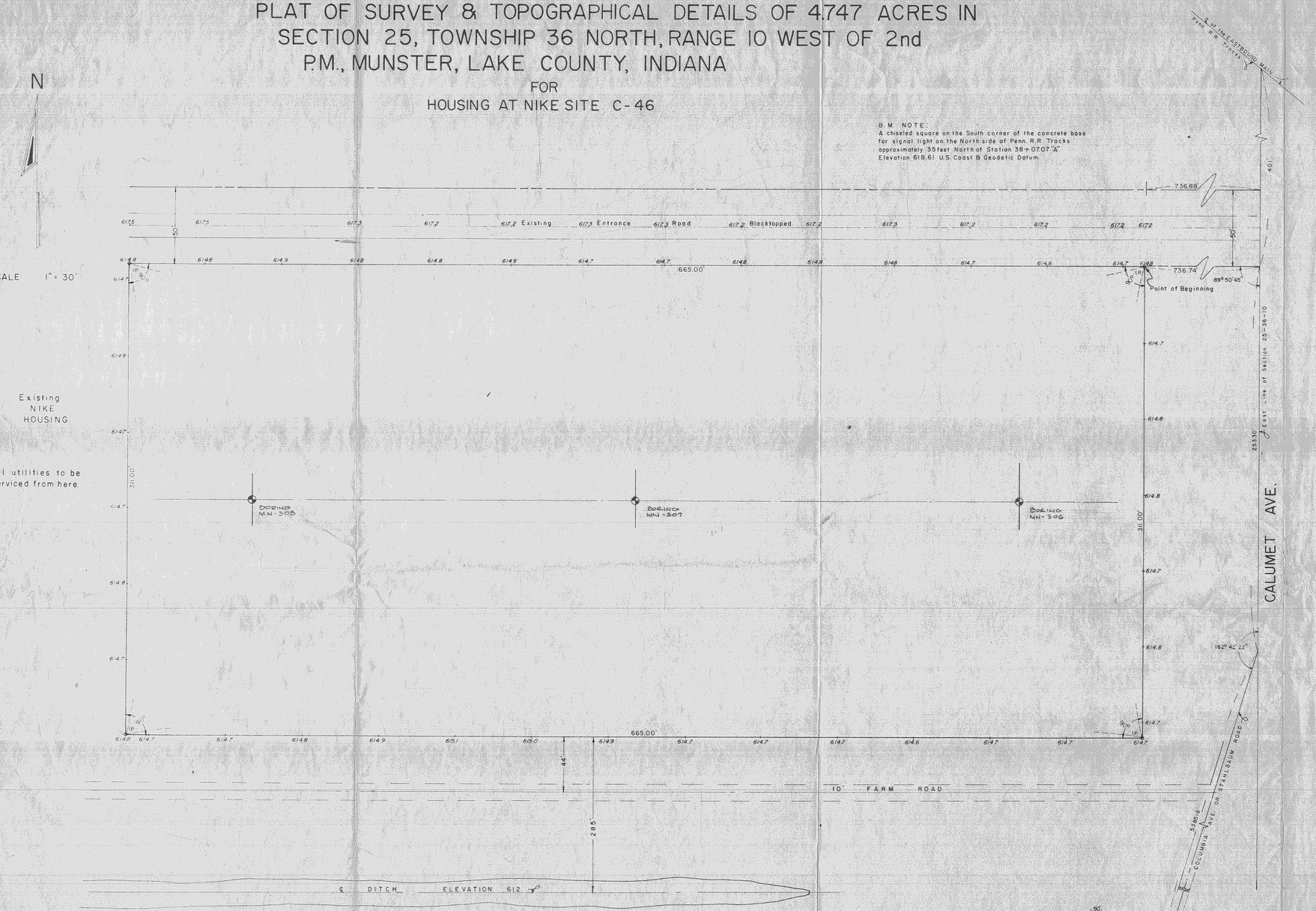
PLAT OF SURVEY & TOPOGRAPHICAL DETAILS OF 4.747 ACRES IN SECTION 25, TOWNSHIP 36 NORTH, RANGE 10 WEST OF 2nd P.M., MUNSTER, LAKE COUNTY, INDIANA

FOR

HOUSING AT NIKE SITE C-46



DESCRIPTION OF 4.747 ACRES IN SECTION 25, TOWNSHIP 36 NORTH, RANGE 10 WEST OF THE SECOND PRINCIPAL MERIDIAN IN THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA FOR NIKE HOUSING C-46.

That part of fractional Section 25, Township 36 North, Range 10 West of the Second Principal Meridian in the Town of Munster, Lake County, Indiana, described as follows: Commencing at the intersection of the centerline of Columbia Avenue (Stahlbaum Road) with the North line of the South 80 acres of fractional Section 36, Township 36 North, Range 10 West of the Second Principal Meridian, said intersection being 845.36 feet East of the centerline of the Chicago, Indianapolis and Louisville Railroad measured on said North line; thence Northeasterly, along said centerline of Columbia Avenue, forming an angle of 107°-33'-30" with said North line measured from West to Northeast, 5385.18 feet to a point on the East line of fractional Section 25 aforementioned, said point being the intersection point of the centerline of Columbia Avenue and the centerline of Calumet Avenue as the same are now laid out and established, said centerlines forming an angle of 162°-42'-22" as measured from Southwesterly to North, thence North along said centerline of Calumet Avenue on the East line of fractional Section 25 aforesaid, a distance of 253.30 feet to a point 401 feet South of the centerline of the Pennsylvania Railroad East-bound main track; thence Westerly along a line that makes an interior angle of 89°-50'-45", measured South to West with East line of said Section 25, 736.74 feet to the point of beginning of said tract; thence continuing Westerly on last described line, 665.00 feet; thence Southerly at right angles, 311.00 feet; thence Easterly at right angles, 665.00 feet; thence Northerly at right angles, 311.00 feet to the point of beginning and containing 4.747 acres.

