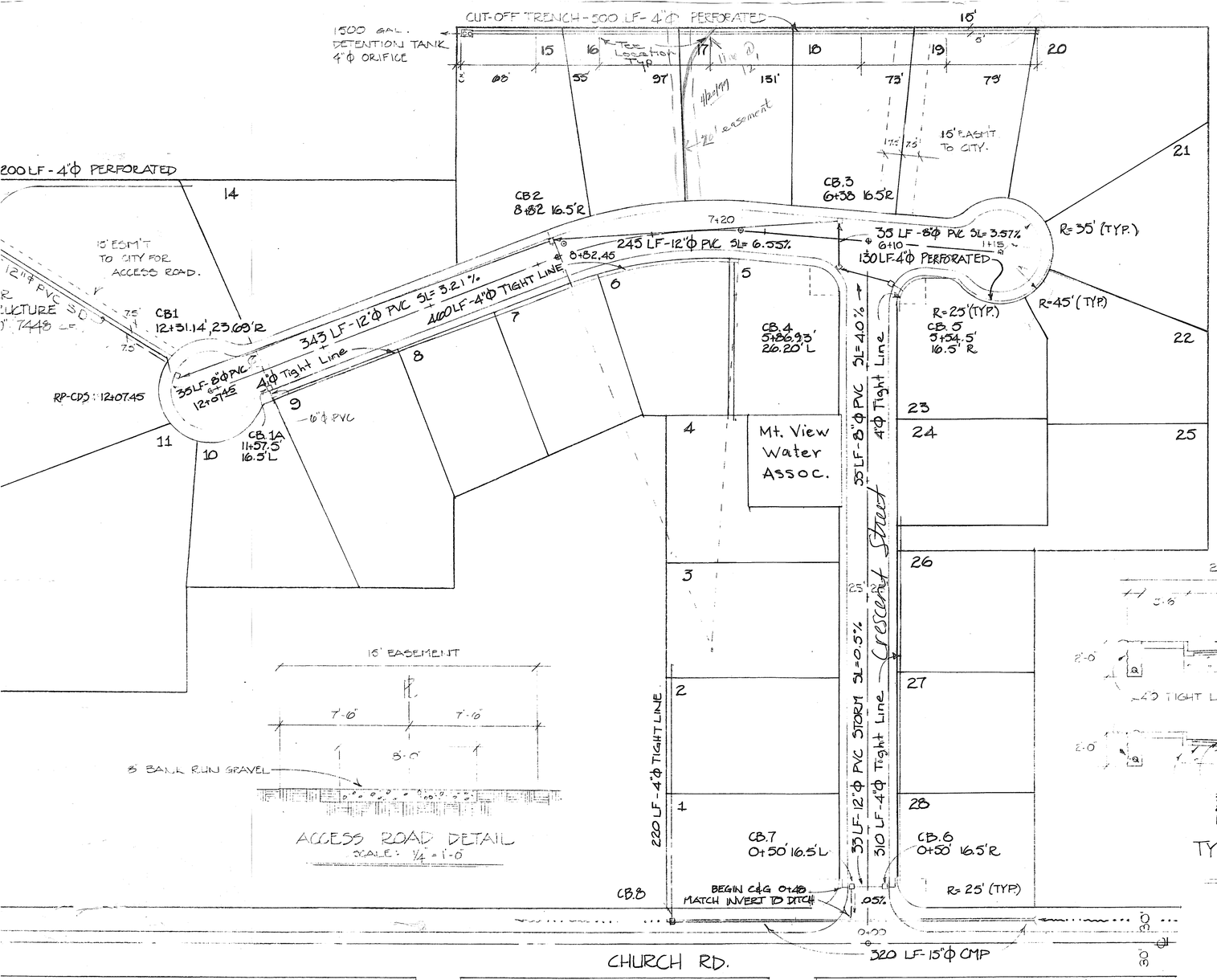


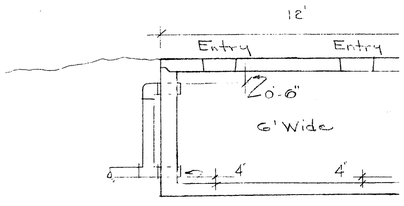
ACCESS ROAD DETAIL
SCALE: 1/4 = 1'-0"

STORM DRAIN SPECIFICATIONS

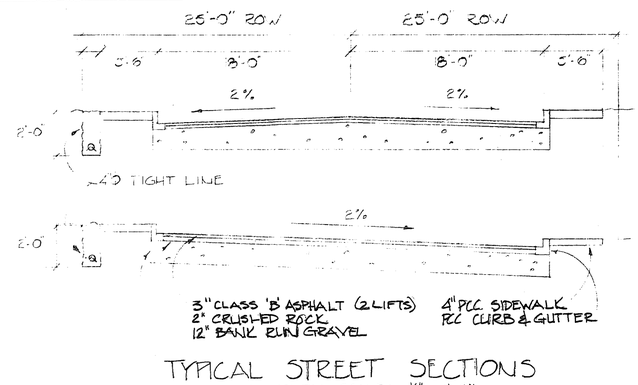
1. Stripped organic material and excess excavation shall become the property of the Contractor and shall be disposed of at the contractors expense off site, or as directed by the owner.

2. Storm pipe shall be PVC D3034 or equal with rubber gasket joints. Bedding shall be free draining pea gravel for a minimum of 6 inches above and below pipe.

3. Catch basins shall be Type I. Catch basins shall be constructed using metal frames per City Drawings ST-12 and St-13-A. CB per DOT Plan B-1.



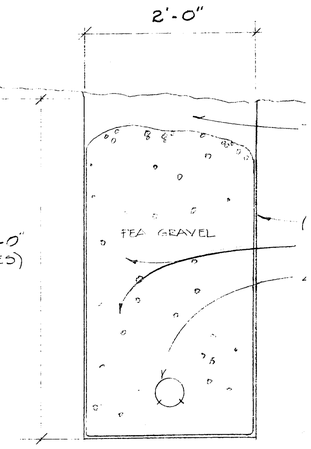
1500 GAL. DETENTION T
SCALE: 1/4 = 1'-0"



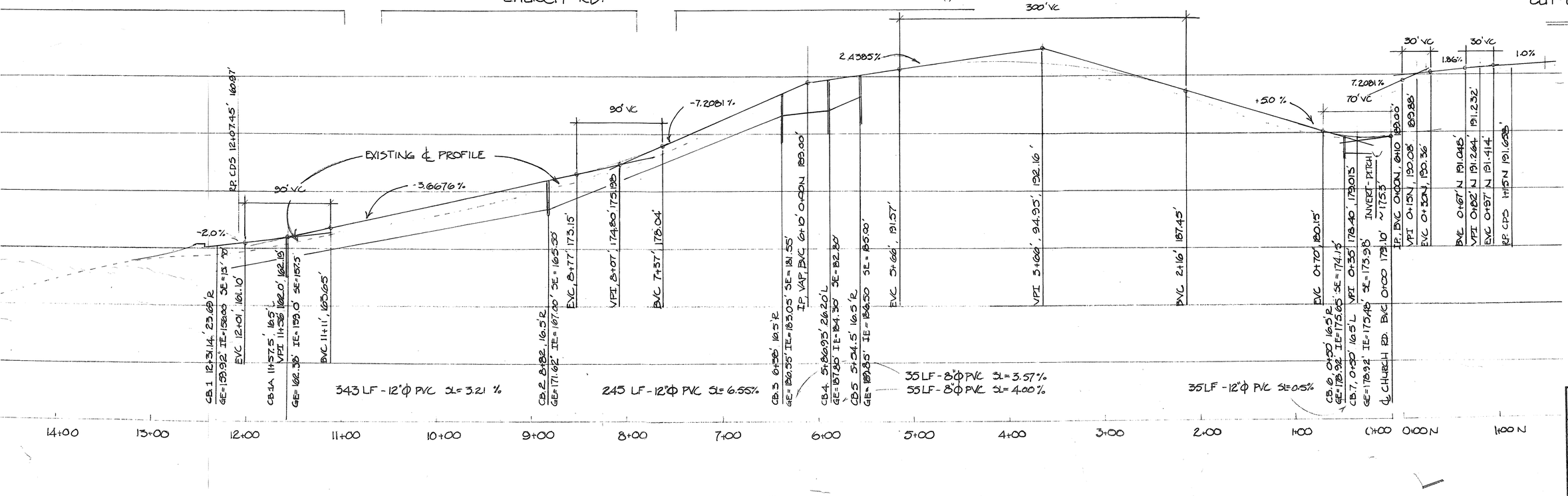
SECTION 1
0+00' → 6+10'

