

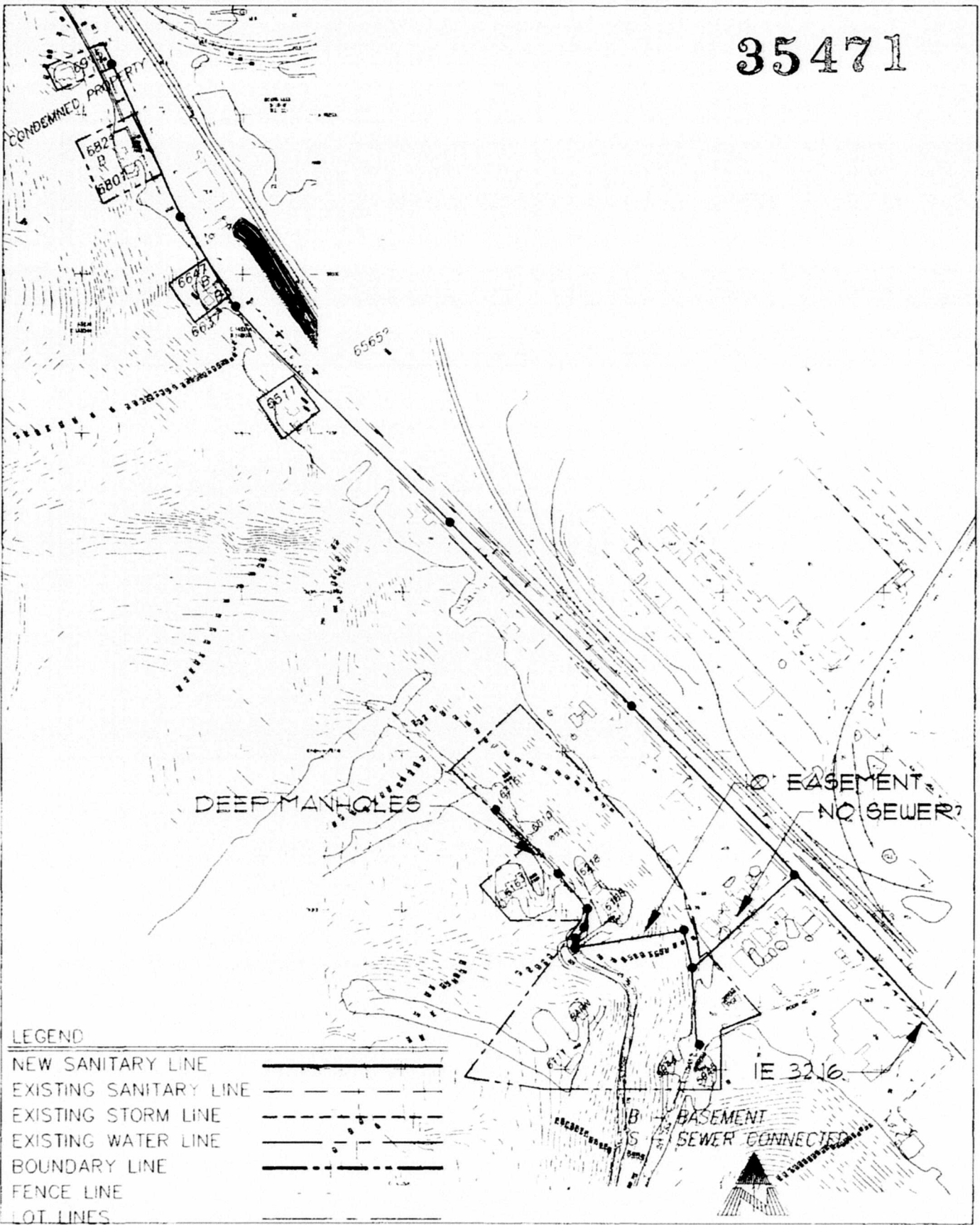
NEIGHBORHOOD  
 QUARTER SECTION  
 LOCATION:

LINNTON  
 2421-2422  
 NW ST HELENS RD










CONTRIBUTES TO CSO?

NO

35471



LEGEND

- NEW SANITARY LINE 
- EXISTING SANITARY LINE 
- EXISTING STORM LINE 
- EXISTING WATER LINE 
- BOUNDARY LINE 
- FENCE LINE 
- LOT LINES 
- EXISTING MANHOLE 
- NEW MANHOLE 

SCALE 1"=400'  
AREA 102 AND 103

**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

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AREA NO 102 & 103

NEIGHBORHOOD Linnton

LOCATION NW St Helens Road

QUARTER SECTION 2321, 2421 &  
2422

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**Project Description:**

This project is located along US Highway 30 and has been combined with project area 103. Service to area 102 will depend on prior or concurrent service being provided to project area 103. For purposes of this report, these two areas are being combined into a single project.

Serving both areas 102 and 103 will provide service to 15 existing homes along the southwest side of the highway. These homes currently are served by septic systems. Area 103 is located very close to a public sewer on St Helens Road. Area 103 can be served through gravity service to the existing sewer system, however area 102, located about 3000 feet farther northwest will require a pump station to transport sewage to the public system.

A relatively short public sewer could be constructed to serve only those homes immediately along St Helens Road, however, it is recommended that a more comprehensive sewerage study be conducted for both areas 102 and 103 to determine the outer extent of the service area. In addition, a detailed field survey of the area will assist in determining the limits of gravity service serving this area.

Septic system records for the homes in this area indicate the earliest septic systems were installed in the 1920's and 1930's. Three of the five homes show records of septic system replacement since the original installation with the most recent occurring in 1994.

The following figures and tables present detailed information about this project.

**Priority Ranking:**

Review of the existing septic system conditions and the age of the existing systems place this project as the 23rd priority project. These projects (102 and 103) may be considered as separate projects at the time of evaluation for final design. At that time, a new priority should be developed for the portion of the project under consideration.

35471

**Project Cost:**

Construction of a system to serve areas 102 and 103 will cost about \$ 975,000 This includes provision of service lines to the edge of the property all 15 homes A modification to the service area which extends service to additional homes could increase the project cost

On average this project will cost \$ 64,883 per residence This compares to a city-wide average of \$ 9769 per residence for all similar projects

**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

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AREA NO 103

NEIGHBORHOOD Linnton

LOCATION US Highway 30  
(Columbia River Highway)

QUARTER SECTION

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**Project Description:**

This project has been combined with project area 102 See write-up for a project description of both areas

Project area 103 will provide sanitary sewer service to an area north of NW Saltzman Road and southwest of Highway 30 A public sewer exists in the Highway 30 right-of-way with its terminus about 250 feet south of NW Saltzman Road Most of area 103 can be served into this line through gravity service, however detailed field survey information is needed along Highway 30 to determine the gravity service potential to homes and lots immediately adjacent to Highway 30

Currently, 10 homes are located uphill from Highway 30 along NW Saltzman Road All are presumed to use septic systems for wastewater disposal even though records only exist for 5 of the homes in the area Records indicate that septic systems for these homes were constructed in the early 1940's and in 3 of the 5 locations where records exist, additional permits for septic system work have been issued since the original construction

Similar to the recommendations for area No 102, a more detailed review of the potential service area tributary to this area should be done and an ultimate sewage flow determined

For purposes of this study, a gravity sewer extending 1500 feet along Highway 30 will provide service to the properties along the highway A separate lateral line extending south along SN Saltzman Road will be needed to provide service to the homes uphill of the highway Alternate routes to using the NW Saltzman Road right-of-way should be studied to find the most economical route for service For purposes of this study, a NW Saltzman Road route was selected Use of this route may preclude provision of complete service to homes east of NW Saltzman that are downhill from the right-of-way

The following figures and tables present detailed information about this project

35471

**Priority Ranking:**

This project area has been combined with area 102 for purposes of setting a priority Please refer to the priority listing for area 102

**Project Cost:**

Project costs for this area have been combined with the costs for area 102

**CRANE MERSETH  
ENGINEERING/SURVEYING  
UN SEWERED AREAS**

AREA	PARCEL	OWNER FIRST NAME	LAST NAME	SITE	ADDRESS	CITY	ZIP
103	R96113 0270	Charles F	Rehwalt	5945	NW Saltzman Rd	Portland	97210
103	R96113 0260	John David	Kinzie	6111	NW Saltzman Rd	Portland	97210
103	R96113 0280	Adolf G & Carolyn A	Lange	6163	NW Saltzman Rd	Portland	97210
103	R91550 0820	Raymond F & Phyllis I	Stahly	6168	NW Saltzman Rd	Portland	97210
103	R91550 0880	William C & Linda S	Donald	6218	NW Saltzman Rd	Portland	97210
103				5944	NW Saltzman Rd	Portland	97210
103				6310	NW Saltzman Rd	Portland	97210
103	R91550 1950	Charles W & Martha W	Goldsmith	6316	NW Saltzman Rd	Portland	97210
102				6915	NW St Helens Rd	Portland	97210
102				6821	NW St Helens Rd	Portland	97210
102				6801	NW St Helens Rd	Portland	97210
102				6647	NW St Helens Rd	Portland	97210

ITEMS OF WORK & MAT'LS	QUANTITY	UNIT PRICE	TOTAL AMOUNT
8" ASTM C-14, CL 3 CSP	11200 LF	\$ 25 00 LF	\$ 280,000 00
6" ASTM C-14, CL 3 CSP	300 LF	\$ 22 00 LF	\$ 6,600 00
6"X8" TEE, ASTM C-14, CL 3	15 EA	\$ 100 00 EA	\$ 1,500 00
48" STD PRECAST MH	15 EA	\$ 1,800 00 EA	\$ 27,000 00
48" STD PRECAST MH, OVER 8'	12 LF	\$ 200 00 LF	\$ 2,400 00
8" CONNECTION TO EXISTING MH	1 EA	\$ 600 00 EA	\$ 600 00
8" CONNECTION TO EXISTING PIPE	0 EA	\$ 400 00 EA	\$ -
COMMON TRENCH EXC & NATIVE BACKFILL	10150 CY	\$ 15 00 CY	\$ 152,250 00
CSP PIPE BEDDING CLASS "C"	3045 CY	\$ 25 00 CY	\$ 76,125 00
IMP GRANULAR BACKFILL	7105 CY	\$ 10 00 CY	\$ 71,050 00
AC PAVEMENT REPLACEMENT 2" THICK	3721 SY	\$ 20 00 SY	\$ 74,416 67
ROCK SURFACING	0 CY	\$ 20 00 CY	\$ -
CONCRETE CURB REPLACEMENT	0 LF	\$ 20 00 LF	\$ -
SIDEWALK REPLACEMENT	0 SF	\$ 50 00 SF	\$ -
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	6 EA	\$ 500 00 EA	\$ 3,240 74
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 695,182 41</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 973,255.37</b>
EXISTING HOMES SERVED	15 EA		
VACANT LOTS SERVED	0 EA		
TOTAL SERVICES	15 EA		
TOTAL COST PER SERVICE			<b>\$ 64,883.69</b>



PRIORITY RATING

Sewer Extension Master Plan

Priority Criteria and Scoring

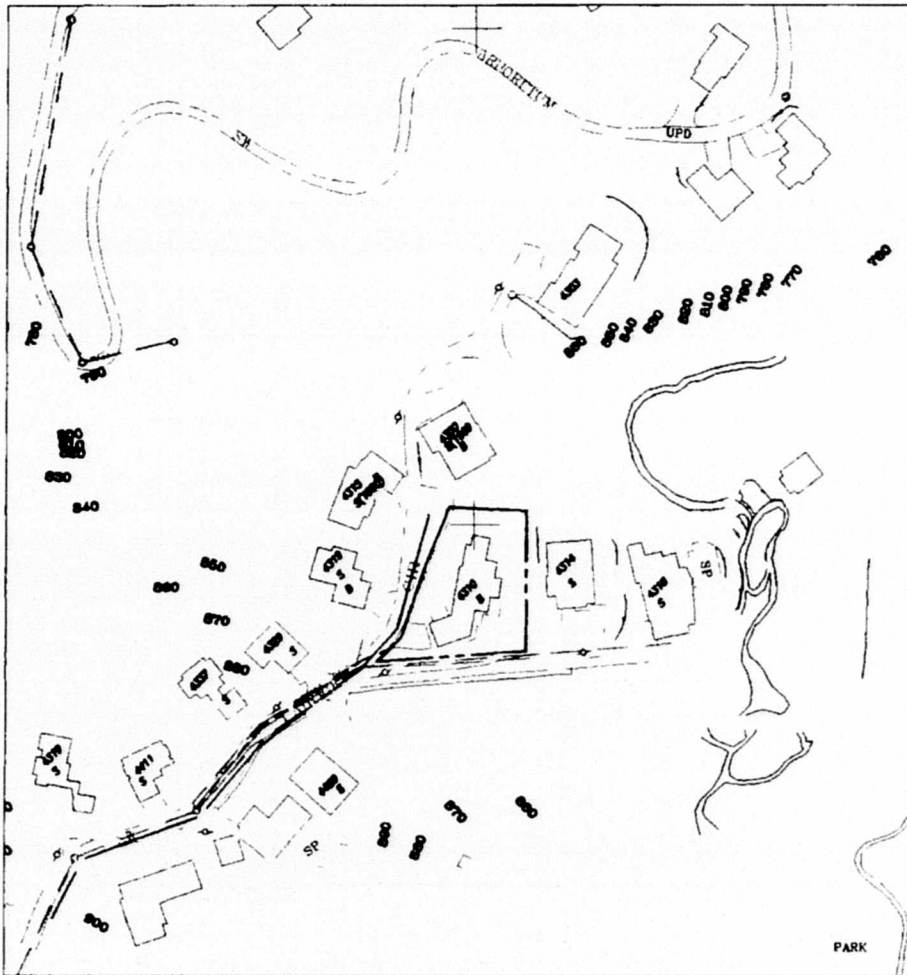
Project Area Number

1028103

CRITERIA	GUIDELINES	SCORE
<b>I Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many, well documented 5 No Record	5
2 How many septic systems have been replaced? None 25 Percent 50 Percent > 50 percent No records exist	0 points 4 points 7 points 9 points 5 points	9
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	yes - No <input checked="" type="checkbox"/>	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 1 point	1
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 0 points	0
4 Will the project impact any environmental zones during construction?	yes - 3 points no - 8 points	8
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	8 points 5 points 2 points	2

\* Annual CIP review should include survey of other bureaus for area projects

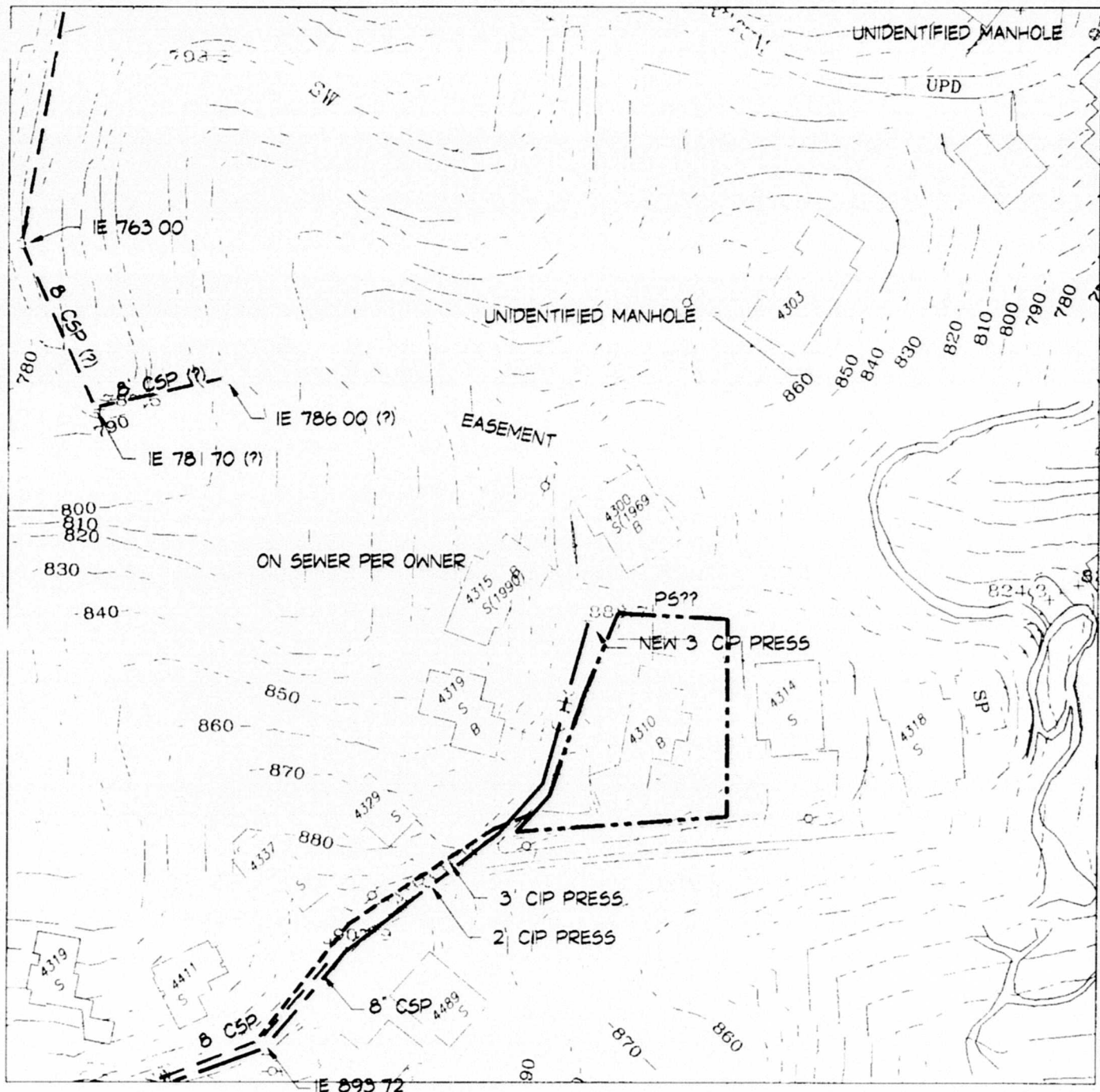
35471



NEIGHBORHOOD  
QUARTER SECTION  
LOCATION:  
CONTRIBUTES TO CSO?

SYLVAN HEIGHTS  
3125  
SW FAIRVIEW CIRCUS  
EAST OF FAIRVIEW BLDV.  
NO

AREA NO.104



**LEGEND**

NEW SANITARY LINE	—————
EXISTING SANITARY LINE	- - - - -
EXISTING STORM LINE	- - - - -
EXISTING WATER LINE	—————
BOUNDARY LINE	—————
FENCE LINE	—————
LOT LINES	—————
EXISTING MANHOLE	○
NEW MANHOLE	⊙

B - BASEMENT  
S - SEWER CONNECTED



SCALE 1"=100'

AREA 104

35471

**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

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AREA NO 104

NEIGHBORHOOD Sylvan Heights

LOCATION SW Fairview Circle

QUARTER SECTION 3125

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**Project Description:**

This project will provide sanitary sewer service to 1 home located on SW Fairview Circle. As an individual property, options for service include extension of a public sewer from one of the manholes located to the northwest or northeast or providing the property owner with a self-contained sewage pumping system. This decision may require discussions with the property owner and a determination by city staff as to whether it is prudent to site a pumping system for an individual home.

Until these determinations can be made, a decision on the type of service and analysis of the costs and priority for completing this project remains to be made.

**Priority Rating:**

Because of the unusual nature of this project, it has been assigned a priority of 68.

