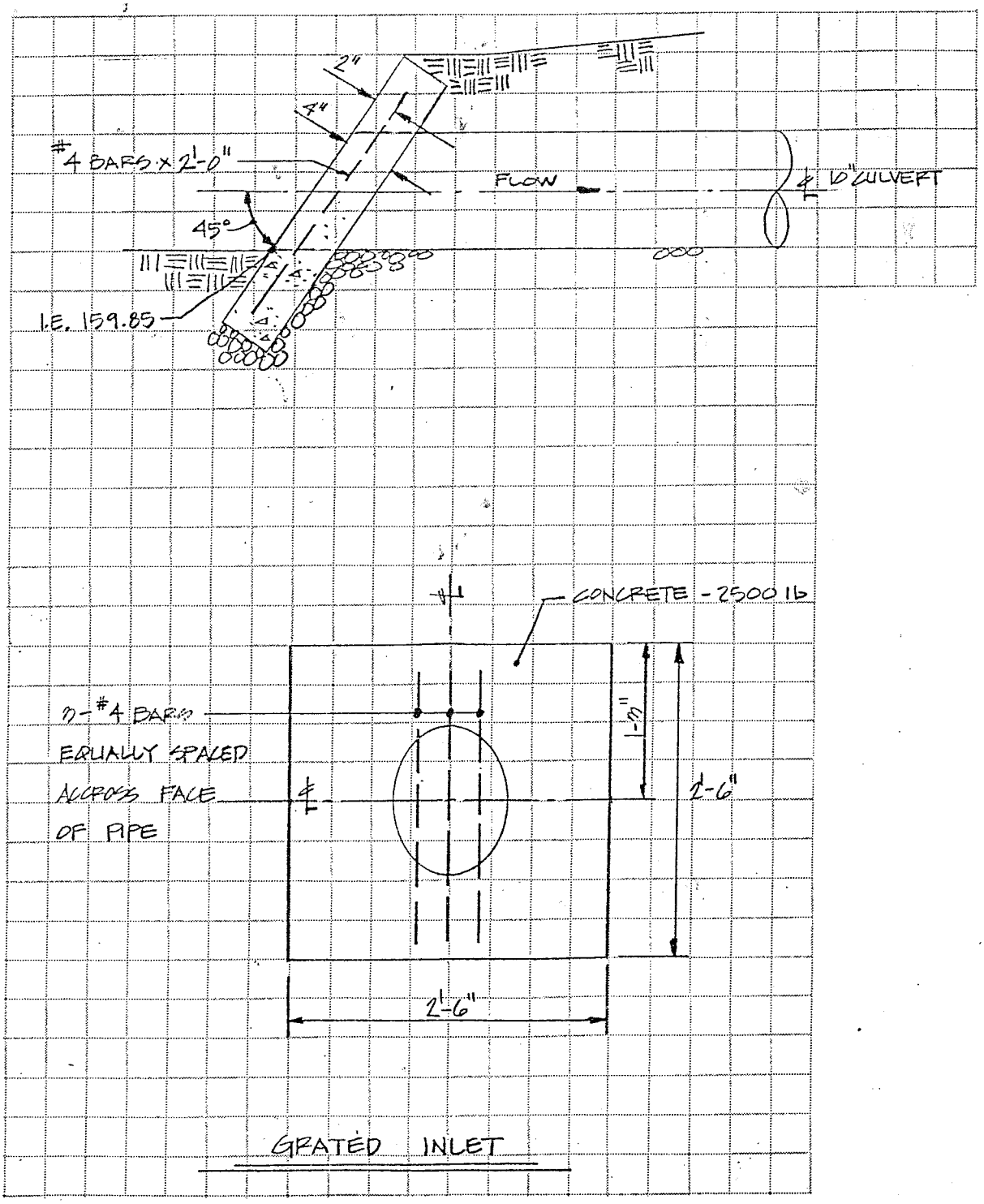


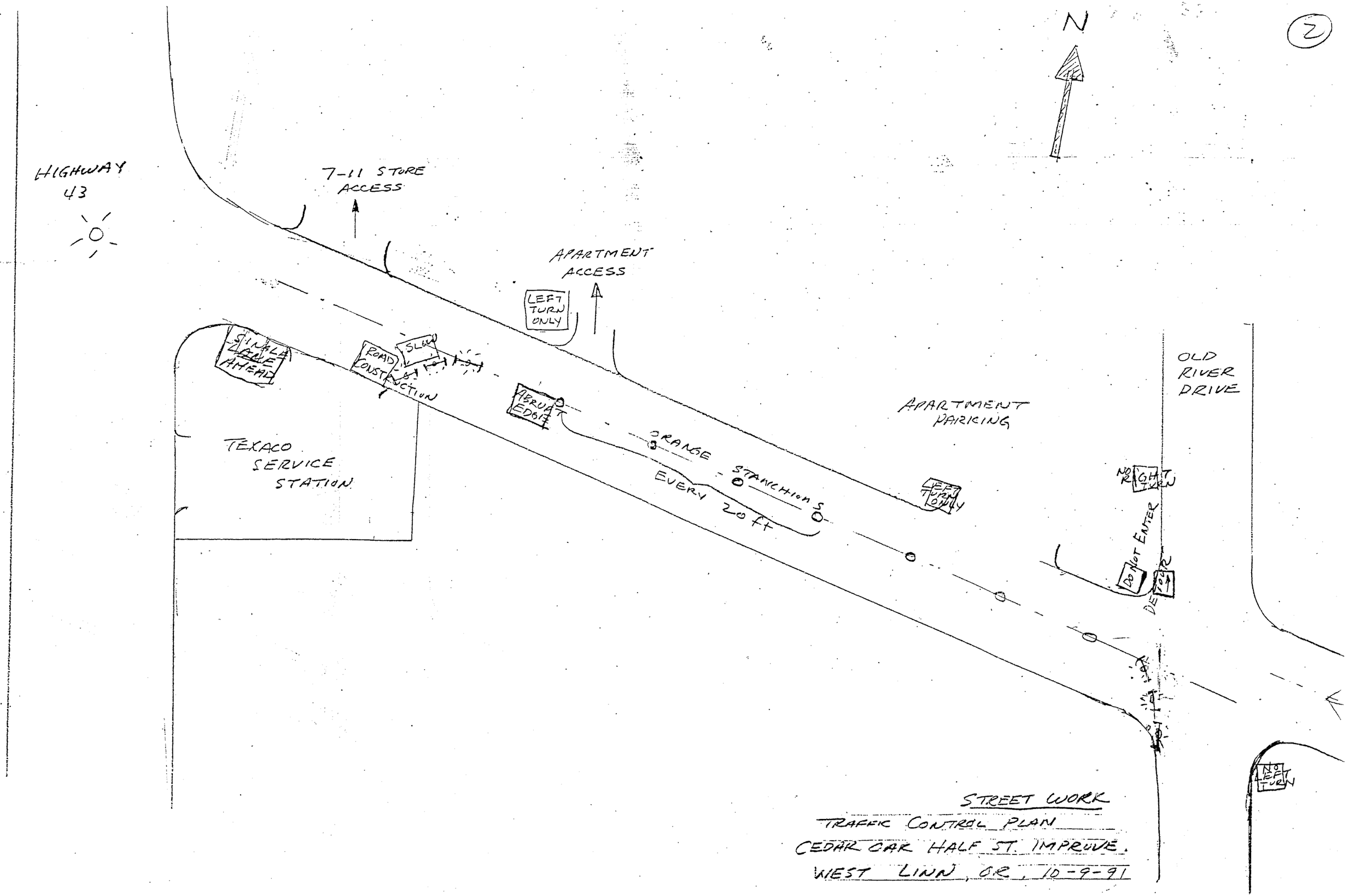
Designed	RWK
Drawn	RWK
Checked	
Approved	
Date	2/25/91
Scale	N.T.S.

