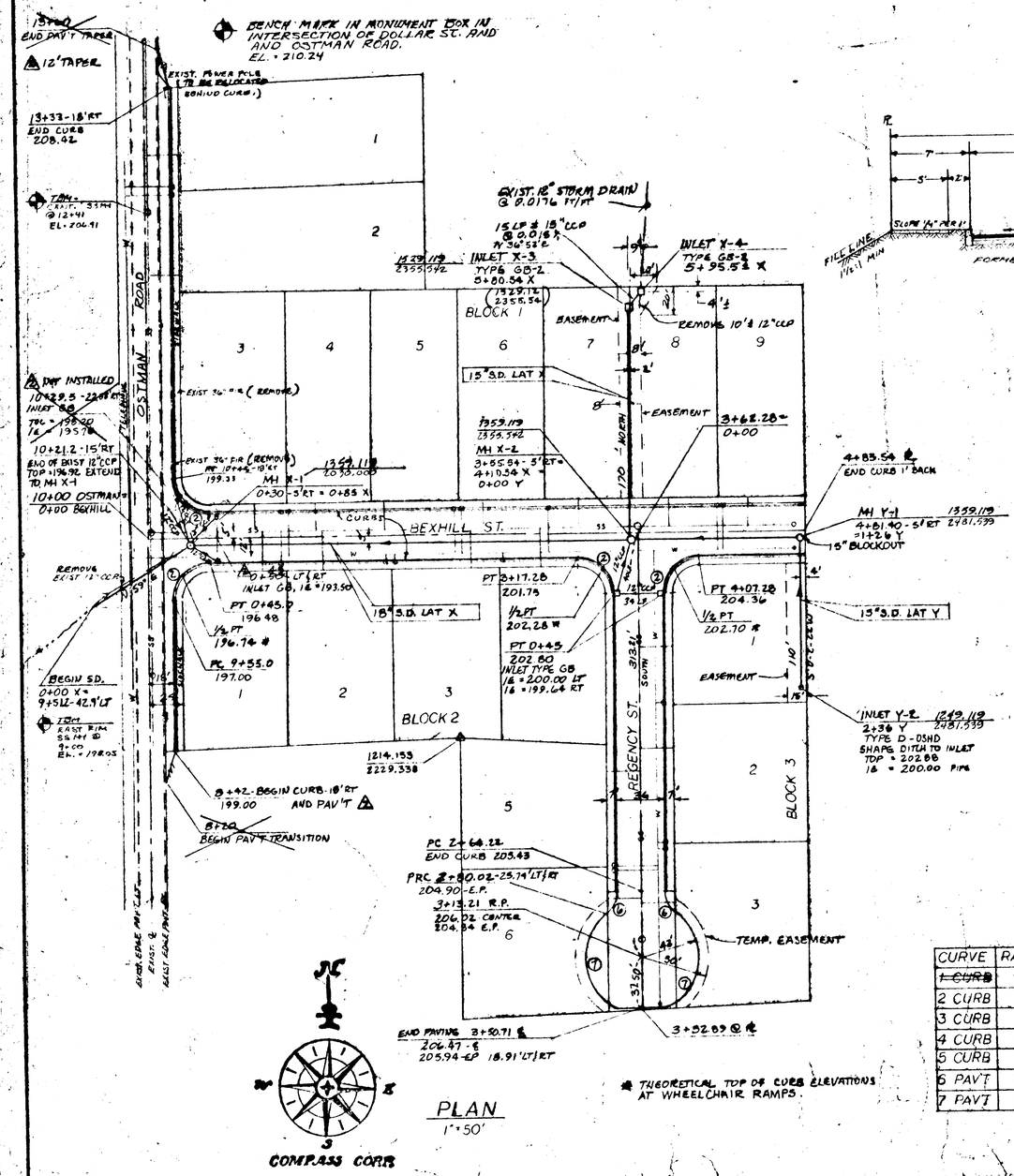
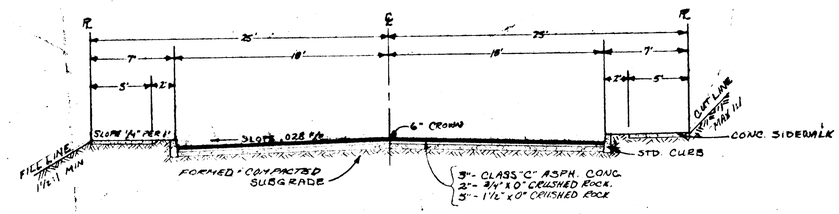
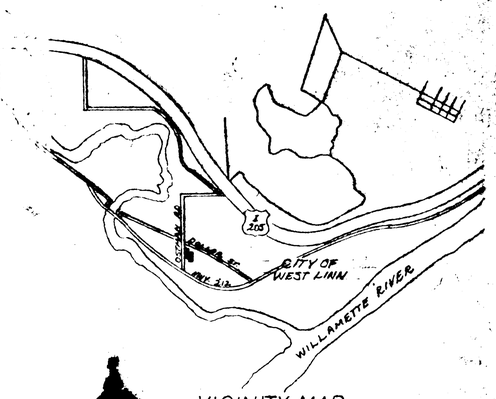


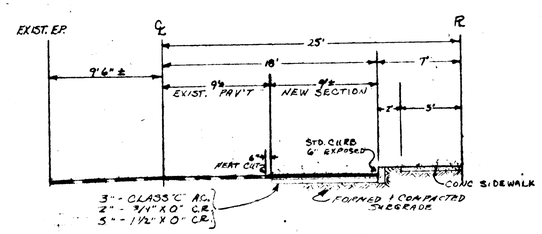
PLAN
1" = 50'



STREET SECTION
1" = 6'



VICINITY MAP
1" = 1/2 MILE



OSTMAN ROAD SECTION
1" = 6'

CURVE	RADIUS	DELTA	LENGTH
~~1 CURB~~	~~27~~	~~69°26'57"~~	~~32.73'~~
2 CURB	27	90°00'00"	42.41'
3 CURB	4	80°33'03"	5.62'
4 CURB	4	60°00'00"	4.19'
5 CURB	4	120°00'00"	8.38'
6 PAVT	20	52°12'01"	18.22'
7 PAVT	42	115°26'05"	84.62

STREET AND STORM DRAINAGE NOTES:

- ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE CITY OF WEST LINN PUBLIC WORKS DEPARTMENT O.S.H.D. AND A.P.W.A. OREGON CHAPTER SPECIFICATIONS.
- CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL RELOCATE ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
- CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
- EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY THE CONTRACTOR. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST.
- STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH DIVISION TWO (2) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, A.P.W.A. OREGON CHAPTER.
- MATERIAL IN SOFT SPOTS WITHIN THE ROADWAY SHALL BE REMOVED TO THE DEPTH REQUIRED TO PROVIDE A FIRM FOUNDATION AND SHALL BE REPLACED WITH 2 1/4 INCHES MINUS CRUSHED ROCK. THE ENTIRE SUBGRADE SHALL BE THOROUGHLY COMPACTED AT THE LOWEST CONTENT AT WHICH A HANDFUL OF THE SOIL CAN BE MOLDED BY A FIRM CLOSING OF THE HAND.
- CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN SUBGRADING IS COMPLETED AND 24 HOURS PRIOR TO PLACEMENT OF ROCK BASE MATERIAL AND 24 HOURS PRIOR TO FINAL PAVING FOR INSPECTION OF THE WORK.
- ENGINEER RESERVES THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMMODATE UTILITIES OR EXISTING SEWER LINES AS REQUIRED.
- ASPHALT CONCRETE PAVEMENT TO BE CLASS "C". MIX TO BE DESIGNED FROM A JOB MIX FORMULA APPROVED BY THE O.S.H.D. FOR MATERIALS USED. CONTRACTOR TO PROVIDE ENGINEER WITH CERTIFICATE OF COMPLIANCE FROM ASPHALT PAVEMENT PLANT.
- ASPHALTIC CONCRETE IS TO BE PUT ON IN TWO (2) LIFTS AND COMPACTED TO 1 1/2 INCH PER LIFT.
- CONCRETE PIPE SHALL BE ASTM C 14 CLASS 2 NONREINFORCED CONCRETE PIPE.
- PIPE BEDDING AND TRENCH GRANULAR BACKFILL IN PAVED AREAS SHALL CONFORM WITH GRANULAR BEDDING AND BACKFILL REQUIREMENTS OF A.P.W.A. DIVISION III, SECTION 61-3.03 B2 AND 61-3.05, COMPACTION TO BE MECHANICAL OR VIBRATORY TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHD T-99 IN ACCORDANCE WITH A.P.W.A. DIVISION III, SECTION 61-3.06. WATER SETTLEMENT WILL BE ALLOWED WITH GRANULAR BACKFILL.
- TRENCH BACKFILL OUTSIDE OF PAVED AREAS MAY BE EXCAVATED TRENCH MATERIAL WITH COMPACTION TO 85% MAXIMUM DENSITY. BEDDING TO BE CLASS "B".

REGISTERED PROFESSIONAL ENGINEER 7807 OREGON JULY 13, 1977 Gerald Carlyon Kammerzell

STURBRIDGE GLEN
WEST LINN, OREGON

DATE	NO.	REVISION
12/19/77	2	AS-BUILT
8/3/77	1	CURB, TREE REMOVAL

DRAWN B.M.C. | SCALE AS SHOWN | DATE JULY '77 | FILE 76-850-815

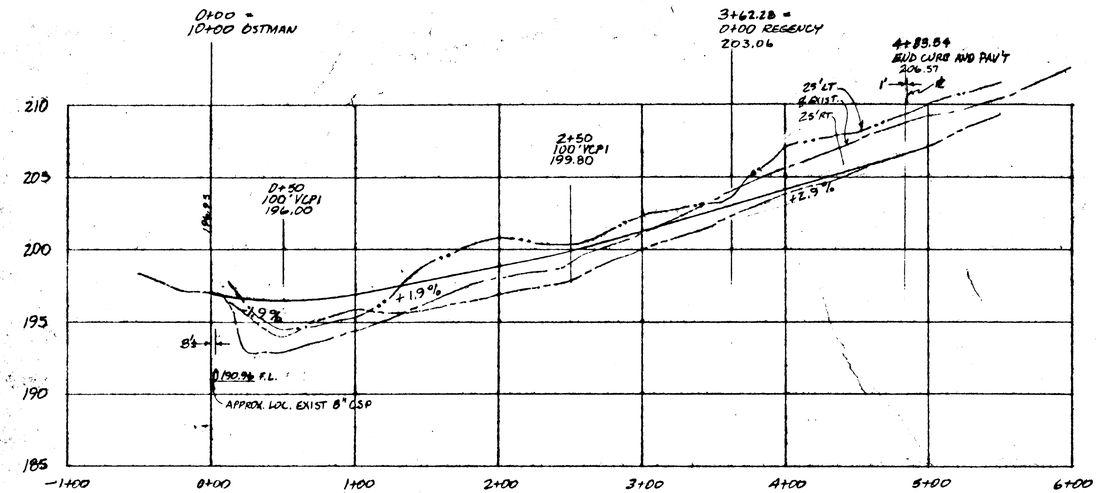
COMPASS CORPORATION
ENGINEERING - SURVEYING - PLANNING
6564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

