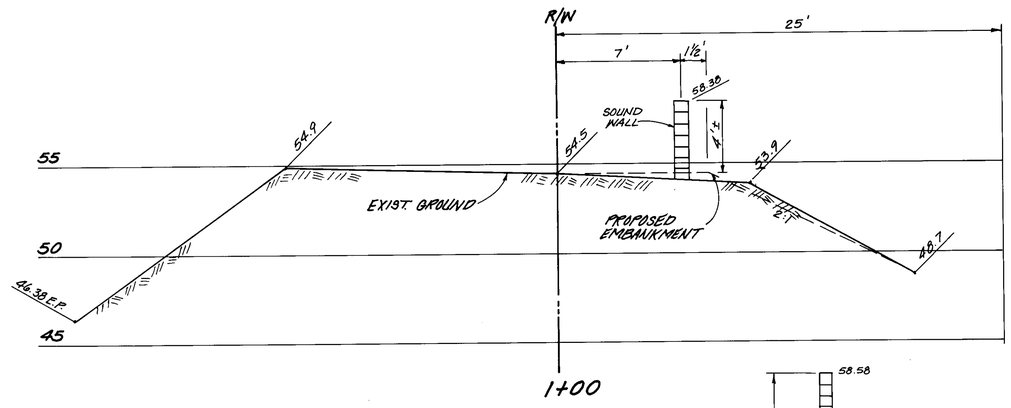
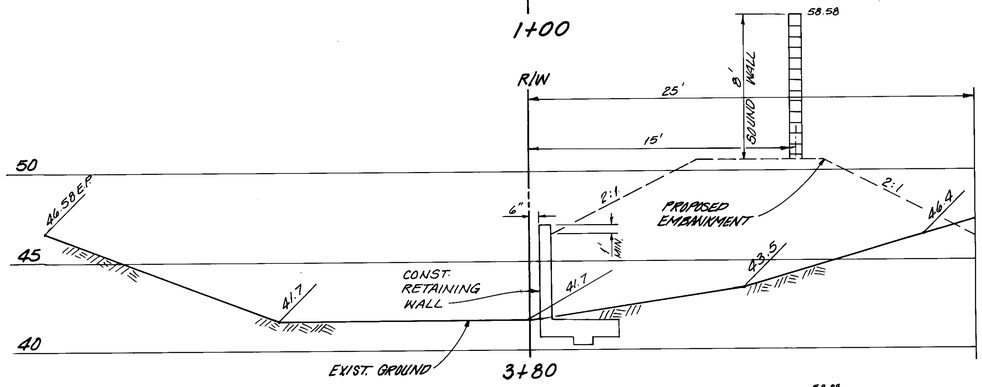
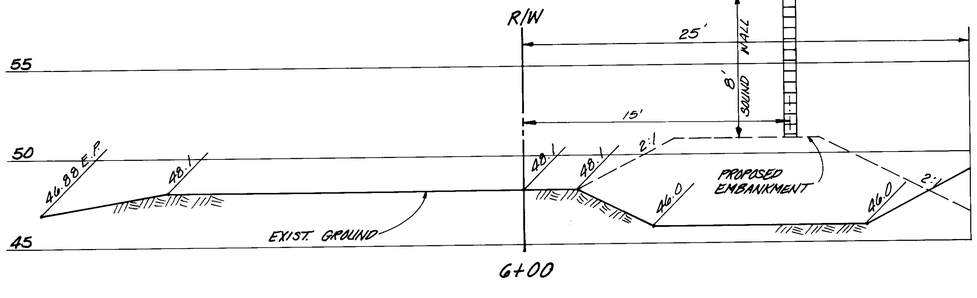
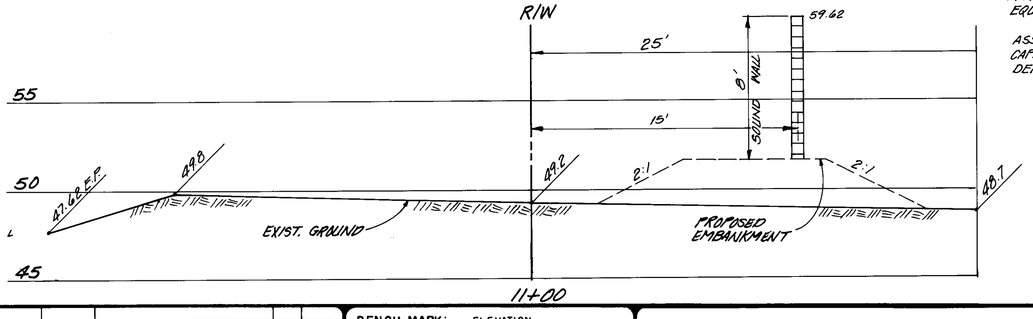
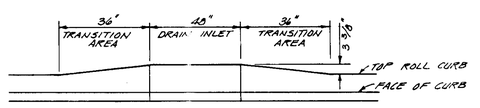
86492

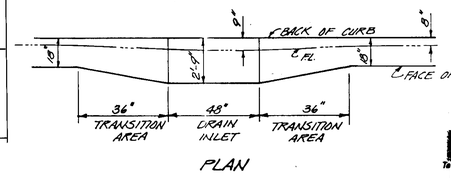








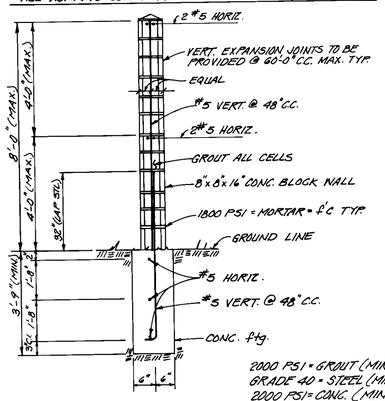




DETAIL CURB & D.I. TRANSITION

NO SCALE

ALL WORK TO CONFORM TO 1982 U.B.C. REQUIREMENTS



2000 PSI = GROUT (MIN) = F'c
GRADE 40 = STEEL (MIN) = Fys
2000 PSI = CONC. (MIN.) = F'c
1350 PSI = BLOCK (MIN) = Fm

8' HIGH SOUND WALL SECTION

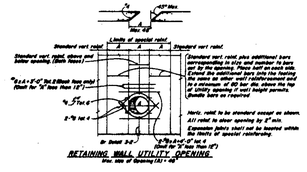
NO SCALE

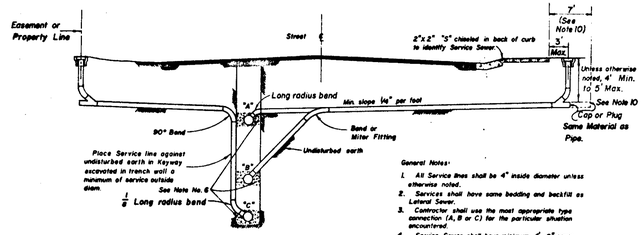
8'-0" SOUND WALL

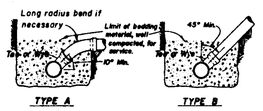
WIND LOAD $P = Ce\ Cq\ Iqs$
$Ce = 1.2 \quad Cq = 1.3 \quad I = 1.0$
$Qs = \frac{3}{4}(15 psf) = 11.25 psf$
$P = (1.2)\ 1.3\ (1.0)\ 11.25 = 17.55 psf$
$M\ MAX = 10.25\ (8')\ \frac{8}{2} = 561.@\ ft\text{-}lb.$
EQUIVALENT V @ h = 4'
$V = 8'\ (10.25) = 82\ lb.$
ASSUME LATERAL BEARING CAPACITY OF SOIL = 100 pcf
DEPTH REQ'D. = 3.75'

STEEL REQ'D.

MASONRY $K = \frac{327.6\ ft\text{-}lb\ /\ (12")}{12"\ (3.75")^2} = 23.3$
$N = 44 \quad S\ REQ'D = 0.0013$
$As\ REQ'D. = 0.059\ in^2/ft$ USE #5 @ 48" cc ($0.077\ in^2/ft$)
CONCRETE $Mu = 1.4\ (327.6\ ft\text{-}lb) = 459\ ft\text{-}lb \quad b = 12" \quad Fc = 2\ ksi$
$Fy = 40\ ksi \quad d = 6" \quad \phi = 9$
S REQ'D = 4.74×10^{-4} As REQ'D. = 0.034 ft-lb.
USE #5 @ 48" cc





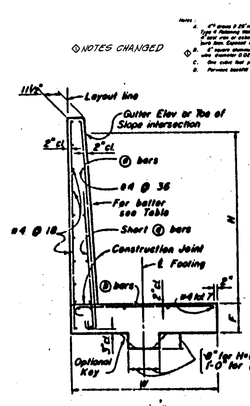


10. Minimum depth of cover to be increased to 4'-6" where water main is to be installed at back of sidewalk as part of the subdivision improvements. In such cases, service is to be extended to a minimum of 7' back of sidewalk; cleanout to grade to remain within 3' of back of sidewalk.