**CRANE MERSETH  
ENGINEERING/SURVEYING  
UN SEWERED AREAS**

<b>AREA</b>	<b>PARCEL</b>	<b>OWNER FIRST NAME</b>	<b>LAST NAME</b>	<b>SITE</b>	<b>ADDRESS</b>	<b>CITY</b>	<b>ZIP</b>
104	R99105 0570	William B & Karen L	Early	4310	SW Fairview Blvd	Portland	97221

AREA 104

35471

ITEMS OF WORK & MAT'LS	QUANTITY	UNIT PRICE	TOTAL AMOUNT
2" FORCE MAIN	240 LF	\$ 6 00 LF	\$ 1,440 00
6" ASTM C-14, CL 3 CSP	0 LF	\$ 22 00 LF	\$ -
6"X8" TEE, ASTM C-14, CL 3	1 EA	\$ 100 00 EA	\$ 100 00
48" STD PRECAST MH	0 EA	\$ 1,800 00 EA	\$ -
48" STD PRECAST MH, OVER 8'	0 LF	\$ 200 00 LF	\$ -
8" CONNECTION TO EXISTING MH	0 EA	\$ 600 00 EA	\$ -
8" CONNECTION TO EXISTING PIPE	0 EA	\$ 400 00 EA	\$ -
COMMON TRENCH EXC & NATIVE BACKFILL	50 CY	\$ 15 00 CY	\$ 750 00
CSP PIPE BEDDING CLASS "C"	8 CY	\$ 25 00 CY	\$ 200 00
IMP GRANULAR BACKFILL	60 CY	\$ 10 00 CY	\$ 600 00
AC PAVEMENT REPLACEMENT 2" THICK	240 SY	\$ 20 00 SY	\$ 4,800 00
ROCK SURFACING	0 CY	\$ 20 00 CY	\$ -
CONCRETE CURB REPLACEMENT	3 LF	\$ 20 00 LF	\$ 60 00
SIDEWALK REPLACEMENT	0 SF	\$ 50 00 SF	\$ -
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	0 EA	\$ 500 00 EA	\$ -
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 7,950.00</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 11,130.00</b>
EXISTING HOMES SERVED	1 EA		
VACANT LOTS SERVED	0 EA		
TOTAL SERVICES	1 EA		
TOTAL COST PER SERVICE			<b>\$ 11,130 00</b>

COST ESTIMATES

PRIORITY RATING

Sewer Extension Master Plan

Priority Criteria and Scoring

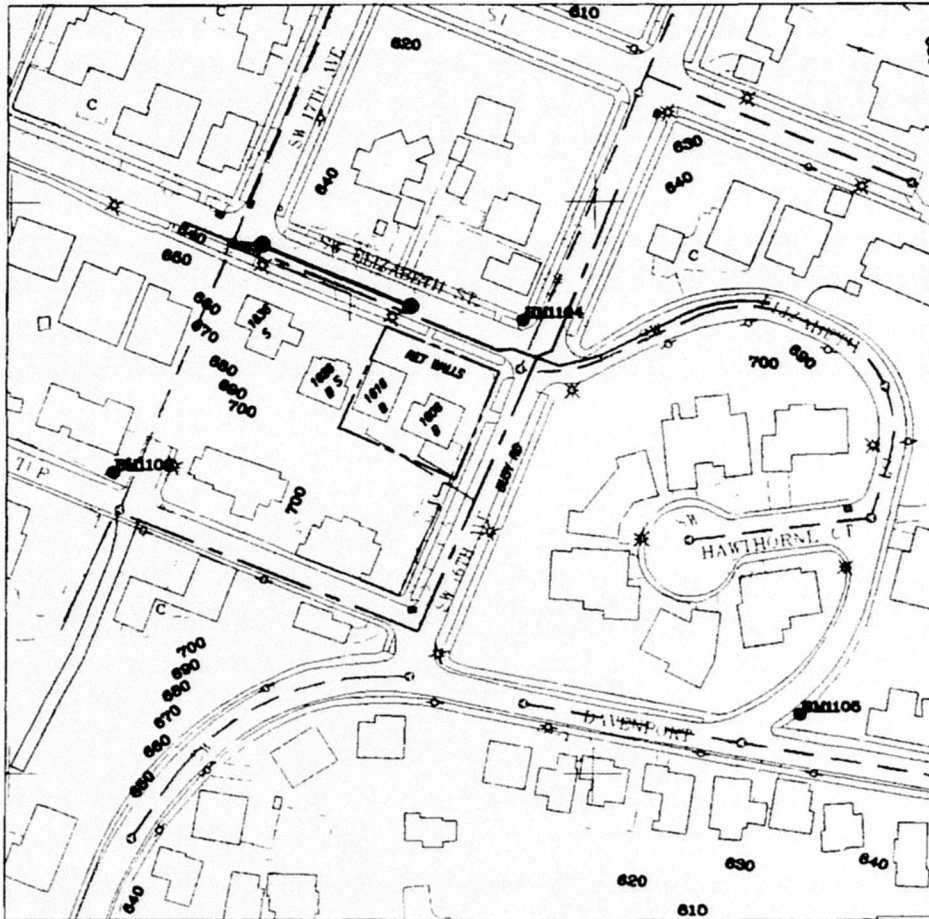
Project Area Number

104

CRITERIA	GUIDELINES	SCORE
<b>I Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many, well documented 5 = No Record	0
2 How many septic systems have been replaced? None 25 Percent 50 Percent > 50 percent No records exist	0 points 4 points 7 points 9 points 5 points	0
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	Yes No <input checked="" type="checkbox"/>	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 1 point	-
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 0 points	0
4 Will the project impact any environmental zones during construction?	yes 3 points no 8 points	8
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	3 points 5 points 2 points	8

\* Annual CIP review should include survey of other bureaus for area projects

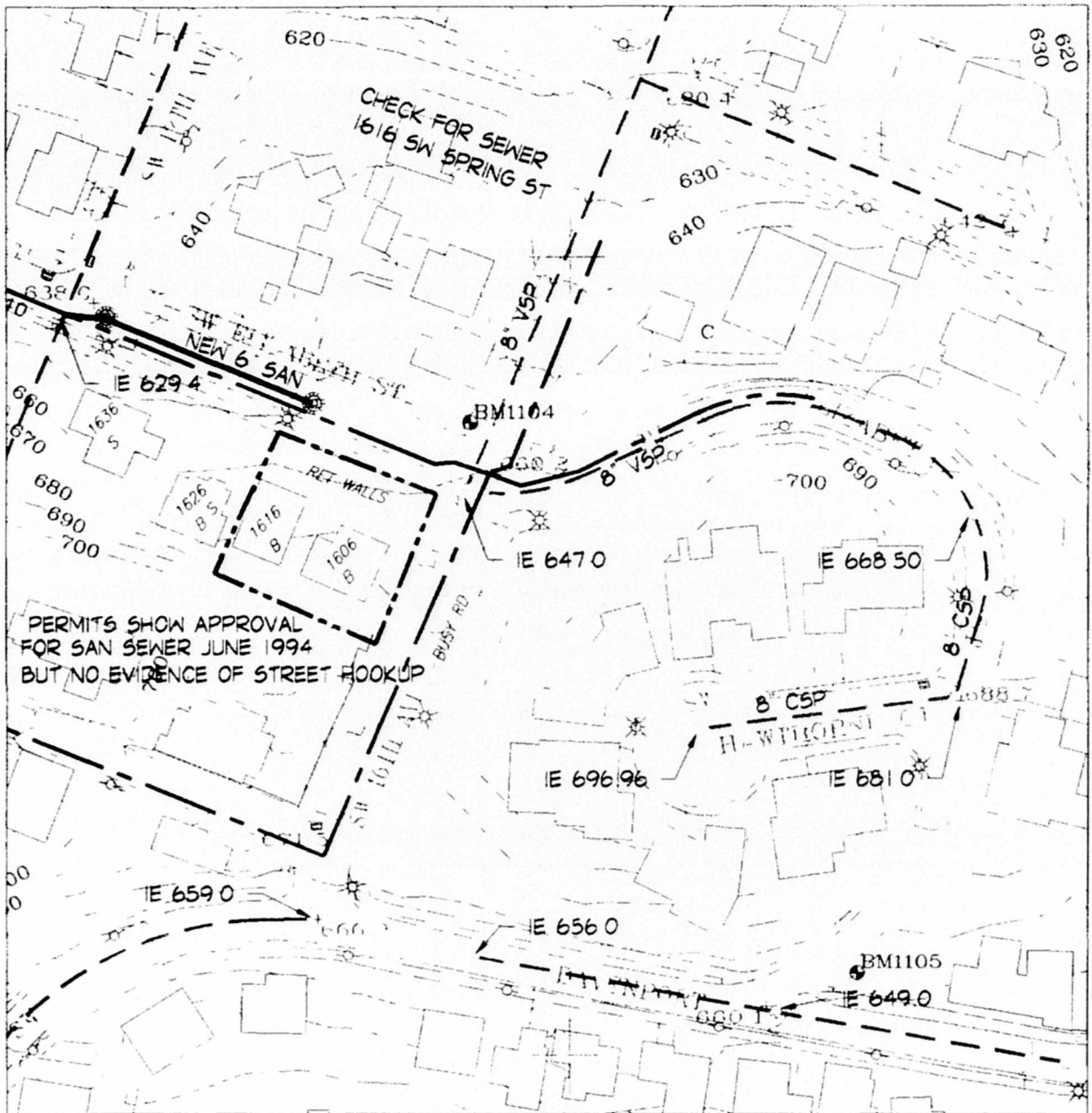
35471



NEIGHBORHOOD	SOUTHWEST HILLS
QUARTER SECTION	3227
LOCATION	SW ELIZABETH ST BETWEEN 16TH AVE. & 17TH AVE
CONTRIBUTES TO CSO?	NO

AREA NO. 105





LEGEND

- NEW SANITARY LINE
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING WATER LINE
- BOUNDARY LINE
- FENCE LINE
- LOT LINES
- EXISTING MANHOLE ☼
- NEW MANHOLE ●

B - BASEMENT  
S - SEWER CONNECTED



SCALE 1"=100'

AREA 105

**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

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AREA NO 105

NEIGHBORHOOD Southwest Hills

LOCATION SW Elizabeth St  
between SW 16th and  
SW 17th Avenues

QUARTER SECTION 3227

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**Project Description:**

This project will provide sanitary sewer service to 2 homes located on SW Elizabeth Street. An existing sanitary sewer located at the intersection of SW 17th Avenue and Elizabeth will provide a suitable connection for this extension. The new line will extend 180 feet to provide service to these 2 homes. No public record of septic system installation exists for these homes.

The following figures and tables present detailed information about this project.

**Priority Ranking:**

Review of the existing septic system conditions and the age of the existing systems place this project as the number 29 priority project. The residences in this project area have been in the area for a number of years, having been constructed at least 60 years ago. No field evidence of septic system failure is apparent.

**Project Cost:**

Construction of this project will cost about \$ 24,200. This includes provision of service lines to the edge of the property of each home. In all, 2 homes will receive sewage service connections to the public system.

On average this project will cost \$ 12,061 per residence. This compares to a city-wide average of \$ 9769 per residence for all similar projects.



ITEMS OF WORK & MAT'LS	QUANTITY	UNIT PRICE	TOTAL AMOUNT
8" ASTM C-14, CL 3 CSP	160 LF	\$ 25 00 LF	\$ 4,000 00
6" ASTM C-14, CL 3 CSP	56 LF	\$ 22 00 LF	\$ 1,232 00
6"X8" TEE, ASTM C-14, CL 3	2 EA	\$ 100 00 EA	\$ 200 00
48" STD PRECAST MH	2 EA	\$ 1,800 00 EA	\$ 3,600 00
48" STD PRECAST MH, OVER 8'	0 LF	\$ 200 00 LF	\$ -
8" CONNECTION TO EXISTING MH	1 EA	\$ 600 00 EA	\$ 600 00
8" CONNECTION TO EXISTING PIPE	0 EA	\$ 400 00 EA	\$ -
COMMON TRENCH EXC & NATIVE BACKFILL	179 CY	\$ 15 00 CY	\$ 2,677 78
CSP PIPE BEDDING CLASS "C"	54 CY	\$ 25 00 CY	\$ 1,338 89
IMP GRANULAR BACKFILL	125 CY	\$ 10 00 CY	\$ 1,249 63
AC PAVEMENT REPLACEMENT 2" THICK	66 SY	\$ 20 00 SY	\$ 1,311 11
ROCK SURFACING	0 CY	\$ 20 00 CY	\$ -
CONCRETE CURB REPLACEMENT	6 LF	\$ 20 00 LF	\$ 120 00
SIDEWALK REPLACEMENT	18 SF	\$ 50 00 SF	\$ 900 00
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	0 EA	\$ 500 00 EA	\$ -
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 17,229.41</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 24,121.17</b>
EXISTING HOMES SERVED	2 EA		
VACANT LOTS SERVED	0 EA		
TOTAL SERVICES	2 EA		
<b>TOTAL COST PER SERVICE</b>			<b>\$ 12,060.59</b>

COST ESTIMATES

PRIORITY RATING

Sewer Extension Master Plan

Priority Criteria and Scoring

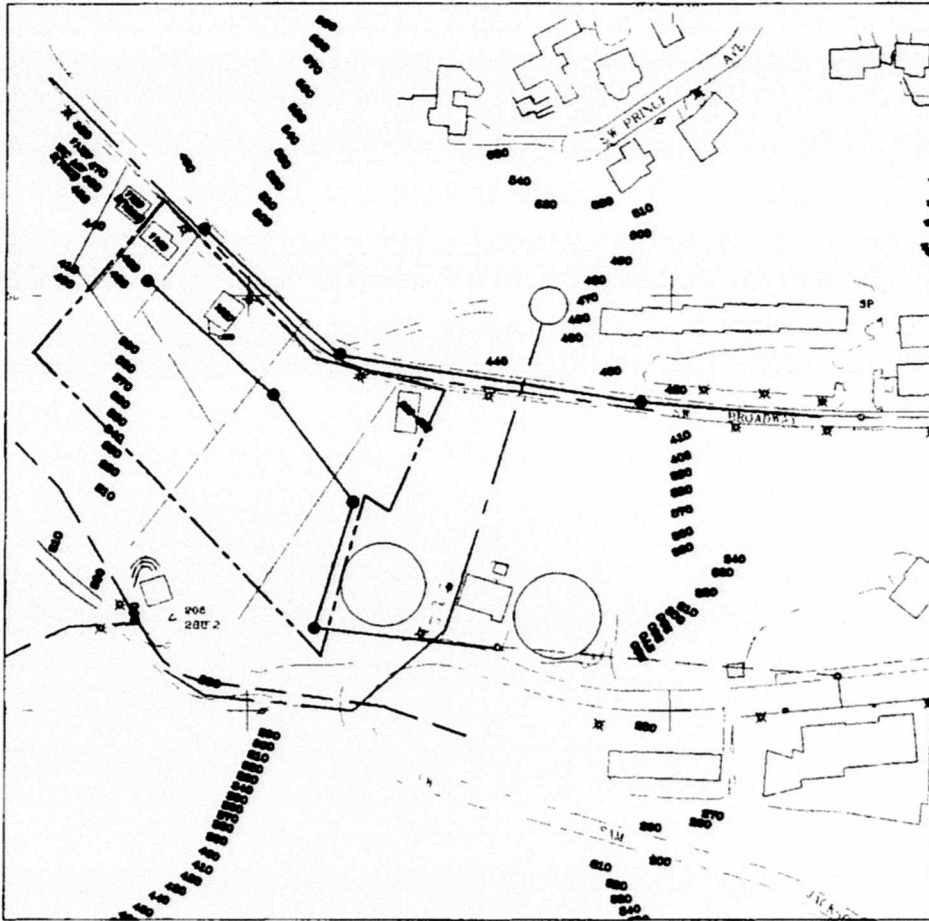
Project Area Number

105

CRITERIA	GUIDELINES	SCORE
<b>I Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many, well documented 5 = No Record	5
2 How many septic systems have been replaced? None 25 Percent 50 Percent >50 percent No records exist	0 points 4 points 7 points 9 points 5 points	5
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	yes No <input checked="" type="checkbox"/>	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 1 point	1
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 0 points	0
4 Will the project impact any environmental zones during construction?	yes 3 points no 8 points	8
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	8 points 5 points 2 points	2
		21

\* Annual CIP review should include survey of other bureaus for area projects

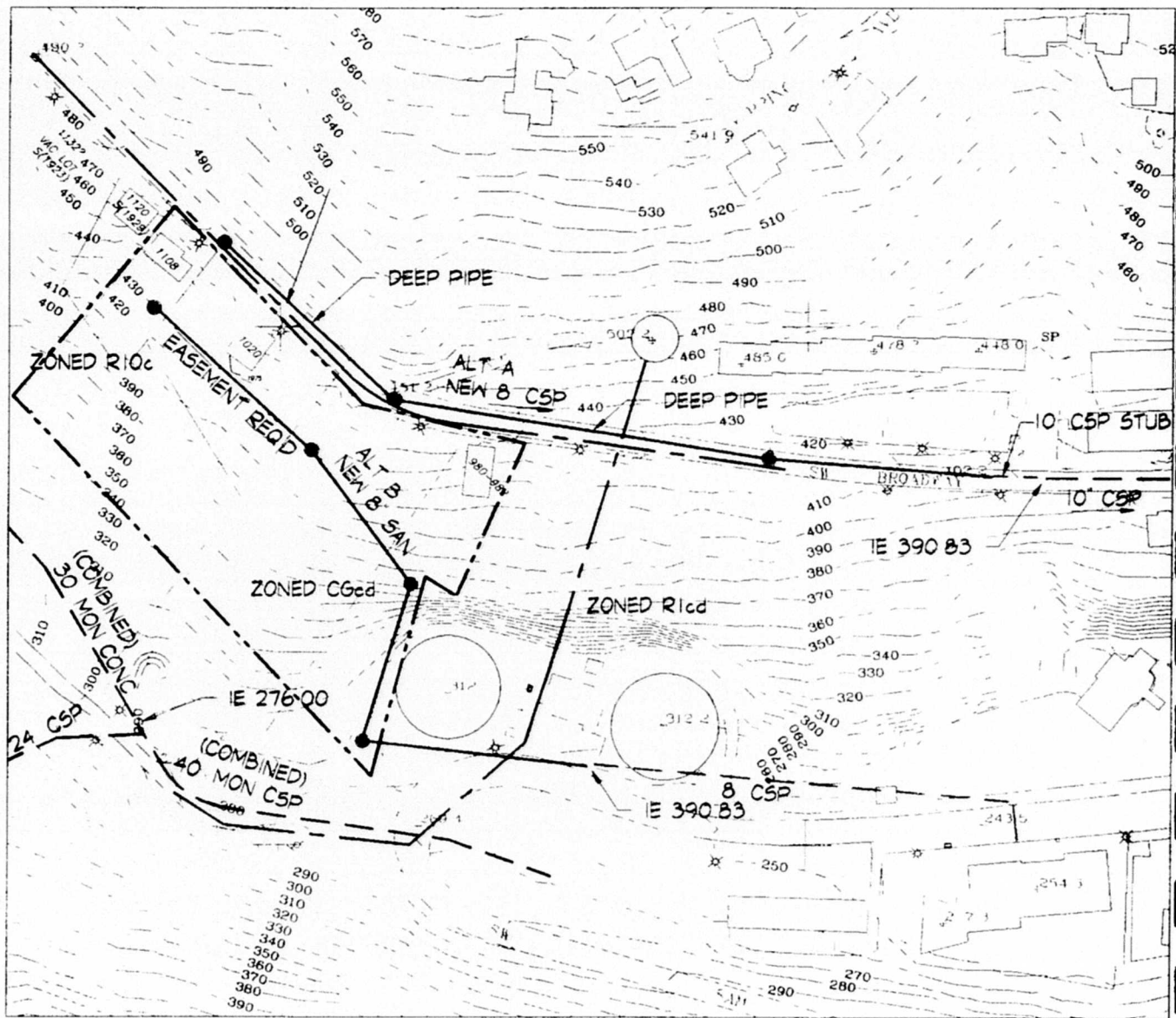
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NEIGHBORHOOD  
QUARTER SECTION  
LOCATION:  
CONTRIBUTES TO CSO?

SOUTHWEST HILLS  
3328  
SW BROADWAY DR  
NORTH FROM MARQUAM ST  
NO

AREA NO. 106



LEGEND

- NEW SANITARY LINE
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING WATER LINE
- BOUNDARY LINE
- FENCE LINE
- LOT LINES
- EXISTING MANHOLE
- NEW MANHOLE

B - BASEMENT  
S - SEWER CONNECTED



SCALE 1"=150'

AREA 106



**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

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AREA NO 106

NEIGHBORHOOD Southwest Hills

LOCATION the south side of  
SW Broadway

QUARTER SECTION 3328

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**Project Description:**

Four residences and a vacant lot are located along the south (downhill) side of SW Broadway and are not served by a public sewer. This project will provide sanitary sewer service to these 4 homes. South of these homes, the topography is extremely steep and is designated as an environmental conservation zone. Construction in this area will be costly due to the sensitive nature of the area and the difficult construction conditions on the hillside.

Gravity sewer service to these homes can be achieved through construction of an 8-inch sewer line beginning at an existing manhole located at the city's existing water reservoir on SW Sam Jackson Road and proceeding westerly to the service area. Total length of the line will be about 800 feet with most of the line located in a steep, wooded area. No homes or other properties with the potential for service exist until the line reaches SW Broadway.

Alternatively, a line may be located in SW Broadway to serve these homes. This line, while located in a public right-of-way, is more expensive but avoids the problems of working through an environmental zone and the associated permits that would be required. In addition, the alternate route will require detailed field survey to be sure gravity service can be provided to each of the homes.

The following figures and tables present detailed information about this project.

**Priority Ranking:**

Review of the existing septic system conditions and the age of the existing systems place this project as the number 53 priority project. No public record of septic system installation or replacement exists.

**Project Cost:**

Construction of this project will cost about \$ 78,000 (Alternate A) and about \$ 62,600.