I, Rowland A. Fabian, a registered land surveyor of the State of Indiana, license number 6538, do hereby certify the above description was prepared under my direction from actual survey notes and other pertinent data from existing records upon and over the described tract, and I further certify that this description is true and correct to the best of my knowledge.

Witness my hand and seal this 26TH day of Nov. 1956.

Rowland A. Fabian

Rowland A. Fabian

FABIAN-FABIAN ENGINEERS, INC.
5451 Hohman Avenue
Hammond, Indiana

LAND SURVEYOR — STATE OF INDIANA — No 6538 — REGISTERED — ROWLAND A. FABIAN

SOIL BORINGS

(FOR BORING LOCATIONS SEE PLOT PLAN THIS SHEET)

MN 306

DATE MADE 1-28-56
GROUND SURFACE ELEVATION

DEPTH	LEGEND	DESCRIPTION
1.0	CL	SANDY CLAY, SILTY SLIGHTLY ORGANIC. DARK GREY
2.2	CL	SANDY CLAY, LOW-MEDIUM PLASTICITY, 30% SAND DARK BROWNISH-GREY
4.6	CL	SANDY CLAY MEDIUM PLASTICITY, 15-20% SAND GREY & BROWN, MOTTLED
4.9	ML	CLAYEY SILT, 30% CLAY GREY & BROWN MOTTLED
6.2	CL	SLIGHTLY SANDY CLAY MEDIUM PLASTICITY BROWNISH-GREY
11	CL	SANDY CLAY, MEDIUM PLASTICITY, FEW VERY FINE GRAVELS 30% VERY FINE GRAINED SAND GREY.
		NOTE: NO WATER ENCOUNTERED WHILE DRILLING, HOLE BLOCKED AT 8.6
10.0		BOTTOM OF BORING

MN 307

DATE MADE 1-28-56
GROUND SURFACE ELEVATION

DEPTH	LEGEND	DESCRIPTION
1.1	CL	SANDY CLAY, SILTY SLIGHTLY ORGANIC. DARK GREY.
2.3	CL	SANDY CLAY, LOW-MEDIUM PLASTICITY, 25% SAND DARK-GREY.
3.5	CL	SANDY CLAY, LOW-MEDIUM PLASTICITY, 15-20% SAND LIGHT BROWN, LAMINATED WITH GREY.
5.2	CL	SANDY CLAY, WITH FEW VERY FINE GRAVELS, MEDIUM PLASTICITY, GREY & BROWN MOTTLED
6.5	CL	SANDY CLAY, MEDIUM PLASTICITY, 15-20% SAND. TRACES OF VERY FINE GRAVELS GREY & BROWN MOTTLED.
8.1	CL	VERY SANDY CLAY WITH FEW SMALL GRAVELS, 35-40% SAND. BROWNISH-GREY.
		NOTE: NO WATER ENCOUNTERED WHILE DRILLING, HOLE BLOCKED AT 8.1
10.0	SC	VERY CLAYEY SAND WITH MANY VERY FINE GRAVELS WELL GRADED SAND, 40% CLAY. BROWNISH GREY.
		BOTTOM OF BORING

MN 308

DATE MADE 11-28-56
GROUND SURFACE ELEVATION

DEPTH	LEGEND	DESCRIPTION
0.8	CL	SILTY CLAY, SANDY, SLIGHTLY ORGANIC, DARK GREY
2.6	CL	SANDY CLAY LOW-MEDIUM PLASTICITY 25-30% SAND. DARK GREY.
4.1	CL	SANDY CLAY, LOW-MEDIUM PLASTICITY 20% SAND GREY & BROWN MOTTLED.
5.7	CL	SANDY CLAY, WITH FEW VERY FINE GRAVELS-MEDIUM PLASTICITY, 20% SAND. GREY & BROWN MOTTLED.
7.3	CL	SANDY CLAY, MEDIUM PLASTICITY, 15-20% SAND. GREY & BROWN MOTTLED.
	CL	SANDY CLAY, MEDIUM PLASTICITY 15% SAND, FEW VERY FINE GRAVELS, GREY.
		NOTE: NO WATER ENCOUNTERED WHILE DRILLING HOLE BLOCKED AT 9.1
10.0		BOTTOM OF BORING

STATE OF INDIANA
COUNTY OF LAKE

I, Rowland A. Fabian, a registered professional engineer in the state aforesaid, license number 7058, do hereby certify that this plat was prepared under my direction from actual survey notes and other pertinent data from existing records, and I further certify that this plat is true and correct to the best of my knowledge.

Witness my hand and seal this 26th day of November, 1956

Rowland A. Fabian

Rowland A. Fabian

FABIAN — FABIAN
ENGINEERS, INCORPORATED

REGISTERED — ROWLAND A. FABIAN — No 7058 — STATE OF INDIANA — PROFESSIONAL ENGINEER

REVISION	DATE	DESCRIPTION	BY

FRIEDMAN, ALSCHULER & SINCERE
ARCHITECTURE ENGINEERING
223 W. JACKSON BLVD. - CHICAGO 6, ILL.

CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DISTRICT ENGINEER
CHICAGO DISTRICT
CHICAGO, ILLINOIS

DRAWN BY: R.F.
TRACED BY: R.F.
CHECKED BY: R.F.
SUBMITTED: [signature] CHIEF, DESIGN BRANCH
APPROVED: [signature] CHIEF, ENGINEERING DIVISION
APPROVED: [signature] ASST. CHIEF, ENG. DIVISION
APPROVED: [signature] CHIEF, ENGINEERING DIVISION

GARY DEFENSE AREA

FAMILY HOUSING UNDER CAPEHART ACT

SITE C-46, HAMMOND

(16 DWELLING UNITS)

PLAT OF SURVEY & LEGAL DESCRIPTION

DATE: 27 NOV., 1956

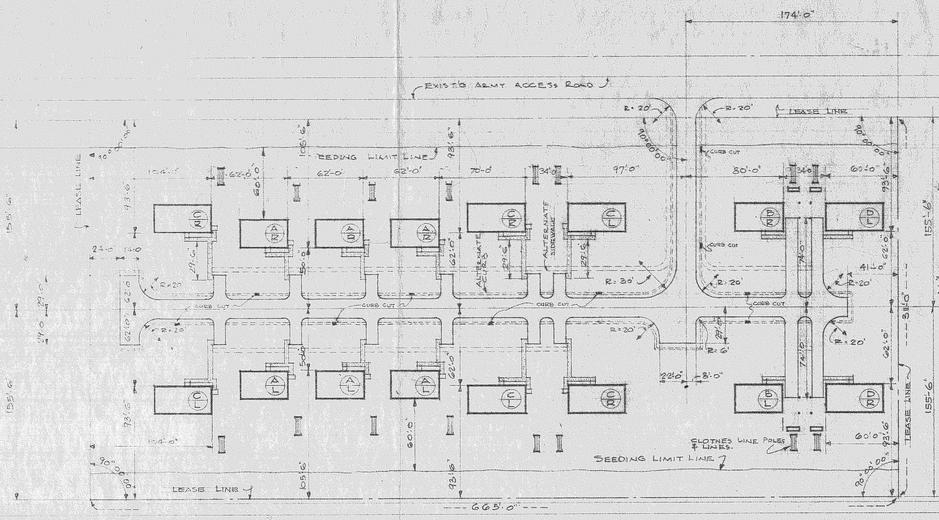
SCALE: AS NOTED | INV. NO.

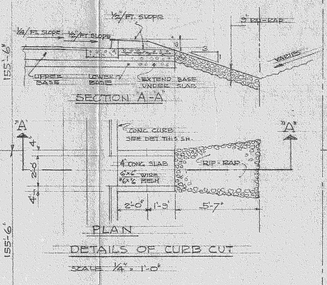
DRAWING NUMBER 15-02-184

SHEET 1 OF 1

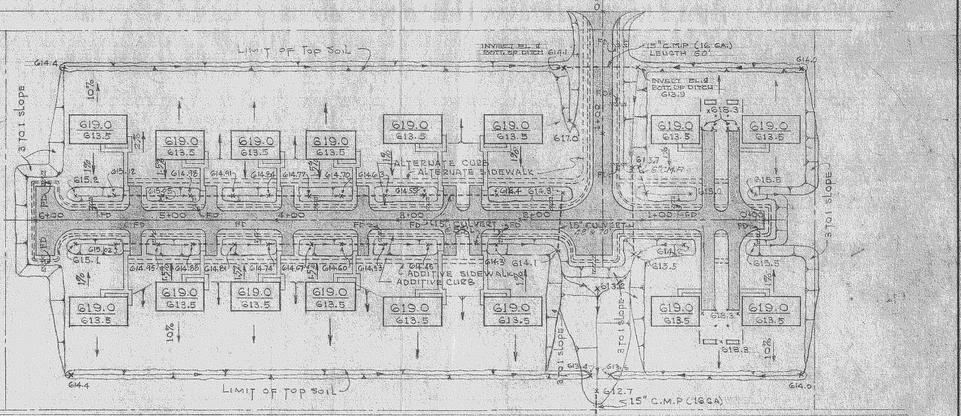
1

NOTE:-
ALL WORK OUTSIDE OF AREA WITHIN LEASE LINES NOT INCLUDED IN THIS CONTRACT





DETAILS OF CURB CUT
SCALE 1/8" = 1'-0"



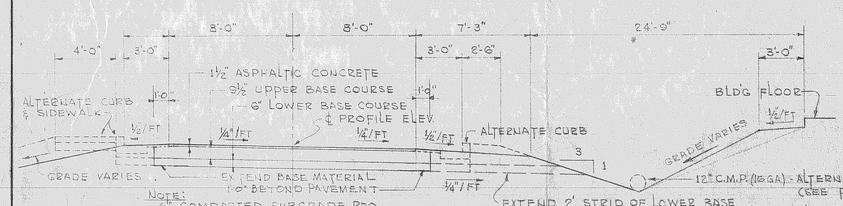
GRADING PLAN
SCALE 1" = 50'

NOTE:
FOR LOCATION PLAN SEE DWG. 7-08-47 SH. 1 OF 2

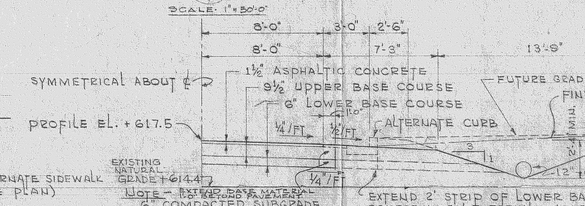
PLOT PLAN
SCALE: 1" = 50'-0"

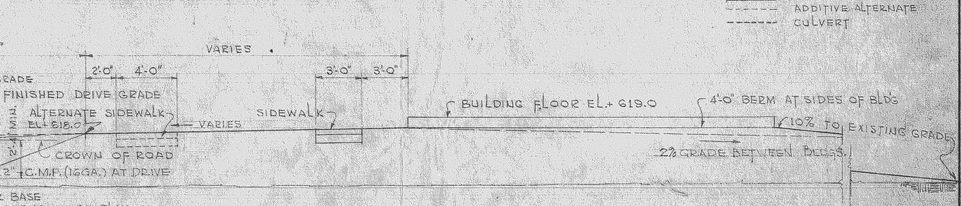
Key —
- 000.0 — FINISHED FLOOR ELEV.
- 000.0 — BOTTOM OF FOOTING ELEV.
- ------ ADDITIVE ALTERNATE
- ------- CULVERT

NOTE:
- GRADE ELEV. AT ALL HOUSES SHALL BE 619.0.
- ALL CULVERTS SHALL BE 12" C.M.P. (16GA) @ 30'-0" LONG EXCEPT WHERE NOTED.
- NATURAL GRADE VARIES FROM 614.3 TO 614.6
- ON PLAN ABOVE ELEVATIONS SHOWN ON BOTH ENDS OF ALL CULVERTS INDICATE INVERT ELEV. OF SAME.



