

GENERAL

- THE INTENT OF THIS PROJECT IS TO STRENGTHEN EXISTING BUILDING FRAME COLUMNS THAT HAVE EXPERIENCED SECTION LOSS DUE TO CORROSION AS NOTED IN THESE PLANS. STRENGTHENING WILL BE DONE BY WELDING ON NEW STEEL PLATES TO THE EXISTING COLUMNS. DETERIORATION IS LOCATED AT THE BASE OF THE COLUMNS.

THE BASE OF THE EXISTING COLUMNS AND BASE PLATES WILL ALSO BE CLEANED AND PAINTED AS NOTED IN THESE PLANS.

DURING COLUMN STRENGTHENING OPERATIONS, THE EXISTING OVERHEAD HOIST SHALL NOT BE USED IN EITHER BAY ADJACENT TO THE FRAME THAT IS BEING STRENGTHENED. LOCATE HOIST A MINIMUM OF TWO BAYS AWAY DURING STRENGTHENING OPERATIONS.
- ALL ELEVATIONS REFERENCED TO FINISHED FIRST FLOOR (+0'-0").
- THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION.
- ALL OF THE WORK TO BE DONE UNDER THIS CONTRACT SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS, THE GENERAL REQUIREMENTS OF DIVISION ONE, THE GENERAL CONDITIONS, THE SPECIFICATIONS, AND ANY ADDENDA THERETO.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ACQUAINT THEMSELVES AND ALL SUPERVISORY PERSONNEL WITH THE ABOVE-NAMED DRAWINGS AND DOCUMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE SITE OF THE PROPOSED WORK TO SATISFY THEMSELVES AS TO THE EXISTING CONDITIONS RELATIVE TO THE CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TEMPORARY SHORING/BRACING OF COLUMNS, BEAMS, JOISTS, ETC., AS REQUIRED BY ALL FEDERAL, STATE AND LOCAL AGENCIES HAVING JURISDICTION, UNTIL ALL PERMANENT FRAMING IS INSTALLED.
- DRAWINGS OF THE EXISTING BUILDING ARE NOT AVAILABLE.
- UTILITY LOCATIONS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. SHOULD ANY UTILITIES BE FOUND DIFFERENT THAN LOCATED OR SHOWN ON THE DRAWINGS, THEY SHALL BE PROTECTED IN PLACE AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- ALL CONSTRUCTION SHALL CONFORM TO INTERNATIONAL BUILDING CODE 2012 UNLESS NOTED OTHERWISE.

DESIGN LOADS:

SNOW: SNOW DRIFT PER IBC 2012
Pg = 30 PSF
Pf = 21 PSF
Is = 1.00
Ce = 1.0
Ct = 1.0

WIND: ULTIMATE DESIGN WIND SPEED Vult (3-SECOND GUST) = 115 MPH
NOMINAL DESIGN WIND SPEED Vasd = 89 MPH
RISK CATEGORY II
EXPOSURE B
- IF CONFLICTS ARE FOUND BETWEEN DETAILS OR DIMENSIONS SHOWN ON STRUCTURAL PLANS AND THOSE SHOWN ON ARCHITECTURAL OR OTHER DISCIPLINES' PLANS, NOTIFY ARCHITECT AND ENGINEER IMMEDIATELY FOR CLARIFICATION PRIOR TO PERFORMING WORK.

STEEL

- STRUCTURAL STEEL TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH 'SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, CURRENT EDITION.'
- STEEL PLATES IN ACCORDANCE WITH ASTM A572 - GRADE 50.
- ALL WELD ELECTRODES E70 SERIES.
- ALL WELDING IN ACCORDANCE WITH AWS D1.1 CURRENT EDITION.
- ALL WELDING SHALL BE COMPLETED BY A CERTIFIED WELDER.
- ALL FULL PENETRATION WELDS SHALL BE MADE USING RUN OFF TABS WHICH SHALL BE REMOVED AND GROUND SMOOTH AFTER WELD IS COMPLETED.
- ALL WELD BACKUP BARS SHALL BE REMOVED AND GROUND SMOOTH AFTER WELDING IS COMPLETE.
- ANCHOR RODS - ASTM F 1554 (GRADE 36).
- NO HOLES ALLOWED IN BEAMS, JOISTS OR COLUMNS UNLESS SPECIFICALLY NOTED OR DETAILED ON STRUCTURAL DRAWINGS.

