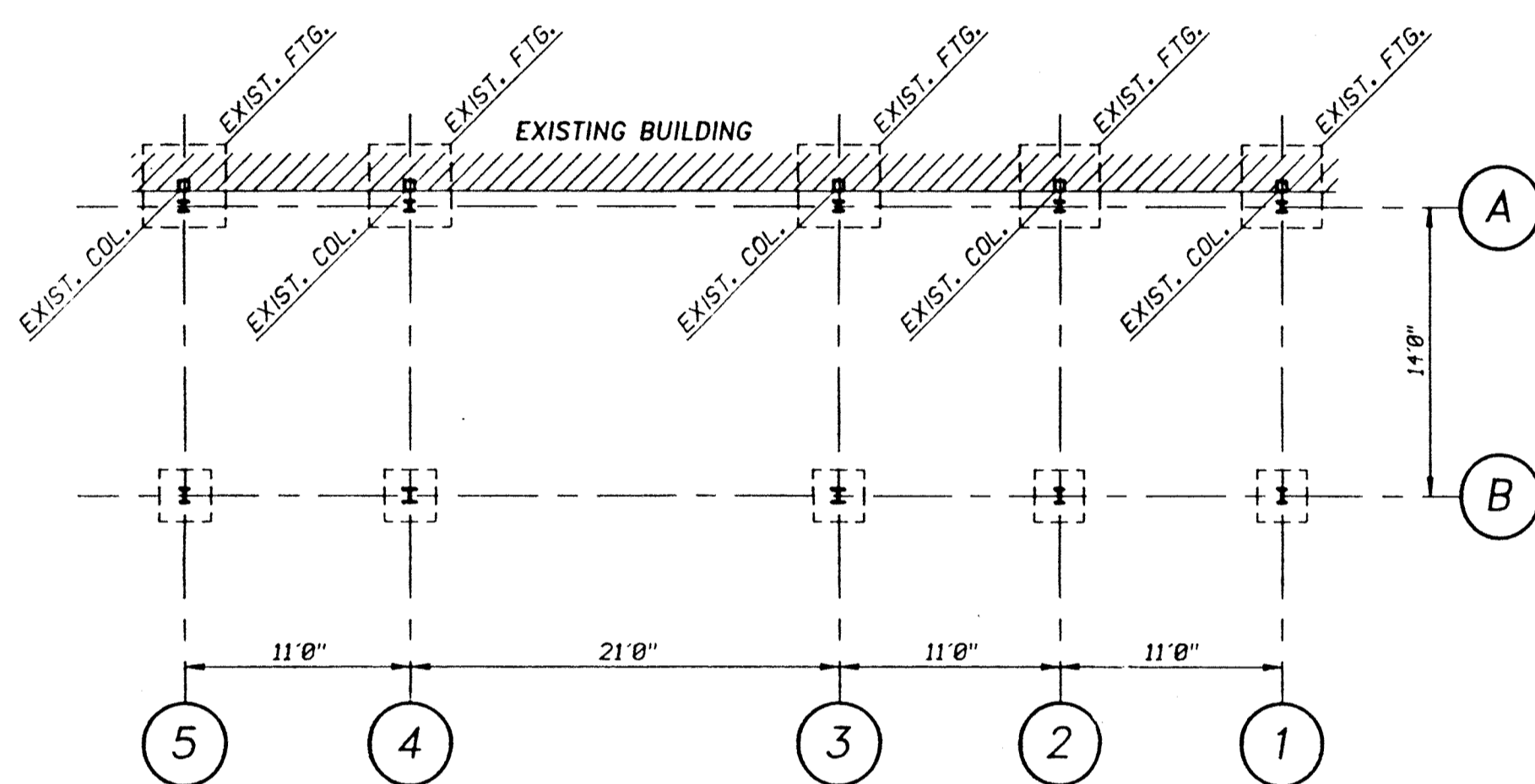


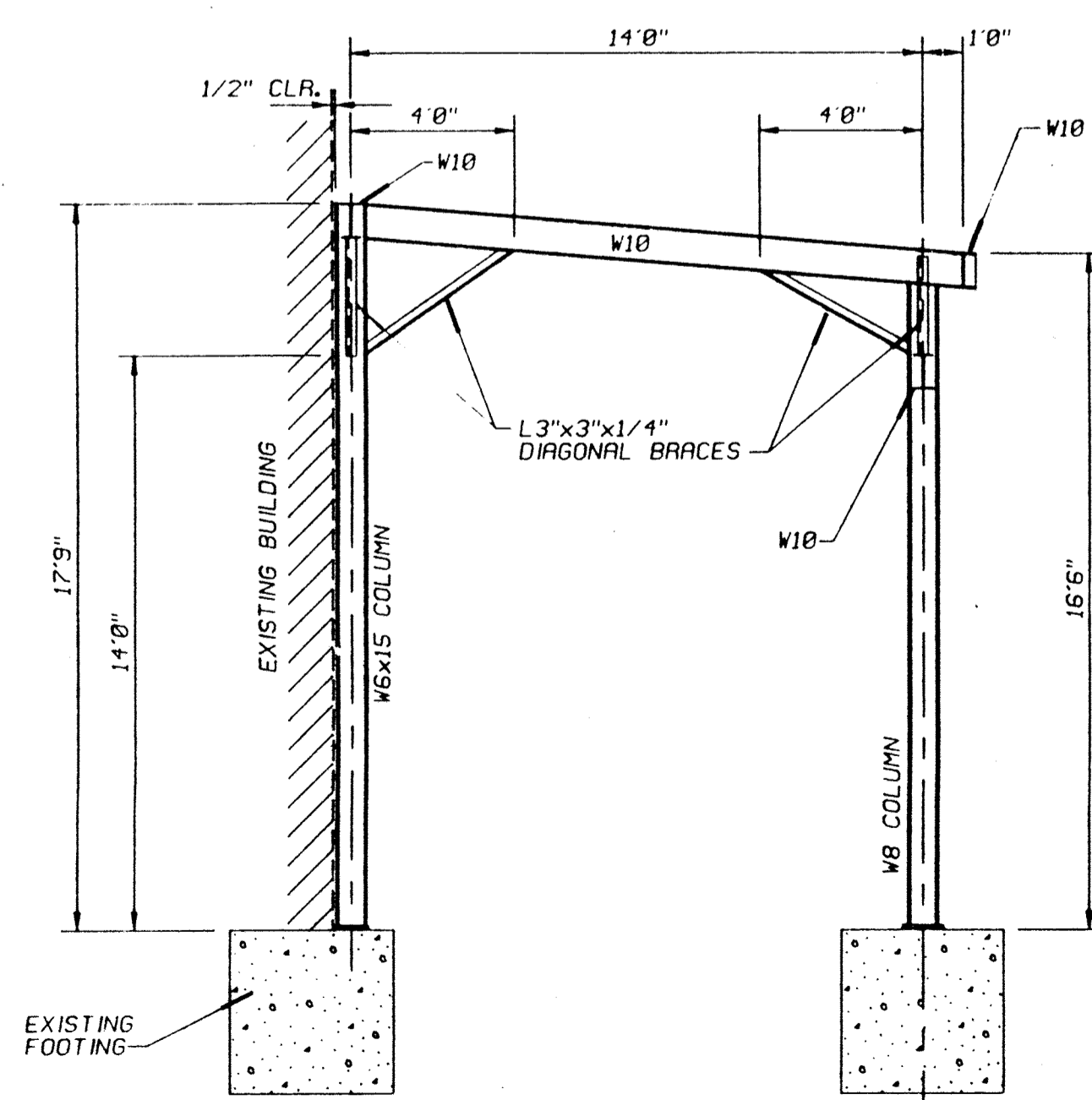
CANOPY FRAMING PLAN

