

CONSTRUCTION PLANS TYPICAL ABBREVIATIONS

A	
AB	ANCHOR BOLT
ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
AL	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
AWS	AMERICAN WELDING SOCIETY

B	
B'	BOTTOM OF
BB	BOND BEAM
BLDG	BUILDING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BS	BOTH SIDES
BTWN	BETWEEN

C	
C/C	CENTER TO CENTER
CANT	CANTILEVER
CB	CONCRETE BEAM
CC	CONCRETE COLUMN
CFS	COLD FORMED STEEL
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION / CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
CTR'D	CENTERED
CY	CUBIC YARD

D	
DIA	DIAMETER
DIAG	DIAGONAL
DL	DEAD LOAD
DL	DOUBLE LOK
DN	DOWN
DTL	DETAIL
DWG	DRAWING
DWL	DOWEL

E	
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
ENG	ENGINEER
EOS	EDGE OF SLAB
EL	ELEVATION
EQ	EQUAL
EQ SP	EQUAL SPACE(S) (ING)
ES	EACH SIDE
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR

F	
F'	FACE OF
FDN	FOUNDATION
FF	FINISHED FLOOR
FL	FLOOR
FLG	FLANGE
FMG	FRAMING
FS	FAR SIDE
FT	FOOT
FTG	FOOTING

G	
GA, ga	GAUGE
GALV	GALVANIZE(D)
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GFC	GROUT FILLED CELL(S) / COARSE
GR	GRADE

H	
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HEADED STUD
HSS	HOLLOW STRUCTURAL SECTION

I	
ID	INSIDE DIAMETER
IF	INSIDE FACE
INT	INTERIOR

J	
JST	JOIST
JT	JOINT

K	
K	KIP
L	
LG	LONG
LL	LIVE LOAD
LNTL	LINTEL
LONG	LONGITUDINAL
LP	LONG POINT

M	
MAS	MASONRY
MAX	MAXIMUM
MB	MACHINE BOLT
MBM	METAL BUILDING MANUFACTURER
MC	MOMENT CONNECTION
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE(ER)
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MS	METAL STUD
MTL	METAL

N	
NTS	NOT TO SCALE
O	
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OVER HEAD
OPNG	OPENING
OPP	OPPOSITE

P	
PAF	POWER-ACTUATED FASTENER
PEMB	PRE-ENGINEERED METAL BUILDING
PERP	PERPENDICULAR
PC	PRECAST
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNL	PANEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTN	PARTITION

R	
R	RADIUS
RC	REINFORCED CONCRETE
REF	REFERENCE
REINF	REINFORCE(D) (ING)
REQ	REQUIRE
REQ'D	REQUIRED
RF	ROOF
RP	RADIUS POINT
RTN	RETURN
RW	RETAINING WALL

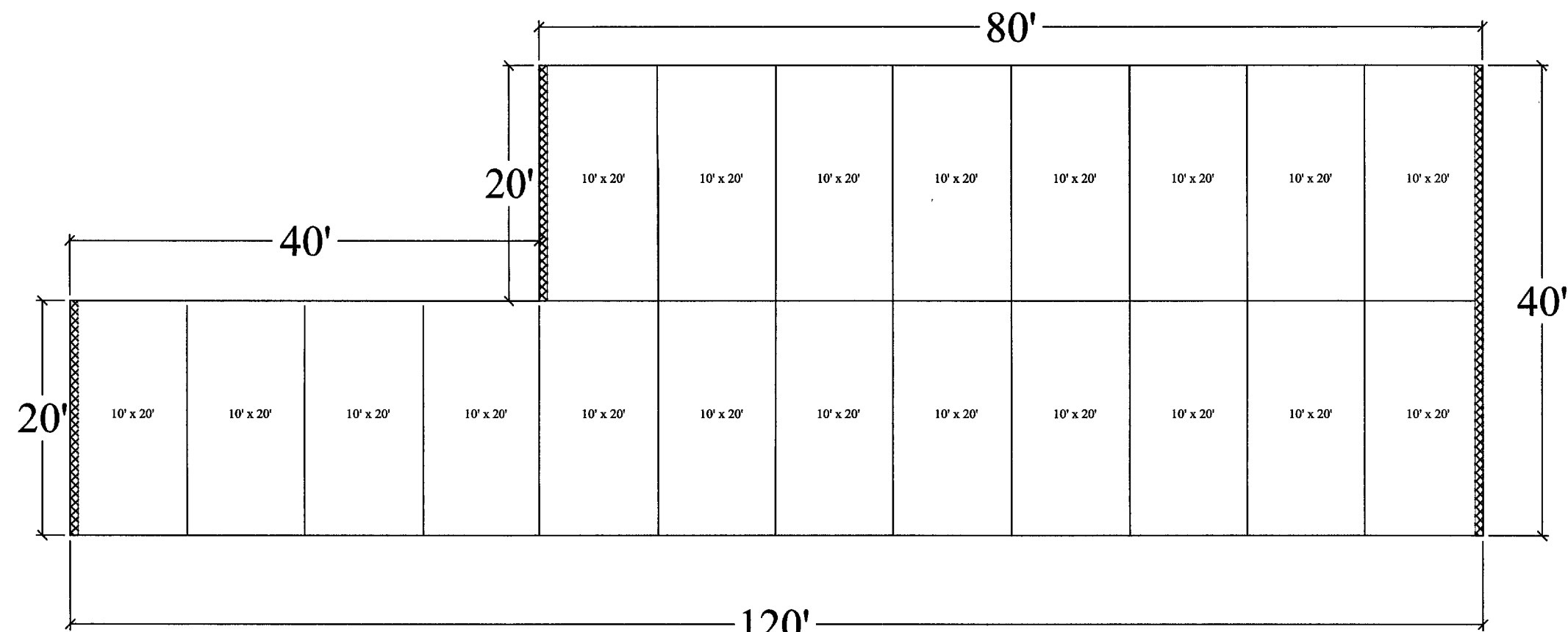
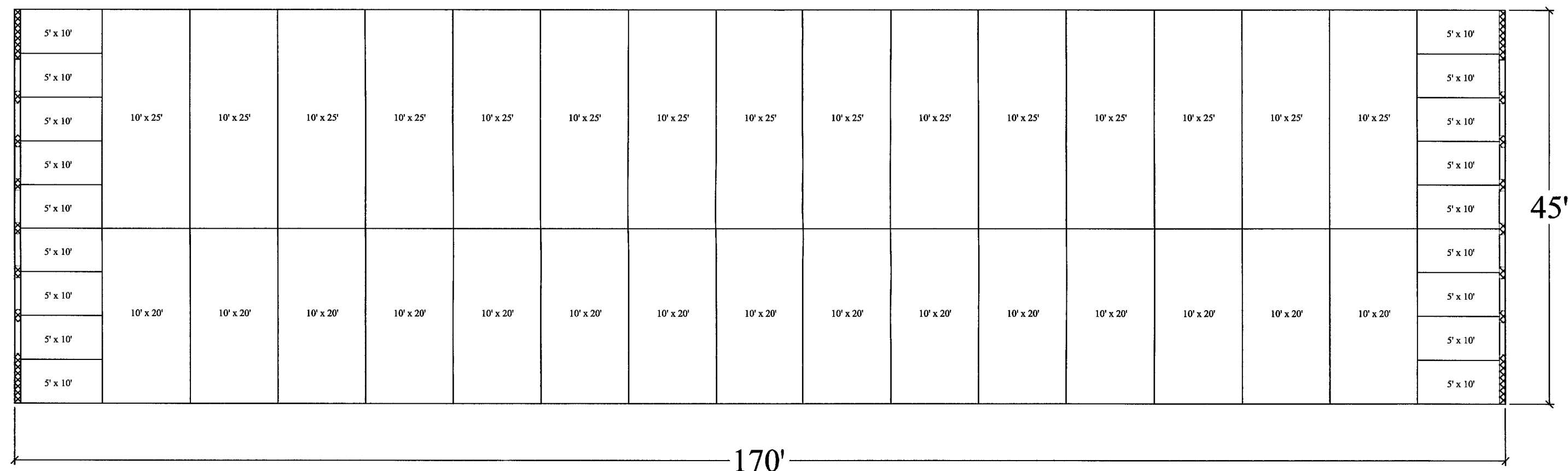
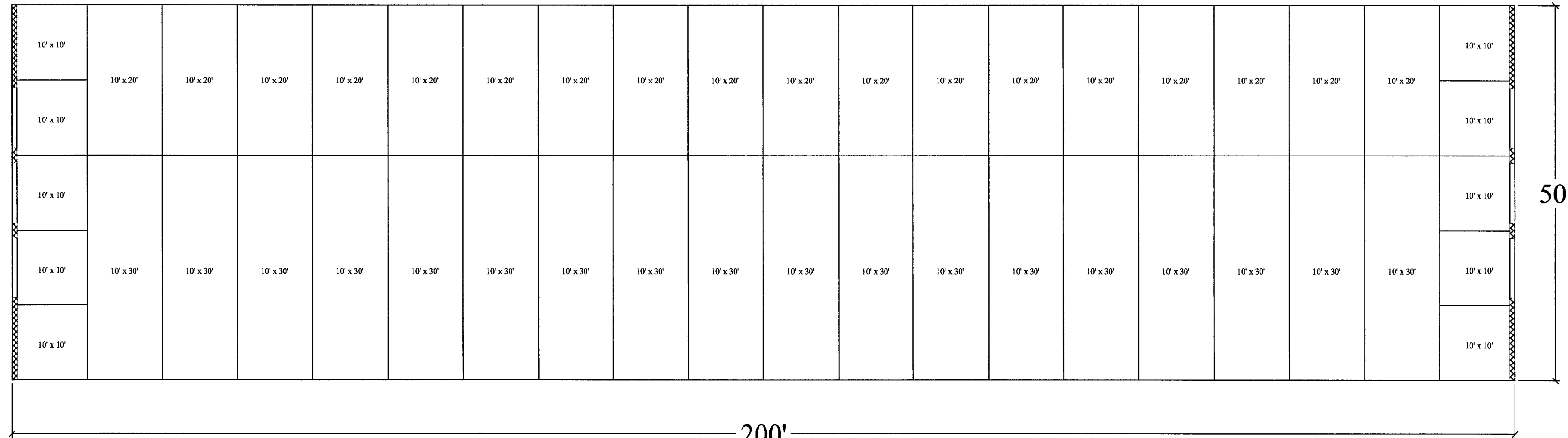
S	
SC	SLIP CRITICAL
SCH	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SJ	SAWCUT JOINT
SJI	STEEL JOIST INSTITUTE
SL	SLOPE
SP	
SPECS	SPECIFICATIONS
SQ	SQUARE
SSL	SHORT SLOTTED
STD	STANDARD
STIFFR	STIFFENER
STL	STEEL
STR	STRENGTH
STRL	STRUCTURAL
SW	SHORT WAY OR SHEAR WALL
STMM	SYMMETRICAL

T	
T&B	TOP & BOTTOM
TB	TIE BEAM
TC	TIE COLUMN
TDS	TURNED-DOWN SLAB
TEMP	TEMPERATURE
THK	THICK
THNS	THICKENED SLAB
TOP'G	TOPPING
TYP	TYPICAL
T/	TOP OF

U	
UNO	UNLESS NOTED OTHERWISE
UD	ULTRA DEK

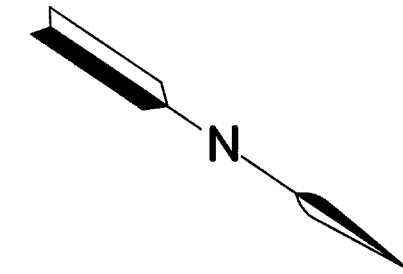
V	
VERT	VERTICAL

W	
WD	WOOD
WF	WALL FOOTING
WO	WINDOW OPENING
WWF	WELDED WIRE FABRIC
W/	WITH

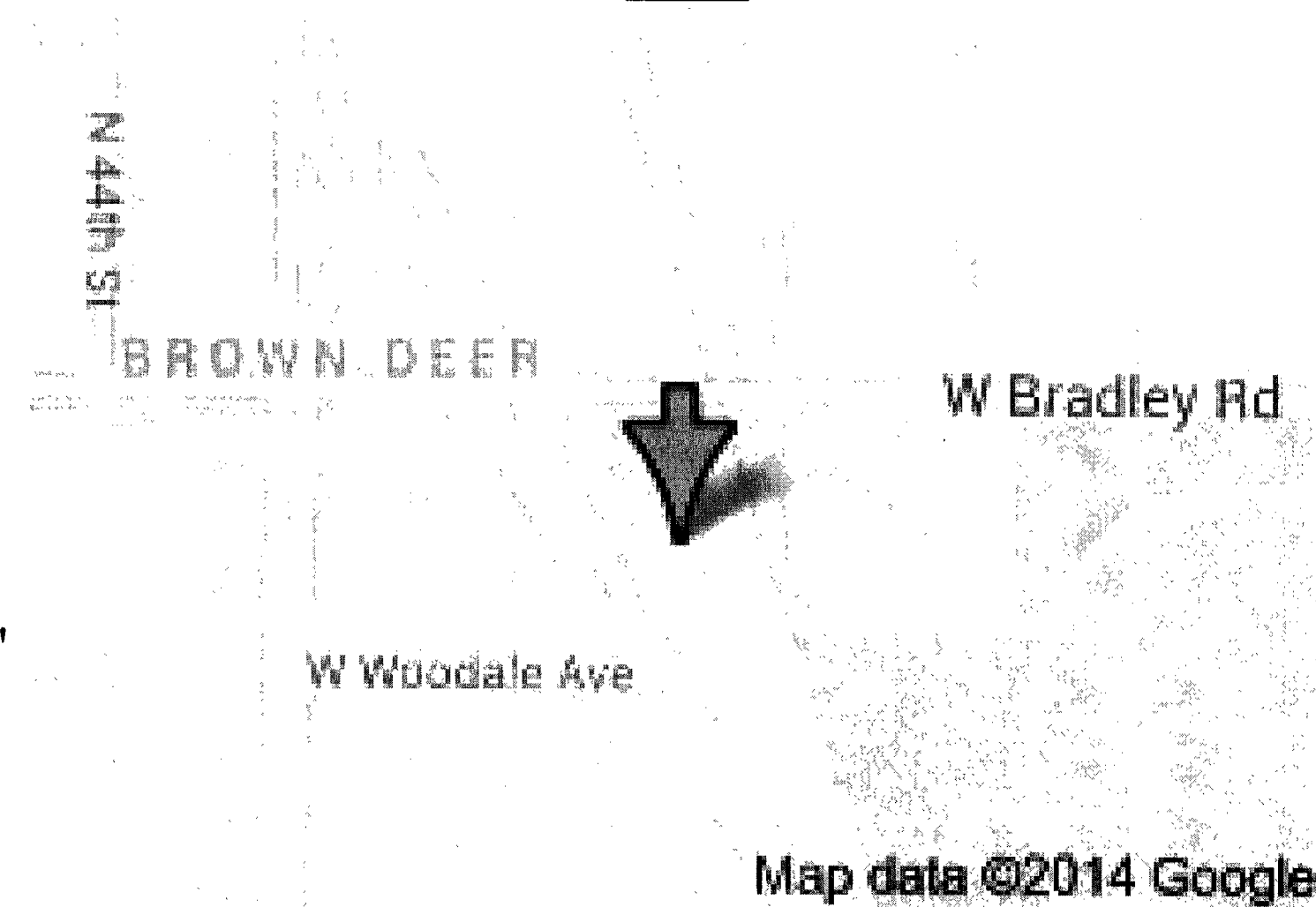
METRO STORAGE
BROWN DEER, WISCONSINSTRUCTURE A
4,000 SQ.FT.STRUCTURE B
7,650 SQ.FT.STRUCTURE C
10,000 SQ.FT.

SHEET INDEX

C-1	COVER SHEET
S-0	GENERAL NOTES
S-0.1	CODE ANALYSIS
S-0.2	ROOF PLAN
S-1	STRUCTURE A UNIT MIX
S-1.1	STRUCTURE A ELEVATIONS & SECTION
S-2	STRUCTURE B UNIT MIX
S-2.1	STRUCTURE B ELEVATIONS & SECTION
S-3	STRUCTURE C UNIT MIX
S-3.1	STRUCTURE C ELEVATIONS & SECTION
SD-1	STRUCTURAL DETAILS
SD-2	STRUCTURAL DETAILS
SD-3	STRUCTURAL DETAILS



MAP



FINISH SCHEDULE

Roll-up Doors	Janus Forest Green
Roof (storage)	Galvalume
Gutters/Rake trim	Classic Green
Perimeter Panel	Light stone
Trim	Light stone
Downspouts	Light stone
Piers & Headers	Light stone

* Color Selections must be on File prior to Releasing for Fabrication

MARKUPS

#1 BY:JSV DATE:10-27-14
RED LINES

REVISIONS

#1 BY: DATE:

METRO STORAGE
4059 W. BRADLEY RD.
BROWN DEER
WISCONSIN 53209

COVER SHEET

OWNER'S SIGNATURE

FINAL APPROVED DRAWINGS
MANUFACTURING RELEASETHE RABCO CORPORATION
1041 CROWN PARK CIRCLE WINTER GARDEN, FL 34787
800/989-0220 CB C047783 Fax: 407/877-9065ROBERT M. BEATTIE, PE
PROFESSIONAL ENGINEER
STATE OF WISCONSIN
NO. 5-26587-006
DATE: 10-29-14DRAWN BY: JSV DATE: 10-10-14
CHECKED BY: JSV DATE: 10-10-14SCALE: N.T.S.
JOB NUMBER: 1703
FILE NAME: 1703STR.dwgSHEET
C-1

