

84-005  
RD & STN. PLAN  
MILL CREEK S.

LEGEND

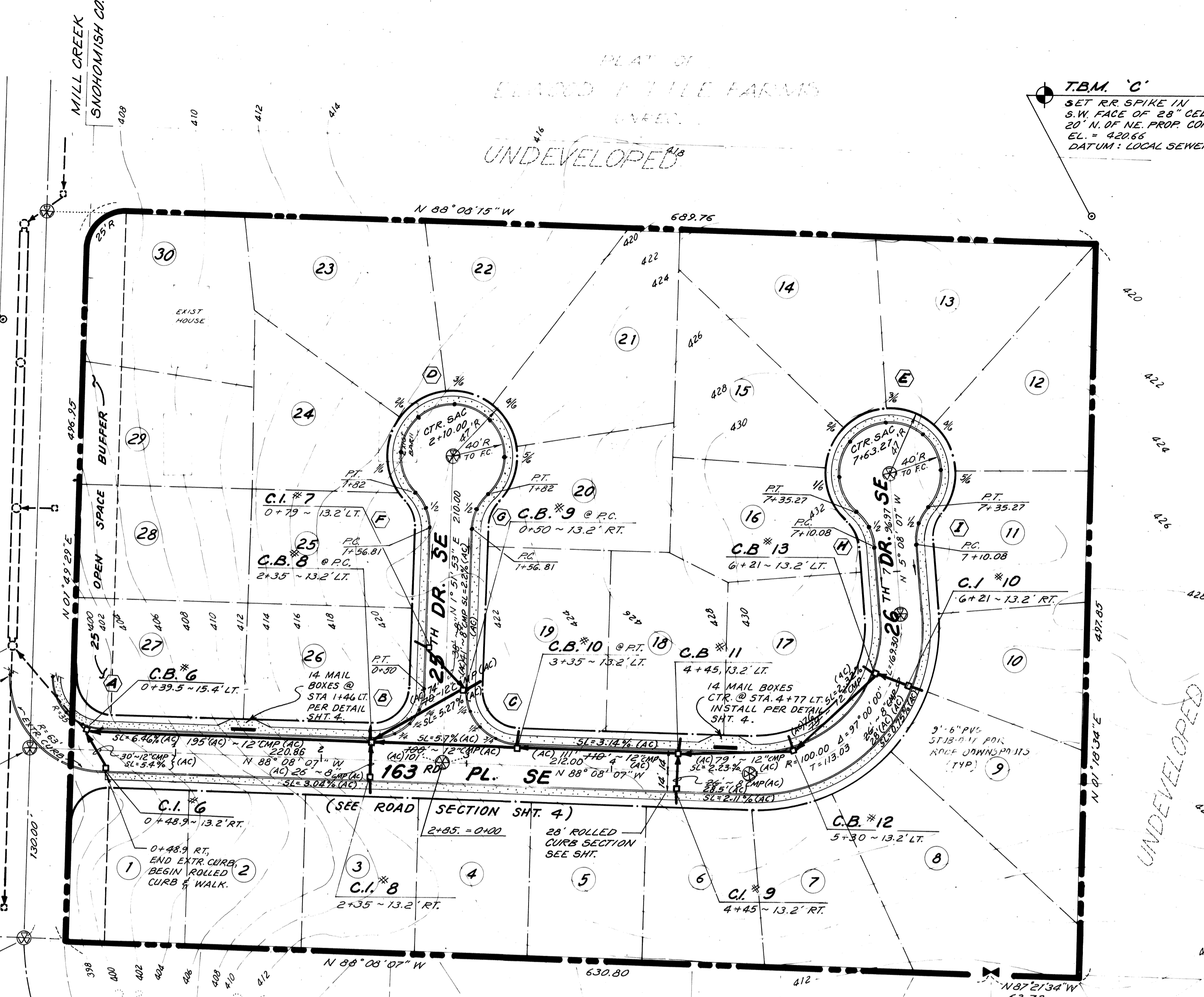
CONC. MON. W/BRASS CAP IN CASE TO BE SET

T.B.M. 'A'  
SET RR SPIKE IN N. FACE OF P. POLE #31  
E.L. = 4205.83  
DATUM: LOCAL SEWER

UNDEVELOPED  
CITY OF MILL CREEK

MILL CREEK  
SNOHOMISH COUNTY  
0+00 25TH AVE

T.B.M. 'B'  
N. RIM BAN. SEW. MH.  
E.L. = 398.92  
DATUM: LOCAL SEWER



T.B.M. 'C'  
SET RR SPIKE IN S.W. FACE OF 28' CEDAR  
20' N. OF N.E. PROP. COR.  
E.L. = 4206.66  
DATUM: LOCAL SEWER

SCALE 1" = 50'

GENERAL NOTES (CONTINUED)

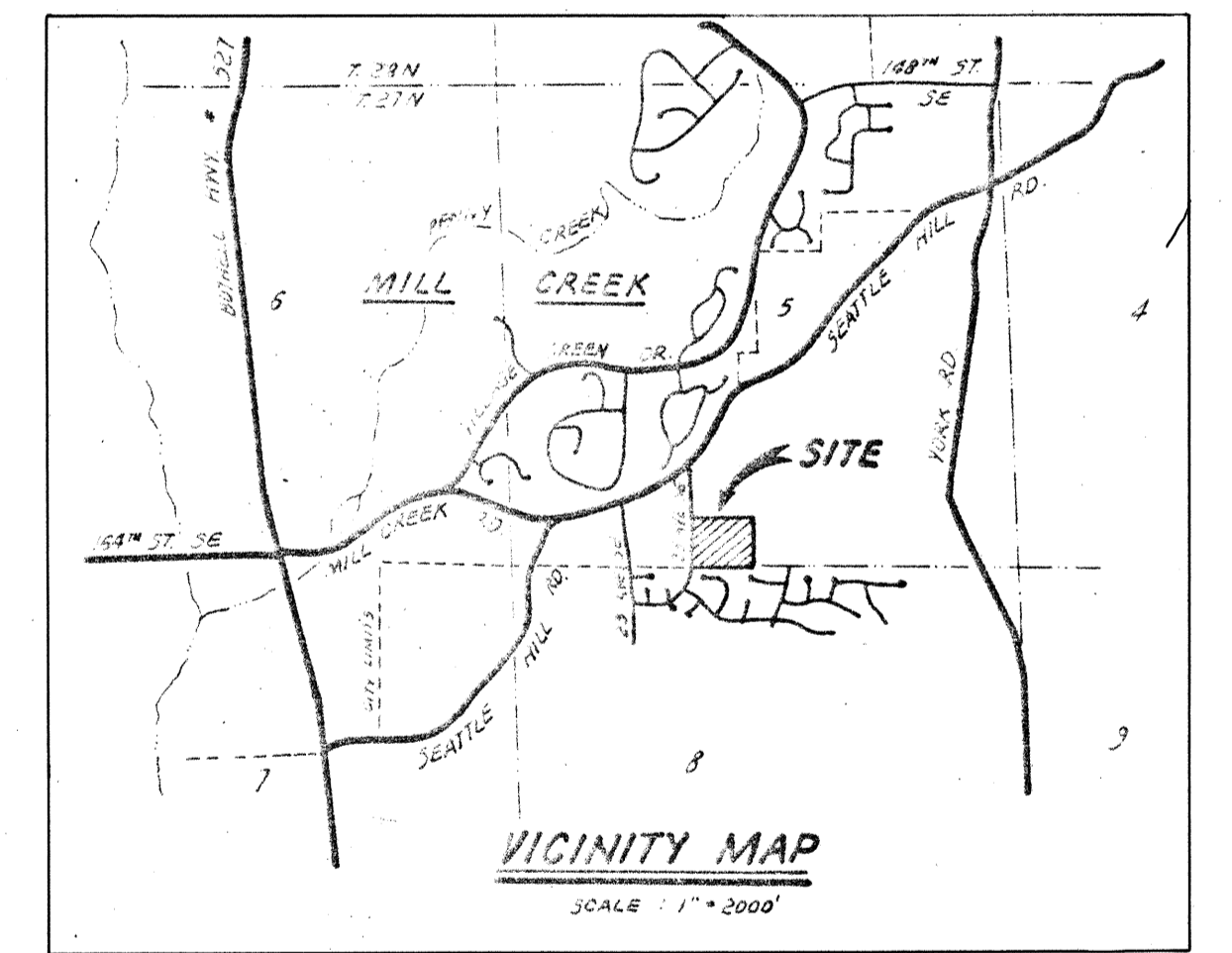
All work and materials shall be in accordance with Snohomish County...  
All work within the site and county right-of-way shall be subject to the inspection of the county engineer or his designated representative.  
The temporary erosion/sedimentation control facility shall be constructed prior to any grading or extensive land clearing in accordance with the approved temporary erosion/sedimentation control plan. These facilities must be satisfactorily maintained until construction and landscaping is completed and the potential for on-site erosion has passed.  
Unless otherwise noted all storm sewer pipe shall be concrete (CP) nonreinforced, ASTM C-14 (24" diameter and larger to be reinforced, ASTM C-70), or corrugated metal (CMP). CMP to be galvanized steel with treatment 1 asphalt coating or better, or corrugated aluminum pipe or ASHUTO H274-70 aluminum steel. All pipes shall have rubber gaskets.  
CP indicates concrete pipe will be required. CMP indicates corrugated metal pipe may be used instead of concrete pipe.  
Areas to be rough-graded with finish grading to follow near project completion are to be seeded with annual, perennial or hybrid ryegrass. This includes perimeter dikes and the sediment basin embankment. HYDRO-SEED preferred.  
Immediately following finish grading, permanent vegetation (consisting of rapid, persistent and legume) will be applied. (Minimum 80% per acre) This is to include the following:  
20% Annual, perennial or hybrid ryegrass  
40% Creeping Red Fescue  
40% White Clover  
HYDRO-SEED preferred.  
FERTILIZER: Shall be applied at 400# per acre of 10-20-20 (10 pounds per 1000 square feet) or equivalent.  
PREPARATION OF SURFACE: All areas to be seeded shall be cultivated to the satisfaction of the county inspector. This may be accomplished by discing, raking, harrowing or other acceptable means.

PIPE SPECIFICATIONS table with columns for Gauge, Pipe, Arch, Band Size. Includes rows for 16, 14, 12 inch pipes and 10, 12, 14 inch arches.

All non-perforated metal pipe shall have neoprene gaskets at the joints.  
Backfill trench of new utilities shall be compact to 95% relative compaction under roadway and 90% relative compaction off roadway, as specified in Section 2-03.3(14)D and Section 2-03.3(14)B.  
Prior to sidewalk construction, the County Inspector will evaluate individual lot drainages and direct the installation of catch basin stubouts and/or behind sidewalk french drains as required. Stubouts shall be marked with a 'C'. Locations of these installations shall be placed on the as-built construction plans and submitted to the County.  
Storm water retention/detention facilities must be constructed and maintained in accordance with Snohomish County requirements.  
Provide and maintain the temporary sedimentation collection facilities to insure sediment laden waters does not enter the natural drainage system.  
All disturbed areas such as retention facilities, roadway back-slopes, etc. shall be seeded with a perennial ground cover grass to minimize erosion. Grass seeding will be done using an approved HYDROSEEDER or as otherwise approved by Snohomish County.  
All earth work shall be performed in accordance with county standards. Pre-construction soils investigation may be required to evaluate soils stability.  
If cut and fill slopes exceed a maximum of two feet horizontal to one foot vertical, a rock or concrete retaining wall will be required. All rock retaining walls are to follow county specifications and to be designed and certified by a civil engineer experienced in soils mechanics.  
Vegetation shall be established on areas disturbed or on areas of construction as necessary to minimize erosion.  
Stockpiles are to be located in safe areas and adequately protected by temporary seeding and mulching. HYDRO-SEED preferred.

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INDEX table with columns SHT. NO. and DESCRIPTION. Lists sheets 1 through 5 for plat, road, storm profiles, plan & profile, details, and temp. erosion-sedimentation control plan.



CURB DATA - TO BACK OF CURB - TOP OF CURB

Table of curb data with columns A through I, containing curve information such as angle, radius, length, and stationing.

CONSTRUCTION SCHEDULE

- 1) INSTALL T.E.S.C.P. (SEE SHT. 5)
2) CLEARING & GRADING (SEE SHT. 5)
3) SEWER AND WATER MAIN (A.W.D. PLANS)
4) STORM DRAINAGE FACILITIES
5) CURBS AND SIDEWALKS
6) PAVE STREETS

WE HEREBY CERTIFY THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN ON THESE AS-BUILT PLANS.

PROJECT MANAGER OR SURVEYOR
DEVELOPER

APPROVED FOR CONSTRUCTION DATE: 4/23/87

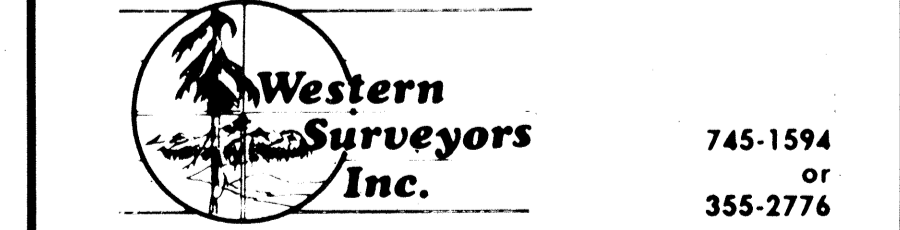
MAILBOX LOCATIONS APPROVED BY: MICHAEL MAHER DATE: FEB. 27, 1987

NOTE: SEE SHEETS 2 & 3 FOR ROAD & STORM AS-CONSTRUCTED DATA.

"AS-BUILT"

ROAD & STORM PLAN

FOR: MILL CREEK SOUTH
DEVELOPER: KEN LONG & DICK SCHMIDT
13322 HWY. 99 SOUTH EVERETT, WA 98204



LAND USE CONSULTANTS
CIVIL ENGINEERS & LAND SURVEYORS
13322 Highway 99 South • Everett, WA 98204 • (206) 745-1594

Table with columns: NO, REVISION, DATE, BY. Includes entries for RAM and EMB.

84-005  
RD 1 STM. PLN.  
MILL CREEK S.

LEGEND

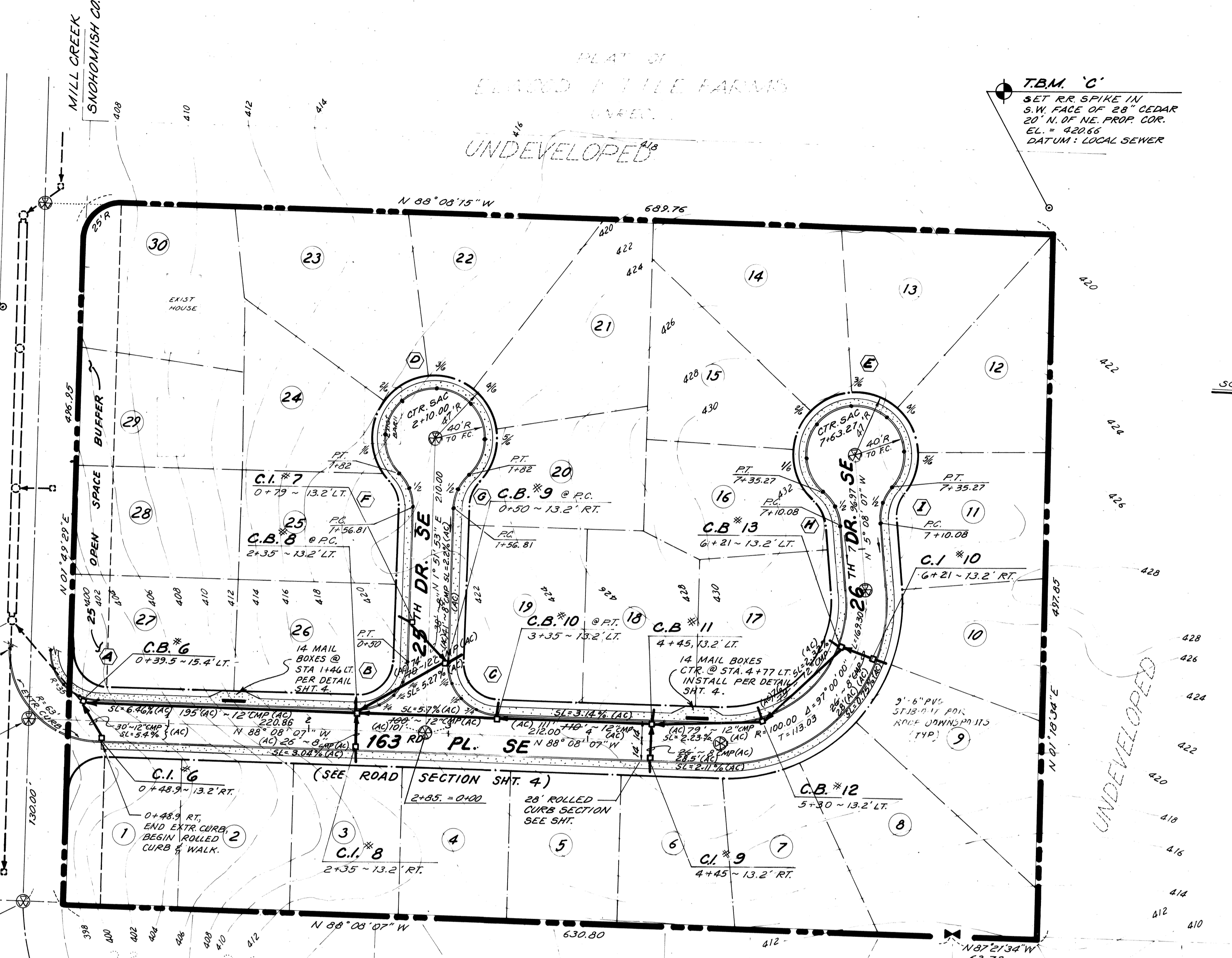
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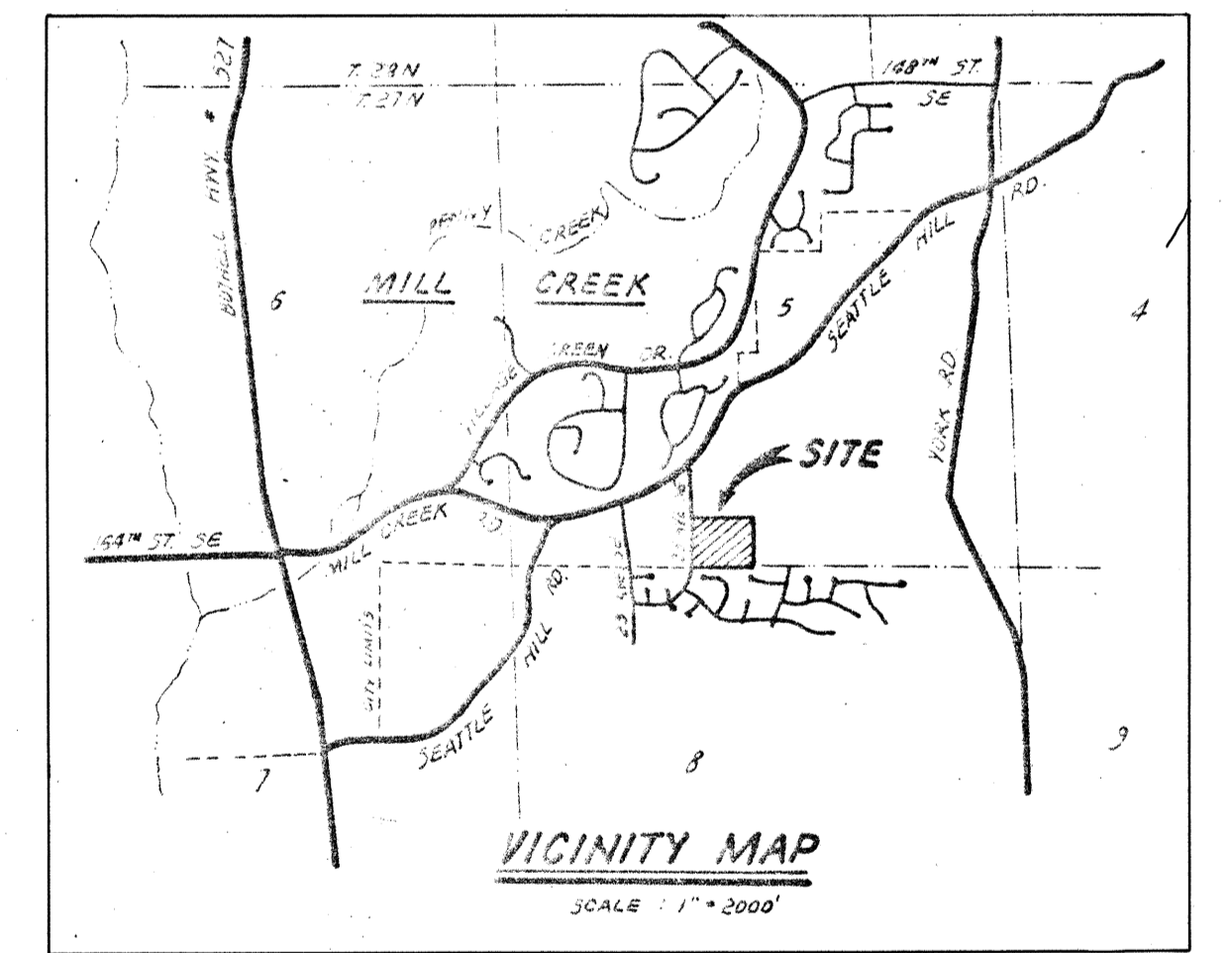
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WE HEREBY CERTIFY THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN ON THESE AS-BUILT PLANS.

PROJECT MANAGER OR SURVEYOR
DEVELOPER

APPROVED FOR CONSTRUCTION G.E. WEED, DIRECTOR DATE: 4/23/87 SNO. CO. DEPT. OF PUBLIC WORKS

MAILBOX LOCATIONS APPROVED BY: MICHAEL MAHER DATE: FEB. 27, 1987 SUPERINTENDENT POSTAL OPERATIONS, BOTHELL

NOTE: SEE SHEETS 2 & 3 FOR ROAD & STORM AS-CONSTRUCTED DATA.

"AS-BUILT"

