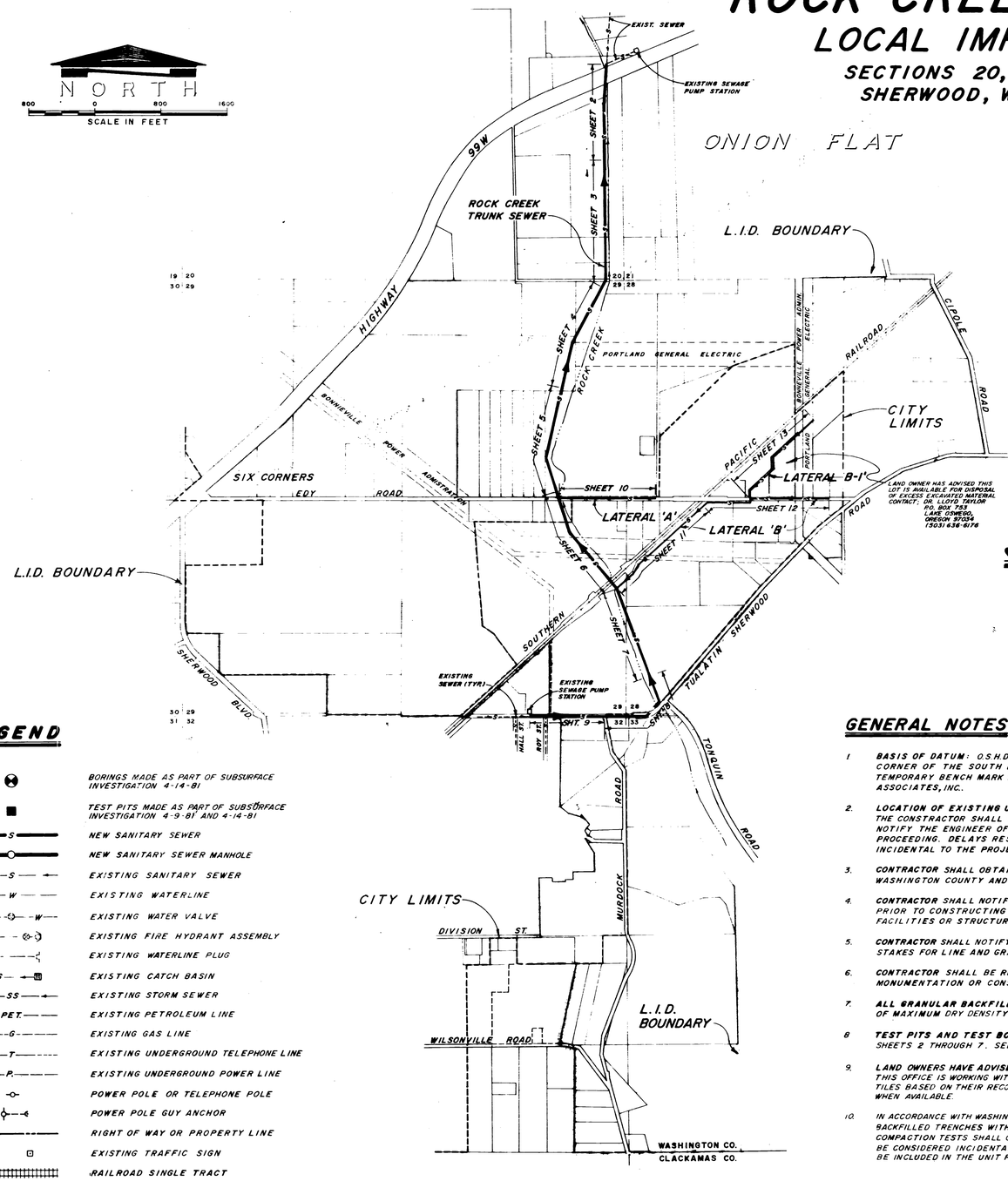
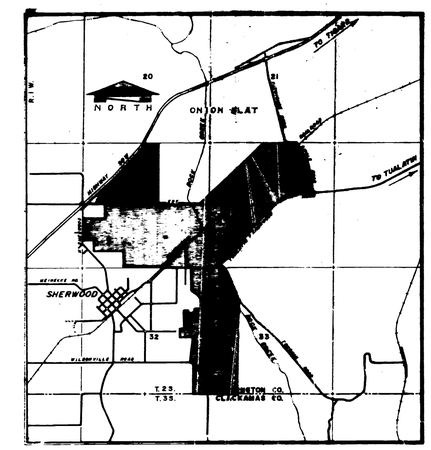
ROCK CREEK WATER & SEWER

LOCAL IMPROVEMENT DISTRICT

SECTIONS 20, 28, 29, 32 & 33, T. 2S, R. 1W., W.M.
SHERWOOD, WASHINGTON COUNTY, OREGON



SITE PLAN



VICINITY MAP

SCALE IN FEET

SANITARY SEWER IMPROVEMENTS

LEGEND

- BORINGS MADE AS PART OF SUBSURFACE INVESTIGATION 4-14-81
- TEST PITS MADE AS PART OF SUBSURFACE INVESTIGATION 4-9-81 AND 4-14-81
- NEW SANITARY SEWER
- NEW SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER
- EXISTING WATERLINE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT ASSEMBLY
- EXISTING WATERLINE PLUG
- EXISTING CATCH BASIN
- EXISTING STORM SEWER
- EXISTING PETROLEUM LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING UNDERGROUND POWER LINE
- POWER POLE OR TELEPHONE POLE
- POWER POLE GUY ANCHOR
- RIGHT OF WAY OR PROPERTY LINE
- EXISTING TRAFFIC SIGN
- RAILROAD SINGLE TRACT
- EXISTING DITCH OR CREEK
- EXISTING GRAVEL AREA
- EXISTING PAVEMENT AREA
- EXISTING OVERHEAD POWER OR TRANSMISSION LINES

GENERAL NOTES

1. **BASIS OF DATUM:** O.S.H.D. BENCH MARK; ELEV. = 132.90, BRASS CAP IN WALK AT THE N.W. CORNER OF THE SOUTH BOUND BRIDGE OF HWY. 99W AT ROCK CREEK. TEMPORARY BENCH MARK INFORMATION IS AVAILABLE UPON REQUEST FROM GARY M. BUFORD & ASSOCIATES, INC..
2. **LOCATION OF EXISTING UTILITIES** ARE BASED ON AVAILABLE RECORDS. PRIOR TO CONSTRUCTION, THE CONSTRACTOR SHALL VERIFY THE LOCATIONS OF ALL CONFLICTING UTILITIES AND SHALL NOTIFY THE ENGINEER OF CONDITIONS WHICH DIFFER FROM THOSE SHOWN ON THE PLANS PRIOR TO PROCEEDING. DELAYS RESULTING FROM CONFLICTS WITH EXISTING UTILITIES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL PAYMENT SHALL BE MADE.
3. **CONTRACTOR** SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES FROM THE CITY OF SHERWOOD, WASHINGTON COUNTY AND THE STATE OF OREGON PRIOR TO CONSTRUCTION.
4. **CONTRACTOR** SHALL NOTIFY ALL UTILITY COMPANIES FORTYEIGHT (48) HOURS IN ADVANCE PRIOR TO CONSTRUCTING ACROSS OR WITHIN FIVE FEET OF THEIR UNDERGROUND OR ABOVEGROUND FACILITIES OR STRUCTURES.
5. **CONTRACTOR** SHALL NOTIFY THE ENGINEER THREE (3) DAYS IN ADVANCE TO PROVIDE CONSTRUCTION STAKES FOR LINE AND GRADE.
6. **CONTRACTOR** SHALL BE RESPONSIBLE FOR RESTORATION OF ALL DAMAGED OR DESTROYED SURVEY MONUMENTATION OR CONSTRUCTION STAKES CAUSED BY HIS ACTIVITIES.
7. **ALL GRANULAR BACKFILL IN TRENCHES** TO BE COMPACTED TO OBTAIN NINETY-FIVE PERCENT (95%) OF MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. D 698.
8. **TEST PITS AND TEST BORINGS** MADE AS PART OF THE SUBSURFACE INVESTIGATION ARE SHOWN ON SHEETS 2 THROUGH 7. SEE SUBSURFACE INVESTIGATION ATTACHED TO CONTRACT DOCUMENTS.
9. **LAND OWNERS HAVE ADVISED OF EXISTING DRAIN TILES CROSSING TRUNK SEWER** IN ONION FLAT AREA. THIS OFFICE IS WORKING WITH LAND OWNERS TO DETERMINE APPROXIMATE LOCATIONS AND DEPTHS OF DRAIN TILES BASED ON THEIR RECORDS AND RECOLLECTIONS. THIS INFORMATION WILL BE PROVIDED TO THE CONTRACTOR WHEN AVAILABLE.
10. IN ACCORDANCE WITH WASHINGTON COUNTY REGULATIONS, COMPACTION TESTS SHALL BE PERFORMED ON ALL BACKFILLED TRENCHES WITHIN COUNTY ROAD RIGHT-OF-WAY AT INTERVALS NOT EXCEEDING 100 FEET. COMPACTION TESTS SHALL CONFORM TO WASHINGTON COUNTY REQUIREMENTS. COMPACTION TESTS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OF SANITARY SEWER PIPE AND THE EXPENSE SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAL FOOT.

SHEET INDEX

	SHEET
ROCK CREEK TRUNK SEWER	2 THRU 9
LATERAL 'A'	10
LATERAL 'B'	11 & 12
LATERAL 'B-1'	13
HIGHWAY 99W CROSSING SCHEDULE I DIVISIONS	14
RAILROAD CROSSING	15
STANDARD DETAILS	16

SET No. ____

NO.	REVISIONS	DATE
1	AS-BUILT	11-24-88

DESIGNED	G.R.A.
DRAWN	R.L.M./D.C.B.
DATE	JULY 81
SCALE	AS SHOWN
PROJ. NO.	L 506-3

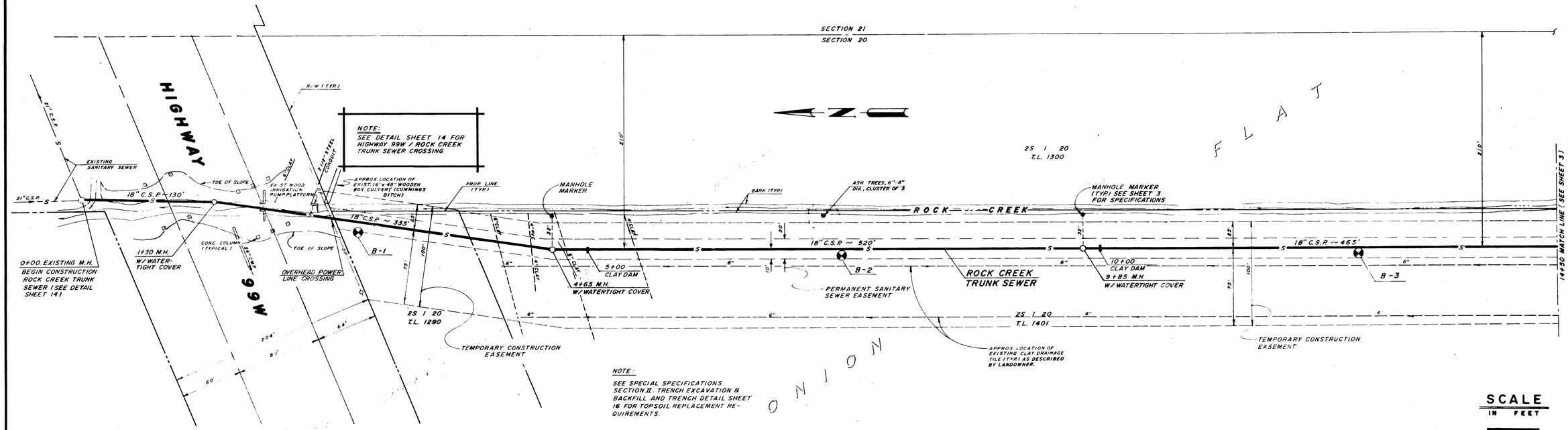
CONSULTING ENGINEERS — LAND SURVEYORS — LAND PLANNERS
GARY M. BUFORD & ASSOCIATES
P.O. BOX 1531 LAKE OSWEGO, OREGON 97034
415 N. STATE STREET (503) 635-3511

PREPARED FOR:
CITY OF SHERWOOD
90 N.W. PARK STREET
SHERWOOD, OREGON 97140 (503) 625-5522

ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

TITLE SHEET
SITE PLAN / VICINITY MAP / INDEX

SHEET 1 OF 16



PLAN-ROCK CREEK TRUNK SEWER

SCALE IN FEET
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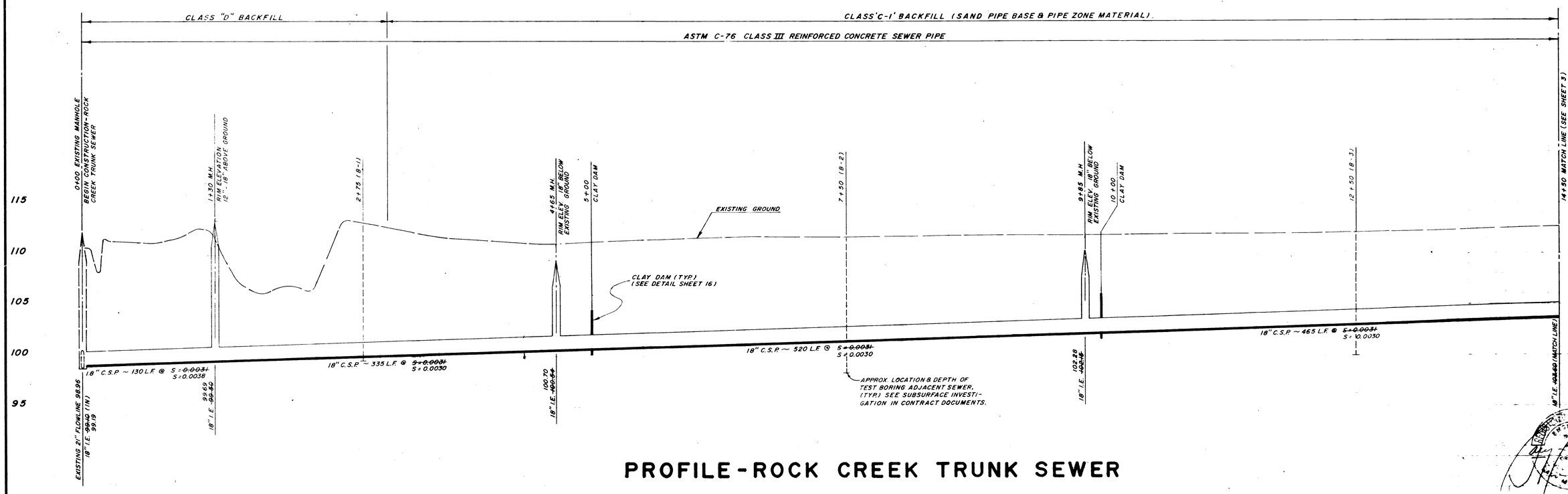
VERTICAL: 5 0 5 10



PROFILE-ROCK CREEK TRUNK SEWER

NO.	REVISIONS	DATE
2	AS-BUILT	11-24-82
1	ADDED EXIST. SUBSURFACE DRAINAGE FACILITIES	8-21-81

DESIGNED	G.R.A.
DRAWN	D.C.B.
DATE	JULY '81
SCALE	AS SHOWN
REC. NO.	L806.33

CONSULTING ENGINEERS — LAND SURVEYORS — LAND PLANNERS
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ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
SANITARY SEWER IMPROVEMENT

SHEET 2 OF 16

MANHOLE MARKERS AND SANITARY SEWER MARKERS SPECIFICATIONS

1. SIGNS AND POSTS SHALL CONFORM TO OREGON DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS, T.E.D. No. S-17.
2. POST SHALL BE SIX (6) FEET IN LENGTH AND PROTRUDE THREE (3) FEET ABOVE THE GROUND. POSTS SHALL BE PROPERLY ANCHORED IN CONCRETE.
3. SIGNS SHALL BE FABRICATED FROM SHEET ALUMINUM WITH A NOMINAL THICKNESS OF 0.063 OF AN INCH. SIGNS SHALL BE SECURELY FASTENED TO POST WITH NO LESS THAN FOUR (4) RIVETS. LETTERS SHALL BE ONE-HALF (1/2) OF AN INCH IN HEIGHT AND STENCILED ON TO THE SIGNS WITH PERMANENT WATERPROOF PAINT. CONTRACTOR SHALL SUBMIT SAMPLE SIGN TO ENGINEER FOR APPROVAL. SIGNS SHALL BE RECTANGULAR MEASURING TEN (10) INCHES IN WIDTH AND SIX (16) INCHES IN HEIGHTH AND SHALL HAVE ROUNDED CORNERS.
4. MANHOLE MARKERS SHALL READ:

MANHOLE REFERENCE
MARKER STATION __+__
UNIFIED SEWERAGE
AGENCY

STATION AS APPROPRIATE

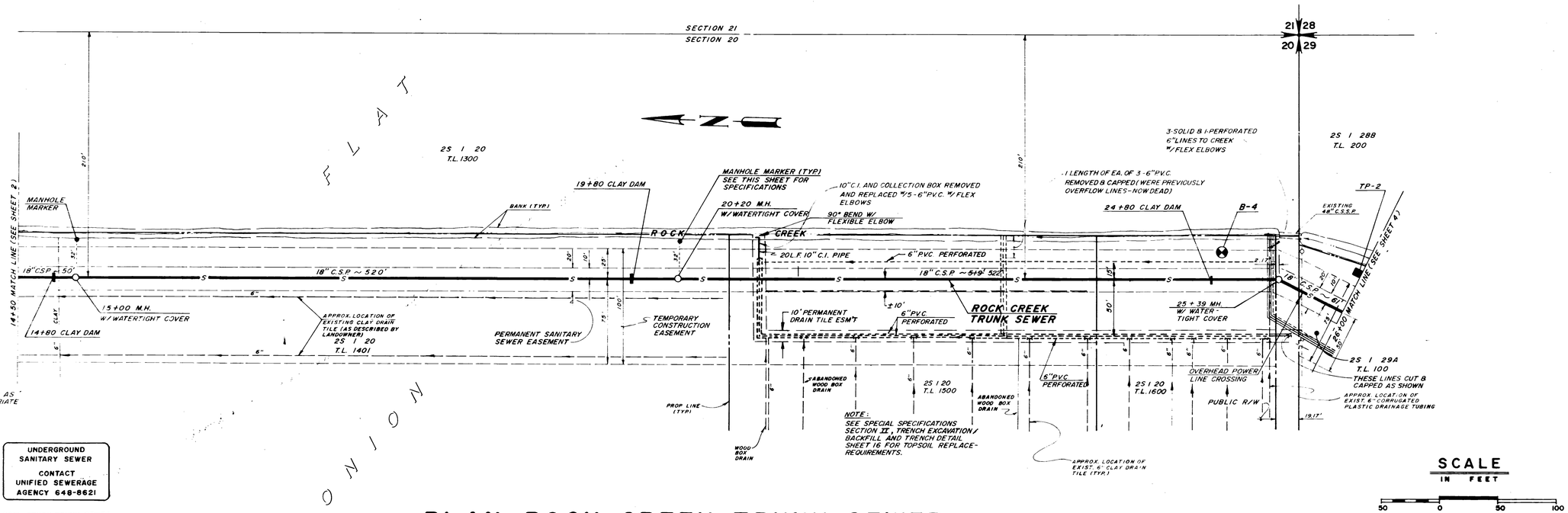
5. SANITARY SEWER MARKERS SHALL READ:

UNDERGROUND
SANITARY SEWER
CONTACT CITY OF
SHERWOOD 625-5522

LATERAL SEWERS

UNDERGROUND
SANITARY SEWER
CONTACT
UNIFIED SEWERAGE
AGENCY 648-8621

ROCK CREEK TRUNK SEWER



PLAN-ROCK CREEK TRUNK SEWER

SCALE IN FEET
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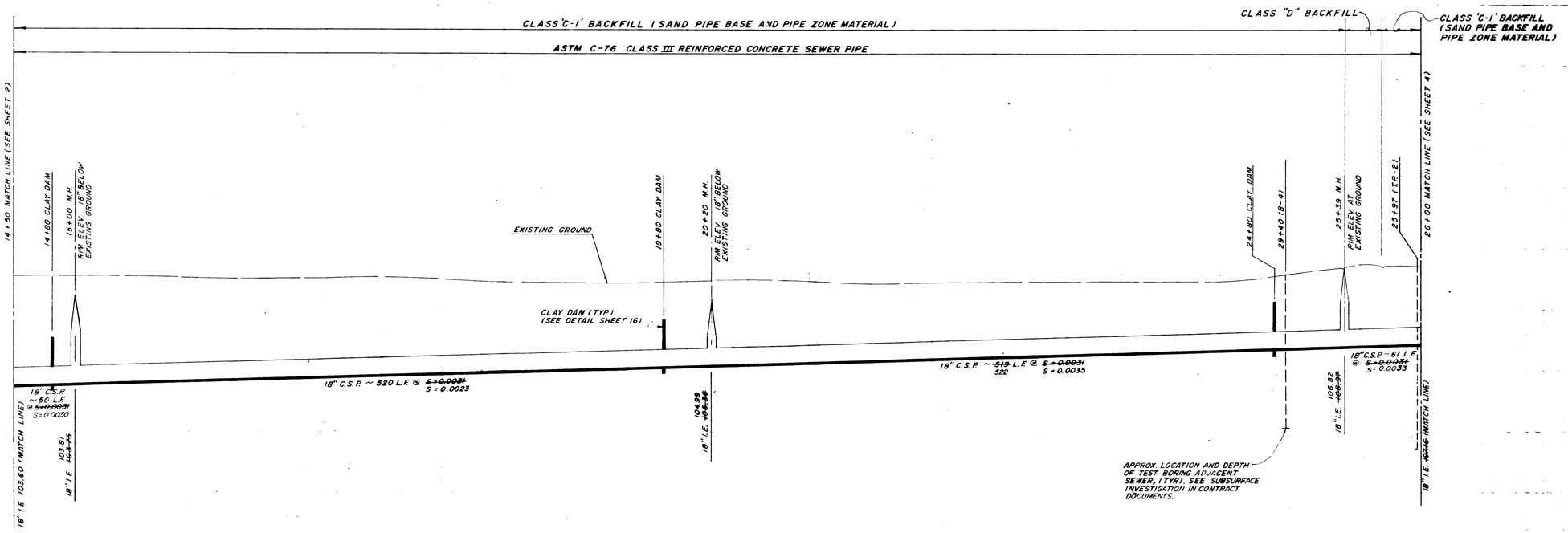
VERTICAL: 5 0 5 10