Typical Section Thru Access Roadway
Looking North
SCALE ¼" = 1'-0"



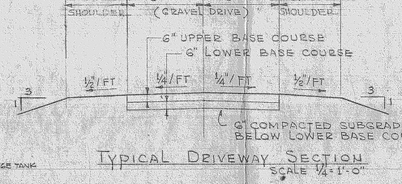


Typical Section Thru Roadway & Building
SCALE ¼" = 1'-0"

SUMMATION OF DWELLING UNITS REQUIRED	
TYPE *	NO. REQ'D.
A	3
A(R)	3
B	1 **
B(R)	1 **
C	3
C(R)	3
D	1 **
D(R)	1 **
TOTAL	16

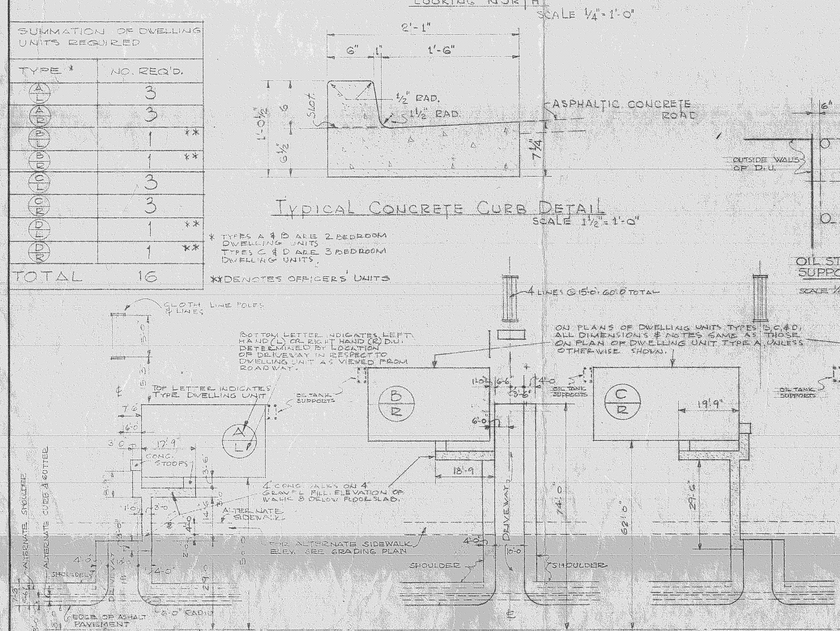
* TYPES A & B ARE 2 BEDROOM DWELLING UNITS
TYPES C & D ARE 3 BEDROOM DWELLING UNITS.
** DENOTES OFFICERS' UNITS

Typical Concrete Curb Detail
SCALE 1½" = 1'-0"

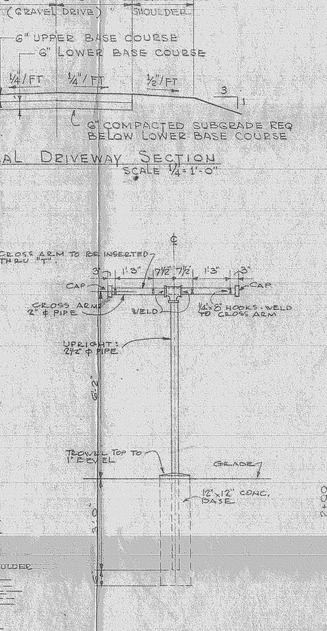


Typical Driveway Section
SCALE ¼" = 1'-0"

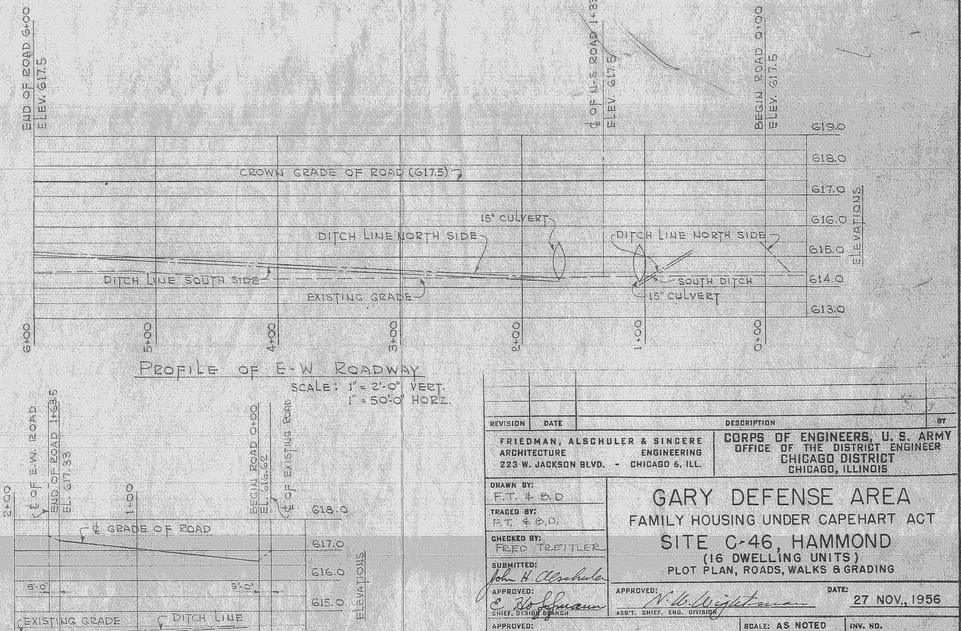
Profile of E-W Roadway
SCALE: 1" = 2'-0" VERT.
1" = 50'-0" HORZ.