General Notes:

1. All Service lines shall be 4" inside diameter unless otherwise noted.
2. Services shall have same bedding and backfill as Lateral Sewer.
3. Contractor shall use the most appropriate type connection (A, B or C) for the particular situation encountered.
4. Service Sewer shall have minimum 4'-0" cover at Property Line wherever Lateral depth and Service Sewer Slope of ¼" per foot (Minimum) permit. See note 10.
5. When the Lateral Sewer depth is such that minimum cover at Property Line cannot be met, the minimum slope of ¼" per foot shall govern the cover.
6. Place concrete 12" wide or well compacted bedding material 18" wide under the Tee branch, the fittings, and unsupported pipe. When bedding material is used, place additional bedding material to top of bend, the full width of the trench.
7. Min. specified cover at the property line shall be measured from existing ground surface or edge of adjacent roadway, Whichever is Lower.
8. A specific elevation at the property line, when shown on the plans or designated by the Engineer, shall govern.
9. Miter fittings shall be Max. 45°

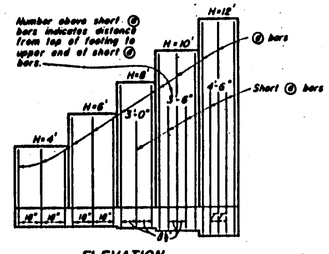
HOUSE SERVICE DETAIL



Notes:
A. #5 shown is 5/8" dia., other is nominal 1/8" in. for Type I and 1/4" in. for Type II, III and IV. Reinforcing steel shall be Grade 40 or 60 deformed bars. Galvanized steel shall be required in galvanized wall. Exposed steel grades shall be required. 3/4" sleeve threaded grade.
B. 6" inside dimension, 3" galvanized steel and 3/4 inch hardware cloth (Min. wire diameter 0.025"). Screen firmly to membrane.
C. Use select fill, permeable backfill material as a bottom seal, masonry mat.
D. Permeable backfill material continuous behind retaining wall or abutment.

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

Design H ft	@ 4'	8'	10'	12'
W	4'-0"	5'-0"	6'-6"	8'-0"
F Spread Ftg	1'-3"	1'-3"	1'-9"	1'-9"
Batter	None	None	None	½ : 12	½ : 12
℄ bars	#4 @ 18	#5 @ 18	#5 @ 17	#5 @ 17	#5 @ 14
Short ℄ bars	None	None	#3 @ 17	#5 @ 17	#5 @ 14
⊥ bars	#4 @ 18	#5 @ 18	#5 @ 9½	#5 @ 8½	#5 @ 7
Total ℄ bars	6 - #7	6 - #7	8 - #7	6 - #7	4 - #7
Case I k/ft	1.6	2.2	2.5	3.0	3.5
Case II k/ft	1.5	2.1	2.7	3.4	4.1
Case III k/ft	1.6	2.3	2.9	3.6	4.4
Case IV k/ft	2.0	3.2	4.2	5.3	6.3
Spread Steel lb	16	22	35	53	73
F'tg Conc. cy	2.4	3.5	17.2	24.4	36.1
Pile Steel lb	31	36	54	170	65
Footing Conc. cy	10.9	12.9	17.9	23.5	36.5



RETAINING WALL DETAILS

REV.	DATE	DESCRIPTION	BY	APP'D.

DESIGNED BY
DRAWN BY
CHECKED BY

BENCH MARK: ELEVATION
DESCRIPTION: DATUM

WILLIAM MILLER
VILLA CHAPARRAL

FIELD BOOKS
F.B. Nº
F.B. Nº
F.B. Nº

SCALE
HORIZ.: 1" = 4'
VERT.: 1" = 4'
JOB Nº 5965-019
CODE | DRAWING Nº

SECTIONS AT SOUND WALL LOCATION

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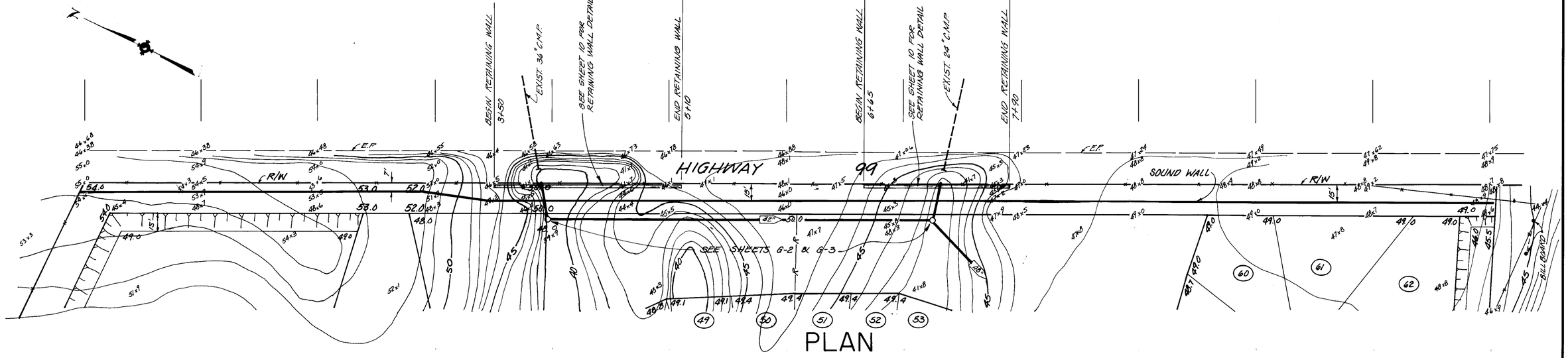
ARCHITECTURE · SURVEYING · MAPPING · SYSTEMS
730 F STREET · SACRAMENTO, CALIFORNIA 95814 · PHONE (916) 444-8170

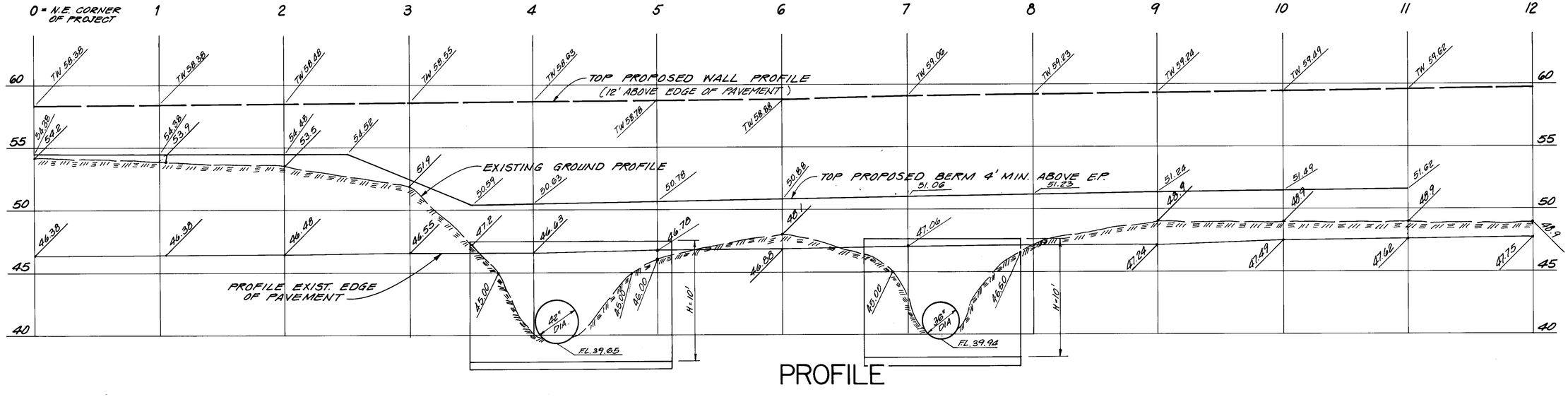
SHEET 10 OF 10

FILE NAME: Subd | DRAWER: 52 | SHEET NO.: 1015

86492



PLAN



PROFILE

FILE NAME	DRAWER	SHEET NO.
Subd	521	1716

DESIGNED BY
DRAWN BY
CHECKED BY

REV.	DATE	DESCRIPTION	BY	APP'D.