ROAD & STORM PLAN

FOR: MILL CREEK SOUTH
DEVELOPER: KEN LONG & DICK SCHMIDT
13322 HWY. 99 SOUTH EVERETT, WA 98204 PHONE (206) 745-1594

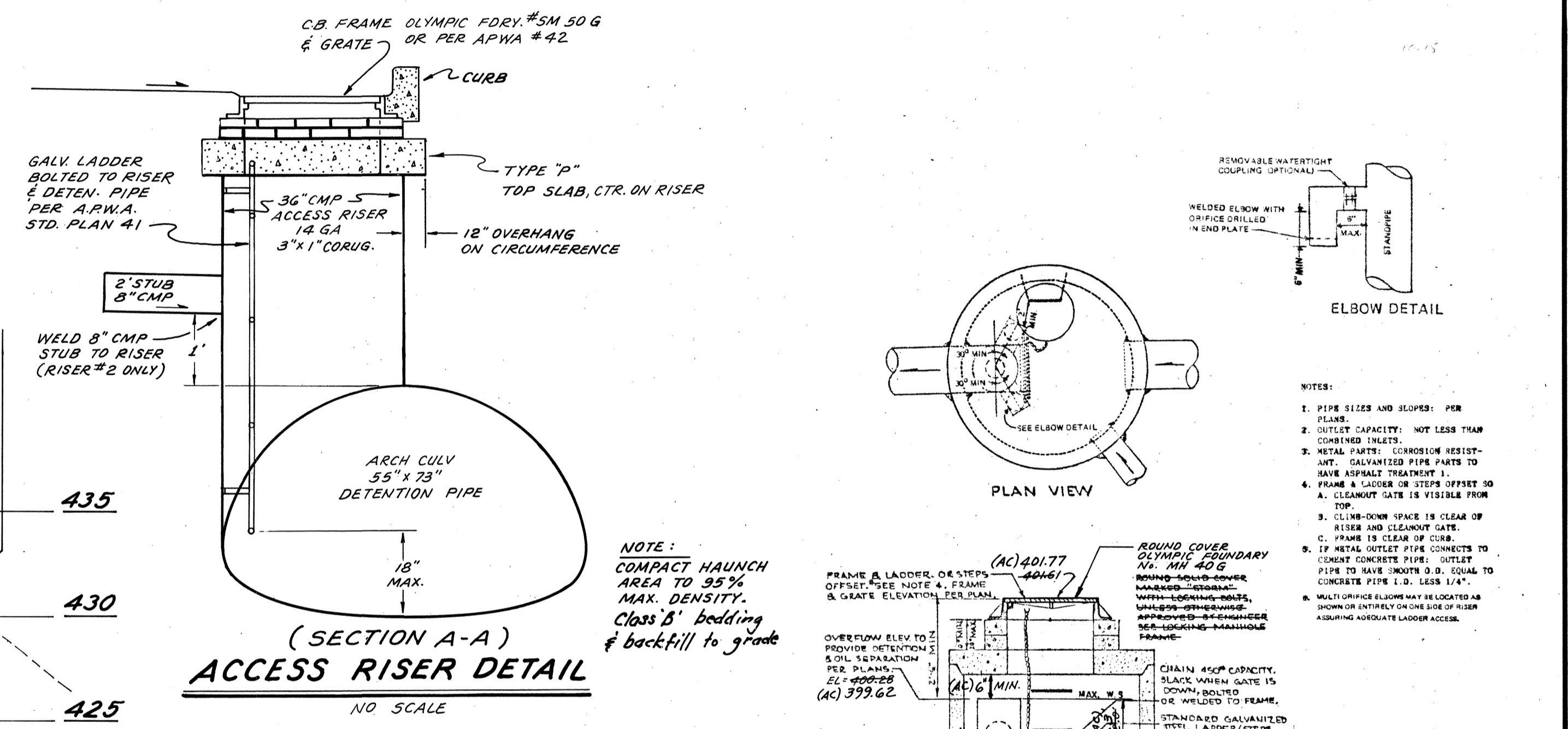
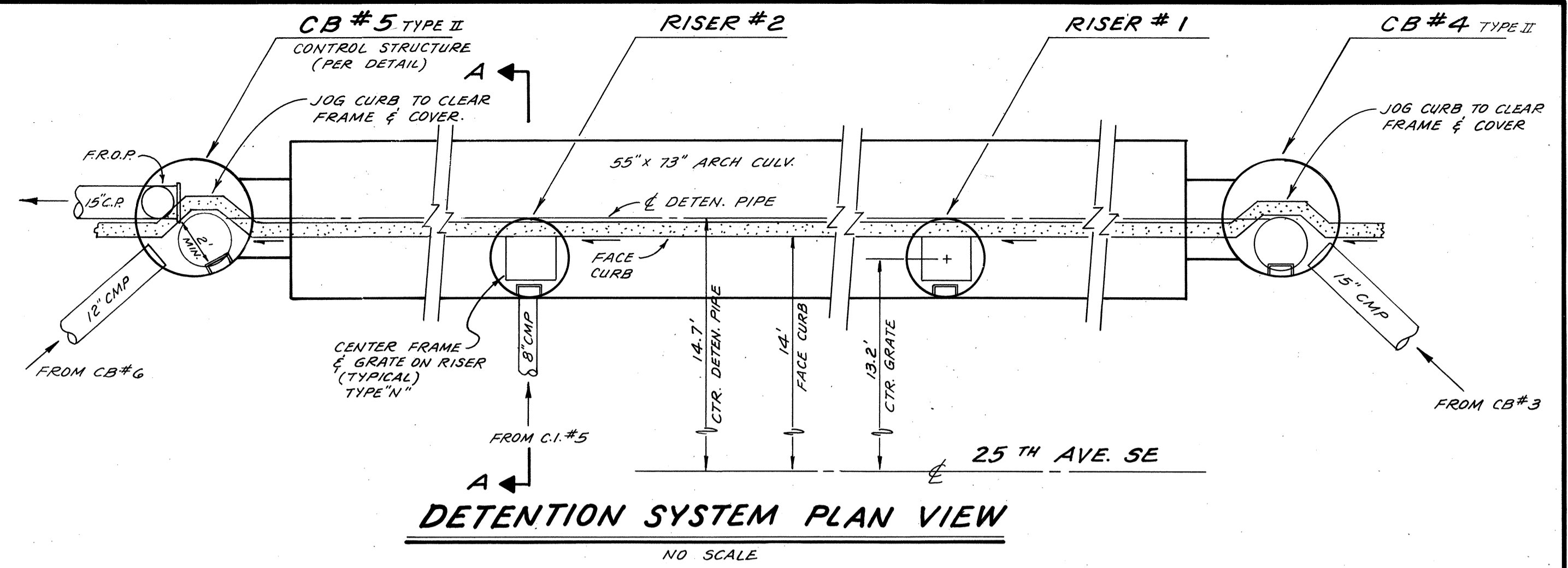
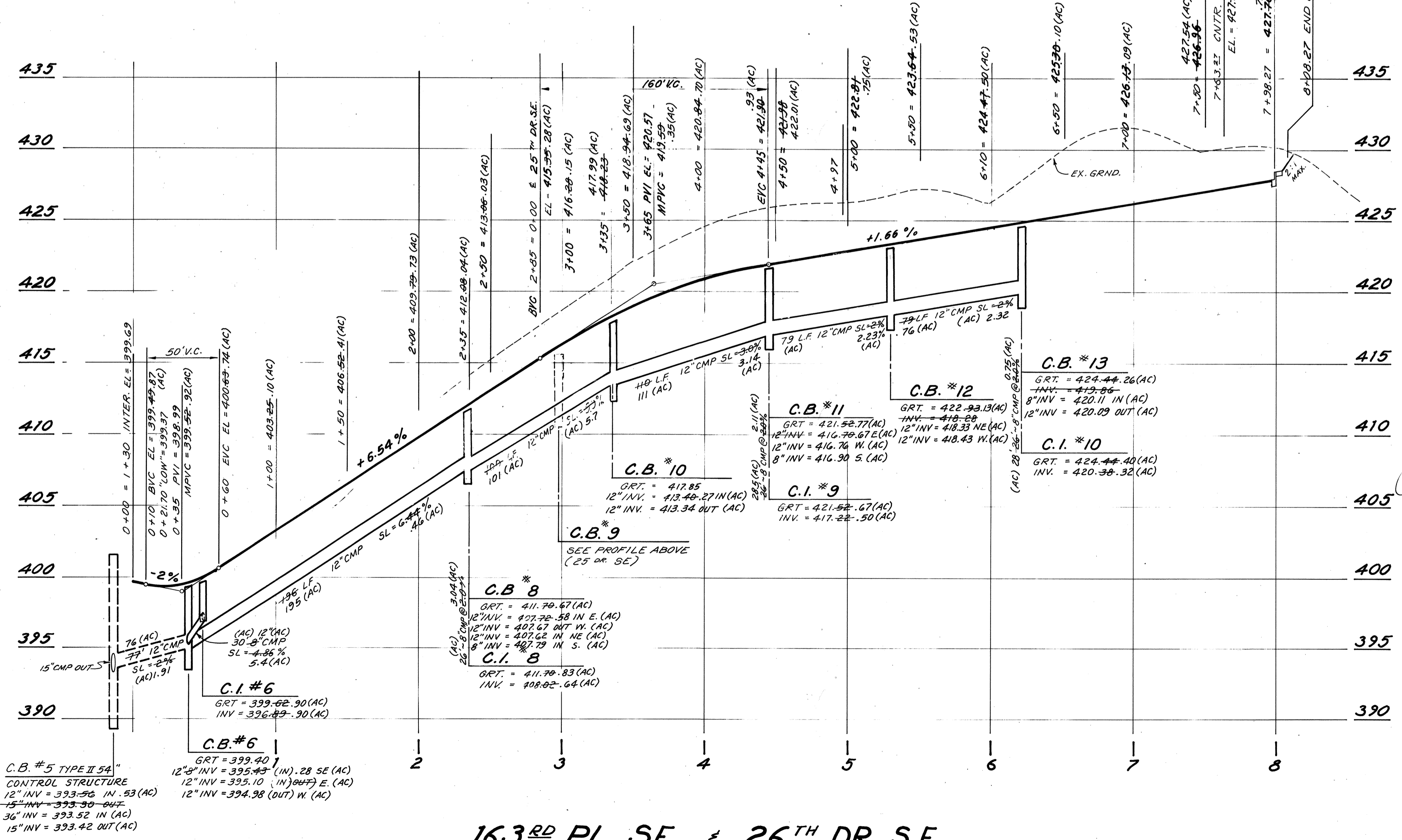
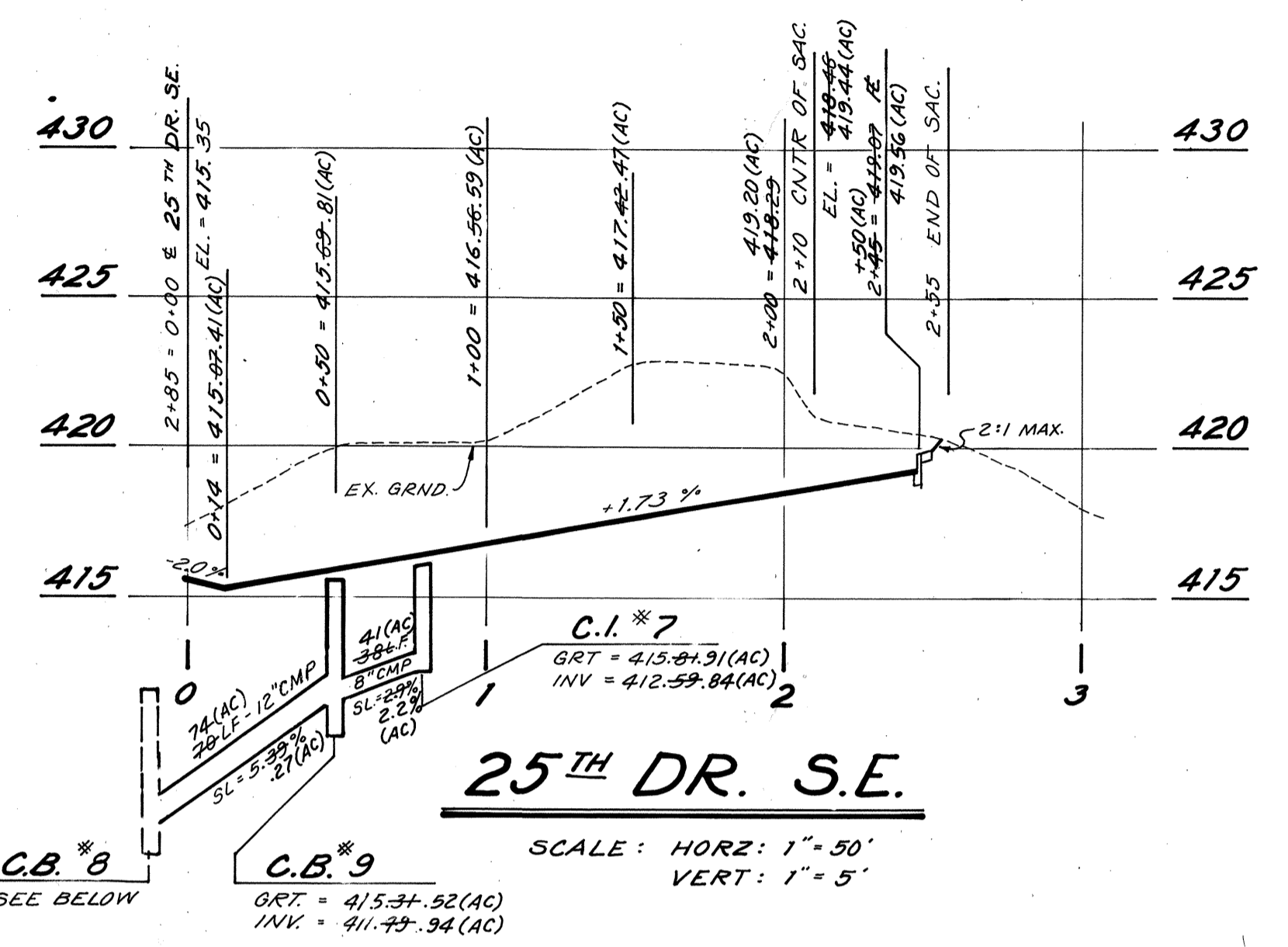
Western Surveyors Inc. logo and contact information: 745-1594 or 355-2776

LAND USE CONSULTANTS CIVIL ENGINEERS & LAND SURVEYORS 13322 Highway 99 South • Everett, WA 98204 • (206) 745-1594

Table with columns: NO, REVISION, DATE, BY. Lists revision details for the plan.

OWN BY DATE PROJECT MANAGER SCALE: RAM 8-26-86 EN. BONE SHEET 1 OF 5 JOB NO. 84-005

HDEV-284



WE HEREBY CERTIFY THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN ON THESE AS-BUILT PLANS.

*Carl Johnson*  
PROJECT MANAGER  
OR SURVEYOR

*Joe L. Mann*  
DEVELOPER

NOTE:  
(AC) REPRESENTS  
AS CONSTRUCTED DATA

APPROVED FOR CONSTRUCTION BY: G.E. WEED, DIRECTOR DATE: 4/23/87  
DEPT. OF PUBLIC WORKS

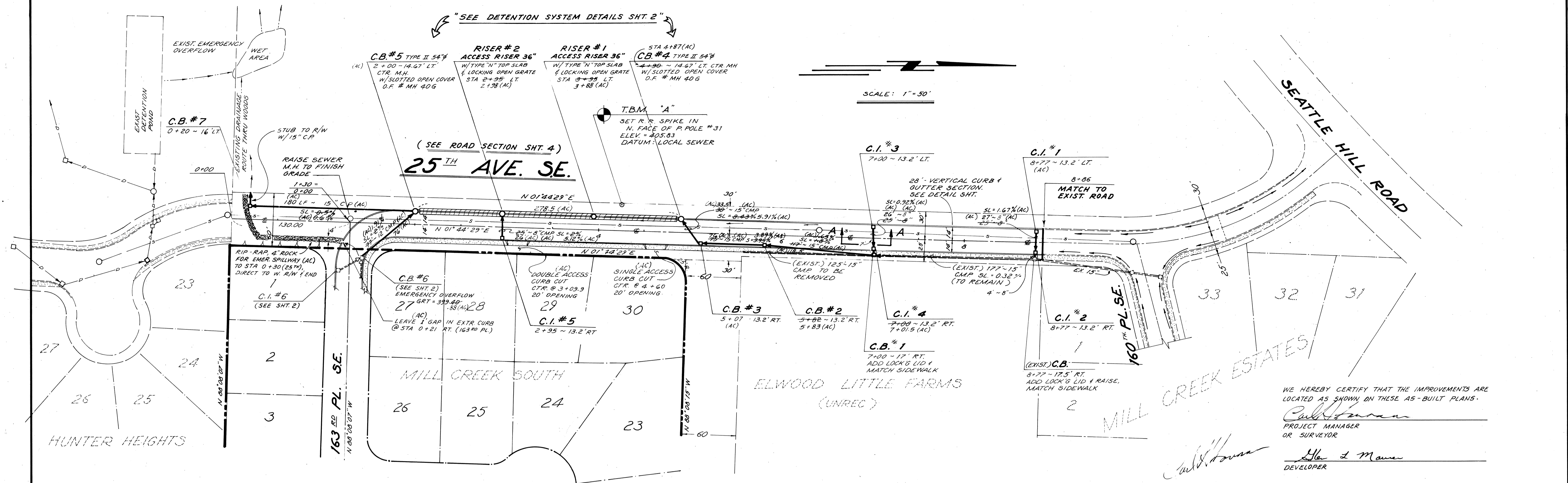
"AS-BUILT"

ROAD & STORM PROFILES		NO.		REVISION		DATE		BY	
FOR:		NO.		REVISION		DATE		BY	
<b>MILL CREEK SOUTH</b>		745-1594							
DEVELOPER:		745-1594							
KEN LONG & DICK SCHMIDT		745-1594							
13322 HWY. 99 SOUTH		745-1594							
EVERETT, WA 98204		745-1594							
PHONE (206) 745-1594		745-1594							
LAND USE CONSULTANTS		745-1594							
CIVIL ENGINEERS • LAND SURVEYORS		745-1594							
13322 Highway 99 South • Everett, WA 98204 • (206) 745-1594		745-1594							
DWN BY - DATE	PROJECT MANAGER	SCALE							
KAM 8-29-86	E.V. BONE	AS SHOWN							
CHKD BY - DATE	SHEET	JOB NO.							
EJB	2 OF 5	84-005							



REV 1 12-11-86 RES  
REV 2 3-6-87 (RLS)

84-005  
RD. STM. PLAN  
MILL CREEK STH.

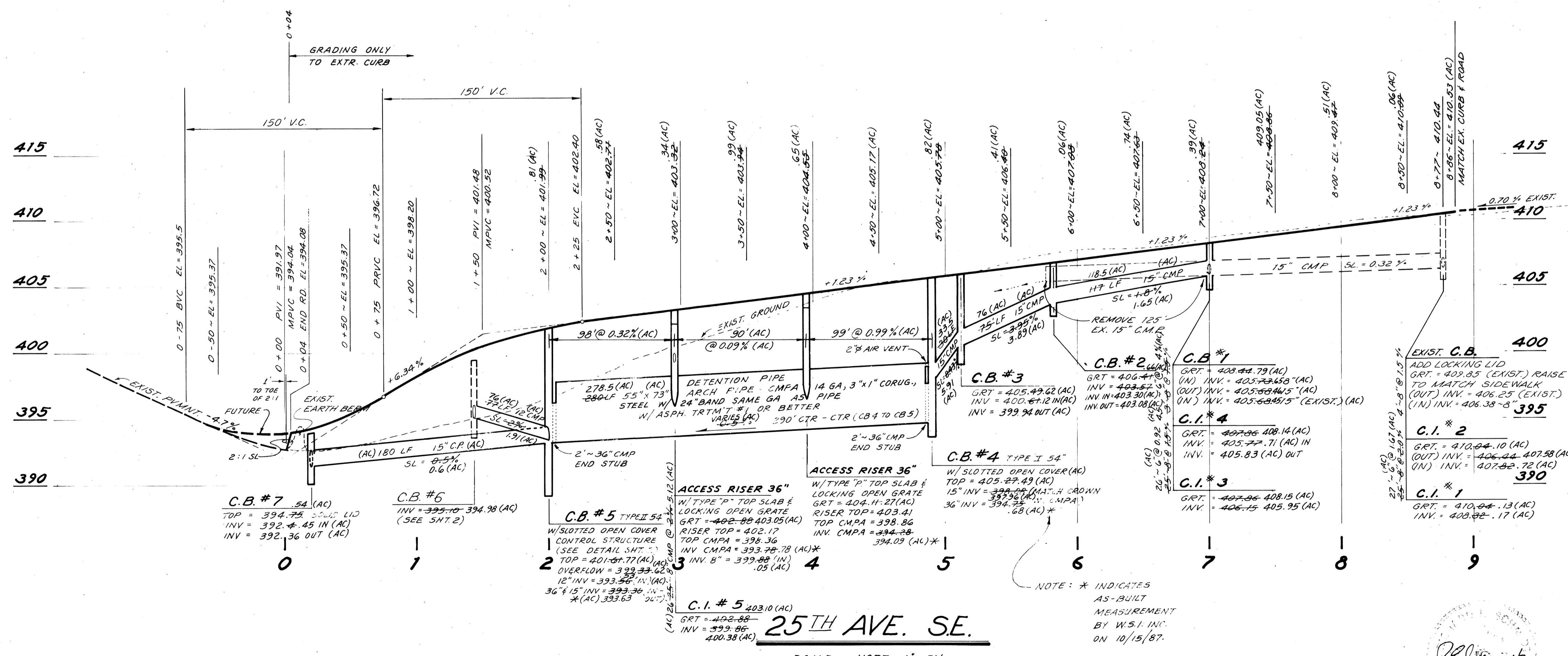
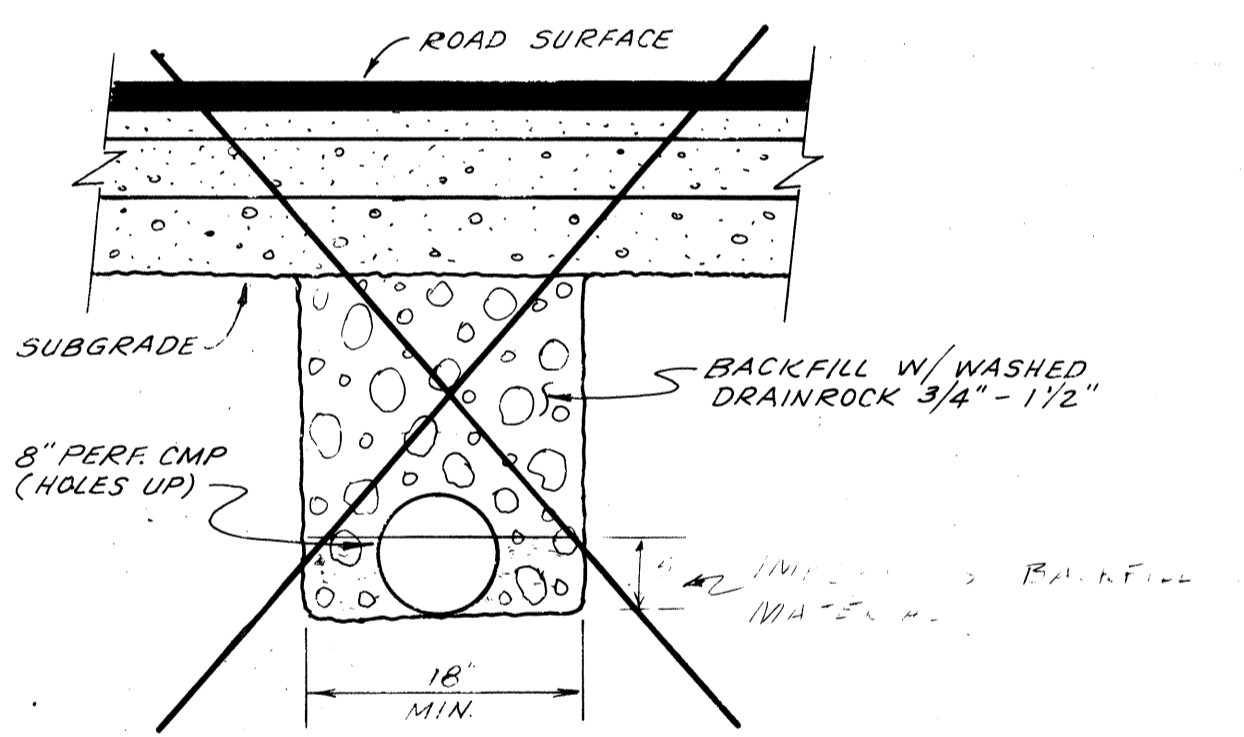


WE HEREBY CERTIFY THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN ON THESE AS-BUILT PLANS.

*Carl Hansen*  
PROJECT MANAGER  
OR SURVEYOR

*He & Mann*  
DEVELOPER

AS-BUILTS 8/10/87



25TH AVE. SE APPROVED FOR: *J. Allan Newhill* DATE: 4-23-87  
CONSTRUCTION CITY OF MILL CREEK

APPROVED FOR: *Rudolph R. Schmitt* BY: G.E. WEED, DIRECTOR DATE: 4/23/87  
CONSTRUCTION DEPT. OF PUBLIC WORKS

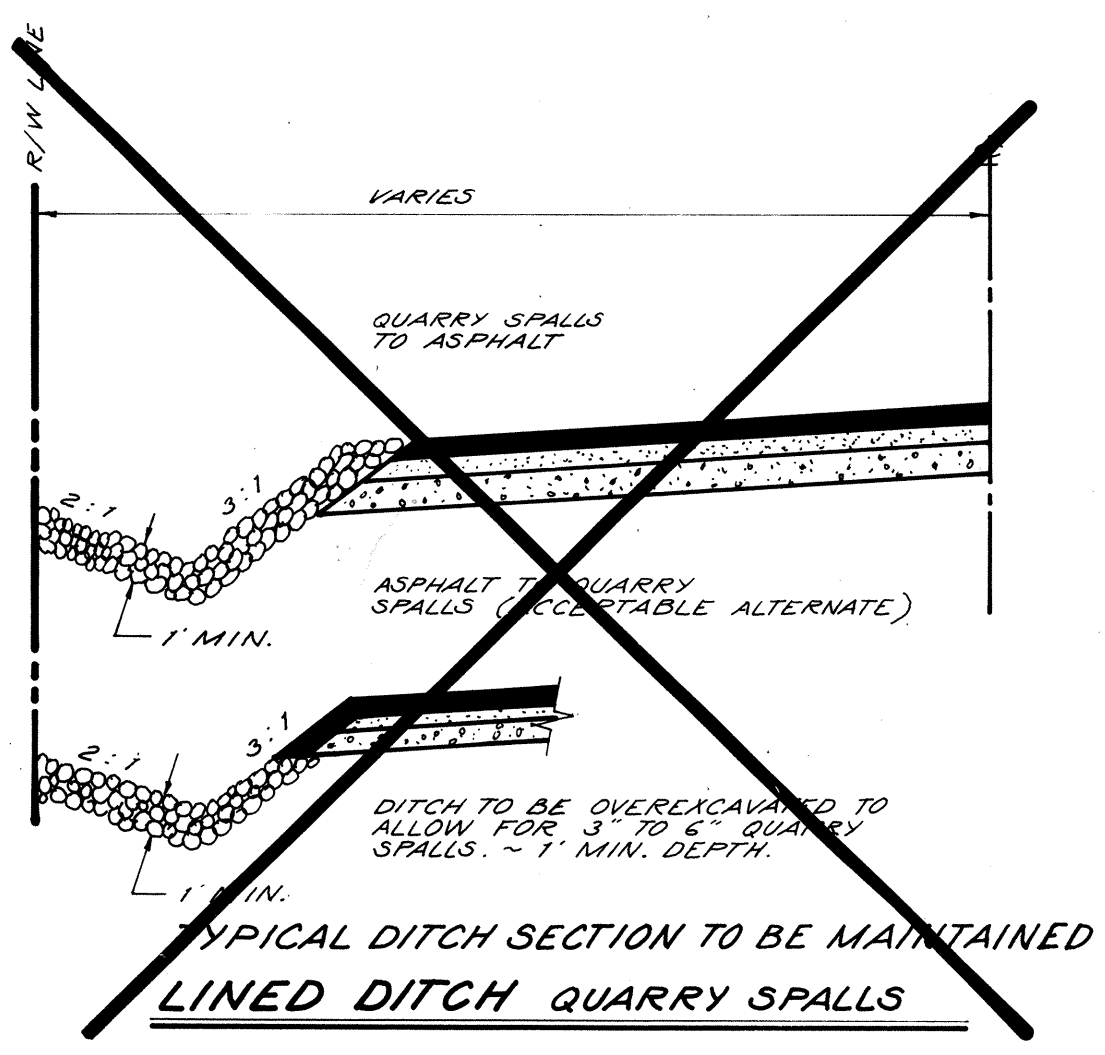
NOTE:  
(AC) REPRESENTS AS CONSTRUCTED DATA.

"AS-BUILT"

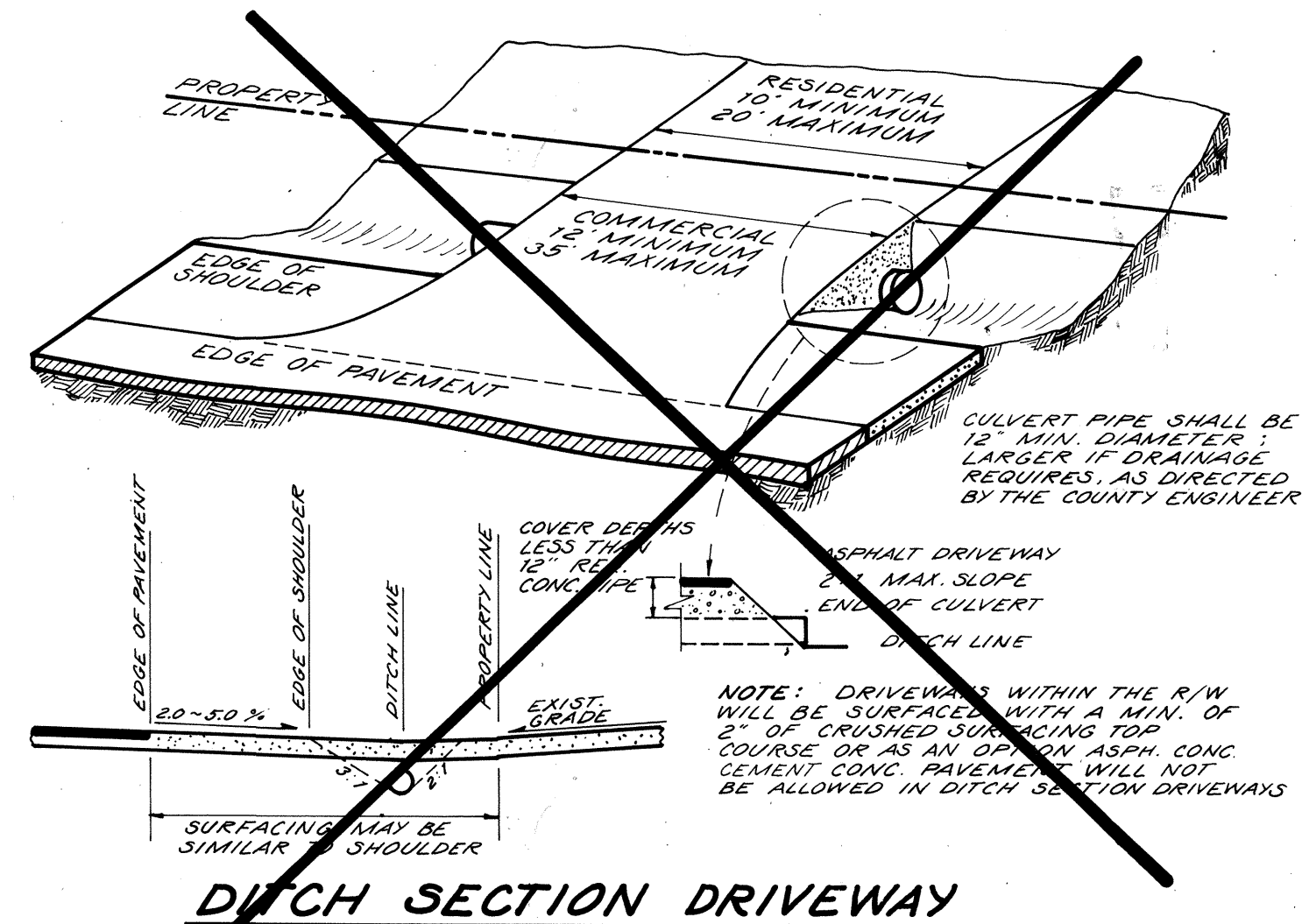
REV. 3: MOVE DETENTION SYSTEM TO W. SIDE OF 25TH, REV. ROAD PROFILE SOUTH OF 2+25. 4-10-87 A.J.  
REV. 2: REVISE EMER. OVRFLOW, ADD C.B.#5182, ADD SEC. A-A 3-6-87 A.J.  
REV. 1: REVISE ROAD PROFILE 12-11-86 D.S.