SCALE: 1/8" = 1'0"



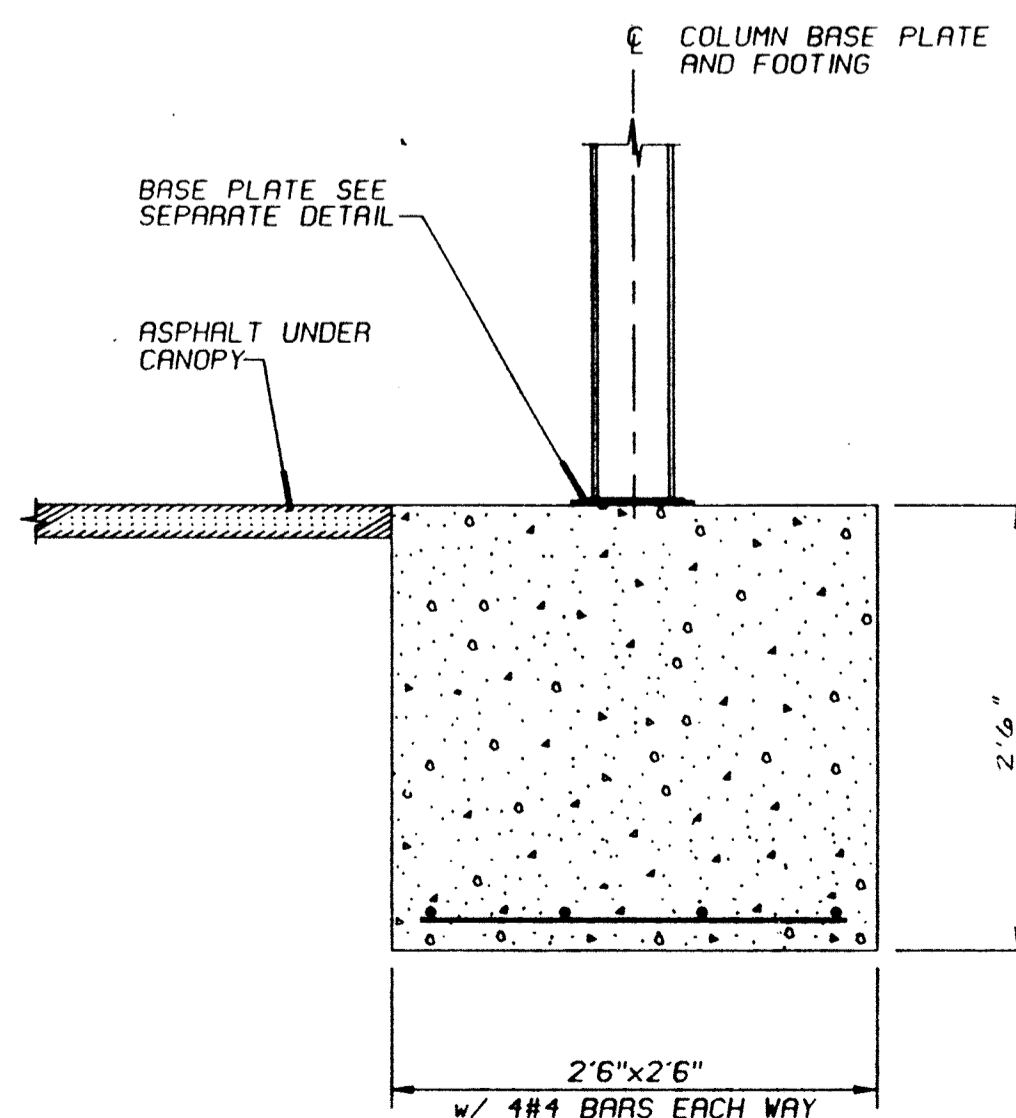
CANOPY FOUNDATION PLAN

SCALE: 1/8" = 1'0"

