



State of Utah

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

Department of Administrative Services

KIMBERLY K. HOOD
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON
Director

ADDENDUM NO. 1

Date: August 25, 2009

To: Contractors

From: Jim Russell – Project Manager

Reference: New Pleasant Grove Liquor and Wine Store
Department of Alcoholic Beverage Control
DFCM Project No. 08225030

Subject: **Addendum No. 1**

Pages	Addendum Cover Sheet	1 page
	Revised Bid Form	2 pages
	Architect's Addendum No. 1	4 pages
	<u>Structural Drawings</u>	<u>5 pages</u>
	Total	12 pages

Note: *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

1.1 **SCHEDULE CHANGES:** No Project Schedule changes

1.2 **GENERAL ITEMS:**

- 1.2.1 See attached Revised Bid Form – includes Additive Alternate No. 1
- 1.2.2 See attached Architect's Addendum No. 1
- 1.2.3 See attached structural drawings.



**BID FORM – REVISED
PER ADDENDUM NO. 1 DATED AUGUST 25, 2009**

NAME OF BIDDER _____ DATE _____

To the Division of Facilities Construction and Management
4110 State Office Building
Salt Lake City, Utah 84114

The undersigned, responsive to the "Invitation to Bid" and in accordance with the Request for Bids for the **NEW PLEASANT GROVE LIQUOR AND WINE STORE - DEPARTMENT OF ALCOHOLIC BEVERAGE CONTROL - PLEASANT GROVE, UTAH - DFCM PROJECT NO. 08225030** and having examined the Contract Documents and the site of the proposed Work and being familiar with all of the conditions surrounding the construction of the proposed Project, including the availability of labor, hereby proposes to furnish all labor, materials and supplies as required for the Work in accordance with the Contract Documents as specified and within the time set forth and at the price stated below. This price is to cover all expenses incurred in performing the Work required under the Contract Documents of which this bid is a part:

I/We acknowledge receipt of the following Addenda: _____

BASE BID: For all work shown on the Drawings and described in the Specifications and Contract Documents, I/we agree to perform for the sum of:

_____ DOLLARS (\$) _____
(In case of discrepancy, written amount shall govern)

ADDITIVE ALTERNATE NO. 1: For all work shown on the Drawings and described in the Specifications and Contract Documents to provide all labor and materials associated with the installation of a slate shingle roof (Specification Section 07322) in lieu of a concrete tile roof (Specification Section 07321), I/we agree to perform for the sum of:

_____ DOLLARS (\$) _____
(In case of discrepancy, written amount shall govern)

I/We guarantee that the Work will be Substantially Complete by **May 14, 2010**, should I/we be the successful bidder, and agree to pay liquidated damages in the amount of **\$500.00** per day for each day after expiration of the Contract Time as stated in Article 3 of the Contractor's Agreement.

This bid shall be good for 45 days after bid opening.

Enclosed is a 5% bid bond, as required, in the sum of _____

The undersigned Contractor's License Number for Utah is _____

BID FORM
PAGE NO. 2

Upon receipt of notice of award of this bid, the undersigned agrees to execute the contract within ten (10) days, unless a shorter time is specified in Contract Documents, and deliver acceptable Performance and Payment bonds in the prescribed form in the amount of 100% of the Contract Sum for faithful performance of the contract. The Bid Bond attached, in the amount not less than five percent (5%) of the above bid sum, shall become the property of the Division of Facilities Construction and Management as liquidated damages for delay and additional expense caused thereby in the event that the contract is not executed and/or acceptable 100% Performance and Payment bonds are not delivered within time set forth.

Type of Organization: _____
(Corporation, Partnership, Individual, etc.)

Any request and information related to Utah Preference Laws:

Respectfully submitted,

Name of Bidder

ADDRESS:

Authorized Signature

Department of Alcoholic Beverage Control
New Pleasant Grove Liquor Store
Addendum A01

Addendum No. A01

Issued Tuesday August 25, 2009

PROJECT

**New Pleasant Grove, UT Liquor Store
Department of Alcoholic Beverage Control
Cedar City, Utah
DFCM Project No. 08225030**

ARCHITECT

**Frank N Murdock Jr Architect & Associates
975 East 100 South
Salt Lake City, Utah 84102
(801) 532-4441**

The original Contract Documents issued for the above noted project are amended as noted in this Addendum. It shall be the sole responsibility of the bidder to appropriately disseminate this data to all concerned, prior to the assigned bid time and date.

Receipt of this Addendum shall be acknowledged by inserting its number and date in the appropriate space provided on the bid form. This Addendum consists of four (4) 8 1/2" x 11" Addendum Sheets and five (5) 30" x 42" structural drawings in PDF format.

This document identifies changes made to the construction documents and may not be all-inclusive of the changes. Please refer to new drawings accompanying this Addendum.

DRAWINGS:

1. **Sheets S001, S101, S102, S201 and S202:** These drawings have been revised and are being reissued as part of this addendum. The changes to the drawings have been clouded.

SPECIFICATIONS:

1. **Specification Section 04240 ARTIFICIAL STONE**
 - a. PART 2 PRODUCTS, 1.1 MATERIALS, A.: Add: "Canyon Stone, 1093 West 2180 North, Salt Lake City, UT 84116, (801) 364-0527".
2. **Specification Section 07410 PREFORMED ROOFING AND SIDING**
 - a. PART 2 PRODUCTS, 2.2, A. Change to read: "Steel for Painting/Coating: Minimum 20 gauge hot-dip zinc coated sheet metal..." in lieu of "24 gauge".
 - b. PART 2 PRODUCTS, 2.2, B. Change to read: "Gutters and Downspouts: Minimum 20 gauge hot-dip zinc coated sheet metal..." in lieu of "22 gauge".

3. **Specification Section 07511 THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING**
 - a. PART 1 GENERAL, 1.2 SUMMARY, A.1.j. Available Manufacturers: Add "VersiWeld Mechanically Attached Roofing System".

4. **Specification Section 16835 CCTV & DIGITAL RECORDING SYSTEM**
 - a. PART 1 GENERAL: Remove Paragraph 1.3.

5. **Specification Section 16900 FIRE ALARM DETECTION SYSTEM**
 - a. PART 2 PRODUCTS, 2.1 ACCEPTABLE MANUFACTURERS:
Revise Paragraph A. to read:
"Fire Alarm Detection System:
Silent Knight
Or pre-approved equal."

CLARIFICATION:

1. The gutter pan, noted in detail 4/A303, is to be a two-piece assembly with a 16 gauge galvanized metal pan, wrapped with a 20 gauge prefinished metal cladding.

QUESTIONS:

1. Per sheet AS101 General Note #9 says silt fence west & south side but it is drawn all around site per Reference note #15. Please clarify.

Answer: Silt fence shall be installed and maintained on all four sides of the property per Reference Note #15 and as key-noted on the Demolition Site Plan on Sheet AS101.

2. Geotechnical Report vs. spec. section 02200 – Earthwork 1.2.D - both say different things concerning over excavation and structural fill. Please clarify.

Answer: Below the proposed building, exterior flatwork and rigid pavement areas, the contractor shall remove from the site and properly dispose of the brown to dark brown gravelly and silty clay fill, including cobbles, concrete debris, etc. to depth of three feet (3'). Imported engineered fill used should have an in-place and compacted to 95 percent unit weight of no more that 120 pounds per cubic foot. Heavier fills will not work. Spread footings supporting columns loads should be underlain by a minimum of 12 inches of granular structural replacement fill (in most cases the underlain structural fill will exceed 12 inches).

3. Can the Soils Report for the Heber City Liquor Store be removed from the project manual?

Answer: Remove Appendix A-2 (Heber City soils report) and Appendix C-2 (Heber City Fire Flow Analysis) from the specifications.

4. Other than the area at the existing well, which is clearly shown to be over excavated, will we be required to excavate lower than the required sub grades of the building or site work and place compacted engineered fill in it's place? Please specify these areas and the required depths for bidding purposes. The soils report appears inconclusive. Any additional direction you could give us in this area to clarify your intent would be helpful.

Answer: Refer to the answer to Question 2 above.

5. We have had excavators look at the plans for the PG Liquor Store. All of them have the same question. Is the soils report for this project, Heber is what is in the spec book, available? Without the soils report they don't know for sure what is expected of them for fill so there aren't really any questions to ask. Any way we can get the soils report issued and then give the excavators a day or two to get questions in?

Answer: The soils report for the Pleasant Grove Liquor Store is in the current Specification, Appendix A-1. Also, refer to the answer to Question 3 above.

