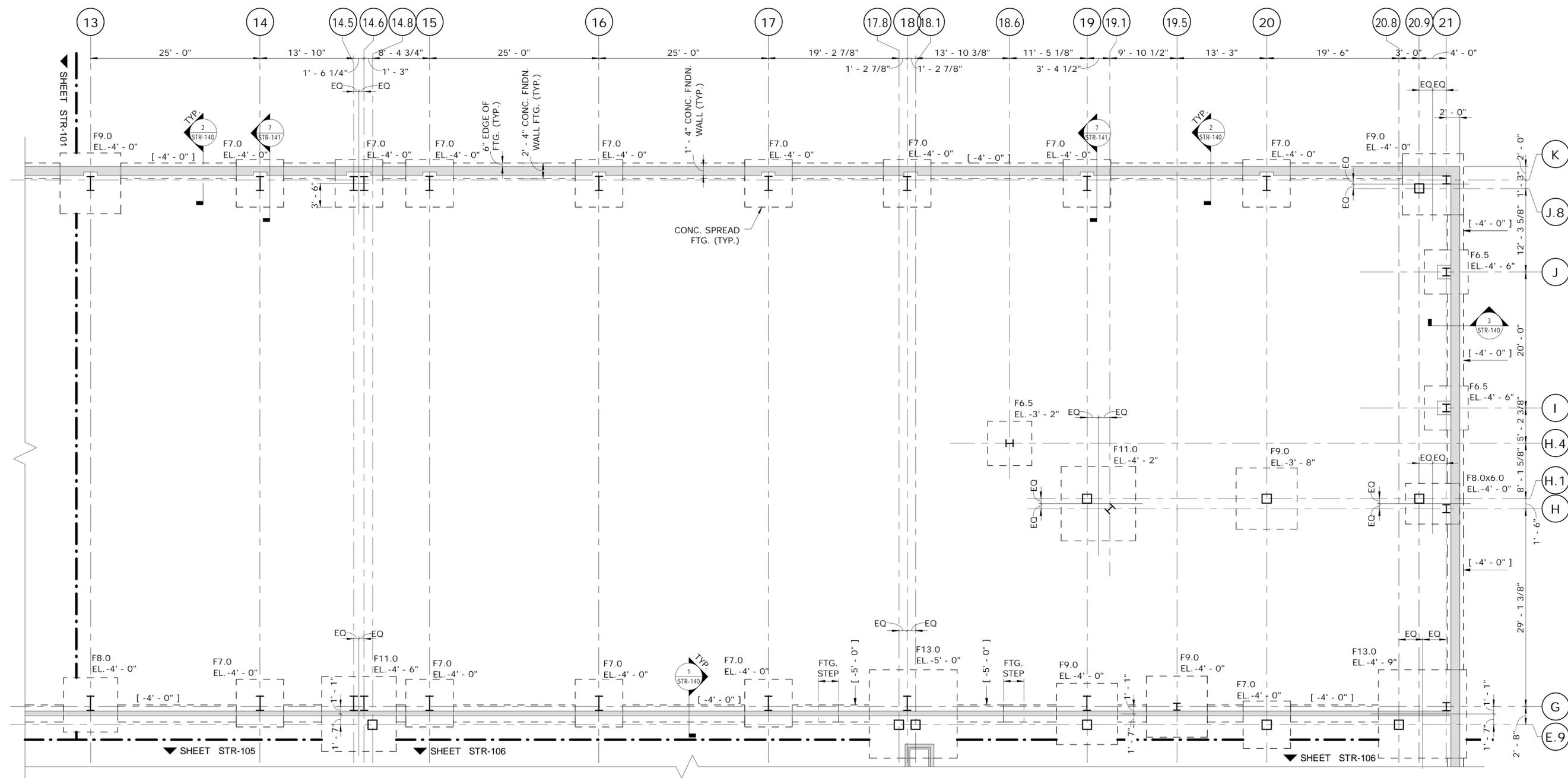
TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**FOUNDATION PART PLAN A**

PROJECT NO.  
**118-167**

DRAWING NO.  
**STR-101**

SHEET NO.  
**07.16**

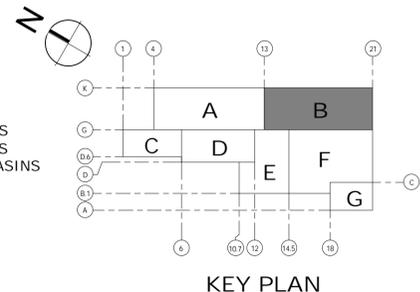


**1 FOUNDATION PLAN PART B**  
SCALE: 1/8" = 1'-0"

- NOTES:**
- FOR CONCRETE GENERAL NOTES AND TYPICAL DETAILS, REFER TO DRAWINGS STR-002 THROUGH STR-013.
  - SEE DRAWING STR-143 FOR PIER SCHEDULE AND PIER DETAILS.
  - BOTTOM OF ALL EXTERIOR FOOTING ELEVATIONS SHALL BE AT 4'-0" MIN. BELOW FINISH GRADE, UNLESS NOTED OTHERWISE.
  - SEE DRAWING STR-100 FOR SPREAD FOOTING SCHEDULE.

**PARTIAL PLAN LEGEND:**

- A - NORTH REPAIR BAYS
- B - SOUTH REPAIR BAYS
- C - LUBE AND WASH BASINS
- D - STORES
- E - OFFICE AREA
- F - MACHINE SHOP
- G - PAINT AREA



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER:  
**CPS/JFC**

CHECKED BY:  
**EVD**

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

Plotted Date: 10/23/2014 3:05:01 PM

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

SIGNATURE/  
BLOCK:

Kleinfelder  
500 Enterprise Drive  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

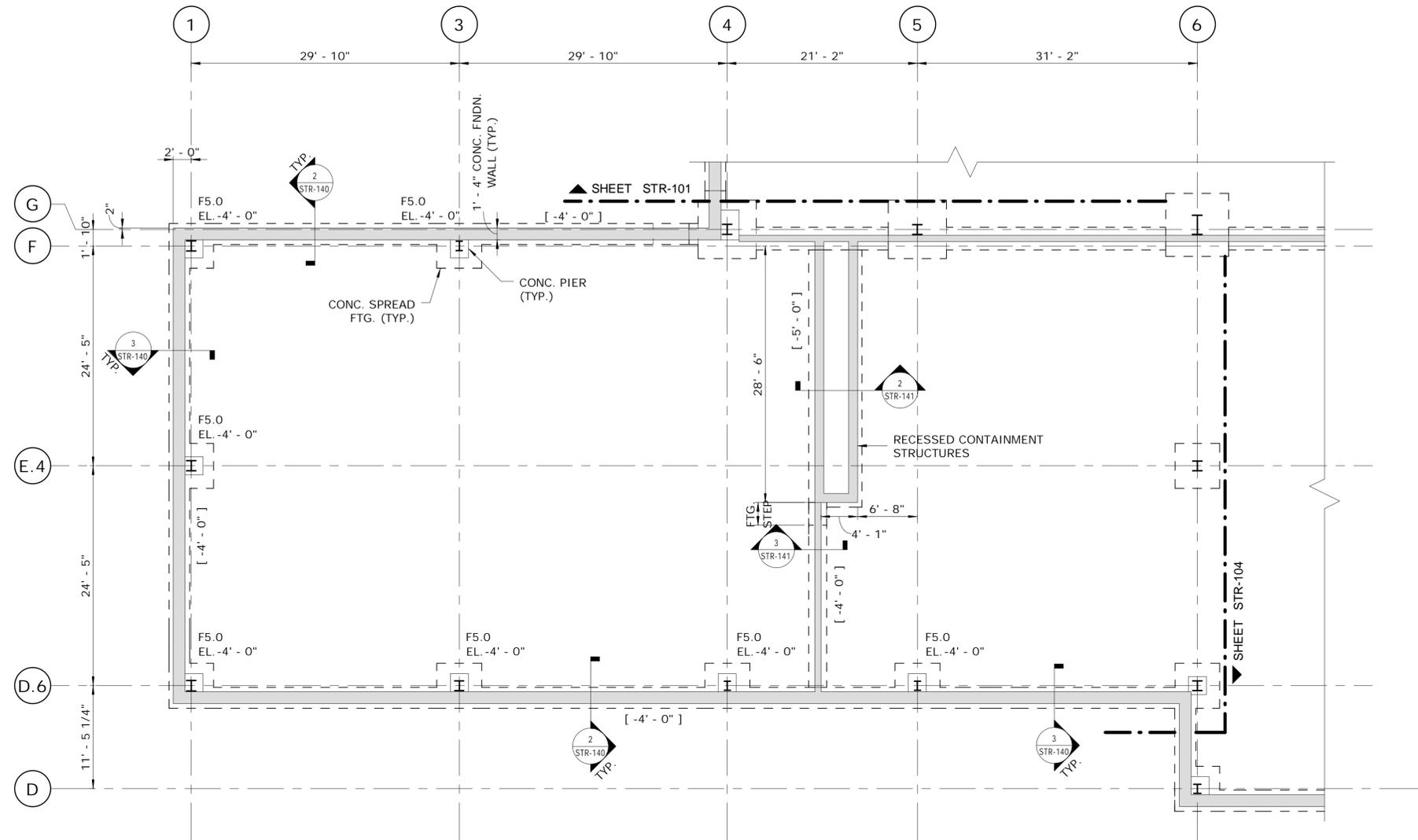
TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**FOUNDATION PART PLAN B**

PROJECT NO.:  
**118-167**

DRAWING NO.:  
**STR-102**

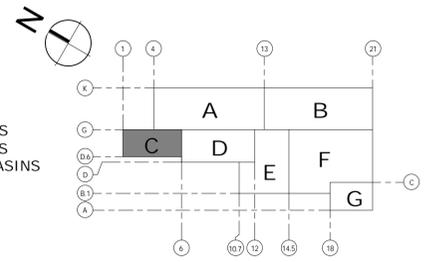
SHEET NO.:  
**07.17**



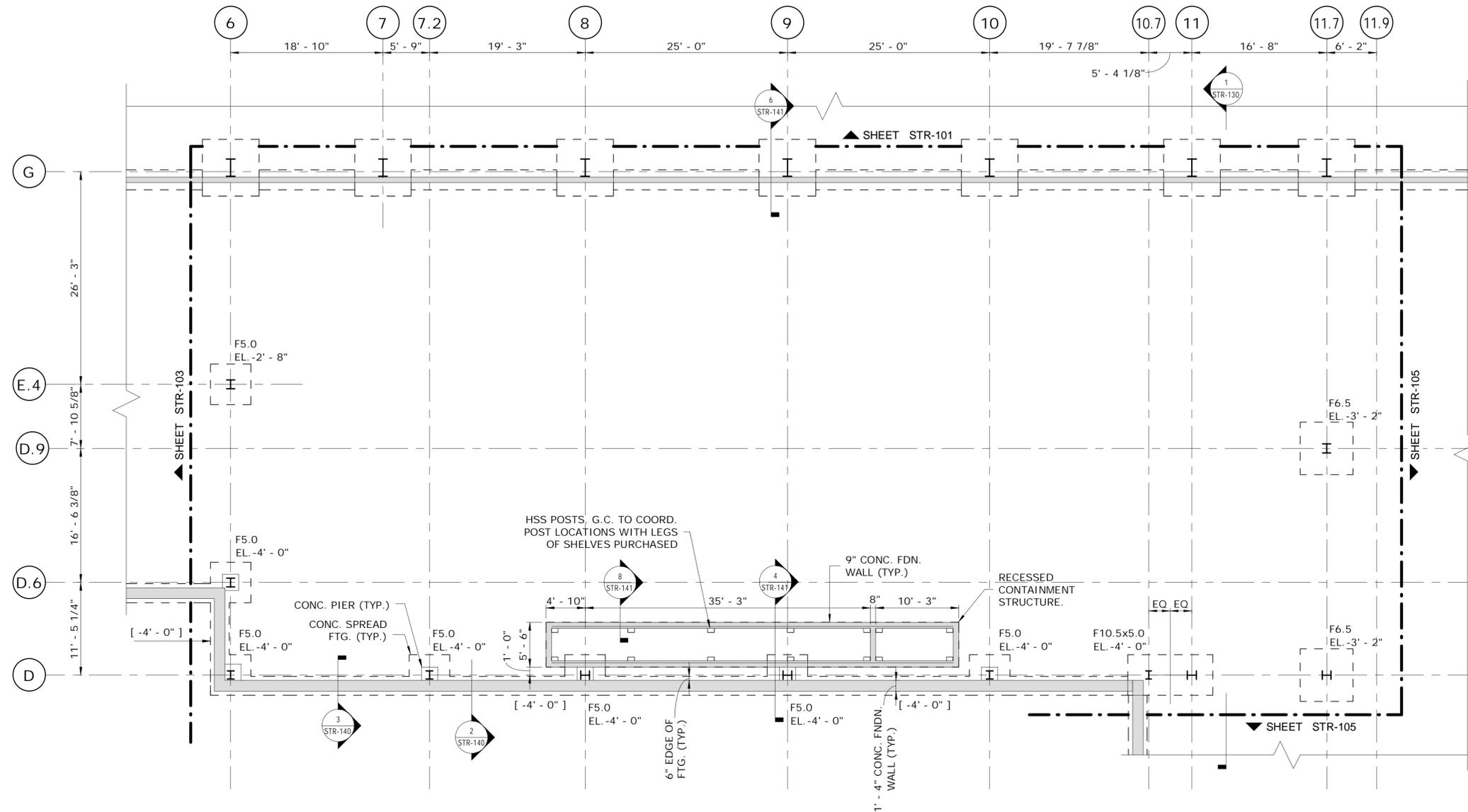
1 FOUNDATION PLAN PART C  
SCALE: 1/8" = 1'-0"

- NOTES:**
- FOR CONCRETE GENERAL NOTES AND TYPICAL DETAILS, REFER TO DRAWINGS STR-002 THROUGH STR-013.
  - SEE DRAWING STR-143 FOR PIER SCHEDULE AND PIER DETAILS.
  - BOTTOM OF ALL EXTERIOR FOOTING ELEVATIONS SHALL BE AT 4'-0" MIN. BELOW FINISH GRADE, UNLESS NOTED OTHERWISE.
  - SEE DRAWING STR-100 FOR SPREAD FOOTING SCHEDULE.

- PARTIAL PLAN LEGEND:**
- A - NORTH REPAIR BAYS
  - B - SOUTH REPAIR BAYS
  - C - LUBE AND WASH BASINS
  - D - STORES
  - E - OFFICE AREA
  - F - MACHINE SHOP
  - G - PAINT AREA



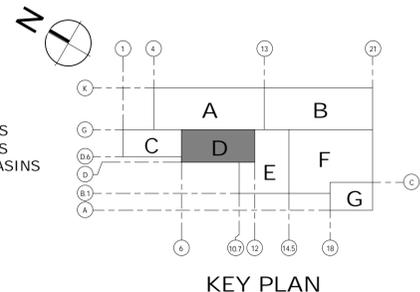
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:01 PM			DESIGNER/DRAFTER: <b>CPS/JFC</b> CHECKED BY: <b>EVD</b> SCALE: 1/8" = 1'-0"	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	SIGNATURE/ BLOCK: PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b> DRAWING TITLE: <b>FOUNDATION PART PLAN C</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-103</b> SHEET NO. <b>07.18</b>
REV.	DATE	REVISION DESCRIPTION					



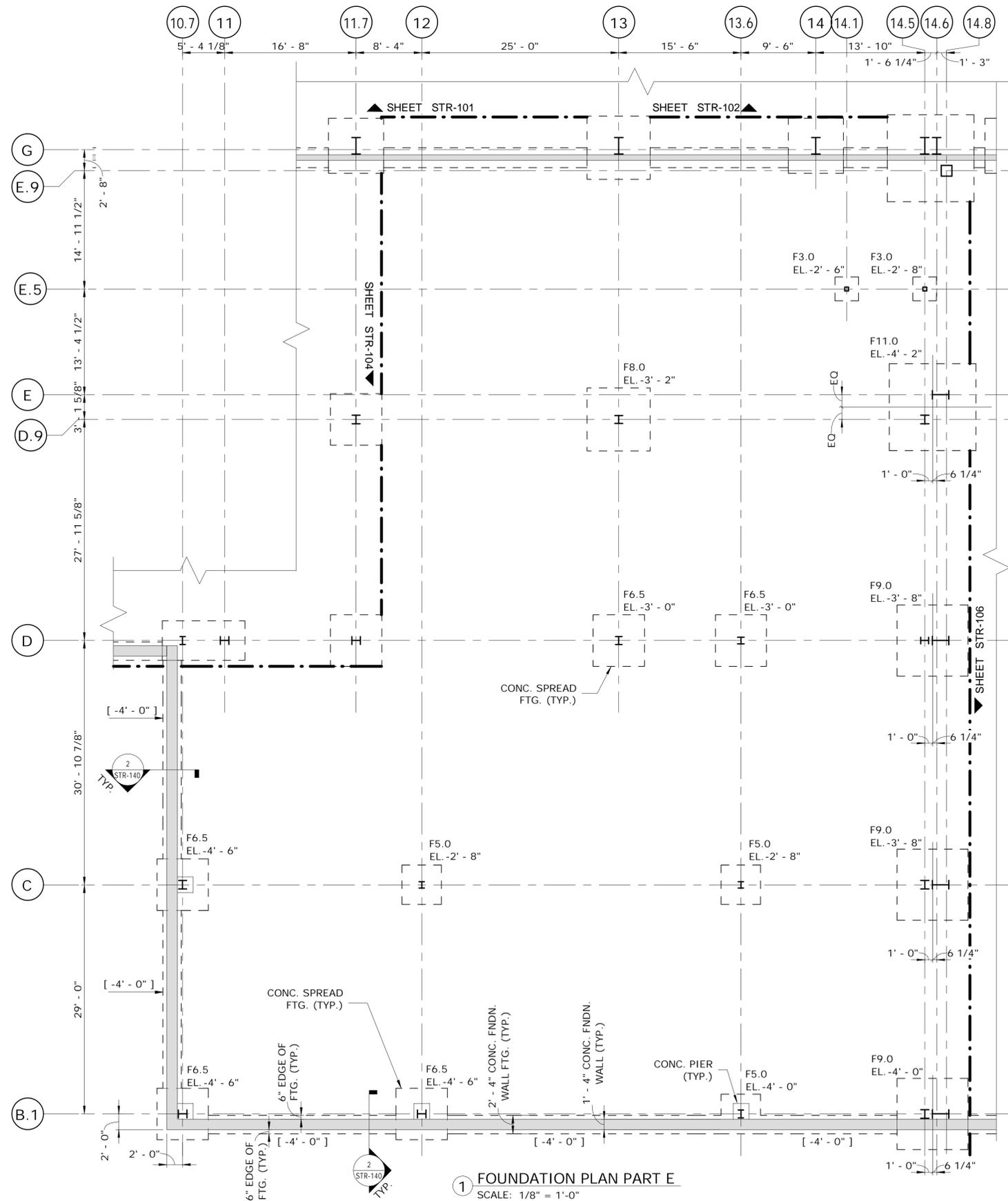
1 FOUNDATION PLAN PART D  
SCALE: 1/8" = 1'-0"

- NOTES:
- FOR CONCRETE GENERAL NOTES AND TYPICAL DETAILS, REFER TO DRAWINGS STR-002 THROUGH STR-013.
  - SEE DRAWING STR-143 FOR PIER SCHEDULE AND PIER DETAILS.
  - BOTTOM OF ALL EXTERIOR FOOTING ELEVATIONS SHALL BE AT 4'-0" MIN. BELOW FINISH GRADE, UNLESS NOTED OTHERWISE.
  - SEE DRAWING STR-100 FOR SPREAD FOOTING SCHEDULE.

- PARTIAL PLAN LEGEND:
- A - NORTH REPAIR BAYS
  - B - SOUTH REPAIR BAYS
  - C - LUBE AND WASH BASINS
  - D - STORES
  - E - OFFICE AREA
  - F - MACHINE SHOP
  - G - PAINT AREA

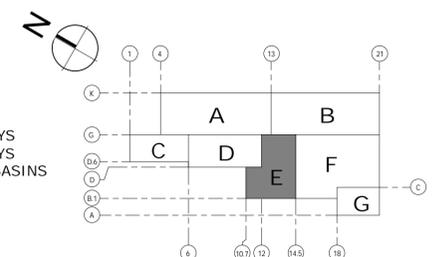


REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:02 PM	DESIGNER/DRAFTER: <b>CPS/JFC</b>	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE:  <b>REPAIR FACILITY</b>	TOWN:  <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b>
					CHECKED BY: <b>EVD</b>					DRAWING TITLE: <b>FOUNDATION PART PLAN D</b>
					SCALE: 1/8" = 1'-0"	Filename: C:\Revit 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace				SHEET NO. <b>07.19</b>



- NOTES:**
1. FOR CONCRETE GENERAL NOTES AND TYPICAL DETAILS, REFER TO DRAWINGS STR-002 THROUGH STR-013.
  2. SEE DRAWING STR-143 FOR PIER SCHEDULE AND PIER DETAILS.
  3. BOTTOM OF ALL EXTERIOR FOOTING ELEVATIONS SHALL BE AT 4'-0" MIN. BELOW FINISH GRADE, UNLESS NOTED OTHERWISE.
  4. SEE DRAWING STR-100 FOR SPREAD FOOTING SCHEDULE.

- PARTIAL PLAN LEGEND:**
- A - NORTH REPAIR BAYS
  - B - SOUTH REPAIR BAYS
  - C - LUBE AND WASH BASINS
  - D - STORES
  - E - OFFICE AREA
  - F - MACHINE SHOP
  - G - PAINT AREA



**1 FOUNDATION PLAN PART E**  
SCALE: 1/8" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/23/2014 3:05:02 PM

DESIGNER/DRAFTER:  
**CPS/JFC**

CHECKED BY:  
**EVD**

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

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

Filename: C:\Revit1 2014\STRUCT\_CT\_DOT\_Rocky Hill Repair Facility\_Central Replace

SIGNATURE/  
BLOCK:

Kleinfelder  
500 Enterprise Drive  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

TOWN:  
**ROCKY HILL**

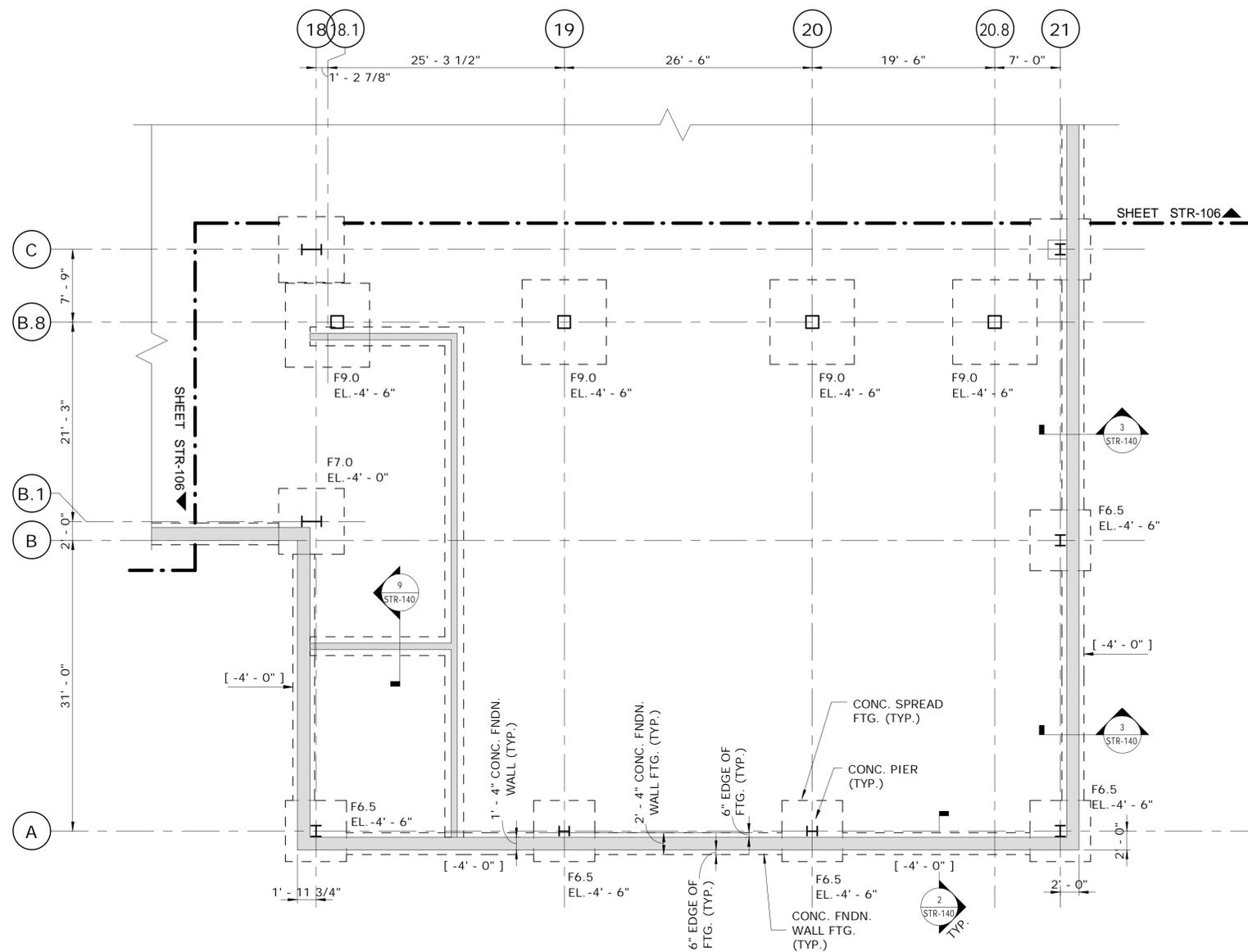
DRAWING TITLE:  
**FOUNDATION PART PLAN E**

PROJECT NO.  
**118-167**

DRAWING NO.  
**STR-105**

SHEET NO.  
**07.20**



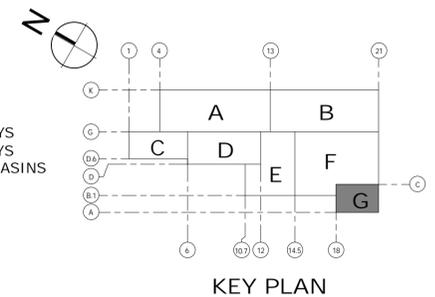


**1 FOUNDATION PLAN PART G**  
SCALE: 1/8" = 1'-0"

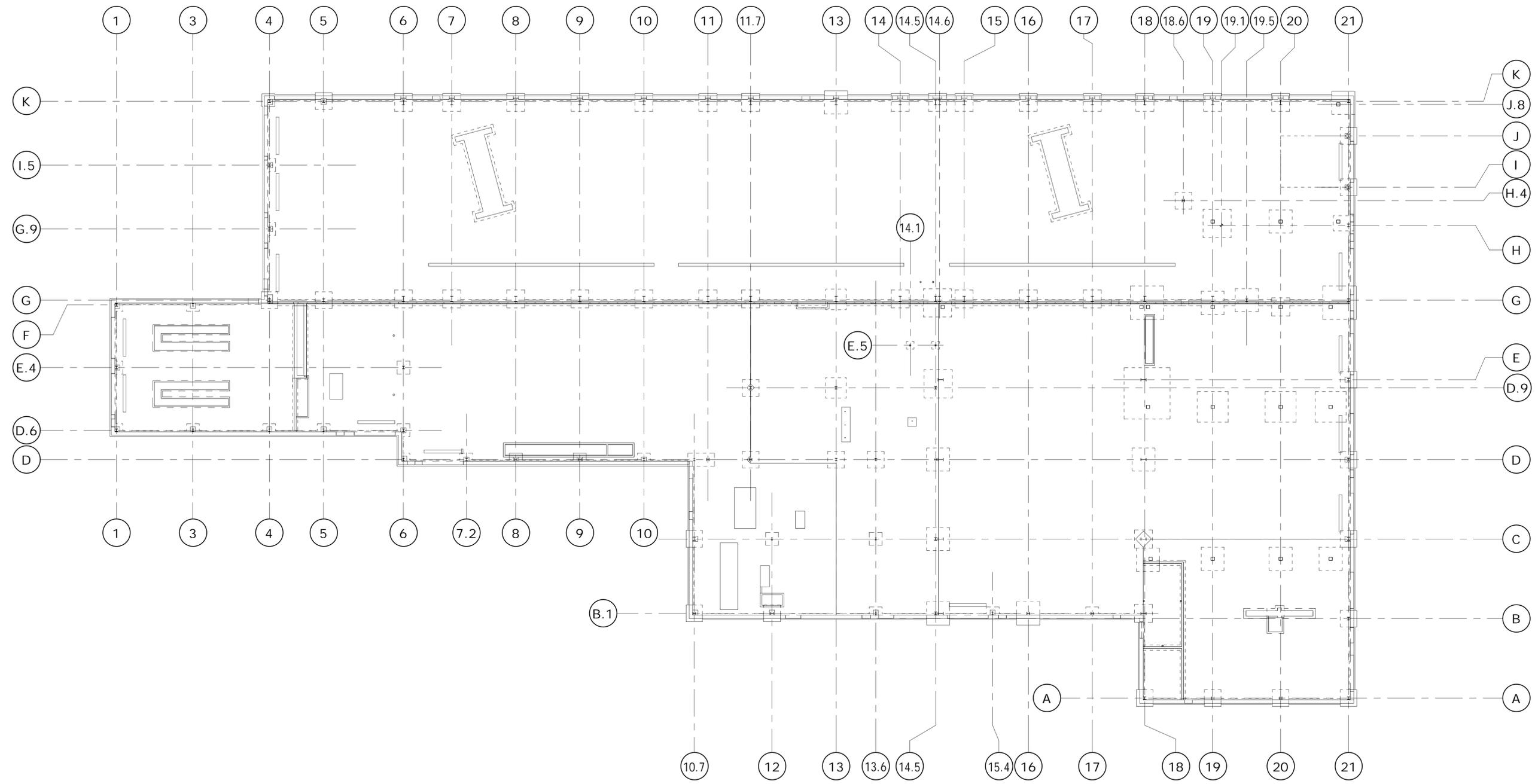
- NOTES:**
- FOR CONCRETE GENERAL NOTES AND TYPICAL DETAILS, REFER TO DRAWINGS STR-002 THROUGH STR-013.
  - SEE DRAWING STR-143 FOR PIER SCHEDULE AND PIER DETAILS.
  - BOTTOM OF ALL EXTERIOR FOOTING ELEVATIONS SHALL BE AT 4'-0" MIN. BELOW FINISH GRADE, UNLESS NOTED OTHERWISE.
  - SEE DRAWING STR-100 FOR SPREAD FOOTING SCHEDULE.

**PARTIAL PLAN LEGEND:**

- A - NORTH REPAIR BAYS
- B - SOUTH REPAIR BAYS
- C - LUBE AND WASH BASINS
- D - STORES
- E - OFFICE AREA
- F - MACHINE SHOP
- G - PAINT AREA



THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:04 PM			DESIGNER/DRAFTER: <b>CPS/JFC</b> CHECKED BY: <b>EVD</b> SCALE: 1/8" = 1'-0"	<b>STATE OF CONNECTICUT</b> DEPARTMENT OF TRANSPORTATION File name: C:\Revit1 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b> DRAWING TITLE: <b>FOUNDATION PART PLAN G</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-107</b> SHEET NO. <b>07.22</b>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.					

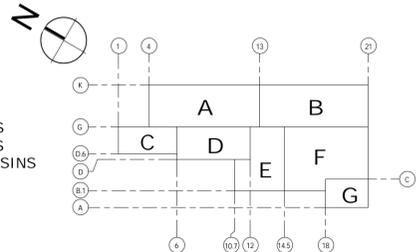


1 OVERALL SLAB PLAN  
SCALE: 3/64" = 1'-0"

**GENERAL NOTES:**  
 1. SEE SHEET ENV-001 FOR UNDERSLAB VENTING SYSTEM.  
 2. SEE SHEET ARC-006 & ARC-007 FOR EQUIPMENT SCHEDULE.  
 3. THICKENED SLABS SHALL BE PROVIDED UNDER ALL CMU PARTITION WALLS PER TYPICAL DETAILS ON DRAWING STR-007, UNLESS SPECIFICALLY DETAILED OTHERWISE.

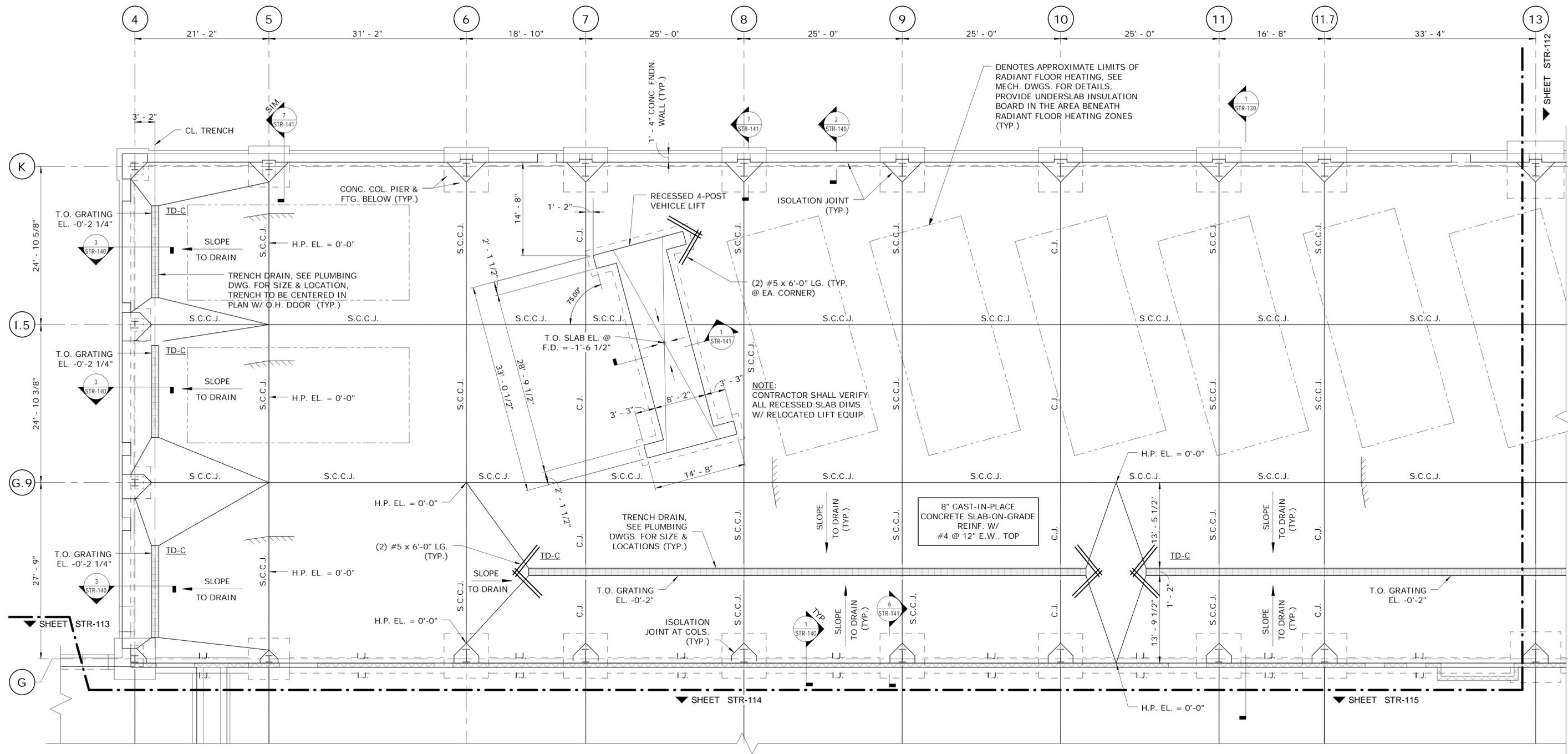
**NOTE: OVERALL PLANS ARE PROVIDED AS A GENERAL OVERVIEW OF THE BUILDING'S FLOOR SLABS. REFER TO INDIVIDUAL PART PLANS FOR GREATER DETAIL.**  
 PART "A": STR-111  
 PART "B": STR-112  
 PART "C": STR-113  
 PART "D": STR-114  
 PART "E": STR-115  
 PART "F": STR-116  
 PART "G": STR-117

- PARTIAL PLAN LEGEND:**
- A - NORTH REPAIR BAYS
  - B - SOUTH REPAIR BAYS
  - C - LUBE AND WASH BASINS
  - D - STORES
  - E - OFFICE AREA
  - F - MACHINE SHOP
  - G - PAINT AREA



KEY PLAN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:05 PM	DESIGNER/DRAFTER: <b>CPS/JFC</b>	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE:  <b>REPAIR FACILITY</b>	TOWN:  <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b>
					CHECKED BY: <b>EVD</b>					DRAWING TITLE: <b>OVERALL SLAB PLAN</b>
					SCALE: As indicated	Filename: C:\Revit 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace			SHEET NO. <b>07.23</b>	

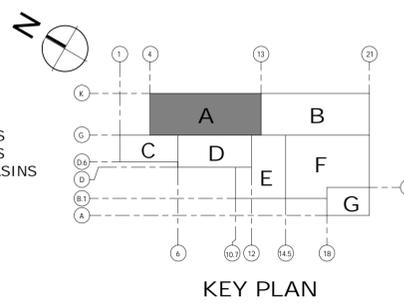


1 SLAB PLAN PART A  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**  
 1. SEE SHEET ENV-001 FOR UNDERSLAB VENTING SYSTEM.  
 2. SEE SHEET ARC-006 & ARC-007 FOR EQUIPMENT SCHEDULE.  
 3. THICKENED SLABS SHALL BE PROVIDED UNDER ALL CMU PARTITION WALLS PER TYPICAL DETAILS ON DRAWING STR-007, UNLESS SPECIFICALLY DETAILED OTHERWISE.

- NOTES:**
- SEE DRAWINGS STR-002, STR-003 & STR-004 FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS.
  - THE FINISHED FLOOR ELEVATION OF 0'-0" CORRESPONDS TO ELEVATION 140'-0".
  - SEE DRAWING STR-005 FOR DETAILS OF TYPICAL SLAB CONSTRUCTION JOINT (C.J.), ISOLATION JOINT (I.J.), AND CONTRACTION JOINT (S.C.C.J.).
  - COORDINATE WITH PLUMBING DRAWINGS FOR FLOOR DRAIN (F.D.) LAYOUT LOCATIONS.
  - COORDINATE CONCRETE EQUIPMENT PAD SIZES AND LOCATIONS WITH MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT REQUIREMENTS.
  - D4 - INDICATES SPAN OF 2 1/2" METAL BAR GRATING

- PARTIAL PLAN LEGEND:**
- A - NORTH REPAIR BAYS
  - B - SOUTH REPAIR BAYS
  - C - LUBE AND WASH BASINS
  - D - STORES
  - E - OFFICE AREA
  - F - MACHINE SHOP
  - G - PAINT AREA



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER: CPS/JFC  
 CHECKED BY: EVD  
 SCALE: 1/8" = 1'-0"

STATE OF CONNECTICUT  
 DEPARTMENT OF TRANSPORTATION

Plotted Date: 10/23/2014 3:05:06 PM

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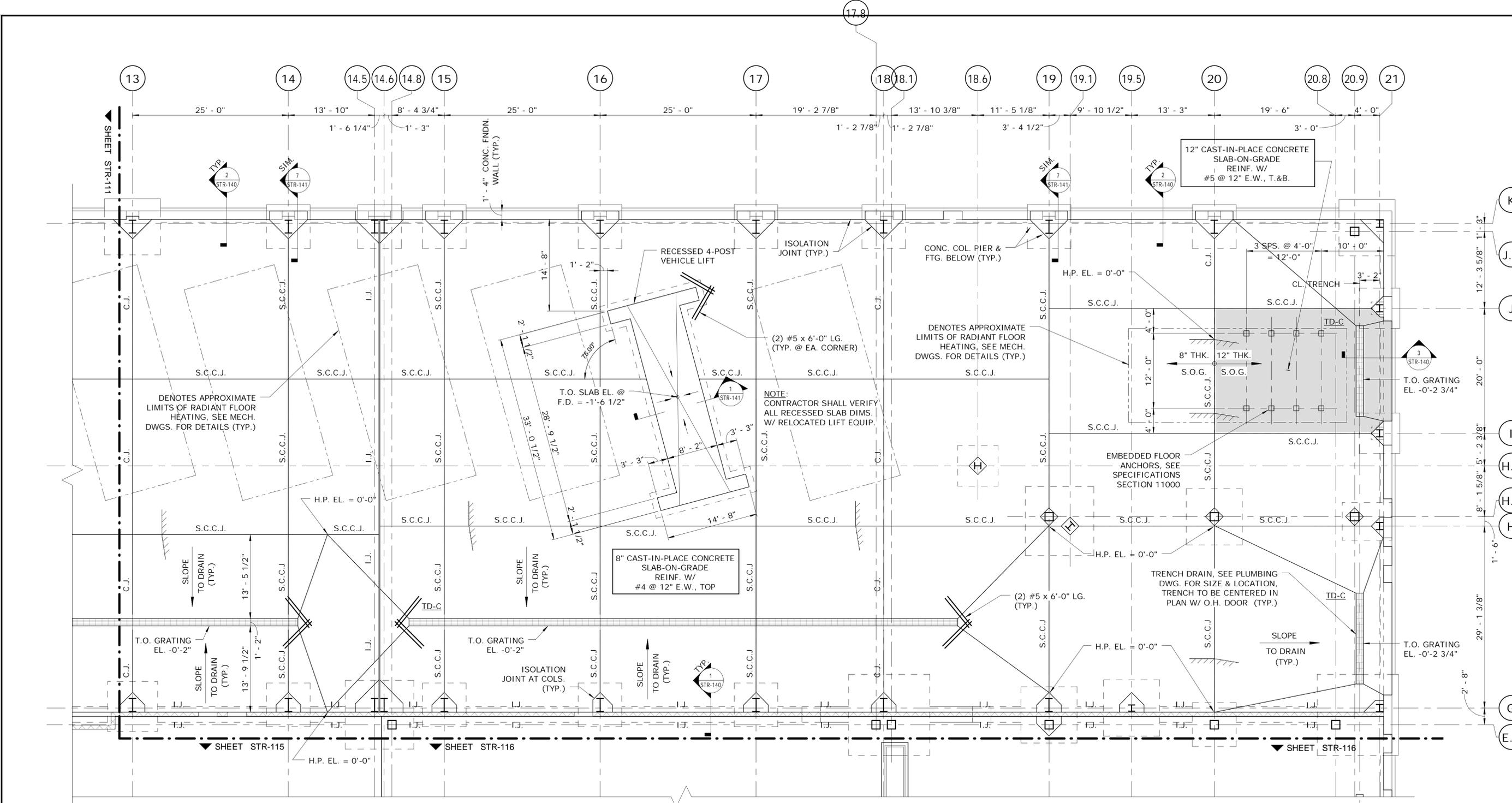
Kleinfelder  
 500 Enterprise Drive  
 Suite 4B  
 Rocky Hill, CT 06067

PROJECT TITLE: REPAIR FACILITY

TOWN: ROCKY HILL

DRAWING TITLE: SLAB PART PLAN A

PROJECT NO. 118-167  
 DRAWING NO. STR-111  
 SHEET NO. 07.24

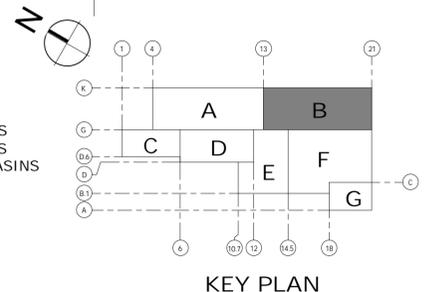


1 SLAB PLAN PART B  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**  
 1. SEE SHEET ENV-001 FOR UNDERSLAB VENTING SYSTEM.  
 2. SEE SHEET ARC-006 & ARC-007 FOR EQUIPMENT SCHEDULE.  
 3. THICKENED SLABS SHALL BE PROVIDED UNDER ALL CMU PARTITION WALLS PER TYPICAL DETAILS ON DRAWING STR-007, UNLESS SPECIFICALLY DETAILED OTHERWISE.