BETTY HART, BEVERLY NEAL, & FRED HARTNELL
6915 S.E. LAKE ROAD TELEPHONE - 659-4530
MILWAUKIE, OREGON 97222

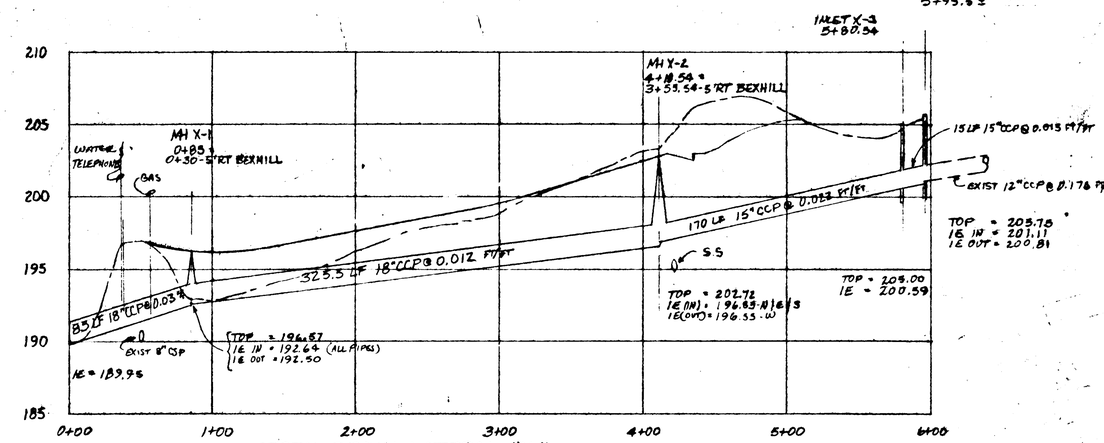
ROAD AND STORM DRAIN IMPROVEMENTS PLAN

1/4

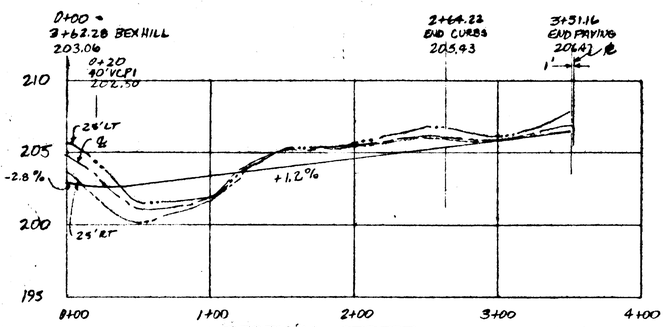
Willamette Print & Blueprint Company



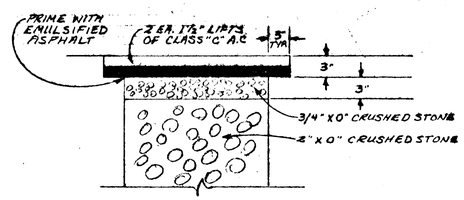
BEXHILL STREET
1"=50' HORIZ 1"=5' VERT



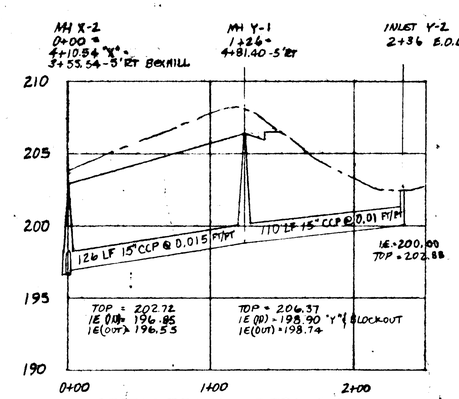
STORM DRAIN LATERAL "X"
1"=50' HORIZ 1"=5' VERT



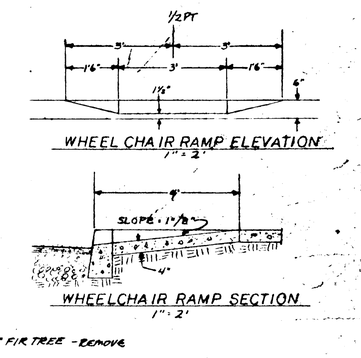
REGENCY STREET
1"=50' HORIZ 1"=5' VERT

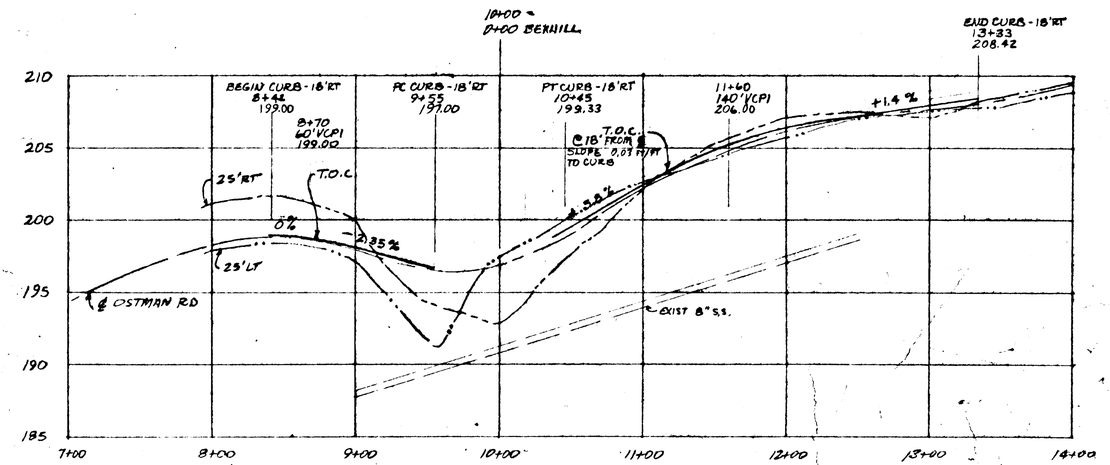


A.C. PAVEMENT REPLACEMENT DETAIL
NTS

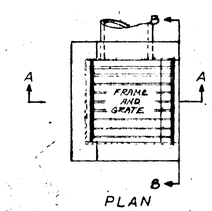


STORM DRAIN LATERAL "Y"
1"=50' HORIZ 1"=5' VERT

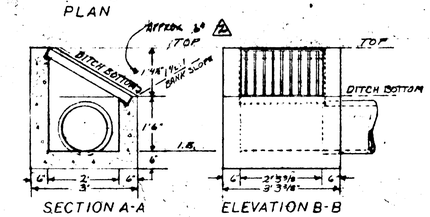




OSTMAN ROAD
1"=50' HORIZ 1"=5' VERT

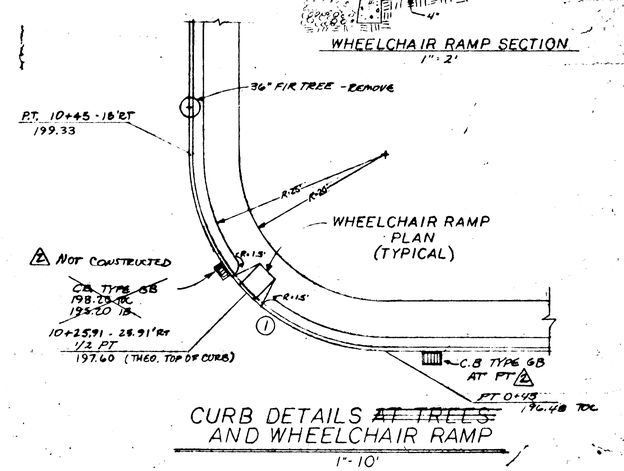


PLAN



SECTION A-A ELEVATION B-B

STANDARD DITCH INLET DETAIL
1/2"=1'



CURB DETAILS ~~AT TREES~~ AND WHEELCHAIR RAMP
1"=10'