6. Do the exposed round ducts receive duct wrap insulation?

Answer: No.

7. Questions on aluminum finish:

Section 08410 calls for class 1 anodized finish or painted finish. Section 08711 calls for automatic doors to be painted with fluoropolymer paint to match storefront. Is paint to be standard white which is a stock color or some other color which is not in stock?

Answer: All aluminum windows and storefront systems, including automatic sliding doors are to be dark bronze anodized (no clear anodized).

Frame F-13 and door 02 are interior. Do they need laminated/tempered insulating glass? Or can they be 1 / 4" tempered glass at the interior of the building?

Answer: Interior glazing at Frame F-13 and Door 02 is to be laminated/tempered insulating glass (clear, not tinted).

8. In order to eliminate any possible confusion could you clarify on the AS101 and AS102 plan sheets that the existing light poles and bases are to be removed.

Answer: The contractor shall remove and properly dispose of existing light poles and bases within the contract limits. Also, refer to Keyed Note 14 on Sheet E101 regarding the existing area lighting circuit.

9. As was done by addendum with the Heber City Liquor Store do you want to delete paragraph 1.3 Approved Installers from Specification Section 16835 and do you want to add "Fire-lite" as an acceptable manufacturer on page 2 of Specification Section 16900?

Answer: Refer to "SPECIFICATIONS" changes above.

10. Should Specification Section 07311 asphalt shingles be deleted from this project manual?

Answer: Delete Specification Section 07311.

11. How deep is the sewer line?

Answer: For bidding purposes assume the existing sewer line to be 8'-0" deep. Field verify prior to installation.

End of Document

STRUCTURAL NOTES

STRUCTURAL DESIGN LOADS

Table with 2 columns: Load Type and Value. Includes roof loads (dead, snow, wind), wind speed, seismic category, and soil pressure.

GENERAL

- 1. ALL DESIGN, CONSTRUCTION, AND INSPECTION SHALL BE IN CONFORMANCE WITH THE 2006 INTERNATIONAL BUILDING CODE.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.

QUALITY ASSURANCE PLAN

- 1. SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER ACCORDING TO IBC CHAPTER 17 FOR THE ITEMS IDENTIFIED IN THIS SECTION AND ON THE CONTRACT DOCUMENTS.
2. THE NAMES AND CREDENTIALS OF SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A BUILDING PERMIT.
3. SPECIAL INSPECTION REPORTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD, ARCHITECT, AND OWNER (AS REQUESTED) BI-WEEKLY OR MORE FREQUENTLY AS REQUIRED BY THE INSPECTOR OR BUILDING OFFICIAL.

QUALITY ASSURANCE - CONTRACTOR RESPONSIBILITY

- 1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
A. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.

STRUCTURAL DEFERRED SUBMITTALS

- 1. CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT TO ARCHITECT/ENGINEER BEFORE SUBMITTING TO JURISDICTION FOR REVIEW AND PERMITTING.

- ITEMS:
1. OPEN WEB METAL JOISTS AND GIRDS
2. CONCRETE MIX DESIGN

FOOTINGS

- 1. ALL FOOTINGS SHALL BEAR ON ENGINEERED COMPACTED FILL EXTENDING DOWN TO SUITABLE SOILS AS PER THE GEOTECHNICAL REPORT BY GORDAN SPIJKER HUBER GEOTECHNICAL CONSULTANTS, INC. JOB NUMBER 0128-032-08 DATED FEB 3, 2009. EXCAVATION MUST BE FIELD VERIFIED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING ANY STRUCTURAL FILL.
2. FOOTING ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.

REINFORCING STEEL

- 1. ALL REINFORCING SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL 318-05 AND ACI STANDARD 318-05.
2. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. LAP ONE MESH TIE.
4. ALL REINFORCEMENT SHALL BE SECURELY TIED AND HELD IN PLACE.

CONCRETE

- 1. CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
CONTAINING THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS, INCLUDING THE "CODE OF STANDARD PRACTICES" (LATEST EDITION), AND WITH THE IBC 2006 EDITION.
2. ALL WIDE FLANGE STRUCTURAL STEEL SHALL BE ASTM A992 AND ALL MISCELLANEOUS SHAPES SHALL BE ASTM A36, UNO.

CONCRETE, CONT

- 1. ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES AND BY WELDERS CERTIFIED BY AWS STANDARDS WITHIN THE PAST 12 MONTHS; PROVIDE WRITTEN CERTIFICATION IF REQUESTED.
2. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE APPROPRIATE MINIMUM BOLT TENSION IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. THE PREFERRED METHOD OF TIGHTENING IS BY USE OF A "DIRECT TENSION INDICATOR." THE TURN-OF-NUT METHOD MAY ALSO BE USED. PROVIDE CARBONIZED WASHERS UNDER THE TURNED ELEMENTS.
3. ALL STEEL JOISTS, JOIST GIRDERS, AND ASSOCIATED WORK SHALL COMPLY WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE. UNLESS SHOWN OTHERWISE, PROVIDE BRIDGING IN ACCORDANCE WITH THIS SPECIFICATION AS A MINIMUM. JOIST FABRICATOR SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE (SJI). JOISTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT AND HE SHALL SEAL AND SIGN ALL DESIGN CALCULATIONS AND JOISTS SHOP DRAWINGS. DESIGN SHALL COMPLY WITH ALL LOADING REQUIREMENTS INDICATED ON THE DRAWINGS AND NOTES. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL CLEARLY INDICATE ALL LOADINGS, DIMENSIONS, MEMBER FORCES, REACTIONS, MEMBER SIZES, WELD REQUIREMENTS AND JOINT DETAILS. JOISTS SHALL BE DESIGNED ASSUMING HORIZONTAL MOVEMENT IS ALLOWED AT ONE END, UNLESS NOTED OTHERWISE.

MASONRY (CMU)

- 1. ALL MASONRY SHALL BE REINFORCED WITH BOTH HORIZONTAL AND VERTICAL REINFORCEMENT. ALL BLOCK CELLS OR BRICK CAVITIES WITH REINFORCEMENT SHALL BE GROUTED FULL USING CONCRETE 2000 PSI GROUT. CELLS SHALL BE ALIGNED TO PRESERVE UNOBSTRUCTED VERTICAL CAVITIES OF 2"x3" MINIMUM.
2. CONCRETE FOR BLOCK FILL SHALL HAVE 3/8" MAXIMUM SIZE COURSE AGGREGATE AND SUFFICIENT WATER SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS. WHERE BEAMS BEAR ON CONCRETE BLOCK WALLS, BLOCK CELLS SHALL BE FILLED WITH CONCRETE 1'-4" WIDE TO FOUNDATION AND REINFORCED WITH A #5 EACH CELL, UNLESS OTHERWISE SHOWN.
3. AN ADDITIONAL VERTICAL BAR (MATCHING WALL REINFORCEMENT) SHALL BE PLACED AT EACH CORNER, END OF WALL, AND JAMB OF ALL OPENINGS.

STRUCTURAL STEEL

- 1. ALL STRUCTURAL STEEL AND STRUCTURAL STEEL WORK SHALL COMPLY WITH BOTH THE AISC "MANUAL OF STEEL CONSTRUCTION" AND THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, INCLUDING THE "CODE OF STANDARD PRACTICES" (LATEST EDITION), AND WITH THE IBC 2006 EDITION.
2. ALL WIDE FLANGE STRUCTURAL STEEL SHALL BE ASTM A992 AND ALL MISCELLANEOUS SHAPES SHALL BE ASTM A36, UNO.
3. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B; YIELD STRESS = 46 KSI.
4. STRUCTURAL STEEL PIPE COLUMNS SHALL CONFORM TO ASTM A501, GRADE B; YIELD STRESS = 35 KSI.
5. USE A325 BOLTS FOR STEEL TO STEEL CONNECTIONS AND A307 BOLTS FOR ALL OTHER CONNECTIONS. USE 3/4" DIAMETER MINIMUM.
6. PRIOR TO FABRICATION AND ERECTION, SHOP DRAWINGS FOR ALL STEEL ITEMS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWING DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.