- NOTES:**
- SEE DRAWINGS STR-002, STR-003 & STR-004 FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS.
  - THE FINISHED FLOOR ELEVATION OF 0'-0" CORRESPONDS TO ELEVATION 140'-0".
  - SEE DRAWING STR-005 FOR DETAILS OF TYPICAL SLAB CONSTRUCTION JOINT (C.J.), ISOLATION JOINT (I.J.), AND CONTRACTION JOINT (S.C.C.J.).
  - COORDINATE WITH PLUMBING DRAWINGS FOR FLOOR DRAIN (F.D.) LAYOUT LOCATIONS.
  - COORDINATE CONCRETE EQUIPMENT PAD SIZES AND LOCATIONS WITH MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT REQUIREMENTS.
  - D4 - INDICATES SPAN OF 2 1/2" METAL BAR GRATING

- PARTIAL PLAN LEGEND:**
- A - NORTH REPAIR BAYS
  - B - SOUTH REPAIR BAYS
  - C - LUBE AND WASH BASINS
  - D - STORES
  - E - OFFICE AREA
  - F - MACHINE SHOP
  - G - PAINT AREA



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER:  
**CPS/JFC**

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**EVD**

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

Plotted Date: 10/23/2014 3:05:07 PM

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

Signature/Block: [Blank]

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PROJECT TITLE:  
**REPAIR FACILITY**

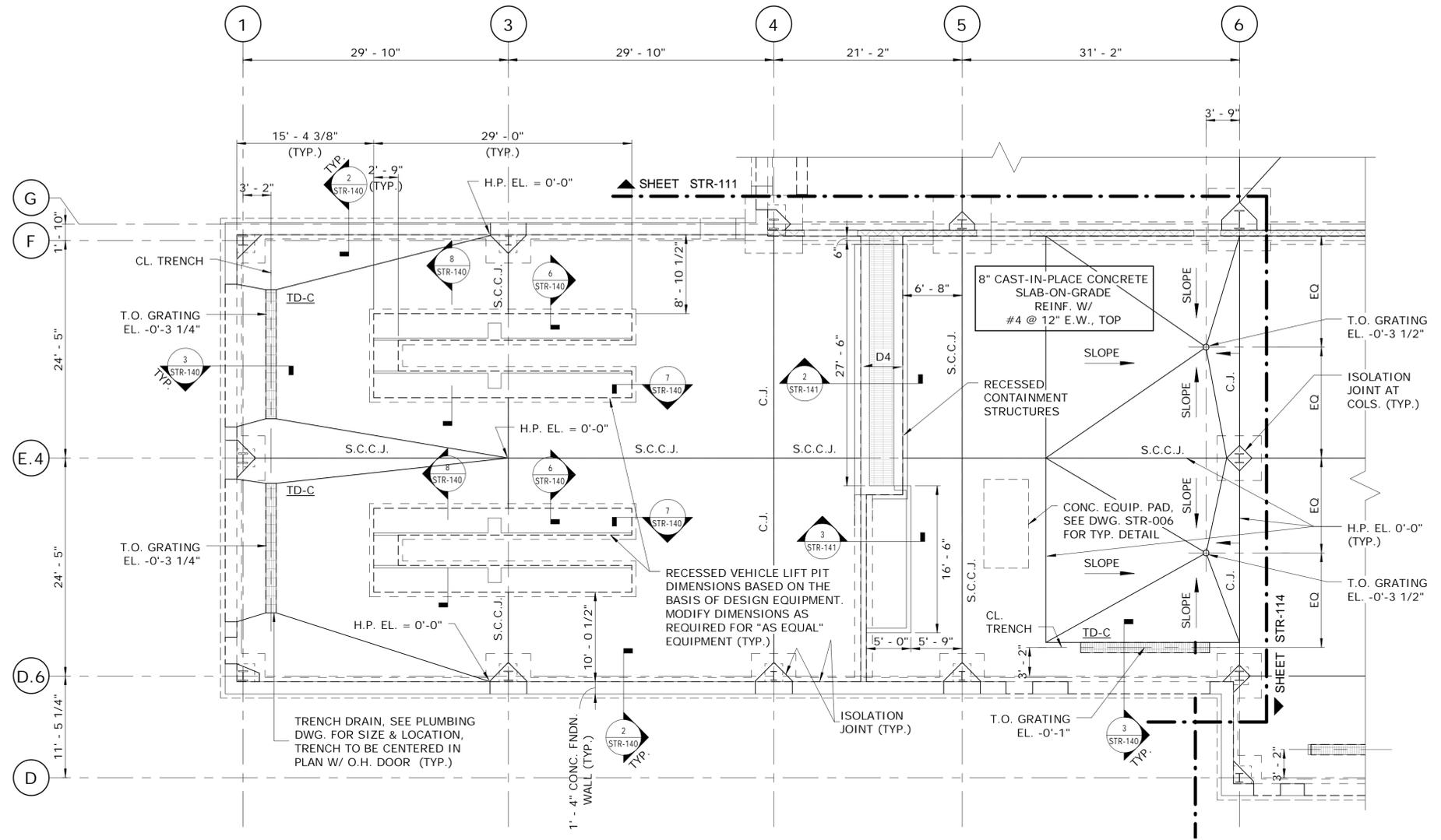
TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**SLAB PART PLAN B**

PROJECT NO.  
**118-167**

DRAWING NO.  
**STR-112**

SHEET NO.  
**07.25**

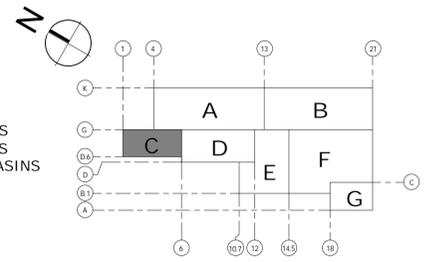


1 SLAB PLAN PART C  
SCALE: 1/8" = 1'-0"

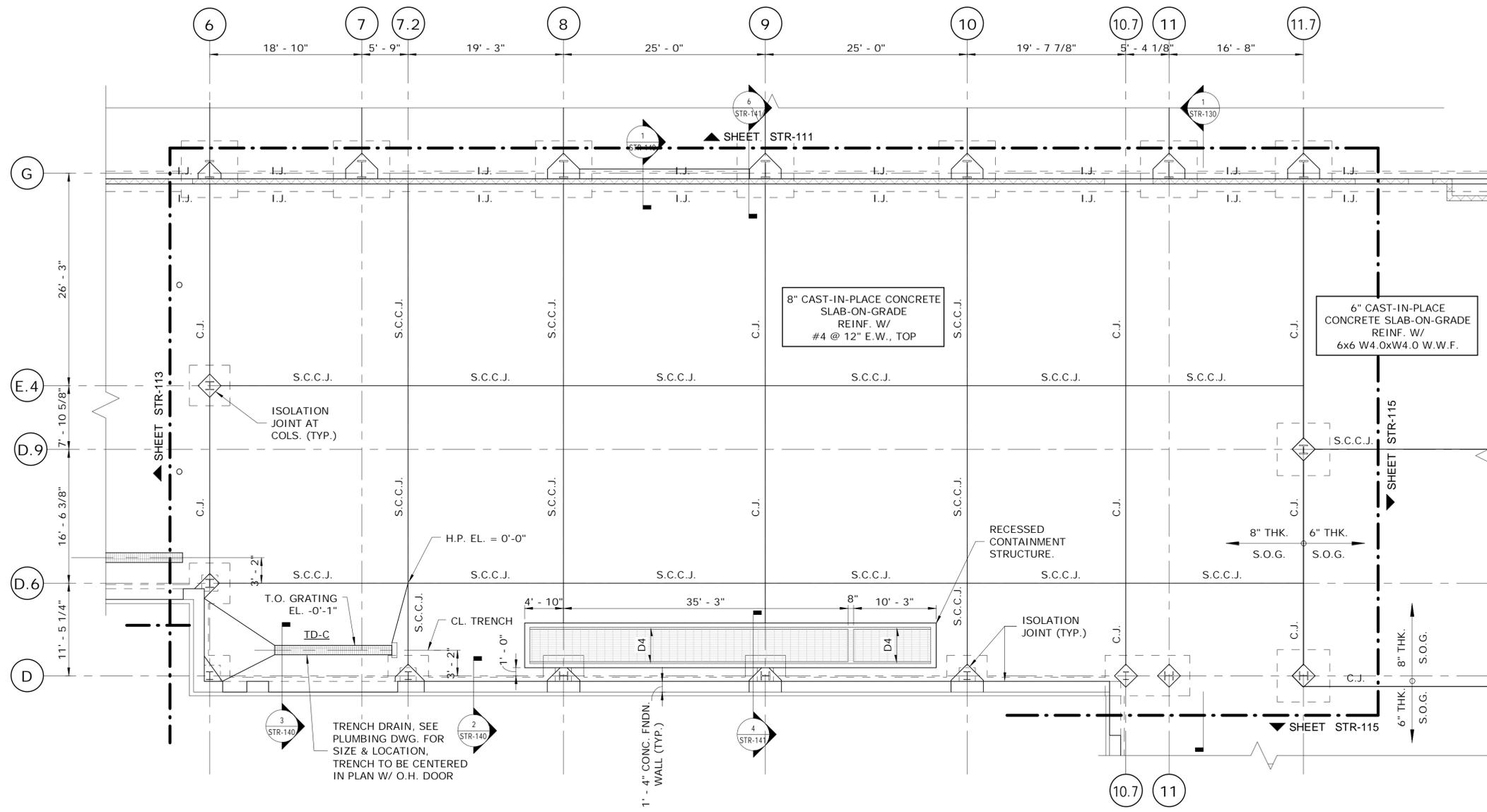
**GENERAL NOTES:**  
 1. SEE SHEET ENV-001 FOR UNDERSLAB VENTING SYSTEM.  
 2. SEE SHEET ARC-006 & ARC-007 FOR EQUIPMENT SCHEDULE.  
 3. THICKENED SLABS SHALL BE PROVIDED UNDER ALL CMU PARTITION WALLS PER TYPICAL DETAILS ON DRAWING STR-007, UNLESS SPECIFICALLY DETAILED OTHERWISE.

- NOTES:**
- SEE DRAWINGS STR-002, STR-003 & STR-004 FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS.
  - THE FINISHED FLOOR ELEVATION OF 0'-0" CORRESPONDS TO ELEVATION 140'-0".
  - SEE DRAWING STR-005 FOR DETAILS OF TYPICAL SLAB CONSTRUCTION JOINT (C.J.), ISOLATION JOINT (I.J.), AND CONTRACTION JOINT (S.C.C.J.).
  - COORDINATE WITH PLUMBING DRAWINGS FOR FLOOR DRAIN (F.D.) LAYOUT LOCATIONS.
  - COORDINATE CONCRETE EQUIPMENT PAD SIZES AND LOCATIONS WITH MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT REQUIREMENTS.
  - D4 - INDICATES SPAN OF 2 1/2" METAL BAR GRATING

- PARTIAL PLAN LEGEND:**
- A - NORTH REPAIR BAYS
  - B - SOUTH REPAIR BAYS
  - C - LUBE AND WASH BASINS
  - D - STORES
  - E - OFFICE AREA
  - F - MACHINE SHOP
  - G - PAINT AREA



THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:08 PM			DESIGNER/DRAFTER: <b>CPS/JFC</b> CHECKED BY: <b>EVD</b> SCALE: 1/8" = 1'-0"	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Signature/Block: [Signature]	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b> DRAWING TITLE: <b>SLAB PART PLAN C</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-113</b> SHEET NO. <b>07.26</b>
REV.	DATE	REVISION DESCRIPTION					

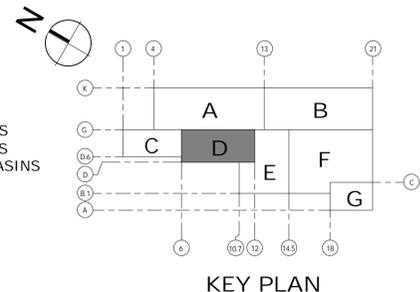


1 SLAB PLAN PART D  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**  
 1. SEE SHEET ENV-001 FOR UNDERSLAB VENTING SYSTEM.  
 2. SEE SHEET ARC-006 & ARC-007 FOR EQUIPMENT SCHEDULE.  
 3. THICKENED SLABS SHALL BE PROVIDED UNDER ALL CMU PARTITION WALLS PER TYPICAL DETAILS ON DRAWING STR-007, UNLESS SPECIFICALLY DETAILED OTHERWISE.

- NOTES:**
- SEE DRAWINGS STR-002, STR-003 & STR-004 FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS.
  - THE FINISHED FLOOR ELEVATION OF 0'-0" CORRESPONDS TO ELEVATION 140'-0".
  - SEE DRAWING STR-005 FOR DETAILS OF TYPICAL SLAB CONSTRUCTION JOINT (C.J.), ISOLATION JOINT (I.J.), AND CONTRACTION JOINT (S.C.C.J.).
  - COORDINATE WITH PLUMBING DRAWINGS FOR FLOOR DRAIN (F.D.) LAYOUT LOCATIONS.
  - COORDINATE CONCRETE EQUIPMENT PAD SIZES AND LOCATIONS WITH MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT REQUIREMENTS.
  - D<sub>4</sub> - INDICATES SPAN OF 2 1/2" METAL BAR GRATING

- PARTIAL PLAN LEGEND:**
- A - NORTH REPAIR BAYS
  - B - SOUTH REPAIR BAYS
  - C - LUBE AND WASH BASINS
  - D - STORES
  - E - OFFICE AREA
  - F - MACHINE SHOP
  - G - PAINT AREA



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER:  
**CPS/JFC**

CHECKED BY:  
**EVD**

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

Plotted Date: 10/23/2014 3:05:09 PM

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

SIGNATURE/  
BLOCK:

Kleinfelder  
500 Enterprise Drive  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

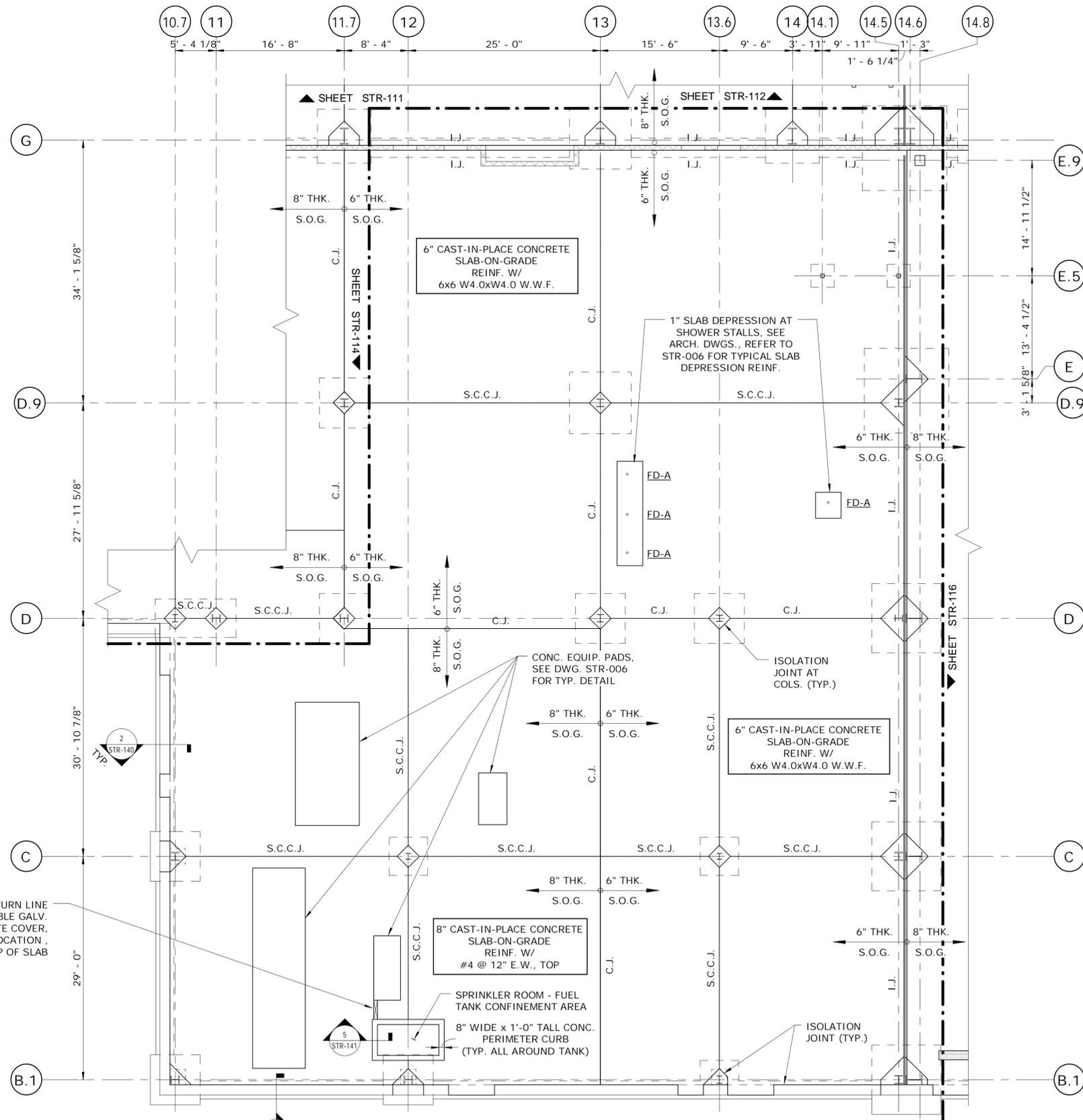
TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**SLAB PART PLAN D**

PROJECT NO.  
**118-167**

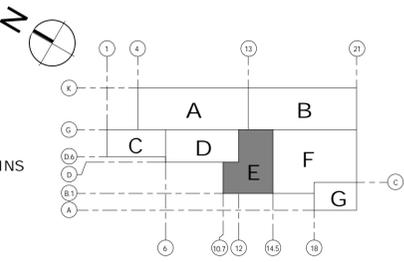
DRAWING NO.  
**STR-114**

SHEET NO.  
**07.27**



**GENERAL NOTES:**  
 1. SEE SHEET ENV-001 FOR UNDERSLAB VENTING SYSTEM.  
 2. SEE SHEET ARC-006 & ARC-007 FOR EQUIPMENT SCHEDULE.  
 3. THICKENED SLABS SHALL BE PROVIDED UNDER ALL CMU PARTITION WALLS PER TYPICAL DETAILS ON DRAWING STR-007, UNLESS SPECIFICALLY DETAILED OTHERWISE.

- NOTES:**
- SEE DRAWINGS STR-002, STR-003 & STR-004 FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS.
  - THE FINISHED FLOOR ELEVATION OF 0'-0" CORRESPONDS TO ELEVATION 140'-0".
  - SEE DRAWING STR-005 FOR DETAILS OF TYPICAL SLAB CONSTRUCTION JOINT (C.J.), ISOLATION JOINT (I.J.), AND CONTRACTION JOINT (S.C.C.J.).
  - COORDINATE WITH PLUMBING DRAWINGS FOR FLOOR DRAIN (F.D.) LAYOUT LOCATIONS.
  - COORDINATE CONCRETE EQUIPMENT PAD SIZES AND LOCATIONS WITH MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT REQUIREMENTS.
  - D4 - INDICATES SPAN OF 2 1/2" METAL BAR GRATING



- PARTIAL PLAN LEGEND:**
- A - NORTH REPAIR BAYS
  - B - SOUTH REPAIR BAYS
  - C - LUBE AND WASH BASINS
  - D - STORES
  - E - OFFICE AREA
  - F - MACHINE SHOP
  - G - PAINT AREA

**1 SLAB PLAN PART E**  
 SCALE: 1/8" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER: **CPS/JFC**  
 CHECKED BY: **EVD**  
 SCALE: 1/8" = 1'-0"

STATE OF CONNECTICUT  
 DEPARTMENT OF TRANSPORTATION

Plotted Date: 10/23/2014 3:05:10 PM

SIGNATURE/BLOCK:

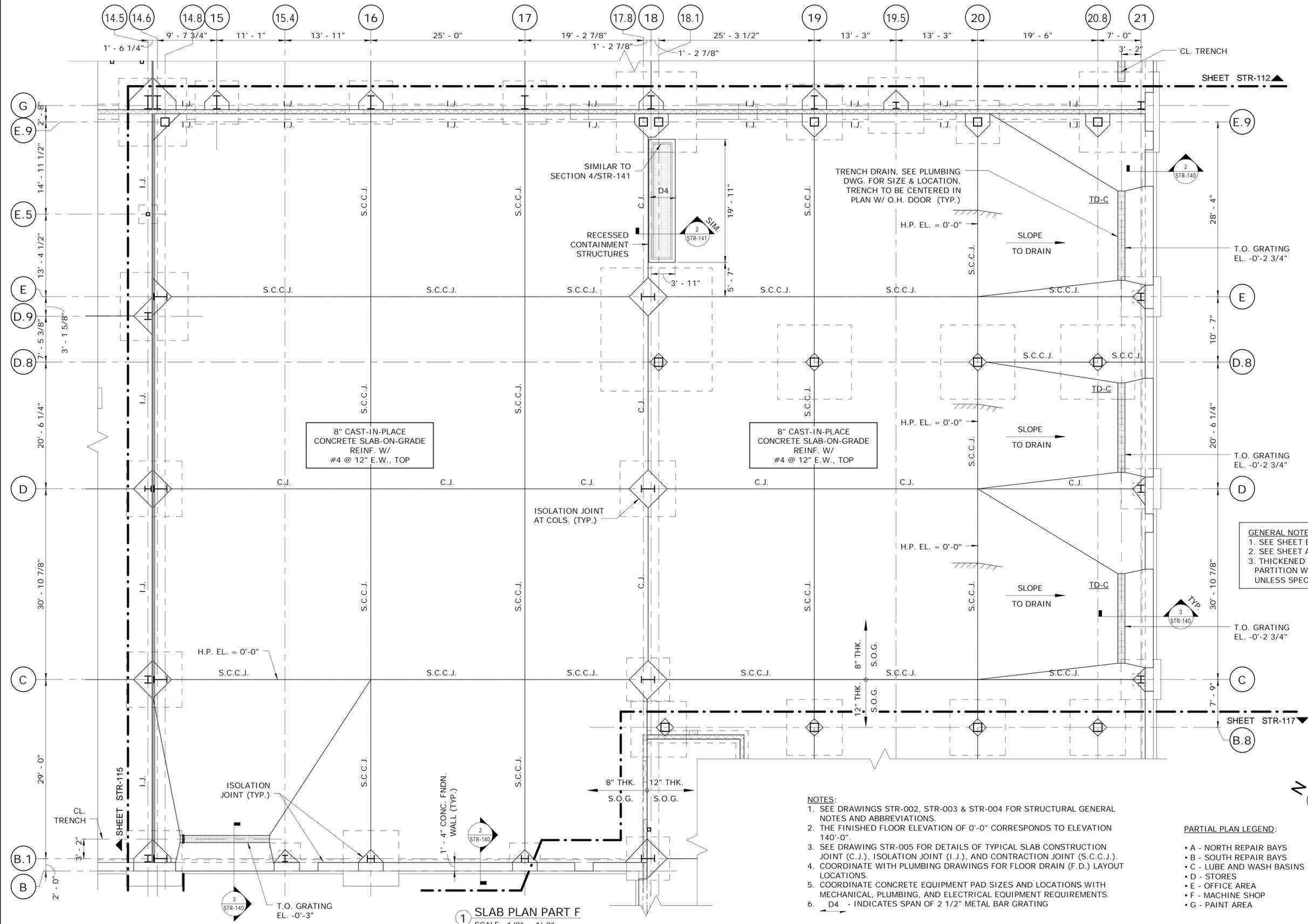
Kleinfelder  
 500 Enterprise Drive  
 Suite 4B  
 Rocky Hill, CT 06067

PROJECT TITLE: **REPAIR FACILITY**

TOWN: **ROCKY HILL**

DRAWING TITLE: **SLAB PART PLAN E**

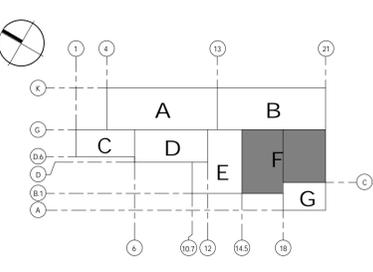
PROJECT NO. **118-167**  
 DRAWING NO. **STR-115**  
 SHEET NO. **07.28**



**GENERAL NOTES:**  
 1. SEE SHEET ENV-001 FOR UNDERSLAB VENTING SYSTEM.  
 2. SEE SHEET ARC-006 & ARC-007 FOR EQUIPMENT SCHEDULE.  
 3. THICKENED SLABS SHALL BE PROVIDED UNDER ALL CMU PARTITION WALLS PER TYPICAL DETAILS ON DRAWING STR-007, UNLESS SPECIFICALLY DETAILED OTHERWISE.

- NOTES:**
- SEE DRAWINGS STR-002, STR-003 & STR-004 FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS.
  - THE FINISHED FLOOR ELEVATION OF 0'-0" CORRESPONDS TO ELEVATION 140'-0".
  - SEE DRAWING STR-005 FOR DETAILS OF TYPICAL SLAB CONSTRUCTION JOINT (C.J.), ISOLATION JOINT (I.J.), AND CONTRACTION JOINT (S.C.C.J.).
  - COORDINATE WITH PLUMBING DRAWINGS FOR FLOOR DRAIN (F.D.) LAYOUT LOCATIONS.
  - COORDINATE CONCRETE EQUIPMENT PAD SIZES AND LOCATIONS WITH MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT REQUIREMENTS.
  - D4 - INDICATES SPAN OF 2 1/2" METAL BAR GRATING

- PARTIAL PLAN LEGEND:**
- A - NORTH REPAIR BAYS
  - B - SOUTH REPAIR BAYS
  - C - LUBE AND WASH BASINS
  - D - STORES
  - E - OFFICE AREA
  - F - MACHINE SHOP
  - G - PAINT AREA



**1 SLAB PLAN PART F**  
 SCALE: 1/8" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER: **CPS/JFC**  
 CHECKED BY: **EVD**  
 SCALE: 1/8" = 1'-0"

STATE OF CONNECTICUT  
 DEPARTMENT OF TRANSPORTATION

Plotted Date: 10/23/2014 3:05:11 PM

SIGNATURE/BLOCK:

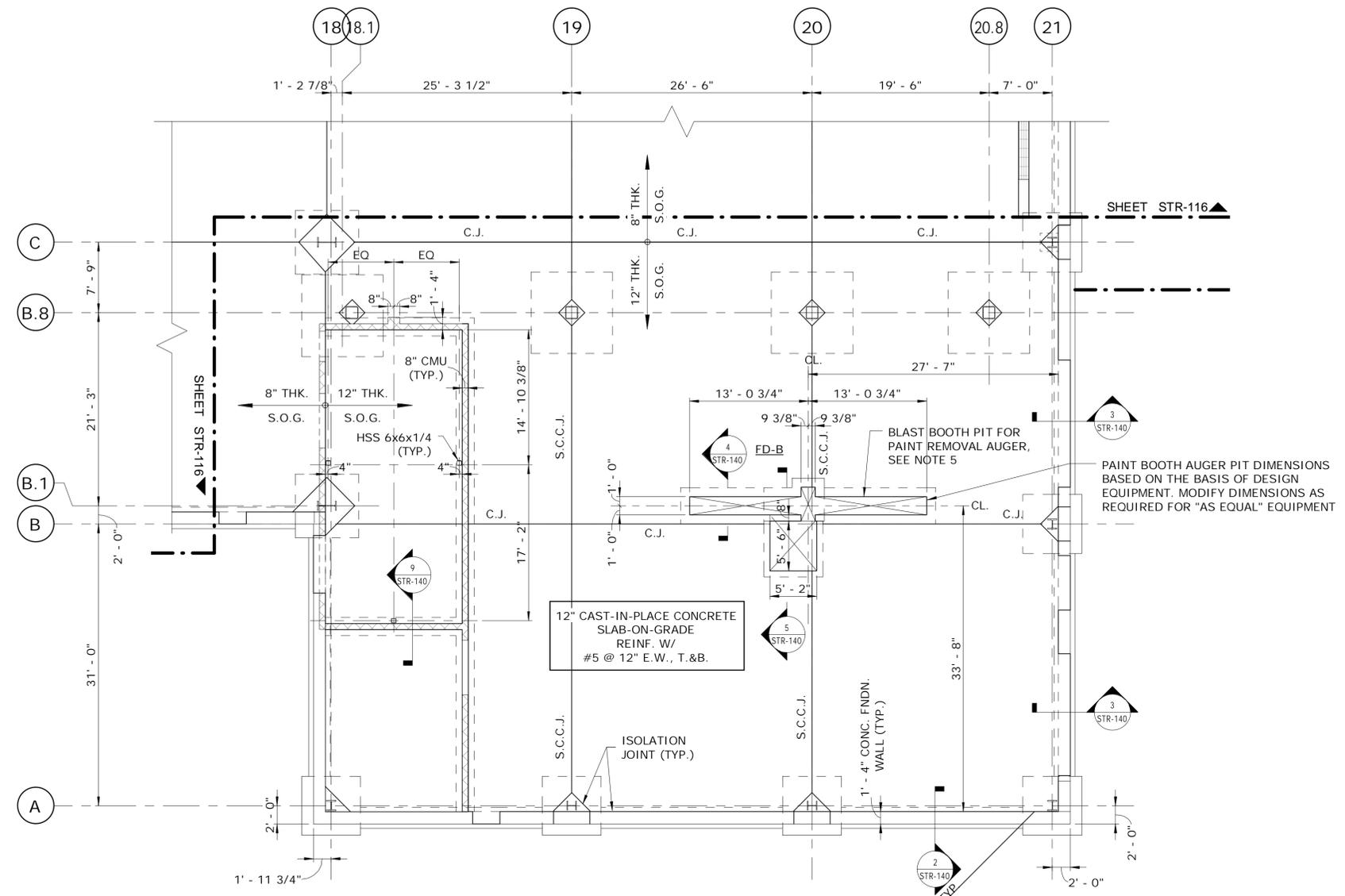
Kleinfelder  
 500 Enterprise Drive  
 Suite 4B  
 Rocky Hill, CT 06067

PROJECT TITLE: **REPAIR FACILITY**

TOWN: **ROCKY HILL**

DRAWING TITLE: **SLAB PART PLAN F**

PROJECT NO. **118-167**  
 DRAWING NO. **STR-116**  
 SHEET NO. **07.29**



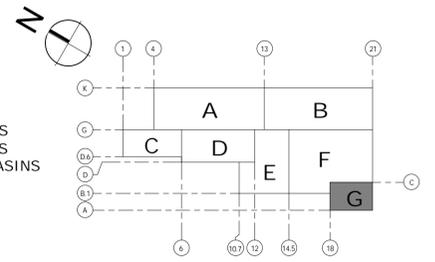
**1** SLAB PLAN PART G  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES:**  
 1. SEE SHEET ENV-001 FOR UNDERSLAB VENTING SYSTEM.  
 2. SEE SHEET ARC-006 & ARC-007 FOR EQUIPMENT SCHEDULE.  
 3. THICKENED SLABS SHALL BE PROVIDED UNDER ALL CMU PARTITION WALLS PER TYPICAL DETAILS ON DRAWING STR-007, UNLESS SPECIFICALLY DETAILED OTHERWISE.

- NOTES:**
- SEE DRAWINGS STR-002, STR-003 & STR-004 FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS.
  - THE FINISHED FLOOR ELEVATION OF 0'-0" CORRESPONDS TO ELEVATION 140'-0".
  - SEE DRAWING STR-005 FOR DETAILS OF TYPICAL SLAB CONSTRUCTION JOINT (C.J.), ISOLATION JOINT (I.J.), AND CONTRACTION JOINT (S.C.C.J.).
  - COORDINATE WITH PLUMBING DRAWINGS FOR FLOOR DRAIN (F.D.) LAYOUT LOCATIONS.
  - COORDINATE CONCRETE EQUIPMENT PAD SIZES AND LOCATIONS WITH MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT REQUIREMENTS.
  - D4 - INDICATES SPAN OF 2 1/2" METAL BAR GRATING

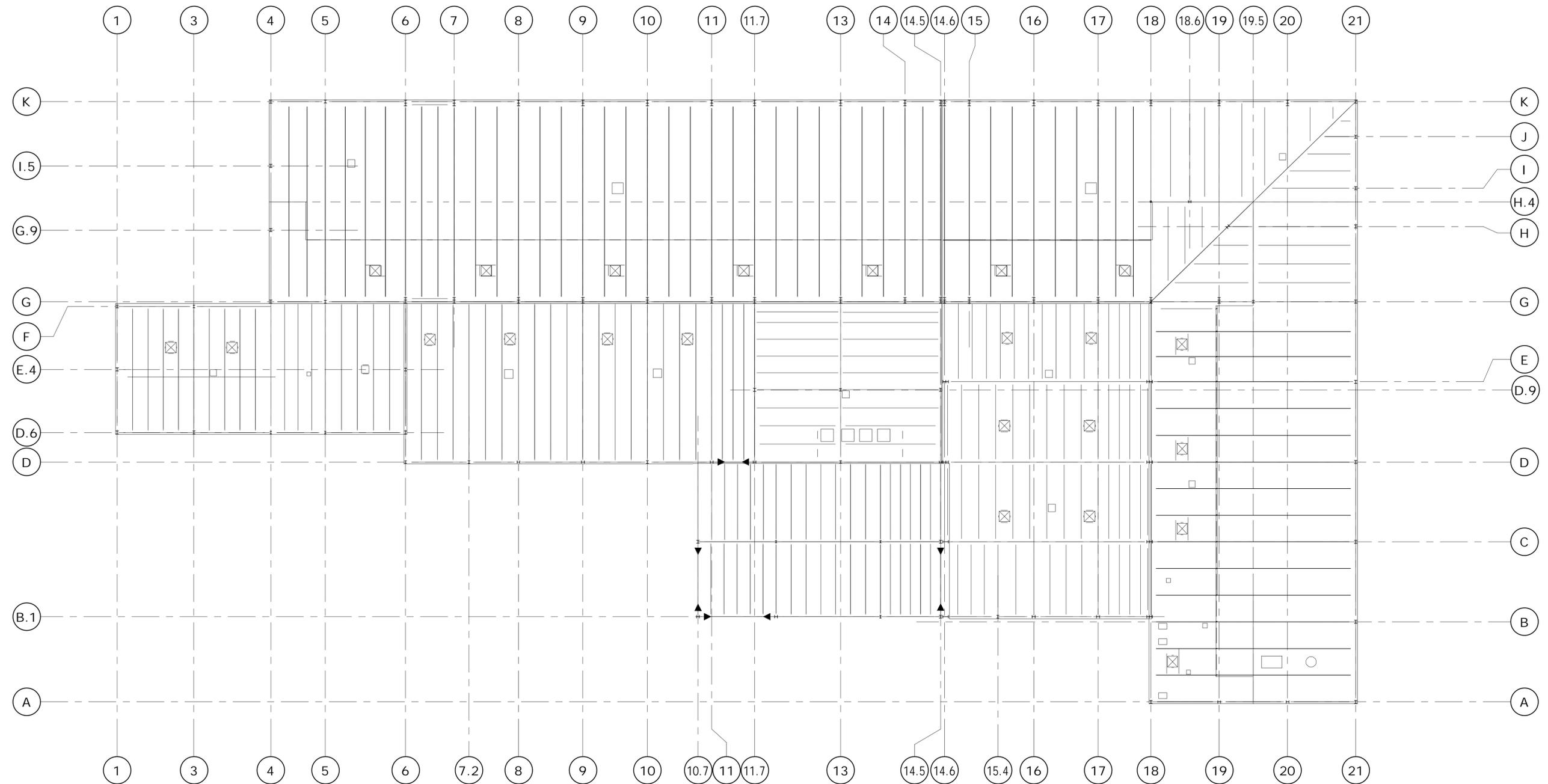
**PARTIAL PLAN LEGEND:**

- A - NORTH REPAIR BAYS
- B - SOUTH REPAIR BAYS
- C - LUBE AND WASH BASINS
- D - STORES
- E - OFFICE AREA
- F - MACHINE SHOP
- G - PAINT AREA



KEY PLAN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:12 PM	DESIGNER/DRAFTER: <b>CPS/JFC</b>	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE:  <b>REPAIR FACILITY</b>	TOWN:  <b>ROCKY HILL</b>	DRAWING TITLE: <b>SLAB PART PLAN G</b>	PROJECT NO. <b>118-167</b>
					CHECKED BY: <b>EVD</b>						SCALE: 1/8" = 1'-0"



1 OVERALL ROOF FRAMING PLAN  
SCALE: 3/64" = 1'-0"

**NOTES:**

- SEE STR-000 SERIES DRAWINGS FOR STRUCTURAL GENERAL NOTES, ABBREVIATIONS AND TYPICAL DETAILS.
- D1 - INDICATES SPAN OF 3" DEEP TYPE N, 18 GA., GALVANIZED STEEL ROOF DECK.
- D2 - INDICATES SPAN OF 1 1/2" DEEP, TYPE B, 18 GA., GALVANIZED STEEL ROOF DECK.
- "132LH560/350" - INDICATES STEEL OPEN WEB JOISTS.

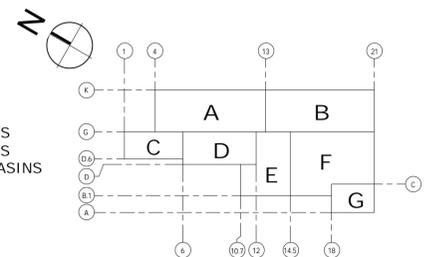


- THE BASIS OF DESIGN FOR ROOF DIAPHRAGM IS 1 1/2", 18 GA., TYPE B, G-90 GALV. ROOF DECK FOR D1 DECKS AND 3", 18 GA., TYPE N, G-90 GALV. ROOF DECK FOR D2 DECKS AS MANUFACTURED BY VULCRAFT. GC MAY SUBMIT PRODUCT ALTERNATE WITH CALCULATIONS FOR APPROVAL BY THE DESIGNER. THE FASTENING PATTERN SHALL BE:  
D1: FIELD=24/4, PERIMETER=24/4, CORNERS=24/4 w/(2) WELDS PER FLUTE  
D2: FIELD=36/4, PERIMETER=36/7, CORNERS=36/7 w/(2) WELDS PER FLUTE
- JOIST TOP AND BOTTOM CHORD BRIDGING SHALL BE PROVIDED PER SJI RECOMMENDATIONS.
- T.O.S. (U.N.O.) = SEE PART PLANS
- REFER TO STR-014 FOR SPECIAL JOIST DESIGN LOADS.
- C8 - INDICATES AN 8 INCH DEEP CHANNEL. REFER TO NOTE A FOR MORE INFORMATION.