STURBRIDGE GLEN
WEST LINN, OREGON

REGISTERED PROFESSIONAL ENGINEER OREGON

DATE	NO.	REVISION
12/15/77	2	AS BUILT
8/15/77	1	CURB DETAIL, SD. X

DRAWN B. Mc
SCALE AS SHOWN DATE JULY, '77
FILE 76 - 850 - 815

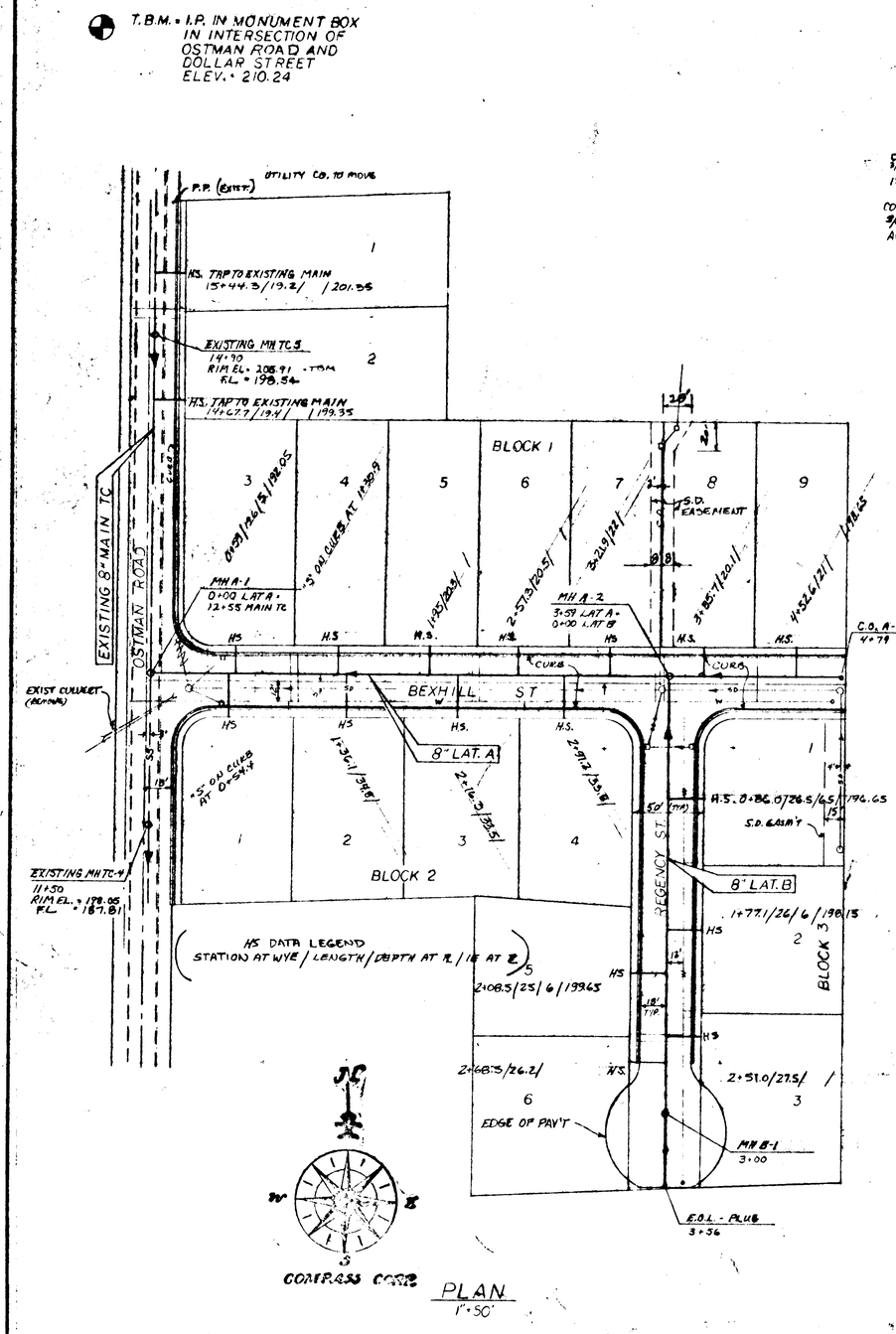
COMPASS CORPORATION
ENGINEERING · SURVEYING · PLANNING
6564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

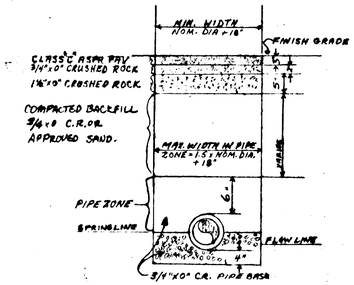
BETTY HART, BEVERLY NEAL, & FRED HARTNELL
6915 S.E. LAKE ROAD
MILWAUKIE, OREGON 97222 TELEPHONE: 659-4530

ROAD AND STORM DRAIN IMPROVEMENTS PROFILE

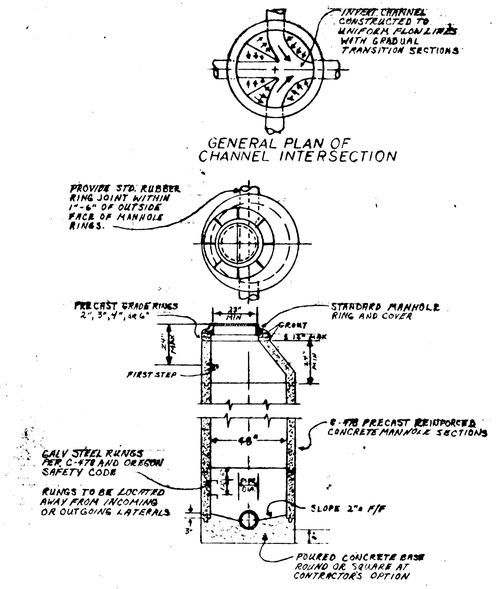
2/4

Willamette Print & Blueprint Company

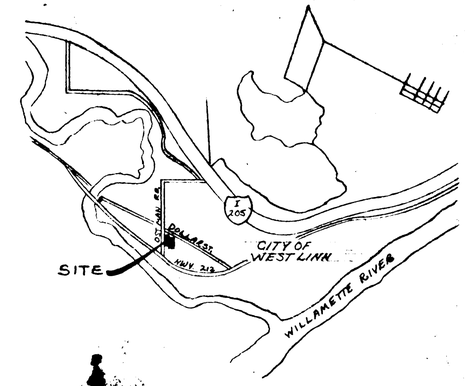




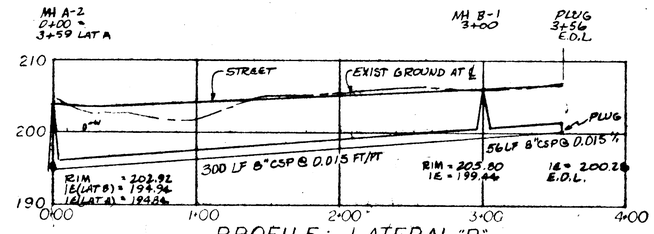
CLASS "B" EXCAVATION & BACKFILL
(PAVED AREAS)
NTS



STANDARD MANHOLE DETAILS
NTS

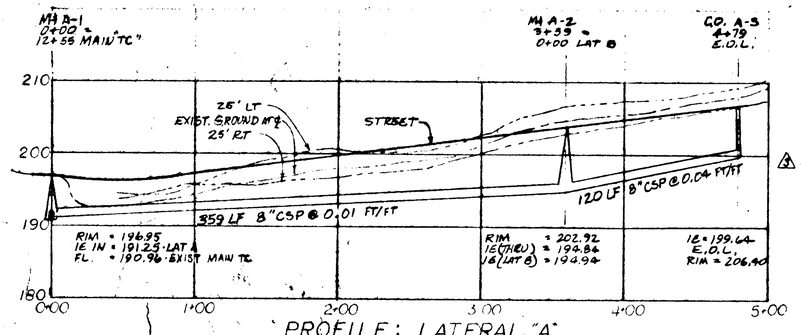


VICINITY MAP
1" = 1/2 MILE



PROFILE: LATERAL "B"
1" = 50' HORIZ 1" = 10' VERT.

NOT DONE



PROFILE: LATERAL "A"
1" = 50' HORZ 1" = 10' VERT.

NOT DONE

NOTES:

- CONSTRUCTION SHALL CONFORM WITH THE CITY OF WEST LINN AND A.P.W.A. SPECIFICATIONS FOR CONSTRUCTION OF SANITARY SEWERS.
- CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
- ALL CONCRETE SANITARY SEWER PIPE SHALL BE ASTM C 14, CLASS 2 NONREINFORCED CONCRETE PIPE WITH RUBBER GASKETS.
- CONTRACTOR TO LOCATE ALL UTILITIES BEFORE STARTING CONSTRUCTION AND SHALL RELOCATE ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
- EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY CONTRACTOR. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST.
- ENGINEER RESERVES THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMMODATE UTILITIES OR EXISTING SEWER LINES AS REQUIRED.
- BUILDING SERVICE CONNECTIONS TO BE 6 INCH SEWER PIPE AND SHALL EXTEND TO PROPERTY LINE OF LOT BEING SERVED.
- SERVICE CONNECTION TAPS INTO EXISTING SEWER LINE SHALL BE 4 INCH C.I.P. SADDLES REQUIRED.
- SERVICE CONNECTION TO SLOPE 2% MINIMUM UP TO FUTURE HOUSE LOCATION FORM SEWER LATERAL OR MAIN. MAXIMUM FLOW LINE ELEVATION OF HOUSE SERVICE AT PROPERTY LINE SHOWN IN PARENTHESIS WHERE CRITICAL.
- CONTRACTOR SHALL PREPARE A PRINT FOR THE ENGINEER SHOWING AS CONSTRUCTED DATA: STATION OF TEE ALONG SEWER, LENGTH OF CONNECTION AND DEPTH OF SERVICE CONNECTION AT PROPERTY LINE OR END OF SERVICE AND ANY CHANGES MADE DURING CONSTRUCTION.
- PIPE BEDDING AND TRENCH GRANULAR BACKFILL IN PAVED AREAS SHALL CONFORM WITH GRANULAR BEDDING AND BACKFILL REQUIREMENTS OF A.P.W.A. DIV. III, SECTION 61-3.03 B2 AND 61-3.05. COMPACTION TO BE MECHANICAL OR VIBRATORY TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHO T-99 IN ACCORDANCE WITH A.P.W.A. DIV. III, SECTION 61-3.05. WATER SETTLEMENT WILL BE ALLOWED IN PAVED AREAS WITH GRANULAR BACKFILL.
- STATIONING AND DISTANCES SHOWN ON PLAN AND PROFILE ARE HORIZONTAL AND NOT SLOPE DISTANCE.
- ALL SERVICE BRANCHES TO BE WITH WYES AND 1/8 BENDS. NO TEES ALLOWED.
- SERVICES TO BE MARKED WITH A 2x4 PAINTED WHITE WITH DEPTH WRITTEN ON END. MINIMUM OF 2 FEET EXPOSED.
- MANHOLE COVERS SHALL MEET ALL REQUIREMENTS OF A.S.T.M. A. 48. THE COVER SHALL BE SOLID WITH ONE 3/4-INCH HOLE IN ADDITION TO THE SLOT FOR A PICK OR LIFTING TOOL. FRAMES AND COVERS SHALL BE COATED WITH A BLOCK BITUMINOUS MATERIALS ALL COVERS SHALL CARRY THE LETTER "S" OR THE WORD "SEWER" EITHER RAISED OR RECESSED A MINIMUM OF 1/8-INCH.