BENCH MARK: ELEVATION
DESCRIPTION: DATUM

WILLIAM MILLER
VILLA CHAPARRAL

FIELD BOOKS
F.B. Nº
F.B. Nº
F.B. Nº

SCALE
HORZ.: 1" = 40'
VERT.: 1" = 4'
JOB Nº 5963-019
CODE | DRAWING Nº

PLAN & PROFILE AT SOUND WALL LOCATION

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ARCHITECTURE · SURVEYING · MAPPING · SYSTEMS
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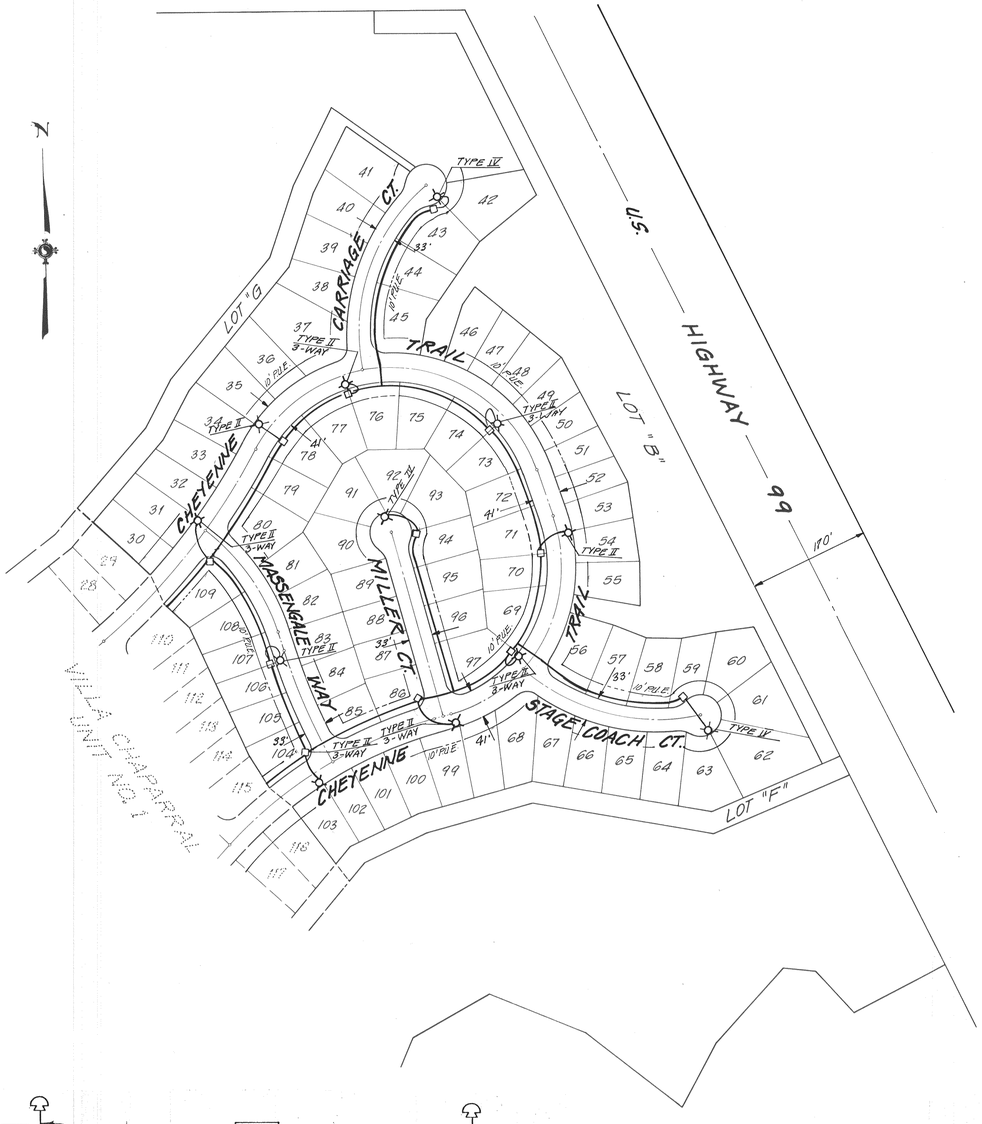
SHEET 9 OF 10

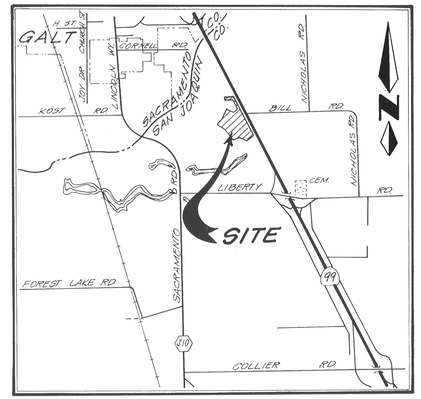
82484

VILLA CHAPARRAL UNIT NO. 2

THIS PLAN IS NOT APART OF THIS CONTRACT

ALL STREET LIGHTING IS TO BE PROVIDED BY P. G. & E.





VICINITY MAP

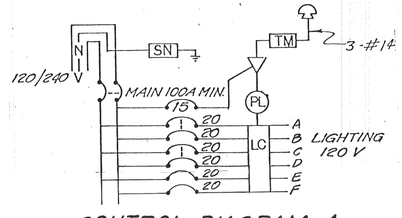
NO SCALE

GENERAL NOTES:

1. ALL STREET LIGHT LUMINAIRES SHALL BE HIGH PRESSURE SODIUM TYPE.
2. TYPE "A" STREET LIGHTS SHALL HAVE 150 WATT LAMPS.
3. TYPE "B" STREET LIGHTS WILL BE 100 WATT, TYPE II DISTRIBUTION, UNLESS OTHERWISE NOTED.
4. STREET LIGHTING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH WATER CONTRACTOR TO AVOID CONFLICTS IN PLACEMENT OF STREET LIGHTING SYSTEM AND WATER SYSTEM.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND/OR UTILITY DISTRICT AS TO LOCATION OF ALL UNDERGROUND FACILITIES.
6. A NO 3½ PULLBOX WILL BE ALLOWED WHEN THREE CONDUITS OR LESS ARE INVOLVED FOR ALL OTHER SITUATIONS A NO. 5 PULLBOX SHALL BE EMPLOYED.
7. PUBLIC UTILITY EASEMENT ARE 10'-0" BEHIND *PROPERTY LINE* UNLESS OTHERWISE NOTED ON DRAWING.

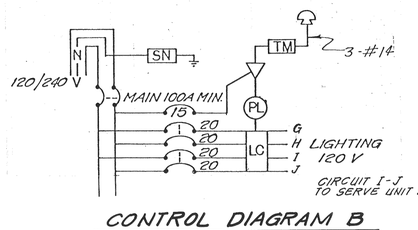
SYMBOL LIST

- ⊙ ..... STREET LIGHT WITH PHOTO CELL FOR LIGHT IDENTIFICATION.
- ⊠ ..... STREET LIGHT, COUNTY OF SACRAMENTO IMPROVEMENT STANDARDS TYPE "B" WITH CIRCUIT IDENTIFICATION.
- ⫽⫽ ..... 1" CONDUIT UNLESS OTHERWISE NOTED 24" BELOW FINISHED GRADE FOR 6' SIDEWALK. 18" BELOW FINISHED GRADE FOR 4' SIDEWALK. SLASH MARKS INDICATE NUMBER OF CONDUCTORS REQUIRED. USE NO. 10 AWG THW UNLESS OTHERWISE INDICATED.
- ▲ ..... UTILITY CO. TRANSFORMER.
- SBX ..... UTILITY CO. UNDERGROUND SIDEWALK BOX.
- □ ..... PULLBOX, NO. 3½ UNLESS OTHERWISE NOTED.



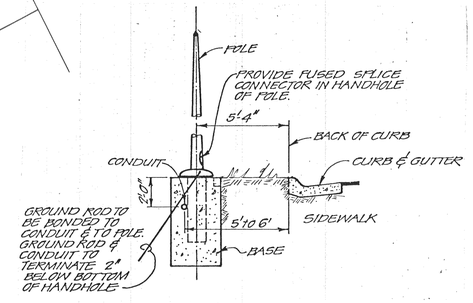
CONTROL DIAGRAM A

NO SCALE



CONTROL DIAGRAM B

NO SCALE



POLE BASE LOCATION DETAIL

4' SIDEWALK

NO SCALE

DESIGNED BY W. RASMUSSEN	REV.	DATE	DESCRIPTION	BY	APP'D.	BENCH MARK: ELEVATION 49.26 DATUM U.S.G.S. DESCRIPTION: 1-3/8" BRASS DISC STAMPED "SAC CO B.M. 5-22, NELSON" LOCATED IN TOP OF S.W. CORNER OF N.W. ABUTMENT OF CONC. BRIDGE ON LINCOLN WAY AT DRY CREEK & 0.10 MI. S. OF KOST ROAD. LEVELS RUN FROM U.S.G.S. B.M. E-935.	WILLIAM MILLER VILLA CHAPARRAL UNIT NO. 2
DRAWN BY M. NIKOLICH							
CHECKED BY G. AUCLAIR							

FIELD BOOKS	SCALE		
F.B. Nº	1" = 100'		
F.B. Nº	JOB Nº 5965-019		
F.B. Nº	CODE	DRAWING Nº	STREET LIGHTING PLAN

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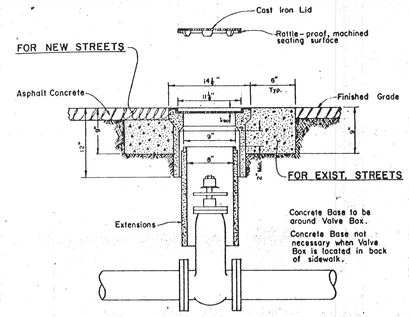
SHEET 8 OF 10

