

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

11/5/87
11/1/87

DES: J.G.S.
DRN: J.G.S.
CHK: J.G.S.
DATE: OCT. '87

SLUDGE OXIDATION BUILDING
SUPPORT SYSTEM
PLAN & DETAILS

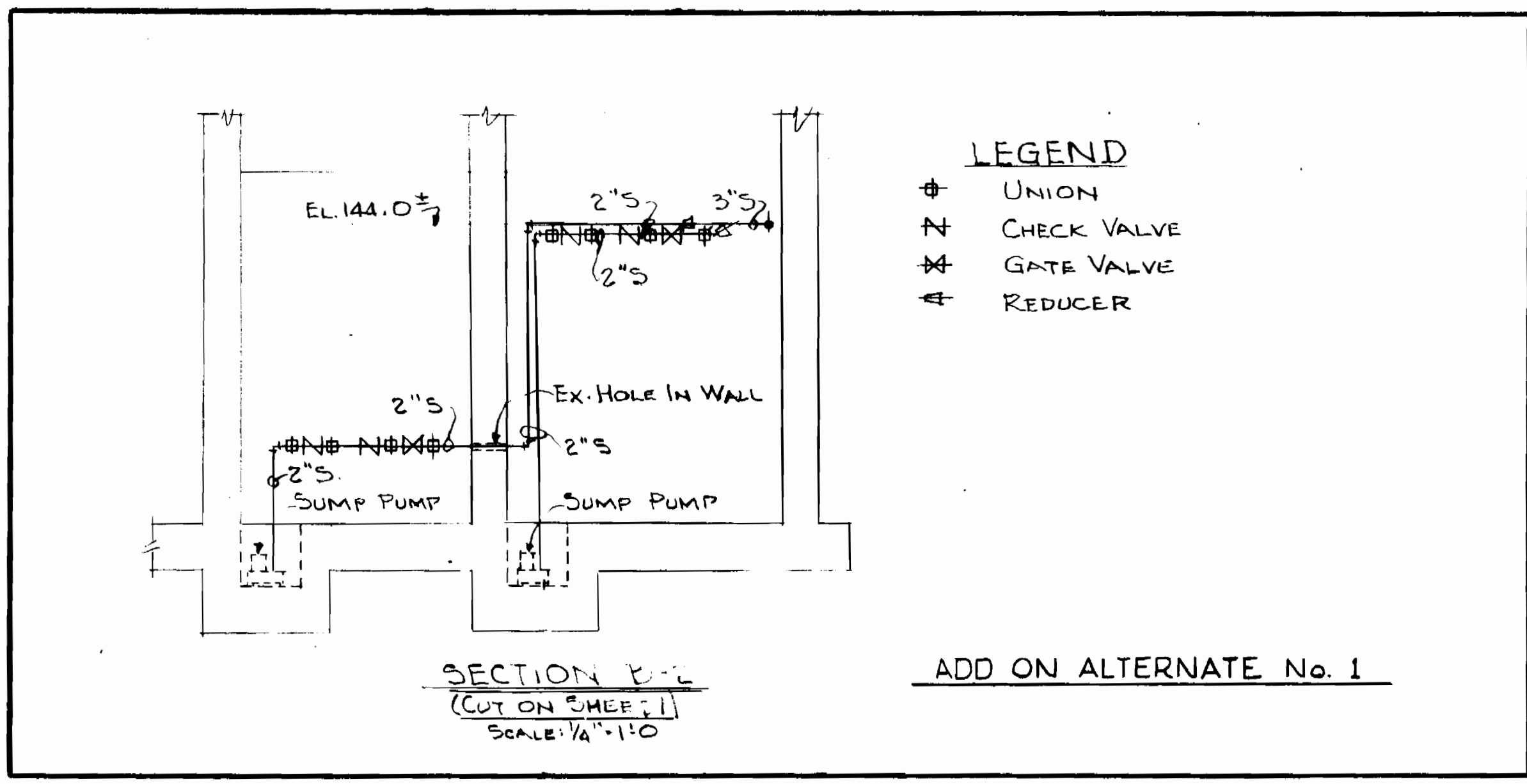
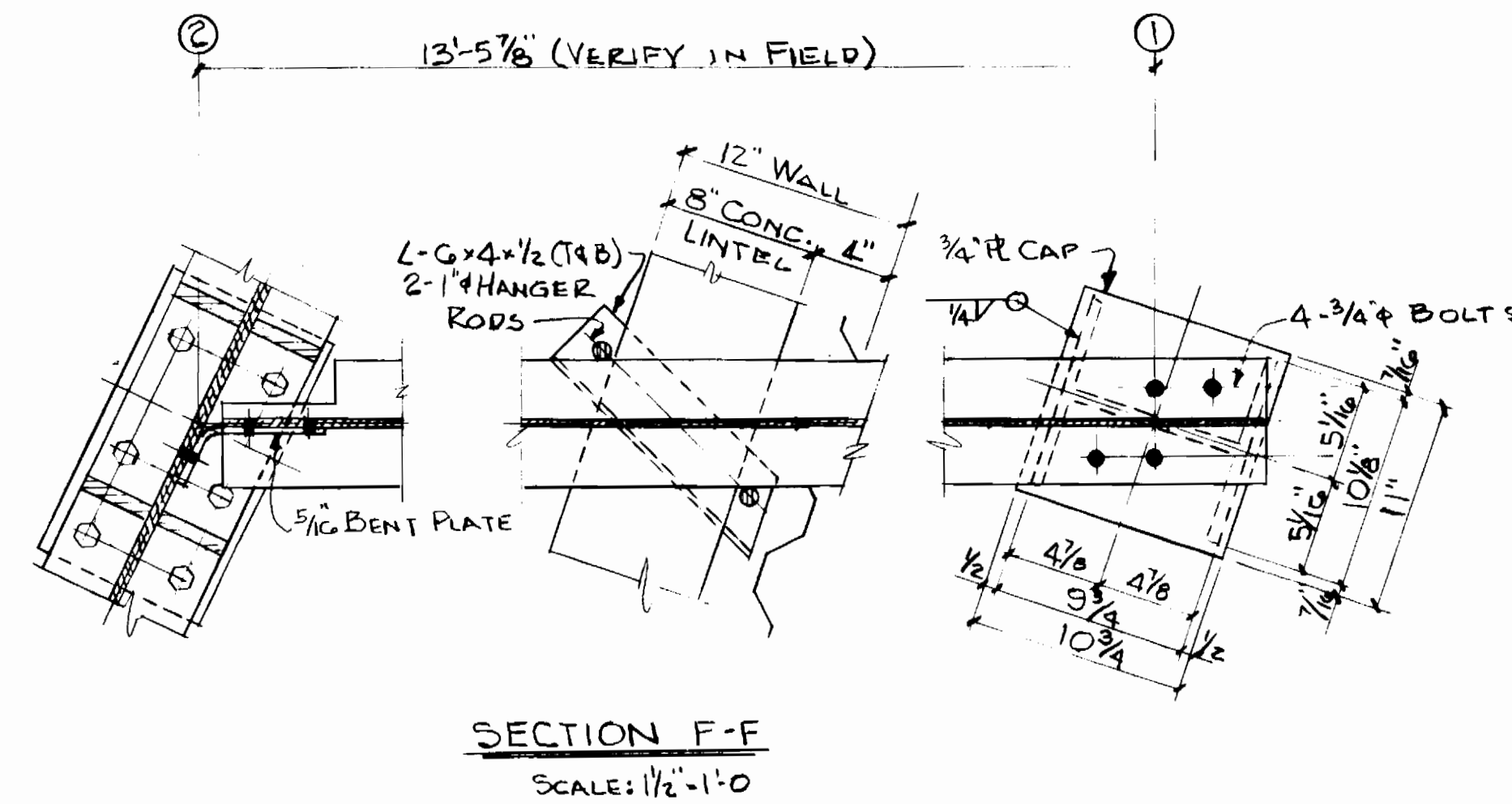