SECTION 2
6+10' → 12+07'
0+00N → 1+15N

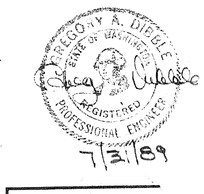
TYPICAL STREET SECTIONS
HORIZONTAL SCALE: 1/8" = 1'-0"



CUT-OFF TRENCH DETAI
SCALE: 1" = 1'-0"

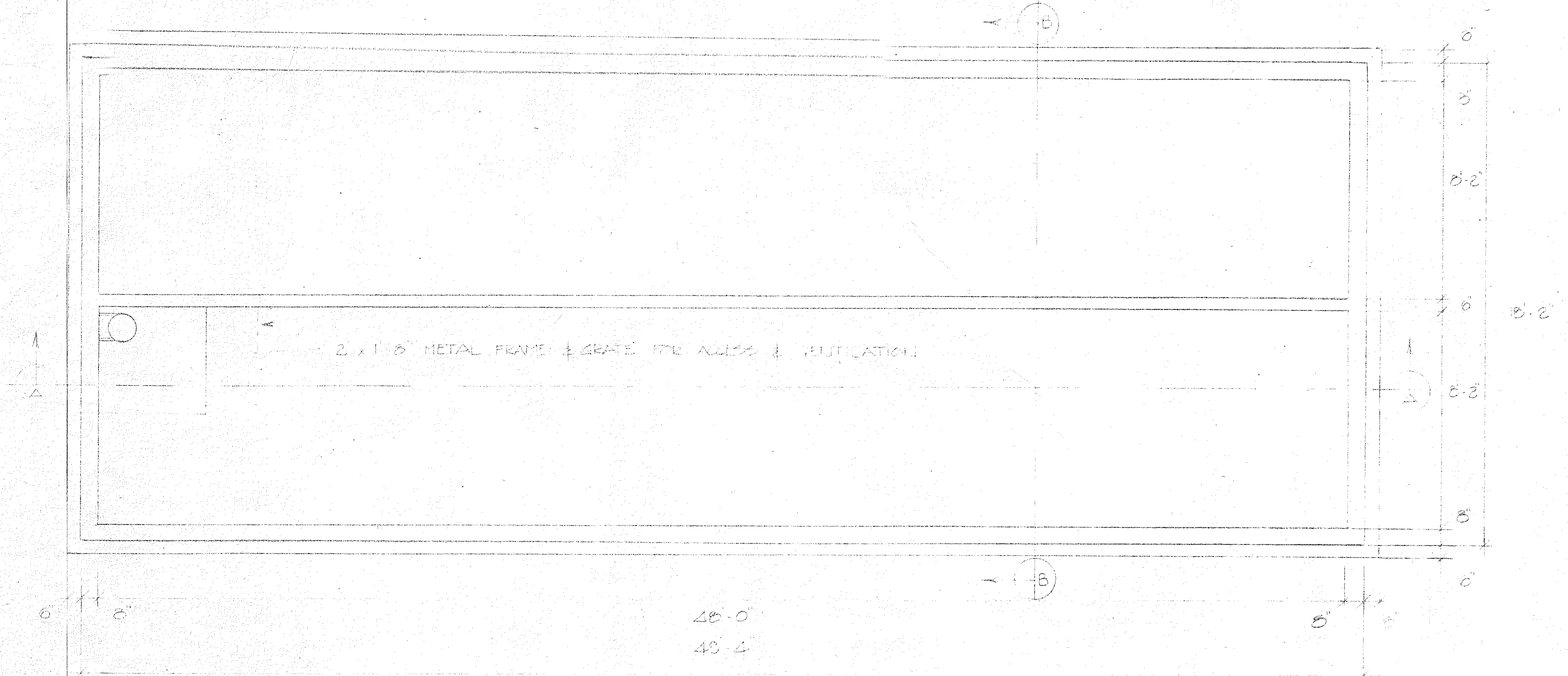


CHURCH RD.



HOWARD	
SCALE: AS NOTED	APPRO
DATE: 7/6/89	
NUBGAR	
ROAD & S	

AS BUILT



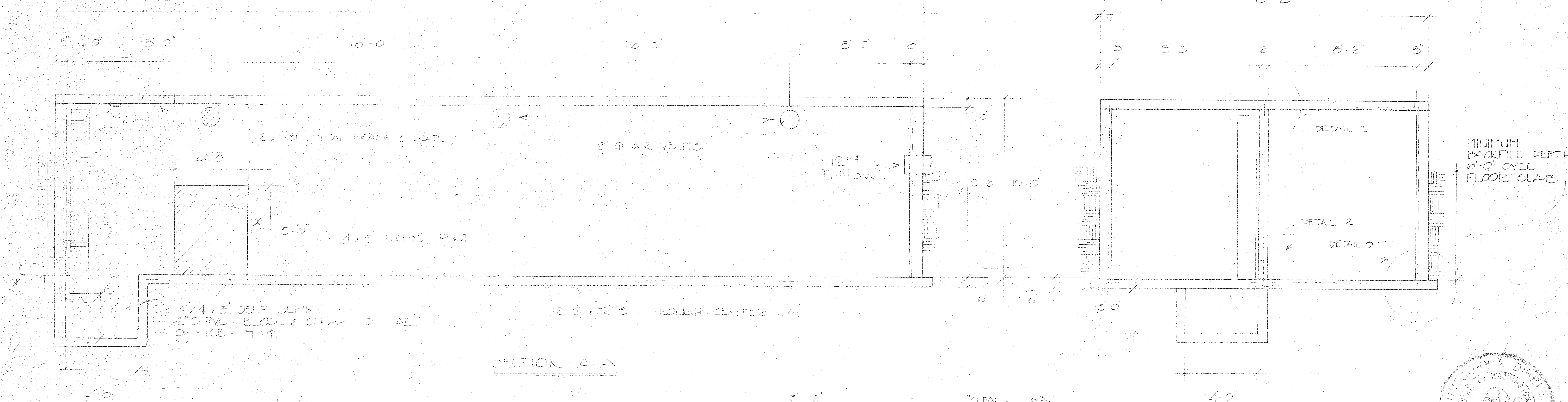
GENERAL NOTES

1. All concrete shall be 3,000 PSI compressive strength @ 28 days.

2. All steel reinforcement shall be Grade 40 unless noted otherwise.

3. Minimum clear cover of reinforcing steel in concrete in contact with earth will be 3". Minimum cover for reinforcing steel in concrete below grade but not in contact with earth shall be 2". All other reinforcing steel will have a minimum of 1.0" cover.