AS-BUILT DETENTION SYSTEM VOLUME = 6850 ft<sup>3</sup> ±

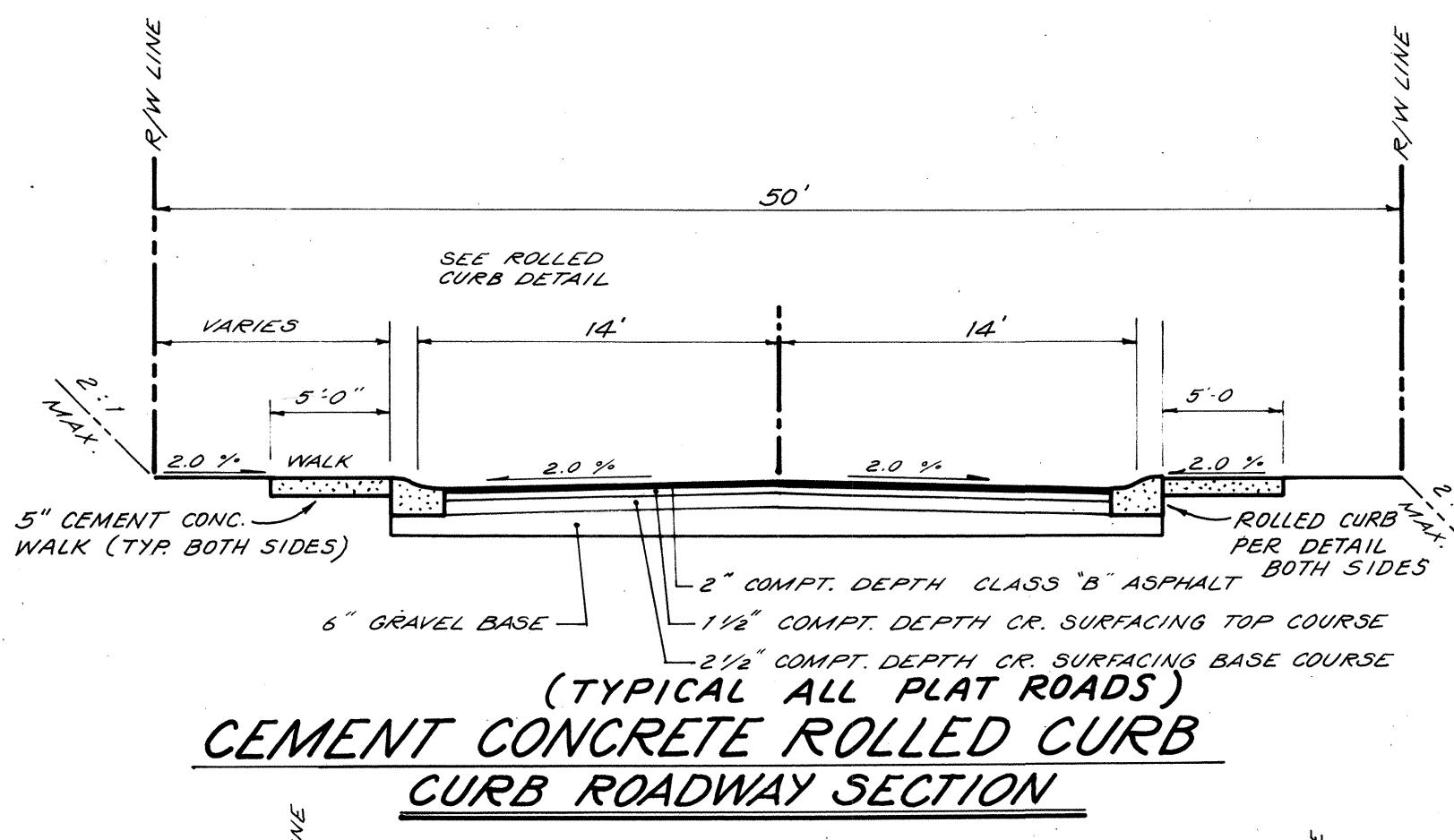
ROAD AND STORM PLAN & PROFILE		FOR:	
MILL CREEK SOUTH		Western Surveyors Inc.	
DEVELOPER: KEN LONG & DICK SCHMIDT		745-1594 or 355-2776	
13322 HWY. 99 SOUTH EVERETT, WA 98204		LAND USE CONSULTANTS CIVIL ENGINEERS • LAND SURVEYORS 13322 Highway 99 South • Everett, WA 98204 • (206) 745-1594	
PHONE (206) 745-1594	PROJECT MANAGER E.V. BONE	SCALE AS SHOWN	
REV. 1: 12-11-86 P.G.S.	DATE 3-15-87 K.S.	DWN BY DATE	PROJECT MANAGER
		KAM 8-23-86	E.V. BONE
		CHKD BY DATE	SHEET 3 OF 5
		E.V.B.	84-005
JOB NO. 84-005		HDEV-286	



