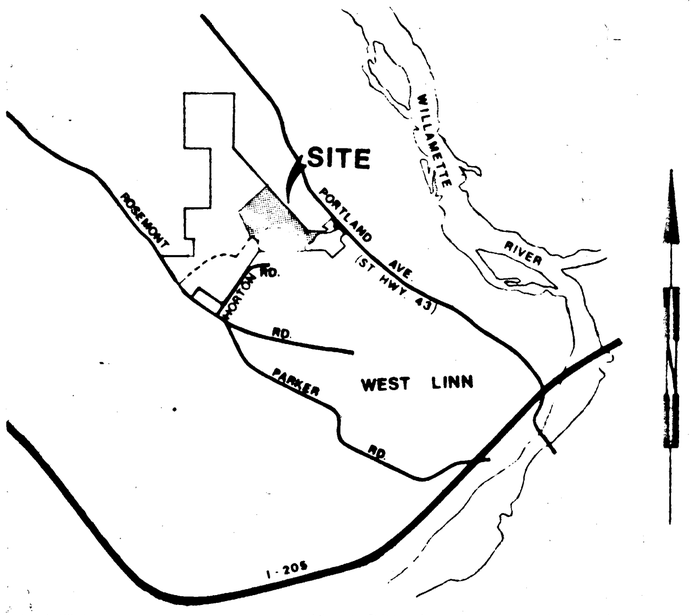


VICINITY MAP

NO SCALE

FOR:

EDWARDS INDUSTRIES, INC.
Beaverton, Oregon

W&H WILSEY & HAM

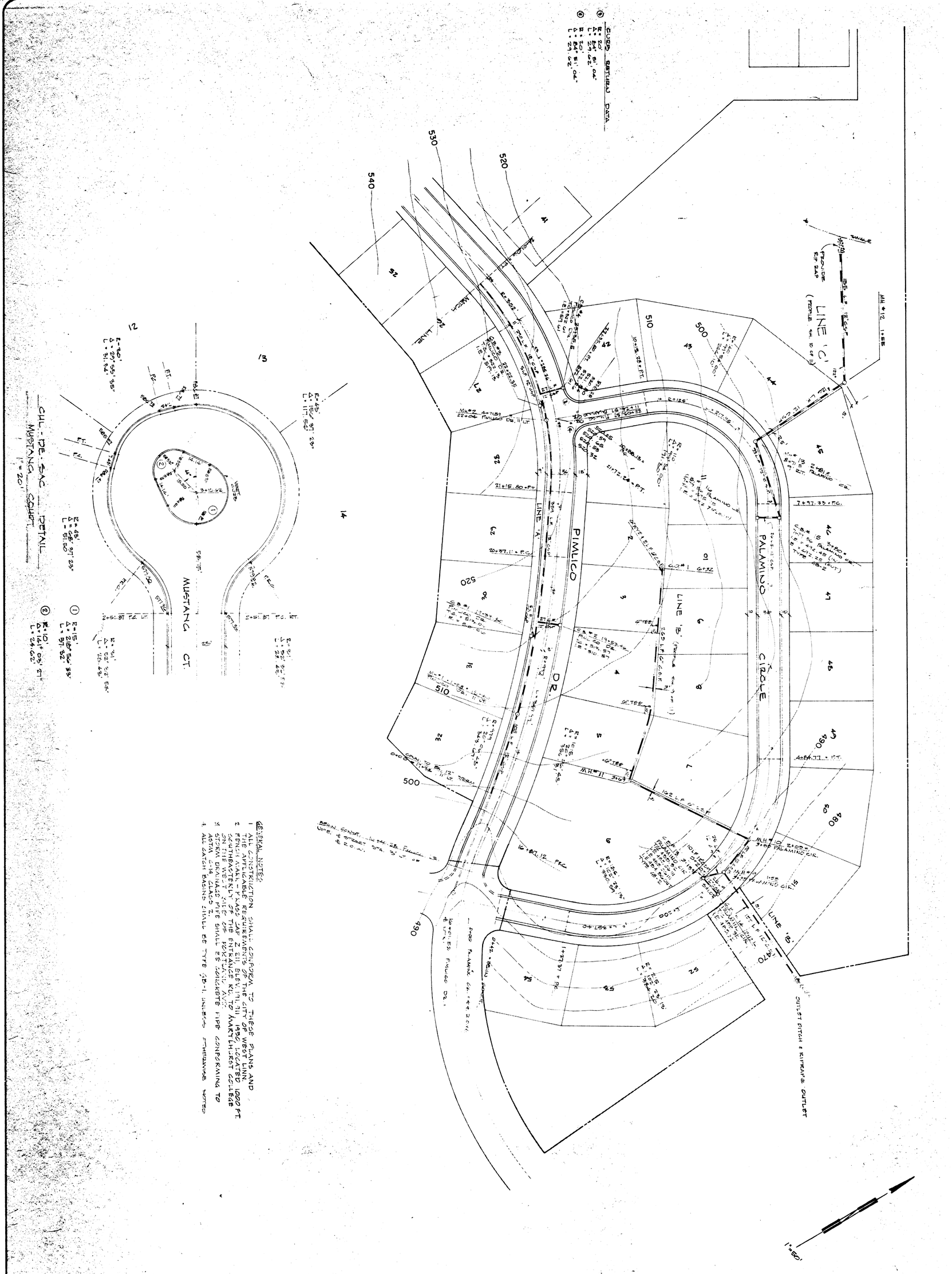
Suite 4, Portland Center, 222 S.W. Harrison
Portland, Oregon 97201 503 227-0455