KAMPE ASSOCIATES INC
CIVIL ENGINEERS
LAND SURVEYORS
3681 S.W. CARMAN DRIVE
LAKE OSWEGO, OREGON 97035
(503) 635-6291

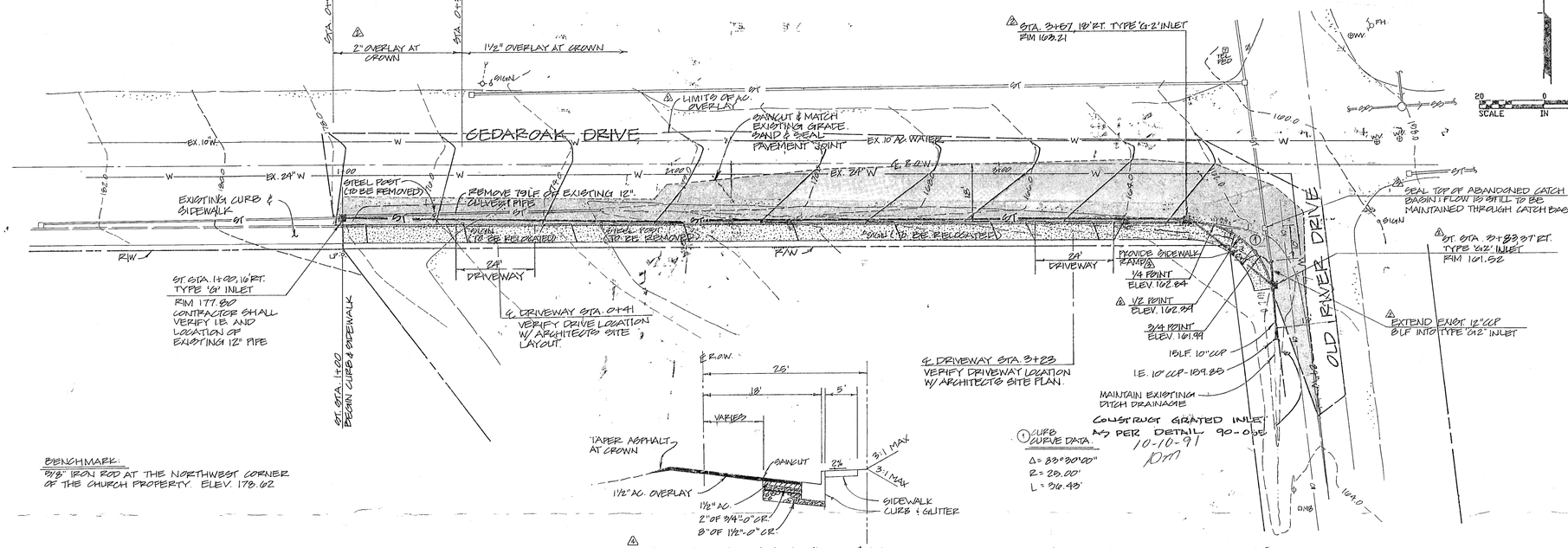
CEDAROAK DRIVE
FRONTAGE IMPROVEMENTS
ADENDUM NO. 1

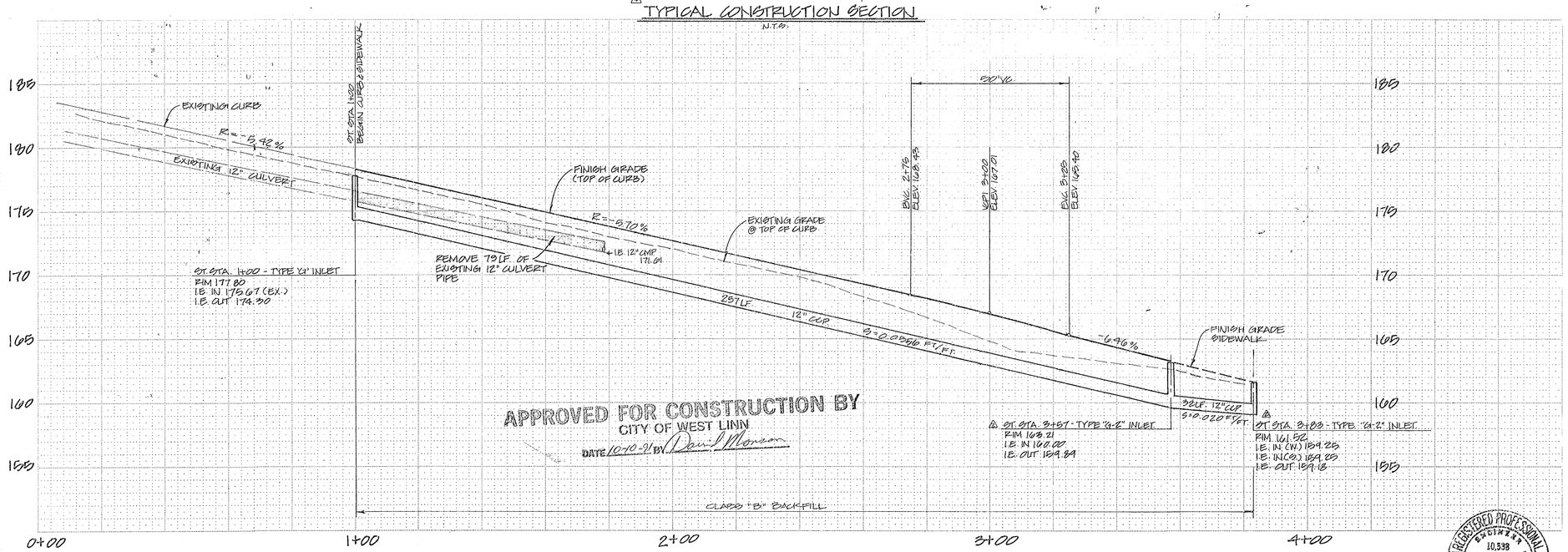
1/1

90-035



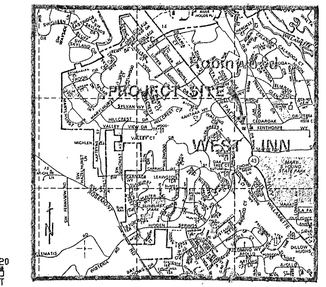
STREET WORK
TRAFFIC CONTROL PLAN
CEDAR OAK HALF ST. IMPROVE.
WEST LINN, OR. 10-9-91





APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN
DATE 10-10-91 BY David Monson

CEDAROAK DRIVE - PROFILE
SCALE: 1" = 20' HORIZ. / 1" = 5' VERT.



VICINITY MAP
NTS

GENERAL NOTES:

1. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE CITY OF WEST LINN PUBLIC WORKS DEPARTMENT AND A.P.W.A. UNLESS OTHERWISE NOTED, THE CITY OF WEST LINN SPECIFICATIONS SHALL BE HEREAFTER CALLED STANDARD SPECIFICATIONS.
2. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL ARRANGE FOR RELOCATION OF ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
3. CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
4. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY THE CONTRACTOR. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST.
5. THE ENGINEER HAS NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM HIS WORK.
6. CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, BRUSH, ROOTS AND OTHER MATERIAL IN THE ROADWAY AND WHERE INDICATED ON THE PLANS. MATERIAL SHALL BE DISPOSED OF IN SUCH A MANNER AS TO MEET LOCAL REGULATIONS.
7. CONTRACTOR SHALL NOTIFY KAMPE ASSOCIATES, INC., AND THE CITY OF WEST LINN 24 HOURS BEFORE STARTING CONSTRUCTION OR RESUMING WORK AFTER SHUTDOWNS, EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS OR HOLIDAYS. CONTRACTOR SHALL NOTIFY KAMPE ASSOCIATES, INC., OF ANY SHUTDOWNS SO AS TO ELIMINATE UNNECESSARY INSPECTION TIME.

