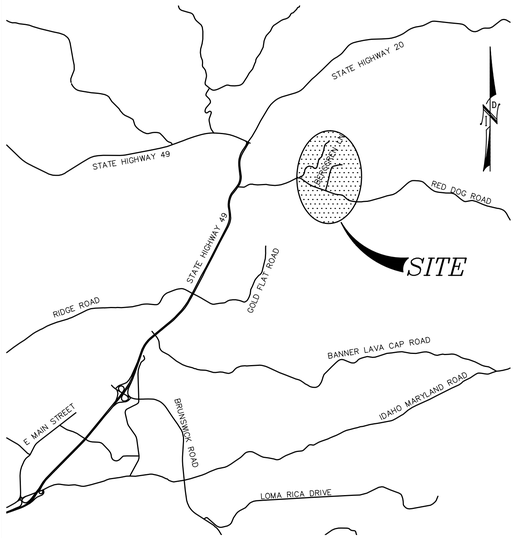
BERGGREN LANE PRV



VICINITY MAP

NOT TO SCALE

NEVADA IRRIGATION DISTRICT

DIRECTORS

PRESIDENT, CHRIS BIERWAGEN
V.P., LAURA PETERS — RICKI HECK
KAREN HULL — RICH JOHANSEN

GENERAL MANAGER

GREG JONES

SECRETARY

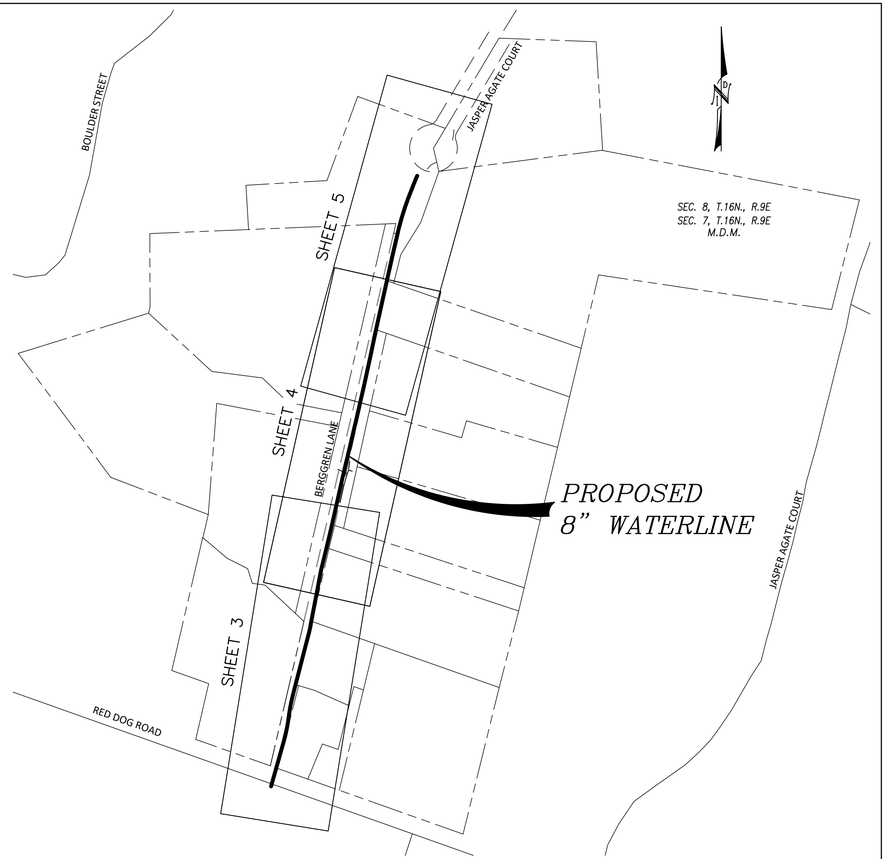
KRIS STEPANIAN

ENGINEERING MANAGER

DOUG RODERICK, P.E.

PROJECT ENGINEER

DOUGLAS HOBBS, P.E.