(Alternate B) In all, 4 homes will receive sewage service connections to the public system

On average this project will cost \$ 26,005 (Alternate A), and \$20,868 (Alternate B) per residence This compares to a city-wide average of \$ 9769 per residence for all similar projects

CRANE MERSETH  
ENGINEERING/SURVEYING  
UN SEWERED AREAS

35471

AREA	PARCEL	OWNER FIRST NAME	LAST NAME	SITE	ADDRESS	CITY	ZIP
106	R99109 0130	Jeffrey A	Polk	980	SW Broadway Dr	Portland	97201
106	R99109 0260	Joseph	Goodbread	1020	SW Broadway Dr	Portland	97201
106	R99109 0930	Karne A	Knnke	1108	SW Broadway Dr	Portland	97201

**AREA 106A**

<b>ITEMS OF WORK &amp; MAT'LS</b>	<b>QUANTITY</b>	<b>UNIT PRICE</b>	<b>TOTAL AMOUNT</b>
8" ASTM C-14, CL 3 CSP	800 LF	\$ 25 00 LF	\$ 20,000 00
6" ASTM C-14, CL 3 CSP	60 LF	\$ 22 00 LF	\$ 1,320 00
6"X8" TEE, ASTM C-14, CL 3	3 EA	\$ 100 00 EA	\$ 300 00
48" STD PRECAST MH	3 EA	\$ 1,800 00 EA	\$ 5,400 00
48" STD PRECAST MH, OVER 8'	3 LF	\$ 200 00 LF	\$ 600 00
8" CONNECTION TO EXISTING MH	0 EA	\$ 600 00 EA	\$ -
8" CONNECTION TO EXISTING PIPE	1 EA	\$ 400 00 EA	\$ 400 00
COMMON TRENCH EXC & NATIVE BACKFILL	750 CY	\$ 15 00 CY	\$ 11,250 00
CSP PIPE BEDDING CLASS "C"	225 CY	\$ 25 00 CY	\$ 5,625 00
IMP GRANULAR BACKFILL	525 CY	\$ 10 00 CY	\$ 5,250 00
AC PAVEMENT REPLACEMENT 2" THICK	267 SY	\$ 20 00 SY	\$ 5,340 00
ROCK SURFACING	3 CY	\$ 20 00 CY	\$ 60 00
CONCRETE CURB REPLACEMENT	9 LF	\$ 20 00 LF	\$ 180 00
SIDEWALK REPLACEMENT	0 SF	\$ 50 00 SF	\$ -
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	0 EA	\$ 500 00 EA	\$ -
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 55,725.00</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 78,015 00</b>
EXISTING HOMES SERVED	3 EA		
VACANT LOTS SERVED	0 EA		
TOTAL SERVICES	3 EA		
<b>TOTAL COST PER SERVICE</b>			<b>\$ 26,005.00</b>

COST ESTIMATES

ITEMS OF WORK & MAT'LS	QUANTITY	UNIT PRICE	TOTAL AMOUNT
8" ASTM C-14, CL 3 CSP	750 LF	\$ 25 00 LF	\$ 18,750 00
6" ASTM C-14, CL 3 CSP	0 LF	\$ 22 00 LF	\$ -
6"X8" TEE, ASTM C-14, CL 3	3 EA	\$ 100 00 EA	\$ 300 00
48" STD PRECAST MH	3 EA	\$ 1,800 00 EA	\$ 5,400 00
48" STD PRECAST MH, OVER 8'	0 LF	\$ 200 00 LF	\$ -
8" CONNECTION TO EXISTING MH	1 EA	\$ 600 00 EA	\$ 600 00
8" CONNECTION TO EXISTING PIPE	0 EA	\$ 400 00 EA	\$ -
COMMON TRENCH EXC & NATIVE BACKFILL	667 CY	\$ 15 00 CY	\$ 10,000 00
CSP PIPE BEDDING CLASS "C"	200 CY	\$ 25 00 CY	\$ 5,000 00
IMP GRANULAR BACKFILL	467 CY	\$ 10 00 CY	\$ 4,666 67
AC PAVEMENT REPLACEMENT 2" THICK	0 SY	\$ 20 00 SY	\$ -
ROCK SURFACING	0 CY	\$ 20 00 CY	\$ -
CONCRETE CURB REPLACEMENT	0 LF	\$ 20 00 LF	\$ -
SIDEWALK REPLACEMENT	0 SF	\$ 50 00 SF	\$ -
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	0 EA	\$ 500 00 EA	\$ -
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 44,716.67</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 62,603.33</b>
EXISTING HOMES SERVED	3 EA		
VACANT LOTS SERVED	0 EA		
TOTAL SERVICES	3 EA		
TOTAL COST PER SERVICE			<b>\$ 20,867.78</b>

PRIORITY RATING

Sewer Extension Master Plan

Priority Criteria and Scoring

Project Area Number

106A

CRITERIA	GUIDELINES	SCORE
<b>I Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many, well documented 5 = No Record	5
2 How many septic systems have been replaced? None 25 Percent 50 Percent > 50 percent No records exist	0 points 4 points 7 points 9 points 5 points	0
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	Yes No	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 1 point	9
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 0 points	
4 Will the project impact any environmental zones during construction?	yes - 3 points no - 8 points	
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	8 points 5 points 2 points	2

\* Annual CIP review should include survey of other bureaus for area projects

Sewer Extension Master Plan

Priority Criteria and Scoring

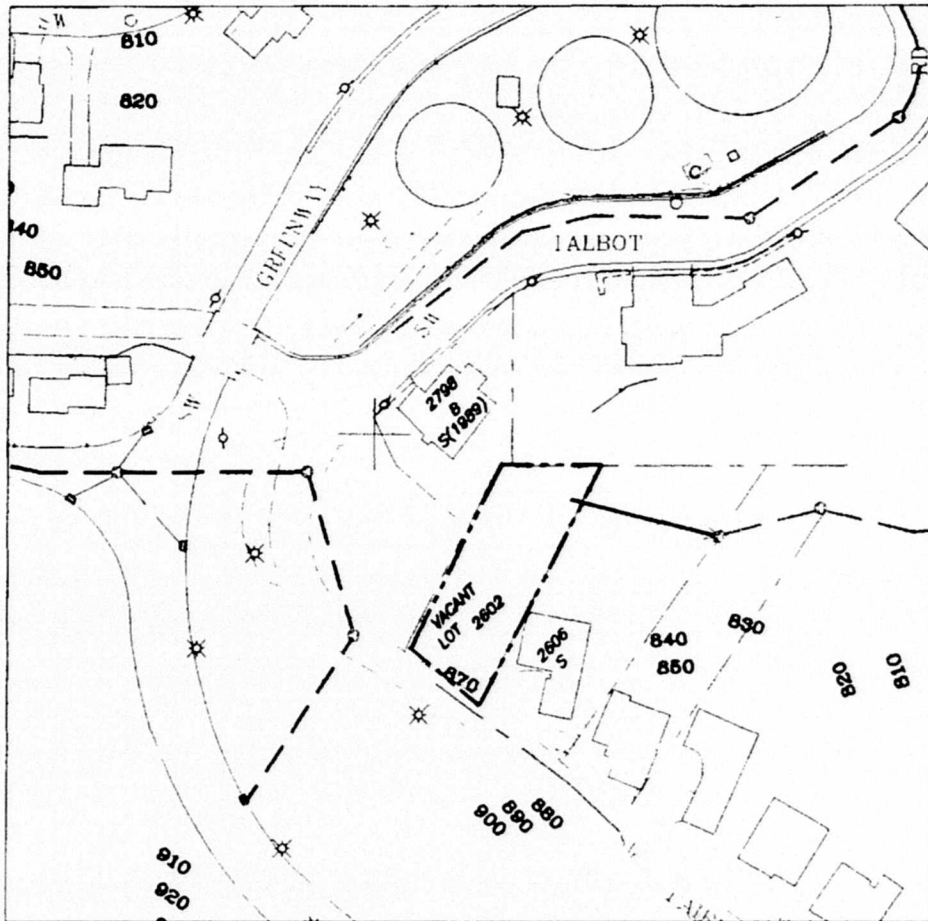
Project Area Number

106B

CRITERIA	GUIDELINES	SCORE
<b>I Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many, well documented 5 = No Record	5
2 How many septic systems have been replaced? None 25 Percent 50 Percent > 50 percent No records exist	0 points 4 points 7 points 9 points 5 points	0
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	Yes No <input checked="" type="checkbox"/>	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 1 point	1
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 0 points	0
4 Will the project impact any environmental zones during construction?	yes 3 points no 8 points	8
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	8 points 5 points 2 points	2

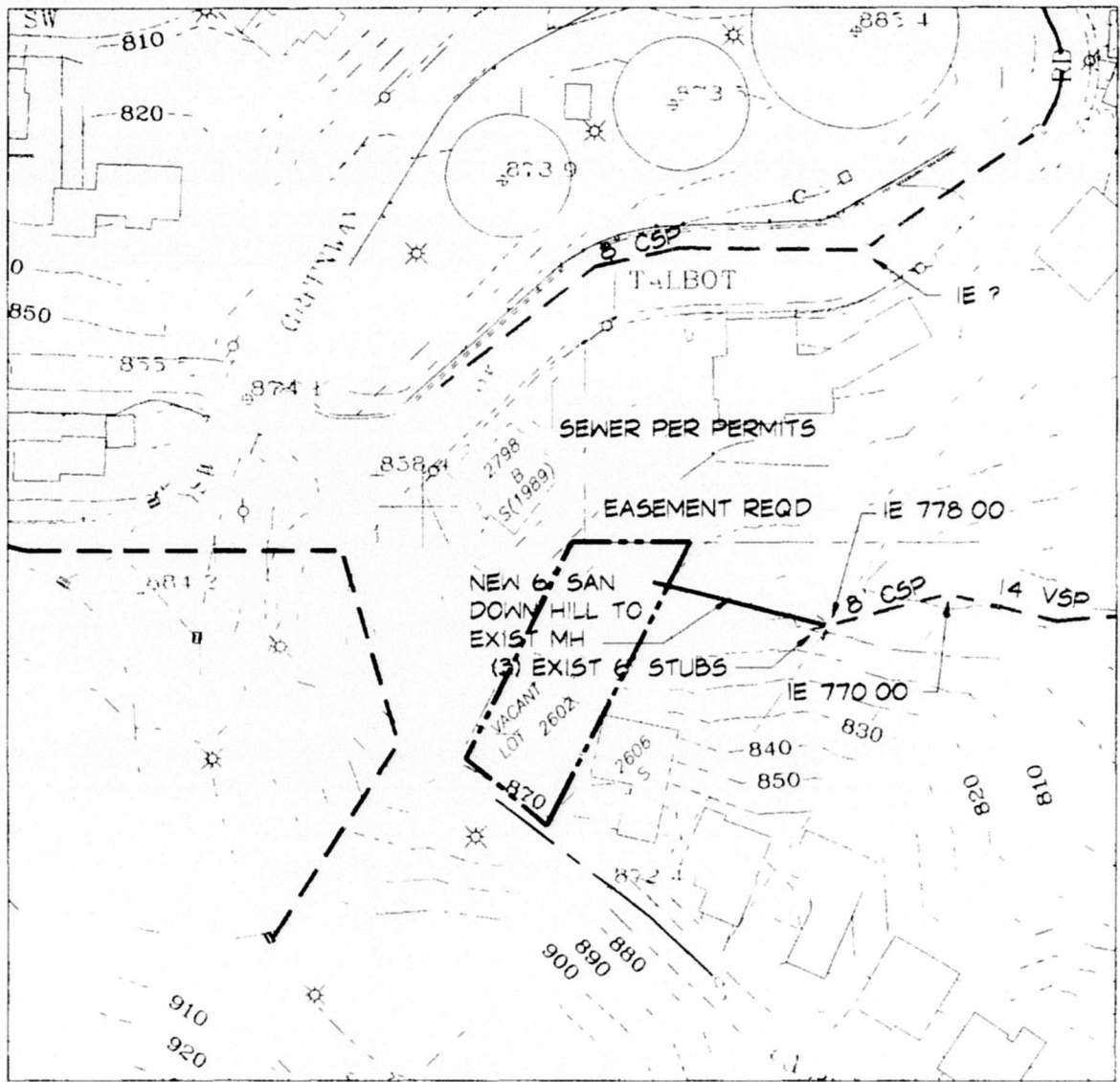
\* Annual CIP review should include survey of other bureaus for area projects

35471



NEIGHBORHOOD  
QUARTER SECTION  
LOCATION:  
CONTRIBUTES TO CSO?

SOUTHWEST HILLS  
3326  
SW FAIRMONT BLVD  
INTERSECTION OF TALBOT RD  
NO



LEGEND

- NEW SANITARY LINE
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING WATER LINE
- BOUNDARY LINE
- FENCE LINE
- LOT LINES
- EXISTING MANHOLE ⊙
- NEW MANHOLE ⊙

B - BASEMENT  
S - SEWER CONNECTED



SCALE 1"=100'

AREA 107





**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

---

AREA NO: 107

NEIGHBORHOOD: Southwest Hills

LOCATION: SW Fairmont south of  
SW Talbot

QUARTER SECTION: 3326

---

**Project Description:**

This project will provide sanitary sewer service to a vacant lot located on SW Fairmont. The connection for this lot will require an easement extension across the lower end of the lot serving 2606 SW Fairmont. The line will begin with a connection to the existing sewer system at the existing sewer and will extend 100 feet to the unsewered lot. No existing septic systems will be removed as a result of this project.

The following figures and tables present detailed information about this project.

**Priority Ranking:**

This project should be allocated a "hold" condition on the priority list. At such time as the property owner seeks a building permit, the city will choose to extend the sewer to the property line or negotiate an alternate position with the property owner.

**Project Cost:**

Construction of this project will cost about \$ 6800. This includes provision of service to the edge of the property but does not include the costs of an easement across the adjoining property.

On average this project will cost \$ 6737 per residence. This compares to a city-wide average of \$ 9769 per residence for all similar projects.



ITEMS OF WORK & MAT'LS	QUANTITY	UNIT PRICE	TOTAL AMOUNT
8" ASTM C-14, CL 3 CSP	0 LF	\$ 25 00 LF	\$ -
6" ASTM C-14, CL 3 CSP	100 LF	\$ 22 00 LF	\$ 2,200 00
6"X8" TEE, ASTM C-14, CL 3	1 EA	\$ 100 00 EA	\$ 100 00
48" STD PRECAST MH	0 EA	\$ 1,800 00 EA	\$ -
48" STD PRECAST MH, OVER 8'	0 LF	\$ 200 00 LF	\$ -
8" CONNECTION TO EXISTING MH	1 EA	\$ 600 00 EA	\$ 600 00
8" CONNECTION TO EXISTING PIPE	0 EA	\$ 400 00 EA	\$ -
COMMON TRENCH EXC & NATIVE BACKFILL	65 CY	\$ 15 00 CY	\$ 972 22
CSP PIPE BEDDING CLASS "C"	19 CY	\$ 25 00 CY	\$ 486 11
IMP GRANULAR BACKFILL	45 CY	\$ 10 00 CY	\$ 453 70
AC PAVEMENT REPLACEMENT 2" THICK	0 SY	\$ 20 00 SY	\$ -
ROCK SURFACING	0 CY	\$ 20 00 CY	\$ -
CONCRETE CURB REPLACEMENT	0 LF	\$ 20 00 LF	\$ -
SIDEWALK REPLACEMENT	0 SF	\$ 50 00 SF	\$ -
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	0 EA	\$ 500 00 EA	\$ -
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 4,812.04</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 6,736.85</b>
EXISTING HOMES SERVED	0 EA		
VACANT LOTS SERVED	1 EA		
TOTAL SERVICES	1 EA		
<b>TOTAL COST PER SERVICE</b>			<b>\$ 6,736.85</b>

PRIORITY RATING

Sewer Extension Master Plan

Priority Criteria and Scoring

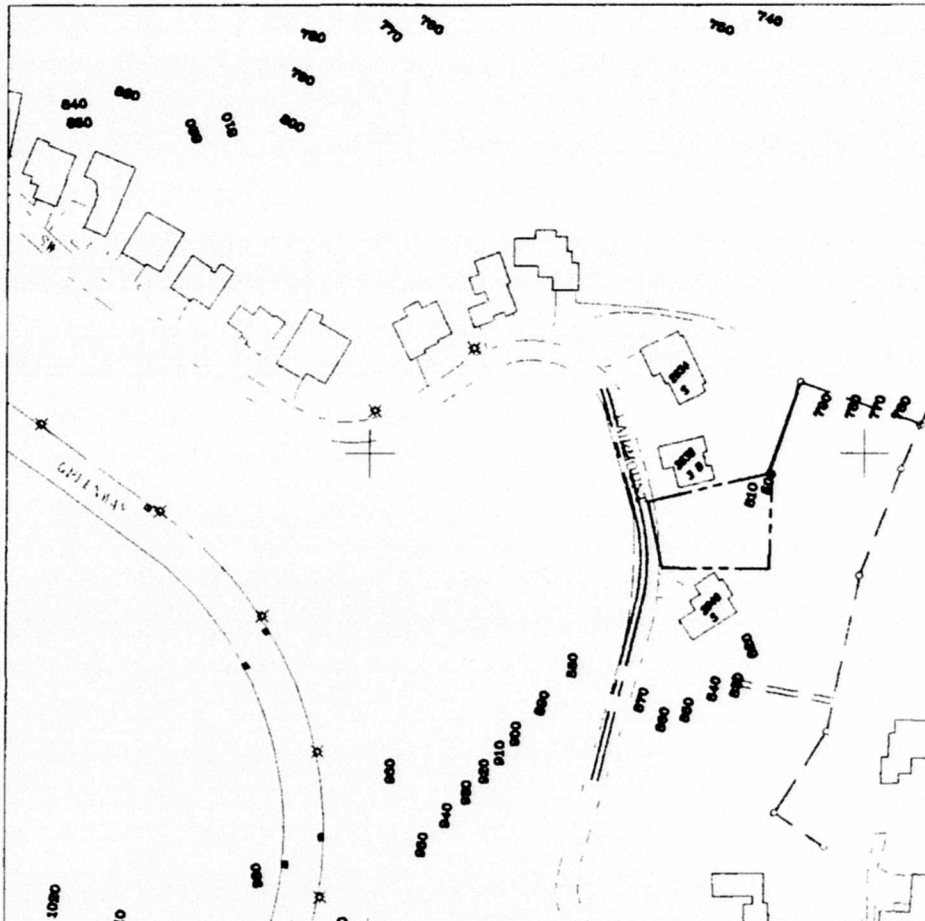
Project Area Number

107

CRITERIA	GUIDELINES	SCORE
<b>I. Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many, well documented 5 - No Record	5
2 How many septic systems have been replaced? None 25 Percent 50 Percent >50 percent No records exist	0 points 4 points 7 points 9 points 5 points	5
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	Yes No <input checked="" type="checkbox"/>	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 1 point	1
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 0 points	0
4 Will the project impact any environmental zones during construction?	yes 3 points no 8 points	8
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	8 points 5 points 2 points	8

\* Annual CIP review should include survey of other bureaus for area projects

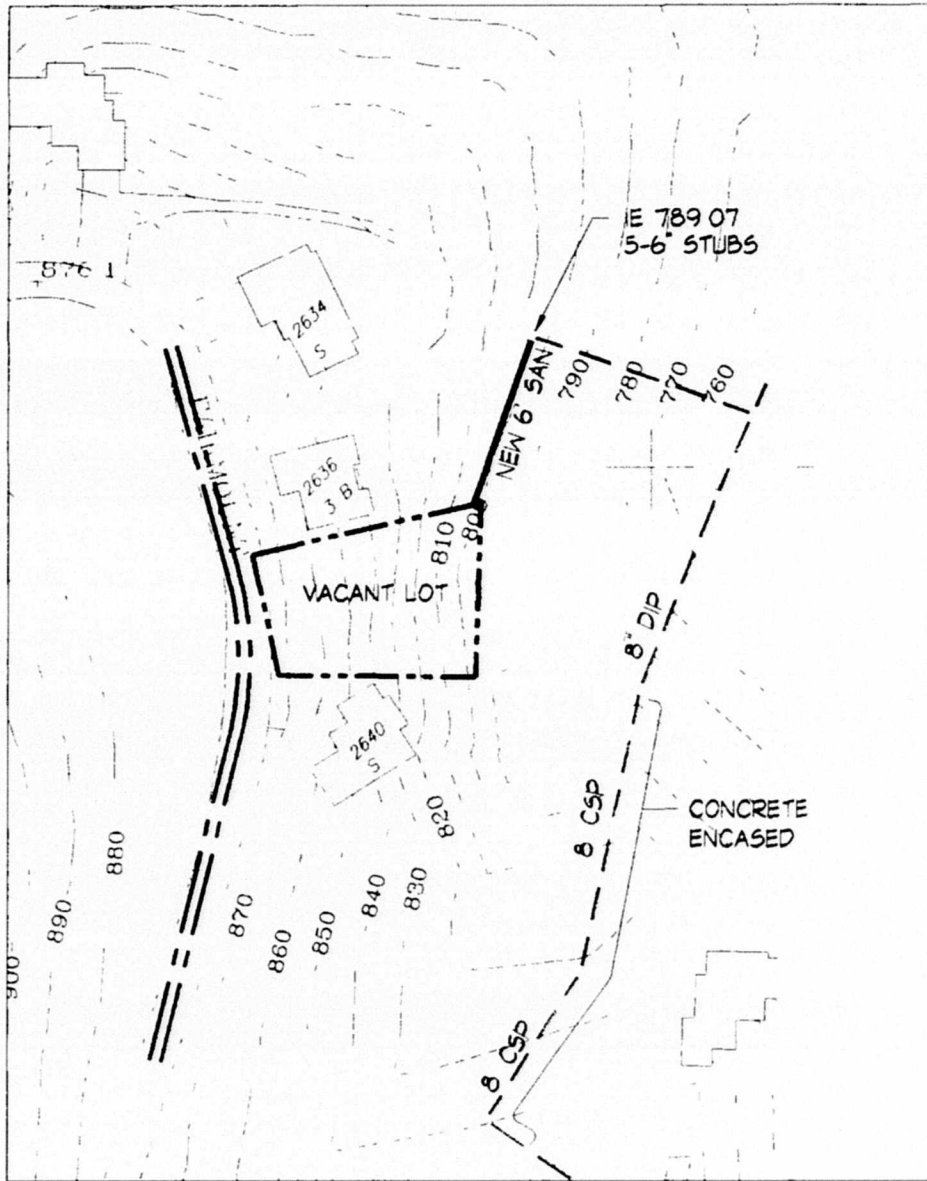
35471



NEIGHBORHOOD  
QUARTER SECTION  
LOCATION:  
CONTRIBUTES TO CSO?