GENERAL NOTES

1. THESE PLANS AND THE INFORMATION CONTAINED HEREIN ARE THE PROPERTY OF SELLER/SUBCONTRACTOR, AND ARE TO BE USED SOLELY IN CONNECTION WITH ERECTION OF BUILDING SYSTEMS AND MATERIALS SOLD TO OWNER / CONTRACTOR BY SELLER / SUBCONTRACTOR. UNAUTHORIZED COPYING, DISCLOSURE OR OTHER UNAUTHORIZED USES ARE PROHIBITED.
2. OWNER / CONTRACTOR IS RESPONSIBLE TO PROVIDE SELLER/ SUBCONTRACTOR WITH APPROVED PLANS PRIOR TO FABRICATION.
3. OWNER / CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY AND REQUIRED PERMITS, FEES, DEPOSITS, ETC.
4. THE OWNER AND/OR CONTRACTOR SHALL REVIEW AND DETERMINE THAT ALL DIMENSIONS ARE COORDINATED AS REQUIRED WITH ALL OTHER DESIGN PROFESSIONALS' DRAWINGS AND SHOP DRAWINGS FOR PROJECT PRIOR TO FABRICATION OF MATERIALS OR THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE SELLER/ SUBCONTRACTOR AND ENGINEER OF RECORD PRIOR TO FABRICATION.
5. PRODUCTS SHIPPED TO OWNER / CONTRACTOR SHALL BE INSPECTED BY IMMEDIATELY UPON ARRIVAL.
6. THE SHEET LEDGES, RAIN LIPS AND MASONRY LEDGES ARE VITAL TO THE PROPER FIT OF THE STEEL CONSTRUCTION. OWNER / CONTRACTOR SHALL FIELD VERIFY ALL TO BE AS SHOWN ON DRAWINGS. IF THEY ARE NOT TO THE DRAWINGS, OWNER / CONTRACTOR SHALL CONTACT SELLER/ SUBCONTRACTOR PRIOR TO START OF STEEL ERECTION.
7. SHOP DRAWING PROVIDED BY OTHER TRADES ARE CRITICAL TO ENSURE THE DIMENSIONS AND DESIGN OUTLINED IN THESE PLANS MEET THE MINIMUM REQUIREMENTS REQUIRED BY THESE SCOPES OF WORK IF UNDER CONTRACT BY OTHERS. IN THE EVENT THE CONTRACTOR'S OR OWNER'S FAILING TO PROVIDE, HE SHALL BE RESPONSIBLE FOR THE RESULTS OR ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME (EXAMPLES: ELEVATOR, STAIRWELL, DOORS, ETC....).
8. ANY OMISSIONS AND/OR CONFLICTS WITH PLANS SHALL BE REPORTED IMMEDIATELY TO SELLER/SUBCONTRACTOR SO THAT THEY CAN BE RESOLVED PRIOR TO PROCEEDING WITH WORK.
9. OWNER / CONTRACTOR SHALL NOT SCALE DRAWINGS - IF A REQUIRED DIMENSION IS MISSING, OWNER / CONTRACTOR SHALL CONTACT THE SELLER / SUBCONTRACTOR AND / OR ENGINEER OF RECORD.
10. NO MODIFICATIONS TO PLANS SHALL BE MADE WITHOUT THE PERMISSION OF SELLER/SUBCONTRACTOR AND ENGINEER OF RECORD. MODIFICATIONS REQUIRED DUE TO FIELD CONDITIONS, OTHER CONTRACTORS OR ITEMS WHICH MAY ADVERSELY AFFECT THE STRUCTURE REQUIRES WRITTEN PERMISSION (NO MODIFICATIONS TO STRUCTURAL MEMBERS IS ALLOWED).
11. ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TO BE TYPICAL OR SIMILAR UNLESS ANOTHER SECTION OR DETAIL IS REFERENCED ON THE PLANS.
12. SCOPE OF WORK OF SELLER/SUBCONTRACTOR IS INDICATED IN THE CONTRACT. THE DRAWINGS REFLECT SCOPES OF WORK AS REQUIRED FOR PERMITTING OR AT THE DIRECTION OF OWNER / CONTRACTOR. IN THE EVENT OF A DISCREPANCY BETWEEN THE CONTRACT AND DRAWINGS, THE TERMS OF THE CONTRACT WILL GOVERN.
13. SELLER/SUBCONTRACTOR DOES NOT PROVIDE A RATED CEILING IN SHAFT ENCLOSURES UNLESS NOTED ON PLANS.
14. THESE DRAWINGS ARE DESIGNED TO MEET THE REQUIREMENTS OF THE OF THE LOCAL BUILDING CODE AS DESIGNATED UNDER "STRUCTURAL DESIGN CRITERIA" SECTION OF THESE DRAWINGS.
15. ALL COMPONENTS AND CLADDING FURNISHED BY OTHERS NOT INCORPORATED IN THESE DRAWINGS ARE REQUIRED TO MEET THE MINIMUM DESIGN CRITERIA OUTLINED IN THESE DRAWINGS. OWNER / CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO GOVERNING AUTHORITIES AS REQUIRED.
16. PONDING LOADS ARE NOT APPLICABLE ON SELF STORAGE BUILDINGS WHERE THE PRIMARY ROOF DRAINAGE IS ACCOMPLISHED BY GUTTERS AND DOWNSPOUTS. SECONDARY DRAINAGE OCCURS WITH GUTTER OVERFLOW WHICH IS AT OR BELOW EAVE HEIGHT OF BUILDING(S).
17. THE CONTRACTOR / OWNER SHALL TAKE ALL NECESSARY STEPS TO PROTECT THE STRUCTURE, THE WORK, AND OTHER PEOPLE DURING CONSTRUCTION. IF OWNER / CONTRACTOR PERFORMS THE ERECTION, CONTRACTOR / OWNER SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION.
18. IF ANYTHING IN THESE DRAWINGS CONFLICTS WITH THE CONTRACT, THE TERMS OF THE CONTRACT SHALL GOVERN.
19. TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE OWNER AND /OR CONTRACTOR U.N.O IN CONSTRUCTION DOCUMENTS.
20. THE OWNER AND/OR CONTRACTOR SHALL TEMPORARY BRACE AND/OR SHORE EXISTING AND NEW CONSTRUCTION AS REQUIRED TO ENSURE THE STRUCTURAL STABILITY IS NOT COMPROMISED IF DEMOLITION INVOLVED. BRACING AND/OR SHALL REMAIN IN PLACE UNTIL THE STUCTURAL WORK IS COMPLETE AND HAS BEEN INSPECTED BY A TESTING AGENCY AND IS CERTIFIED TO BE IN SUBSTANTIAL COMPLIANCE WITH PALMS AND SPECIFICATIONS. THE CONTRACTOR
21. EVERY REASONABLE EFFORT HAS BEEN MADE TO ENSURE COORDINATION BETWEEN THESE DRAWINGS AND THE BOUND STRUCTURAL SPECIFICATIONS. IF A DISCREPANCY IS DISCOVERED, THE OWNER/CONTRACTOR SHALL IN WRITING, REQUEST A CLARIFICATION IN THE ABSENCE OF SAID REQUIREMENT THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

STRUCTURAL NOTES

1. TEMPORARY BRACING SHALL BE PROVIDED TO RESIST WIND LOADING ON STRUCTURAL COMPONENTS AND STRUCTURAL ASSEMBLIES DURING ERECTION AND CONSTRUCTION PHASE.
2. NEVER ALLOW YOUR ROOF TO COME IN CONTACT WITH, OR WATER RUNOFF FROM, ANY DISSIMILAR METAL INCLUDING BUT NOT LIMITED TO COPPER, LEAD OR GRAPHITE. THIS INCLUDES COPPER AND ARSENIC SALTS USED IN TREATED LUMBER, CALCIUM USED IN CONCRETE, MOTAR AND GROUT.
3. SCOPES OF WORK BY OTHERS WHOSE LATERAL LOADS WILL BE TRANSFERRED INTO STEEL MEMBER PROVIDED BY SELLER / SUBCONTRACTOR SHALL BE TEMPORARILY BRACED BY OTHERS IN A METHOD THAT DOES NOT INTERFERE WITH ERECTION OF STEEL, UNTIL STEEL ERECTION IS COMPLETE.
4. THE UNCOATED MINIMUM STEEL THICKNESS OF THE COLD-FORMED PRODUCTS AS DELIVERED SHALL NOT BE LESS THAN 95% PERCENT OF THE DESIGN THICKNESS. THICKNESS MEASUREMENTS MAY BE MADE ANYWHERE ACROSS THE WIDTH OF THE SHEET, BUT NOT CLOSER TO THE EDGES THAN THE MINIMUM DISTANCES SPECIFIED IN THE RELEVANT ASTM SPECIFICATIONS. THICKNESS AT BENDS, SUCH AS CORNERS, MAY BE LESS THAN 95 PERCENT OF DESIGN THICKNESS, DUE TO COLD-FORMING EFFECTS, AND STILL BE ACCEPTABLE.
5. RECESSED ENTRIES AND BREEZEWAYS MUST BE RECESSED BELOW FINISHED FLOOR TO AVOID POTENTIAL WATER PROBLEMS. ROLL UP LOCATED IN BREEZEWAY MUST BE INSTALLED IN RECESSED AREA. IF A CHANGE IS MADE BY OWNER/CONTRACTOR SELLER/SUBCONTRACTOR MUST BE NOTIFIED IMMEDIATELY.
6. ALL ERECTION, FABRICATION, WORKMANSHIP AND INSTALLATION SHALL BE IN ACCORDANCE WITH INSTALLATION PROCEDURES MANUAL AND / OR INDUSTRY STANDARDS APPROVED BY SELLER / SUBCONTRACTOR AND THE ENGINEER OF RECORD.

ROOF SYSTEMS: MBGI OR EQUAL

1. ROOFING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECS, ALONG WITH SELLER / SUBCONTRACTOR INSTALL. PROCEDURES MANUAL.
2. ROOF SHEETS SHOULD BE INSTALLED FROM THE LOWEST STEP- DOWN TO HIGHEST ELEVATION.

INSULATION: BAY INSULATION SUPPLY CO. OR EQUAL

1. VINYL BACKED INSULATION - BY BAY INSULATION OR EQUAL. R-VALUES FOR WINTER CONDITIONS (MEAN 40 DEGREES F): 3.0" - 0.6 LB DENSITY FIBERGLASS 3.0" = 10, 3.5" - 0.6 LB DENSITY FIBERGLASS 3.0" = 11, 4.0" - 0.6 LB DENSITY FIBERGLASS 3.0" = 13, 6.0" - 0.6 LB DENSITY FIBERGLASS 3.0" = 19.
2. POLY FOIL FIRE RATED R-FOIL BY TYM OR EQUAL SINGLE BUBBLE R-VALUES FOR ROOF = 10 DOUBLE BUBBLE R-VALUES FOR ROOF = 10
3. INSULATION SHALL BE INSTALLED PER THE MANUFACTURER'S PUBLISHED INSTRUCTIONS. INSULATION MAY BE INSTALLED IN ONE OR MULTIPLE LAYERS TO MEET THE REQ. R-VALUE.

FASTENERS AND ANCHORS

1. THE FOLLOWING OUTLINES THE MECHANICAL ANCHORS THAT ARE APPROVED FOR USE ON THIS PROJECT.
- A. EXPANSION ANCHORS - "KWICK BOLT 3" BY HILTI OR EQUAL. DRILL HOLE IN CONCRETE OR GROUT FILLED CMU AND REMOVE DUST. THE MIN. HOLE DEPTH MUST EXCEED THE ANCHOR EMBEDMENT PRIOR TO TORQUING BY ONE HOLE DIAMETER. DRIVE THE ANCHOR INTO THE HOLE USING A HAMMER. A MIN. OF SIX THREADS MUST BE BELOW THE SURFACE OF THE FIXTURE. TIGHTEN THE NUT TO THE RECOMMENDED INSTALLATION TORQUE (1/2" = 40 lbs./ft.).
- B. ADHESIVE ANCHORS IN CONCRETE - "HIT HY 150" BY HILTI OR EQUAL.
- C. ADHESIVE ANCHORS IN GROUT FILLED BLOCK - "HIT HY 20" BY HILTI OR EQUAL.
- D. ADHESIVE ANCHORS IN HOLLOW BLOCK - "HIT HY 20" WITH SCREEN TUBES BY HILTI OR EQUAL.
- E. CONCRETE/MASONRY SCREWS - "KWICK CON-II" BY HILTI OR EQUAL.
- F. POWDER-ACTUATED FASTENERS (PAF) - "DIX" BY HILTI OR EQUAL.
2. ALL FASTENERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

COLD FORMED STEEL: LGSJ SECTIONS OR EQUAL

1. COLD FORM STEEL SECTIONS SHALL CONFORM TO APPLICABLE PROVISIONS OF ASTM A572, ASTM A607 AND/OR ASTM A611.
2. MIN. DELIVERED THICKNESS OF COLD FORMED STEEL C'S & Z'S
- | GAGE | DESIGN THICKNESS | FINISH |
|------|------------------|--------------------------|
| 12 | 0.105 | RED-OXIDE U.N.O ON PLANS |
| 14 | 0.07 | RED-OXIDE U.N.O ON PLANS |
| 16 | 0.059 | RED-OXIDE U.N.O ON PLANS |
| 18 | 0.0468 | GALVANIZED |
| 20 | 0.0352 | GALVANIZED |
3. MIN. DELIVERED THICKNESS OF COLD FORMED STEEL PIERS & HEADERS
- | GAGE | DESIGN THICKNESS | FINISH |
|------|------------------|----------------------------------|
| 14 | 0.07 | TEX-COTE FINISH APPLIED IN FIELD |
| 16 | 0.059 | TEX-COTE FINISH APPLIED IN FIELD |
| 18 | 0.055 | PRE-FINISHED |
| 18 | 0.0468 | TEX-COTE FINISH APPLIED IN FIELD |
- NOTES: INSIDE RETURN ON PIERS IS 3 1/2" TO 4", VERIFY REQUIRED DIMENSIONS FOR EXTERIOR ROLL UP DOORS.
4. LOAD BEARING STUD TO TRACK CONNECTIONS: THE ENDS OF THE LOAD BEARING STUDS MUST BE INSTALLED INTO THE TOP AND BOTTOM TRACKS SO THAT THE GAP BETWEEN THE ENDS OF THE STUD AND THE WEB OF THE TRACK IS AS SMALL AS PRACTICABLE AND IN NO CASE GREATER THAN 3/16" AT THE TIME OF INSTALLATION. THE GAP MUST BE LESS THAN 1/16" AFTER THE DEAD LOAD OF THE STRUCTURE IS IN PLACE.

HOT ROLLED STEEL

1. DESIGN OF STRUCTURAL STEEL ELEMENTS WAS COMPLETED UNDER THE REQUIREMENTS SET FORTH IN THE "MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN (LATEST EDITION)".
2. MATERIAL SPECIFICATIONS
- A. ALL STEEL SHALL BE DOMESTICALLY PRODUCED.
- B. ASTM A36 - ROLLED SHAPES, PLATES AND BARS.
- C. ASTM A992 - WIDE FLANGE SECTIONS.
- D. ASTM A53, TYPE E, GRADE B - PIPE
- E. ASTM A500 GRADE B - TUBES.
- F. ASTM F1554 (A36) - ANCHOR BOLTS, RODS, NUTS & WASHERS.
- G. ASTM A108 GRADE 1015 THROUGH 1020, COLD FINISHED CARBON STEEL, AWS D1.1, TYPE B - HEADED STUDS.
- H. ASTM A325, TYPE N - BOLTED STRUCTURAL CONNECTION
- I. ASTM A307 - FOR BOLTED CONN. OF LESS THAN 5/8" DIA
- J. E70XX ELECTRODE (LOW HYDROGEN) - WELDED CONN. (U.N.O)
- K. BOLTED CONN. SHALL BE MADE WITH A MIN. OF 3/4" DIA BOLTS (U.N.O.)
- L. WELDED CONN. SHALL BE A MIN. OF 3/16" FILLET WELD ALL AROUND FOR CONN. MEMBERS OF UP TO 1/4" FILLET WELD FOR ALL OTHER MEMBERS THICKNESS (U.N.O.)
3. ALL BOLTED CONNECTIONS SHALL BE "SNUG-TIGHT" AS DEFINED IN THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" BY RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (ROSC) (U.N.O.)
4. BOLTED CONNECTIONS, INDICATED TO BE "SLIP CRITICAL" (SC) SHALL BE INSTALLED, TIGHTENED, TESTED AND INSPECTED AS OUTLINED IN THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" BY RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (ROSC) (U.N.O.)
5. BRACE AND MAINTAIN ALL STEEL IN ALIGNMENT UNTIL OTHER PARTS OF CONSTRUCTION NECESSARY FOR PERMANENT SUPPORT ARE COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TEMPORARY SHORING AS REQUIRED FOR THE STABILITY OF THE STEEL FRAME UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AND BUILDING IS ENCLOSED.
6. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.
7. GROUT FOR COLUMN BASE PLATES AND PRESET BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT (5000PSI MIN.)
8. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF ASTM A123.
9. STRUCTURAL STEEL SHALL RECEIVE SHOP COAT OF PRIMER (COLOR AS DIRECTED BY ARCHITECT) EXCEPT AREAS THAT WILL RECEIVE SPRAY-ON FIRE PROTECTION.
10. BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS SHALL BE DESIGNED BY THE STEEL FACRICATORS FOR THE REACTIONS SHOWN ON THE FRAMING PLANS. SIGNED AND SEALED SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW, WHICH CLEARLY INDICATE THE ALLOWABLE LOAD CAPACITY OF EACH UNIQUE CONNECTION. WHERE REACTION IS NOT INDICATED ON THE PLANS, THE CONNECTION SHALL BE DESIGNED FOR THE MAXIMUM SHEAR CAPACITY OF THE BEAM, FOR THE GIVEN SPAN.

STEEL DECKING

1. THE REQUIREMENTS OF THE LATEST ADOPTED EDITION OF THE AISI SECTION A3, SHALL GOVERN FABRICATION OF THE SPECIFIED STEEL DECK.
2. THE MINIMUM YIELD STRENGTH OF THE STEEL USED SHALL BE 33KSI (230MPa).
3. ALL FIELD WELDING OF DECK SHALL BE IN STRICT CONFORMANCE WITH ANSI / AWS D1.3 STRUCTURAL WELDING CODE.
4. GALVANIZING SHALL CONFORM TO ASTM-A653-94, STRUCTURAL QUALITY, AND FEDERAL SPEC. QQ-S-775.
5. THE VALUES LISTED IN THE TABLE SHOWN BELOW IS FROM THE VULCRAFT METAL DECK PRODUCT MANUAL AND REPRESENTS THE MINIMUM ROOF DECK SECTION PROPERTIES THAT ARE REQUIRED BY DESIGN.

ROOF DECK

DECK TYPE	DESIGN THICK	I In 4/FT	Sp In 3/FT	Sn In 3/FT
B22	0.0295	0.169	0.186	0.192
B20	0.0358	0.212	0.234	0.247
B18	0.0474	0.282	0.318	0.327

6. COMPOSITE STEEL FLOOR DECK SHALL BE ATTACHED TO THE SUPPORTING STRUCTURE AS RECOMMENDED BY THE MANUFACTURER, WITH MAX. SPACING NOT TO EXCEED 24" O.C.
7. THE VALUE LISTED IN THE TABLE SHOWN BELOW IS FROM THE VULCRAFT METAL DECK PRODUCT MANUAL AND REPRESENTS THE MINIMUM COMPOSITE FLOOR DECK SECTION PROPERTIES THAT ARE REQUIRED BY DESIGN.

COMPOSITE FLOOR DECK

DECK TYPE	DESIGN THICK	Ip / In In 4/FT	Sp / Sn In 3/FT
1.5VL22	0.0295	0.150/182	0.178/0.186
1.5VL20	0.0358	0.195/0.222	0.231/0.24
1.5VL18	0.0474	0.282/0.295	0.315/0.327
2.0VL22	0.0295	0.322/0.329	0.274/0.277
2.0VL20	0.0358	0.418/0.415	0.355/0.36
2.0VL18	0.0474	0.577/0.557	0.513/0.518
3.0VL22	0.0295	0.746/0.745	0.429/0.422
3.0VL20	0.0358	0.938/0.937	0.553/0.572
3.0VL18	0.0474	1.251/1.251	0.795/0.803

8. NON-COMPOSITE STEEL FLOOR DECK SHALL BE ATTACHED TO THE SUPPORTING STRUCTURE AS RECOMMENDED BY THE MANUFACTURER WITH MAX. SPACING NOT TO EXCEED 24" O.C.

9. STEEL USED TO MANUFACTURE THE NON-COMPOSITE METAL FLOOR DECKING SHALL CONFORM TO THE REQUIREMENTS OF ASTM-A611 GRADES C, D, OR E OR/ANR A653-94 STRUCTURAL QUALITY.
10. THE VALUES LISTED IN THE TABLE SHOWN BELOW IS FROM THE VULCRAFT METAL DECK PRODUCT MANUAL AND REPRESENTS THE MINIMUM NON-COMPOSITE FLOOR DECK SECTION PROPERTIES THAT ARE REQUIRED BY DESIGN.
- NON COMPOSITE FLOOR DECK
- | DECK TYPE | DESIGN THICK | Ip / In In 4/FT | Sp / Sn In 3/FT |
|-----------|--------------|-----------------|-----------------|
| 0.6C26 | 0.0179 | 0.015/0.015 | 0.043/0.043 |
| 0.6C24 | 0.0239 | 0.019/0.019 | 0.057/0.057 |
| 0.6C22 | 0.0298 | 0.024/0.024 | 0.07/0.07 |

MINIMUM STANDARDS FOR ELEVATED FLOORS

1. ALL CONCRETE SHALL HAVE THE FOLLOWING MIN. PROPERTIES:
- | LOCATION | 28 DAY STRENGTH | SLUMP | MAX. AGGR. |
|-----------------------------------|-----------------|---------|------------|
| ELEVATED SLABS FORMED AND POURED | 4,000 PSI | 4" + 1" | 1" |
| ELEVATED SLABS FORMED W/ MTL DECK | 4,000 PSI | 4" + 1" | 1" |
- A. SLUMP FOR RAMPS AND SLOPING SURFACES SHALL NOT EXCEED 4".
- B. SEE MASONRY GENERAL NOTE FOR GROUT TESTING REQUIREMENTS.
- C. COLD JOINTS (NOT RECOMMENDED) & CONTROL JOINTS (NOT REQUIRED) ALTHOUGH IF USED SHOULD BE PLACED A MINIMUM OF 2'-0" OFF CENTERLINE OF COLUMNS.
2. CONCRETE PROPERTIES SHALL BE VERIFIED THROUGH INDUSTRY STANDARD TESTING PROCEDURES BY A CERTIFIED TESTING AGENCY. MIN TEST REQUIRED SHALL INCLUDE SLUMP AND CYLINDER BEAKS FOR COMPRESSIVE STRENGTH. FINDINGS SHALL BE SUBMITTED TO THE ARCH./ENG. FOR REVIEW.
3. CONCRETE WORK SHALL CONFORM TO LATEST EDITIONS OF ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED AND ACI 315 DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.
4. CONCRETE MIX DESIGN SHALL MEET THE FOLLOWING CRITERIA:
- A. PROPOSED MIX DESIGN SHALL BE ACCORDANCE WITH ACI 301 METHOD 1 OR METHOD 2.
- B. ENTRAPPED AIR CONTENT SHALL NOT EXCEED 3%.
- C. ADMIXTURES USED TO ENTRAIN AIR ARE NOT ACCEPTABLE.
- D. ALL CONCRETE TO BE NORMAL WEIGHT WITH A DESIGN STRENGTH AT 28 DAYS.
5. SITE ADDED WATER IS NOT ACCEPTABLE. ADDING WATER TO THE MIX WILL RESULT IN REJECTION OF THE RESULTS BY THE ENGINEER OF RECORD.
6. CONTRACTOR IS RESPONSIBLE FOR THE ADEQUACY OF THE FORMS AND SHORING AND FOR SAFE PRACTICE IN THEIR USE AND REMOVAL.
7. PLACING OF CONCRETE IN ALL REINFORCED COLUMNS AND WALLS SHALL BE IN LIFTS NOT EXCEEDING 7 1/2 FEET IN HEIGHT. CONCRETE SHALL BE PLACED THROUGH ELEPHANT TRUNK TUBULAR SHUTES LOCATED SUCH THAT THE FREE AIR DROP OF THE MIX DOES NOT EXCEED 6 FEET. ALTERNATE PLACEMENT METHOD OF CONCRETE WITH OR WITHOUT ADMIXTURES SHALL NOT BE USED UNLESS APPROVED BY ENGINEER OF RECORD.
8. THE VALUES IN THE TABLE SHOWN BELOW IS FROM THE VULCRAFT METAL DECK PRODUCT MANUAL AND REPRESENTS THE RECOMMENDED WELDED WIRE FABRIC.