4. Soil shall be U.B.C. Class IV (silty sand) 1500 psf allowable bearing pressure.



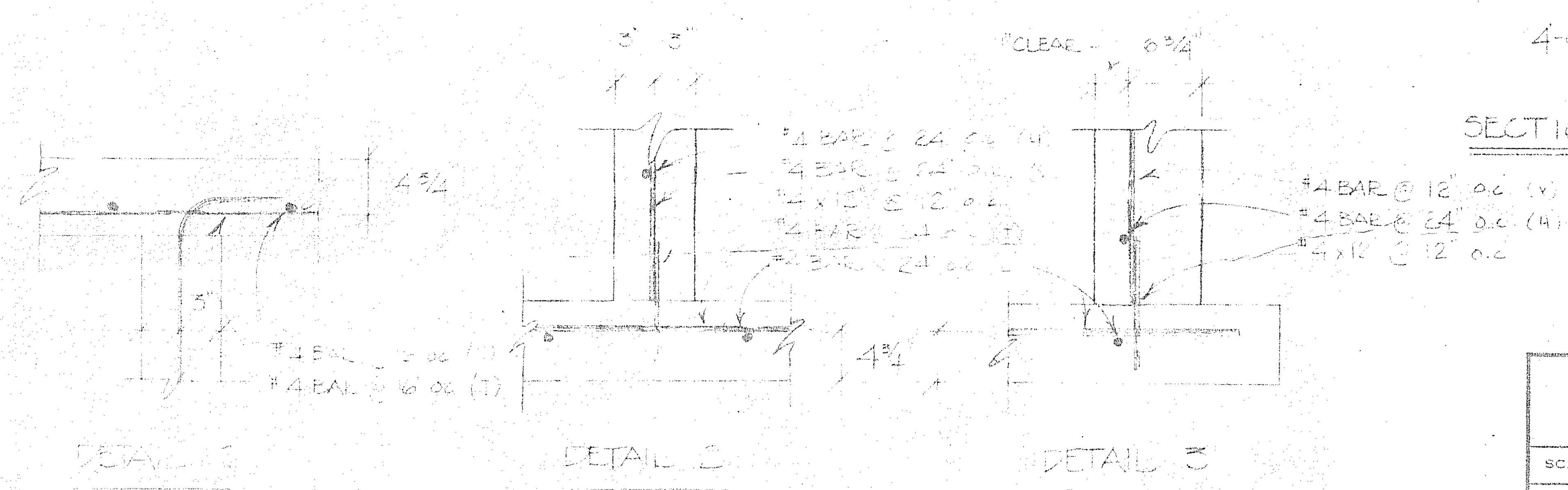
REBAR SCHEDULE

ROOF SLABS: 1-#4 BAR @ 16" o.c. TRANSVERSE, 1-#4 BAR @ 16" o.c. LONGITUDINAL

EXTERIOR WALLS: 1-#4 BAR @ 12" o.c. VERT., 1-#4 BAR @ 20" o.c. HOR.

INTERIOR WALLS: 1-#4 BAR @ 24" o.c. VERT., 1-#4 BAR @ 24" o.c. HOR., INCL. 2-#4 x 6' "OVER ACCESS PORT" w/ 2" COVER

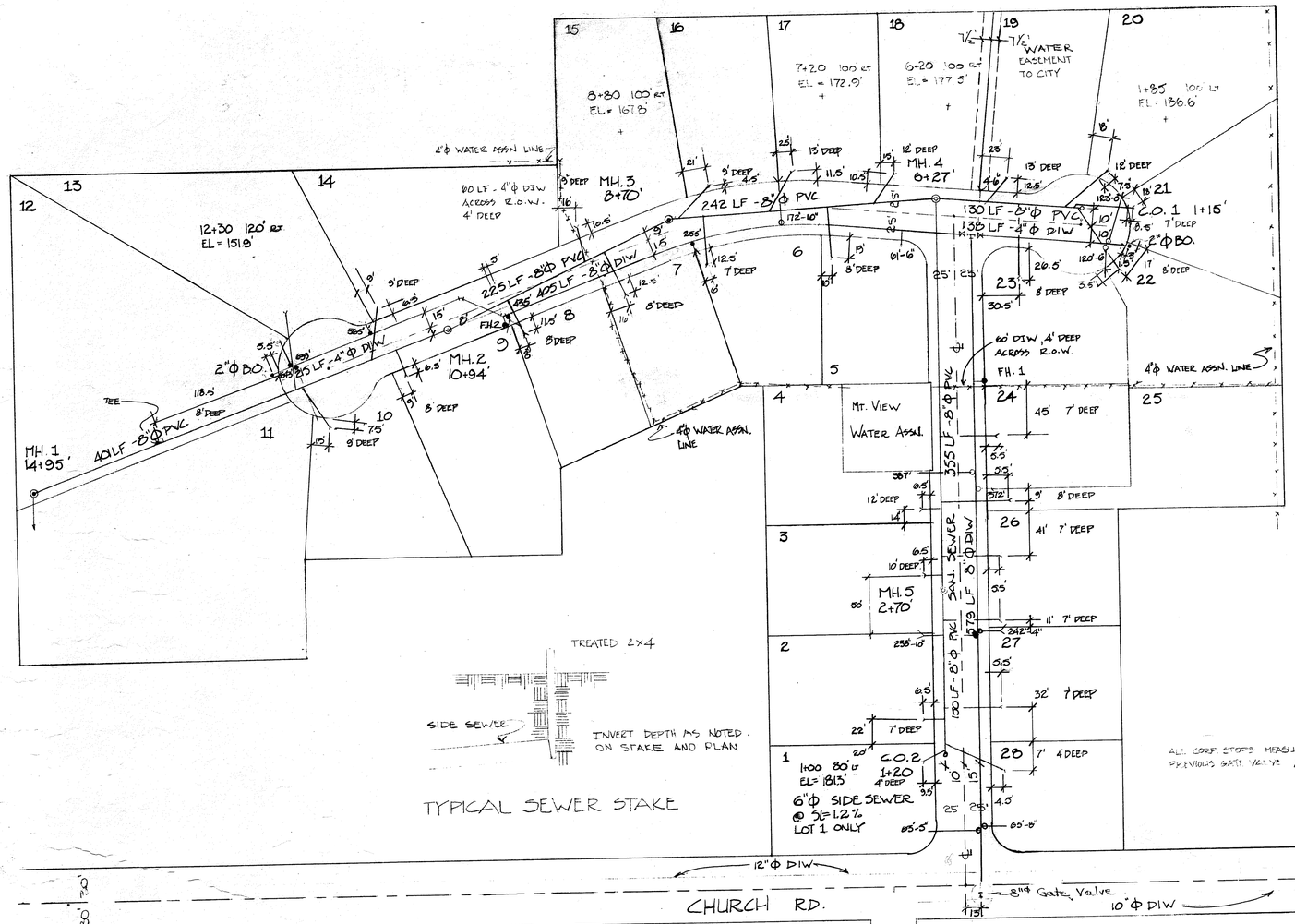
FLOOR SLAB: 1 #4 BAR @ 24" o.c. TRANSVERSE, 1 #4 BAR @ 24" o.c. LONGITUDINAL



GREG DIBBLE P.E.
CONSULTING ENGINEER
130 CENTRAL AVE 734 1288

8/18/89

STORM WATER DETENTION TANK	
SCALE: 1/4" = 1'-0" DATE: 8/17/89	APPROVED BY:
DRAWN BY KG	REVISED
HOWARD VROMAN	
HUBGAARD RIDGE PLAT	DRAWING NUMBER 22489 3/3



TREATED 2x4

SIDE SEWER

INVERT DEPTH AS NOTED ON STAKE AND PLAN

TYPICAL SEWER STAKE

ALL CORP. STOPS MEASURED FROM PREVIOUS GATE VALVE ALONG PIPELINE

SCALE 1"=60.0'

GENERAL SPECIFICATIONS

1. All work and materials shall be done in accordance with 1988 Standard Specifications for Road, Bridge and Municipal Construction by Washington State Department of Transportation.