AS BUILT 3-2-76

CONSTRUCTION DRAWINGS

HIDDEN SPRINGS RANCH NO.2

West Linn, Oregon



AS BUILT 3-2-76

SHEET NO. 1 of 11

DESIGN OCT. 1974 BY BPG
DRAWN OCT. 1974 BY JLM
CHECKED OCT. 1974 BY DPE
FILE NO. 4-1180-3201

REGISTERED PROFESSIONAL ENGINEER 6467 OREGON JULY 11, 1969 ERROL F. GARR

HIDDEN SPRINGS RANCH NO. 2

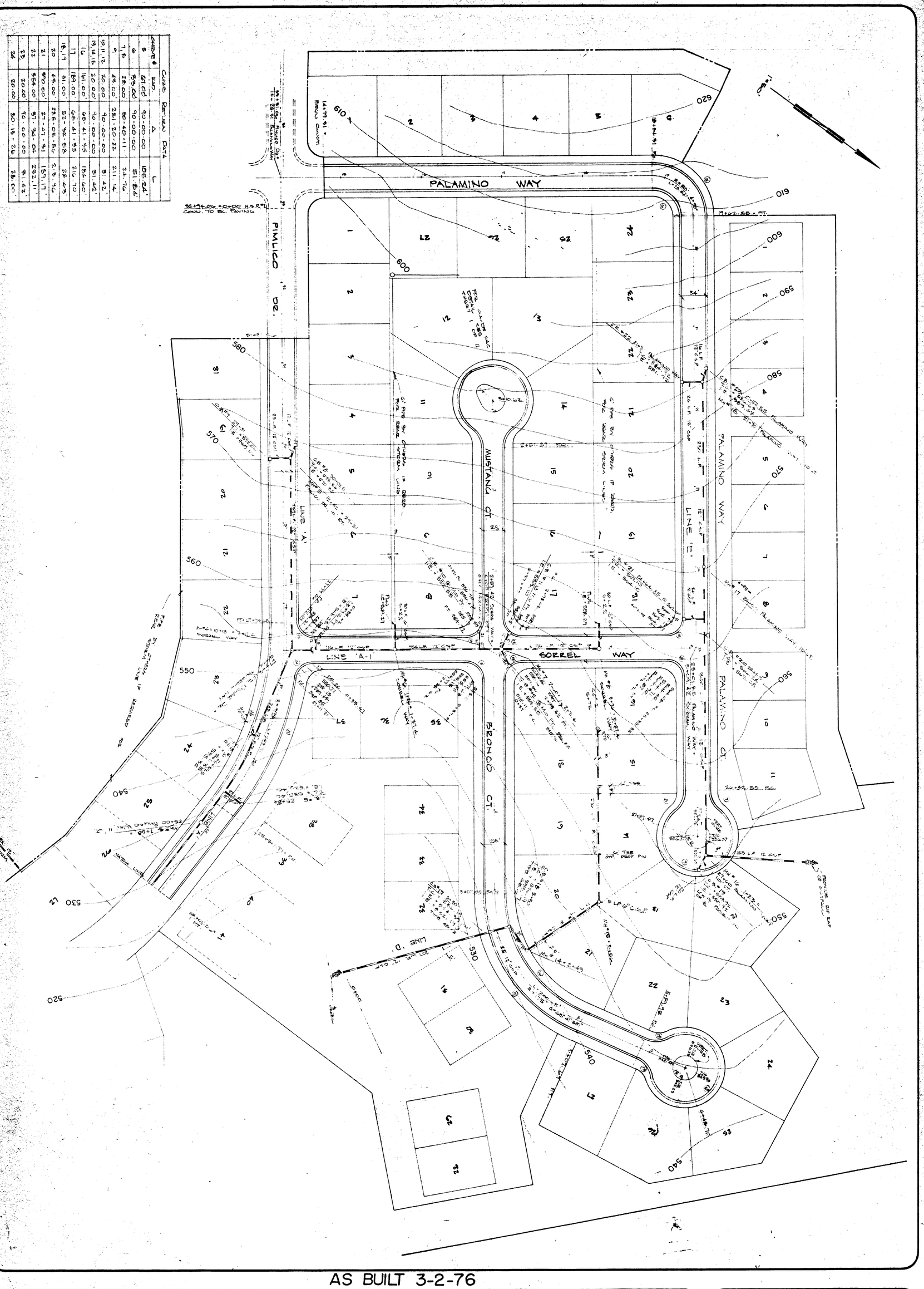
west linn, oregon

Street & Storm Sewer Plan

EDWARDS INDUSTRIES, INC. beaverton, oregon

W&H WILSEY & HAM

Suite 4, Portland Center, 222 S.W. Harrison
Portland, Oregon 97201 503 227-0455



AS BUILT 3-2-76

SHEET NO. 2 of 11

DESIGN OCT. 1974 BY EPG
DRAWN OCT. 1974 BY JLM
CHECKED OCT. 1974 BY DPB
FILE NO. 4-1100-3201

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 1, 1975
ERROL F. DAPP

HIDDEN SPRINGS RANCH NO. 2

west linn, oregon

Street & Storm Sewer Plan

EDWARDS INDUSTRIES, INC. beaverton, oregon

W&H WILSEY & HAM
Suite 4, Portland Center, 222 S.W. Harrison
Portland, Oregon 97201 503 227-0455

AS BUILT 3-2-76

HIDDEN SPRINGS RANCH NO. 2

west linn, oregon

Street & Storm Sewer Profile

EDWARDS INDUSTRIES, INC.

beaverton, oregon

WILSEY & HAM
Suite 4, Portland Center, 222 S.W. Harrison
Portland, Oregon 97201 503 227-0455

REGISTERED PROFESSIONAL ENGINEER OREGON ERROL F. GARY

SHEET NO 3 of 11

DESIGN OCT 1974 BY EFG
DRAWN OCT 1974 BY JLM
CHECKED OCT 1974 BY DFP
FILE NO. 3-100-5201

HIDDEN SPRINGS RANCH NO. 2

Street & Storm Sewer Profile

west linn, oregon

beaverton, oregon

EDWARDS INDUSTRIES, INC.

W&H WILSEY & HAM

Suite 4, Portland Center, 222 S.W. Harrison
Portland, Oregon 97201
503 227-0455

REGISTERED PROFESSIONAL ENGINEER — OREGON — ERROL F. GARR

SHEET NO **4 of 11**

DESIGN OCT 1974 BY EFG
DRAWN OCT 1974 BY JLM
CHECKED OCT 1974 BY DPF
FILE NO. 4-1100-5201

AS BUILT 3-2-76

W&H WILSEY & HAM

Suite 4, Portland Center, 222 S.W. Harrison
Portland, Oregon 97201 503 227-0455

HIDDEN SPRINGS RANCH NO. 2

west linn, oregon

Street & Storm Sewer Profile

EDWARDS INDUSTRIES, INC.