SITE MAP

SCALE: 1" = 150'

SHEET INDEX

1. TITLE SHEET – VICINITY MAP, SITE MAP, SHEET INDEX, LEGEND & ABBREVIATIONS
2. SITE PLAN – PARCEL NUMBERS, ADDRESSES, & RIGHT–OF–WAY DATA
3. PLAN & PROFILE – RED DOG ROAD & BERGGREN LANE – STA 10+00.00 To STA 15+00.00
4. PLAN & PROFILE – BERGGREN LANE – STA 15+00.00 To STA 20+00.00
5. PLAN & PROFILE – BERGGREN LANE – STA 20+00.00 To STA 23+17.42
6. STANDARD DETAILS
7. STANDARD DETAILS
8. STANDARD DETAILS & PRV LF25AUF–Z3 DETAIL

REGISTERED PROFESSIONAL ENGINEER
DOUGLAS H. HOBBS
C 46664
CIVIL
STATE OF CALIFORNIA

NOTES:

1. BEFORE BEGINNING EXCAVATION, VERIFY THE LOCATION OF ALL UNDERGROUND FACILITIES BY CONTACTING UNDERGROUND SERVICE ALERT. (USA) 800–642–2444
2. ALL ROADS, DRIVEWAYS, FENCES, OR OTHER APPURTENANCES DISRUPTED BY THIS PROJECT MUST BE RESTORED TO ORIGINAL CONDITION OR BETTER.
3. N.I.D. STANDARD SPECIFICATIONS WERE USED TO ESTABLISH ALL DETAILS ON THESE DRAWINGS. ALL WORK MUST CONFORM TO THE SPECIFICATIONS. (EXCEPTIONS ARE SHOWN ON DRAWINGS)
4. TRENCHES LOCATED OUTSIDE OF ROADWAY AND DRAINAGE CHANNELS SHALL HAVE BACKFILL SLIGHTLY MOUNDED OVER THE TRENCH, OR AS DETERMINED NECESSARY BY THE DISTRICT'S DIRECTOR OF MAINTENANCE.
5. COORDINATE ANY BLOCKAGE OF DRIVEWAYS TO HOUSES WITH OWNERS.
6. REPLUMB ALL EXISTING SERVICES TO NEW PIPELINE.
7. AN EFFORT SHOULD BE MADE TO PROTECT ANY TREE ROOT LARGER THAN 3–INCHES IN DIAMETER WHICH IS ENCOUNTERED DURING TRENCHING.
8. ALL WORK IN COUNTY RIGHT OF WAY SHALL CONFORM TO THE REQUIREMENTS OF THE ENCROACHMENT PERMIT.
9. CONTACT THE RIGHT OF WAY DEPARTMENT FOR SPECIAL CONDITIONS.
10. REMOVE ALL VISIBLE APPURTENANCES ON ABANDONED PIPELINES AND IMMEDIATE AREA RETURNED TO EXISTING CONDITION.

Points List				
Point #	Northing	Easting	Elevation	Description
1	2224003.37	6844495.62	2665.86	1 – CONT PT
2	2223884.64	6844434.90	2659.79	1 – CONT PT
3	2223709.74	6844397.99	2634.19	1 – CONT PT
4	2223534.83	6844342.64	2612.04	1 – CONT PT
5	2223094.07	6844262.01	2607.97	1 – CONT PT
6	2222749.96	6844170.95	2626.95	1 – CONT PT

ELEVATION DATUM: NGVD–1929

CONTROL POINT LIST

LEGEND

- A/1 — CONTROL POINT W/IDENTIFICATION
- 1/1 — DETAIL NUMBER / PAGE NUMBER DETAIL IS ON
- A/1 — SECTION LETTER / PAGE NUMBER SECTION IS ON
- 6" OAK — TREE, SIZE & TYPE
- TREE TO BE REMOVED