**NOTE:** OVERALL PLANS ARE PROVIDED AS A GENERAL OVERVIEW OF THE BUILDING'S ROOF SYSTEMS. REFER TO INDIVIDUAL PART PLANS FOR GREATER DETAIL.  
PART "A": STR-121  
PART "B": STR-122  
PART "C": STR-123  
PART "D": STR-124  
PART "E": STR-125  
PART "F": STR-126  
PART "G": STR-127

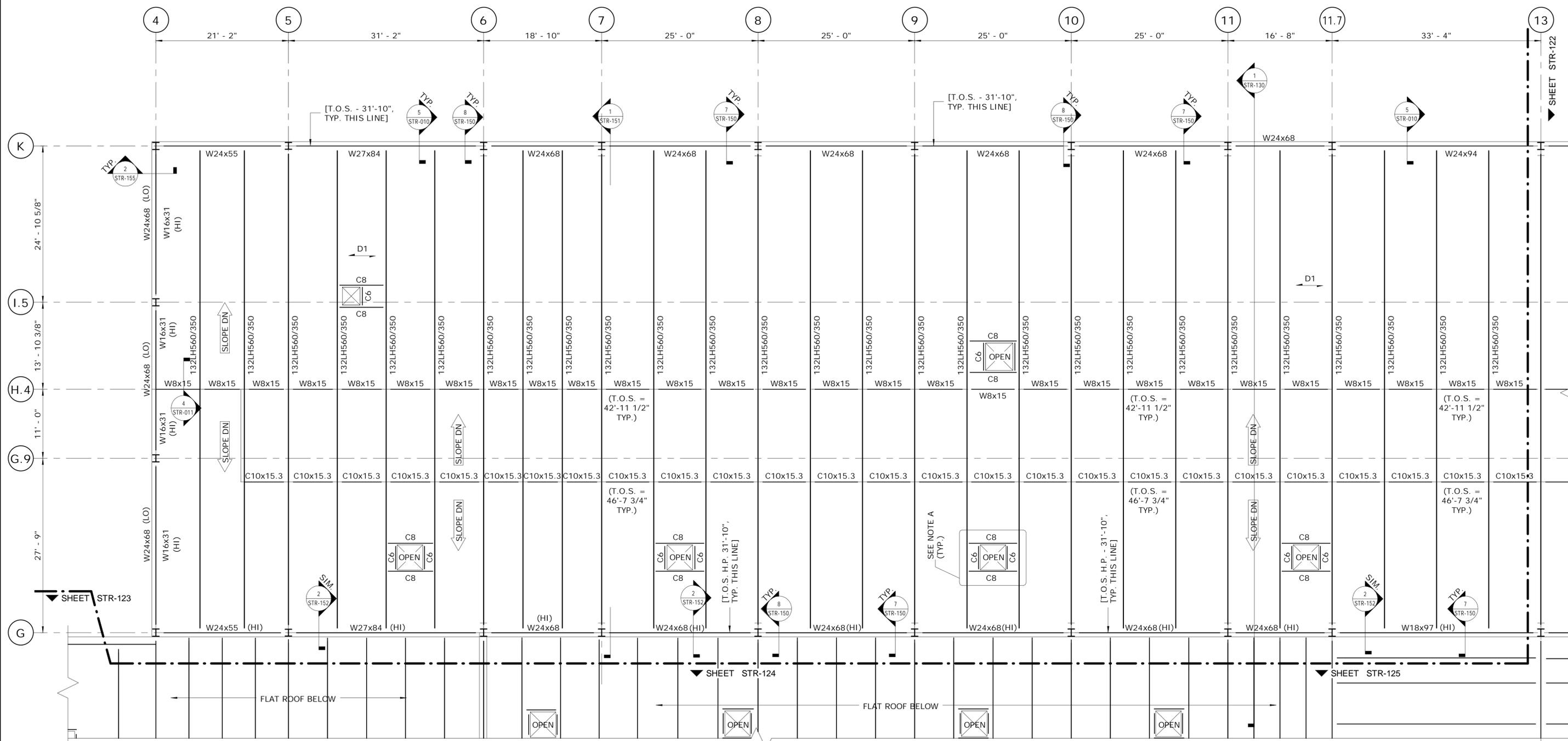
**PARTIAL PLAN LEGEND:**

- A - NORTH REPAIR BAYS
- B - SOUTH REPAIR BAYS
- C - LUBE AND WASH BASINS
- D - STORES
- E - OFFICE AREA
- F - MACHINE SHOP
- G - PAINT AREA



KEY PLAN

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:13 PM			DESIGNER/DRAFTER: <b>CPS/ JFC</b> CHECKED BY: <b>EVD</b> SCALE: As indicated	<b>STATE OF CONNECTICUT</b> DEPARTMENT OF TRANSPORTATION Signature/Block: [Signature]	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-120</b> SHEET NO. <b>07.31</b>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	DRAWING TITLE: <b>OVERALL ROOF FRAMING PLAN</b>			



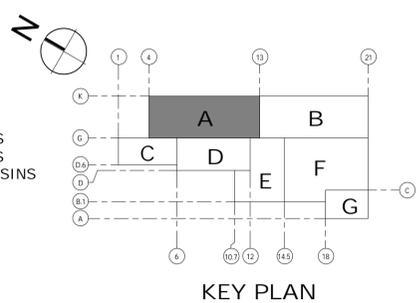
**1 ROOF FRAMING PLAN PART A**  
SCALE: 1/8" = 1'-0"

**NOTE A**  
SEE "TYP. DROP-IN FRAME AT MISC. ROOF OPNG." ON THE TYPICAL DETAIL SHEETS FOR SKYLIGHT AND ROOF DRAIN FRAMING DETAILS

- NOTES:**
- SEE STR-000 SERIES DRAWINGS FOR STRUCTURAL GENERAL NOTES, ABBREVIATIONS AND TYPICAL DETAILS.
  - D1** - INDICATES SPAN OF 3" DEEP TYPE N, 18 GA., GALVANIZED STEEL ROOF DECK.
  - D2** - INDICATES SPAN OF 1 1/2" DEEP, TYPE B, 18 GA., GALVANIZED STEEL ROOF DECK.
  - "132LH560/350" - INDICATES STEEL OPEN WEB JOISTS.
- UNIFORM LIVE LOAD  
UNIFORM TOTAL LOAD  
DEPTH OF JOIST @ ROOF PEAK

- THE BASIS OF DESIGN FOR ROOF DIAPHRAGM IS 1 1/2", 18 GA., TYPE B, G-90 GALV. ROOF DECK FOR D1 DECKS AND 3", 18 GA., TYPE N, G-90 GALV. ROOF DECK FOR D2 DECKS AS MANUFACTURED BY VULCRAFT. GC MAY SUBMIT PRODUCT ALTERNATE WITH CALCULATIONS FOR APPROVAL BY THE DESIGNER. THE FASTENING PATTERN SHALL BE:  
D1: FIELD=24/4, PERIMETER=24/4, CORNERS=24/4 w/(2) WELDS PER FLUTE  
D2: FIELD=36/4, PERIMETER=36/7, CORNERS=36/7 w/(2) WELDS PER FLUTE
- JOIST TOP AND BOTTOM CHORD BRIDGING SHALL BE PROVIDED PER SJI RECOMMENDATIONS.
- T.O.S. (U.N.O.) = SEE PART PLANS
- REFER TO STR-014 FOR SPECIAL JOIST DESIGN LOADS.
- C8 - INDICATES AN 8 INCH DEEP CHANNEL. REFER TO NOTE A FOR MORE INFORMATION.

- PARTIAL PLAN LEGEND:**
- A - NORTH REPAIR BAYS
  - B - SOUTH REPAIR BAYS
  - C - LUBE AND WASH BASINS
  - D - STORES
  - E - OFFICE AREA
  - F - MACHINE SHOP
  - G - PAINT AREA



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER:  
**CPS/JFC**

CHECKED BY:  
**EVD**

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

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

SIGNATURE/  
BLOCK:

Kleinfelder  
500 Enterprise Drive  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

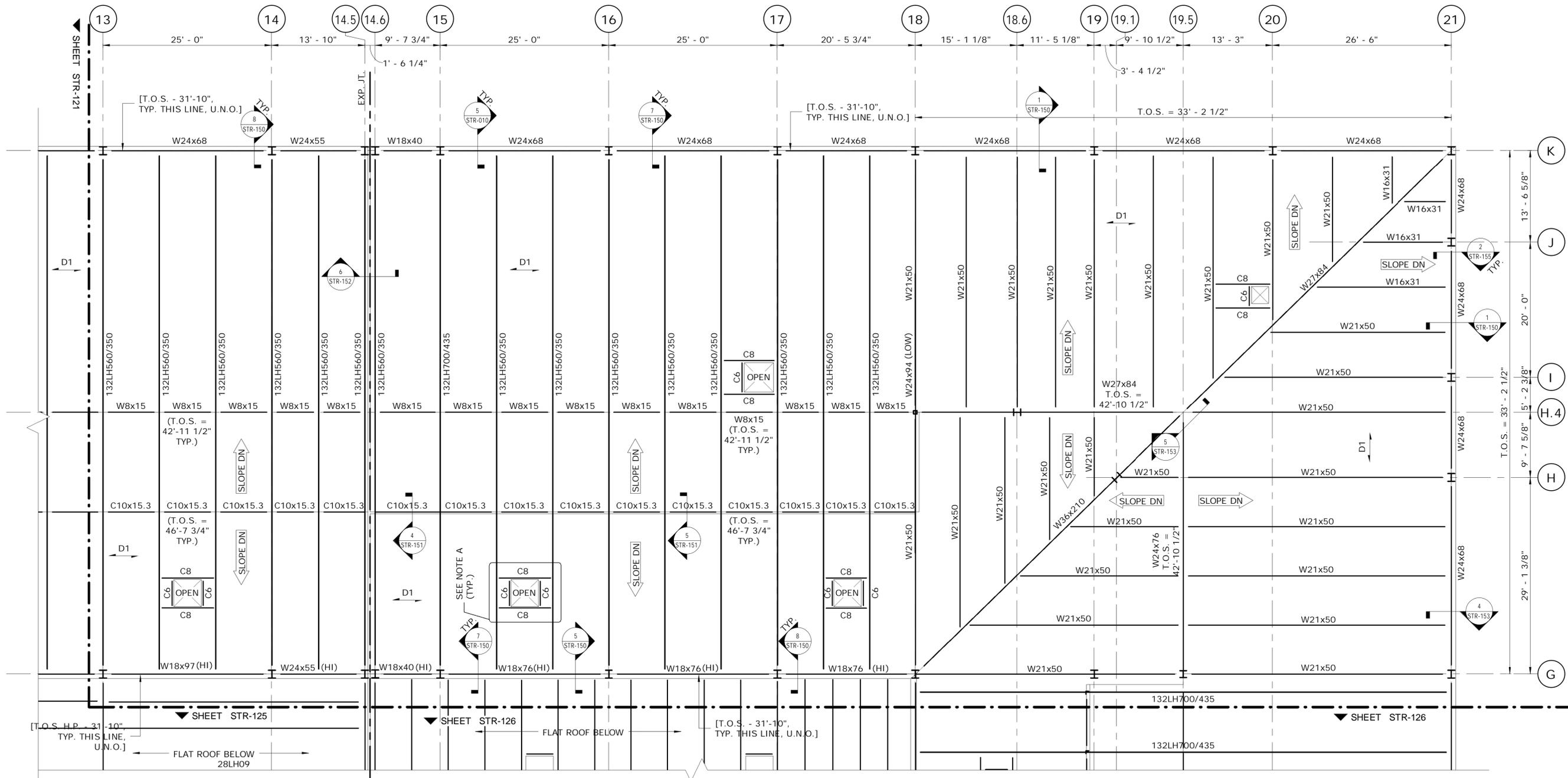
TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**ROOF FRAMING PART PLAN  
A**

PROJECT NO.  
**118-167**

DRAWING NO.  
**STR-121**

SHEET NO.  
**07.32**



1 ROOF FRAMING PLAN PART B  
SCALE: 1/8" = 1'-0"

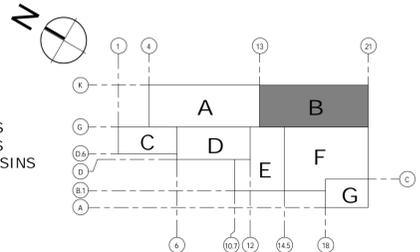
NOTE A  
SEE "TYP. DROP-IN FRAME AT MISC. ROOF OPNG." ON THE TYPICAL DETAIL SHEETS FOR SKYLIGHT AND ROOF DRAIN FRAMING DETAILS

NOTES:

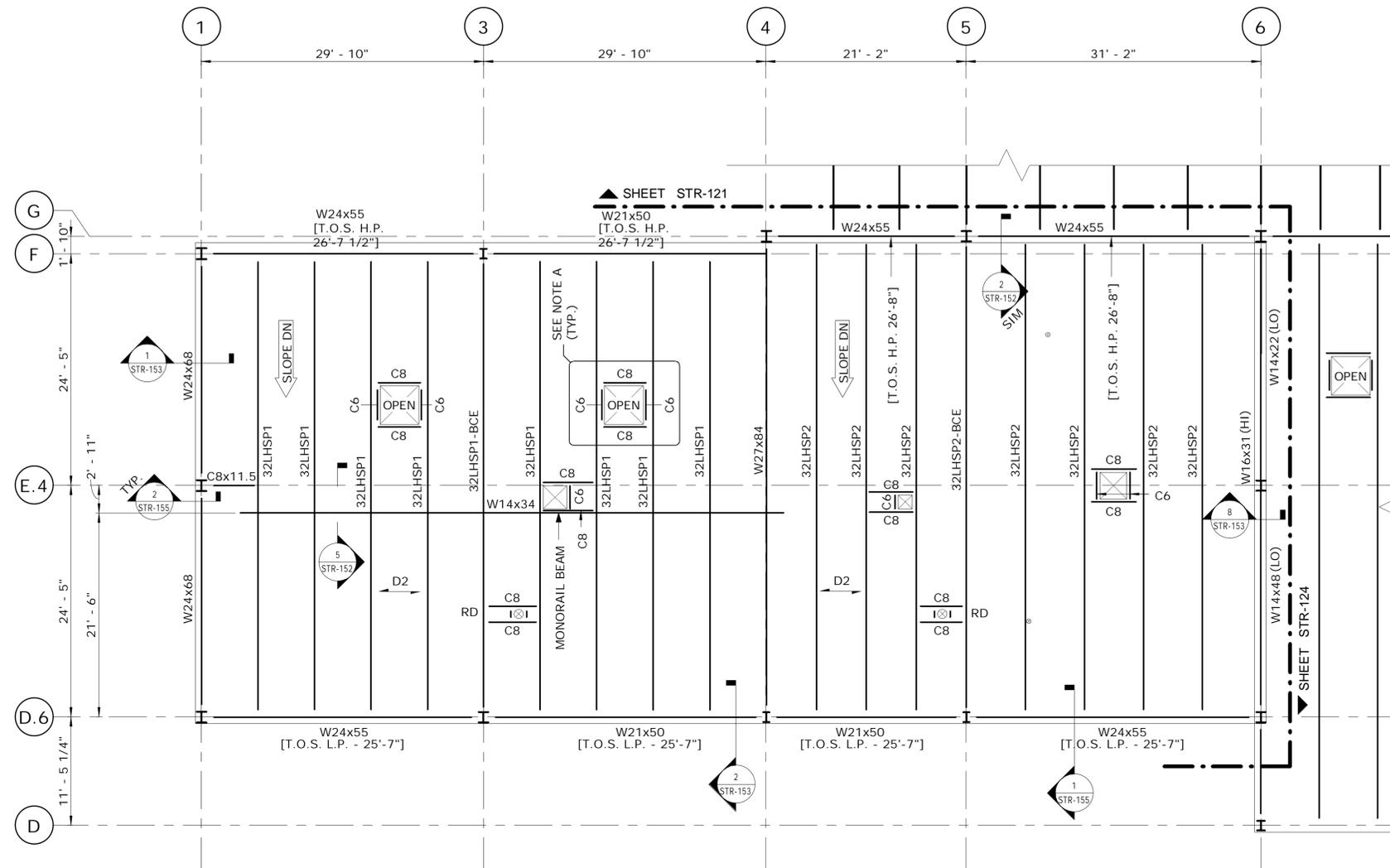
- SEE STR-000 SERIES DRAWINGS FOR STRUCTURAL GENERAL NOTES, ABBREVIATIONS AND TYPICAL DETAILS.
- D1 - INDICATES SPAN OF 3" DEEP TYPE N, 18 GA., GALVANIZED STEEL ROOF DECK.
- D2 - INDICATES SPAN OF 1 1/2" DEEP, TYPE B, 18 GA., GALVANIZED STEEL ROOF DECK.
- "132LH560/350" - INDICATES STEEL OPEN WEB JOISTS.  
UNIFORM LIVE LOAD  
UNIFORM TOTAL LOAD  
DEPTH OF JOIST @ ROOF PEAK
- THE BASIS OF DESIGN FOR ROOF DIAPHRAGM IS 1 1/2", 18 GA., TYPE B, G-90 GALV. ROOF DECK FOR D1 DECKS AND 3", 18 GA., TYPE N, G-90 GALV. ROOF DECK FOR D2 DECKS AS MANUFACTURED BY VULCRAFT. GC MAY SUBMIT PRODUCT ALTERNATE WITH CALCULATIONS FOR APPROVAL BY THE DESIGNER. THE FASTENING PATTERN SHALL BE:  
D1: FIELD=24/4, PERIMETER=24/4, CORNERS=24/4 w/(2) WELDS PER FLUTE  
D2: FIELD=36/4, PERIMETER=36/7, CORNERS=36/7 w/(2) WELDS PER FLUTE
- JOIST TOP AND BOTTOM CHORD BRIDGING SHALL BE PROVIDED PER SJI RECOMMENDATIONS.
- T.O.S. (U.N.O.) = SEE PART PLANS
- REFER TO STR-014 FOR SPECIAL JOIST DESIGN LOADS.
- C8 - INDICATES AN 8 INCH DEEP CHANNEL. REFER TO NOTE A FOR MORE INFORMATION.

PARTIAL PLAN LEGEND:

- A - NORTH REPAIR BAYS
- B - SOUTH REPAIR BAYS
- C - LUBE AND WASH BASINS
- D - STORES
- E - OFFICE AREA
- F - MACHINE SHOP
- G - PAINT AREA



REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:16 PM	DESIGNER/DRAFTER: <b>CPS/ JFC</b> CHECKED BY: <b>EVD</b> SCALE: 1/8" = 1'-0"	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Signature/Block: [Blank]	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-122</b> SHEET NO. <b>07.33</b>
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1 ROOF FRAMING PLAN PART C  
SCALE: 1/8" = 1'-0"

NOTE A  
SEE "TYP. DROP-IN FRAME AT MISC. ROOF OPNG." ON THE TYPICAL DETAIL SHEETS FOR SKYLIGHT AND ROOF DRAIN FRAMING DETAILS

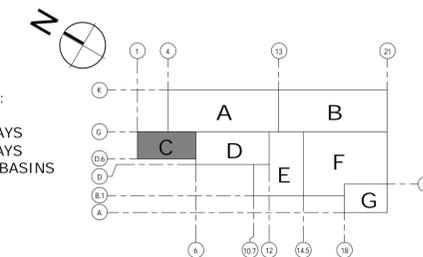
NOTES:

- SEE STR-000 SERIES DRAWINGS FOR STRUCTURAL GENERAL NOTES, ABBREVIATIONS AND TYPICAL DETAILS.
- D1 - INDICATES SPAN OF 3" DEEP TYPE N, 18 GA., GALVANIZED STEEL ROOF DECK.
- D2 - INDICATES SPAN OF 1 1/2" DEEP, TYPE B, 18 GA., GALVANIZED STEEL ROOF DECK.
- "132LH560/350" - INDICATES STEEL OPEN WEB JOISTS.
- THE BASIS OF DESIGN FOR ROOF DIAPHRAGM IS 1 1/2", 18 GA., TYPE B, G-90 GALV. ROOF DECK FOR D1 DECKS AND 3", 18 GA., TYPE N, G-90 GALV. ROOF DECK FOR D2 DECKS AS MANUFACTURED BY VULCRAFT. GC MAY SUBMIT PRODUCT ALTERNATE WITH CALCULATIONS FOR APPROVAL BY THE DESIGNER. THE FASTENING PATTERN SHALL BE:  
D1: FIELD=24/4, PERIMETER=24/4, CORNERS=24/4 w/(2) WELDS PER FLUTE  
D2: FIELD=36/4, PERIMETER=36/7, CORNERS=36/7 w/(2) WELDS PER FLUTE
- JOIST TOP AND BOTTOM CHORD BRIDGING SHALL BE PROVIDED PER SJI RECOMMENDATIONS.
- T.O.S. (U.N.O.) = SEE PART PLANS
- REFER TO STR-014 FOR SPECIAL JOIST DESIGN LOADS.
- C8 - INDICATES AN 8 INCH DEEP CHANNEL. REFER TO NOTE A FOR MORE INFORMATION.

UNIFORM LIVE LOAD  
UNIFORM TOTAL LOAD  
DEPTH OF JOIST @ ROOF PEAK

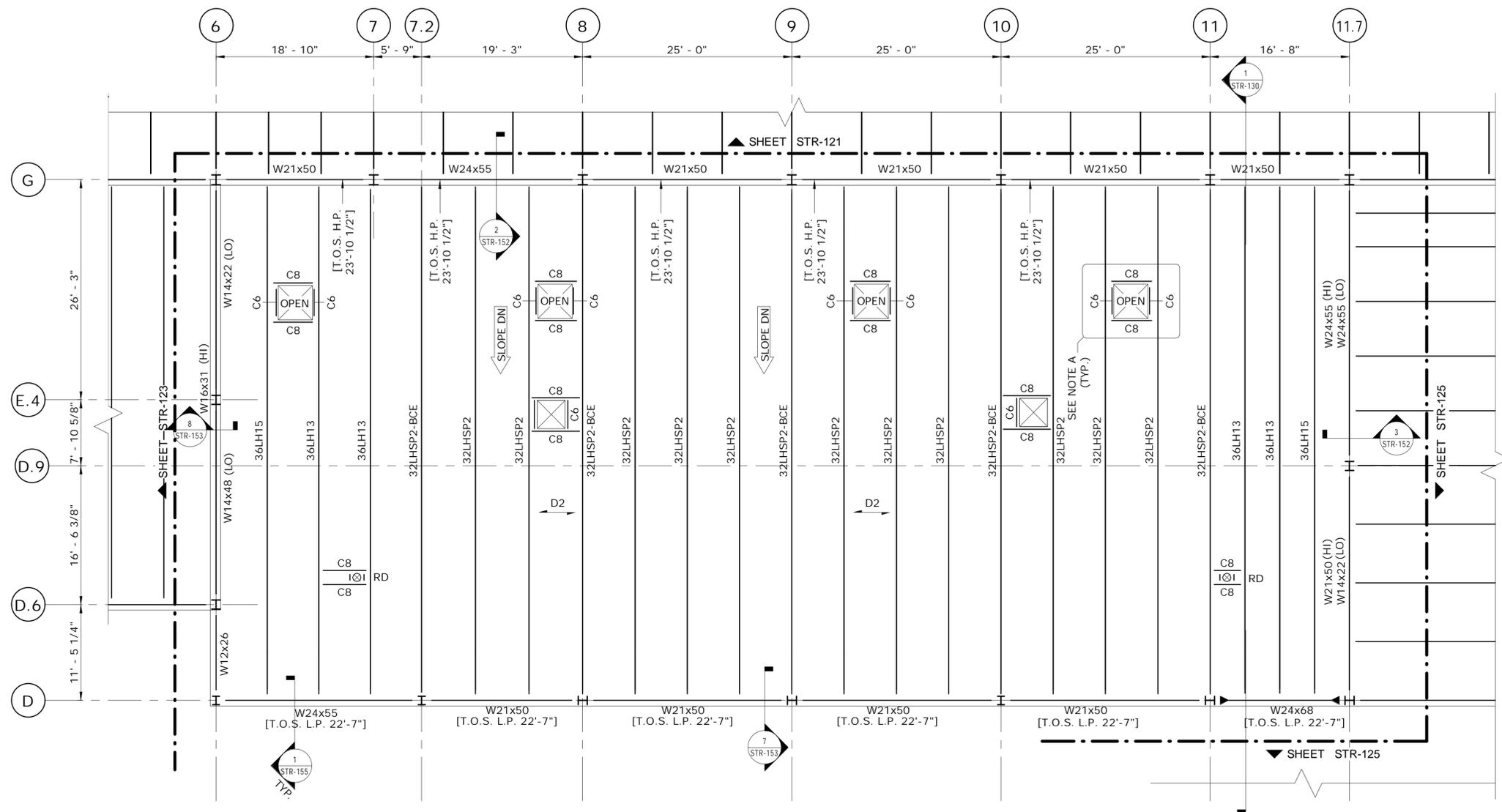
PARTIAL PLAN LEGEND:

- A - NORTH REPAIR BAYS
- B - SOUTH REPAIR BAYS
- C - LUBE AND WASH BASINS
- D - STORES
- E - OFFICE AREA
- F - MACHINE SHOP
- G - PAINT AREA



KEY PLAN

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:18 PM			DESIGNER/DRAFTER: <b>CPS/JFC</b> CHECKED BY: <b>EVD</b> SCALE: 1/8" = 1'-0"	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Signature/Block: [Signature]	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	FILENAME: C:\Revit1 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace	DRAWING TITLE: <b>ROOF FRAMING PART PLAN C</b>	DRAWING NO. <b>STR-123</b>	SHEET NO. <b>07.34</b>



1 ROOF FRAMING PLAN PART D  
SCALE: 1/8" = 1'-0"

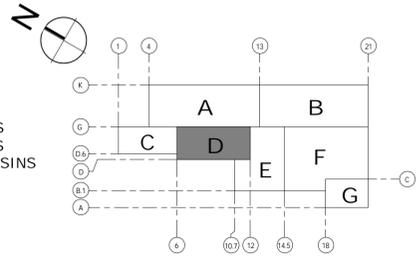
**NOTE A**  
SEE "TYP. DROP-IN FRAME AT MISC. ROOF OPNG." ON THE TYPICAL DETAIL SHEETS FOR SKYLIGHT AND ROOF DRAIN FRAMING DETAILS

**NOTES:**

- SEE STR-000 SERIES DRAWINGS FOR STRUCTURAL GENERAL NOTES, ABBREVIATIONS AND TYPICAL DETAILS.
- $\overleftarrow{D1}$  - INDICATES SPAN OF 3" DEEP TYPE N, 18 GA., GALVANIZED STEEL ROOF DECK.
- $\overleftarrow{D2}$  - INDICATES SPAN OF 1 1/2" DEEP, TYPE B, 18 GA., GALVANIZED STEEL ROOF DECK.
- "132LH560/350" - INDICATES STEEL OPEN WEB JOISTS.
- UNIFORM LIVE LOAD  
UNIFORM TOTAL LOAD  
DEPTH OF JOIST @ ROOF PEAK
- THE BASIS OF DESIGN FOR ROOF DIAPHRAGM IS 1 1/2", 18 GA., TYPE B, G-90 GALV. ROOF DECK FOR D1 DECKS AND 3", 18 GA., TYPE N, G-90 GALV. ROOF DECK FOR D2 DECKS AS MANUFACTURED BY VULCRAFT. GC MAY SUBMIT PRODUCT ALTERNATE WITH CALCULATIONS FOR APPROVAL BY THE DESIGNER. THE FASTENING PATTERN SHALL BE:  
D1: FIELD=24/4, PERIMETER=24/4, CORNERS=24/4 w/(2) WELDS PER FLUTE  
D2: FIELD=36/4, PERIMETER=36/7, CORNERS=36/7 w/(2) WELDS PER FLUTE
- JOIST TOP AND BOTTOM CHORD BRIDGING SHALL BE PROVIDED PER SJI RECOMMENDATIONS.
- T.O.S. (U.N.O.) = SEE PART PLANS
- REFER TO STR-014 FOR SPECIAL JOIST DESIGN LOADS.
- C8 - INDICATES AN 8 INCH DEEP CHANNEL. REFER TO NOTE A FOR MORE INFORMATION.

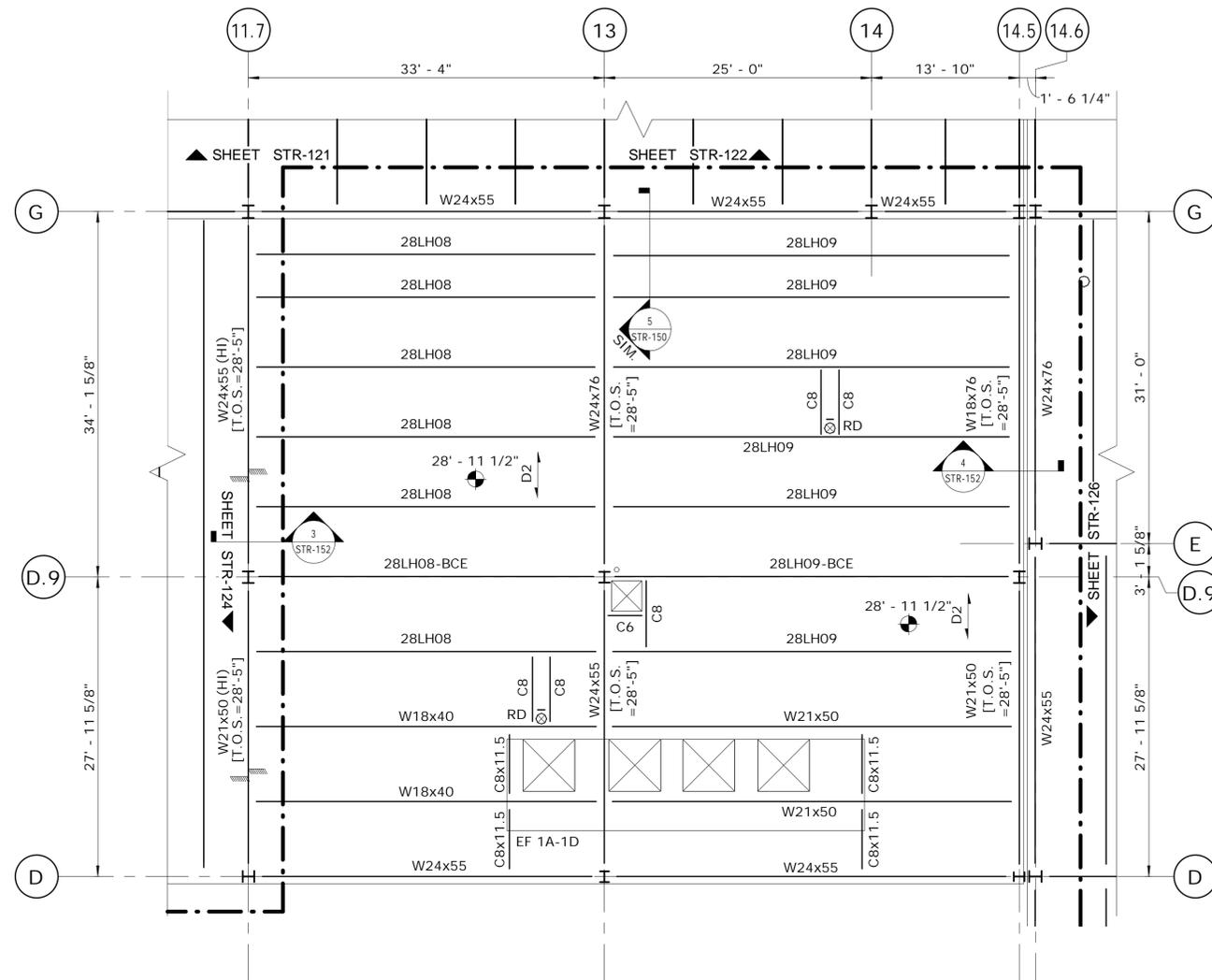
**PARTIAL PLAN LEGEND:**

- A - NORTH REPAIR BAYS
- B - SOUTH REPAIR BAYS
- C - LUBE AND WASH BASINS
- D - STORES
- E - OFFICE AREA
- F - MACHINE SHOP
- G - PAINT AREA



KEY PLAN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:19 PM	DESIGNER/DRAFTER: <b>CPS/ JFC</b> CHECKED BY: <b>EVD</b> SCALE: 1/8" = 1'-0"	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: C:\Revit1 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b>
									DRAWING TITLE: <b>ROOF FRAMING PART PLAN D</b>	DRAWING NO. <b>STR-124</b>
										SHEET NO. <b>07.35</b>



1 ROOF FRAMING PLAN PART E  
SCALE: 1/8" = 1'-0"

**NOTES:**

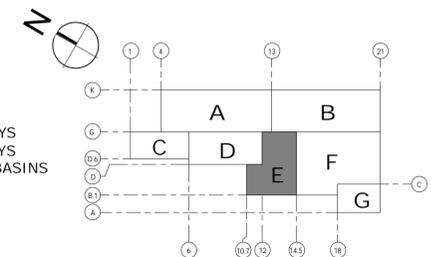
- SEE STR-000 SERIES DRAWINGS FOR STRUCTURAL GENERAL NOTES, ABBREVIATIONS AND TYPICAL DETAILS.
- D1 - INDICATES SPAN OF 3" DEEP TYPE N, 18 GA., GALVANIZED STEEL ROOF DECK.
- D2 - INDICATES SPAN OF 1 1/2" DEEP, TYPE B, 18 GA., GALVANIZED STEEL ROOF DECK.
- "132LH560/350" - INDICATES STEEL OPEN WEB JOISTS.

UNIFORM LIVE LOAD  
UNIFORM TOTAL LOAD  
DEPTH OF JOIST @ ROOF PEAK

- THE BASIS OF DESIGN FOR ROOF DIAPHRAGM IS 1 1/2", 18 GA., TYPE B, G-90 GALV. ROOF DECK FOR D1 DECKS AND 3", 18 GA., TYPE N, G-90 GALV. ROOF DECK FOR D2 DECKS AS MANUFACTURED BY VULCRAFT. GC MAY SUBMIT PRODUCT ALTERNATE WITH CALCULATIONS FOR APPROVAL BY THE DESIGNER. THE FASTENING PATTERN SHALL BE:  
D1: FIELD=24/4, PERIMETER=24/4, CORNERS=24/4 w/(2) WELDS PER FLUTE  
D2: FIELD=36/4, PERIMETER=36/7, CORNERS=36/7 w/(2) WELDS PER FLUTE
- JOIST TOP AND BOTTOM CHORD BRIDGING SHALL BE PROVIDED PER SJI RECOMMENDATIONS.
- T.O.S. (U.N.O.) = SEE PART PLANS
- REFER TO STR-014 FOR SPECIAL JOIST DESIGN LOADS.
- C8 - INDICATES AN 8 INCH DEEP CHANNEL. REFER TO NOTE A FOR MORE INFORMATION.

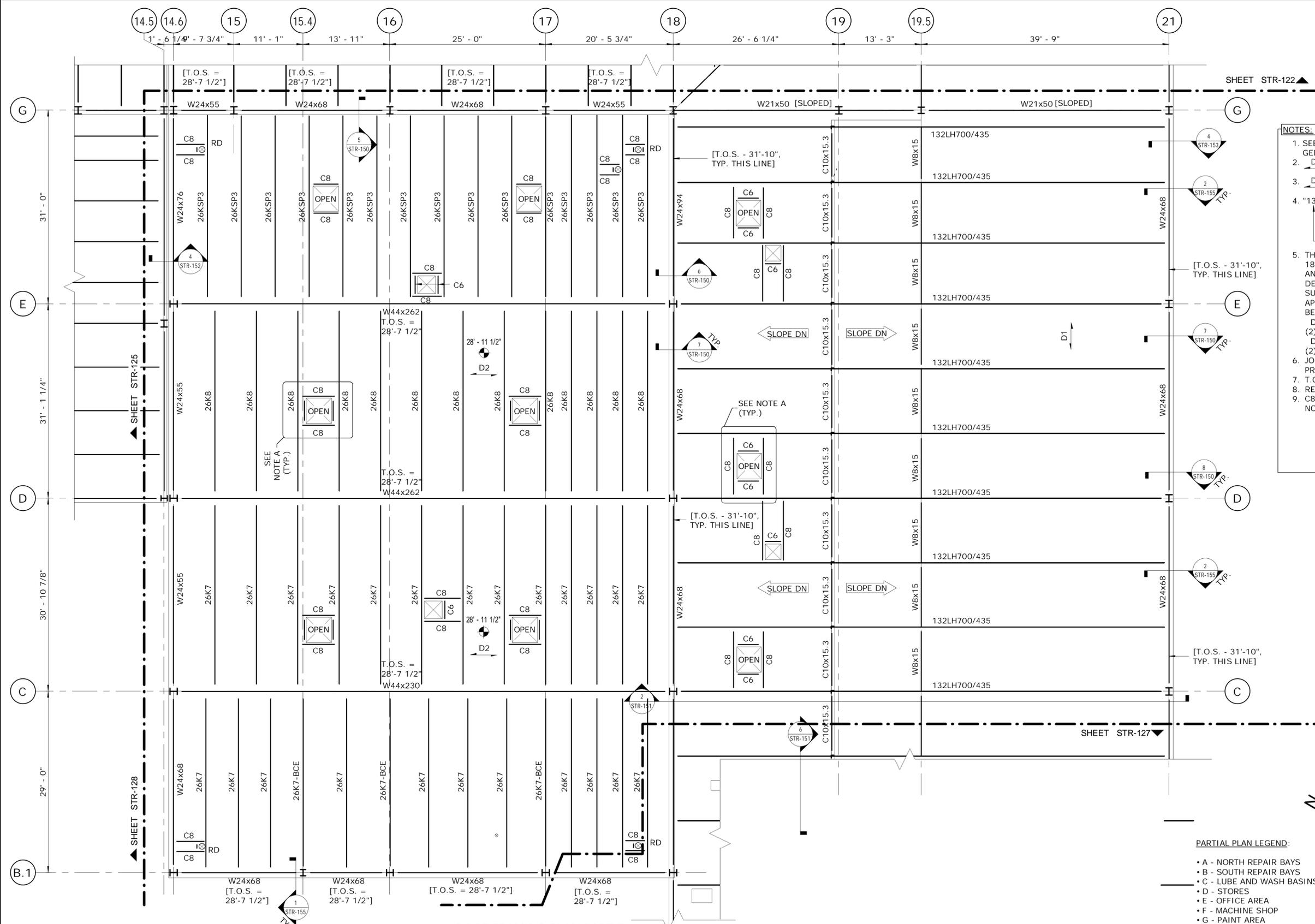
**PARTIAL PLAN LEGEND:**

- A - NORTH REPAIR BAYS
- B - SOUTH REPAIR BAYS
- C - LUBE AND WASH BASINS
- D - STORES
- E - OFFICE AREA
- F - MACHINE SHOP
- G - PAINT AREA



KEY PLAN

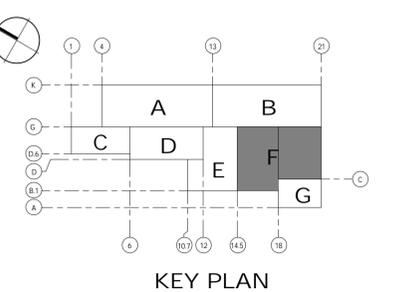
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:19 PM			DESIGNER/DRAFTER: <b>CPS/JFC</b> CHECKED BY: <b>EVD</b> SCALE: 1/8" = 1'-0"	<b>STATE OF CONNECTICUT</b> DEPARTMENT OF TRANSPORTATION Signature/Block: [Signature] Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	DRAWING TITLE: <b>ROOF FRAMING PART PLAN E</b>			DRAWING NO. <b>STR-125</b>
							SHEET NO. <b>07.36</b>



- NOTES:**
- SEE STR-000 SERIES DRAWINGS FOR STRUCTURAL GENERAL NOTES, ABBREVIATIONS AND TYPICAL DETAILS.
  - D1 - INDICATES SPAN OF 3" DEEP TYPE N, 18 GA., GALVANIZED STEEL ROOF DECK.
  - D2 - INDICATES SPAN OF 1 1/2" DEEP, TYPE B, 18 GA., GALVANIZED STEEL ROOF DECK.
  - "132LH560/350" - INDICATES STEEL OPEN WEB JOISTS.
    - UNIFORM LIVE LOAD
    - UNIFORM TOTAL LOAD
    - DEPTH OF JOIST @ ROOF PEAK
  - THE BASIS OF DESIGN FOR ROOF DIAPHRAGM IS 1 1/2", 18 GA., TYPE B, G-90 GALV. ROOF DECK FOR D1 DECKS AND 3", 18 GA., TYPE N, G-90 GALV. ROOF DECK FOR D2 DECKS AS MANUFACTURED BY VULCRAFT. GC MAY SUBMIT PRODUCT ALTERNATE WITH CALCULATIONS FOR APPROVAL BY THE EOR. THE FASTENING PATTERN SHALL BE:
    - D1: FIELD=24/4, PERIMETER=24/4, CORNERS=24/4 w/ (2) WELDS PER FLUTE
    - D2: FIELD=36/4, PERIMETER=36/7, CORNERS=36/7 w/ (2) WELDS PER FLUTE
  - JOIST TOP AND BOTTOM CHORD BRIDGING SHALL BE PROVIDED PER SJI RECOMMENDATIONS.
  - T.O.S. (U.N.O.) = 28'-10"
  - REFER TO S-012 FOR SPECIAL JOIST DESIGN LOADS.
  - C8 - INDICATES AN 8 INCH DEEP CHANNEL. REFER TO NOTE A FOR MORE INFORMATION.