REGISTERED PROFESSIONAL ENGINEER 1692 OREGON JULY 13, 1979 Donald Carlyle Kimberlin

STURBRIDGE GLEN
WEST LINN, OREGON

DATE	NO.	REVISION
12-7-77	3	AS-BUILT DATA
8/22/77	2	APPROVAL STICKERS
8/15/77	1	TRENCH SECTION, MH DIA, NOTES

DRAWN B. MC
SCALE AS SHOWN DATE JULY, '77
FILE 76 - 850 - 815

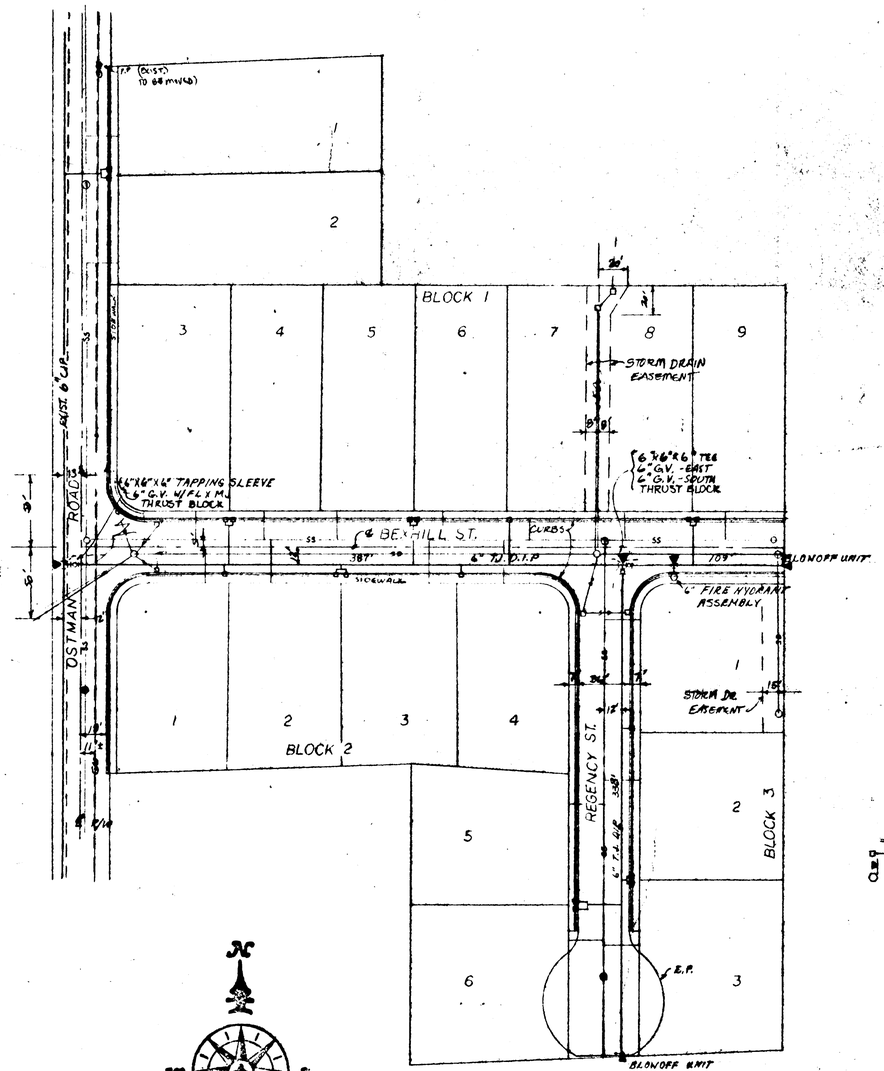
COMPASS CORPORATION
ENGINEERING - SURVEYING - PLANNING
6564 S.E. LAKE ROAD, MILWAUKIE, OREGON 97222

BETTY HART, BEVERLY NEAL, & FRED HARTNELL
6915 S.E. LAKE ROAD
MILWAUKIE, OREGON

SANITARY SEWER IMPROVEMENTS
PLAN AND PROFILES

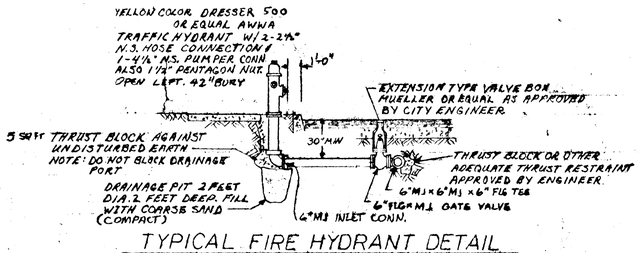
3/4

Willamette Print & Blueprint Company

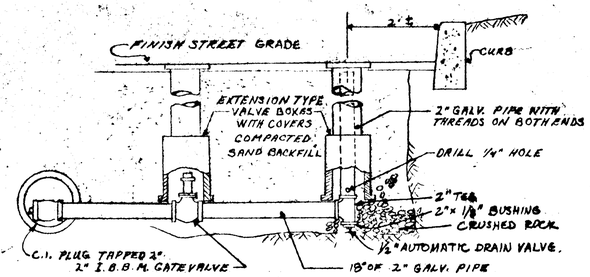


COMPASS CORP.

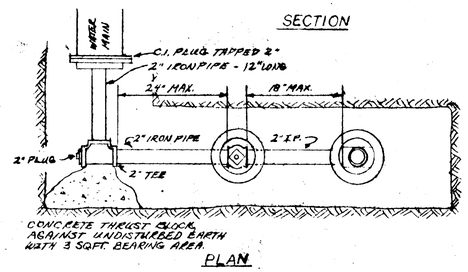
PLAN
1" = 50'



TYPICAL FIRE HYDRANT DETAIL
N.T.S.

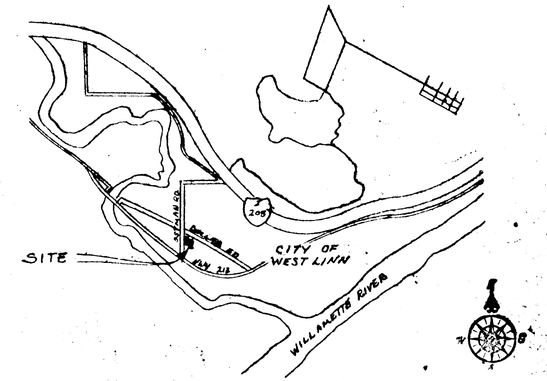


SECTION



PLAN

STANDARD BLOWOFF UNIT
NTS



VICINITY MAP
1" = 1/2 MILE

LEGEND

- WATER SERVICES
- THRUST BLOCK
- FIRE HYDRANT

3 NOTE: CONTRACTOR USED P.V.C. WATER PIPE INSTEAD OF DUCTILE IRON WITH APPROVAL OF CITY. DETAILS AND NOTES APPLYING TO DUCTILE IRON ARE THEREFORE NOT APPLICABLE.

NOTES:

- CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL CONSTRUCT THE WATERMAIN TO AVOID CONFLICT WITH EXISTING UTILITES.
- CONTRACTOR TO OBTAIN ALL PERMITS.
- ALL WORK AND MATERIALS TO CONFORM WITH CITY OF WEST LINN, THE LATEST EDITION OF OREGON STATE HEALTH DIVISION ADMINISTRATIVE RULES, CHAPTER 333, AND A.P.W.A. STANDARDS.
- ALL PIPE TO BE MINIMUM COVER OF 30 INCHES BELOW FUTURE STREET GRADES.
- ALL MAINS TO BE CLEANED AND FLUSHED WITH POTABLE WATER PRIOR TO DISINFECTION AND TESTING.
- PIPELINE TO BE TESTED AT 150 PSI AND HELD AT THAT PRESSURE FOR 2 HOURS. THE ALLOWABLE LEAKAGE PER 1000 FEET OF PIPELINE SHALL BE: 6-INCH - 1 GALLON, 4-INCH - .67 GALLON.
- PIPELINE TO BE THOROUGHLY DISINFECTED AND FLUSHED IN ACCORDANCE WITH A.W.W.A. STANDARD C 601.
- PIPELINE TO BE TYTON JOINT DUCTILE IRON PIPE CLASS 52 AND SHALL CONFORM TO ASTM C110, C111, C150, AND C151. (CEMENT MORTAR LINED)
- CONCRETE THRUST BLOCKS WITH A MINIMUM OF 3 SQUARE FEET OF BEARING SURFACE AGAINST UNDISTURBED SOIL TO BE CONSTRUCTED AT ALL TEES, BENDS AND BLOWOFFS.
- THRUST RESTRAINT SHALL BE PROVIDED AT FIRE HYDRANTS BY RESTRAINED JOINTS, THRUST BLOCKS OR TIE RODS.
- CORPORATION STOPS SHALL HAVE A.W.W.A. THREAD INLETS AND COPPER FLARE FITTING OUTLETS.
- CURB STOPS SHALL HAVE COPPER INLETS AND M.I.P. OUTLETS.
- HOUSE SERVICE TO BE COPPER TYPE "K" SEAMLESS SOFT ANNEALED. SINGLE SERVICES TO BE 3/4 INCH. DOUBLE SERVICES TO BE 1 INCH.
- METER BOXES TO BE NO. 1 METER BOX AS MANUFACTURED BY METER BOX EQUIPMENT COMPANY, TIGARD, OREGON.
- COPPER TUBE BENDS TO BE SMOOTH RADIUS.
- SERVICE TAPS TO BE AT LEAST 18 INCHES APART.
- CONTRACTOR TO INSTALL PIPELINE AND HOUSE SERVICES TO AND INCLUDING CURB STOPS AND METER BOXES.