MIL. NAME: Subd. 715 | DRAWER: SIL | SHEET NO.: 1717

92484

VILLA CHAPARRAL UNIT NO. 2

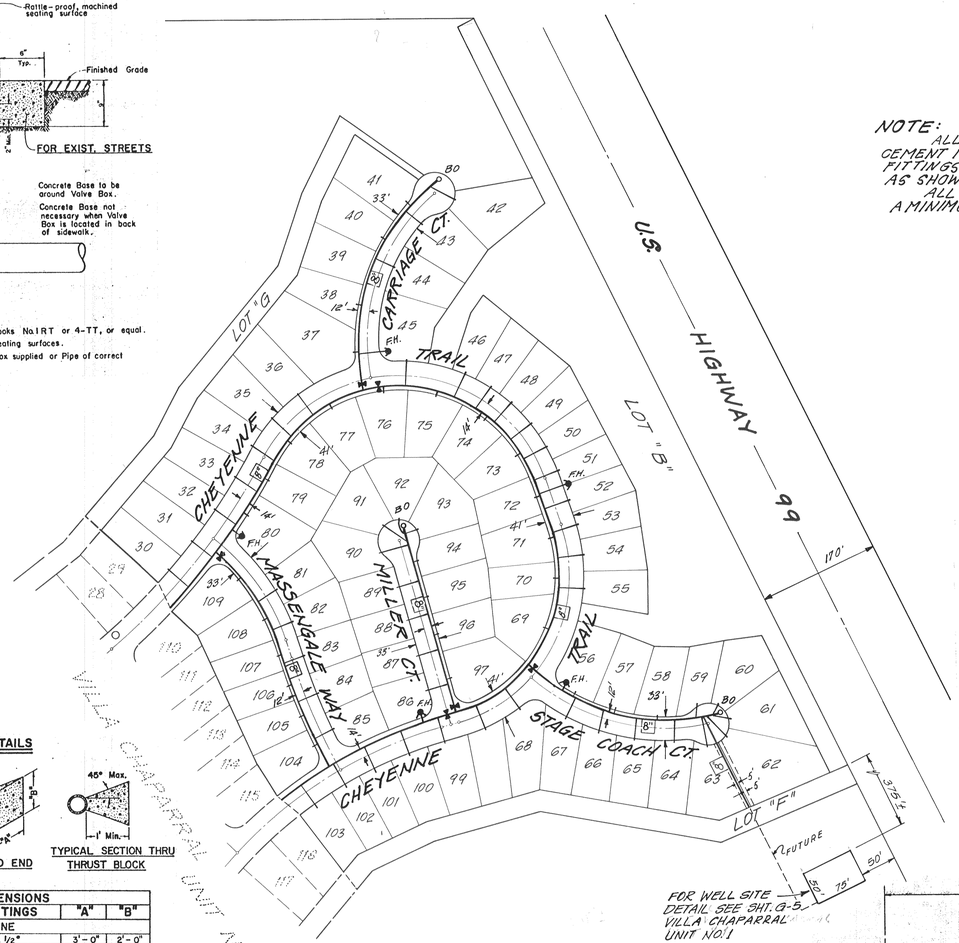
NOTE:
ALL WATER MAINS SHALL BE ASBESTOS CEMENT PIPE IN SIZES NOTED ON PLAN. FITTINGS SHALL BE OF MATERIAL & TYPE AS SHOWN IN DETAILS.
ALL WATER MAINS WILL BE PLACED AT A MINIMUM OF 36" BELOW FINISHED GRADE



NOTES:

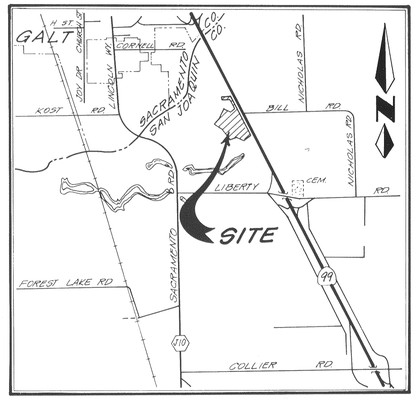
1. Valve box and Lid shall be Christy No. G5, Brooks No.1RT or 4-TT, or equal.
2. All Lids and Grade Rings shall have machined seating surfaces.
3. Extensions shall be as manufactured for the Valve Box supplied or Pipe of correct size can be used.

VALVE BOX



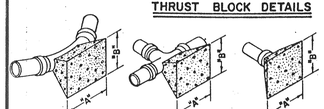
LEGEND:

- EXISTING WATER MAIN
- WATER MAIN TO BE CONSTRUCTED
- GATE VALVE TO BE PLACED
- FIRE HYDRANT ASSEMBLY TO BE PLACED
- SINGLE SERVICE TO BE CONSTRUCTED
- DOUBLE SERVICE TO BE CONSTRUCTED (Two single services in common trench)
- TEE TO BE PLACED
- CROSS TO BE PLACED
- ANGLE BEND TO BE PLACED
- 2" BLOW-OFF VALVE TO BE PLACED
- PRESSURE REDUCING VALVE TO BE PLACED
- AIR & VACUUM RELIEF VALVE TO BE PLACED
- THRUST BLOCK TO BE PLACED

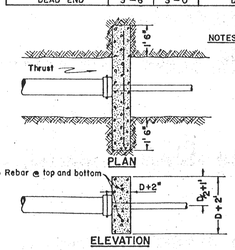


VICINITY MAP
NO SCALE

THRUST BLOCK DETAILS



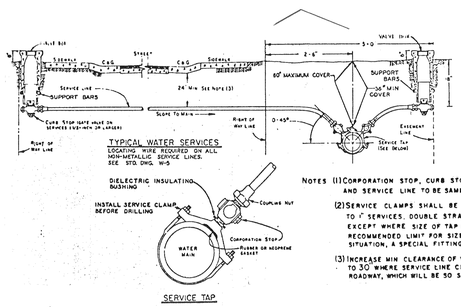
THRUST BLOCK DIMENSIONS					
FITTINGS	"A"	"B"	FITTINGS	"A"	"B"
6" LINE			10" LINE		
22 1/2°	1'-6"	1'-6"	22 1/2°	3'-0"	2'-0"
45°	2'-0"	2'-0"	45°	4'-0"	3'-0"
90°	3'-0"	2'-6"	90°	5'-6"	4'-0"
TEE OUTLET	3'-0"	2'-0"	TEE OUTLET	4'-0"	4'-0"
DEAD END	3'-0"	2'-0"	DEAD END	4'-0"	4'-0"
8" LINE			12" LINE		
22 1/2°	2'-0"	2'-0"	22 1/2°	3'-0"	3'-0"
45°	3'-0"	2'-6"	45°	4'-6"	4'-0"
90°	4'-0"	3'-6"	90°	6'-0"	4'-0"
TEE OUTLET	3'-6"	3'-0"	TEE OUTLET	5'-6"	4'-0"
DEAD END	3'-6"	3'-0"	DEAD END	5'-6"	4'-0"



NOTES: 1. All thrust blocks shall be poured against undisturbed soil and shall be Class "B" Concrete.
2. Thrust block dimensions were calculated to allow a soil bearing value of 1,000 pounds per square foot.

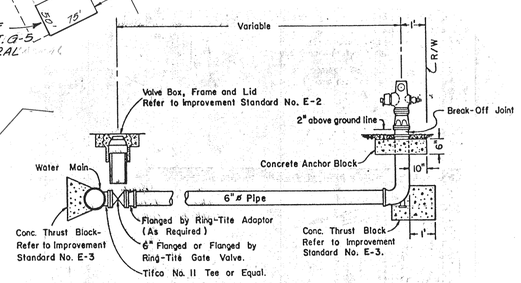
PERMANENT BLOW-OFF

THRUST BLOCK DETAILS



Notes (1) Corporation stop, curb stop (or gate valve), and service line to be same size.
(2) Service clamps shall be single strap for up to 1" services. Double strap for larger sizes, except where size of tap exceeds manufacturers' recommended limit for size of main. For this situation, a special fitting will be specified.
(3) Increase min. clearance of water service under C&G to 30" where service line crosses select system roadway, which will be so specified

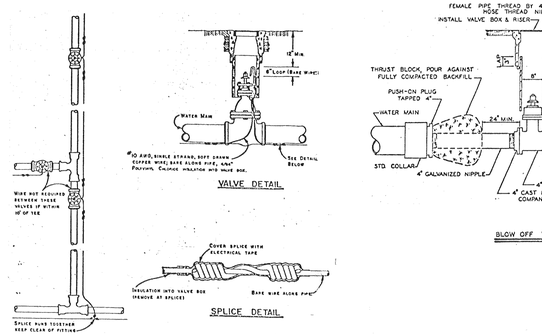
WATER SERVICE INSTALLATION



NOTES:

1. Fire Hydrants shall be placed with *4" outlet facing directly towards the street.
2. Fire Hydrants shall be clean and free of concrete.
3. Fire Hydrants to be American Darling Model B-62B, Dresser M.B.H Style 929 "Reliant", Mueller "Centurion" or "Modern Centurion", or approved equal (2-1½ & 1-4" outlets)
   * Or other size as required by the local Fire District.
4. All Hydrants shall be painted OSHA safety yellow or as required by local Fire District.

FIRE HYDRANT



DESIGNED BY						
DRAWN BY	M. NIKOLICH					
CHECKED BY	G. AUCLAIR					
		REV.	DATE	DESCRIPTION	BY	APP'D.

BENCH MARK: ELEVATION 49.26
DATUM U.S.G.S.
DESCRIPTION "1-3/8" BRASS DISC STAMPED "SAC CO B.M. 5-22, NELSON" LOCATED IN TOP OF S.W. CORNER OF N.W. ABUTMENT OF CONC. BRIDGE ON LINCOLN WAY AT DRY CREEK & 0.10 M. S. OF KOST ROAD. LEVELS RUN FROM U.S.G.S. B.M. Z-935.

