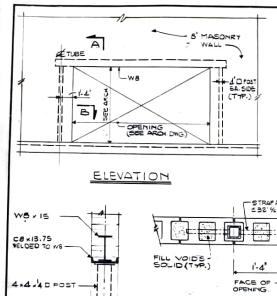
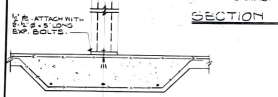


ELEVATION



SECTION B

SECTION A

TYP. LINTEL DETAIL FOR INTERIOR WALL OPNGS GREATER THAN 3'-0" LESS THAN 15'-0

SLABS-ON-GRADE

ALL EARTH SUPPORTED SLABS SHALL BE COMPACTED ON AT LEAST 6 INCHES OF GRAVEL BASE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY BY ASTM D1557. ALL UNDERLYING STRUCTURAL OR SELECT FILL SHALL ALSO BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY BY ASTM D1557.

THE FINAL SURFACE OF THE GRAVEL BASE SUBGRADE FOR SLABS-ON-GRADE SHALL BE PROOFROLLED WITH AT LEAST 4 PASSES OF AN APPROVED VIBRATORY PLATE OR VIBRATORY DRUM COMPACTOR IMMEDIATELY PRIOR TO PLACING VAPOR BARRIER.

ALL SLABS ON GROUND SHALL BE 4" THICK AT THE OFFICE AREA AND 6" THICK AT THE WORK AREA WITH WWF 6 X 6 - W2.9 X W2.9 UNLESS OTHERWISE NOTED. LAP MESH 8" AT EDGES AND ENDS AND PROVIDE ADDITIONAL REINFORCING WHERE SHOWN ON DRAWINGS. PLACE WELDED WIRE FABRIC 2" FROM TOP OF SLAB.

BACKFILL

ALL FOUNDATION AND WALL BACKFILL NEEDED TO ESTABLISH FINAL GRADES SHALL CONSIST OF STRUCTURAL FILL INSIDE BUILDING AREAS AND SELECT FILL OUTSIDE OF BUILDING AREAS. BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY INSIDE BUILDING AREAS AND 90% OF MAXIMUM DRY DENSITY OUTSIDE OF BUILDINGS IN AREAS OF GENERAL LANDSCAPING. MAXIMUM DRY DENSITY TO BE DETERMINED BY ASTM D1557.

REFER TO EARTHWORK SECTION OF CONTRACT SPECIFICATIONS FOR COMPLETE REQUIREMENTS.

CONCRETE AND FORMWORK

CONCRETE STRENGTHS SHALL BE AS FOLLOWS:

FOOTING, PIERS, WALLS, RETAINING WALLS, CONCRETE TOPPING ON PRECAST & SLAB ON GROUND OTHER THAN MENTIONED BELOW.	3,000 PSI CONCRETE (WEIGHT 150 LBS., PER CUBIC FOOT.)
CONCRETE FILL ON METAL FORMS.	3500 PSI CONCRETE (WEIGHT 150 LBS.& 115 LBS PER CUBIC FOOT (SEE PLANS)
SLABS ON GROUND FOR MAILING PLATFORMS RAMPS, MAILING VESTIBULES AND STORAGE AREAS SHALL BE STEEL TROWELED WITH A LIGHT BROOM FINISH.	4000 PSI CONCRETE (WEIGHT 150 LBS. PER CUBIC FOOT).

CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE AS FOLLOWS:

FOOTINGS:	3" CLEAR, BOTTOM AND SIDES
WALLS:	2" CLEAR OUTSIDE FACE
PIERS:	3" CLEAR TO TIES

ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT WHERE A DIFFERENT DETAIL IS SHOWN.

PROVIDE CONSTRUCTION JOINTS IN FOUNDATION WALLS WHERE SHOWN ON DRAWINGS. ADDITIONAL JOINTS MAY BE INSTALLED AS NECESSARY WHERE APPROVED BY THE CONTRACTING OFFICER. ALLOW 48 HOURS TO ELAPSE BETWEEN ADJOINING POURS.

REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL, CONFORMING TO A.S.T.M. A615 GRADE 60. ALL BAR DETAILING AND REINFORCING TO BE FURNISHED SHALL CONFORM TO TYPICAL DETAILS IN THE LATEST A.C.I. STANDARD 315 DETAILING MANUAL, EXCEPT AS OTHERWISE SHOWN, NOTED OR SPECIFIED.