SOUTHWEST HILLS  
3326  
SW FAIRMONT BLVD  
SOUTH OF TALBOT RD  
NO

AREA NO. 108



ALL HOUSES CONNECTED PER SEWER MAPS

LEGEND

NEW SANITARY LINE	=====
EXISTING SANITARY LINE	-----
EXISTING STORM LINE	- - - - -
EXISTING WATER LINE	=====
BOUNDARY LINE	-----
FENCE LINE	-----
LOT LINES	-----
EXISTING MANHOLE	⊙
NEW MANHOLE	⊙

B - BASEMENT  
S - SEWER CONNECTED



SCALE 1"=100'

AREA 108

35471

**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

---

AREA NO: 108

NEIGHBORHOOD: Southwest Hills

LOCATION: SW Fairmont between  
2636 and 2640 SW  
Fairmont

QUARTER SECTION: 3326

---

**Project Description:**

This project will provide sanitary sewer service to a vacant lot located on SW Fairmont between 2636 SW Fairmont and 2640 SW Fairmont. A 100-foot easement across the property at 2636 SW Fairmont will be required to serve this property. No septic systems are currently installed on the property and none will be removed through implementation of this property.

The following figures and tables present detailed information about this project.

**Priority Ranking:**

Similar to area 107, this project should be placed in a "hold" condition until the owner of the property decides to build a home on the lot. At that time the city may elect to construct a public sewer to the property line or may choose to negotiate a service connection other than the one shown here.

**Project Cost:**

Construction of this project will cost about \$ 6750. This includes provision of a service line to the edge of the property. The costs estimate does not include the cost of an easement to reach the edge of the property to be served.

On average this project will cost \$ 6737 per residence. This compares to a city-wide average of \$ 9769 per residence for all similar projects.





AREA 108

35471

ITEMS OF WORK & MAT'LS	QUANTITY	UNIT PRICE	TOTAL AMOUNT
8" ASTM C-14, CL 3 CSP	0 LF	\$ 25 00 LF	\$ -
6" ASTM C-14, CL 3 CSP	100 LF	\$ 22 00 LF	\$ 2,200 00
6"X8" TEE, ASTM C-14, CL 3	1 EA	\$ 100 00 EA	\$ 100 00
48" STD PRECAST MH	0 EA	\$ 1,800 00 EA	\$ -
48" STD PRECAST MH, OVER 8'	0 LF	\$ 200 00 LF	\$ -
8" CONNECTION TO EXISTING MH	1 EA	\$ 600 00 EA	\$ 600 00
8" CONNECTION TO EXISTING PIPE	0 EA	\$ 400 00 EA	\$ -
COMMON TRENCH	65 CY	\$ 15 00 CY	\$ 972 22
EXC & NATIVE BACKFILL			
CSP PIPE BEDDING	19 CY	\$ 25 00 CY	\$ 486 11
CLASS "C"			
IMP GRANULAR BACKFILL	45 CY	\$ 10 00 CY	\$ 453 70
AC PAVEMENT REPLACEMENT	0 SY	\$ 20 00 SY	\$ -
2" THICK			
ROCK SURFACING	0 CY	\$ 20 00 CY	\$ -
CONCRETE CURB REPLACEMENT	0 LF	\$ 20 00 LF	\$ -
SIDEWALK REPLACEMENT	0 SF	\$ 50 00 SF	\$ -
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	0 EA	\$ 500 00 EA	\$ -
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 4,812.04</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 6,736 85</b>
EXISTING HOMES SERVED	0 EA		
VACANT LOTS SERVED	1 EA		
TOTAL SERVICES	1 EA		
TOTAL COST PER SERVICE			\$ 6,736 85

PRIORITY RATING

Sewer Extension Master Plan

Priority Criteria and Scoring

Project Area Number

108

CRITERIA	GUIDELINES	SCORE
<b>I Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many, well documented 5 = No Record	0
2 How many septic systems have been replaced? None 25 Percent 50 Percent > 50 percent No records exist	0 points 4 points 7 points 9 points 5 points	0
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	Yes No <input checked="" type="checkbox"/>	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 1 point	1
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 0 points	0
4 Will the project impact any environmental zones during construction?	yes 3 points no 8 points	8
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	8 points 5 points 2 points	8

\* Annual CIP review should include survey of other bureaus for area projects

**AREA 109**

**35471**

**THIS NUMBER NOT USED  
COMBINED WITH AREA 141**

**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

---

AREA NO 109

NEIGHBORHOOD Southwest Hills

LOCATION SW Fairmont west  
of SW Gibbs

QUARTER SECTION 3427

---

**Project Description:**

This project will provide sewer service to two homes at the northwest corner of SW Fairmont and SW Gibbs Roads. It appears that the best service point for these two properties will come from the new line being proposed in project 141. Completion of this sewer extension will provide service to these two properties.

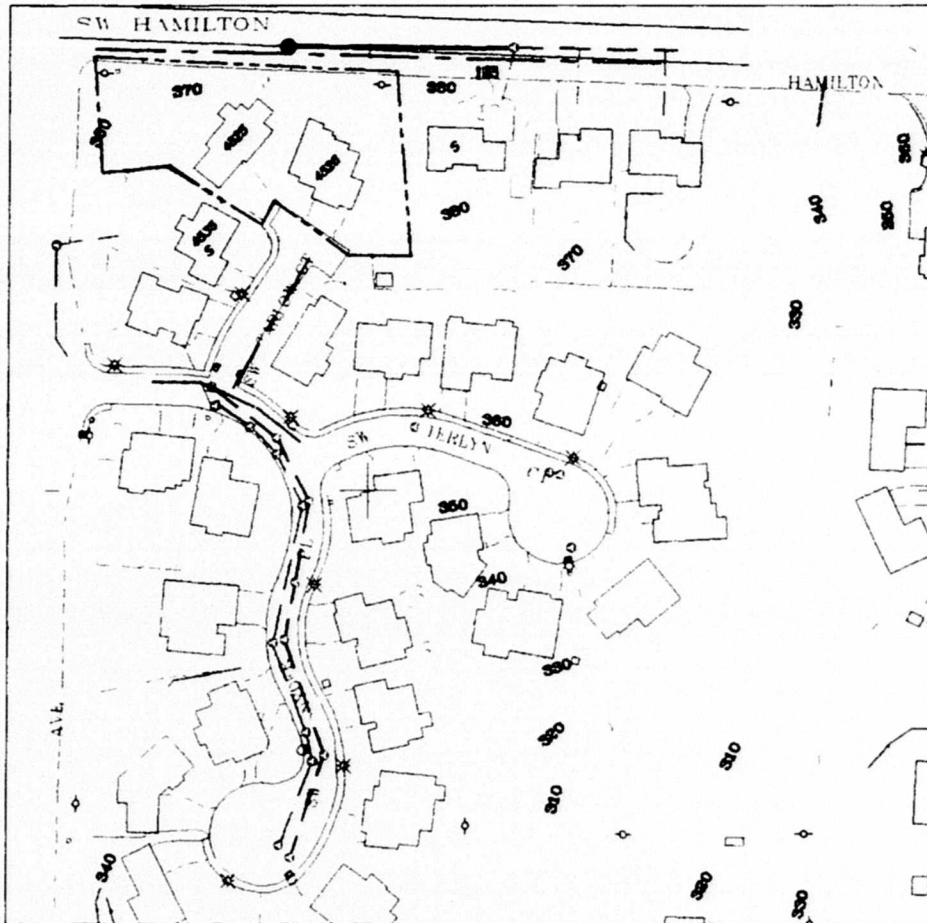
**Priority Ranking:**

Refer to project area 141

**Project Cost:**

Refer to project area 141 for cost information

35471



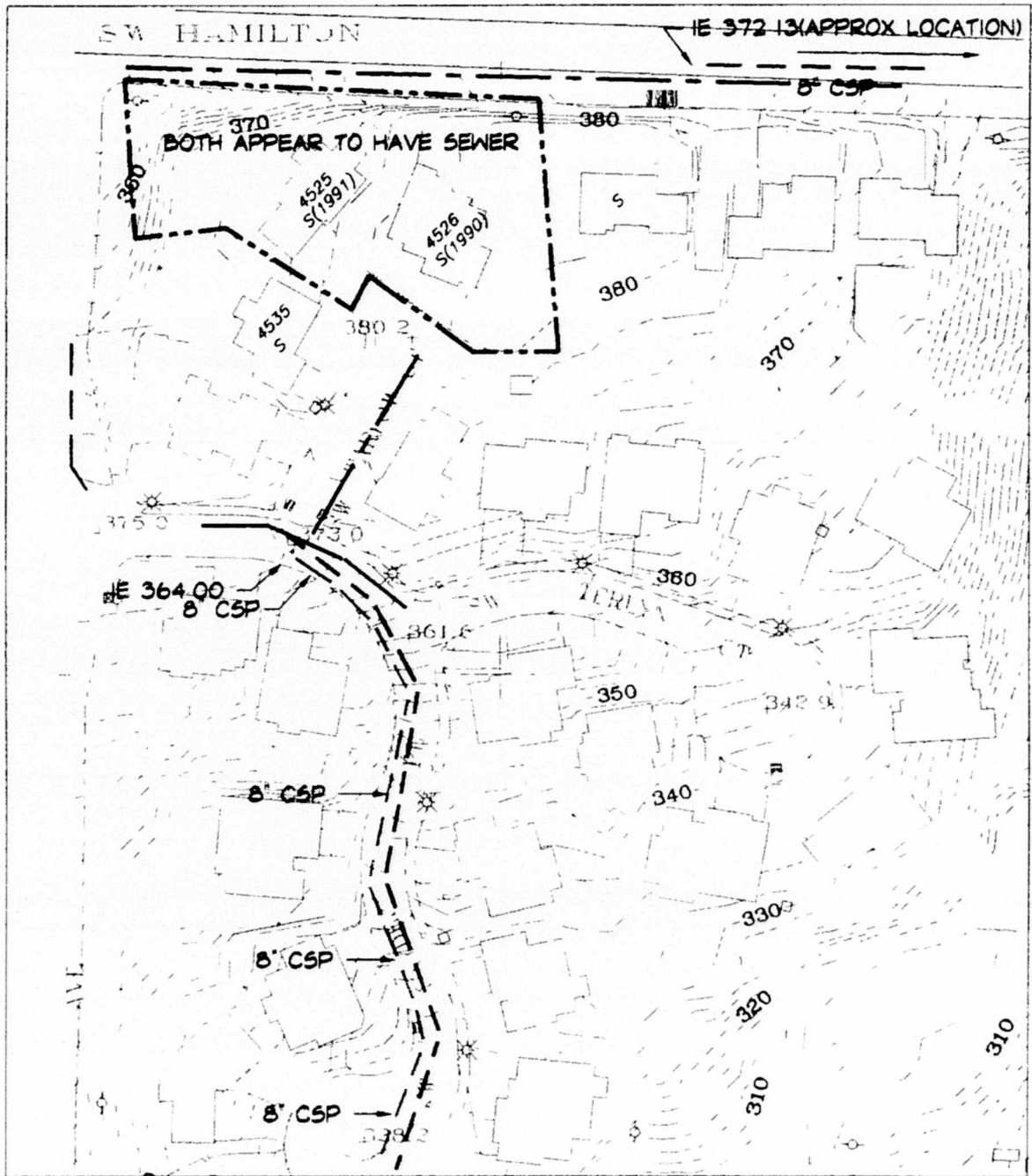
NEIGHBORHOOD  
QUARTER SECTION  
LOCATION

BRIDLE MILE  
3525  
SW HAMILTON ST  
NE CORNER OF SW 45th AVE

CONTRIBUTES TO CSO?

NO

AREA NO. 110



**LEGEND**

- NEW SANITARY LINE
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING WATER LINE
- BOUNDARY LINE
- FENCE LINE
- LOT LINES
- EXISTING MANHOLE
- NEW MANHOLE

B - BASEMENT  
S - SEWER CONNECTED



SCALE 1"=100'

AREA 110

**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

---

AREA NO 110

NEIGHBORHOOD Bridlemile

LOCATION SW Tarlow Ct north  
of SW Snyder Place

QUARTER SECTION 3525

---

**Project Description:**

Research of this project area indicated that the two homes in question may be served from a public sewer on SW Hamilton. There is no card record of septic system installation or do either home appear in the Metroscan system. If necessary, two options for sewer service exist, from SW Tarlow Court or from SW Hamilton to the north of the properties.

If needed, this project will provide sanitary sewer service to 2 homes on SW Tarlow Court. The line will begin with a connection to the existing sewer system at the intersection of SW Tarlow Court and SW Snyder Place and will extend 150 feet on SW Tarlow Court to its terminus in the cul-de-sac. Service lines will be extended from the public sewer to both lots.

The following figures and tables present detailed information about this project.

**Priority Ranking:**

Review of the existing septic system conditions and the age of the existing systems place this project as the number 43 priority project. Septic system records for these two homes do not exist in the city record.

**Project Cost:**

Construction of this project will cost about \$ 23,100. This includes provision of service lines to the edge of the property of each home. In all, 2 homes will receive sewage service connections to the public system.

On average this project will cost \$ 11,535 per residence. This compares to a city-wide average of \$ 9769 per residence for all similar projects.

**AREA 110**

<b>ITEMS OF WORK &amp; MAT'LS</b>	<b>QUANTITY</b>	<b>UNIT PRICE</b>	<b>TOTAL AMOUNT</b>
8" ASTM C-14, CL 3 CSP	190 LF	\$ 25 00 LF	\$ 4,750 00
6" ASTM C-14, CL 3 CSP	60 LF	\$ 22 00 LF	\$ 1,320 00
6"X8" TEE, ASTM C-14, CL 3	2 EA	\$ 100 00 EA	\$ 200 00
48" STD PRECAST MH	1 EA	\$ 1,800 00 EA	\$ 1,800 00
48" STD PRECAST MH, OVER 8'	0 LF	\$ 200 00 LF	\$ -
8" CONNECTION TO EXISTING MH	1 EA	\$ 600 00 EA	\$ 600 00
8" CONNECTION TO EXISTING PIPE	0 EA	\$ 400 00 EA	\$ -
COMMON TRENCH EXC & NATIVE BACKFILL	208 CY	\$ 15 00 CY	\$ 3,116 67
CSP PIPE BEDDING CLASS "C"	62 CY	\$ 25 00 CY	\$ 1,558 33
IMP GRANULAR BACKFILL	145 CY	\$ 10 00 CY	\$ 1,454 44
AC PAVEMENT REPLACEMENT 2" THICK	80 SY	\$ 20 00 SY	\$ 1,600 00
ROCK SURFACING	4 CY	\$ 20 00 CY	\$ 80 00
CONCRETE CURB REPLACEMENT	0 LF	\$ 20 00 LF	\$ -
SIDEWALK REPLACEMENT	0 SF	\$ 50 00 SF	\$ -
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	0 EA	\$ 500 00 EA	\$ -
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 16,479 44</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 23,071.22</b>
EXISTING HOMES SERVED	2 EA		
VACANT LOTS SERVED	0 EA		
TOTAL SERVICES	2 EA		
<b>TOTAL COST PER SERVICE</b>			<b>\$ 11,535 61</b>



Sewer Extension Master Plan

Priority Criteria and Scoring

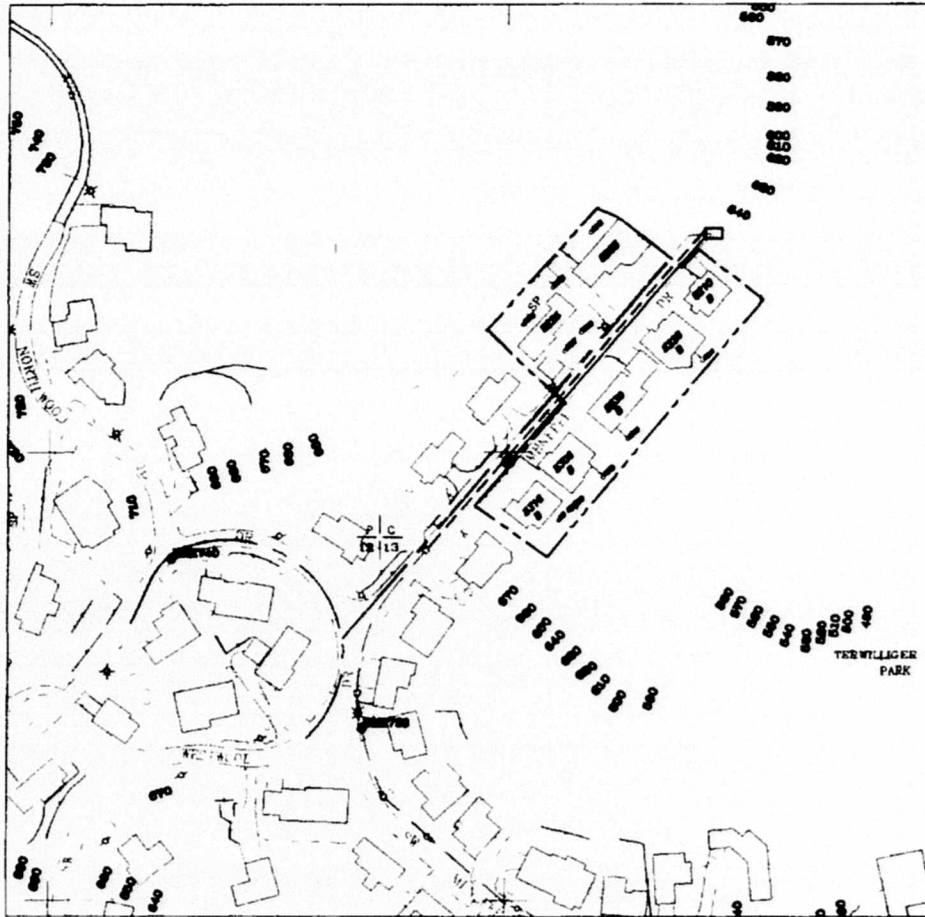
Project Area Number

110

CRITERIA	GUIDELINES	SCORE
<b>I Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many, well documented 5 = No Record	0
2 How many septic systems have been replaced? None 25 Percent 50 Percent > 50 percent No records exist	0 points 4 points 7 points 9 points 5 points	6
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	no X	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 1 point	1
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 1 point	
4 Will the project impact any environmental zones during construction?	yes - 3 points no 8 points	8
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	8 points 5 points 2 points	5

\* Annual CIP review should include survey of other bureaus for area projects

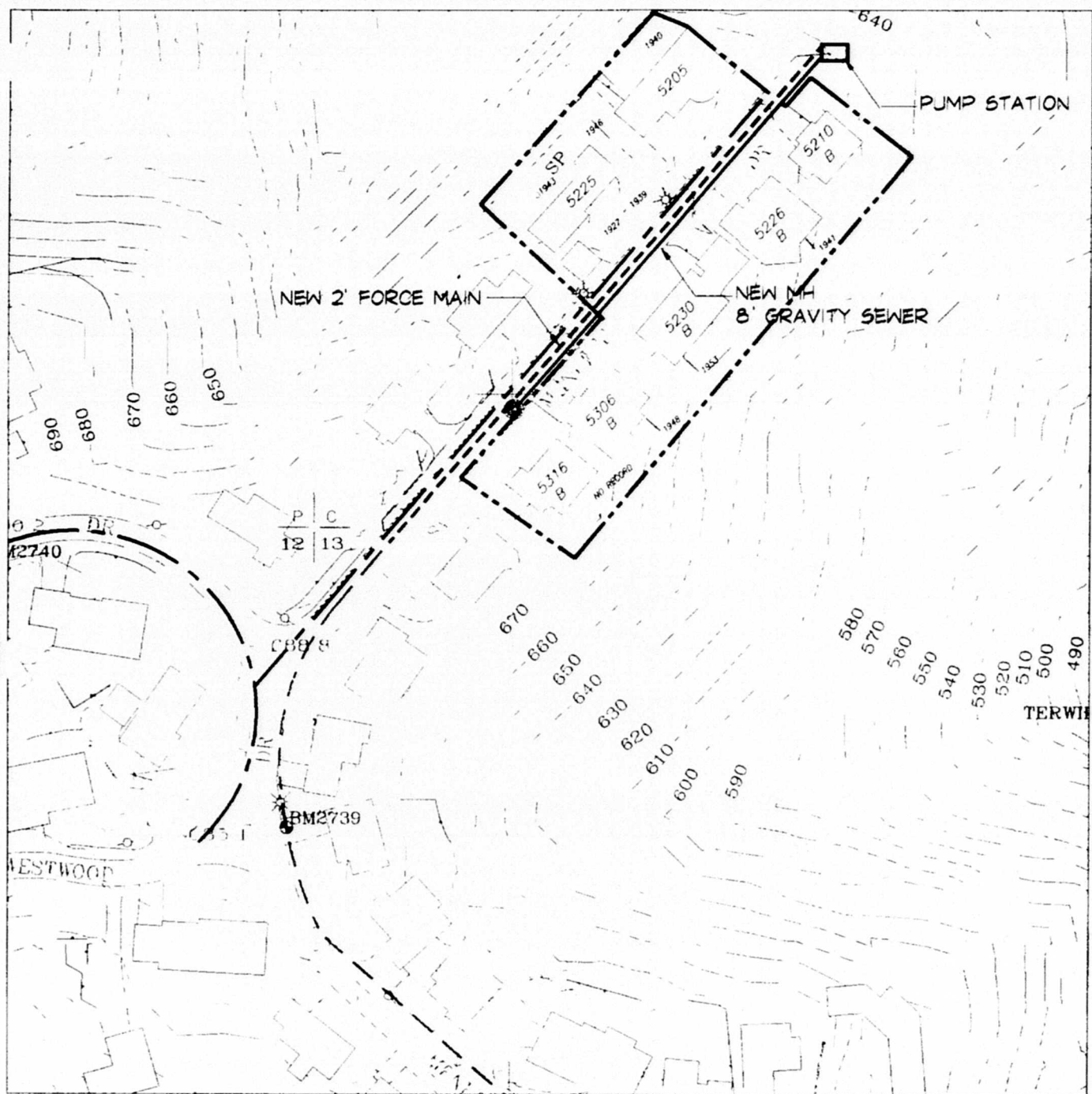
35471



NEIGHBORHOOD  
QUARTER SECTION  
LOCATION  
CONTRIBUTES TO CSO?