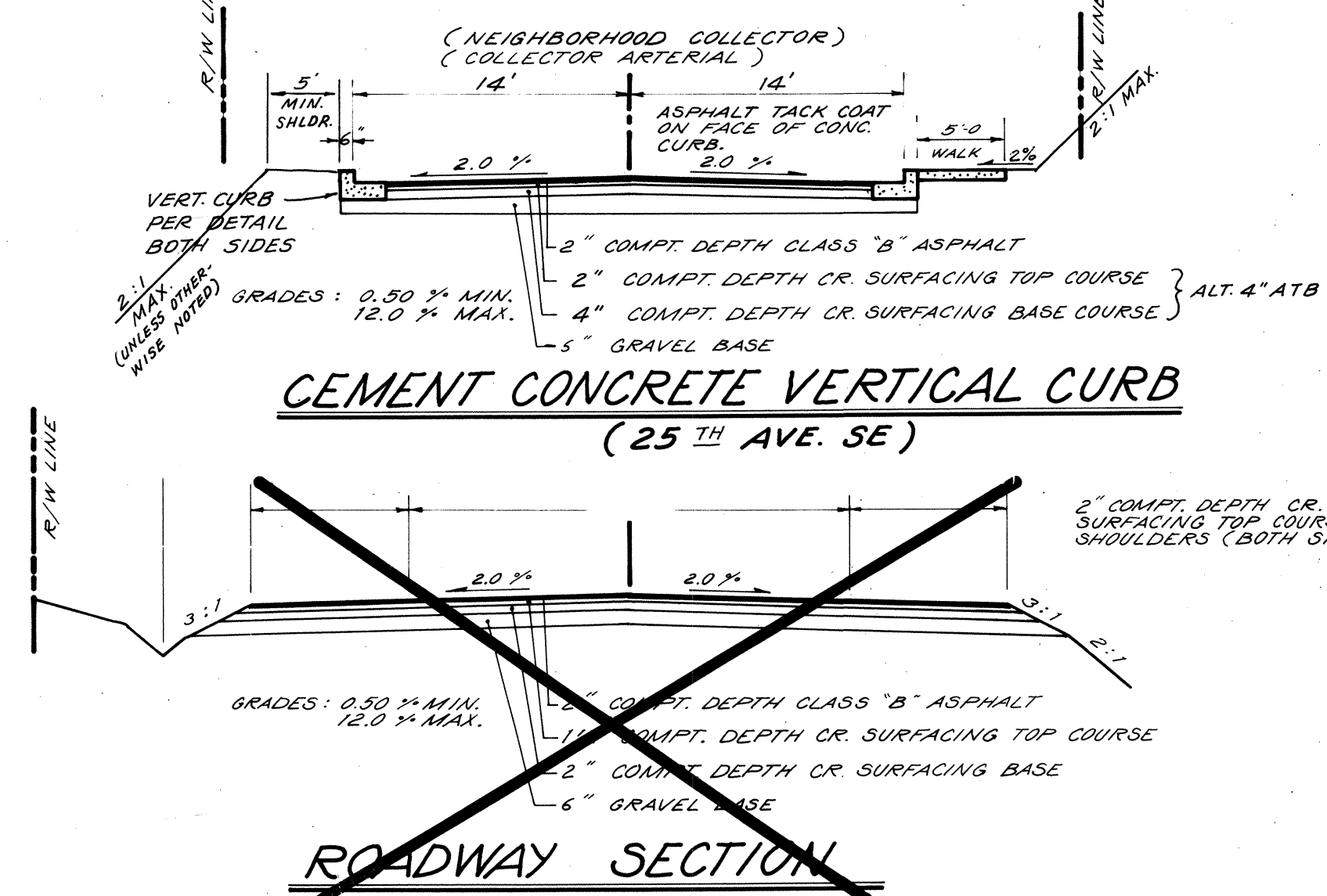
TYPICAL DITCH SECTION TO BE MAINTAINED  
LINED DITCH QUARRY SPALLS



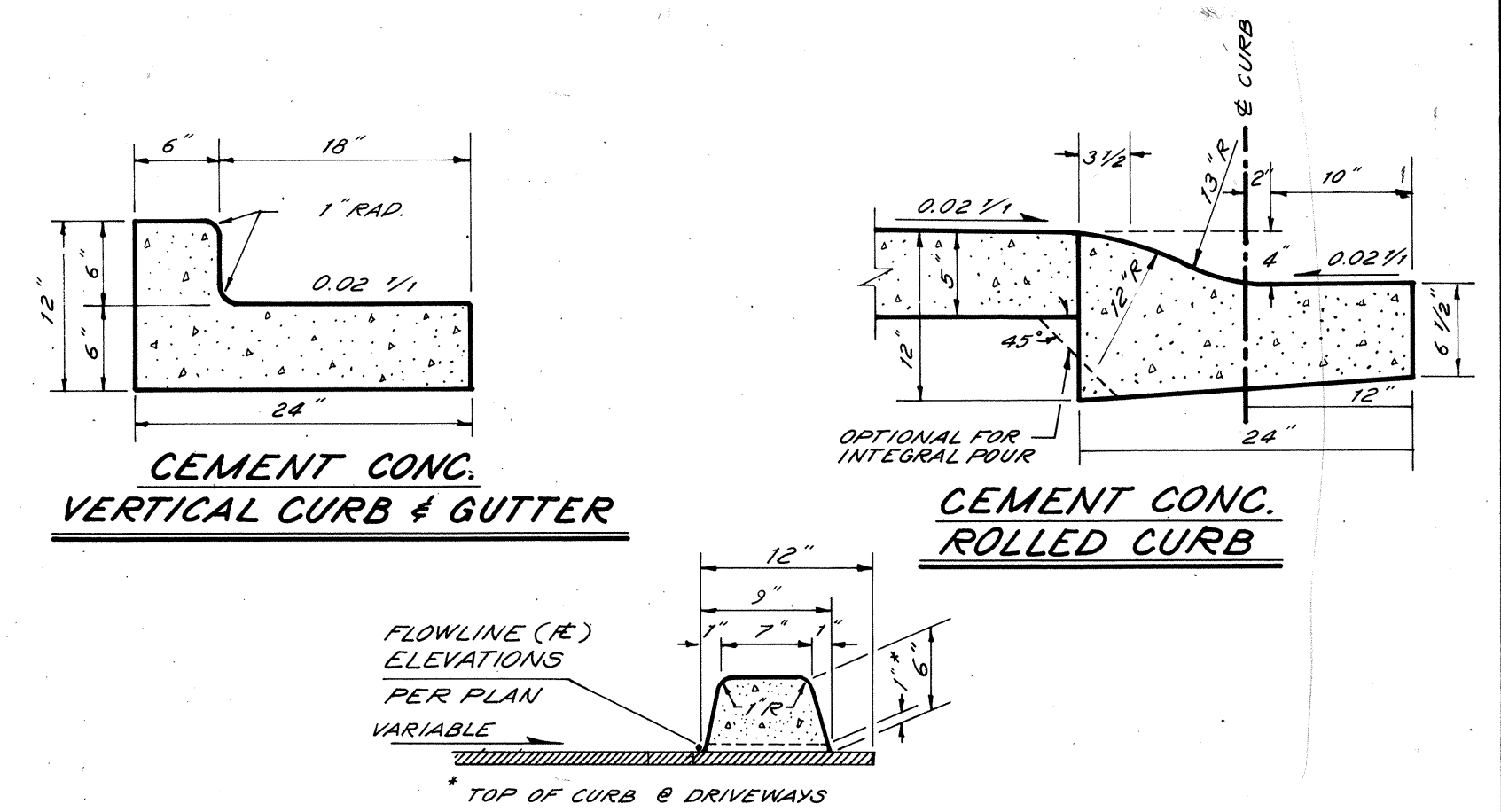
DITCH SECTION DRIVEWAY



CEMENT CONCRETE ROLLED CURB  
CURB ROADWAY SECTION



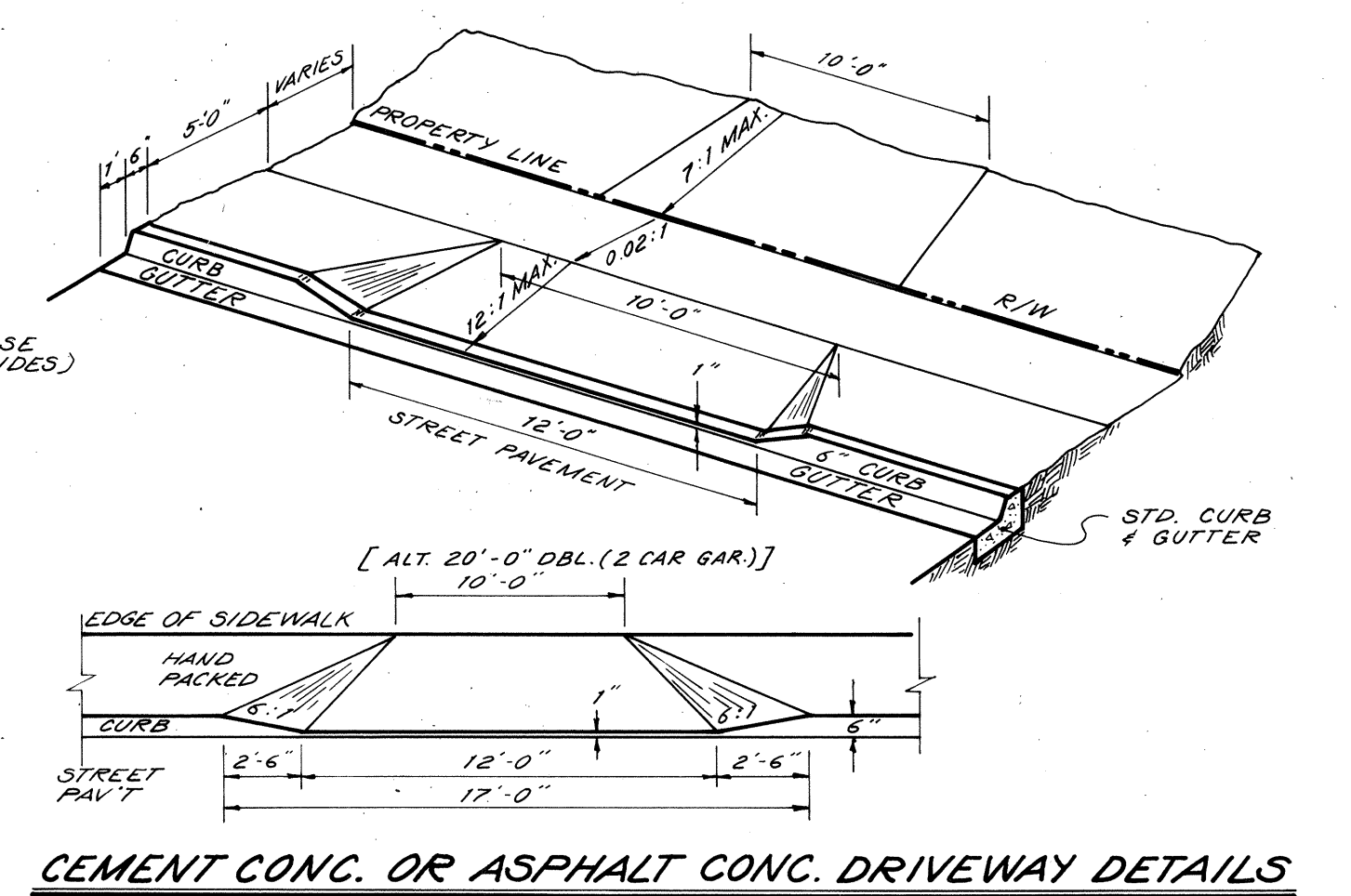
ROADWAY SECTION



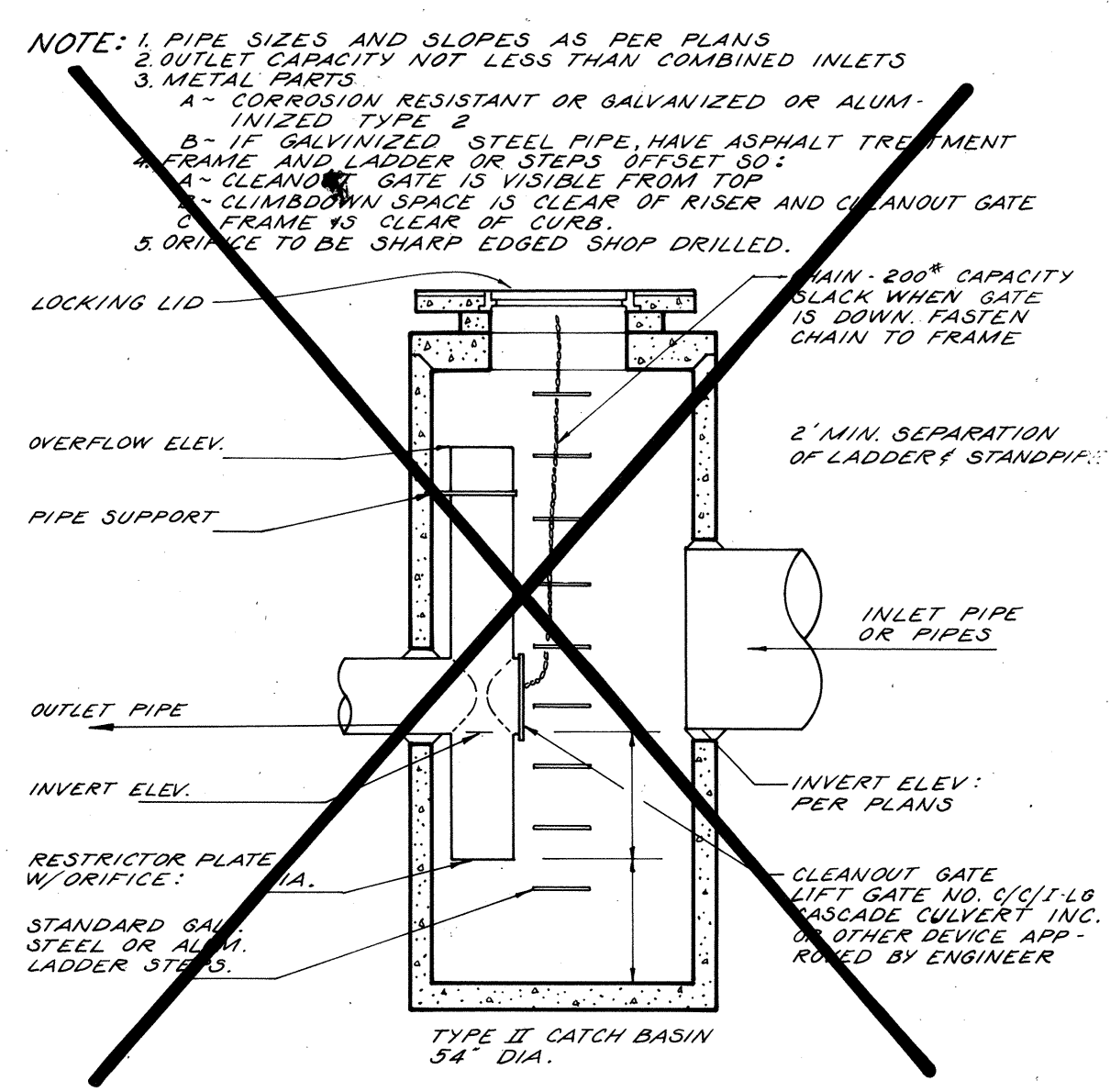
CEMENT CONC.  
VERTICAL CURB & GUTTER

CEMENT CONC.  
ROLLED CURB

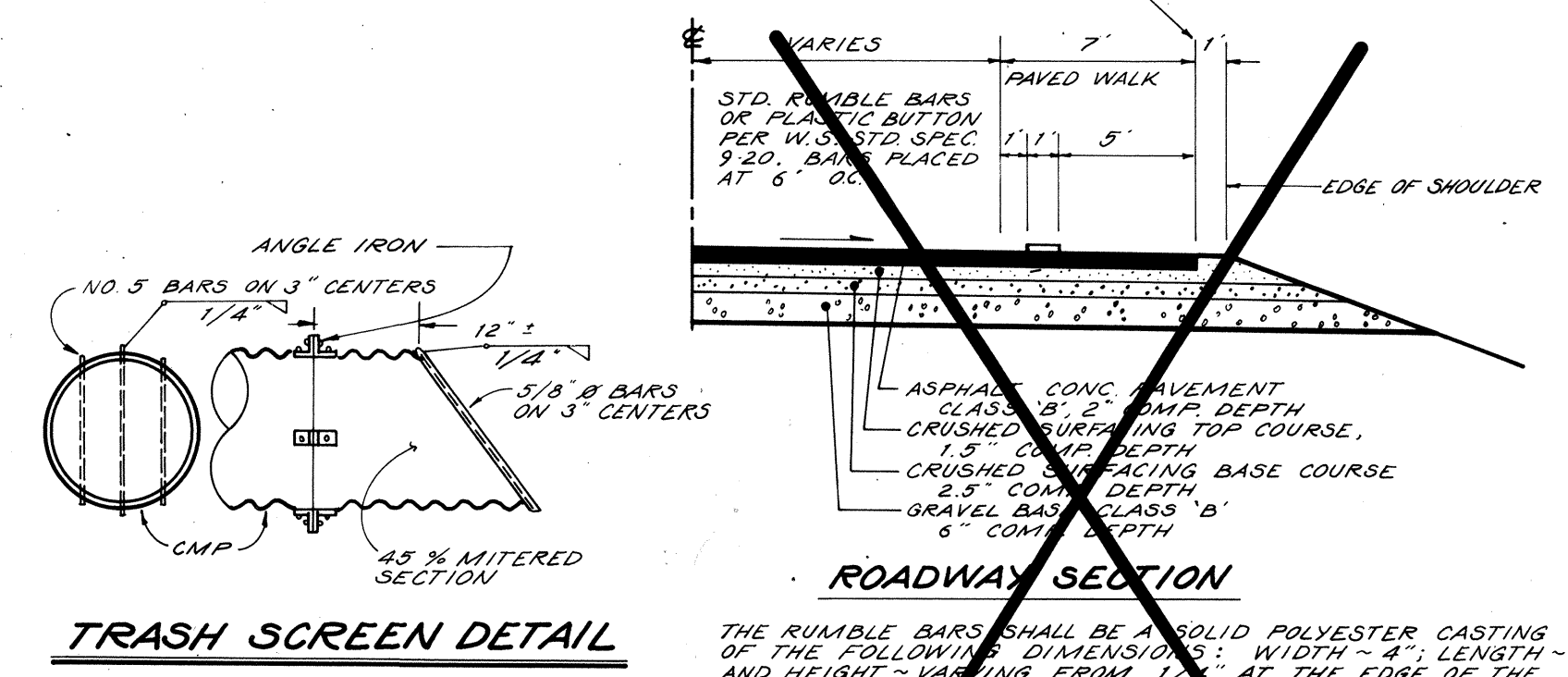
EXTRUDED ASPHALT OR  
CEMENT CONC. CURB



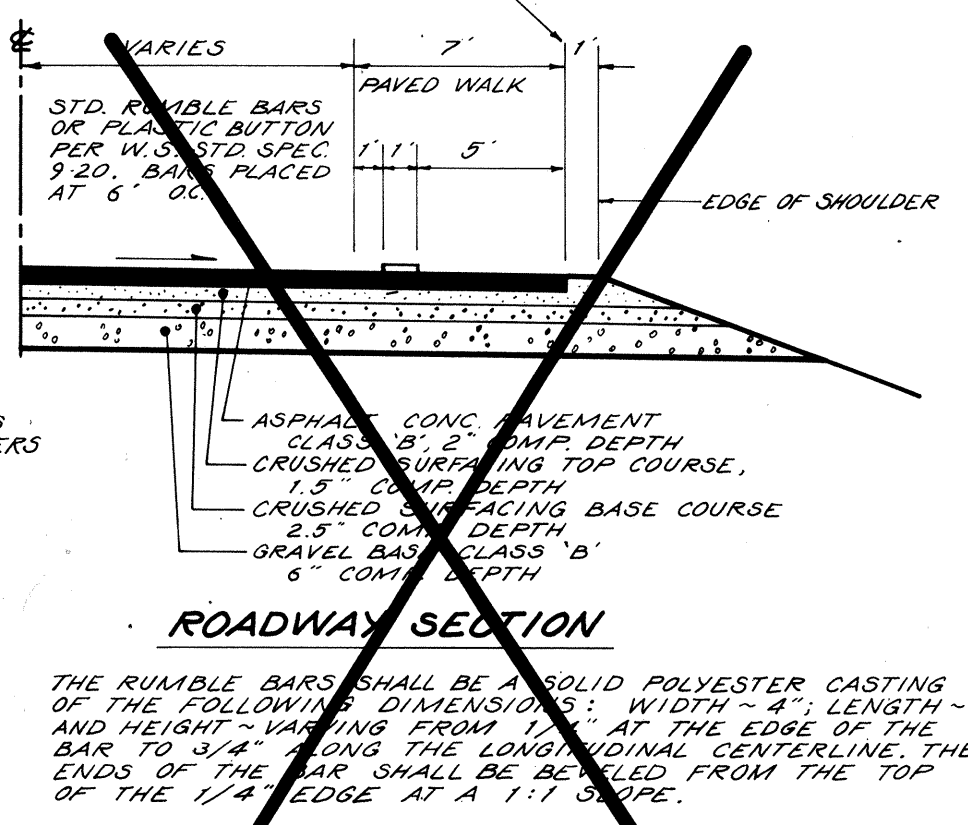
CEMENT CONC. OR ASPHALT CONC. DRIVEWAY DETAILS



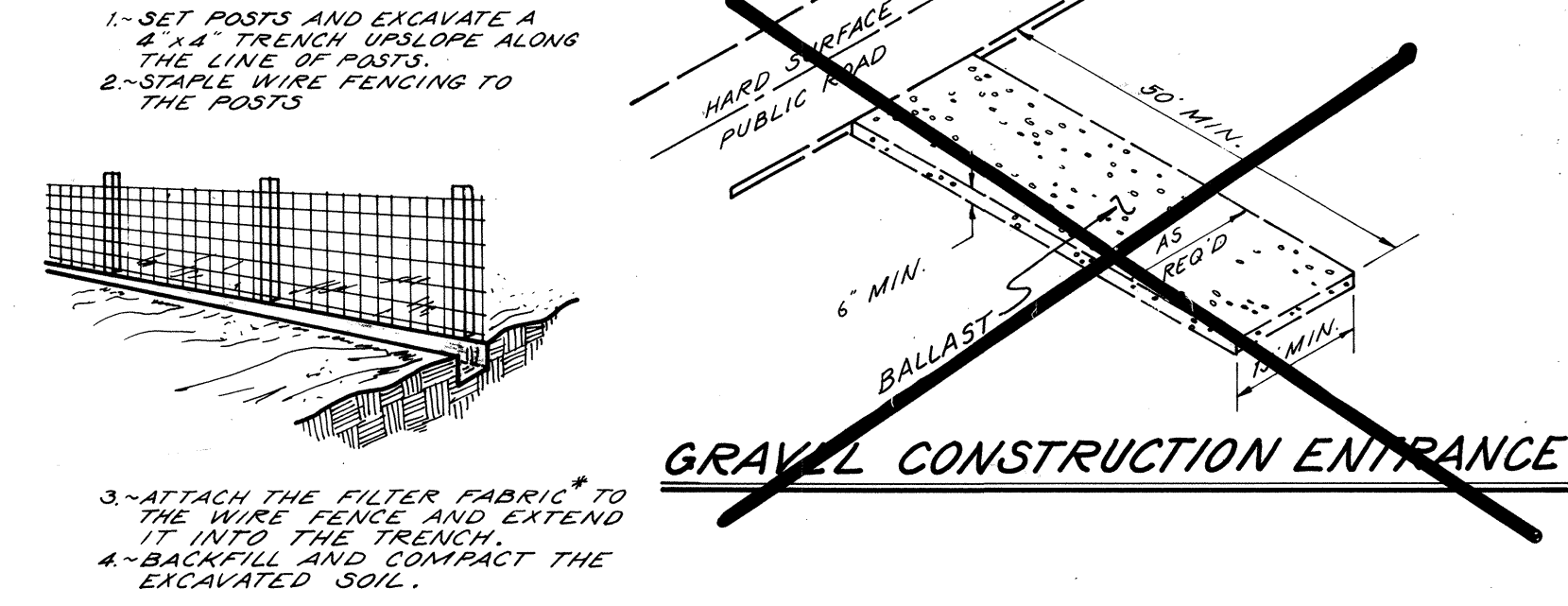
F.R.O.P. CONTROL DEVICE DETAIL



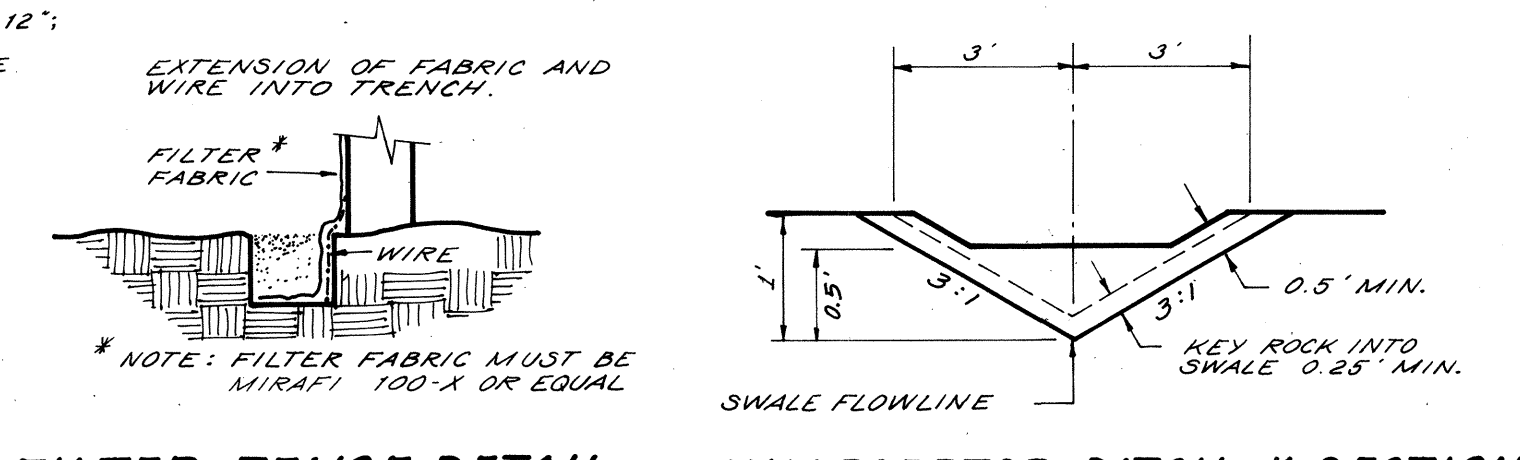
TRASH SCREEN DETAIL



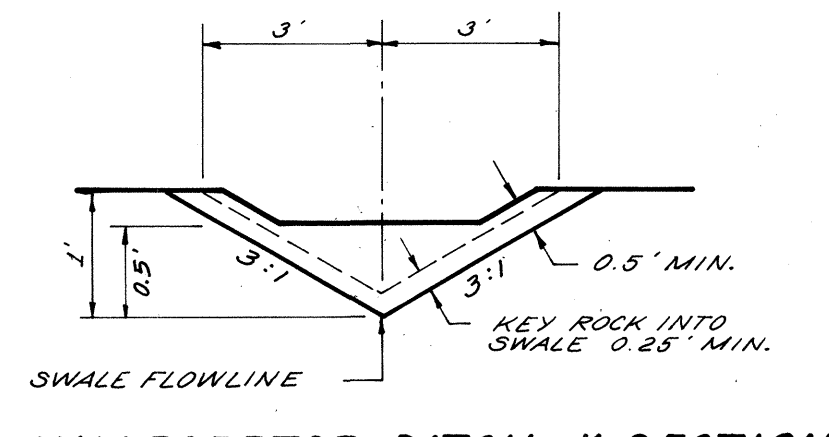
STANDARD WALKWAY



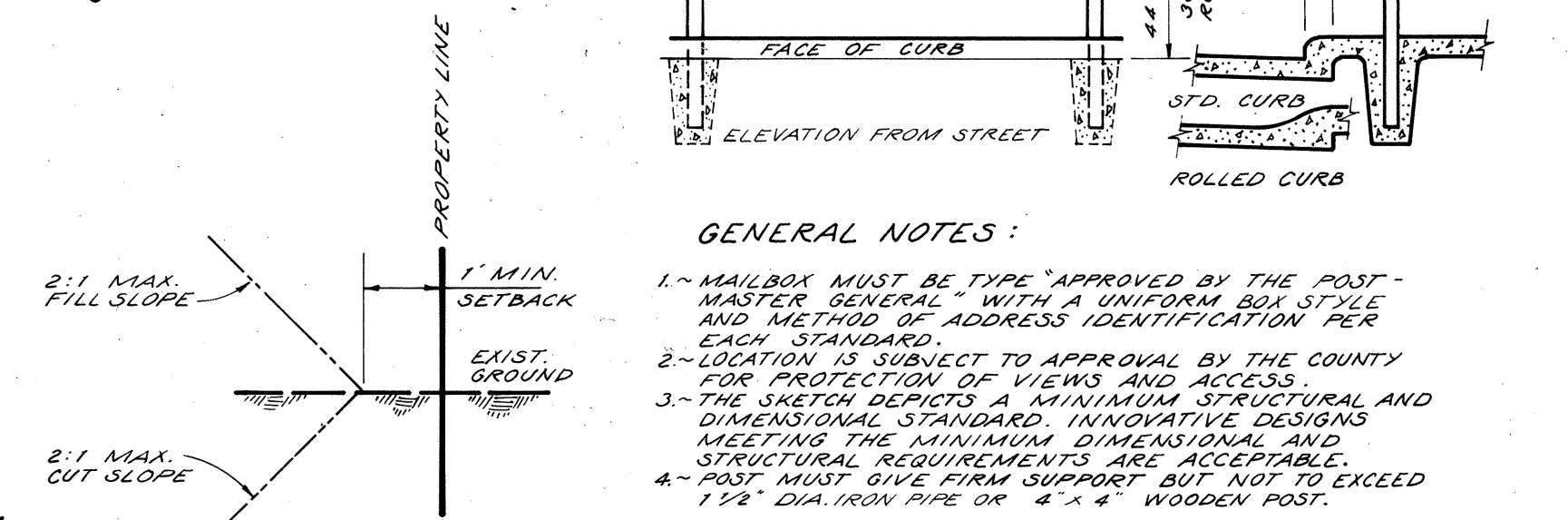
GRAVEL CONSTRUCTION ENTRANCE



FILTER FENCE DETAIL



INTERCEPTOR DITCH X-SECTION  
& ROCK CHECK DAM



GENERAL NOTES:

- MAILBOX MUST BE TYPE APPROVED BY THE POST-MASTER GENERAL WITH A UNIFORM BOX STYLE AND METHOD OF ADDRESS IDENTIFICATION PER EACH STANDARD.
- LOCATION IS SUBJECT TO APPROVAL BY THE COUNTY FOR PROTECTION OF VIEWS AND ACCESS.
- THE SKETCH DEPICTS A MINIMUM STRUCTURAL AND DIMENSIONAL STANDARD. INNOVATIVE DESIGNS MEETING THE MINIMUM DIMENSIONAL AND STRUCTURAL REQUIREMENTS ARE ACCEPTABLE.
- POST MUST GIVE FIRM SUPPORT BUT NOT TO EXCEED 1 1/2\"/>

APPROVED FOR CONSTRUCTION BY: *Ge. Weed*, DIRECTOR, DEPT. OF PUBLIC WORKS, DATE: 4/23/87

NO.	REVISION	DATE	BY

		745-1594 or 355-2776
LAND USE CONSULTANTS CIVIL ENGINEERS • LAND SURVEYORS 13322 Highway 99 South • Everett, WA 98204 • (206) 745-1594		
DWN BY DATE KAM 8-26-86	PROJECT MANAGER E.J. BONE	SCALE AS SHOWN
CHKD BY DATE RES	SHEET 4 OF 5	JOB NO 84-005

DETAILS FOR:	
<b>MILL CREEK SOUTH</b> DEVELOPER: KEN LONG & DICK SCHMIDT 13322 HWY. 99 SOUTH EVERETT, WA 98204 PHONE (206) 745-1594	

PLAT OF  
ELWOOD LITTLE FARMS  
UNREC.

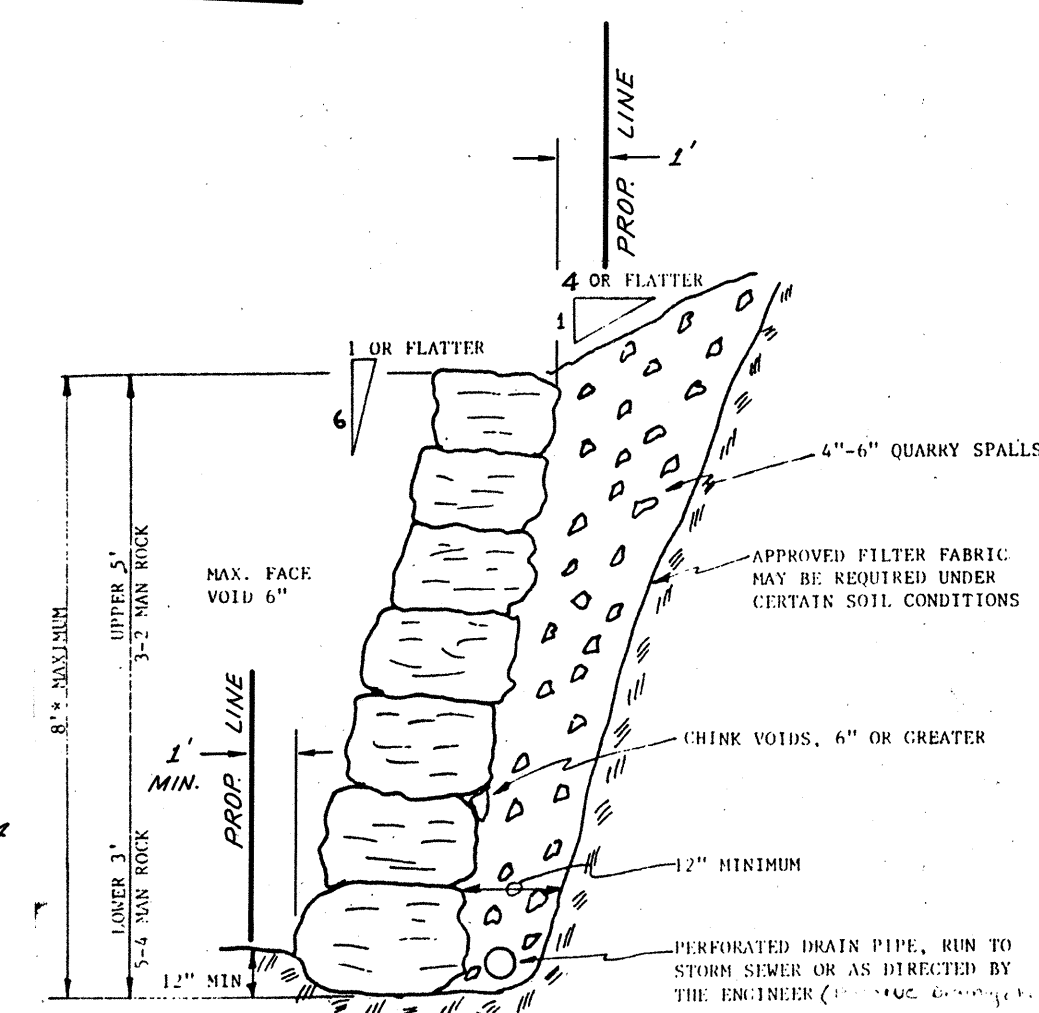
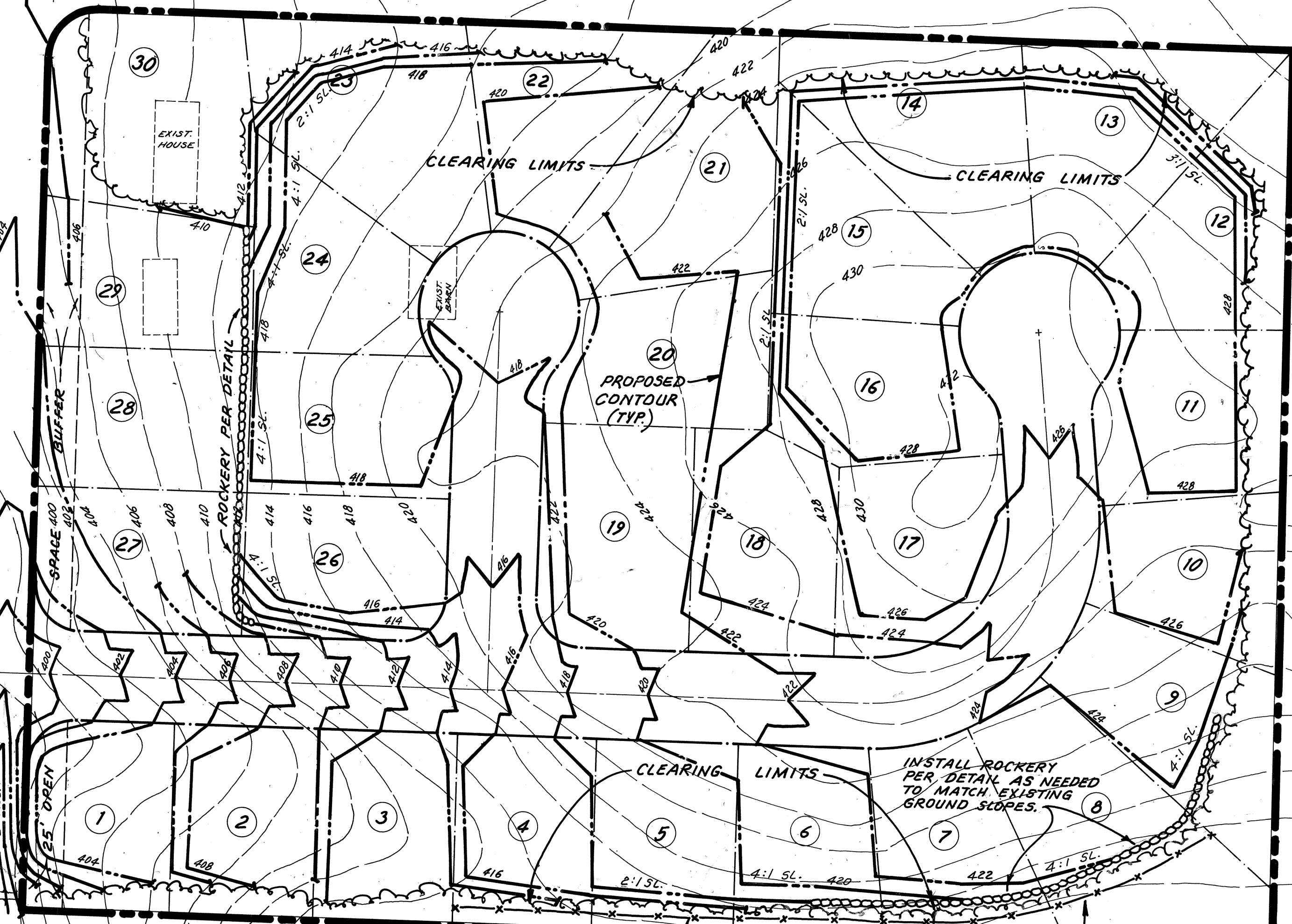
25<sup>TH</sup> AVE. SE.

SCALE: 1" = 50'

FILTER FENCE  
(PER DETAIL SHT. 4)  
INSTALL 1' EAST OF  
R/W LINE.

FILTER BERM  
W/STANDPIPE  
(PER DETAIL)

EXISTING EARTH BERM  
TOP = 393.3 ±



THE LONG DIMENSION OF THE ROCKS SHALL EXTEND INTO THE EARTH TO PROVIDE MAXIMUM STABILITY  
THE ROCK SHALL BE PLACED SO AS TO LOCK INTO TYP. JOINTS IN THE TIER

2 MAX ROCKS	300 LBS. MIN., 800 LBS. MAX., SIZE 11" TO 18"
3 MAX ROCKS	400 LBS. " 1500 LBS. MAX., SIZE 18" TO 24"
4 MAX ROCKS	1500 LBS. " 2100 LBS. MAX., SIZE 24" TO 32"
5 MAX ROCKS	2100 LBS. " 3000 LBS. MAX., SIZE 30" TO 38"

ANY ROCKERY GREATER THAN 8 FEET IN HEIGHT MUST BE DESIGNED AND INSPECTED BY A LICENSED STRUCTURAL ENGINEER. THE ENGINEER MUST CERTIFY TO THE CITY THAT THE ROCKERY WAS INSTALLED IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

ROCKERIES 7 FEET AND LOWER SHALL BE CONSTRUCTED OF 4 MAN TO 2 MAN ROCKS FROM BOTTOM TO TOP.  
ROCKERIES 7 FEET AND HIGHER SHALL BE CONSTRUCTED OF 5 MAN TO 2 MAN ROCKS FROM BOTTOM TO TOP.

**ROCKERY DETAIL**  
NO SCALE

INSTALL FILTER FABRIC FENCE  
OR STRAW BALES PER DETAIL SHT. 4.  
ALONG LOTS 4 THRU 8

- TEMPORARY EROSION/SEDIMENTATION CONTROL NOTES**
- WHERE POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.
  - TEMPORARY SILTATION AND DETENTION PONDS WILL BE REQUIRED. ONE METHOD OF CONSTRUCTION ACCEPTABLE TO THE COUNTY IS BY PLACING STRAW BALES ACROSS SWALES HELD BY TWO STAKES PER BALE. REP-RAP SHALL BE USED ON BOTH SIDES OF BALES FOR EROSION CONTROL AS REQUIRED.
  - ALL TEMPORARY SILTATION AND DETENTION PONDS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND OR CONSTRUCTION IS COMPLETED AND THE PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL.
  - AFTER CONSTRUCTION, TEMPORARY SILTATION CONTROL AREAS SHOULD BE EITHER RETURNED TO ORIGINAL GROUND CONDITIONS OR PHASED INTO PERMANENT APPROVED DRAINAGE PLAN.
  - THE SILTATION CONTROL SYSTEMS DEPICTED ON THIS DRAWING ARE SUCH AS TO MEET MINIMUM COUNTY REQUIREMENTS. AS CONSTRUCTION PROGRESSES AND EXPECTED SEASONAL CONDITIONS DICTATE, MORE SILTATION CONTROL FACILITIES MAY BE REQUIRED TO INSURE COMPLETE SILTATION CONTROL OF THIS PROPERTY. THEREFORE, DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE MINIMUM REQUIREMENTS, AS MAY BE NEEDED.
  - STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED BY TEMPORARY SEEDING AND MULCHING. HYDRO-SEED PREFERRED.
  - AREAS TO BE ROUGH GRADED WITH FINISH GRADING TO FOLLOW NEAR PROJECT COMPLETION ARE TO BE SEED WITH ANNUAL, PERENNIAL OR HYBRID RYE GRASS. THIS ALSO INCLUDES PERIMETER DIKES AND THE SEDIMENT BASIN EMBANKMENT. HYDRO-SEED PREFERRED.
  - IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION (CONSISTING OF RAPID, PERSISTENT AND LEGUME) WILL BE APPLIED. (MINIMUM 80% PER ACRE) THIS IS TO INCLUDE:  
20% ANNUAL, PERENNIAL OR HYBRID RYEGRASS  
40% CREEPING RED FESCUE, AND  
40% WHITE CLOVER  
HYDRO-SEED PREFERRED.
  - FERTILIZER: SHALL BE APPLIED AT 400# PER ACRE OF 10-20-20 (10 POUNDS PER 100 SQUARE FEET) OR EQUIVALENT.
  - PREPARATION OF SURFACE: ALL AREAS TO BE SEED SHALL BE CULTIVATED TO THE SATISFACTION OF THE ENGINEER. THIS MAY BE ACCOMPLISHED BY DICING, RAKING, HARROWING OR OTHER ACCEPTABLE MEANS.
  - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINAGE MUST BE REMOVED IMMEDIATELY.
  - ALL FILLS AS DESIGNATED BUILDING SITES TO BE COMPACTED TO 90% OF MAX. DENSITY.

**MAINTENANCE OF STRAW BALE**  
Straw bale barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Close attention shall be paid to the repair of damaged bales, and runs and undercutting beneath bales. Necessary repairs to barriers or replacement of bales shall be accomplished promptly. Sediment deposits should be removed after each rainfall. They must be removed when the level of deposition reaches approximately one-half the height of the barrier. Any sediment deposits remaining in place after the straw bale barrier is no longer required shall be dressed to conform to the existing grade, prepared and seeded.

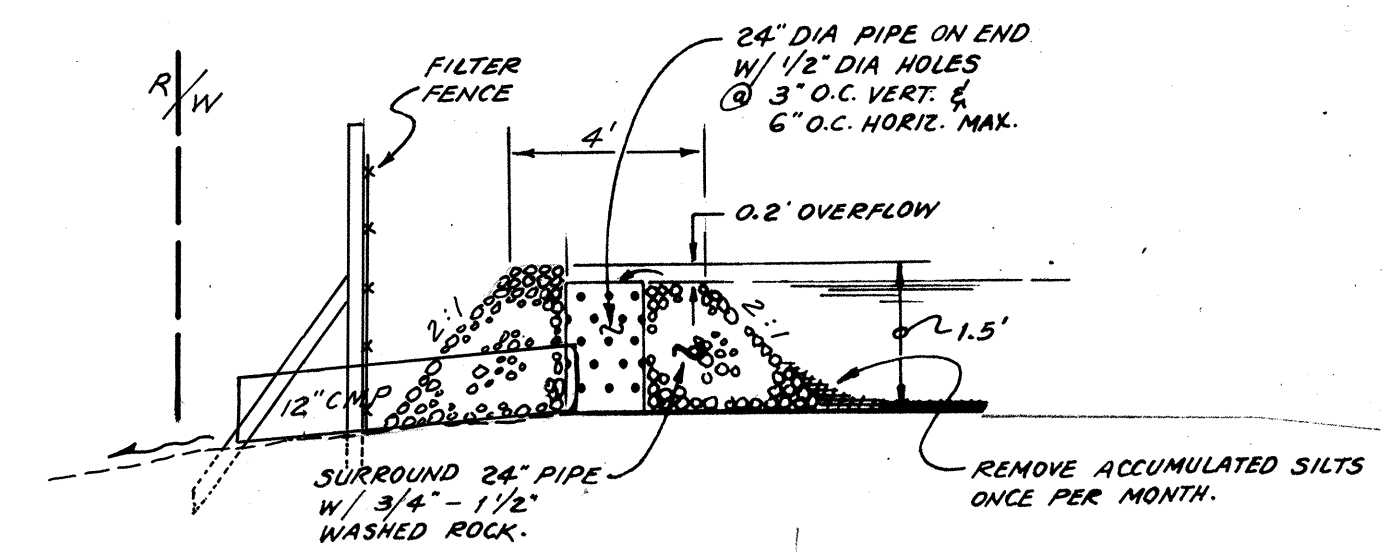
**STANDPIPE AND SEDIMENT POND MAINTENANCE**  
The embankment of the basin should be checked regularly to insure that it is structurally sound and has not been damaged by erosion or construction equipment. The emergency spillway should be checked regularly to insure that its lining is well established and erosion-resistant. The siltation basin should be checked after each runoff-producing rainfall for sediment cleanout. When the sediment reaches the cleanout level, it shall be removed and properly disposed of.