ALL CONTINUOUS VERTICAL OR HORIZONTAL BARS IN FOOTINGS, FOUNDATION WALLS, BEAMS, JOISTS AND OTHER CONCRETE SHALL BE LAP SPLICED, WHERE NECESSARY OR DESIRABLE, BY WIRING TOGETHER IN CONTACT. LENGTH OF ALL LAPS SHALL BE AS SCHEDULED OR SHOWN MINIMUM WHICHEVER IS GREATER, UNLESS OTHERWISE SHOWN OR NOTED.

ALL CONCRETE WALLS, UNLESS OTHERWISE SHOWN, SHALL HAVE THE FOLLOWING MINIMUM AMOUNT OF REINFORCING: 8" WALLS - #4 @ 18" O.C. EACH WAY, EACH FACE; 10" WALLS - #4 @ 16" O.C.E.W.E.F. AND 12" WALLS - #4 @ 18" O.C.E.W.W.F.; ALL WITH 2 #6 CONTINUOUS BARS HORIZONTAL AT THE TOP AND BOTTOM.

THICKNESS AND REINFORCEMENT OF SLABS ON GROUND SHALL BE AS NOTED ON THE DRAWINGS. WHERE WELDED WIRE FABRIC IS NOTED, LAP ONE SPACE PLUS 2" AT EDGES AND ENDS AND PROVIDE ADDITIONAL REINFORCING WHERE SHOWN ON DRAWINGS. PLACE MESH 2" FROM TOP OF SLAB.

PROVIDE ADEQUATE BOLSTERS, HI-CHAIRS, SUPPORT BARS, ETC., TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS. PROVIDE CONTINUOUS #4 SPACER BARS IN WALLS AND SLABS TO SUPPORT DOWELS.

FOR LOAD BEARING CMU WALL SEE DETAIL ON THIS DWG.

STRUCTURAL STEEL

FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

STRUCTURAL STEEL PIPE AND PLATE SHALL BE A572, GRADE 5.; STRUCTURAL STEEL TUBING SHALL BE A500, GRADE B.

PROVIDE WELDED MOMENT CONNECTIONS WHERE SHOWN AND AS DETAILED ON THE DRAWINGS.

ALL FULL PENETRATION WELDS SHALL BE PROVIDED WITH BACKUP BARS UNLESS SHOWN OTHERWISE. WHERE BACK WELDS ARE NOT SHOWN, BACK GOUGE ROOTS OF JOINTS BEFORE WELDING OTHER SIDE.

FRAME CONNECTIONS SHALL BE STANDARD DOUBLE ANGLE SHEAR CONNECTIONS. ALL BOLTS SHALL BE 3/4" DIA. ASTM 325. THE MINIMUM NUMBER OF VERTICAL ROWS OF BOLTS SHALL BE 10 FOR 36" BEAMS, 8 FOR 33" BEAMS, 8 FOR 30" BEAMS, 7 FOR 27" BEAMS, 6 FOR 24" BEAMS, 5 FOR 21" BEAMS, 4 FOR 18" AND 16" BEAMS, 3 FOR 14" AND 12" BEAMS, 2 FOR 10", 8" AND 6" BEAMS EXCEPT AS OTHERWISE NOTED.

SHOP CONNECTIONS MAY BE WELDED UNLESS OTHERWISE INDICATED. WELDS SHALL BE DESIGNED TO BE FULLY EQUIVALENT IN STRENGTH TO BOLTED CONNECTIONS.

MINIMUM WELDS, WHERE NOT SHOWN ON DRAWINGS, SHALL BE 1/4" FILLET ALL AROUND. FRAME PLATE SIZE WHERE NOT SHOWN SHALL BE 3/8"

THE CONTRACTOR SHALL ERECT AND MAINTAIN TEMPORARY BRACING TO INSURE THE ALIGNMENT AND STABILITY OF THE STRUCTURE DURING ERECTION UNTIL PERMANENT CONNECTIONS HAVE BEEN COMPLETED.

STRUCTURAL FRAMING PLANS AND DETAILS ARE NOT INTENDED TO COVER ALL STEEL REQUIRED FOR A COMPLETE JOB. ARCHITECTURAL DRAWINGS SHOW MISCELLANEOUS METAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: CLIPS, BRACKETS, INSERTS, PLATE OR ANGLE SLAB CLOSURES, CEILING AND EQUIPMENT BRACES, RAILING AND STAIRS. ALSO SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR PIPE, DUCT AND EQUIPMENT BRACES AND SUPPORTS. THE CONTRACTOR SHALL COORDINATE ALL CLEARANCES, ATTACHMENT, AND ERECTION REQUIREMENTS.

PROVIDE 5/8" MINIMUM DIAMETER HOLES AT 2'-6" O.C. IN STEEL WHEREVER REQUIRED FOR ATTACHMENT FOR WOOD BLOCKING.