REGISTERED PROFESSIONAL ENGINEER 7692 OREGON JULY 19, 1977 Gerald R. Kammerer

STURBRIDGE GLEN
WEST LINN, OREGON

DATE	NO.	REVISION
12/19/77	3	AS BUILT
8/22/77	2	APPROVAL STICKERS
8/19/77	1	SINGLE SERVICES TO DOUBLE, CL 52 DIP

DRAWN B. MF
SCALE AS SHOWN DATE JULY, '77
FILE 76 - 850 - 81B

COMPASS CORPORATION
ENGINEERING · SURVEYING · PLANNING
8564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

BETTY HART, BEVERLY NEAL, & FRED HARTNELL
6915 S.E. LAKE ROAD
MILWAUKIE, OREGON 97222 TELEPHONE: 659-4530

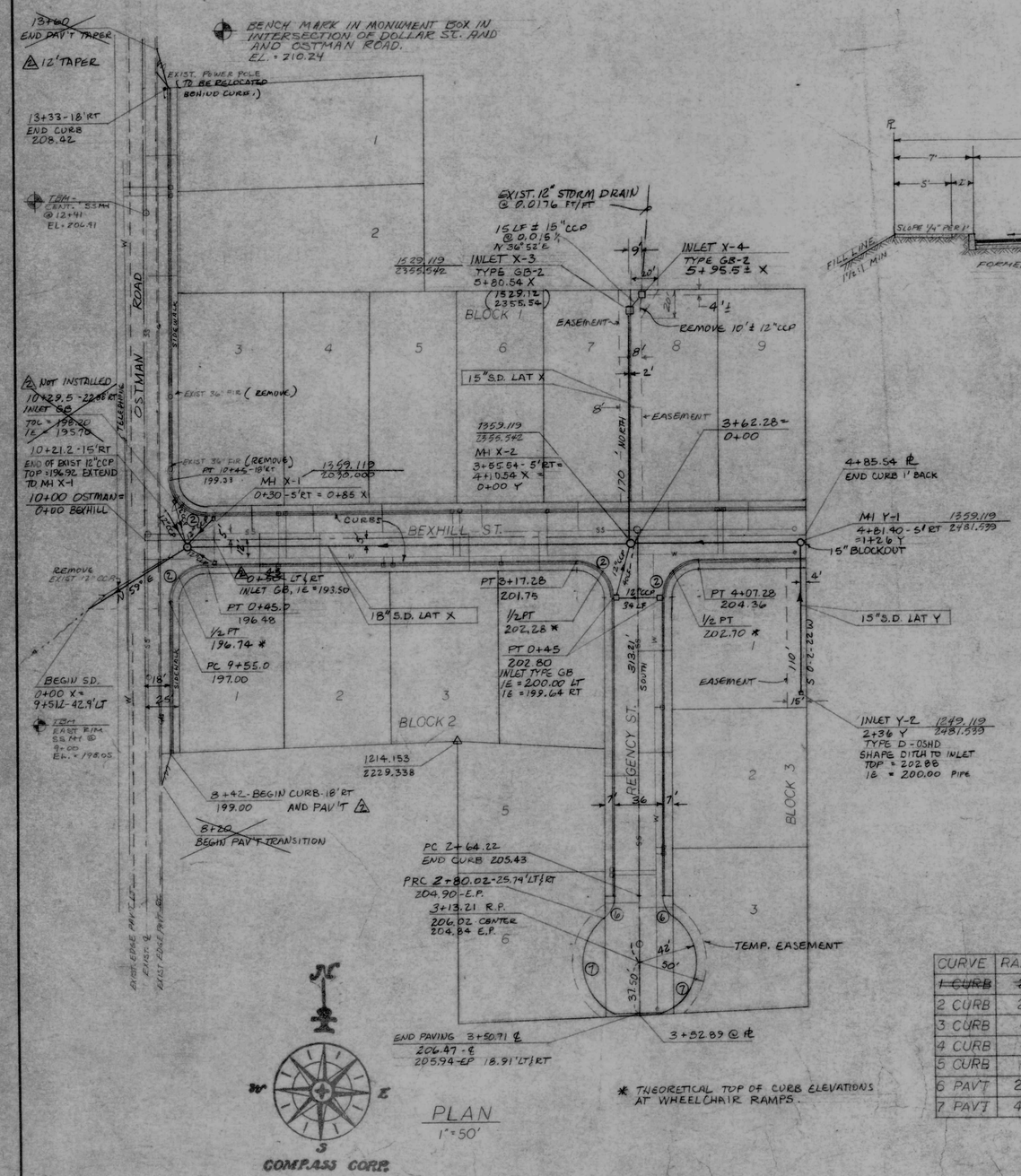
WATER IMPROVEMENTS
PLAN AND PROFILES

4 / 4

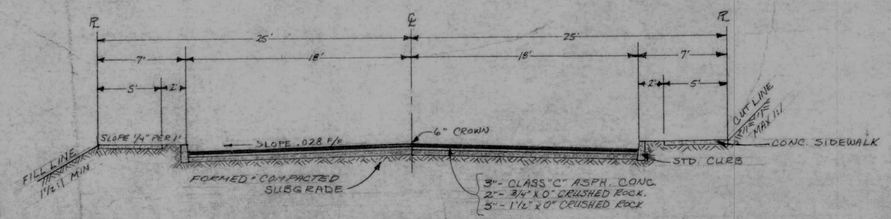
Willamette Print & Blueprint Company

Second Scan

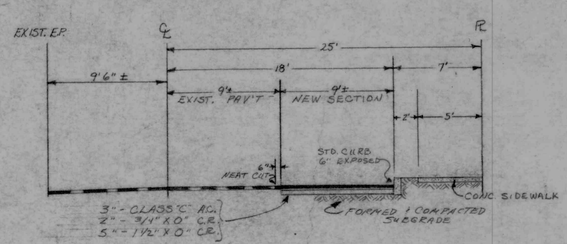
This As-Built was scanned twice due to illegibility issues of the original scan.



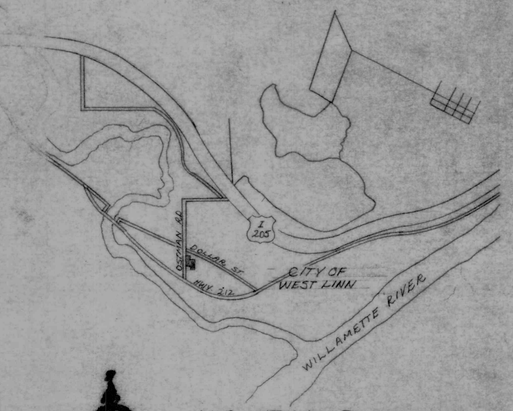
PLAN
1" = 50'



STREET SECTION
1" - 6'



OSTMAN ROAD SECTION
1" - 6'



VICINITY MAP
1" = 1/2 MILE

STREET AND STORM DRAINAGE NOTES:

. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE CITY OF WEST LINN PUBLIC WORKS DEPARTMENT O.S.H.D. AND A.P.W.A. OREGON CHAPTER SPECIFICATIONS.

. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL RELOCATE ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION.

. CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.

. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY THE CONTRACTOR. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST.

. STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH DIVISION TWO (2) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, A.P.W.A. OREGON CHAPTER.

. MATERIAL IN SOFT SPOTS WITHIN THE ROADWAY SHALL BE REMOVED TO THE DEPTH REQUIRED TO PROVIDE A FIRM FOUNDATION AND SHALL BE REPLACED WITH 2 1/4 INCHES MINUS CRUSHED ROCK. THE ENTIRE SUBGRADE SHALL BE THOROUGHLY COMPACTED AT THE LOWEST CONTENT AT WHICH A HANDFUL OF THE SOIL CAN BE MOLDED BY A FIRM CLOSING OF THE HAND.

. CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN SUBGRADING IS COMPLETED AND 24 HOURS PRIOR TO PLACEMENT OF ROCK BASE MATERIAL AND 24 HOURS PRIOR TO FINAL PAVING FOR INSPECTION OF THE WORK.

. ENGINEER RESERVES THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMMODATE UTILITIES OR EXISTING SEWER LINES AS REQUIRED.

. ASPHALT CONCRETE PAVEMENT TO BE CLASS "C". MIX TO BE DESIGNED FROM A JOB MIX FORMULA APPROVED BY THE O.S.H.D. FOR MATERIALS USED. CONTRACTOR TO PROVIDE ENGINEER WITH CERTIFICATE OF COMPLIANCE FROM ASPHALT PAVEMENT PLANT.

. ASPHALTIC CONCRETE IS TO BE PUT ON IN TWO (2) LIFTS AND COMPACTED TO 1 1/2 INCH PER LIFT.

. CONCRETE PIPE SHALL BE ASTM C 14 CLASS 2 NONREINFORCED CONCRETE PIPE.

. PIPE BEDDING AND TRENCH GRANULAR BACKFILL IN PAVED AREAS SHALL CONFORM WITH GRANULAR BEDDING AND BACKFILL REQUIREMENTS OF A.P.W.A. DIVISION III, SECTION 61-3.03 B2 AND 61-3.05, COMPACTION TO BE MECHANICAL OR VIBRATORY TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHD T-99 IN ACCORDANCE WITH A.P.W.A. DIVISION III, SECTION 61-3.06. WATER SETTLEMENT WILL BE ALLOWED WITH GRANULAR BACKFILL.

. TRENCH BACKFILL OUTSIDE OF PAVED AREAS MAY BE EXCAVATED TRENCH MATERIAL WITH COMPACTION TO 85% MAXIMUM DENSITY. BEDDING TO BE CLASS "B".

CURVE	RADIUS	DELTA	LENGTH
~~1 CURB~~	~~27~~	~~69°26'57"~~	~~32.73'~~
2 CURB	27	90°00'00"	42.41'
3 CURB	4	80°33'03"	5.62'
4 CURB	4	60°00'00"	4.19'
5 CURB	4	120°00'00"	8.38'
6 PAV'T	20	52°12'01"	18.22'
7 PAV'T	42	115°26'05"	84.62

REGISTERED PROFESSIONAL ENGINEER 7897 OREGON JULY 13, 1978 Gregor Colpo Kammerer

STURBRIDGE GLEN
WEST LINN, OREGON

STURBRIDGE GLEN 27

DATE	NO.	REVISION
12/15/77	2	AS-BUILT
8/13/77	1	CURB, TREE REMOVAL

DRAWN B.Mc
SCALE AS SHOWN DATE JULY '77
FILE 76-850-815

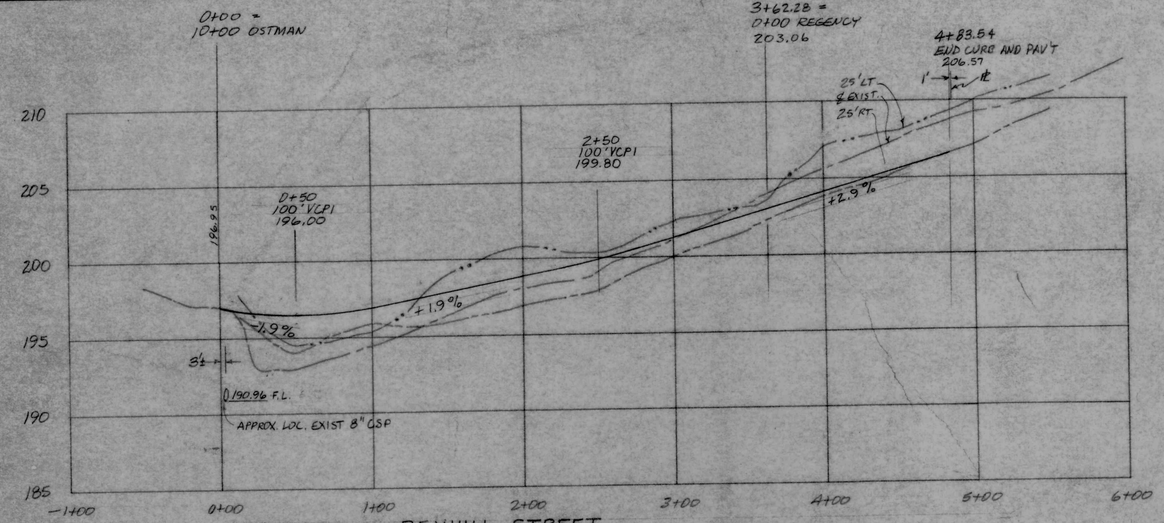
COMPASS CORPORATION
ENGINEERING - SURVEYING - PLANNING
6564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