PROFILE-ROCK CREEK TRUNK SEWER

14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00

NO.	REVISIONS	DATE		
3	AS-BUILT DRAIN TILE LOCATIONS	2-6-84	DESIGNED	G.R.A.
2	AS-BUILT	11-24-82	DRAWN	D.C.B.
1	ADDED EXIST. SUBSURFACE DRAINAGE FACILITIES	8-21-81	DATE	JULY '81
			SCALE	AS SHOWN
			REC. NO.	L506.33

CONSULTING ENGINEERS ◇ LAND SURVEYORS ◇ LAND PLANNERS
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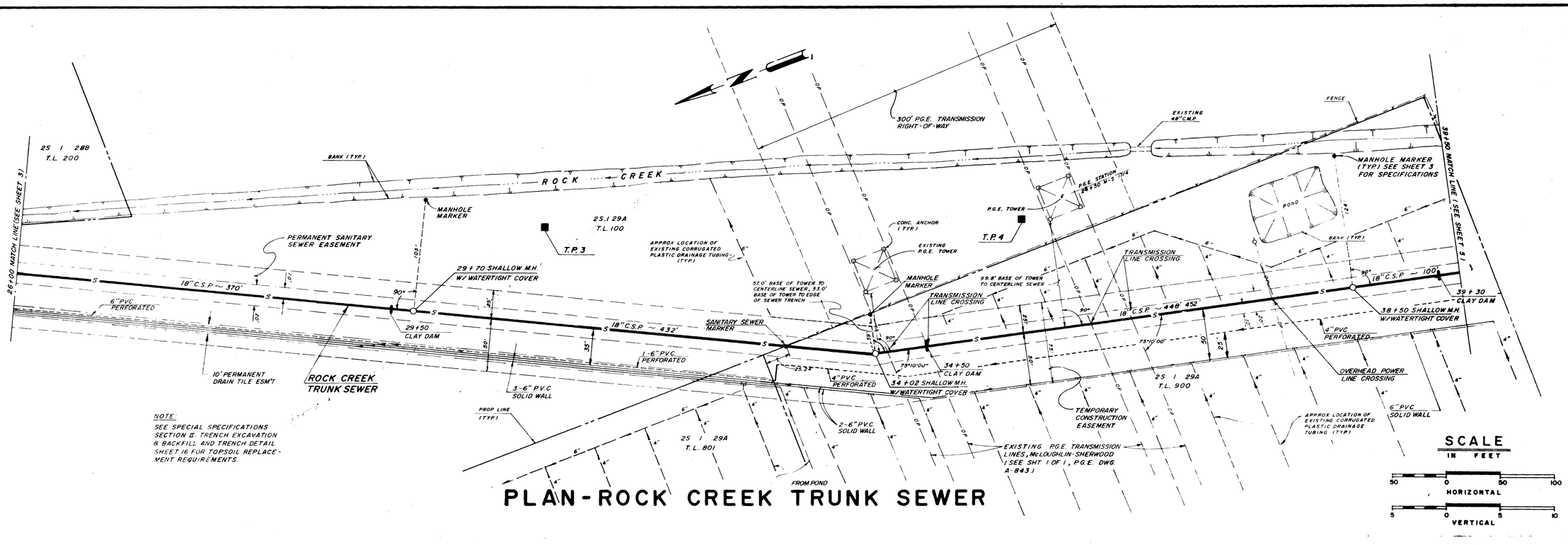
ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

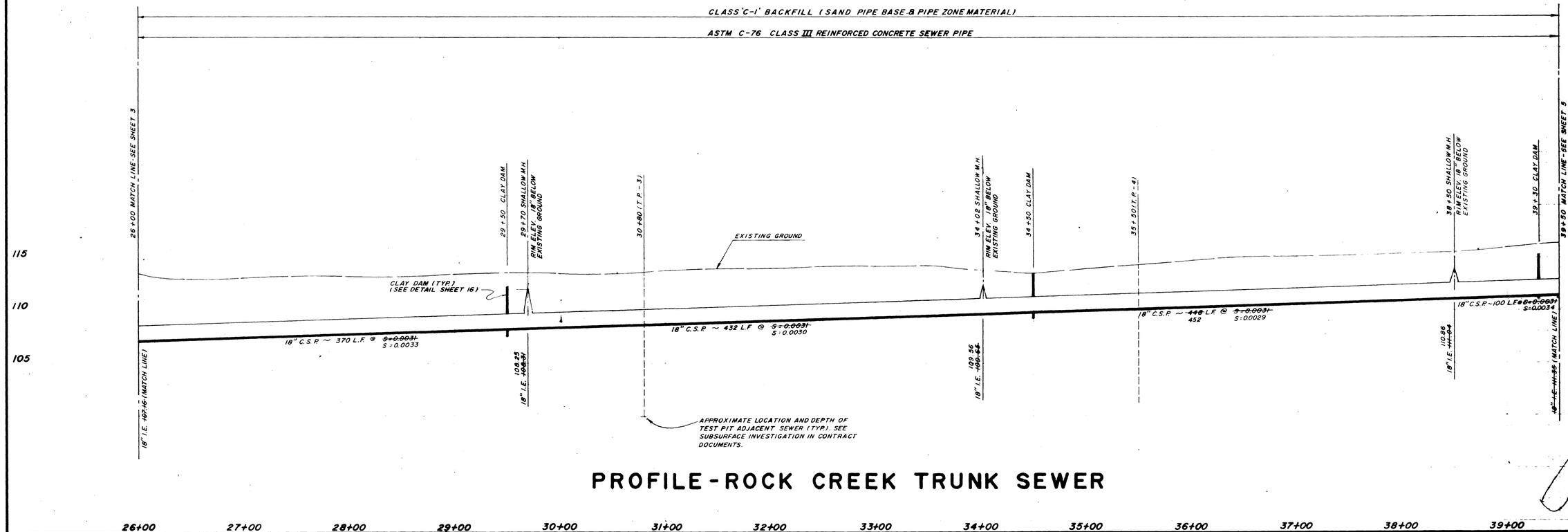
PLAN & PROFILE
SANITARY SEWER IMPROVEMENT

SHEET 3 OF 16



NOTE:
SEE SPECIAL SPECIFICATIONS SECTION II. TRENCH EXCAVATION & BACKFILL AND TRENCH DETAIL SHEET 16 FOR TOPSOIL REPLACEMENT REQUIREMENTS.

PLAN-ROCK CREEK TRUNK SEWER



PROFILE-ROCK CREEK TRUNK SEWER

NO.	REVISIONS	DATE	REC. NO.
3	AS-BUILT / DRAIN TILE LOCATIONS	2-6-84	
2	AS-BUILT	11-24-82	
1	ADDED EXIST. SUBSURFACE DRAINAGE FACILITIES	4-21-81	L506.33

DESIGNED	G.R.A.
DRAWN	D.C.B.
DATE	JULY '81
SCALE	AS SHOWN

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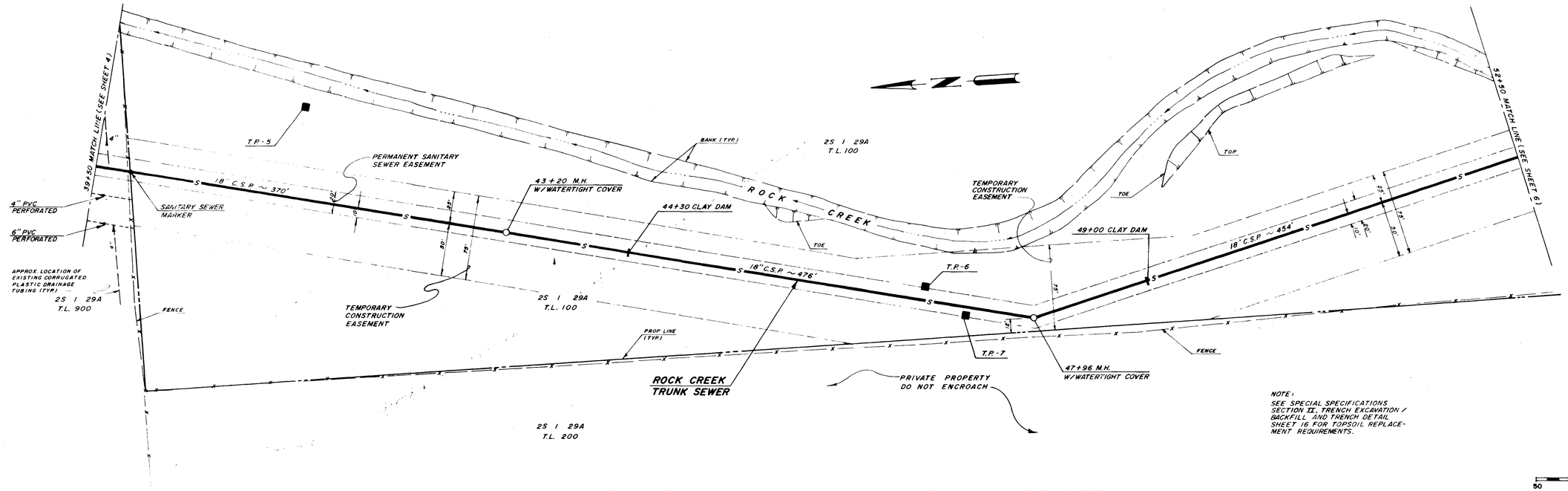
ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
SANITARY SEWER IMPROVEMENT

SHEET 4 OF 16



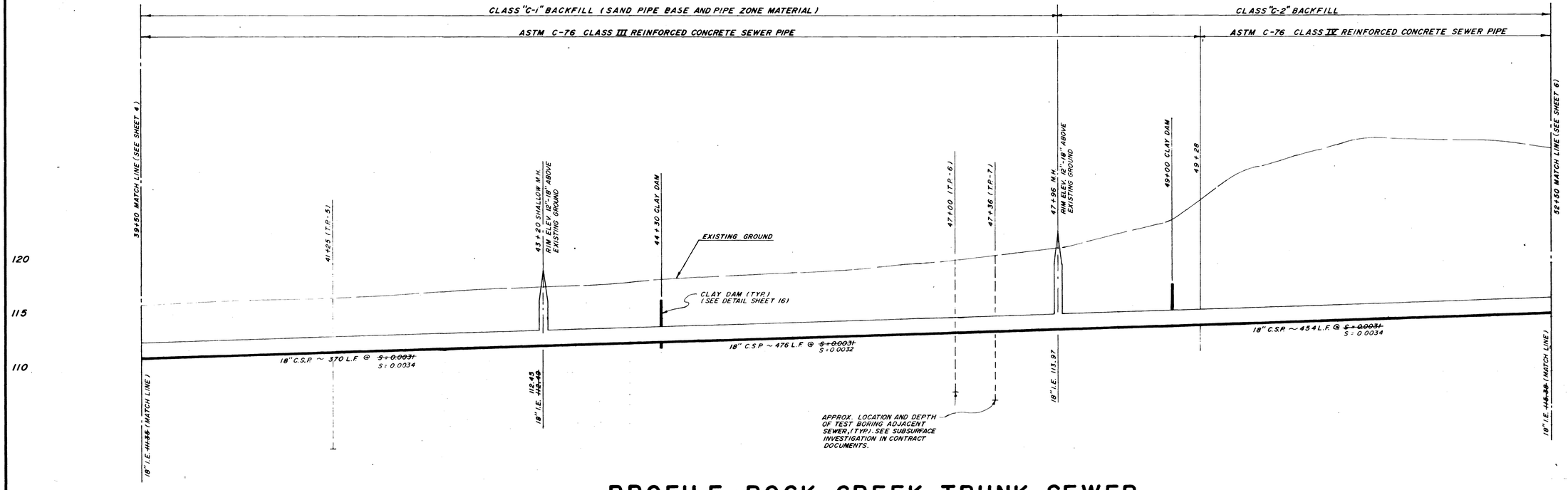
NOTE:
SEE SPECIAL SPECIFICATIONS SECTION II. TRENCH EXCAVATION / BACKFILL AND TRENCH DETAIL SHEET 16 FOR TOPSOIL REPLACEMENT REQUIREMENTS.

SCALE IN FEET

HORIZONTAL: 50 0 50 100

VERTICAL: 5 0 5 10

PLAN-ROCK CREEK TRUNK SEWER



PROFILE-ROCK CREEK TRUNK SEWER

NO	REVISIONS	DATE
2	AS-BUILT	11-24-82
1	ADDED EXIST SUBSURFACE DRAINAGE FACILITIES	8-21-81

DESIGNED	G.R.A.
DRAWN	D.C.B.
DATE	JULY '81
SCALE	AS SHOWN
REC. NO	L506.33

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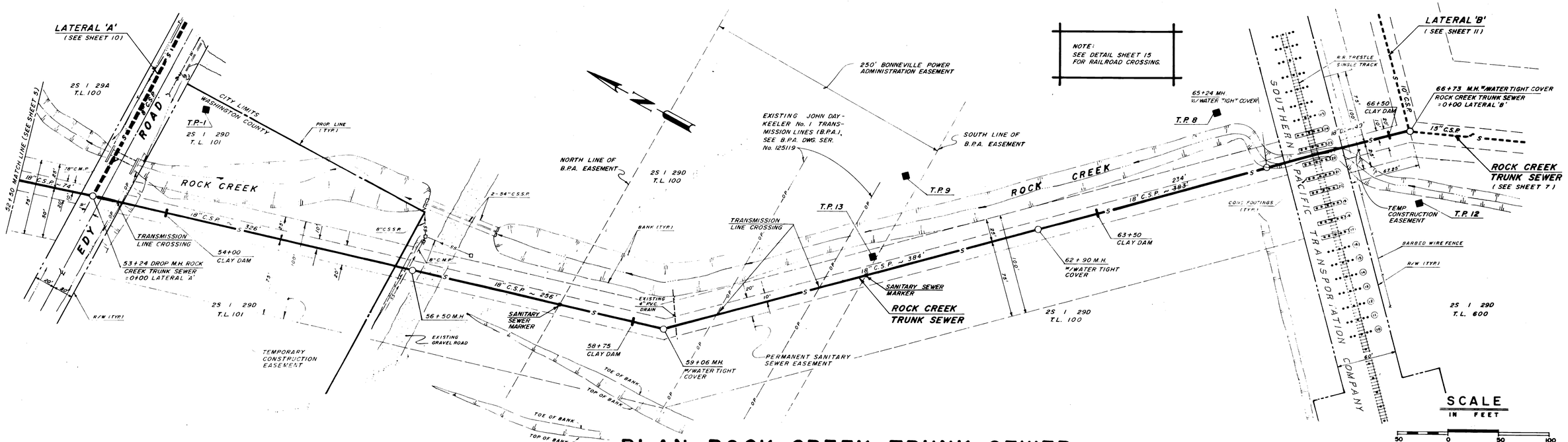
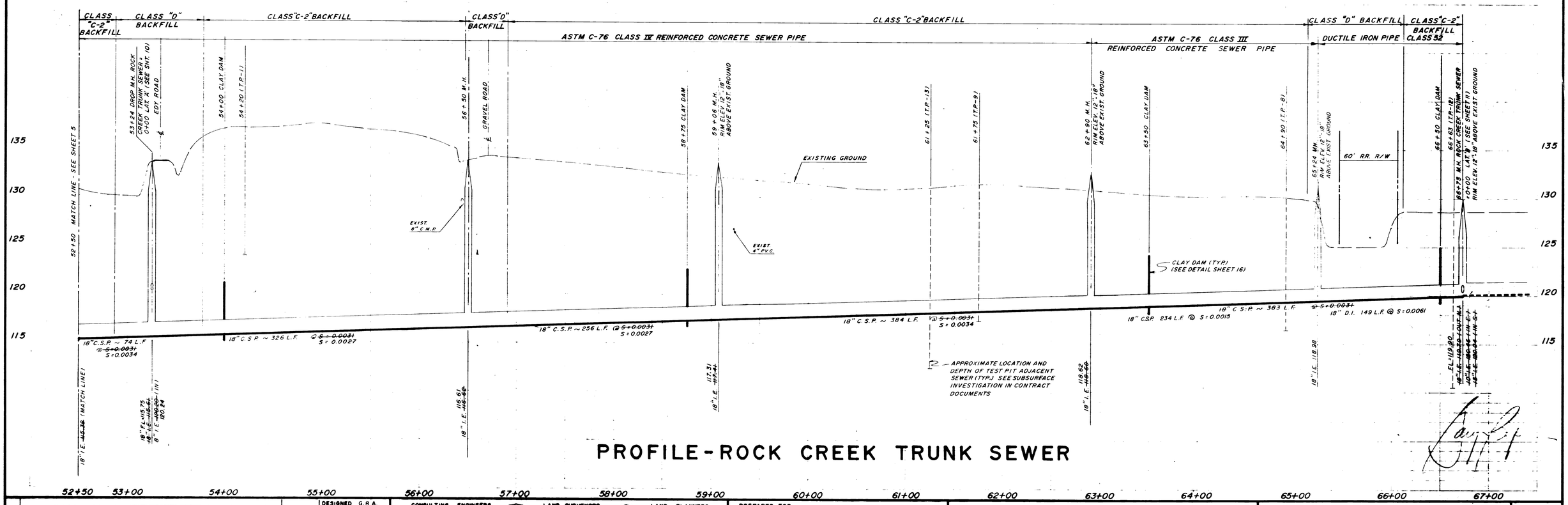
ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
SANITARY SEWER IMPROVEMENT

SHEET 5 OF 16



PLAN-ROCK CREEK TRUNK SEWER



PROFILE-ROCK CREEK TRUNK SEWER

NO.	REVISIONS	DATE
1	AS-BUILT	11 24 82

DESIGNED G.R.A.
DRAWN L.E.S./D.C.B.
DATE JULY '81
SCALE AS SHOWN
REC NO. L 508.33

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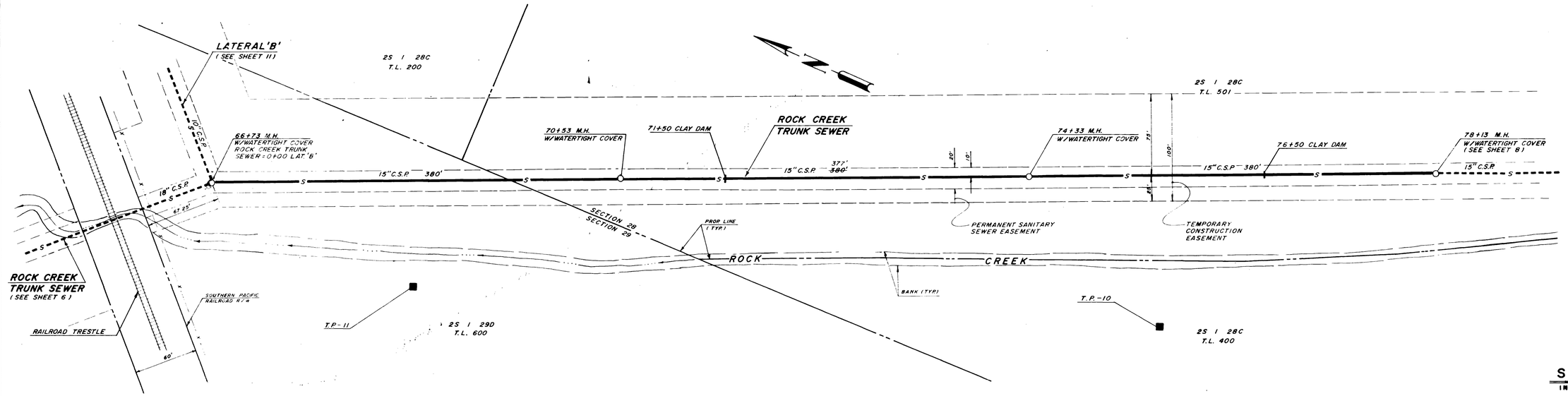
PLAN & PROFILE
SANITARY SEWER IMPROVEMENT