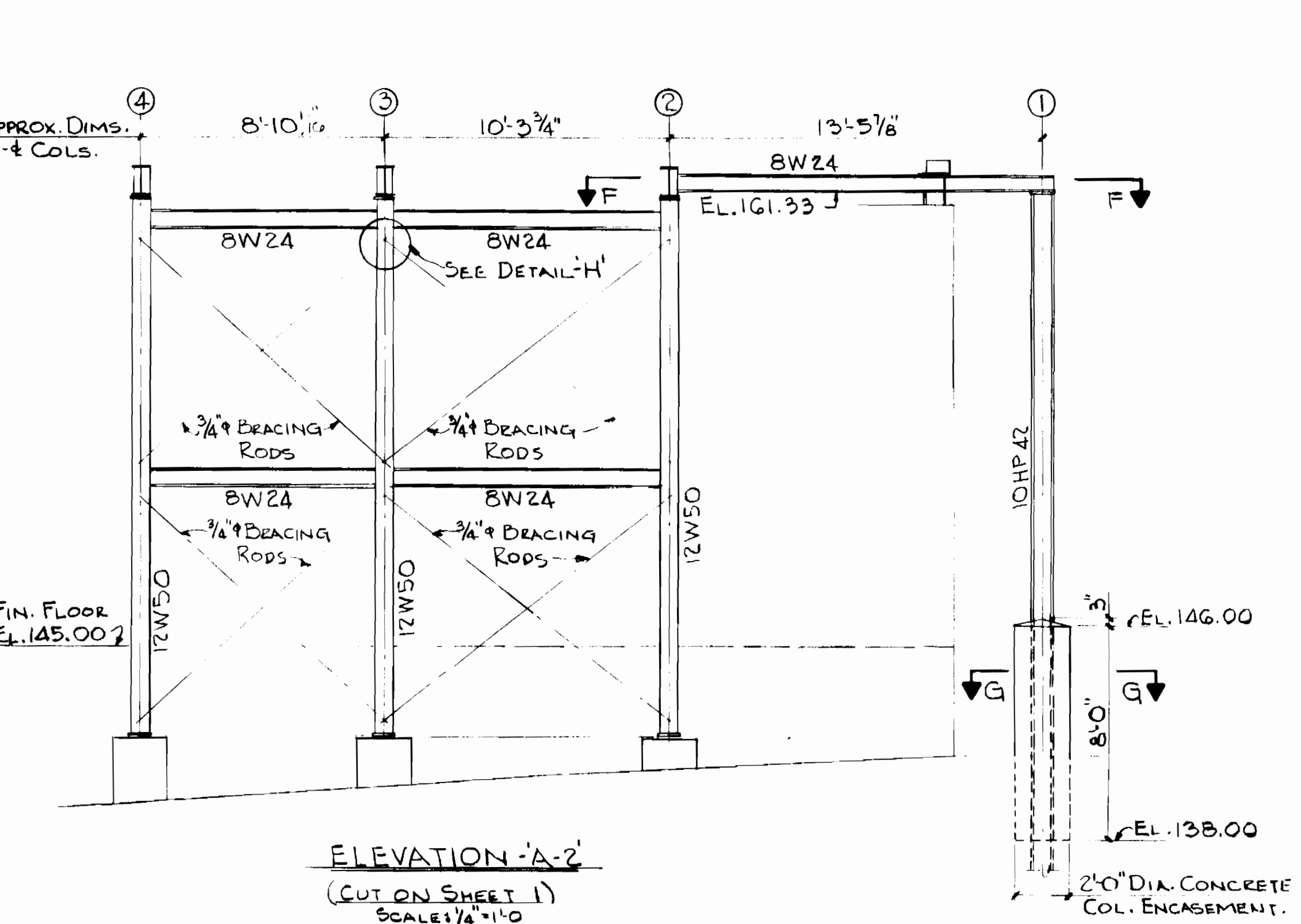
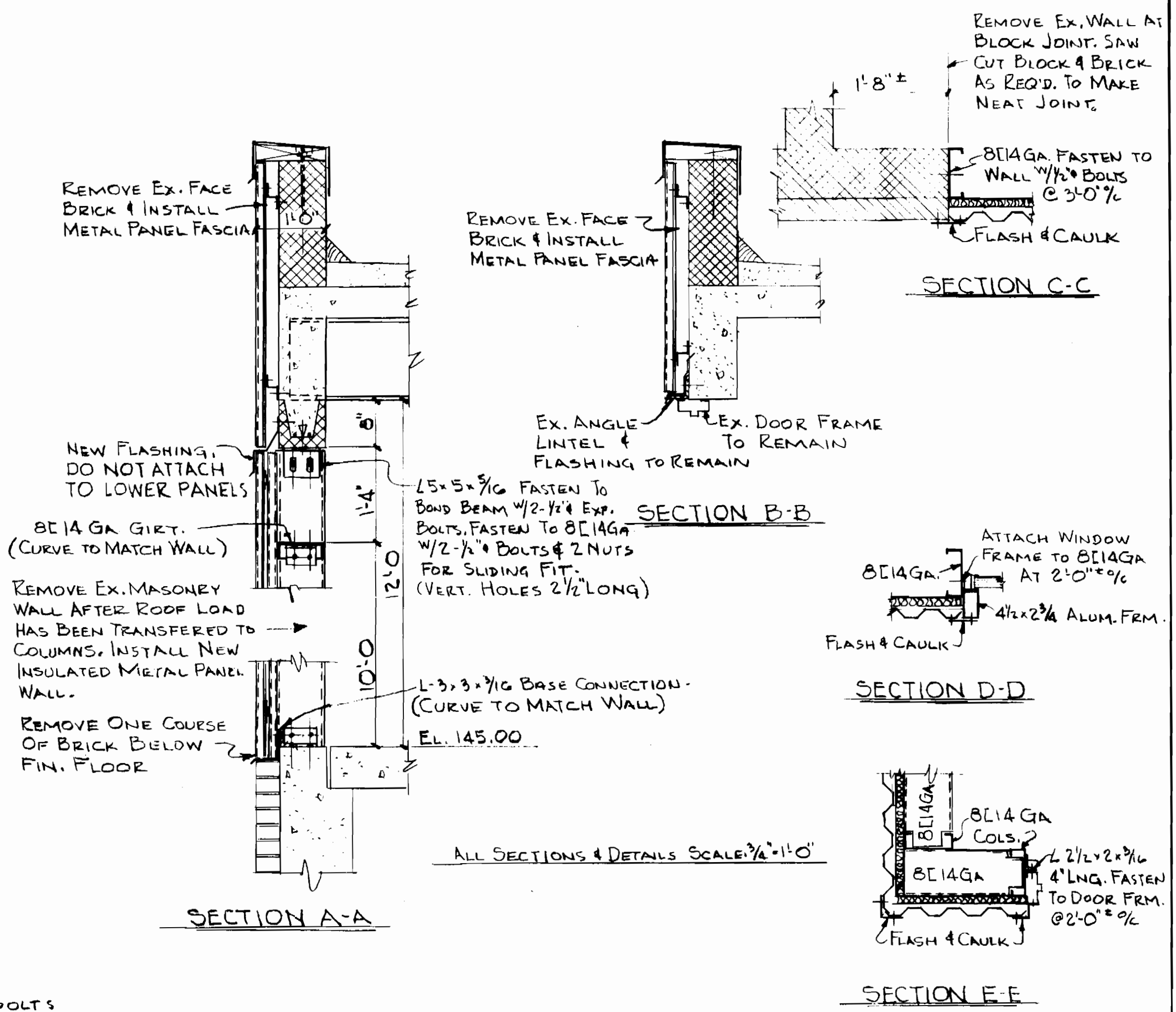
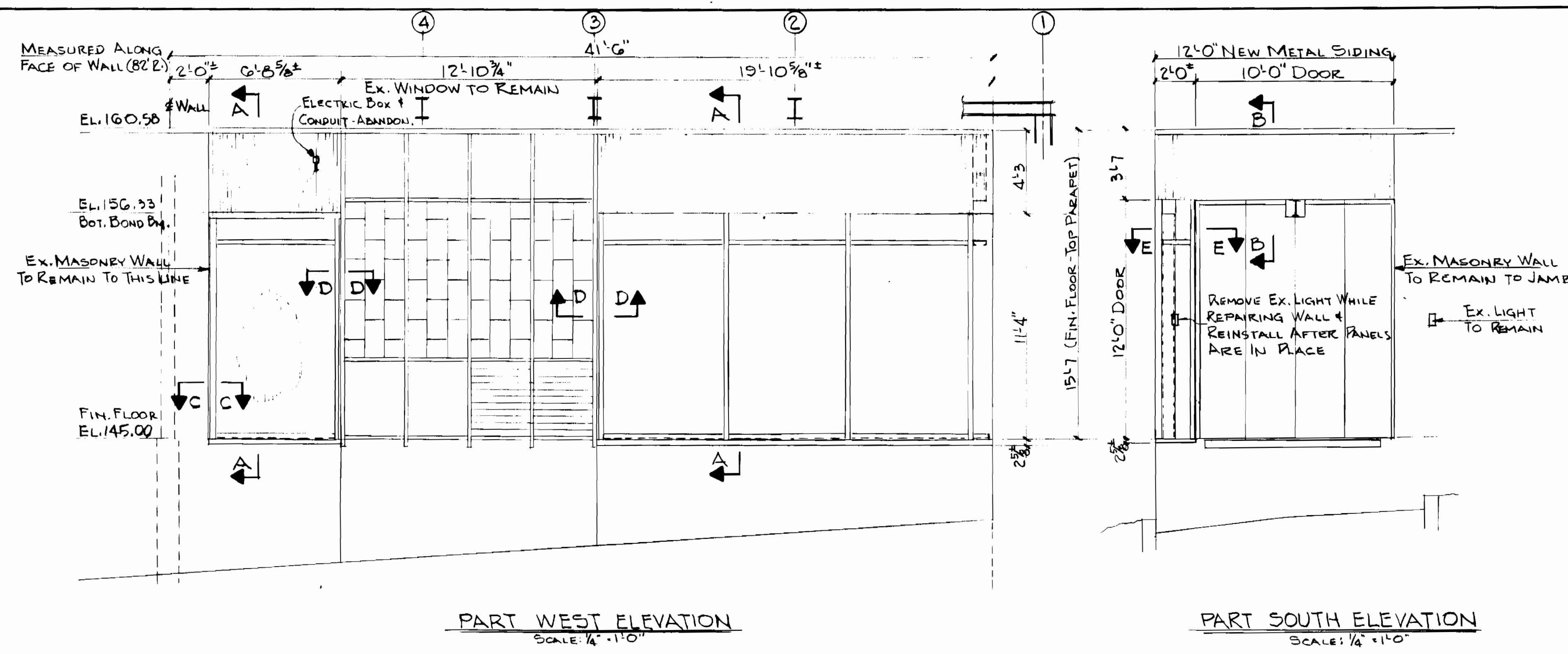
600' SCALE MAP NO. 47 BLOCK NO. 24