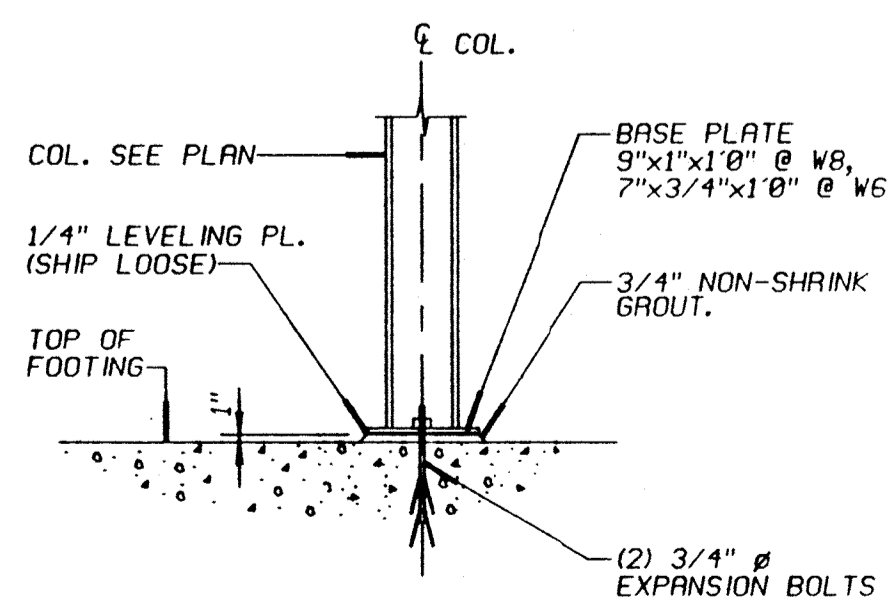


FRAME ELEVATION

SCALE: 1/4" = 1'0"



TYPICAL COLUMN DETAIL



TYPICAL COLUMN BASE PLATE DETAIL

GENERAL NOTES:

GENERAL: ALL NOTES ARE FOR SUPPLEMENTING THE PLANS AND SPECIFICATIONS AND ARE IN NO WAY TO BE CONSIDERED AS EXCLUDING ANY ITEM IN THEM.

COORDINATION: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE STRUCTURAL DRAWINGS AND THEIR DIMENSIONS WITH OTHER DRAWINGS AND IF A CONFLICT EXISTS HE SHALL NOT CARE FOR THE AFFECTED WORK UNTIL THE ARCHITECT HAS RESOLVED THE CONFLICT.

CODE: DESIGN AND CONSTRUCTION TO BE IN ACCORD WITH THE BOCA CODE AND THE PARTICULAR CODES AS REFERENCED IN BOCA.

LIVE LOADS: THE STRUCTURE HAS BEEN DESIGNED FOR LIVE LOADS AS FOLLOWS:  
ROOF LOAD: 30 PSF

CONSTRUCTION SAFETY: LOADS GREATER THAN THE APPLICABLE DESIGN LOADS SHALL NOT BE PLACED ON THE STRUCTURE. PROVISIONS SHALL BE MADE FOR ADEQUATE BRACING AND SUPPORT OF ADJACENT CONSTRUCTION, UTILITIES AND EXCAVATIONS. JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

FOUNDATION: BEFORE PLACEMENT OF FILL, IT IS RECOMMENDED THAT THE SITE BE INSPECTED BY A SOILS ENGINEER FOR PROPER STRIPPING AND PREPARATION FOR RECEIVING THE FILL.

EXCAVATION FOR AND BEARING MATERIAL FOR FOUNDATIONS SHOULD BE SUPERVISED AND APPROVED BY A SOILS ENGINEER, REGISTERED IN THE STATE OF MARYLAND.

THE FOOTINGS SHALL BE EXCAVATED AFTER THE BUILDING AREAS HAVE BEEN PROPERLY PREPARED.

MATERIAL SATISFACTORY FOR CONTROLLED FILL AND BACKFILL MATERIALS AROUND AND ABOVE FOOTINGS SHALL INCLUDE CLEAN SOILS, SAND, GRAVEL AND GRANITE (GW, GC, SC, SW, BL & CL) WITH NO MORE THAN 15% PLASTIC CLAYS (FH, A, CH) OR HIGH SHRINK-SWELL SOILS. THE FILL MATERIALS SHALL BE FREE FROM TOPSOIL, ORGANIC CONTAMINATED SOIL AND ROCK FRAGMENTS HAVING A MAJOR DIMENSION GREATER THAN FOUR (4) INCHES AND SHALL CONTAIN NO ICE OR SNOW.

ALL FOOTINGS SHALL BE CARRIED DOWN A MINIMUM OF ONE FOOT INTO VIRGIN SOIL OR COMPACTED FILL OR AS DIRECTED BY THE SOILS ENGINEER AND, IF EXISTING, SHALL BE A MINIMUM OF 2'4" BELOW FINISHED EXTERIOR GRADE. FOOTINGS ARE DESIGNED FOR A SOIL BEARING CAPACITY OF 3,000 PSF. FOOTING ELEVATIONS HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND SHALL NOT BE TAKEN AS A WAIVER OF THESE REQUIREMENTS.

WATER, LOOSE SOIL AND SOIL SOFTENED BY WATER SHALL BE REMOVED FROM THE BOTTOM OF THE FOOTING EXCAVATIONS BEFORE PLACING CONCRETE.