BRIDLE MILE  
3528  
SW MENEFFEE DR  
NE FROM NORTHWOOD AVE  
NO

AREA NO. 111



LEGEND

- NEW SANITARY LINE
- EXISTING SANITARY LINE
- FORCE MAIN
- EXISTING WATER LINE
- BOUNDARY LINE
- FENCE LINE
- LOT LINES
- EXISTING MANHOLE
- NEW MANHOLE

B - BASEMENT  
S - SEWER CONNECTED



SCALE 1"=100'

AREA 111

**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

---

AREA NO 111

NEIGHBORHOOD Bridlemile

LOCATION SW Meneffe Drive  
east of SW Westwood Dr

QUARTER SECTION 3528

---

**Project Description:**

This project will provide sanitary sewer service to 7 homes in southwest Portland. The line will extend northeast to the end of SW Meneffe Drive where it will discharge to a pumping station. The pump station will pump raw sewage back up SW Meneffe Drive to an existing sewer on SW Westwood Drive. The gravity sewer on SW Meneffe Drive will extend 325 feet to the pump station and the force main back to SW Westwood Drive will be about 460 feet long. A small diameter force main of 3 or 4 inches will suffice.

The following figures and tables present detailed information about this project.

**Priority Ranking:**

Review of the existing septic system conditions and the age of the existing systems place this project as the number 52 priority project. Five of the seven homes in the project area have records of septic system installation. Most date to the 1940's for the initial installation and no records of replacements or reconstruction appear in the record.

**Project Cost:**

Construction of this project will cost about \$ 64,000. This includes provision of service lines to the edge of the property of each home. In all, 7 homes will receive sewage service connections to the public system.

On average this project will cost \$ 9134 per residence. This compares to a city-wide average of \$ 9769 per residence for all similar projects.

CRANE MERSETH  
ENGINEERING/SURVEYING  
UN SEWERED AREAS

AREA	PARCEL	OWNER FIRST NAME	LAST NAME	SITE	ADDRESS	CITY	ZIP
111	R82550 0970	Clifford E & Margaret A	Thomas	5210	SW Menefee Dr	Portland	97201
111	R82550 0950	Terry R & Lynne B	Lock	5226	SW Menefee Dr	Portland	97201
111	R82550 0890	Lars & Joan	Haugen	5306	SW Menefee Dr	Portland	97201
111	R82550 0870	Mary E	Stanger	5316	SW Menefee Dr	Portland	97201
111	R82550 0910	Kathryn M	Turner	5230	SW Menefee Dr	Portland	97201
111	R82550 1090	Patrick A & Kandi G	Walters	5225	SW Menefee Dr	Portland	97201
111	R82550 1110	Mark A & Catherine R	Turner	5205	SW Menefee Dr	Portland	97201

ITEMS OF WORK & MAT'LS	QUANTITY	UNIT PRICE	TOTAL AMOUNT
8" ASTM C-14, CL 3 CSP	340 LF	\$ 25 00 LF	\$ 8,500 00
2" PRESSURE LINE	460 LF	\$ 6 00 LF	\$ 2,760 00
6" ASTM C-14, CL 3 CSP	140 LF	\$ 22 00 LF	\$ 3,080 00
6"X8" TEE, ASTM C-14, CL 3	7 EA	\$ 100 00 EA	\$ 700 00
48" STD PRECAST MH	1 EA	\$ 1,800 00 EA	\$ 1,800 00
PUMP STATION	1 EA	\$ 14,000 00 EA	\$ 14,000 00
48" STD PRECAST MH, OVER 8'	0 LF	\$ 200 00 LF	\$ -
8" CONNECTION TO EXISTING MH	1 EA	\$ 600 00 EA	\$ 600 00
8" CONNECTION TO EXISTING PIPE	0 EA	\$ 400 00 EA	\$ -
COMMON TRENCH EXC & NATIVE BACKFILL	393 CY	\$ 15 00 CY	\$ 5,894 44
CSP PIPE BEDDING CLASS "C"	118 CY	\$ 25 00 CY	\$ 2,947 22
IMP GRANULAR BACKFILL	275 CY	\$ 10 00 CY	\$ 2,750 74
AC PAVEMENT REPLACEMENT 2" THICK	113 SY	\$ 20 00 SY	\$ 2,260 00
ROCK SURFACING	19 CY	\$ 20 00 CY	\$ 380 00
CONCRETE CURB REPLACEMENT	0 LF	\$ 20 00 LF	\$ -
SIDEWALK REPLACEMENT	0 SF	\$ 50 00 SF	\$ -
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	0 EA	\$ 500 00 EA	\$ -
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 45,672 41</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 63,941 37</b>
EXISTING HOMES SERVED	7 EA		
VACANT LOTS SERVED	0 EA		
TOTAL SERVICES	7 EA		
TOTAL COST PER SERVICE			<b>\$ 9,134.48</b>

PRIORITY RATING

Sewer Extension Master Plan

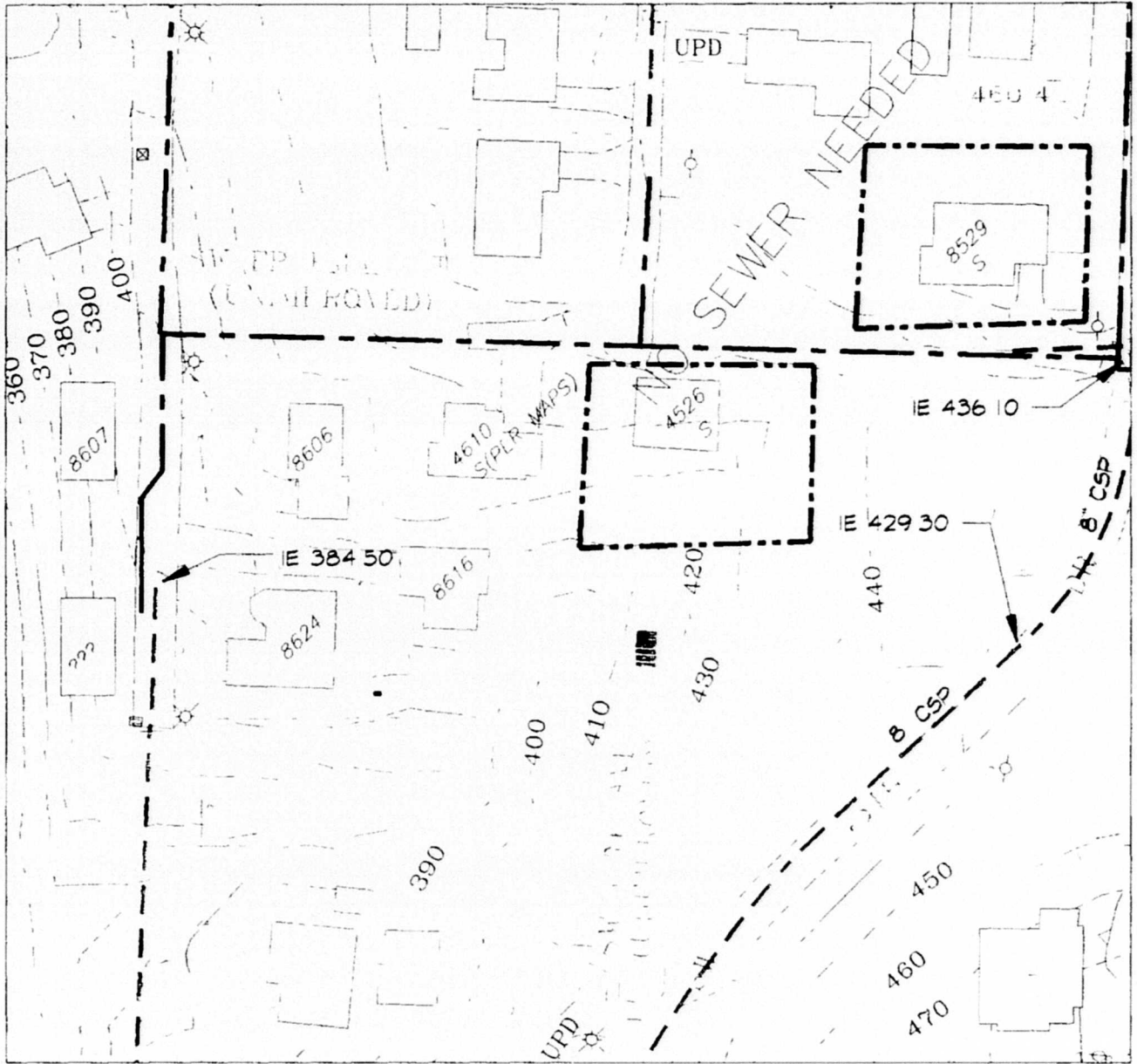
Priority Criteria and Scoring

Project Area Number

111

CRITERIA	GUIDELINES	SCORE
<b>I Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many well documented 5 = No Record	2
2 How many septic systems have been replaced? None 25 Percent 50 Percent > 50 percent No records exist	0 points 4 points 7 points 9 points 5 points	2
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	Yes No <input checked="" type="checkbox"/>	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 1 point	1
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 0 points	0
4 Will the project impact any environmental zones during construction?	yes 3 points no 8 points	8
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	9 points 5 points 2 points	5

\* Annual CIP review should include survey of other bureaus for area projects



BOTH HAVE SEWER  
 VERIFIED AT SEWER MAPS AND CARDS

LEGEND

- NEW SANITARY LINE
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING WATER LINE
- BOUNDARY LINE
- FENCE LINE
- LOT LINES
- EXISTING MANHOLE ☉
- NEW MANHOLE ⊙

B - BASEMENT  
 S - SEWER CONNECTED



SCALE 1"=80'

AREA 112



**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

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AREA NO 112

NEIGHBORHOOD

LOCATION SW Freeman St at  
SW 46th Avenue

QUARTER SECTION

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**Project Description:**

Investigation of these two properties indicate that both have sanitary sewer connections to the public sewer system. No line extensions or other work is needed for this project area.

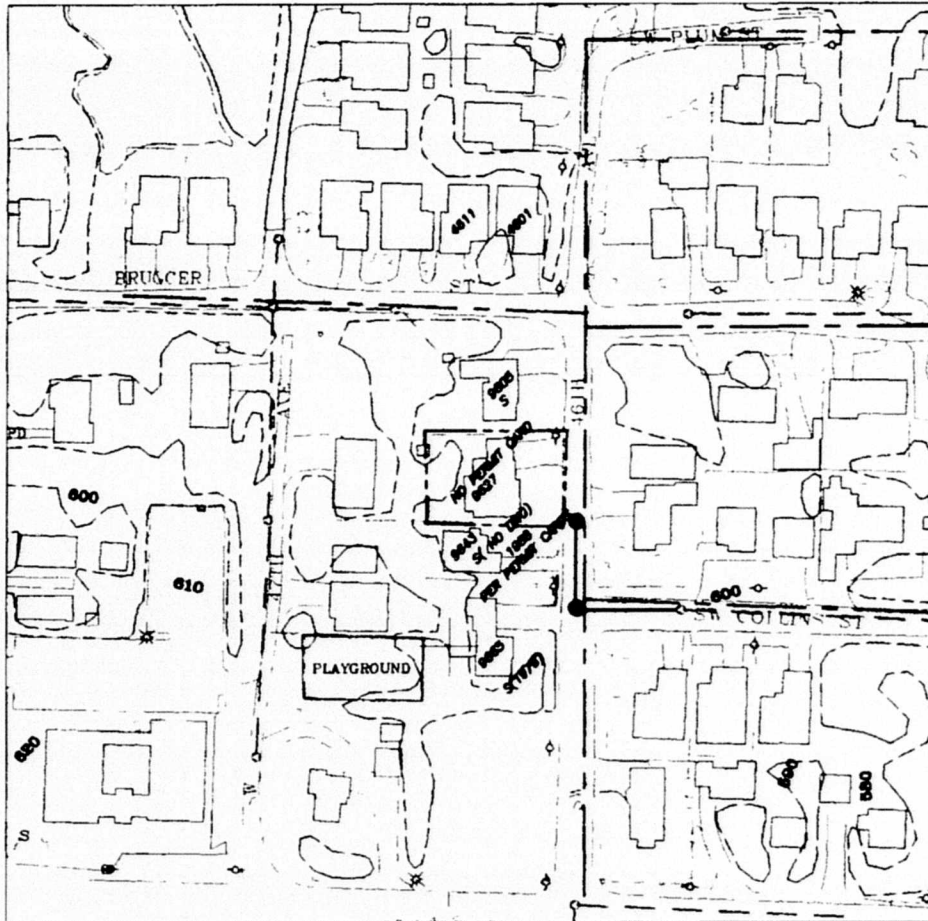
**Priority Ranking:**

Not applicable

**Project Cost:**

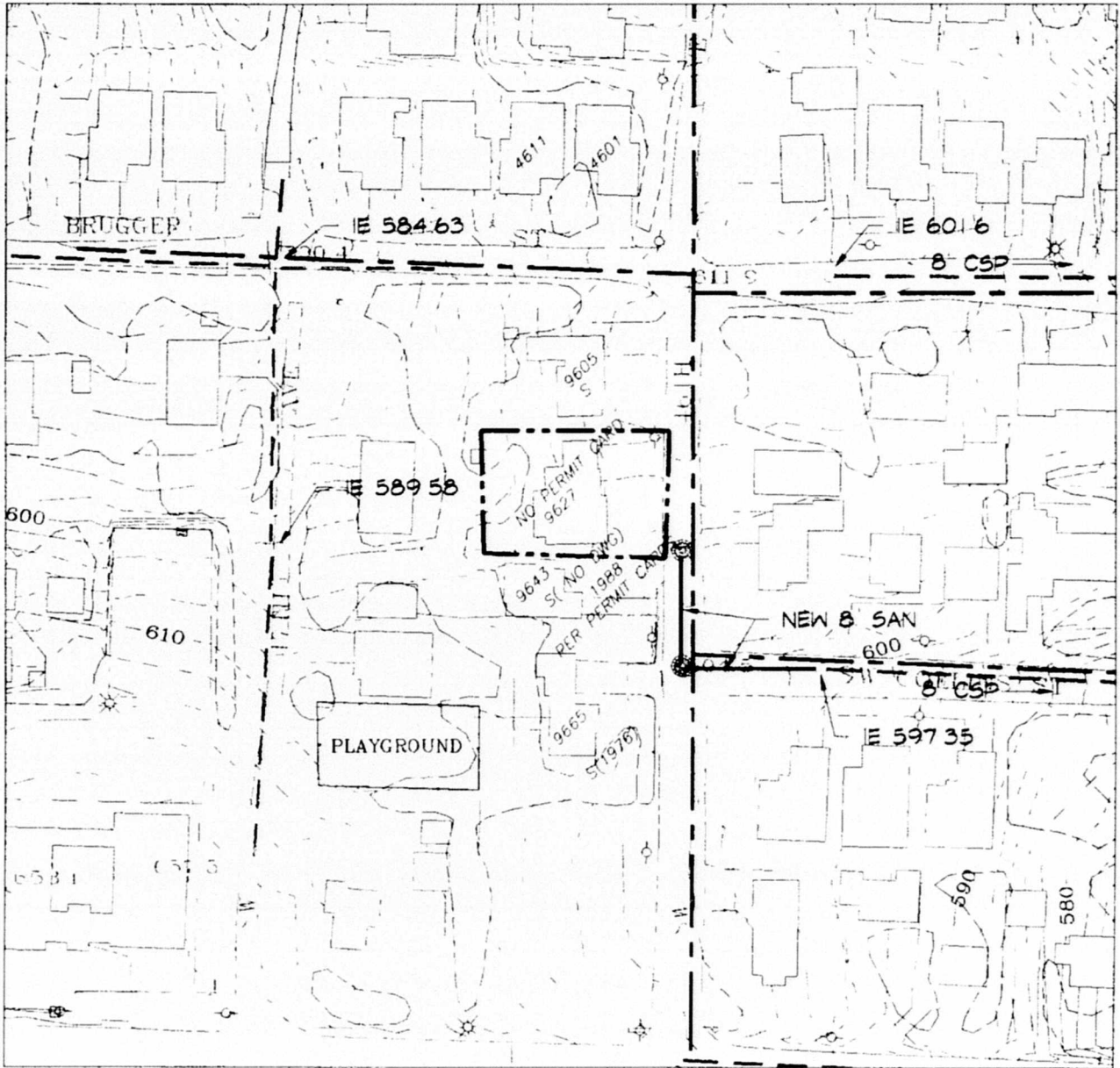
Not applicable

35471



NEIGHBORHOOD	CRESTWOOD
QUARTER SECTION	3924
LOCATION	SW 46th AVE TAYLOR FERRY - ELIZABETH ST
CONTRIBUTES TO CSO?	NO

AREA NO. 113



LEGEND

- NEW SANITARY LINE
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING WATER LINE
- BOUNDARY LINE
- FENCE LINE
- LOT LINES
- EXISTING MANHOLE ○
- NEW MANHOLE ⊙

B - BASEMENT  
S - SEWER CONNECTED



SCALE 1"=100'

AREA 113

**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

---

AREA NO 113

NEIGHBORHOOD Crestwood

LOCATION 9627 SW 46th Avenue  
south of SW Brugger

QUARTER SECTION 3924

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**Project Description:**

This project will provide sanitary sewer service to the home at 9627 SW 46th Avenue. The line will begin with a connection to the existing sewer system on SW Collins Street and will extend 80 feet west to the intersection with SW 46th Avenue. Then it will extend 70 feet north on SW 46th Avenue to 9627 SW 46th Avenue.

The following figures and tables present detailed information about this project.

**Priority Ranking:**

Review of the existing septic system conditions and the age of the existing systems place this project as the number 31 priority project. No records or service cards were found in the city file on this property.

**Project Cost:**

Construction of this project will cost about \$ 20,008. This includes provision of service lines to the edge of the property of the home.

On average this project will cost \$ 20,008 per residence. This compares to a city-wide average of \$ 9769 per residence for all similar projects.