**GRADING QUANTITIES**  
CUT : 18,614 ± C.Y.  
FILL : 14,344 ± C.Y.

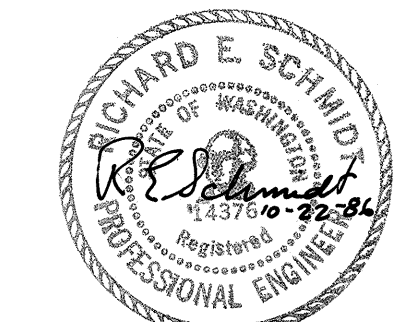
APPROVED FOR ROAD CONSTRUCTION ONLY BY: G.E. WEED, DIRECTOR DATE: 4/23/87 DEPT. OF PUBLIC WORKS

- REV. 5 : ADD ROCKERIES & ROCKERY DETAIL. 7-07-87 AJ
- REV. 4 : REV. GRADES @ INTER. 25<sup>TH</sup> AVE & 163RD ST. & ADD FILTER BERM-STANDPIPE 6-10-87 AJ
- REV. 3 : ADD FILTER FENCE LOTS 4-8 3-6-87 AJ
- REV. 2 : REVISE CLEARING LIMITS AND ADDED GRADING PLAN. 12-11-86 D.S.
- REV. 1 : INCREASE CLEARING LIMITS TO ACCOMMODATE THE NECESSARY BUILDING AREAS 1/29/86 ALJ

**NOTE:**  
ALL GRADING TO BE IN CONFORMANCE WITH U.B.C., CHAPTER 70.



**FILTER BERM STANDPIPE DETAIL**  
N.T.S.



REV. 2 12-11-86 RES  
REV. 3 3-10-87 RES

**TEMPORARY EROSION-SEDIMENTATION CONTROL PLAN**  
**CLEARING LIMITS GRADING PLAN**  
FOR  
**MILL CREEK SOUTH**

DEVELOPER:  
**KEN LONG & DICK SCHMIDT**  
13322 HWY. 99 SOUTH  
EVERETT, WA 98204  
PHONE (206) 745-1594

NO.	REVISION	DATE	BY
3			

**Western Surveyors Inc.**  
745-1594 or 355-2776

LAND USE CONSULTANTS  
CIVIL ENGINEERS • LAND SURVEYORS  
13322 Highway 99 South • Everett, WA 98204 • (206) 745-1594

DWN BY	DATE	PROJECT MANAGER	SCALE
KAM	8-26-86	EN. BONE	
CHKD BY	DATE	SHEET	JOB NO.
ENB		5 OF 5	84-005

HDEV - 288

LEGEND

CONC. MON. W/ BRASS CAP IN CASE TO BE SET

TBM 'A' SET RR SPIKE IN N. FACE OF P. POLE #31 EL. = 405.83 DATUM: LOCAL SEWER

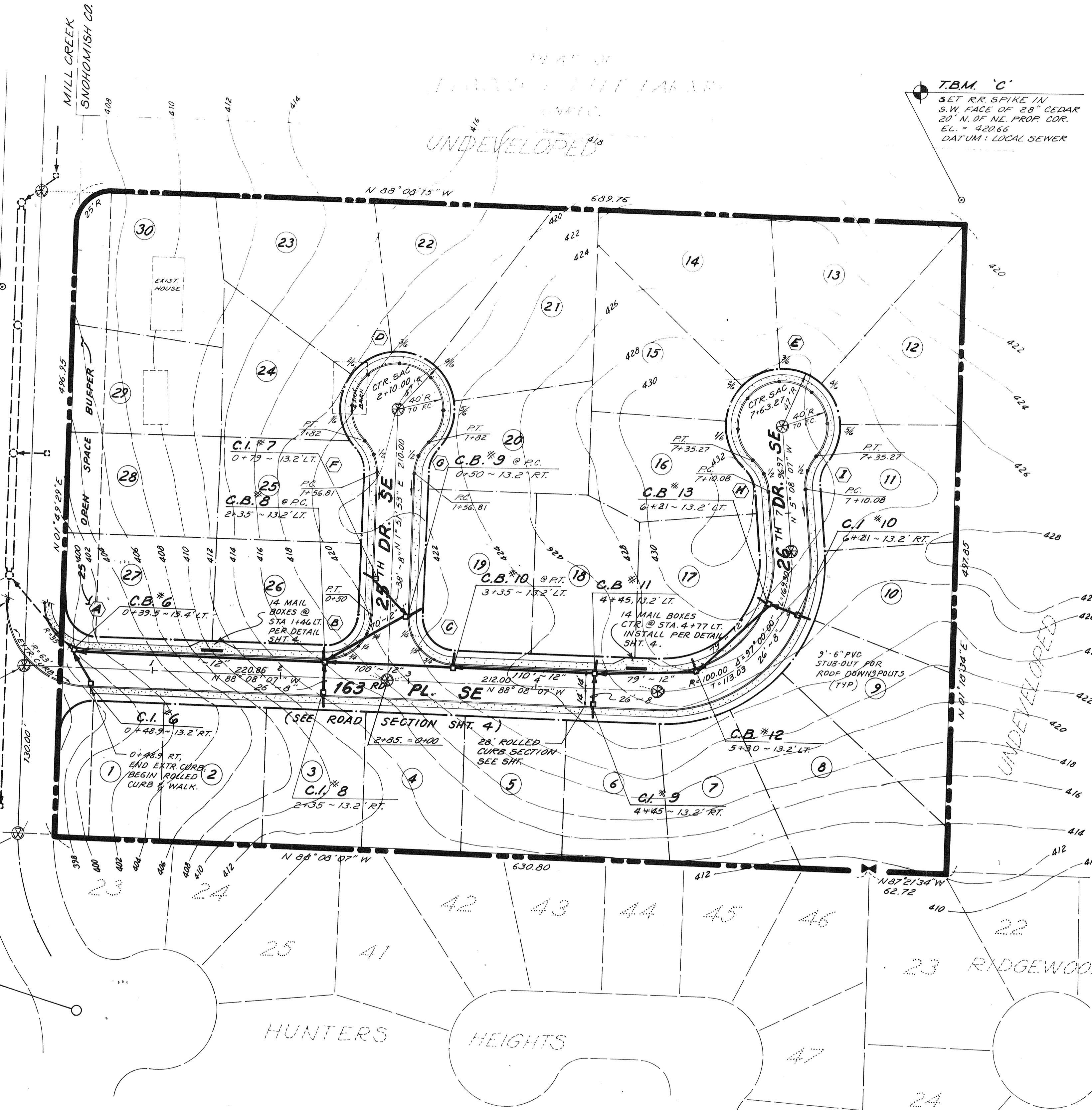
UNDEVELOPED CITY OF MILL CREEK

C.B. #5 TYPE II CONTROL STRUC. 14.78.1 LT. (25TH) END EXTRA CURB & BEGIN VERT. CURB

INTERSECT. 1+30 25TH AVE = 0+00 163 RD PL.

MILL CREEK SNOHOMISH COUNTY 0+00 25TH AVE.

TBM 'B' N. RIM BAN. SEW. MAIN EL. = 398.92 DATUM: LOCAL SEWER



- GENERAL NOTES: 1. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH SNOHOMISH COUNTY STANDARDS AND SPECIFICATIONS. 2. PRIOR TO ANY SITE WORK PERTAINING TO DRAINAGE, THE CONTRACTOR SHALL CONTACT THE CHIEF INSPECTOR FOR LAND DEVELOPMENT DIVISION AT (206) 359-4444 TO SET UP SCHEDULING. 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES (WHETHER SHOWN ON THIS PLAN OR NOT) PRIOR TO BEGINNING OF CONSTRUCTION. 4. ALL PIPES SHALL BE COMPACTED TO MINIMUM OF 95% OF MAXIMUM DENSITY. 5. GRADING OUTSIDE OF THE COUNTY RIGHT-OF-WAY MUST COMPLY WITH CHAPTER 79 OF THE UNIFORM BUILDING CODE. 6. STORM SEWER PIPE MAY BE: A. PLAIN CONCRETE PER AASHTO DESIGNATION M 86, CLASS 2. B. CORRUGATED STEEL PIPE, 16 GAUGE, GALVANIZED W/ ASPHALT TREATMENT #1 OR BETTER. (RUBBER GASKET) C. CORRUGATED ALUMINUM PIPE, 16 GAUGE, 18 R/W. (RUBBER GASKET) D. GALVANIZED STEEL SHEETING ASHTO DESIGNATION M 36, 16 GAUGE. (RUBBER GASKET) E. POLYETHYLENE GLASSFIBRE (P.V.C.) DRAIN PIPE MEETING ASHTO DESIGNATION M 278, 8" DIAMETER MAXIMUM. P.V.C. NOT ALLOWED IN THE R/W. (RUBBER GASKET) ALL PIPE SHALL HAVE CLASS "B" BEDDING UNLESS OTHERWISE NOTED. 7. DETENTION PIPE SHALL BE 1/4 GAUGE CORRUGATED STEEL PIPE 55"x12" C.M.P.A. WITH 3"x1" CORRUGATIONS AND ASPHALT TREATMENT NO. 1. CONNECTING BANGS SHALL BE MINIMUM 18" WIDE, WITH RUBBER GASKETS. COMPACTION TESTS SHALL BE REQUIRED AROUND THE PIPE. NATIVE MATERIAL WILL NOT BE ALLOWED FOR BACKFILL AROUND PIPE. 100% IMPORTED GRAVEL BASE CLASS B WILL ONLY BE ACCEPTABLE. CONTRACTOR WILL SUPPLY METHOD OF COMPACTION AND LIST EQUIPMENT PRIOR TO WORK STARTING. COMPACTON TESTS BY MODIFIED PROCTOR METHOD. 8. UNLESS OTHERWISE NOTED ALL STORM SEWER PIPE SHALL BE CONCRETE (CP) NONREINFORCED. ASTM C-14 (24" DIAMETER AND LARGER) TO BE REINFORCED. ASTM C-76, or corrugated metal (CMP) CP shall be reinforced with treatment 1 asphalt coating or better, or corrugated aluminum with treatment 1 asphalt coating or better. All pipes shall have rubber gaskets. CP indicates concrete pipe will be required. CMP indicates corrugated metal pipe may be used instead of concrete pipe. Areas to be rough-graded with finish grading to follow near project completion are to be seeded with annual, perennial or hybrid ryegrass. This includes perimeter dikes and the sediment basin embankment. HYDRO-SEED preferred. Immediately following finish grading, permanent vegetation (consisting of rapid, persistent and legume) will be applied. (Minimum 80% per acre) This is to include the following: 20% Annual, perennial or hybrid ryegrass 40% Creeping Red Fescue 40% White Clover HYDRO-SEED preferred. FERTILIZER: Shall be applied at 400# per acre of 10-20-20 (10 pounds per 1000 square feet) or equivalent. PREPARATION OF SURFACE: All areas to be seeded shall be cultivated to the satisfaction of the county inspector. This may be accomplished by discing, raking, harrowing or other acceptable means. PIPE SPECIFICATIONS: Galvanized steel pipe shall meet the requirements of AASHTO designation M-36, type 1 & type 2. Pipe to be helical with 2 1/2" X 1/2" corrugations and shall have asphalt treatment 1 or better. STEEL: Gage Pipe Arch Band Size 16 12"-36" 17x13 thru 42x29 12" 14 42"-48" 48x33 15" 12 54"-60" 57x38 & 64x43 24" ALUMINUM: Gage Pipe Arch Band Size 16 12"-36" 17x13 thru 42x29 12" 14 30"-36" 28x20 & 35x24 18" 12 42"-54" 42x28 & 48x33 18" 10 60" 57x38 & 64x43 24" All non-perforated metal pipe shall have neoprene gaskets at the joints. Backfill trench of new utilities shall be compact to 95% relative compaction under roadway and 80% relative compaction off roadways, as specified in Section 2-03.3(14)D and Section 2-03.3(14)B. Prior to sidewalk construction, the County Inspector will evaluate individual lot drainage and direct the installation of catch basin stubouts and behind sidewalk trench drains as required. Stubs shall be marked with a 2"x4". Locations of these installations shall be placed on the as-built construction plans and submitted to the County. Storm water retention/detention facilities must be constructed and maintained in accordance with Snohomish County requirements. Provide and maintain the temporary sedimentation collection facilities to insure sediment laden waters does not enter the natural drainage system. All disturbed areas shall be performed in accordance with county standards. Pre-construction soil investigation may be required to evaluate soils stability. If cut and fill slopes exceed a maximum of two feet horizontal to one foot vertical, a rock or concrete retaining wall will be required. All rock retaining walls are to follow county specifications and to be designed and certified by a civil engineer experienced in soils mechanics. Vegetation shall be established on areas disturbed or on areas of construction as necessary to minimize erosion. Stoppiles are to be located in safe areas and adequately protected by temporary seeding and mulching. HYDRO-SEED preferred.

GENERAL NOTES (CONTINUED)

All work and materials shall be in accordance with Snohomish County Standards and Specifications and Washington State Department of Transportation 1984 Standard Specifications for Road, Bridge, and Municipal Construction.

All work within the site and county right-of-way shall be subject to the inspection of the county engineer or his designated representative.

The temporary erosion/sedimentation control facility shall be constructed prior to any grading or extensive land clearing in accordance with the approved temporary erosion/sedimentation control plan. These facilities must be satisfactorily maintained until construction and landscaping is completed and the potential for on-site erosion has passed.

Unless otherwise noted all storm sewer pipe shall be concrete (CP) nonreinforced. ASTM C-14 (24" diameter and larger) to be reinforced. ASTM C-76, or corrugated metal (CMP) CP shall be reinforced with treatment 1 asphalt coating or better, or corrugated aluminum with treatment 1 asphalt coating or better. All pipes shall have rubber gaskets.

CP indicates concrete pipe will be required. CMP indicates corrugated metal pipe may be used instead of concrete pipe.

Areas to be rough-graded with finish grading to follow near project completion are to be seeded with annual, perennial or hybrid ryegrass. This includes perimeter dikes and the sediment basin embankment. HYDRO-SEED preferred.

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PIPE SPECIFICATIONS: Galvanized steel pipe shall meet the requirements of AASHTO designation M-36, type 1 & type 2. Pipe to be helical with 2 1/2" X 1/2" corrugations and shall have asphalt treatment 1 or better.

Table with columns: Gage, Pipe, Arch, Band Size. Lists specifications for STEEL and ALUMINUM pipes.

All non-perforated metal pipe shall have neoprene gaskets at the joints.

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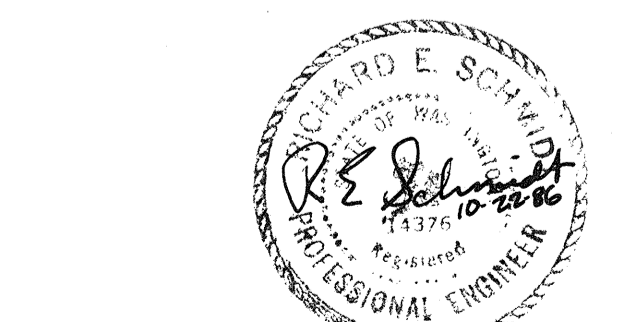
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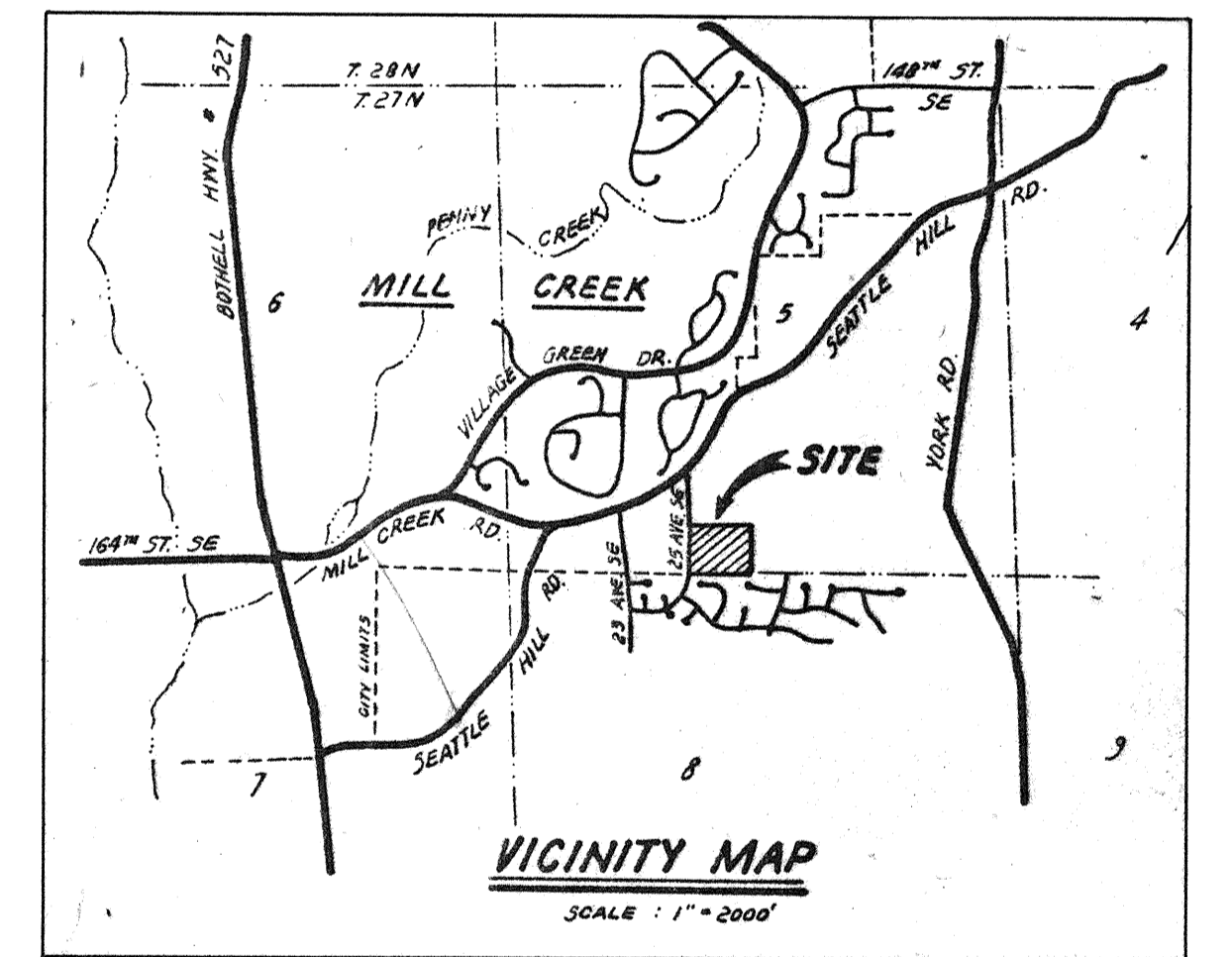
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REV. 1 12-11-90 RED REV. 2 3-6-87 RED

INDEX

Table with columns: SHT. NO., DESCRIPTION. Lists sheets 1 through 5 and their descriptions.



APPROVED FOR: Randolph R. Riegler, G.E. WEED, DIRECTOR DATE: 4/23/87 CONSTRUCTION SNO. CO. DEPT. OF PUBLIC WORKS

MAILBOX LOCATIONS APPROVED BY: MICHAEL MAHER DATE: FEB. 27, 1987 SUPERINTENDENT POSTAL OPERATIONS, BOTHELL

ROAD & STORM PLAN

FOR: MILL CREEK SOUTH DEVELOPER: KEN LONG & DICK SCHMIDT

13322 HWY. 99 SOUTH EVERETT, WA 98204 PHONE (206) 745-1594

Western Surveyors Inc. LAND USE CONSULTANTS CIVIL ENGINEERS & LAND SURVEYORS 13322 Highway 99 South • Everett, WA 98204 • (206) 745-1594

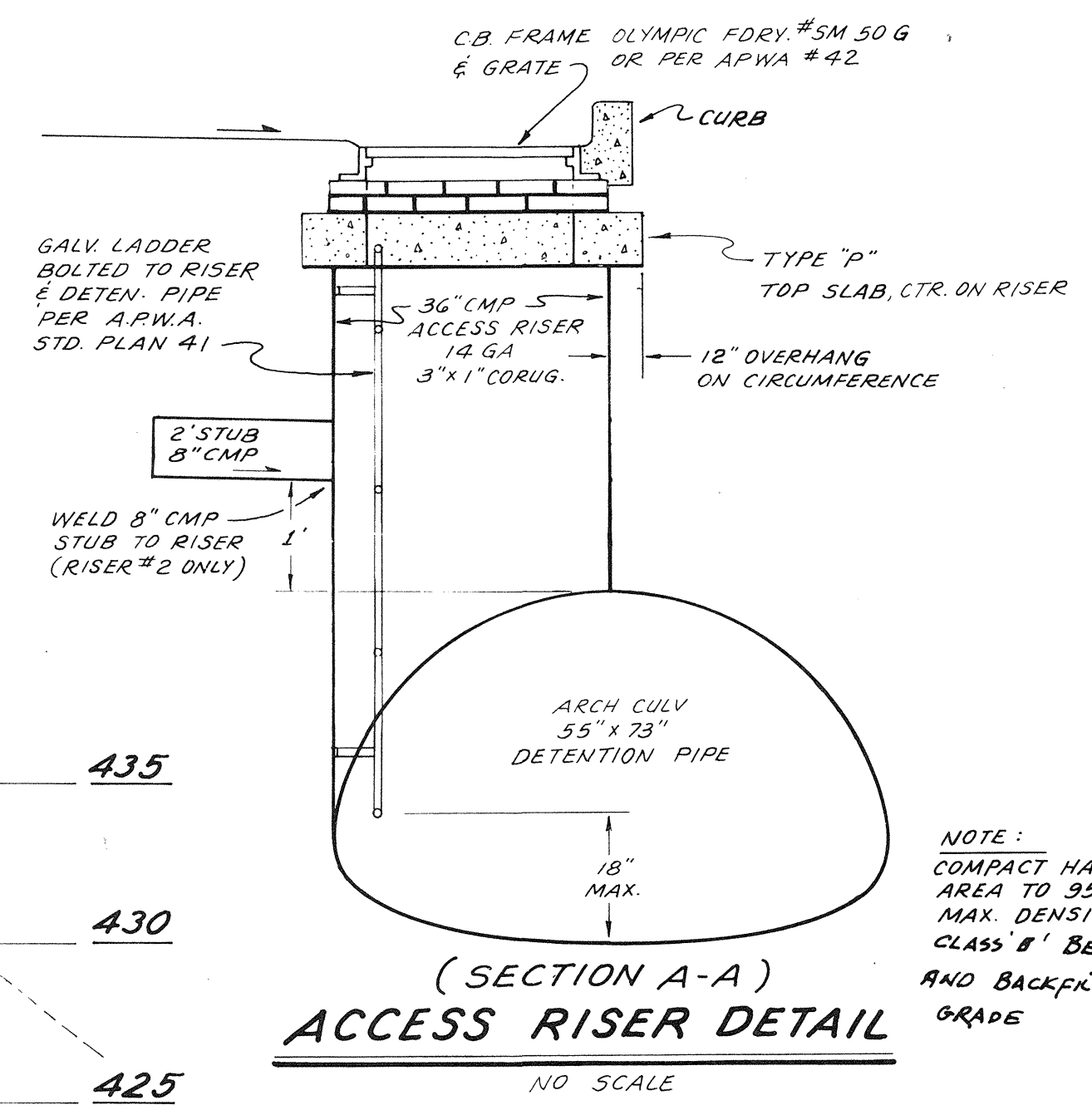
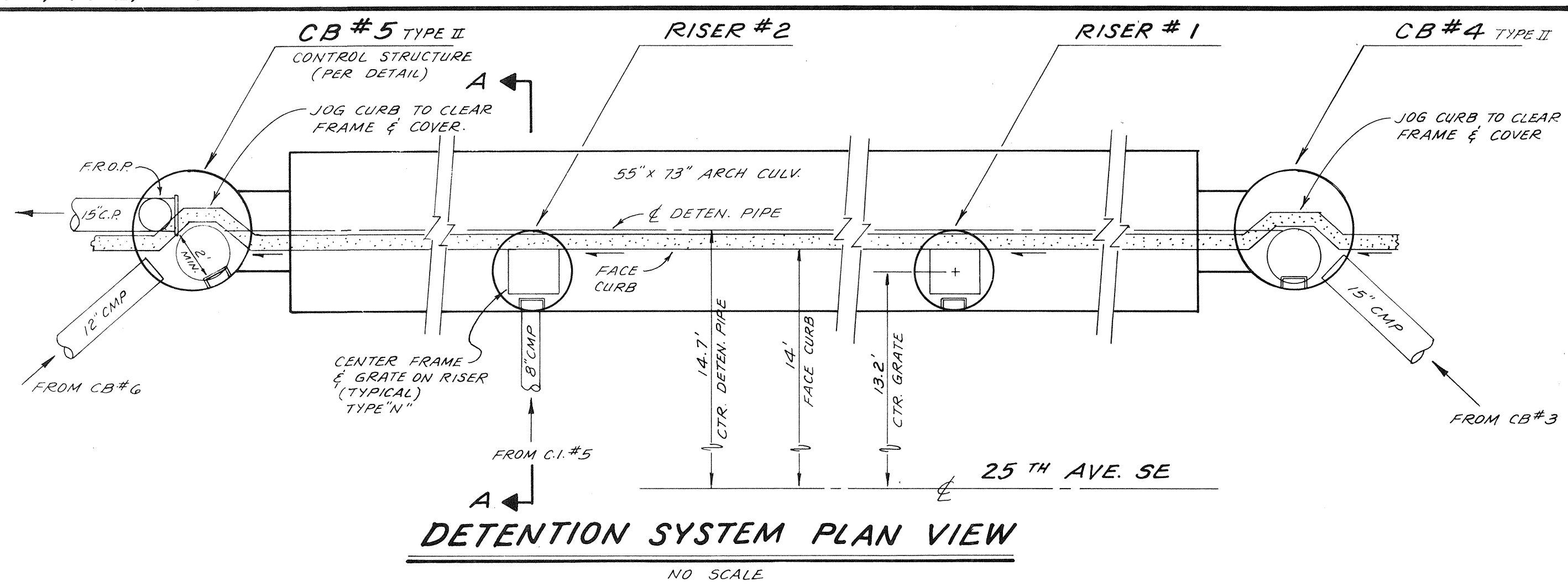
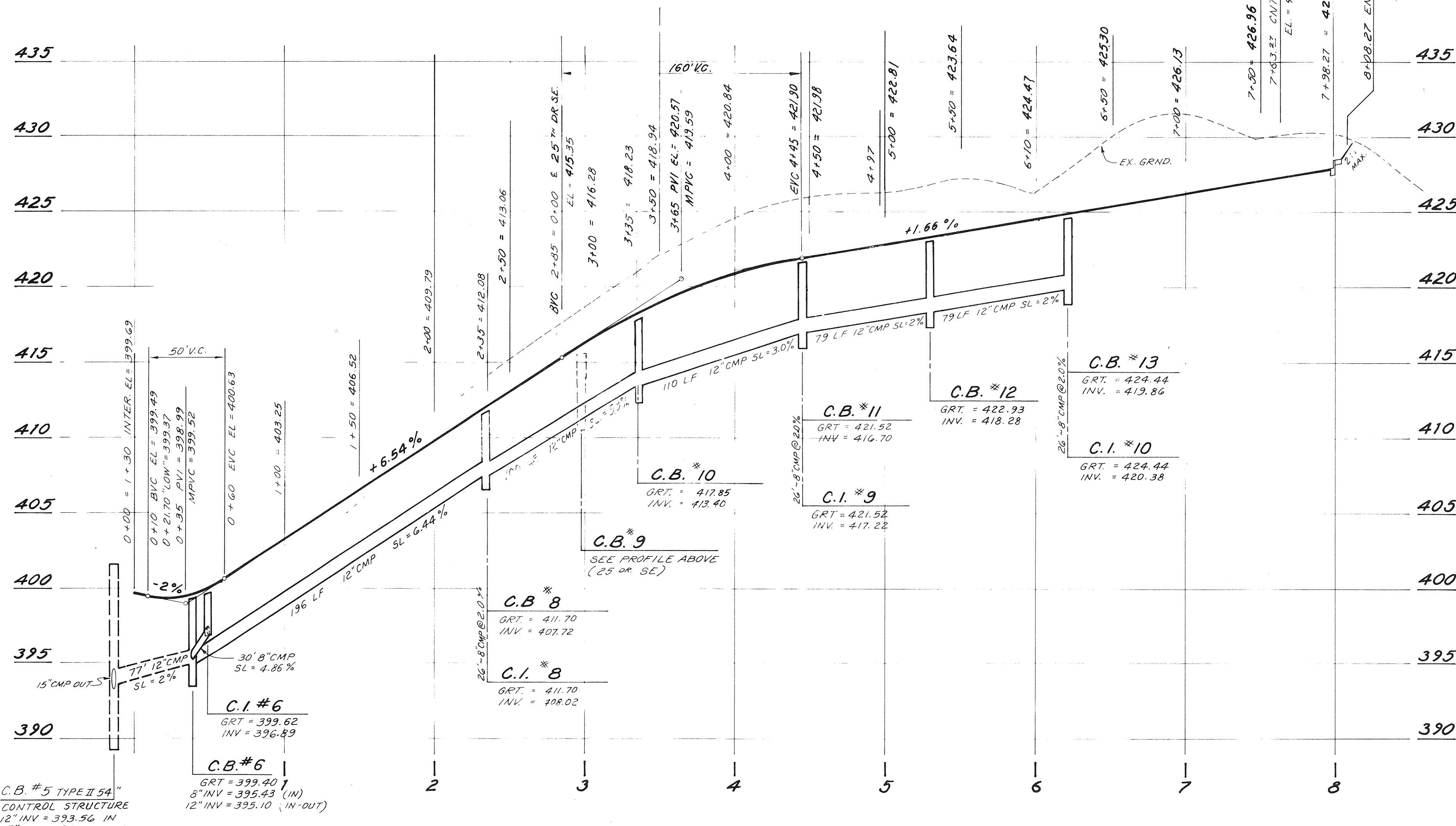
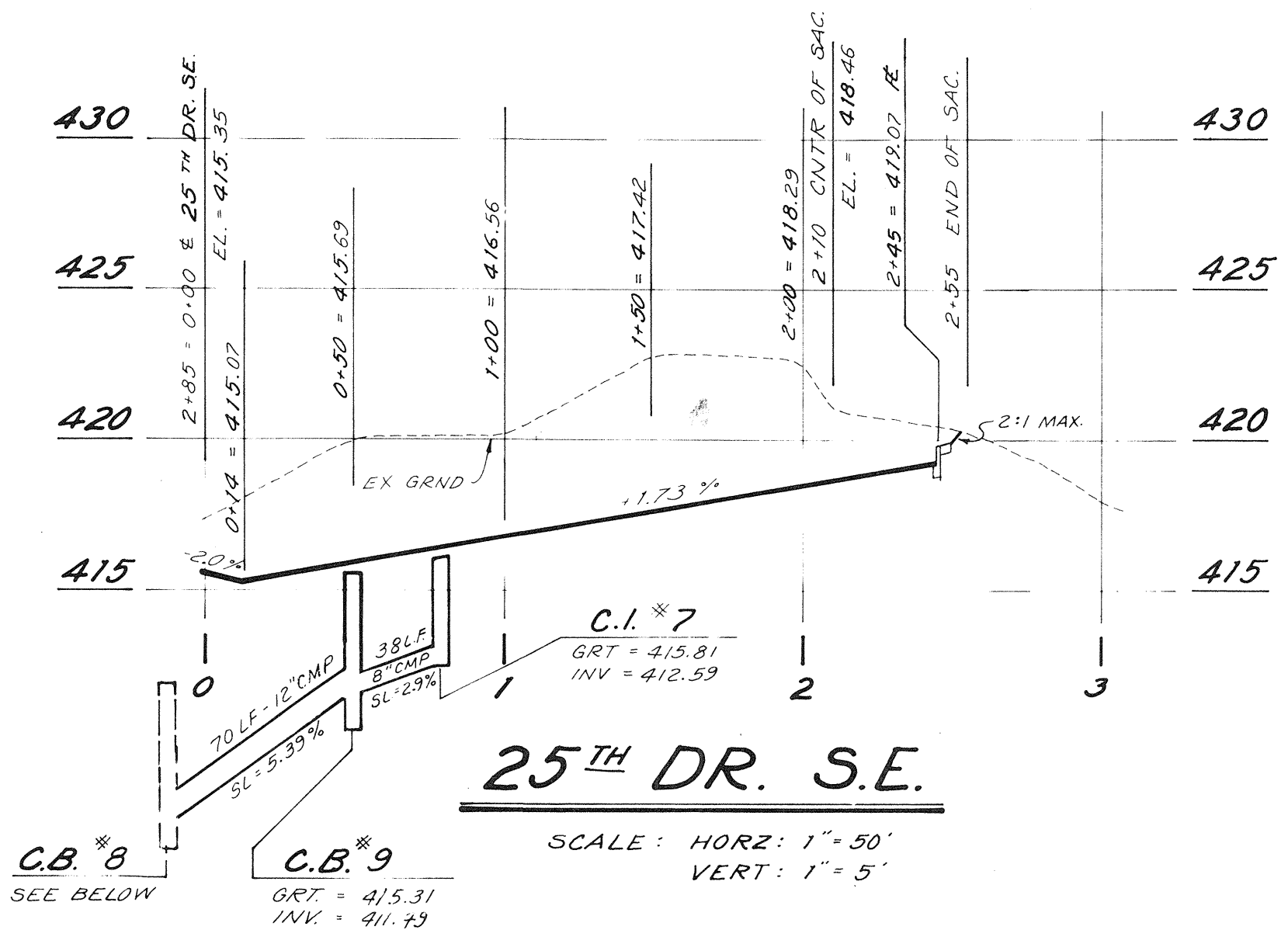
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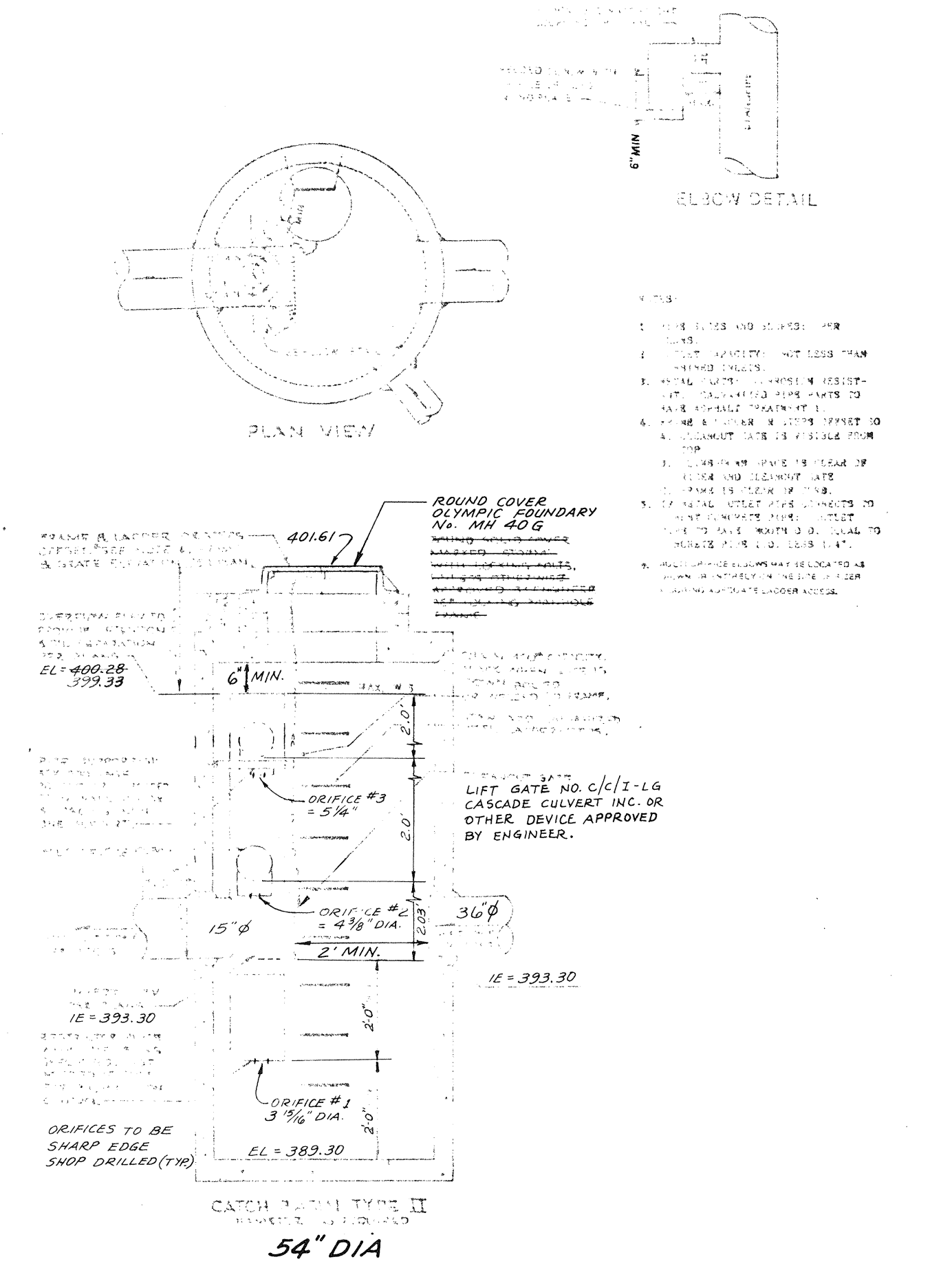
Table with columns: A, B, C, D, E, F, G, H, I. Lists curve data for various sections.