STRUCTURAL STEEL, CONT

- 1. ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES AND BY WELDERS CERTIFIED BY AWS STANDARDS WITHIN THE PAST 12 MONTHS; PROVIDE WRITTEN CERTIFICATION IF REQUESTED.
2. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE APPROPRIATE MINIMUM BOLT TENSION IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. THE PREFERRED METHOD OF TIGHTENING IS BY USE OF A "DIRECT TENSION INDICATOR." THE TURN-OF-NUT METHOD MAY ALSO BE USED. PROVIDE CARBONIZED WASHERS UNDER THE TURNED ELEMENTS.
3. ALL STEEL JOISTS, JOIST GIRDERS, AND ASSOCIATED WORK SHALL COMPLY WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE. UNLESS SHOWN OTHERWISE, PROVIDE BRIDGING IN ACCORDANCE WITH THIS SPECIFICATION AS A MINIMUM. JOIST FABRICATOR SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE (SJI). JOISTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT AND HE SHALL SEAL AND SIGN ALL DESIGN CALCULATIONS AND JOISTS SHOP DRAWINGS. DESIGN SHALL COMPLY WITH ALL LOADING REQUIREMENTS INDICATED ON THE DRAWINGS AND NOTES. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL CLEARLY INDICATE ALL LOADINGS, DIMENSIONS, MEMBER FORCES, REACTIONS, MEMBER SIZES, WELD REQUIREMENTS AND JOINT DETAILS. JOISTS SHALL BE DESIGNED ASSUMING HORIZONTAL MOVEMENT IS ALLOWED AT ONE END, UNLESS NOTED OTHERWISE.

LIGHT GAGE METAL FRAMING

- 1. DESIGN, FABRICATION AND ERECTION OF LIGHT-GAGE METAL FRAMING SHALL COMPLY WITH REQUIREMENTS OF: AISC "MANUAL OF STEEL CONSTRUCTION", AWS "STRUCTURAL WELDING CODE", AISC "SPECIFICATION FOR MECHANICAL SUBMITTALS", THE CONTRACTOR SHALL FURNISH STEEL SUPPLIER LAYOUT AND DETAIL INFORMATION NECESSARY TO SUPPLEMENTARY DRAWINGS OR OTHER INFORMATION NECESSARY TO LAYOUT AND DETAIL THE FABRICATION OF OTHER STEEL WORK SHALL NOT BE DELAYED BY THIS PORTION OF THE WORK. SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.
2. STEEL ROOF DECK SHALL COMPLY WITH THE LATEST REQUIREMENTS OF STEEL DECK INSTITUTE, SD1. SUBMIT ICBO REPORT WITH SHOP DRAWINGS.
3. WHERE POSSIBLE, ALL DECK SHALL BE (3) SPAN CONTINUOUS MINIMUM. IN AREAS WHERE (3) SPAN CONDITIONS ARE NOT POSSIBLE, THE DECK SHALL MEET THE LOADING CRITERIA FOR THE SPAN CONDITION. THE CONTRACTOR SHALL PROVIDE HEAVIER GAGE DECK AND/OR SHORING AS REQUIRED.
4. ALL 16 AND 18 GAGE STUDS, AND ALL TRUCK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF ASTM A-446, WITH A MINIMUM YIELD OF 33 KSI FOR 18 GAGE AND 50 KSI FOR 16 GAGE. FOR STUDS AND 33 KSI FOR RUNNERS, BRIDGING, END CLOSURES AND ACCESSORIES.

DRILL & EPOXY

- 1. USE HILTI HIT RE 500 ADHESIVE SYSTEM OR EQUIVALENT FOR CONNECTIONS INTO EXISTING CONCRETE & HILTI HIT HY 150 OR EQUIVALENT FOR CONNECTIONS WITH SOLID GROUTED MASONRY.
2. USE HILTI HY20 ADHESIVE SYSTEM OR EQUIVALENT FOR ALL HOLLOW UNIT CMU CONNECTIONS AND UNREINFORCED MASONRY WALLS, INCLUDING MULTI-WYTHE WALLS.
3. TEN PERCENT OF ALL ANCHORS PLACED SHALL BE RANDOMLY TESTED TO 100% OF MANUFACTURER'S SPECIFIED ALLOWABLE LOAD. IF ANY ANCHOR FAILS IT SHALL BE REPLACED AND RETESTED AT NO ADDITIONAL COST TO THE OWNER. IF AN ANCHOR FAILS, 100% OF ALL OTHER ANCHORS INSTALLED BY THAT SAME CREW SHALL BE TESTED AT NO ADDITIONAL COST TO THE OWNER.

TERMS AND ABBREVIATIONS (SYMBOLS, A - K)

Table with 4 columns: ABBRV, TERM, ABBRV, TERM. Lists abbreviations for numerical quantities, architectural/engineer, aluminum, steel, etc.

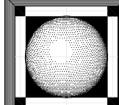
TERMS AND ABBREVIATIONS (L - Z)

Table with 4 columns: ABBRV, TERM, ABBRV, TERM. Lists abbreviations for pounds, schedule, section, etc.

- NOTES:
1. * CONTEXT INDICATES WHICH ABBREVIATION TERM IS IMPLIED. CONTACT ENGINEER IF MEANING IS NOT OBVIOUS.
2. NOT ALL ABBREVIATIONS ARE USED.
3. MANY ABBREVIATIONS MAY BE MADE PLURAL BY ADDING AN S SUFFIX.
4. FOR ABBREVIATIONS NOT LISTED, REFER TO THE US NATIONAL CAD STANDARD, VERSION 3.1, TERMS AND ABBREVIATIONS SECTION, OR CONTACT ENGINEER.

TERMS AND ABBREVIATIONS

A6 1717_01 Abbreviations SCALE: NONE



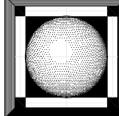
NEW PLEASANT GROVE LIQUOR STORE
DEPT. OF ALCOHOLIC BEVERAGE CONTROL
FRANK N. MURDOCK JR. Architect & Associates
975 East 100 South Suite 100, Salt Lake City, Utah 84102

REVISION # DATE:
PERMIT RESPONSE 08-11-09

DCOM PROJECT NO.:
CONSTRUCTION DOCS
PLOT SCALE: AS NOTED
DRAWN BY: JRS
CHECKED BY: SP
DATE: JULY 22, 2009

S001

STRUCTURAL NOTES



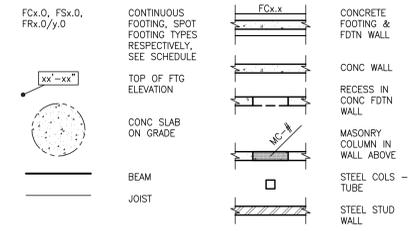
NEW PLEASANT GROVE LIQUOR STORE
 DEPT. OF ALCOHOLIC BEVERAGE CONTROL
 PLEASANT GROVE, UT
FRANK N. MURDOCK JR. Architect & Associates
 975 East 100 South, Suite 100, Salt Lake City, Utah 84102 TEL: (801) 532-4441 FAX: (801) 532-4220

S101

PLAN NOTES (FTG & FDTN):

- 1. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, TYPICAL.
- 2. FINISH SLAB ELEVATION = 100'-0", UNLESS NOTED THUS: $FSE=xxx'-xx"$. SLOPE UNIFORMLY TO FLOOR DRAINS.
- 3. SEE DETAIL A1/S201 FOR TYPICAL STEP IN SLAB. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF STEPS.
- 4. SLAB ON GRADE SHALL BE 5" FREE-DRAINING GRAVEL REINFORCE SLAB WITH #4 @ 24" OC EA DIR.
- 5. PLACE CONTROL JOINTS AND CONSTRUCTION JOINTS IN SLAB PER STRUCTURAL NOTES. SEE DETAIL B2/S201.
- 6. SEE PLAN FOR FOOTING TYPE. SEE SCHEDULE THIS SHEET FOR FOOTING SIZE AND REINFORCEMENT.
- 7. CENTER FOOTINGS ON WALLS AND COLUMNS UNLESS DIMENSIONED OTHERWISE ON PLANS.
- 8. SEE PLAN AND SECTIONS FOR TOP OF FOUNDATION WALL ELEVATIONS.
- 9. SEE DETAIL D5/S201 FOR MASONRY COLUMN SCHEDULE INDICATING SIZE AND REINFORCEMENT.
- 10. SEE DETAIL B1/S201 FOR CONTROL JOINTS IN MASONRY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
- 11. SEE DETAILS B3/S201 & C2/S201 FOR TYPICAL CONCRETE AND MASONRY WALL REINFORCEMENT DETAILS.
- 12. SEE DETAIL B4/S201 FOR TYPICAL STEP IN FOOTING.
- 13. FOUNDATION DESIGN INFORMATION WAS OBTAINED FROM THE SOILS REPORT PREPARED BY GSH GEOTECHNICAL CONSULTANTS, INC. ALL SITE PREPARATION, EXCAVATION, FILL, COMPACTION, AND PLACEMENT WORK PERFORMED SHALL COMPLY WITH RECOMMENDATIONS OUTLINED IN THE ABOVE REFERENCED REPORT.
- 14. SEE ARCHITECTURAL/SITE DRAWINGS FOR INFORMATION AND LOCATION OF SITE WALLS, STEPS, PLANTERS, RAMPS, ETC.
- 15. SEE DETAILS D2, E3, E4, E5, & E6 ON SHEET S201 FOR SMALL OVERBUILD OFFICE MEZZ FRAMING.
- 16. FLOOR SLAB SHALL BE A TOTAL OF 4" THICK (WITH STEEL DECK) LIGHT WEIGHT CONCRETE (110 PCF) REINFORCE SLAB WITH 6x6 - W1.4xW1.4 WWF IN ADDITION TO ANY MILD REINFORCEMENT SHOWN ON PLANS.
- 17. FLOOR DECK SHALL BE 1/2" VERCO TYPE "B-FORMLOK", 22 GAUGE, GALVANIZED. MINIMUM DECK BEARING = 2" ANCHOR DECK TO SUPPORTING MEMBERS WITH #10 SELF DRILLING SCREWS @ 12" OC ALL DECK FLUTES. BUTTON PUNCH ALL DECK LAPS @ 36" OC.
- 18. SEE DETAILS B5/S201 & C6/S201 FOR REINFORCEMENT LAP-SPlice SCHEDULES.