SHEET 6 OF 16



PLAN-ROCK CREEK TRUNK SEWER

SCALE
IN FEET
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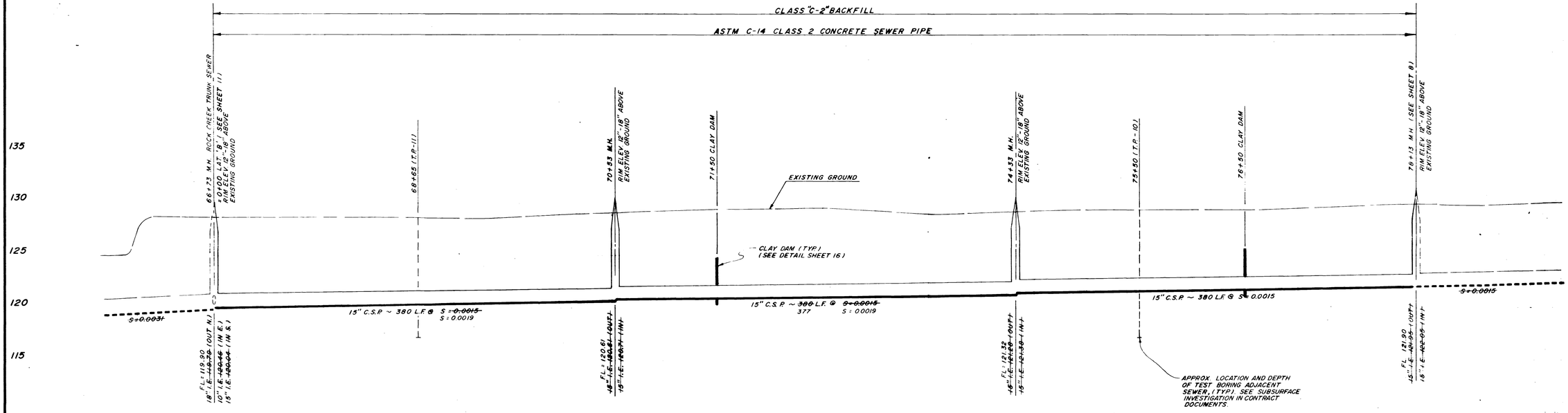
VERTICAL 5 0 5 10



PROFILE-ROCK CREEK TRUNK SEWER

66+00 67+00 68+00 69+00 70+00 71+00 72+00 73+00 74+00 75+00 76+00 77+00 78+00

NO.	REVISIONS	DATE	REC. NO.
1	AS-BUILT	11-24-82	

DESIGNED	G.R.A.
DRAWN	D.C.B.
DATE	JULY '81
SCALE	AS SHOWN
REC. NO.	L506.33

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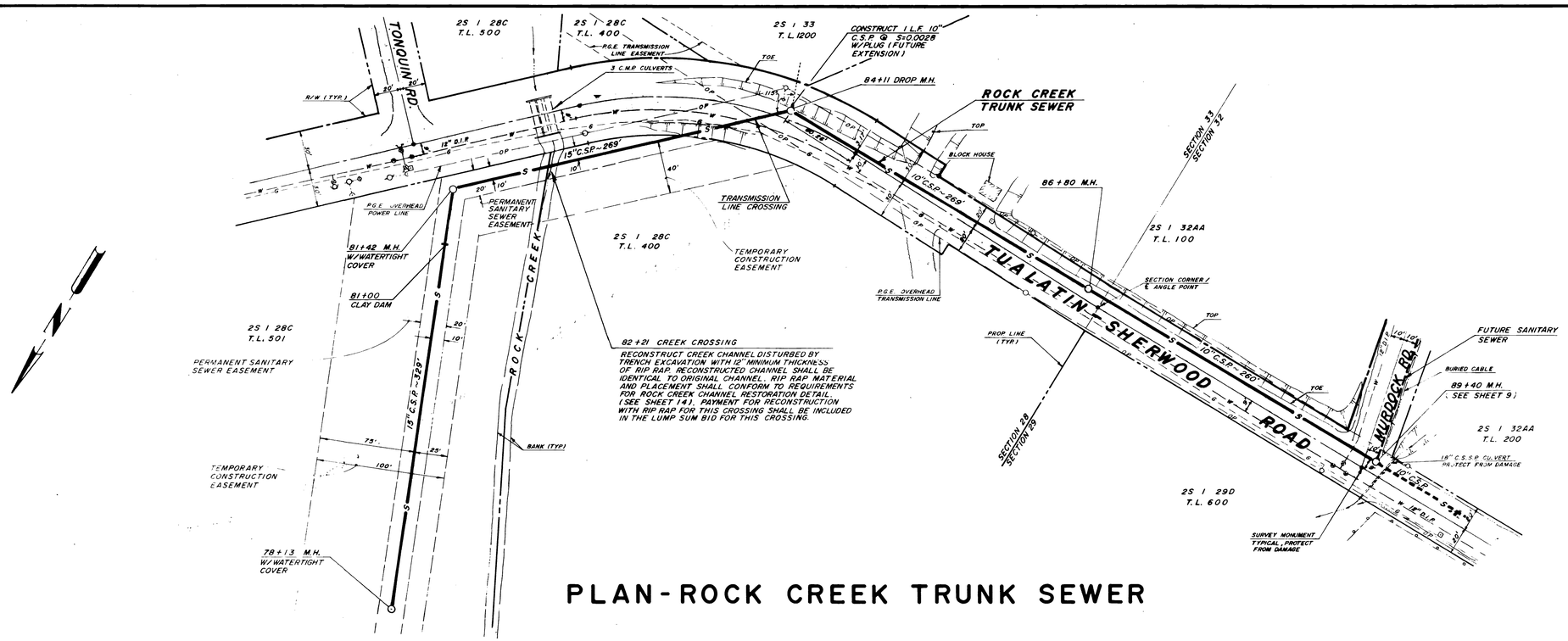
ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
SANITARY SEWER IMPROVEMENT

SHEET 7 OF 16



PLAN-ROCK CREEK TRUNK SEWER

SCALE IN FEET

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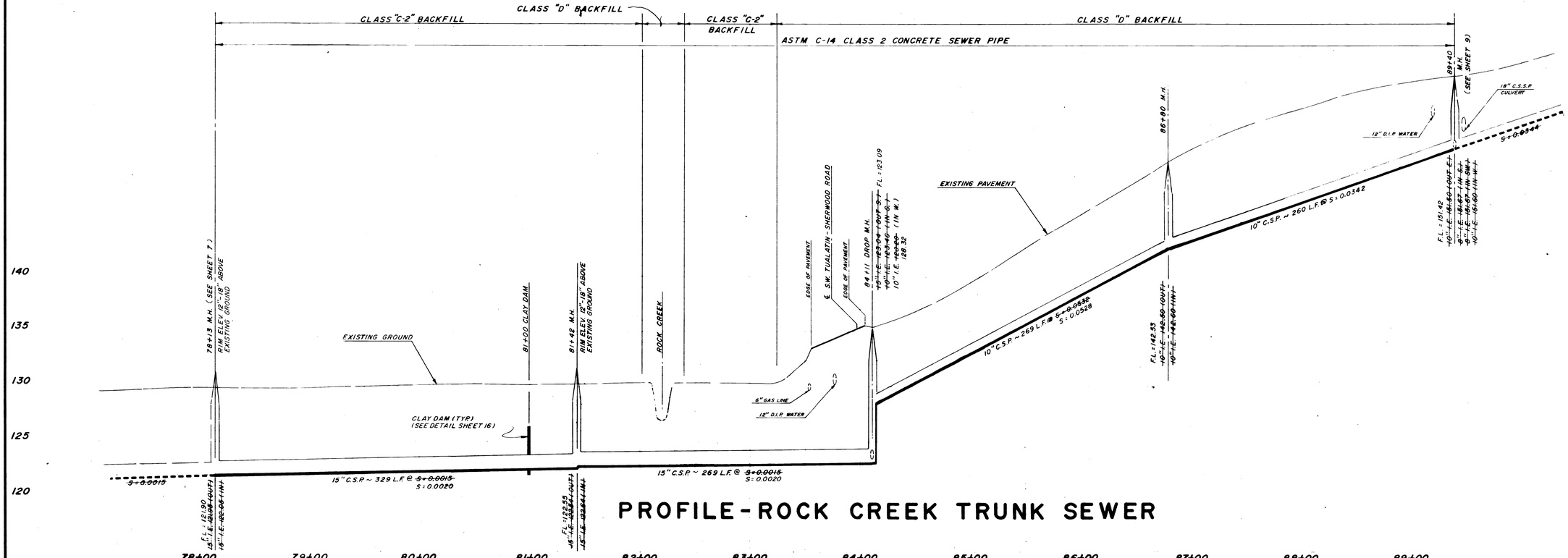
VERTICAL: 5 0 5 10



PROFILE-ROCK CREEK TRUNK SEWER

NO	REVISIONS	DATE
1	AS-BUILT	-4-92

DESIGNED	G.R.A.
DRAWN	D.C.B.
DATE	JULY '81
SCALE	AS SHOWN
REC NO.	1,506.33

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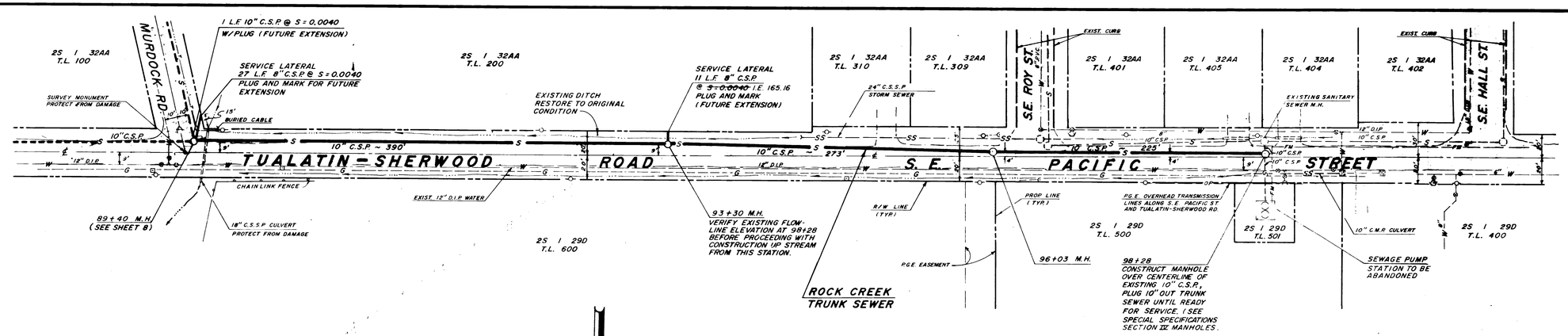
ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
SANITARY SEWER IMPROVEMENT

SHEET 8 OF 16



PLAN-ROCK CREEK TRUNK SEWER

SCALE
IN FEET
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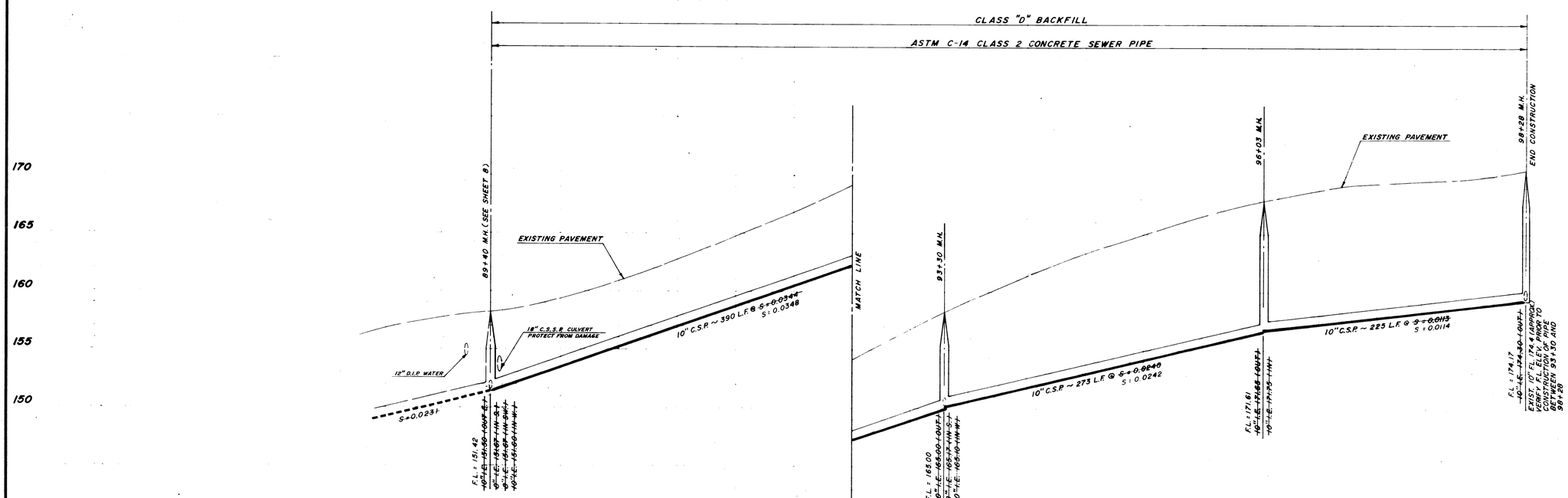
HORIZONTAL
5 0 5 10
VERTICAL



PROFILE-ROCK CREEK TRUNK SEWER

NO	REVISIONS	DATE
1	AS BUILT	11-24-82

DESIGNED	G.R.A.
DRAWN	L.E.S./D.C.B.
DATE	JULY '81
SCALE	AS SHOWN
REC NO.	L 506.33

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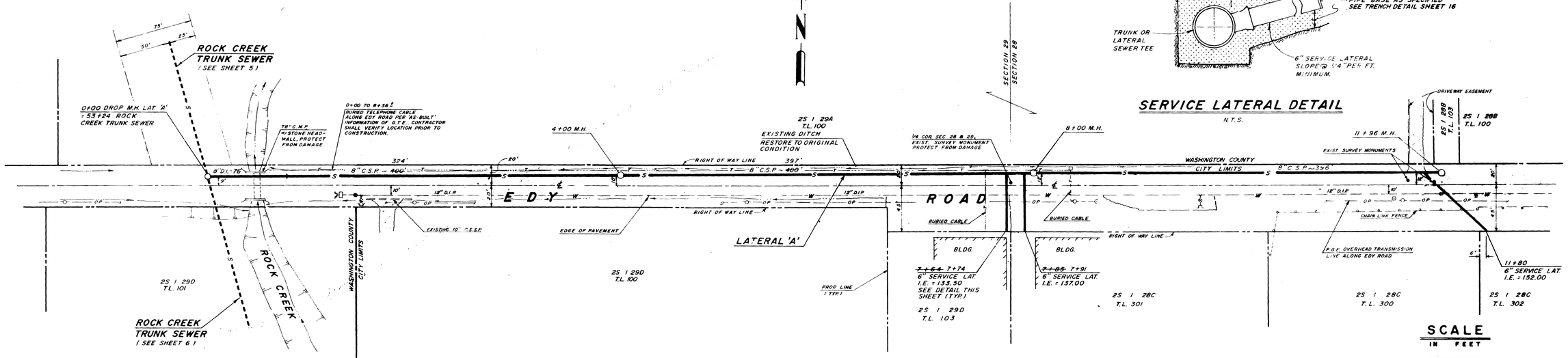
ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
SANITARY SEWER IMPROVEMENT

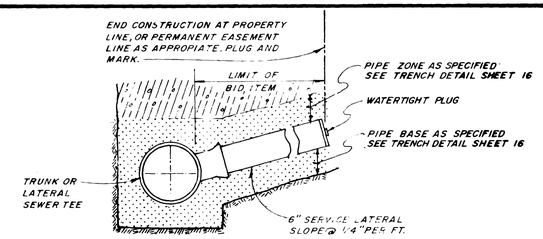
SHEET 9 OF 16

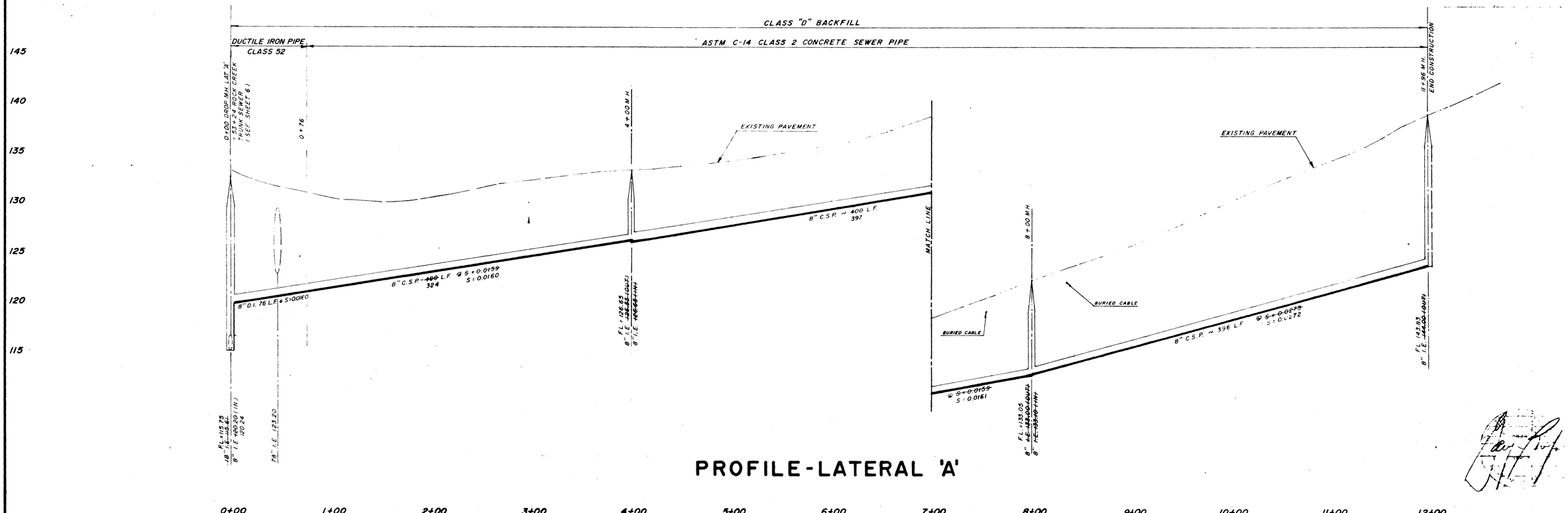


PLAN - LATERAL 'A'

SERVICE LATERAL DETAIL

N.T.S.





PROFILE-LATERAL 'A'

NO.	REVISIONS	DATE
1	AS BUILT	11 24 82

DESIGNED	G.R.A.
DRAWN	L.E.S./D.C.B.
DATE	JULY '81
SCALE	AS SHOWN
REC. NO.	L506.33

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PREPARED FOR:
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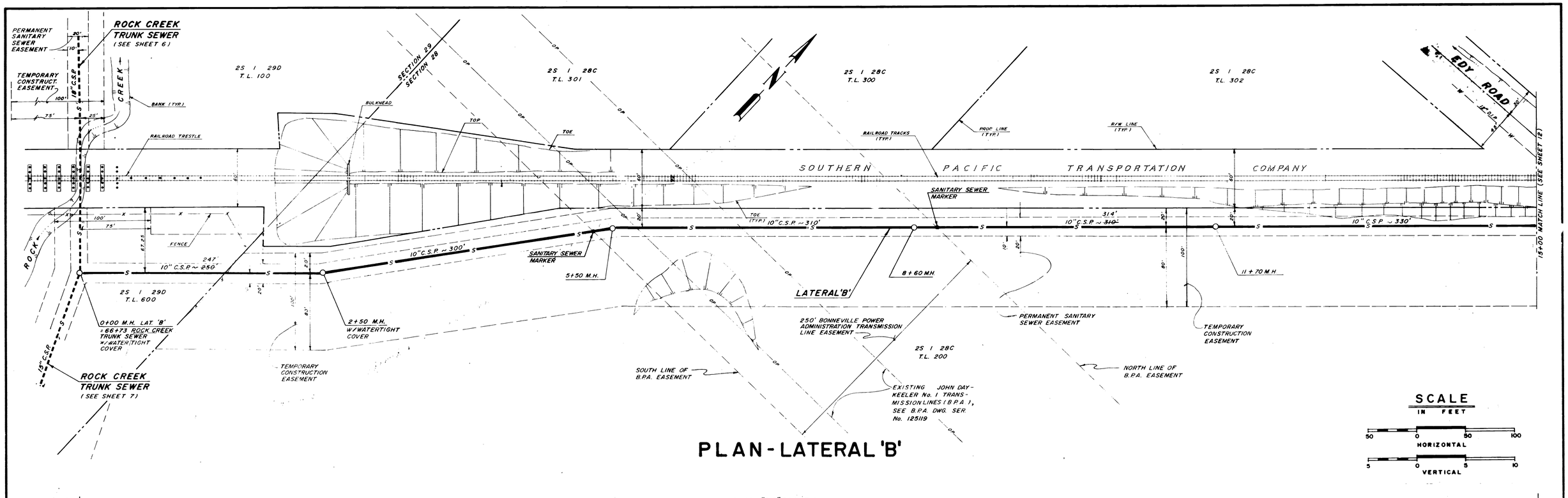
90 N.W. PARK STREET SHERWOOD, OREGON 97140 (503) 625-5522