WILLIAM MILLER
VILLA CHAPARRAL UNIT NO. 2

FIELD BOOKS
F.B. Nº
F.B. Nº
F.B. Nº

SCALE 1" = 100'
JOB Nº 5965-019
CODE | DRAWING Nº

WATER PLAN

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SHEET 7 OF 10

Subd. SU 1718

U.S. HIGHWAY 99
EXISTING 36" C.M.P.
END OF EXISTING PIPE FL.=40.65±
STUB 42" LINE AT PROPERTY LINE
EXISTING 24" C.M.P.
END OF EXISTING PIPE FL.=40.94±
STUB 36" LINE @ PROPERTY LINE
FL. 39.94
LOT "B"
20' EASEMENT
H=48.6
H=48.6
H=48.8
H=49.1
H=49.4
H=49.4
H=49.4
H=49.4
H=49.4
H=49.0
H=48.2
H=48.7
H=48.7
(SEE SHEET NO. 3) CHEYENNE TRAIL
DRAIN OUTFALL "A"
CHEYENNE TRAIL (SEE SHEET NO. 3)
MILLER COURT (SEE SHEET NO. 5)
H=49.1
H=49.1
H=49.1
LOT "E"
(SEE SHEET NO. 4) CHEYENNE TRAIL
DRAIN OUTFALL "B"
EXISTING GROUND PROFILE
PROPOSED FINISH GRADE
CONSTRUCT SADDLE TYPE MH.
335' x 42" C.I.P. @ S=0.0012
CONSTRUCT SADDLE TYPE M.H. & MEET EXISTING 24" C.M.P. CULVERT AS REQUIRED & PLACE SLOTTED COVER ON MANHOLE
198' x 42" C.I.P. @ S=0.0014
CONSTRUCT SADDLE TYPE M.H.
113' x 48" C.I.P. @ S=0.0016
FL. 39.62±
FL. 39.21
FL. 40.80± (EXIST. 24")
FL. 38.72
FL. 38.44
FL. 37.94
FL. 37.76
FL. 37.26
219' x 48" C.I.P. @ S=0.0018
N.I.C.
W.S.100 = 43.00
W.S.10 = 37.00
FL. 38.36
FL. 38.08
FL. 37.69
NOT A PART OF THIS CONTRACT (SEE VILLA CHAPARRAL UNIT NO. 1)
0+00 M.H.(D)
3+35 M.H.(D)
5+33 M.H.(D)
6+46 M.H.(D)
2+85 END OF PIPE

DESIGNED BY F.ORILLA	REV.	DATE	DESCRIPTION	BY / APP'D.
DRAWN BY S.VANGO				
CHECKED BY S.AUCLAIR				

BENCH MARK: ELEVATION ______ DATUM ______

DESCRIPTION: (SEE SHEET NO. 1)

WILLIAM MILLER
VILLA CHAPARRAL
UNIT NO. 2

FIELD BOOKS: F.B. No ____ F.B. No ____ F.B. No ____

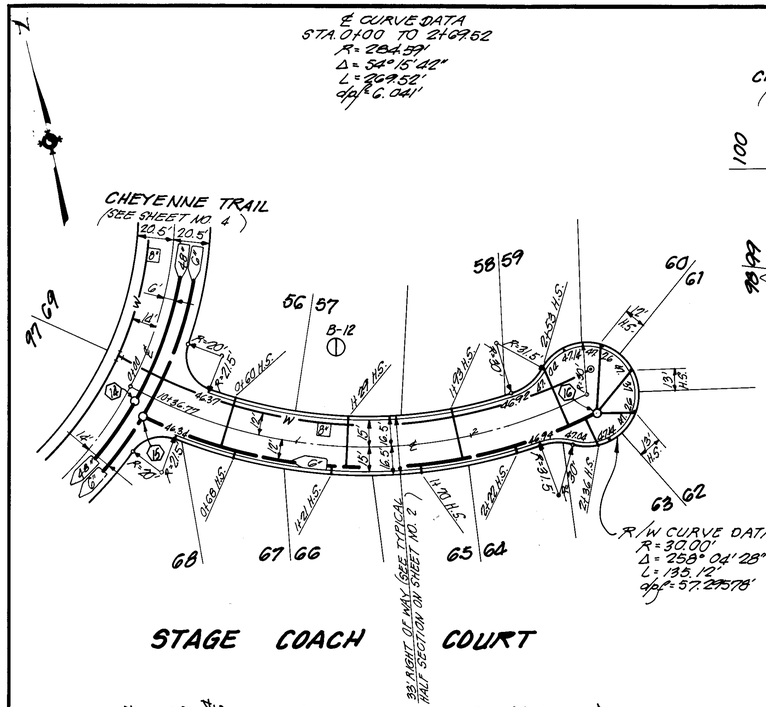
SCALE: HORIZ. 1"=40' VERT. 1"=4'

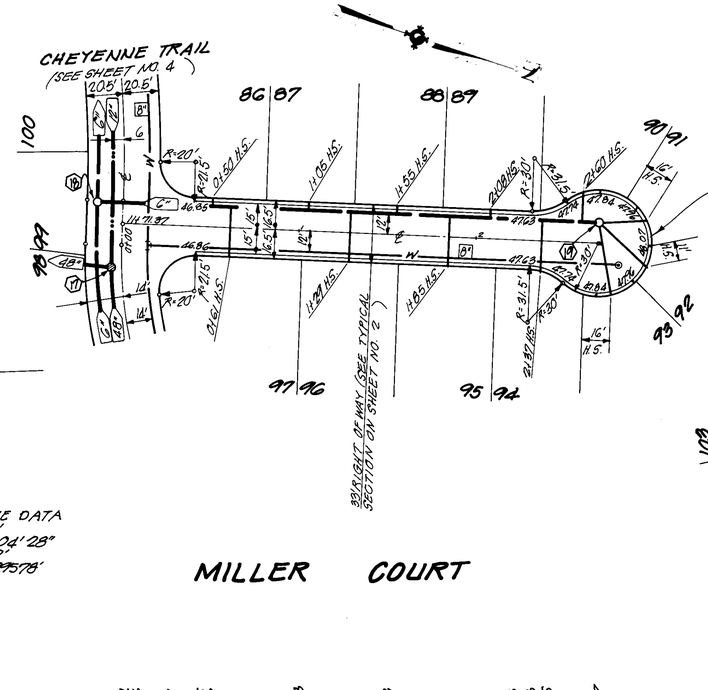
JOB No 5965-019 CODE DRAWING No

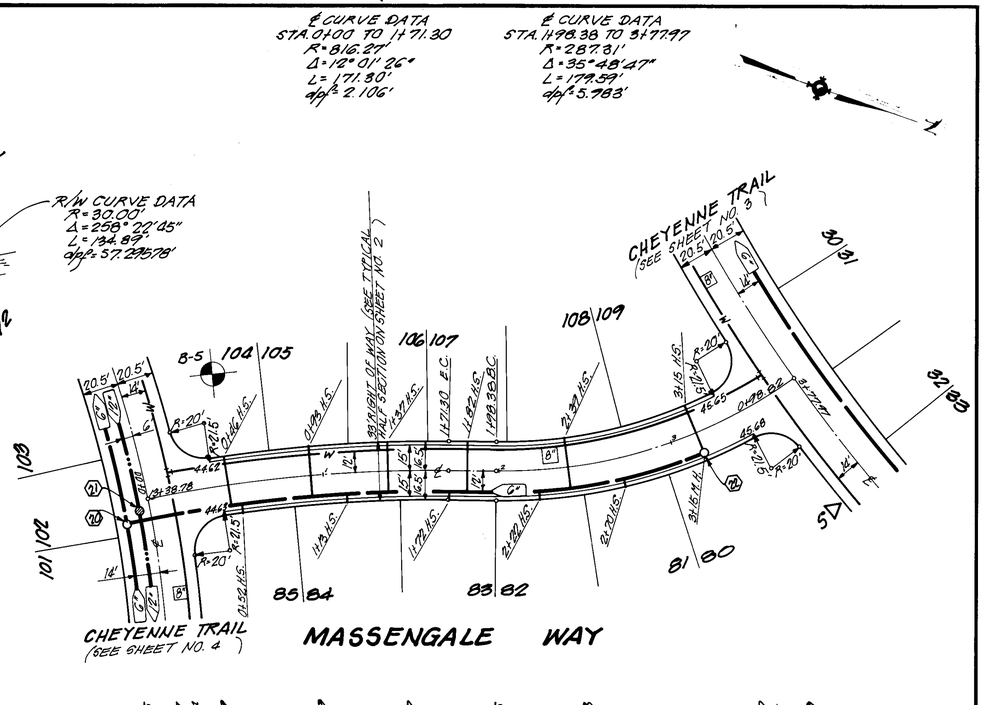
DRAIN OUTFALL "A" & "B"

THE SPINK CORPORATION
ENVIRONMENTAL PLANNING · ENGINEERING
ARCHITECTURE · SURVEYING · MAPPING · SYSTEMS
720 F STREET · SACRAMENTO, CALIFORNIA 95814 · PHONE (916) 444-8170

FILE NAME SUBD. DRAWER 54 SHEET 1719







DESIGNED BY	F.ORILLA	BENCH MARK:	ELEVATION	WILLIAM MILLER VILLA CHAPARRAL UNIT NO 2	FIELD BOOKS
DRAWN BY	S.VANGO	DESCRIPTION:	DATUM		F.B. Nº
CHECKED BY	S.AUCLAIR	(SEE SHEET NO. 1)			F.B. Nº
REV. / DATE / DESCRIPTION / BY / APP'D.					F.B. Nº

SCALE: HORIZ. 1"=40' VERT. 1"=4'
JOB Nº 5965-019
CODE | DRAWING Nº

STAGE COACH CT. MILLER CT. & MASSENGALE WAY

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SHEET 5 OF 10

SUB'D. NAME: Subd. 54 1720

DESIGNED BY	F. ORILLA
DRAWN BY	S. VANGO
CHECKED BY	S. AUCLAIR

REV.	DATE	DESCRIPTION	BY	APP'D.