beaverton, oregon

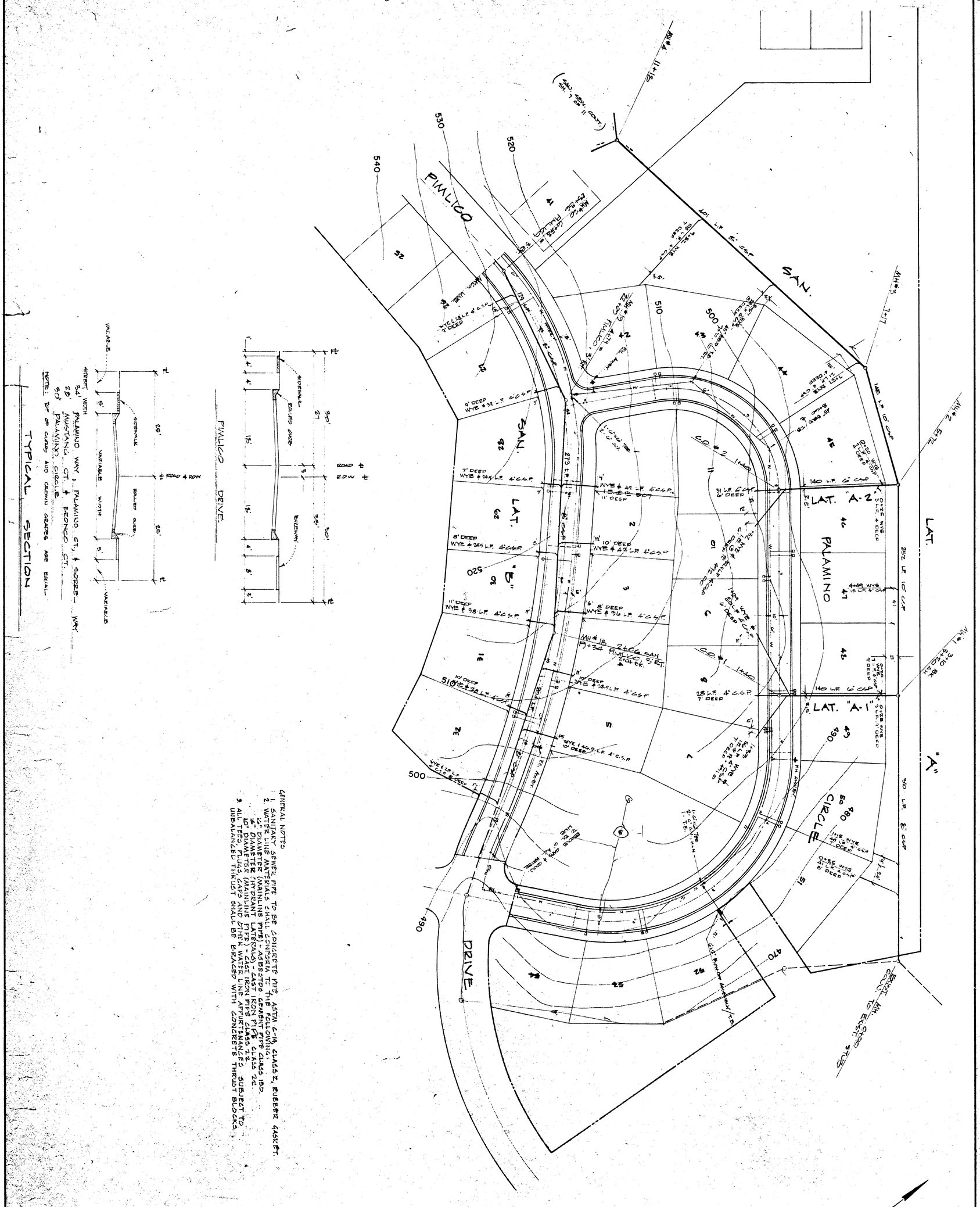
SHEET NO **5 of 11**

DESIGN OCT 1974

DRAWN OCT 1974 BY J.L.M

CHECKED OCT 1974

FILE NO. 4-1100-52.01



AS BUILT 3-2-76

SHEET NO. 6 of 11
DESIGN OCT 1974 BY EPG
DRAWN OCT 1974 BY JLM
CHECKED OCT 1974 BY DFB
FILE NO. 4-1100-5201

REGISTERED PROFESSIONAL ENGINEER OREGON JULY 17, 1979 ERROL F. GANN

HIDDEN SPRINGS RANCH NO. 2

west linn, oregon

Water & Sanitary Sewer Plan

EDWARDS INDUSTRIES, INC. beaverton, oregon

W&H WILSEY & HAM
Suite 4, Portland Center, 222 S.W. Harrison
Portland, Oregon 97201 503 227-0455

AS BUILT 3-2-76

SHEET NO. **7 of 11**
DESIGN OCT 1974 BY EFG
DRAWN OCT 1974 BY JLM
CHECKED OCT 1974 BY DFE
FILE NO. 4-1100-5201

REGISTERED PROFESSIONAL ENGINEER OREGON JULY 17, 1959 ERROL F. GARR

HIDDEN SPRINGS RANCH NO. 2

west linn, oregon

Water & Sanitary Sewer Plan

EDWARDS INDUSTRIES, INC. beaverton, oregon

W&H WILSEY & HAM
Suite 4, Portland Center, 222 S.W. Harrison
Portland, Oregon 97201 503 227-0455

LAT. A-3

MH#4 = 0+00 = 11+18
LAT. 'A'
I.E. = 485.18 (8" IN)
I.E. = 484.98 (10" IN)
I.E. = 484.78 (8" OUT)

MH#4 0+65
I.E. = 500.20 (8" IN)
I.E. = 500.00 (8 OUT)

MH#3 2+70
I.E. = 515.06 (6" IN)
I.E. = 515.06 (6" IN)
I.E. = 514.86 (8" OUT)

LAT. A-1

MH#1 = 0+00 LAT. A-1 =
0+00 LAT. A
I.E. = 468.50 (6" LAT. A-1 IN)
I.E. = 468.50 (10" IN)
I.E. = 468.01 (8" OUT)

C.O. #1 = 1+40 =
I.E. = 483.95 (6" OUT)

LAT. A-2

MH#2 = 0+00 LAT. A-2 =
5+72 LAT. A
I.E. = 471.22 (10" IN)
I.E. = 471.52 (6" LAT. A-2 IN)
I.E. = 471.02 (10" OUT)

C.O. #2 = 1+40 =
I.E. = 480.00 (6" OUT)

LAT. A

MH#1 = 3+20 AH
0+00 LAT. A-1
I.E. = 468.50 (6" LAT. A-1 IN)
I.E. = 468.50 (10" IN)
I.E. = 468.01 (8" OUT)

MH#2 = 5+72 =
0+00 LAT. A-2
I.E. = 471.52 (6" LAT. A-2 IN)
I.E. = 471.22 (10" IN)
I.E. = 471.02 (10" OUT)