2. Constructor will obtain a Public Work Project Permit prior to the commencement of construction. Contractor shall schedule a construction conference prior to beginning work and shall contact the Office of the City Engineer 24 hours prior to commencing work in the City right-of-way.

3. Contractor shall restore all public and private property disrupted by the project. Page - 1

4. Contractor shall submit a list of item costs to the City Engineer covering all costs of construction and submit a one-year maintenance bond covering defects in material and workmanship prior to City acceptance of the project.

5. Contractor shall inform the Engineer of any proposed changes in plan prior to construction of that change. Contractor shall keep record of deviations and forward to Engineer. Engineer will provide City with a certified As-Built mylar at the completion of the project.

6. Contractor shall contact Utilities Coordinating 48 hours in advance of construction (1-800-424-5555).

7. All subgrade embankment and trench backfill including sanitary sewer lines, side sewers, water mains, water services, and storm drains shall be City approved material compacted to a minimum of 95 percent of maximum density as determined by a Modified Proctor Test (ASTM D1559).

WATER MAIN & APPURTENANCES

1. Water main shall be Ductile Iron Pipe thickness Class 50 Minimum cover shall be 36 inches.

2. Concrete thrust blocking shall be the responsibility of the contractor, but shall not have less than 4 square feet of bearing against undisturbed earth.

3. Contractor shall confer with the City Engineer regarding method of filling and pressure testing pipe prior to proceeding with construction. Test Pressure shall be a minimum of 200 psi.

4. Fire Hydrant shall be 5-1/2" MVO subject to City Approval.

5. Blow-off shall be in accordance with APWA Standard Plan No. 74.

6. Water Service installation shall be the responsibility of the contractor. All work and materials shall be in accordance with current city standards.

7. Contractor shall contact the Engineer for the inspection and location of corp. stops and water service lines prior to backfilling trenches.

SANITARY SEWER SPECIFICATIONS

1. Eight and four inch sanitary sewer pipe shall be PVC ASTM D3034 SDR 35 with rubber gasket joints meeting ASTM D1839. PVC pipe bedding details shall be in accordance with City Standard Drawing SE-4.

2. Manholes shall be in accordance with City Drawing SE-6. Manholes shall be Type 48-I or II as noted on profile.

3. Eight inch clean-out shall be in accordance with City Standard Plan SE-1.

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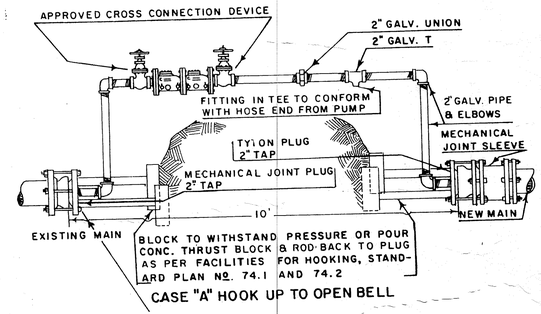
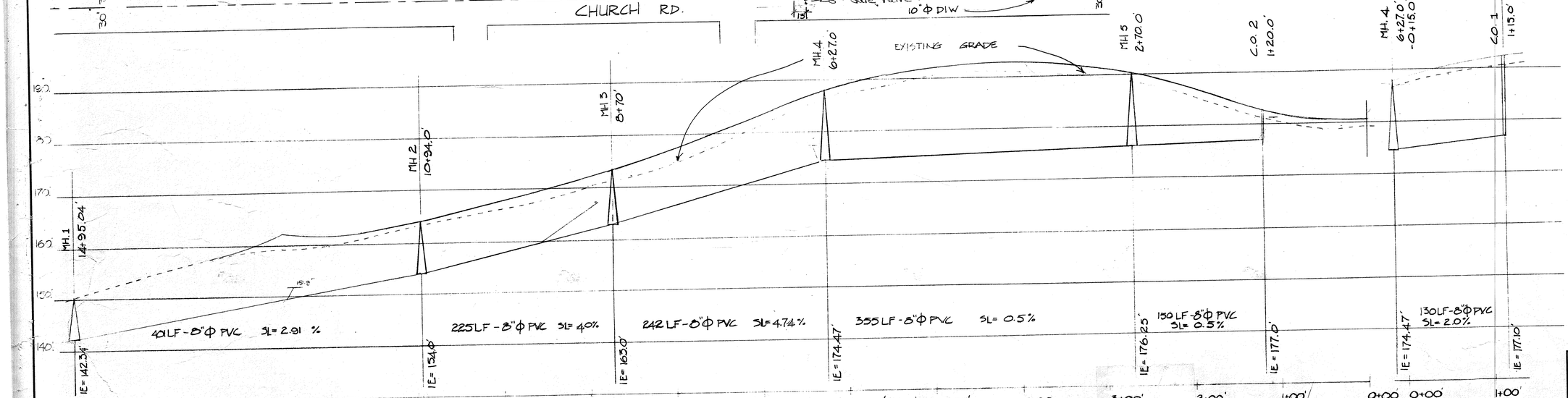


CASE "A" HOOK UP TO OPEN BELL

AS BUILT
Greg Dibble
10/10/89



SCALE:
VERTICAL 1"=10.0'
HORIZONTAL 1"=60.0'