**CRANE MERSETH  
ENGINEERING/SURVEYING  
UN SEWERED AREAS**

AREA	PARCEL	OWNER FIRST NAME	LAST NAME	SITE	ADDRESS	CITY	ZIP
113	R89421 0050	Irvin N & Rhoda V	Anderson	9627	SW 46th Ave	Portland	97219

ITEMS OF WORK & MAT'LS	QUANTITY	UNIT PRICE	TOTAL AMOUNT
8" ASTM C-14, CL 3 CSP	150 LF	\$ 25 00 LF	\$ 3,750 00
6" ASTM C-14, CL 3 CSP	25 LF	\$ 22 00 LF	\$ 550 00
6"X8" TEE, ASTM C-14, CL 3	1 EA	\$ 100 00 EA	\$ 100 00
48" STD PRECAST MH	2 EA	\$ 1,800 00 EA	\$ 3,600 00
48" STD PRECAST MH, OVER 8'	0 LF	\$ 200 00 LF	\$ -
8" CONNECTION TO EXISTING MH	1 EA	\$ 600 00 EA	\$ 600 00
8" CONNECTION TO EXISTING PIPE	0 EA	\$ 400 00 EA	\$ -
COMMON TRENCH EXC & NATIVE BACKFILL	150 CY	\$ 15 00 CY	\$ 2,243 06
CSP PIPE BEDDING CLASS "C"	45 CY	\$ 25 00 CY	\$ 1,121 53
IMP GRANULAR BACKFILL	105 CY	\$ 10 00 CY	\$ 1,046 76
AC PAVEMENT REPLACEMENT 2" THICK	57 SY	\$ 20 00 SY	\$ 1,140 00
ROCK SURFACING	7 CY	\$ 20 00 CY	\$ 140 00
CONCRETE CURB REPLACEMENT	0 LF	\$ 20 00 LF	\$ -
SIDEWALK REPLACEMENT	0 SF	\$ 50 00 SF	\$ -
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	0 EA	\$ 500 00 EA	\$ -
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 14,291 34</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 20,007.88</b>
EXISTING HOMES SERVED	1 EA		
VACANT LOTS SERVED	0 EA		
TOTAL SERVICES	1 EA		
TOTAL COST PER SERVICE			<b>\$ 20,007.88</b>

PRIORITY RATING

Sewer Extension Master Plan

Priority Criteria and Scoring

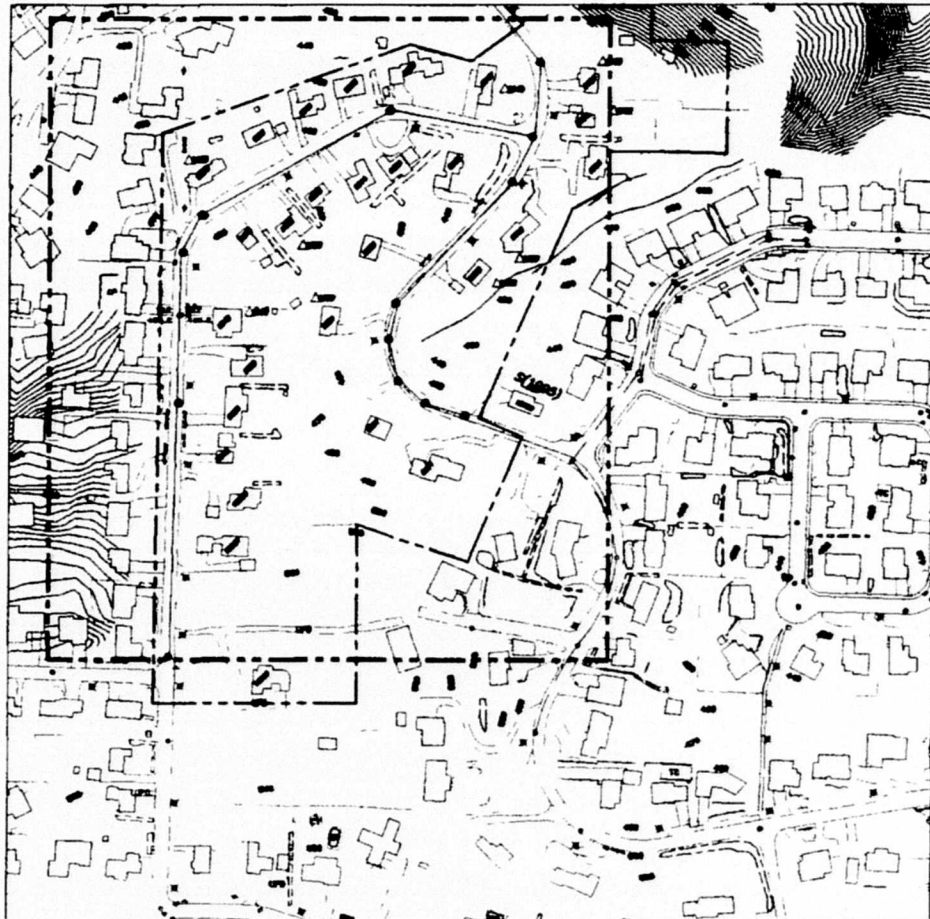
Project Area Number

112

CRITERIA	GUIDELINES	SCORE
<b>I Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many, well documented 5 No Record	5
2 How many septic systems have been replaced? None 25 Percent 50 Percent > 50 percent No records exist	0 points 4 points 7 points 9 points 5 points	5
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	yes No <input checked="" type="checkbox"/>	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 1 point	1
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 0 points	0
4 Will the project impact any environmental zones during construction?	yes 3 points no 8 points	8
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	9 points 5 points 2 points	2

\* Annual CIP review should include survey of utility bureaus for area projects

35471

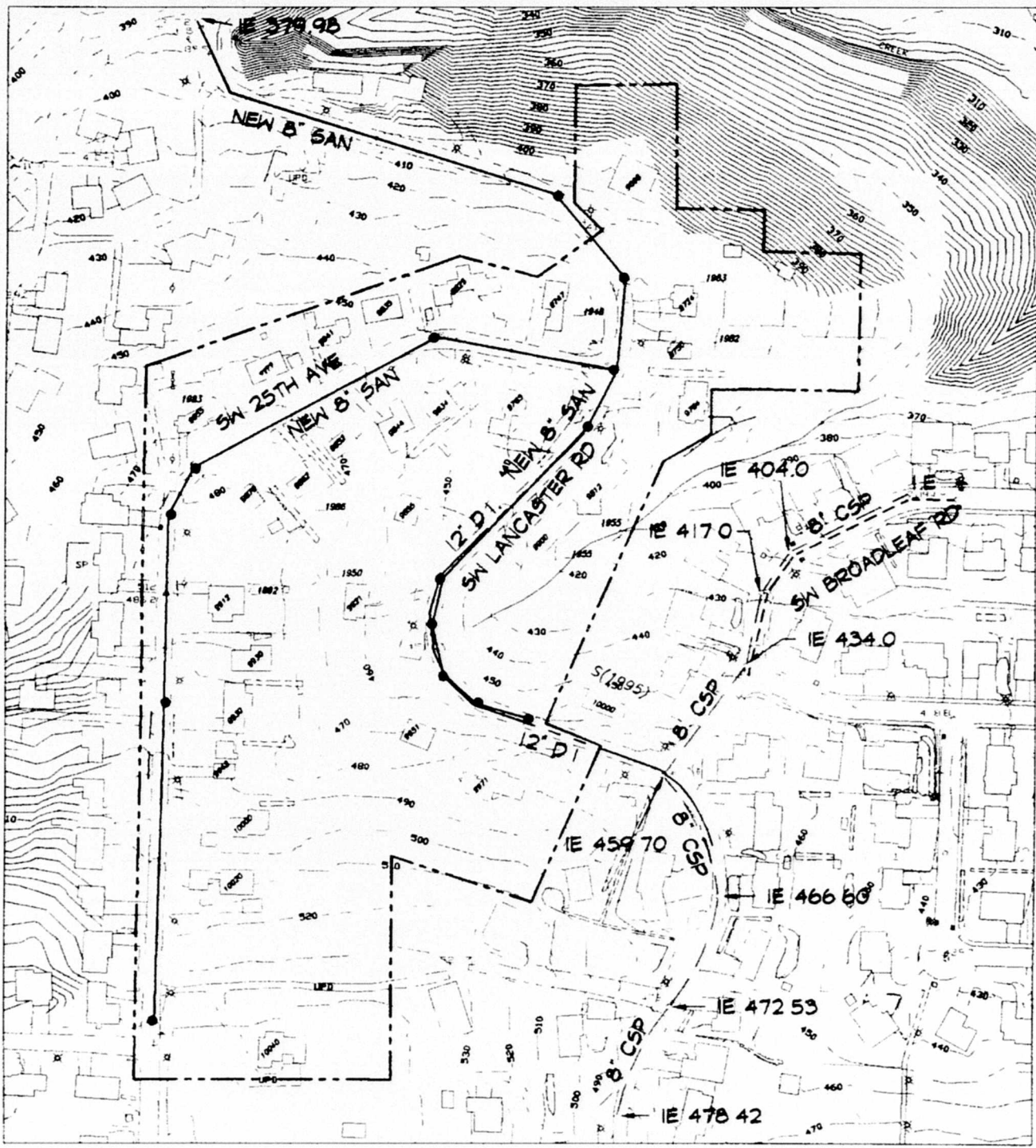


NEIGHBORHOOD  
QUARTER SECTION  
LOCATION.  
CONTRIBUTES TO CS0?

MARSHALL PARK  
3926, 4027  
S W LANCASTER RD  
25th AVE AND SOUTH  
NO

AREA NO.114





**LEGEND**

- NEW SANITARY LINE
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING WATER LINE
- BOUNDARY LINE
- FENCE LINE
- LOT LINES
- EXISTING MANHOLE
- NEW MANHOLE

B - BASEMENT  
S - SEWER CONNECTED



SCALE 1"=200'  
AREA 114

**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

---

AREA NO 114

NEIGHBORHOOD Marshall Park

LOCATION SW Lancaster Rd near  
SW 25th Avenue

QUARTER SECTION 3926 & 4027

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**Project Description:**

This project will provide sanitary sewer service to 30 homes in the project area. The line will begin with a connection to the existing sewer system on SW 25th Avenue and will extend 1520 feet south on SW 25th Avenue. At the intersection of SW 25th Avenue and SW Lancaster the system will branch west on SW Lancaster for a distance of 1430 feet to its terminus. Completion of this project will allow removal of 30 existing septic systems.

The following figures and tables present detailed information about this project.

**Priority Ranking:**

Review of the existing septic system conditions and the age of the existing systems place this project as the 58th priority project.

**Project Cost:**

Construction of this project will cost about \$ 338,000. This includes provision of service lines to the edge of the property of each home. In all, 30 homes will receive sewage service connections to the public system.

On average this project will cost \$ 11,651 per residence. This compares to a city-wide average of \$ 9769 per residence for all similar projects.



ITEMS OF WORK & MAT'LS	QUANTITY	UNIT PRICE	TOTAL AMOUNT
8" ASTM C-14, CL 3 CSP	3000 LF	\$ 25 00 LF	\$ 75,000 00
6" ASTM C-14, CL 3 CSP	725 LF	\$ 22 00 LF	\$ 15,950 00
6"X8" TEE, ASTM C-14, CL 3	29 EA	\$ 100 00 EA	\$ 2,900 00
48" STD PRECAST MH	15 EA	\$ 1,800 00 EA	\$ 27,000 00
48" STD PRECAST MH, OVER 8'	0 LF	\$ 200 00 LF	\$ -
8" CONNECTION TO EXISTING MH	1 EA	\$ 600 00 EA	\$ 600 00
8" CONNECTION TO EXISTING PIPE	0 EA	\$ 400 00 EA	\$ -
COMMON TRENCH EXC & NATIVE BACKFILL	3137 CY	\$ 15 00 CY	\$ 47,048 61
CSP PIPE BEDDING CLASS "C"	941 CY	\$ 25 00 CY	\$ 23,524 31
IMP GRANULAR BACKFILL	2196 CY	\$ 10 00 CY	\$ 21,956 02
AC PAVEMENT REPLACEMENT 2" THICK	1201 SY	\$ 20 00 SY	\$ 24,020 00
ROCK SURFACING	167 CY	\$ 20 00 CY	\$ 3,340 00
CONCRETE CURB REPLACEMENT	0 LF	\$ 20 00 LF	\$ -
SIDEWALK REPLACEMENT	0 SF	\$ 50 00 SF	\$ -
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	0 EA	\$ 500 00 EA	\$ -
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 241,338 94</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 337,874.51</b>
EXISTING HOMES SERVED	29 EA		
VACANT LOTS SERVED	0 EA		
TOTAL SERVICES	29 EA		
TOTAL COST PER SERVICE			\$ 11,650.85

PRIORITY RATING

Sewer Extension Master Plan

Priority Criteria and Scoring

Project Area Number

114

CRITERIA	GUIDELINES	SCORE
<b>I Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many, well documented 5 = No Record	0
2 How many septic systems have been replaced? None 25 Percent 50 Percent > 50 percent No records exist	0 points 4 points 7 points 9 points 5 points	5
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 1 point	1
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 0 points	0
4 Will the project impact any environmental zones during construction?	yes 3 points no 8 points	3
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	4 points 5 points 2 points	5

\* Annual CIP review should include survey of other bureaus for area projects

35471



NEIGHBORHOOD	WEST PORTLAND PARK
QUARTER SECTION	4025, 4125
LOCATION.	S.W. 42ND AVE DICKINSON AND GALEBURN ST
CONTRIBUTES TO CSO?	NO

AREA NO. 115



**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

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AREA NO 115

NEIGHBORHOOD West Portland  
Park

LOCATION SW Dickenson between  
SW 41st and SW 42nd Ave

QUARTER SECTION 4025 & 4125

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**Project Description:**

This project will provide sanitary sewer service to 5 homes in the project area. Two line extensions will be needed to provide service to this area. One line will extend north on SW 41st Avenue beginning at an existing manhole and extending 170 feet to its terminus. The second will begin at a manhole at the intersection of SW 41st Avenue and SW Dickenson and extend west along SW Dickenson a distance of 350 feet to SW 42nd Avenue where it will turn north for a distance of 270 feet, providing service to three homes and one vacant lot along the route.

The following figures and tables present detailed information about this project.

**Priority Ranking:**

Review of the existing septic system conditions and the age of the existing systems place this project as the 65th priority project. The residences in this project area appear to have been constructed in the 1950's and some of the septic system installed at that time are still in service. Records are available for only 2 of the 5 properties in the area. No indication of septic system replacement could be found.

**Project Cost:**

Construction of this project will cost about \$ 82,700. This includes provision of service lines to the edge of the property of each home. In all, 5 homes will receive sewage service connections to the public system.

On average this project will cost \$ 15,540 per residence. This compares to a city-wide average of \$ 9769 per residence for all similar projects.





ITEMS OF WORK & MAT'LS	QUANTITY	UNIT PRICE	TOTAL AMOUNT
8" ASTM C-14, CL 3 CSP	800 LF	\$ 25 00 LF	\$ 20,000 00
6" ASTM C-14, CL 3 CSP	100 LF	\$ 22 00 LF	\$ 2,200 00
6"X8" TEE, ASTM C-14, CL 3	5 EA	\$ 100 00 EA	\$ 500 00
48" STD PRECAST MH	3 EA	\$ 1,800 00 EA	\$ 5,400 00
48" STD PRECAST MH, OVER 8'	0 LF	\$ 200 00 LF	\$ -
8" CONNECTION TO EXISTING MH	2 EA	\$ 600 00 EA	\$ 1,200 00
8" CONNECTION TO EXISTING PIPE	0 EA	\$ 400 00 EA	\$ -
COMMON TRENCH EXC & NATIVE BACKFILL	776 CY	\$ 15 00 CY	\$ 11,638 89
CSP PIPE BEDDING CLASS "C"	233 CY	\$ 25 00 CY	\$ 5,819 44
IMP GRANULAR BACKFILL	543 CY	\$ 10 00 CY	\$ 5,431 48
AC PAVEMENT REPLACEMENT 2" THICK	294 SY	\$ 20 00 SY	\$ 5,880 00
ROCK SURFACING	50 CY	\$ 20 00 CY	\$ 1,000 00
CONCRETE CURB REPLACEMENT	0 LF	\$ 20 00 LF	\$ -
SIDEWALK REPLACEMENT	0 SF	\$ 50 00 SF	\$ -
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	0 EA	\$ 500 00 EA	\$ -
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 59,069.81</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 82,697.74</b>
EXISTING HOMES SERVED	5 EA		
VACANT LOTS SERVED	0 EA		
TOTAL SERVICES	5 EA		
TOTAL COST PER SERVICE			\$ 16,539.55

PRIORITY RATING

Sewer Extension Master Plan

Priority Criteria and Scoring

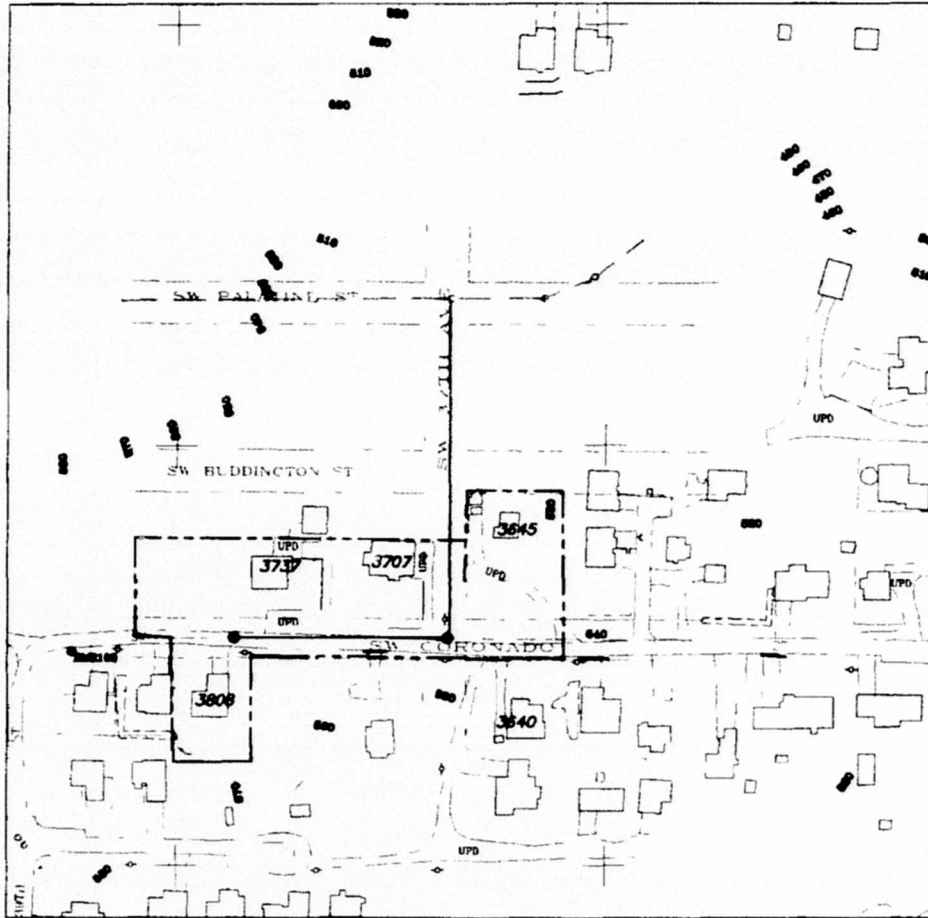
Project Area Number

115

CRITERIA	GUIDELINES	SCORE
<b>I Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many, well documented 5 = No Record	0
2 How many septic systems have been replaced? None 25 Percent 50 Percent > 50 percent No records exist	0 points 4 points 7 points 9 points 5 points	0
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	yes No <input checked="" type="checkbox"/>	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 0 point	1
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 0 points	0
4 Will the project impact any environmental zones during construction?	yes 3 points no 8 points	8
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	0 points 5 points 2 points	2

\* Annual CIP review should include survey of other bureaus for area projects

35471



NEIGHBORHOOD

ARNOLD CREEK

QUARTER SECTION

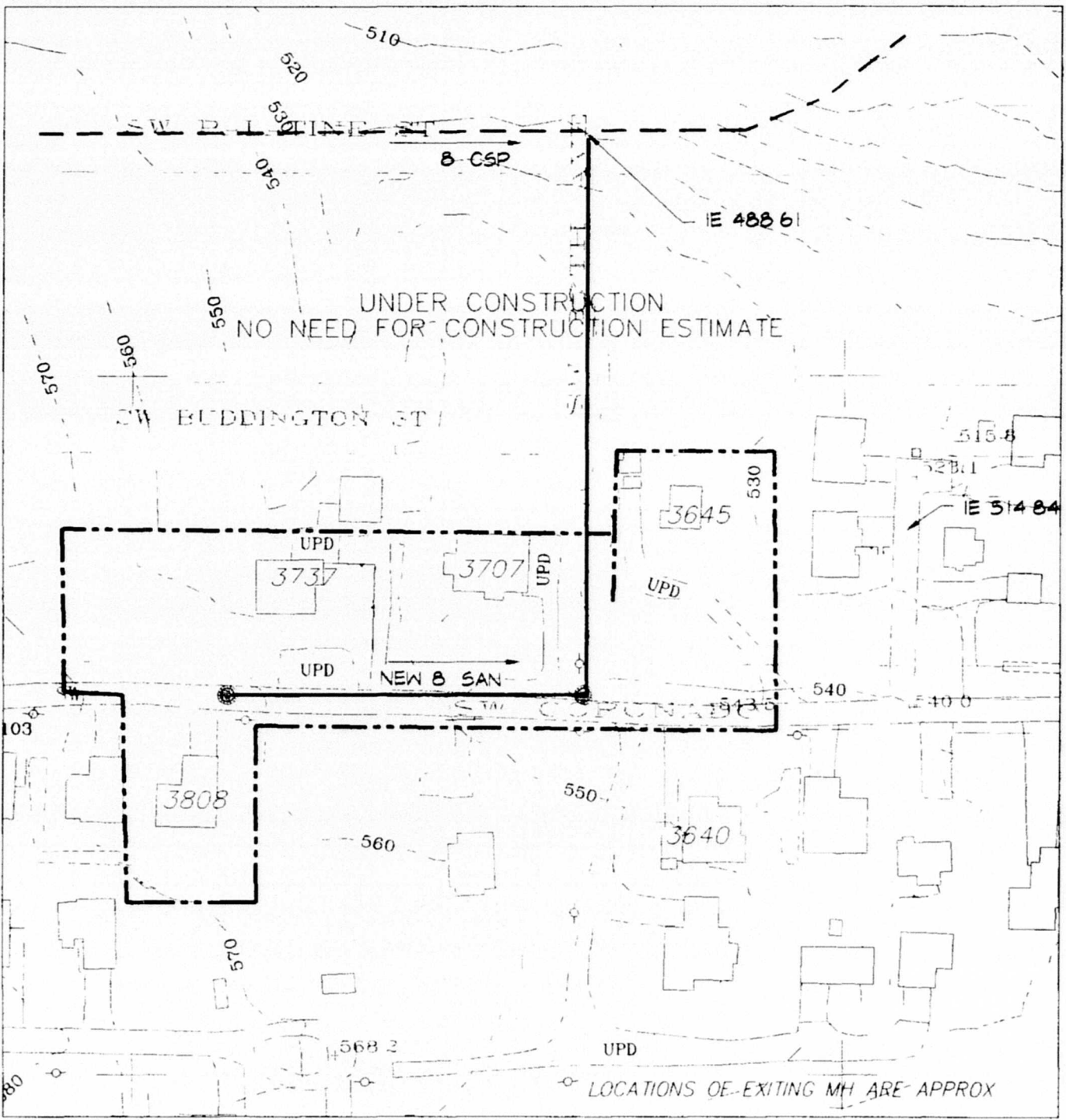
4125

LOCATION:

SW CORONADO ST  
INTERSECTION WITH 37TH AVE

CONTRIBUTES TO CSO?