MH#3 = 7+17
I.E. = 474.03 (8" IN)
I.E. = 473.83 (10" OUT)

MH#4 = 11+18
I.E. = 485.16 (8" IN - LAT. 'A-3')
I.E. = 484.98 (10" IN)
I.E. = 484.78 (8" OUT)

MH#5 = 11+78 AH
INSIDE DROP MH
I.E. = 481.53 (8" IN) AH
I.E. = 485.53 (10" OUT) PK

MH#6 = 12+23 = 0+00 LAT. 'A-4' & A-5'
I.E. = 500.2 OUT SIDE DROP LAT. 'A' 8"
I.E. = 496.8 (6" IN LAT. 'A-4') 4510
I.E. = 496.6 (6" IN LAT. A-5)
I.E. = 496.4 (8" OUT)

MH#7 = 13+82 =
0+00 LAT. A-6
I.E. = 530.65 (8" LAT. 'A'-6 IN)
I.E. = 530.69 (10" IN)
I.E. = 530.49 (8" OUT)

MH#8 = 14+28 AH
MH#8 = 14+32 PK
I.E. = 531.35 (8" IN)
I.E. = 531.35 (8" IN LAT. 'A'-1)
I.E. = 531.15 (10" OUT)

MH#9 = 17+08
I.E. = 540.17 (10" IN)
I.E. = 539.97 (8" OUT)

MH#10 = 19+82 = 0+00
LAT. A-B
I.E. = 554.50 (8" IN - OUTSIDE DROP)
I.E. = 542.04 (OUTSIDE DROP)
I.E. = 541.84 (10" IN)
I.E. = 541.64 (10" OUT)

MH#11 = 21+10
I.E. = 542.78 (10" STUB IN)
I.E. = 542.78 (10" OUT)

EX. M.H. = 0+00
I.E. = 434.13 (8" IN)
(VERIFY)