BETTY HART, BEVERLY NEAL, & FRED HARTNELL
6915 S.E. LAKE ROAD TELEPHONE - 659-4530
MILWAUKIE, OREGON 97222

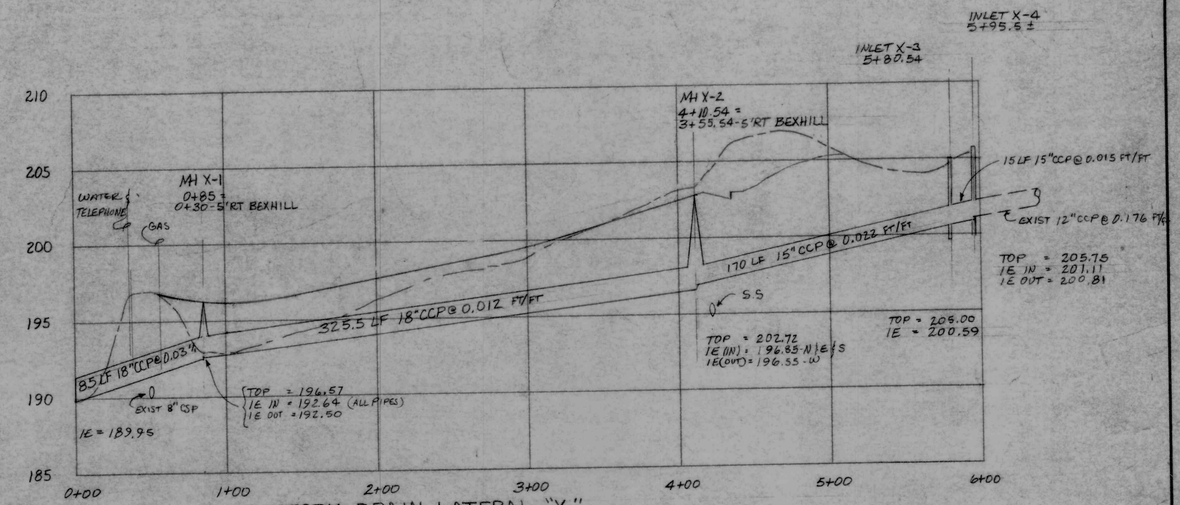
ROAD AND STORM DRAIN IMPROVEMENTS PLAN

1/4

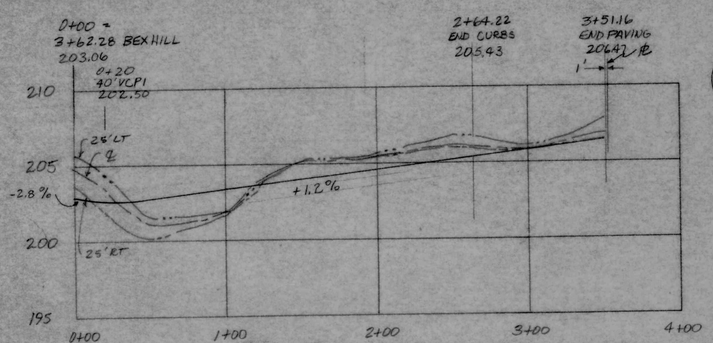
Willamette Print & Blueprint Company



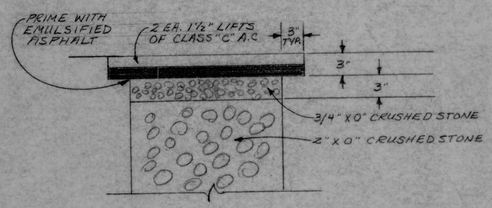
BEXHILL STREET
1"=50' HORIZ 1"=5' VERT



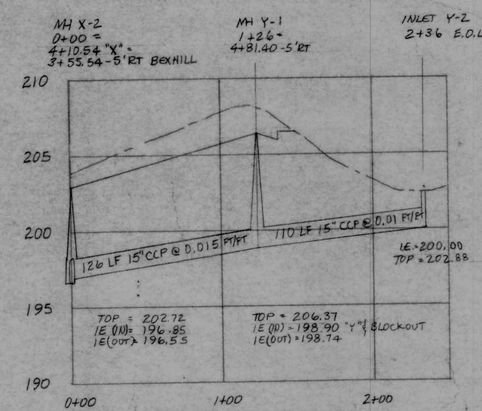
STORM DRAIN LATERAL "X"
1"=50' HORIZ 1"=5' VERT



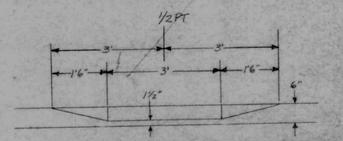
REGENCY STREET
1"=50' HORIZ 1"=5' VERT



A.C. PAVEMENT REPLACEMENT DETAIL
NTS

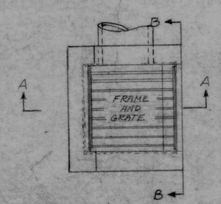


STORM DRAIN LATERAL "Y"
1"=50' HORIZ 1"=5' VERT



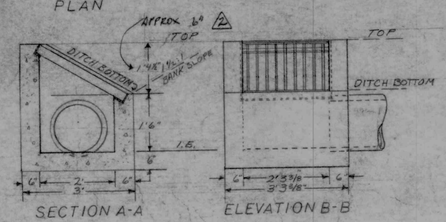
WHEEL CHAIR RAMP ELEVATION
1"=2'

WHEELCHAIR RAMP SECTION
1"=2'



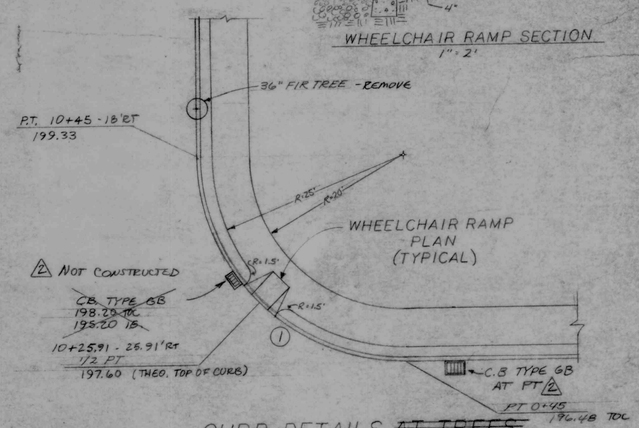
FOR FRAME AND GRATE DETAILS SEE O.S.H.D. DRAWING NO. 2105

PLAN

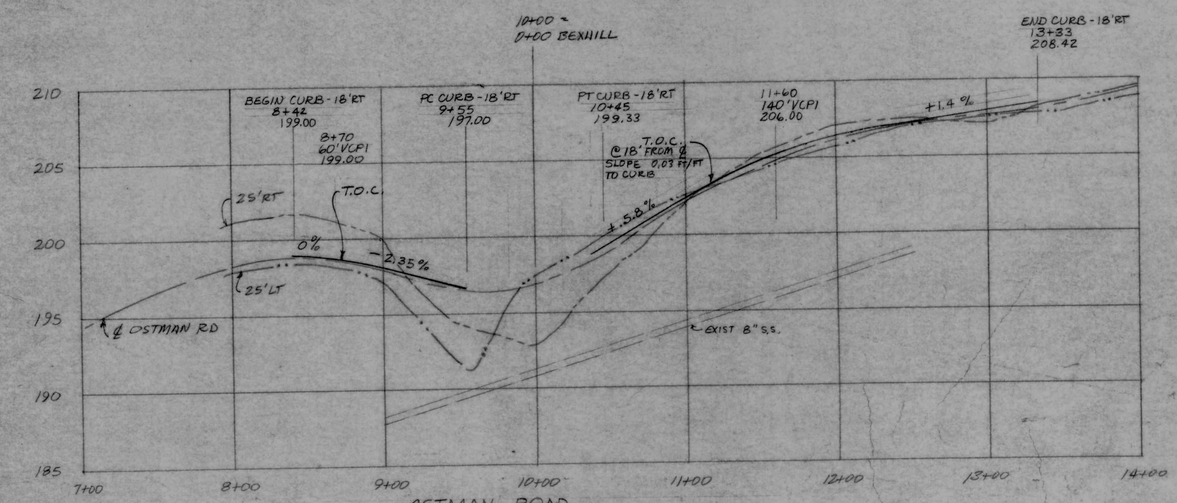


SECTION A-A ELEVATION B-B

STANDARD DITCH INLET DETAIL
½"=1'



CURB DETAILS ~~AT TREES~~ AND WHEELCHAIR RAMP
1"=10'