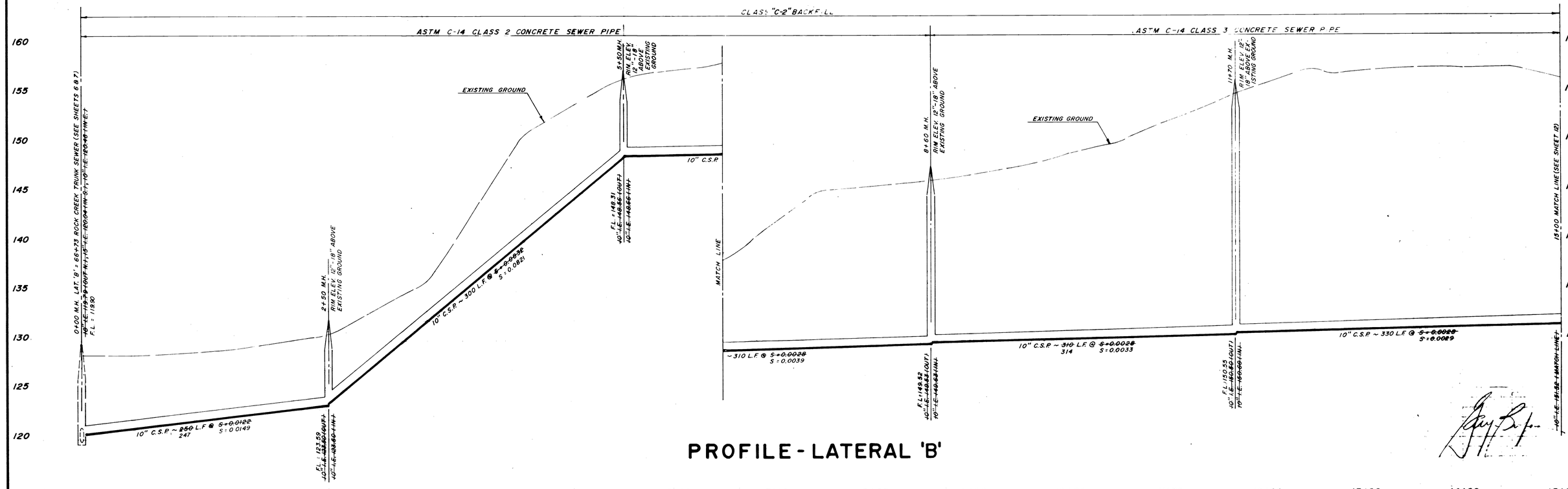
ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
SANITARY SEWER IMPROVEMENT

SHEET 10 OF 16



PLAN - LATERAL 'B'



PROFILE - LATERAL 'B'

NO	REVISIONS	DATE
1	AS BUILT	11-24-82

DESIGNED	G.R.A.
DRAWN	D.C.B.
DATE	JULY '81
SCALE	AS SHOWN
REC NO.	L506.33

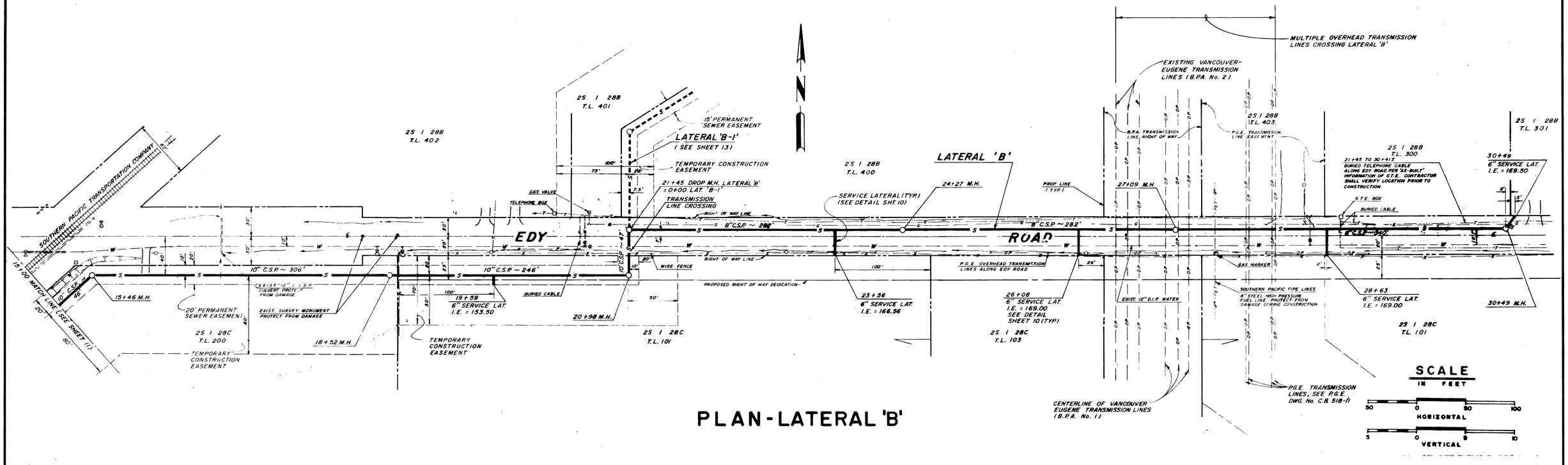
CONSULTING ENGINEERS <> LAND SURVEYORS <> LAND PLANNERS
GARY M. BUFORD & ASSOCIATES
P.O. BOX 1531
LAKE OSWEGO, OREGON 97034
415 N. STATE STREET
(503) 635-3811

PREPARED FOR:
CITY OF SHERWOOD
90 N.W. PARK STREET
SHERWOOD, OREGON 97140
(503) 625-5522

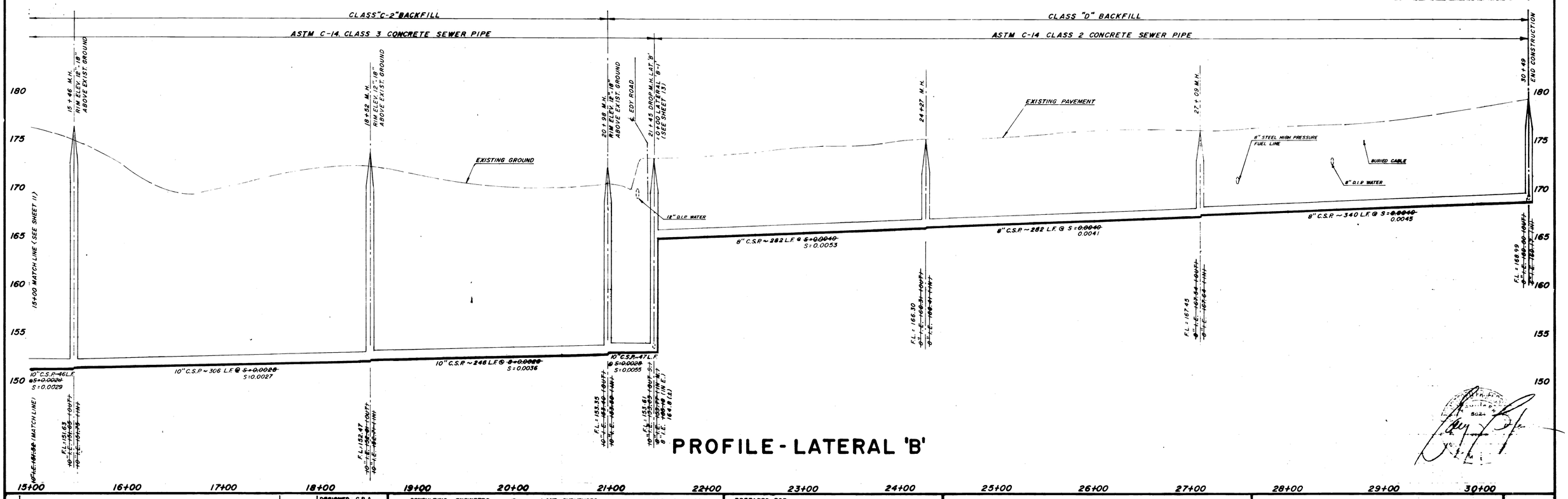
ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
SANITARY SEWER IMPROVEMENT

SHEET 11 OF 16



PLAN - LATERAL 'B'



PROFILE - LATERAL 'B'

NO.	REVISIONS	DATE
1	AS-BUILT	11-24-82

DESIGNED G.R.A.
DRAWN D.C.B.
DATE JULY '81
SCALE AS SHOWN
REC. NO. L506.33

CONSULTING ENGINEERS — LAND SURVEYORS — LAND PLANNERS
GARY M. BUFORD & ASSOCIATES
P.O. BOX 1531 LAKE OSWEGO, OREGON 97034
415 N. STATE STREET (503) 635-3511

PREPARED FOR:
CITY OF SHERWOOD
90 N.W. PARK STREET SHERWOOD, OREGON 97140 (503) 625-5522

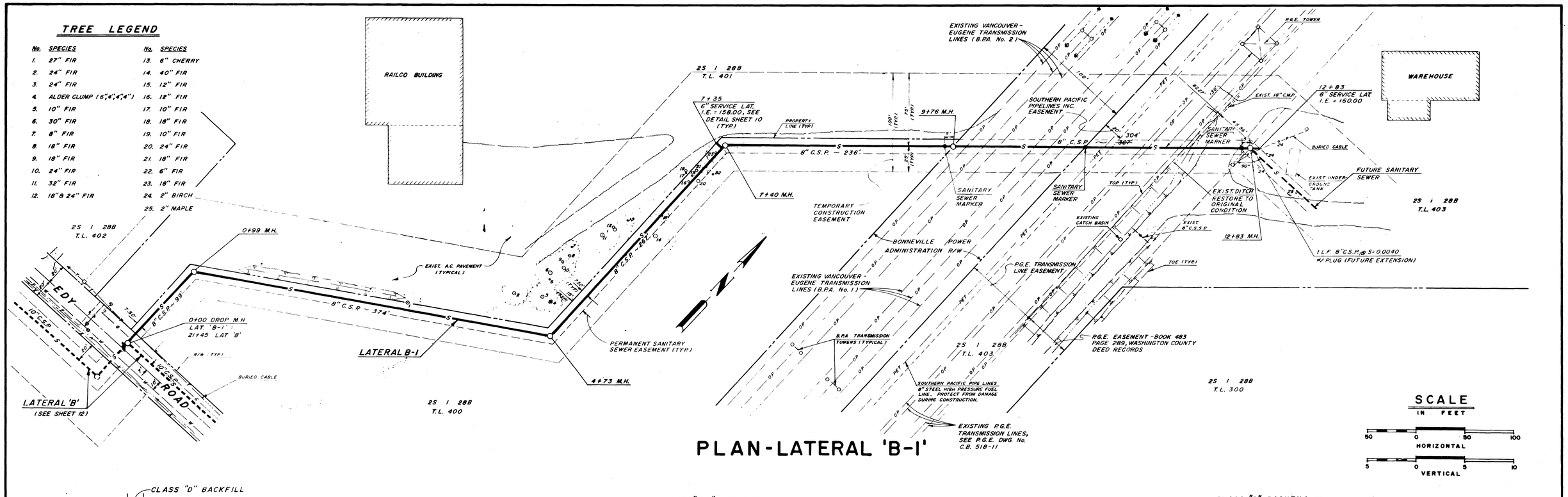
ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
SANITARY SEWER IMPROVEMENT

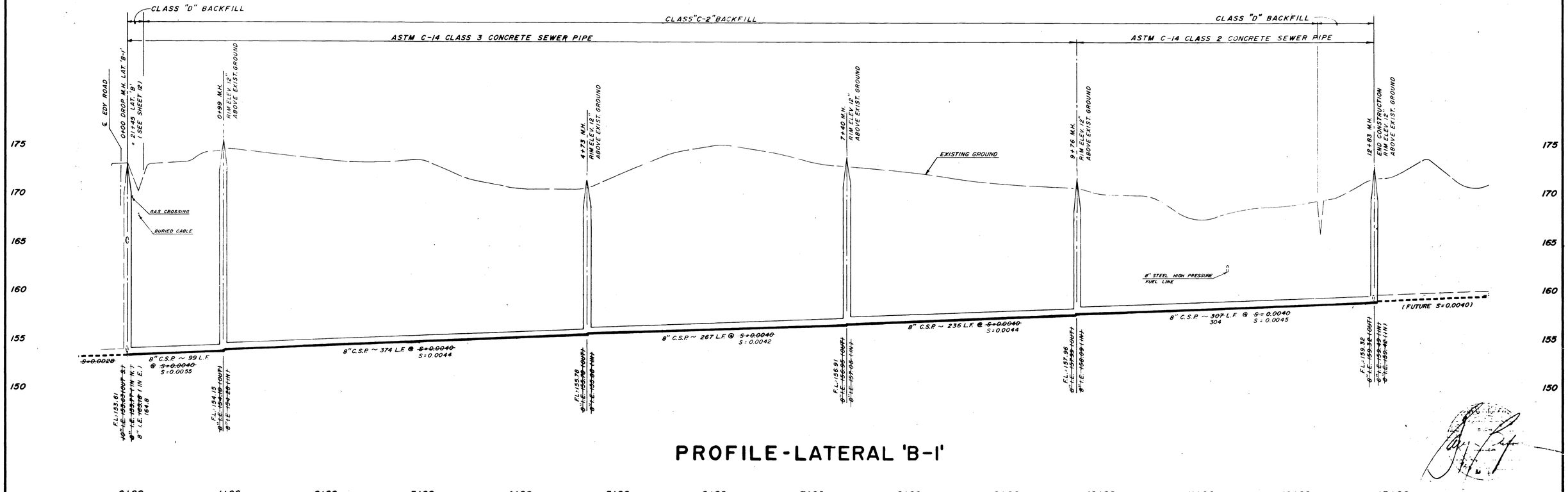
SHEET 12 OF 16

TREE LEGEND

No.	SPECIES	No.	SPECIES
1.	27" FIR	13.	6" CHERRY
2.	24" FIR	14.	40" FIR
3.	24" FIR	15.	12" FIR
4.	ALDER CLUMP (6",4",4",4")	16.	12" FIR
5.	10" FIR	17.	10" FIR
6.	30" FIR	18.	18" FIR
7.	8" FIR	19.	10" FIR
8.	18" FIR	20.	24" FIR
9.	18" FIR	21.	18" FIR
10.	24" FIR	22.	6" FIR
11.	32" FIR	23.	18" FIR
12.	18"& 24" FIR	24.	2" BIRCH
		25.	2" MAPLE



PLAN-LATERAL 'B-1'



PROFILE-LATERAL 'B-1'

NO	REVISIONS	DATE
1	AS BUILT	

DESIGNED	G.R.A.
DRAWN	D.C.B.
DATE	JULY '81
SCALE	AS SHOWN
REC NO.	L506,33

CONSULTING ENGINEERS ◇ LAND SURVEYORS ◇ LAND PLANNERS
GARY M. BUFORD & ASSOCIATES
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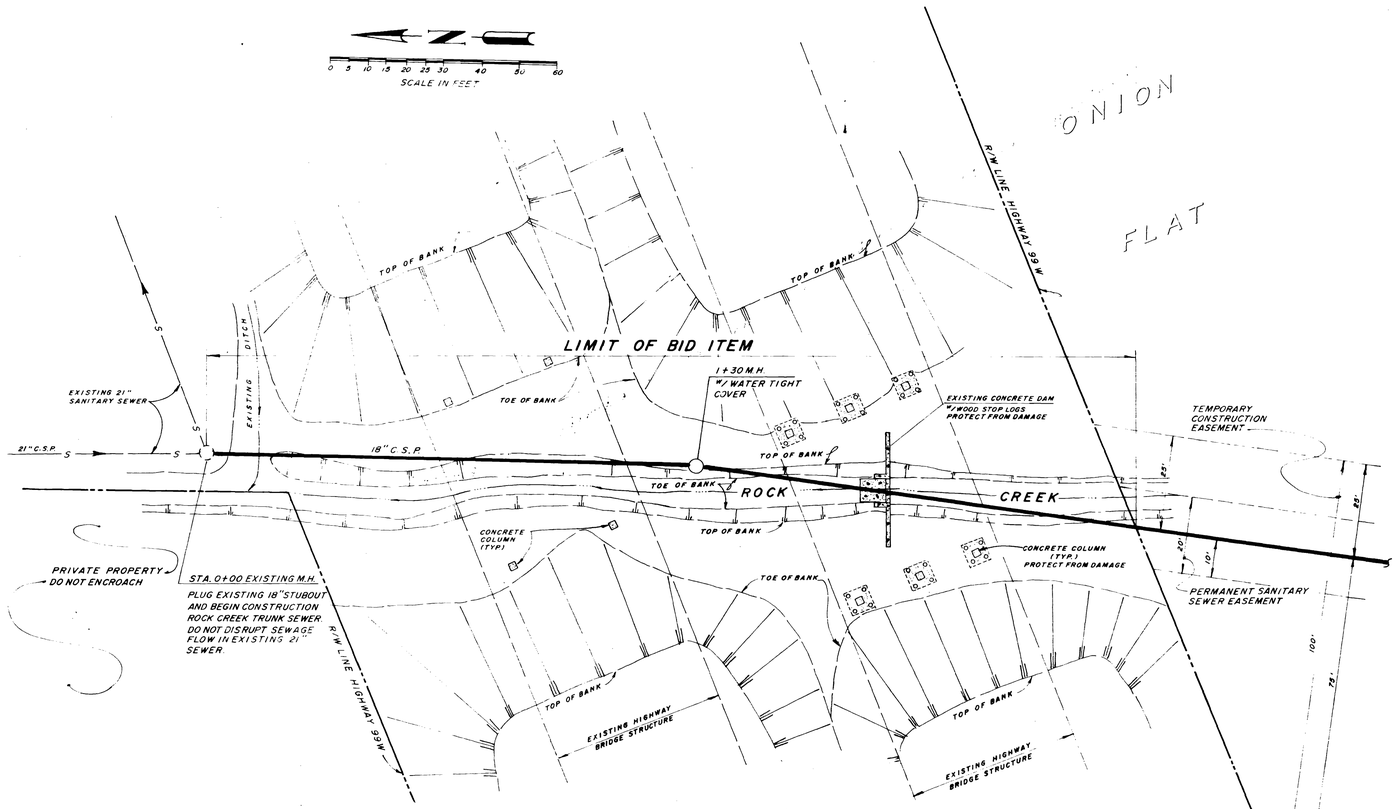
PREPARED FOR:
CITY OF SHERWOOD
90 N.W. PARK STREET SHERWOOD, OREGON 97140 (503) 625-5522

ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
SANITARY SEWER IMPROVEMENT

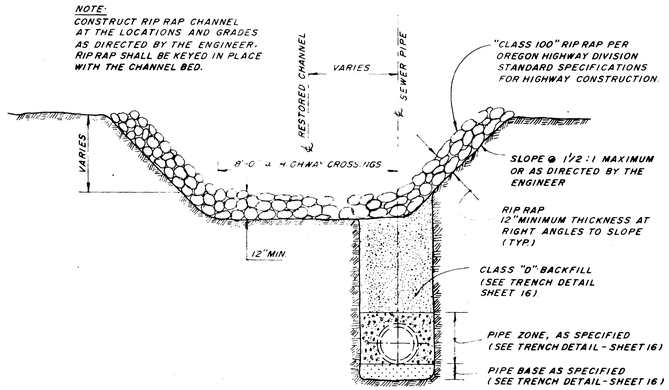
SHEET 13 OF: 16



HIGHWAY CROSSING - U.S. HWY. 99W

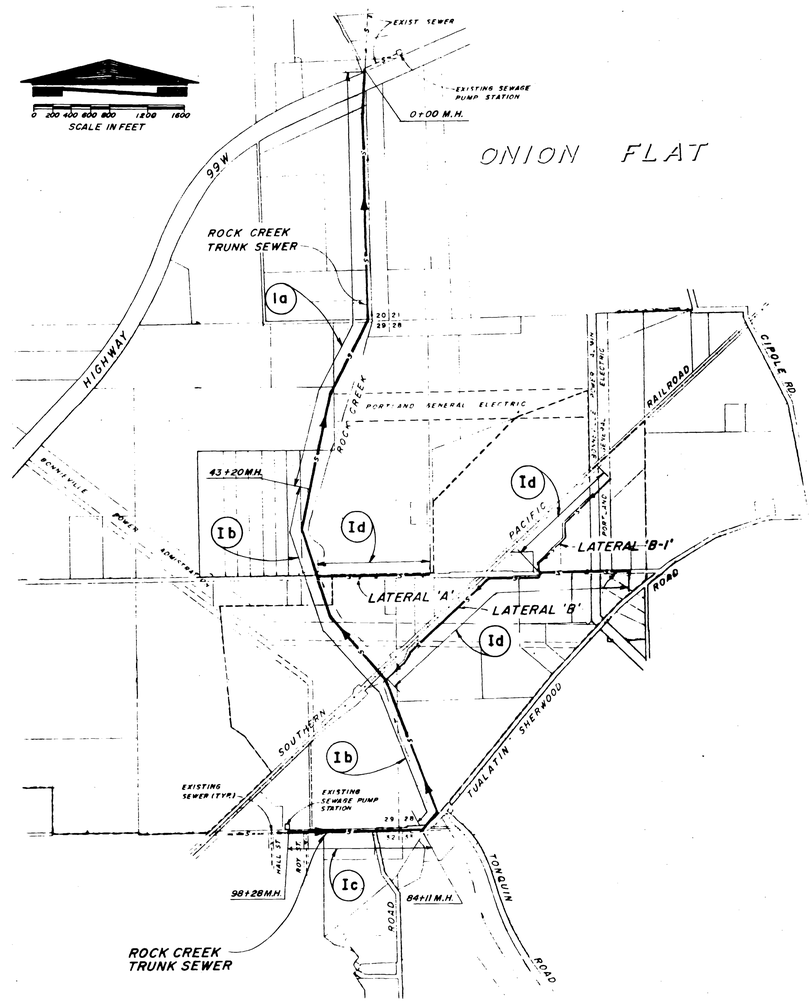
(SEE SPECIAL SPECIFICATION, SECTION VI)
(SEE SHEET 2 OF 16 FOR PLAN AND PROFILE)

NOTE:
CONSTRUCT RIP RAP CHANNEL AT THE LOCATIONS AND GRADES AS DIRECTED BY THE ENGINEER. RIP RAP SHALL BE KEYED IN PLACE WITH THE CHANNEL BED.



ROCK CREEK CHANNEL RESTORATION DETAIL

N.T.S.