MISCELLANEOUS

LIVE LOADS

SNOW LOADS	35 POUNDS PER SQUARE FOOT UNIFORM LOAD OR DRIFTED SNOW, PER NEW YORK STATE BUILDING CODE - LATEST EDITION
WIND LOADS	15 POUNDS PER SQUARE FOOT.
MECHANICAL MEZZANINE	150 POUNDS PER SQUARE FOOT.
L.O.G.	25 POUNDS PER SQUARE FOOT.

OPEN WEB STEEL JOISTS AND JOIST GIRDERS

PRODUCES OF OPEN WEB JOISTS AND JOIST GIRDERS SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE.

PROVIDE STEEL SHIMS ON JOISTS AND JOIST GIRDER SHOES AS REQUIRED, TO AVOID POINT LOADS ON SUPPORTS.

ALL OPEN WEB STEEL JOISTS AND JOIST GIRDERS INCLUDING ANCHORAGE AND BRIDGING, SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE CURRENT ISSUE OF THE "STEEL JOIST INSTITUTE SPECIFICATION FOR K-SERIES, LH SERIES JOISTS AND JOIST GIRDERS".

UNLESS OTHERWISE SHOWN, JOISTS SHALL BE FIELD-WELDED TO THE GIRDERS.

DRILLING OR PINCHING HOLES IN JOIST MEMBERS WILL NOT BE ALLOWED.

ALL EQUIPMENT HANGING FROM JOISTS SHALL BE SUPPORTED AT PANEL POINTS ONLY. SEE TYPICAL DETAIL FOR WEIGHT RESTRICTIONS.

BOTTOM CHORD EXTENSIONS SHALL BE PROVIDED FOR ALL JOISTS WHERE INDICATED AND WELDED TO 1" X 1" X 1/4" CLIP ANGLES ON SUPPORTS.

SPECIAL JOISTS, MARKED "32 LB MARK" AND "28 # MARK" SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE CURRENT ISSUE OF THE "STEEL JOIST INSTITUTE SPECIFICATION" FOR THE LOADS INDICATED ON THE DRAWINGS.

METAL DECK

DESIGN OF DECK UNIT SHALL CONFORM TO REQUIREMENTS OF "STRUCTURAL PERFORMANCE OF THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE, LATEST EDITION.

METAL DECK FOR ROOF SHALL BE 1 1/2" PAINTED 18 GAUGE STEEL WITH I MIN = 0.337 IN^4 x 3 MIN. 0.180 IN

METAL DECK FOR MEZZ. & MECH. ROOM SHALL BE 3" DEEP. 20 GAUGE STEEL WITH I MIN = 0.480 IN^4 x 5 MIN = 0.832 IN^4.

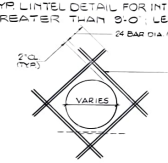
METAL DECKING SHALL BE PUDDLE WELDED WITH WELDING WASHERS OR STUDDED AT EVERY SUPPORT AT 12" O.C. SIDE LAPS SHALL BE MECHANICALLY FASTENED TOGETHER AT INTERVALS NOT EXCEEDING 36 INCHES OR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED PRACTICE, WHICHEVER IS LESS.

AT SECTIONS WHERE DECK STIFFNESS PREVENTS THE WARPING OF THE DECK, THE DECK MAY BE PLACED IN A SINGLE SPAN. OTHERWISE STEEL DECK SHALL BE DETAILED FOR A MINIMUM OF THREE SPANS.

CODES

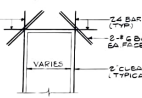
NEW YORK STATE BUILDING CODE- LATEST EDITION

LIFE SAFETY CODE (N.F.P.A., 1976); AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)