NO



LEGEND

- NEW SANITARY LINE
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING WATER LINE
- BOUNDARY LINE
- FENCE LINE
- LOT LINES
- EXISTING MANHOLE
- NEW MANHOLE

B - BASEMENT  
S - SEWER CONNECTED



SCALE 1"=100'

AREA 116



**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

---

AREA NO 116

NEIGHBORHOOD Arnold Creek

LOCATION SW Coronado Avenue  
near SW 37th Avenue

QUARTER SECTION 4125

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**Project Description:**

This project will provide sanitary sewer service to 4 homes on SW Coronado Street. The line will begin with a connection to the existing sewer system at SW 36th Place and will extend 110 feet south to the intersection with SW Coronado. From there it will go west for a distance of 470 feet on SW Coronado Street to its terminus.

Recent information indicates that the city has accepted bids on construction of a sanitary sewer on SW Coronado at SW 37th Avenue. If this is correct, this project will be dropped from the list of sewer extension projects.

The following figures and tables present detailed information about this project.

**Priority Ranking:**

Review of the existing septic system conditions and the age of the existing systems place this project as the number 30 priority project. This is an area of newer homes, generally 10 years old or less.

Recent information indicates that BES has accepted bids for construction of a sanitary sewer project in this area and, if the information is correct, this project will be removed from the sewer extension program.

**Project Cost:**

Construction of this project will cost about \$ 62,500. This includes provision of service lines to the edge of the property of each home.

On average this project will cost \$ 15,633 per residence. This compares to a city-wide average of \$ 9769 per residence for all similar projects.



ITEMS OF WORK & MAT'LS	QUANTITY	UNIT PRICE	TOTAL AMOUNT
8" ASTM C-14, CL 3 CSP	650 LF	\$ 25 00 LF	\$ 16,250 00
6" ASTM C-14, CL 3 CSP	100 LF	\$ 22 00 LF	\$ 2,200 00
6"X8" TEE, ASTM C-14, CL 3	4 EA	\$ 100 00 EA	\$ 400 00
48" STD PRECAST MH	2 EA	\$ 1,800 00 EA	\$ 3,600 00
48" STD PRECAST MH, OVER 8'	0 LF	\$ 200 00 LF	\$ -
8" CONNECTION TO EXISTING MH	1 EA	\$ 600 00 EA	\$ 600 00
8" CONNECTION TO EXISTING PIPE	0 EA	\$ 400 00 EA	\$ -
COMMON TRENCH EXC & NATIVE BACKFILL	643 CY	\$ 15 00 CY	\$ 9,638 89
CSP PIPE BEDDING CLASS "C"	193 CY	\$ 25 00 CY	\$ 4,819 44
IMP GRANULAR BACKFILL	450 CY	\$ 10 00 CY	\$ 4,498 15
AC PAVEMENT REPLACEMENT 2" THICK	111 SY	\$ 20 00 SY	\$ 2,220 00
ROCK SURFACING	22 CY	\$ 20 00 CY	\$ 440 00
CONCRETE CURB REPLACEMENT	0 LF	\$ 20 00 LF	\$ -
SIDEWALK REPLACEMENT	0 SF	\$ 50 00 SF	\$ -
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	0 EA	\$ 500 00 EA	\$ -
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 44,666.48</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 62,533 07</b>
EXISTING HOMES SERVED	4 EA		
VACANT LOTS SERVED	0 EA		
TOTAL SERVICES	4 EA		
<b>TOTAL COST PER SERVICE</b>			<b>\$ 15,633.27</b>



PRIORITY RATING

Sewer Extension Master Plan

Priority Criteria and Scoring

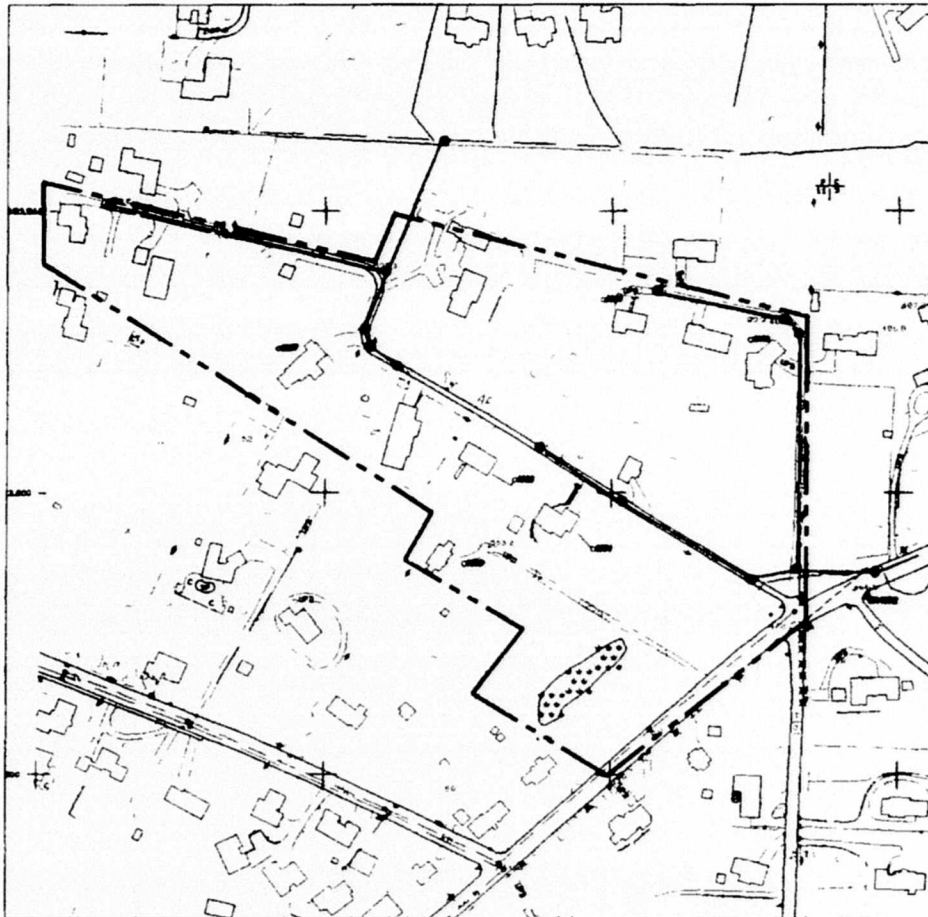
Project Area Number

116

CRITERIA	GUIDELINES	SCORE
<b>I Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many well documented 5 = No Record	5
2 How many septic systems have been replaced? None 25 Percent 50 Percent > 50 percent No records exist	0 points 4 points 7 points 9 points 5 points	5
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	Yes No <input checked="" type="checkbox"/>	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 1 point	1
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 0 points	0
4 Will the project impact any environmental zones during construction?	yes 3 points no 8 points	8
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	8 points 5 points 2 points	2

\* Annual CiP review should include survey of other bureaus for area projects

35471



NEIGHBORHOOD

QUARTER SECTION

4227

LOCATION

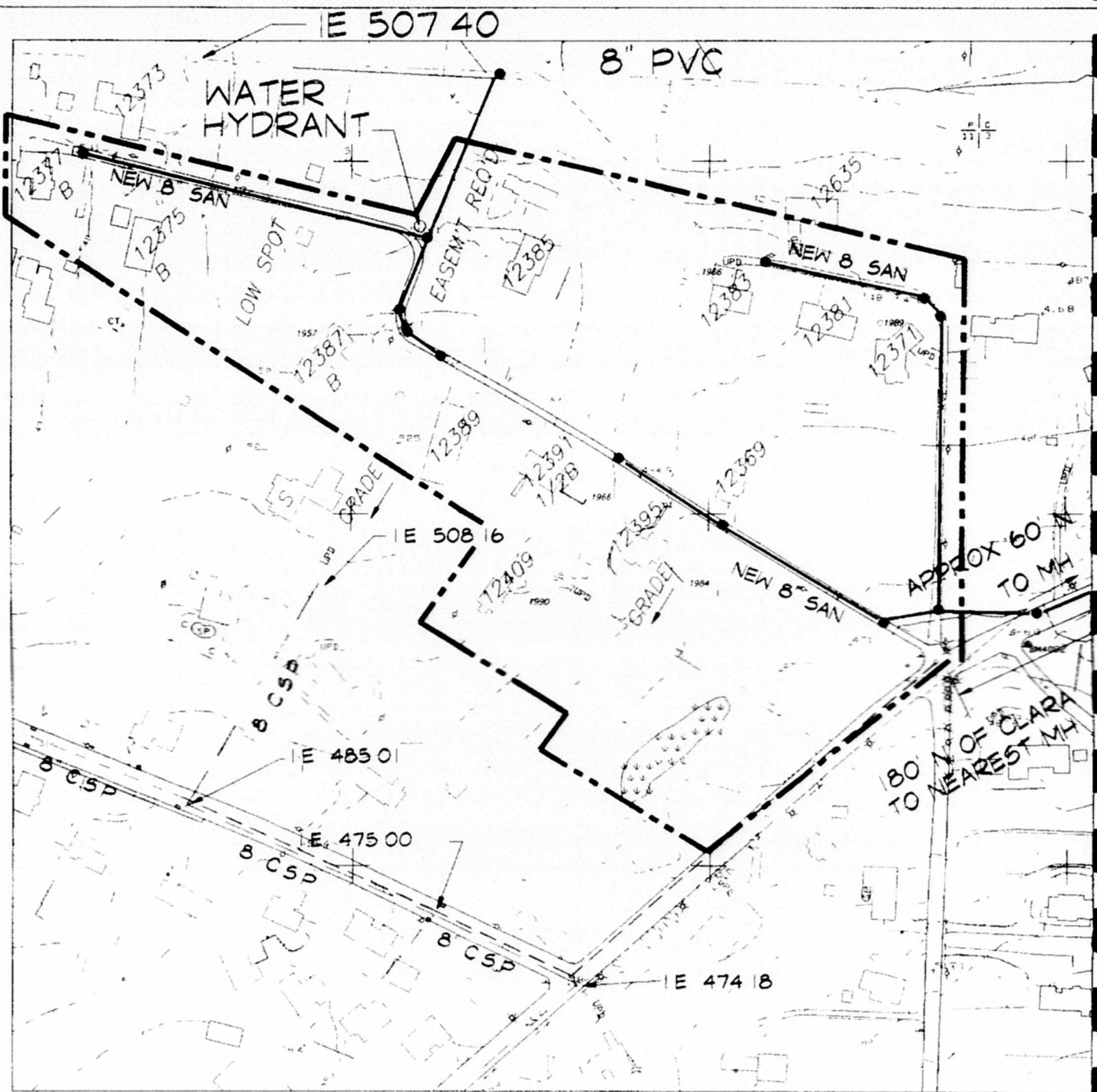
S W. CLARA LN

NORTH FROM BOONES FERRY RD

CONTRIBUTES TO CSO?

NO

AREA NO 117



**LEGEND**

- NEW SANITARY LINE
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING WATER LINE
- BOUNDARY LINE
- FENCE LINE
- LOT LINES
- EXISTING MANHOLE
- NEW MANHOLE

B - BASEMENT  
S - SEWER CONNECTED



SCALE 1"=200'

AREA 117

**BUREAU OF ENVIRONMENTAL SERVICES  
SEWER EXTENSION MASTER PLAN  
PROJECT NO. 5308**

---

AREA NO 117

NEIGHBORHOOD

LOCATION SW Clara Lane west  
of SW 19th Avenue

QUARTER SECTION 4227

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**Project Description:**

This project will provide sanitary sewer service to 10 homes west of the intersection of SW 19th Avenue and SW Boones Ferry Road, generally along SW Clara Lane. The project area is divided by an area of high ground 800 feet west of SW 19th Avenue where it slopes both east and west. The area west of the break can be served by a line extension connecting to an existing sewer north of the project area as shown on the attached map. A total of 900 feet of new sewerline will be needed to serve this westerly area. This system will provide service to 5 homes and several vacant lots.

The east end of the project area will be served by line extensions connecting to the existing sewer on SW Boones Ferry Road. From there, the line will extend south along SW Boones Ferry to SW Clara Lane. A junction manhole will allow laterals to extend west on SW Clara to serve 2 existing homes and several vacant lots. A second lateral will extend north from the manhole along SW 19th Avenue about 530 feet where it will turn west for a distance of 230 feet to its end point. Along the route, it will serve 3 homes and several vacant lots.

The following figures and tables present detailed information about this project.

**Priority Ranking:**

Review of the existing septic system conditions and the age of the existing systems place this project as the number 64 priority project. No records of septic systems for any of the homes in this area were located in the public files. In addition, no indication of septic system failure was detected in field investigations.

**Project Cost:**

Construction of this project will cost about \$ 250,000. This includes provision of service lines to the edge of the property of each property. In all, 11 homes will receive sewage service connections to the public system.

On average this project will cost \$ 15,626 per property. This compares to a city-wide average of \$ 9769 per residence for all similar projects.

**CRANE MERSETH  
ENGINEERING/SURVEYING  
UN SEWERED AREAS**

AREA	PARCEL	OWNER FIRST NAME	LAST NAME	SITE	ADDRESS	CITY	ZIP
117	R99133 0160	George & Lisa L	Kirakossian	12371	SW Boones Ferry Rd	Portland	97219
117	R99133 1440	Paul C & Ilse M	Schram	12377	SW Boones Ferry Rd	Portland	97219
117	R99133 1310	R	Chimenti	12381	SW Boones Ferry Rd	Portland	97219
117	R99133 2020	R	Chimenti	12383	SW Boones Ferry Rd	Portland	97219
117	R99133 0610	Charles S	Gauger	12409	SW Boones Ferry Rd	Portland	97219
117	R99133 1320	Robert R	Geiger	12385	SW Clara Ln	Portland	97219
117	R99133 1400	Emil J & Norma J	Bardana Jr	12389	SW Clara Ln	Portland	97219
117	R99133 0900	Thomas Y & Thelma	Nakata	12375	Clara Ln	Lake Oswego	97035
117	R99133 1980	Richard A & Evelyn M	Muir	12391	Clara Ln	Lake Oswego	97035
117	R99133 1620	Larry & Janice	Muir	12395	Clara Ln	Lake Oswego	97035

ITEMS OF WORK & MAT'LS	QUANTITY	UNIT PRICE	TOTAL AMOUNT
8" ASTM C-14, CL 3 CSP	2400 LF	\$ 25 00 LF	\$ 60,000 00
6" ASTM C-14, CL 3 CSP	240 LF	\$ 22 00 LF	\$ 5,280 00
6"X8" TEE, ASTM C-14, CL 3	16 EA	\$ 100 00 EA	\$ 1,600 00
48" STD PRECAST MH	14 EA	\$ 1,800 00 EA	\$ 25,200 00
48" STD PRECAST MH, OVER 8'	0 LF	\$ 200 00 LF	\$ -
8" CONNECTION TO EXISTING MH	2 EA	\$ 600 00 EA	\$ 1,200 00
8" CONNECTION TO EXISTING PIPE	0 EA	\$ 400 00 EA	\$ -
COMMON TRENCH EXC & NATIVE BACKFILL	2289 CY	\$ 15 00 CY	\$ 34,333 33
CSP PIPE BEDDING CLASS "C"	687 CY	\$ 25 00 CY	\$ 17,166 67
IMP GRANULAR BACKFILL	1602 CY	\$ 10 00 CY	\$ 16,022 22
AC PAVEMENT REPLACEMENT 2" THICK	746 SY	\$ 20 00 SY	\$ 14,920 00
ROCK SURFACING	143 CY	\$ 20 00 CY	\$ 2,860 00
CONCRETE CURB REPLACEMENT	0 LF	\$ 20 00 LF	\$ -
SIDEWALK REPLACEMENT	0 SF	\$ 50 00 SF	\$ -
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	0 EA	\$ 500 00 EA	\$ -
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 178,582.22</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 250,015 11</b>
EXISTING HOMES SERVED	11 EA		
VACANT LOTS SERVED	5 EA		
<b>TOTAL SERVICES</b>	<b>16 EA</b>		
<b>TOTAL COST PER SERVICE</b>			<b>\$ 15,625 94</b>

PRIORITY RATING

Sewer Extension Master Plan

Priority Criteria and Scoring

Project Area Number

117

CRITERIA	GUIDELINES	SCORE
<b>I Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many well documented 5 = No Record	0
2 How many septic systems have been replaced? None 25 Percent 50 Percent > 50 percent No records exist	0 points 4 points 7 points 9 points 5 points	0
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	Yes No <input checked="" type="checkbox"/>	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 1 point	1
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 0 points	0
4 Will the project impact any environmental zones during construction?	yes - 3 points no 8 points	8
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	8 points 5 points 2 points	2

\* Annual CIP review should include survey of other bureaus for area projects

35471

AREA NUMBER 118 NOT USED

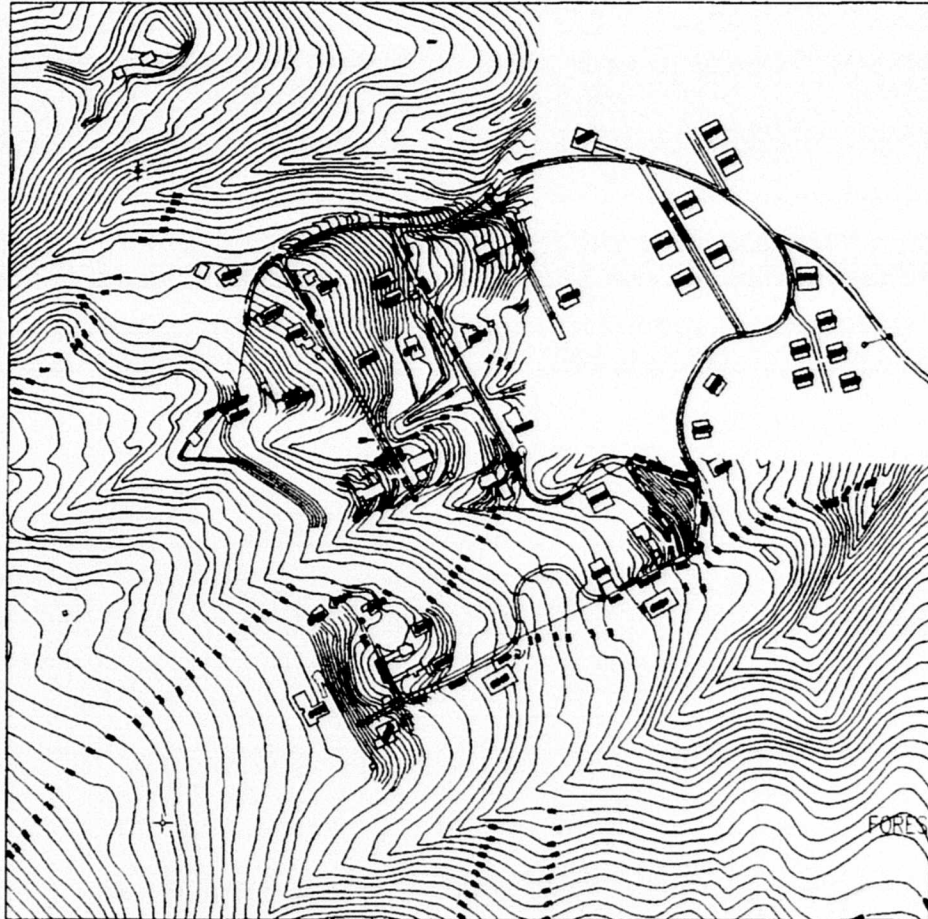


35471

AREA NUMBER 119 NOT USED

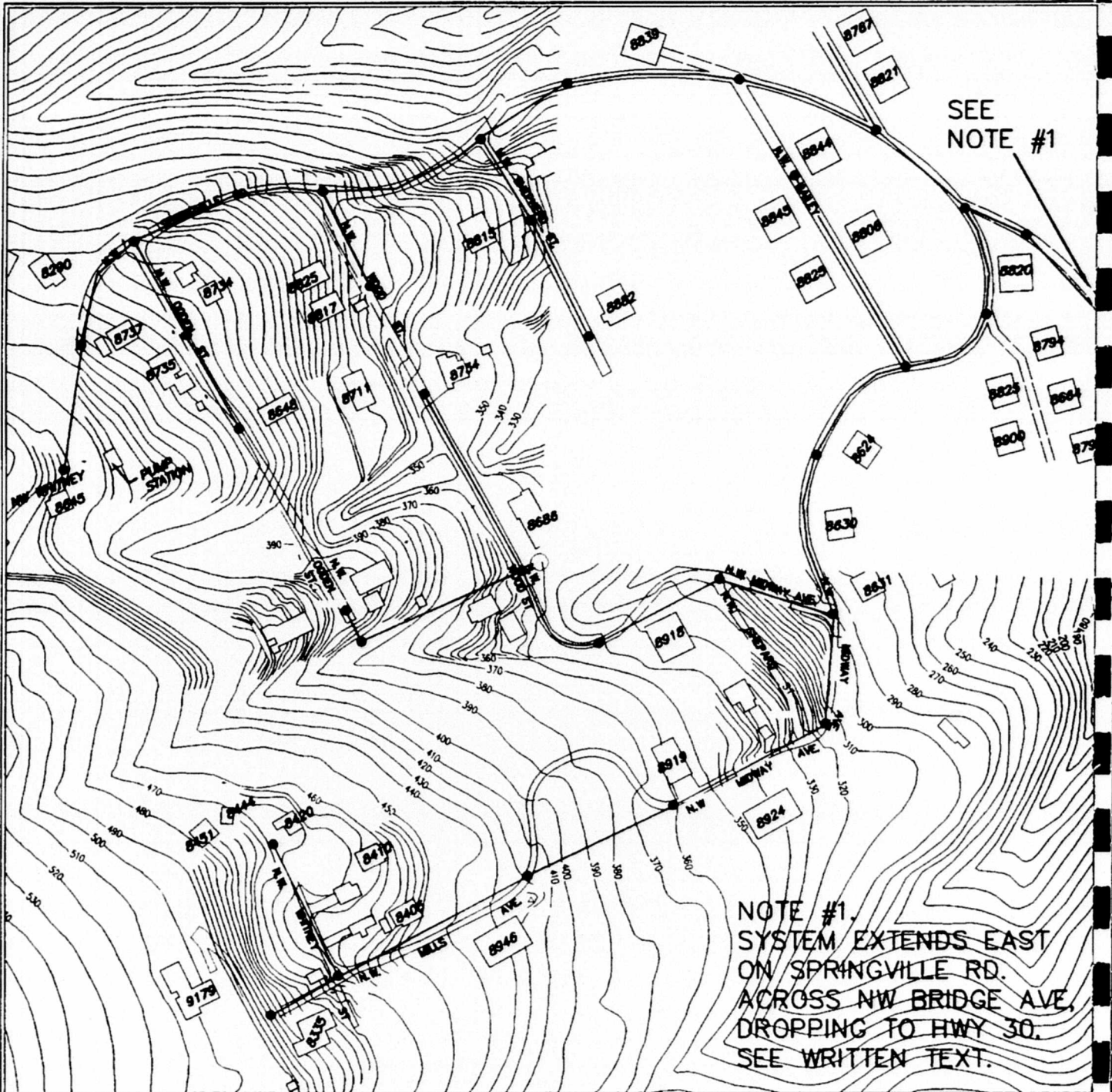
AREAS 120-143

35471



NEIGHBORHOOD LINNTON  
QUARTER SECTION 2119,2120,2219,2220  
LOCATION: WHITFORD COURT  
NW SPRINGVILLE/HARRIS  
CONTRIBUTES TO CS0?  
CONSTRUCTION COST:  
PRIORITY