CONSTRUCTION NOTES:

1. CONCRETE CULVERT PIPE SHALL BE ASTM C14, "CLASS 3," NONREINFORCED CONCRETE PIPE.
2. TRENCHES WITHIN THE RIGHTS-OF-WAY OR PAVED AREAS SHALL BE BACKFILLED WITH SELECT GRANULAR MATERIAL CONFORMING TO THE STANDARD SPECIFICATIONS.
3. COMPACTION SHALL BE TO 95% OF MAXIMUM RELATIVE DENSITY BY AASHTO T180. CONTRACTOR TO DETERMINE TYPE OF EQUIPMENT AND METHOD TO USE TO ACHIEVE REQUIRED COMPACTION.
4. MATERIAL IN SOFT SPOTS WITHIN THE PAVED AREAS SHALL BE REMOVED TO THE DEPTH REQUIRED TO PROVIDE A FIRM FOUNDATION AND SHALL BE REPLACED WITH CLEAN PIT RUN CRUSHED ROCK. THE ENTIRE SUBGRADE SHALL BE THOROUGHLY COMPACTED AT THE LOWEST MOISTURE CONTENT AT WHICH A HANDFUL OF THE SOIL CAN BE MOLDED BY A FIRM CLOSING OF THE HAND (95% COMPACTION AASHTO T180).
5. CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN SUBGRADE IS COMPLETE AND 24 HOURS PRIOR TO PLACEMENT OF ROCK-BASE MATERIAL AND 24 HOURS PRIOR TO FINAL PAVING FOR AN INSPECTION OF THE WORK. FAILURE TO DO SO WILL MAKE ANY SUBGRADE FAILURE OR DRAINAGE PROBLEMS THE RESPONSIBILITY OF THE CONTRACTOR.
6. ASPHALT CONCRETE PAVEMENT MIX TO BE DESIGNED FROM A MIX FORMULA APPROVED BY O.S.H.D. FOR MATERIAL USED. CONTRACTOR TO PROVIDE ENGINEER WITH CERTIFICATE OF COMPLIANCE FROM ASPHALT PAVEMENT PLANT, UNLESS OTHERWISE INDICATED. ASPHALT MIX CLASSIFICATIONS SHALL BE PER THE PAVEMENT SECTION SHOWN ON THE STANDARD DETAIL SHEET.

REGISTERED PROFESSIONAL ENGINEER 10,538 OREGON JULY 13, 1979 R. GREGG WESTON

PRINTED
SEP 25 1991
KAMPE ASSOC., INC.

NO	BY	DATE	DESCRIPTION
4	AE	5-30-91	REV. SECTION DETAIL, NOTE #1
3	RGW	2-19-91	REV. PER CITY APPROVAL COMMENTS
2	RGW	1-14-91	REV. PER CITY COMMENTS
1	PWK	12-20-90	REMOVED FIRE HYDRANT

REVISIONS

Designed RWK
Drawn RGW
Checked
Approved
Date 10-25-90
Scale AS SHOWN

KAMPE ASSOCIATES INC.
CIVIL ENGINEERS
LAND SURVEYORS
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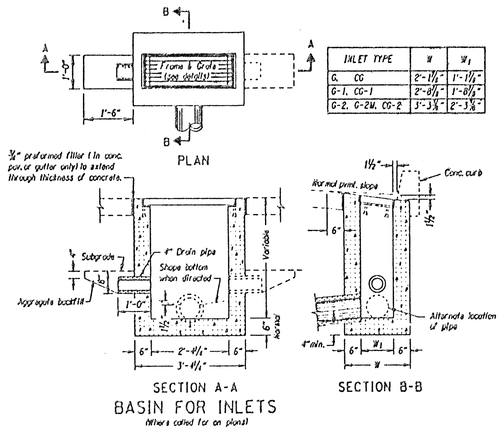
EMMANUEL PRESBYTERIAN CHURCH
19200 WILLAMETTE DRIVE
WEST LINN, OREGON 97068