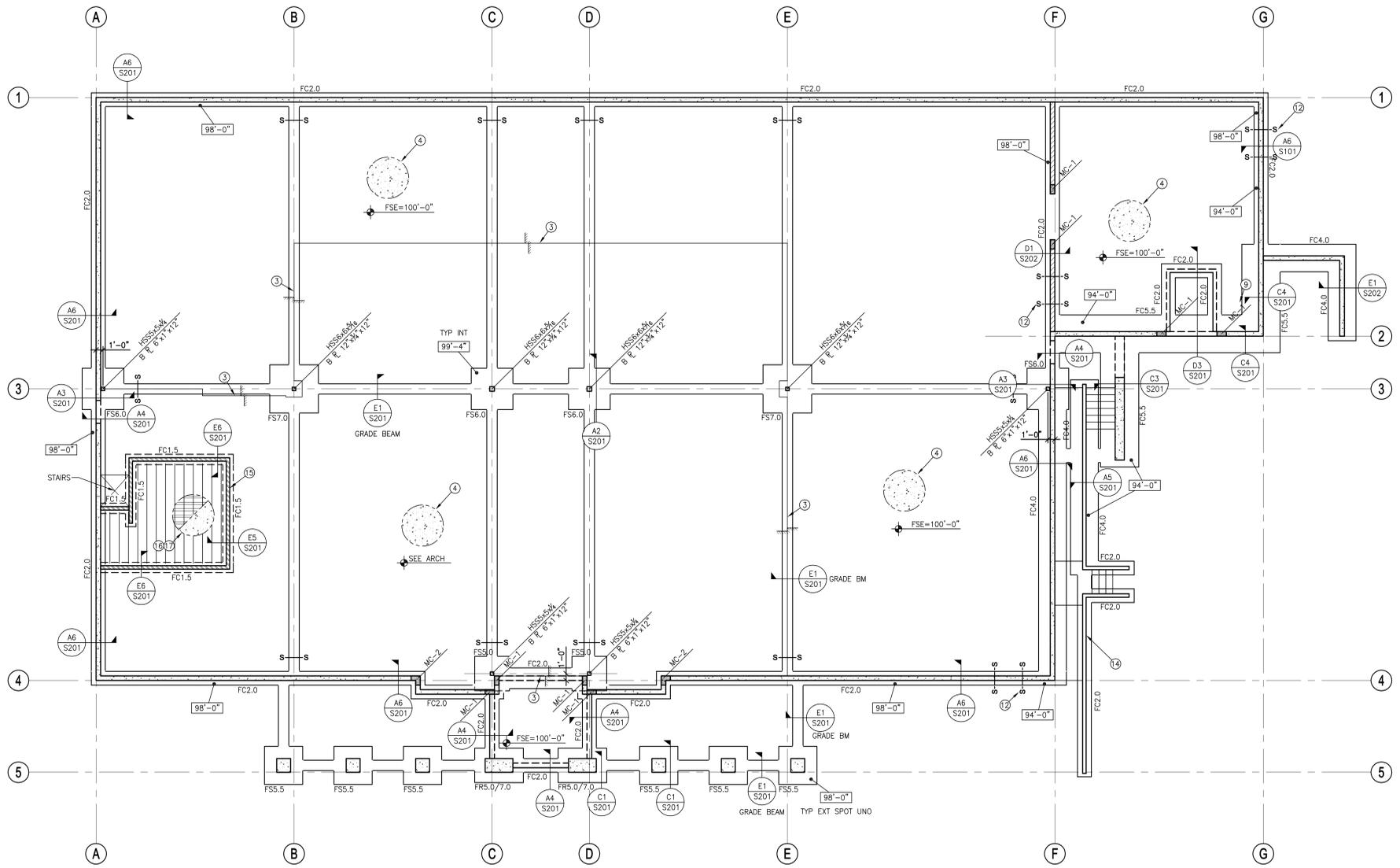
LEGEND:



FOOTING SCHEDULE					
MARK	SIZE	REINFORCEMENT	NOTES		
	WIDTH x THICK x LENGTH	LONGITUDINAL	TRANSVERSE		
FC1.5	1'-6" x 1'-0" x CONT	(3) #4			
FC2.0	2'-0" x 1'-0" x CONT	(3) #4			
FC4.0	4'-0" x 1'-0" x CONT	(4) #5	#5 @ 18"		
FC5.5	5'-6" x 1'-2" x CONT	(6) #5	#5 @ 16"		
FS5.0	5'-0" x 1'-2" x 5'-0"	(5) #5	(5) #5		
FS5.5	5'-6" x 1'-0" x 5'-6"	(5) #5	(5) #5		
FS6.0	6'-0" x 1'-2" x 6'-0"	(6) #5	(6) #5	SEE NOTE 3	
FS7.0	7'-0" x 1'-2" x 7'-0"	(7) #6	(7) #6	SEE NOTE 3	
FR5.0/7.0	5'-0" x 1'-2" x 7'-0"	(5) #5	(7) #5		

- FOOTING NOTES:**
- PLACE CROSSWISE REINFORCING 3" CLEAR FROM GRADE AND LENGTHWISE REINFORCING ON TOP OF CROSSWISE.
 - ALL CONTINUOUS FOOTINGS SHALL BE FC2.0 AND SQUARE FOOTINGS SHALL BE FS5.0-7.0 UNLESS OTHERWISE NOTED.
 - 15" MINIMUM OF COMPACTED STRUCTURAL FILL IS REQUIRED UNDER FOOTINGS NOTED.

B6 3110.00 R-SCHFTGS FOOTING SCHEDULE SCALE: NONE



FOOTING & FOUNDATION PLAN
 SCALE: 1/8" = 1'-0"

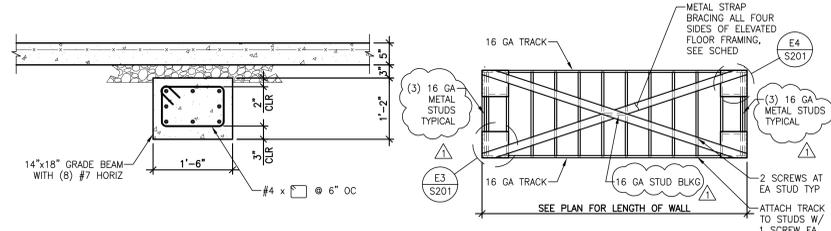
CALDER RICHARDS CONSULTING ENGINEERS
 24 SOUTH 900 WEST, SUITE 100, SALT LAKE CITY, UT 84115
 TEL: 801-467-1899 FAX: 801-467-3495

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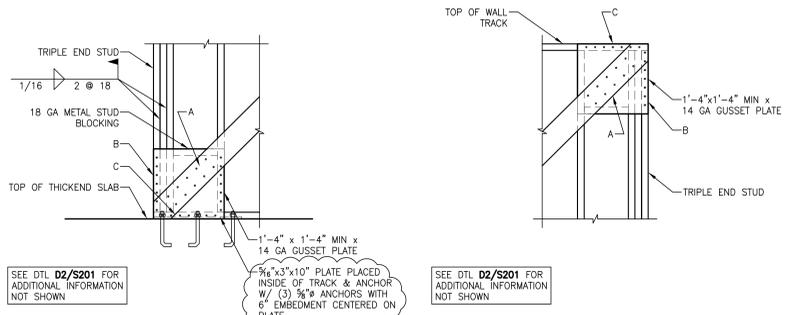
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REVISION # DATE:
 PERMIT RESPONSE
 08-11-09