DECK TYPE	TOTAL SALB DEPTH	RECOMMENDED WELDED WIRE FABRIC
1.5VL, VLI, or R	<= 4 3/4"	6 X 6 - W14 X W14
1.5VL, VLI, or R	> 4 3/4"	6 X 6 - W21 X W21
2VLI	<= 5 3/4"	6 X 6 - W14 X W14
2VLI	> 5 3/4"	6 X 6 - W21 X W21
3VLI	<= 6 3/4"	6 X 6 - W14 X W14
3VLI	> 6 3/4"	6 X 6 - W21 X W21

FIBER REINFORCED CONCRETE IS AN ALTERNATE TO WELDED WIRE FABRIC (WWF). REINFORCED CONCRETE FIBERS SHALL BE 100% VIRGIN POLYPROPYLENE, FIBRILLATED FIBERS AS MANUFACTURED BY FIBER MESH CO, OR APPROVED EQUAL, APPLIED AT A RATE OF 1-1/2 LBS/CY.

CONCRETE WORK

1. MONOLITHIC SLAB FINISHES: THE FOLLOWING REQUIREMENTS ARE BASED ON THE LATEST FLOOR FLATNESS (FF) / FLOOR LEVELNESS (FL) VALUES/METHODS. BIDS FOR THIS WORK SHALL REFLECT THESE REQUIREMENTS AND ENFORCEMENT THEROF CAN BE EXPECTED.
- A. NON-CRITICAL FLOOR TOLERANCE
1. FLOAT FINISH (FLT-FN)
2. SPECIFIED OVERALL VALUE: FF25/FL20
3. MINIMUM LOCAL VALUE: FF25/FL20
4. APPLY FLOAT FINISH TO MONOLITHIC SLAB SURFACES THAT ARE TO RECEIVE MUD SET TILE AND OTHER THICK FINISHES, AND TO SLAB SURFACES WHICH ARE TO BE COVERED WITH WATERPROOFING MEMBRANE.
- B. TYPICAL CORRIDOR OR NORMAL SIZED ROOMS (100-600 SF)
1. TROWEL FINISH 1 (TR-FN1)
2. SPECIFIED OVERALL VALUE: FF30/FL23
3. MINIMUM LOCAL VALUE : FF25/FL20
4. APPLY TROWEL FINISH TO MONOLITHIC SLAB SURFACES THAT ARE TO RECEIVE RESILIENT FLOORING, CARPET, PAINT, OR OTHER THIN FILM FINISH COATING SYSTEM.
- ELEVATED SLABS SHALL HAVE A SPECIFIED OVERALL VALUE OF FF22 TO FF27 AND A MINIMUM LOCAL OF FF20 WITH NO FL NUMBER DEFINED.

CONCRETE WORK, CONT.

2. MINIMUM THICKNESS OF SLAB ON GRADE IS THE GREATER OF 3" OR 0.8 TIMES ANCHOR EMBEDMENT SPECIFIED IN CONSTRUCTION DOCUMENTS (ASSUMES USE OF HILTI KWIK BOLT 3).
3. CONTROL JOINT AND CONTROL JOINTS SHOULD BE PLACE A MIN. 2' - 0" OFF THE CENTERLINE OF COLUMNS. IF THE DISTANCE BETWEEN COLUMNS IS LESS THAN 4' - 0" BUT GREATER THAN 2' - 6" THEN PLACE AT MID-POINT OTHERWISE CONTACT ENGR. OF RECORD.

SITE REQUIREMENT NOTES

1. OWNER / CONTRACTOR SHALL ENSURE THAT SITE IS STABILIZED AND MAINTAINED DURING HEAVY PRECIPITATION.
2. OWNER / CONTRACTOR SHALL PROVIDE MATERIAL STORAGE AREA ON SITE OTHER THAN BUILDING BEING ERECTED.
3. OWNER / CONTRACTOR SHALL PROVIDE A CONSTRUCTION DUMPSTER UNIT ON THE JOBSITE AT NO COST TO SELLER / SUBCONTRACTOR.
4. OWNER / CONTRACTOR SHALL PROVIDE TEMPORARY POWER TO ALLOW FOR A MAXIMUM POWER LEAD RUN OF 200 FEET TO EACH STRUCTURE BEING ERECTED.
5. TEMPORARY POWER MUST MEET ALL APPLICABLE CODES AND SAFETY REQUIREMENTS.
6. OWNER / CONTRACTOR MUST ENSURE THAT BUILDING PADS ARE BROOM CLEAN AND FREE OF DEBRIS PRIOR TO SELLER / SUBCONTRACTOR CREW BEGINNING INSTALLATION SEQUENCE AS AGREED.
7. OWNER / CONTRACTOR SHALL ENSURE THAT THE SITE AND ALL SIDES OF BUILDING ARE ACCESSIBLE WITH EQUIPMENT, AND FREE FROM ANY OBSTRUCTIONS TO DELIVERY OR ERECTION.
8. CLEANING OF MATERIALS, INCLUDING BUT NOT LIMITED TO, WALL PANELS AND STRUCTURAL MATERIALS, IS NOT RESPONSIBILITY OF SELLER/SUBCONTRACTOR.
9. THE OWNER / CONTRACTOR SHALL PROPERLY PROTECT THE WORK FOR PUBLIC SAFETY AND AGAINST ACCIDENTS. WEATHER OR ANY OTHER HAZARDS WITH LIGHTS, GUARDRAILS OR BARRICADES AS APPLICABLE (INCLUDES FALL PROTECTION ON MULTI-STORY BUILDINGS).

MAINTENANCE NOTES

1. ROOF MAINTENANCE GUIDELINES
- A. WALK IN THE FLAT OF THE PANEL NEAR THE STTUTURAL SUPPORTS.
- B. KEEP ROOF, GUTTERS AND DOWNSPOUTS FREE OF DEBRIS.
- C. INSPECT ROOF FOR DAMAGE AFTER HEAVY STORM.
- D. REMOVE EXCESS ICE AND SNOW ACCUMULATIONS AS NECESSARY.
- E. INSPECT AND RESEAL AS NECESSARY ALL ROOF CURBS AND OTHER PENETRATIONS WITH URETHANE SEALANT.
- F. ALWAYS GET MANUFACTURER APPROVAL BEFORE MAKING ANY MODIFICATION TO THE ROOF.
- WHEN PERFORMING ROOF MAINTENANCE ALWAYS TAKE THE FOLLOWING PRECAUTIONS
- A. USE FALL PROTECTION AND OTHER SAFETY EQUIPMENT AS REQUIRED
- B. DO NOT WALK ON THE ROOF FLASHING SUCH AS GUTTER, RAKE, HIP OR RIDGE FLASHING.
- C. DO NOT WALK ON LIGHT TRANSMITTING PANELS (LTP). THEY DO NOT SUPPORT A PERSON'S WEIGHT.
- D. GUARD ALL LTP'S AND ROOF OPENINGS
- E. STEP ONLY IN THE PANEL FLAT DIRECTLY ON OR IN CLOSE PROXIMITY TO A SUPPORTING ROOF STRUCTURAL.

KEY INSPECTION TIMES

- A. AFTER A FIRE, VANDALISM OR KNOWN DAMAGE TO AN ADJACENT ROOF AREA
- B. EXPOSURE TO SERERE WATHER CONDITIONS, INCLUDING HIGH WINDS, HAIL OR ABNORMALLY HEAVY RAINS OR ICE AND SNOW.
- C. AFTER OTHER TRADES HAVE BEEN ON THE ROOF FOR ANY REASON. INSPECT THE ROOF FOR DAMAGE CAUSED BY WORKERS INCLUDING CHEMICAL OR SOLVENT SPILLS, SCRATCHES IN THE FINISH, EXCESSIVE FOOT TRAFFIC AND PUNCTURES. MAKE SURE THAT ANY DEBRIS OR SCRAP LEFT BEHIND BY THE WORKERS IS REMOVED FROM THE ROOF IMMEDIATELY. AVOID USING CUTOFF SAWS AND WELDING EQUIPMENT OVER THE ROOF IN CASES WHERE THIS IS NOT POSSIBLE, THE ROOF MUST BE PROTECTED.
2. FOOT TRAFFIC: KEEP FOOT TRAFFIC TO A MINIMUM. HEAVY FOOT TRAFFIC CAN CAUSE PONDING ON LOW PITCHED ROOFS. THIS IS PARTICULARLY TRUE JUST ABOVE THE EAVE AND AT ENDLAPS. ALWAYS WALK IN THE FLAT OF PANEL NEAR A SUPPORTING ROOF STRUCTURAL. DO NOT WALK ON TRIM OR IN GUTTERS. ON BARE GALVALUME ROOFS, EXCESSIVE FOOT TRAFFIC MAY CAUSE BLACK BURNISH MARKS. IF REGULAR FOOT TRAFFIC IS PLANNED FOR A ROOF, PROVISIONS SHOULD BE MADE FOR A PROPERLY DESIGNED AND INSTALLED ROOF WALKWAY SYSTEM.
3. DRAINAGE: KEEP ROOF FREE OF DEBRIS AND KEEP DEBRIS OUT OF GUTTER TO ALLOW WATER TO QUICKLY DRAIN FROM ROOF. DO NOT USE WOOD BLOCKING TO HOLD UP EQUIPMENT OFF OF PANEL SEAMS. THIS BLOCKS THE FLOW OF WATER AND HOLDS MOISTURE. DO NOT ALLOW ROOFTOP AC UNITS OR EVAPORATIVE COOLERS TO DRAIN ONTO THE ROOF. ANYTHING TRAPS OR HOLDS MOISTURE ON A ROOF WILL CAUSE PREMATURE CORROSION.
4. POST-ERECTION ROOF CLEANING: AFTER THE ROOF INSTALLATION IS COMPLETE, ALL FITTINGS, SHAVING, ETC. FROM FASTENER INSTALLATION ETC. SHALL BE SWEEP COMPLETELY CLEAR OF THE ROOF PANELS. IF THIS DOES NOT HAPPEN, THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY RESULTING CORROSION.
5. DEBRIS REMOVAL: ANY FOREIGN DEBRIS SUCH AS SAWDUST, DIRT, LEAVES, ANIMAL DROPPING, ETC. WILL CAUSE CORROSION OF THE ROOF, GUTTERS, TRIM, ETC. IF LEFT ON BUILDING SURFACE FOR A LONG ENOUGH TIME. THE ROOF SHOULD BE PERIODICALLY INSPECTED FOR SUCH CONDITIONS AND IF FOUND, THEY SHOULD BE RECTIFIED IN A MANNER CONSISTENT WITH THESE ROOF MAINTENANCE GUIDELINES. NEVER ALLOW TREATED LUMBER OR CONCRETE/MOTAR/GROUT TO COME IN CONTACT WITH ROOF PANELS, ESPECIALLY GALVALUME, FOR EXTENDED PERIOD OF TIME.

DESIGN CRITERIA NOTES

TERMITE PROTECTION

ALL BUILDING PADS ARE TO BE PROTECTED FOR TERMITES AS REQUIRED BY GOVERNING CODE AND LOCAL JURISDICTION

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

CONSTRUCTION TYPES II-B & V-B ALL BUILDING ELEMENTS RATINGS ARE ZERO (0).

FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS

CONSTRUCTION TYPES II-B & V-B (ALL USE GROUPS EXCEPT H) REQUIRE A MINIMUM FIRE SEPERATION DISTANCE OF TEN (10) FEET FOR A ZERO (0) RATING.

PERCENTAGE OF OPENINGS IN EXTERIOR WALLS

BUILDINGS WHOSE EXTERIOR WALL AND STRUCTURAL FRAME ARE NOT REQUIRED TO BE FIRE-RESISTANCE RATED SHALL BE PERMITTED TO HAVE UNLIMITED UNPROTECTED OPENINGS

FIRE BARRIERS / FIRE WALLS STRUCTURES DESIGN W/O SPRINKLERS

STORAGE OCCUPANCIES DESIGNED WITHOUT SPRINKLER SYSTEM CANT BE MORE THAN 3 STORIES, CONTAIN FIRE AREA GREATER THAN 12,000SF OR HAVE COMBINED FIRE AREAS GREATER THAN 24,000SF. OUR TYPICAL DESIGN STANDARD IS TO USE 3 HOUR FIRE BARRIERS TO DIVIDE BUILDING INTO FIRE AREAS AND FIRE WALLS TO SEPARATE LARGE STRUCTURES INTO SEPARATE BUILDING TO AVOID EXCEEDING MAXIMUM COMBINED FIRE AREAS.

CORRIDOR FIRE-RESISTANCE RATING

IT IS THE INTENT OF DESIGN TO KEEP OCCUPANCY LOAD SERVED BY A CORRIDOR LESS THAN OR EQUAL TO 30 TO COMPLY WITH ZERO RATING IN BUILDING WITHOUT SPRINKLERS.

FIRE RATED DOOR & HARDWARE

FIRE DOORS AND FRAME SHALL BE LABELED SHOWING THE NAME OF MANUFACTURER, THE NAME OF THE THIRD-PARTY INSPECTOR AGENCY, THE FIRE PROTECTION RATING. ALL RATED DOORS ARE TO BE INSTALLED WITH A POSITIVE STRIKE DEVICE AND BE SELF-CLOSING

PROTECTION RATINGS	MIN. RATING (HOURS)	MAX. AREA (SQ. INCHES)	MAX. HEIGHT (INCHES)	MAX. WIDTH (INCHES)
FIRE BARRIERS				
3 HOUR	3	0	0	0
2 HOUR	1 1/2	100	33	10
1 HOUR	1	100	33	10
RATED EXTERIOR WALLS				
3 HOUR	1 1/2	0	0	0
2 HOUR	1 1/2	0	0	0
1 HOUR	3/4	1296	54	54
FIRE PARTITIONS				
1 HOUR	1/3	1296	54	54

HAREWARE REQUIREMENTS FOR RATED DOORS

- (1) DOORS SHALL BE SELF OR AUTOMATIC CLOSING
- (2) DOORS SHALL BE PROVIDED WITH AN ACTIVE LATCH BOLT THE WILL SECURE THE DOOR WHEN IT IS CLOSED
- (3) DOOR AND FRAME SHALL BE LABELED SHOWING NAME OF MANUFACTURER AND THE THIRD-PARTY INSPECTION AGENCY

COMMON PATH OF TRAVEL

IF A BUILDINGS OCCUPANCY LOAD IS LESS THAN 50 THEN PERSONAL DOORS ARE ALLOWED TO SWING BOTH IN THE DIRECTION OF EGRESS AND AGAINST THE DIRECTION OF EGRESS THIS INSTALLING EXIT LIGHTS ON BOTH SIDE OF PERSONAL DOORS IN CORRIDORS WOULD MAKE THE CORRIDOR A TWO WAY PATH VERSES A SINGLE DIRECTION PATH.

ACCESSIBLE AREA REQUIREMENTS

HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL HAVE A LEVER OPERATED MECHANISM. IF THE DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES

DOORS & DOOR HARDWARE IN ACCESSIBLE PATH

HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL HAVE A LEVER OPERATED MECHANISM. IF THE DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH MEASURED TO THE LEADING EDGE OF THE DOOR. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWING: EXTERIOR DOOR <= 8.5 LBF, INTERIOR DOORS < 5LBF. REFERENCE THE DOOR DETAIL PAGE FOR DETAILS WITH REGARDS TO PROPER INSTALLATION.

MARKUPS

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REVISIONS

A1 BY: DATE:

METRO STORAGE
4059 W. BRADLEY RD.
BROWN DEER
WISCONSIN 53209

GENERAL NOTES

OWNER'S SIGNATURE

FINAL APPROVED DRAWINGS
MANUFACTURING RELEASE

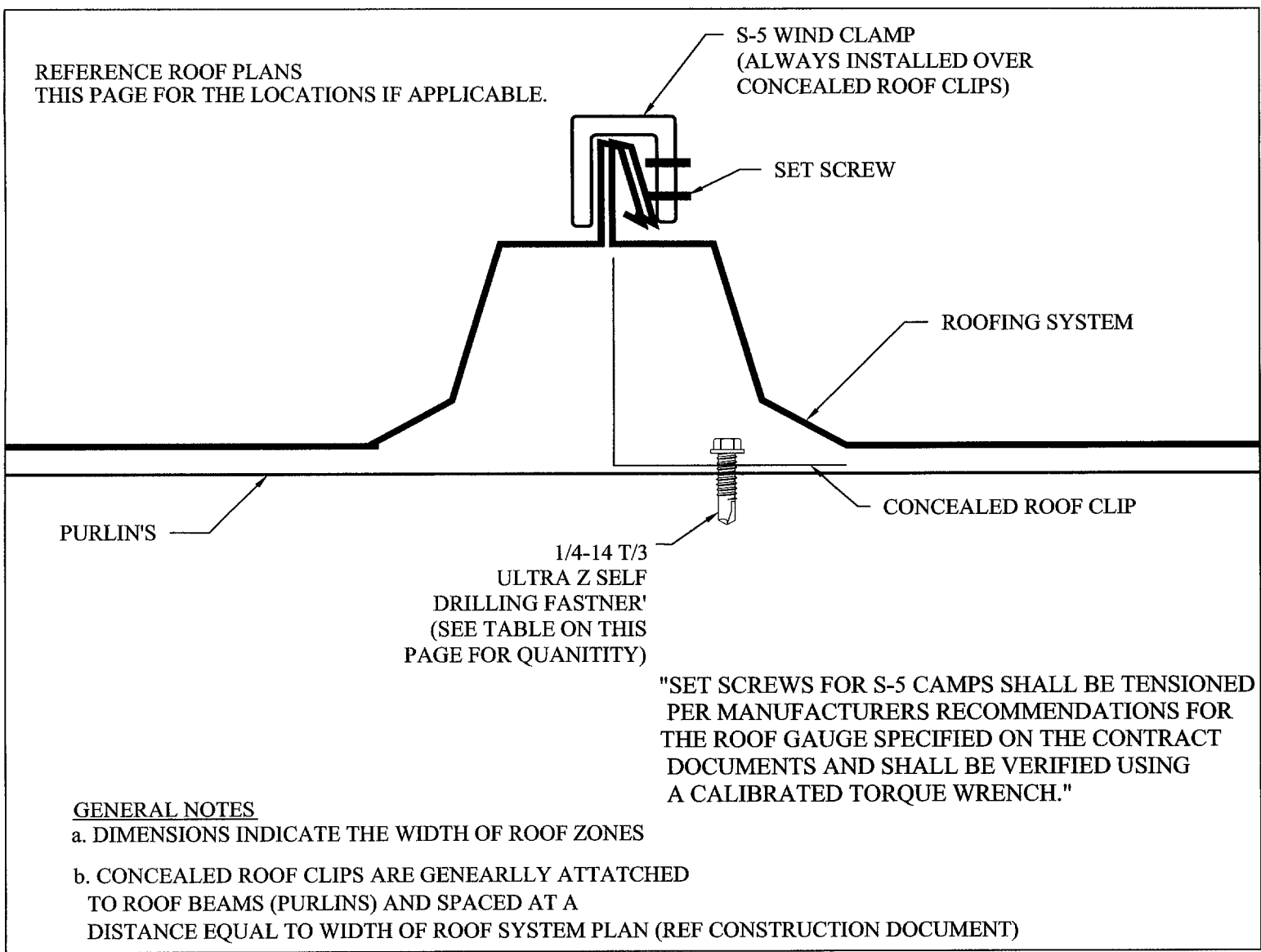
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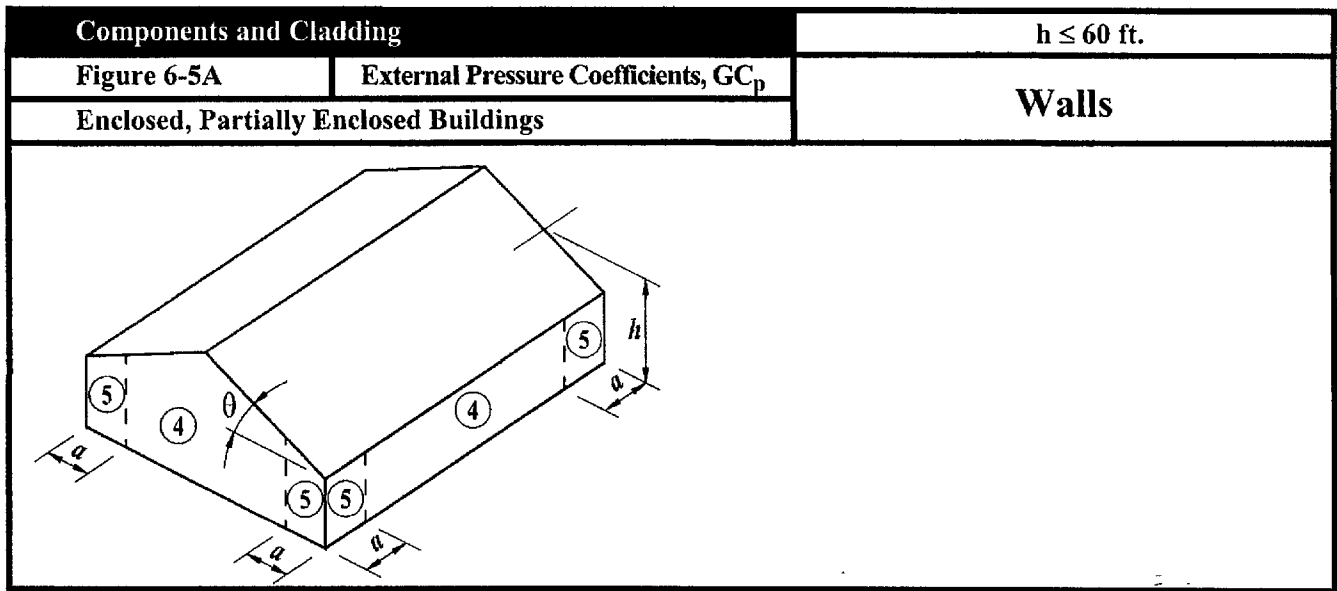
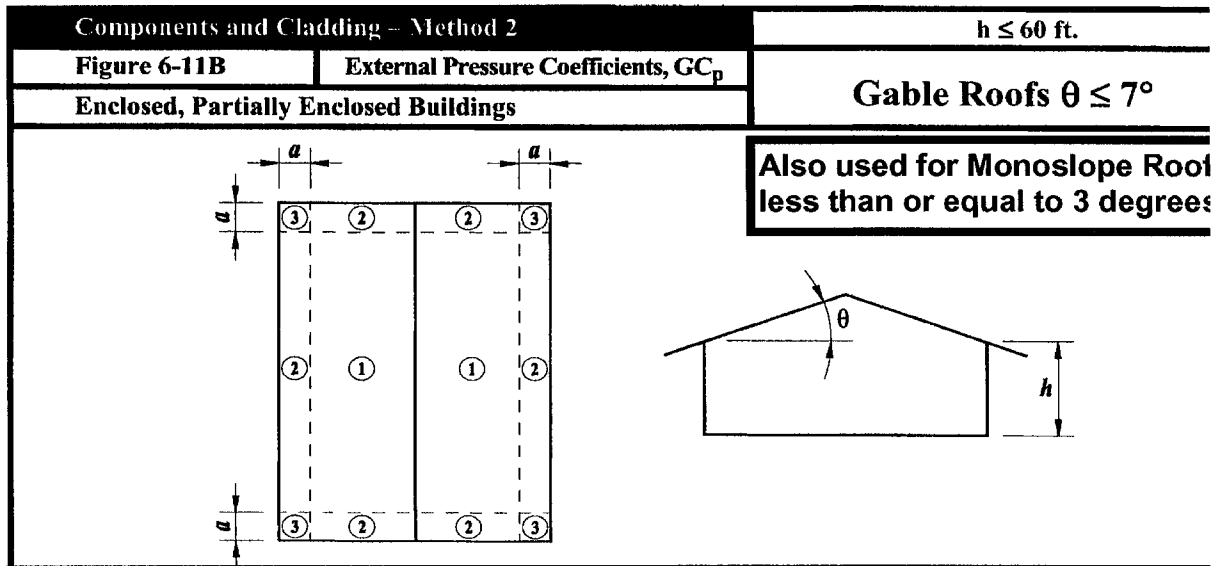
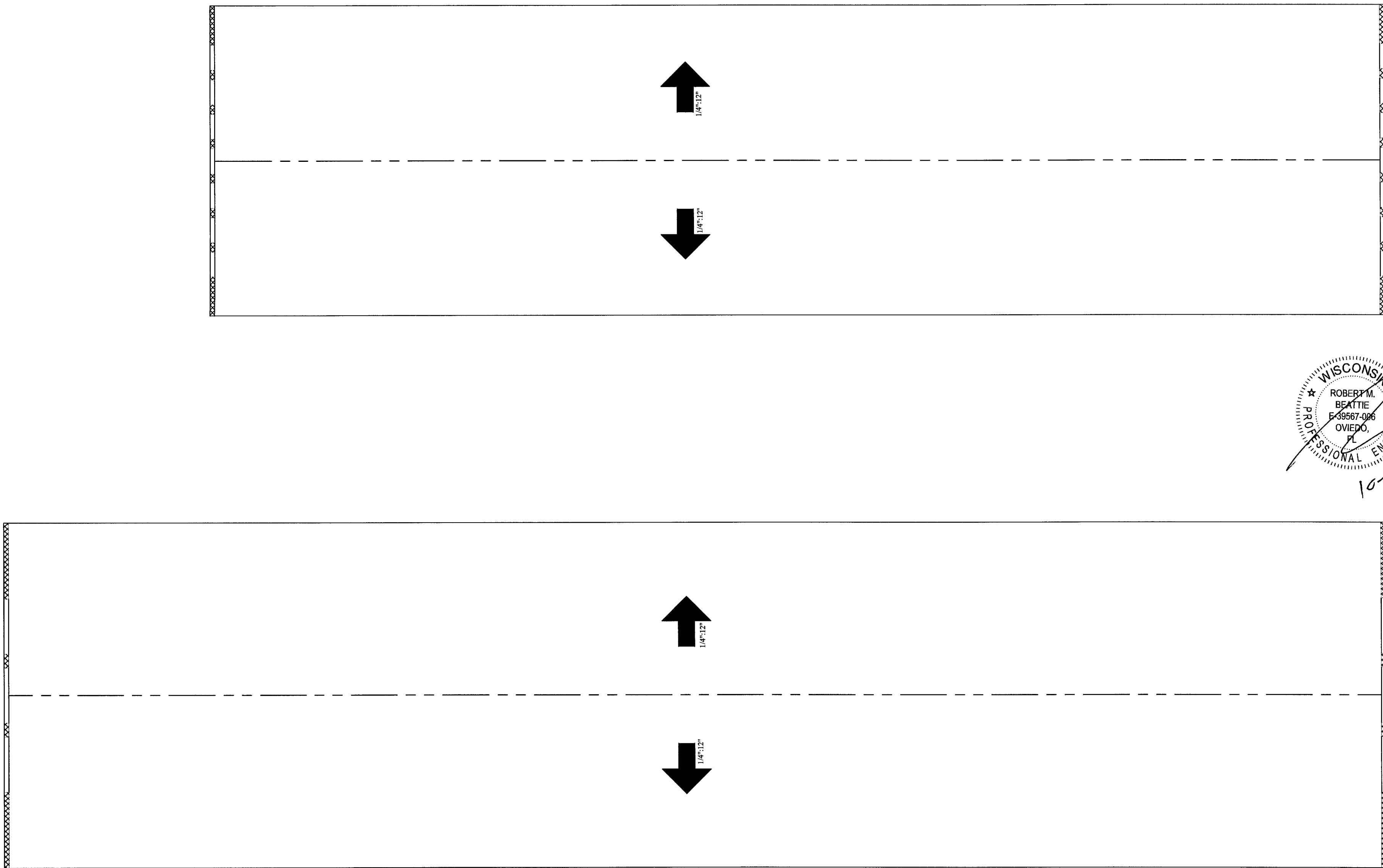
- ☒ 24" WIDE ULTRA DEK ROOFING SYSTEM.
☐ EXTERNAL ROOF CLIPS.

- GENERAL NOTES
- ① DIMENSIONS INDICATE THE WIDTH OF ROOF ZONES.
- ② NUMBERS IN DIAGRAMS TO RIGHT INDICATE ROOF ZONES AND CORRELATE TO COMPONENT PRESSURES FOUND ON SHEET S-0.1 OF CONSTRUCTION DOCUMENTS.

ROOF PITCH TABLE	
RISE (in/ft)	DEG
0.250	1.10
0.375	1.75
0.500	2.39
0.625	2.98
0.750	3.58
0.875	4.17
1.000	4.76
1.125	5.35
1.250	5.95
1.375	6.54
1.500	7.13
1.625	7.71
1.750	8.30
1.875	8.89
2.000	9.48
2.125	10.04
2.250	10.62
2.375	11.20
2.500	11.77
2.625	12.34
2.750	12.91
2.875	13.47
3.000	14.04
3.125	14.60
3.250	15.16
3.375	15.71
3.500	16.26
3.625	16.81
3.750	17.36
3.875	17.90
4.000	18.43
4.125	18.97
4.250	19.50
4.375	20.03
4.500	20.55
4.625	21.07
4.750	21.60
4.875	22.11
5.000	22.62
5.125	23.13
5.250	23.63
5.375	24.13
5.500	24.62
5.625	25.11
5.750	25.60
5.875	26.09
6.000	26.57



TYPICAL ULTRA DEK ROOFING SYSTEM (SEE ELEVATIONS FOR ROOFING SYSTEM BY STRUCTURE)	FIRE WALLS						GAUGE OF ROOF BEAM - 5 FEET O.C.		
	LOAD BEARING		NON-LOAD BEARING						
	18	16	20	18	16	16	14	12	
24" 26GA UD	2	1	1	1	1	1	1	1	
24" 26GA UD WITH EXTERNAL WIND CLAMPS	N/A	2	2	1	1	2	2	1	
24" 24GA UD	2	2	1	1	1	2	1	1	
24" 24GA UD WITH EXTERNAL WIND CLAMPS	N/A	2	2	1	1	2	2	1	
24" 22GA UD	2	2	2	1	1	2	2	1	
24" 22GA UD WITH EXTERNAL WIND CLAMPS	N/A	N/A	2	2	1	N/A	2	2	
18" 24GA UD	2	1	1	1	1	1	1	1	
18" 24GA UD WITH EXTERNAL WIND CLAMPS	N/A	2	2	1	1	2	2	1	
18" 22GA UD	2	2	2	1	1	2	1	1	
18" 22GA UD WITH EXTERNAL WIND CLAMPS	N/A	N/A	2	2	1	N/A	2	2	
12" 24GA UD	2	2	2	1	1	2	1	1	
12" 22GA UD	N/A	2	2	1	1	2	2	1	



MARKUPS

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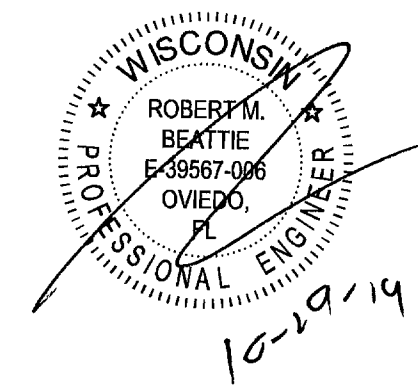
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ROOF PLAN

OWNER'S SIGNATURE

FINAL APPROVED DRAWINGS
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800/989-0220 CB C047783 Fax: 407/877-9065



ROBERT M. BEATTIE, PE
PROFESSIONAL ENGINEER
WISCONSIN
F-95567-006
10-19-14

DRAWN BY
JSV

CHECKED BY
JSV

DATE
10-10-14

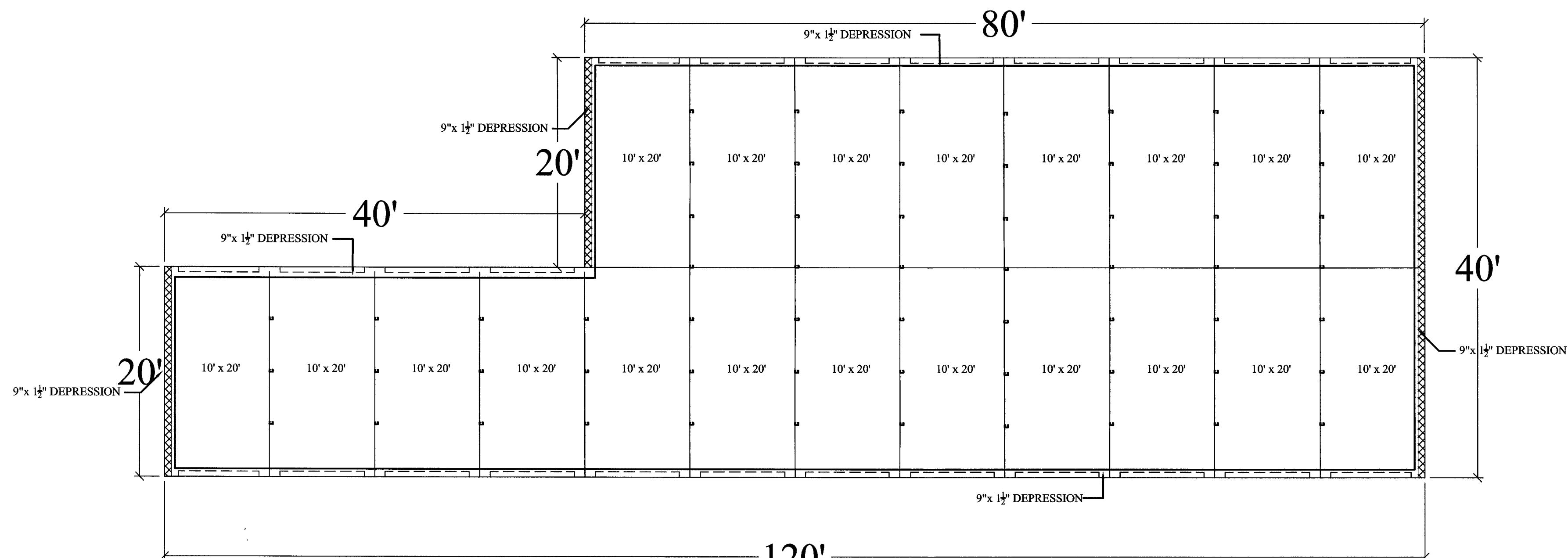
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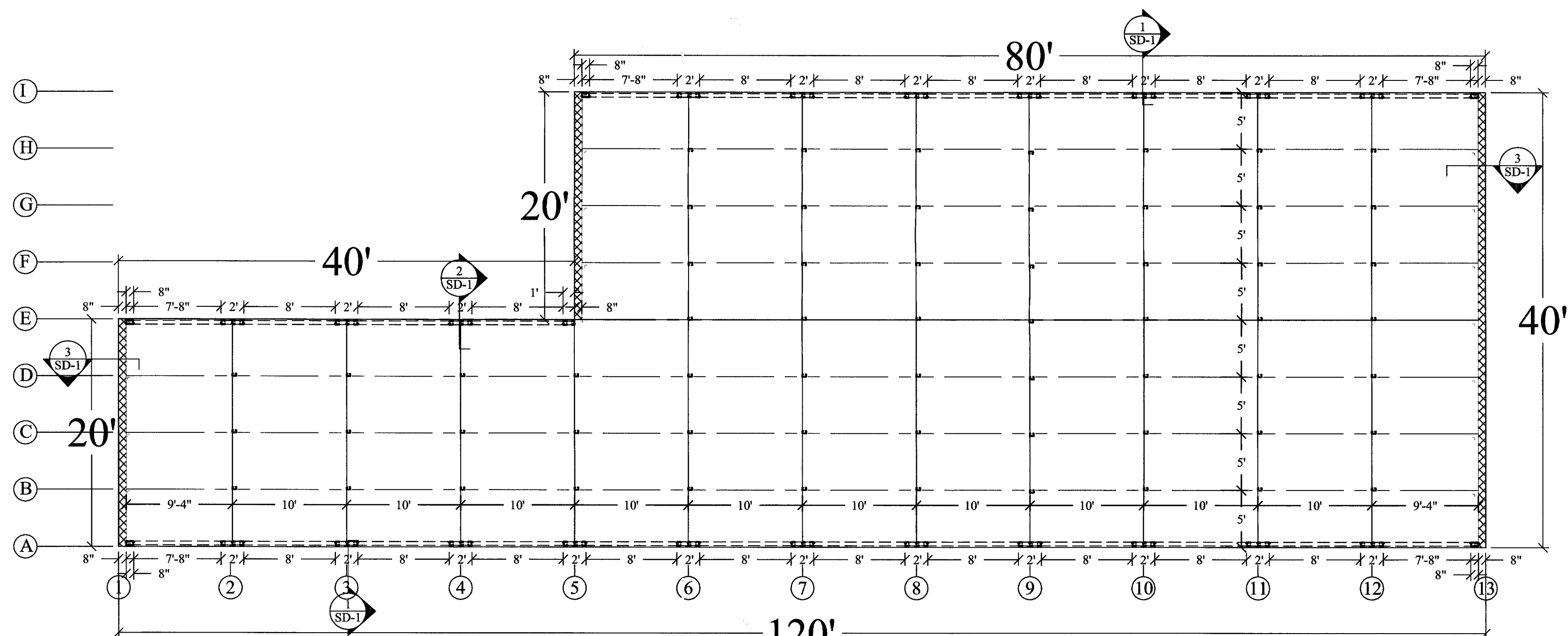
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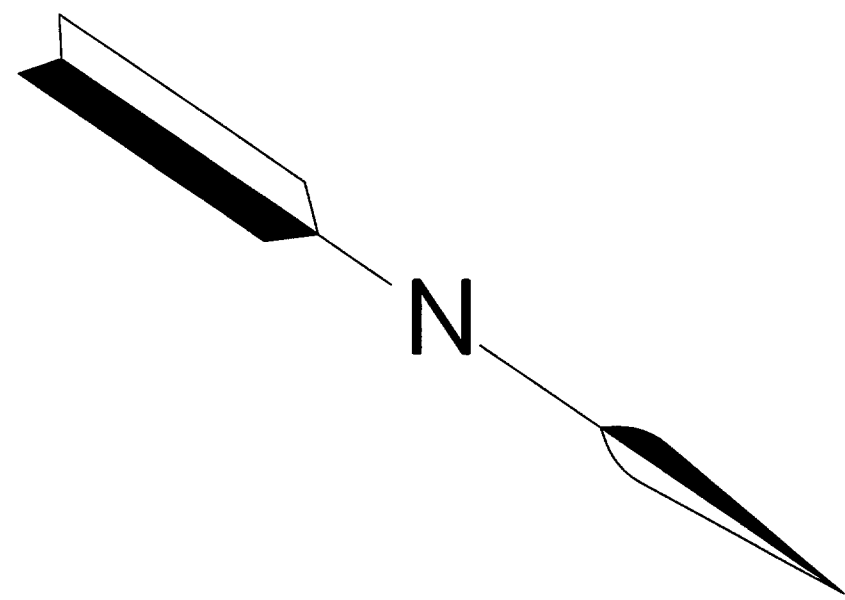


120'
STRUCTURE A UNIT MIX



120'
STRUCTURE A FRAMING PLAN

LINE KEY	
	HORIZONTAL PARTITION PANEL 29ga GALVALUME TYPE "U" 8'-6" FROM E.F.
	[1] RUN OF BURGLAR BARS ABOVE PARTITION PANEL 26ga VERTICAL PBR WALL PANEL AT PIER WRAP
	ZEE BEAMS
	COLUMNS
	CMU WALL BY CUSTOMER
TYPICAL COLUMNS & BEAMS UNLESS NOTED OTHERWISE	
COLUMN : 4C16 - 4" X 2 1/2" X 16ga CEE PRIME PAINTED	
PURLIN : 4Z16 - 4" X 2 1/2" X 16ga ZEE PRIME PAINTED	
L 4" X 2" X 16" X 12ga CLIP ANGLE ATTACHED TO MASONRY W/ (2) 1/2" X 3 3/4" EXPANSION BOLTS (2 1/2" MIN. EMBEDMENT) FOR ZEE BEAM ATTACHMENT - TYP.	
ANCHOR SCHEDULE UNLESS NOTED OTHERWISE	
<u>CLIP INSTALLATION</u> (1) - 1/2 DIA x 3 3/4 [2 1/4 EMBEDMENT MIN.] EXPANSION ANCHOR	
<u>INTERIOR BASE TRACK INSTALLATION</u> (1) - 1/2 DIA x 3 3/4 [2 1/4 EMBEDMENT MIN.] EXPANSION ANCHOR SPACING@3' O.C.	
<u>PERIMETER BASE TRACK INSTALLATION</u> (1) - 1/2 DIA x 3 3/4 [2 1/4 EMBEDMENT MIN.] EXPANSION ANCHOR SPACING@ 3' O.C.	
*BASE TRACKS ARE ORDERED NO PUNCH- ERECTION CREW TO DRILL HOLES FOR INSTALLATION (WHEN USING 3/8")	
<u>PIER INSTALLATION</u> (2) - 1/2 DIA x 3 3/4 [2 1/2 EMBEDMENT MIN.] EXPANSION ANCHOR AT EACH PIER	



MARKUPS		
#1	BY: JSV	DATE: 10-27-14
RED LINES		

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#	BY:	DATE:

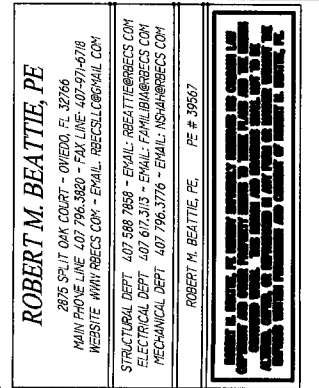
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UNIT MIX &
FRAMING PLAN