CONSTRUCTION SCHEDULE

- 1) INSTALL T.E.S.C.P. (SEE SHT. 5) 2) CLEARING & GRADING (SEE SHT. 5) 3) SEWER AND WATER MAIN (A.W.D. PLANS) 4) STORM DRAINAGE FACILITIES 5) CURBS AND SIDEWALKS 6) PAVE STREETS

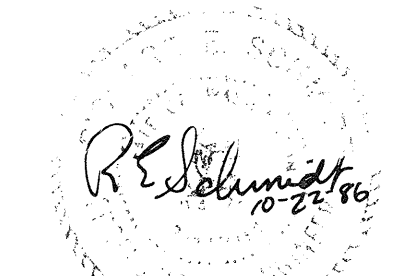


NOTE:  
COMPACT HAUNCH  
AREA TO 95%  
MAX. DENSITY.  
CLASS 8" BEDDING  
AND BACKFILL TO  
GRADE



APPROVED FOR: *Randolph P. R. Wright* GE WEED, DIRECTOR DATE: 4/23/87  
CONSTRUCTION DEPT. OF PUBLIC WORKS

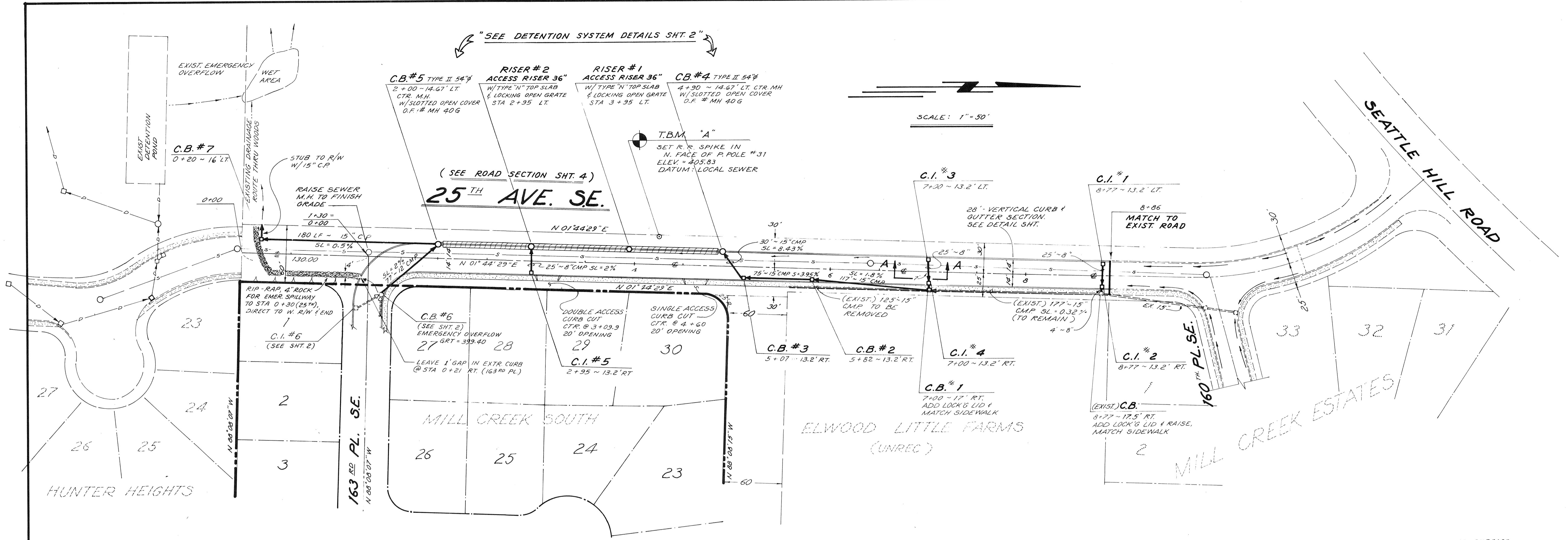
REV 2: REV ROAD & STORM PROFILES @ INTERSECTION  
25TH AVE & 163RD PL. 4-10-87 A.J.  
REV 1: REV ROAD & STORM DR. PROFILE, 12-11-86 D.S.



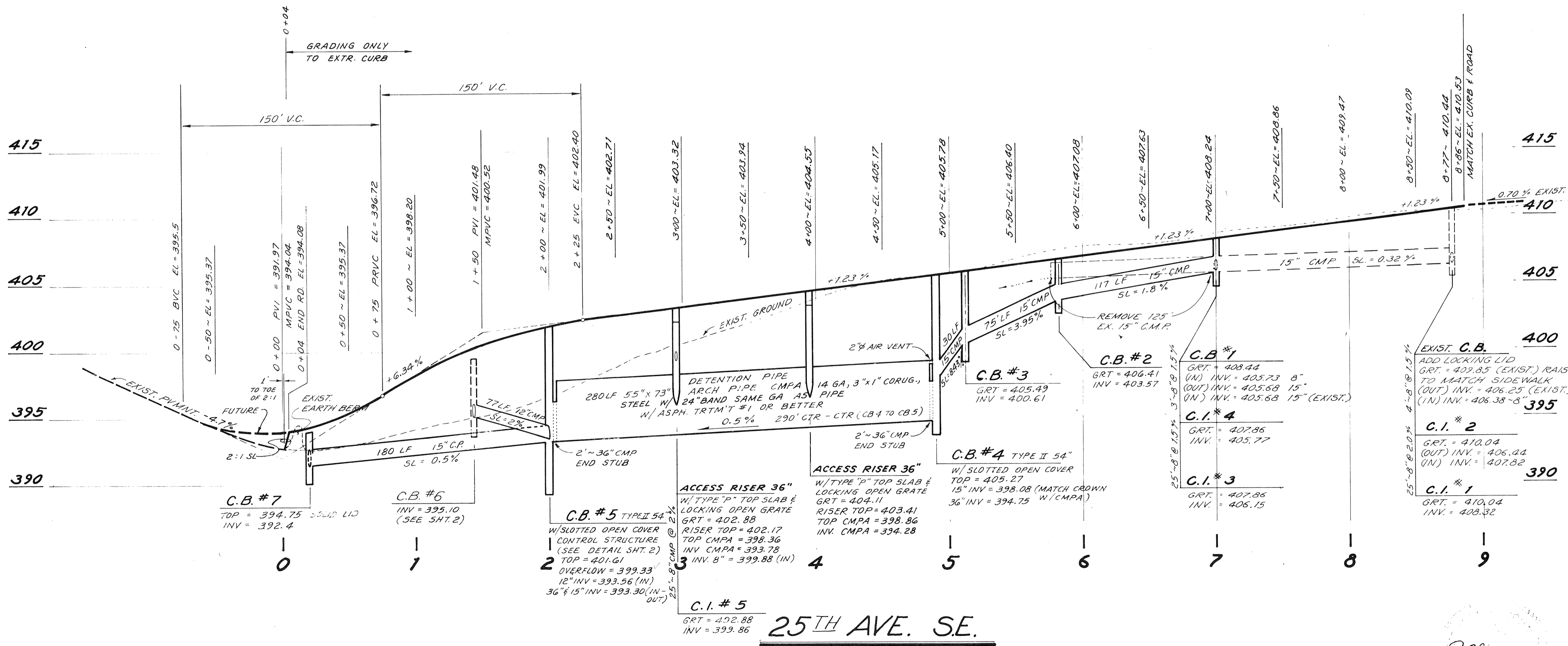
REV 1 12-11-86 RES  
REV 2 3-6-87 RES

<b>ROAD &amp; STORM PROFILES</b> FOR: <b>MILL CREEK SOUTH</b> DEVELOPER: <b>KEN LONG &amp; DICK SCHMIDT</b> 13322 HWY. 99 SOUTH EVERETT, WA 98204 PHONE (206) 745-1594		<p><b>Western Surveyors Inc.</b> LAND USE CONSULTANTS CIVIL ENGINEERS • LAND SURVEYORS 13322 Highway 99 South • Everett, WA 98204 • (206) 745-1594</p>
DOWN BY DATE KAM 8-29-86 CHKD BY DATE EVB	PROJECT MANAGER E. J. BONE SHEET 2 OF 5	SCALE AS SHOWN JOB NO. 84-005