GREGORY A. DIBBLE STATE OF WASHINGTON 7189 REGISTERED PROFESSIONAL ENGINEER

Greg Dibble

GREG DIBBLE, P.E.
CONSULTING ENGINEER
100 CENTRAL AVE. 734-125
BELLINGHAM, WA 98225

HOWARD VROMAN

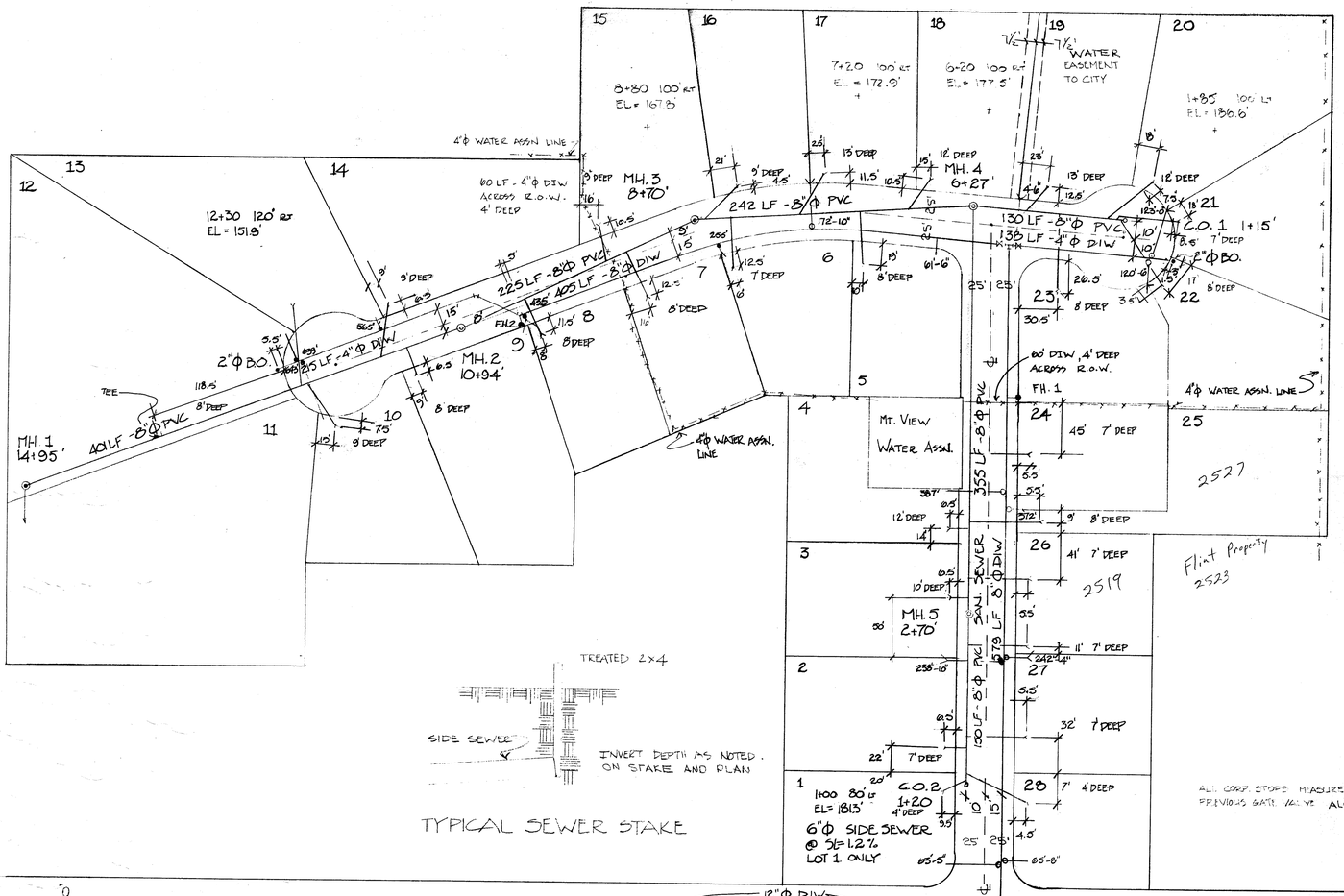
SCALE: AS NOTED	APPROVED BY:	DRAWN BY KG
DATE: 7/7/88		REVISED 7/

NUBGAARD RIDGE PLAT

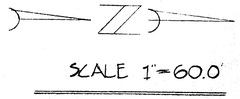
SANITARY SEWER & WATER

DRAWING NUMBER 22490

5/21/12 CC



TYPICAL SEWER STAKE



SCALE 1"=60.0'

ALL CORP. STOPS MEASURED FROM PREVIOUS GATE VALVE ALONG PIPELINE

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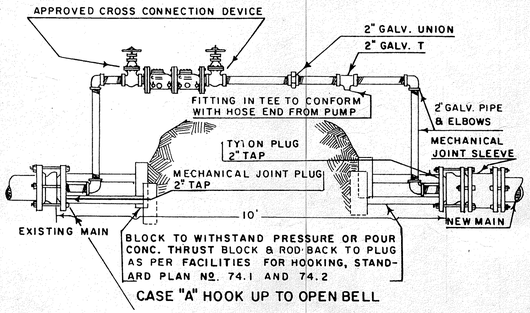
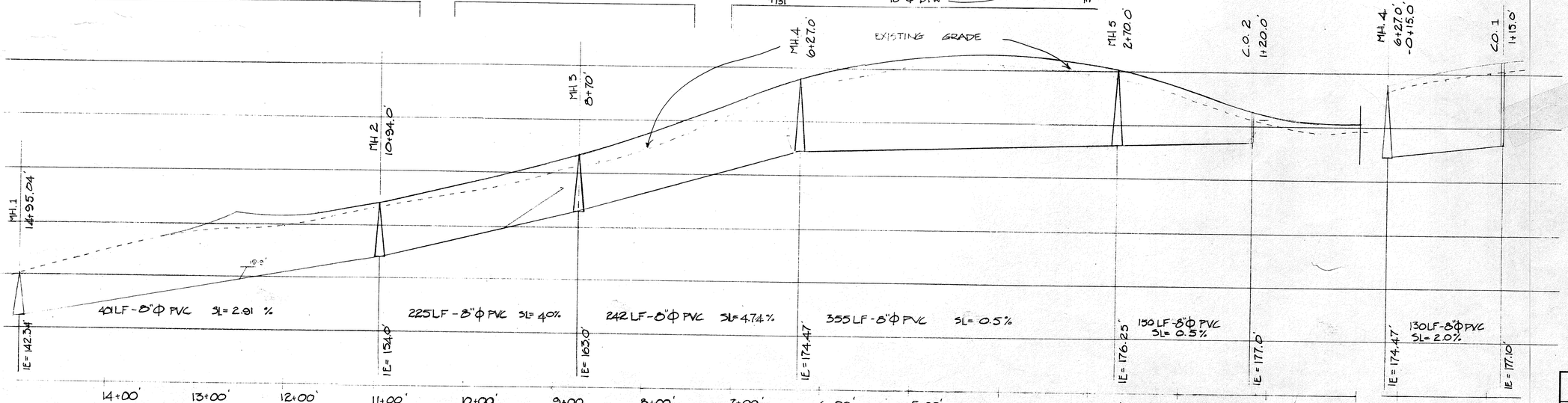