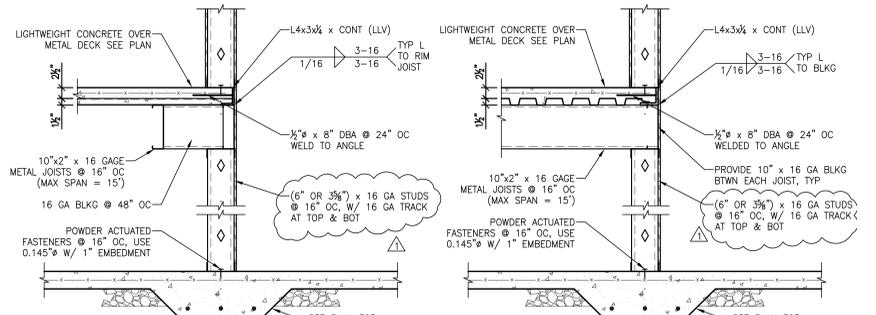
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 PLOT SCALE: AS NOTED
 DRAWN BY: JRS
 CHECKED BY: SP
 DATE: JULY 22, 2009



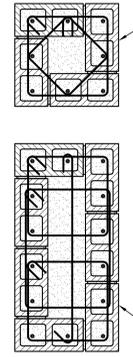
E1 GRADE BEAM
SCALE: 3/4" = 1'-0"



E3 SCALE: 3/4" = 1'-0"
E4 SCALE: 3/4" = 1'-0"



E5 SCALE: 3/4" = 1'-0"
E6 SCALE: 3/4" = 1'-0"

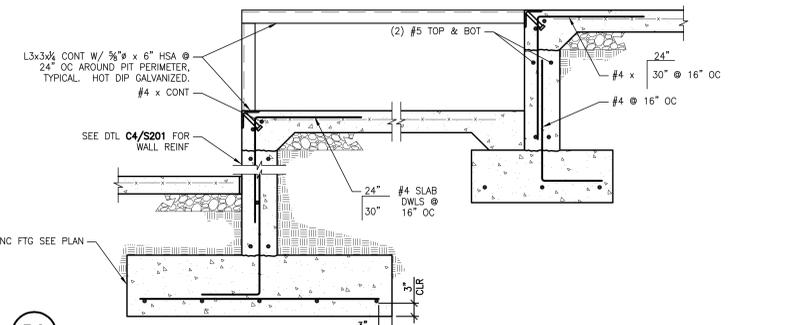


MASONRY COLUMNS AT SECTION A-A, COORD WITH PLAN FOR LOCATIONS

STRAP	FASTENERS (SEE DETAILS)		
	(A) STRAP TO GUSSET PLATE	(B) GUSSET TO EA END STUD	(C) GUSSET TO CONT TRACK
4" x 16 GA	10	8	8

NOTE:
3/8" FILLET WELDS MAY BE SUBSTITUTED FOR SCREWS. PROVIDE 1" x 1/8" FILLET WELD FOR EACH SCREW.

D2 SCALE: 3/4" = 1'-0"



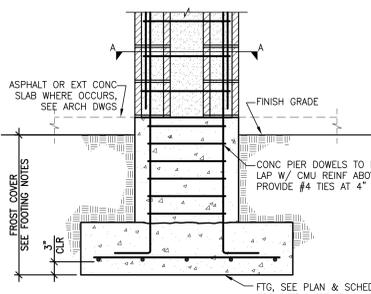
D3 SCALE: 3/4" = 1'-0"

MARK	LENGTH	WIDTH	REINFORCEMENT		TYPE
			VERTICAL	HORIZONTAL TIES	
MC-1	16"	16"	(4) #5	#3 @ 8" OC	1
MC-2	16"	16"	(6) #5	-	2

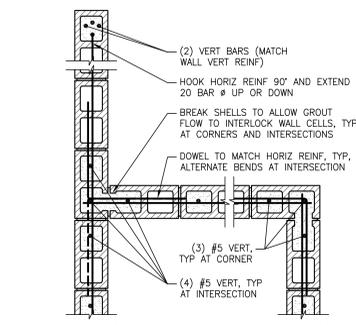


MASONRY COLUMN SCHEDULE SCALE: NONE

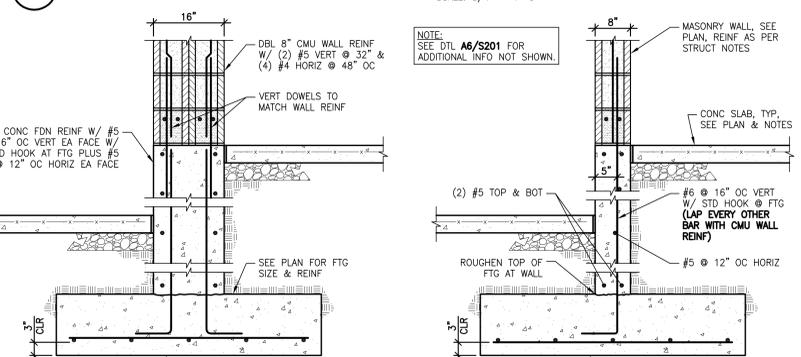
MASONRY COLUMN NOTES:
1. HORIZONTAL WALL REINFORCEMENT SHALL RUN CONTINUOUS THROUGH MASONRY COLUMNS.
2. GROUT ALL REINFORCED CELLS AND VOIDS SOLID.
3. MASONRY COLUMNS REINFORCING SHALL EXTEND FULL HEIGHT FROM ROOF DOWN TO FOUNDATION. DOWEL VERT REIN INTO FOUNDATIONS.
4. SEE ARCHITECTURAL DRAWINGS FOR SPECIAL COURSING ARRANGEMENTS.



C1 3133_01 F-EXTCOL SCALE: 3/4" = 1'-0"



C2 5252_03 SCALE: 3/4" = 1'-0"



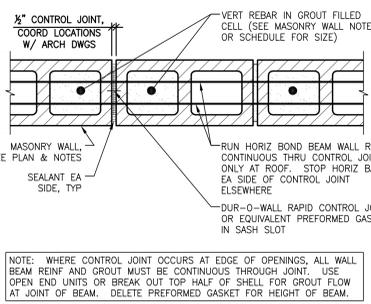
C3 FTG, SEE PLAN & SCHED FOR SIZE & REIN
C4 3152_01 FTG, SEE PLAN & SCHED FOR SIZE & REIN SCALE: 3/4" = 1'-0"

BAR SIZE	MASONRY REINFORCING LAP SPLICE SCHEDULE										
	#3	#4	#5	#6	#7	#8	#9	#10	#11		
MASONRY SINGLE MAT	1'-7"	2'-1"	2'-7"	4'-4"	5'-1"	6'-2"	7'-10"	MECH	MECH		
MASONRY DOUBLE MAT	1'-7"	2'-4"	3'-6"	6'-10"	9'-1"	12'-5"	15'-4"	MECH	MECH		

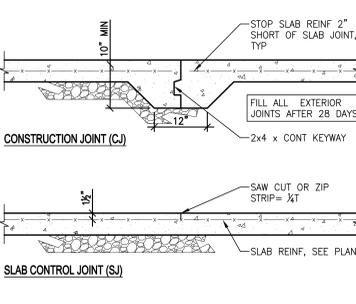


MASONRY REBAR SPLICE SCHEDULE SCALE: NONE

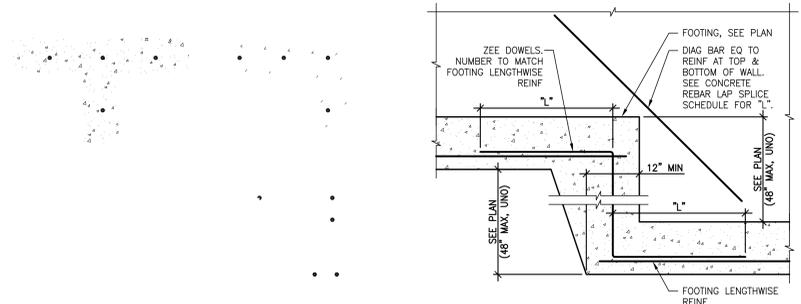
MASONRY REBAR SPLICE NOTES:
1. MECH = MECHANICAL SPLICE REQUIRED.
2. USE #6 BAR IN 10" OR LARGER WALLS ONLY.
3. f'm = 1500 PSI, f_y = 60,000 PSI
4. DOUBLE MAT REINFORCEMENT SHALL HAVE 2" CLEARANCE BETWEEN FACE OF WALL AND EDGE OF VERTICAL BAR.