WELD INSPECTION

- CONTRACTOR SHALL PROVIDE THE FOLLOWING TESTING FOR ALL FIELD WELDS BY TESTING AGENCY OR QUALIFIED PERSONNEL:

ALL FULL PENETRATION WELDS SHALL BE INSPECTED USING EITHER RADIOGRAPH (RT) OR ULTRASONIC (UT) TESTING PROCEDURES.

ALL FILLET WELDS SHALL BE VISUALLY INSPECTED.

PAINT

- PAINT SHALL BE TNE MEC OR APPROVED EQUAL.
- PAINT SYSTEM SHALL CONSIST OF THE FOLLOWING:

COLOR - MATCH EXISTING COLUMN COLOR AS CLOSE AS POSSIBLE

PRIME COAT - TNE MEC OMNITHANE SERIES 1 AT 2 TO 3 MILS DRY FILM THICKNESS

INTERMEDIATE COAT - TNE MEC SERIES 66 HI-BUILD EPOXOLINE AT 4 TO 5 MILS DRY FILM THICKNESS

TOP COAT - TNE MEC SERIES 66 HI-BUILD EPOXOLINE AT 4 TO 5 MILS DRY FILM THICKNESS
- SURFACE PREPARATION - SSPC SP 3 HAND TOOL CLEAN.
- ALL PRIME AND INTERMEDIATE COATS SHALL BE BRUSHED INTO ALL CRACKS, CREVICES, AROUND BOLTS AND INTO GAPS BETWEEN THE STEEL BASE PLATE AND THE CONCRETE FOUNDATION.

DEMOLITION AND REMODELING

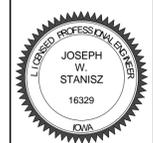
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO ENSURE THAT PARTS OF THE STRUCTURE TO BE PRESERVED ARE NOT DAMAGED BY THE APPLICATION OF EXCESSIVE LOADS OR BY ANY OTHER MEANS, AND THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE CAUSED.
- ENSURE SAFE PASSAGE OF PERSONS AROUND AREA OF DEMOLITION AND CONSTRUCTION. CONDUCT OPERATIONS TO PREVENT INJURY TO ADJACENT BUILDINGS, STRUCTURES, EQUIPMENT AND OTHER FACILITIES AND PERSONS.
- EXISTING STRUCTURE SHALL BE TEMPORARILY SHORED AS REQUIRED TO PERFORM CONSTRUCTION SHOWN HEREIN.
- IN THE EVENT OF CONFLICTS, NOTIFY ENGINEER PRIOR TO FIELD MODIFICATIONS OF DETAILS, CONNECTIONS, OR DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS.

NO SNOW SHALL BE ON THE ROOF DURING COLUMN REPAIRS.