AS BUILT
Greg Dibble
10/10/89

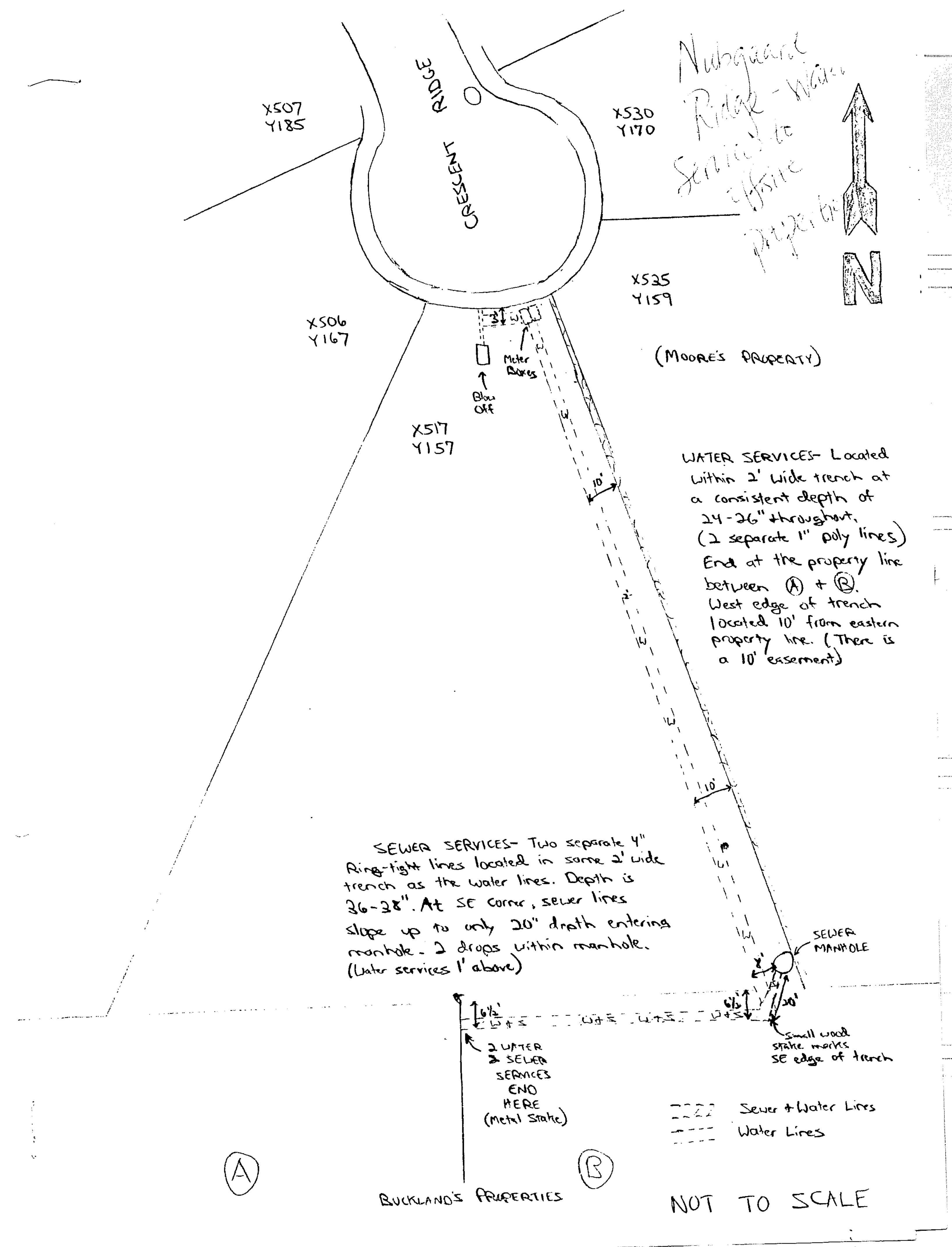
SCALE:
VERTICAL 1"=10.0'
HORIZONTAL 1"=60.0'

GREGORY A. DIBBLE STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER
7-7-89

GREG DIBBLE, P.E.
CONSULTING ENGINEER
100 CENTRAL AVE. 734 1288
BELLINGHAM, WA 98225

HOWARD VROMAN		
SCALE: AS NOTED	APPROVED BY:	DRAWN BY KG
DATE: 7/7/89		REVISED 7/11/89
NUBGAARD RIDGE PLAT		
SANITARY SE...		DRAWING NUMBER 2 of 3