SLUDGE OXIDATION BUILDING
SUPPORT SYSTEM
PLAN & DETAILS

LITTLE PATUXENT WASTEWATER TREATMENT PLANT
REPAIRS TO SLUDGE OXIDATION BUILDING
AND PRIMARY CLARIFIER TANK

CONTRACT NO. 20-1711

SCALE AS SHOWN
SHEET 1 OF 3



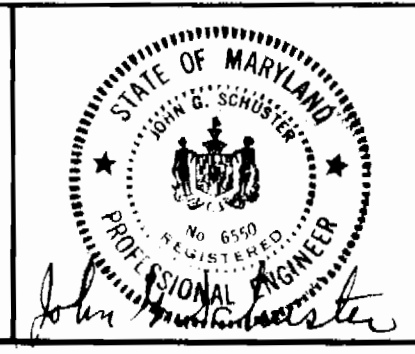
- GENERAL NOTES**
- LOADS:** DEAD LOAD - WEIGHT OF MATERIALS
LIVE LOAD - 30 PSF
HOIST LOAD - 5000 LBS.
 - PILES:** TREATED TIMBER PILES SHALL BE 12" DIAMETER MINIMUM AND BE DRIVEN TO 25 TON BEARING CAPACITY MINIMUM. STEEL PILES SHALL BE 10 HP 42 AND SHALL BE DRIVEN TO 25 TON BEARING CAPACITY MINIMUM. ALL PILES SHALL BE DRIVEN TO A MINIMUM TIP ELEVATION OF 120.00
 - STRUCTURAL CONCRETE:** ALL STRUCTURAL CONCRETE SHALL BE AIR ENTRAINED S.H.A. MIX NO. 3 WITH 3500 PSI MINIMUM COMPRESSION STRENGTH AFTER 28 DAYS.
 - REINFORCING STEEL:** REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET DEFORMED BARS CONFORMING TO ASTM SPEC. A 615, GRADE 60. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH ACI 318-77 AND CRSI STANDARDS. COVER OVER REINFORCING STEEL SHALL BE 2 INCHES UNLESS NOTED OTHERWISE ON THE PLANS.
 - STRUCTURAL STEEL:** STRUCTURAL STEEL SHALL CONFORM TO THE ASTM SPEC. A 36 AND SHALL BE FABRICATED IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR BUILDINGS. SHOP CONNECTIONS MAY BE WELDED OR BOLTED. FIELD CONNECTIONS TO EXISTING STEEL MAY BE EITHER WELDED OR BOLTED. ALL BOLTS SHALL BE HIGH STRENGTH TYPE A-325 AND SHALL BE TIGHTENED BY THE TURN OF THE NUT METHOD. STEEL RODS SHALL BE A-36 STEEL OR EQUIVALENT WITH A MINIMUM YIELD STRENGTH OF 36 KSI. BOLTS SHALL BE ASTM A 325 SIZE 3/4" DIA., UNLESS OTHERWISE NOTED.
 - FIELD DIMENSIONS:** ALL DIMENSIONS OF EXISTING CONSTRUCTION SHALL BE FIELD VERIFIED PRIOR TO STARTING WORK ON FABRICATING STEEL. DEVIATIONS FROM THOSE SHOWN ON THE PLANS SHALL BE FURNISHED TO THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 - BUILDING ELEVATIONS:** ELEVATIONS SHOWN FOR EXISTING GROUND, BUILDING FLOORS AND UNDERSIDE OF BEAMS WERE TAKEN IN THE FIELD BY HOWARD COUNTY'S SURVEY DIVISION IN EARLY 1987. ELEVATIONS WERE MEASURED FROM COUNTY B.M.S III & 222. FIELD RECOVERY SKETCHES OF THESE B.M.S MAY BE OBTAINED AT THE DEPARTMENT OF PUBLIC WORKS ANNEX IN SCAGGSVILLE, MARYLAND.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