FOOTING EXCAVATIONS SHALL NOT BE LEFT OPEN FOR LONG PERIODS. IT IS SUGGESTED THAT THE BOTTOM OF THE FOOTING EXCAVATIONS AND TRENCHES BE PROTECTED BY UNDERCUTTING AND PLACING THREE (3) INCHES OF A LEAN-MIX CONCRETE SLAB IMMEDIATELY UPON APPROVAL AND BEFORE REINFORCING STEEL IS DEPTH OF EXCAVATIONS BELOW ANY FOOTINGS SHALL NOT EXCEED 1/2 THE DISTANCE FROM THE NEAREST EDGE OF THAT FOOTING.

PROVISIONS MUST BE TAKEN TO PROTECT ALL CONCRETE WORK FROM FROST DAMAGE WITH SPECIAL ATTENTION PAID TO FOOTINGS AND OTHER CONCRETE ON GRADE PRIOR TO BACKFILLING AND ENCLOSING THE BUILDING.

CARE SHOULD BE TAKEN TO ASSURE THAT DURING PLACING OF CONCRETE FOOTINGS AND SLABS ON GRADE NO ORGANIC MATTER, SALTS, OR CLAYS ARE MIXED WITH THE CONCRETE.

COMPACTION: EACH LAYER OF FILL SHALL BE COMPACTED AT OPTIMUM MOISTURE CONTENT (PLUS OR MINUS 2%) TO NOT LESS THAN 98% OF MAXIMUM DRY DENSITY.

LOWER DEGREES OF COMPACTION MAY BE PERMITTED BY THE BUILDING OFFICIAL AFTER RECEIPT OF A REPORT FROM THE SOILS ENGINEER CERTIFYING THAT HE HAS INVESTIGATED THE SUBSOIL OF THE SITE, HAS TESTED REPRESENTATIVE FILL MATERIALS AND THAT IN HIS OPINION SUCH LOWER DEGREE OF COMPACTION WILL BE ADEQUATE FOR THE INTENDED USE OF THE FILL.

IN-PLACE FIELD DENSITY SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D-1557.

ALL FILLS SHALL BE PLACED IN APPROXIMATELY HORIZONTAL LAYERS, EACH LAYER HAVING A LOOSE THICKNESS OF NOT MORE THAN 8 INCHES.

NO FILL SHALL BE PLACED ON FROZEN GROUND.

CONCRETE: TO BE MIXED AND PLACED IN ACCORDANCE WITH THE CURRENT "AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". A COPY OF THIS CODE SHALL BE AVAILABLE ON THE PROJECT AT ALL TIMES.

ALL REINFORCED CONCRETE TO HAVE A COMPRESSIVE STRENGTH (f'c) OF 3000 PSI, UNLESS OTHERWISE NOTED.

ALL CONTINUOUS REINFORCING SHALL BE CONTINUOUS OR LAPPED AT ALL SPLICES, CORNERS AND INTERSECTIONS A MINIMUM OF 30 BAR DIAMETERS (U.N.O.).

PROVIDE SPACERS, CHAIRS, TIES AS REQUIRED AND NECESSARY FOR ASSEMBLING, PLACING AND SUPPORTING ALL REINFORCEMENT IN PROPER POSITION.

CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS GIVEN IN ACI-318.

REINFORCING STEEL: SHALL CONFORM TO ASTM SPECIFICATION A615, GRADE 60 FOR BARS AND ASTM SPECIFICATION A185 FOR WELDED WIRE FABRIC (WWF).

FABRICATION, INCLUDING ACCESSORIES, ALLOWANCE FOR CONCRETE PROTECTION AND MINIMUM AREA OF STEEL REQUIRED, TO BE IN ACCORDANCE WITH THE ACI BUILDING CODE AND MANUAL OF STANDARD PRACTICE.

STRUCTURAL STEEL: ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (A.I.S.C.) "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC CODE OF STANDARD PRACTICE.

STRUCTURAL STEEL, TO BE OF DOMESTIC ORIGIN, AND CONFORM TO ASTM A36.

ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS, ASTM A325 (OR WELDED EQUIVALENT) UNLESS OTHERWISE NOTED. SELECT CONNECTIONS TO SUPPORT 50% OF THE TOTAL UNIFORM LOAD CAPACITY IN BENDING FOR EACH GIVEN BEAM AND SPAN. BOLTING TO BE IN ACCORDANCE WITH RCSC SPECIFICATIONS. ANCHOR BOLTS SHALL BE ASTM A307.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SIGNED AND SEALED SHOP DRAWINGS IF THEY ARE REQUIRED BY THE GOVERNING BUILDING DEPARTMENT. THE SUPPLIER OF THE STRUCTURAL STEEL SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL STANDARD CONNECTIONS OTHER THAN STANDARD WILL BE DETAILED ON THE STRUCTURAL DRAWINGS.

THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION AND ERECTION ERRORS OR DEVIATIONS TO RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.