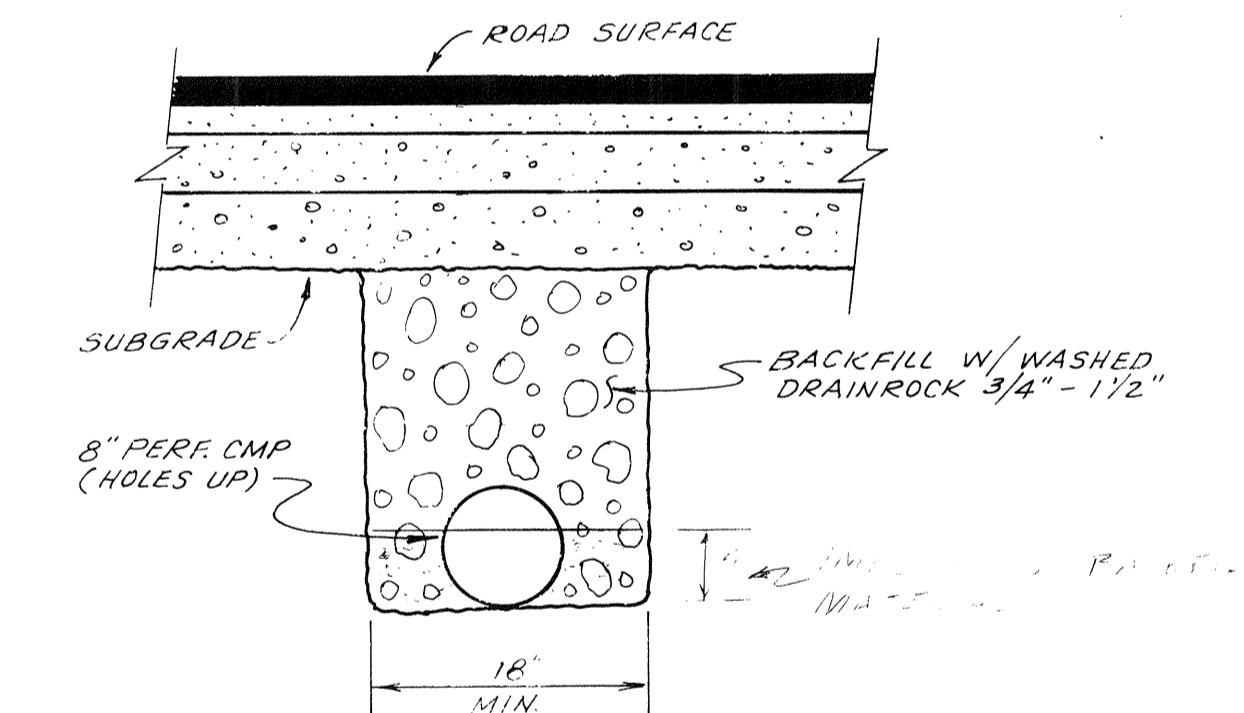




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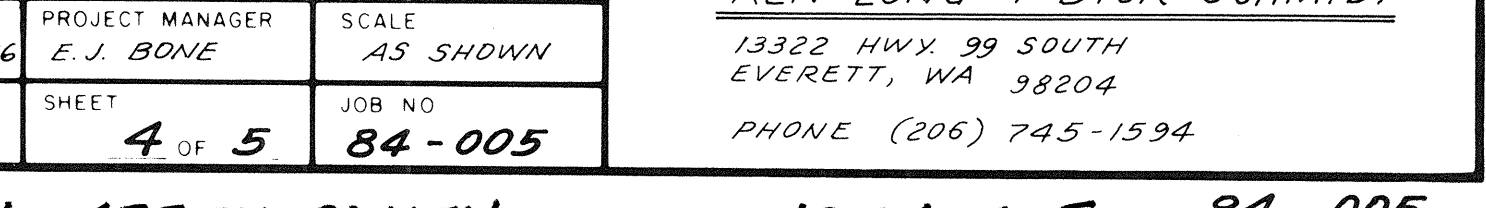
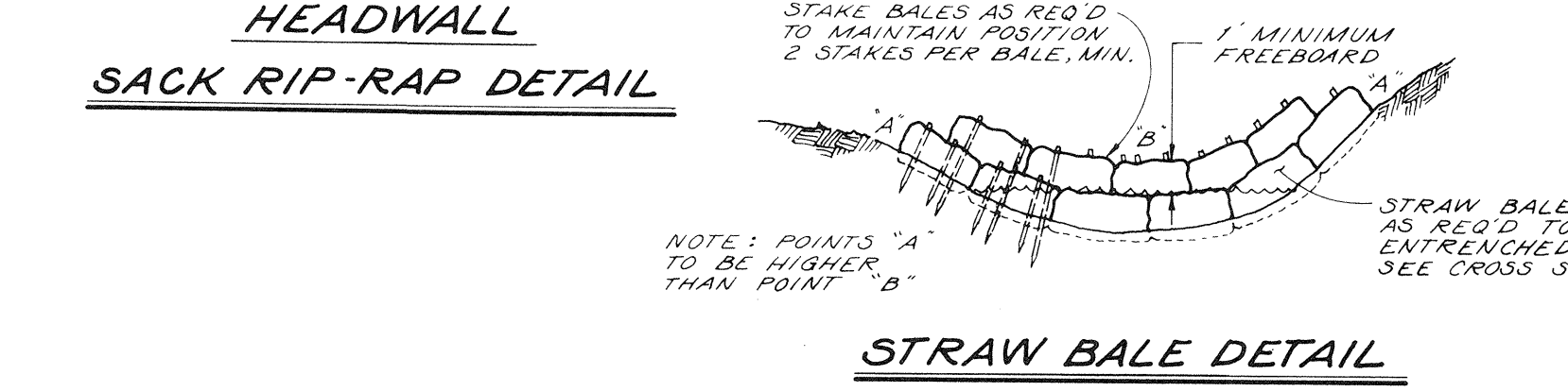
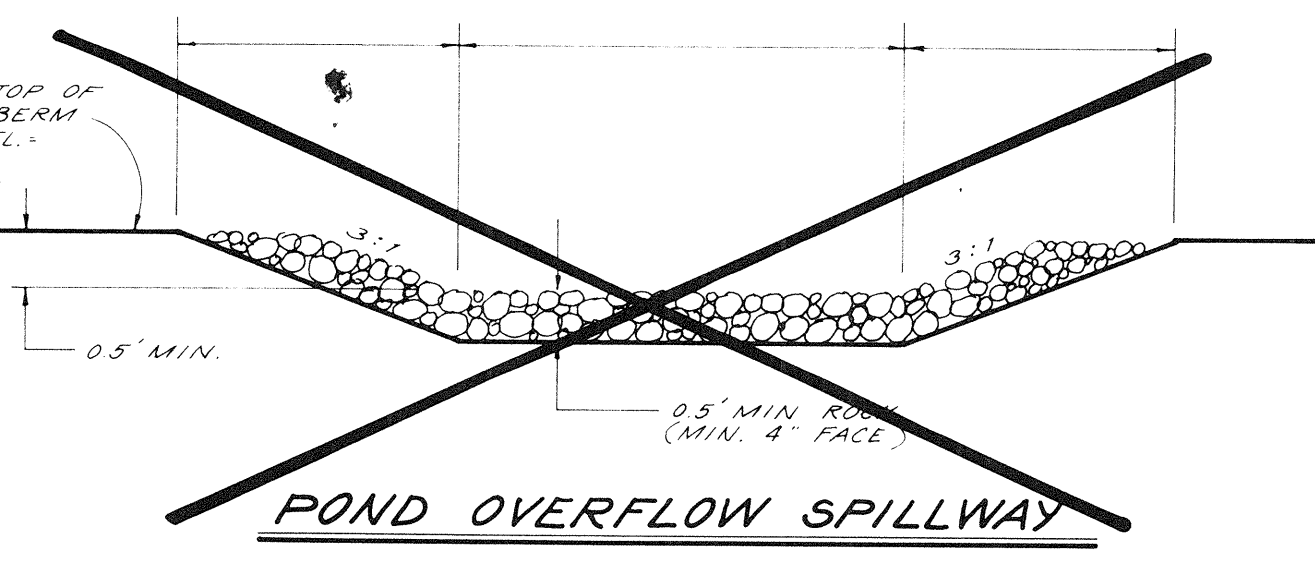
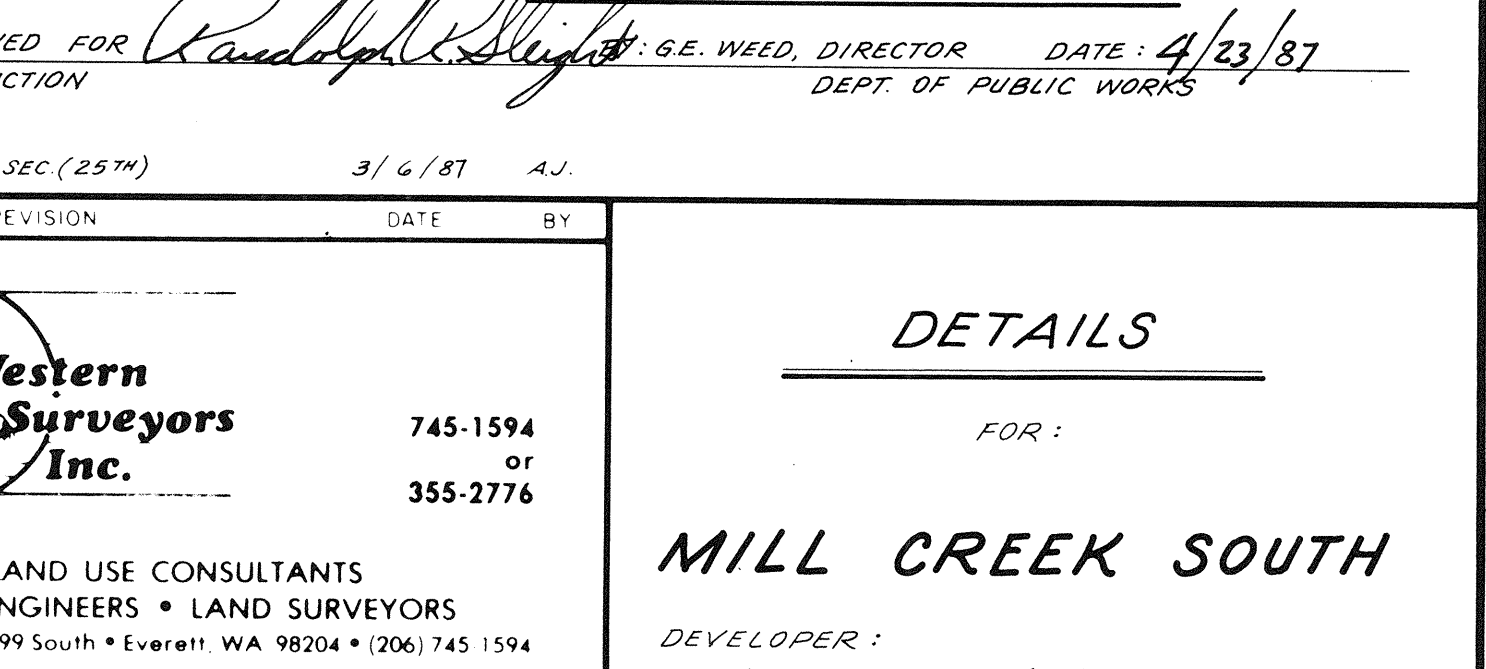
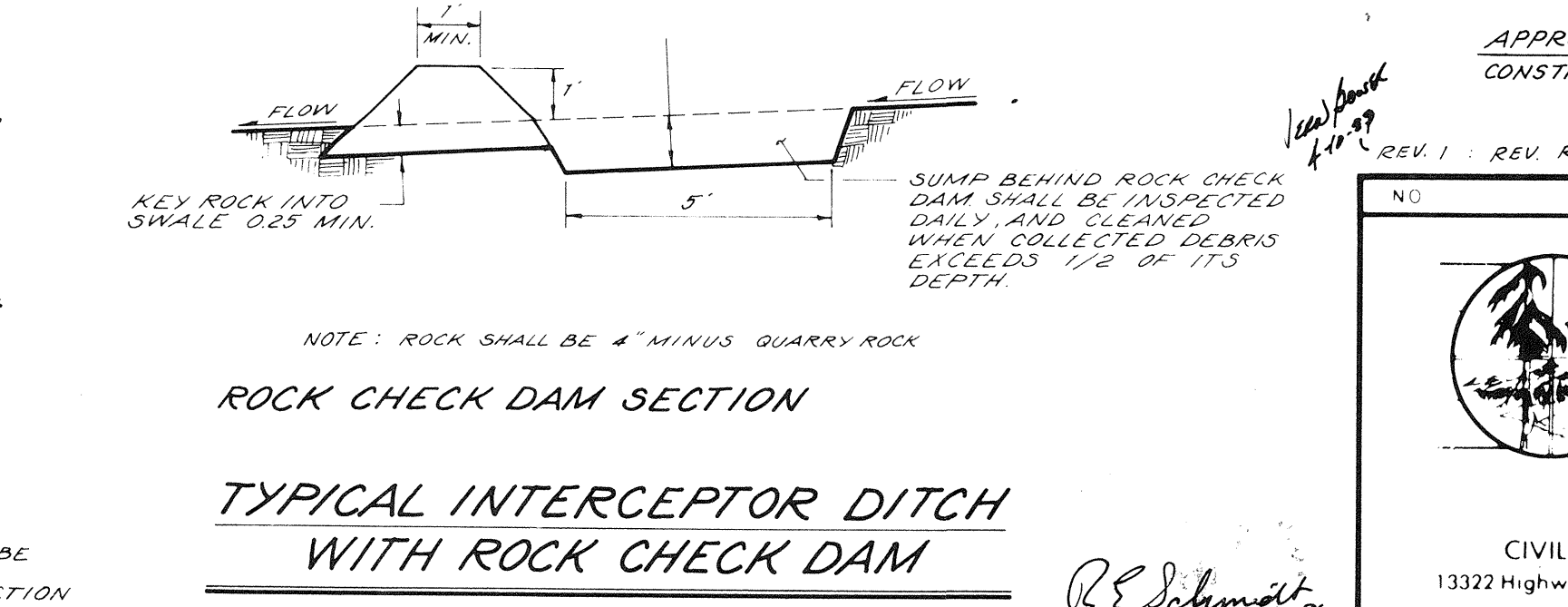
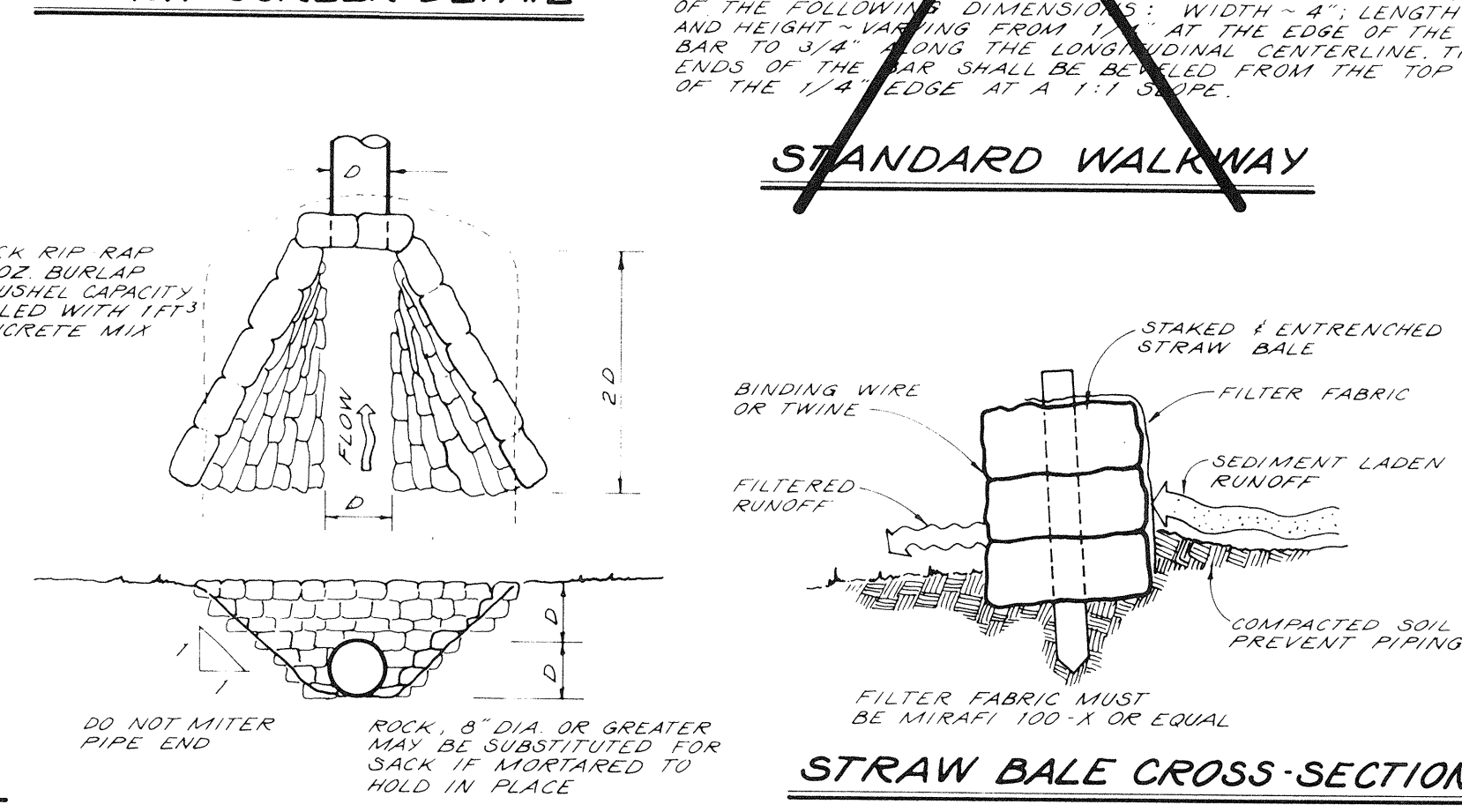
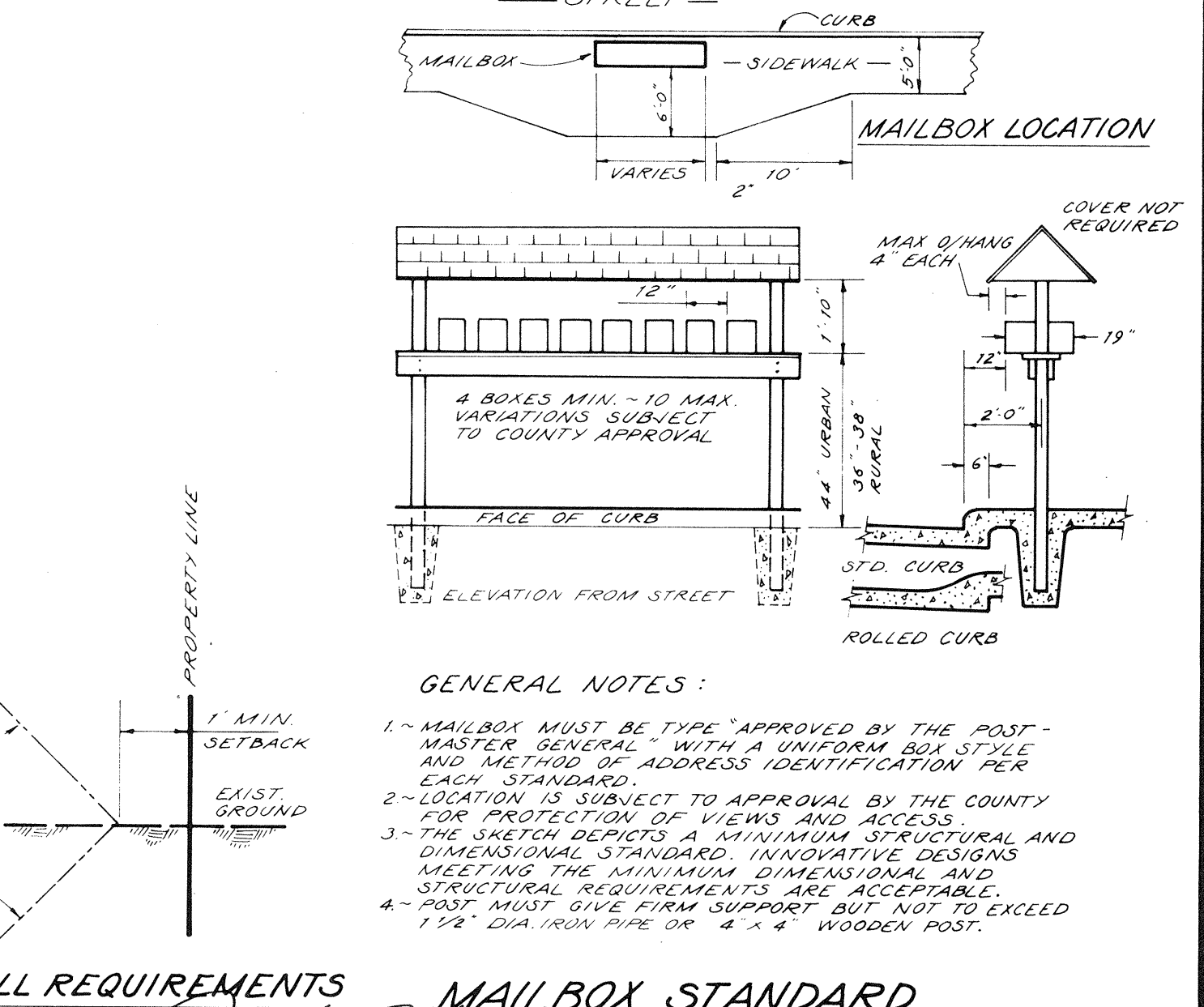
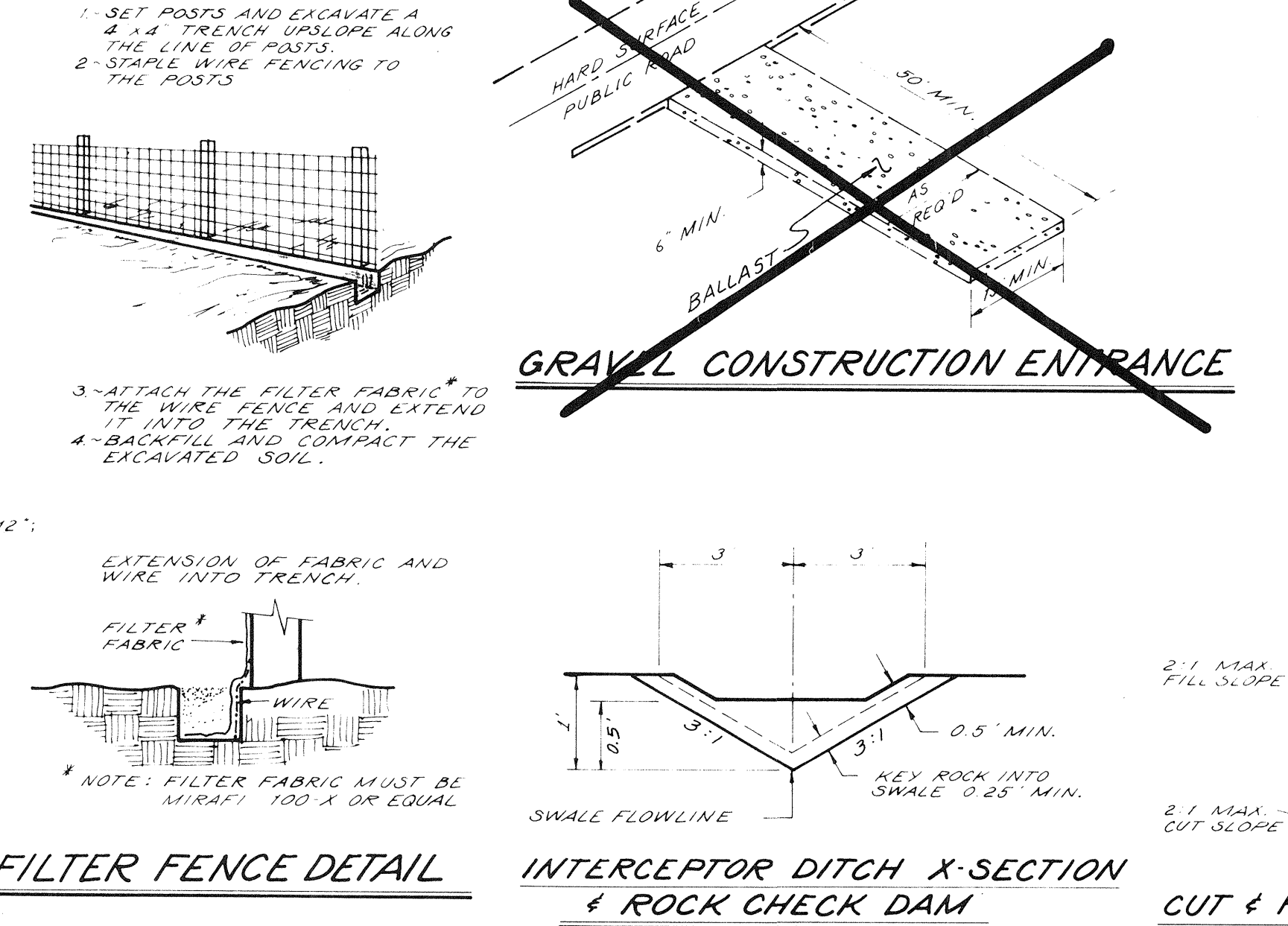
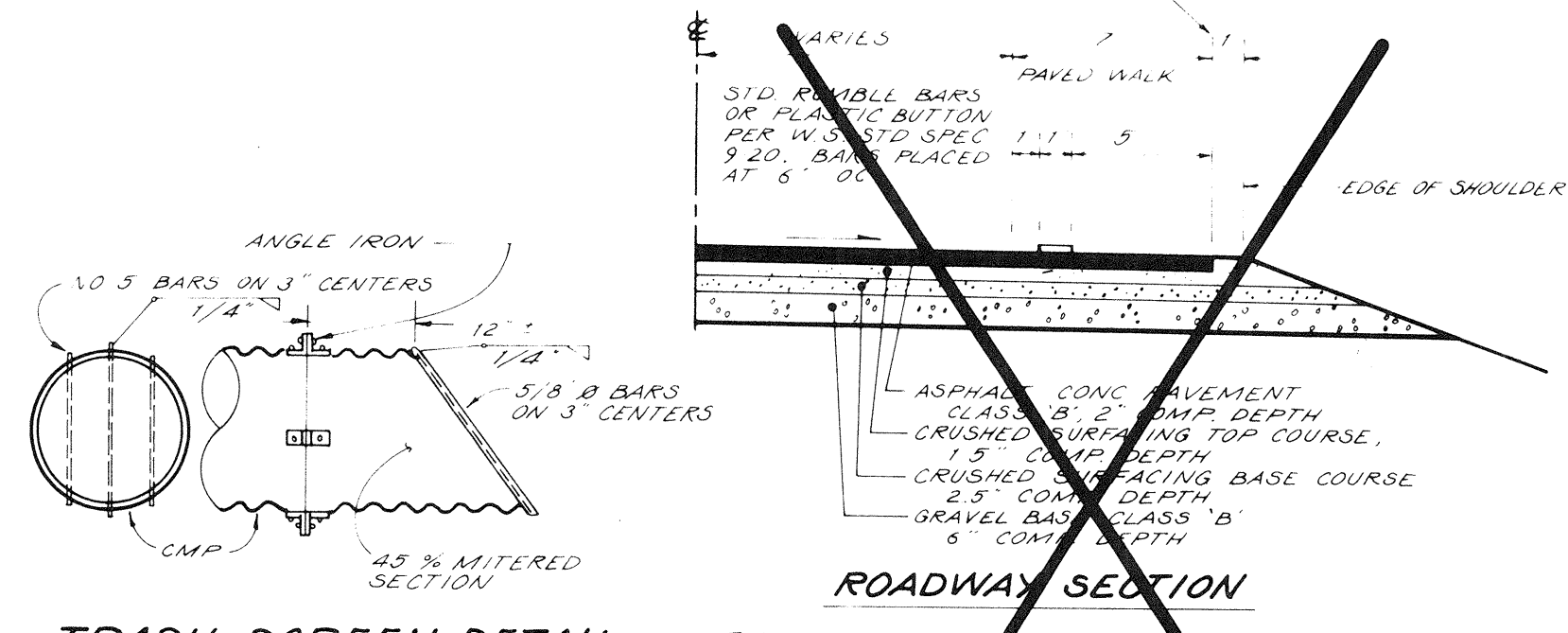
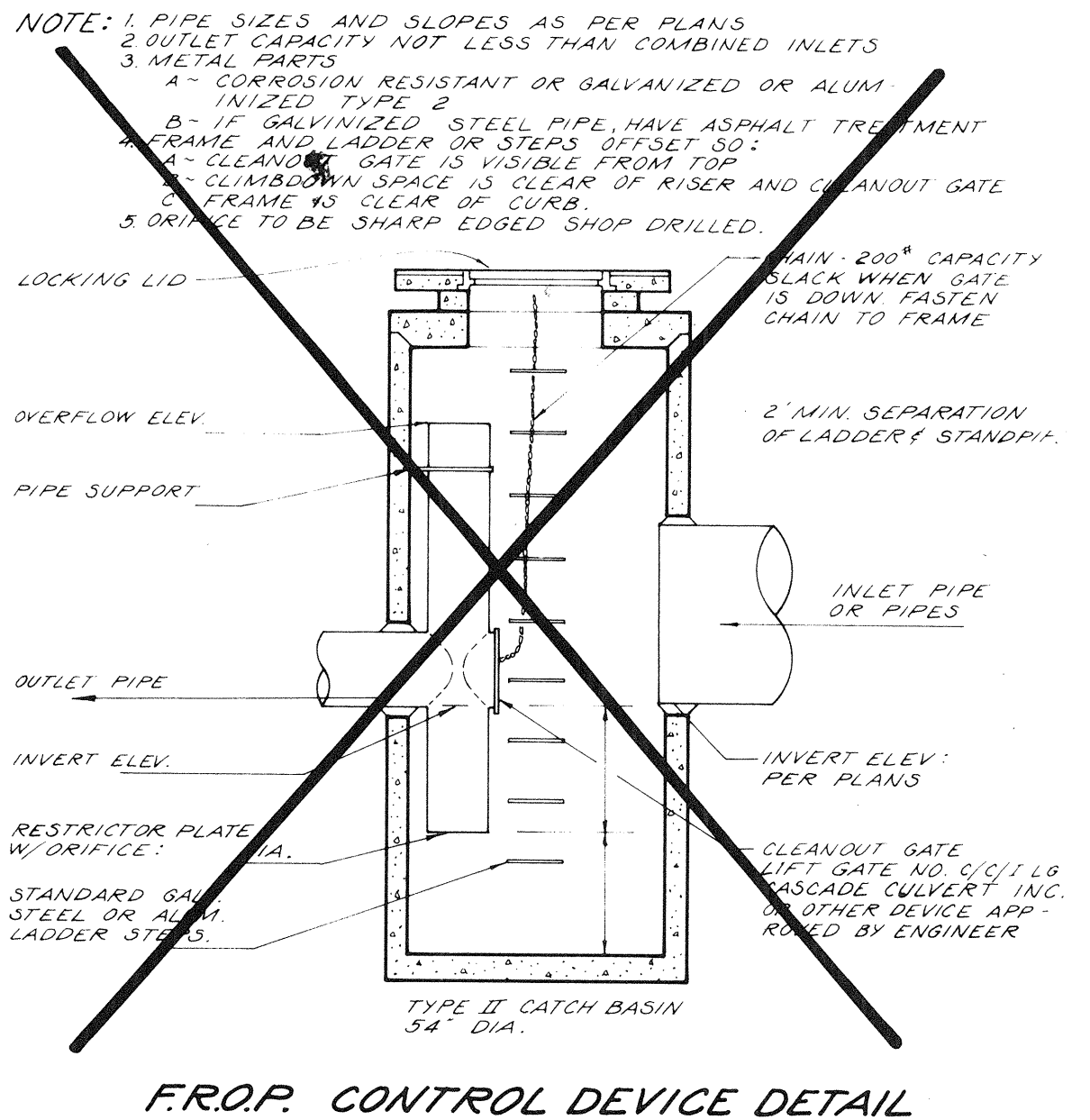
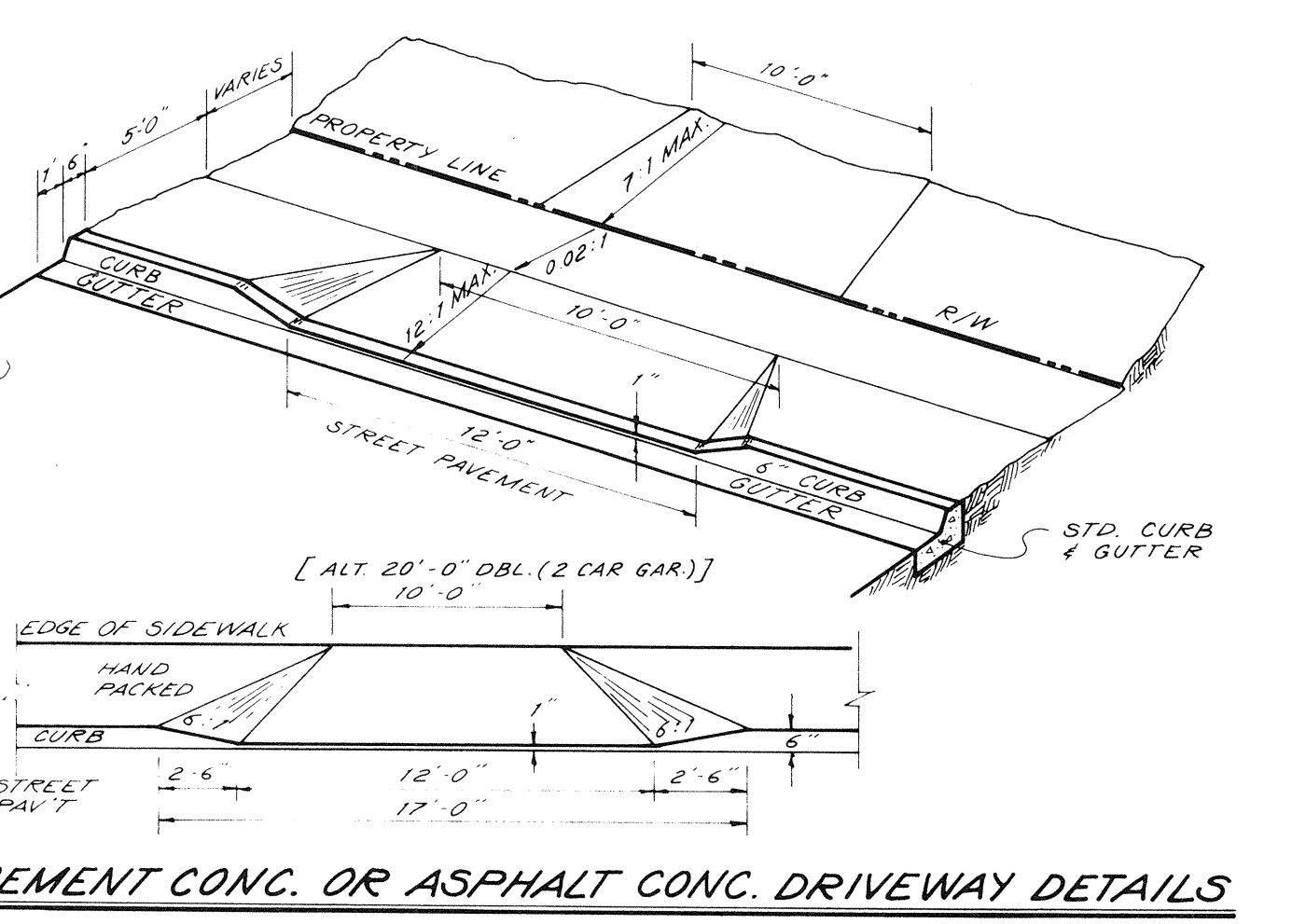
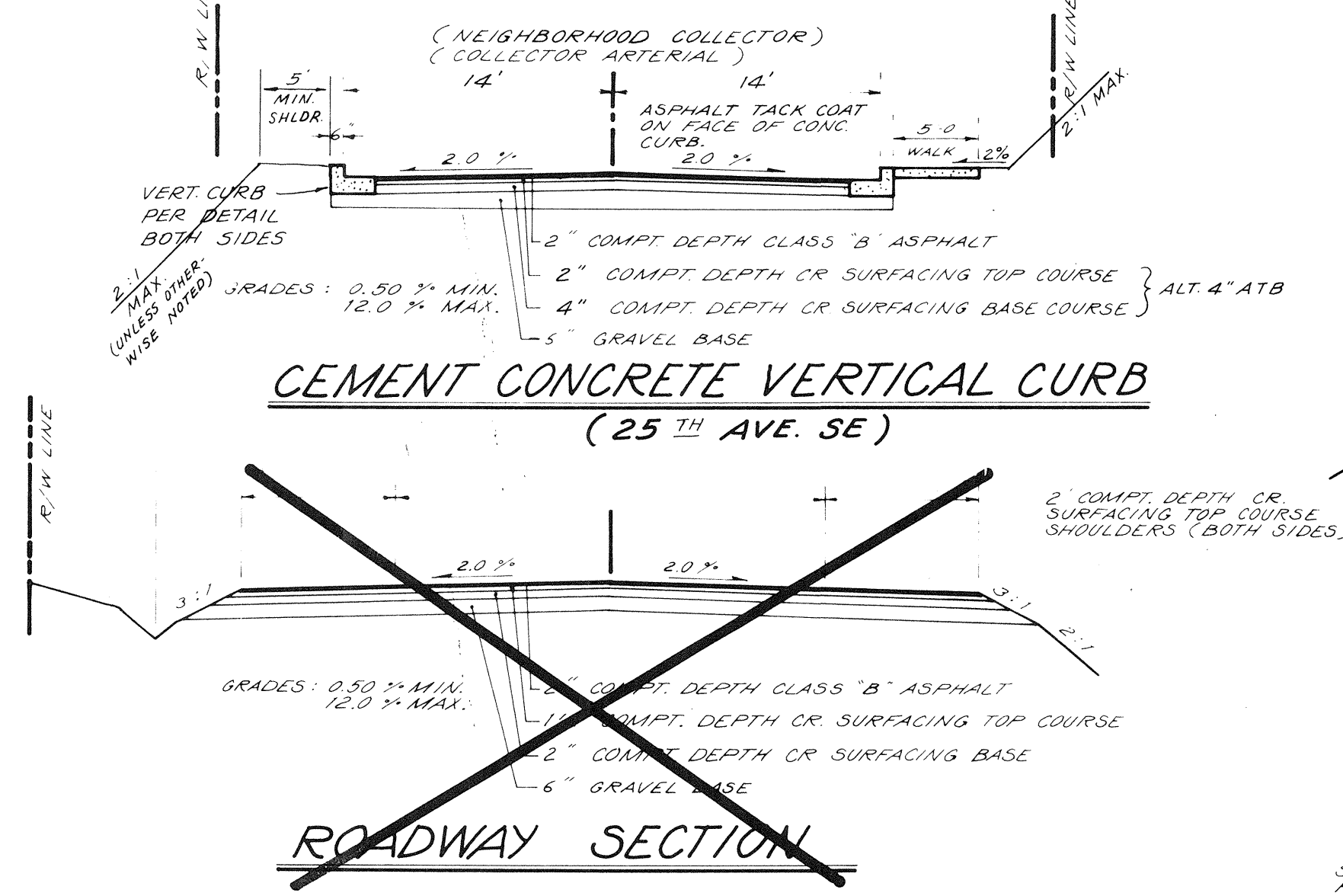
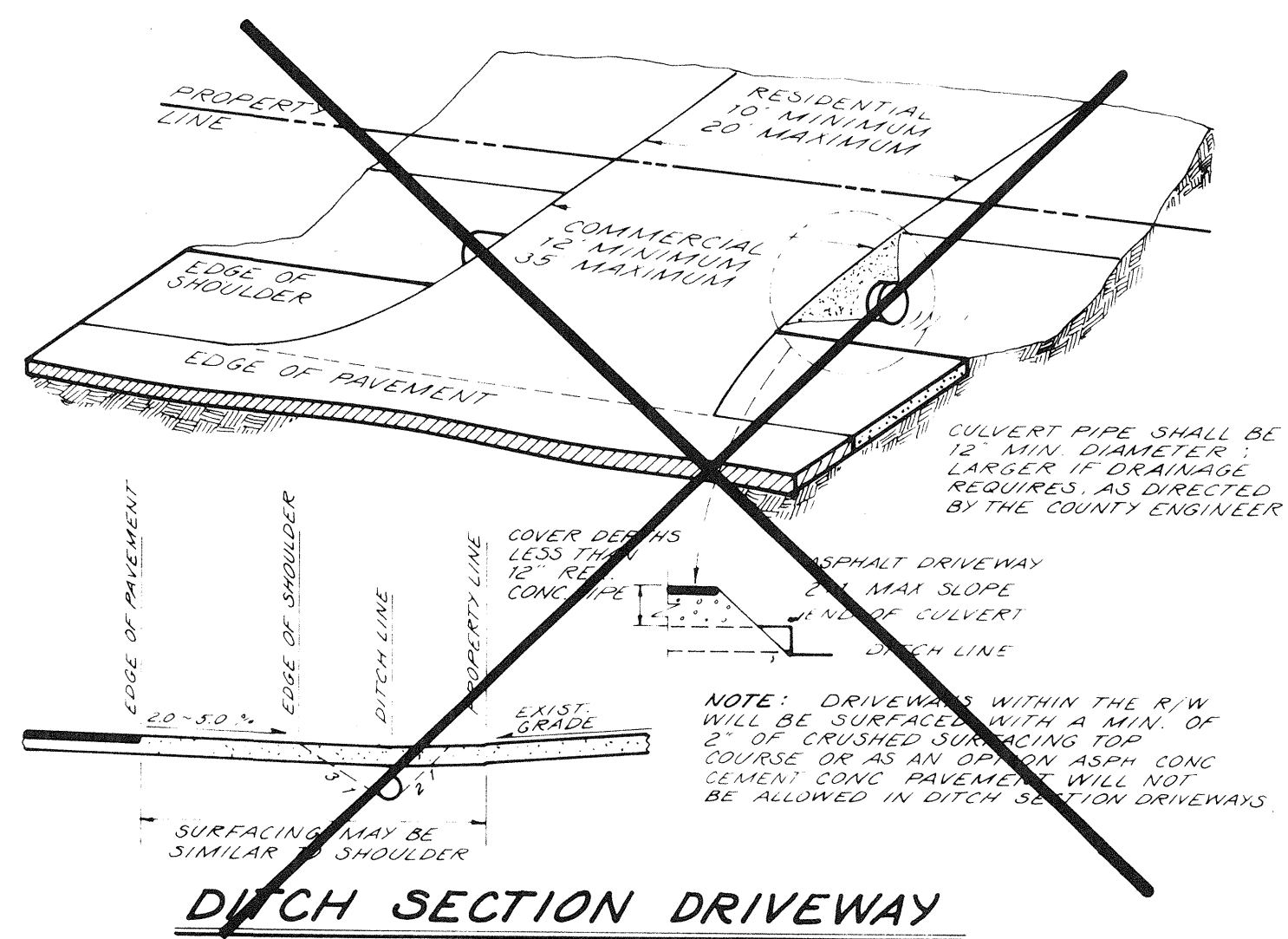
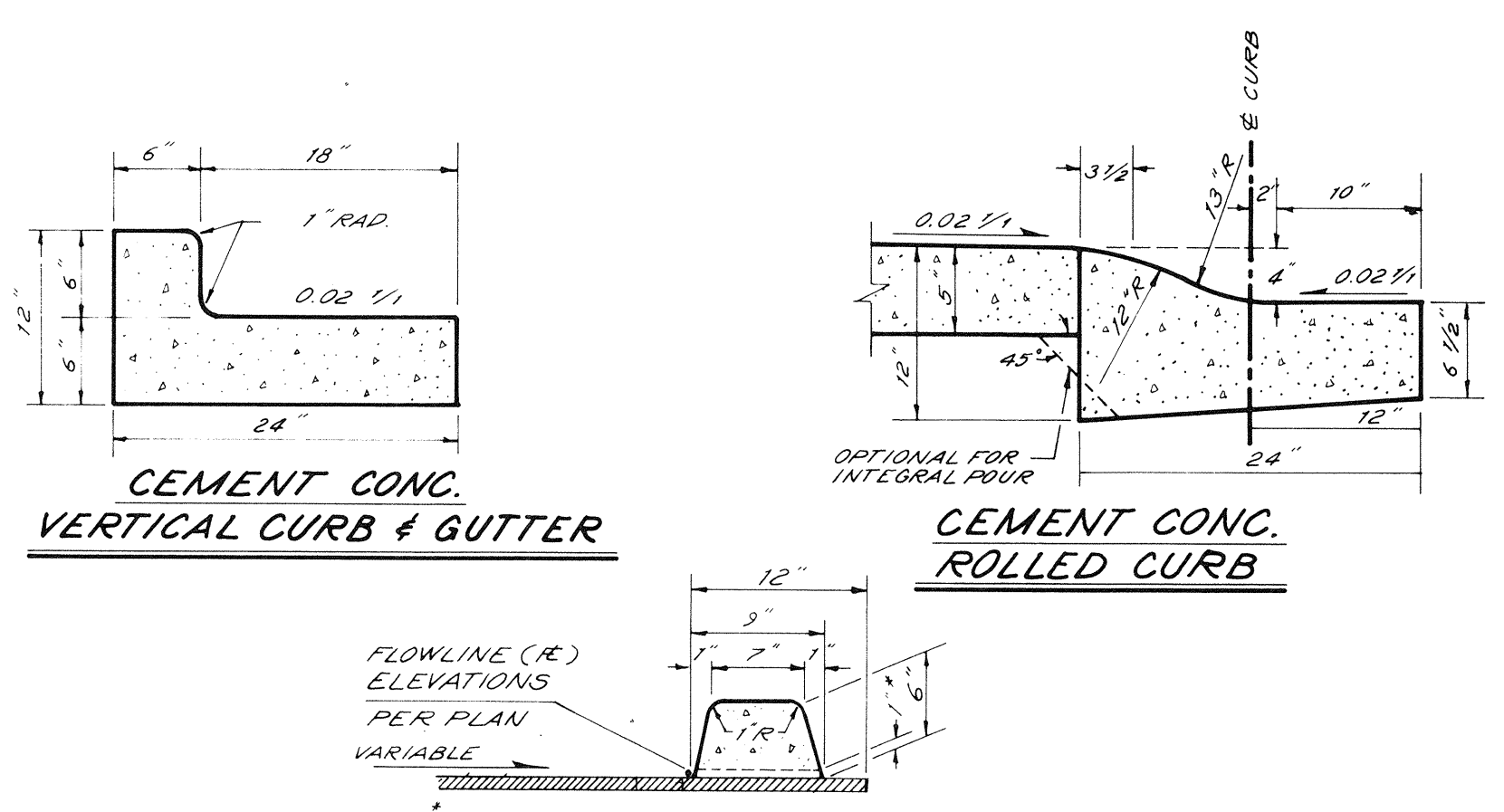
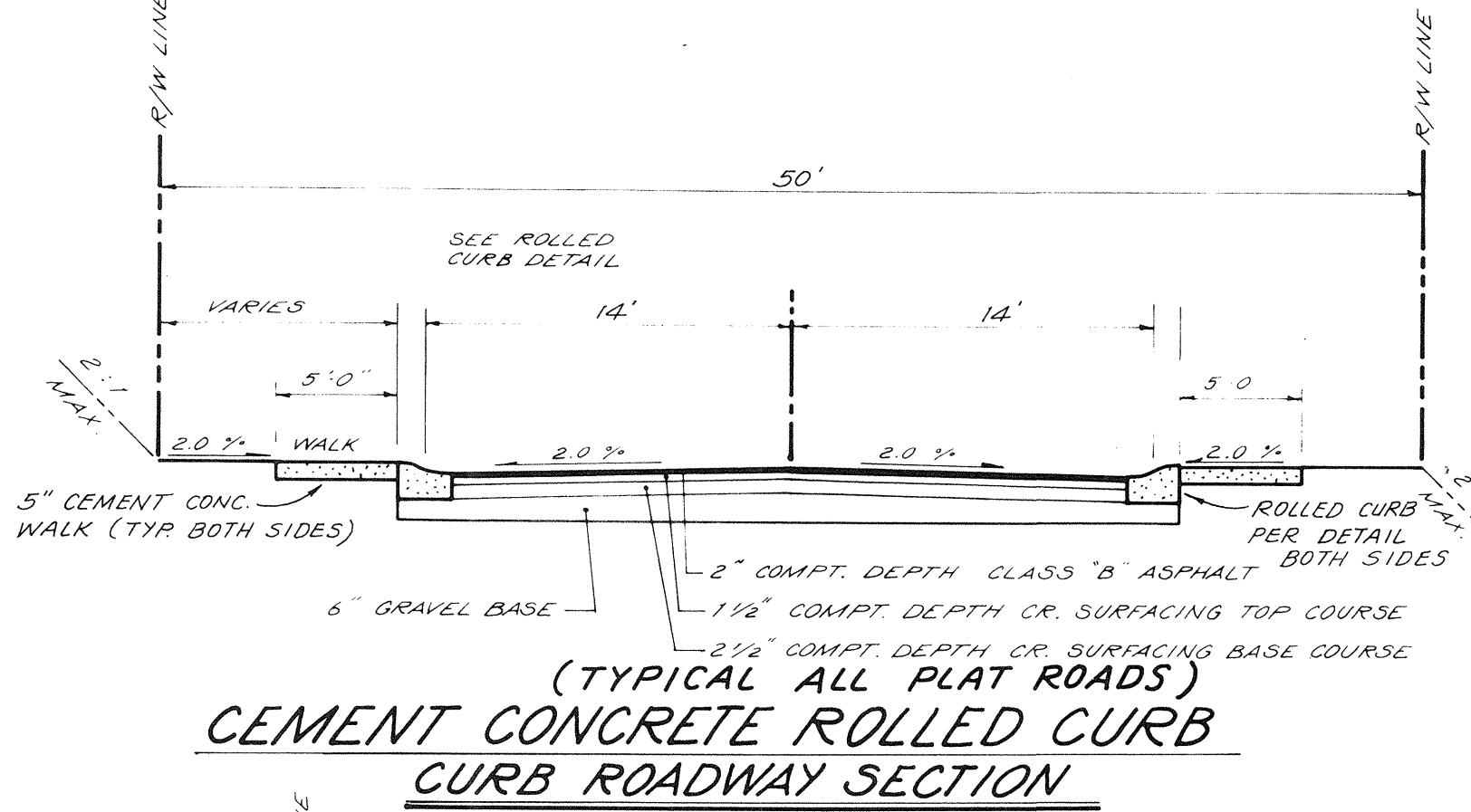
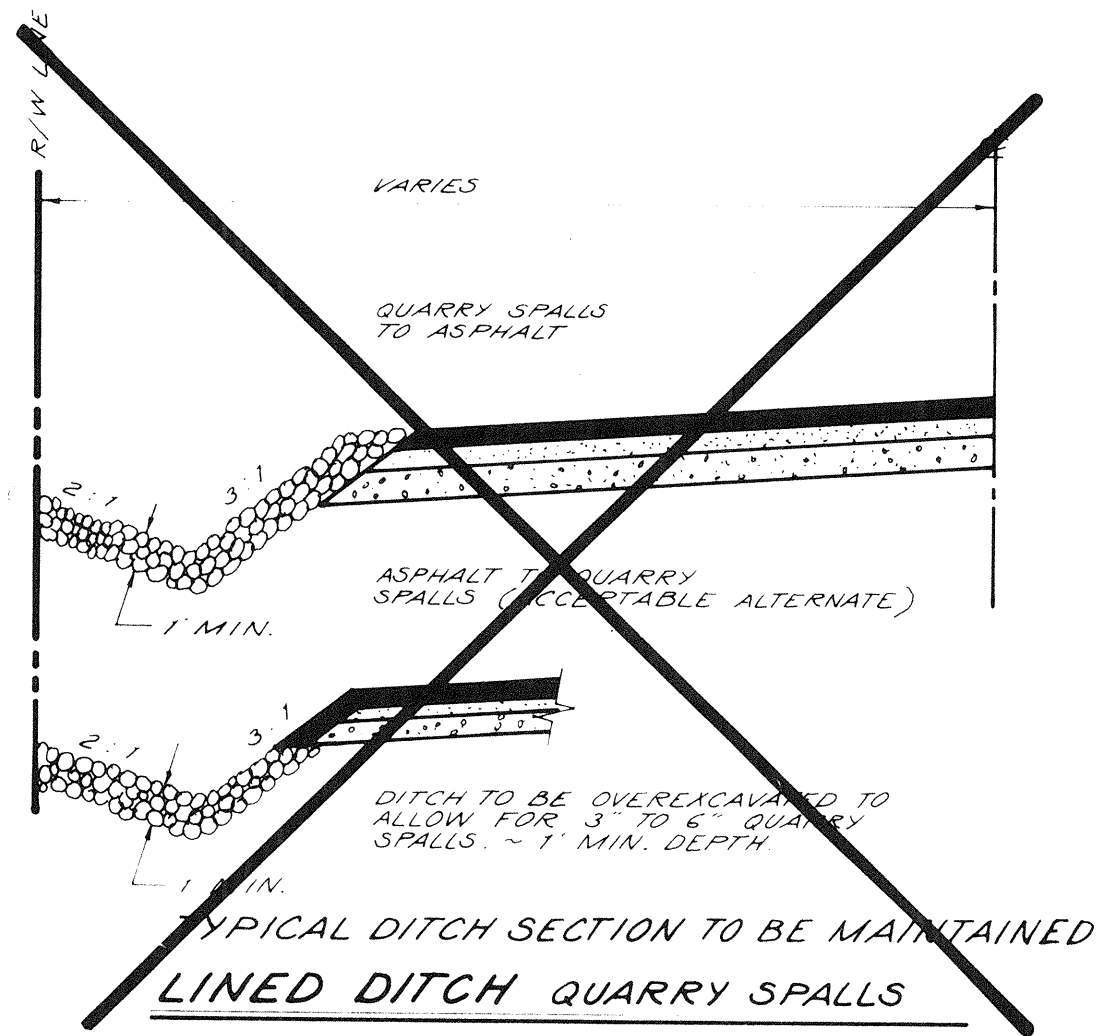
SCALE: HORIZ: 1" = 50'  
VERT: 1" = 5'