8/21/2003



AS BUILT
10/10/89

GENERAL NOTES

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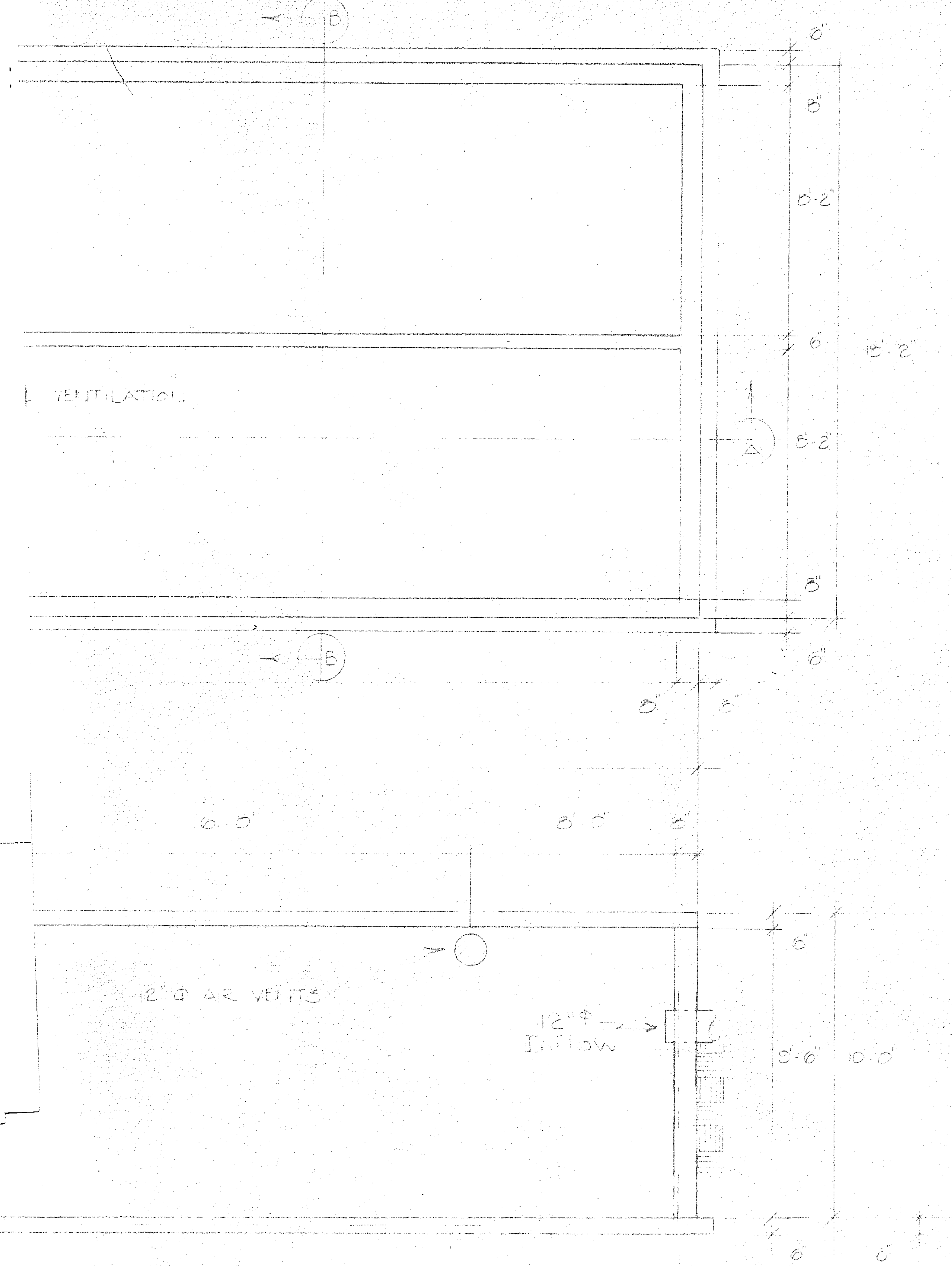
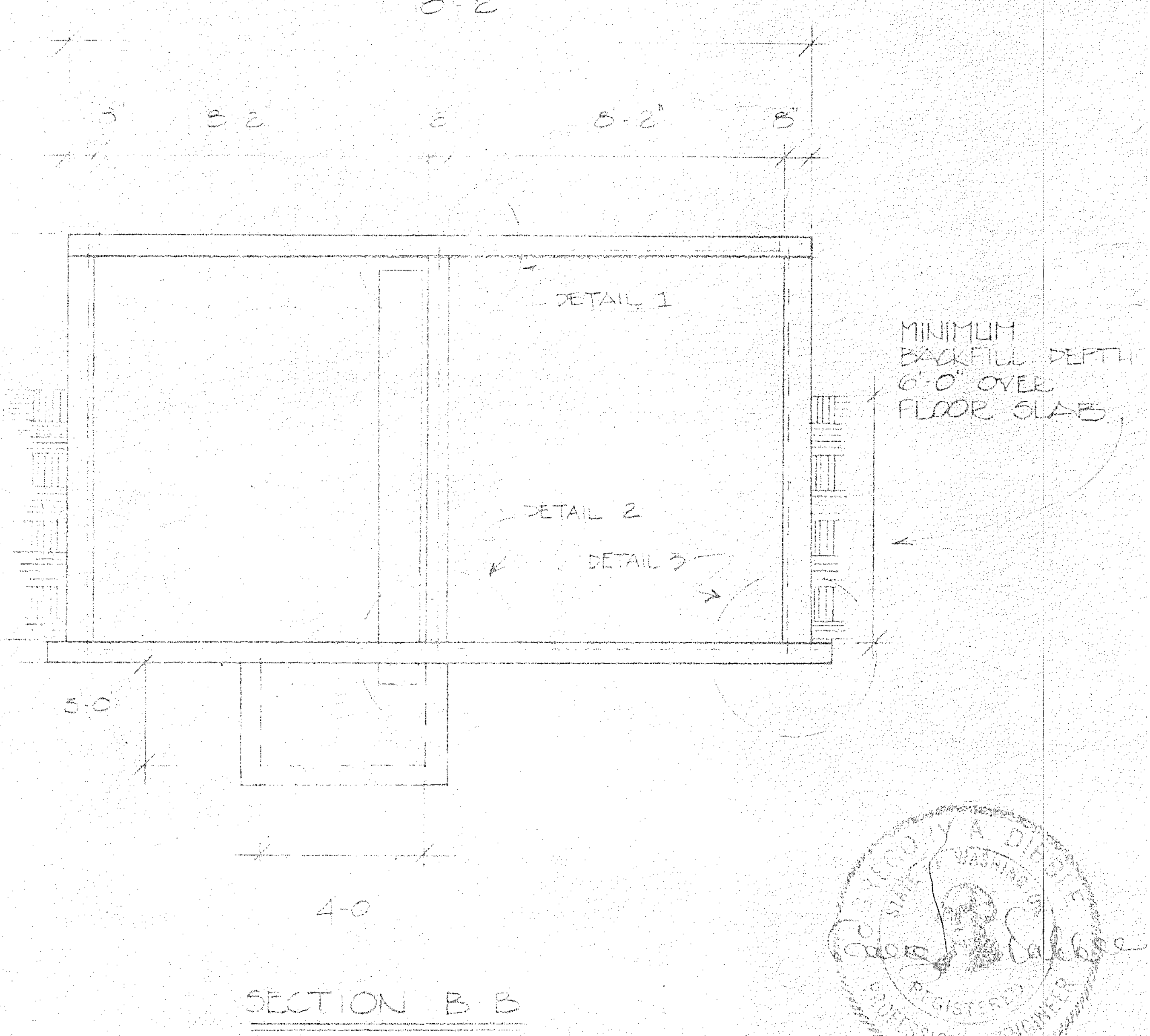
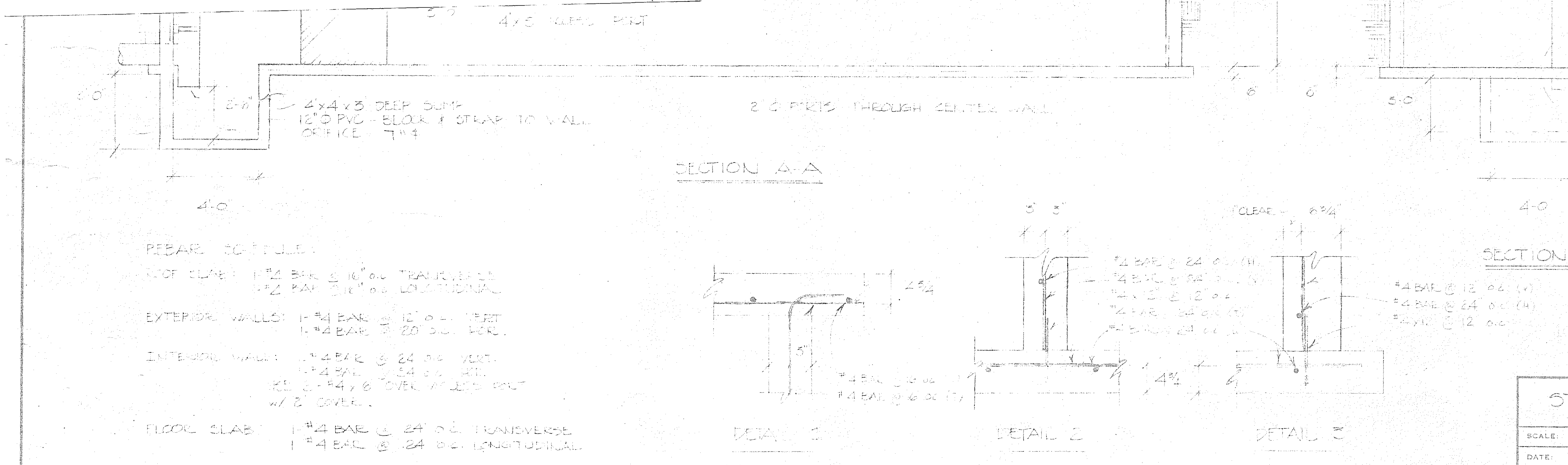