SIDEWALK & DRIVEWAY PLANS
SCALE: 1" = 20'-0" (ALL DIMENSIONS ARE TYPICAL UNLESS OTHERWISE SHOWN ON PLOT PLAN)



DETAIL - METAL CLOTHES LINE POLES.
SCALE: ½" = 1'-0"



Profile of Access Roadway
1" = 2'-0" VERT. 1" = 50'-0" HORZ.

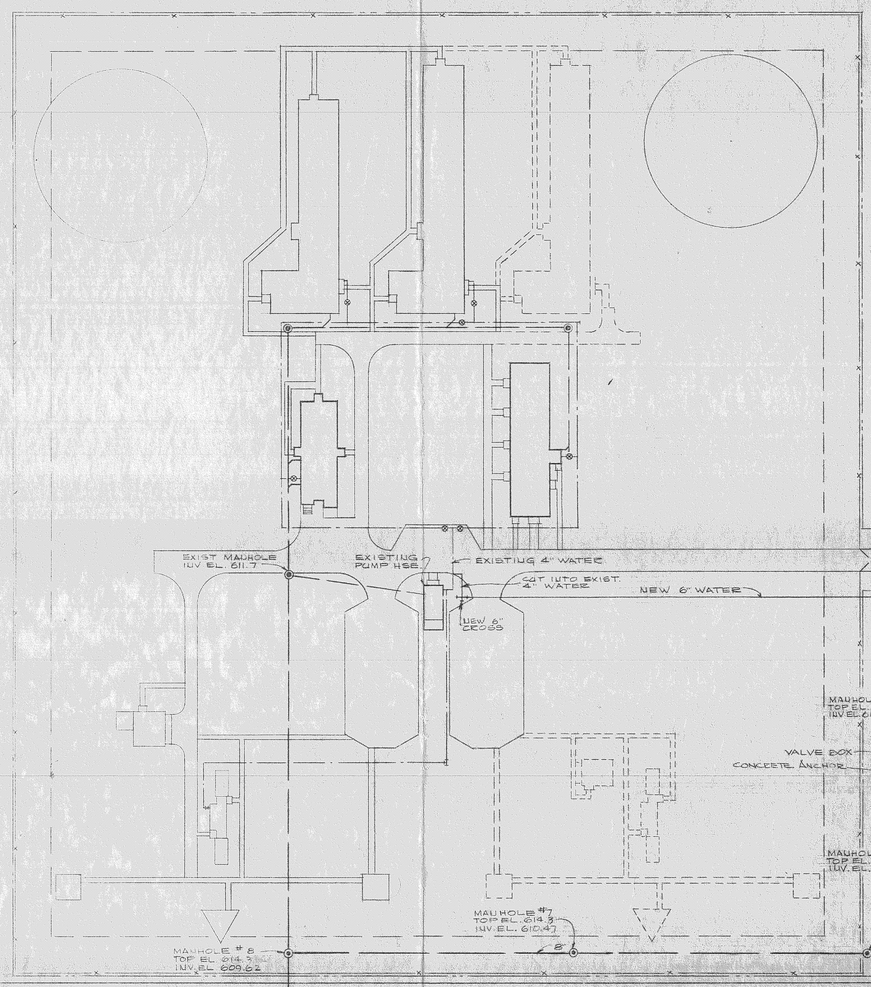
REVISION	DATE	DESCRIPTION	BY

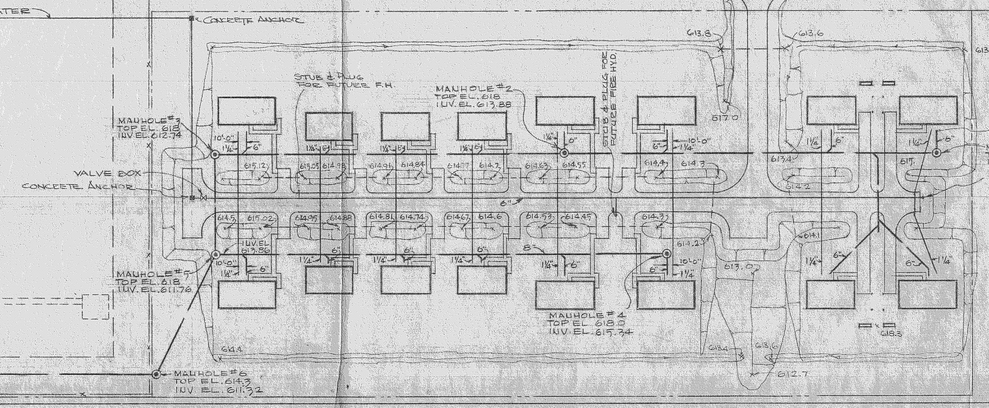
FRIEDMAN, ALSCHULER & SINCERE
ARCHITECTURE ENGINEERING
223 W. JACKSON BLVD. - CHICAGO 6, ILL.

CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DISTRICT ENGINEER
CHICAGO DISTRICT
CHICAGO, ILLINOIS

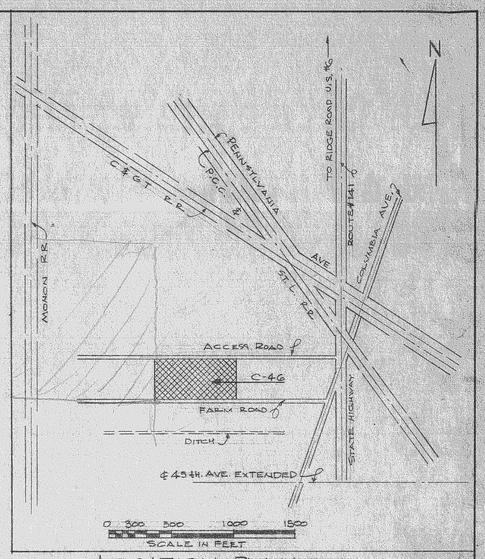
DRAWN BY: F.T. & B.D.
TRACED BY: F.T. & B.D.
CHECKED BY: FRED TREITLER
SUBMITTED: John H. Alschuler
APPROVED: E. B. Hoffmann, CHIEF, DESIGN BRANCH
APPROVED: N. W. Wightman, ASST. CHIEF, ENG. DIVISION
DATE: 27 NOV., 1956
APPROVED: R. J. Krueger, CHIEF, ENGINEERING DIVISION
SCALE: AS NOTED
INV. NO.
DRAWING NUMBER 11-04-295
SHEET 1 OF 1