CEDAROAK DRIVE
FRONTAGE IMPROVEMENTS
PLAN & PROFILE

1/2
90-035

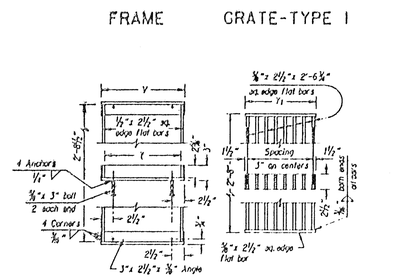
FOR CONSTRUCTION



INLET TYPE	W	W1
G, CG	2'-1 1/4"	1'-1 1/4"
G-1, CG-1	2'-8 1/4"	1'-8 1/4"
G-2, G-2W, CG-2	3'-3 3/8"	2'-3 3/8"

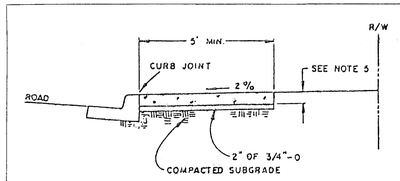
BASIN FOR INLETS
(Where called for on plans)

TYPE 'G' INLET



INLET TYPE	FRAME V	FRAME r	GRATE r1	GRATE NO. OF BARS	GRATE TYPE	GRATE REMARKS
G, CG	1'-3 1/4"	1'-1 1/4"	1'-1 1/2"	8	2	
G-1, CG-1	1'-10 3/4"	1'-9 3/4"	1'-9"	12	2	
G-2, CG-2	2'-4 1/4"	2'-1 3/8"	1'-1 1/2"	8	2	2-Grates
G-2W, G-2WA, D	2'-4 1/4"	2'-3 3/8"	2'-3"	9	1	

INLET FRAME & GRATE

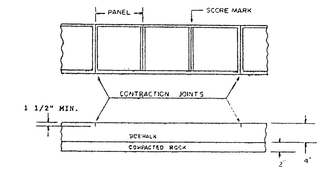


SIDEWALK ADJACENT TO CURB

1. Concrete shall be 3000PSI at 28 days, 6 sack mix, slump range of 1 1/2" to 3".
2. Panel lengths shall be equal to the sidewalk width, but may be adjusted with the City Engineers approval.
3. Contraction joints (1 1/2" deep) shall be placed every third panel, with a max. spacing of 15 feet.

   Joints shall also be placed at the sides of driveway approaches, utility vaults, and wheelchair ramps.
4. A curing compound shall be used. White reflective sheeting shall be used in case of rain.
5. For sidewalks adjacent to the curb & poured at the same time as the curb, the joint between then shall be a troweled joint with a min. 1/2" radius.
6. The sidewalk shall have a min. thickness of 6" if mountable curb is used or if the sidewalk is intended as a portion of the driveway. Otherwise, the sidewalk shall have a min. thickness of 4".
7. Drain blockouts in the curb shall be extended to the back of the sidewalk with a 3" dia. plastic pipe at a 2% slope. A contraction joint shall be placed over the pipe.

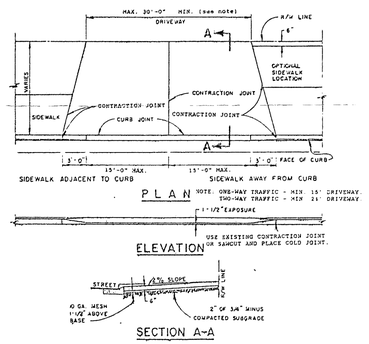
CONCRETE SIDEWALK



NOTES

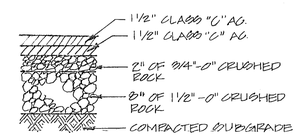
1. EXPANSION JOINTS SHALL NOT BE USED.
2. 1 1/2" MIN. DEEP CONTRACTION JOINTS SHALL BE PLACED AT SIDES OF DRIVEWAY APPROACHES, UTILITY VAULTS, WHEEL-CHAIR RAMPS, & AT TRANSVERSE SPACING NOT TO EXCEED 15 LF.
3. CONTRACTION JOINTS SHALL MATCH THE EXISTING CURB JOINTS & TRAVEL THRU FULL WIDTH OF SIDEWALK
4. PANEL LENGHTS SHALL BE EQUAL TO THE SIDEWALK WIDTH, BUT MAY BE ADJUSTED WITH THE CITY INSPECTORS APPROVAL.
5. SCORE MARKS SHALL BE PLACED PRIOR TO EDGING & BE REMOVED AT SIDES BY THE EDGING.