B1 TYP MASONRY CONTROL JOINT
5257_01 SCALE: NONE



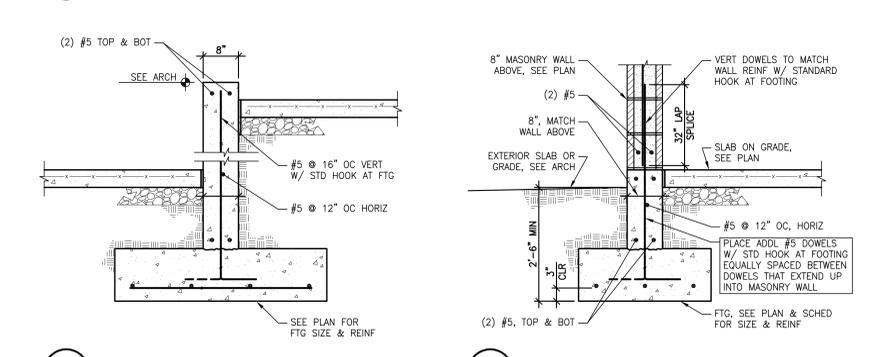
B2 TYPICAL SLAB JOINT DETAILS
3600.02 SCALE: NONE



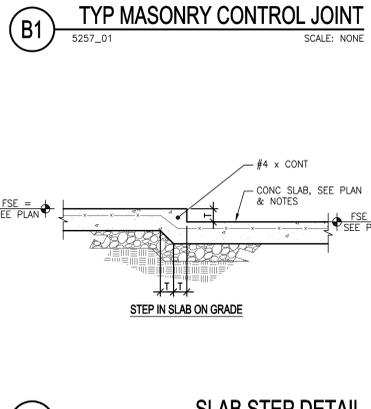
B4 FOOTING STEP (CONC FDTN)
3231.02 SCALE: NONE

BAR SIZE	CONCRETE REINFORCING LAP SPLICE SCHEDULE																							
	f_c=3000psi						f_c=4000psi						f_c=5000psi						f_c=6000psi					
	REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS	
#3	17"	22"	22"	28"	13"	19"	24"	13"	17"	22"	22"	28"	13"	17"	22"	22"	28"	13"	17"	22"	22"	28"	13"	17"
#4	22"	29"	29"	38"	18"	25"	26"	33"	17"	22"	23"	30"	16"	20"	21"	27"	16"	20"	21"	27"	16"	20"	21"	27"
#5	28"	36"	37"	48"	24"	31"	32"	42"	21"	28"	24"	32"	20"	25"	26"	34"	20"	25"	26"	34"	20"	25"	26"	34"
#6	33"	43"	45"	58"	29"	37"	39"	50"	26"	33"	35"	45"	24"	30"	32"	41"	24"	30"	32"	41"	24"	30"	32"	41"
#7	48"	63"	63"	82"	42"	55"	55"	71"	37"	48"	48"	62"	34"	45"	45"	58"	34"	45"	45"	58"	34"	45"	45"	58"
#8	55"	72"	72"	93"	48"	63"	63"	81"	42"	55"	55"	71"	39"	51"	51"	66"	39"	51"	51"	66"	39"	51"	51"	66"
#9	62"	81"	81"	105"	54"	71"	71"	92"	48"	62"	62"	80"	44"	57"	57"	74"	44"	57"	57"	74"	44"	57"	57"	74"
#10	70"	91"	91"	118"	61"	79"	79"	103"	54"	70"	70"	90"	50"	65"	65"	84"	50"	65"	65"	84"	50"	65"	65"	84"
#11	78"	101"	101"	131"	68"	88"	88"	114"	60"	77"	77"	100"	55"	72"	72"	93"	55"	72"	72"	93"	55"	72"	72"	93"

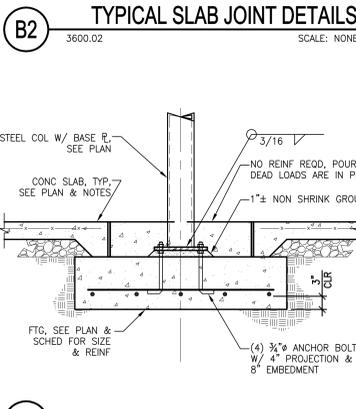
B5 3747_01 Reinforcing Lap Splice Schedule SCALE: NONE



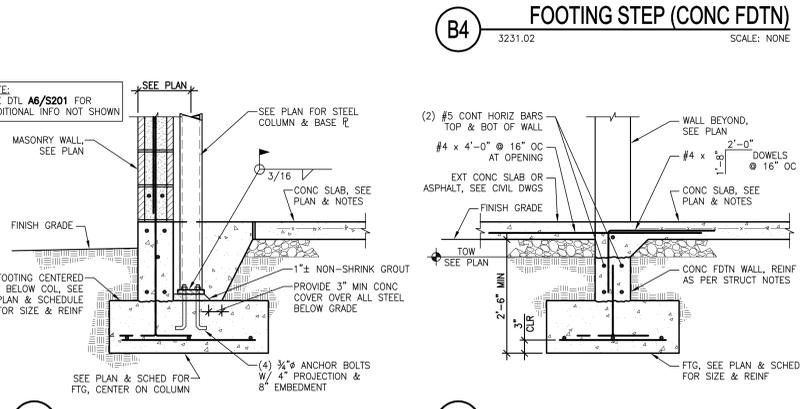
B5 3747_01 Reinforcing Lap Splice Schedule SCALE: NONE



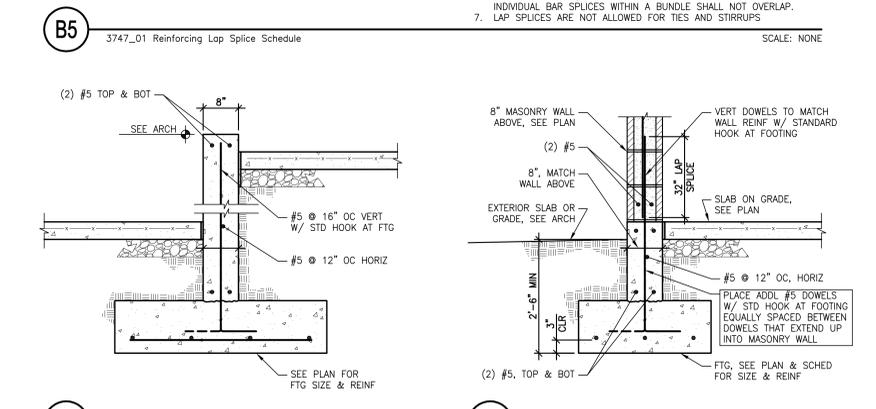
A1 SLAB STEP DETAIL
3677_05 C-SLBSTP SCALE: 3/4" = 1'-0"



A2 4331.01 SCALE: 3/4" = 1'-0"

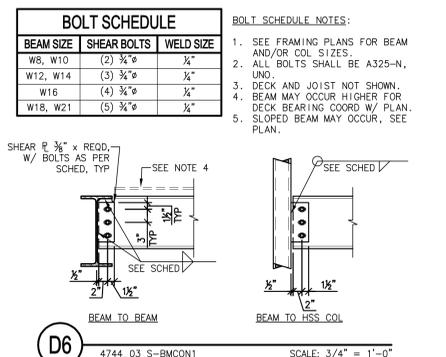
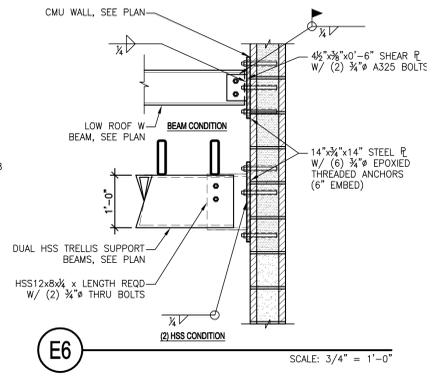
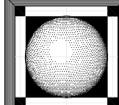


A3 3143_03 SCALE: 3/4" = 1'-0"