OWNER'S SIGNATURE

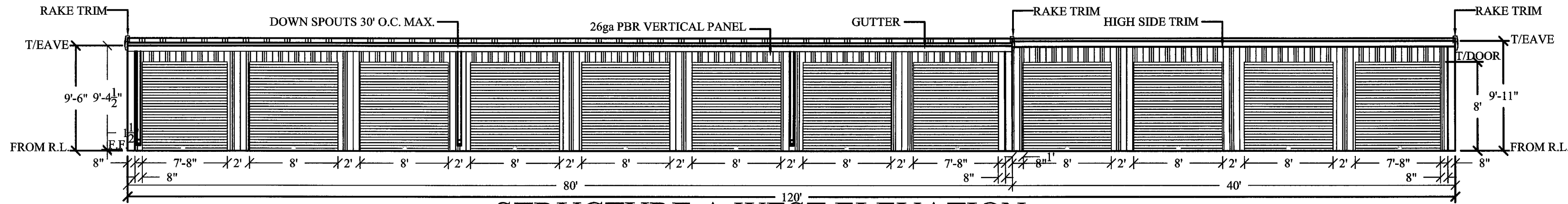
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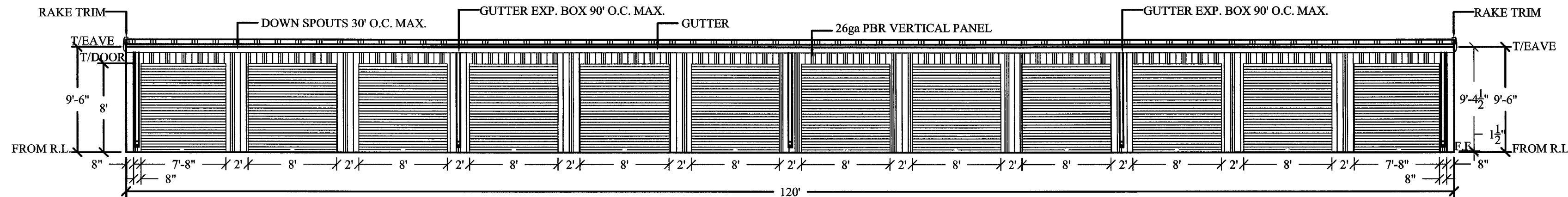


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CHECKED BY JSV	DATE 10-10-14
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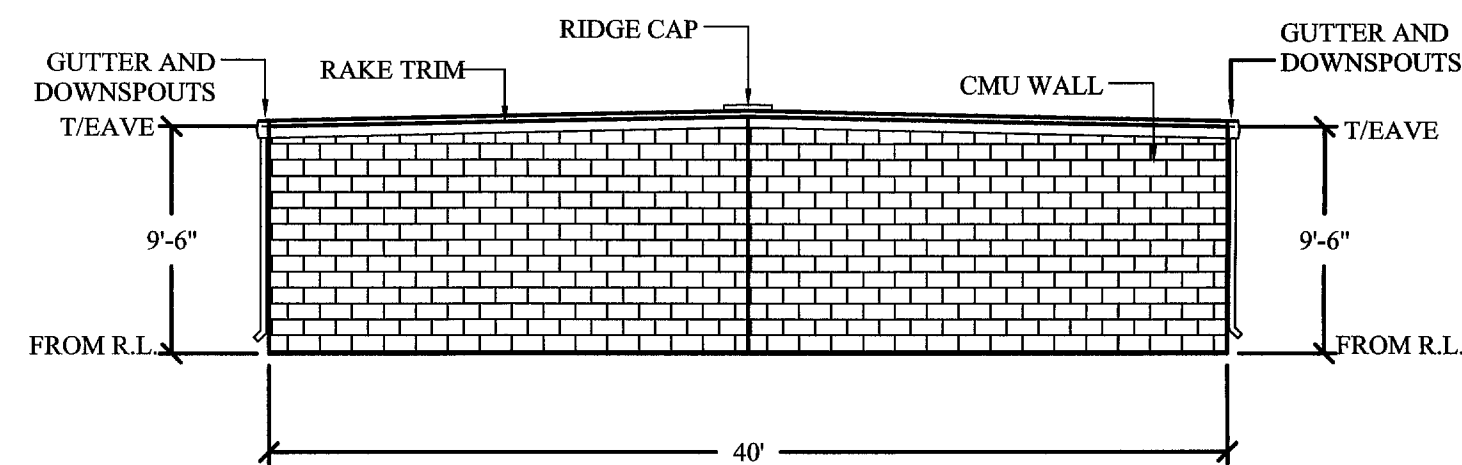
SHEET
S-1



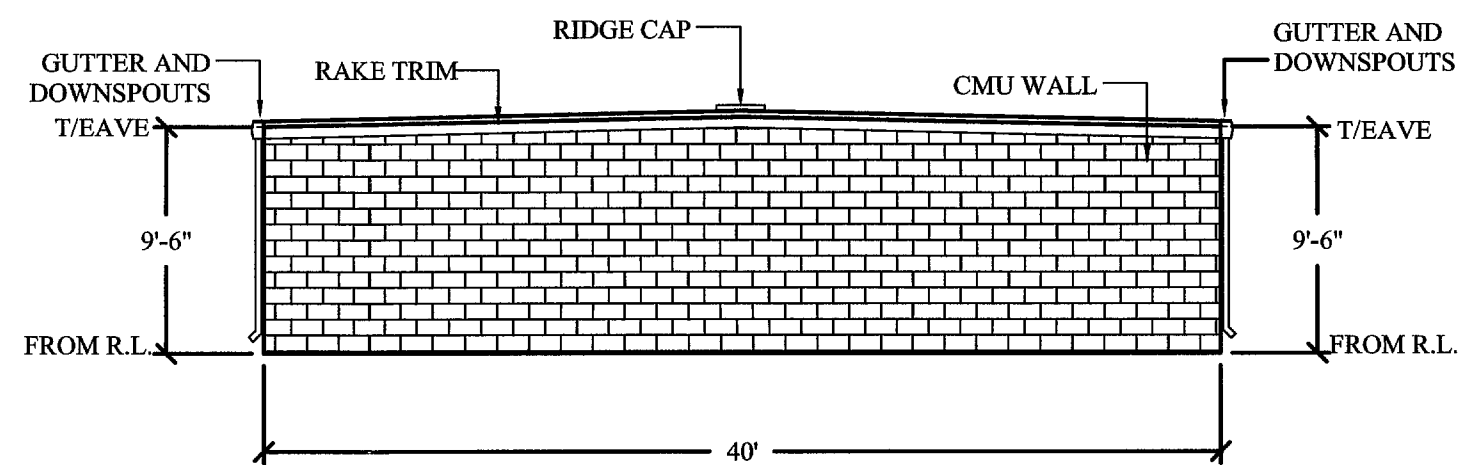
STRUCTURE A WEST ELEVATION



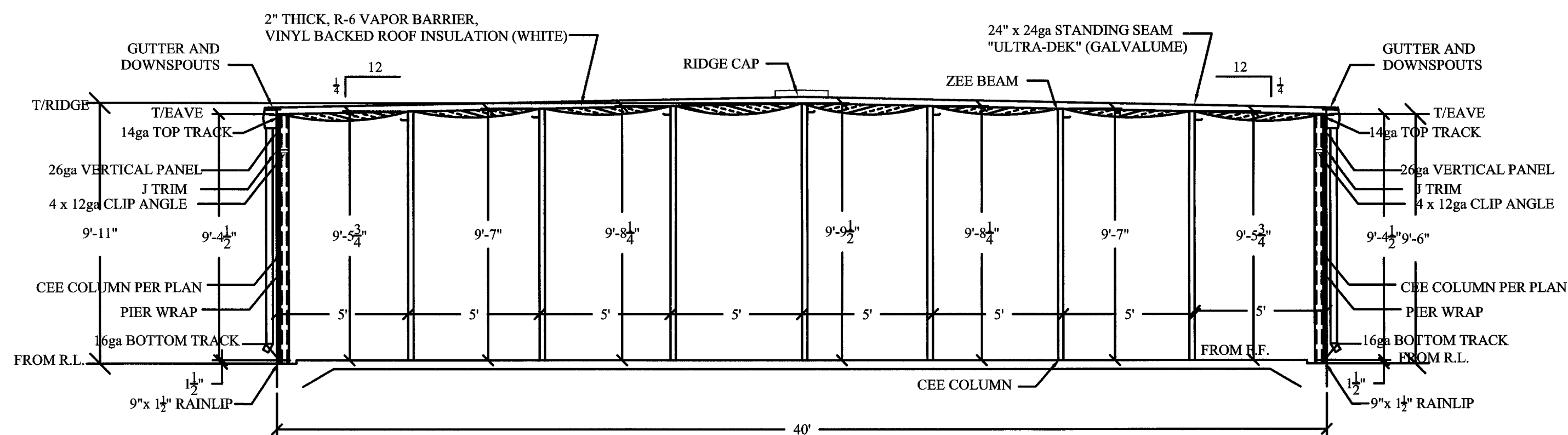
STRUCTURE A EAST ELEVATION



STRUCTURE A SOUTH ELEVATION



STRUCTURE A NORTH ELEVATION



SECTION A-A

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

MARKUPS
#1 BY: JSV DATE: 10-27-14
RED LINES

REVISIONS

BY: DATE:

METRO STORAGE
4059 W. BRADLEY RD.
BROWN DEER
WISCONSIN 53209

ELEVATIONS &
SECTION

OWNER'S SIGNATURE

FINAL APPROVED DRAWINGS
MANUFACTURING RELEASE

THE RABCO CORPORATION

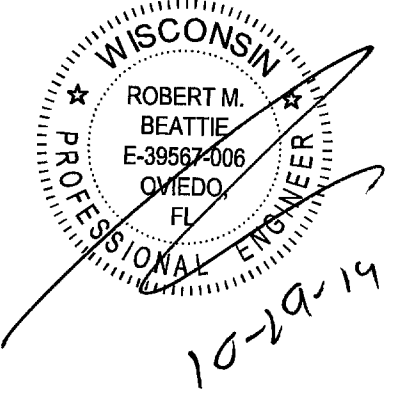
1041 CROWN PARK CIRCLE WINTER GARDEN, FL 34787
800/989-0220 CB C047783 Fax: 407/877-9065

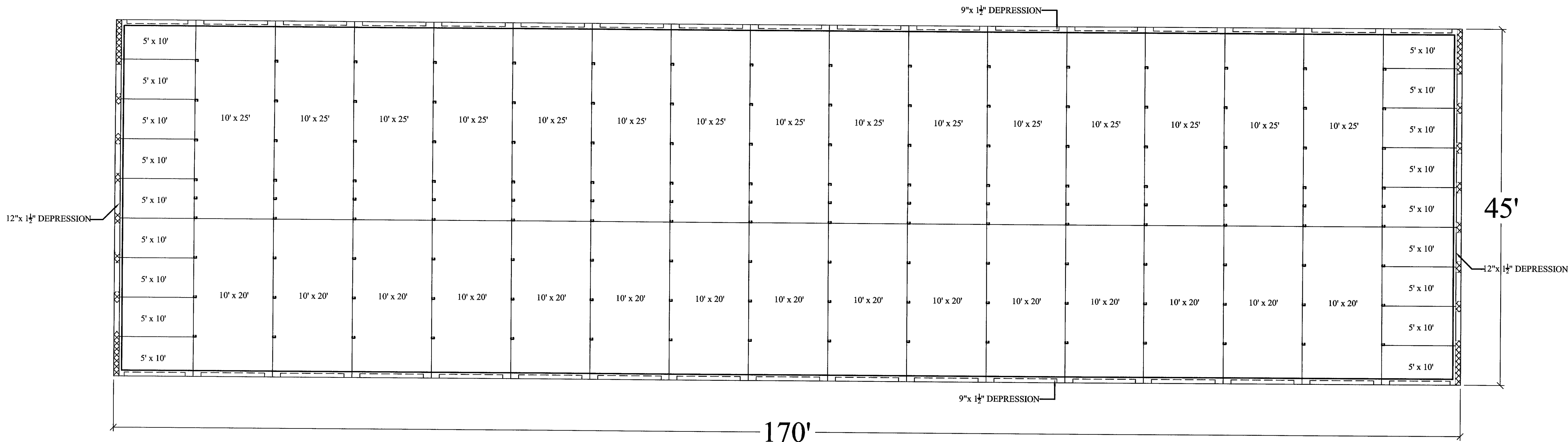


ROBERT M. BEATTIE, PE
PROFESSIONAL ENGINEER
WISCONSIN
E-38557-006
FL
1703
1703STR.dwg

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JOB NUMBER: 1703
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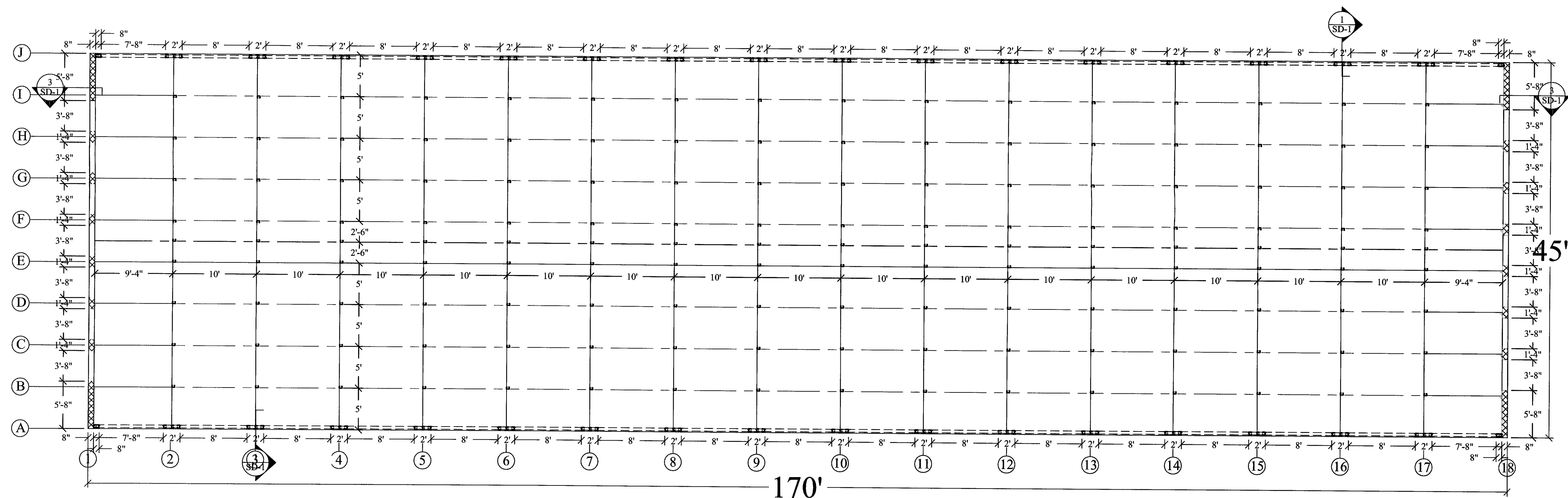
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S-1.1



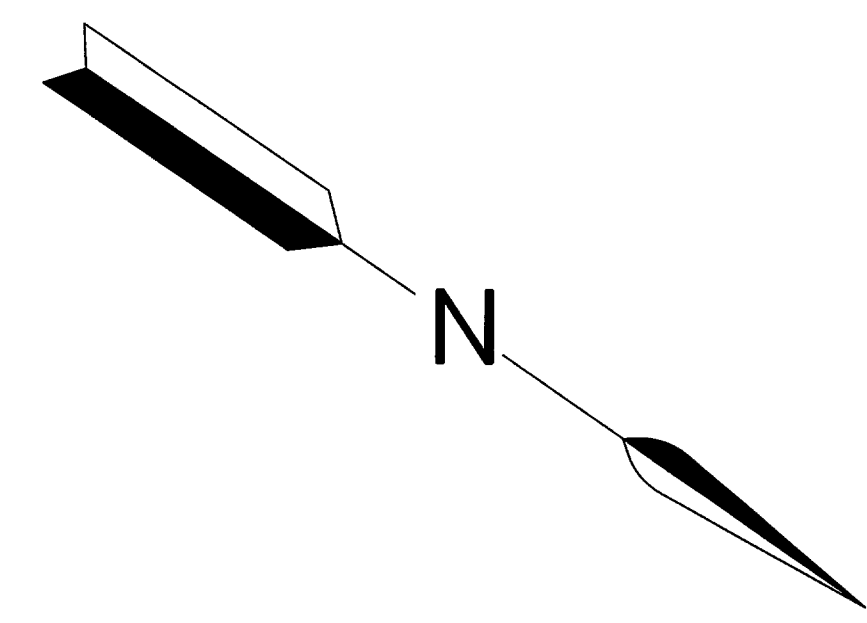


STRUCTURE B UNIT MIX

LINE KEY	
	HORIZONTAL PARTITION PANEL 29ga GALVALUME TYPE "U" 8'-6" FROM F.F.
	VERTICAL PARTITION PANEL 26ga VERTICAL PBR WALL PANEL AT PIER WRAP
	ZEE BEAMS
	COLUMNS
	CMU WALL BY CUSTOMER
TYPICAL COLUMNS & BEAMS UNLESS NOTED OTHERWISE	
COLUMN : 4C16 - 4" X 2 1/2" X 16ga CEE PRIME PAINTED	
PURLIN : 4Z16 - 4" X 2 1/2" X 16ga ZEE PRIME PAINTED	
	L 4" X 2" X 16" X 12ga CLIP ANGLE ATTACHED TO MASONRY W/ (2) 1/2" X 3/4" EXPANSION BOLTS (2 1/2" MIN. EMBEDMENT) FOR ZEE BEAM ATTACHMENT - TYP.
ANCHOR SCHEDULE UNLESS NOTED OTHERWISE	
CLIP INSTALLATION (1) - 1/2 DIA x 3 3/4 [2 1/4 EMBEDMENT MIN.] EXPANSION ANCHOR	
INTERIOR BASE TRACK INSTALLATION (1) - 1/2 DIA x 3 3/4 [2 1/4 EMBEDMENT MIN.] EXPANSION ANCHOR SPACING@3' O.C.	
PERIMETER BASE TRACK INSTALLATION (1) - 1/2 DIA x 3 3/4 [2 1/4 EMBEDMENT MIN.] EXPANSION ANCHOR SPACING@3' O.C.	
<small>*BASE TRACKS ARE ORDERED NO PUNCH - ERECTION CREW TO DRILL HOLES FOR INSTALLATION (WHEN USING 3/8")</small>	
PIER INSTALLATION (2) - 1/2 DIA x 3 3/4 [2 1/2 EMBEDMENT MIN.] EXPANSION ANCHOR AT EACH PIER	



STRUCTURE B FRAMING PLAN



MARKUPS	
BY: JSV	DATE: 10-27-14
RED LINES	

REVISIONS	
BY:	DATE:

METRO STORAGE
4059 W. BRADLEY RD.
BROWN DEER
WISCONSIN 53209

UNIT MIX &
FRAMING PLAN

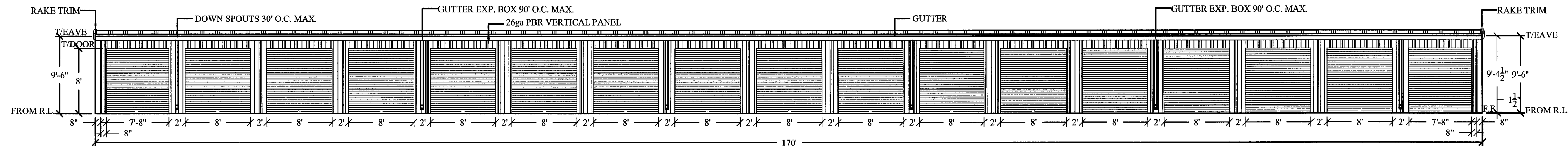
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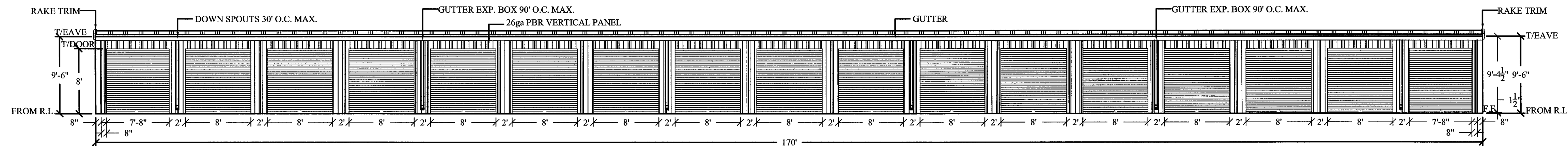