ABBREVIATIONS

AGG	AGGREGATE	LF	LINEAR FEET
ANG	ANGLE	MH	MANHOLE
APN	ASSESSORS PARCEL NUMBER	MJ	MECHANICAL JOINT
ARV	AIR RELEASE VALVE	MIN	MINIMUM
ASSY	ASSEMBLY	NTS	NOT TO SCALE
BC:	BEGIN CURVE	O.C., E.W.	ON CENTER, EACH WAY
CLC	CENTERLINE OF CANAL	OH E	OVERHEAD ELECTRIC
CMP	CORRUGATED METAL PIPE	PC	PROPERTY CORNER
COMB	COMBINATION	PT	POINT
CONC	CONCRETE	P&T P	POWER AND TELEPHONE POLE
DBL	DOUBLE	PVC	POLYVINYL CHLORIDE
DIP	DUCTILE IRON PIPE	R=	RADIUS EQUALS
DIR	DIRECTION	REQ'D	REQUIRED
DW	DRIVEWAY	SDMH	STORM DRAIN MANHOLE
(E)	EXISTING	SERV	SERVICE
EC:	END CURVE	SGL	SINGLE
EL OR ELEV	ELEVATION	SSMH	STORM SEWER MANHOLE
EOP	EDGE OF PAVEMENT	TC	TOP OF CUT
E.W.	EACH WAY	TFL	TOE FLOW LINE
FCA	FLANGED COUPLING ADAPTOR	TP	TELEPHONE POLE
FLG OR FLG'D	FLANGE OR FLANGED	UG E	UNDERGROUND ELECTRICAL
G	GAS	VERT	VERTICAL
GS	GAS SERVICE	w/	WITH
HGL	HYDRAULIC GRADE LINE	XING	CROSSING
HORIZ	HORIZONTAL	ø	DIAMETER
L=	LENGTH EQUALS	Δ=	DELTA EQUALS

RIGHT–OF–WAY REQUIREMENTS SATISFIED. INITIALS: MBC DATE: 4/2/21

INITIALS	REVISION	DATE	REV. NO.

N.I.D.

NEVADA IRRIGATION DISTRICT
NEVADA COUNTY -- PLACER COUNTY
GRASS VALLEY
CALIFORNIA

BERGGREN LANE PRV
TITLE SHEET

APPROVED BY: DOUG RODERICK	DESIGNED: DOUGLAS HOBBS	DATE: 4/9/21	JOB NO. 2370
SURVEY:	DRAWN: LORELEI HAMMER	DATE: 4/9/21	DRAWING NO. 5580
FACILITY NUMBER: 10313	CHECKED: STU UCHIDA	DATE: 4/9/21	SHEET NO. 1 of 8

4/9/2021 F:\DESIGN\DRAFTING\CIVIL 3D PROJECTS\2370-BERGGREN\RPV\2370-BERGGREN.RPV

SEC. 7, T. 16N, R. 09E
SEC. 8, T. 16N, R. 09E
M.D.M.

NAD83 CA STATE PLANE ZONE IIF COORDINATES
NGVD 29 ELEVATIONS

RIGHT OF WAY LEGEND:

1. RED DOG ROAD: COUNTY RIGHT OF WAY PER IMPLIED DEDICATION–SEE ADJOINER DEEDS
   COUNTY MAINTAINED ROAD LIST–ROAD NUMBER 1312010
2. BERGGREN LANE: COUNTY RIGHT OF WAY PER IMPLIED DEDICATION–SEE ADJOINER DEEDS
   COUNTY MAINTAINED ROAD LIST–ROAD NUMBER 1301010
3. NID EASEMENT PER DOC. NO. _____
   SEE RIGHT OF WAY AGREEMENT FOR SPECIAL CONDITIONS
4. COUNTY ROAD DEDICATION PER 746 O.R. 623
5. COUNTY ROAD DEDICATION PER 990 O.R. 596. PORTION ABANDONED PER 1012 O.R. 218 (7 RS 52)
6. PUBLIC UTILITY EASEMENT (P.U.E.) PER 8 SUB 44–AREA "B"
7. JASPER AGATE COURT–PRIVATE ROAD (P.U.E.) PER 8 SUB 44
   STONEBRIDGE HOMEOWNERS ASSOCIATION – CONTACT INFO: DAVID BALL–PHONE (904) 210–0823 – ADDRESS 10701 JASPER AGATE CT
   STEPHANIE NICHOLS–PHONE (530) 478–9077 – ADDRESS 10726 MURCHIE MINE RD

REGISTERED PROFESSIONAL ENGINEER
DOUGLAS H. HOBBS
C 46664
CIVIL
STATE OF CALIFORNIA

INITIALS	REVISION	DATE	REV. NO.

N.I.D.