SCHEDULE I
SANITARY SEWER IMPROVEMENTS

DIVISION Ia ..... ROCK CREEK TRUNK SEWER, STATIONS 0+00 TO 43+20

DIVISION Ib ..... ROCK CREEK TRUNK SEWER, STATIONS 43+20 TO 84+11, INCLUDING MANHOLE AT STATION 84+11.

DIVISION Ic ..... ROCK CREEK TRUNK SEWER, STATIONS 84+11 TO 98+28

DIVISION Id ..... LATERAL 'A' COMPLETE
LATERAL 'B' COMPLETE
LATERAL 'B-1' COMPLETE

NOTE:
SEE PAGE 2 SPECIAL PROVISIONS OF THE CONTRACT DOCUMENTS FOR CONSTRUCTION SCHEDULING, PROGRESS AND TIME LIMITATIONS.

NO	REVISIONS	DATE
1	AS-BUILT	11-24-82

DESIGNED	G.R.A.
DRAWN	L.E.S.
DATE	JULY 81
SCALE	AS SHOWN
REC. NO.	L 506.33

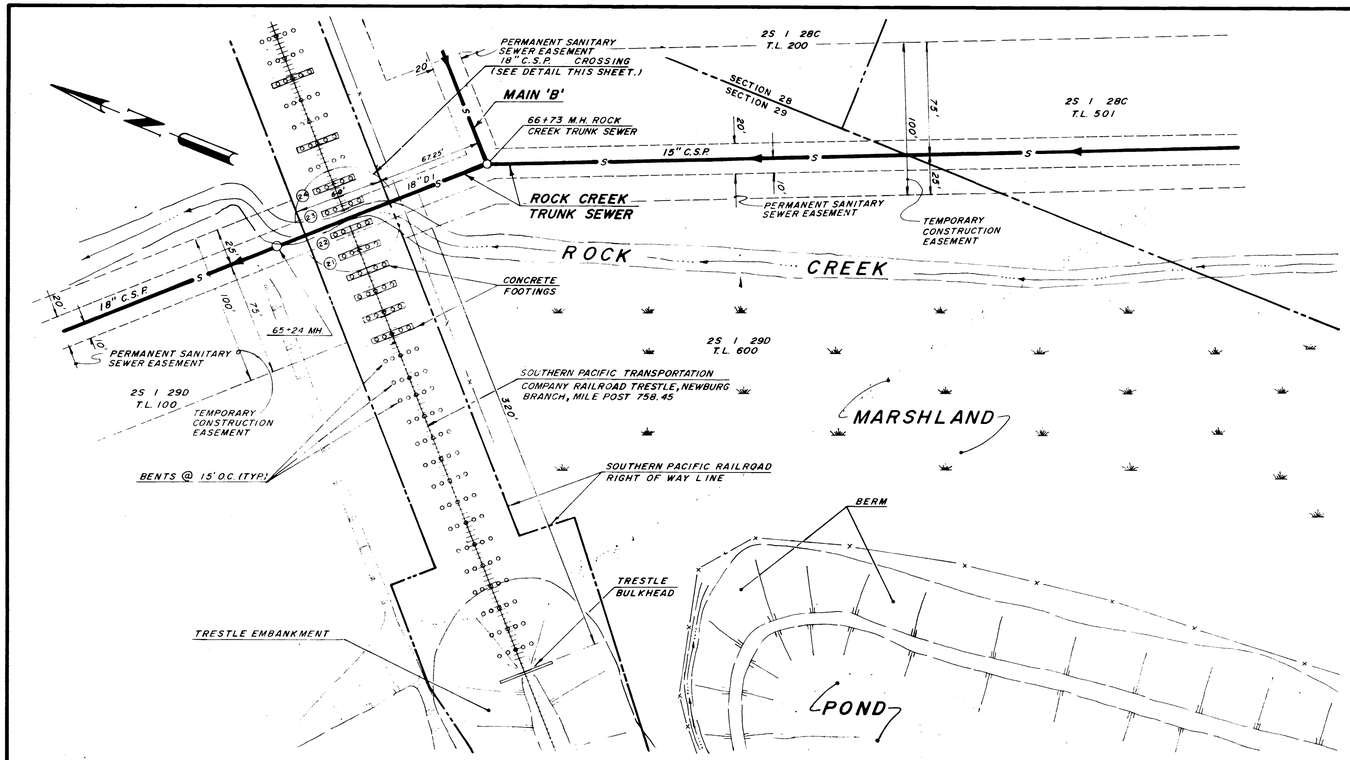
CONSULTING ENGINEERS LAND SURVEYORS LAND PLANNERS
GARY M. BUFORD & ASSOCIATES
P.O. BOX 1531 415 N. STATE STREET
LAKE OSWEGO, OREGON 97034 (503) 635-3511

PREPARED FOR:
CITY OF SHERWOOD
90 N.W. PARK STREET
SHERWOOD, OREGON 97140 (503) 625-5522

ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

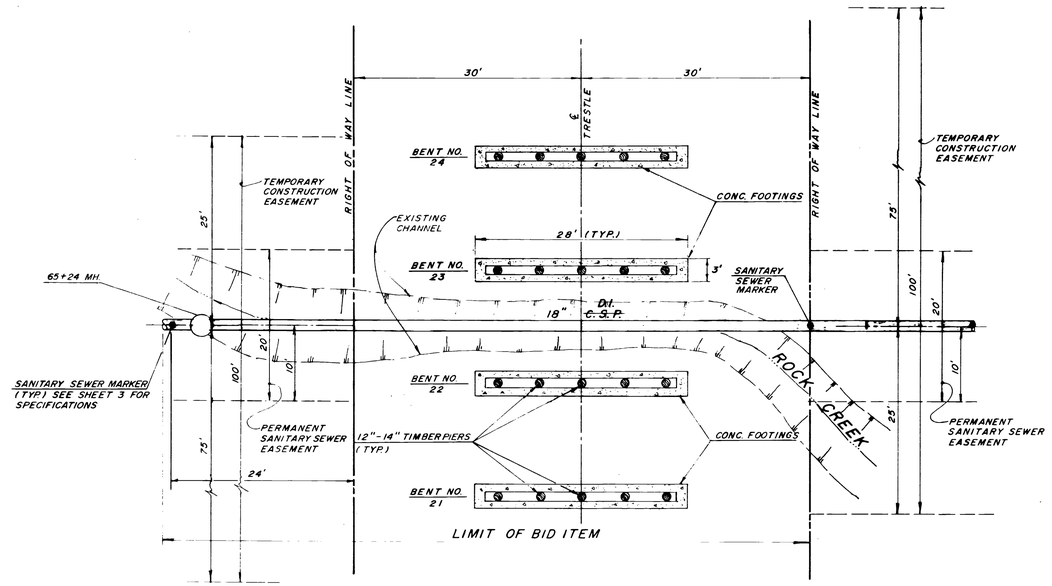
HIGHWAY 99W CROSSING
SANITARY SEWER IMPROVEMENT

SHEET 14 OF 16



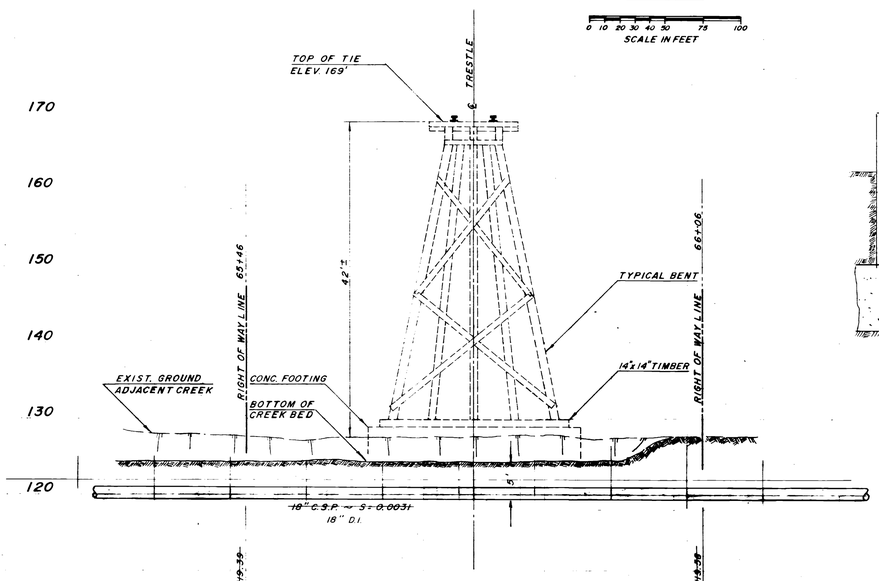
PLAN

0 10 20 30 40 50 75 100
SCALE IN FEET



DETAIL - PLAN

0 5 10 15 20 30 40
SCALE IN FEET

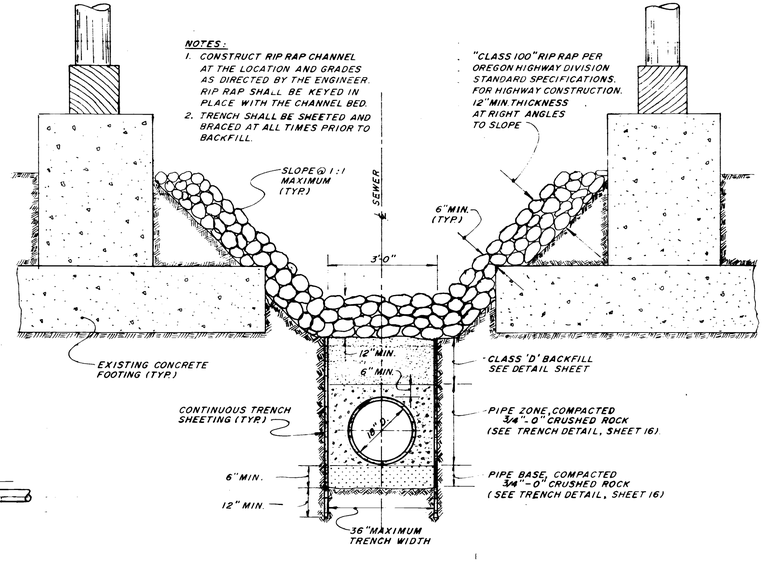


PROFILE

0 5 10 15 20 30 40
SCALE IN FEET

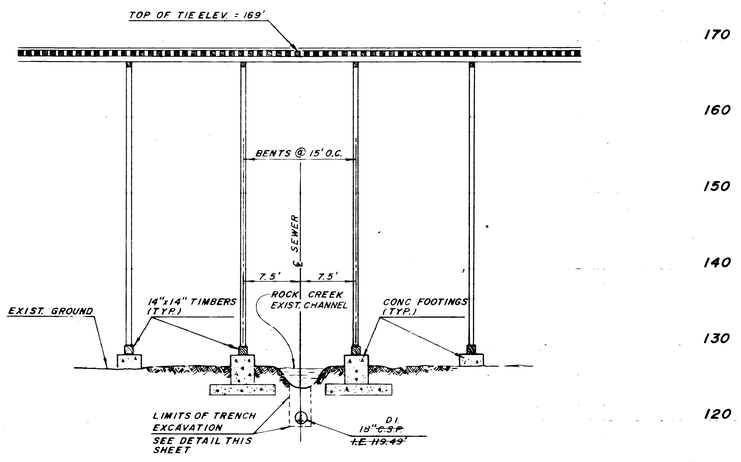
65+00 65+20 65+40 65+60

NOTES:
1. CONSTRUCT RIP RAP CHANNEL AT THE LOCATION AND GRADES AS DIRECTED BY THE ENGINEER. RIP RAP SHALL BE KEYED IN PLACE WITH THE CHANNEL BED.
2. TRENCH SHALL BE SHEETED AND BRACED AT ALL TIMES PRIOR TO BACKFILL.



ROCK CREEK CHANNEL RESTORATION & TRENCH DETAIL

N.T.S.



SECTION @ ℄ TRESTLE

0 5 10 15 20 30 40
SCALE IN FEET

NO.	REVISIONS	DATE
1	AS-BUILT	11-4-82

DESIGNED G.R.A.
DRAWN L.E.S.
DATE JULY 1981
SCALE AS SHOWN
REC. NO. L506.331

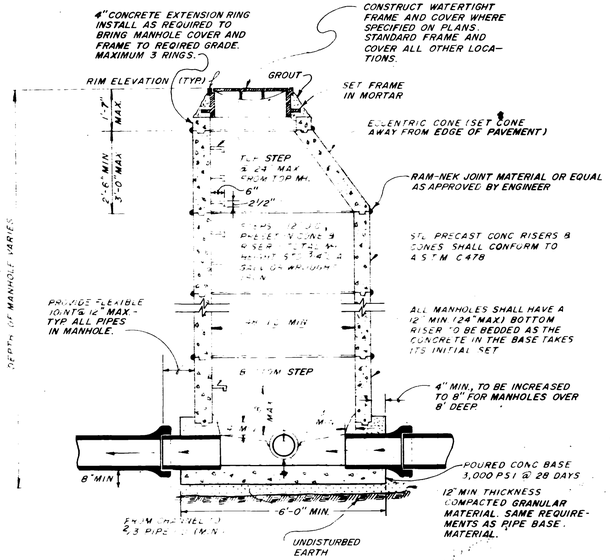
CONSULTING ENGINEERS — LAND SURVEYORS — LAND PLANNERS
GARY M. BUFORD & ASSOCIATES
P.O. BOX 1531 LAKE OSWEGO, OREGON 97034
415 N STATE STREET (503) 635-3511

PREPARED FOR:
CITY OF SHERWOOD
90 N.W. PARK STREET
SHERWOOD, OREGON 97140 (503) 625-5522

ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

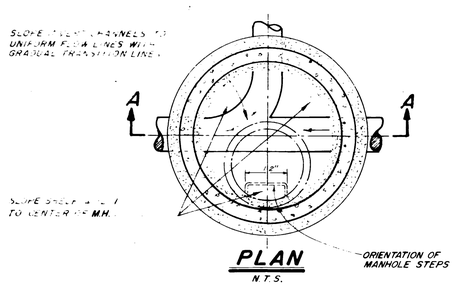
RAILROAD CROSSING
SANITARY SEWER IMPROVEMENT

SHEET 15 OF 16



SECTION A-A

N.T.S.



PLAN

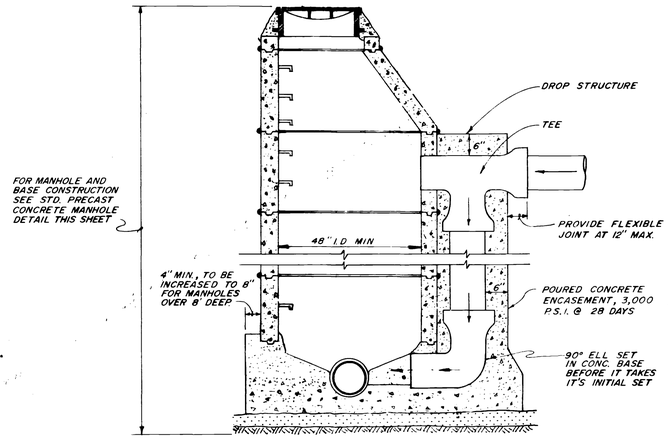
N.T.S.

STANDARD PRECAST CONCRETE MANHOLE

N.T.S.

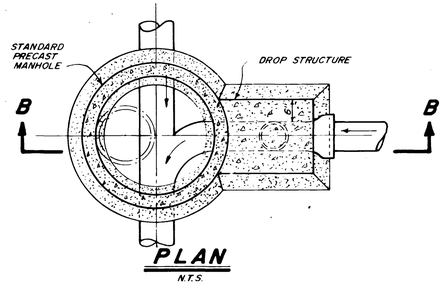
NOTES

1. MANHOLE FRAMES AND COVERS SHALL CONFORM TO SPECIFICATIONS AND REQUIREMENTS OF UNIFIED SEWERAGE AGENCY, WASHINGTON COUNTY.
2. THE "OREGON DROP" MANHOLE IS AN APPROVED EQUAL TO THE DROP MANHOLE SHOWN ON THIS SHEET.



SECTION B-B

N.T.S.



PLAN

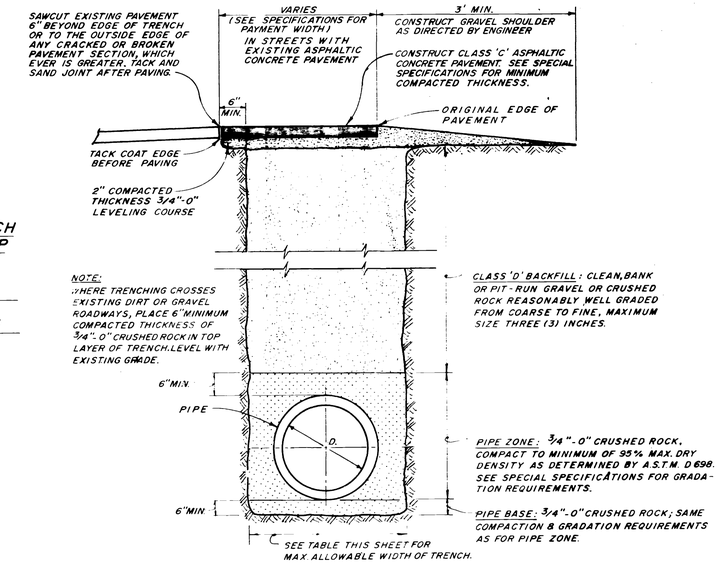
N.T.S.

DROP MANHOLE

N.T.S.

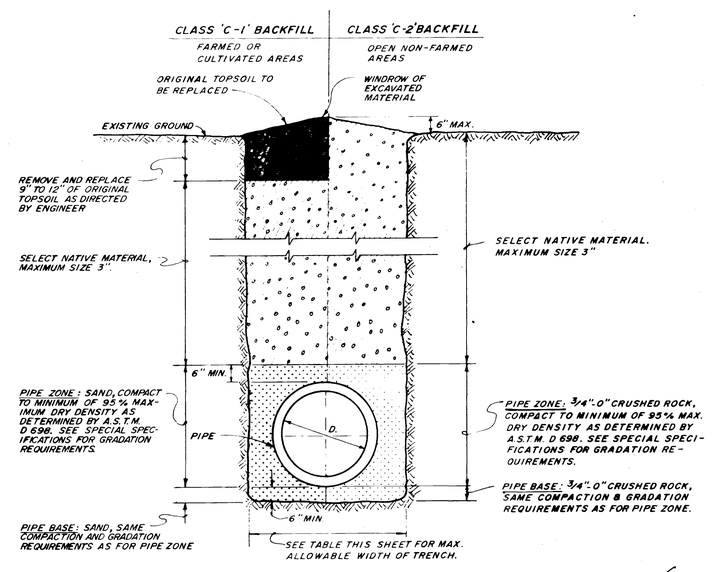
MAXIMUM WIDTH OF TRENCH BOTTOM TO 6" ABOVE TOP OF PIPE

PIPE SIZE	MAXIMUM TRENCH WIDTH
8"	2'-0"
10"	2'-2"
15"	2'-10"
18"	3'-4"



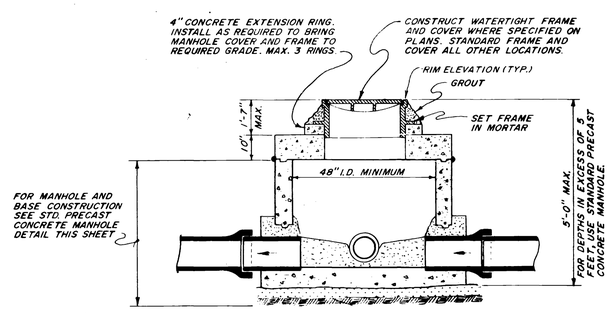
PAVEMENT RECONSTRUCTION TRENCH DETAIL

N.T.S.



STANDARD TRENCH DETAIL

N.T.S.

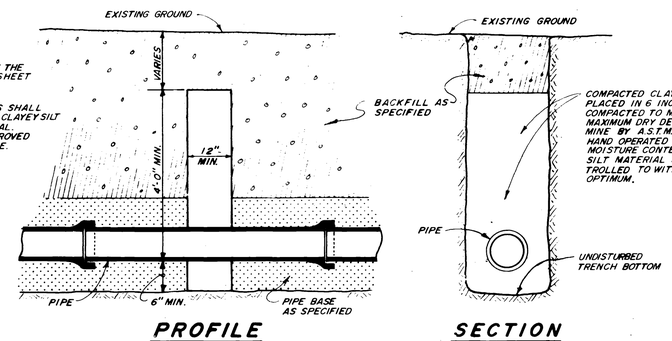


STANDARD SHALLOW MANHOLE

N.T.S.

NOTES

1. CONSTRUCT CLAY DAMS AT THE LOCATIONS AS SHOWN ON SHEET 2 THROUGH 8.
2. MATERIAL FOR CLAY DAMS SHALL BE ON-SITE OR IMPORTED CLAYEY SILT FREE OF ORGANIC MATERIAL. MATERIAL SHALL BE APPROVED BY ENGINEER PRIOR TO USE.



PROFILE

SECTION

CLAY DAM DETAIL

N.T.S.