AREA NO.120



**LEGEND**

- NEW SANITARY LINE
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING WATER LINE
- BOUNDARY LINE
- FENCE LINE
- LOT LINES
- EXISTING MANHOLE
- NEW MANHOLE

B - BASEMENT  
S - SEWER CONNECTED



SCALE: 1" = 200'  
AREA 120

**BUREAU OF ENVIRONMENTAL SERVICES  
UNSEWERED RESIDENTIAL AREAS  
PROJECT NO. 5308**

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AREA NO. 120

NEIGHBORHOOD Forest Park

LOCATION NW Springville Road  
NW Midway Avenue west  
of US Hwy 30

QUARTER SECTION

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**Project Description:**

This project will provide sanitary sewer service to 6 homes and several vacant lots along NW Springville Road and adjacent streets in the Forest Park Area. There are about 42 homes and a number of vacant lots that will receive service from this system. Local laterals will be provided on NW Midway Avenue, NW Bailey, NW Shepherd, NW Wood, NW Ogden and NW Whitney.

Because the area to be served is located on very steep terrain and served by narrow, winding roads, it is recommended that a shallow, small diameter gravity sewer be provided supplemented by septic tanks which discharge septic tank effluent into the gravity system. In order to provide an affordable system, gravity sewers should follow the roadway in most locations and be designed with curves between many of the manholes.

A pump station will be constructed on US Highway 30 and will pump the collected septic tank effluent to the public sewer south of the St. Johns Bridge, a distance of about 1000 feet.

The following figures and tables present detailed information about this project.

**Priority Ranking:**

No records of septic system installation were available for this area. Homes appear to range in age from 50 years to newly-constructed homes. No evidence of septic system failure was noted during the field investigation. Because of the rural nature of the area, natural resources may be disrupted by sewer construction, however the disruption should be limited to the construction period.

Construction will be difficult due to the limited access for both the local residents and the contractor. Small equipment must be used during construction to avoid damaging the trees, paved streets and to limit disruption to area. This project is number 49 on the priority list.

**Project Cost:**

Construction of this project will cost about \$ 801,260 This includes provision of service lines to the edge of the property of each home In all, 44 homes will receive sewage service connections to the public system

On average this project will cost \$ 18,210 per residence This compares to a city-wide average of \$ 9769 per residence for all similar projects

CRANE & MERSETH ENGINEERING/SURVEY  
UN SEWERED AREAS  
7/28/95

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AREA	PARCEL	OWNER FIRST NAME	LAST NAME	SITE	ADDRESS	CITY	ZIP
120	R90720 0890	John T & Joanne E	Illias	8631	NW Bailey St	Portland	97231
120	R90720 0920	John T & Joanne E	Illias	8631	NW Bailey St	Portland	97231
120	R90720 1010	RENON FLORENTINO & ANN E		8555	NW Midway St	Portland	97231
120	R90720 3180	John & Susan	Cleaveland	8830	NW Mills St	Portland	97231
120	R90720 1240	Wayne H & Pamela A	Estvold	8919	NW Mills St	Portland	97231
120	R90720 2640	Randy & Rothstein Lilijoy	Arnold	8946	NW Mills St	Portland	97231
120	R90720 6020	Daniel	Sisco	9179	NW Mills St	Portland	97231
120	R90720 6120	Daniel	Sisco	9179	NW Mills St	Portland	97231
120	R90720 1090	Frank & June J	Wood	8517	NW Shepherd St	Portland	97231
120	R90720 0250	Aaron	Pollock	8664	NW Springville C	Portland	97231
120	R90720 0200	Willard L & Geraldine F	McMickle	8790	NW Springville C	Portland	97231
120	R90720 0210	Stephen James & Karen Ann	Packer	8794	NW Springville C	Portland	97231
120	R90720 0230	Thomas N	Tucker	8812	NW Springville C	Portland	97231
120	R90720 0240	Sandra	Ajami	8820	NW Springville C	Portland	97231
120	R90720 0550	Jeffrey K & Julie L	Winslow	8825	NW Springville C	Portland	97231
120	R90720 0570	Sandra A	Ajami	8900	NW Springville C	Portland	97231
120	R90720 0030	Marian B	Blackford	8767	NW Springville R	Portland	97231
120	R90720 0040	Marion	Blackford	8821	NW Springville R	Portland	97231
120	R90720 0090	Marian B	Jarvis-Blackfor	8839	NW Springville R	Portland	97231
120	R90720 0100	Marian B	Blackford	8939	NW Springville R	Portland	97231
120	R90720 3480	PORTLAND CITY OF		9261	NW Springville R	Portland	97231
120	R90720 3550	Ralph	Arrison	9290	NW Springville R	Portland	97231
120	R90720 6460	George A	Buford	9510	NW Springville R	Portland	97229
120	R96115 0550	Norman B & Billie L	Burger	10820	NW Springville R	Portland	97229
120	R96115 0130	Ivanka	Beovich	11525	NW Springville R	Portland	97229
120	R96115 0120	Rolf S & Mary L	Vatne	12321	NW Springville R	Portland	97229
120	R96115 0380	Walter R & Vicky J	Burger Jr	12421	NW Springville R	Portland	97229
120	R96115 0280	Paul Tr & Leona M	Homiltas	12447	NW Springville R	Portland	97229
120	R38800 3910	John J	Rystadt	12449	NW Springville R	Portland	97229
120	R96115 0300	John J	Rystadt	12449	NW Springville R	Portland	97229
120	R96116 0630	Walter & Winifred	Burger	12521	NW Springville R	Portland	97229
120	R96116 0880	Gaza Tr & Viola	Burger	12535	NW Springville R	Portland	97229
120	R96116 0130	Gaza Tr & Viola	Burger	12535	NW Springville R	Portland	97229
120	R96116 0830	Eldon J & Ardis R	Burger	12535	NW Springville R	Portland	97229
120	R96116 0220	HENDREN FLOYD		12751	NW Springville R	Portland	97229
120	R96116 0610	HENDREN FLOYD G & MARY A		12751	NW Springville R	Portland	97229
120	R96116 0320	Alfred C & Alverna F	Bothum	12800	NW Springville R	Portland	97229
120	R96116 0240	Agnes	Hendren	12821	NW Springville R	Portland	97229
120	R96116 0810	Amy Kathleen	Segel	12839	NW Springville R	Portland	97229
120	R96116 0310	Ezra & Farhat	Azhar	12900	NW Springville R	Portland	97229
120	P20014 6066	FLING DAVID BRADLEY		12931	NW Springville R	Portland	97229
120	R96116 0230	FLING DAVID B & SUSAN A		12931	NW Springville R	Portland	97229
120	R96116 0700	Herbert S & Olive A	Plep	13011	NW Springville R	Portland	97229
120	R96116 0280	Andrew P	Malnowski	13130	NW Springville R	Portland	97229
120	R15150 0300	Michael D & Dianna L	Cave	13145	NW Springville R	Portland	97229
120	R96116 0650	Martha	Hyde	13150	NW Springville R	Portland	97229
120	R96116 0580	Jay Thomas & Stephanie Ray	Butz	13303	NW Springville R	Portland	97229
120	R96116 0790	Margaret	Kouva	13410	NW Springville R	Portland	97229

CRANE & MERSETH ENGINEERING/SURVEY  
 UN SEWERED AREAS  
 7/28/95

AREA	PARCEL	OWNER FIRST NAME	LAST NAME	SITE	ADDRESS	CITY	ZIP
120	R96116 0480	John M & Mary E	Telford	13508	NW Springville R	Portland	97229
120	R96116 0370	Edmund F & Virginia J	Vilhauer	13539	NW Springville R	Portland	97229
120	R96116 0450	Winifred L Tr & Ralph V	Miller	13560	NW Springville R	Portland	97229
120	R96116 0550	Sang Bae & Young Cha	Kim	13630	NW Springville R	Portland	97229
120	R96116 0360	David A & Marjorie A	Kolander	13641	NW Springville R	Portland	97229
120	R96116 0440	Norman E & Anne	Keseric	13720	NW Springville R	Portland	97229
120	R96116 0420	Richard A & Miriam	Pilcher	13722	NW Springville R	Portland	97229
120	R96116 0350	William H	Luchs	13751	NW Springville R	Portland	97229
120	R96116 0560	Oscar L & Arleen E	Arp	13800	NW Springville R	Portland	97229
120	R96116 0390	David D & Judy A	Leppia	13839	NW Springville R	Portland	97229
120	R96116 0540	Ronald E & Stephanie G	Dennis	13900	NW Springville R	Portland	97229
120	R96116 0860	Steven L & Kathy J	Dean	13912	NW Springville R	Portland	97229
120	R96116 0680	Robert L & Gayla G	Zahler	13937	NW Springville R	Portland	97229
120	R96116 0050	Robert L & Robert L	Zahler	14111	NW Springville R	Portland	97229
120	R96116 0070	Michael M	Jenkins	14120	NW Springville R	Portland	97229
120	R96116 0060	C A & Janet	Christensen	14344	NW Springville R	Portland	97229
120	R96116 0040	Ray G & Dortha C	Marty	14415	NW Springville R	Portland	97229
120	R96116 0670	John F	Burnham	14415	NW Springville R	Portland	97229
120	R96116 0840	Leona L	Burnham	14417	NW Springville R	Portland	97229
120	R96116 0720	John F & Janet A	Burnham	14419	NW Springville R	Portland	97229
120	R96116 0020	John Tr & Evelyn	Hahn	14421	NW Springville R	Portland	97229
120	R96116 0260	Richard C	Hahn	14431	NW Springville R	Portland	97229
120	P20016 4698	Richard	Pilcher	16100	NW Springville R	Portland	97229
120	R90720 2220	PORTLAND CITY OF			NW Whitney & S	Portland	
120	R90720 1910	Ilse	Hildman	8420	NW Whitney Ave	Portland	97231
120	R90720 2030	Jack E & Yaeko	Steidel	8444	NW Whitney Ave	Portland	97231
120	R90720 6000	Lisa D	Wilson	8451	NW Whitney Ave	Portland	97231
120	R90720 1760	Arlene N	Barclay	8617	NW Wood Ave	Portland	97231
120	R90720 1190	James L & Kathryn L	Dornfeld	8686	NW Wood Ave	Portland	97231
120	R90720 1500	Bruce C	Carey	8711	NW Wood Ave	Portland	97231
120	R90720 1430	David L	Medford	8734	NW Wood Ave	Portland	97231
120	R90720 1520	John P	Burton	8817	NW Wood Ave	Portland	97231
120	R90720 1530	John P	Burton	8817	NW Wood Ave	Portland	97231
120	R90720 1620	Charles	Hall	8817	NW Wood Ave	Portland	97231
120	R90720 1540	Henry V & Marie L	Ade	8825	NW Wood Ave	Portland	97231
120	R96116 0610	HENDREN FLOYD G & MARY A		12751	NW Springville R	Portland	97229
120	R96116 0320	Alfred C & Alverna F	Bothum	12800	NW Springville R	Portland	97229
120	R96116 0240	Agnes	Hendren	12821	NW Springville R	Portland	97229
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120	R96116 0650	Martha	Hyde	13150	NW Springville R	Portland	97229
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120	R96116 0790	Margaret	Kouva	13410	NW Springville R	Portland	97229



AREA 120

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ITEMS OF WORK & MAT'LS	QUANTITY	UNIT PRICE	TOTAL AMOUNT
8" ASTM C-14, CL 3 CSP	7900 LF	\$ 25 00 LF	\$ 197,500 00
6" ASTM C-14, CL 3 CSP	660 LF	\$ 22 00 LF	\$ 14,520 00
6"X8" TEE, ASTM C-14, CL 3	44 EA	\$ 100 00 EA	\$ 4,400 00
48" STD PRECAST MH	44 EA	\$ 1,800 00 EA	\$ 79,200 00
48" STD PRECAST MH, OVER 8'	0 LF	\$ 200 00 LF	\$ -
8" CONNECTION TO EXISTING MH	1 EA	\$ 600 00 EA	\$ 600 00
8" CONNECTION TO EXISTING PIPE	0 EA	\$ 400 00 EA	\$ -
COMMON TRENCH EXC & NATIVE BACKFILL	7450 CY	\$ 15 00 CY	\$ 111,750 00
CSP PIPE BEDDING CLASS "C"	2235 CY	\$ 25 00 CY	\$ 55,875 00
IMP GRANULAR BACKFILL	5215 CY	\$ 10 00 CY	\$ 52,150 00
AC PAVEMENT REPLACEMENT 2" THICK	2817 SY	\$ 20 00 SY	\$ 56,333 33
ROCK SURFACING	0 CY	\$ 20 00 CY	\$ -
CONCRETE CURB REPLACEMENT	0 LF	\$ 20 00 LF	\$ -
SIDEWALK REPLACEMENT	0 SF	\$ 50 00 SF	\$ -
SUMP REPLACEMENT	0 EA	\$ 10,000 00 EA	\$ -
RECONSTRUCT EXIST INLET	0 EA	\$ 500 00 EA	\$ -
<b>TOTAL CONSTRUCTION COST</b>			<b>\$ 572,328.33</b>
<b>TOTAL PROJECT COST</b>			<b>\$ 801,259.67</b>
EXISTING HOMES SERVED	44 EA		
VACANT LOTS SERVED	0 EA		
TOTAL SERVICES	44 EA		
TOTAL COST PER SERVICE			<b>\$ 18,210.45</b>

COST ESTIMATES

PRIORITY RATING

Sewer Extension Master Plan

Priority Criteria and Scoring

Project Area Number

**120**

CRITERIA	GUIDELINES	SCORE
<b>I Public Health</b>		
1 Does the area have any record of septic system failure or public health problems?	0 = None 10 = Many, well documented 5 = No Record	<b>5</b>
2 How many septic systems have been replaced? None 25 Percent 50 Percent > 50 percent No records exist	0 points 4 points 7 points 9 points 5 points	<b>4</b>
<b>II Implementation</b>		
1 Is the project in a CSO impact area?	Yes      No <b>X</b>	
2 If yes, will the CSO project occur Before year 2000? Year 2000 - 2010? After 2010? Not in a CSO project area	9 points 5 points 2 points 1 point	<b>1</b>
3 Are there any other city projects planned in the same area * within 3 years? 5 years? 10 years? None planned	8 points 6 points 3 points 0 points	<b>0</b>
4 Will the project impact any environmental zones during construction?	yes - 3 points no - 8 points	<b>3</b>
<b>III Project Costs</b>		
1 Is the average cost per residence < 80 % of city average? > 80 % < 120 % of city average > 120 % of city average	8 points 5 points 2 points	<b>2</b>

\* Annual CIP review should include survey of other bureaus for area projects

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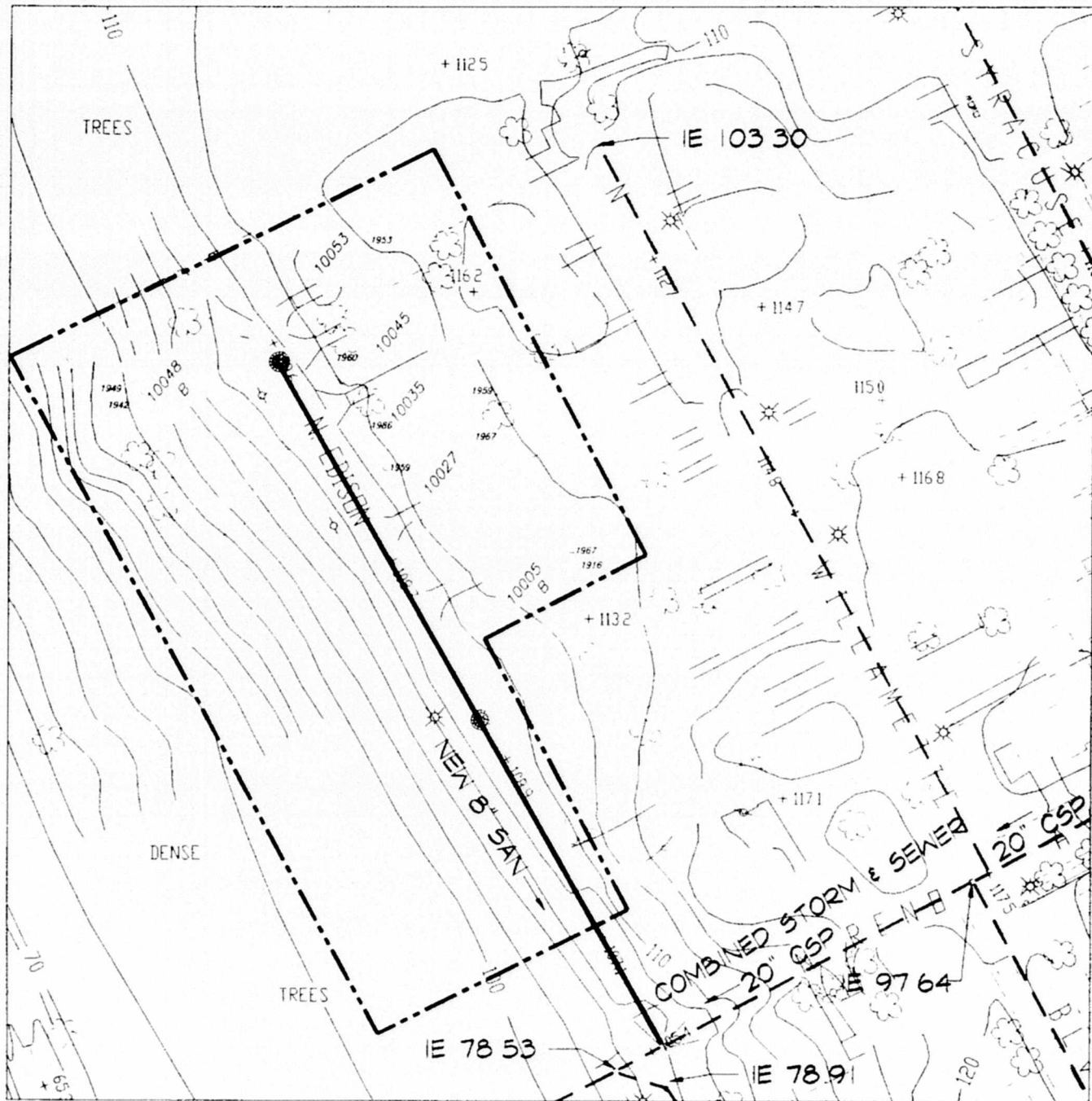
NEIGHBORHOOD  
QUARTER SECTION  
LOCATION:

CATHEDRAL PARK  
2020  
N EDISON AVE  
WEST OF RENO

CONTRIBUTES TO CSO?

NO

AREA NO 121



**LEGEND**

- NEW SANITARY LINE
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING WATER LINE
- BOUNDARY LINE
- FENCE LINE
- LOT LINES
- EXISTING MANHOLE ●
- NEW MANHOLE ●

B - BASEMENT  
S - SEWER CONNECTED



SCALE 1"=100'  
AREA 121