**NOTE A**  
SEE "TYP. DROP-IN FRAME AT MISC. ROOF OPNG." ON THE TYPICAL DETAIL SHEETS FOR SKYLIGHT AND ROOF DRAIN FRAMING DETAILS

- PARTIAL PLAN LEGEND:**
- A - NORTH REPAIR BAYS
  - B - SOUTH REPAIR BAYS
  - C - LUBE AND WASH BASINS
  - D - STORES
  - E - OFFICE AREA
  - F - MACHINE SHOP
  - G - PAINT AREA



**1 ROOF FRAMING PLAN PART F**  
SCALE: 1/8" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER:  
**CPS/JFC**

CHECKED BY:  
**EVD**

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

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

Plotted Date: 10/23/2014 3:05:21 PM

SIGNATURE/  
BLOCK:

**Kleinfelder**  
500 Enterprise Drive  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

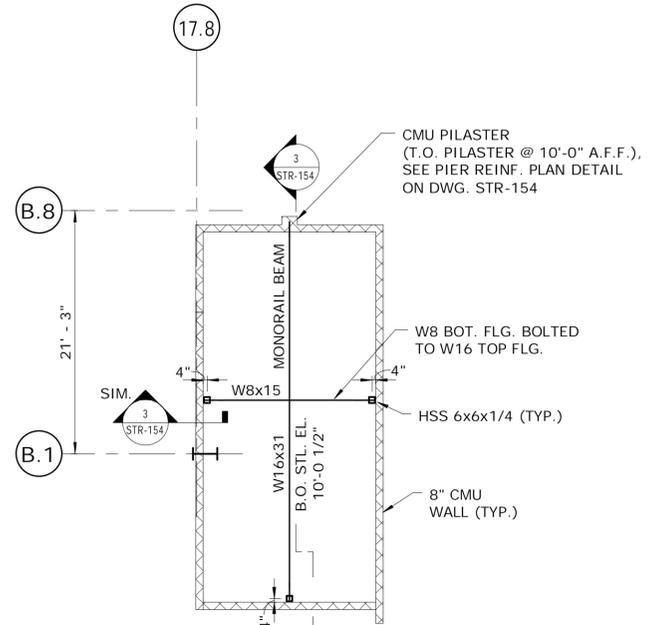
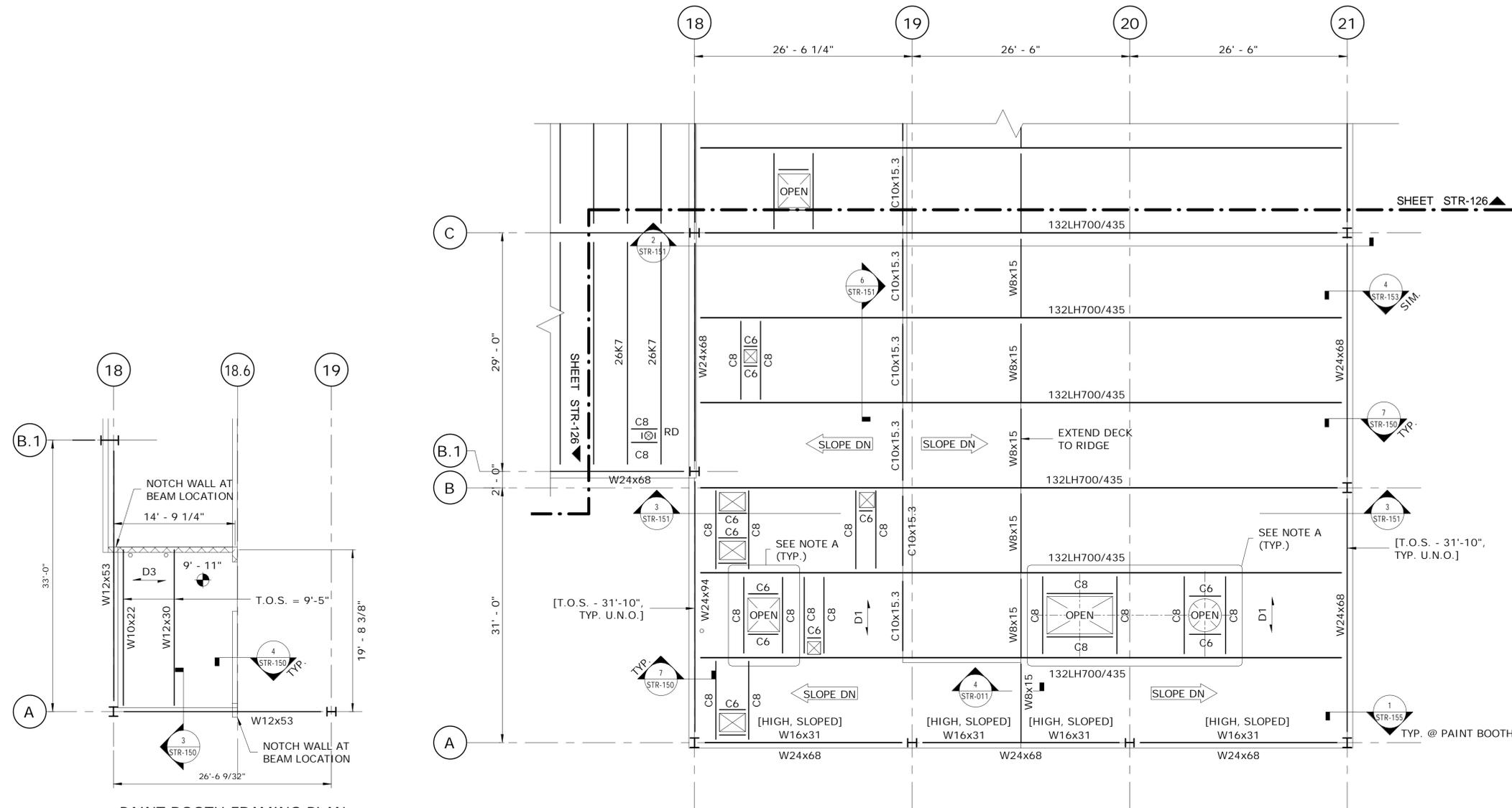
TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**ROOF FRAMING PART PLAN F**

PROJECT NO.  
**118-167**

DRAWING NO.  
**STR-126**

SHEET NO.  
**07.37**



**2 PAINT BOOTH FRAMING PLAN**  
SCALE: 1/8" = 1'-0"

**1 ROOF FRAMING PLAN PART G**  
SCALE: 1/8" = 1'-0"

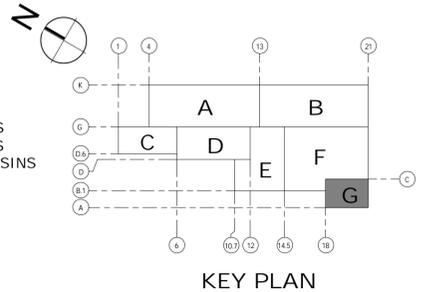
**3 PARTS WASHER HOIST FRAMING PLAN**  
SCALE: 1/8" = 1'-0"

**NOTE:**  
D3 - INDICATES SPAN OF 2", 18 GA., COMPOSITE METAL DECK W/4" NW CONC. TOPPING, 6" TOTAL THICKNESS

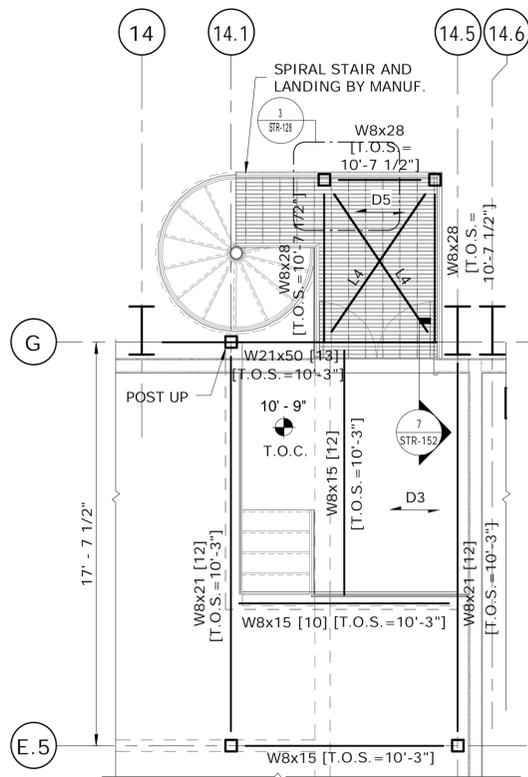
**NOTE A**  
SEE "TYP. DROP-IN FRAME AT MISC. ROOF OPNG." ON THE TYPICAL DETAIL SHEETS FOR SKYLIGHT AND ROOF DRAIN FRAMING DETAILS

- NOTES:**
- SEE STR-000 SERIES DRAWINGS FOR STRUCTURAL GENERAL NOTES, ABBREVIATIONS AND TYPICAL DETAILS.
  - D1 - INDICATES SPAN OF 3" DEEP TYPE N, 18 GA., GALVANIZED STEEL ROOF DECK.
  - D2 - INDICATES SPAN OF 1 1/2" DEEP, TYPE B, 18 GA., GALVANIZED STEEL ROOF DECK.
  - "132LH560/350" - INDICATES STEEL OPEN WEB JOISTS.
  - UNIFORM LIVE LOAD
  - UNIFORM TOTAL LOAD
  - DEPTH OF JOIST @ ROOF PEAK
  - THE BASIS OF DESIGN FOR ROOF DIAPHRAGM IS 1 1/2", 18 GA., TYPE B, G-90 GALV. ROOF DECK FOR D1 DECKS AND 3", 18 GA., TYPE N, G-90 GALV. ROOF DECK FOR D2 DECKS AS MANUFACTURED BY VULCRAFT. GC MAY SUBMIT PRODUCT ALTERNATE WITH CALCULATIONS FOR APPROVAL BY THE DESIGNER. THE FASTENING PATTERN SHALL BE:  
D1: FIELD=24/4, PERIMETER=24/4, CORNERS=24/4 w/(2) WELDS PER FLUTE  
D2: FIELD=36/4, PERIMETER=36/7, CORNERS=36/7 w/(2) WELDS PER FLUTE
  - JOIST TOP AND BOTTOM CHORD BRIDGING SHALL BE PROVIDED PER SJI RECOMMENDATIONS.
  - T.O.S. (U.N.O.) = SEE PART PLANS
  - REFER TO STR-014 FOR SPECIAL JOIST DESIGN LOADS.
  - C8 - INDICATES AN 8 INCH DEEP CHANNEL. REFER TO NOTE A FOR MORE INFORMATION.

- PARTIAL PLAN LEGEND:**
- A - NORTH REPAIR BAYS
  - B - SOUTH REPAIR BAYS
  - C - LUBE AND WASH BASINS
  - D - STORES
  - E - OFFICE AREA
  - F - MACHINE SHOP
  - G - PAINT AREA

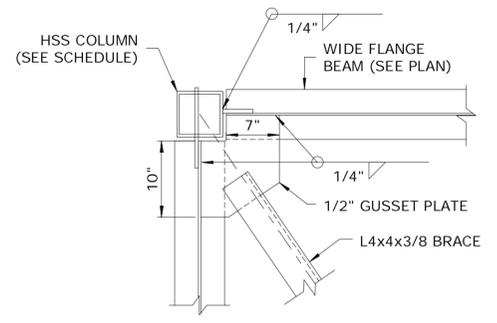


REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:22 PM	DESIGNER/DRAFTER: <b>CPS/JFC</b> CHECKED BY: <b>EVD</b> SCALE: 1/8" = 1'-0"	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: C:\Revit1 2014\STRUCTURE_DOT_Rocky Hill Repair Facility_Central Replace	SIGNATURE/ BLOCK: Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE:  <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b> DRAWING TITLE: <b>ROOF FRAMING PART PLAN G</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-127</b> SHEET NO. <b>07.38</b>
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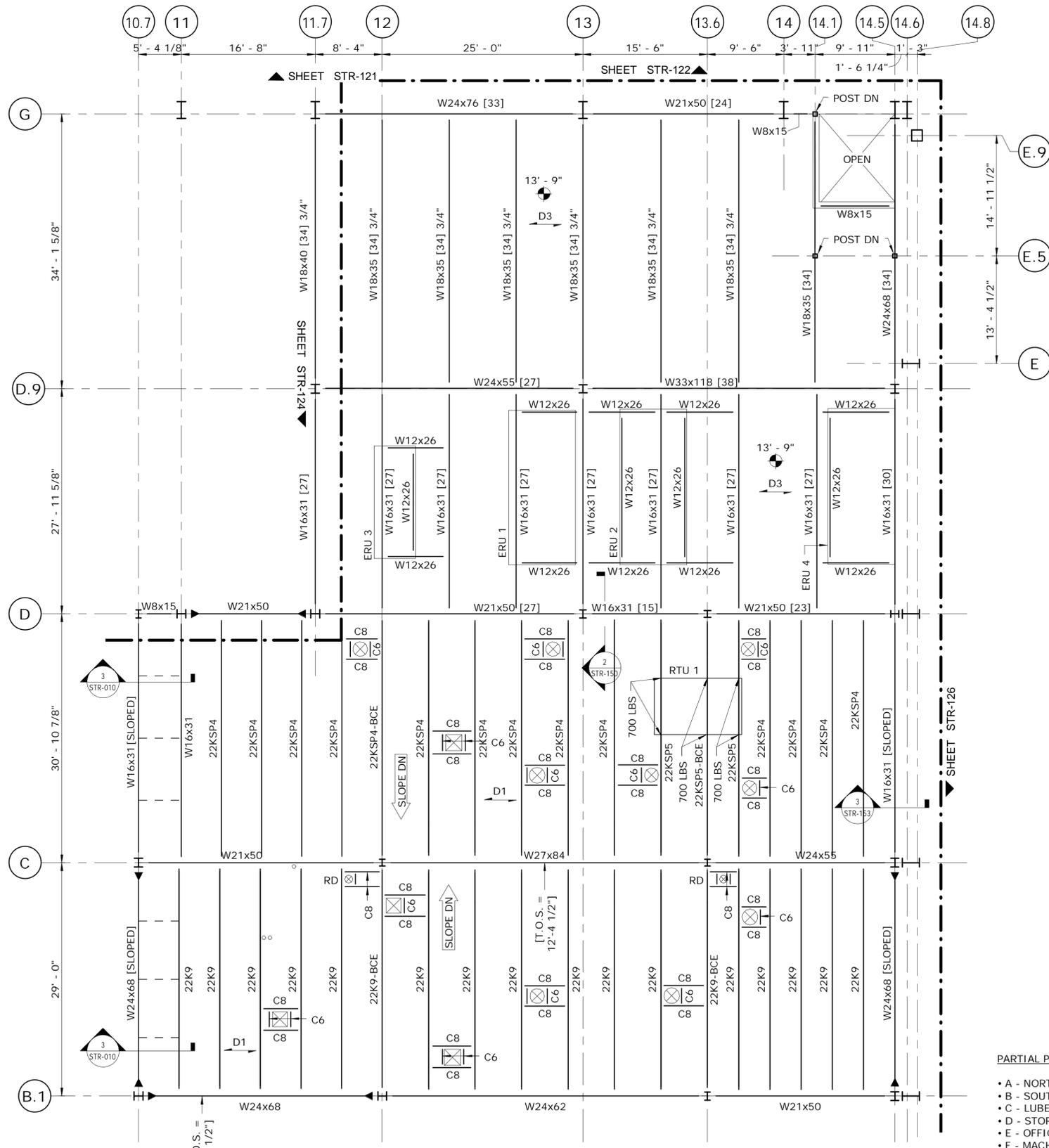
2 SPIRAL STAIR LANDING FRAMING PLAN

SCALE: 1/4" = 1'-0"  
 NOTES:  
 1. L4 - INDICATES L4x4x3/8 ANGLE



3 CONNECTION DETAIL

SCALE: 1" = 1'-0"



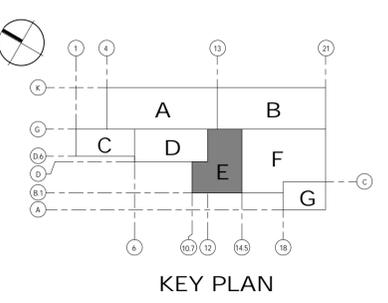
1 PART E - EQUIPMENT PLATFORM & LOW ROOF FRAMING PLAN

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

- NOTES:**
- SEE STR-000 SERIES DRAWINGS FOR STRUCTURAL GENERAL NOTES, ABBREVIATIONS AND TYPICAL DETAILS.
  - D1 - INDICATES SPAN OF 3" DEEP TYPE N, 18 GA., GALVANIZED STEEL ROOF DECK.
  - D2 - INDICATES SPAN OF 1 1/2" DEEP, TYPE B, 18 GA., GALVANIZED STEEL ROOF DECK.
  - "132LH560/350" - INDICATES STEEL OPEN WEB JOISTS.
  - UNIFORM LIVE LOAD  
UNIFORM TOTAL LOAD  
DEPTH OF JOIST @ ROOF PEAK
  - THE BASIS OF DESIGN FOR ROOF DIAPHRAGM IS 1 1/2", 18 GA., TYPE B, G-90 GALV. ROOF DECK FOR D1 DECKS AND 3", 18 GA., TYPE N, G-90 GALV. ROOF DECK FOR D2 DECKS AS MANUFACTURED BY VULCRAFT. GC MAY SUBMIT PRODUCT ALTERNATE WITH CALCULATIONS FOR APPROVAL BY THE EOR. THE FASTENING PATTERN SHALL BE:  
D1: FIELD=24/4, PERIMETER=24/4, CORNERS=24/4 w/ (2) WELDS PER FLUTE  
D2: FIELD=36/4, PERIMETER=36/7, CORNERS=36/7 w/ (2) WELDS PER FLUTE
  - JOIST TOP AND BOTTOM CHORD BRIDGING SHALL BE PROVIDED PER SJI RECOMMENDATIONS.
  - T.O.S. (U.N.O.) = 13' - 3"
  - REFER TO S-012 FOR SPECIAL JOIST DESIGN LOADS.
  - C8 - INDICATES AN 8 INCH DEEP CHANNEL. REFER TO NOTE A FOR MORE INFORMATION.
  - D3 - INDICATE SPAN OF COMPOSITE DECK, 4" NORMAL WEIGHT CONCRETE ON 2", 18 GA. METAL DECK (6" TOTAL THICKNESS).
  - D5 - INDICATE SPAN OF 1 1/2" METAL BAR GRATING

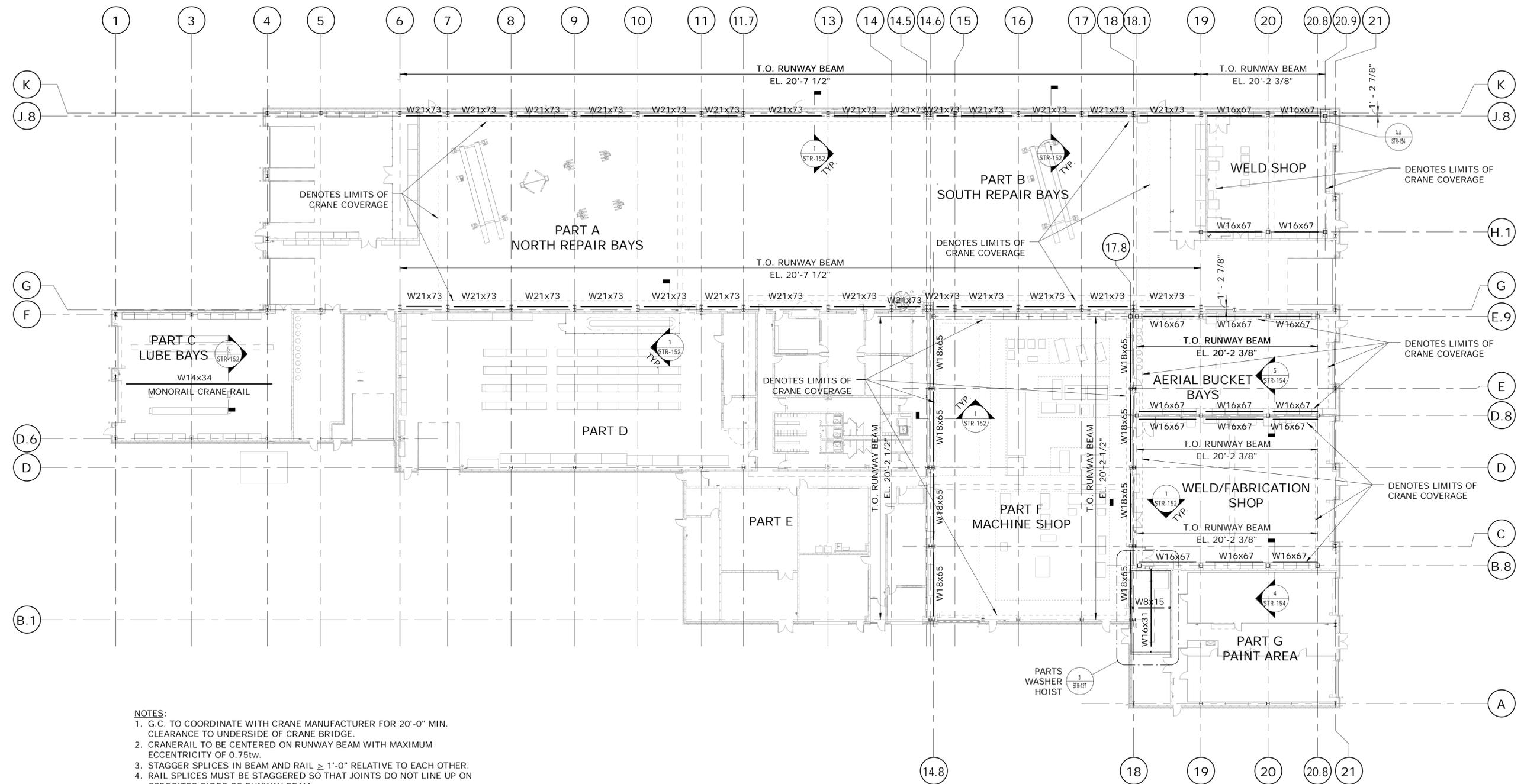
PARTIAL PLAN LEGEND:

- A - NORTH REPAIR BAYS
- B - SOUTH REPAIR BAYS
- C - LUBE AND WASH BASINS
- D - STORES
- E - OFFICE AREA
- F - MACHINE SHOP
- G - PAINT AREA



KEY PLAN

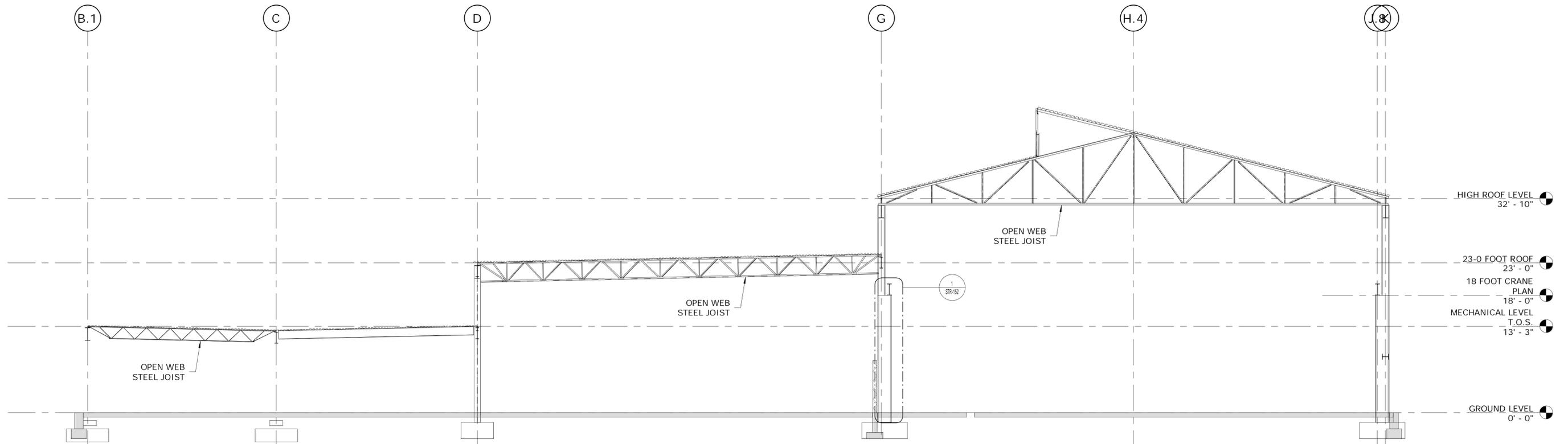
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	DESIGNER/DRAFTER: <b>CPS/JFC</b>	CHECKED BY: <b>EVD</b>	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b>	
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:24 PM				SCALE: As indicated			File name: C:\Revit1 2014\STRUCT_CT DOT_Rocky Hill Repair Facility_Central Replace	Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	DRAWING TITLE: <b>EQUIPMENT PLATFORM &amp; LOW ROOF FRAMING PLAN</b>	DRAWING NO. <b>STR-128</b>	SHEET NO. <b>07.39</b>



- NOTES:
1. G.C. TO COORDINATE WITH CRANE MANUFACTURER FOR 20'-0" MIN. CLEARANCE TO UNDERSIDE OF CRANE BRIDGE.
  2. CRANERAIL TO BE CENTERED ON RUNWAY BEAM WITH MAXIMUM ECCENTRICITY OF 0.75tw.
  3. STAGGER SPLICES IN BEAM AND RAIL  $\geq$  1'-0" RELATIVE TO EACH OTHER.
  4. RAIL SPLICES MUST BE STAGGERED SO THAT JOINTS DO NOT LINE UP ON OPPOSITE SIDES OF RUNWAY BEAM.
  5. RAIL SEPARATION NOT TO EXCEED 1/16".
  6. RAIL MUST BE CONTINUOUS OVER RUNWAY EXPANSION JOINTS.

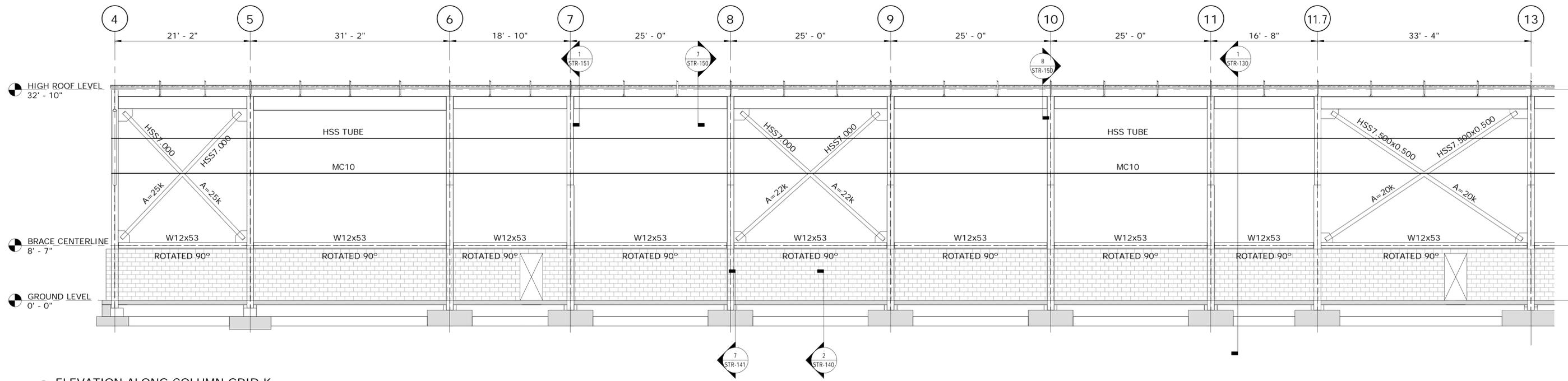
1 OVERHEAD CRANES FRAMING PLAN  
SCALE: 3/64" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:28 PM	DESIGNER/DRAFTER: <b>CPS/ JFC</b>	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE:  <b>REPAIR FACILITY</b>	TOWN:  <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b>
					CHECKED BY: <b>EVD</b>					
					SCALE: 3/64" = 1'-0"	FILENAME: C:\Revit 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace				SHEET NO. <b>07.40</b>

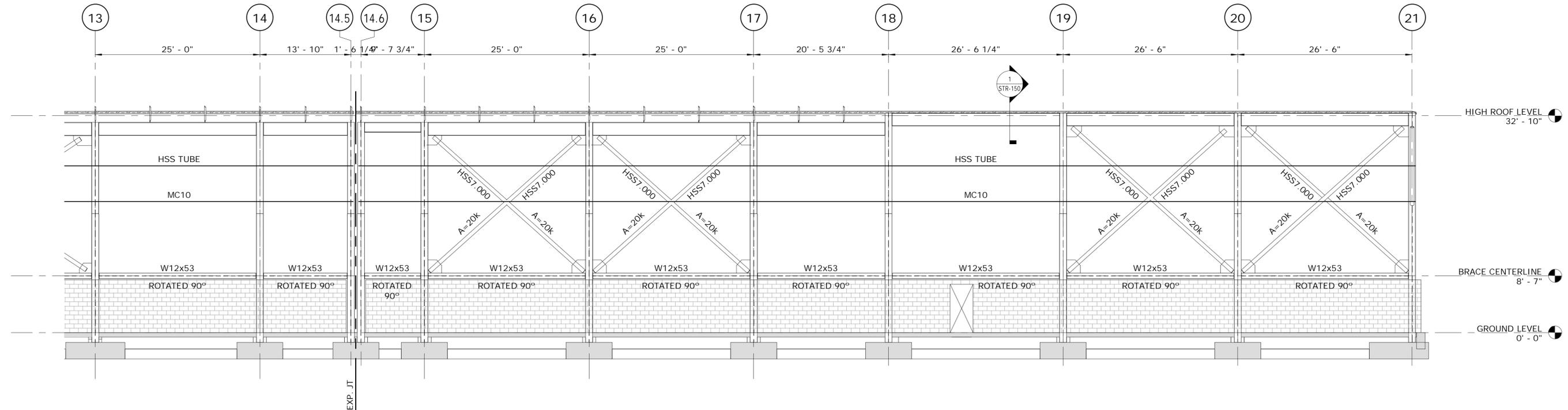


① BUILDING SECTION  
SCALE: 1/8" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. <small>Plotted Date: 10/23/2014 3:05:29 PM</small>			DESIGNER/DRAFTER: <b>CPS/ JFC</b> CHECKED BY: <b>EVD</b> SCALE: 1/8" = 1'-0"	 <b>STATE OF CONNECTICUT</b> DEPARTMENT OF TRANSPORTATION <small>Filename: C:\Revit1 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace</small>	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <p style="text-align: center;"><b>REPAIR FACILITY</b></p>	TOWN: <p style="text-align: center;"><b>ROCKY HILL</b></p>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-130</b> SHEET NO. <b>07.41</b>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	DRAWING TITLE: <p style="text-align: center;"><b>BUILDING SECTION &amp; TYP. BRACE FRAME ELEVATION</b></p>				



1 ELEVATION ALONG COLUMN GRID K  
SCALE: 1/8" = 1'-0"



2 ELEVATION ALONG COLUMN GRID K  
SCALE: 1/8" = 1'-0"

**NOTES:**  
 1. HSS7.000 - INDICATES HSS7.000x0.375 BRACE  
 2. HSS7.500 - INDICATES HSS7.500x0.500 BRACE  
 3. MF - INDICATES MOMENT FRAME CONNECTION.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.  
 Plotted Date: 10/23/2014 3:05:31 PM

DESIGNER/DRAFTER:  
**CPS/ AAO**  
 CHECKED BY:  
**EVD**  
 SCALE: 1/8" = 1'-0"

STATE OF CONNECTICUT  
 DEPARTMENT OF TRANSPORTATION

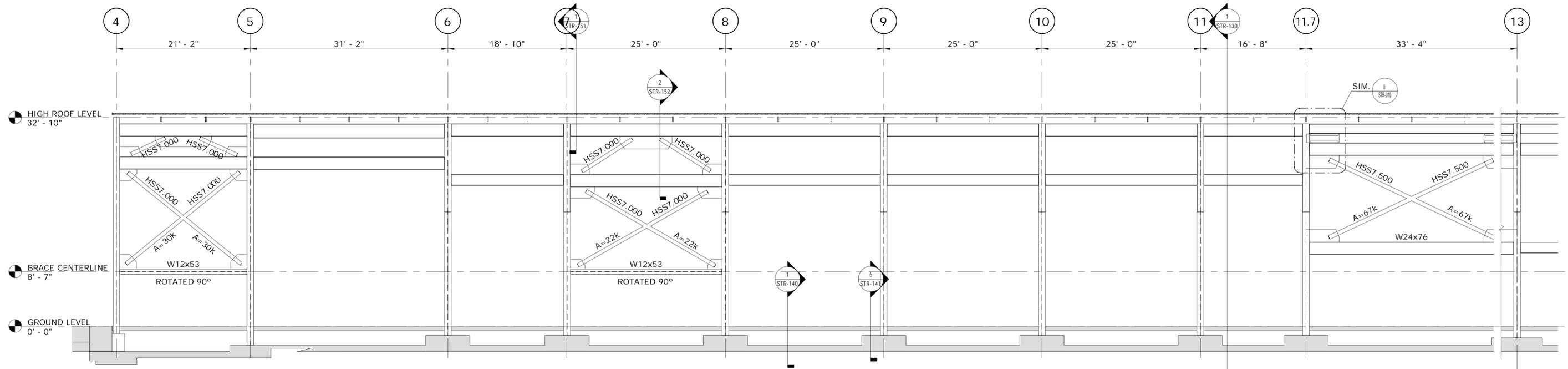
SIGNATURE/BLOCK:  
  
 Kleinfelder  
 500 Enterprise Drive  
 Suite 4B  
 Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

TOWN:  
**ROCKY HILL**  
 DRAWING TITLE:  
**FRAME ELEVATION ALONG COLUMN LINE K**

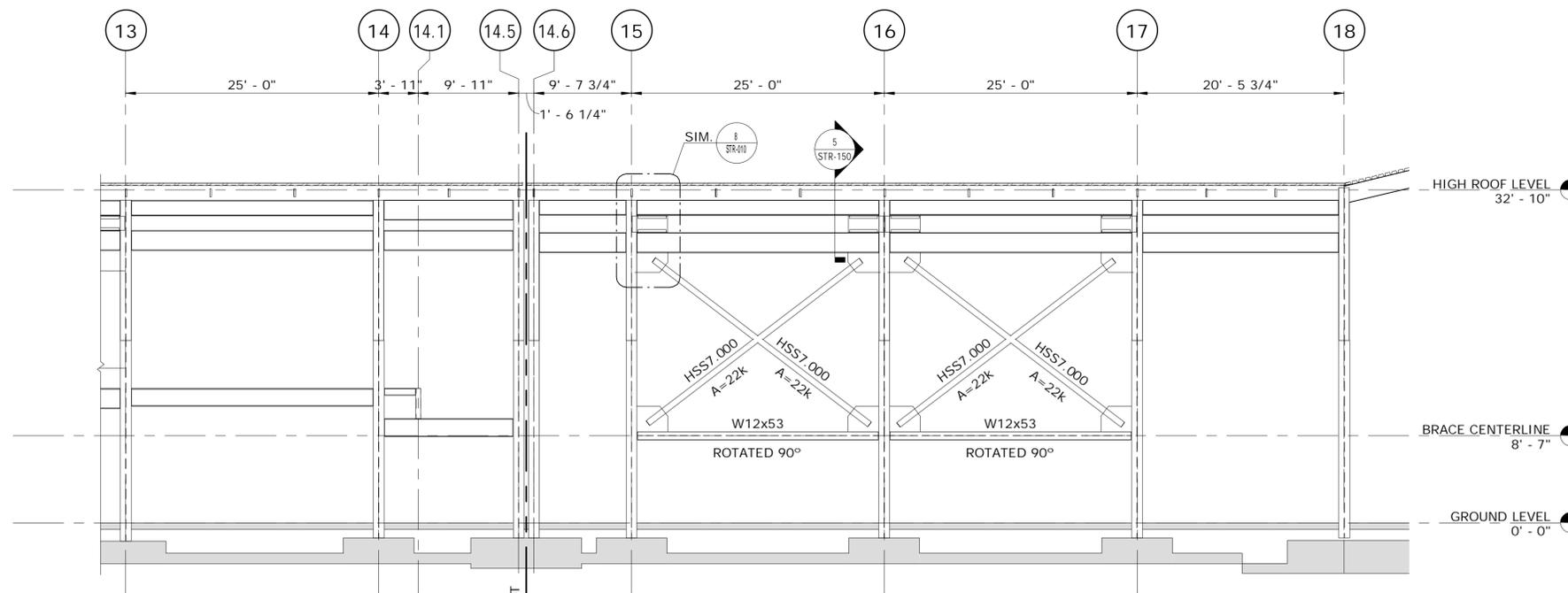
PROJECT NO.  
**118-167**  
 DRAWING NO.  
**STR-131**  
 SHEET NO.  
**07.42**

Filename: C:\Revit\2014\STRUCT\_CT\_DOT\_Rocky Hill Repair Facility\_Central Replace



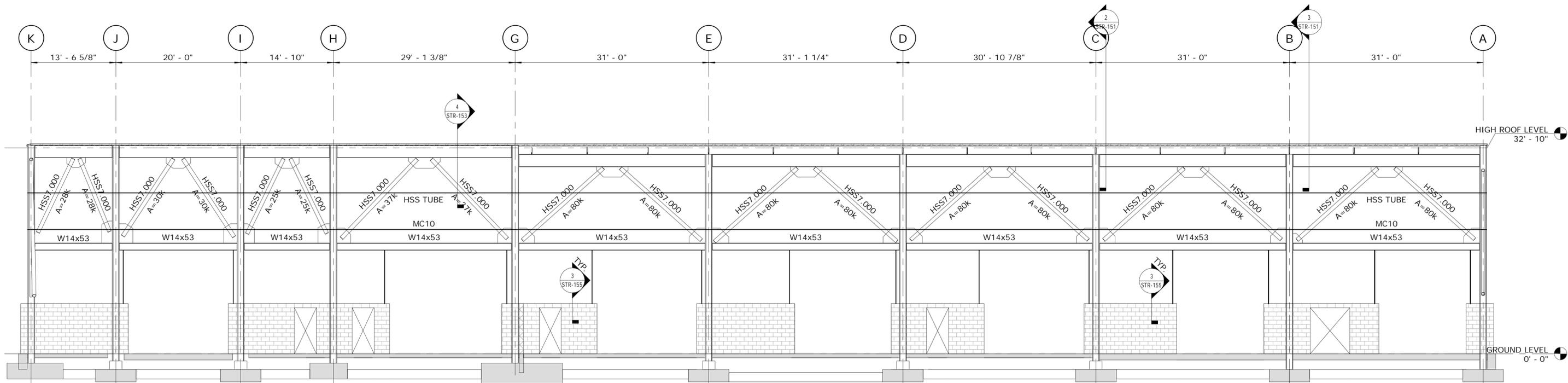
① ELEVATION ALONG COLUMN LINE G  
SCALE: 1/8" = 1'-0"

NOTES:  
 1. HSS7.000 - INDICATES HSS7.000x0.375 BRACE  
 2. HSS7.500 - INDICATES HSS7.500x0.500 BRACE  
 3. MF - INDICATES MOMENT FRAME CONNECTION.



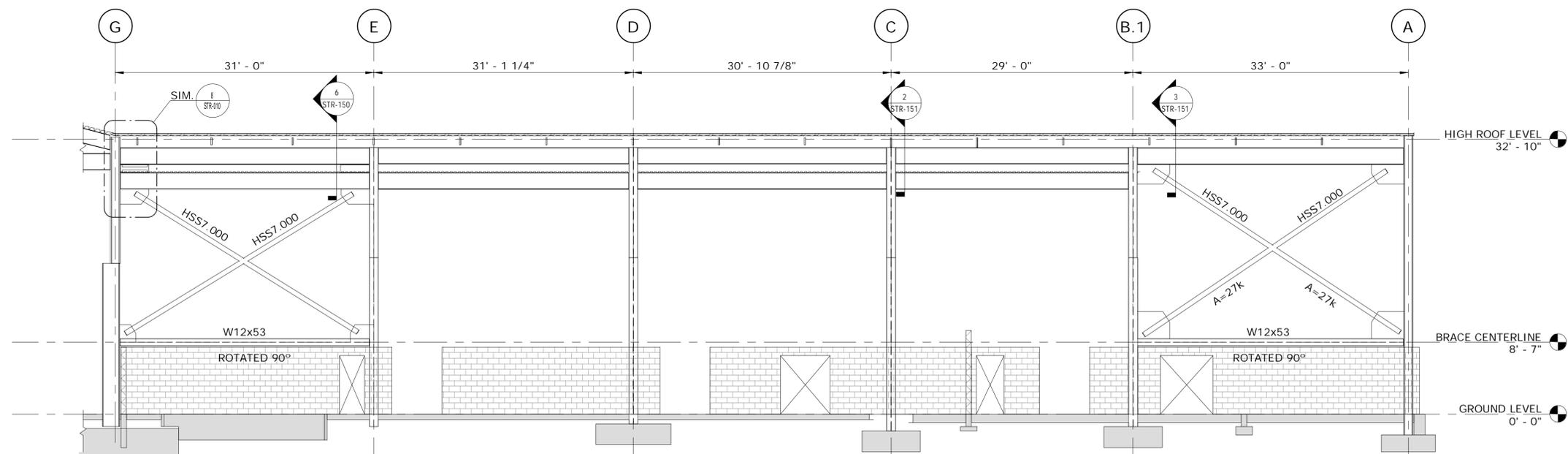
② ELEVATION ALONG COLUMN LINE G  
SCALE: 1/8" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:33 PM			DESIGNER/DRAFTER: <b>CPS/ AAO</b> CHECKED BY: <b>EVD</b> SCALE: 1/8" = 1'-0"	<b>STATE OF CONNECTICUT</b> DEPARTMENT OF TRANSPORTATION EXP. JT	SIGNATURE/ BLOCK: Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-132</b> SHEET NO. <b>07.43</b>	
REV.	DATE	REVISION DESCRIPTION	DRAWING TITLE: <b>FRAME ELEVATION ALONG COLUMN LINE G</b>						



① ELEVATION ALONG COLUMN LINE 21  
SCALE: 1/8" = 1'-0"

- NOTES:**
1. HSS7.000 - INDICATES HSS7.000x0.375 BRACE
  2. HSS7.500 - INDICATES HSS7.500x0.500 BRACE
  3. MF - INDICATES MOMENT FRAME CONNECTION.



② ELEVATION ALONG COLUMN LINE 18  
SCALE: 1/8" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/23/2014 3:05:35 PM

DESIGNER/DRAFTER:  
**CPS/ AAO**

CHECKED BY:  
**EVD**

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



Filename: C:\Revit1 2014\STRUCT\_CT\_DOT\_Rocky Hill Repair Facility\_Central Replace

SIGNATURE/  
BLOCK:

Kleinfelder  
500 Enterprise Drive  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

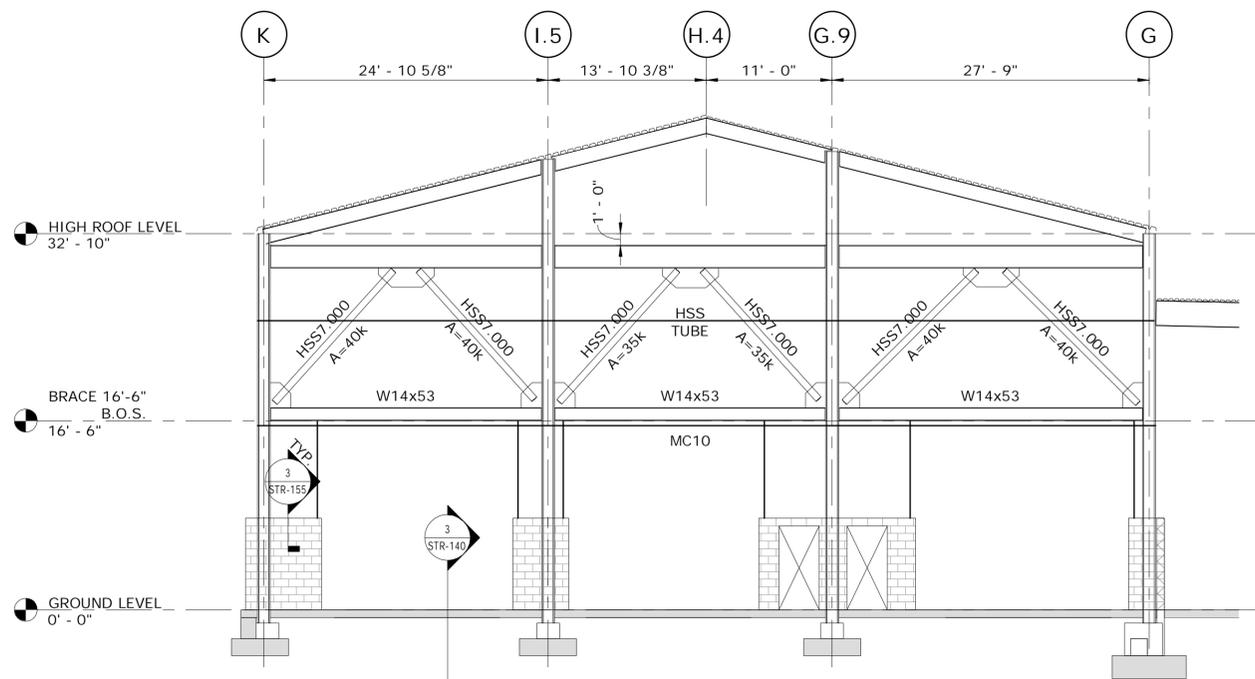
TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**FRAME ELEVATIONS ALONG COLUMN LINES 18 & 21**

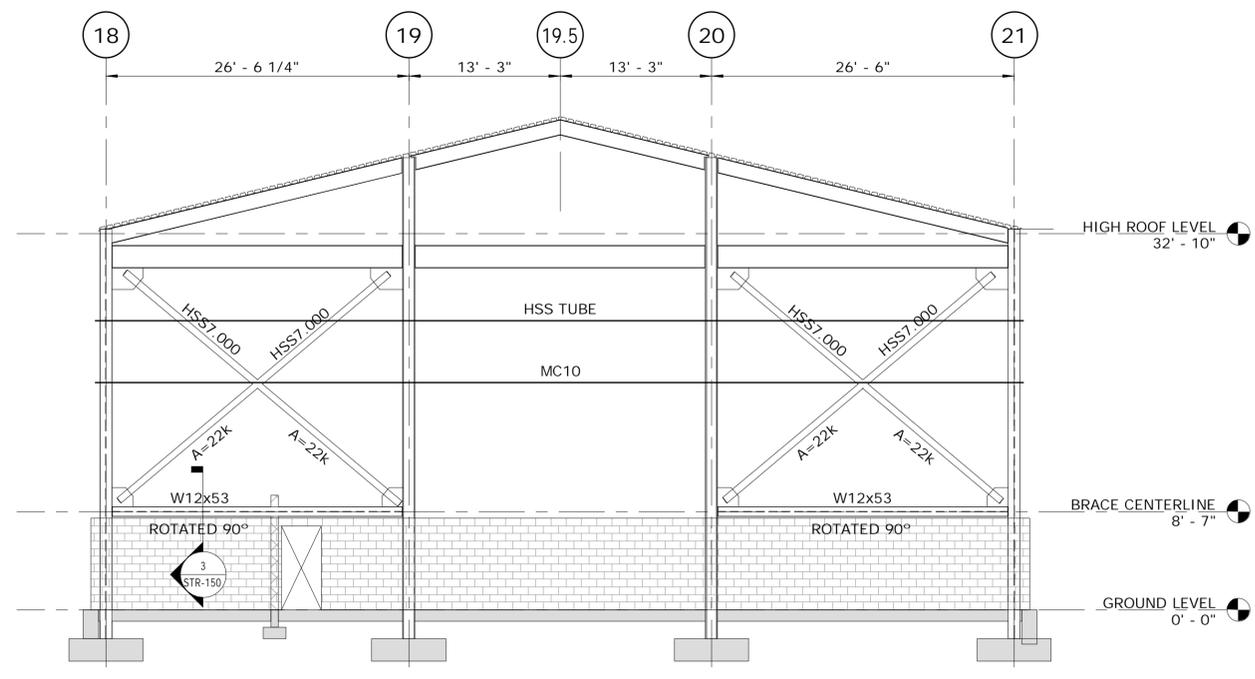
PROJECT NO.  
**118-167**

DRAWING NO.  
**STR-133**

SHEET NO.  
**07.44**

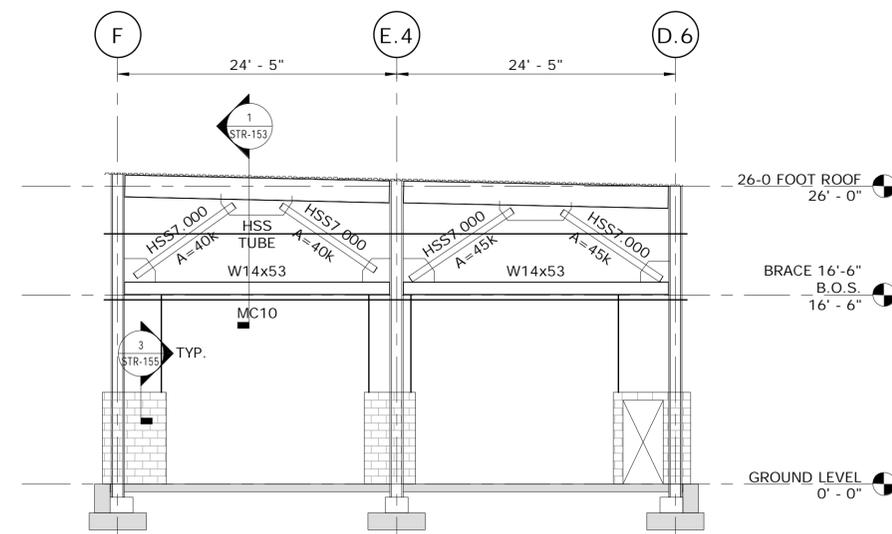


1 ELEVATION ALONG COLUMN LINE 4  
SCALE: 1/8" = 1'-0"



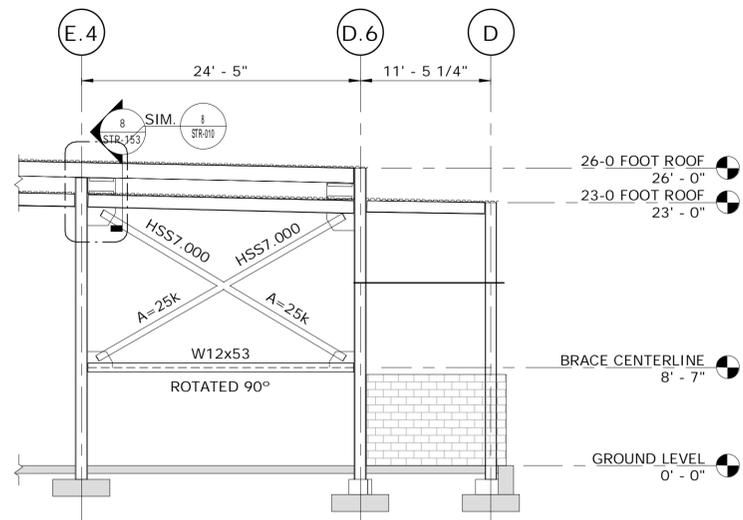
2 ELEVATION ALONG COLUMN LINE A  
SCALE: 1/8" = 1'-0"

- NOTES:**
- HSS7.000 - INDICATES HSS7.000x0.375 BRACE
  - HSS7.500 - INDICATES HSS7.500x0.500 BRACE
  - MF - INDICATES MOMENT FRAME CONNECTION.