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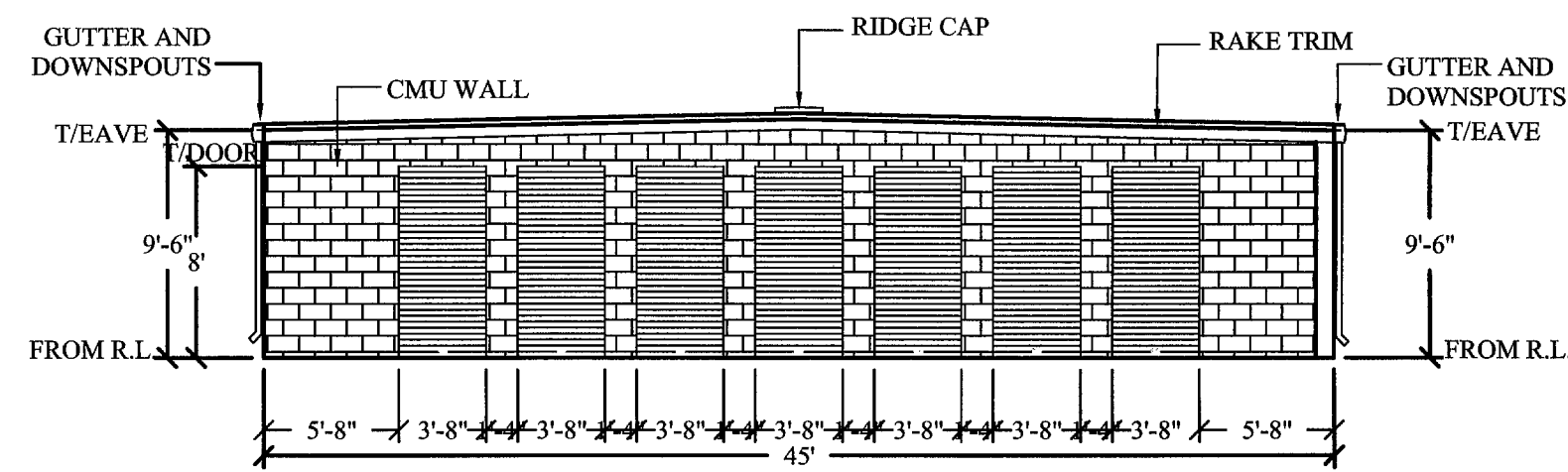
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SCALE 1/8" = 1'	
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FILE NAME 1703STR.dwg	
SHEET S-2	



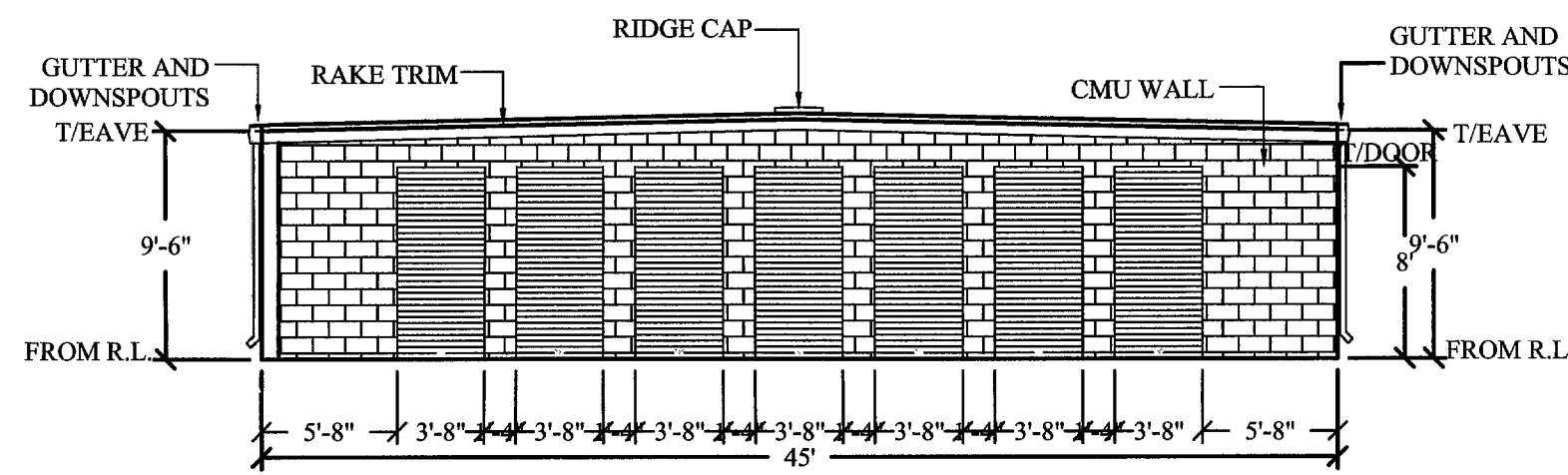
STRUCTURE B WEST ELEVATION



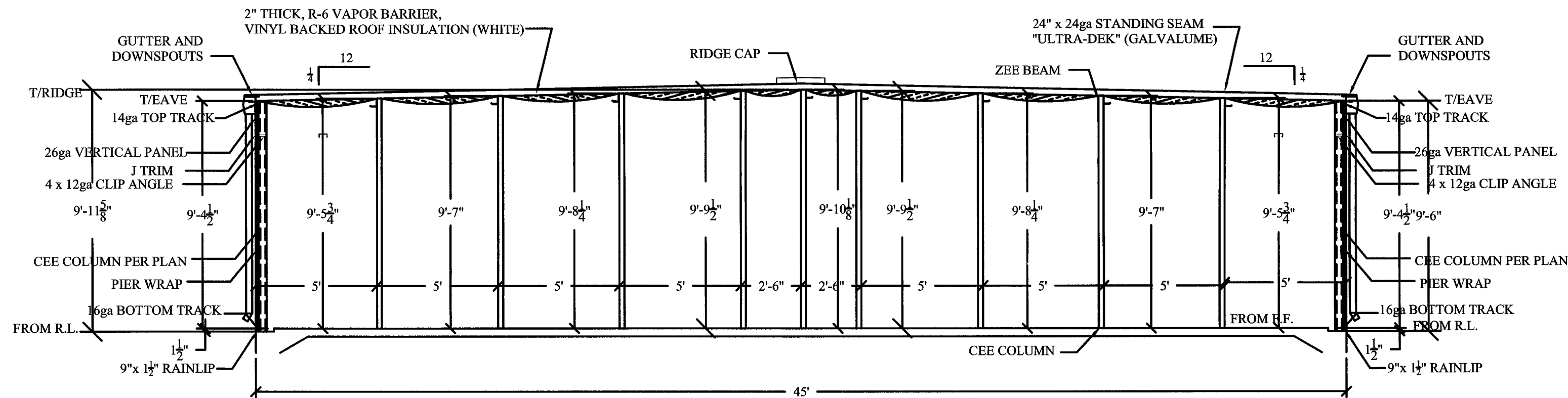
STRUCTURE B EAST ELEVATION



STRUCTURE B SOUTH ELEVATION



STRUCTURE B NORTH ELEVATION



SECTION B-B

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

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RED LINES	

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Δ	BY: DATE:

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BROWN DEER
WISCONSIN 53209

ELEVATIONS &
SECTION

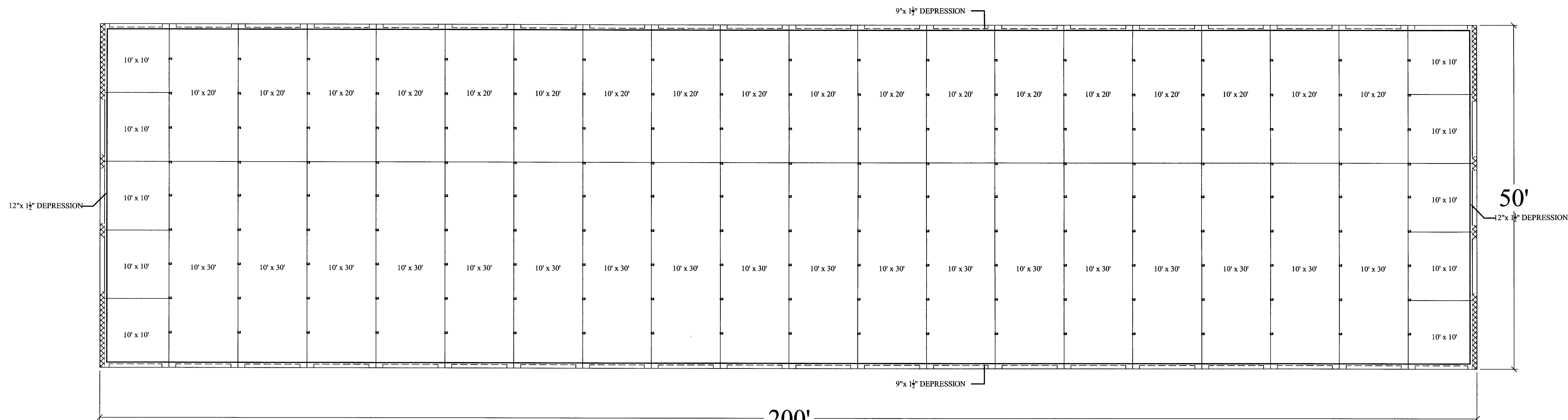
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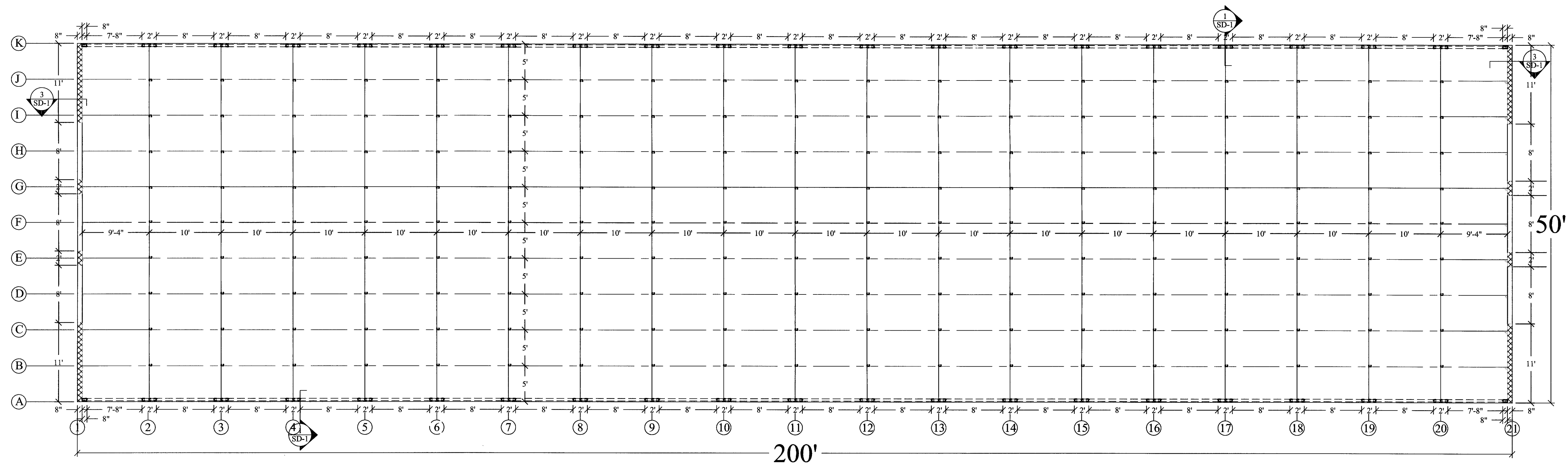


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10-10-14

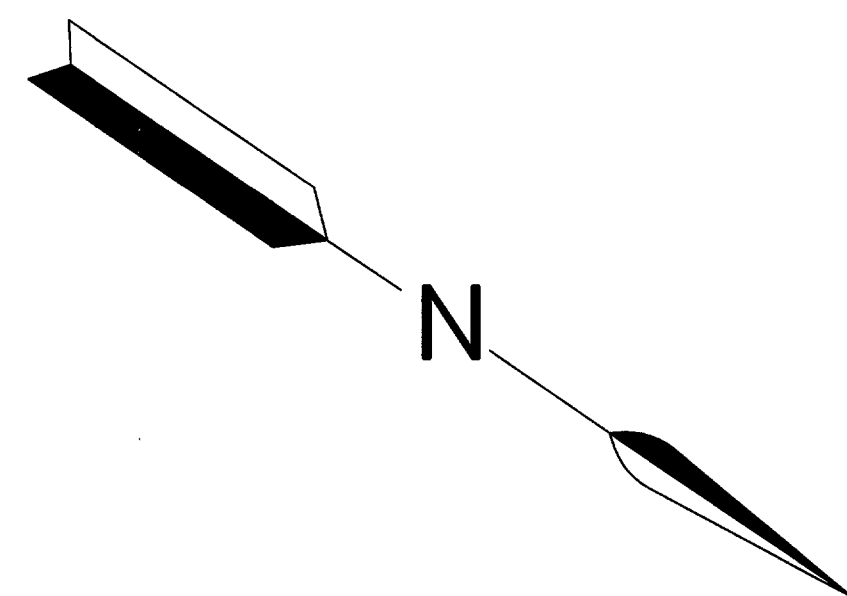
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CHECKED BY	DATE
JSV	10-10-14
SCALE	1/8"=1'
JOB NUMBER	1703
FILE NAME	1703STR.dwg
SHEET	S-2.1



STRUCTURE C UNIT MIX



STRUCTURE C FRAMING PLAN



LINE KEY	
	HORIZONTAL PARTITION PANEL 29ga GAL VALUME TYPE "U" 8'-6" FROM F.F. [1] RUN OF BURGLAR BARS ABOVE PARTITION PANEL 26ga VERTICAL PBR WALL PANEL AT PIER WRAP
	ZEE BEAMS
	COLUMNS
	CMU WALL BY CUSTOMER
TYPICAL COLUMNS & BEAMS UNLESS NOTED OTHERWISE	
COLUMN : 4C16 - 4" X 2 1/2" X 16ga CEE PRIME PAINTED	
PURLIN : 4Z16 - 4" X 2 1/2" X 16ga ZEE PRIME PAINTED	
	L 4" X 2" X 16" X 12ga CLIP ANGLE ATTACHED TO MASONRY W/ (2) 1/2" X 3 3/4" EXPANSION BOLTS (2 1/2" MIN. EMBEDMENT) FOR ZEE BEAM ATTACHMENT - TYP.

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE	
<u>CLIP INSTALLATION</u> (1) - 1/2 DIA x 3 3/4 [2 1/4 EMBEDMENT MIN.] EXPANSION ANCHOR	
<u>INTERIOR BASE TRACK INSTALLATION</u> (1) - 1/2 DIA x 3 3/4 [2 1/4 EMBEDMENT MIN.] EXPANSION ANCHOR SPACING@3' O.C.	
<u>PERIMETER BASE TRACK INSTALLATION</u> (1) - 1/2 DIA x 3 3/4 [2 1/4 EMBEDMENT MIN.] EXPANSION ANCHOR SPACING@ 3' O.C.	
*BASE TRACKS ARE ORDERED NO PUNCH - ERECTION CREW TO DRILL HOLES FOR INSTALLATION (WHEN USING 3/8")	
<u>PIER INSTALLATION</u> (2) - 1/2 DIA x 3 3/4 [2 1/2 EMBEDMENT MIN.] EXPANSION ANCHOR AT EACH PIER	

SCOPE OF WORK OF SELLER/SUBCONTRACTOR IS INDICATED IN THE CONTRACT. THE DRAWINGS REFLECT SCOPES OF WORK AS REQUIRED FOR PERMITTING OR AT THE DIRECTION OF OWNER / CONTRACTOR. IN THE EVENT OF A DISCREPANCY BETWEEN THE CONTRACT AND DRAWINGS, THE TERMS OF THE CONTRACT WILL GOVERN.

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RED LINES		

REVISIONS		
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METRO STORAGE
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WISCONSIN 53209

UNIT MIX &
FRAMING PLAN

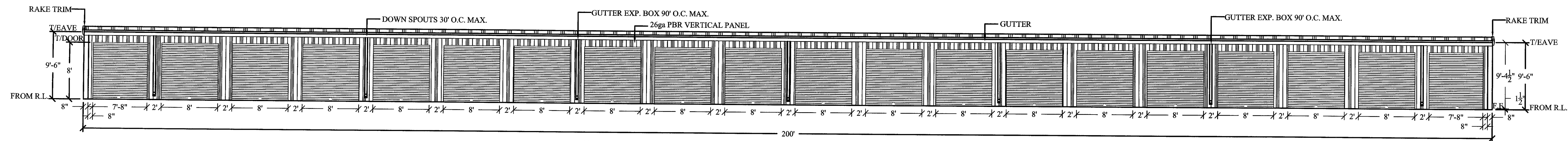
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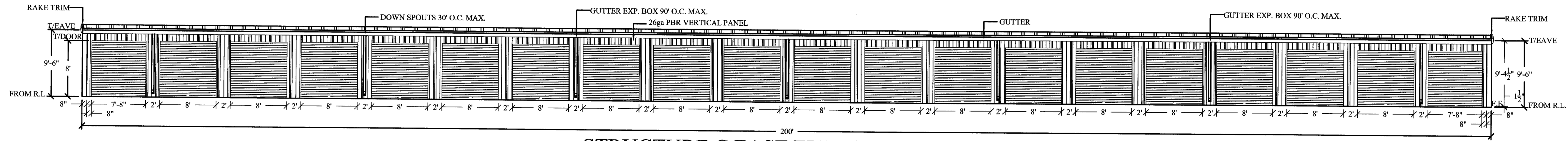


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E-26667-006
OVIDO, FL
10-29-14

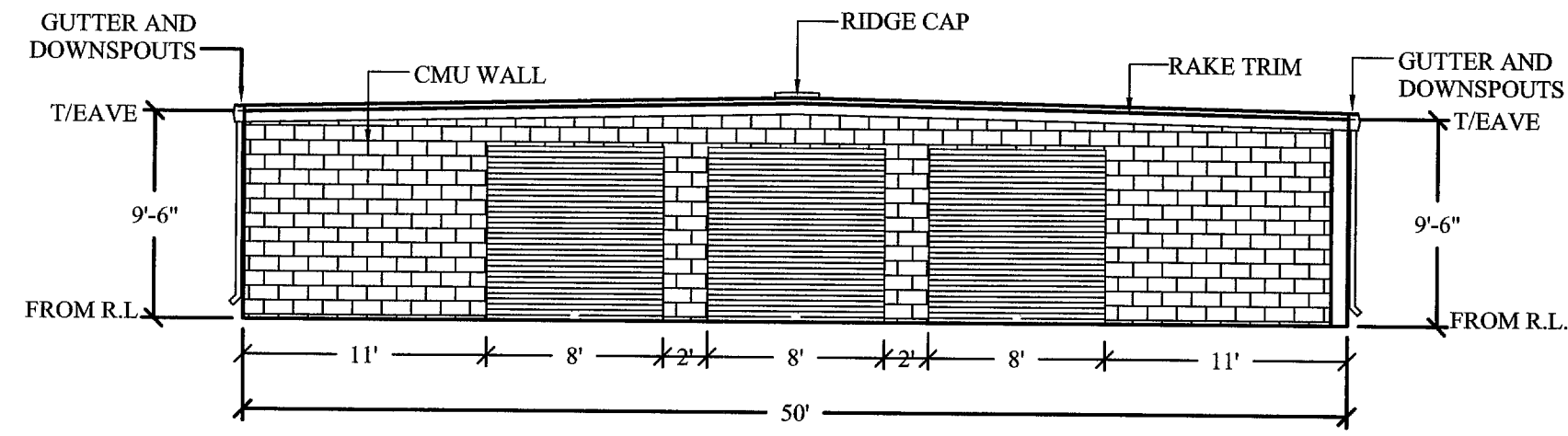
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FILE NAME 1703STR.dwg	
SHEET S-3	