BENCH MARK: ELEVATION ______ DATUM ______
DESCRIPTION: (SEE SHEET NO. 1)

WILLIAM MILLER
VILLA CHAPARRAL
UNIT NO. 2

FIELD BOOKS
F.B. Nº ______
F.B. Nº ______
F.B. Nº ______

SCALE
HORIZ. 1" = 40'
VERT. 1" = 4'
JOB Nº 5965-019
CODE | DRAWING Nº

CHEYENNE TRAIL & CARRIAGE COURT

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SHEET 4 OF 10

FILE NAME Subd. SU 178

N35075

℄ CURVE DATA
STA. 0+00 TO 0+98.82
R=936.40'
Δ=06° 02' 49"
L=98.82'
d/p²=1.832'

℄ CURVE DATA
STA. 0+98.82 TO 2+33.94
R=936.40'
Δ=08° 16' 08"
L=135.12'
d/p²=1.836'

VILLA CHAPARRAL UNIT NO. 1

LARAMEE WAY

MASSENGALE WAY
(SEE SHEET NO. 5)

CARRIAGE COURT
(SEE SHEET NO. 4)

LOT "B"

MATCH LINE 7+00
(SEE THIS SHEET)

4' RIGHT OF WAY (SEE TYPICAL SECTION ON SHEET NO. 2)

DRAIN OUTFALL "A"
(SEE SHEET NO. 6)

20' EASEMENT

MATCH LINE 10+00
(SEE THIS SHEET)

℄ CURVE DATA
STA. 2+33.94 TO 4+28.31
R=218.00'
Δ=51° 05' 11"
L=194.37'
d/p²=7.885'

℄ CURVE DATA
STA. 4+28.31 TO 7+38.25
R=218.00'
Δ=81° 27' 39"
L=309.94'
d/p²=7.885'

℄ CURVE DATA
STA. 4+28.31 TO 7+38.25
R=218.00'
Δ=81° 27' 39"
L=309.94'
d/p²=7.885'

℄ CURVE DATA
STA. 8+06.57 TO 10+36.77
R=215.00'
Δ=67° 20' 46"
L=280.20'
d/p²=7.996'

NOTE: POST SPEED LIMIT SIGNS AS DIRECTED BY SAN JOAQUIN COUNTY ENGINEER.

CHEYENNE TRAIL

① CONSTRUCT DRAIN INLET & CONNECT TO M.H. #4 / 55 L.F. OF 10" V.C.P., FL.@D.I.=42.00 FL.@M.H.=41.82 S=0.005

② CONSTRUCT DRAIN INLET & CONNECT TO M.H. #3 / 37 L.F. OF 10" V.C.P., FL.@D.I.=42.03 FL.@M.H.=41.84 S=0.005

③ CONSTRUCT DRAIN INLET & CONNECT TO M.H. #2 / 42 L.F. OF 10" V.C.P., FL.@D.I.=42.13 FL.@M.H.=41.92 S=0.005

④ REMOVE EXISTING TIMBER BARRICADE & EXIST. HEADERBOARD AS PART OF CLEARING & GRUBBING.

PROPOSED ℄ GRADES

100' V.C. M=0.17

100' V.C. M=0.16

PROPOSED ℄ GRADES
PROPOSED GUTTER GRADE
MEET EXISTING IMPROVEMENTS
WARP GUTTER TO FIT DRAIN
EXISTING ℄ GROUND PROFILE
CONSTRUCT 48" DRAIN M.H.
CONSTRUCT 48" SEWER M.H.
CONSTRUCT SADDLE TYPE MANHOLE
CONSTRUCT 48" SEWER M.H.
184' x 6" V.C.P. @ S=0.005
206' x 6" V.C.P. @ S=0.005
260' x 6" V.C.P. @ S=0.0173
050' x 15" C.M.P. (C-14) @ S=0.0002
113' x 48" C.I.P. @ S=0.0018 (M.H. TO M.H.)
EXISTING 8" SANITARY SEWER

DESIGNED BY	F.ORILLA
DRAWN BY	S.VIANGO
CHECKED BY	S.AUCLAIR

REV.	DATE	DESCRIPTION	BY	APP'D.

BENCH MARK: ELEVATION
DESCRIPTION: DATUM
(SEE SHEET NO. 1)

WILLIAM MILLER
VILLA CHAPARRAL UNIT NO. 2

FIELD BOOKS
F.B. Nº
F.B. Nº
F.B. Nº

SCALE
HORIZ. 1"=40'
VERT. 1"=4'
JOB Nº 5965-019
CODE | DRAWING Nº

CHEYENNE TRAIL

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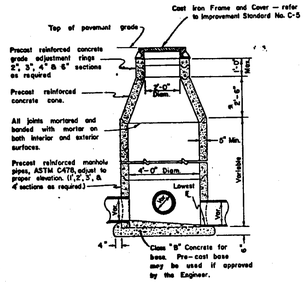
SHEET 3 OF 10

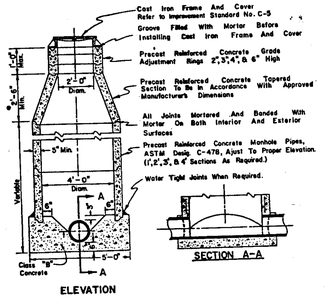
FILE No. 5vba | UNIT NO. 511 | SHEET NO. 11 of 32

82484



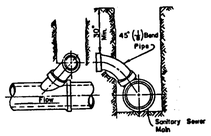
ELEVATION
STORM SEWER MANHOLE

*NOTE: A 1'-6" concrete cone may be used if approved by the Engineer.

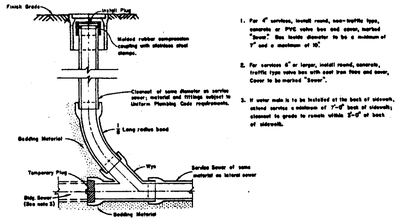


*NOTE: A 1'-6" concrete cone may be used if approved by the Engineer.

TYPICAL SANITARY
SEWER MANHOLE



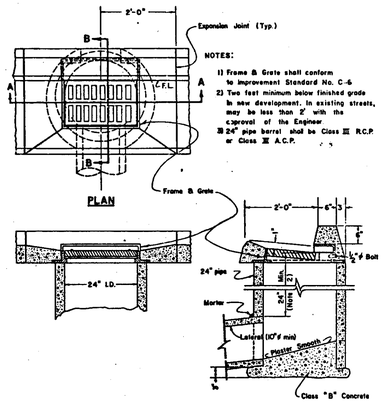
TYPICAL "Y" JOINT
SERVICE CONNECTION



1. For 4" services, install round, non-baffle type, concrete or PVC valve box and cover, marked "Sewer". Box inside diameter to be a minimum of 7" and a maximum of 10".
2. For services 6" or larger, install round, concrete, traffic type valve box with cast iron face and cover. Cover to be marked "Sewer".
3. If water main is to be installed at the back of sidewalk, extend service a minimum of 7'-0" back of sidewalk; clamost to grade to remain within 2'-0" of back of sidewalk.

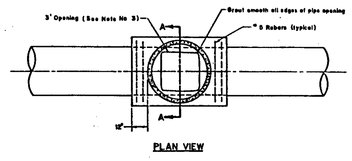
TYPICAL CLEANOUT INSTALLATION

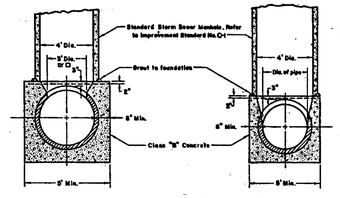
TYPICAL SANITARY
SEWER DETAILS



NOTES:
1) Frame & Grate shall conform to Improvement Standard No. C-6
2) Two feet minimum below finished grade in new development. In existing streets, may be less than 2' with the approval of the Engineer.
3) 24" pipe barrel shall be Class III R.C.P. or Class II A.C.P.

STANDARD STORM
DRAIN INLET





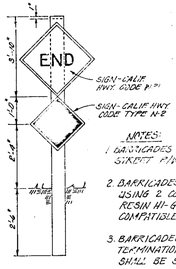
SECTION A-A
PIPES LARGER THAN 36" DIA.

SECTION A-A
PIPES 24" TO 36" DIA.

NOTES:
1. The foundation shall be a minimum of 5' for 44" O.D. pipe and smaller.
2. For pipe larger than 44" O.D., the foundation shall extend a minimum of 8" beyond each side of the pipe.
3. Opening to be 3' long x (I.D. of pipe) wide, up to 36" I.D. pipe. For pipes larger than 36" I.D., opening to be 36" Diameter or Square.