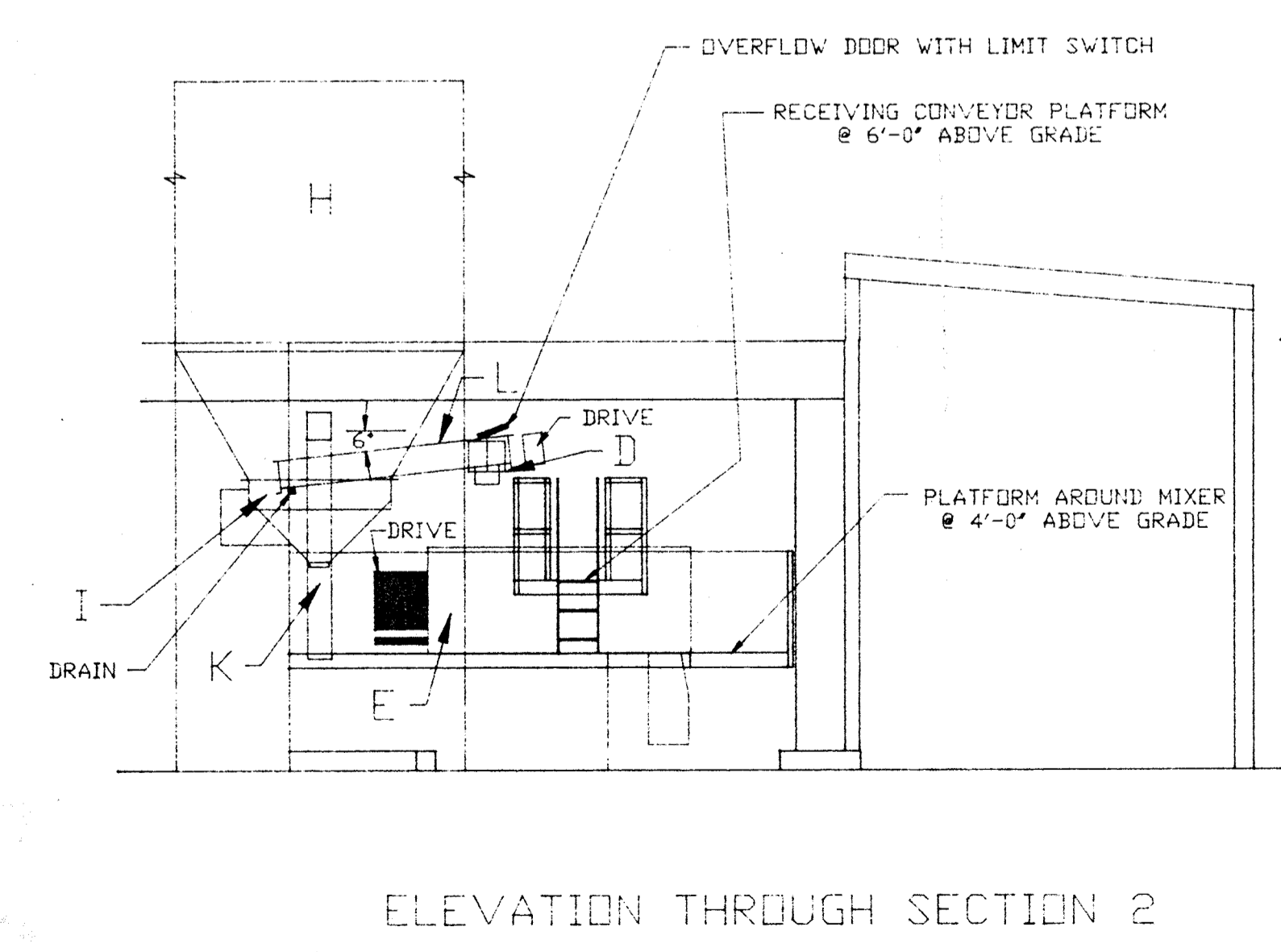
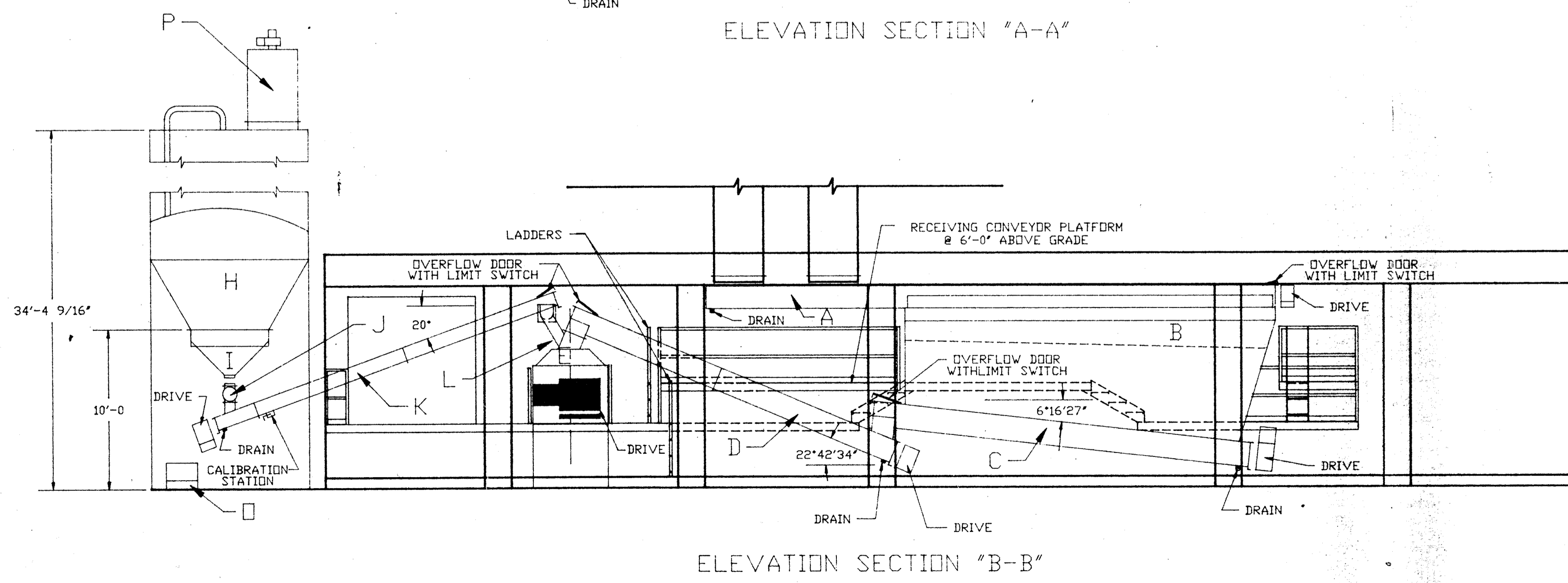
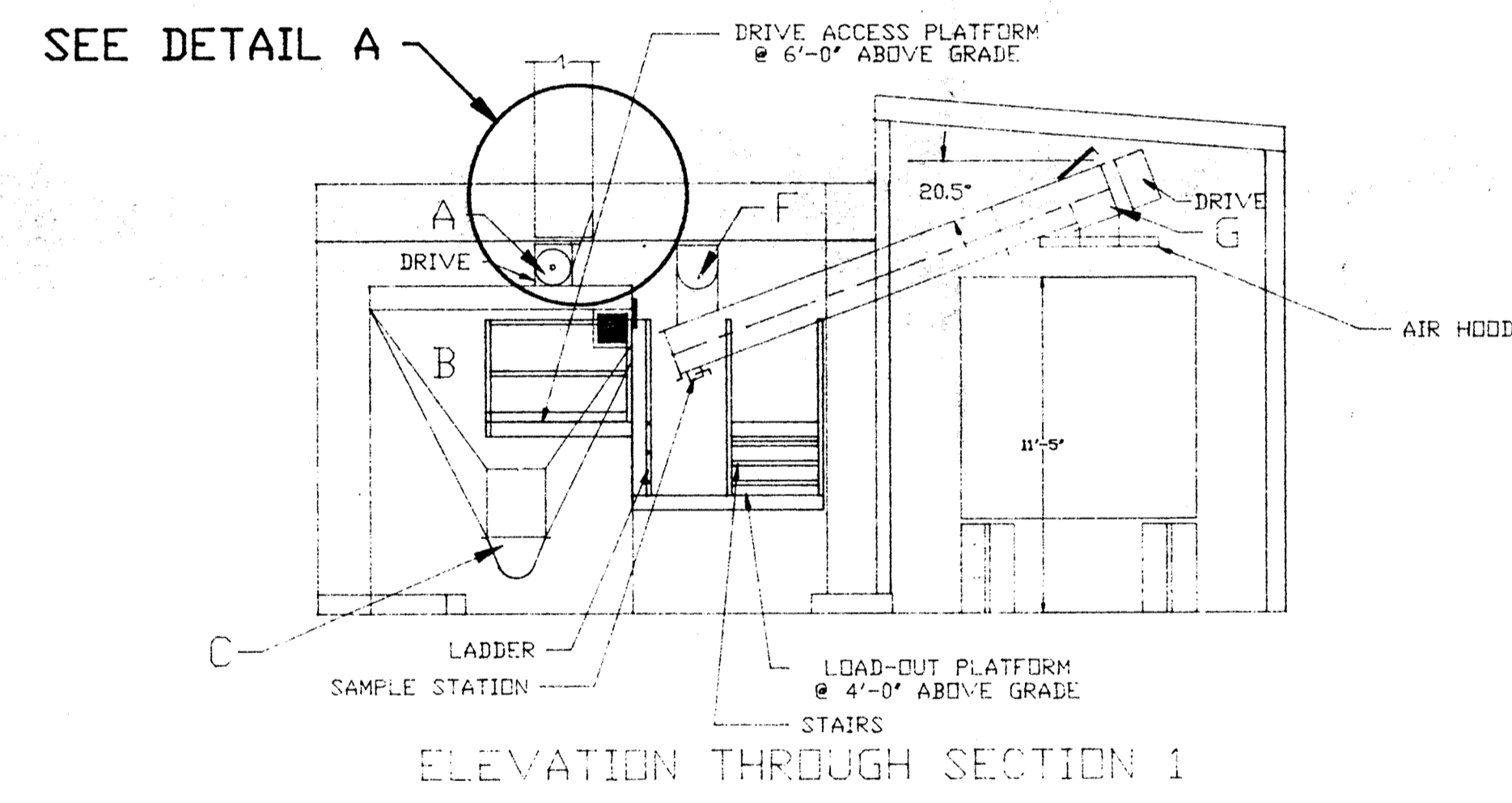
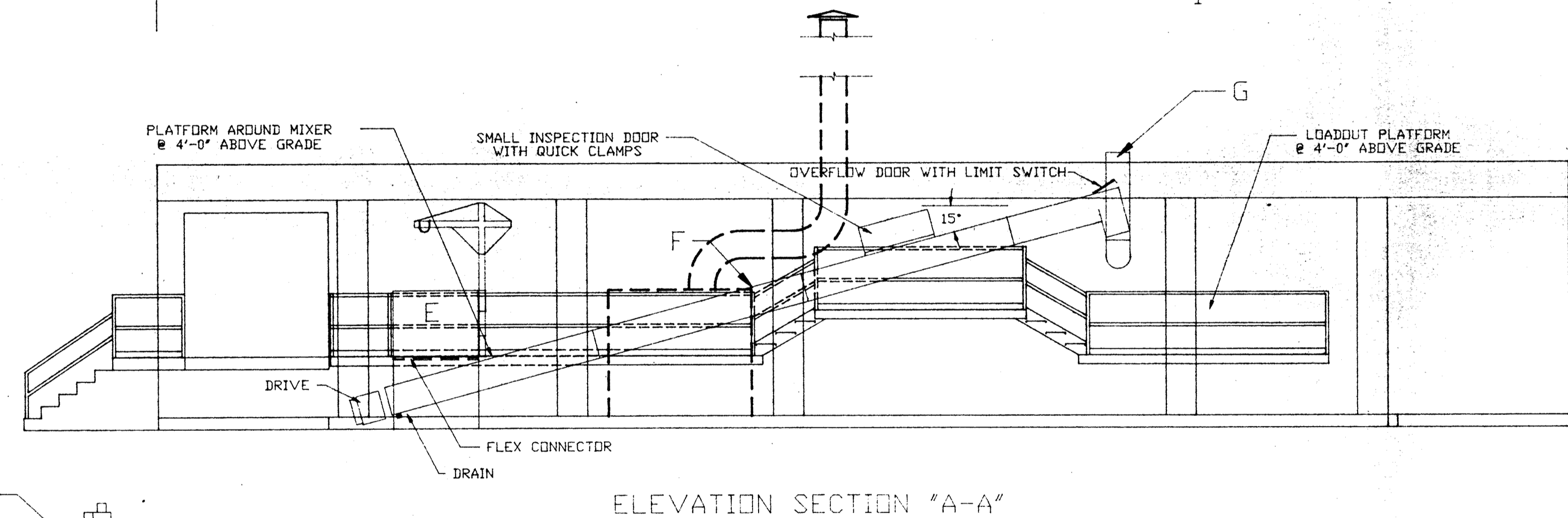
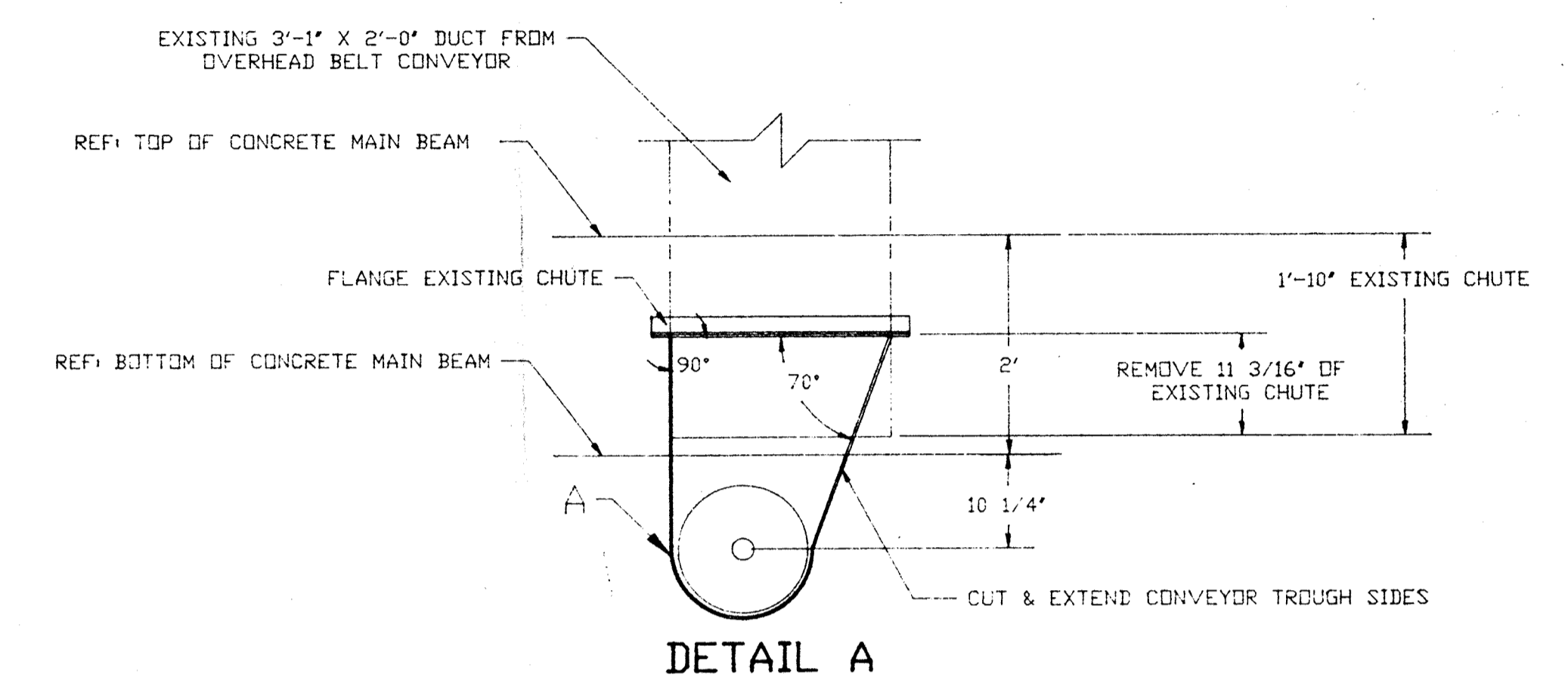