GARY DEFENSE AREA
FAMILY HOUSING UNDER CAPEHART ACT
SITE C-46, HAMMOND
(16 DWELLING UNITS)
PLOT PLAN, ROADS, WALKS & GRADING

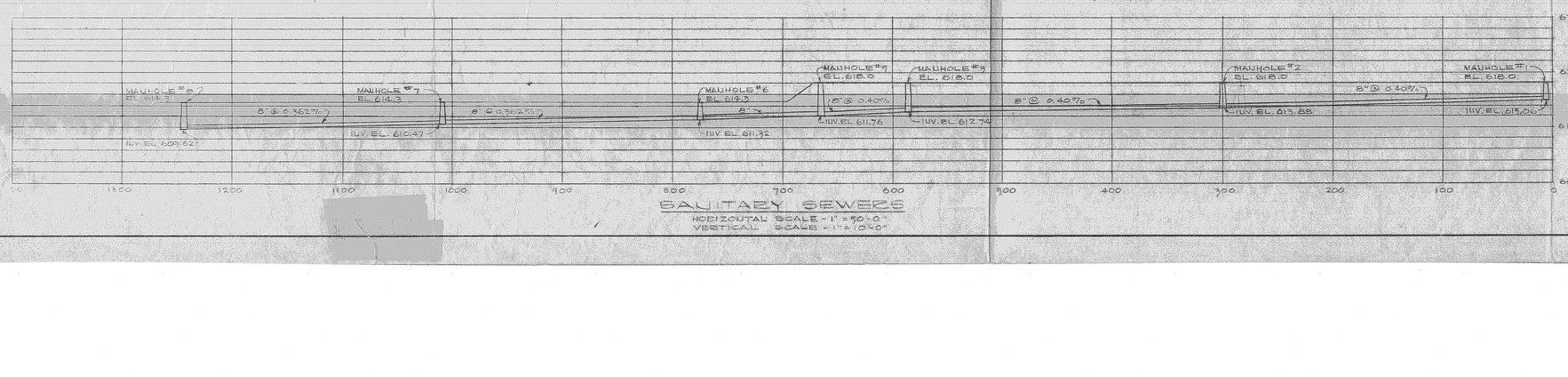




PLOT PLAN
SCALE - 1" = 50'-0"



LOCATION PLAN



SANITARY SEWERS
HORIZONTAL SCALE - 1" = 50'-0"
VERTICAL SCALE - 1" = 10'-0"

GENERAL NOTES

1. MINIMUM COVER ON ALL WATER LINES SHALL BE 4'-0"
2. MINIMUM COVER ON ALL SEWER LINES SHALL BE 2'-0"
3. MAINTAIN 10'-0" ℄ TO ℄ DISTANCE BETWEEN ALL WATER & SEWER BRANCHES & MAINS.
4. MINIMUM SLOPE FOR 6" BRANCH SEWER LINES SHALL BE 0.60%
5. WHERE WATER LINES PASS UNDER SEWER, MAKE SEWER CAST IRON FOR 10'-0" ON EACH SIDE OF CROSSING.
6. WHERE THEY CROSS, WATER MAINS WILL BE ABOVE SEWER LINES, IF PRACTICABLE.
7. PROVIDE SHUT-OFF VALVE WITH BUFFALO BOXES FOR ALL WATER BRANCHES. 5'-0" FROM BLDG.
8. ALL SEWER BRANCHES STOP 5'-0" FROM BLDG.

REVISION	DATE	DESCRIPTION	BY

FRIEDMAN, ALSCHULER & SINCERE
ARCHITECTURE ENGINEERING
223 W. JACKSON BLVD. - CHICAGO 6, ILL.

CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DISTRICT ENGINEER
CHICAGO DISTRICT
CHICAGO, ILLINOIS

DRAWN BY: E. PETROSKEY
TRACED BY: E. PETROSKEY
CHECKED BY: FRED TZEITLER
SUBMITTED: John H. Alschuler

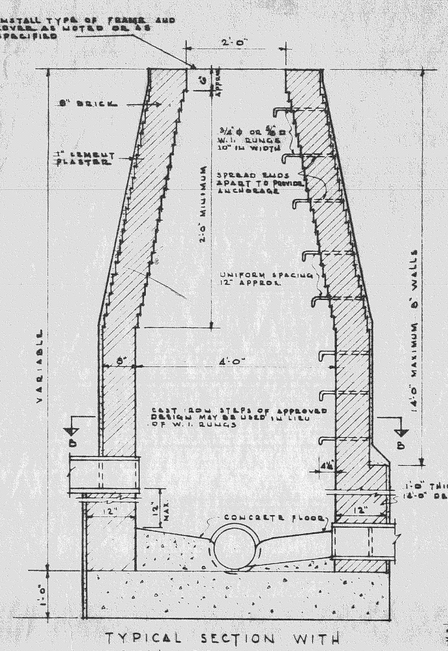
GARY DEFENSE AREA
FAMILY HOUSING UNDER CAPEHART ACT
SITE C-46, HAMMOND
(16 DWELLING UNITS)
SANITARY SEWER & WATER DISTRIBUTION

APPROVED: E. W. Hoffmann, CHIEF, DESIGN BRANCH
APPROVED: N. W. Wightman, ASST. CHIEF, ENG. DIVISION
DATE: 27 NOV., 1956
APPROVED: A. D. Cooper, CHIEF, ENGINEERING DIVISION
SCALE: AS NOTED | INV. NO.
DRAWING NUMBER 71-08-47
SHEET 1 OF 2