DISTRICT: 06
COUNTY: DUBUQUE
PROJECT NUMBER: Project Number
DYERSVILLE MAINTENANCE GARAGE REPAIRS DYERSVILLE, IOWA
NOTES



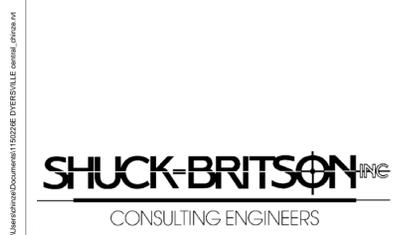
DATE: 12/24/2015
DRAWN BY: DESIGN TEAM
APPROVED:
REVISIONS:
SHEET OF
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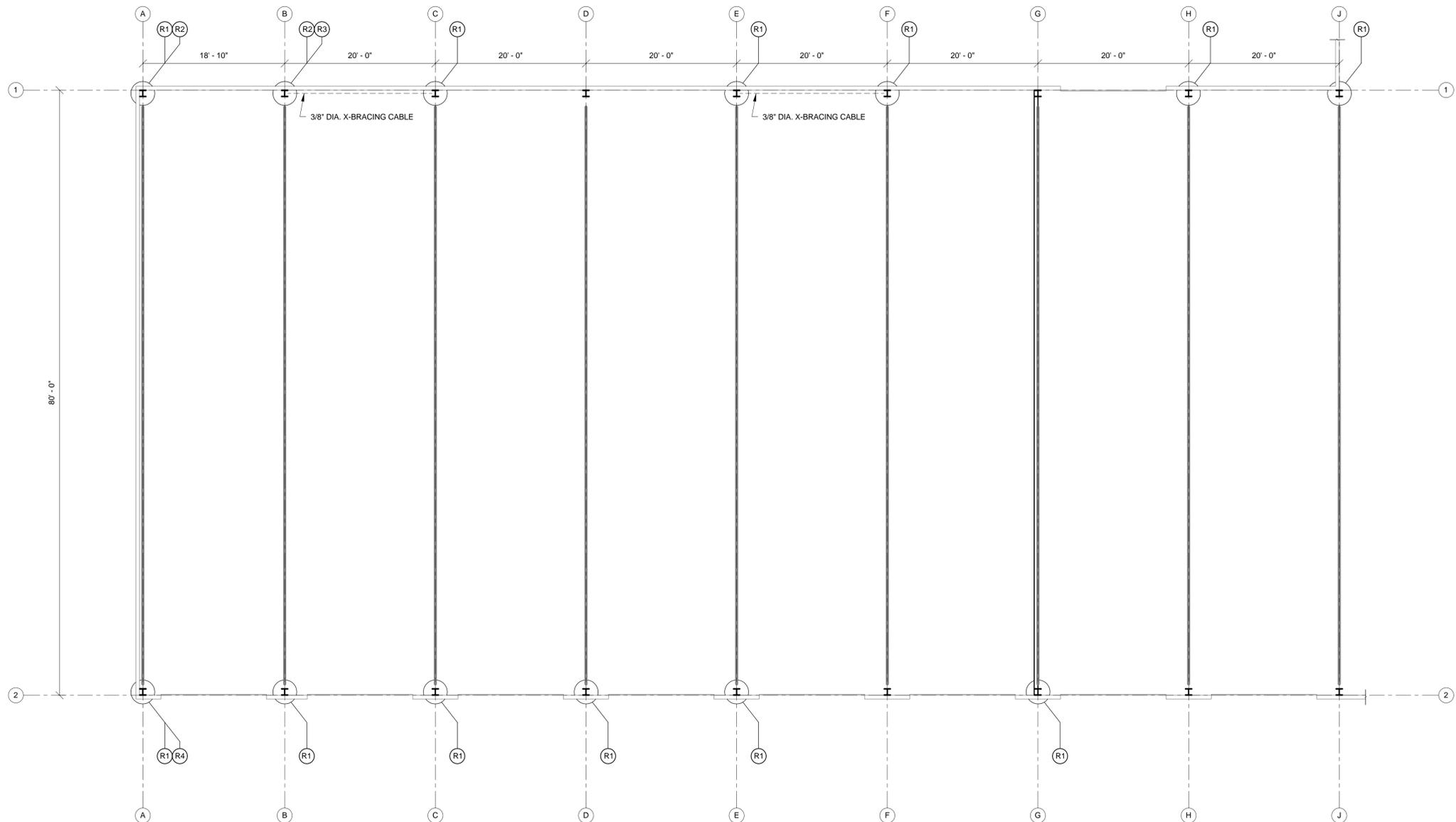
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA

Joseph W. Stanisz 12-24-15
JOSEPH W. STANISZ, P.E. IOWA REG. NO. 16329
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2017