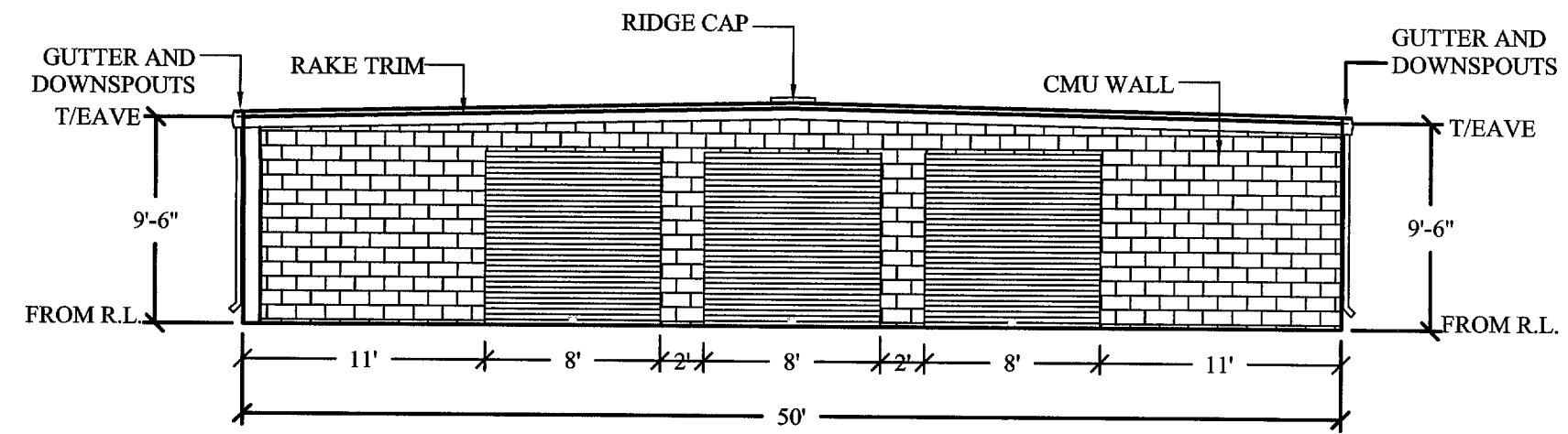
STRUCTURE C WEST ELEVATION



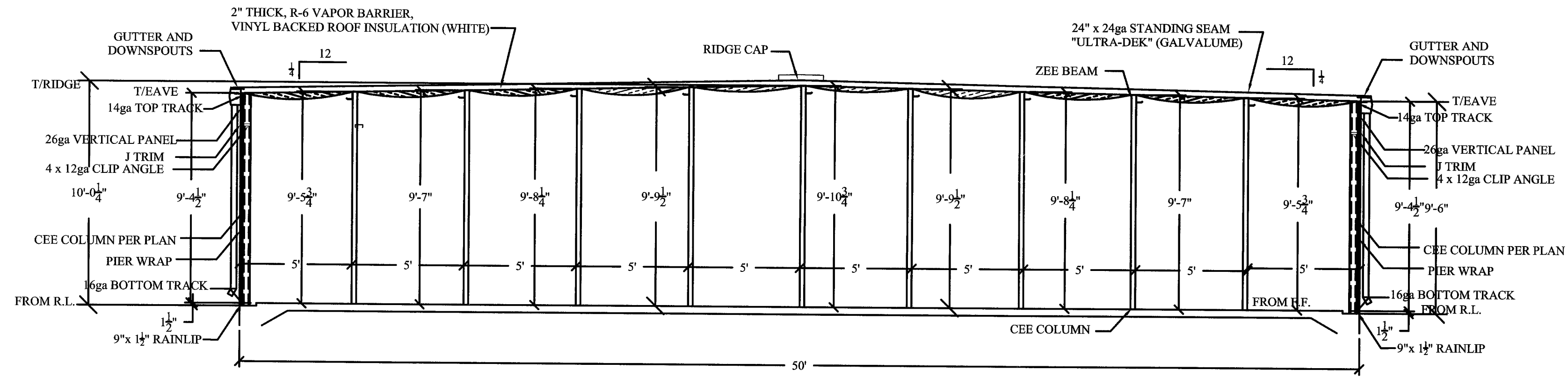
STRUCTURE C EAST ELEVATION



STRUCTURE C SOUTH ELEVATION



STRUCTURE C NORTH ELEVATION



SECTION C-C

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

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RED LINES		

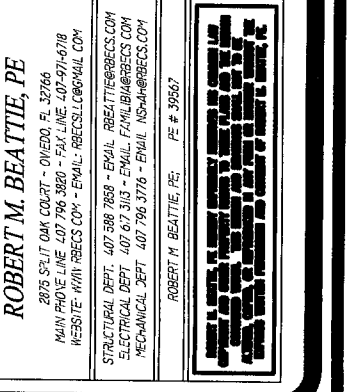
REVISIONS		
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BROWN DEER
WISCONSIN 53209

ELEVATIONS &
SECTION

OWNERS SIGNATURE
FINAL APPROVED DRAWINGS
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10-19-14

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JSV	10-10-14
SCALE	1/8" = 1'
JOB NUMBER	1703
FILE NAME	1703STR.dwg
SHEET	S-3.1

1" TO EACH SIDE OF ROOF SEAM AND OVER MINOR RIBS

1/4-14 x 7/8 ULTIMATE LAP TEK W/ SEALING WASHER

TRI BEAD TAPE SEALER

1/4-14 x 1 1/4" ULTIMATE TEK

HIGH SIDE TRIM

14x7/8 LAP TEK (PAINTED)

SEE ENLARGED VIEW BELOW

METAL OUTSIDE CLOSURE

12-3/4" TEK FOR RETAINER ANGLE BEHIND THE CLOSURE AND PLACED AT TRAPEZOID

3" STANDING SEAM ROOF PANELS

RETAINER ANGLE

14ga TOP TRACK

L 4x12 GA. CLIP ANGLE

J TRIM

CEE COLUMN

TRIM WRAP

REFERENCE ANCHOR SCHEDULE

16ga GALV. BOTTOM TRACK

1 1/2" RAINLIP

ANCHOR CEE COLUMN TO TRACK W/ (1) 12x 3/4" TEK

BASE TRIM

1/4-14x1 1/4 ULTIMATE FASTENER TX3
AT 24" O. C.

1 X 1 ANGLE
RAKE TRIM

RAKE SUPPORT
L3x2-1/2x14 GA. CONT.
ATTACH TO PURLIN EXTENSION
W/ (1) 1/4-14 X1 1/4 SHOULDER TEK
FASTENER #T5

POUR BOND BEAM 2" BELOW ROOF LINE

#14-1 1/4" TAP CON W/ WASHER
ANCHOR AT 12" O.C.
#TC .5-1.25WP

CMU BOND BEAM BY OTHERS
(BOND BEAM TO BE CONT.
ALONG PERIMETER
OF CMU BLOCK WALL).

1/2" X 3 3/4"
WEDGE ANCHORS
#WA .5-3.75

1'-0"

305"

PURLIN EXTENSION
1 1/2" X 1 1/2" X 12 GA. x 1'-6" ANGLE
ATTACHED W/ (4) 1/4-14x1 1/4" TEK FASTENER #T1B
TO ZEE BEAM

3" STANDING SEAM ROOF PANELS
GAUGE AND COLOR AS SPECIFIED
IN CONTRACT

ZEE BEAM PER PLAN

(1) 1/2"DIA.x 1" BOLT #8.5-1

2 X 4 X 12ga EXP. ANGLE

CMU WALL BY OTHERS

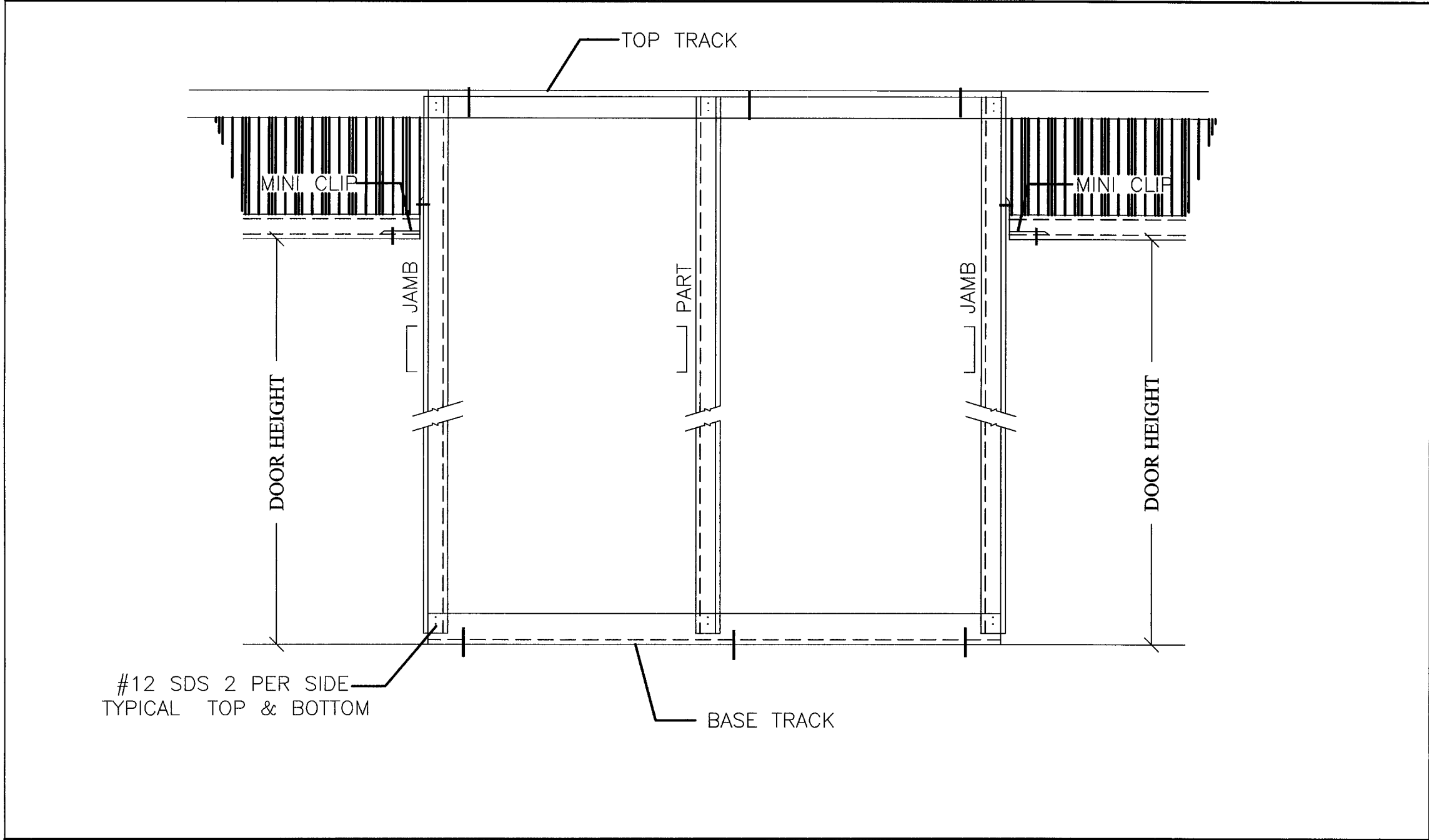
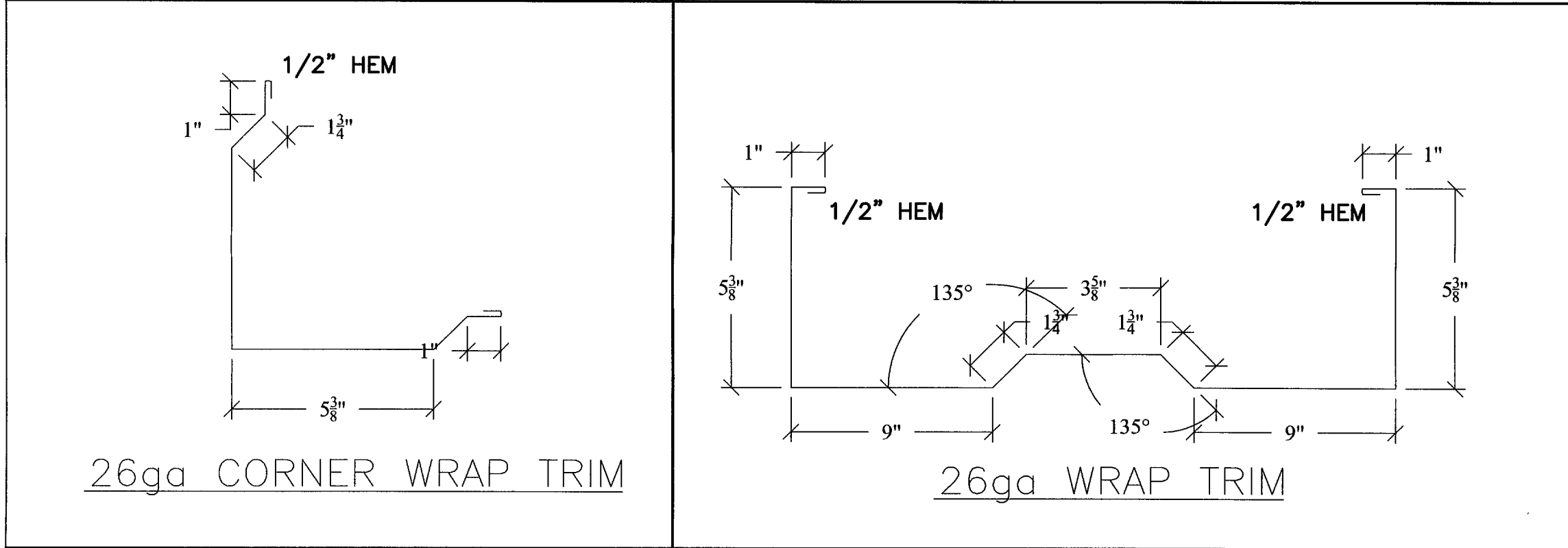
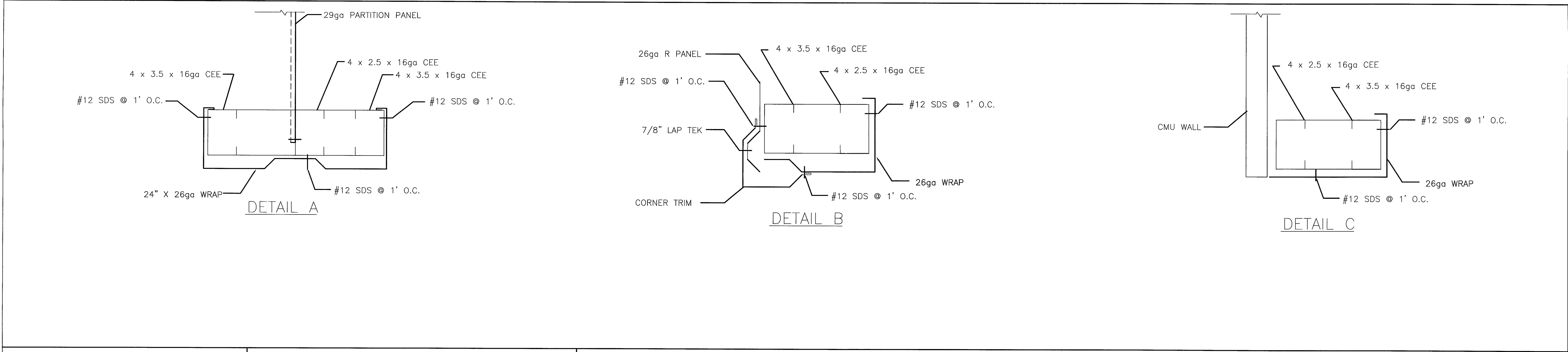
NOTE TO CONTRACTOR:
CMU BOND BEAM REQUIRED AT THIS LOCATION. BOND BEAM MUST BE FILLED
WITH CONCRETE, MORTAR IS NOT ACCEPTABLE. IF BOND BEAM IS NOT PRESENT
OR IS IMPROPERLY CONSTRUCTED THE METAL BUILDING COMPANY WILL NOT BE
RESPONSIBLE FOR COSTS INCURRED BY USING ANOTHER ANCHOR SYSTEM OTHER
THAN WHAT IS SPECIFIED ON THIS DETAIL. CONTRACTOR IS ALSO RESPONSIBLE
FOR VERIFYING ALL MASONRY WALL HEIGHTS. THE METAL BUILDING COMPANY WILL
NOT BE RESPONSIBLE FOR COSTS INCURRED DUE TO INCORRECT MASONRY WALL
HEIGHTS OTHER THAN SPECIFIED ON OUR DRAWINGS.

Technical drawing of a window or door assembly, showing various components and labels:

- TRI BEAD TAPE SEALER
- OUTSIDE METAL CLOSURE
- STANDING SEAM ROOF
- TRI BEAD TAPE SEALER
- HIGHSIDE TRIM
- 26ga X 1.25" R PANEL
- J TRIM
- TRIM WRAP
- 14ga TOP TRACK
- CEE COLUMN PER PLAN

Technical drawing showing a vertical panel connection to a slab and foundation. The drawing includes the following labels and dimensions:

- VERTICAL PANEL SHOWN
- 1 1/2"
- BASE TRIM
- 1 1/2"
- REFERENCE ANCHOR SCHEDULE
- 16ga GALV. BOTTOM TRACK
- ANCHOR CEE COLUMN TO TRACK W/ (1) 12x 3/4" TEK PER SIDE
- SLAB AND FOUNDATION BY OTHERS



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METRO STORAGE
4059 W. BRADLEY RD.
BROWN DEER
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STRUCTURAL
DETAILS

OWNERS SIGNATURE
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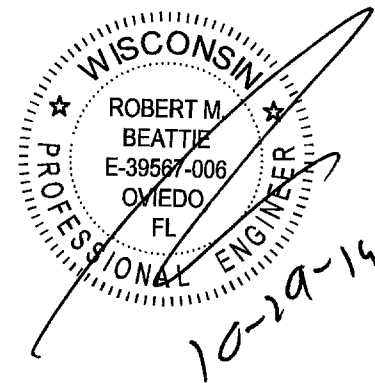
THE RABCO CORPORATION

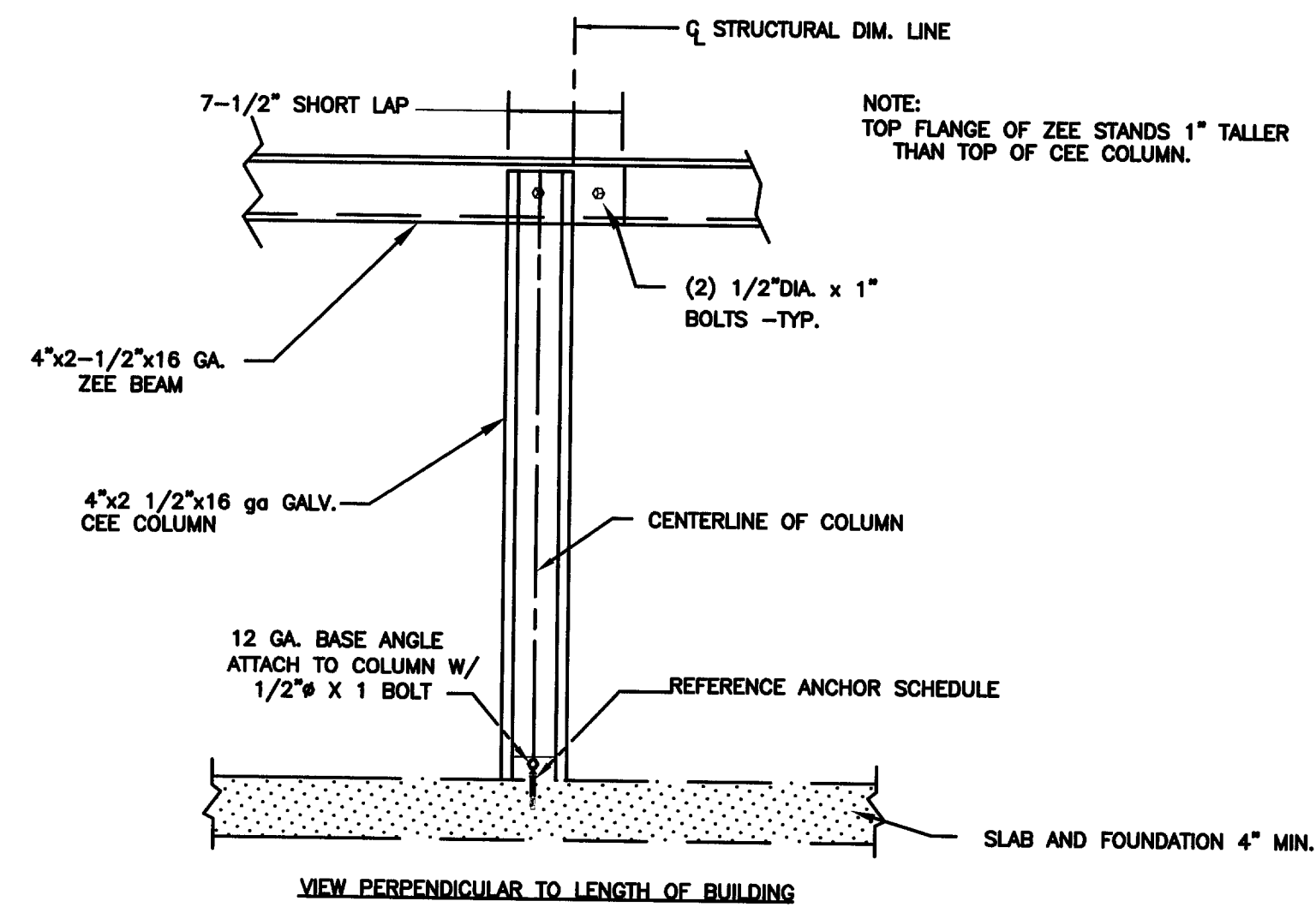
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ROBERT M. BEATTIE, PE
PROFESSIONAL ENGINEER
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E-39597-006
OWING, FL
1703
1703STR.dwg