EXIST.
EXIST. 8" U.C.P.
EXIST. 10" U.C.P.
EXIST. 12" U.C.P.
EXIST. 15" U.C.P.
EXIST. 18" U.C.P.
EXIST. 24" U.C.P.
EXIST. MANHOLE
EXIST. CATCH BASIN
EXIST. TREE LINE
EXIST. POWER POLE
EXIST. GUY WIRE
EXIST. FENCE LINE
EXIST. ROAD
EXIST. GRAVEL ROAD
EXIST. CONCRETE
EXIST. ASPHALT
EXIST. BUILDING
EXIST. GARAGE
EXIST. CONCRETE DRIVE
EXIST. GRAVEL DRIVE
EXIST. CONCRETE WALK
EXIST. GRAVEL WALK
EXIST. CONCRETE PAD
EXIST. GRAVEL PAD
EXIST. CONCRETE CURB
EXIST. CONCRETE GUTTER
EXIST. CONCRETE CURB & GUTTER
EXIST. ASPHALT CURB
EXIST. ASPHALT CURB & GUTTER
EXIST. ROCK WALL
EXIST. CONCRETE WALL
EXIST. RETAINING WALL
EXIST. CONCRETE RETAINING WALL
EXIST. ROCK RETAINING WALL
EXIST. WOOD RETAINING WALL
EXIST. CONCRETE STEPS
EXIST. WOOD STEPS
EXIST. ROCK STEPS
EXIST. CONCRETE RAMP
EXIST. WOOD RAMP
EXIST. ROCK RAMP
EXIST. CONCRETE PIER
EXIST. WOOD PIER
EXIST. ROCK PIER
EXIST. CONCRETE FOOTING
EXIST. WOOD FOOTING
EXIST. ROCK FOOTING
EXIST. CONCRETE FOUNDATION
EXIST. WOOD FOUNDATION
EXIST. ROCK FOUNDATION
EXIST. CONCRETE SLAB
EXIST. WOOD SLAB
EXIST. ROCK SLAB
EXIST. CONCRETE FLOOR
EXIST. WOOD FLOOR
EXIST. ROCK FLOOR
EXIST. CONCRETE ROOF
EXIST. WOOD ROOF
EXIST. ROCK ROOF
EXIST. CONCRETE WALL
EXIST. WOOD WALL
EXIST. ROCK WALL
EXIST. CONCRETE COLUMN
EXIST. WOOD COLUMN
EXIST. ROCK COLUMN
EXIST. CONCRETE BEAM
EXIST. WOOD BEAM
EXIST. ROCK BEAM
EXIST. CONCRETE LINTEL
EXIST. WOOD LINTEL
EXIST. ROCK LINTEL
EXIST. CONCRETE SILL
EXIST. WOOD SILL
EXIST. ROCK SILL
EXIST. CONCRETE HEADER
EXIST. WOOD HEADER
EXIST. ROCK HEADER
EXIST. CONCRETE JOIST
EXIST. WOOD JOIST
EXIST. ROCK JOIST
EXIST. CONCRETE RAFTER
EXIST. WOOD RAFTER
EXIST. ROCK RAFTER
EXIST. CONCRETE TRUSS
EXIST. WOOD TRUSS
EXIST. ROCK TRUSS
EXIST. CONCRETE ARCH
EXIST. WOOD ARCH
EXIST. ROCK ARCH
EXIST. CONCRETE DOME
EXIST. WOOD DOME
EXIST. ROCK DOME
EXIST. CONCRETE VAULT
EXIST. WOOD VAULT
EXIST. ROCK VAULT
EXIST. CONCRETE CISTERN
EXIST. WOOD CISTERN
EXIST. ROCK CISTERN
EXIST. CONCRETE SEPTIC TANK
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EXIST. ROCK SEPTIC TANK
EXIST. CONCRETE DRAIN FIELD
EXIST. WOOD DRAIN FIELD
EXIST. ROCK DRAIN FIELD
EXIST. CONCRETE DRY WELL
EXIST. WOOD DRY WELL
EXIST. ROCK DRY WELL
EXIST. CONCRETE SUMP
EXIST. WOOD SUMP
EXIST. ROCK SUMP
EXIST. CONCRETE CATCH BASIN
EXIST. WOOD CATCH BASIN
EXIST. ROCK CATCH BASIN
EXIST. CONCRETE MANHOLE
EXIST. WOOD MANHOLE
EXIST. ROCK MANHOLE
EXIST. CONCRETE INLET
EXIST. WOOD INLET
EXIST. ROCK INLET
EXIST. CONCRETE OUTLET
EXIST. WOOD OUTLET
EXIST. ROCK OUTLET
EXIST. CONCRETE HEADWALL
EXIST. WOOD HEADWALL
EXIST. ROCK HEADWALL
EXIST. CONCRETE WINGWALL
EXIST. WOOD WINGWALL
EXIST. ROCK WINGWALL
EXIST. CONCRETE APRON
EXIST. WOOD APRON
EXIST. ROCK APRON
EXIST. CONCRETE FLUME
EXIST. WOOD FLUME
EXIST. ROCK FLUME
EXIST. CONCRETE CHUTE
EXIST. WOOD CHUTE
EXIST. ROCK CHUTE
EXIST. CONCRETE SPILLWAY
EXIST. WOOD SPILLWAY
EXIST. ROCK SPILLWAY
EXIST. CONCRETE DAM
EXIST. WOOD DAM
EXIST. ROCK DAM
EXIST. CONCRETE LEVEE
EXIST. WOOD LEVEE
EXIST. ROCK LEVEE
EXIST. CONCRETE DIKE
EXIST. WOOD DIKE
EXIST. ROCK DIKE
EXIST. CONCRETE BERM
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EXIST. CONCRETE SWALE
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EXIST. CONCRETE TUNNEL
EXIST. WOOD TUNNEL
EXIST. ROCK TUNNEL
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EXIST. WOOD SHED
EXIST. ROCK SHED
EXIST. CONCRETE BARN
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EXIST. ROCK BARN
EXIST. CONCRETE SILO
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EXIST. ROCK TENT
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EXIST. ROCK OCTANE
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EXIST. WOOD NONANE
EXIST. ROCK NONANE
EXIST. CONCRETE DECANE
EXIST. WOOD DECANE
EXIST. ROCK DECANE
EXIST. CONCRETE UNDECANE
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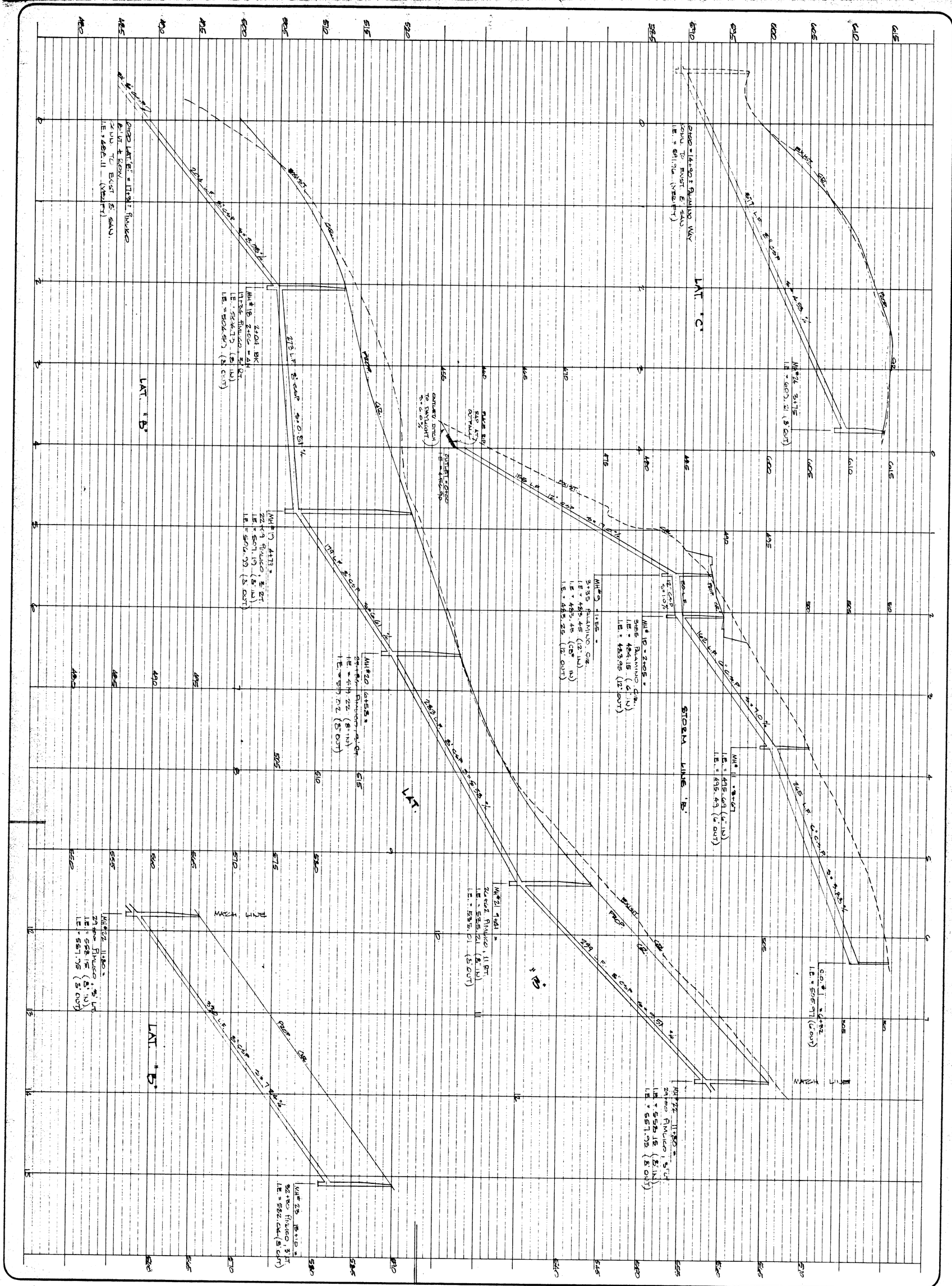