CONCRETE SIDEWALK JOINT DETAILS

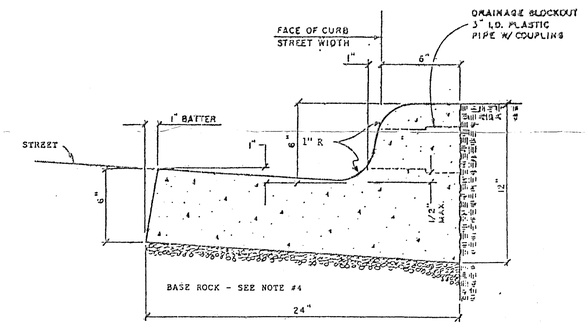


1. CONCRETE SHALL HAVE A MINIMUM BREAKING STRENGTH OF 3000 PSI AFTER 28 DAYS, 6 SACK MIX.
2. CURB JOINT SHALL BE A TROWELED JOINT WITH A MIN. 1/2" RADIUS ALONG BACK OF CURB.
3. DRIVEWAY SHALL BE A MINIMUM 6" THICK.

COMMERCIAL DRIVEWAY



PAVEMENT SECTION



1. When used along medians, gutters may be reduced with prior approval from the City Engineer.
2. Concrete shall have a breaking strength of 3000 PSI after 28 days.
3. CONTRACTION JOINTS

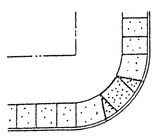
   A. To be provided:
      1) at each point of tangency of the curb.
      2) at each cold joint.
      3) at each side of inlet structures.
      4) at both sided of an approach.

   B. Spacing to be not more than 15 feet.

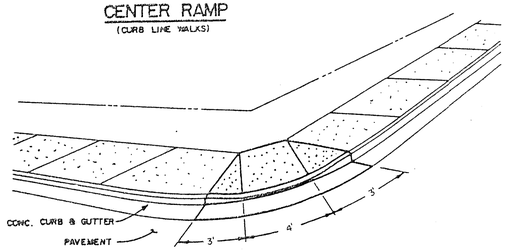
   C. The depth of the joint shall be at least 1 1/2".
4. Base rock - 1 1/2" minus, 95% compaction. Rock shall be to subgrade of street structure or 4" in depth, whichever is greater.
5. Drainage block - 3" dia. plastic pipe.

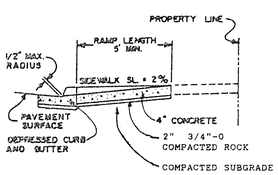
   A. Drainage access through existing curbs shall be by the following:
      1) core drilling.
      2) vertical saw-cut of curb 18" each side of drain & repoured to full depth of curb.

CURB & GUTTER



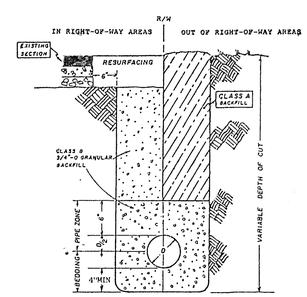
CENTER RAMP
(CURB LINE WALKS)





1. Ramp width shall be as shown hereon unless otherwise approved by the City Engineer.
2. Concrete shall be 3000 PSI at 28 days, 6 sack mix, slump range 1½" to 3".

SIDEWALK RAMP



PIPE BEDDING & BACKFILL

NO	BY	DATE	DESCRIPTION
3	JRC	2-19-91	REV. SIDEWALK RAMP DETAIL
2	JRC	1-14-91	REV. PER CITY COMMENTS
1	PWP	12-20-90	REMOVED FIRE HYDRANT DETAIL

REVISIONS

Designed PWP
Drawn JRC
Checked
Approved
Date 12-25-90
Scale NTS

KAMPE ASSOCIATES INC.
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FRONTAGE IMPROVEMENTS
DETAILS

2

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FOR CONSTRUCTION