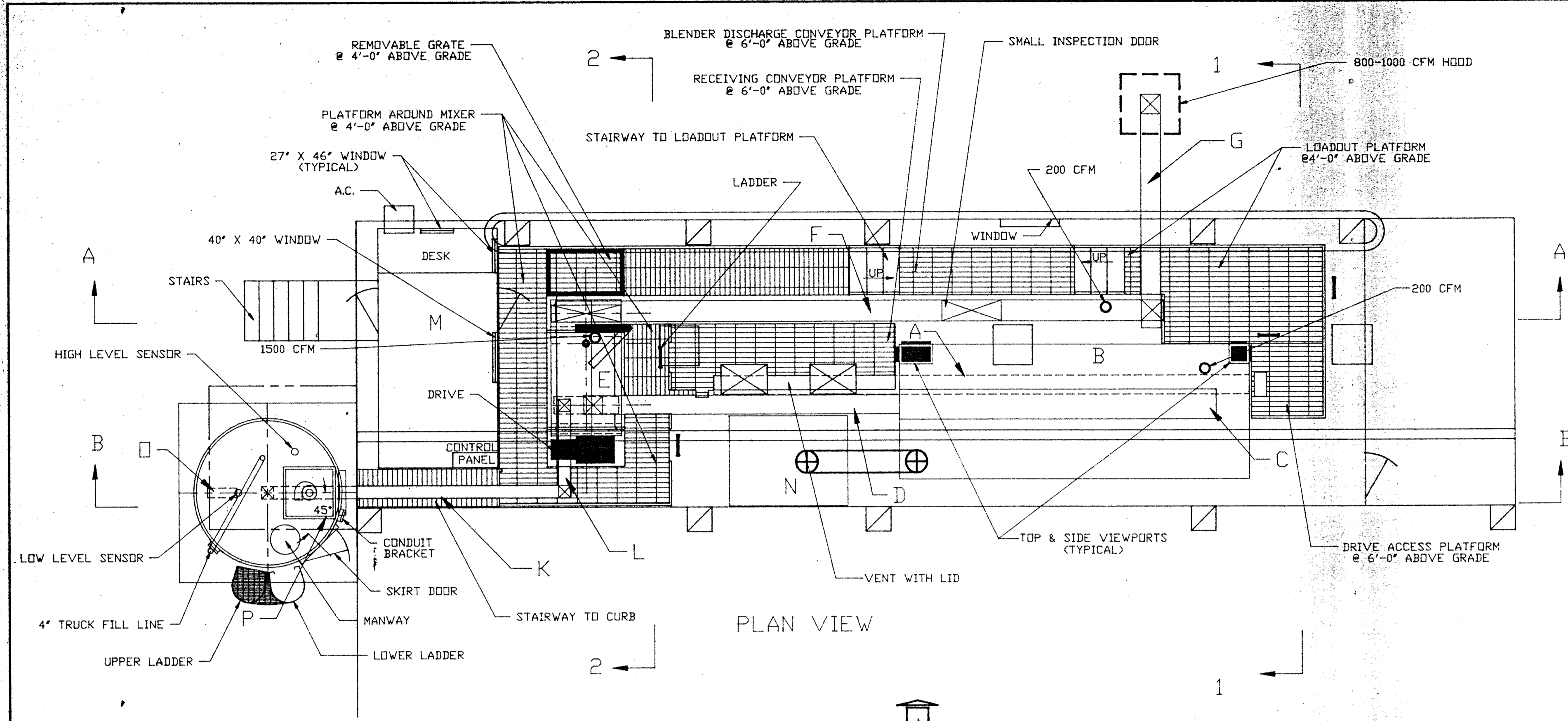
WELDING: ALL WELDING TO BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE AMERICAN WELDING SOCIETY (A.W.S.) AND AS INDICATED ON THE STRUCTURAL DRAWINGS. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES TO BE IN ACCORDANCE WITH THE A.I.S.C. SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING TO BE REPLACED OR ACCEPTABLY REINFORCED.