NO.	REVISIONS	DATE
1	AS-BUILT	11 24 92

DESIGNED	G.R.A.
DRAWN	D.C.B.
DATE	JULY '81
SCALE	AS SHOWN
REC. NO.	L506.33

CONSULTING ENGINEERS ◇ LAND SURVEYORS ◇ LAND PLANNERS
GARY M. BUFORD & ASSOCIATES
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415 N. STATE STREET (503) 635-3511

PREPARED FOR:
CITY OF SHERWOOD
90 N.W. PARK STREET
SHERWOOD, OREGON 97140 (503) 625-5522

ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

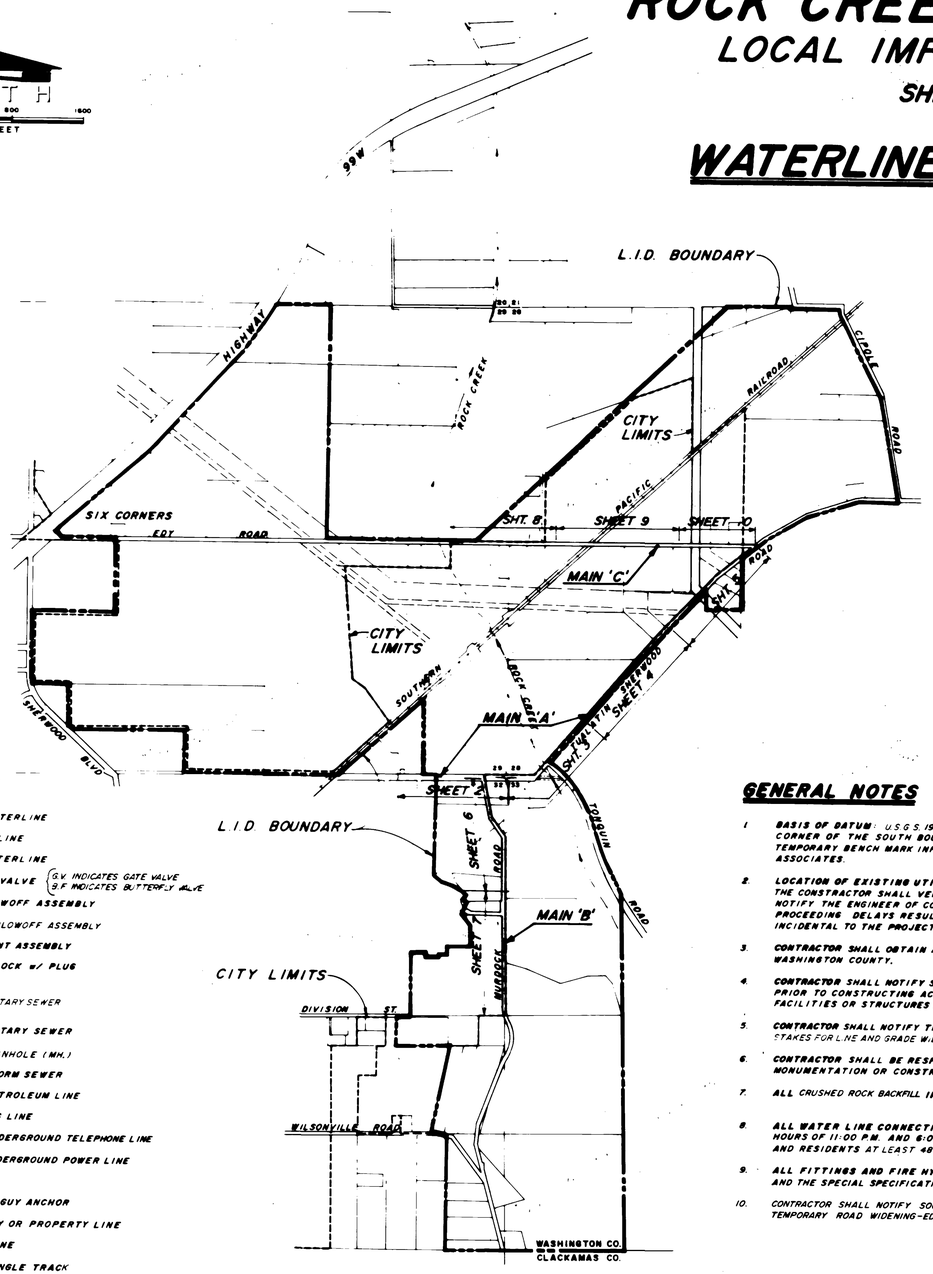
DETAIL SHEET
SANITARY SEWER IMPROVEMENT

SHEET 16 OF 16

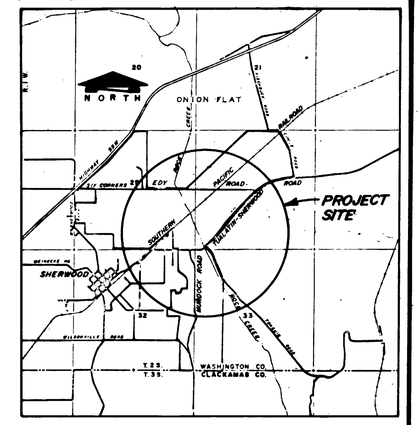
ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT
SHERWOOD, OREGON

WATERLINE IMPROVEMENTS

NORTH
SCALE IN FEET



SITE PLAN



VICINITY MAP

LEGEND:

- EXISTING WATERLINE
- NEW WATERLINE
- FUTURE WATERLINE
- WATERLINE VALVE (G.V. INDICATES GATE VALVE; B.F. INDICATES BUTTERFLY VALVE)
- TYPICAL BLOWOFF ASSEMBLY
- TEMPORARY BLOWOFF ASSEMBLY
- FIRE HYDRANT ASSEMBLY
- STRADDLE BLOCK w/ PLUG
- EXISTING SANITARY SEWER
- FUTURE SANITARY SEWER
- EXISTING MANHOLE (MH.)
- EXISTING STORM SEWER
- EXISTING PETROLEUM LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING UNDERGROUND POWER LINE
- POWER POLE
- POWER POLE GUY ANCHOR
- RIGHT OF WAY OR PROPERTY LINE
- EASEMENT LINE
- RAILROAD SINGLE TRACK
- EXISTING DITCH OR CREEK

GENERAL NOTES

1. BASIS OF DATUM: U.S.G.S. 1947 DATUM, O.S.H.D. B.M. ELEV. 152.90 BRASS CAP IN WALK AT THE N.W. CORNER OF THE SOUTH BOUND BRIDGE OF HWY. 99W AT ROCK CREEK. TEMPORARY BENCH MARK INFORMATION IS AVAILABLE UPON REQUEST FROM GARY M. BUFORD & ASSOCIATES.
2. LOCATION OF EXISTING UTILITIES ARE BASED ON AVAILABLE RECORDS. PRIOR TO CONSTRUCTION, THE CONSTRACTOR SHALL VERIFY THE LOCATIONS OF ALL CONFLICTING UTILITIES AND SHALL NOTIFY THE ENGINEER OF CONDITIONS WHICH DIFFER FROM THOSE SHOWN ON THE PLANS PRIOR TO PROCEEDING. DELAYS RESULTING FROM CONFLICTS WITH EXISTING UTILITIES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL PAYMENT SHALL BE MADE.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES FROM THE CITY OF SHERWOOD, AND WASHINGTON COUNTY.
4. CONTRACTOR SHALL NOTIFY SOUTHERN PACIFIC PIPE LINE COMPANY AND ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTING ACROSS OR WITHIN FIVE FEET OF THEIR UNDERGROUND OR ABOVEGROUND FACILITIES OR STRUCTURES AT LEAST 48 HOURS IN ADVANCE.
5. CONTRACTOR SHALL NOTIFY THE ENGINEER THREE (3) DAYS IN ADVANCE OF THE TIME THAT CONSTRUCTION STAKES FOR LINE AND GRADE WILL BE NEEDED.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF ALL DAMAGED OR DESTROYED SURVEY MONUMENTATION OR CONSTRUCTION STAKES CAUSED BY HIS ACTIVITIES.
7. ALL CRUSHED ROCK BACKFILL IN TRENCHES TO BE COMPACTED TO PREVENT SUBSEQUENT SETTLEMENT.
8. ALL WATER LINE CONNECTIONS TO EXISTING WATER MAINS SHALL BE PERFORMED BETWEEN THE HOURS OF 11:00 P.M. AND 6:00 A.M. CONTRACTOR SHALL NOTIFY ALL AFFECTED PROPERTY OWNERS AND RESIDENTS AT LEAST 48 HOURS IN ADVANCE OF THE PROPOSED INTERRUPTION OF SERVICE.
9. ALL FITTINGS AND FIRE HYDRANTS SHALL BE THRUST BLOCKED IN ACCORDANCE WITH THE DETAILS AND THE SPECIAL SPECIFICATIONS.
10. CONTRACTOR SHALL NOTIFY SOUTHERN PACIFIC TRANSPORTATION COMPANY 5 DAYS PRIOR TO CONSTRUCTING TEMPORARY ROAD WIDENING-EDY ROAD.

SHEET INDEX

	SHEET
MAIN 'A' (TUALATIN-SHERWOOD ROAD)	2
MAIN 'B' (MURDOCK ROAD)	6
MAIN 'C' (EDY ROAD)	8

SET NO.

NO.	REVISIONS	DATE
1	AS-BUILT	SEPT. '81

DESIGNED: GRA/ARW
DRAWN: RLM/DCB
DATE: MAR '81
SCALE: AS SHOWN
REC. NO.: L 506.34

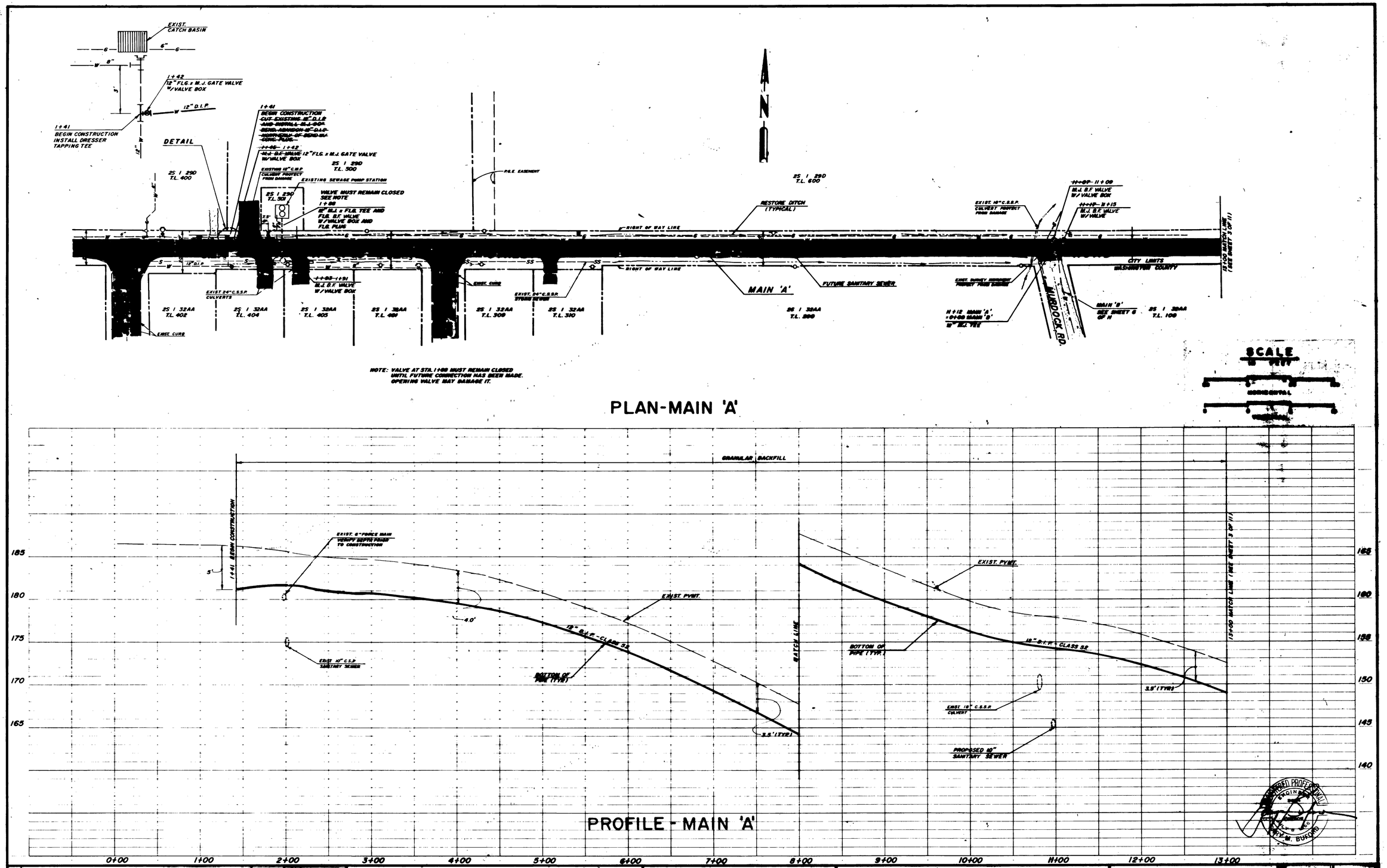
CONSULTING ENGINEERS — LAND SURVEYORS — LAND PLANNERS
GARY M. BUFORD & ASSOCIATES
P.O. BOX 1531
LAKE OSWEGO, OREGON 97034
415 N. STATE STREET
(503) 635-3611

PREPARED FOR:
CITY OF SHERWOOD
90 N.W. PARK STREET
SHERWOOD, OREGON 97140
(503) 625-5522

ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

TITLE SHEET
SITE PLAN / VICINITY MAP / INDEX

SHEET 1 OF 11



NO.	REVISIONS	DATE
1	AS-BUILT	SEPT. '81

DESIGNED: GRA/RMB
DRAWN: LES/DCB
DATE: MARCH '81
SCALE: AS SHOWN
SEC. NO.: L-[illegible]

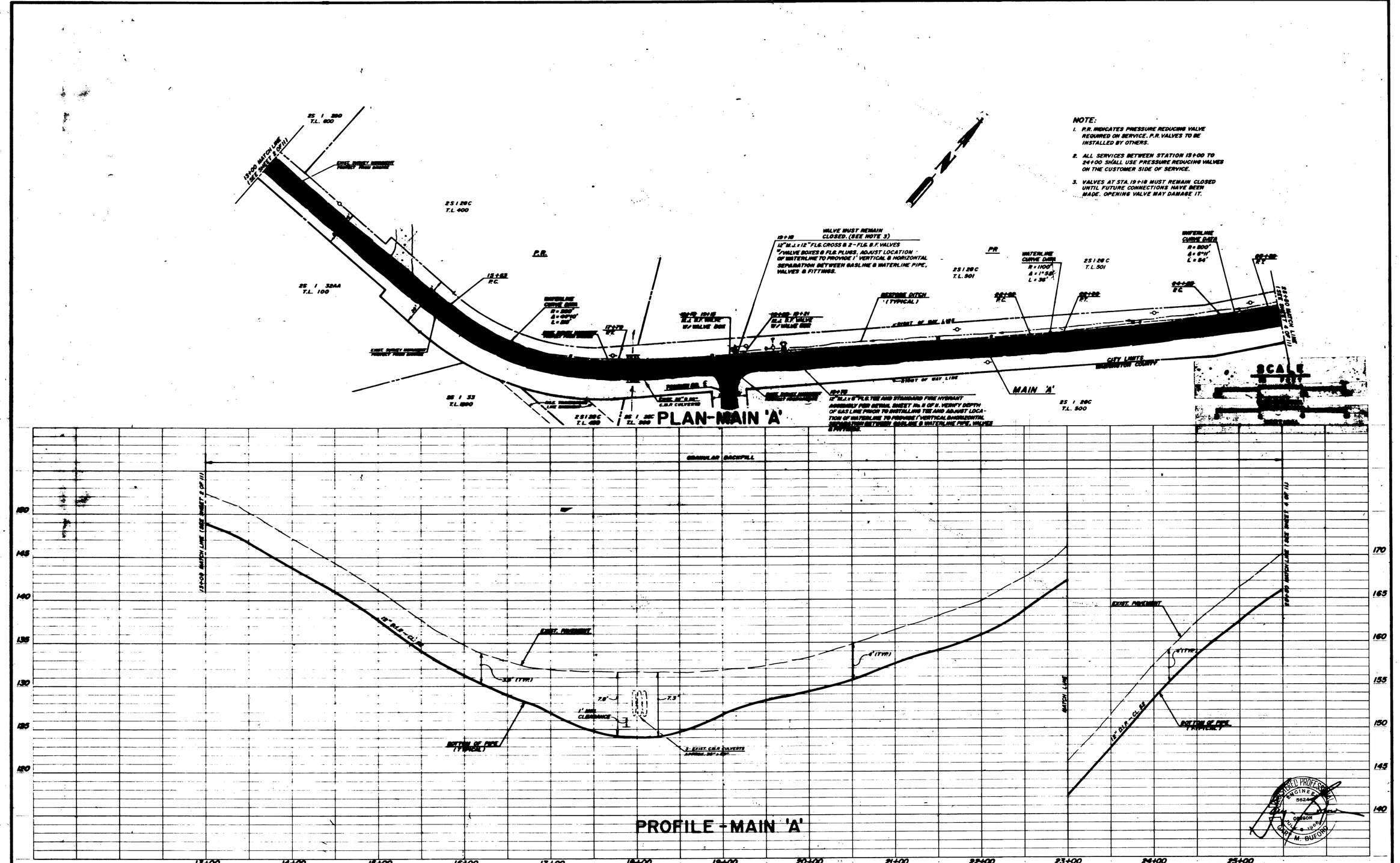
CONSULTING ENGINEERS — LAND SURVEYORS — LAND PLANNERS
GARY M. BUFORD & ASSOCIATES
P.O. BOX 1031
LAKE OSWEGO, OREGON 97034
415 N. STATE STREET
(503) 636-3611

PREPARED FOR:
CITY OF SHERWOOD
90 N.W. PARK STREET
SHERWOOD, OREGON 97140
(503) 625-5522

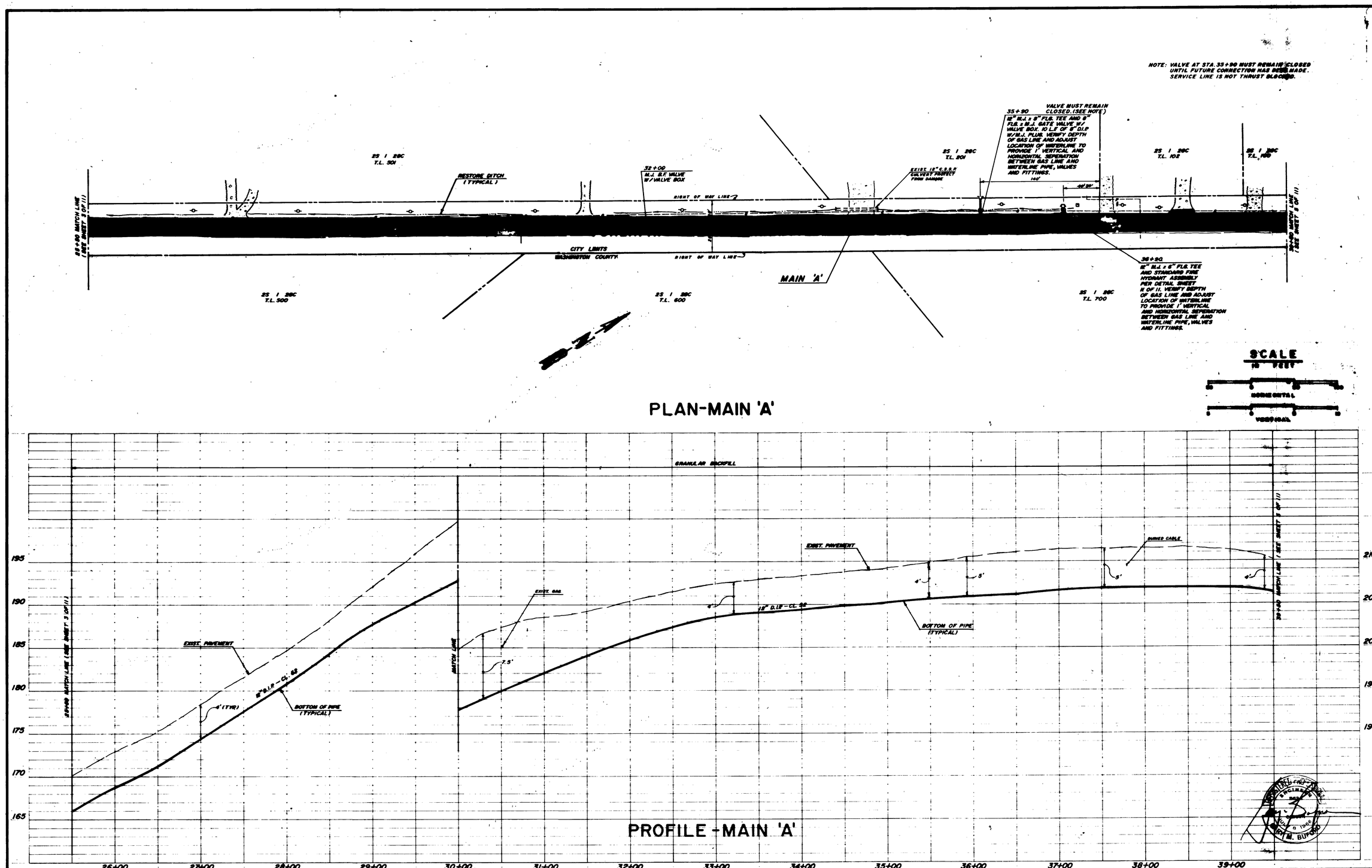
ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
WATERLINE IMPROVEMENT