SADDLE-TYPE MANHOLE FOR
PIPE 24" DIA. AND LARGER

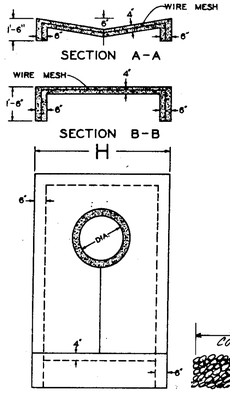
NOTE: 1. FOR HOUSE SERVICE DETAIL SEE SHT. NO. 10.
2. FOR CURB & D.I. TRANSITION DETAIL SEE SHT. NO. 10.

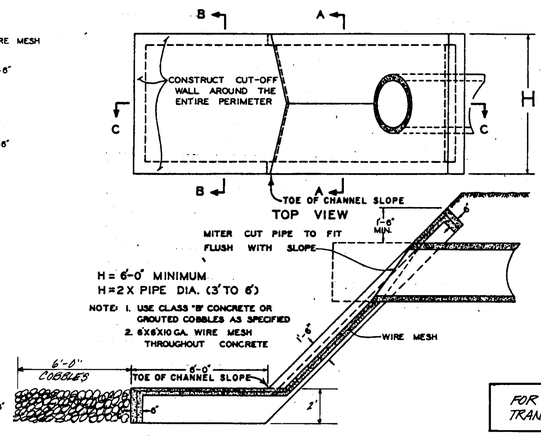


NOTES:
1. BARRICADES TO BE 8' WIDE AS STREET R/W
2. BARRICADES TO BE PAINTED WHITE USING 2 COATS OF "CATALOR AL-10 RESIN HI-GLOSS ENAMEL" OVER A COMPATIBLE PRIMER.
3. BARRICADES PLACED AT THE TERMINATION (END) OF A ROADWAY SHALL BE SIGNED WITH A W31-S.U.
4. BARRICADES THAT DEPICT A ROAD NARROWING OR A LANE DROP SHALL BE SIGNED WITH A TYPE N-2 SIGN.

TYPE "B"
PLACE AT THE TERMINATING (END) OF A ROADWAY WHEN ACCESS NECESSARY

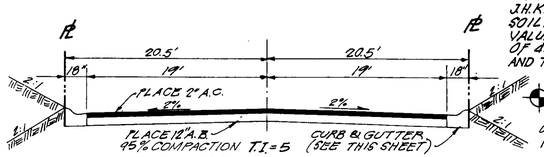
BARRICADES FOR
TERMINATING STREETS



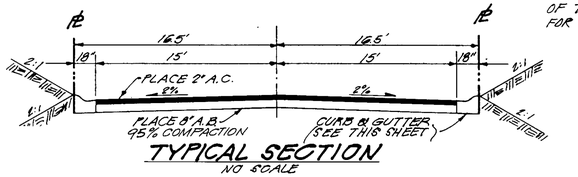


FOR DETAIL OF D.I. & CURB TRANSITION (SEE SHT. NO. 10

EROSION CONTROL STRUCTURE
NO SCALE



TYPICAL SECTION
NO SCALE

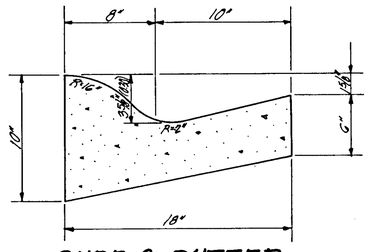


TYPICAL SECTION
NO SCALE

NOTE:
THESE TYPICAL SECTIONS COMPLY WITH THE RECOMMENDATIONS BY J.H. KLEINFELDER THE PROJECTS SOILS ENGINEER, USING AN "R" VALUE OF 8 & A TRAFFIC INDEX OF 4.0 FOR 33' RESIDENTIAL STREETS AND TRAFFIC INDEX OF 5.0 FOR 41' STREETS.

◆ B-2 - DENOTES NUMBERS AND APPROXIMATE LOCATIONS OF TEST BORINGS, DRILLED FOR PREVIOUS INVESTIGATIONS.

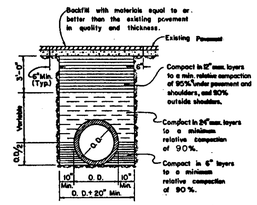
① B-11 - DENOTES NUMBERS AND APPROXIMATE LOCATIONS OF TEST BORINGS, DRILLED FOR THIS INVESTIGATIONS.



CURB & GUTTER
NO SCALE

GENERAL NOTES:

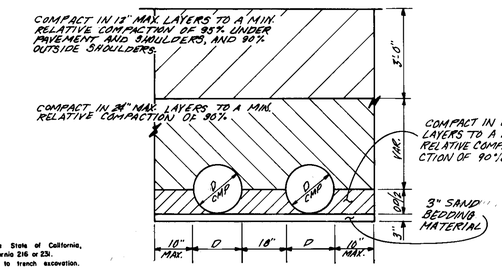
1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE COUNTY OF SAN JOAQUIN STANDARD CONSTRUCTION SPECIFICATIONS AND IMPROVEMENT STANDARDS. THE STANDARD DRAWINGS OF THE IMPROVEMENT STANDARDS SHALL SUPERSEDE THOSE OF THE STANDARD CONSTRUCTION SPECIFICATIONS WHERE DISCREPANCIES EXIST.
2. PUBLIC SAFETY AND TRAFFIC CONTROL SHALL BE PROVIDED AND DIRECTED BY THE CONTRACTOR. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION.
3. THE CONSULTING ENGINEER SHALL NOTIFY THE COUNTY OF SAN JOAQUIN IMMEDIATELY UPON COMPLETION OF STAKING. (PHONE 944-2281)
4. THE CONTRACTOR SHALL NOTIFY THE COUNTY OF SAN JOAQUIN 48 HOURS PRIOR TO THE INTENTION TO COMMENCE WORK. THE CONTRACTOR SHALL NOT START ANY GRADING UNTIL THE COUNTY COMPLETES PRE-GRADING INSPECTIONS. (PHONE 944-2281)
5. THE CONSULTING ENGINEER HAS VERIFIED IN THE FIELD AND HAS SHOWN HEREIN THE LOCATION AND ELEVATION OF ALL EXISTING STORM DRAIN FACILITIES PERTAINING TO THESE PLANS, EXCEPT WHERE NOTED OTHERWISE.
6. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF U.S.A. 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER 800-642-2444. EXCAVATION IS DEFINED AS BEING 18 OR MORE INCHES IN DEPTH BELOW THE EXISTING SURFACE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
8. ALL SERVICE SEWERS SHALL HAVE 4.0 FEET OF COVER AT THE PROPERTY LINE AND SHALL BE TO THE CENTER OF THE LOT UNLESS OTHERWISE NOTED ON THE PLANS.
9. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE SPINK CORPORATION CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS.
10. CONTRACTOR TO EXPOSE END OF EXISTING SEWER AND DRAIN LINE FOR SURVEYORS TO VERIFY LOCATION AND ELEVATION PRIOR TO PLACEMENT OF PIPE. ALL COSTS OF SUCH EXCAVATION AND BACKFILL SHALL BE INCLUDED IN PRICE PAID FOR VARIOUS ITEMS OF WORK.
11. CONTRACTOR SHALL USE 4' PIPE LENGTHS IN CURVED SECTIONS. JOINT DEFLECTION SHALL COMPLY WITH PIPE MANUFACTURER'S RECOMMENDATIONS.
12. ANY WATER ENTERING THE SANITARY SEWER SYSTEM TO BE CONSTRUCTED UNDER THESE PLANS SHALL NOT BE DISCHARGED TO THE EXISTING SYSTEM. PLUGS MUST BE INSTALLED IN THE EXISTING MANHOLES AS NECESSARY TO PERMIT PUMPING THE NEW SYSTEM CLEAR OF WATER AND DEBRIS PRIOR TO ACCEPTANCE. CARE SHALL BE EXERCISED IN LOCATING PLUGS TO AVOID INTERRUPTING SERVICE TO EXISTING CONNECTIONS. MORTAR OR BRICK PLUGS SHALL BE USED. INFLATABLE DEVICES ARE NOT SATISFACTORY.
13. MANHOLES LOCATED OUTSIDE OF PAVED AREAS SHALL HAVE RIM SET 0.5 FEET ABOVE GROUND SURFACE.
14. ALL MANHOLES SHALL BE 48" IN DIAMETER, UNLESS OTHERWISE SHOWN ON THESE PLANS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND/OR UTILITY DISTRICTS AS TO THE LOCATION OF ALL UNDERGROUND FACILITIES. CALL UNDERGROUND SERVICE ALERT (800) 642-2444 BEFORE DIGGING.
16. ALL APPLICABLE FEES TO BE PAID AND PERMITS REQUIRED SHALL BE OBTAINED BEFORE COMMENCEMENT OF CONSTRUCTION.
17. DIMENSIONS SHOWN ON PLANS ARE TO ℄ OF PIPE UNLESS OTHERWISE NOTED.



RIGID CONDUIT

NOTES:
1. Relative compaction of materials shall be tested by the State of California, Dept. of Transportation Testing Manual, test method No California 216 or 231.
2. All existing pavement shall be neatly cut in line prior to trench excavation.
3. When shown by soil composition and compactibility, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.