PAGES OR SHEETS COVERED BY THIS SEAL:
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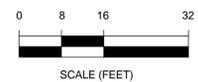
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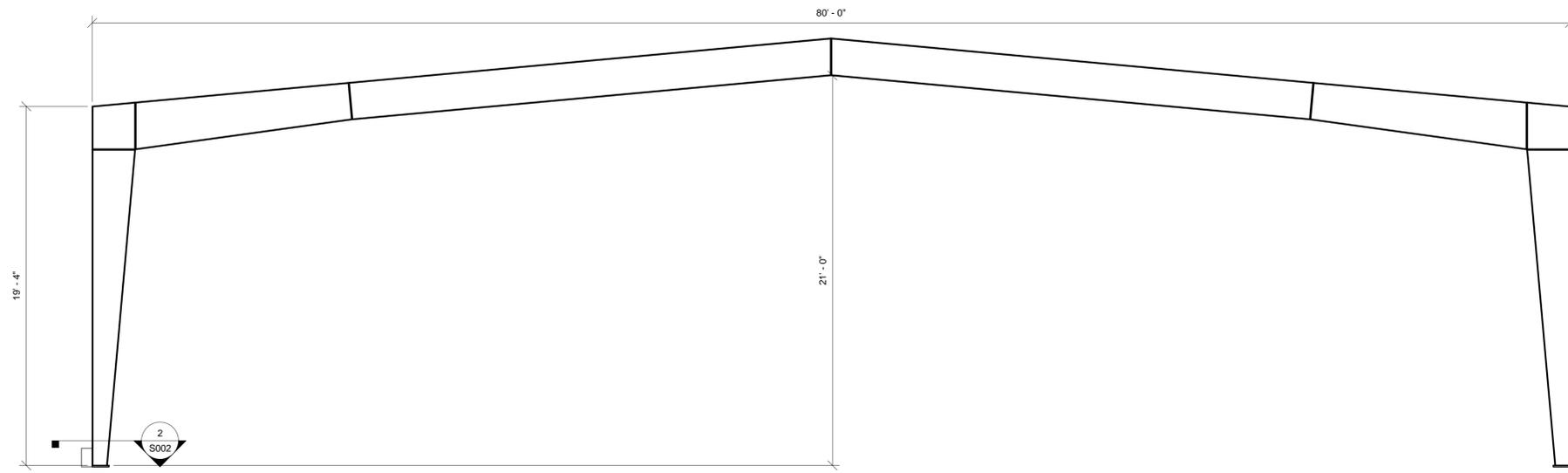

COLUMN REPAIR PLAN
 1/8" = 1'-0"

REPAIR ITEMS:

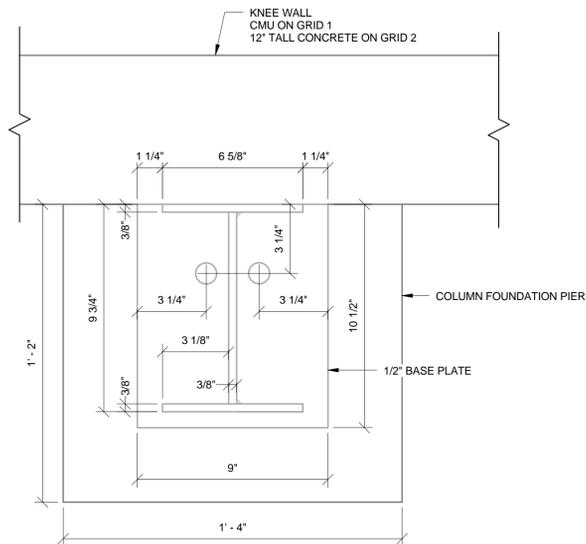
- R1. CLEAN CORROSION AND FAILED PAINT OFF OF EXISTING COLUMNS. PAINT BASE PLATE AND 3' OF COLUMN ABOVE BASE PLATE.
SEE PAINTING NOTES FOR FURTHER REQUIREMENTS.
- R2. SAND BLAST BASE PLATE AND LOWER AREA OF COLUMN TO REMOVE EXISTING CORROSION IN AREA OF REPAIR.
INSTALL SUPPLEMENTAL WEB PLATE ON EAST SIDE OF COLUMN. NEW PLATE SHALL EXTEND A MINIMUM OF 1' ABOVE BASE PLATE. SEE DETAIL 3/S002.
- R3. SAND BLAST BASE PLATE AND LOWER AREA OF COLUMN TO REMOVE EXISTING CORROSION IN AREA OF REPAIR.
INSTALL TEMPORARY X-BRACING CABLE THROUGH COLUMN FLANGE 3' ABOVE BASE PLATE LEVEL ON GRID B. OPPOSITE END OF TEMPORARY CABLE IS TO BE ATTACHED TO THE HIGH SIDE OF THE COLUMN ON GRID C. NEW CABLE SHALL MATCH DIAMETER OF EXISTING CABLE.
AFTER TEMPORARY X-BRACING CABLE IS INSTALLED, UNINSTALL ORIGINAL X-BRACING CABLE ANCHORAGE THROUGH EXISTING WEB PLATE. EXISTING X-BRACING CABLE MUST BE REMOVED PRIOR TO INSTALLING NEW SUPPLEMENTAL WEB PLATES.
INSTALL SUPPLEMENTAL WEB AND FLANGE PLATES ON COLUMN. NEW PLATES SHALL EXTEND A MINIMUM OF 2' ABOVE BASE PLATE. SEE DETAIL 5/S002.
RE-INSTALL ORIGINAL X-BRACING CABLE THROUGH NEW SUPPLEMENTAL WEB PLATES AT ORIGINAL MOUNTING HEIGHT. TEMPORARY X-BRACING CABLE SHALL THEN BE REMOVED.
- R4. SAND BLAST BASE PLATE AND LOWER AREA OF COLUMN TO REMOVE EXISTING CORROSION IN AREA OF REPAIR.
INSTALL SUPPLEMENTAL WEB PLATE ON EAST SIDE OF COLUMN AND SUPPLEMENTAL FLANGE PLATES ON EAST HALF OF FLANGES. NEW PLATES SHALL EXTEND A MINIMUM OF 1' ABOVE BASE PLATE. SEE DETAIL 4/S002.



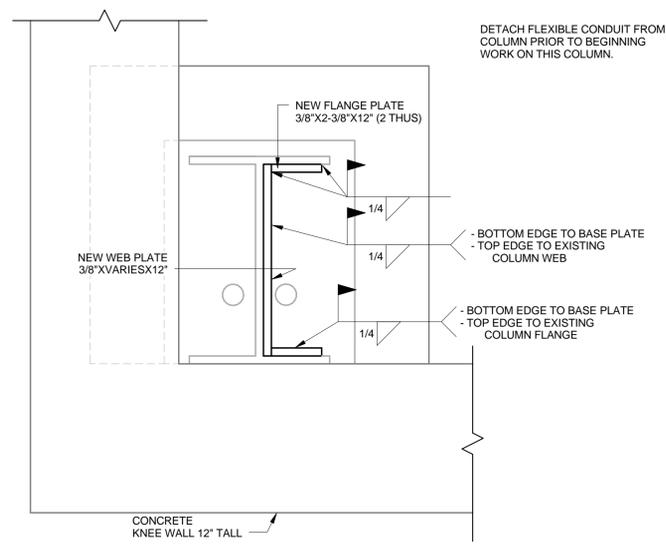
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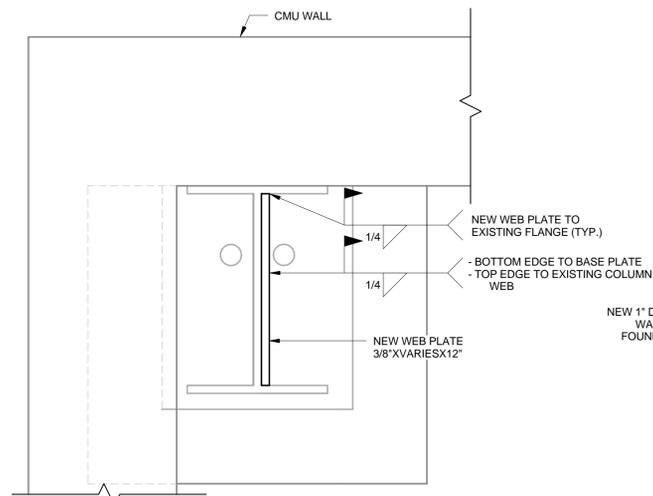
1 ELEVATION - TYPICAL RIGID FRAME
1/4" = 1'-0"