NEVADA IRRIGATION DISTRICT
NEVADA COUNTY -- PLACER COUNTY
GRASS VALLEY
CALIFORNIA

BERGGREN LANE PRV
SITE PLAN
PARCELS & ADDRESSES

APPROVED BY: DOUG RODERICK	DESIGNED: DOUGLAS HOBBS	DATE: 4/9/21	JOB NO. 2370
SURVEY:	DRAWN: LORELEI HAMMER	DATE: 4/9/21	DRAWING NO. 5580
FACILITY NUMBER: 10313	CHECKED: STU UCHIDA	DATE: 4/9/21	SHEET NO. 2 of 8

PLOT DATE: 4/9/2021

SAVED: 4/7/2021 P:\DRAWINGS\DRAFTING\CIVIL 3D PROJECTS\2370-BERGGREN LN\PRV\2370-BERGGREN LN PRV

1. NEW 8" WATERLINE
2. NEW 8" FLANGED COUPLING ADAPTER
3. NEW 8" GATE VALVE
4. NEW 10" FLANGED COUPLING ADAPTER
5. NEW 10" GATE VALVE
6. NEW 10" x 8" TEE w/ THRUST BLOCK (SD2 6)
7. (E) 10" DI WATERLINE

1 CONNECTION DETAIL
NOT TO SCALE

NOTES:
1. MAINTAIN 24" SEPARATION BETWEEN NEW 8" MAIN AND EXISTING 4" WATER MAIN. SEE DETAIL. (2 4)
2. ALL (E) SERVICES TO BE REPLACED.
3. ALL REPLACED SERVICES WILL HAVE INDIVIDUAL PRV'S INSTALLED BEHIND METER TO MAINTAIN EXISTING PRESSURE AT RESIDENCE. SEE DETAIL. (5 8)

MATCH LINE – 1 AT STATION – 15+02.33 NEXT SHEET NUMBER: 4

036-320-016
MACDONALD MARY A TRSTE
10988 BERGGREN LN

0 20' 40'
(IN FEET)
1"=20'

SEC. 7, T. 16N, R. 09E
M.D.M.

SCALE: HORIZ. 1"=20'
VERT. 1"=10'

HGL = 2943'
PAVEMENT REPLACEMENT
(USE AB AS SURFACING IN UNPAVED AREAS)

REVISE THE PROFILE AS NECESSARY TO MAINTAIN A POSITIVE SLOPE TO THE MAINLINE ON RED DOG RD.

STA: 10+19± GAS PIPE CROSSING DEPTH UNKNOWN (12" MIN. CLEAR)

EXISTING GROUND

30" MINIMUM COVER (4 5) (SD1 6)

STA: 10+00 BEGIN 8" MAIN (1 3)
STA: 10+02± MAINLINE VALVE (SD9 8)
STA: 10+13.60 VERT. ANG. PT. USE 45° RESTRAINED ELBOW.
STA: 10+22.07 VERT. ANG. PT. USE 45° RESTRAINED ELBOW.
STA: 10+33± 18" CULVERT INV. EL. 2620.46± (12" MIN. CLEAR)
STA: 10+36± HYDRANT ASSY (SD8 7)
STA: 11+64± GAS PIPE CROSSING DEPTH UNKNOWN (12" MIN. CLEAR)
STA: 11+67± SINGLE SERVICE (SD10 8) (SD11 8)
STA: 12+81± SINGLE SERVICE (SD10 8) (SD11 8)
STA: 12+95± UG-E CROSSING DEPTH UNKNOWN (12" MIN. CLEAR)
STA: 12+96± GAS PIPE CROSSING DEPTH UNKNOWN (12" MIN. CLEAR)
STA: 13+51± 12" CULVERT INV. EL. 2605.73± (12" MIN. CLEAR)
STA: 13+82± 2" BOV TYPE "B" (SD6 7)
STA: 13+96± GAS PIPE CROSSING DEPTH UNKNOWN (12" MIN. CLEAR)
STA: 14+19± SINGLE SERVICE (SD10 8)
MATCHLINE STA 15+00 SEE SHT. 4

500.00 L.F. OF 8" CL350 DIP
TOTAL LENGTH OF 8" CL350 DIP 1317.42 L.F.

10+00 11+00 12+00 13+00 14+00 15+00

REGISTERED PROFESSIONAL ENGINEER
DOUGLAS H. HOBBS
C 46664
CIVIL
STATE OF CALIFORNIA

INITIALS	REVISION	DATE	REV. NO.