10-10-14

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SHEET	SD-2

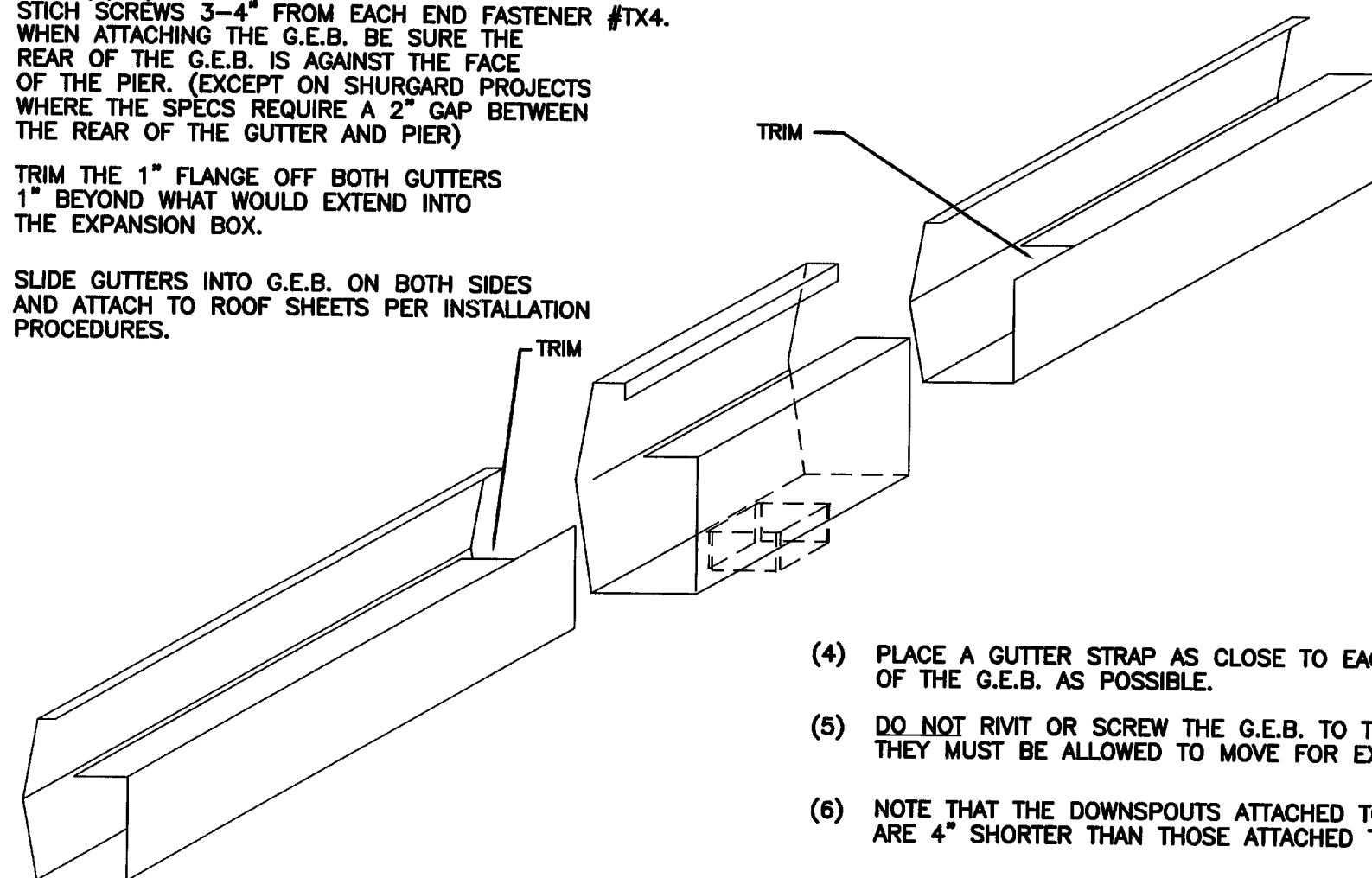




ZEE BEAM COLUMN CONNECTION

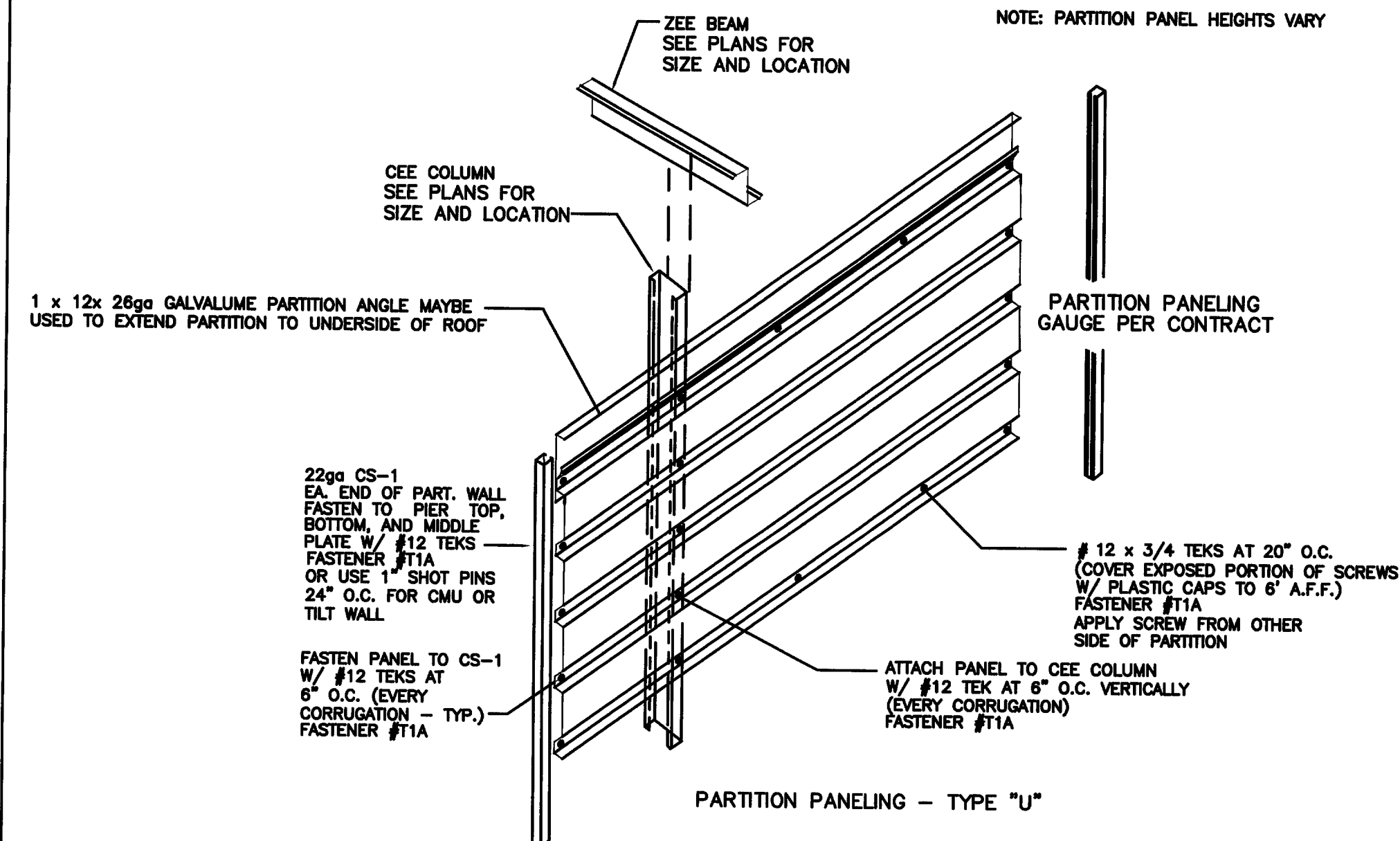
4" CEE COLUMN &
4" ZEE BEAM

- (1) APPLY TRI BEAD TAPE TO THE REAR FLANGE OF THE GUTTER EXPANSION BOX. CENTER THE G.E.B. ON THE PIER AND ATTACH REAR FLANGE TO THE ROOF PAN WITH (2) 1/4"-14X7/8 EXTENDED LIFE STITCH SCREWS 1" FROM EACH END. FASTENER #174. WHEN ATTACHING THE G.E.B. BE SURE THE REAR OF THE G.E.B. IS AGAINST THE FACE OF THE PIER. (EXCEPT ON SHURGRAD PROJECTS WHERE THE SPECS REQUIRE A 2" GAP BETWEEN THE REAR OF THE GUTTER AND PIER)
- (2) TRIM THE 1" FLANGE OFF BOTH GUTTERS 1" BEYOND WHAT WOULD EXTEND INTO THE EXPANSION BOX.
- (3) SLIDE GUTTERS INTO G.E.B. ON BOTH SIDES AND ATTACH TO ROOF SHEETS PER INSTALLATION PROCEDURES.

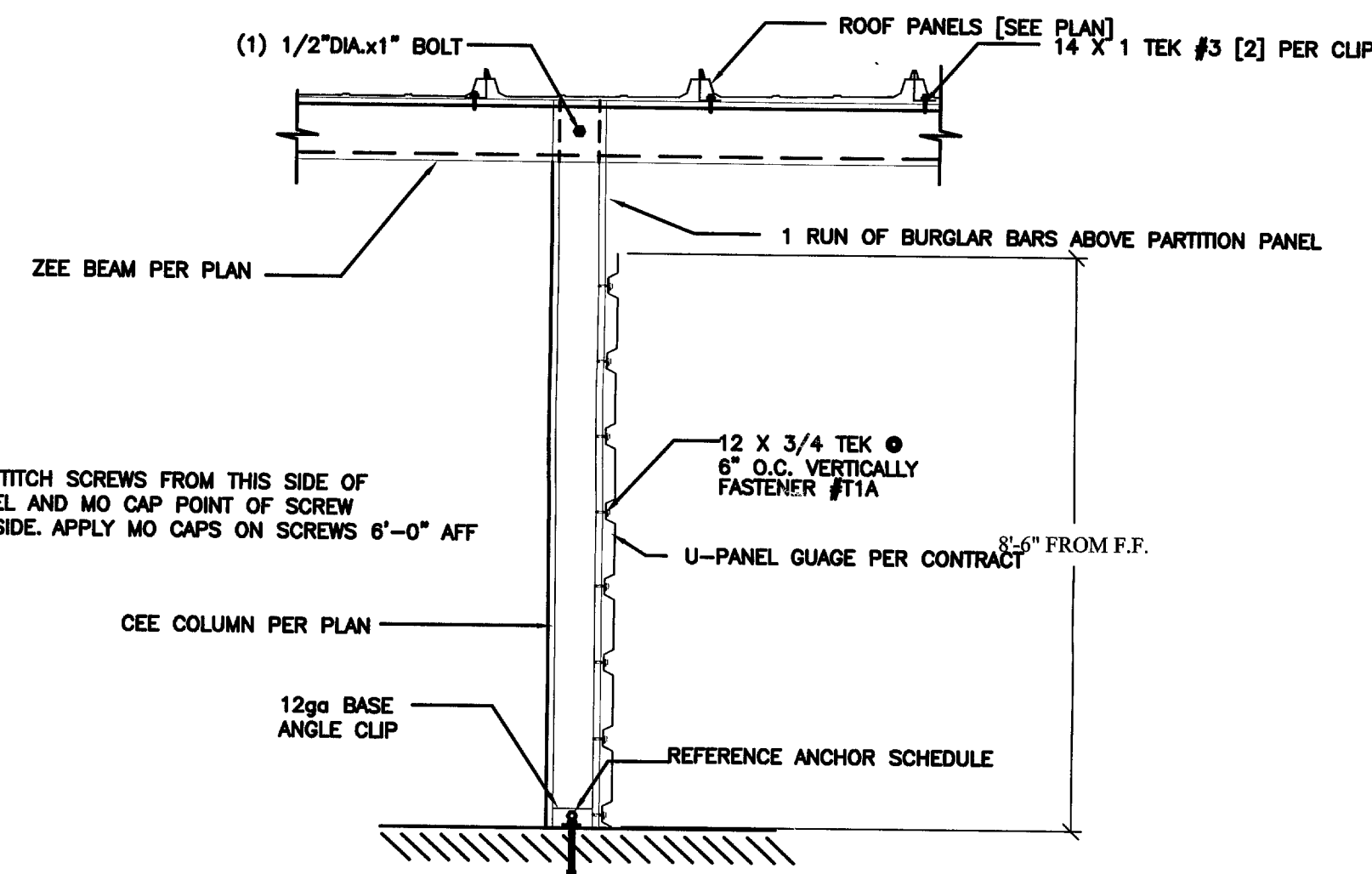


- (4) PLACE A GUTTER STRAP AS CLOSE TO EACH SIDE OF THE G.E.B. AS POSSIBLE.
- (5) DO NOT RIVET OR SCREW THE G.E.B. TO THE GUTTERS THEY MUST BE ALLOWED TO MOVE FOR EXPANSION.
- (6) NOTE THAT THE DOWNSPOUTS ATTACHED TO THE G.E.B. ARE 4" SHORTER THAN THOSE ATTACHED TO THE GUTTERS.
- (7) IN THE CASE WHERE SCUPPERS ARE REQUIRED, CUT OUT THE BOTTOM OF THE G.E.B. TO THE INSIDE DIMENSIONS OF THE SCUPPER. RIVET SCUPPER TO THE BOTTOM OF THE G.E.B.

GUTTER EXPANSION BOX INSTALLATION DETAIL

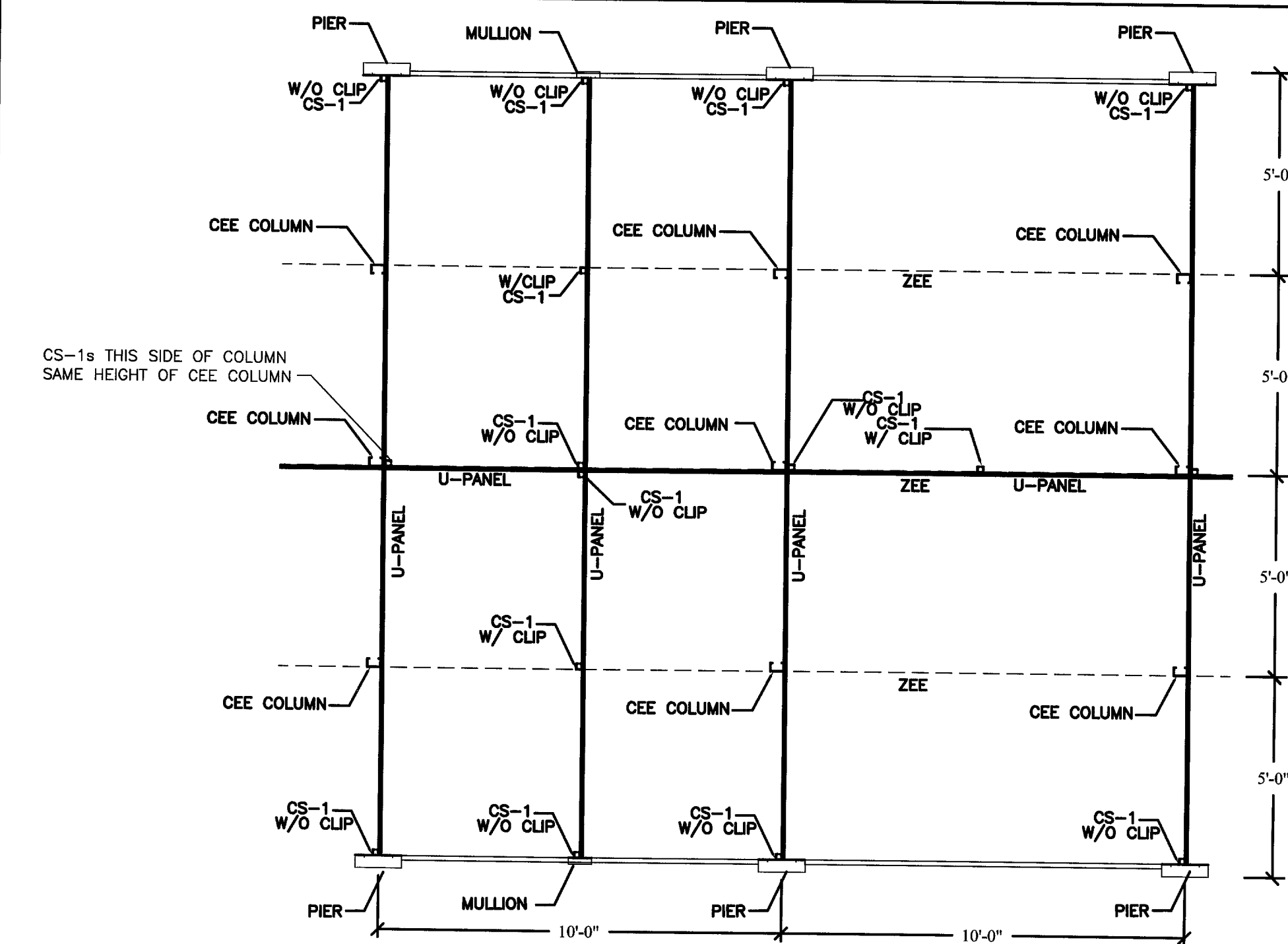


PARTITION WALL DETAIL

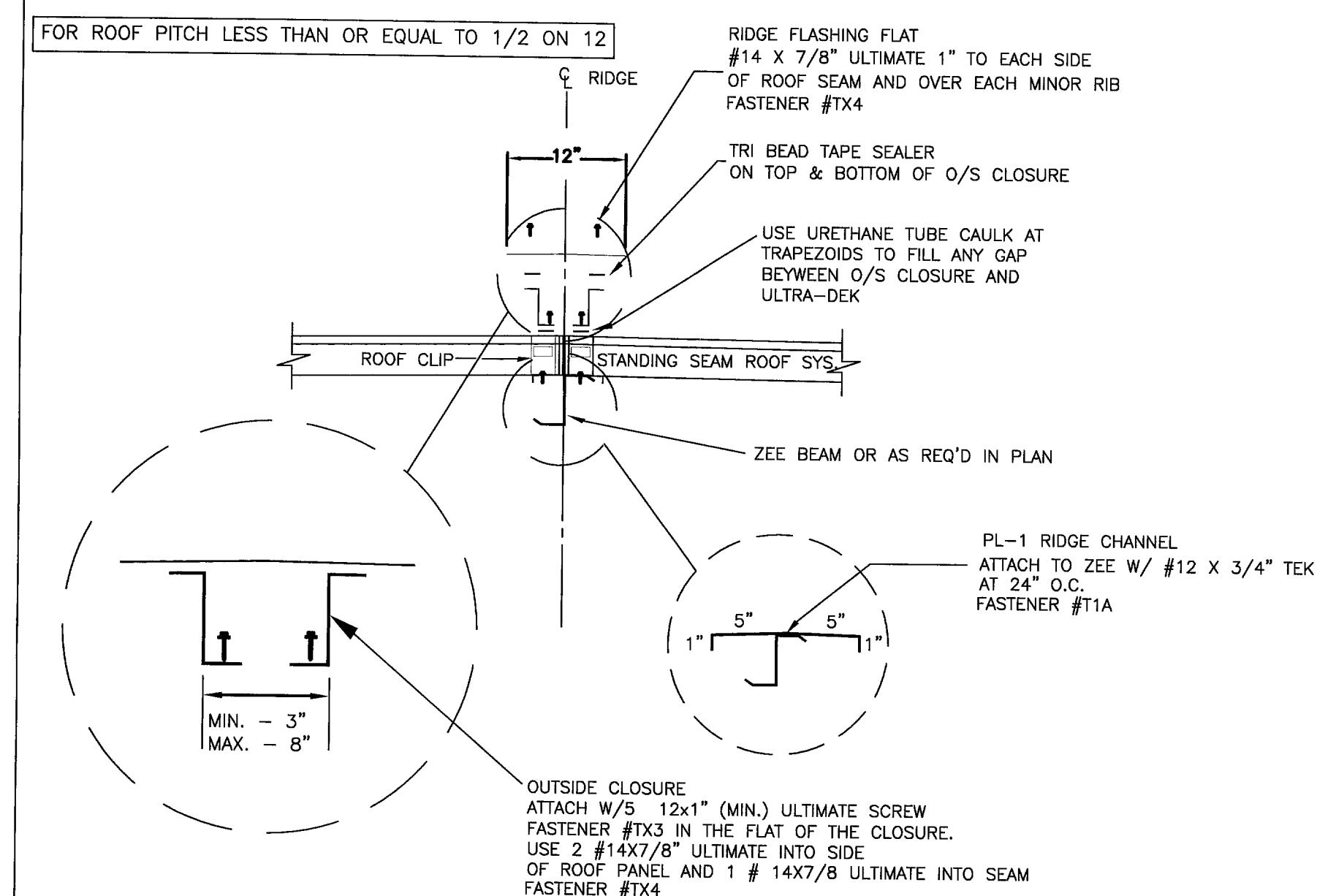


NOTE:—
THE PARTITION PANEL SHOULD BE
INSTALLED WITH THE PURLIN BEARING
LEG UPWARD.

PARTITION PANEL



GENERIC FRAMING FOR PARTITIONS WITH CROSS PARTITIONS



RIDGE SECTION

NOTE ON ROOF CLIPS:
UTILITY CLIP IS USED UP TO AND INCLUDING
3" OF INSULATION. LOW FIXED CLIP USED
W/ 4" INSULATION AND ABOVE.
ALL ROOF CLIPS FASTENERS: #14X1
FASTENER #T1B