(3)

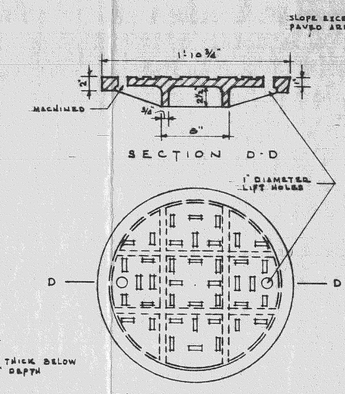
CORPS OF ENGINEERS

U.S. ARMY



TYPICAL SECTION WITH USUAL CONNECTIONS

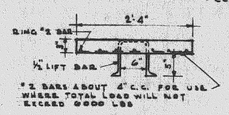
NOTE:
RE. CAST IRON COVERS AND FRAMES
DESIGN IS BASED ON A WHEEL LOAD OF 16000 POUNDS PLUS 25% ALLOWANCE FOR IMPACT AND THE USE OF CLASS 30 CAST IRON (FED. SPEC. QQ-I-652). OTHER DESIGNS DIFFERING ONLY IN MOLL ESSENTIAL DETAILS AND AS APPROVED BY THE CONTRACTING OFFICER MAY BE USED. TOTAL WEIGHT SHALL NOT BE LESS THAN 400 POUNDS



SECTION D-D

SECTION OF FRAME FOR STANDARD MANHOLE

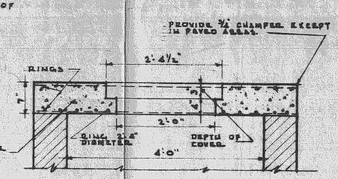
PLAN OF COVER



"S" BARS ABOUT 4' C.C. FOR USE WHERE TOTAL LOAD WILL NOT EXCEED 6000 LBS

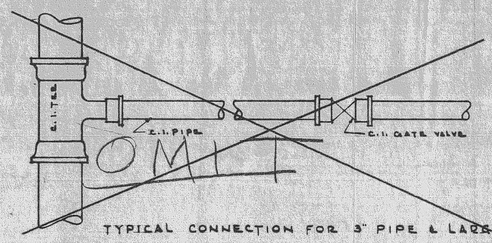
SECTION "X-X"

NOTE:
RE. CONCRETE COVERS AND FRAMES
USE CLASS AA3750 P.S.I. CONCRETE
STEEL RINGS MAY BE EITHER LAPPED OR WELDED AT ENDS
ALL BARS SHALL BE TIED TO RINGS

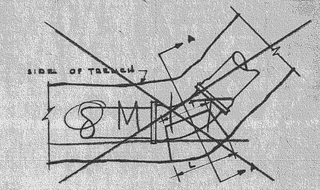


SECTION Y-Y

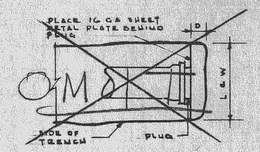
USE "S" BARS IN FRAMES FOR 3" COVERS

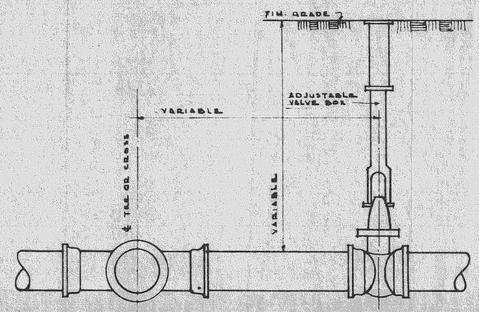


TYPICAL CONNECTION FOR 3" PIPE & LARGER

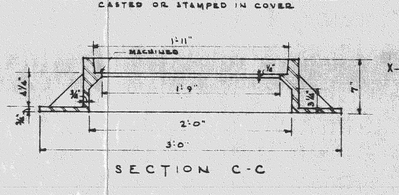


45° EIGHTH BEND

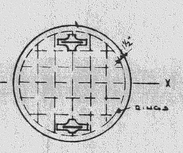




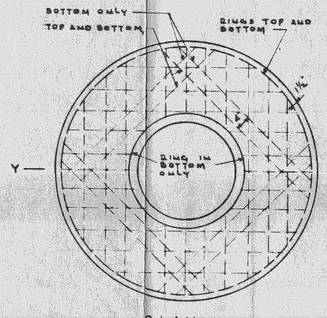
TYPICAL VALVE SETTING



SECTION C-C



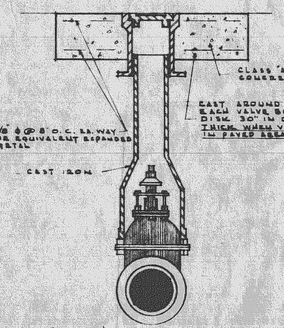
PLAN
REMOVABLE COVER



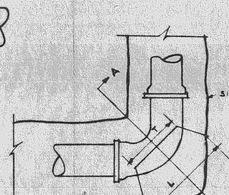
PLAN
SHALLOW MANHOLE FRAME

CONCRETE COVERS AND COVER FRAMES
SCALE ¼"=1'-0"

USE THIS DETAIL WHEN MANHOLES ARE LESS THAN 8'-0" IN DEPTH



DETAIL VALVE BOX



SECTION A-A

90° QUARTER BEND

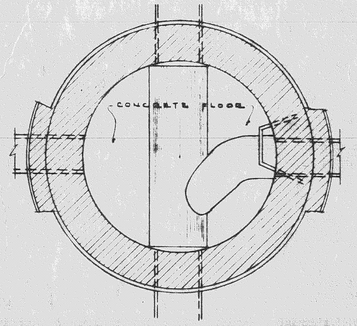
(90°) QUARTER BENDS							
SIZE	6"	8"	10"	12"	16"	20"	24"
D	8"	10"	12"	12"	20"	20"	
L	24"	27"	30"	34"	48"	54"	72"
W	12"	16"	20"	24"	28"	40"	44"
T	16"	18"	20"	22"	30"	36"	50"