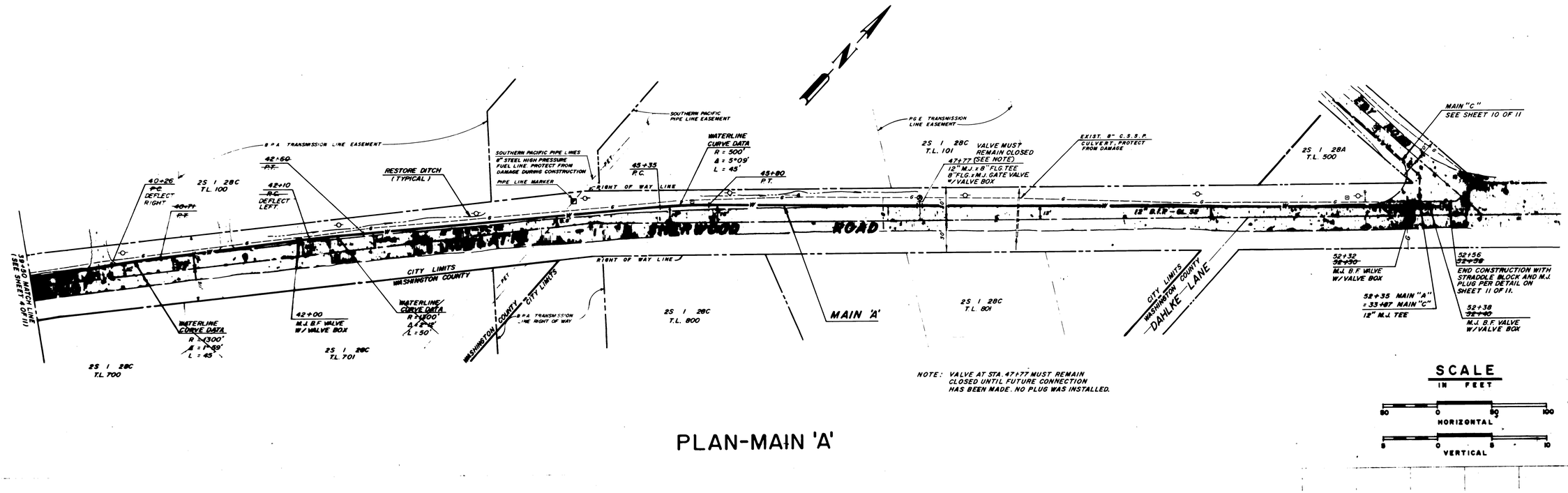
2
11



1	AS BUILT	SEPT. '81	DESIGNED : G.R.A.A.B.	CONSULTING ENGINEERS — LAND SURVEYORS — LAND PLANNERS	PREPARED FOR:	ROCK CREEK WATER & SEWER	PLAN & PROFILE
			DRAWN : D.C.B.	GARY M. BUFORD & ASSOCIATES	CITY OF SHERWOOD	LOCAL IMPROVEMENT DISTRICT	WATERLINE IMPROVEMENT
			DATE : MAR. '81	P.O. BOX 1531 — 416 N. STATE STREET	20 N.W. PARK STREET		
			SCALE : AS SHOWN	LAKE OSWEGO, OREGON 97034	SHERWOOD, OREGON 97140		
	REVISIONS	DATE	REC. NO.				3 / 11

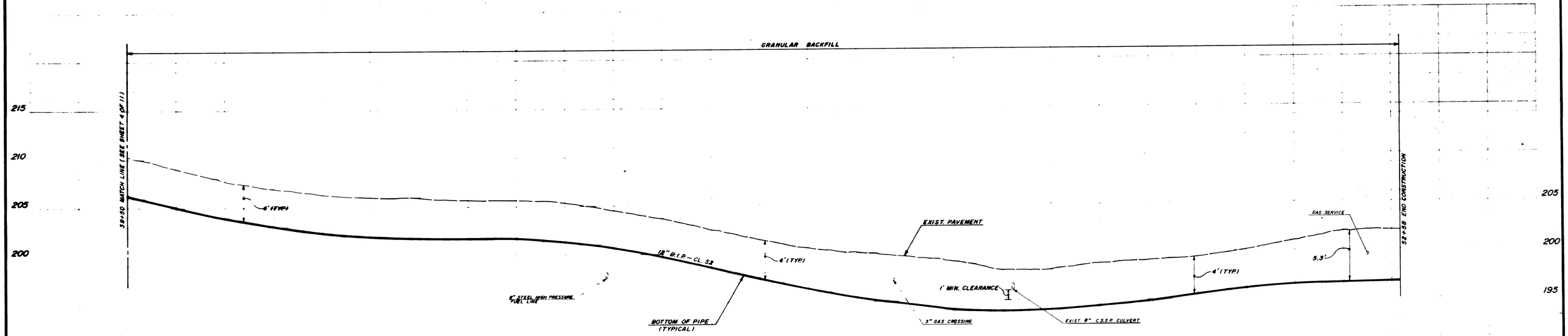


DESIGNED: G.R.A./R.R.	CONSULTING ENGINEERS — LAND SURVEYORS — LAND PLANNERS	PREPARED FOR:	ROCK CREEK WATER & SEWER	PLAN & PROFILE	SHEET 4
DRAWN: D.C.B.	GARY M. BUFORD & ASSOCIATES	CITY OF SHERWOOD	LOCAL IMPROVEMENT DISTRICT	WATERLINE IMPROVEMENT	OF 11
DATE: MARCH '81	P.O. BOX 1631 415 N. STATE STREET	90 N.W. PARK STREET			
SCALE: AS SHOWN	LAKE OSWEGO, OREGON 97034 (503) 636-3611	SHERWOOD, OREGON 97140 (503) 625-5522			
REVISIONS					



NOTE: VALVE AT STA. 47+77 MUST REMAIN CLOSED UNTIL FUTURE CONNECTION HAS BEEN MADE. NO PLUG WAS INSTALLED.

PLAN-MAIN 'A'



PROFILE - MAIN 'A'

39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00 52+00 53+00

NO.	REVISIONS	DATE
1	AS-BUILT	SEPT. '81

DESIGNED: G.R.A./A.R.W.
DRAWN: D.C.B.
DATE: MARCH '81
SCALE: AS SHOWN
REC. NO.: L 506.34

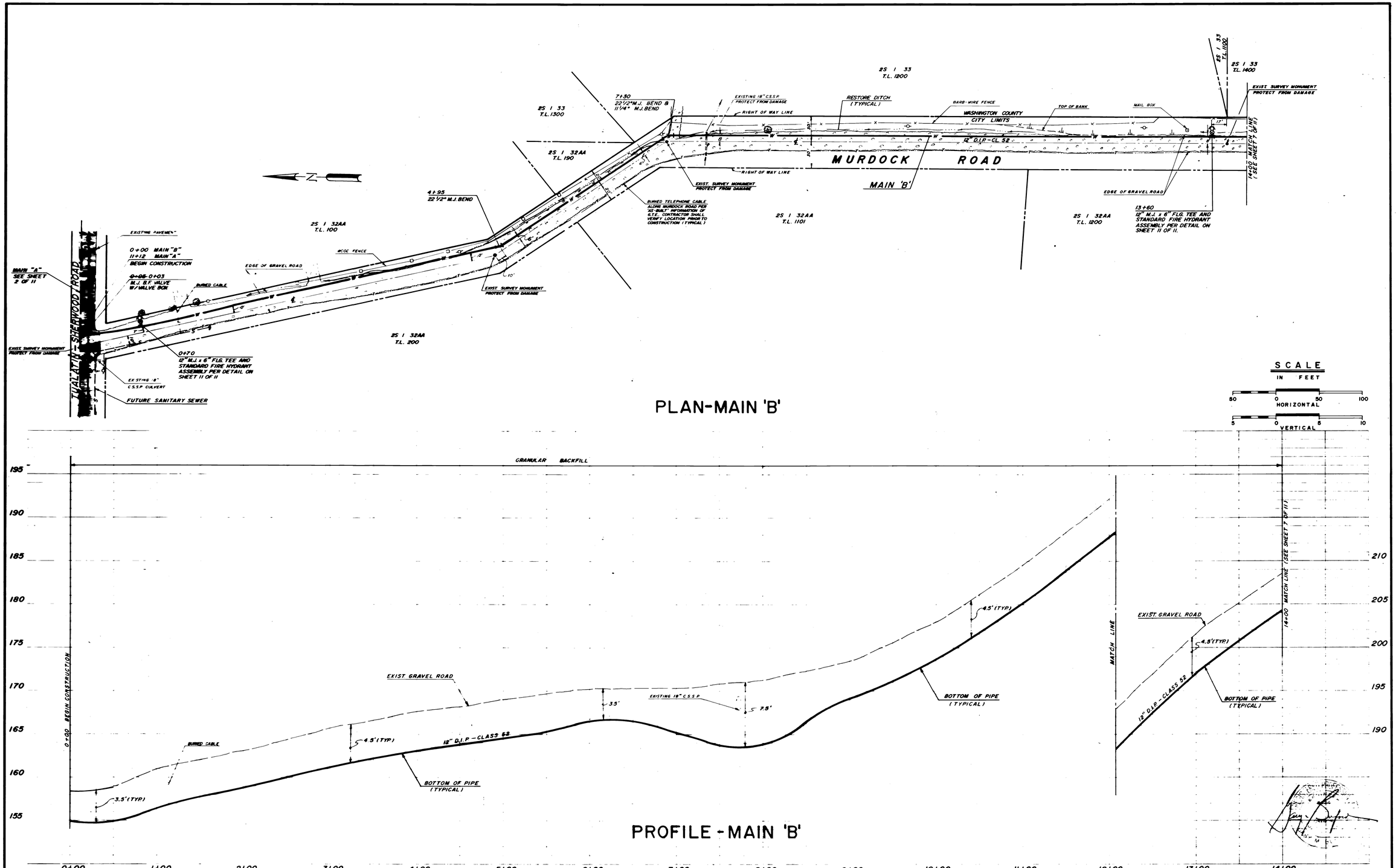
CONSULTING ENGINEERS — LAND SURVEYORS — LAND PLANNERS
GARY M. BUFORD & ASSOCIATES
P.O. BOX 1531
LAKE OSWEGO, OREGON 97034
415 N. STATE STREET
(503) 635-3511

PREPARED FOR:
CITY OF SHERWOOD
90 N.W. PARK STREET
SHERWOOD, OREGON 97140
(503) 625-5522

ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
WATERLINE IMPROVEMENT

SHEET 5 OF 11



NO.	REVISIONS	DATE
1	AS-BUILT	SEPT. '81

DESIGNED : GRA./A.R.W.
DRAWN : L.E.S./D.C.B.
DATE : MARCH, '81
SCALE : AS SHOWN
REC. NO. : L.506.34

CONSULTING ENGINEERS — LAND SURVEYORS — LAND PLANNERS
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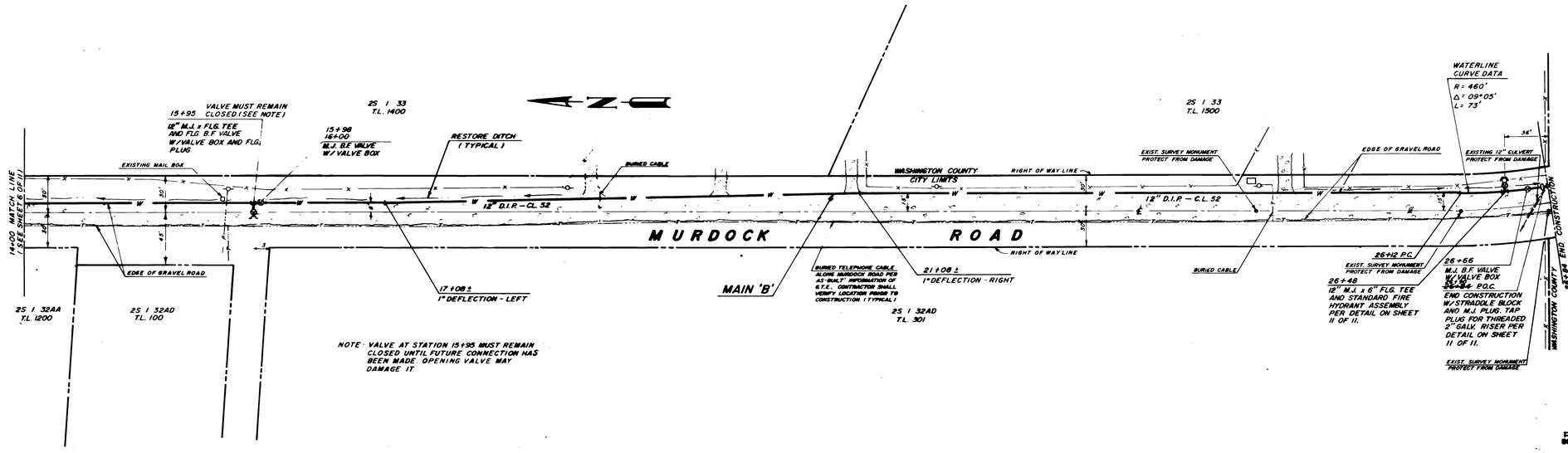
PLAN & PROFILE
WATERLINE IMPROVEMENT

SHEET 6 OF 11

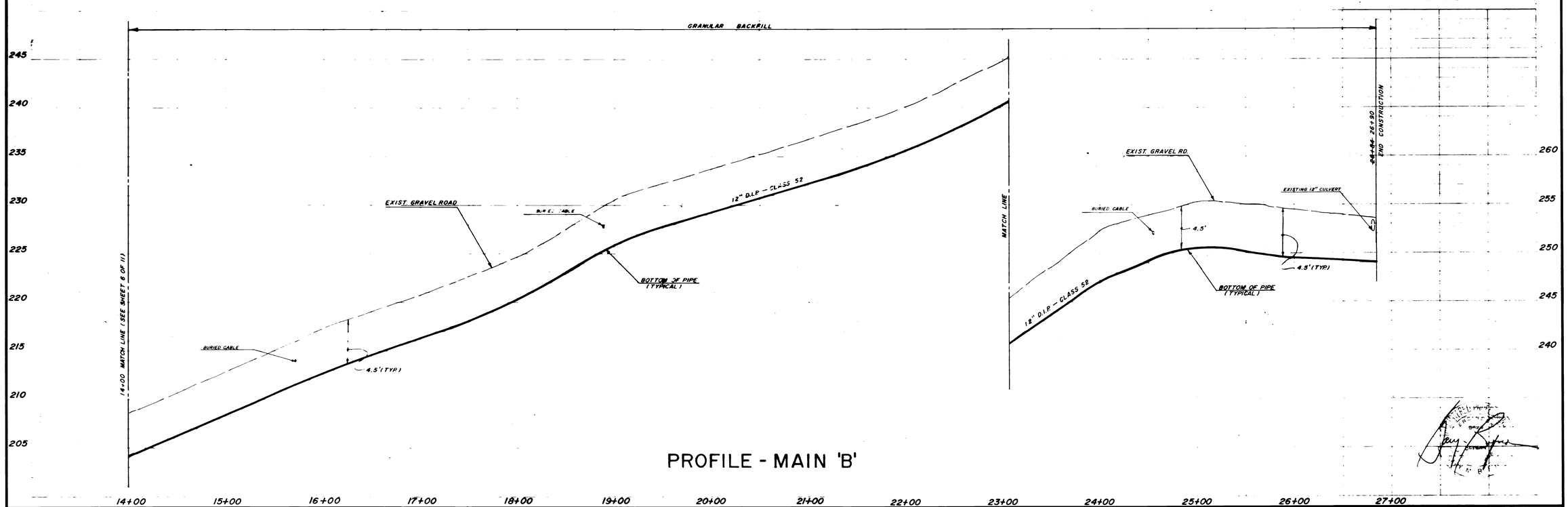


PLAN-MAIN 'B'

SCALE IN FEET

HORIZONTAL: 50 0 50 100

VERTICAL: 5 0 5 10



PROFILE - MAIN 'B'

NO.	REVISIONS	DATE
1	AS - BUILT	SEPT. '81

DESIGNED: G.R.A./A.R.W.
DRAWN: L.E.S./D.C.B.
DATE: MARCH '81
SCALE: AS SHOWN
REC. NO.: L506.34

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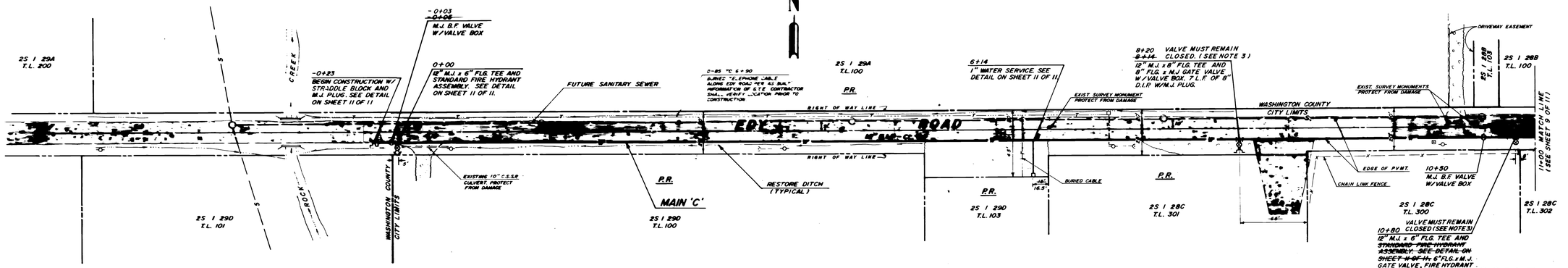
ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
WATERLINE IMPROVEMENT

SHEET 7 OF 11



NOTE:

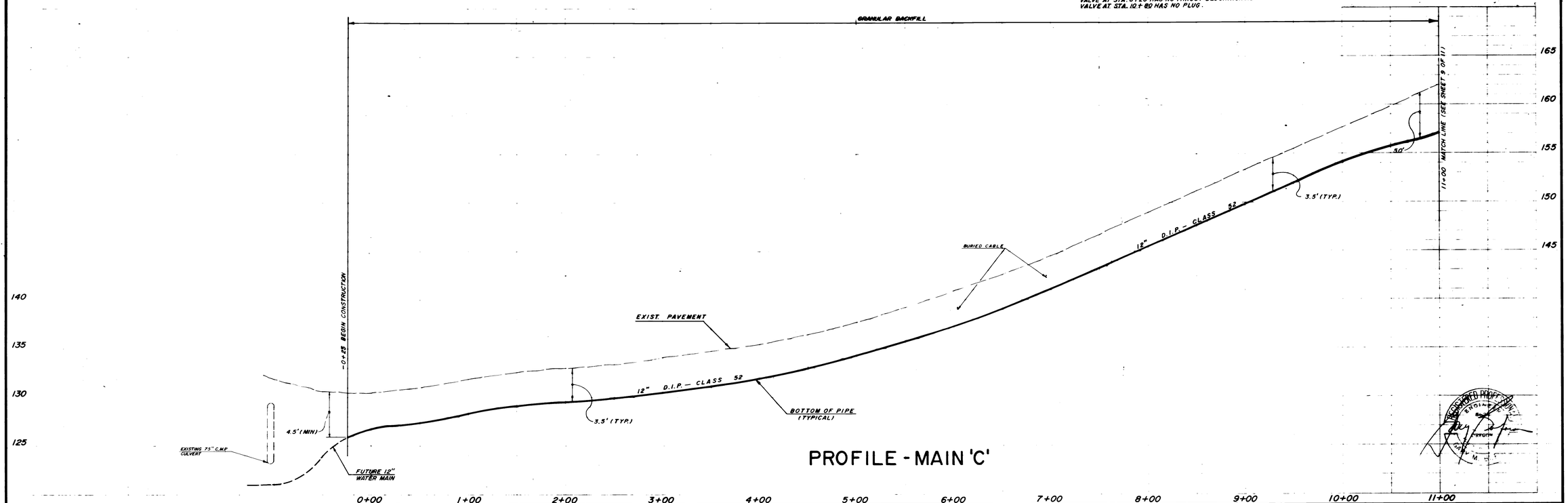
1. P.R. INDICATES PRESSURE REDUCING VALVE REQUIRED ON SERVICE. P.R. VALVES TO BE INSTALLED BY OTHERS.
2. ALL SERVICES WESTERLY OF STA. 9+00 SHALL USE PRESSURE REDUCING VALVES ON CUSTOMER SIDE OF METER.
3. VALVES AT STA. 8+20 & STA. 10+80 MUST REMAIN CLOSED UNTIL FUTURE CONNECTION HAS BEEN MADE. VALVE AT STA. 8+20 HAS NO THRUST BLOCKING AND VALVE AT STA. 10+80 HAS NO PLUG.

SCALE IN FEET

HORIZONTAL: 50 0 50 100

VERTICAL: 5 0 5 10

PLAN-MAIN 'C'



PROFILE - MAIN 'C'

NO.	REVISIONS	DATE
1	AS - BUILT	SEPT. '81

DESIGNED: G.R.A./A.R.W.
DRAWN: R.L.M./D.C.B.
DATE: MARCH '81.
SCALE: AS SHOWN
REC. NO.: L506.34

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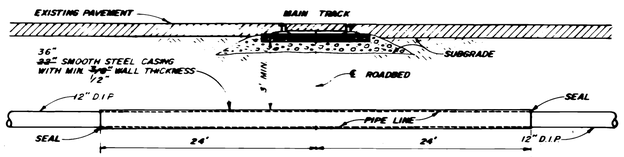
ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
WATERLINE IMPROVEMENT

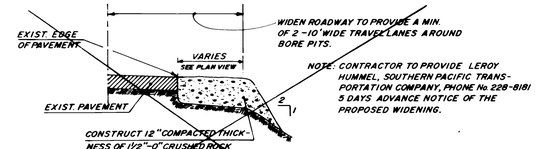
SHEET 8 OF 11



DETAIL - RAILROAD CROSSING

N.T.S.