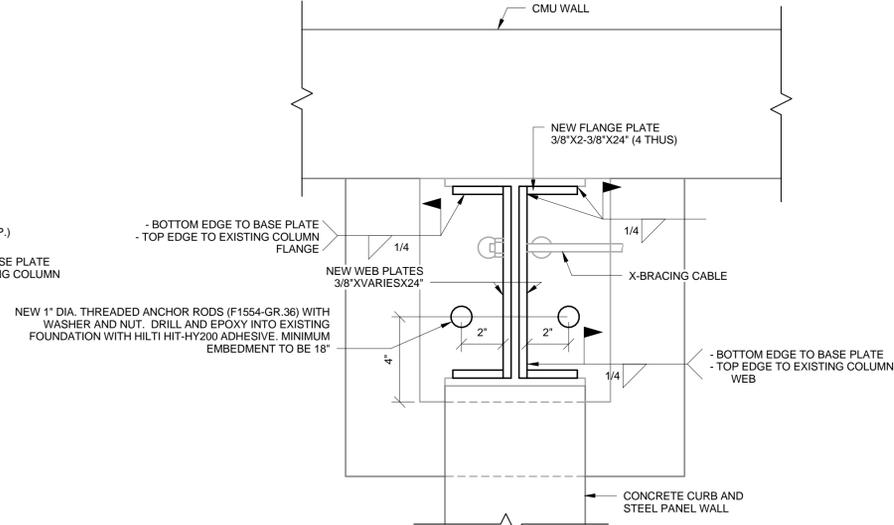
2 SECTION - EXISTING COLUMN CONDITIONS
3" = 1'-0"



4 COLUMN AT GRID INTERSECTION A-2
3" = 1'-0"



3 COLUMN AT GRID INTERSECTION A-1
3" = 1'-0"



5 COLUMN AT GRID INTERSECTION B-1
3" = 1'-0"

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1 INTERIOR OF GARAGE
1/4" = 1'-0"



4 COLUMN A-2 CLOSEUP
1/4" = 1'-0"



7 COLUMN B-1 OVERALL EAST SIDE
1/4" = 1'-0"



2 COLUMN A-1 CLOSEUP
1/4" = 1'-0"



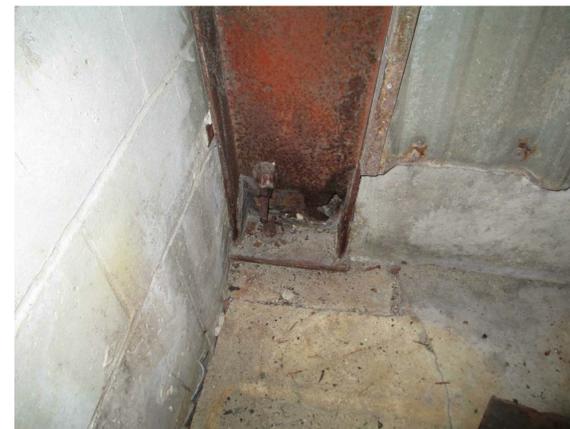
5 COLUMN B-1 OVERALL WEST SIDE
1/4" = 1'-0"



8 COLUMN B-1 EAST SIDE CLOSEUP
1/4" = 1'-0"



3 COLUMN A-2 OVERALL
1/4" = 1'-0"



6 COLUMN B-1 WEST SIDE CLOSEUP
1/4" = 1'-0"

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