AS BUILT 3-2-76

SHEET NO. **9 of 11**

DESIGN OCT 1974 BY BPG
DRAWN OCT 1974 BY JLM
CHECKED OCT 1974 BY DPB
FILE NO. 4-1100-3201

REGISTERED PROFESSIONAL ENGINEER OREGON JULY 13, 1960 ERROL F. GANN

HIDDEN SPRINGS RANCH NO. 2

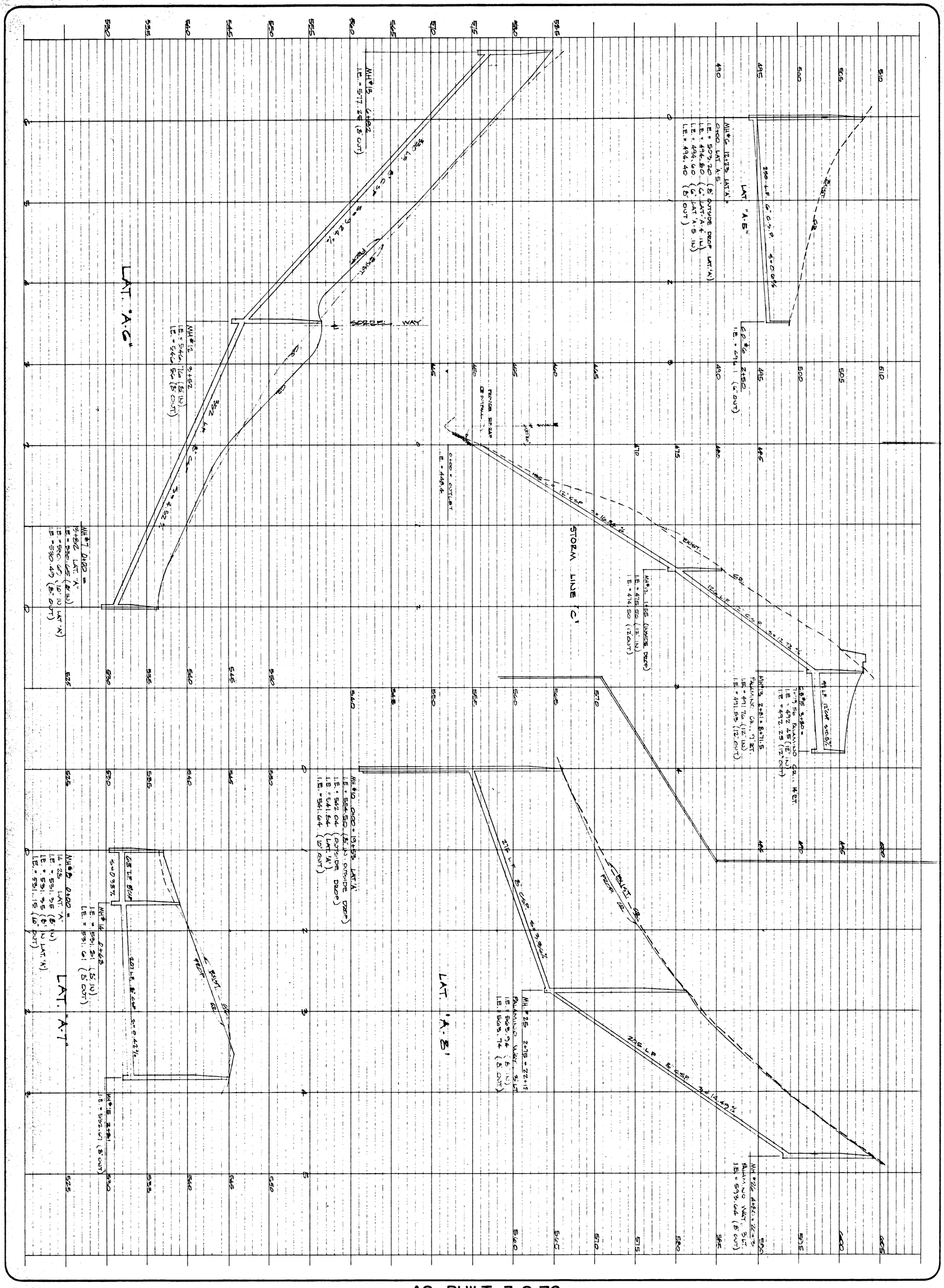
west linn, oregon

Storm & Sanitary Sewer Profile

EDWARDS INDUSTRIES, INC. beaverton, oregon

W&H WILSEY & HAM

Suite 4, Portland Center, 222 S.W. Harrison
Portland, Oregon 97201 503 227-0455



AS BUILT 3-2-76

SHEET NO **10 of 11**

DESIGN OCT 1974 BY FPG
DRAWN OCT 1974 BY JLM
CHECKED OCT 1974 BY DPB
FILE NO. #1100-320

REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 11, 1969 — ERROL F. GANN

HIDDEN SPRINGS RANCH NO. 2

west linn, oregon

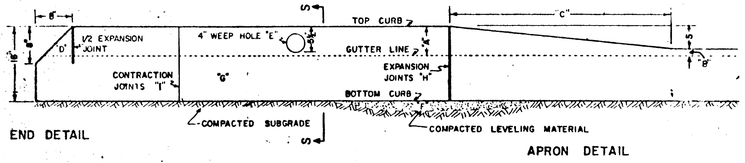
Storm & Sanitary Sewer Profile

EDWARDS INDUSTRIES, INC. beaverton, oregon

WILSEY & HAM

Suite 4, Portland Center, 222 S.W. Harrison
Portland, Oregon 97201 503 227-0455

GENERAL PURPOSE CURB

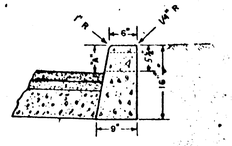


END DETAIL

APRON DETAIL

PLAN

SCALE: 1/16" = 1'



SECTION S-S

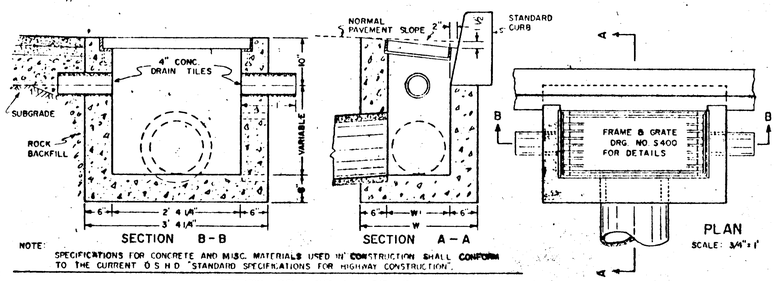
NOTES:
- "A" CURB EXPOSER, STANDARD 6", VARY AS SHOWN ON TYPICAL SECTIONS, OR AS DIRECTED.
- "B" CURB EXPOSER AT DRIVEWAY, STANDARD 1", OR AS DIRECTED.
- "C" DRIVEWAY APRON, STANDARD RESIDENTIAL 4', COMMERCIAL 8', OR AS DIRECTED.
- "D" END CURB SECTION, TO BE REMOVED UPON EXTENSION OF CURB.
- "E" WEEP HOLE, 4" PLASTIC DRAIN PIPE OR APPROVED EQUIVILANT, LOCATED AS INDICATED ON THE PLANS OR AS DIRECTED
- "F" LEVELING COURSE, 3/4" X 0" OR 1/2"X 0" CRUSHED ROCK.
- "G" PORTLAND CEMENT CONCRETE, "CLASS "A" 3300 PSI.
- "H" EXPANSION JOINTS, MAX 45' AND LOCATIONS AS DIRECTED
- "I" CONTRACTION JOINTS, MAX. 15' AND LOCATIONS AS DIRECTED.