NOTE: INSTALLATION AND MATERIALS TO CONFORM TO SOUTHERN PACIFIC RAILROAD STANDARD DRAWING C.S. 1741 AND PERMIT SPECIFICATIONS AND REQUIREMENTS.



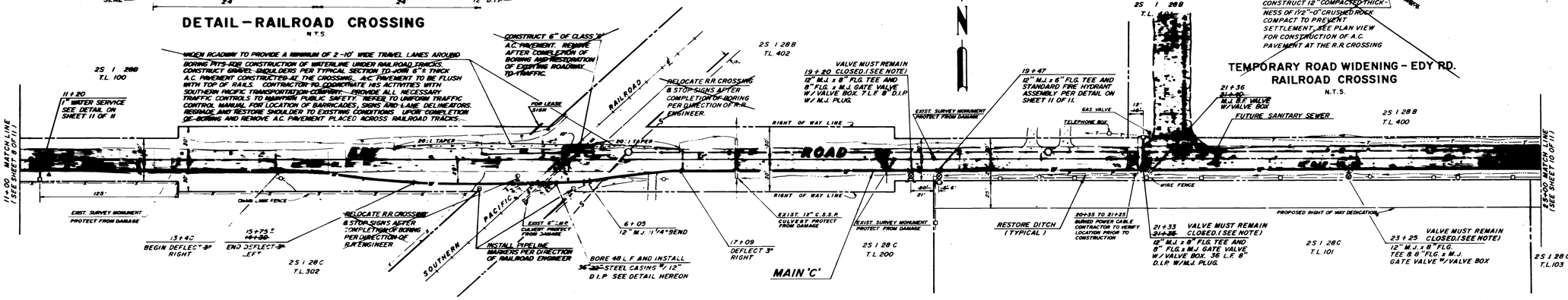
WIDEN ROADWAY TO PROVIDE A MIN. OF 2 -10' WIDE TRAVEL LANES AROUND BORE PITS.

NOTE: CONTRACTOR TO PROVIDE LEROY HUMMEL, SOUTHERN PACIFIC TRANSPORTATION COMPANY, PHONE No. 228-8181 5 DAYS ADVANCE NOTICE OF THE PROPOSED WIDENING.

CONSTRUCT 12" COMPACTED THICKNESS OF 1 1/2"-0" CRUSHED ROCK COMPACT TO PREVENT SETTLEMENT. SEE PLAN VIEW FOR CONSTRUCTION OF A.C. PAVEMENT AT THE R.R. CROSSING

TEMPORARY ROAD WIDENING - EDY RD. RAILROAD CROSSING

N.T.S.



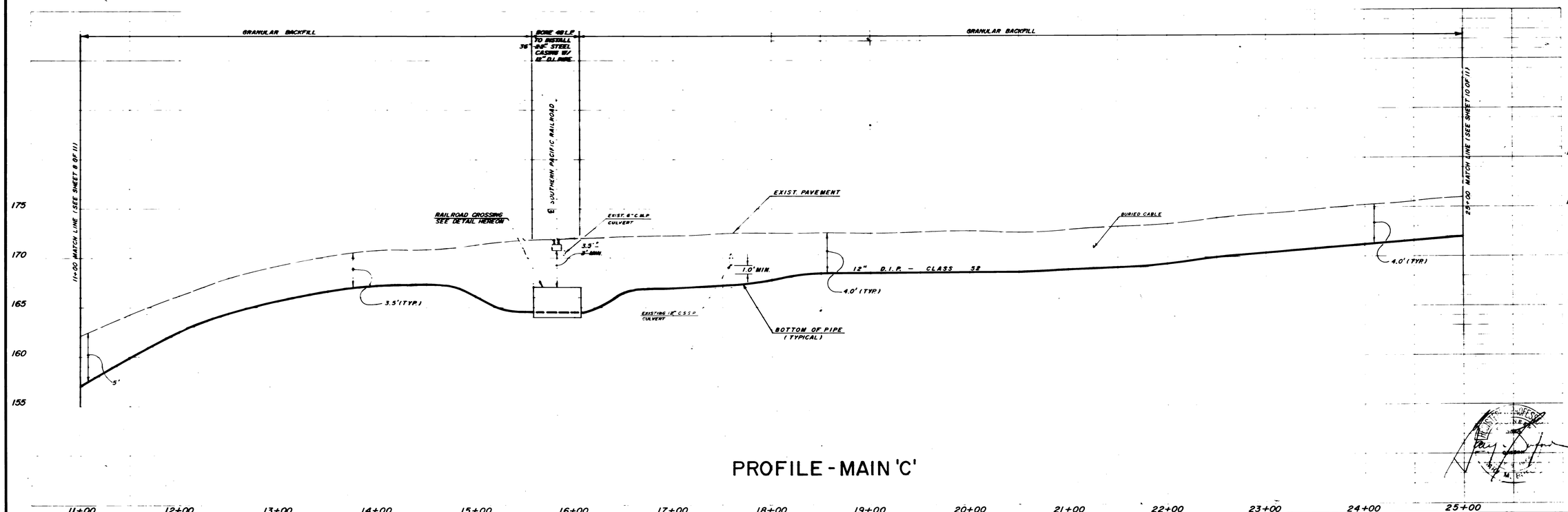
NOTE: VALVES AT STA. 19+20, 21+33 AND STA. 23+25 MUST REMAIN CLOSED UNTIL FUTURE CONNECTIONS HAVE BEEN MADE. VALVES 19+20 AND 21+33 HAVE NO THRUST BLOCKING AND VALVE 19+20 HAS NO PLUG.

SCALE IN FEET

HORIZONTAL: 50 0 50 100

VERTICAL: 5 0 5 10

PLAN-MAIN 'C'



PROFILE - MAIN 'C'

NO.	REVISIONS	DATE
1	AS-BUILT	SEPT. '81

DESIGNED: G.R.A./R.W.K.
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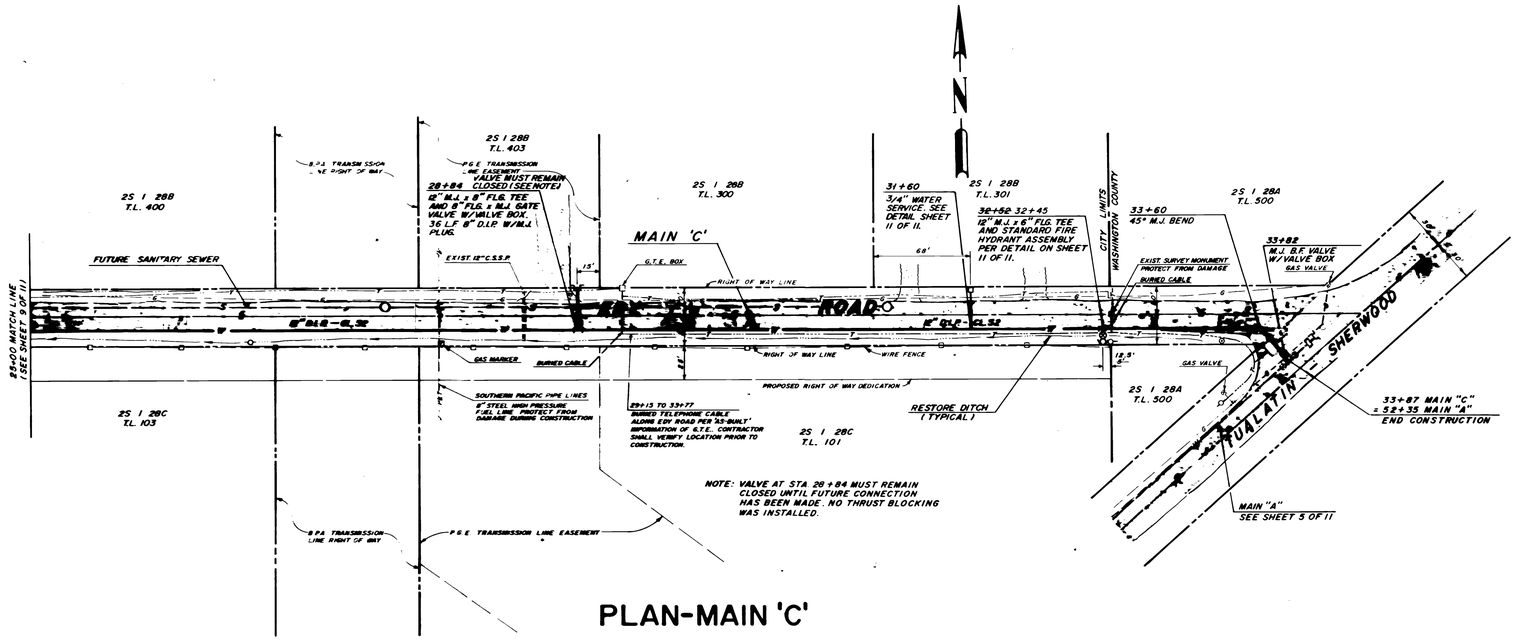
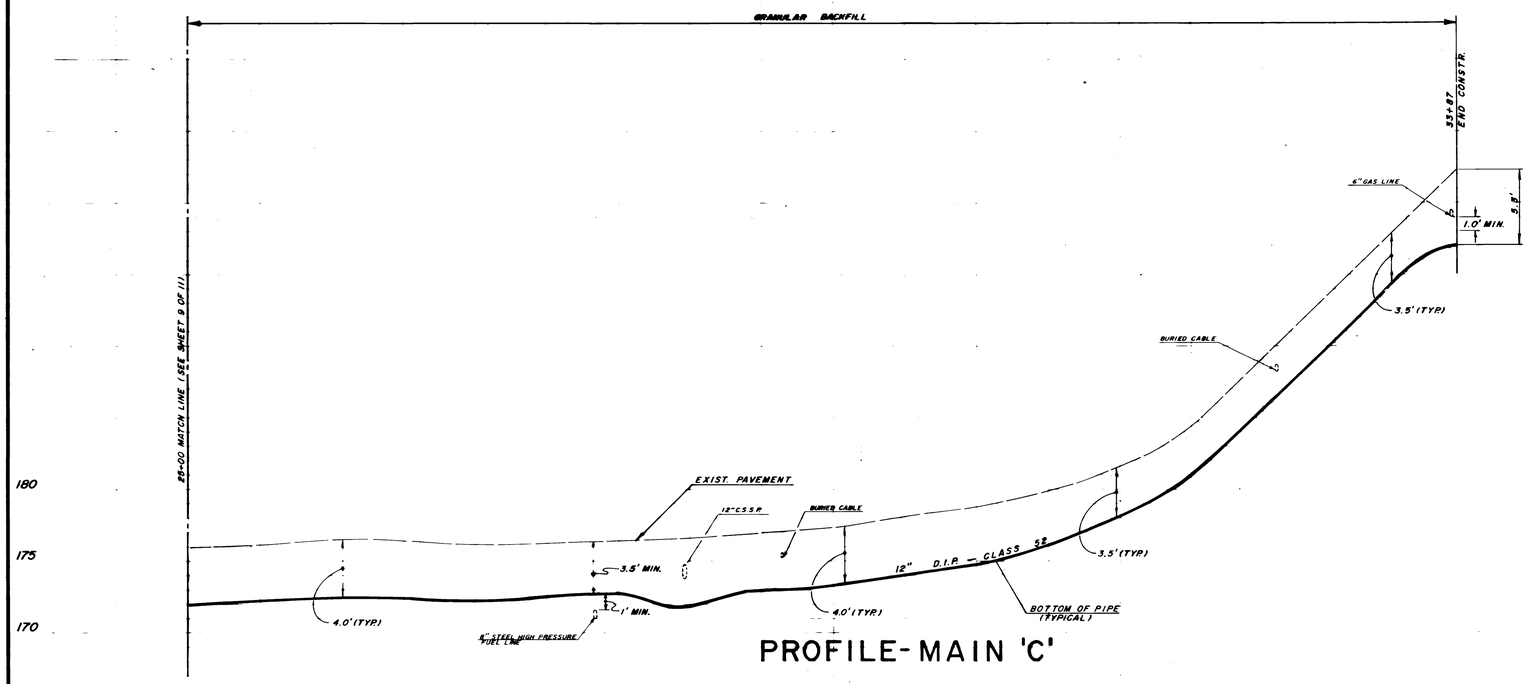
ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

PLAN & PROFILE
WATERLINE IMPROVEMENT

SHEET 9 OF 11



PLAN-MAIN 'C'



PROFILE-MAIN 'C'

SCALE
IN FEET
50 0 50 100
HORIZONTAL
5 0 5 10
VERTICAL

NO.	REVISIONS	DATE	
			DESIGNED : G.R.A./R.W.
			DRAWN : R.L.M./C.B.
			DATE : MARCH '81
1	AS-BUILT	SEPT. '81	SCALE : AS SHOWN
			REC. NO. : L 506.34

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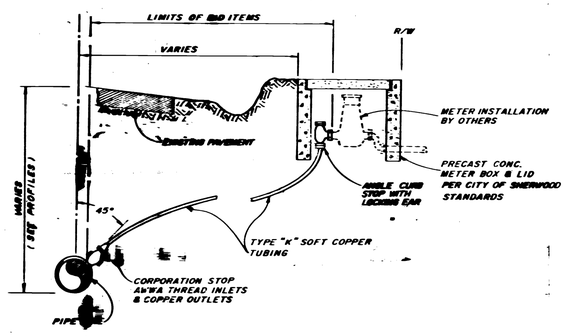
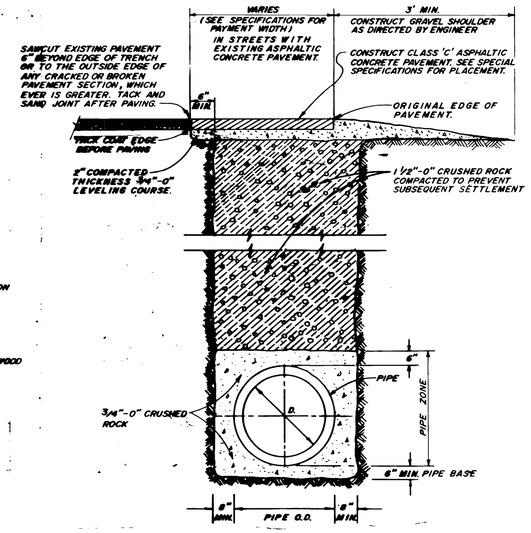
PLAN & PROFILE
WATERLINE IMPROVEMENT

SHEET 10 OF 11



WATER SERVICE CONNECTION DETAIL

N.T.S.

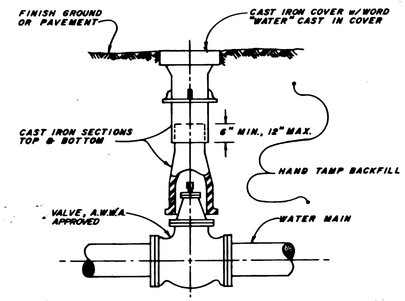


PAVEMENT RECONSTRUCTION TRENCH DETAIL

N.T.S.

NOTE:

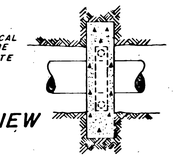
1. MINIMUM COMPACTED THICKNESS OF CLASS 'C' A.C. PAVEMENT ON EDY ROAD IS 3", PLACED IN 2 LIFTS.
2. MINIMUM COMPACTED THICKNESS OF CLASS 'C' A.C. PAVEMENT ON TUALATIN-SHERWOOD ROAD IS 5", PLACED IN 2 LIFTS.



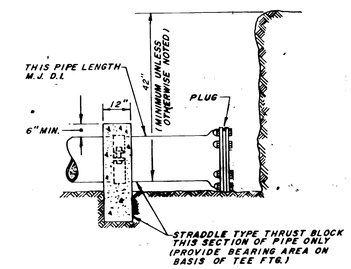
VALVE & VALVE BOX DETAIL

N.T.S.

NOTE: PROVIDE MECHANICAL COLLAR ON D.I. PIPE TO BE ENCASED WITHIN CONCRETE STRADDLE BLOCK.

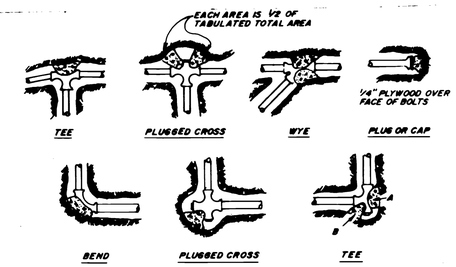


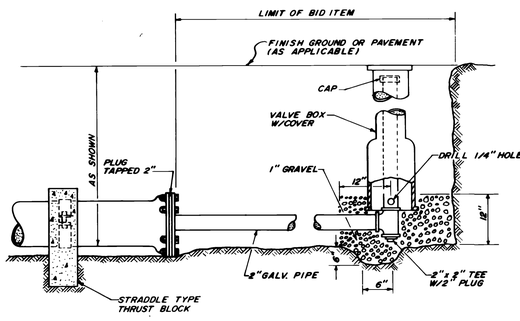
PLAN VIEW



"STRADDLE" TYPE THRUST BLOCK

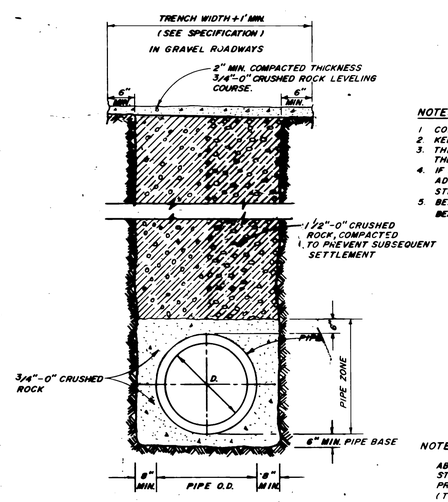
N.T.S.





TEMPORARY BLOW-OFF DETAIL

N.T.S.



STANDARD TRENCH DETAIL

N.T.S.

NOTES:

1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES.
3. THE REQUIRED THRUST BEARING AREAS FOR SPECIAL CONNECTIONS ARE SHOWN ENCIRCLED ON THE PLANS; e.g. (15) INDICATES 15 SQUARE FEET BEARING AREA REQUIRED.
4. IF NOT SHOWN ON PLANS REQUIRED BEARING AREAS AT FITTING SHALL BE AS INDICATED BELOW, ADJUSTED IF NECCESSARY, TO CONFORM TO TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS(ES) STATED IN THE SPECIAL SPECIFICATIONS.
5. BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS STANDARD DETAIL.

BEARING AREA OF THRUST BLOCKS IN SQ.FT.

FITTING SIZE	TEE, WYE, PLUG OR CAP	90° BEND, PLUGGED CROSS	TEE PLUGGED ON RUN A	TEE PLUGGED ON RUN B	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.0	1.4	1.9	1.4	1.0	-	-
6	2.1	3.0	4.3	3.0	1.6	1.0	-
8	3.8	5.3	7.6	5.4	2.9	1.5	1.0
10	5.9	8.4	11.8	8.4	4.6	2.4	1.5
12	8.5	12.0	17.0	12.0	6.6	3.4	1.7
14	11.5	16.3	23.0	16.3	8.9	4.6	2.3
16	15.0	21.3	30.0	21.3	11.6	6.0	3.0
18	19.0	27.0	38.0	27.0	14.6	7.6	3.8
20	23.5	33.3	47.0	33.3	18.1	9.4	4.7
24	34.0	48.0	68.0	48.0	26.2	13.6	6.8

NOTE:

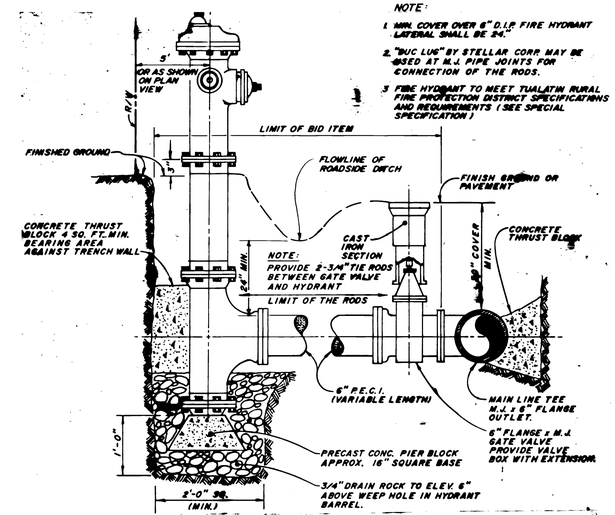
ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 p.s.i. AND AN ALLOWABLE SOIL BEARING STRESS OF 2,000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESSURE / 150) x (2,000/SOIL BEARING STRESS) x (TABLE VALUE).

THRUST BLOCKING DETAILS

N.T.S.

NOTE:

1. MIN. COVER OVER 6" D.I.P. FIRE HYDRANT LATERAL SHALL BE 24".
2. "BUC LUG" BY STELLAR CORP. MAY BE USED AT M.J. PIPE JOINTS FOR CONNECTION OF THE RODS.
3. FIRE HYDRANT TO MEET TUALATIN RURAL FIRE PROTECTION DISTRICT SPECIFICATIONS AND REQUIREMENTS (SEE SPECIAL SPECIFICATION)



FIRE HYDRANT & AUXILIARY GATE VALVE

N.T.S.

NO.	REVISIONS	DATE	REC. NO.
1	AS-BUILT	SEPT. '81	L506.34

DESIGNED : A.R.W.
DRAWN : D.C.B.
DATE : MAR. 81
SCALE : N.T.S.

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ROCK CREEK WATER & SEWER
LOCAL IMPROVEMENT DISTRICT

DETAIL SHEET
WATERLINE IMPROVEMENT

SHEET 11 OF 11