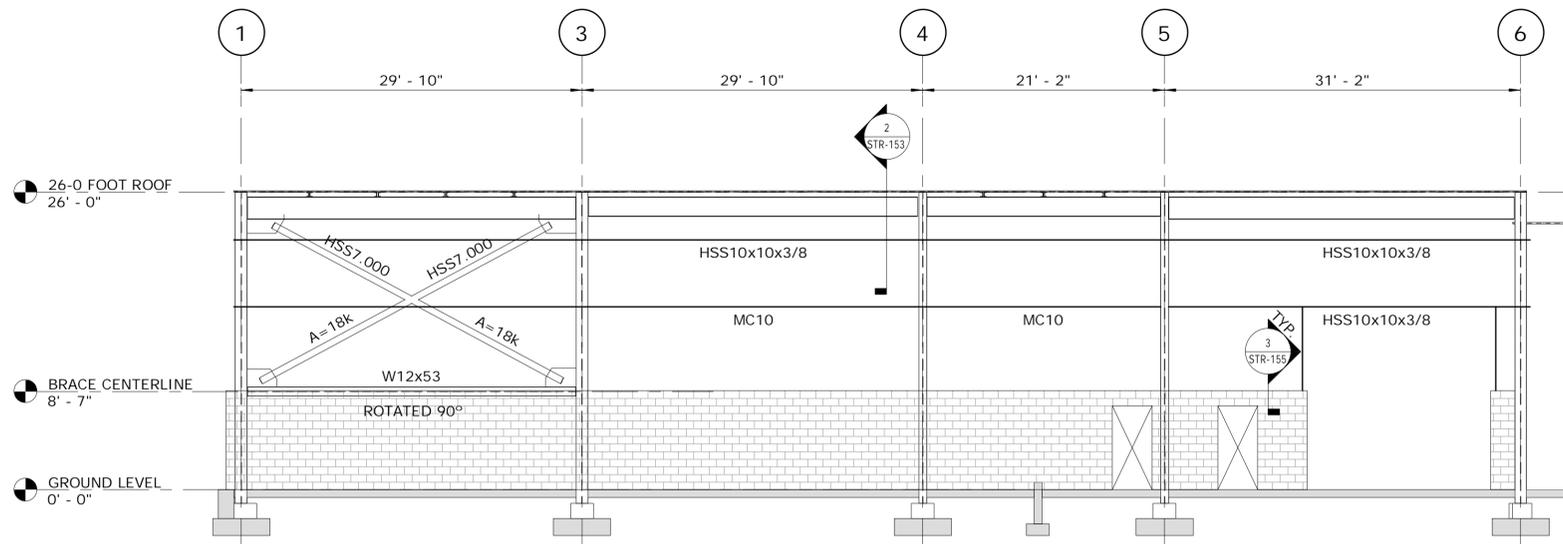


3 ELEVATION ALONG COLUMN GRID 1  
SCALE: 1/8" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:36 PM			DESIGNER/DRAFTER: <b>CPS/ AAO</b> CHECKED BY: <b>EVD</b> SCALE: 1/8" = 1'-0"	<b>STATE OF CONNECTICUT</b> DEPARTMENT OF TRANSPORTATION File name: C:\Revit 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-134</b> SHEET NO. <b>07.45</b>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.					



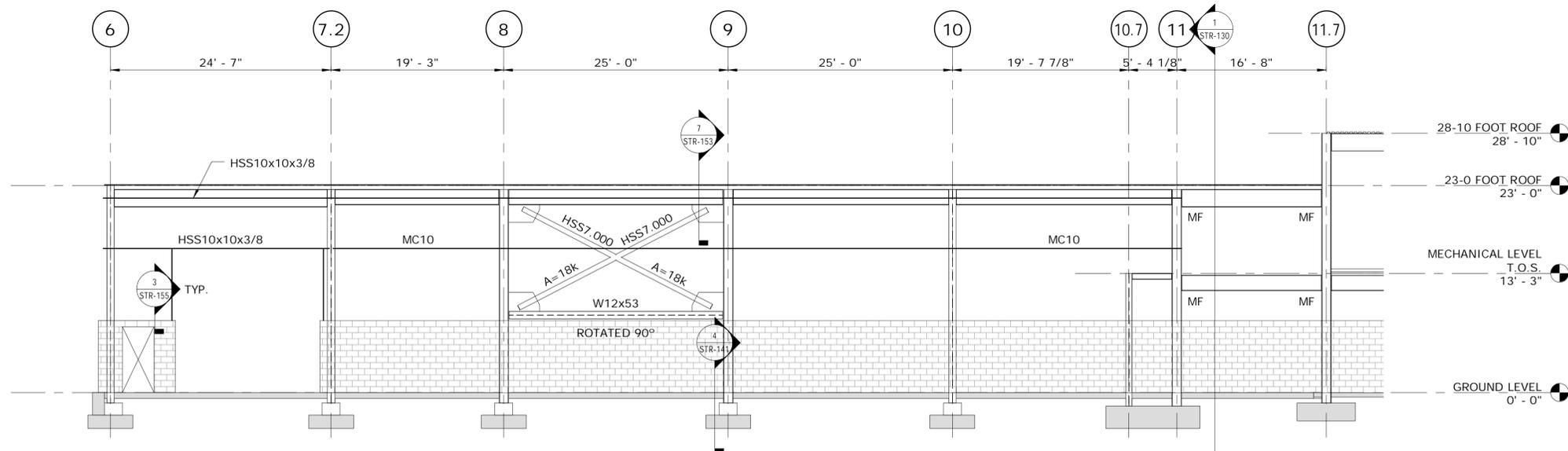
3 ELEVATION ALONG COLUMN LINE 6  
SCALE: 1/8" = 1'-0"



1 ELEVATION ALONG COLUMN LINE D.6  
SCALE: 1/8" = 1'-0"

NOTES:

1. HSS7.000 - INDICATES HSS7.000x0.375 BRACE
2. HSS7.500 - INDICATES HSS7.500x0.500 BRACE
3. MF - INDICATES MOMENT FRAME CONNECTION.



2 ELEVATION ALONG COLUMN LINE D  
SCALE: 1/8" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/23/2014 3:05:38 PM

DESIGNER/DRAFTER:  
**CPS/ AAO**

CHECKED BY:  
**EVD**

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

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

File name: C:\Revit 2014\STRUCT\_CT\_DOT\_Rocky Hill Repair Facility\_Central Replace

SIGNATURE/  
BLOCK:

Kleinfelder  
500 Enterprise Drive  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

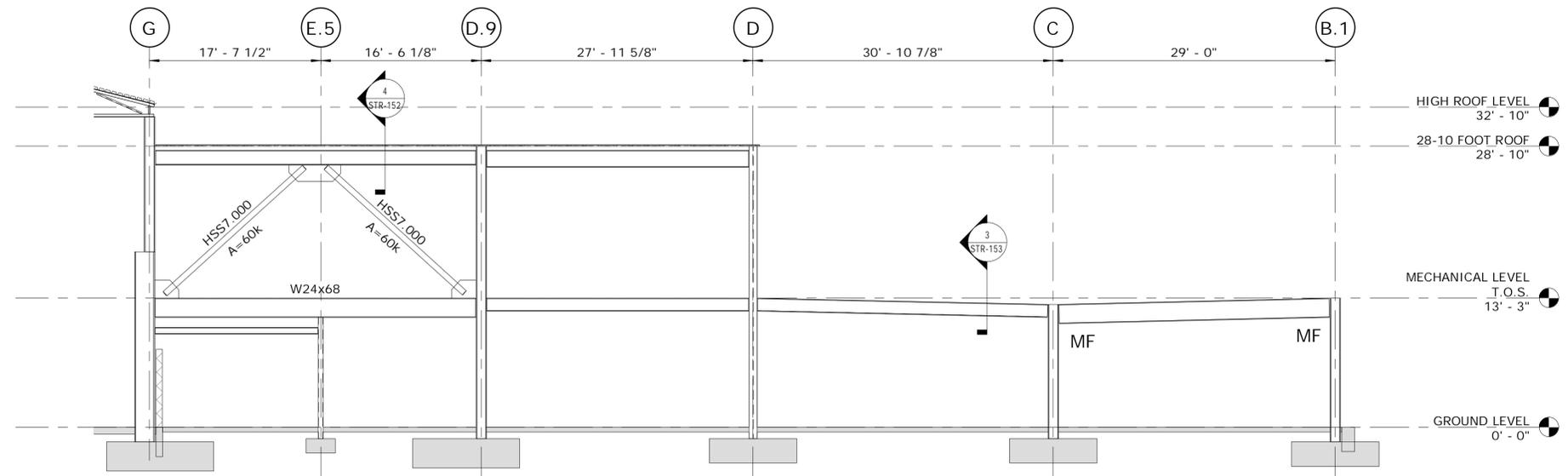
TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**FRAME ELEVATIONS ALONG COLUMN LINES D, D.6 & 6.2**

PROJECT NO.  
**118-167**

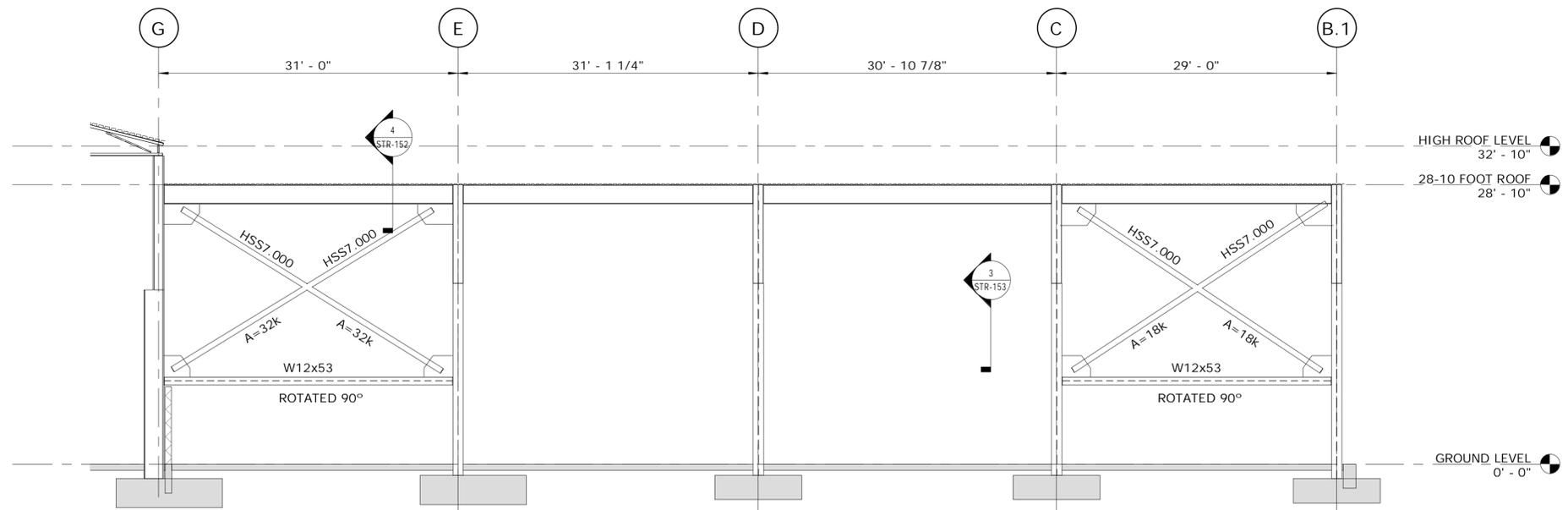
DRAWING NO.  
**STR-135**

SHEET NO.  
**07.46**



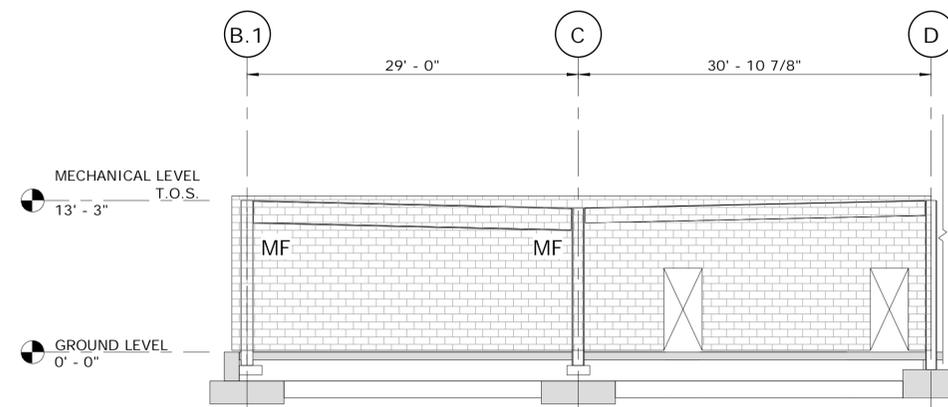
1 ELEVATION ALONG COLUMN LINE 14.5  
SCALE: 1/8" = 1'-0"

NOTES:  
 1. HSS7.000 - INDICATES HSS7.000x0.375 BRACE  
 2. HSS7.500 - INDICATES HSS7.500x0.500 BRACE  
 3. MF - INDICATES MOMENT FRAME CONNECTION.

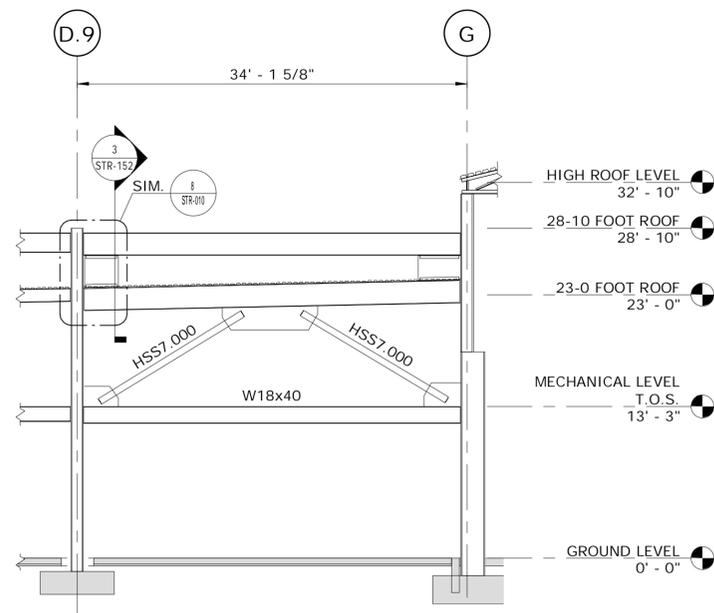


2 ELEVATION ALONG COLUMN LINE 14.6  
SCALE: 1/8" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:39 PM			DESIGNER/DRAFTER: <b>CPS/ AAO</b> CHECKED BY: <b>EVD</b> SCALE: 1/8" = 1'-0"	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION File name: C:\Revit1 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace	SIGNATURE/ BLOCK: Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-136</b> SHEET NO. <b>07.47</b>	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.						

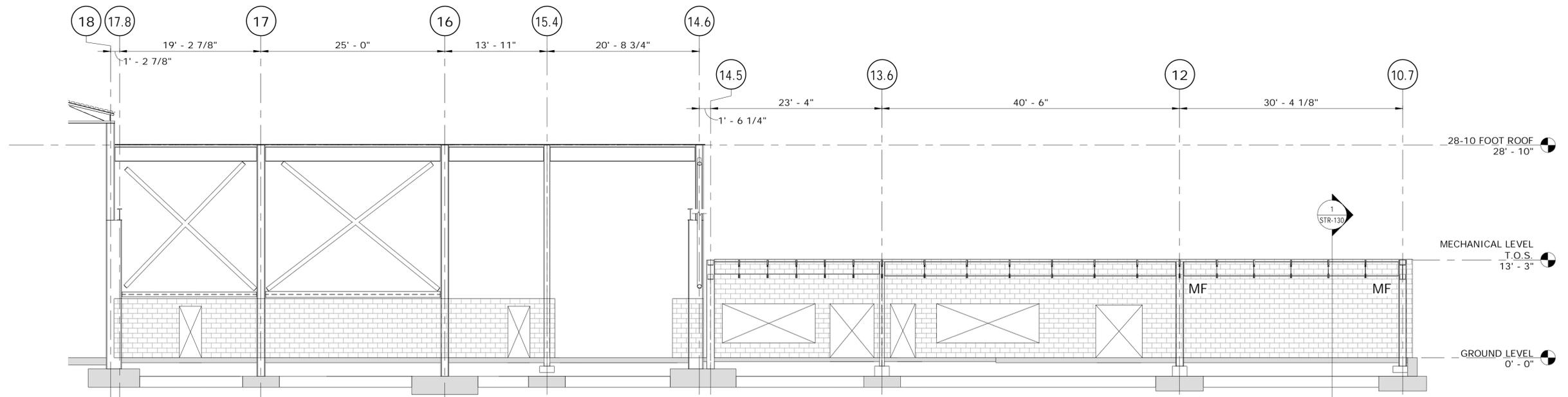


2 ELEVATION ALONG COLUMN GRID 10.7  
SCALE: 1/8" = 1'-0"



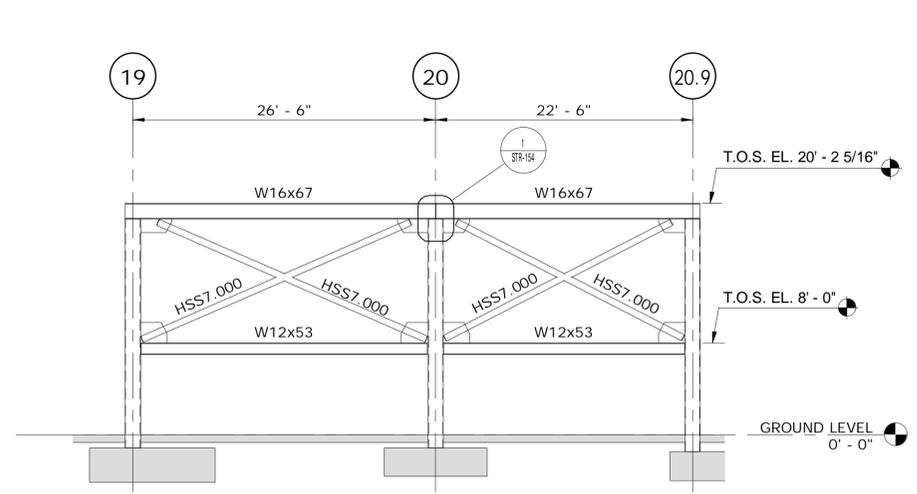
3 ELEVATION ALONG COLUMN GRID 11.7  
SCALE: 1/8" = 1'-0"

- NOTES:
1. HSS7.000 - INDICATES HSS7.000x0.375 BRACE
  2. HSS7.500 - INDICATES HSS7.500x0.500 BRACE
  3. MF - INDICATES MOMENT FRAME CONNECTION.

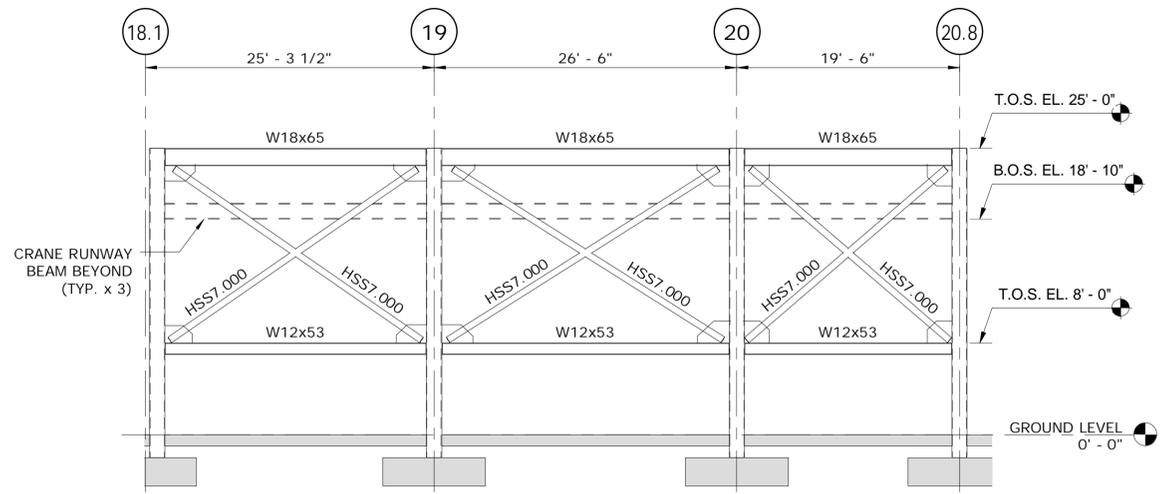


1 ELEVATION ALONG COLUMN GRID B.1  
SCALE: 1/8" = 1'-0"

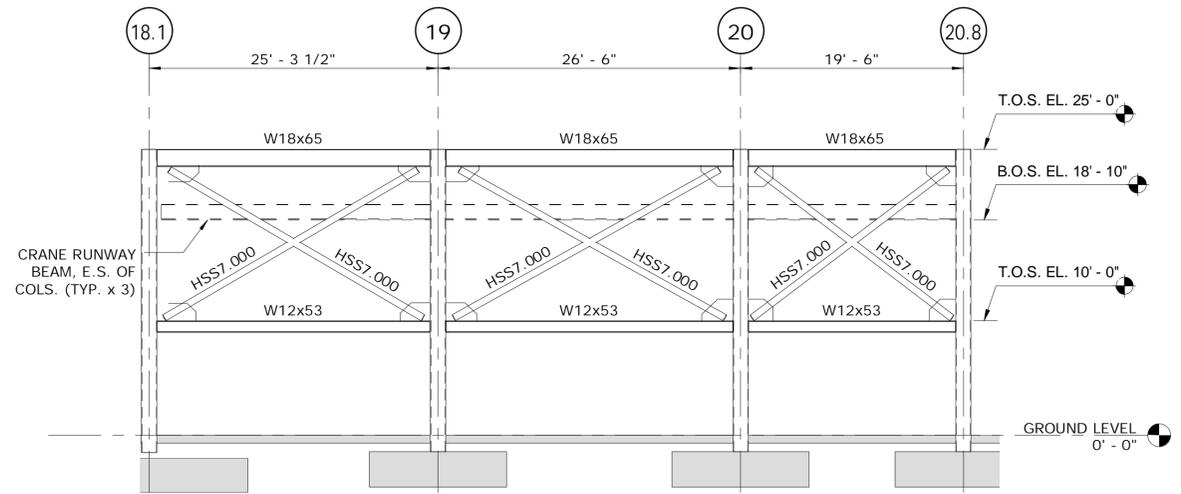
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:40 PM			DESIGNER/DRAFTER: <b>CPS/JFC</b> CHECKED BY: <b>EVD</b> SCALE: 1/8" = 1'-0"	<b>STATE OF CONNECTICUT</b> DEPARTMENT OF TRANSPORTATION Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	SIGNATURE/ BLOCK: 	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-137</b> SHEET NO. <b>07.48</b>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	DRAWING TITLE: <b>FRAME ELEVATIONS ALONG GRIDS B.1, 10.7 &amp; 11.7</b>				



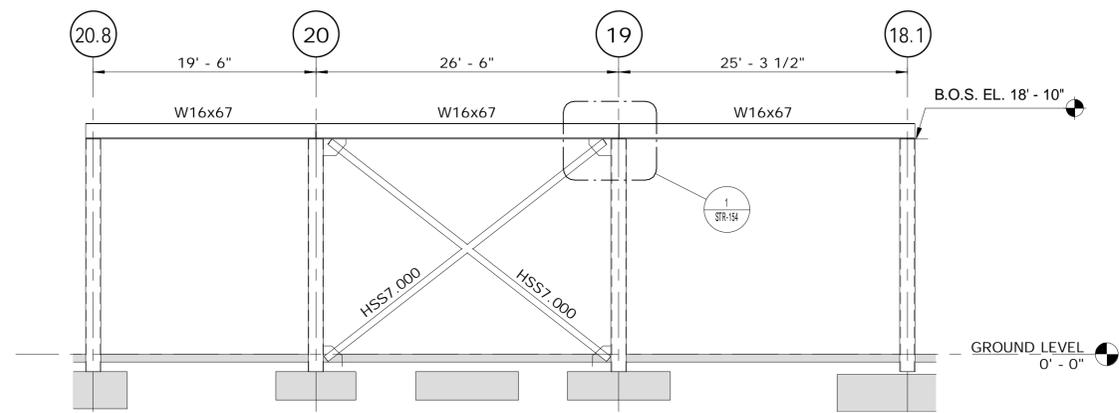
1 OVERHEAD CRANE ELEVATION ALONG COLUMN GRID H.1  
SCALE: 1/8" = 1'-0"



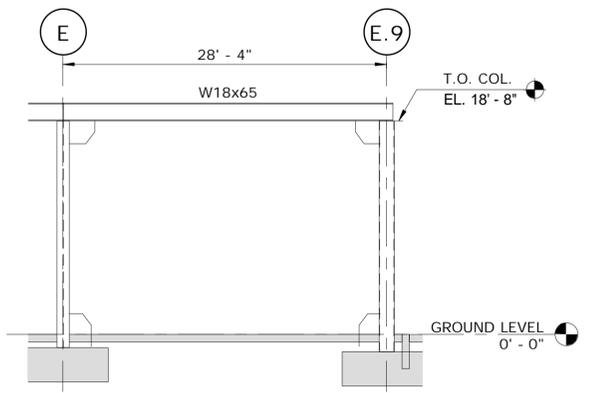
2 OVERHEAD CRANE ELEVATION ALONG COLUMN GRID B.8  
SCALE: 1/8" = 1'-0"



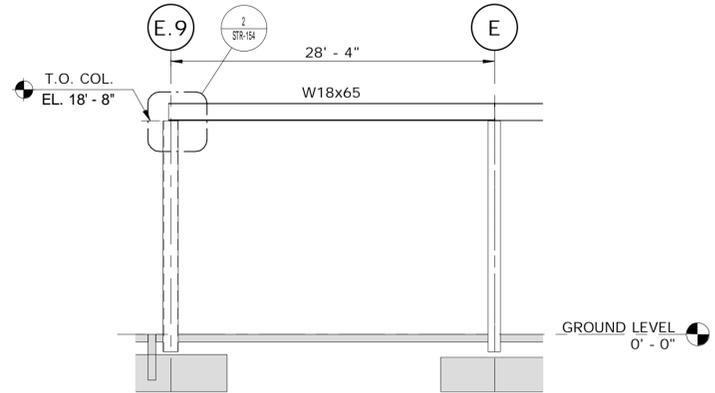
3 OVERHEAD CRANE ELEVATION ALONG COLUMN GRID D.8  
SCALE: 1/8" = 1'-0"



4 OVERHEAD CRANE ELEVATION ALONG COLUMN GRID E.9  
SCALE: 1/8" = 1'-0"

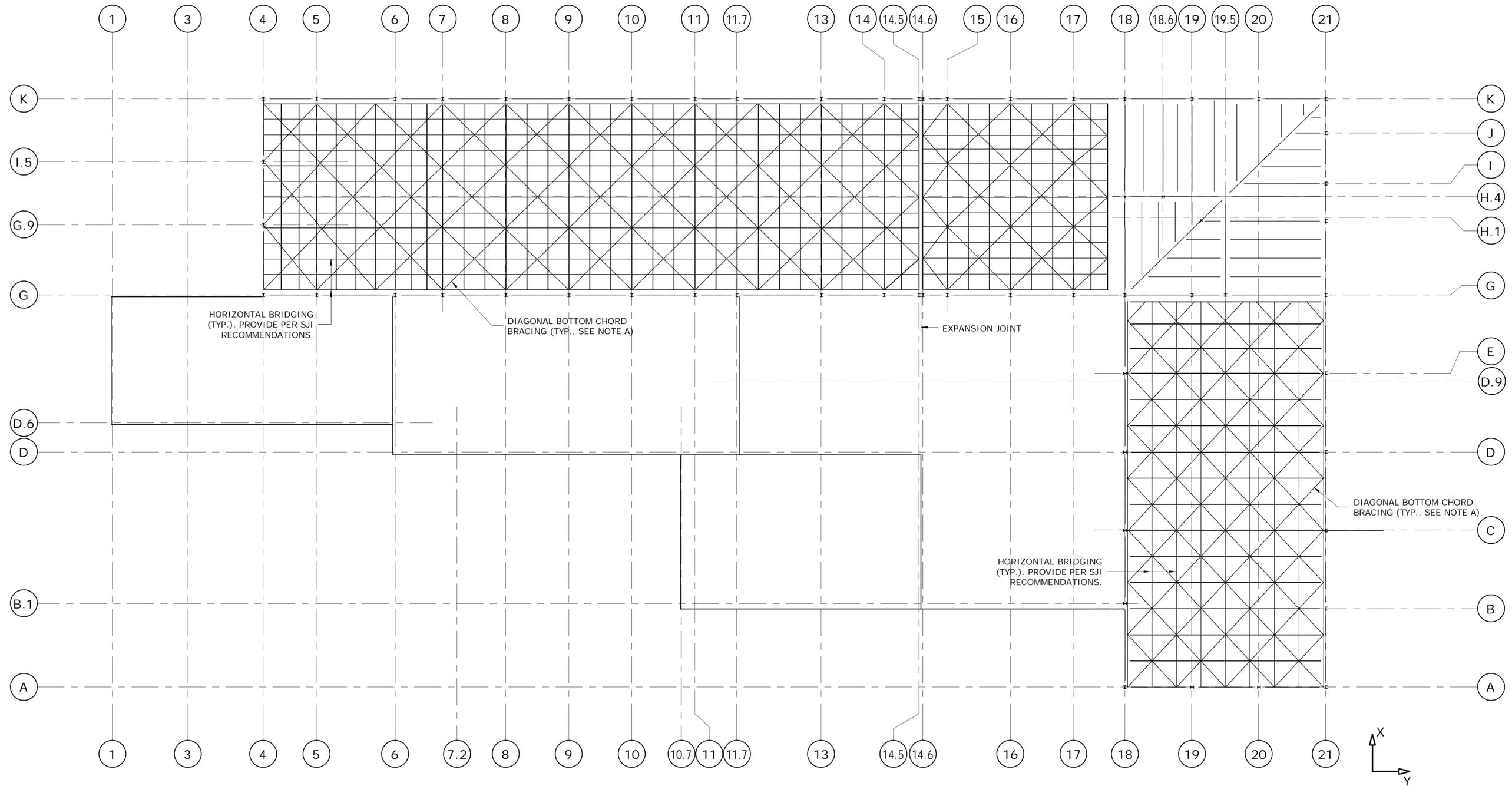


5 OVERHEAD CRANE ELEVATION ALONG COLUMN GRID 14.8  
SCALE: 1/8" = 1'-0"



6 OVERHEAD CRANE ELEVATION ALONG 17.8  
SCALE: 1/8" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.			DESIGNER/DRAFTER: <b>CMG/ JFC</b> CHECKED BY: <b>EVD</b> SCALE: 1/8" = 1'-0"	<b>STATE OF CONNECTICUT</b> DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-138</b> SHEET NO. <b>07.49</b>	
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 10/23/2014 3:05:42 PM Filename: C:\Revit1 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace						



1 BOTTOM CHORD BRIDGING/BRACING PLAN  
SCALE: 3/64" = 1'-0"

NOTE:

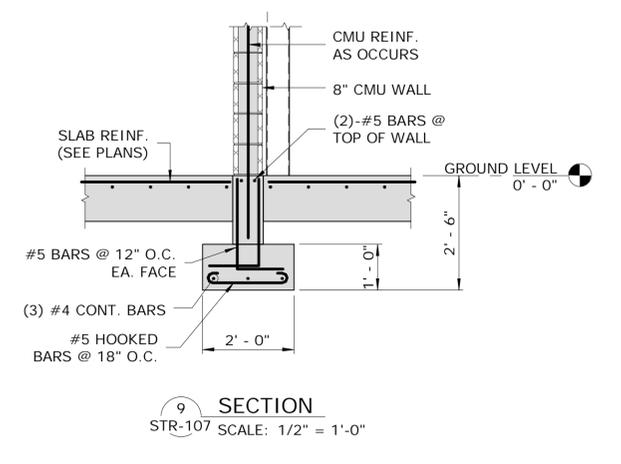
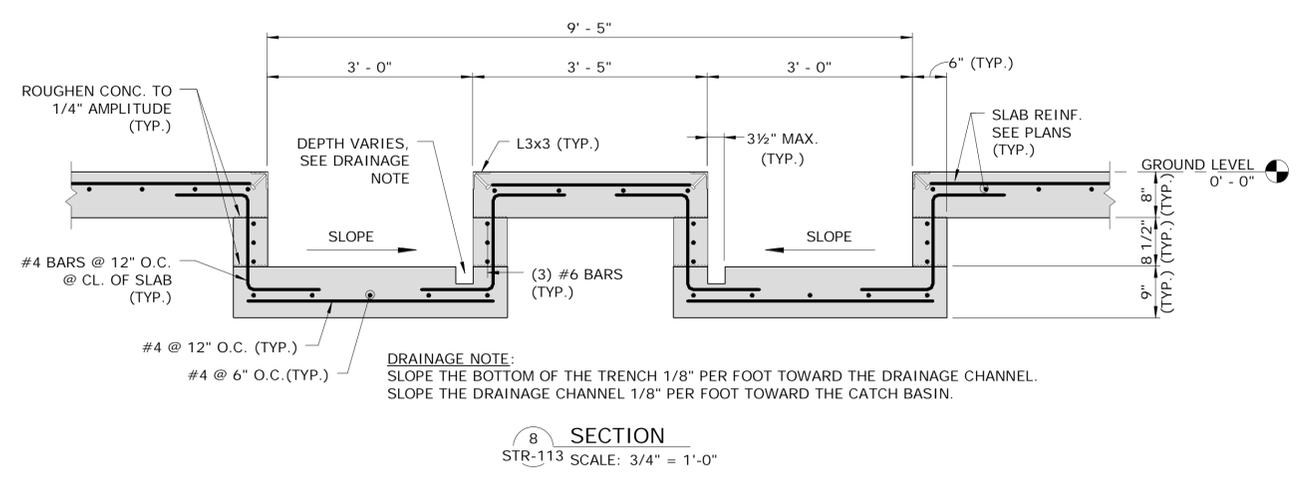
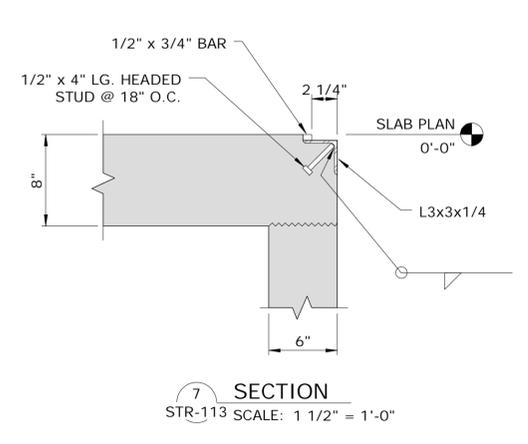
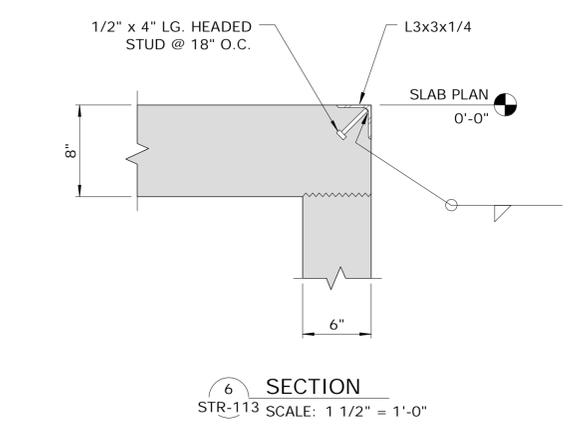
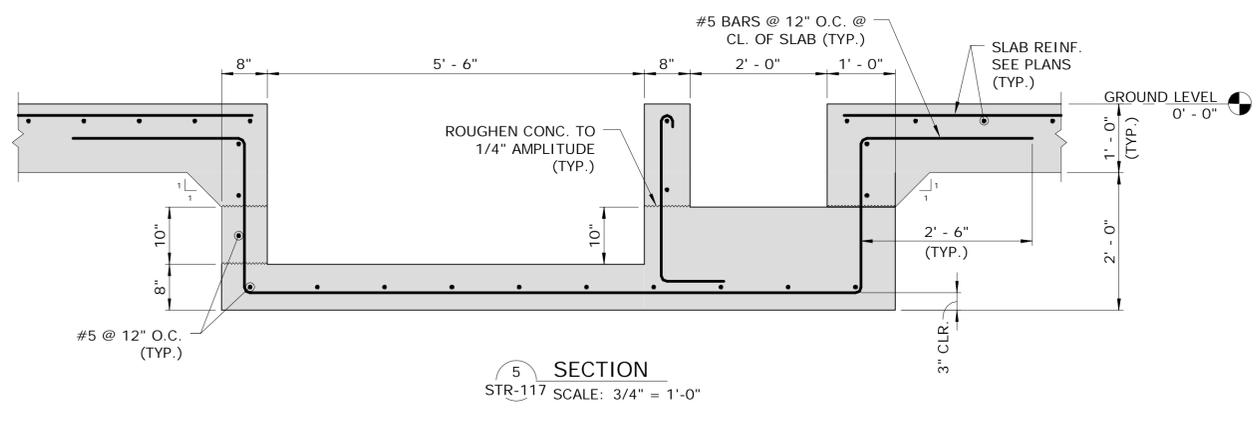
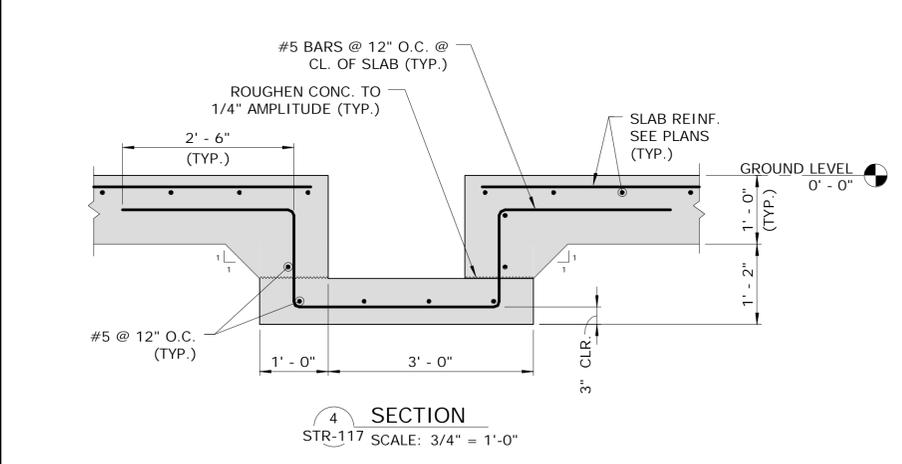
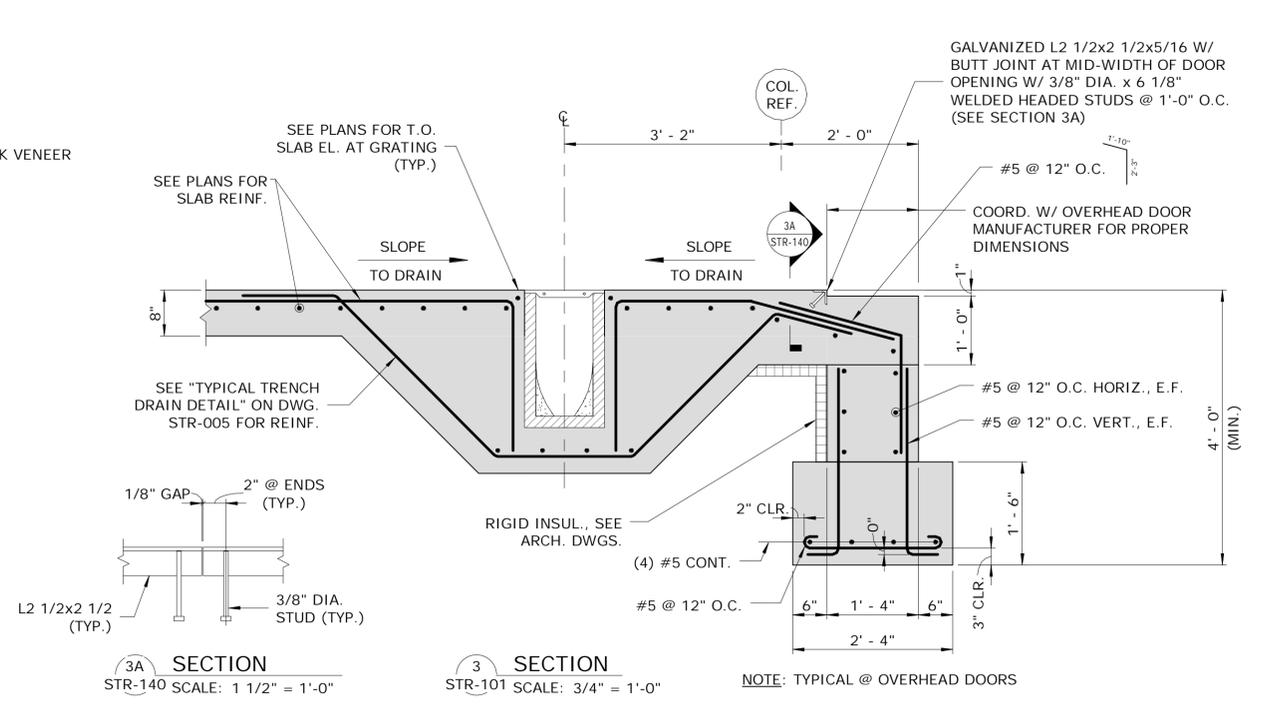
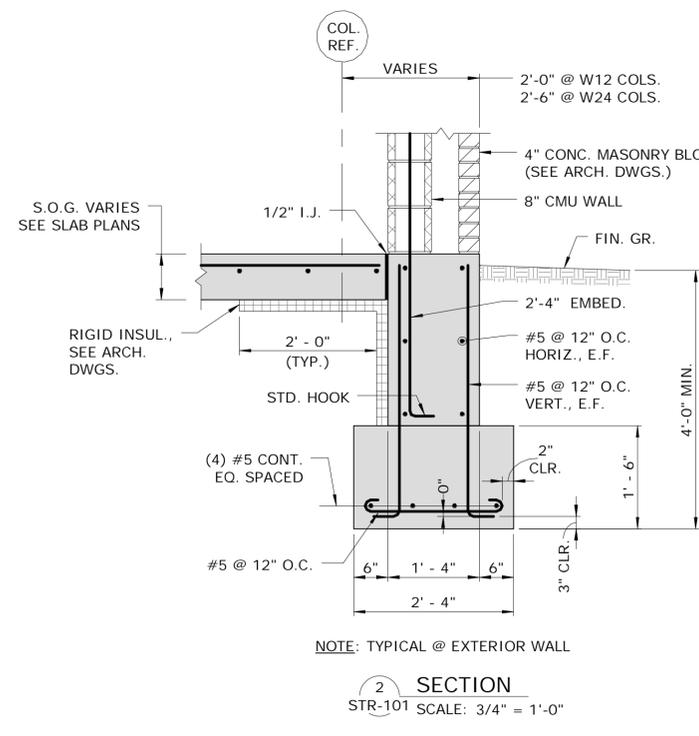
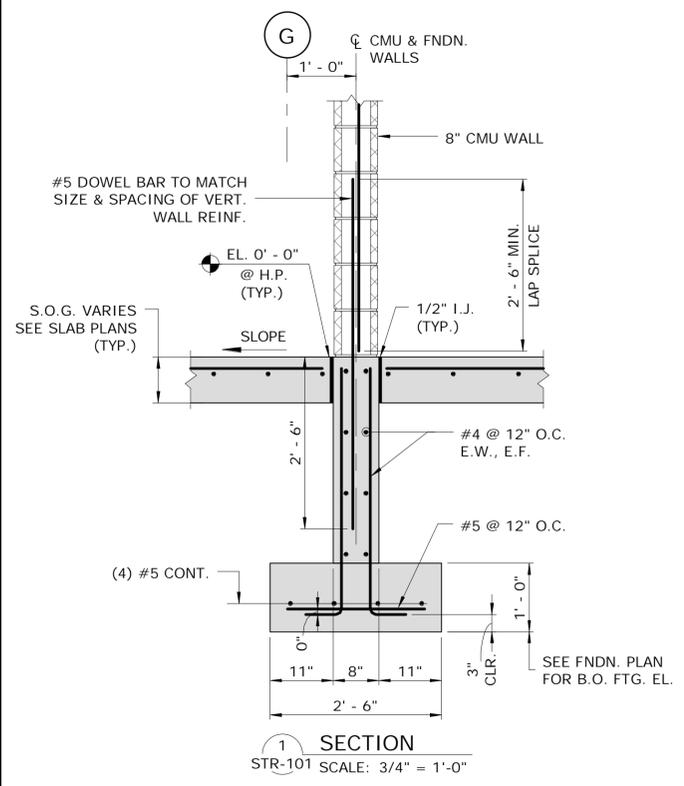
BOTTOM CHORD BRIDGING SIZES AND CONNECTIONS TO THE JOISTS TO BE DESIGNED BY THE JOIST MANUFACTURER. MINIMUM ANGLE SIZE OF DIAGONAL BRACING SHALL BE L6x6x3/8.