11/3/87
DIRECTOR OF PUBLIC WORKS

11/3/87
CHIEF, BUREAU OF ENGINEERING

11/3/87
CAPT. BUREAU OF ENVIRONMENTAL SERVICES



DES: J.G.S.			
DRN: J.G.S.			
CHK: J.G.S.			
DATE: OCT. '87	BY NO.	REVISION	DATE

SLUDGE OXIDATION BUILDING
SUPPORT SYSTEM & WALL PANEL
ELEVATIONS & DETAILS

600' SCALE MAP NO. 41 BLOCK NO. 24

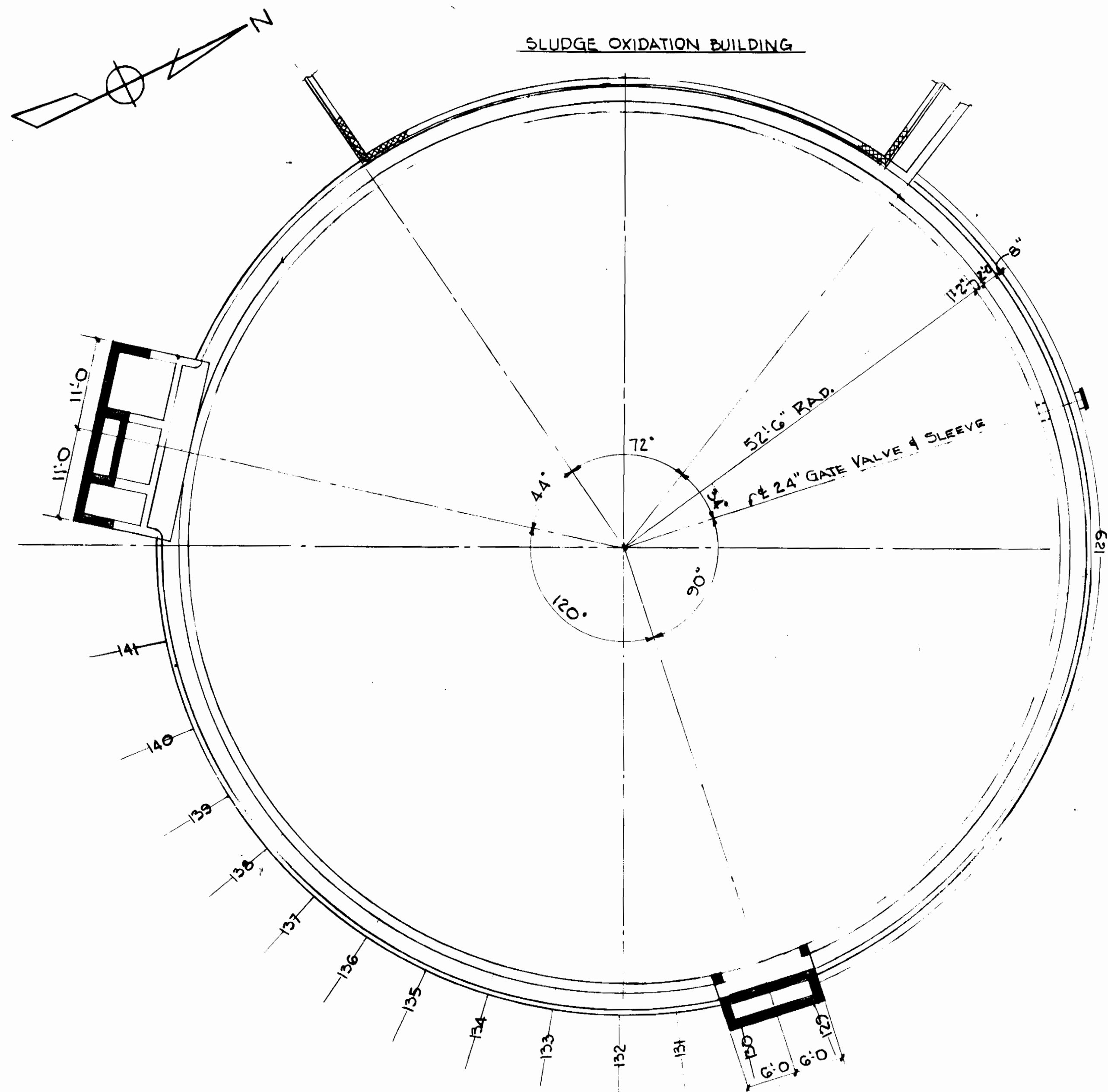
CAPITAL PROJECT S-G145

LITTLE PATUXENT WASTEWATER TREATMENT PLANT
REPAIRS TO SLUDGE OXIDATION BUILDING
AND PRIMARY CLARIFIER TANK