OSTMAN ROAD
1"=50' HORIZ 1"=5' VERT

STURBRIDGE GLEN
WEST LINN, OREGON

REGISTERED PROFESSIONAL ENGINEER — OREGON — Gary Dalton Kimmerson

DATE	NO.	REVISION
12/15/77	2	AS BUILT
8/15/77	1	CURB DETAIL, SD. X

DRAWN B. McC
SCALE AS SHOWN DATE JULY, '77
FILE 76 - 850 - 815

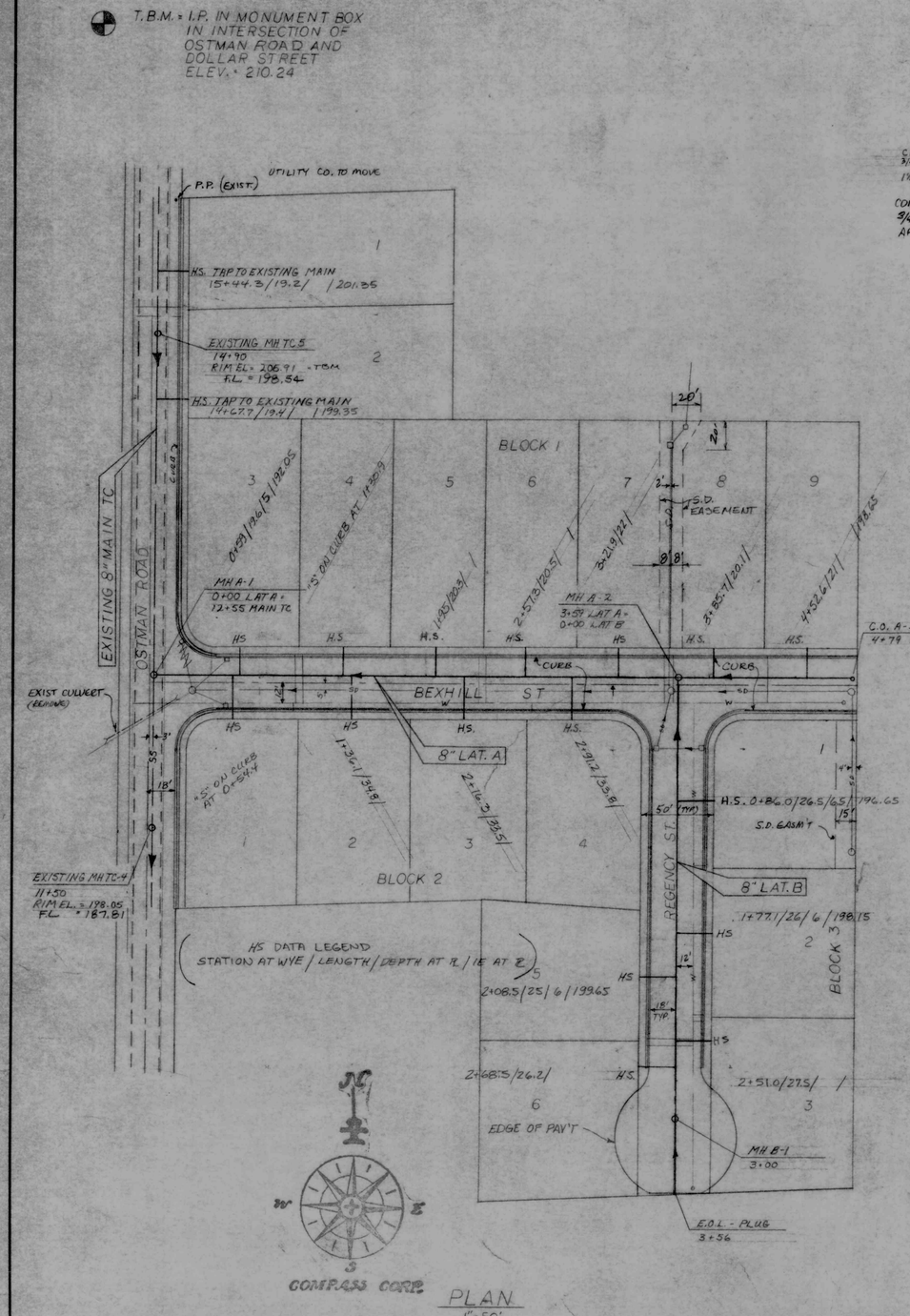
COMPASS CORPORATION
ENGINEERING - SURVEYING - PLANNING
6564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

BETTY HART, BEVERLY NEAL, & FRED HARTNELL
6915 S.E. LAKE ROAD
MILWAUKIE, OREGON 97222 TELEPHONE: 659-4530

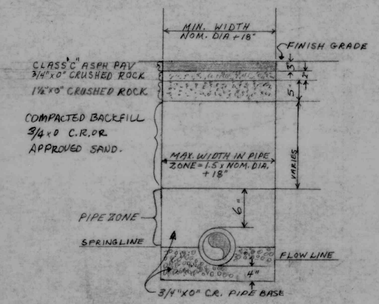
ROAD AND STORM DRAIN IMPROVEMENTS PROFILE

2/4

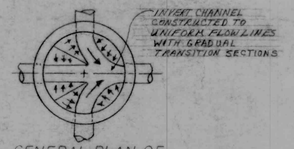
Willamette Print & Blueprint Company



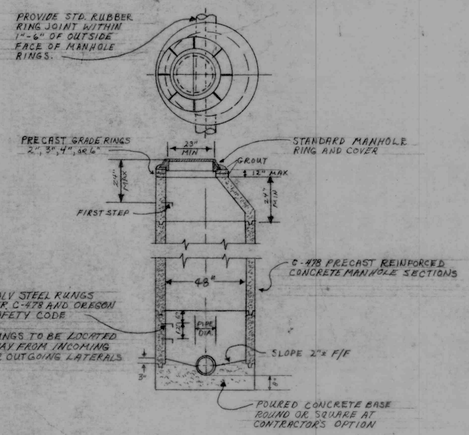
PLAN
1"=50'



CLASS "B"
EXCAVATION & BACKFILL
(PAVED AREAS)
NTS

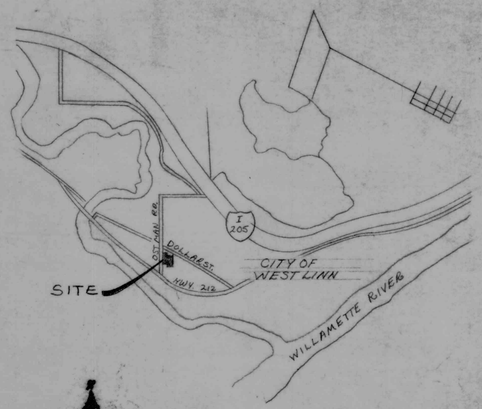


GENERAL PLAN OF
CHANNEL INTERSECTION

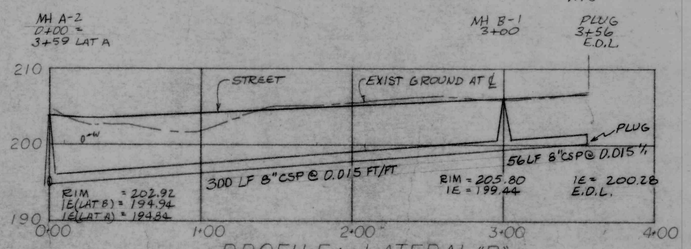


TYPICAL MANHOLE
6" TO 21" PIPE

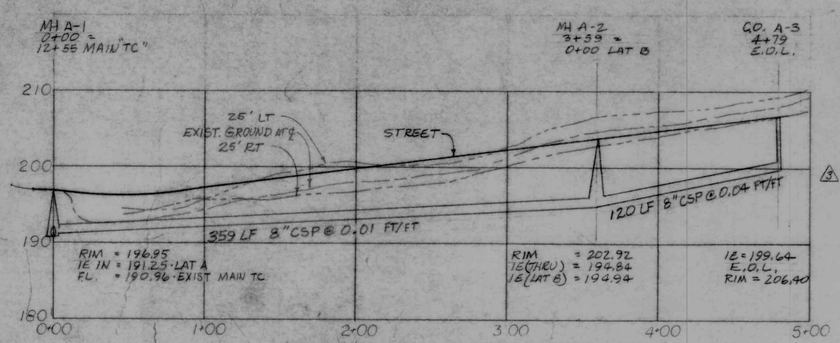
STANDARD MANHOLE DETAILS
NTS



VICINITY MAP
1"=1/2 MILE



PROFILE: LATERAL "B"
1"=50' HORIZ 1"=10' VERT.



PROFILE: LATERAL "A"
1"=50' HORZ 1"=10' VERT.

NOTES:

- CONSTRUCTION SHALL CONFORM WITH THE CITY OF WEST LINN AND A.P.W.A. SPECIFICATIONS FOR CONSTRUCTION OF SANITARY SEWERS.
- CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
- ALL CONCRETE SANITARY SEWER PIPE SHALL BE ASTM C 14, CLASS 2 NONREINFORCEED CONCRETE PIPE WITH RUBBER GASKETS.
- CONTRACTOR TO LOCATE ALL UTILITIES BEFORE STARTING CONSTRUCTION AND SHALL RELOCATE ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
- EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY CONTRACTOR. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST.
- ENGINEER RESERVES THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMMODATE UTILITIES OR EXISTING SEWER LINES AS REQUIRED.
- BUILDING SERVICE CONNECTIONS TO BE 6 INCH SEWER PIPE AND SHALL EXTEND TO PROPERTY LINE OF LOT BEING SERVED.
- SERVICE CONNECTION TAPS INTO EXISTING SEWER LINE SHALL BE 4 INCH C.I.P. SADDLES REQUIRED.
- SERVICE CONNECTION TO SLOPE 2% MINIMUM UP TO FUTURE HOUSE LOCATION FORM SEWER LATERAL OR MAIN. MAXIMUM FLOW LINE ELEVATION OF HOUSE SERVICE AT PROPERTY LINE SHOWN IN PARENTHESIS WHERE CRITICAL.
- CONTRACTOR SHALL PREPARE A PRINT FOR THE ENGINEER SHOWING AS CONSTRUCTED DATA: STATION OF TEE ALONG SEWER, LENGTH OF CONNECTION AND DEPTH OF SERVICE CONNECTION AT PROPERTY LINE OR END OF SERVICE AND ANY CHANGES MADE DURING CONSTRUCTION. 3 NOT DONE
- PIPE BEDDING AND TRENCH GRANULAR BACKFILL IN PAVED AREAS SHALL CONFORM WITH GRANULAR BEDDING AND BACKFILL REQUIREMENTS OF A.P.W.A DIV. III, SECTION 61-3.03 B2 AND 61-3.05. COMPACTION TO BE MECHANICAL OR VIBRATORY TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHO T-99 IN ACCORDANCE WITH A.P.W.A. DIV. III, SECTION 61-3.05. WATER SETTLEMENT WILL BE ALLOWED IN PAVED AREAS WITH GRANULAR BACKFILL.
- STATIONING AND DISTANCES SHOWN ON PLAN AND PROFILE ARE HORIZONTAL AND NOT SLOPE DISTANCE.
- ALL SERVICE BRANCHES TO BE WITH WYES AND 1/8 BENDS. NO TEES ALLOWED. 3 NOT DONE
- SERVICES TO BE MARKED WITH A 2x4 PAINTED WHITE WITH DEPTH WRITTEN ON END. MINIMUM OF 2 FEET EXPOSED.
- MANHOLE COVERS SHALL MEET ALL REQUIREMENTS OF A.S.T.M. A. 48. THE COVER SHALL BE SOLID WITH ONE 3/4-INCH HOLE IN ADDITION TO THE SLOT FOR A PICK OR LIFTING TOOL. FRAMES AND COVERS SHALL BE COATED WITH A BLOCK BITUMINOUS MATERIALS ALL COVERS SHALL CARRY THE LETTER "S" OR THE WORD "SEWER" EITHER RAISED OR RECESSED A MINIMUM OF 1/8-INCH.