TYPICAL TRENCH BACKFILL



54" & 60" TRENCH
BACKFILL

DESIGNED BY	E.ORILLA						
DRAWN BY	S.VANGO						
CHECKED BY	S.AUCLAIR						
		REV.	DATE	DESCRIPTION	BY	APP'D.	

BENCH MARK: ELEVATION
DESCRIPTION: DATUM
(SEE SHEET NO. 1)

WILLIAM MILLER
VILLA CHAPARRAL
UNIT NO. 2

FIELD BOOKS
F.B. Nº
F.B. Nº
F.B. Nº

SCALE
AS SHOWN
JOB Nº 5965-019
CODE | DRAWING Nº

GENERAL NOTES & DETAILS

THE SPINK CORPORATION
ENVIRONMENTAL PLANNING · ENGINEERING
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SHEET 2 OF 10

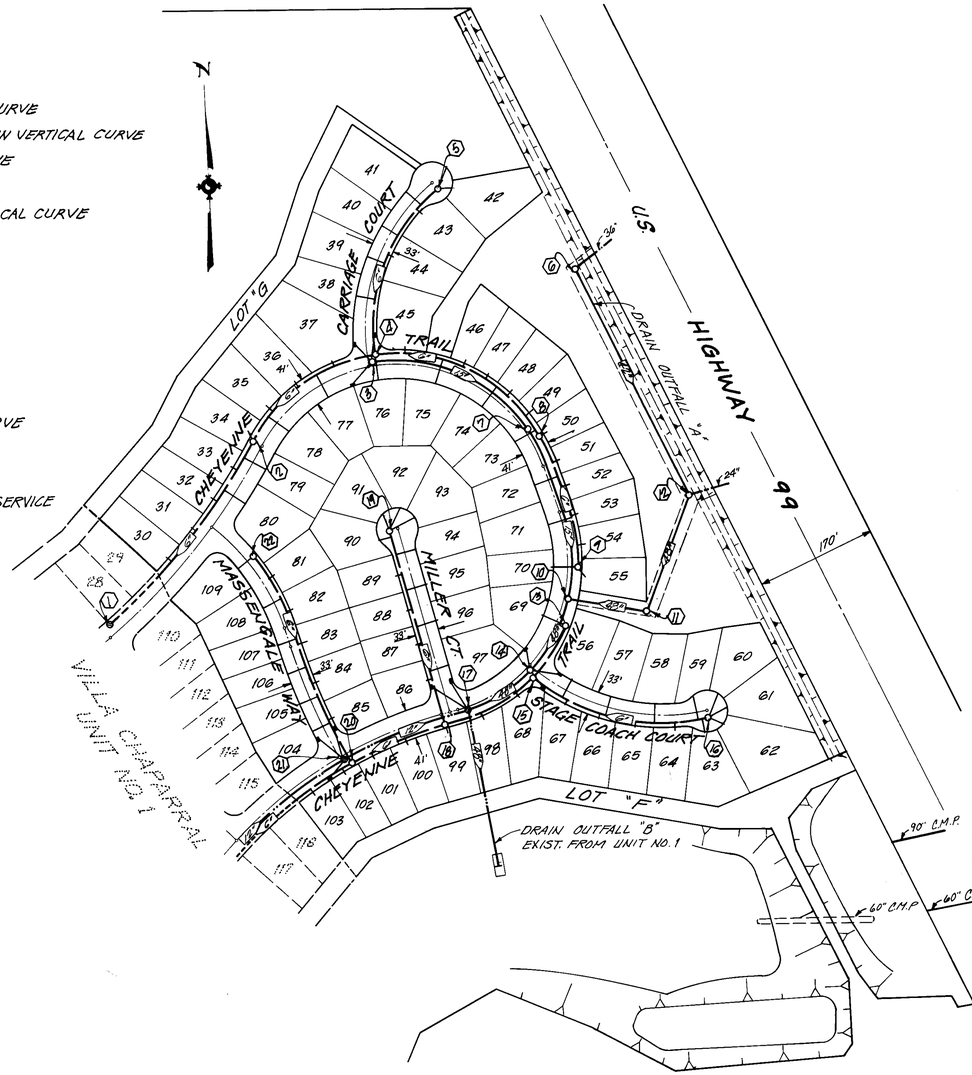
Subd. SW 1723 1

82484

VILLA CHAPARRAL UNIT NO. 2

ABREVIATIONS:

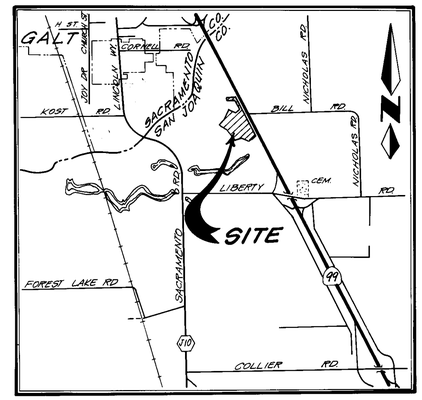
GR.CH.	GRADE CHANGE
P.I.	POINT OF INTERSECTION
D.I.	DROP INLET
M.H.	MANHOLE
B.V.C.	BEGINING OF VERTICAL CURVE
P.I.V.C.	POINT OF INTERSECTION IN VERTICAL CURVE
E.V.C.	END OF VERTICAL CURVE
B.C.	BEGINING OF CURB
P.R.V.C.	POINT OF REVERSE VERTICAL CURVE
E.C.	END OF CURVE
E.P.	EDGE OF PAVEMENT
C.R.	CURB RETURN
F.H.	FIRE HYDRANT
B.O.	BLOW-OFF
℄	CENTERLINE
C.P.	CONCRETE PIPE
P.R.C.	POINT OF REVERSE CURVE
F.L.	FLOW LINE
R/W	RIGHT OF WAY
S ▷	DIRECTION OF SAN. SEWER SERVICE
H.S.	HOUSE SERVICE



KEY MAP

1" = 100'

INDEX TO PLANS:



VICINITY MAP

NO SCALE

	SERVICE	MAINTENANCE
SEWER SYSTEM	CITY OF GALT	CSA #39
WATER SYSTEM	CITY OF GALT	CSA #39
STORM SYSTEM	CITY OF GALT	CSA #39
STREET LIGHTS	P.G. & E.	HOME OWNERS ASSN.
STREET	HOME OWNERS ASSN.	HOME OWNERS ASSN.

1. Well site to be approved by the State Health Dept. Sanitary Engineering Branch.
2. Permits required for well and pump installation from the San Joaquin Local Health Dist.

Alfred T. Olsen — 3-20-85
LOCAL HEALTH DEPT. — DATE

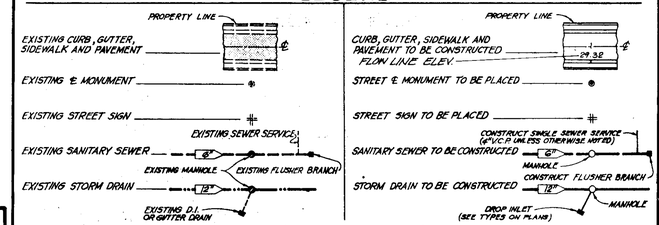
APPROVED BY: Henry M. Hirata 4/4/85
HENRY M. HIRATA — DATE
DIRECTOR OF PUBLIC WORKS
PE 21258
SAN JOAQUIN COUNTY

FOREST LAKE FIRE DISTRICT
DATE

CITY OF GALT
PUBLIC WORKS DEPT.
Robert H. Argo Jr. 4/4/85
City Engr. — DATE

THE SPINK CORPORATION
R.E. 19781
DATE: 3/27/85

LEGEND:



NOTE: BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES AND NOTIFY THE ENGINEER OF ANY DIFFERENCES BETWEEN THE PLANS AND CONDITIONS FOUND ON THE SITE.

PLANNING DEPARTMENT
SAN JOAQUIN COUNTY
Henry E. Rado — 3-20-85
PLANNING DIRECTOR — DATE

FILE NAME: Subd. — DATE — SHEET NO. 514 1724

DESIGNED BY F.ORILLA
DRAWN BY M.NIKOLICH
CHECKED BY G.AUCLAIR

REV.	DATE	DESCRIPTION	BY	APP'D

BENCH MARK: ELEVATION 49.26
DATUM U.S.G.S.
DESCRIPTION: 1-3/8" BRASS DISC STAMPED "SAC CO B.M. 5-22, NELSON" LOCATED IN TOP OF S.W. CORNER OF N.W. ABUTMENT OF CONC. BRIDGE ON LINCOLN WAY AT DRY CREEK & 0.10 MI. S. OF KOST ROAD. LEVELS RUN FROM U.S.G.S. B.M. E-935.

WILLIAM MILLER
VILLA CHAPARRAL UNIT NO. 2

FIELD BOOKS
F.B. Nº
F.B. Nº
F.B. Nº

SCALE AS SHOWN
JOB Nº 5965-019
CODE | DRAWING Nº

TITLE SHEET

THE SPINK CORPORATION
ENVIRONMENTAL PLANNING · ENGINEERING
ARCHITECTURE · SURVEYING · MAPPING · SYSTEMS
720 P STREET · SACRAMENTO, CALIFORNIA 95814 · PHONE (916) 444-8170

SHEET 1 OF 10