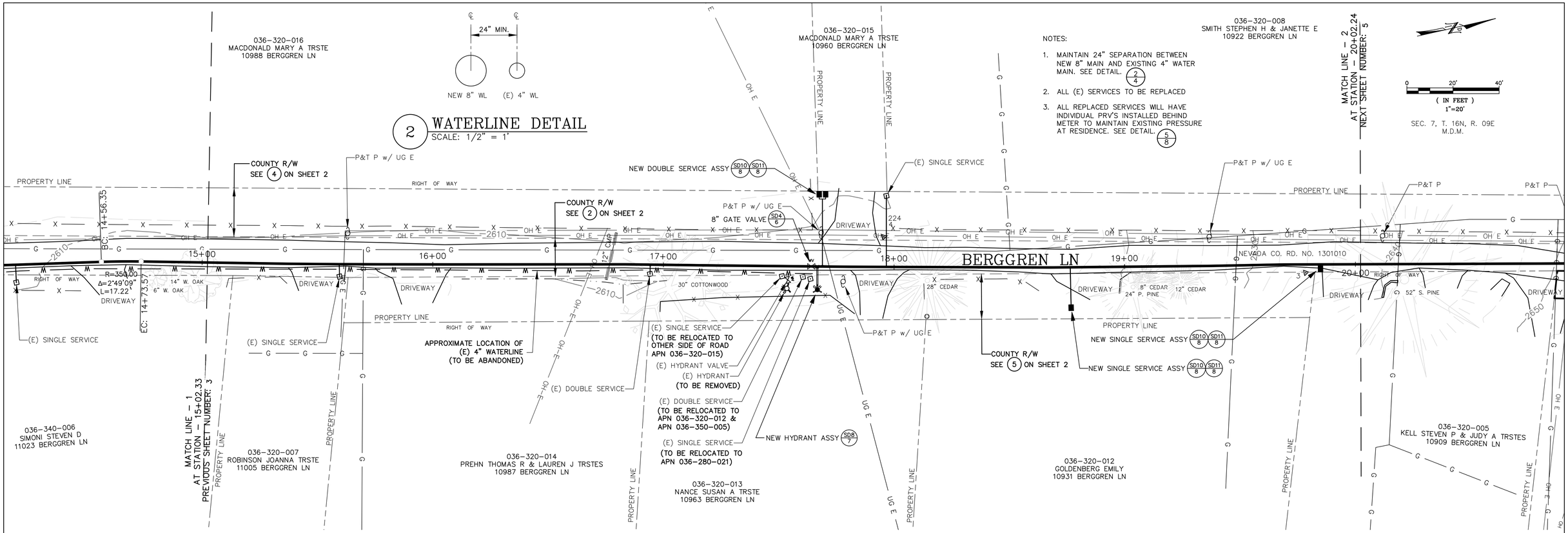
NEVADA IRRIGATION DISTRICT
NEVADA COUNTY -- PLACER COUNTY
GRASS VALLEY
CALIFORNIA

BERGGREN LANE PRV
PLAN & PROFILE – RED DOG RD & BERGGREN LN
STA 10+00.00 To STA 15+00.00

APPROVED BY: DOUG RODERICK	DESIGNED: DOUGLAS HOBBS	DATE: 4/9/21	JOB NO. 2370
SURVEY:	DRAWN: LORELEI HAMMER	DATE: 4/9/21	DRAWING NO. 5580
FACILITY NUMBER: 10313	CHECKED: STU UCHIDA	DATE: 4/9/21	SHEET NO. 3 of 8

PLOT DATE: 4/9/2021

SAVED: 4/7/2021 T:\ENGINEERING\DRAFTING\CIVIL 3D PROJECTS\2370-BERGGREN\APPV\2370-BERGGREN.APPV



INITIALS	REVISION	DATE	REV. NO.

N.I.D.

NEVADA IRRIGATION DISTRICT
NEVADA COUNTY -- PLACER COUNTY
GRASS VALLEY
CALIFORNIA

BERGGREN LANE PRV
PLAN & PROFILE – BERGGREN LN
STA 15+00.00 To STA 20+00.00

APPROVED BY: DOUG RODERICK	DESIGNED: DOUGLAS HOBBS	DATE: 4/9/21	JOB NO. 2370
SURVEY:	DRAWN: LORELEI HAMMER	DATE: 4/9/21	DRAWING NO. 5580
FACILITY NUMBER: 10313	CHECKED: STU UCHIDA	DATE: 4/9/21	SHEET NO. 4 of 8