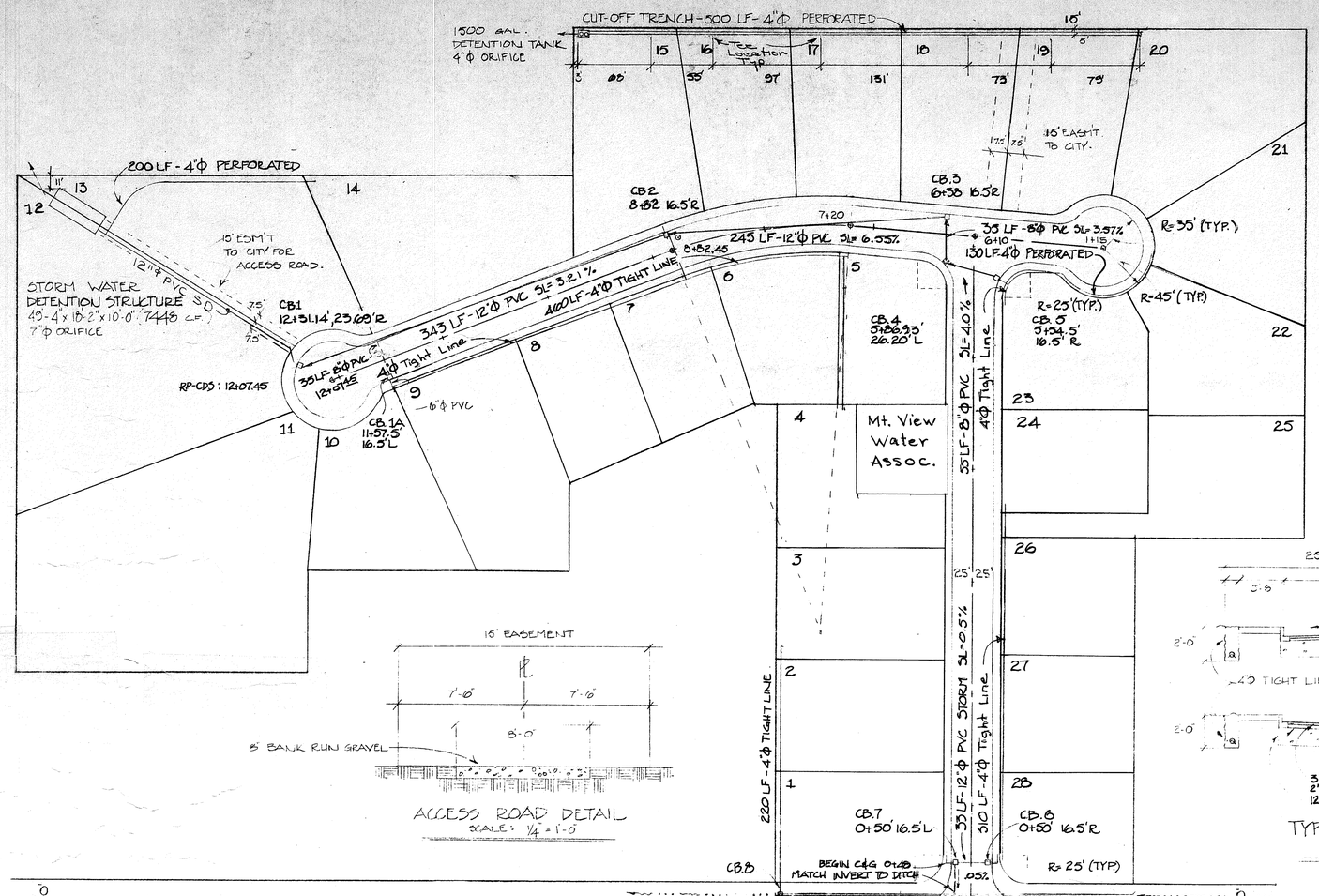




GREG DIESE, P.E.
CONSULTING ENGINEER

8/18/89

STORM WATER DETENTION TANK		
SCALE: 1/4"=1'-0"	APPROVED BY:	DRAWN BY KA
DATE: 8/17/89		REVISED
HOWARD VROMAN		
HUBGAARD RIDGE PLAT		DRAWING NUMBER 22489



SCALE: 1" = 60.0'

STORM DRAIN SPECIFICATIONS

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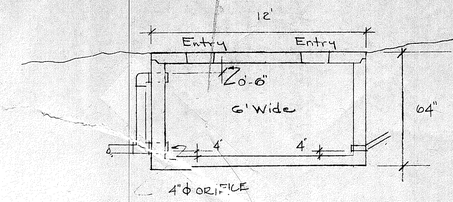
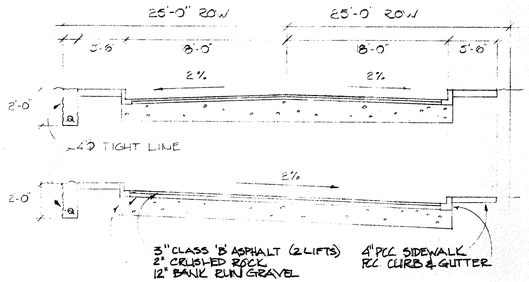


1500 GAL. DETENTION TANK
SCALE: 1/4" = 1'-0"

ACCESS ROAD DETAIL
SCALE: 1/4" = 1'-0"

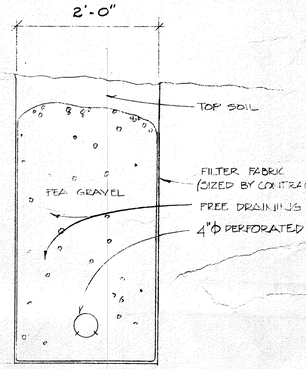


SECTION 1
0+00' → 6+10'

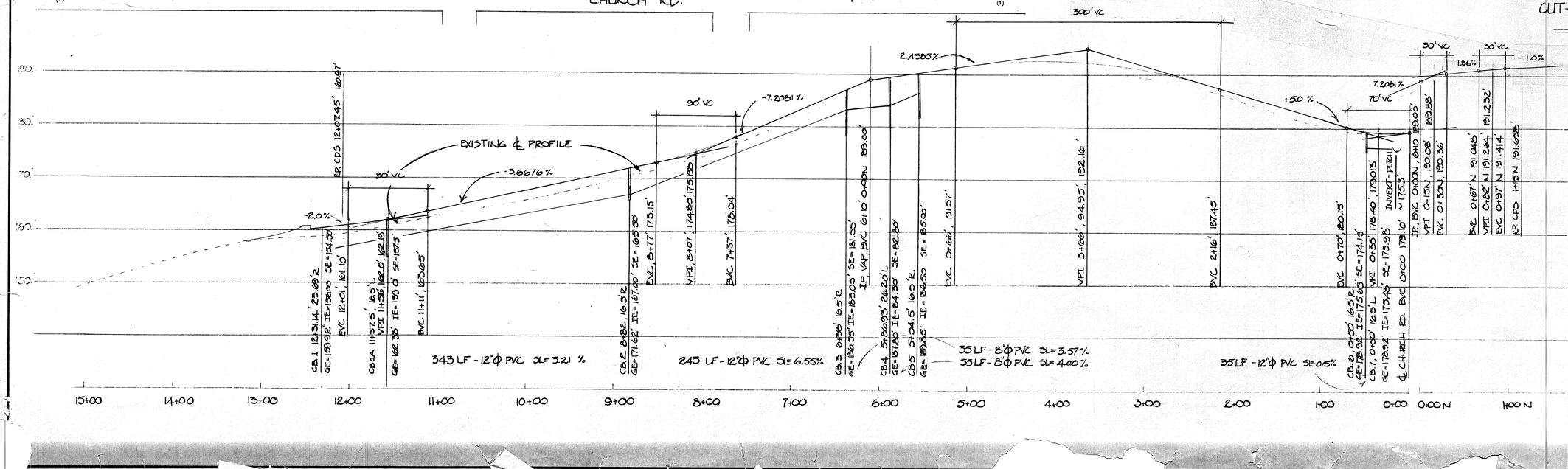
SECTION 2
6+10' → 12+07'
0+00N → 1+15N

TYPICAL STREET SECTIONS
HORIZONTAL SCALE: 1/8" = 1'-0"

4'-0"
(VARIES)



CUT-OFF TRENCH DETAIL
SCALE: 1" = 1'-0"



AS BUILT
Grades Drains
10/10/89

SCALE:
VERTICAL 1" = 10.0'
HORIZONTAL 1" = 60.0'

GREG DIBBLE, P.E.
CONSULTING ENGINEER
100 CENTRAL AVE. (360) 671-1288
BELLINGHAM, WA 98225

7/21/89

HOWARD VROMAN

SCALE: AS NOTED	APPROVED BY:	DRAWN BY KGA	
DATE: 7/21/89		REVISED 8/31/89	

NUBGAW RD RIDGE PLAT

ROAD & STORM SEWER

DRAWING NUMBER 22453 3/3

8/21/12 CL

ACCEPTED