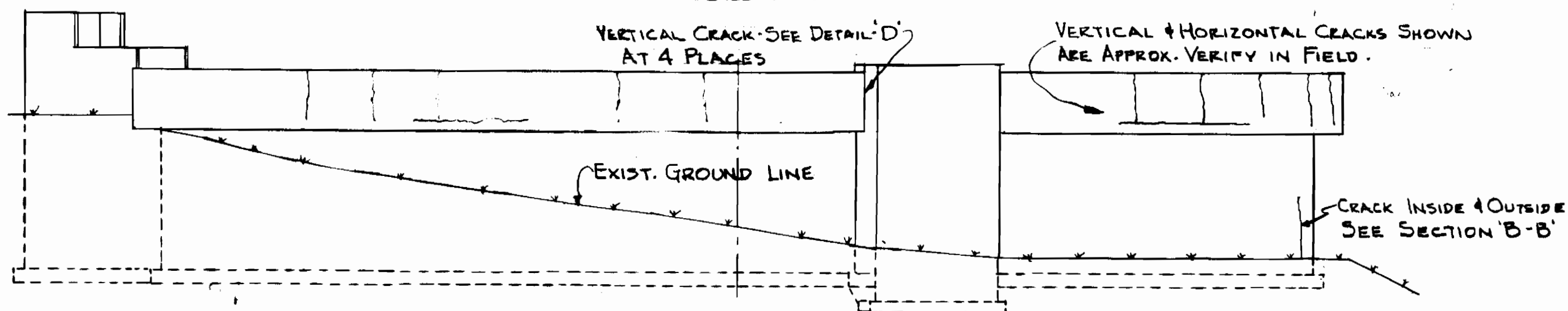
CONTRACT NO. 20-1711

SCALE AS SHOWN

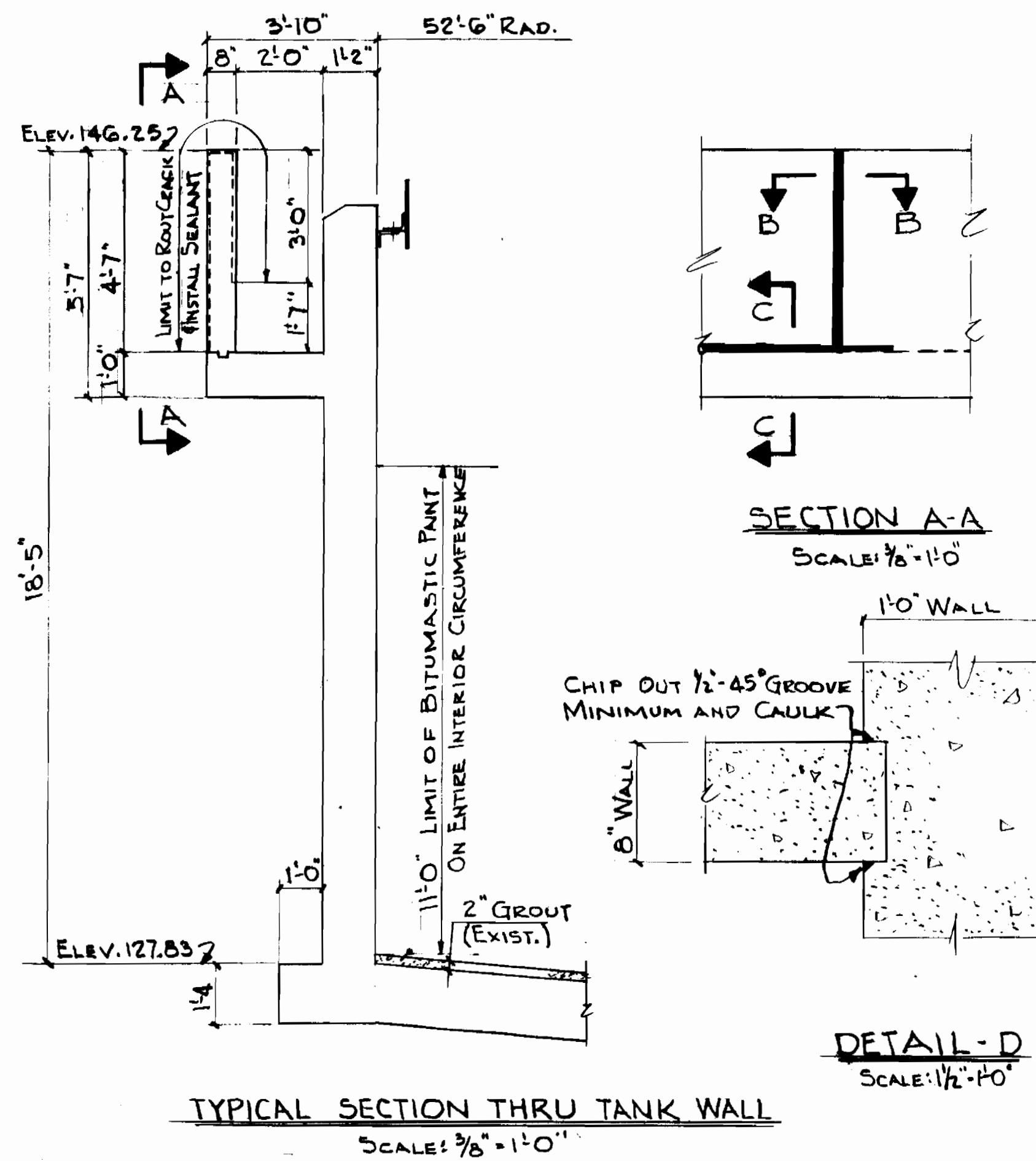
SHEET 2 OF 3



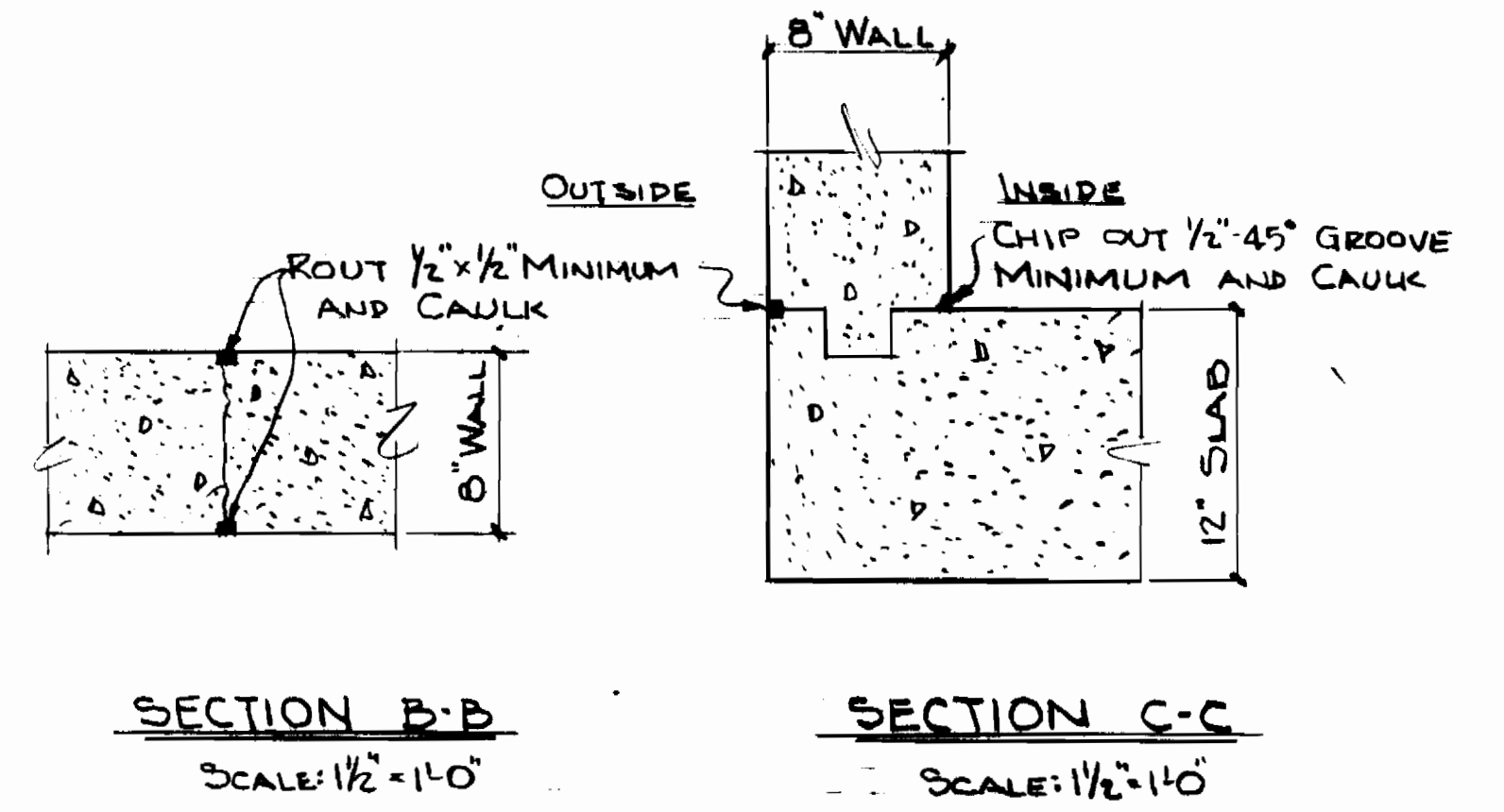
PLAN-PRIMARY CLARIFIER TANK
SCALE: 1"=10'-0"