REGISTERED PROFESSIONAL ENGINEER 1697 OREGON July 13, 1978 Gerald Eaton Kimmerling

STURBRIDGE GLEN
WEST LINN, OREGON

DATE	NO.	REVISION
12-7-77	3	AS-BUILT DATA
9/22/77	2	APPROVAL STICKERS
8/15/77	1	TRENCH SECTION, MH DIA, NOTES

DRAWN B. MC
SCALE AS SHOWN DATE JULY, '77
FILE 76 - 850 - 815

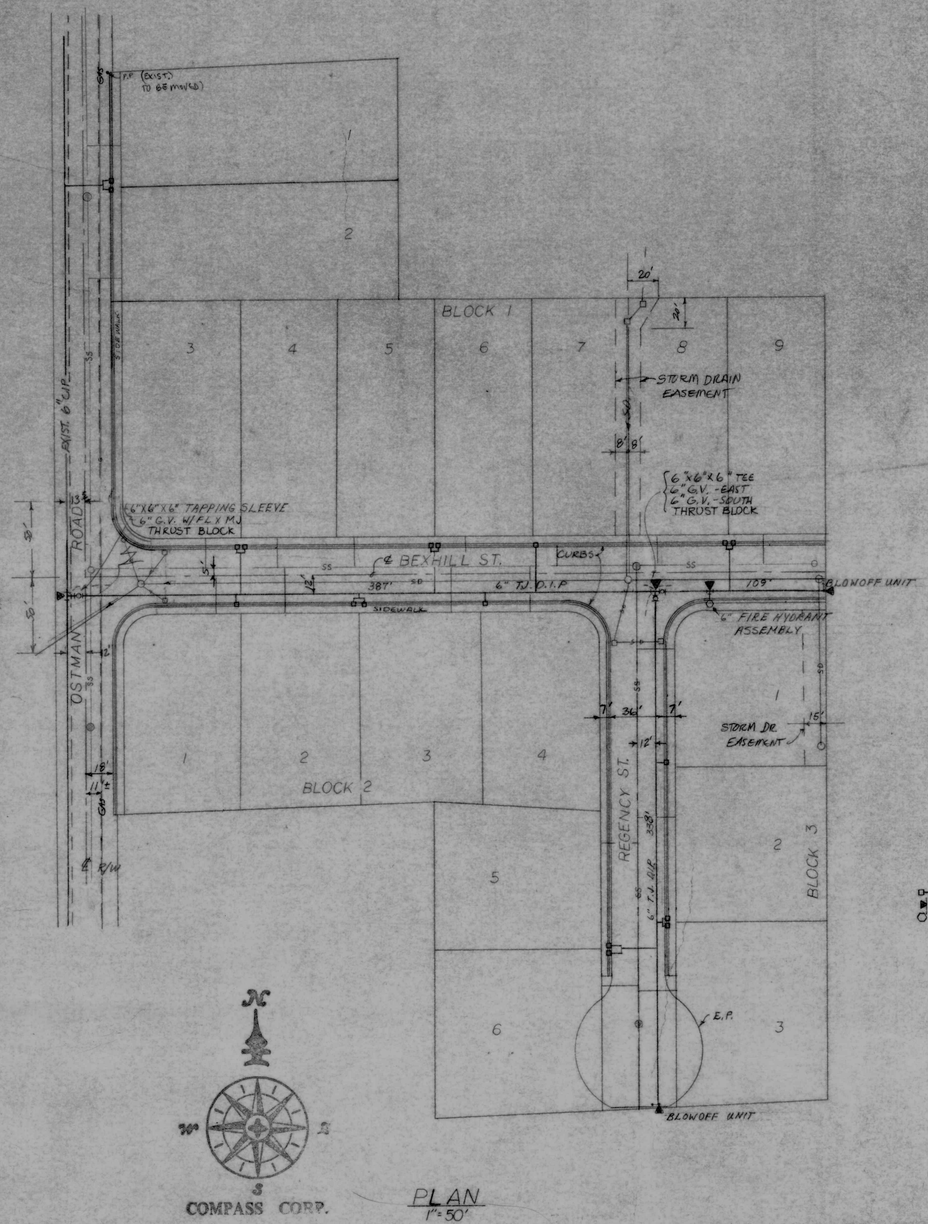
COMPASS CORPORATION
ENGINEERING - SURVEYING - PLANNING
6564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

BETTY HART, BEVERLY NEAL, & FRED HARTNELL
6915 S.E. LAKE ROAD
MILWAUKIE, OREGON

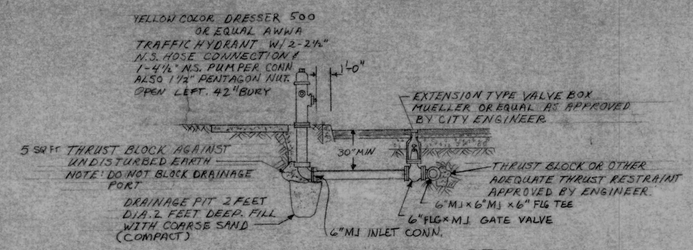
SANITARY SEWER IMPROVEMENTS
PLAN AND PROFILES

3/4

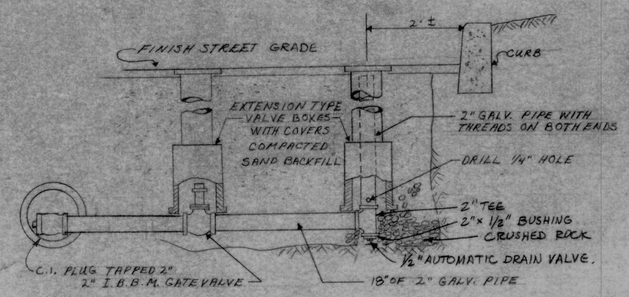
Willamette Print & Blueprint Company



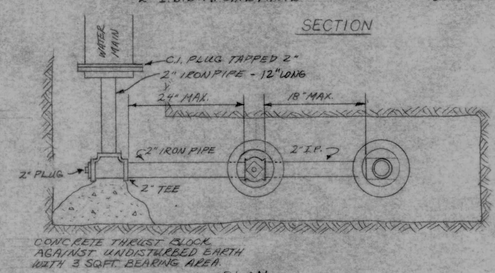
PLAN
1" = 50'



TYPICAL FIRE HYDRANT DETAIL
N.T.S.



SECTION



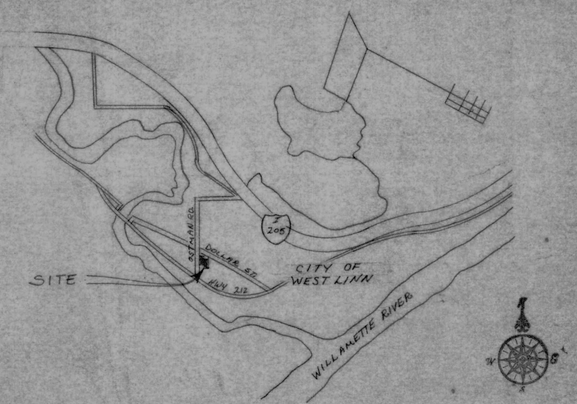
PLAN

STANDARD BLOWOFF UNIT
NTS

LEGEND

- WATER SERVICES
- THRUST BLOCK
- FIRE HYDRANT

3 NOTE: CONTRACTOR USED P.V.C. WATER PIPE INSTEAD OF DUCTILE IRON WITH APPROVAL OF CITY. DETAILS AND NOTES APPLYING TO DUCTILE IRON ARE THEREFORE NOT APPLICABLE.



VICINITY MAP
1" = 1/2 MILE

NOTES:

- CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL CONSTRUCT THE WATERMAIN TO AVOID CONFLICT WITH EXISTING UTILITES.
- CONTRACTOR TO OBTAIN ALL PERMITS.
- ALL WORK AND MATERIALS TO CONFORM WITH CITY OF WEST LINN, THE LATEST EDITION OF OREGON STATE HEALTH DIVISION ADMINISTRATIVE RULES, CHAPTER 333, AND A.P.W.A. STANDARDS.
- ALL PIPE TO BE MINIMUM COVER OF 30 INCHES BELOW FUTURE STREET GRADES.
- ALL MAINS TO BE CLEANED AND FLUSHED WITH POTABLE WATER PRIOR TO DISINFECTION AND TESTING.
- PIPELINE TO BE TESTED AT 150 PSI AND HELD AT THAT PRESSURE FOR 2 HOURS. THE ALLOWABLE LEAKAGE PER 1000 FEET OF PIPELINE SHALL BE: 6-INCH - 1 GALLON, 4-INCH - .67 GALLON.
- PIPELINE TO BE THOROUGHLY DISINFECTED AND FLUSHED IN ACCORDANCE WITH A.W.W.A. STANDARD C 601.
- PIPELINE TO BE TYTON JOINT DUCTILE IRON PIPE CLASS 52 AND SHALL CONFORM TO ASTM C110, C111, C150, AND C151. (CEMENT MORTAR LINED)
- CONCRETE THRUST BLOCKS WITH A MINIMUM OF 3 SQUARE FEET OF BEARING SURFACE AGAINST UNDISTURBED SOIL TO BE CONSTRUCTED AT ALL TEES, BENDS AND BLOWOFFS.
- THRUST RESTRAINT SHALL BE PROVIDED AT FIRE HYDRANTS BY RESTRAINED JOINTS, THRUST BLOCKS OR TIE RODS.
- CORPORATION STOPS SHALL HAVE A.W.W.A. THREAD INLETS AND COPPER FLARE FITTING OUTLETS.
- CURB STOPS SHALL HAVE COPPER INLETS AND M.I.P. OUTLETS.
- HOUSE SERVICE TO BE COPPER TYPE "K" SEAMLESS SOFT ANNEALED. SINGLE SERVICES TO BE 3/4 INCH. DOUBLE SERVICES TO BE 1 INCH.
- METER BOXES TO BE NO. 1 METER BOX AS MANUFACTURED BY METER BOX EQUIPMENT COMPANY, TIGARD, OREGON.
- COPPER TUBE BENDS TO BE SMOOTH RADIUS.
- SERVICE TAPS TO BE AT LEAST 18-INCHES APART.
- CONTRACTOR TO INSTALL PIPELINE AND HOUSE SERVICES TO AND INCLUDING CURB STOPS AND METER BOXES.

REGISTERED PROFESSIONAL ENGINEER 7092 OREGON JULY 19, 1979 Gerald Carlton Kammerzell

STURBRIDGE GLEN
WEST LINN, OREGON

DATE	NO.	REVISION
12/15/77	3	AS BUILT
8/22/77	2	APPROVAL STICKERS
8/15/77	1	SINGLE SERVICES TO DOUBLE, CL 52 DIP

DRAWN B. MC
SCALE AS SHOWN DATE JULY, '77
FILE 76 - 850 - 815

COMPASS CORPORATION
ENGINEERING - SURVEYING - PLANNING
6564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222

BETTY HART, BEVERLY NEAL, & FRED HARTNELL
6915 S.E. LAKE ROAD
MILWAUKIE, OREGON 97222 TELEPHONE: 659-4530

WATER IMPROVEMENTS
PLAN AND PROFILES

4/4

Willamette Print & Blueprint Company