25th AVE. SE APPROVED FOR: *Alan Newhill* DATE: 4-23-87  
CONSTRUCTION CITY OF MILL CREEK

APPROVED FOR *Randolph R. Schmitt* BY: G.E. WEED, DIRECTOR DATE: 4/23/87  
CONSTRUCTION DEPT. OF PUBLIC WORKS

<b>ROAD AND STORM PLAN &amp; PROFILE</b> FOR: <b>MILL CREEK SOUTH</b> DEVELOPER: <b>KEN LONG &amp; DICK SCHMIDT</b> 13322 HWY. 99 SOUTH EVERETT, WA 98204 PHONE (206) 745-1594		NO. REVISION DATE BY 1 2 3 4
Western Surveyors Inc. LAND USE CONSULTANTS CIVIL ENGINEERS • LAND SURVEYORS 13322 Highway 99 South • Everett, WA 98204 • (206) 745-1594		745-1594 or 355-2776
DWN BY DATE KAM 8-29-86	PROJECT MANAGER E.J. BONE	SCALE AS SHOWN
CHKD. BY DATE LVB	SHEET 3 OF 5	JOB NO. 84-005



APPROVED FOR *George Weed* GE. WEED, DIRECTOR DATE: 4/23/87  
CONSTRUCTION DEPT. OF PUBLIC WORKS

REV. 1 REV. RD SEC (25TH) 3/6/87 AJ.

NO.	REVISION	DATE	BY

**Western Surveyors Inc.** 745-1594 or 355-2776

LAND USE CONSULTANTS  
CIVIL ENGINEERS • LAND SURVEYORS  
13322 Highway 99 South • Everett, WA 98204 • (206) 745-1594

**DETAILS FOR:**

**MILL CREEK SOUTH**

DEVELOPER: **KEN LONG & DICK SCHMIDT**  
13322 HWY 99 SOUTH  
EVERETT, WA 98204  
PHONE (206) 745-1594

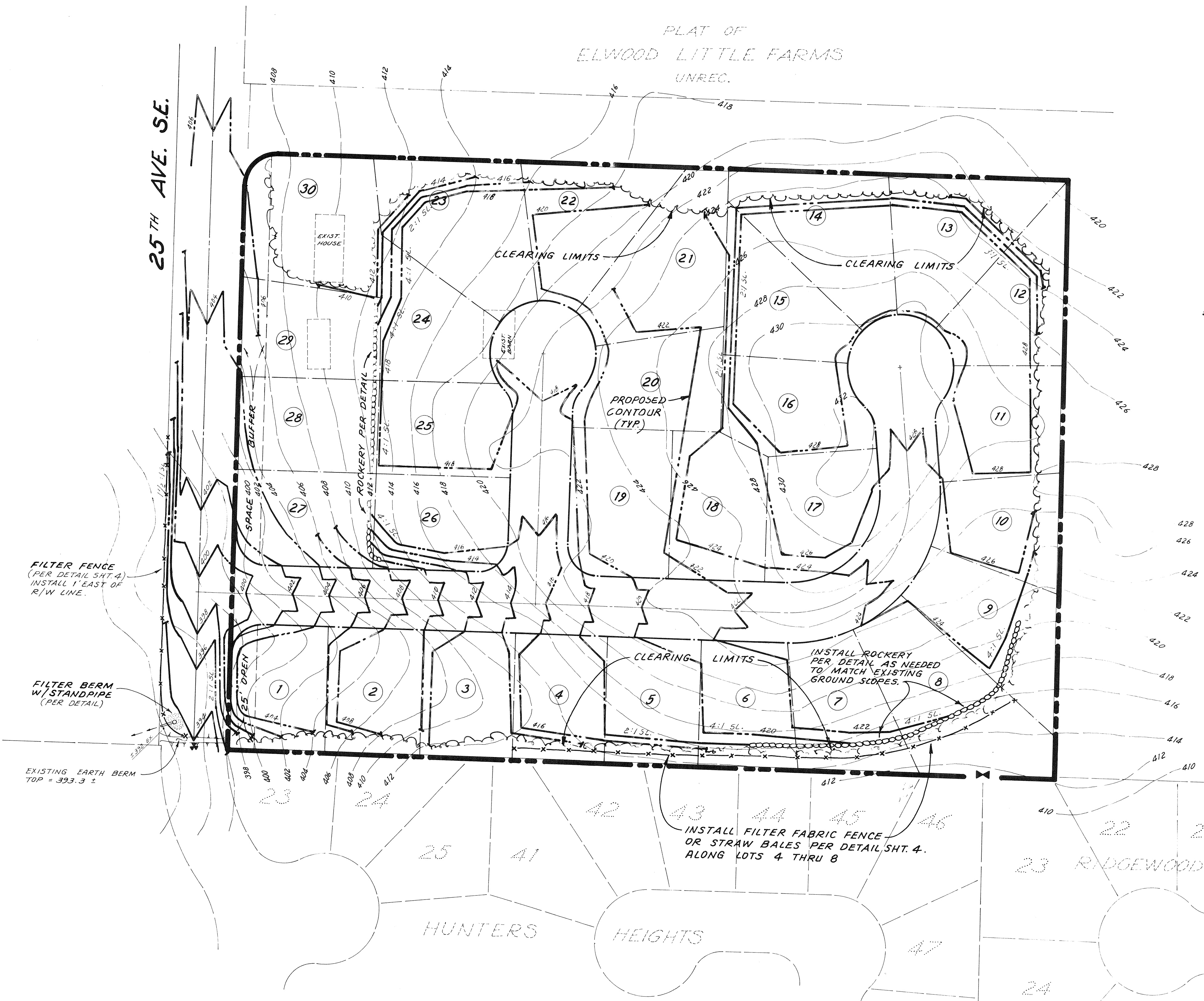
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KAM 8-26-86	E. J. BONE	AS SHOWN

CHKD BY DATE	SHEET	JOB NO.
RES	4 OF 5	84-005

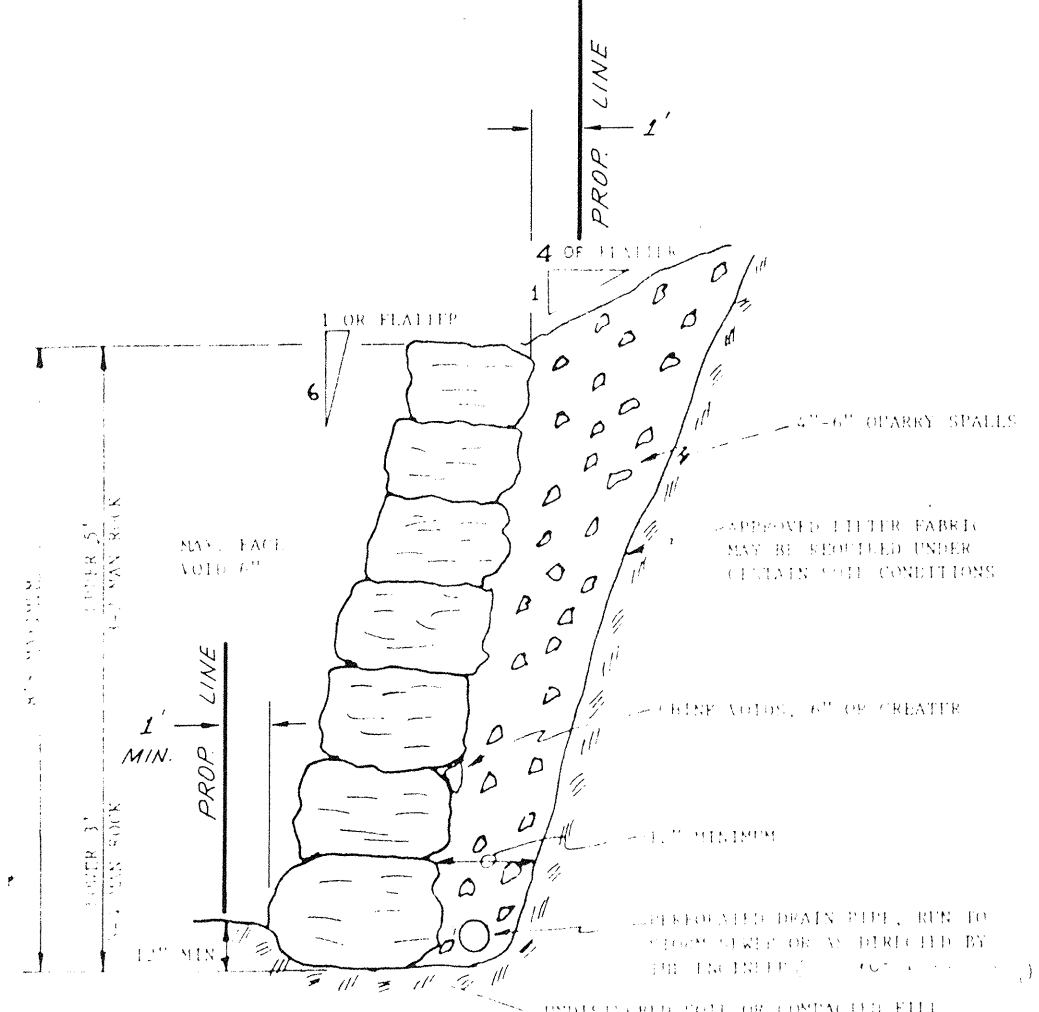
REV. 1 3-10-87 RES

PLAT OF  
ELWOOD LITTLE FARMS  
UNREC.

25<sup>TH</sup> AVE. SE.



SCALE: 1" = 50'



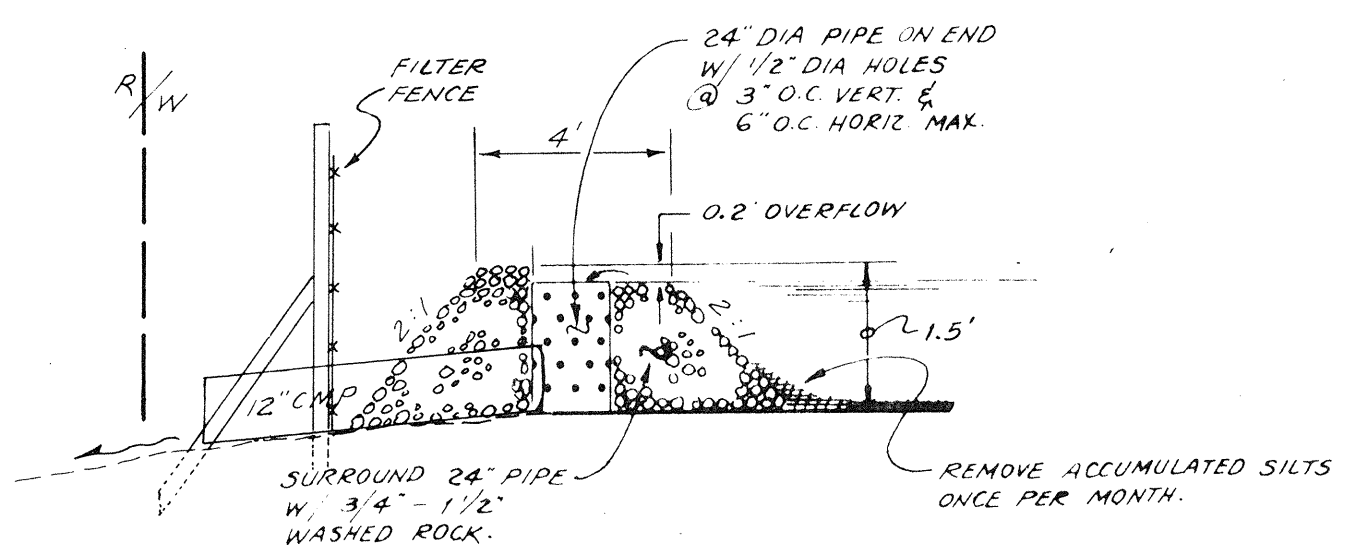
1. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
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10. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
11. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
12. ALL FILLS AS DESIGNATED BUILDING SITES TO BE COMPACTED TO 90% OF MAX. DENSITY.

**MAINTENANCE OF STRAW BALE**  
Straw bale barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Close attention shall be paid to the repair of damaged bales, end runs and undercutting beneath bales. Necessary repairs to barriers or replacement of bales shall be accomplished promptly. Sediment deposits should be removed after each rainfall. They must be removed when the level of deposition reaches approximately one-half the height of the barrier. Any sediment deposits remaining in place after the straw bale barrier is no longer required shall be dressed to conform to the existing grade, prepared and seeded.

**STANDPIPE AND SEDIMENT POND MAINTENANCE**  
The embankment of the basin should be checked regularly to insure that it is structurally sound and has not been damaged by erosion or construction equipment. The emergency spillway should be checked regularly to insure that its lining is well established and erosion-resistant. The siltation basin should be checked after each runoff-producing rainfall for sediment clearance. When the sediment reaches the cleanout level, it shall be removed and properly disposed of.

**GRADING QUANTITIES**  
CUT : 18,614 ± C.Y.  
FILL : 14,344 ± C.Y.

APPROVED FOR *Rudolph R. Light* BY: G.E. NEED, DIRECTOR DATE: 4/23/87  
R/W CONSTRUCTION DIVISION DEPT. OF PUBLIC WORKS



**NOTE:**  
ALL GRADING TO BE IN CONFORMANCE WITH U.B.C., CHAPTER 70.

<b>TEMPORARY EROSION - SEDIMENTATION CONTROL PLAN CLEARING LIMITS GRADING PLAN</b>		 <b>Western Surveyors Inc.</b>	745-1594 or 355-2776
FOR <b>MILL CREEK SOUTH</b>			LAND USE CONSULTANTS CIVIL ENGINEERS • LAND SURVEYORS 13322 Highway 99 South • Everett, WA 98204 • (206) 745-1594
DEVELOPER: <b>KEN LONG &amp; DICK SCHMIDT</b>			
13322 HWY. 99 SOUTH EVERETT, WA 98204 PHONE (206) 745-1594			
DWN BY	DATE	PROJECT MANAGER	SCALE
KAM	8-25-86	EJ. BONE	
DRAWN BY	JAT	SHEET	JOB NO.
ENB		5 OF 5	84-005