DESIGN FORCES:

RIGHT SIDE OF EXPANSION JOINT  
X-DIR: FACTORED LATERAL LOAD OF 1,000 LBS/FT  
Y-DIR: FACTORED LATERAL LOAD OF 1,000 LBS/FT

LEFT SIDE OF EXPANSION JOINT  
X-DIR: FACTORED LATERAL LOAD OF 1,600 LBS/FT  
Y-DIR: FACTORED LATERAL LOAD OF 900 LBS/FT

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:43 PM	DESIGNER/DRAFTER: <b>CPS/JFC</b>	 <b>STATE OF CONNECTICUT</b> DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE:  <b>REPAIR FACILITY</b>	TOWN:  <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b>
					CHECKED BY: <b>EVD</b>					
					SCALE: 3/64" = 1'-0"	FILENAME: C:\Revit 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace				SHEET NO. <b>07.50</b>



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/23/2014 3:05:46 PM

DESIGNER/DRAFTER:  
**CPS/JFC**

CHECKED BY:  
**EVD**

SCALE: As indicated



PROJECT TITLE:  
**REPAIR FACILITY**

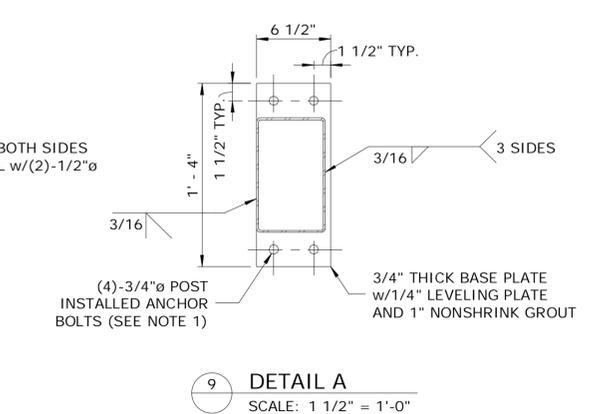
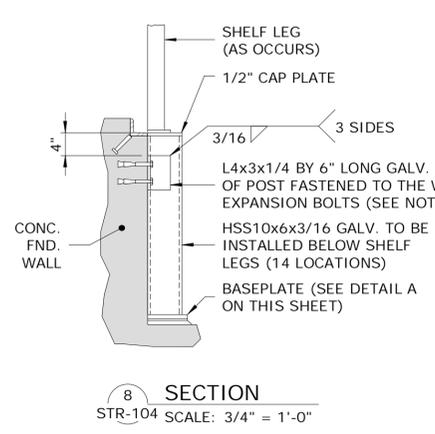
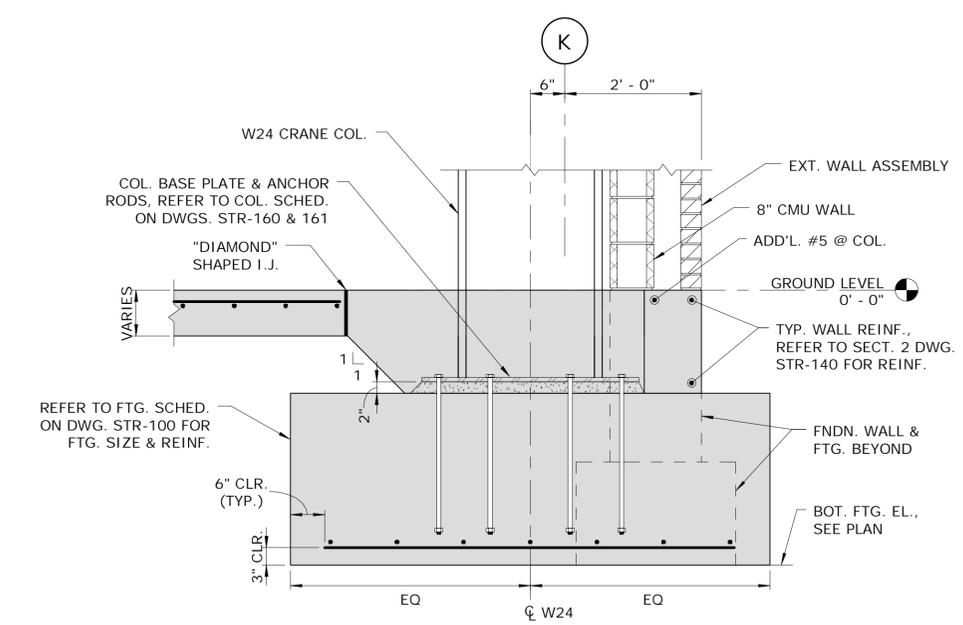
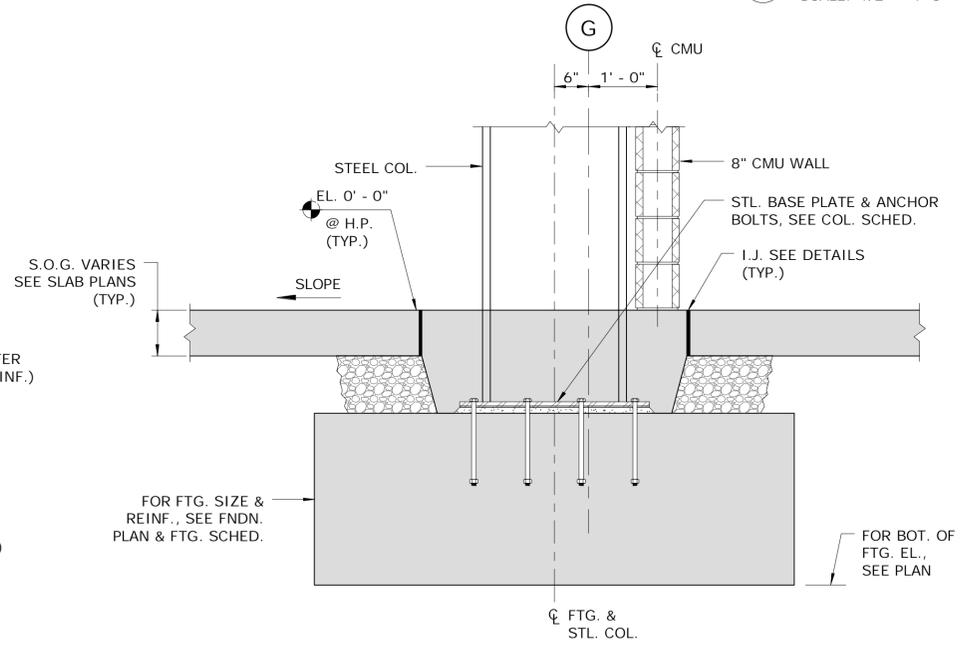
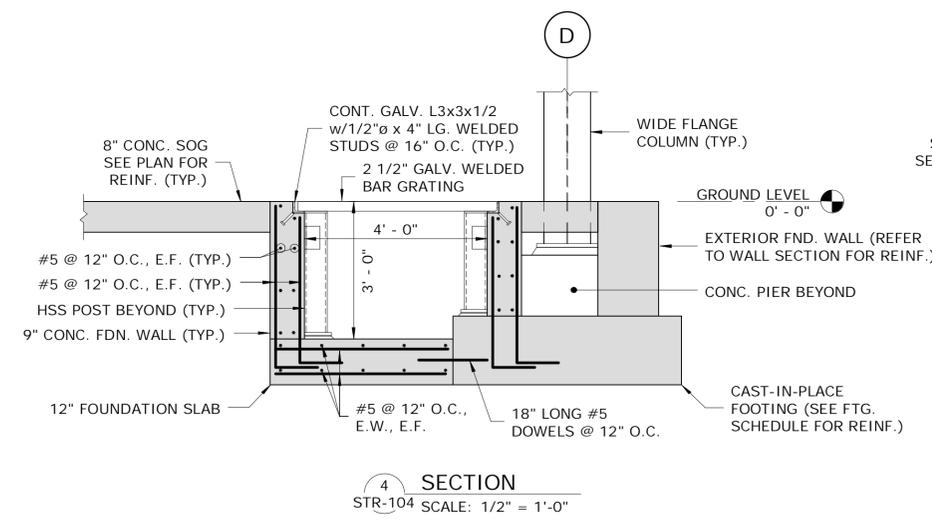
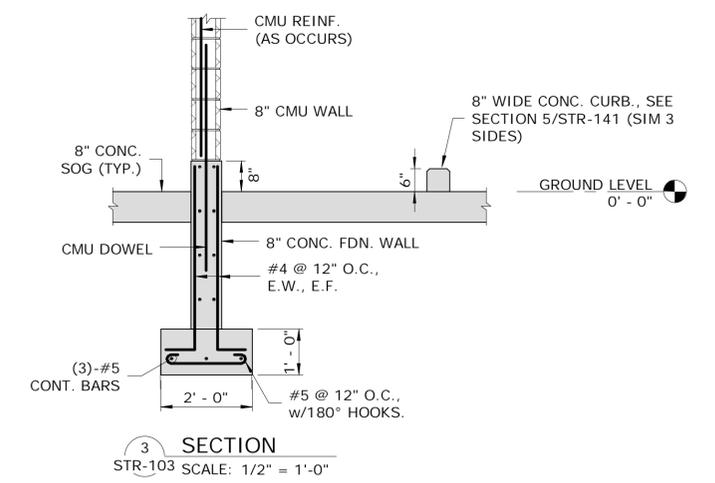
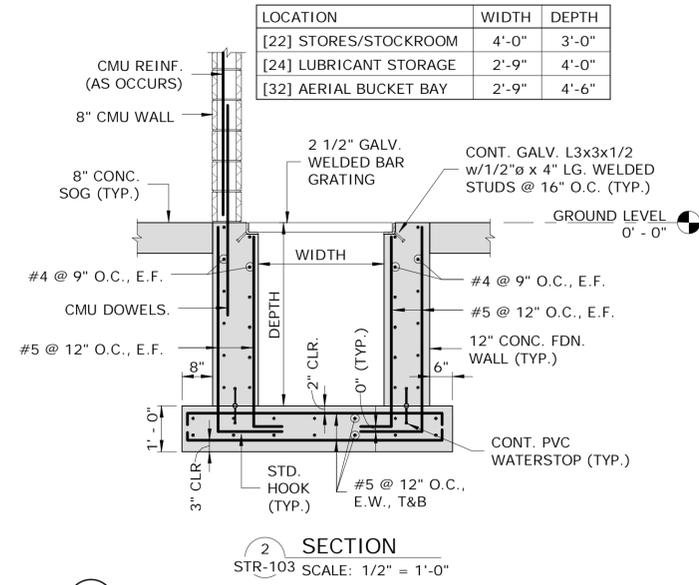
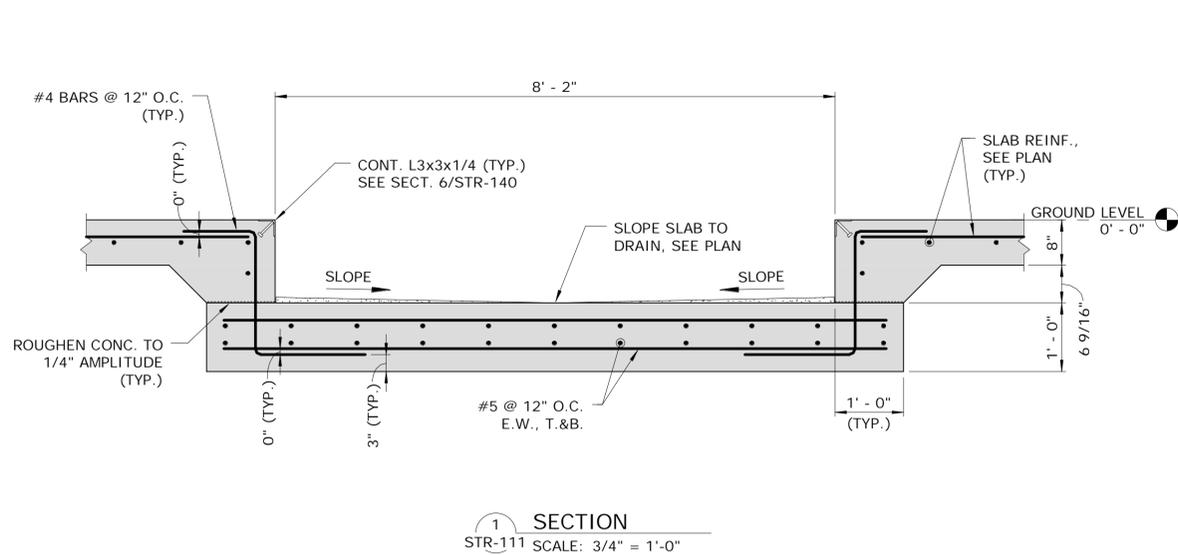
TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**FOUNDATION SECTIONS & DETAILS I**

PROJECT NO.  
**118-167**

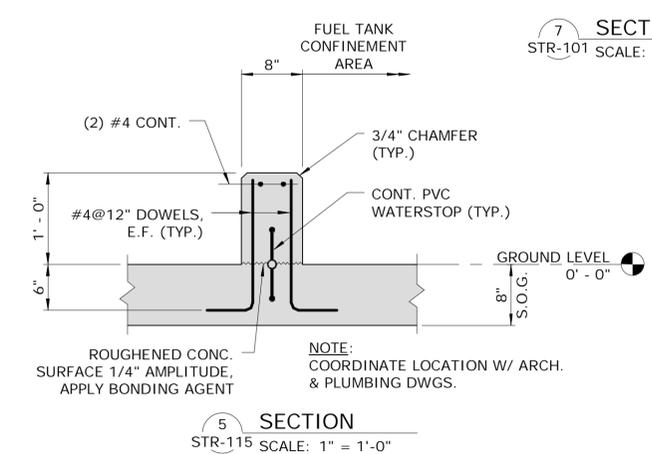
DRAWING NO.  
**STR-140**

SHEET NO.  
**07.51**

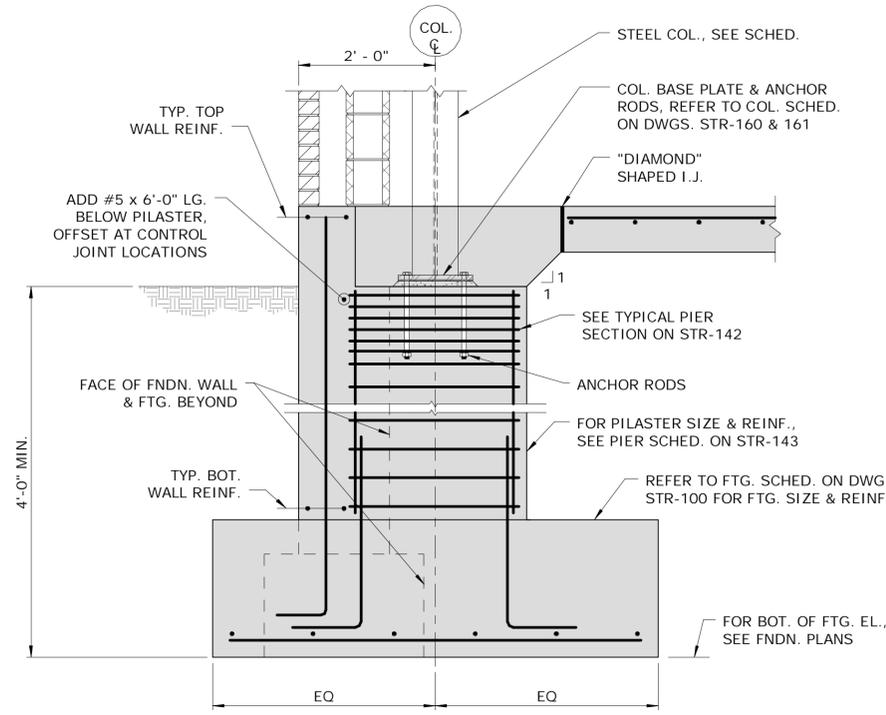


BASIS OF DESIGN FOR POST-INSTALLED ANCHORS IS CARBON STEEL HILTI KWIK BOLT TZ w/3 1/4" EMBEDMENT. IF THE CONTRACTOR ELECTS TO USE AN ALTERNATE ANCHOR, THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS FOR ALL CAST-IN-PLACE CONCRETE SUPPORT ANCHORS WITH THE PROPOSED ANCHOR, STAMPED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT FOR APPROVAL BY THE DESIGNER. USE THE FOLLOW CRITERIA FOR DESIGN, IF SUBMITTING AN ALTERNATE ANCHOR.

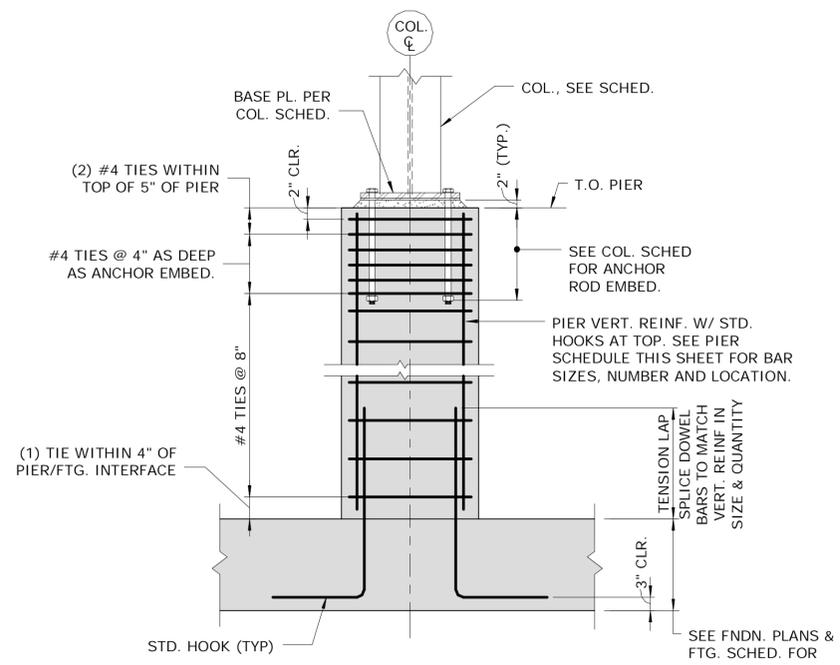
- A. CONCRETE STRENGTH = 4,000 PSI
- B. CRACKED CONCRETE
- C. NORMAL WEIGHT CONCRETE
- D. SHEAR = 500 LBS, TENSION = 500 LBS



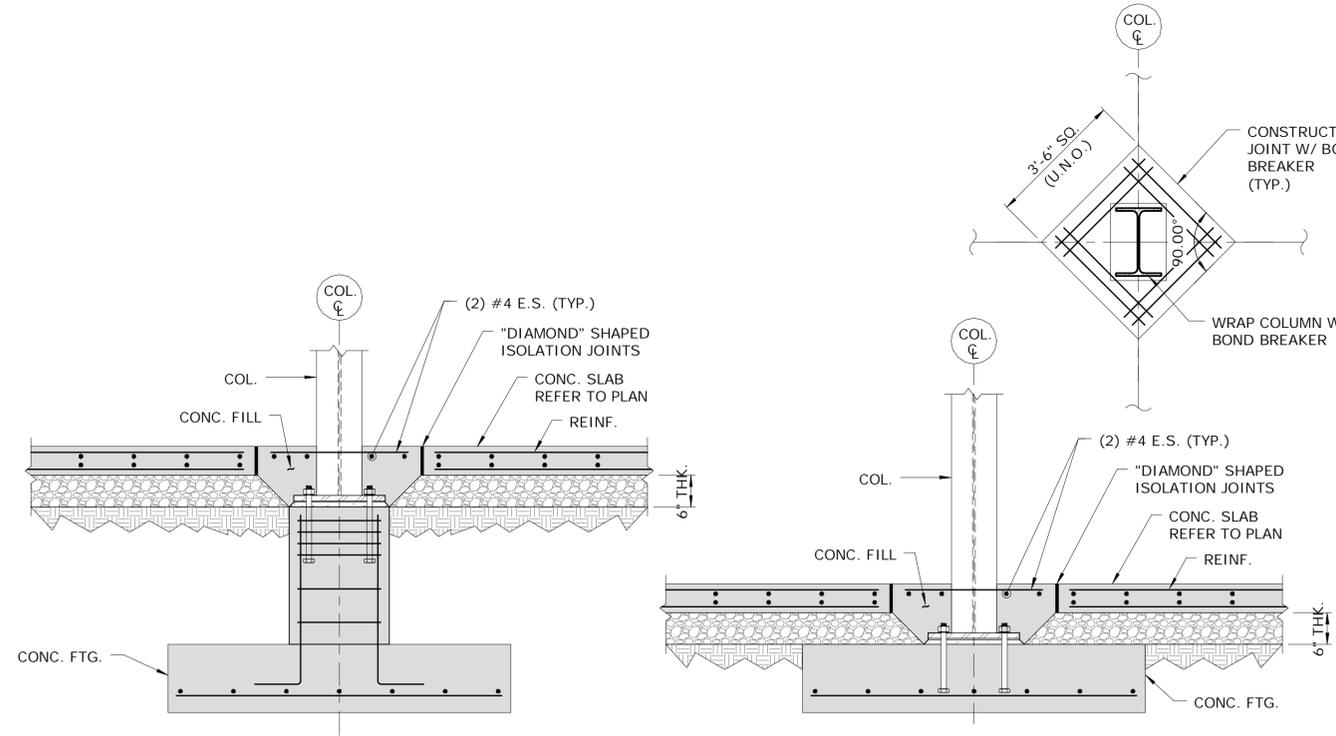
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:48 PM	DESIGNER/DRAFTER: <b>CPS/JFC</b> CHECKED BY: <b>EVD</b> SCALE: As indicated	<b>STATE OF CONNECTICUT</b> DEPARTMENT OF TRANSPORTATION File name: C:\Revit\2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace	SIGNATURE/ BLOCK: Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-141</b> SHEET NO. <b>07.52</b>
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**TYPICAL COLUMN FOUNDATION DETAIL**  
SCALE: N.T.S.



**TYPICAL PIER SECTION**  
SCALE: N.T.S.



**TYPICAL SLAB-ON-GRADE ISOLATION JOINT DETAILS AT STEEL COLUMN**  
SCALE: N.T.S.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 10/23/2014 3:05:50 PM

DESIGNER/DRAFTER:  
**CMG/ JFC**  
CHECKED BY:  
**EVD**  
SCALE: As indicated


**STATE OF CONNECTICUT**  
 DEPARTMENT OF TRANSPORTATION

Filename: C:\Revit 2014\STRUCT\_CT\_DOT\_Rocky Hill Repair Facility\_Central Replace

SIGNATURE/  
BLOCK:



Kleinfelder  
500 Enterprise Drive  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

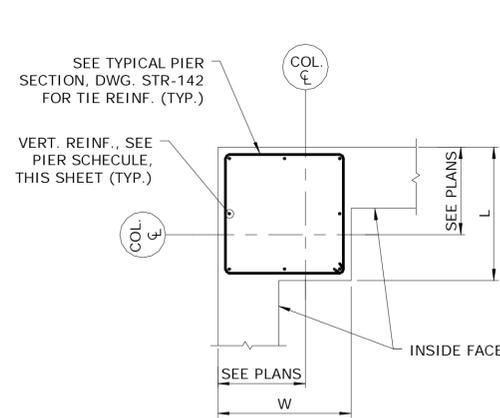
TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**TYPICAL CONCRETE PIER DETAILS**

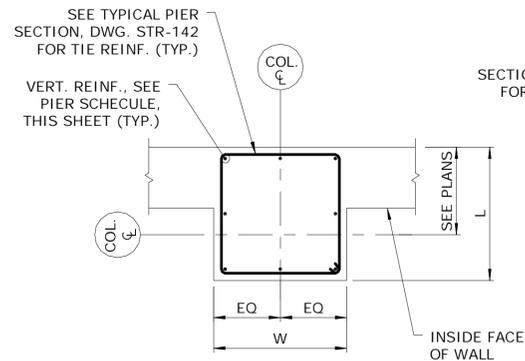
PROJECT NO.  
**118-167**

DRAWING NO.  
**STR-142**

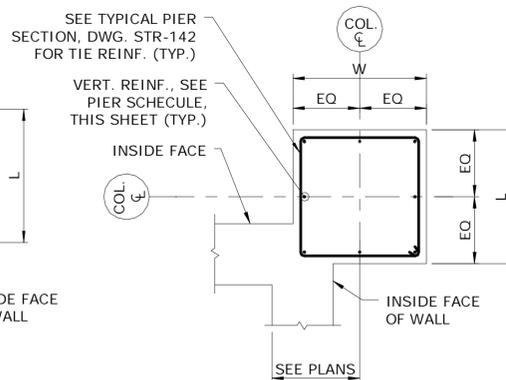
SHEET NO.  
**07.53**



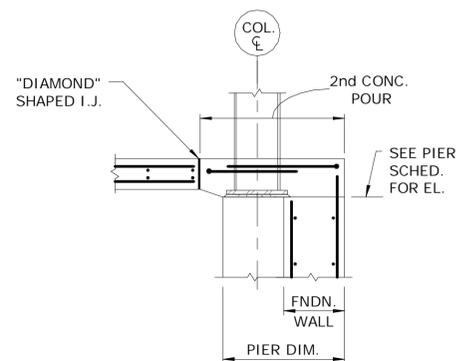
**TYPICAL CORNER PIER DETAIL**  
SCALE: N.T.S.



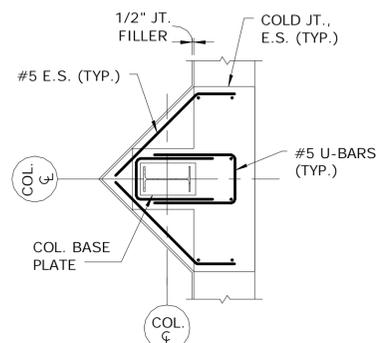
**TYPICAL PERIMETER PIER DETAIL**  
SCALE: N.T.S.



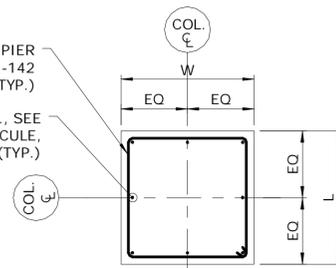
**TYPICAL RE-ENTRANT CORNER PIER DETAIL**  
SCALE: N.T.S.



**TOP OF PERIMETER PIER DETAILS**  
SCALE: N.T.S.

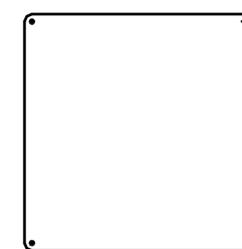


SEE TYPICAL PIER SECTION, DWG. STR-142 FOR TIE REINF. (TYP.)  
VERT. REINF., SEE PIER SCHEDULE, THIS SHEET (TYP.)

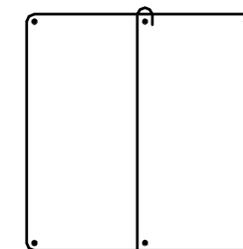


**TYPICAL INTERIOR PIER DETAIL**  
SCALE: N.T.S.

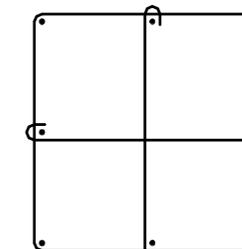
PIER SCHEDULE					
	COLUMN DESIGNATION	W	L	T.O. PIER EL.	VERTICAL REINFORCING
PART A	G-4	2'-0"	2'-8"	-1'-2"	(10) #7
	G-9-4, I.5-4, K-5	2'-0"	3'-4"	-1'-2"	(10) #7
	K-4	3'-4"	3'-4"	-1'-2"	(10) #7
PART B	I-21, J-21	2'-0"	3'-4"	-1'-2"	(10) #7
PART C	D.6-1, F-1	3'-4"	3'-4"	-1'-2"	(12) #7
	D.6-3, D.6-4, D.6-5, E.4-1, F-3	2'-0"	3'-4"	-1'-2"	(10) #7
PART D	D-6	3'-4"	3'-4"	-1'-2"	(12) #7
	D.6-6	2'-0"	2'-0"	-1'-2"	(8) #7
	D-7.2, D-8, D-9, D-10	2'-0"	3'-4"	-1'-2"	(10) #7
PART E	B.1-10.7	3'-4"	3'-4"	-1'-2"	(12) #7
	B.1-12, B.1-13.6, C-10.7	2'-0"	3'-4"	-1'-2"	(10) #7
PART F	B.1-15.4, B.1-17, D-21, E-21	2'-0"	3'-4"	-1'-2"	(10) #7
	C-21	2'-0"	3'-4"	-1'-6"	(10) #7



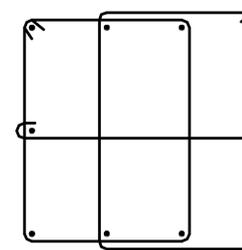
4 BAR



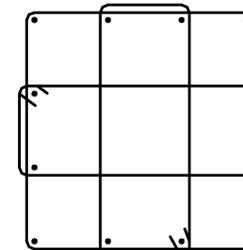
6 BAR



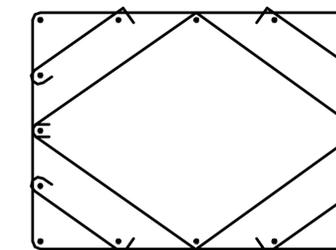
8 BAR



10 BAR



12 BAR



16 BAR

**PIER/PILASTER BAR PATTERNS**  
SCALE: N.T.S.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 10/23/2014 3:05:51 PM

DESIGNER/DRAFTER:  
**CMG/ JFC**  
CHECKED BY:  
**EVD**  
SCALE: As indicated

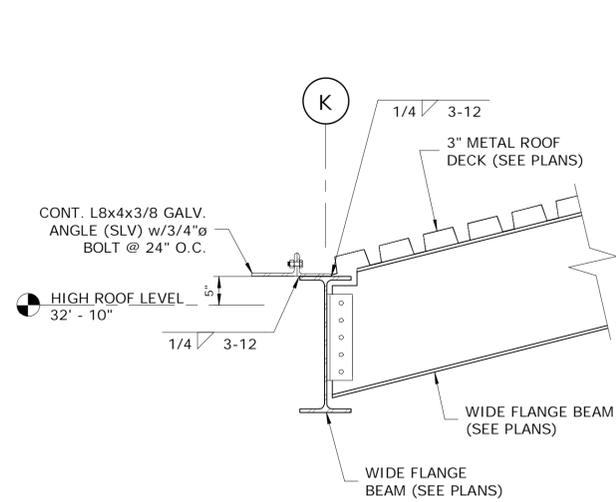
 **STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**  
Filename: C:\Revit 2014\STRUCT\_CT\_DOT\_Rocky Hill Repair Facility\_Central Replace

SIGNATURE/  
BLOCK:  
 Kleinfelder  
500 Enterprise Drive  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

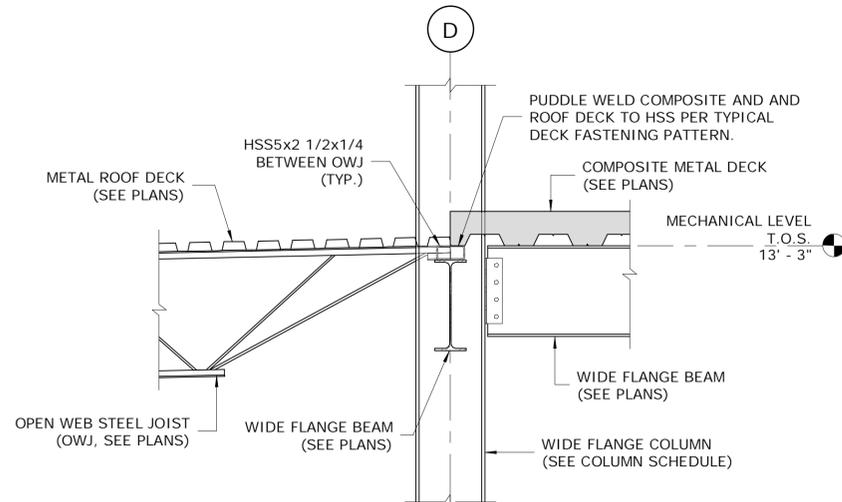
TOWN:  
**ROCKY HILL**  
DRAWING TITLE:  
**CONCRETE PIER DETAILS & SCHEDULE**

PROJECT NO.  
**118-167**  
DRAWING NO.  
**STR-143**  
SHEET NO.  
**07.54**

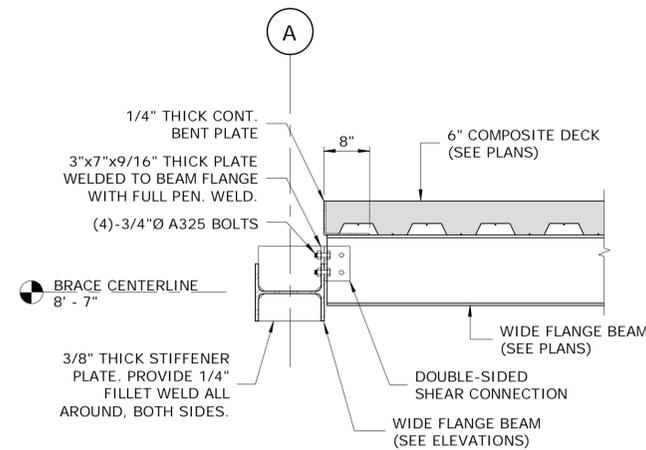


TYPICAL ROOF EDGE DETAIL @ WIDE FLANGE FRAMING

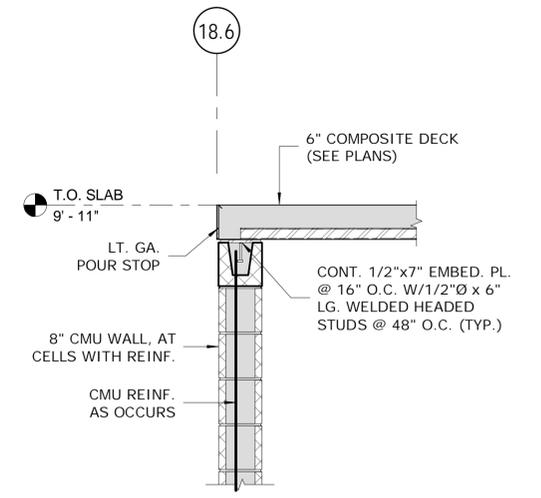
1 SECTION STR-122 SCALE: 3/4" = 1'-0"



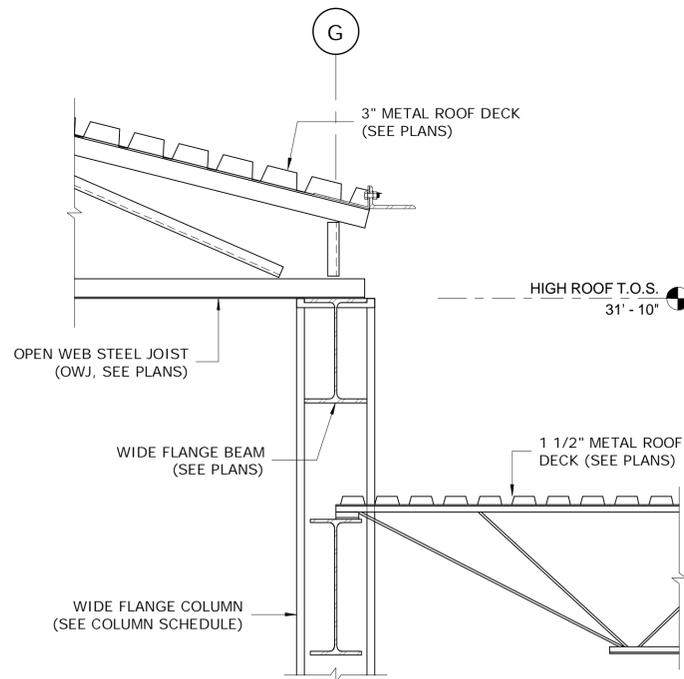
2 SECTION STR-128 SCALE: 3/4" = 1'-0"