(45°) QUARTER BENDS							
SIZE	6"	8"	10"	12"	16"	20"	24"
D	6"	6"	6"	6"	6"	8"	16"
L	18"	20"	23"	24"	34"	45"	57"
W	12"	14"	16"	18"	24"	28"	32"
T	16"	16"	18"	18"	28"	37"	36"

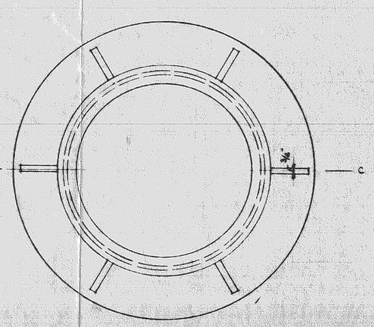
PLUGS							
SIZE	6"	8"	10"	12"	16"	20"	24"
D	6"	6"	6"	6"	6"	14"	18"
L & W	20"	22"	24"	24"	32"	40"	48"

NOTE:
DEPTH "D" MAY BE GREATER THAN SPECIFIED TO ALLOW WORKING SPACE. PIER MUST BE PLACED AGAINST UNDISTURBED EARTH.

CONCRETE ANCHORS FOR PIPE

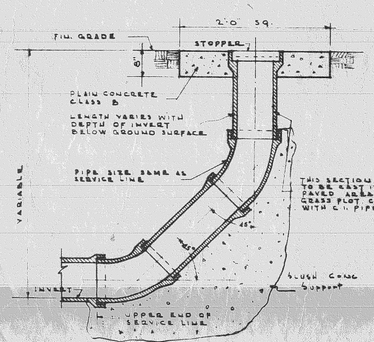


HORIZONTAL SECTION B-B

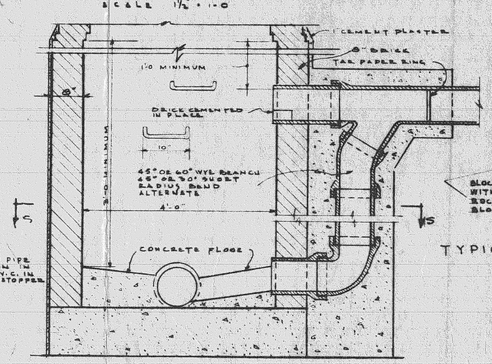


PLAN OF FRAME

CAST IRON COVERS AND COVER FRAMES
SCALE 1½"=1'-0"

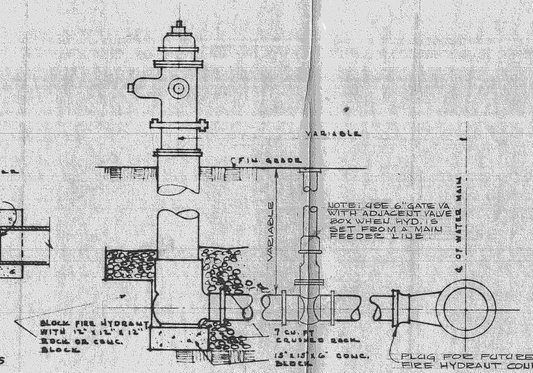


TYPICAL CLEANOUT
NO SCALE

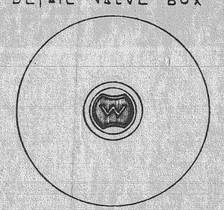


TYPICAL SECTION WITH DROP CONNECTIONS DROP MANHOLE

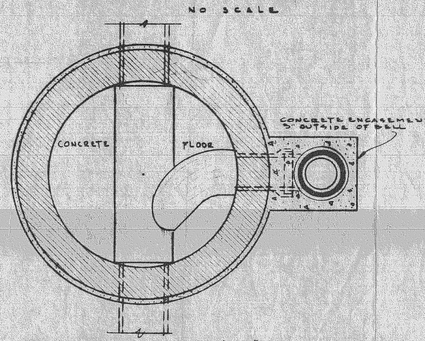
NOTE:
A WYE BRANCH & CURVE MAY BE USED IN THE DROP CONNECTION IN LIEU OF THE STANDARD SHOWN IN DETAIL. CAST IRON STEPS OF APPROVED DESIGN MAY BE USED IN LIEU OF W.I. RUNGS.



TYPICAL FIRE HYDRANT SETTING (FUTURE)



VALVE BOX TOP
NO SCALE



HORIZONTAL SECTION "S-S"
DROP MANHOLE

USE ONLY DETAILS APPLICABLE TO THIS SITE

REVISION	DATE	DESCRIPTION	BY
A	27 NOV 56	ADAPTED FOR C-46, HAMMOND BY FRIEDMAN, ALSCHULER & SINCERE	RVP

CORPS OF ENGINEERS, U. S. ARMY
OFFICE OF THE DISTRICT ENGINEER
CHICAGO DISTRICT
CHICAGO, ILLINOIS

PREPARED BY:
DRAWN BY:
CHECKED BY:

GARY DEFENSE AREA
FAMILY HOUSING UNDER CAPEHART ACT
SITE C-46, HAMMOND
(16 DWELLING UNITS)
MANHOLE, FIRE HYDRANT & VALVE BOX DETAILS

SUBMITTED BY: E. Hoffmann, CHIEF, DESIGN BRANCH
APPROVAL RECOMMENDED: N. B. Wright, ASST. CHIEF, ENG. DIVISION
DATE: 27 NOV, 1956
APPROVED: A. T. Cooper, CHIEF, ENGINEERING DIVISION
SCALE: AS NOTED
SHEET 2 OF 2
DRAWING NUMBER 71-08-47

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