SPECIFICATIONS FOR CONCRETE AND MISC. MATERIALS USED IN CURB CONSTRUCTION, SHALL CONFORM TO THE CURRENT O.S.H.D. "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION".

CLACKAMAS COUNTY
DEPARTMENT OF PUBLIC WORK
STANDARD
GENERAL PURPOSE CUR
TYPE "C"
JOHN C McINTYRE
DIRECTOR OF PUBLIC WORKS

DRG. S 200

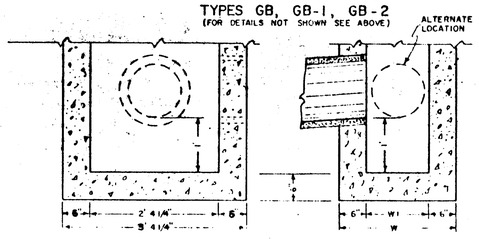
TYPES G, G-1, G-2



NOTE: SPECIFICATIONS FOR CONCRETE AND MISC. MATERIALS USED IN CONSTRUCTION SHALL CONFORM TO THE CURRENT O.S.H.D. "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION".

TYPES GB, GB-1, GB-2

(FOR DETAILS NOT SHOWN SEE ABOVE)

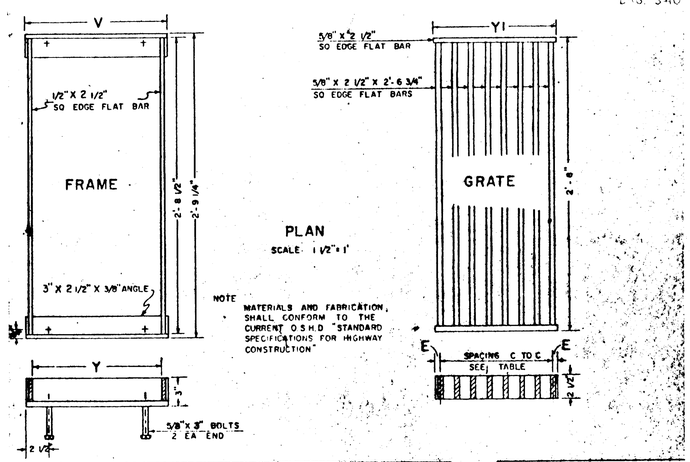


INLET TYPE	W	W1
GB-1	2' 8 7/8"	1' 8 7/8"
GB-2	3' 5 3/8"	2' 3 3/8"

NOTE: A MAXIMUM DEVIATION FROM PLAN DIMENSIONS OF ONE INCH, AT THE INLET FLOOR, SHALL BE ALLOWED FOR TAPERING OF FORMS USED IN CONSTRUCTION OF CONCRETE INLETS.

CLACKAMAS COUNTY
DEPARTMENT OF PUBLIC WORKS
STANDARD
CONCRETE INLET
DETAILS
JOHN C McINTYRE
DIRECTOR OF PUBLIC WORKS

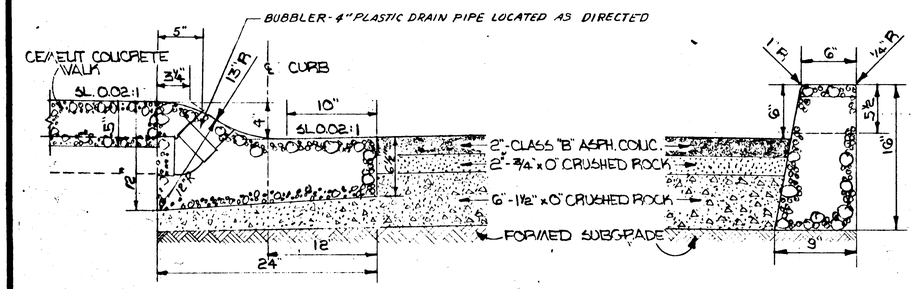
DRG. S 410



NOTE
MATERIALS AND FABRICATION, SHALL CONFORM TO THE CURRENT O.S.H.D. "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION"

INLET TYPE	V	Y	Y1	E	SPACING C TO C	NO OF BARS	REMARKS
G, GB, CG	1'-3 1/4"	1'-1 7/8"	1'-1 1/2"	5/8"	1 3/4"	8	
G-1, GB-1, CG-1	1'-10 1/4"	1'-8 7/8"	1'-8 1/2"	5/8"	1 3/4"	12	
G-2, GB-2, CG-2	2'-4 3/4"	2'-3 3/8"	2'-3"	#8"	1 3/4"	8	2 RATES
G-2M, D	2'-4 3/4"	2'-3 3/8"	2'-3"	1 1/2"	3"	9	