A4 3632.02 SCALE: 3/4" = 1'-0"
A5 SCALE: 3/4" = 1'-0"

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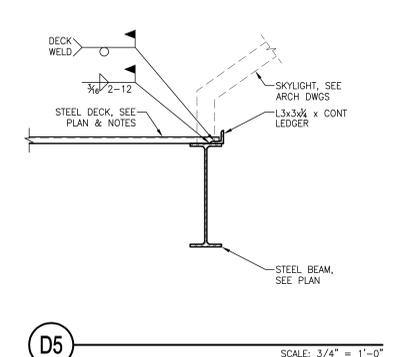
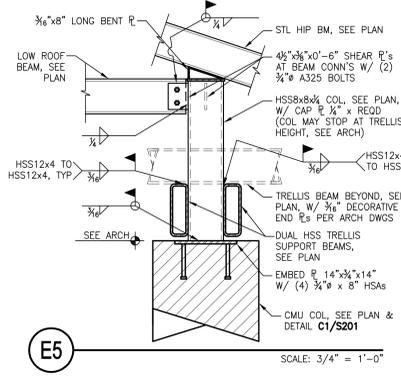


BOLT SCHEDULE

BEAM SIZE	SHEAR BOLTS	WELD SIZE
W8, W10	(2) 3/8"	1/2"
W12, W14	(3) 3/8"	3/4"
W16	(4) 3/8"	1/2"
W18, W21	(5) 3/8"	3/4"

BOLT SCHEDULE NOTES:

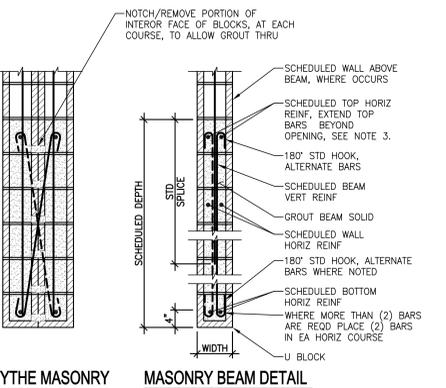
- SEE FRAMING PLANS FOR BEAM AND/OR COL SIZES.
- ALL BOLTS SHALL BE A325-N, UNO.
- DECK AND JOIST NOT SHOWN, BEAM MAY OCCUR HIGHER FOR DECK BEARING COORD W/ PLAN. SLOPED BEAM MAY OCCUR, SEE PLAN.



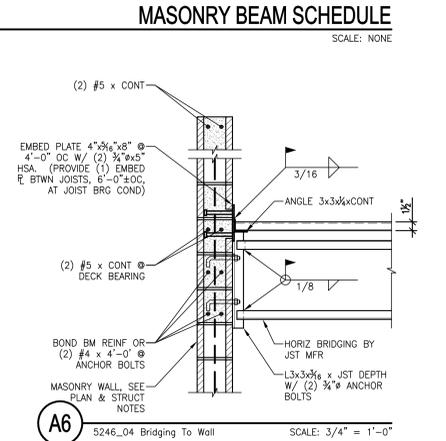
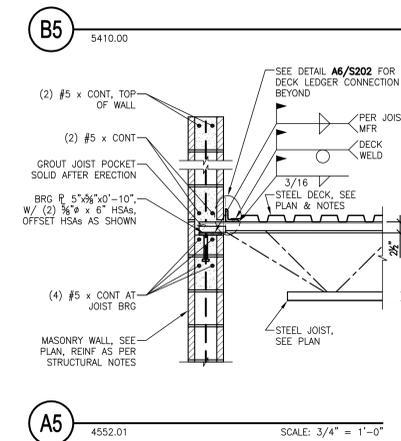
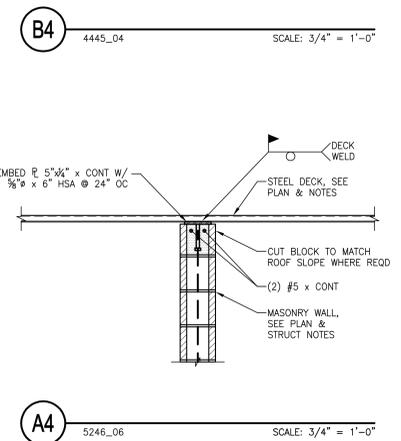
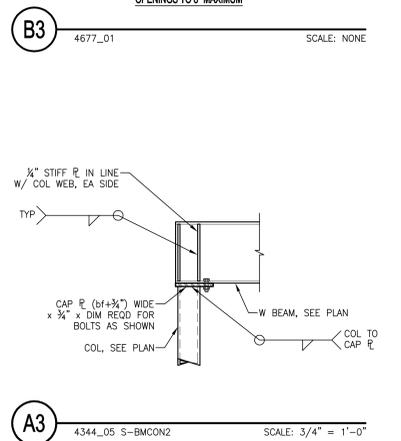
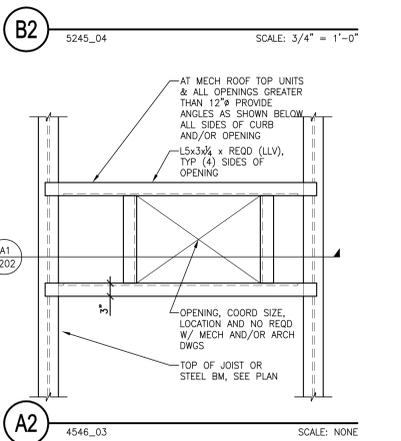
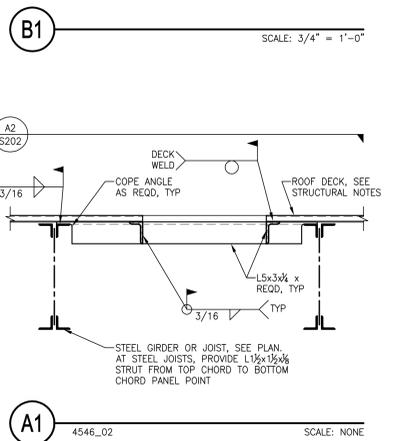
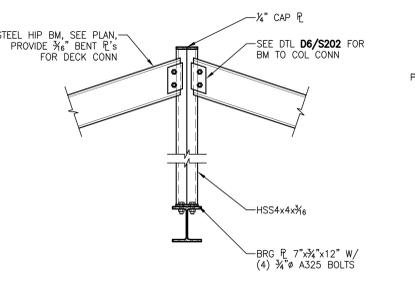
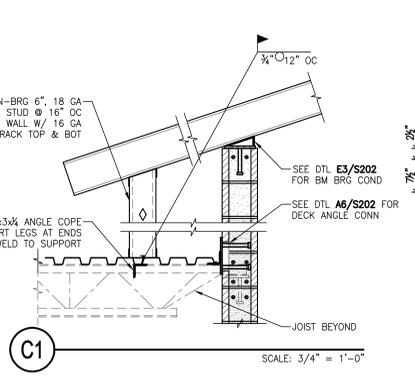
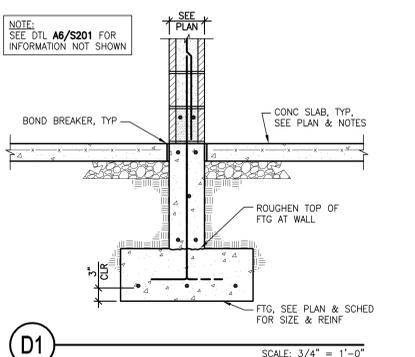
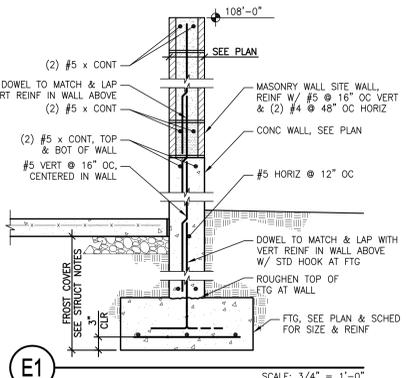
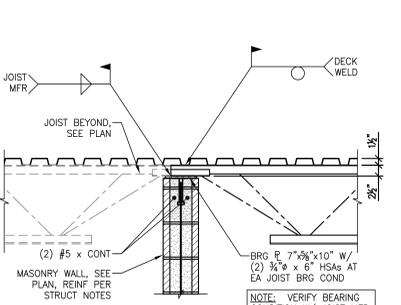
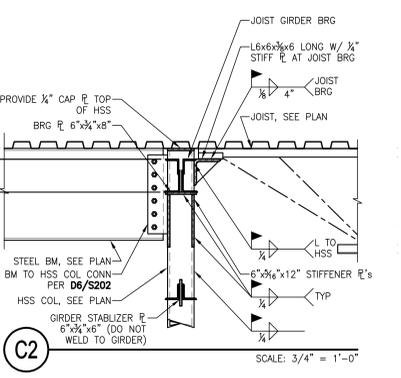
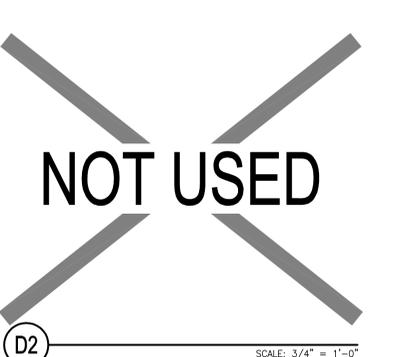
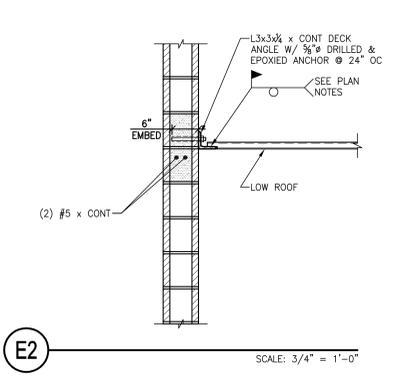
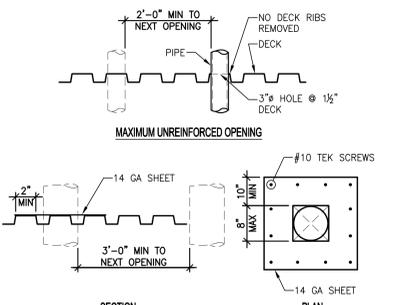
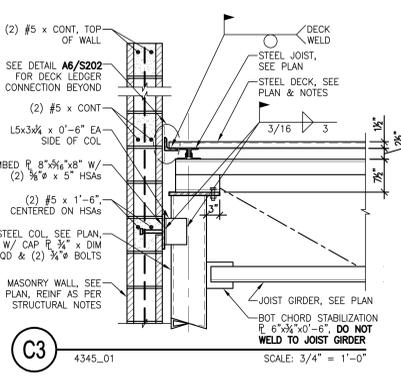
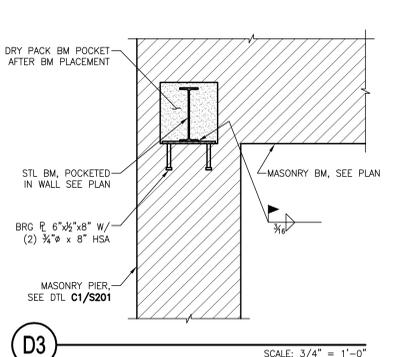
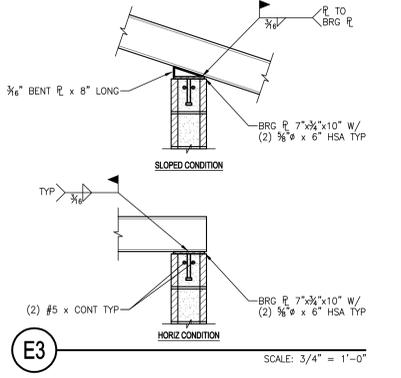
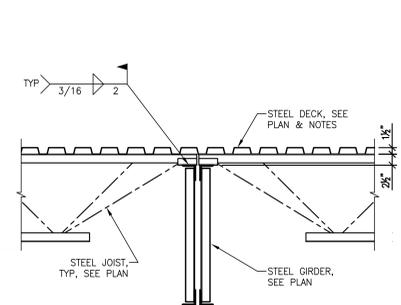
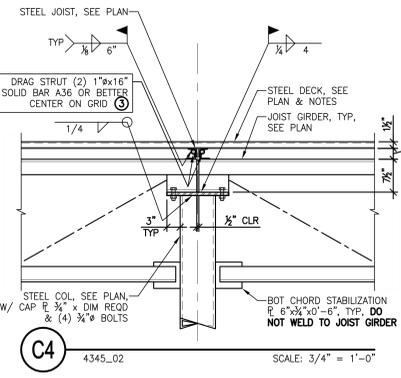
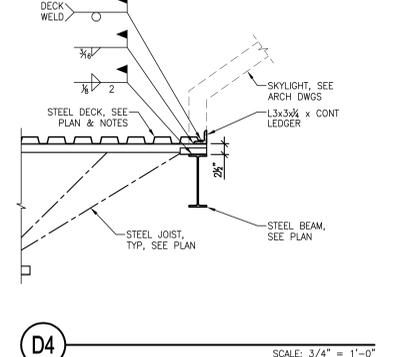
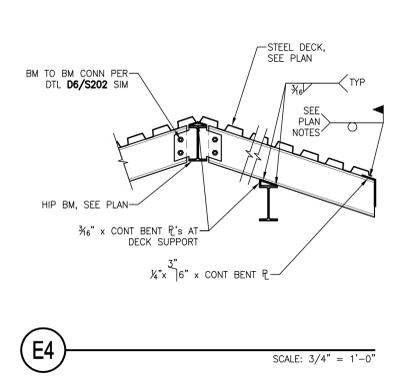
MASONRY BEAM SCHEDULE