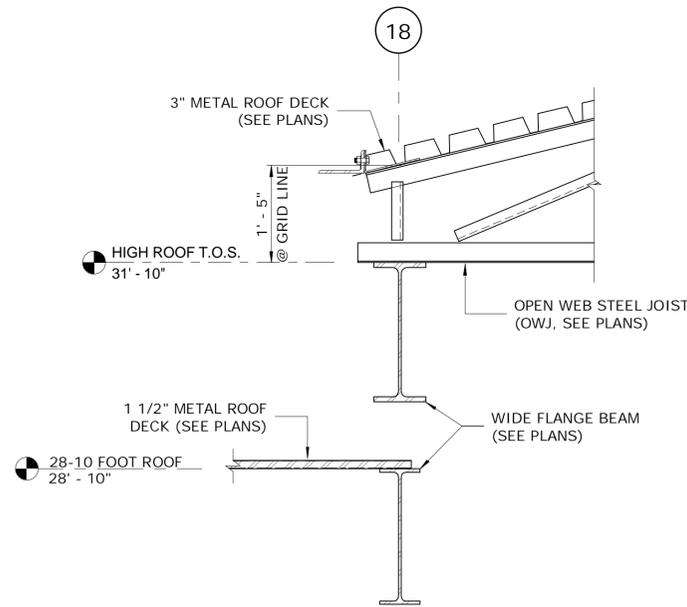
3 SECTION STR-127 SCALE: 3/4" = 1'-0"



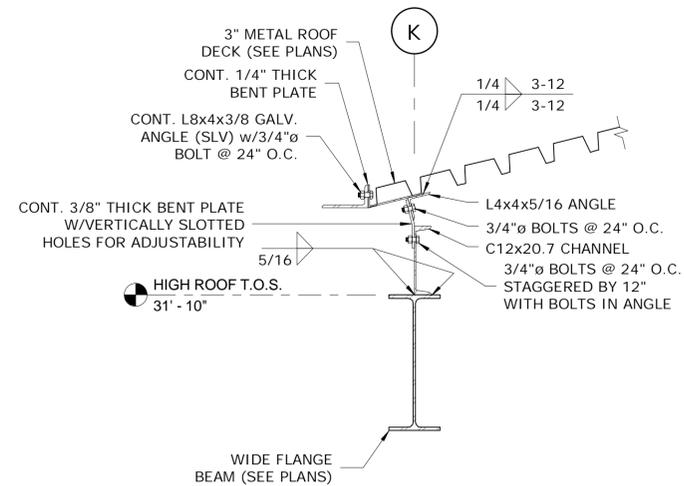
4 SECTION STR-127 SCALE: 3/4" = 1'-0"



5 SECTION STR-122 SCALE: 3/4" = 1'-0"

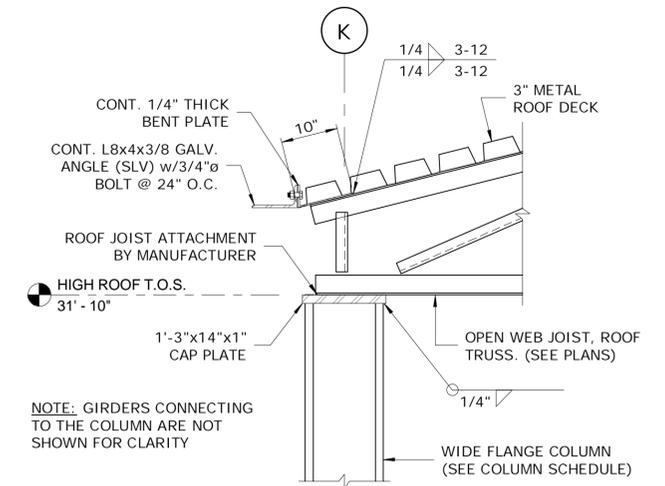


6 SECTION STR-126 SCALE: 3/4" = 1'-0"



TYPICAL HIGH ROOF DIAPHRAGM ATTACHMENT DETAIL

7 SECTION STR-121 SCALE: 3/4" = 1'-0"



TYPICAL TOP OF COLUMN DETAIL WHERE OPEN WEB JOISTS ARE LOCATED AT THE COLUMN LINE

8 SECTION STR-121 SCALE: 3/4" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/23/2014 3:05:53 PM

DESIGNER/DRAFTER: CPS/JFC  
 CHECKED BY: EVD  
 SCALE: 3/4" = 1'-0"

STATE OF CONNECTICUT  
 DEPARTMENT OF TRANSPORTATION

File name: C:\Revit 2014\STRUCT\_CT\_DOT\_Rocky Hill Repair Facility\_Central Replace

SIGNATURE/BLOCK: [Signature]

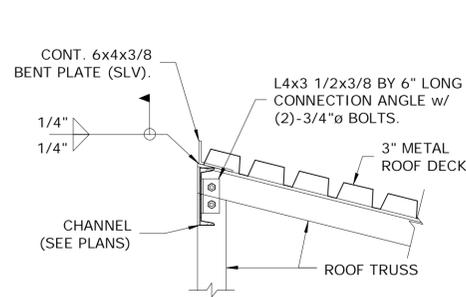
Kleinfelder  
 500 Enterprise Drive  
 Suite 4B  
 Rocky Hill, CT 06067

PROJECT TITLE: REPAIR FACILITY

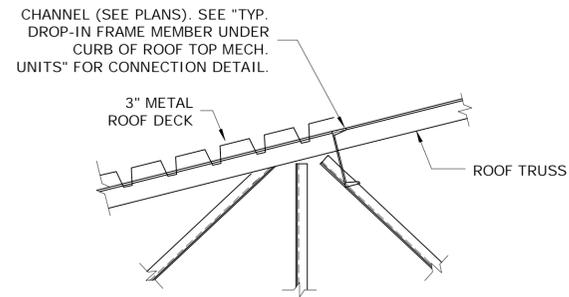
TOWN: ROCKY HILL

DRAWING TITLE: STEEL FRAMING SECTIONS & DETAILS I

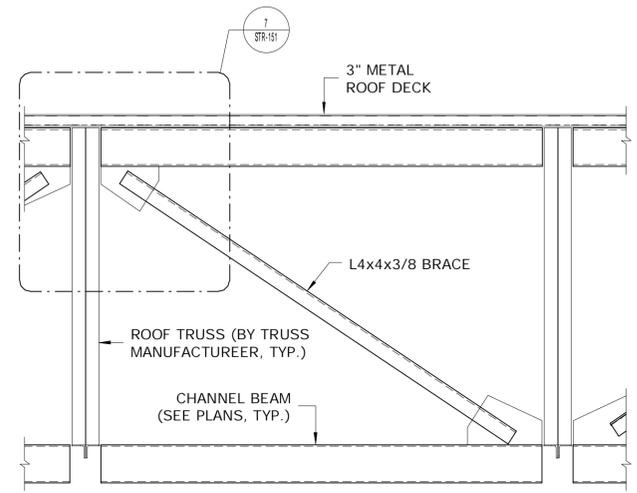
PROJECT NO. 118-167  
 DRAWING NO. STR-150  
 SHEET NO. 07.55



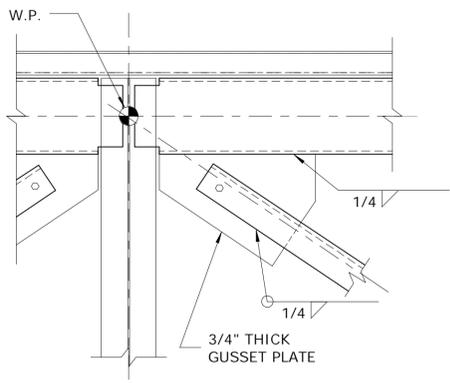
4 SECTION  
SCALE: 3/4" = 1'-0"



5 SECTION  
SCALE: 3/4" = 1'-0"

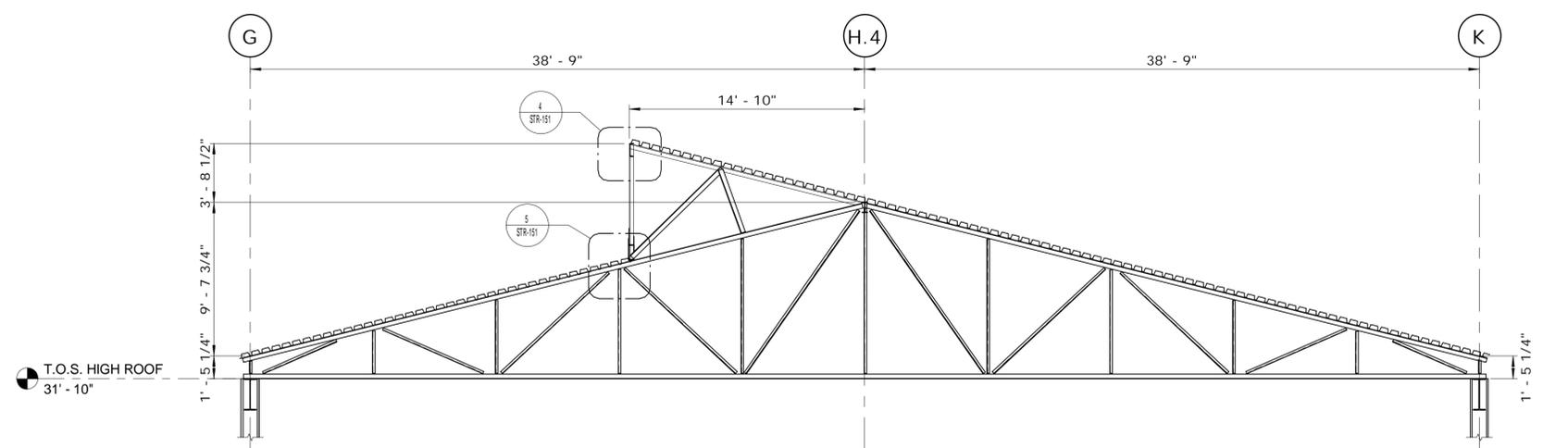


6 SECTION  
SCALE: 1/2" = 1'-0"

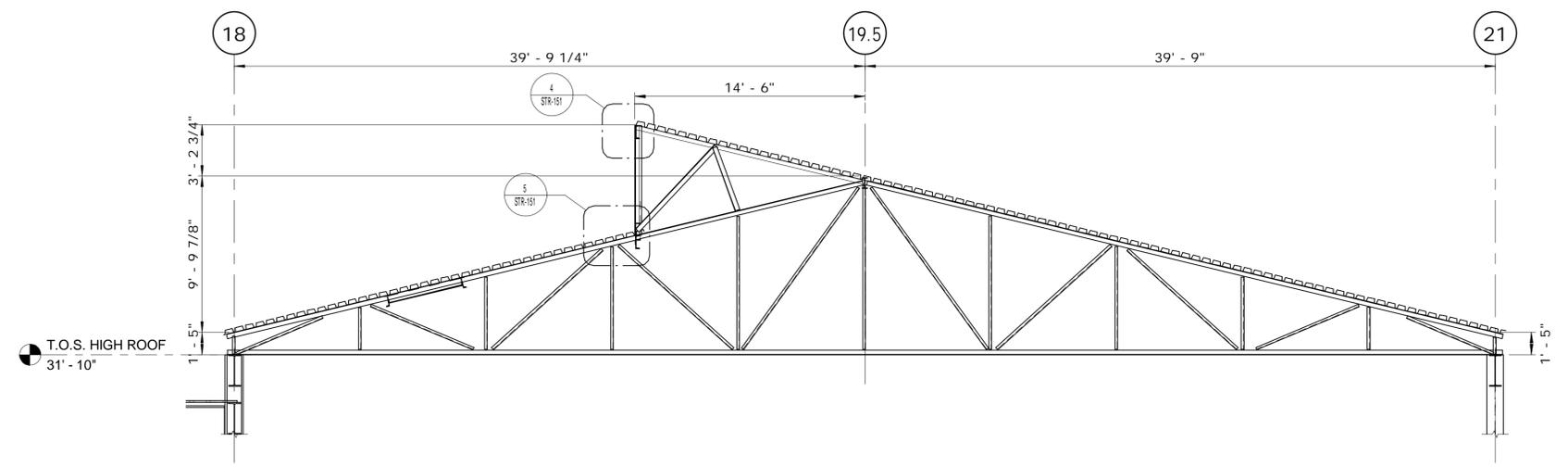


7 SECTION  
SCALE: 1" = 1'-0"

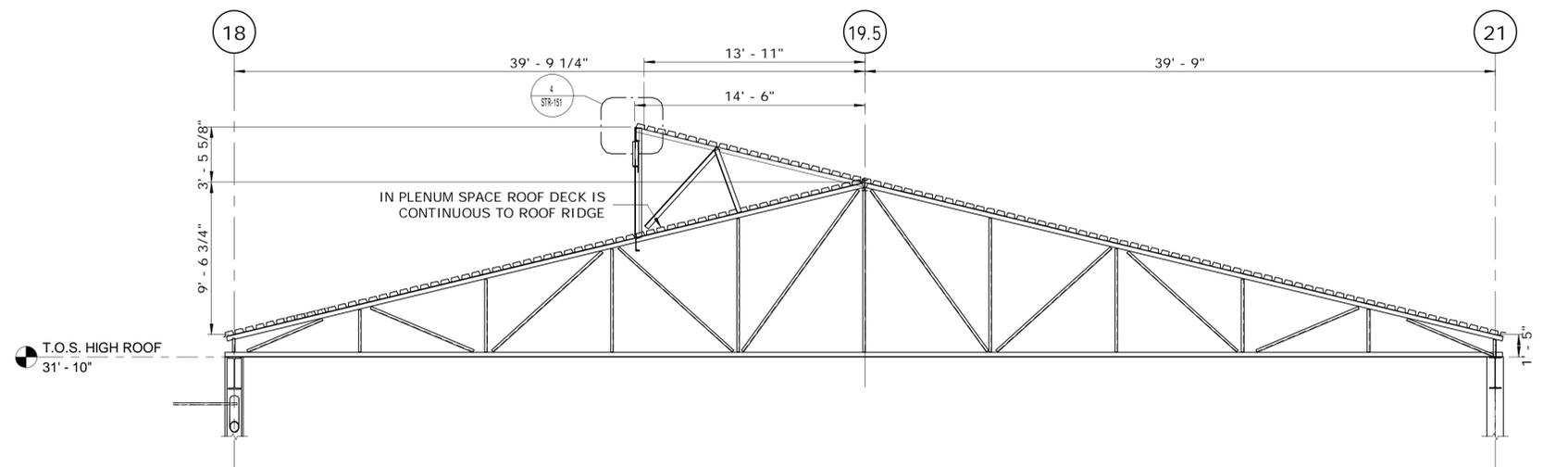
NOTES:  
1. REFER TO STR-014 FOR LOADS ON ROOF TRUSSES.



1 SECTION  
STR-121 SCALE: 3/16" = 1'-0"

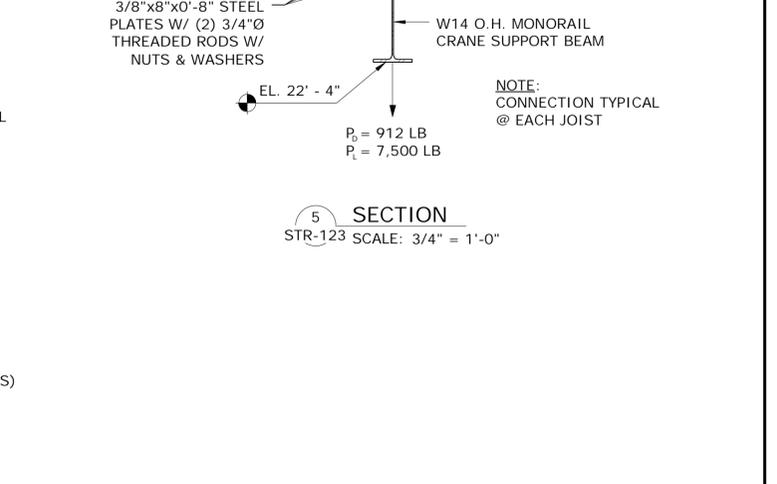
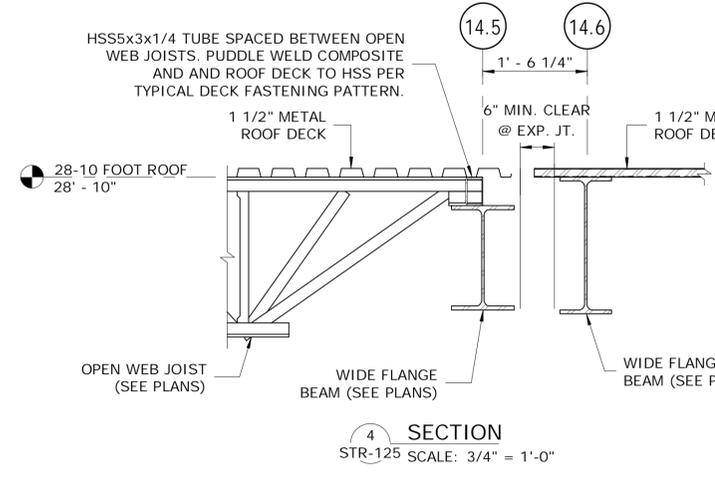
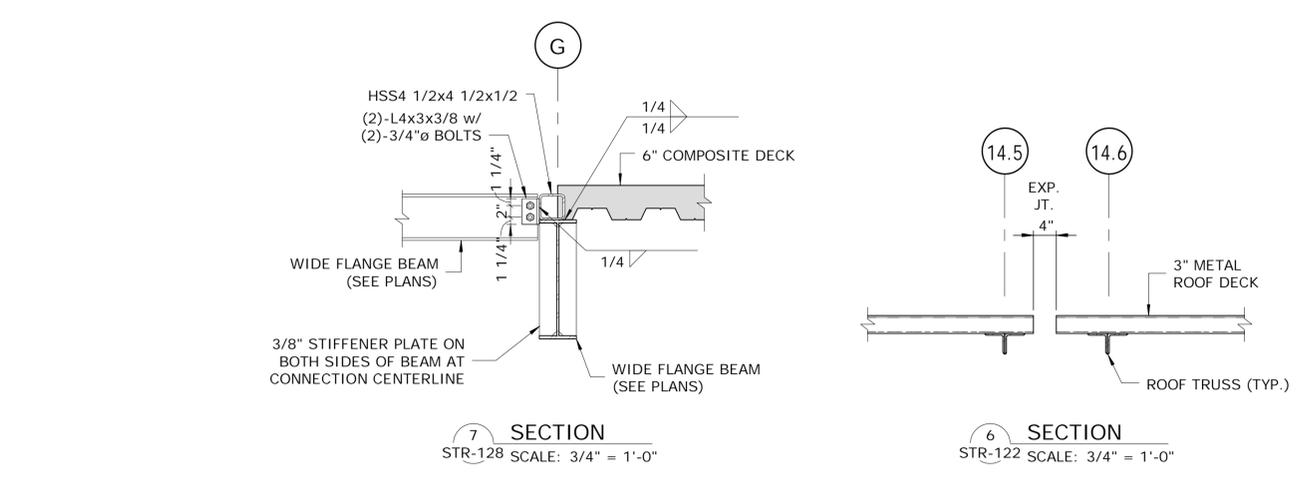
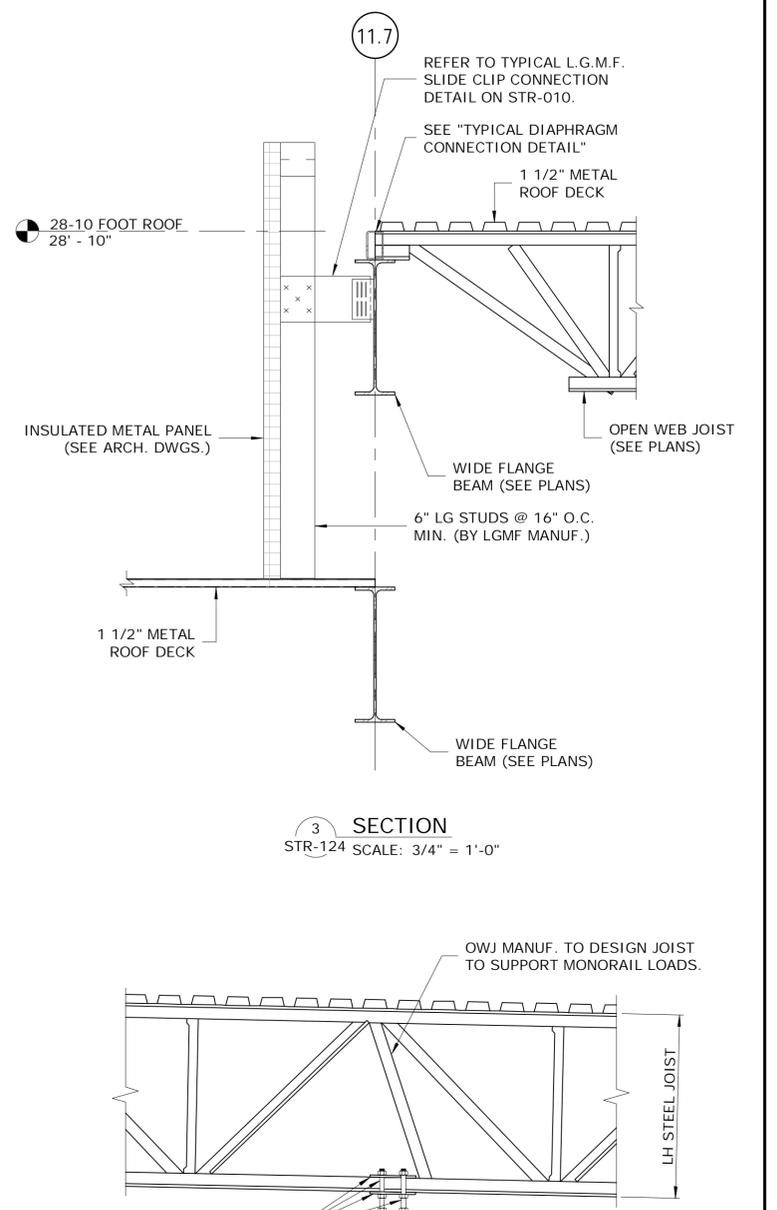
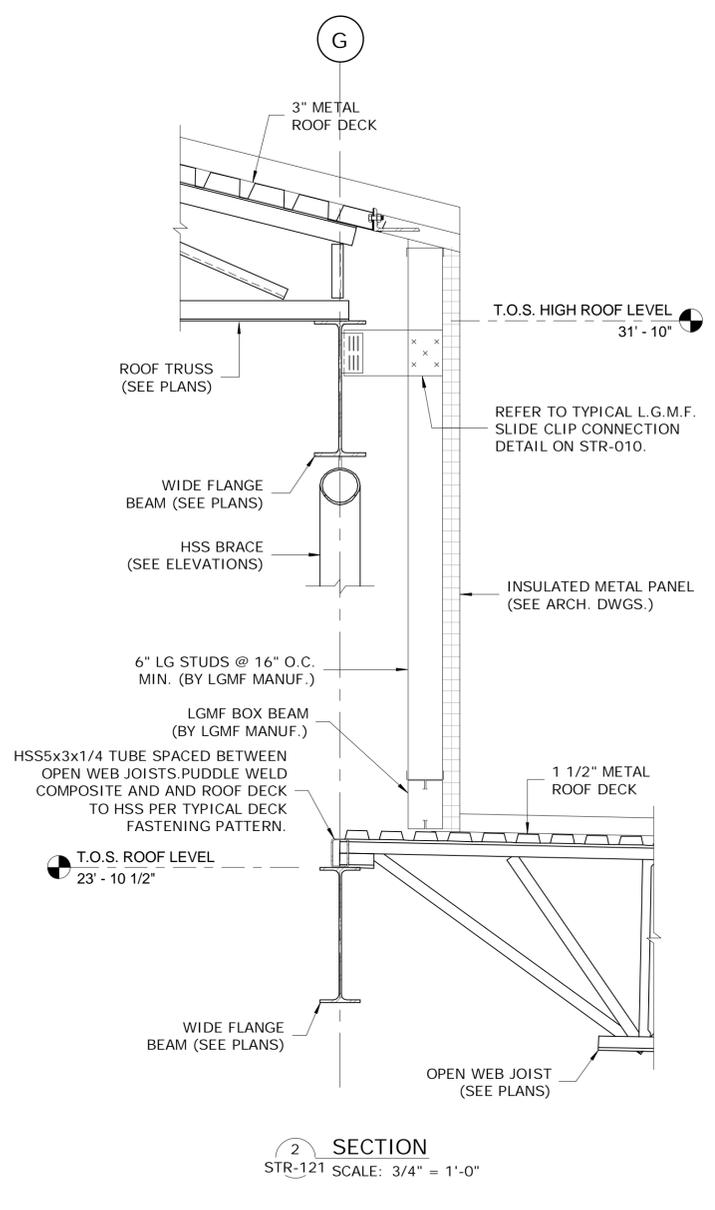
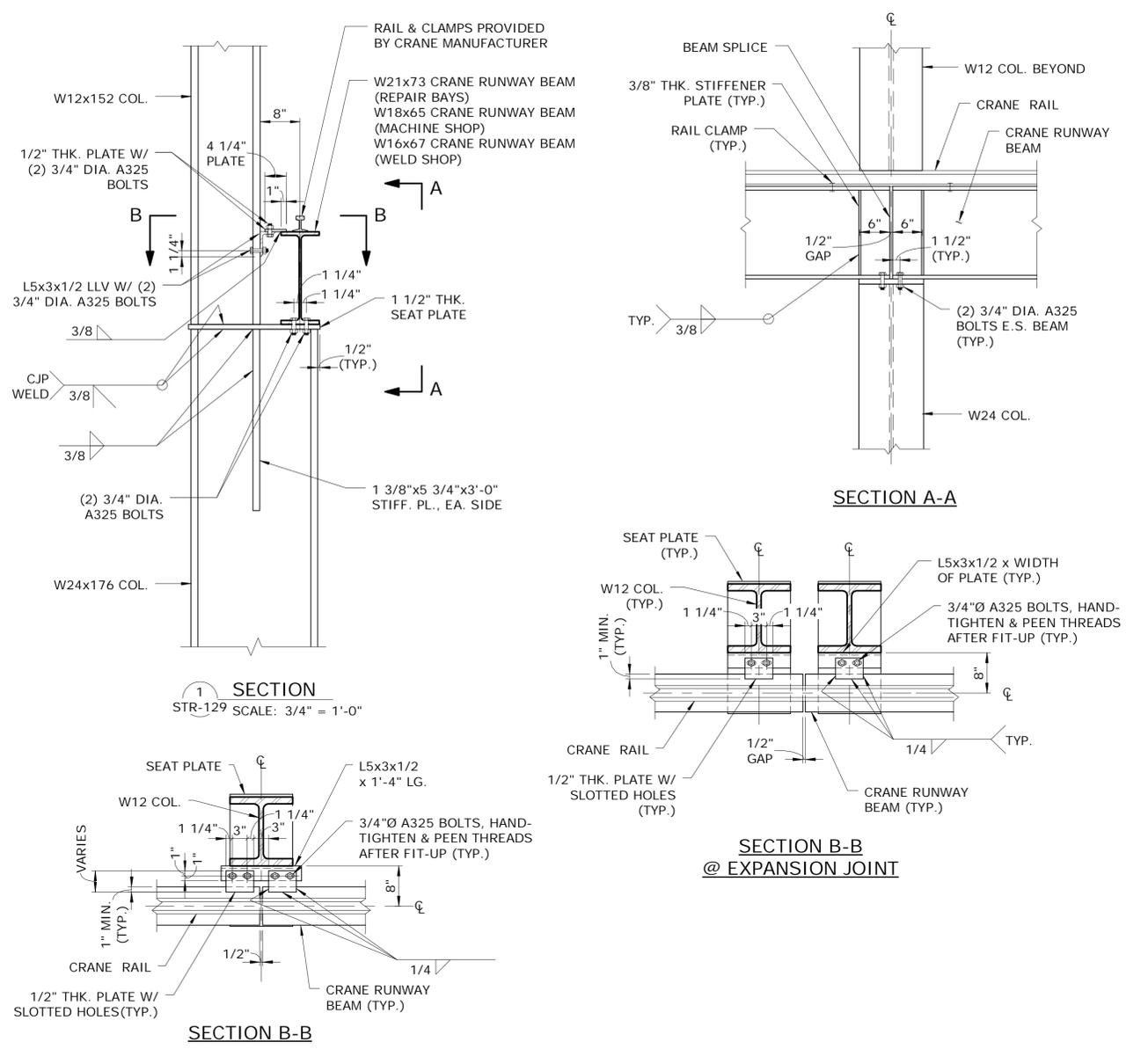


2 SECTION  
STR-126 SCALE: 3/16" = 1'-0"



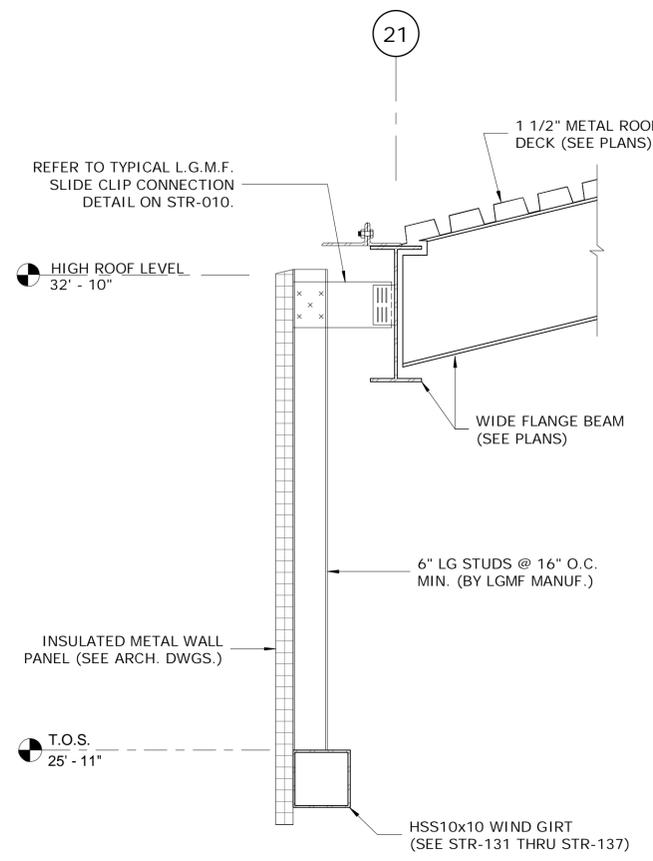
3 SECTION  
STR-127 SCALE: 3/16" = 1'-0"

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.			DESIGNER/DRAFTER: <b>CPS/JFC</b> CHECKED BY: <b>EVD</b> SCALE: As indicated	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION <small>Filename: C:\Revit1 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace</small>	SIGNATURE/ BLOCK: Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-151</b> SHEET NO. <b>07.56</b>	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 10/23/2014 3:05:55 PM					

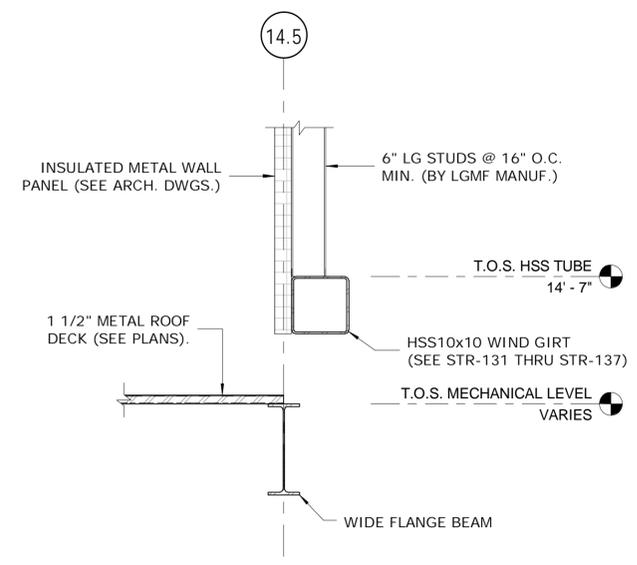


DESIGNER/DRAFTER: <b>CPS/JFC</b>	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b>
CHECKED BY: <b>EVD</b>				DRAWING TITLE: <b>STEEL FRAMING SECTIONS &amp; DETAILS III</b>	DRAWING NO. <b>STR-152</b>
SCALE: 3/4" = 1'-0"	Plotted Date: 10/23/2014 3:05:57 PM	File name: C:\Revit\2014\STRUCT\CT DOT_Rocky Hill Repair Facility_Central Replace			SHEET NO. <b>07.57</b>

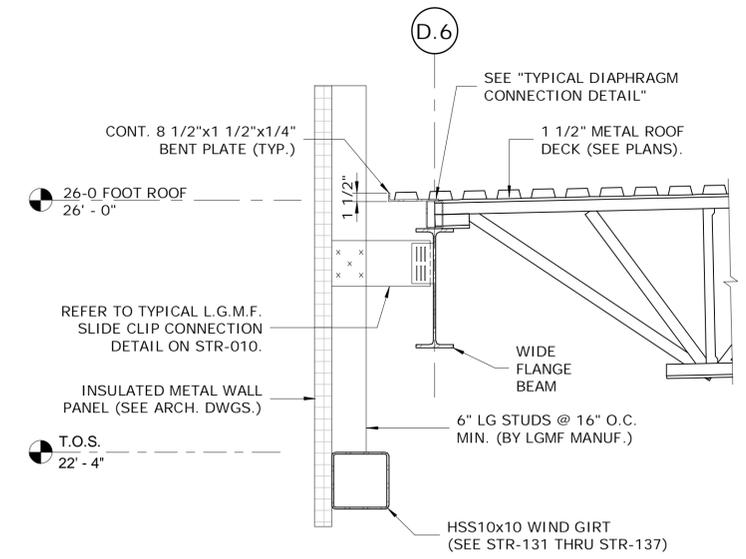
REV.	DATE	REVISION DESCRIPTION	SHEET NO.



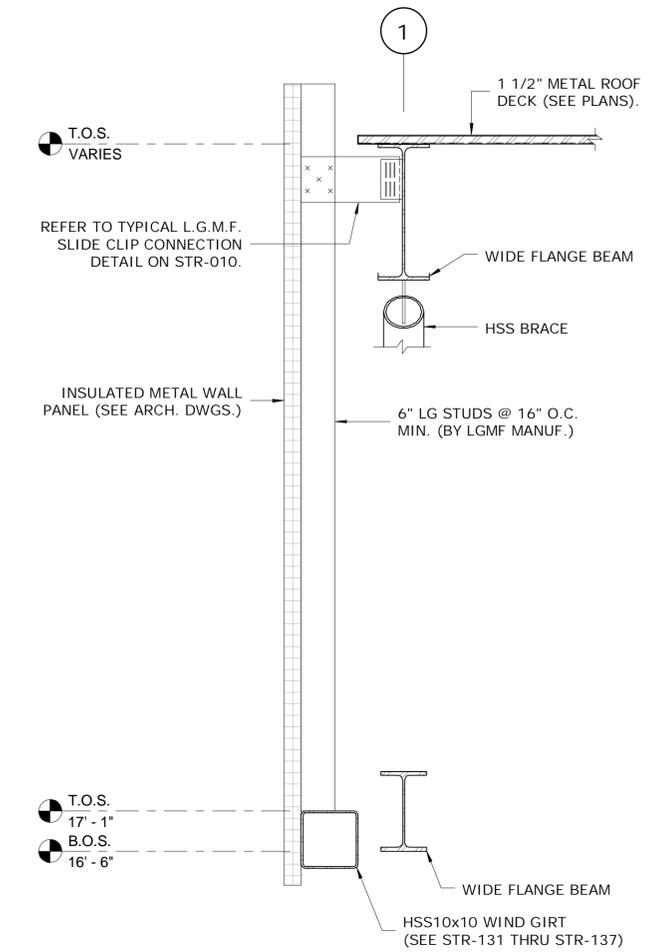
SECTION 4  
STR-122 SCALE: 3/4" = 1'-0"



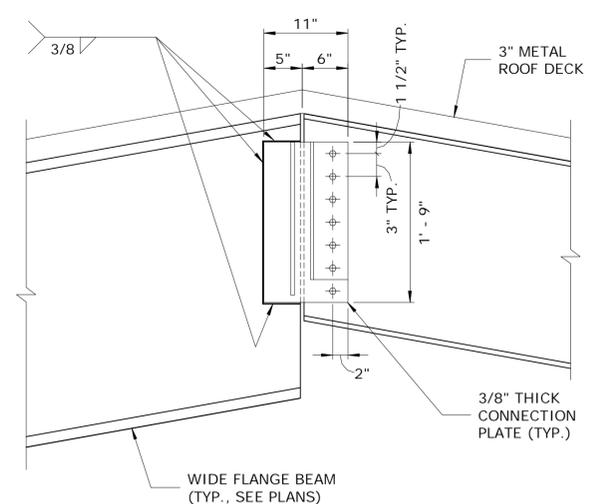
SECTION 3  
STR-128 SCALE: 3/4" = 1'-0"



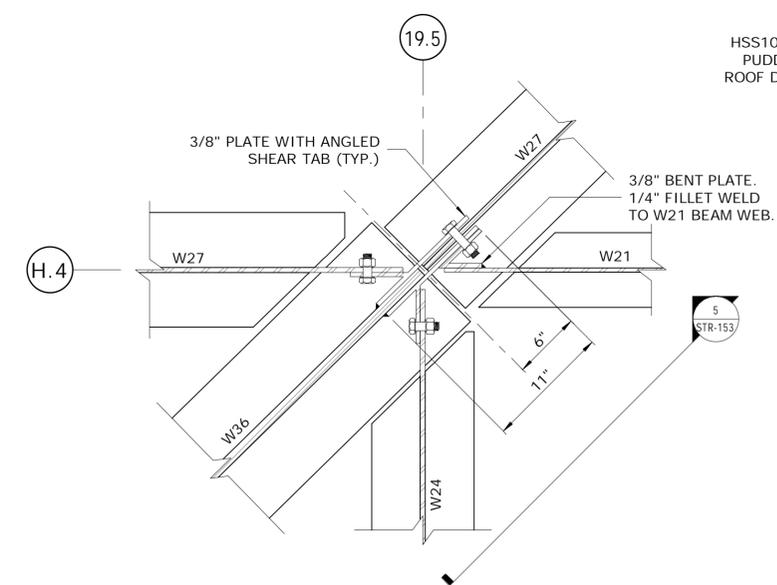
SECTION 2  
STR-123 SCALE: 3/4" = 1'-0"



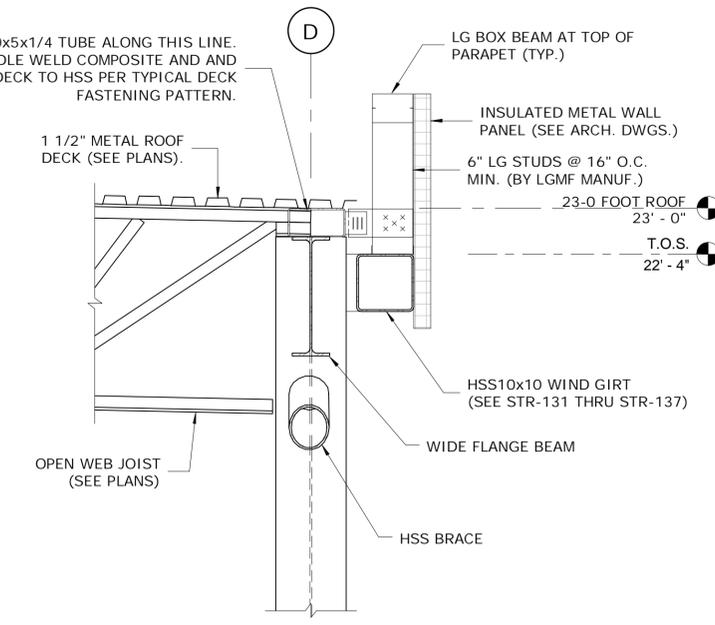
SECTION 1  
STR-123 SCALE: 3/4" = 1'-0"



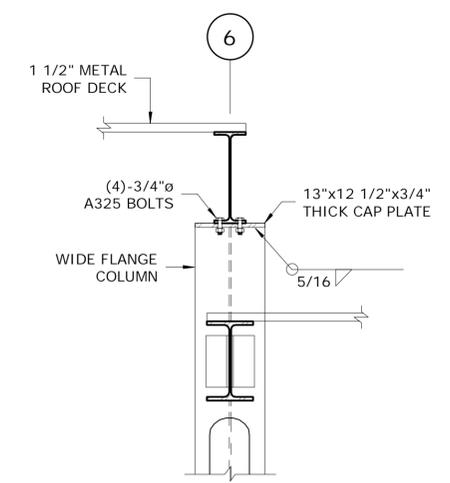
SECTION 5  
STR-122 SCALE: 1" = 1'-0"



SECTION 6  
SCALE: 1 1/2" = 1'-0"

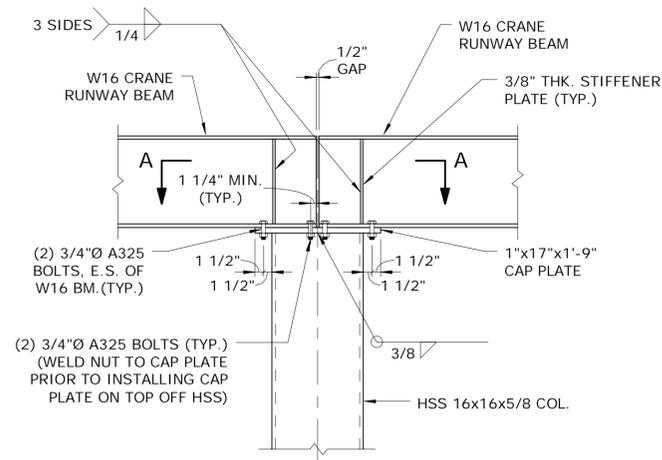


SECTION 7  
SCALE: 3/4" = 1'-0"

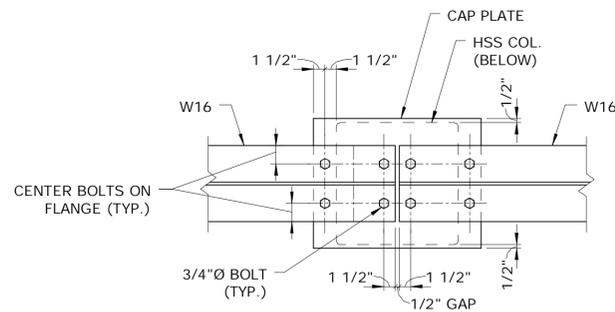


SECTION 8  
SCALE: 3/4" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:05:58 PM	DESIGNER/DRAFTER: <b>Designer/Author</b> CHECKED BY: <b>Checker</b> SCALE: As indicated	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: C:\Revit1 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace	SIGNATURE/BLOCK: Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b>
									DRAWING TITLE: <b>STEEL FRAMING SECTIONS &amp; DETAILS IV</b>	DRAWING NO. <b>STR-153</b>
										SHEET NO. <b>07.58</b>

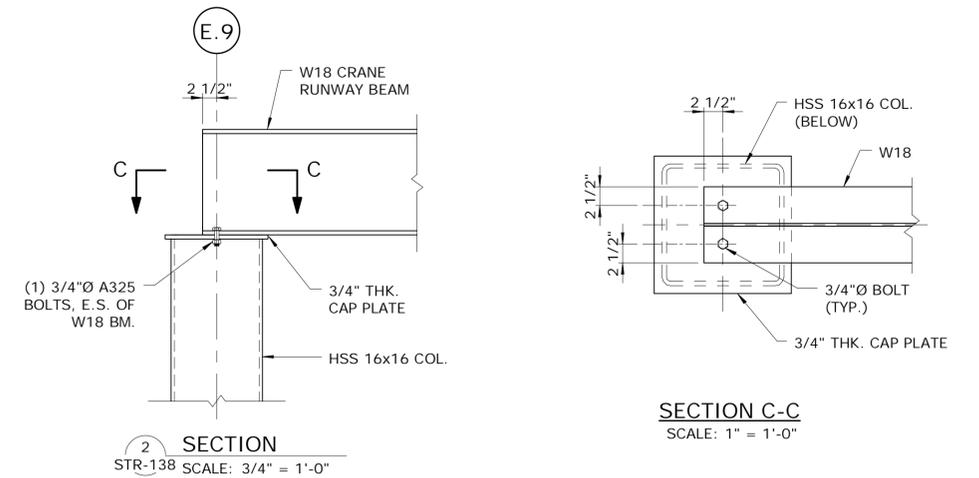


SECTION 1  
STR-138 SCALE: 3/4" = 1'-0"

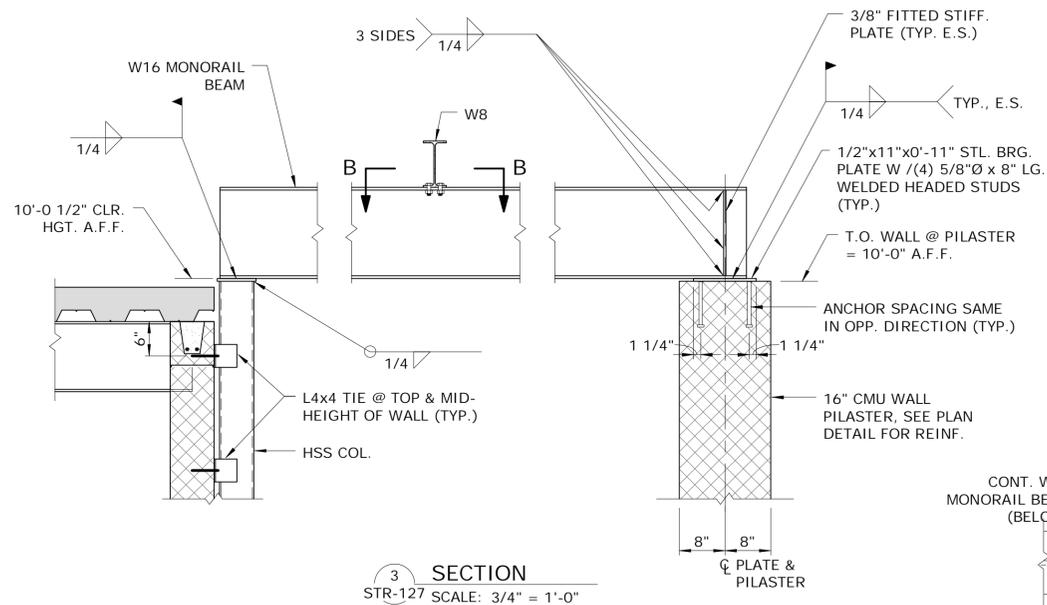


SECTION A-A  
SCALE: 1" = 1'-0"

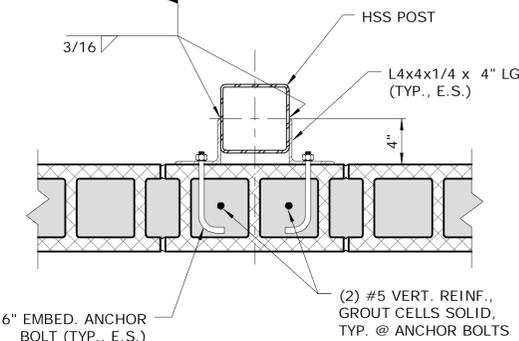
- NOTES:
1. STAGGER SPLICES IN BEAM AND RAIL  $\geq$  1'-0" RELATIVE TO EACH OTHER.
  2. RAIL SPLICES SHALL BE STAGGERED SO THAT JOINTS DO NOT LINE UP ON OPPOSITE SIDES OF RUNWAY.
  3. RAIL SEPARATION NOT TO EXCEED 1/16".