CLACKAMAS COUNTY
DEPARTMENT OF PUBLIC WORK
STANDARD
FRAME & GRATE
DETAILS
JOHN C McINTYRE
DIRECTOR OF PUBLIC WORKS



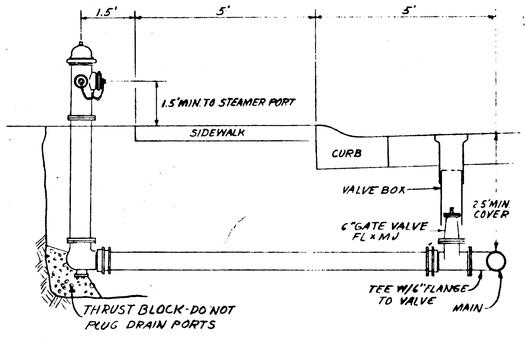
ROLLED CURB

PAVEMENT SECTION

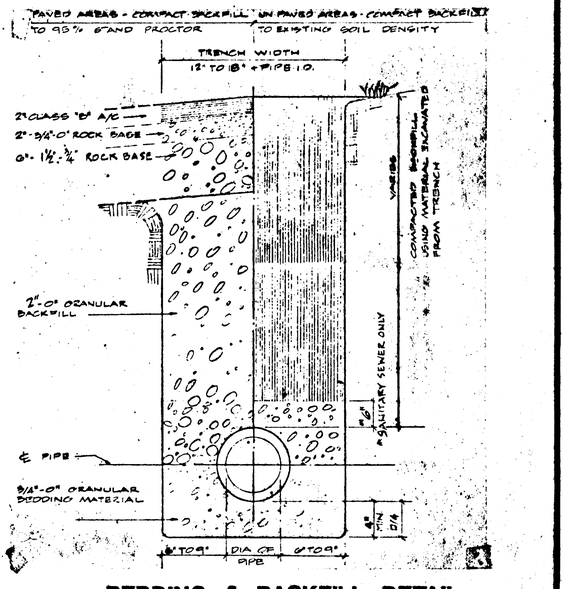
VERTICAL CURB

NOTE: SPECIFICATIONS FOR CONCRETE CURBS, ASPHALTIC CONCRETE, CRUSHED ROCK, AND SUBGRADE CONSTRUCTION SHALL CONFORM TO THE CURRENT O.S.H.D. "STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION."

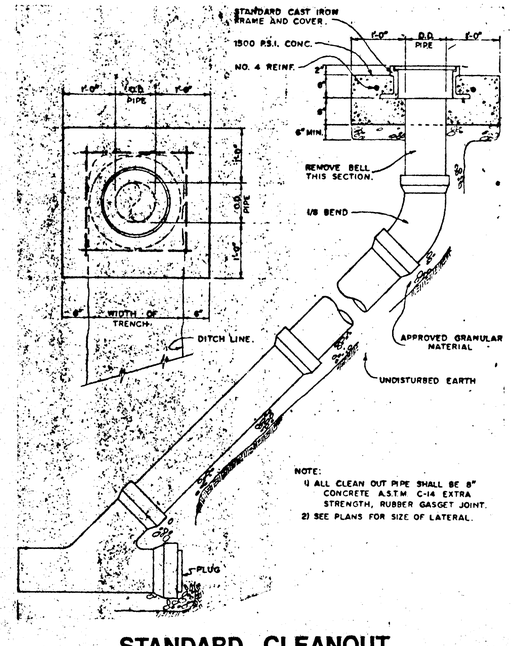
NOTE: WHERE PARKWAY EXISTS BETWEEN SIDEWALK & CURB, PLACE HYDRANT 2 FEET BACK OF CURB.



STANDARD FIRE HYDRANT

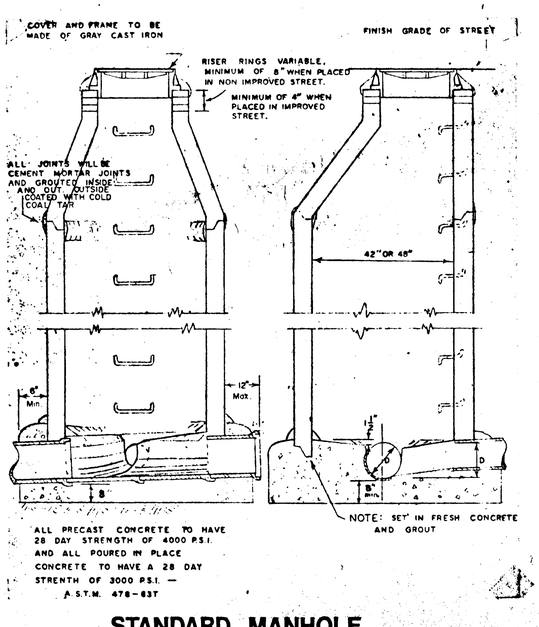


BEDDING & BACKFILL DETAIL
STORM & SANITARY SEWERS



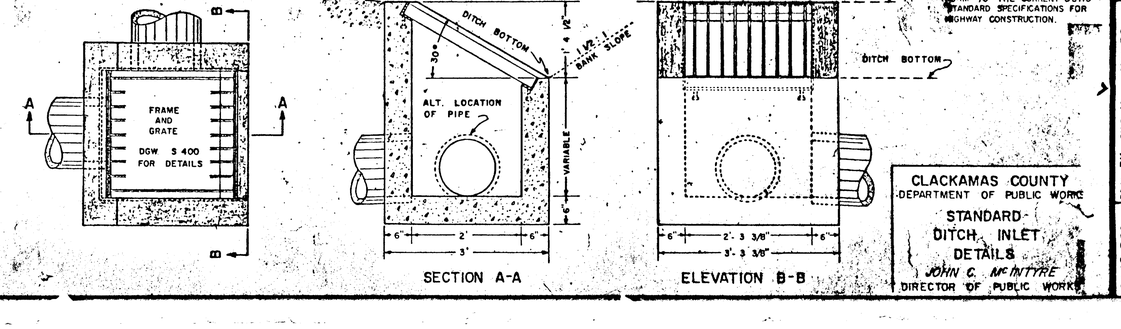
NOTE:
1) ALL CLEAN OUT PIPE SHALL BE 8" CONCRETE A.S.T.M C-14 EXTRA STRENGTH, RUBBER GASGET JOINT.
2) SEE PLANS FOR SIZE OF LATERAL.

STANDARD CLEANOUT



ALL PRECAST CONCRETE TO HAVE 28 DAY STRENGTH OF 4000 P.S.I. AND ALL POURED IN PLACE CONCRETE TO HAVE A 28 DAY STRENTH OF 3000 P.S.I. — A.S.T.M. 478-63T

STANDARD MANHOLE



NOTE
SPECIFICATIONS FOR CONCRETE AND MISC MATERIALS USED IN CONSTRUCTION SHALL CONFORM TO THE CURRENT O.S.H.D. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

CLACKAMAS COUNTY
DEPARTMENT OF PUBLIC WORKS
STANDARD
DITCH INLET
DETAILS
JOHN C. McINTYRE
DIRECTOR OF PUBLIC WORKS

W&H WILSEY & HAM
Suite 4, Portland Center, 222 S.W. Harrison
Portland, Oregon 97201 503 227-0455

REGISTERED PROFESSIONAL ENGINEER OREGON FRANK E. GU

STANDARD DETAILS
HIDDEN SPRINGS RANCH DIVISION NO. 2
WEST LINN OREGON

JOB NO 083	DRN PK CHD JL	APP'D EG		
DATE 2-76	REVISIONS		BY	DATE
SHEET 11				