MARK	WIDTH	DEPTH	REINFORCEMENT		NOTES
			BOTTOM HORIZONTAL	TOP HORIZONTAL	
MB-1	WALL	16"	(2) #5	-	MATCH WALL VERTS TYPICAL, UNO
MB-2	WALL	24"	(2) #5	(2) #5	#4 x 16"
MB-3	WALL	32"	(2) #5	(2) #5	#4 x 16"
MB-4	WALL	40"	(2) #5	(2) #5	#4 x 16"

- MASONRY BEAM NOTES:**
- VERTICAL WALL REINFORCEMENT (SIZE AND SPACING) SHALL BE USED, UNO. VERTICAL REINFORCEMENT ENDS WITH STD MASONRY HOOK AND LAP ABOVE BEAM. WHERE NO WALL OCCURS ABOVE BEAM OR LAP IS NOT POSSIBLE, PROVIDE 180° STD HOOK AT TOP.
 - GROUT BEAMS SOLID FOR DEPTH SHOWN IN SCHEDULE, PLUS AS PER DETAILS, STRUCTURAL NOTES AND/OR WALL SCHEDULE.
 - TOP BARS SHALL EXTEND THE GREATER OF SUPPORTING COL LENGTH, 24", OR 48 BAR STD LAP BEYOND FACE OF SUPPORTS AND BE SPLICED WHEN NECESSARY AT MID SPAN. BOTTOM BARS SHALL EXTEND 24" INTO SUPPORTS AND BE SPLICED OVER SUPPORTS WHEN NECESSARY. WHERE THE EXTENSIONS NOTED CANNOT BE PROVIDED, HOOK BARS INTO SUPPORTS.
 - GROUT SIDES OF OPENING SOLID 1" / FT OF OPENING WIDTH, MINIMUM ONE 8" CELL FOR UP TO 8'-0" SPAN, (2) CELLS FOR UP TO 16'-0" SPAN, ETC, UNO. PROVIDE ONE VERTICAL BAR IN EACH GROUTED CELL. SEE PLAN AND SCHEDULE WHERE SPECIAL MASONRY COLS OCCUR AT JAMBS, BELOW BEAM BEARING OR OTHER LOCATIONS.
 - AT MECHANICAL OR OTHER OPENINGS IN WALLS USE MASONRY BEAMS OF SIMILAR SIZE AND REINFORCING AS SHOWN IN THOSE WALLS FOR EQUIVALENT WIDTH OPENINGS, UNO. NO MECHANICAL OR OTHER OPENINGS SHALL BE PLACED BELOW BEAM BEARING OR THROUGH SOLID GROUTED MASONRY BEAM DEPTH.
 - NO DUCTS, OPENINGS, OR PENETRATIONS SHALL OCCUR THROUGH BEAMS UNLESS NOTED ON STRUCTURAL DRAWINGS.
 - MASONRY WALLS ABOVE BEAMS, WHERE OCCUR SHALL HAVE MINIMUM REINFORCING AS PER STRUCTURAL NOTES, UNO.
 - REINFORCING INDICATED IN BEAM SCHEDULE IS IN ADDITION TO STANDARD WALL HORIZONTAL AND VERTICAL REINFORCING.



MASONRY BEAM SCHEDULE



NOT USED