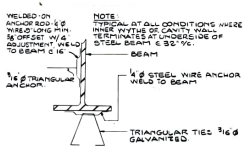


CIRCULAR

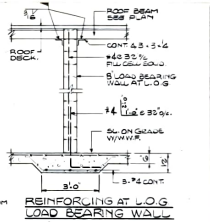
TYPICAL OPENING REINFORCING DETAILS



RECTANGULAR



TYPICAL CONNECTION TO MASONRY WALL

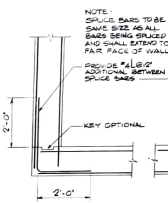


REINFORCING AT L.O.G LOAD BEARING WALL

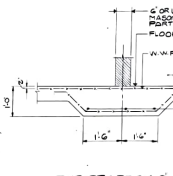
LINTEL SCHEDULE

	4" MASONRY			6" MASONRY			8" MASONRY			10" MASONRY			12" MASONRY		
OPNG WIDTH	HEIGHT	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE
2'-0	4'-0	1	L3½x3½x5/16	1	L3½x3½x5/16	2	L3½x3½x5/16	2	L4x4x5/16	2	L4x4x5/16	3	L4x4x5/16	3	L4x4x5/16
2'-6	4'-6	1	"	1	"	2	"	2	"	2	"	3	"	3	"
3'-0	4'-0	1	"	1	"	2	"	2	"	2	"	3	"	3	"
4'-0	5'-0	1	"	1	"	2	"	2	"	2	"	3	"	3	"
4'-6	5'-6	1	"	1	"	2	"	2	"	2	"	3	"	3	"
5'-0	5'-0	1	"	1	"	2	"	2	"	2	"	3	"	3	"
5'-6	5'-6	1	"	1	"	2	"	2	"	2	"	3	"	3	"
6'-0	6'-0	1	L4x3½x5/16	1	"	2	"	2	"	2	"	3	"	3	"
6'-6	6'-6	1	"	1	"	2	"	2	"	2	"	3	"	3	"
7'-0	7'-0	1	"	1	"	2	"	2	"	2	"	3	"	3	"
7'-6	7'-6	1	"	1	"	2	"	2	"	2	"	3	"	3	"
8'-0	7'-6	1	"	1	"	2	"	2	"	2	"	3	"	3	"
8'-6	8'-0	1	"	1	"	2	"	2	"	2	"	3	"	3	"
9'-0	8'-0	1	"	1	"	2	"	2	"	2	"	3	"	3	"
9'-6	8'-0	1	"	1	"	2	"	2	"	2	"	3	"	3	"
10'-0	8'-0	1	"	1	"	2	"	2	"	2	"	3	"	3	"

NOTE: FIRST DIMENSION OF ANGLE DENOTES THE VERT LEG.



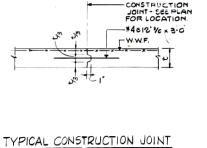
PLAN @ CORNER



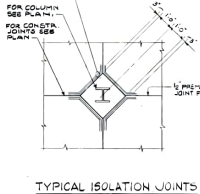
PLAN @ INTERSECTION

CONCRETE WALL REINFORCING BAR SPLICE DETAIL

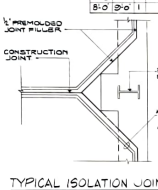
TYP. GRADE BM. @ LARGER MASONRY PARTITIONS



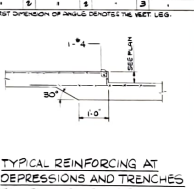
TYPICAL CONSTRUCTION JOINT DETAIL FOR SLABS ON GRADE



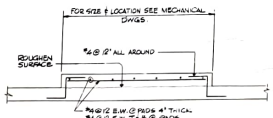
TYPICAL ISOLATION JOINTS FOR INTERIOR COLUMNS



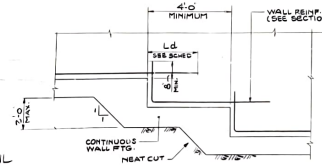
TYPICAL ISOLATION JOINTS FOR EXTERIOR COLUMNS



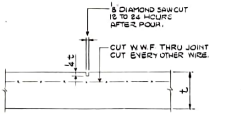
TYPICAL REINFORCING AT DEPRESSIONS AND TRENCHES FOR SLAB ON GRADE.



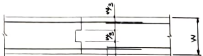
TYPICAL MECHANICAL EQUIPMENT PAD DETAIL



STEPPED WALL FOOTING



TYPICAL CONTROL JOINT



FOUNDATION WALL CONSTRUCTION JOINT

LAP SPLICE SCHEDULE

BAR SIZE	LENGTH (Ld)
#3	12 INCHES
#4	12 INCHES
#5	15 INCHES
#6	18 INCHES
#7	24 INCHES

UNITED STATES POSTAL SERVICE

General Mail Facility
Mid-Hudson

Newburgh, New York

UNITED STATES POSTAL SERVICE U.S.MAIL

Facilities Service Center
Windsor, CT.

USPS Proj # 61Q004

James Stewart Polshek and Partners
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Leroy Callender/P.C.
Structural Engineer

Syska & Hennessy
Mechanical Engineer

Joseph A. Sadlak
Mechanization Engineer

Quennell Rothschild Associates
Landscape Architect

Notes

No.	Description	Check	Date
	AS BUILT		5.17.91

Revisions

Date 4-1-88	Drawn NG
Arch Job # 8634	Check CL

Graphic Scale

Drawing Title

GENERAL NOTES & TYPICAL DETAILS

Drawing No. S-001