ELEVATION-PRIMARY CLARIFIER TANK
SCALE: 1"=10'-0"

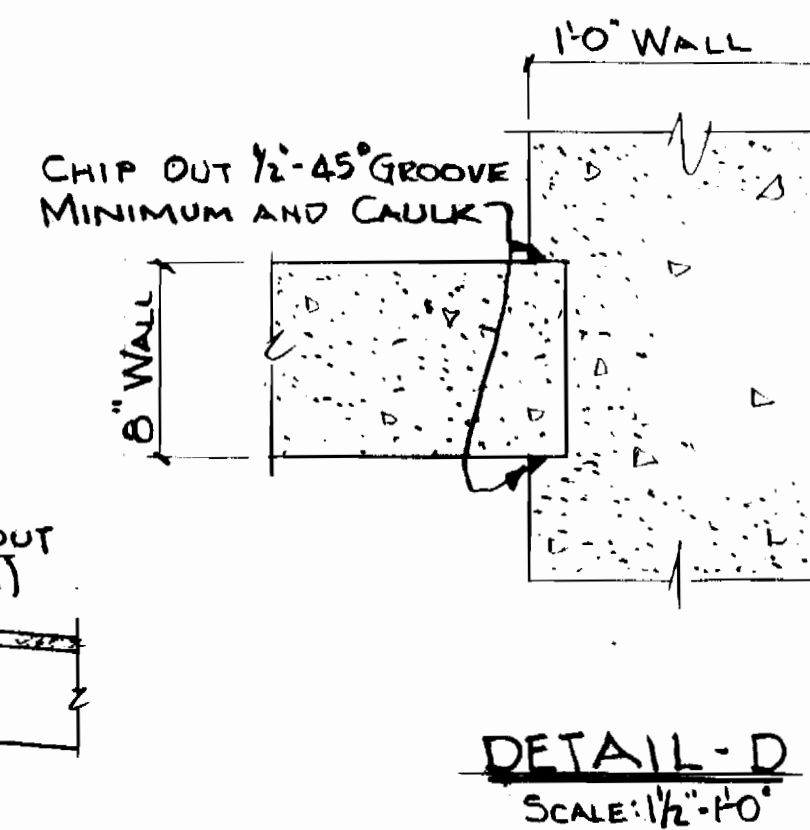


TYPICAL SECTION THRU TANK WALL
SCALE: 3/8"=1'-0"



SECTION B-B
SCALE: 1/2"=1'-0"

SECTION C-C
SCALE: 1/2"=1'-0"



DETAIL-D
SCALE: 1/2"=1'-0"

CAPITAL PROJECT S-G145

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS
DATE: 11/5/07



DES: J.G.S.

DRN: J.G.S.

CHK: J.G.S.

DATE: OCT. 07

BY NO. REVISION

PRIMARY CLARIFIER TANK
PLAN, ELEVATION & SECTIONS
ADD ON ALTERNATE 2

LITTLE PATUXENT WASTEWATER TREATMENT PLANT
REPAIRS TO SLUDGE OXIDATION BUILDING
AND PRIMARY CLARIFIER TANK
CONTRACT NO. 20-1711

SCALE AS SHOWN

SHEET 2 OF 3

DATE: 600' SCALE MAP NO. 41 BLOCK NO. 24