SECTION C-C  
SCALE: 1" = 1'-0"

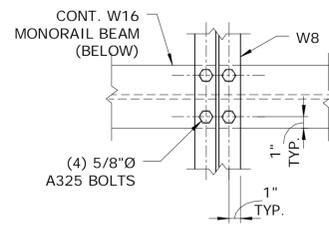


SECTION 3  
STR-127 SCALE: 3/4" = 1'-0"

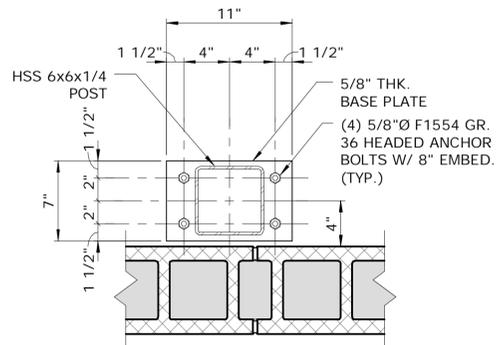


NOTE:  
ATTACH HSS TO CMU WALL @ MID-HEIGHT & @ TOP.

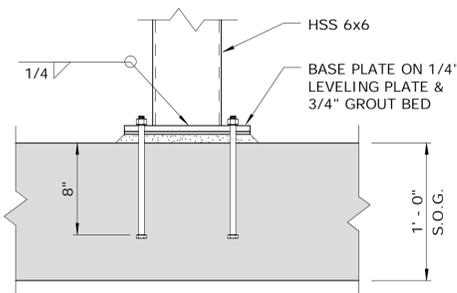
HSS WALL TIE  
TYPICAL PLAN DETAIL  
SCALE: 1 1/2" = 1'-0"



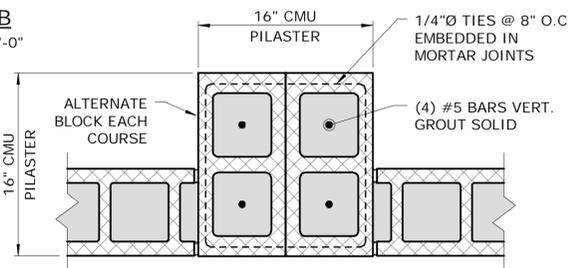
SECTION B-B  
SCALE: 1 1/2" = 1'-0"



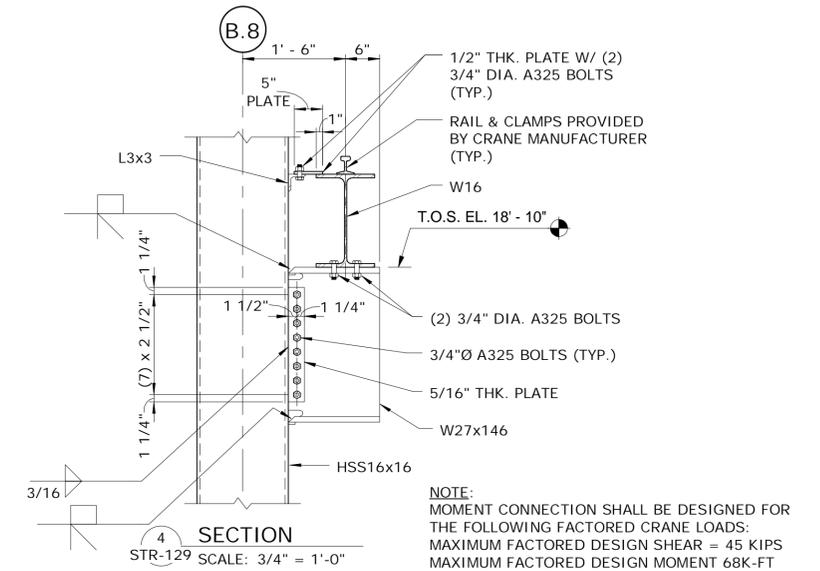
HSS 6x6 BASE PLATE DETAILS  
SCALE: 1 1/2" = 1'-0"



PARTS WASHER HOIST

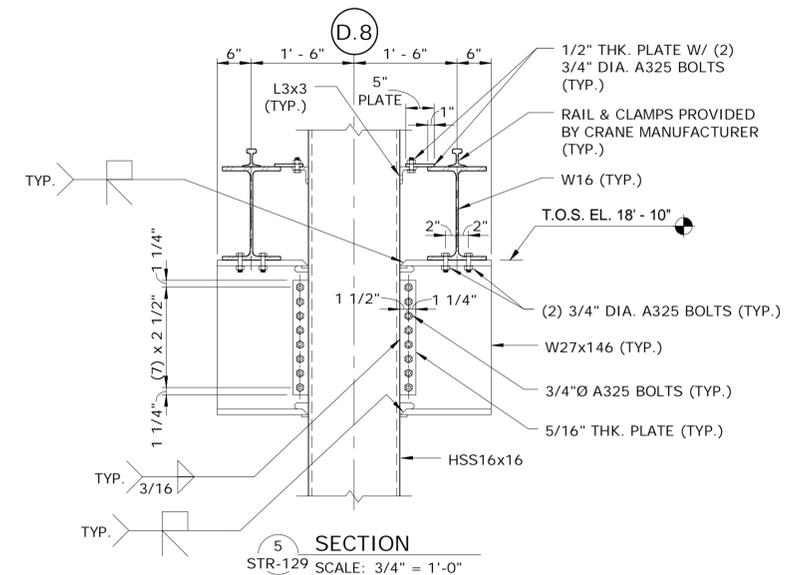


CMU WALL PILASTER  
REINFORCEMENT PLAN DETAIL  
SCALE: 1 1/2" = 1'-0"



SECTION 4  
STR-129 SCALE: 3/4" = 1'-0"

NOTE:  
MOMENT CONNECTION SHALL BE DESIGNED FOR THE FOLLOWING FACTORED CRANE LOADS:  
MAXIMUM FACTORED DESIGN SHEAR = 45 KIPS  
MAXIMUM FACTORED DESIGN MOMENT 68K-FT



SECTION 5  
STR-129 SCALE: 3/4" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 10/23/2014 3:06:01 PM

DESIGNER/DRAFTER:  
**Designer/Author**

CHECKED BY:  
**Checker**

SCALE: As indicated

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

File name: C:\Revit 2014\STRUCT\_CT DOT\_Rocky Hill Repair Facility\_Central Replace

SIGNATURE/BLOCK:

Kleinfelder  
500 Enterprise Drive  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

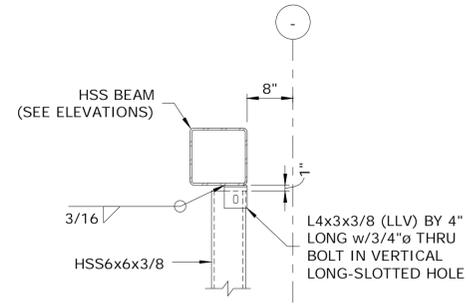
TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**STEEL FRAMING SECTIONS & DETAILS V**

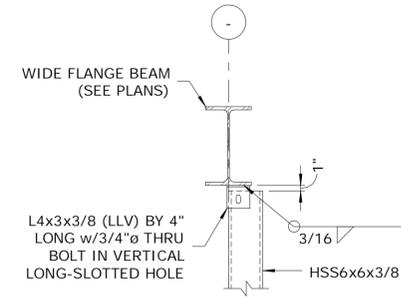
PROJECT NO.  
**118-167**

DRAWING NO.  
**STR-154**

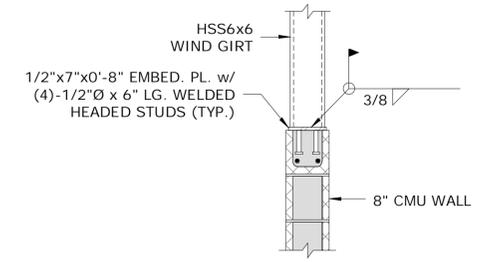
SHEET NO.  
**07.59**



1 SECTION  
STR-123 SCALE: 3/4" = 1'-0"



2 SECTION  
STR-121 SCALE: 3/4" = 1'-0"



3 SECTION  
STR-133 SCALE: 3/4" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/23/2014 3:06:01 PM

DESIGNER/DRAFTER:  
**CPS/JFC**

CHECKED BY:  
**EVD**

SCALE: 3/4" = 1'-0"

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

File name: C:\Revit1 2014\STRUCT\_CT\_DOT\_Rocky Hill Repair Facility\_Central Replace

SIGNATURE/  
BLOCK:

Kleinfelder  
500 Enterprise Drive  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**STEEL FRAMING SECTIONS & DETAILS VI**

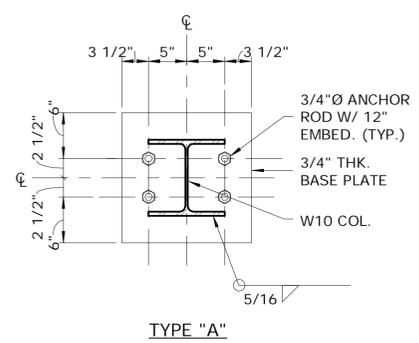
PROJECT NO.  
**118-167**

DRAWING NO.  
**STR-155**

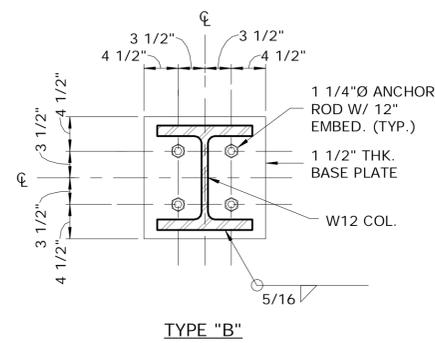
SHEET NO.  
**07.60**

COLUMN SCHEDULE

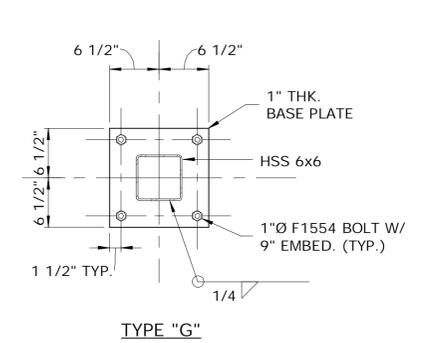
	PART A					PART B										PART C				PART D								
MARK	G-4, K-4	G-9-4, I.5-4	G-5	K-5	G-6, G-7, G-8, G-9, G-10, G-11, G-11.7, K-6, K-7, K-8, K-9, K-10, K-11, K-11.7	G-21, H-21	I-21, J-21	G-13, G-14, G-14.5, G-15, G-16, G-17, K-13, K-14, K-14.5, K-14.6, K-15, K-16, K-17	H.4-18.6	H-19.1	G-19.5	G-14.6, G-18	G-19, K-18, K-19, K-20	H.1-19, H.1-20	H.1-20.9, J.8-20.9	K-21	D.6-1, E.4-1, F-1	F-3	D.6-3	D.6-4, D.6-5	D-6, D-7.2, D-10	D.6-6	D-10.7	D-8, D-9	D.9-11.7	D-11	D-11.7	E.4-6
LEVEL																												
T.O.S. EL. 32'-10"																												
T.O.S. EL. 28'-10"																												
T.O.S. EL. 26'-0"	W12x152	W12x152	W12x106	W12x106	W12x152	W12x152	W12x152	W12x152	W12x72	W12x106	W12x65	W12x152	W12x152															
T.O.S. EL. 20'-0"																												
T.O.S. EL. 13'-3"																												
GROUND FLOOR					W24x176			W24x176				W24x176	W24x176	HSS 16x16x5/8	HSS 16x16x5/8	W12x152	W12x152	W12x50	W12x106	W12x50	W12x53	W12x106	W12x40	W12x120	W12x120	W12x120	W12x120	W12x106
F.F. EL. 0'-0"																												
BASE PLATE DETAIL	D	B	B	B	C	B	B	C	B	B	B	E	C	F	F	D	D	D	B	B	D	D	B	B	B	D	D	B
B.O. BASE PLATE EL.	-12"	-12"	-34"	-12"	-16"	-16"	-12"	-16"	-12"	-12"	-16"	-16"	-16"	-12"	-16"	-16"	-12"	-12"	-12"	-12"	-12"	-12"	-16"	-12"	-12"	-16"	-12"	-12"



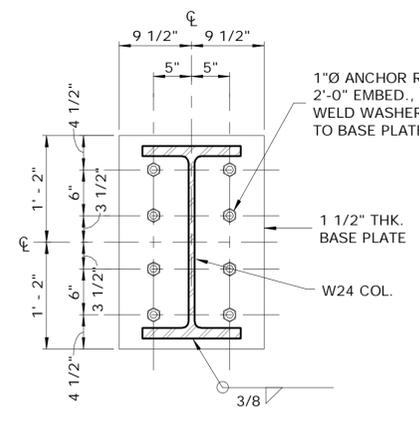
TYPE "A"



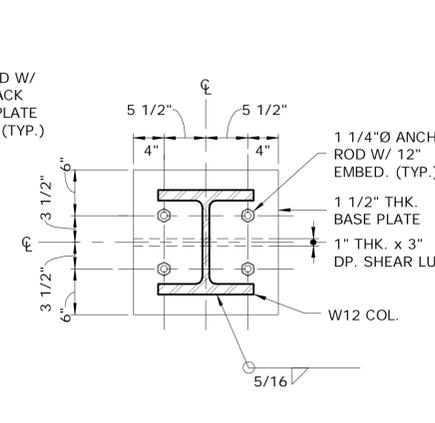
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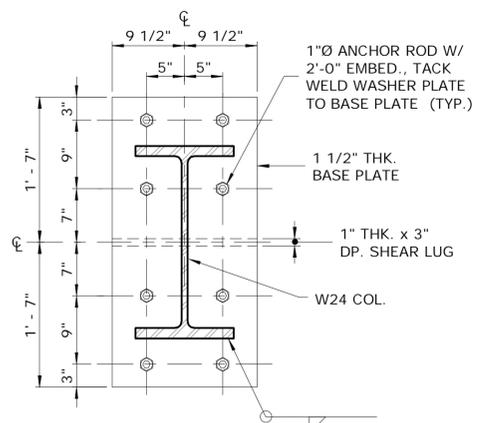
TYPE "G"



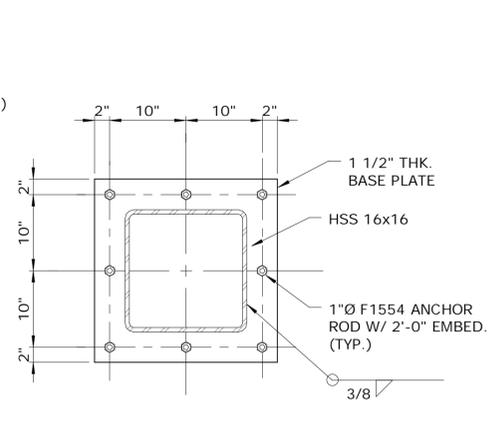
TYPE "C"



TYPE "D"



TYPE "E"



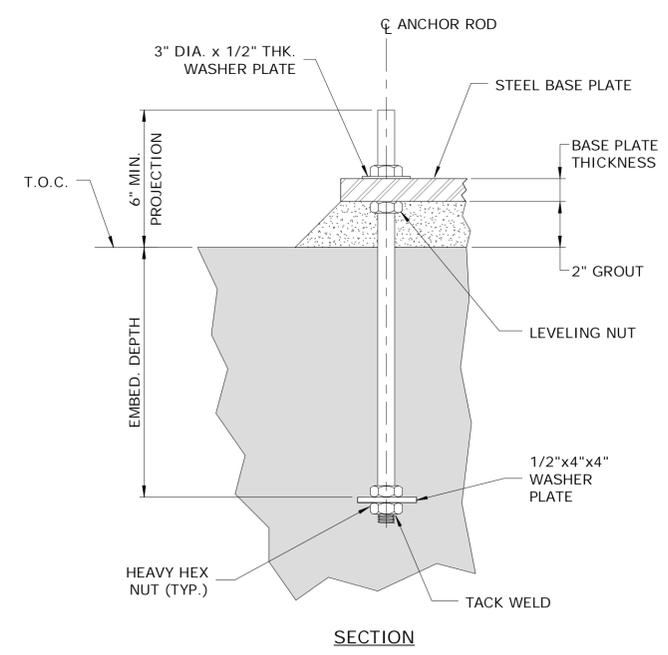
TYPE "F"

BASE PLATE DETAILS  
N.T.S.

NOTE: COLUMNS TO BE CENTERED ON BASE PLATES, UNLESS NOTED OTHERWISE.

NOTES:

- SEE SHEETS STR-002, STR-003 & STR-004 FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS.
- SEE SHEET STR-005 THROUGH STR-013 FOR STRUCTURAL TYPICAL DETAILS.
- ⊕ DENOTES APPROXIMATE LOCATION OF COLUMN SPLICE. REFER TO SECTION ON DWG. 1/STR-152.
- REFER TO DRAWING STR-161 FOR TYPICAL BASE PLATE ELEVATION DETAILS.

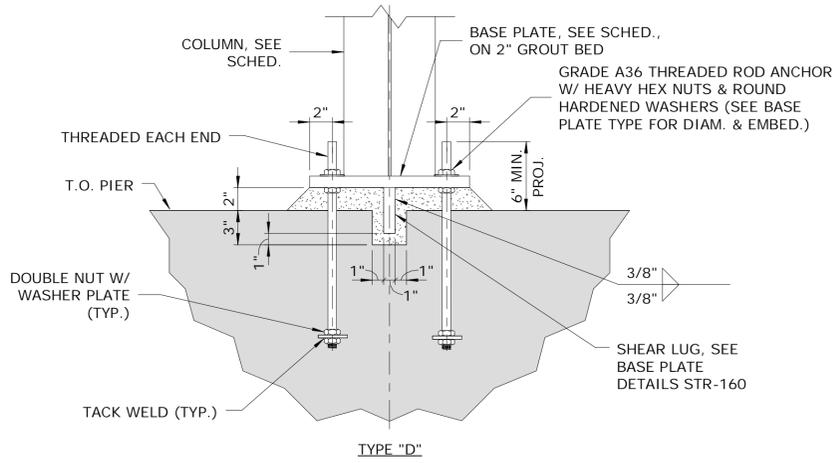


TYPICAL ANCHOR ROD DETAIL  
N.T.S.

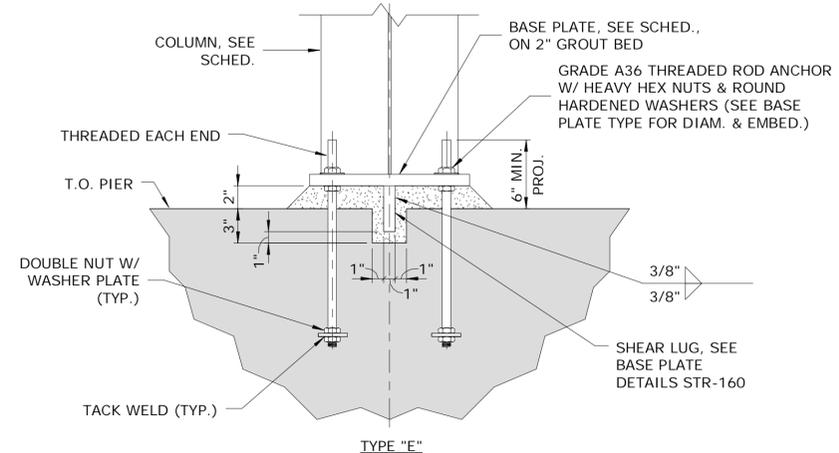
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/23/2014 3:06:03 PM	DESIGNER/DRAFTER: <b>CMG/ JFC</b> CHECKED BY: <b>EVD</b> SCALE: As indicated	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: C:\Revit 2014\STRUCT_CT_DOT_Rocky Hill Repair Facility_Central Replace	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>STR-160</b> SHEET NO. <b>07.61</b>
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COLUMN SCHEDULE

MARK	PART E														PART F											
	B.1-13.6	B.1-14.5	B.1-14.6	C-14.6, D-14.6, E-14.6	C-10.7, B.1-12, B.1-10.7	C-12, C-13.6	C-14.5	D-13	D-14.5	D-13.6	D.9-13	D.9-14.5	E.5-14.1	E.5-14.5	E.9-14.8	C-21, D-21, E-21	B.1-16, B.1-17	C-18	D-18	E-18	B.1-15.4	D.8-18	D.8-19, D.8-20, D.8-20.8	E.9-17.8	E.9-18.1, E.9-19, E.9-20, E.9-20.8	
LEVEL																										
T.O.S. EL. 32'-10"																										
T.O.S. EL. 28'-10"																										
T.O.S. EL. 26'-0"			W12x152	W12x152																						
T.O.S. EL. 20'-0"			W24x176	W24x176																						
T.O.S. EL. 13'-3"																										
GROUND FLOOR	W12x40	W12x120			W12x120	W10x33	W12x120	W12x53	W12x53	W12x53	W12x72	W12x120	HSS6x6x3/8	HSS6x6x3/8	HSS16x16x5/8	W12x152	W12x152	W12x152	W12x152	W12x152	W12x53	HSS 16x16x5/8	HSS 16x16x5/8	HSS16x16x5/8	HSS 16x16x5/8	
F.F. EL. 0'-0"																										
BASE PLATE DETAIL	D	B	C	C	D	A	D	B	B	B	B	B	G	G	G	B	D	C	C	C	D	F	F	G	F	
B.O. BASE PLATE EL.	-12"	-16"	-16"	-12"	-12"	-12"	-12"	-12"	-12"	-10"	-10"	-12"	-10"	-12"	-16"	-12"	-28"	-22"	-12"	-16"	-12"	-16"	-15"	-16"	-16"	

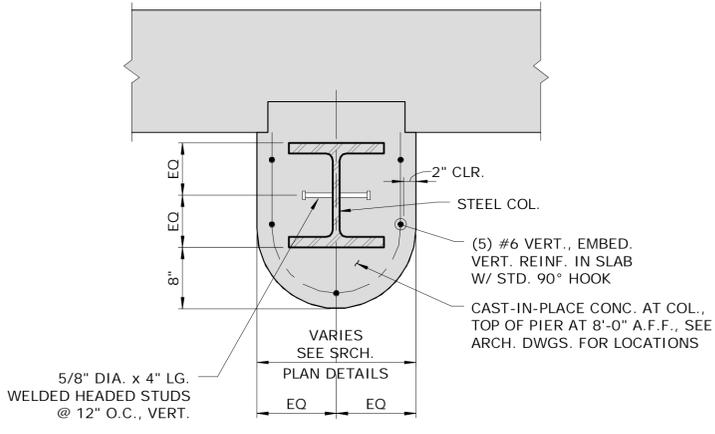


TYPE "D"

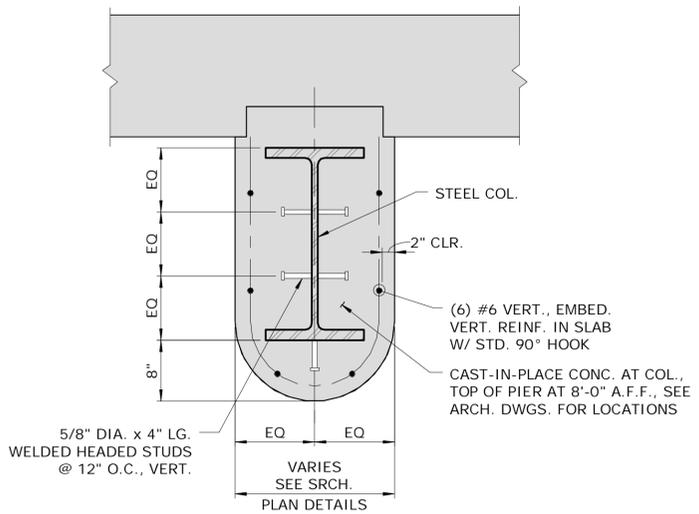


TYPE "E"

TYPICAL BASE PLATE ELEVATION DETAILS  
N.T.S.



TYPICAL W12 COLUMN PROTECTION DETAIL  
N.T.S.



TYPICAL W24 COLUMN PROTECTION DETAIL  
N.T.S.

COLUMN SCHEDULE					
MARK	PART G				
	B.1-18	A-19, A-20	A-21, B-21	A-18	B.8-18, B.8-19, B.8-20, B.8-20.8
LEVEL					
T.O.S. EL. 32'-10"					
T.O.S. EL. 28'-10"					
T.O.S. EL. 26'-0"					
T.O.S. EL. 20'-0"	W12x152	W12x106	W12x152	W12x152	
T.O.S. EL. 13'-3"	W24x176				HSS 16x16x5/8
GROUND FLOOR					
F.F. EL. 0'-0"					
BASE PLATE DETAIL	E	D	B	D	F
B.O. BASE PLATE EL.	-16"	-28"	-28"	-28"	-22"

- NOTES:
- SEE SHEETS STR-002, STR-003 & STR-004 FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS.
  - SEE SHEET STR-005 THROUGH STR-013 FOR STRUCTURAL TYPICAL DETAILS.
  - ⊕ DENOTES APPROXIMATE LOCATION OF COLUMN SPLICE. REFER TO TYPICAL COLUMN SPLICE DETAIL.
  - REFER TO DRAWING STR-161 FOR TYPICAL BASE PLATE ELEVATION DETAILS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER: **CMG/ JFC**  
 CHECKED BY: **EVD**  
 SCALE: As indicated

STATE OF CONNECTICUT  
 DEPARTMENT OF TRANSPORTATION

File name: C:\Revit1 2014\STRUCT\_CT\_DOT\_Rocky Hill Repair Facility\_Central Replace

SIGNATURE/  
BLOCK:

Kleinfelder  
 500 Enterprise Drive  
 Suite 4B  
 Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

TOWN:  
**ROCKY HILL**

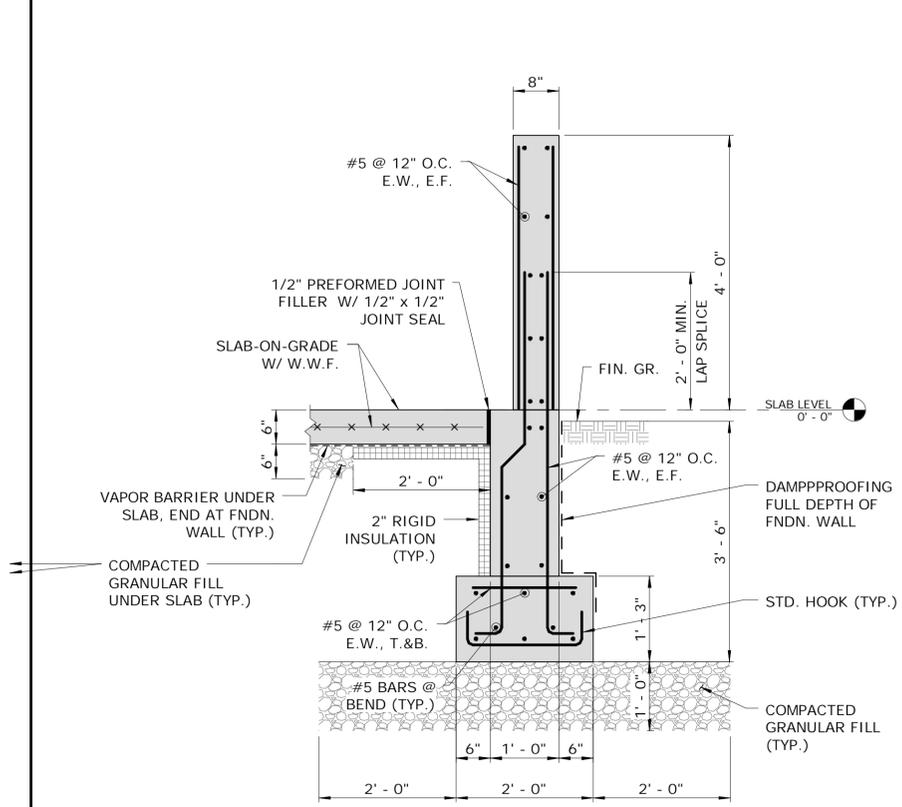
DRAWING TITLE:  
**COLUMN SCHEDULE II**

PROJECT NO.  
**118-167**

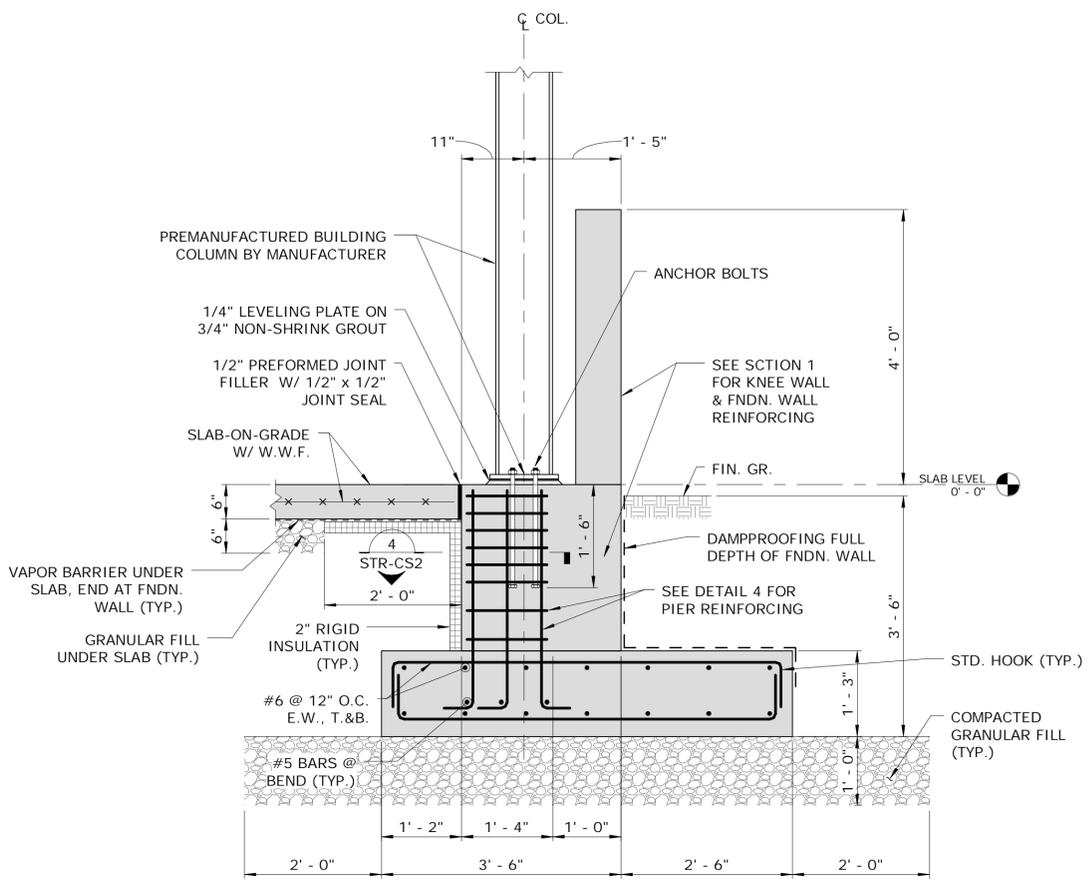
DRAWING NO.  
**STR-161**

SHEET NO.  
**07.62**

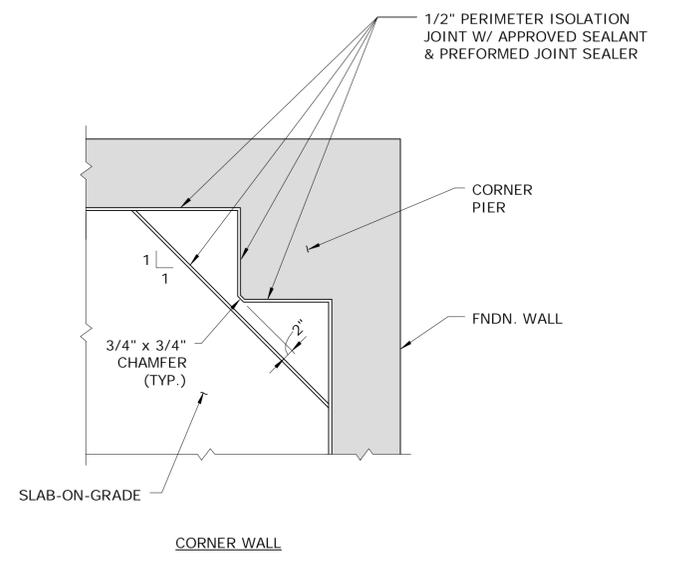
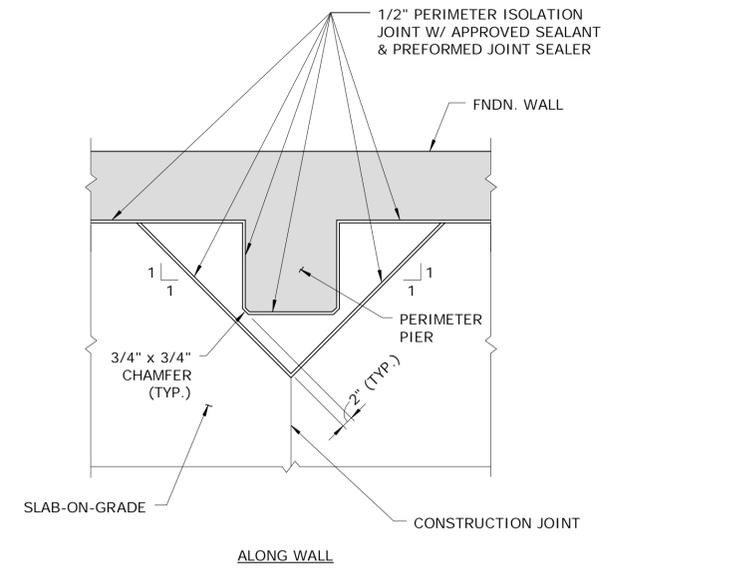




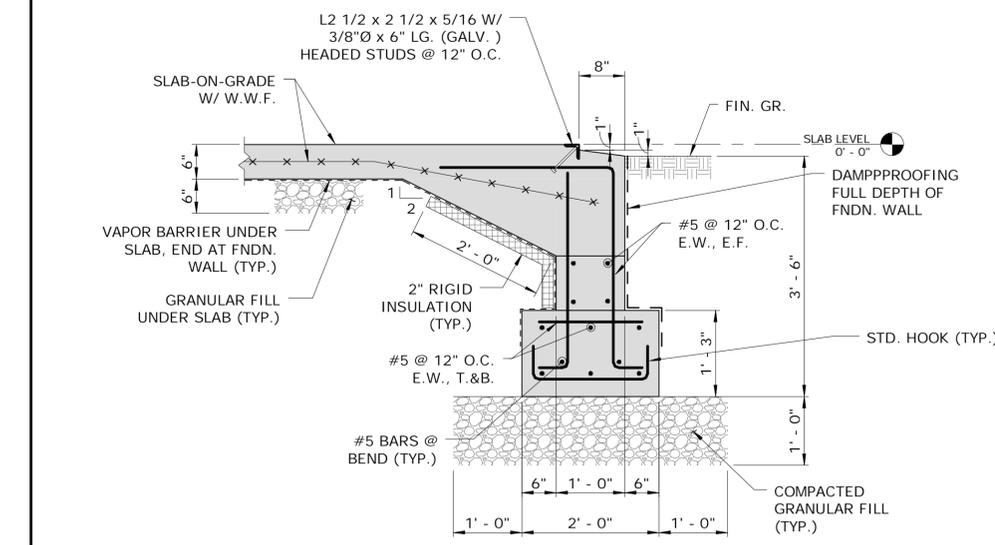
SECTION 1  
STR-CS1 SCALE: 3/4" = 1'-0"



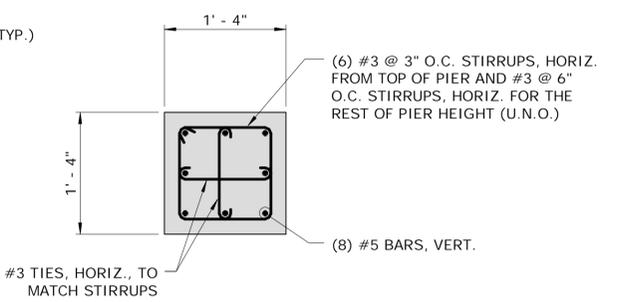
SECTION 2  
STR-CS1 SCALE: 3/4" = 1'-0"



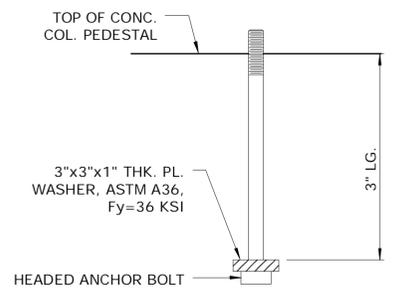
ISOLATION JOINTS AT PERIMETER PIER DETAILS  
SCALE: 3/4" = 1'-0"



SECTION 3  
STR-CS1 SCALE: 3/4" = 1'-0"



DETAIL 4  
STR-CS2 SCALE: 1" = 1'-0"



METAL BUILDING ANCHOR BOLT DETAIL FOR PRIMARY BUILDING COLUMNS  
NTS

ANCHOR BOLT NOTES:

1. FOR BOLT MATERIAL SPECIFICATIONS, LAYOUT, QUANTITY, DIAMETER, PROJECTION AND THREAD, REFER TO BUILDING MANUFACTURER'S ANCHOR BOLT PLAN. AS A MINIMUM, ANCHOR BOLT MATERIAL SHALL COMPLY WITH ASTM A307.
2. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED.
3. BOLTS SHALL BE SET BY TEMPLATE TO BLDG MFR'S TOLERANCES.
4. WHERE WASHER SIZE EXCEEDS SPECIFIED BOLT SPACING, USE CONTINUOUS WASHER PLATE.

NOTE:  
1. REFER TO DRAWINGS No. STR-002 & STR-003 FOR STRUCTURAL GENERAL NOTES, DRAWING No. STR-004 FOR ABBREVIATIONS, AND DRAWINGS No. STR-005 & STR-006 FOR TYPICAL DETAILS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER:  
**CPS/JFC**  
CHECKED BY:  
**EVD**  
SCALE: As indicated

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

File name: C:\Revit 2014\STRUCT\_CT DOT\_Rocky Hill Repair Facility\_CS\_Central\_jcolameta.rvt

SIGNATURE/  
BLOCK:

Kleinfelder  
500 Enterprise Drive  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**COLD STORAGE SECTIONS & DETAILS I**

PROJECT NO.  
**118-167**

DRAWING NO.  
**STR-CS2**

SHEET NO.  
**07.64**