Project/Location: <b>BIO-GRO HOWARD COUNTY, MD.</b>			
Drawing: <b>CANOPY FOUNDATION &amp; FRAMING PLAN, ELEVATION, DETAILS &amp; GENERAL NOTES</b>			
Scale: AS NOTED	Date: 10/28/93	Designed By: P.A.B.	Drawn By: K.L.R.
		3422 Mitchellville Road Suite 202 Beltsville, Maryland 20715 ANNAP. (410)741-1781 WASH. (301)249-0974 FAX (301)249-0978	
PROJECT #:		93173	

EQUIPMENT LIST

A	RECEIVING CONVEYOR - 14" DIA. X 36' LONG	10 HP.
B	RECEIVING HOPPER 10 TON CAPACITY (APPROX.)	20 HP.
C	RECEIVING HOPPER DISCHARGE CONVEYOR - 14" DIA. X 24' LONG	20 HP.
D	BLENDER FEED CONVEYOR - 14" DIA. X 22' LONG	10 HP.
E	LEOPOLD BLENDER MODEL D-3100 - (BY OTHERS)	25 HP.
F	BLENDER DISCHARGE CONVEYOR - 16" DIA. X 42' LONG	15 HP.
G	LOAD-OUT SCREW CONVEYOR - 16" DIA. X 16' LONG	10 HP.
H	SILO 10 FT. DIA. 50 TON CAPACITY	
I	5" DIA. BIN ACTIVATOR	3 HP.
J	10" ROTOLOCK	1.5 HP.
K	LIME SILO DISCHARGE CONVEYOR - 9" DIA. X 22' LONG	5 HP.
L	BLENDER LIME FEED CONVEYOR - 9" DIA. X 8' LONG	5 HP.
M	OFFICE TRAILER 8' X 16'	60 AMP.
N	SCRUBBER BY OTHERS	5 HP.
O	AIR COMPRESSOR	5 HP.
P	SILCO FILTER AND FAN	2 HP.



To Jim W.  
from Mike R.  
Thanks

Messick & Gray  
Process Equipment  
Industrial and  
Commercial Design  
Services  
Steel Mill  
Fabrication  
Structural Fabrication  
Steel Subshops  
P.O. Box 150K Bridgetown, DE 19933  
302-337-8777 Fax: 302-337-8121

FOR BIO-GRO  
HOWARD COUNTY, MD.  
SCALE 3/16" = 1'-0" DRAWN BY P.D.  
DATE 7-9-93 DWG # HOWARD

REV.	DATE	REVISED	REV. BY	CKD. BY
	10-4-93			

PROPOSED PLAN & ELEVATIONS  
OF SOLID WASTE SYSTEM