PLOT DATE: 4/9/2021

SAVED: 4/7/2021 T:\ENGINEERING\DRAFTING\CIVIL 3D PROJECTS\2370-BERGGREN\APRV\2370-BERGGREN.APRV

1. NEW 8" WATERLINE
2. NEW 8" FLEX COUPLING
3. (E) ARV (TO BE REMOVED)
4. (E) B/O (TO BE REMOVED)
5. (E) 8" DIP WATERLINE
6. (E) PLUG (TO BE REMOVED)

3 CONNECTION DETAIL
SCALE: NOT TO SCALE

036-320-008
SMITH STEPHEN H & JANETTE E
10922 BERGGREN LN

036-390-025
BROWNELL 2019 LIVING TRUST
10415 JASPER AGATE CT

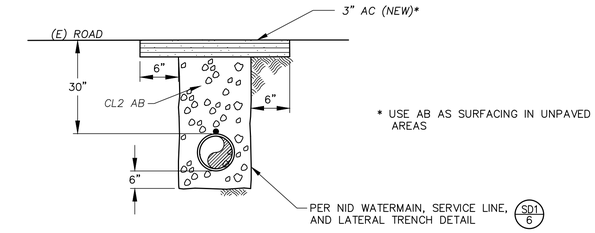
NOTES:
1. MAINTAIN 24" SEPARATION BETWEEN NEW 8" MAIN AND EXISTING 4" WATER MAIN. SEE DETAIL. (2/4)
2. ALL (E) SERVICES TO BE REPLACED
3. ALL REPLACED SERVICES WILL HAVE INDIVIDUAL PRV'S INSTALLED BEHIND METER TO MAINTAIN EXISTING PRESSURE AT RESIDENCE. SEE DETAIL. (5/8)

0 20' 40'
(IN FEET)
1"=20'
SEC. 7, T. 16N, R. 09E
SEC. 8, T. 16N. R. 09E
M.D.M.

(3/5) SEE CONNECTION DETAIL
(E) ARV BOX
(E) BOV BOX
LIGHT POLE
LIGHT POLE
COUNTY R/W SEE (4) ON SHEET 2
COUNTY R/W SEE (2) ON SHEET 2
NEW 1" COMBO ARV ASSY (SD5/7)
P&T P w/ UG E
P&T P
P&T P
GUY WIRE
GUY WIRE
PROPERTY LINE
PROPERTY LINE
GATE POST
8" B. OAK
14" D. FIR
NEVADA CO. RD. NO. 1301010
BERGGREN LN
20+00 RIGHT OF WAY
21+00
22+00
23+00
EC: 22+75.60
EC: 23+01.24
R=590.00
Δ=8°18'37"
L=85.57
R=231.58
Δ=3°58'47"
L=16.09
EC: 21+90.03
END: 23+17.32
APPROXIMATE LOCATION OF (E) 8" WATERLINE
JASPER AGATE CT
PRIVATE ROAD
(E) VALVE BOX
036-390-024
DOMENICI RALPH N
& GILLESPIE ANNE H
10421 JASPER AGATE CT
P.U.E. AREA "B" SEE (7) ON SHEET 2
DRIVEWAY
DRIVEWAY
12" CEDAR
52" S. PINE
34" P. PINE
14" CEDAR
12" CEDAR
12" CEDAR
30" CEDAR
20" MADRONE
20" MADRONE
12" B. OAK
42" P. PINE
36" P. PINE
38" CEDAR
GATE POST
2660
2650
2640
2634
2636
P.U.E. AREA "B" SEE (6) ON SHEET 2
036-320-005
KELL STEVEN P & JUDY A TRSTES
10909 BERGGREN LN
036-280-021
HILLMAN SURVIVORS TRUST
10891 BERGGREN LN
036-390-026
POOLE FRITZ
10418 JASPER AGATE CT
NEW SINGLE SERVICE ASSY (SD10/8) (SD11/8)
MATCH LINE – 2
AT STATION 20+02.24
PREVIOUS SHEET NUMBER: 4

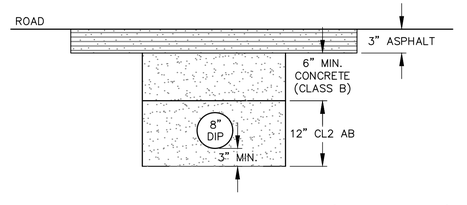
SCALE: HORIZ. 1"=20'
VERT. 1"=10'
HGL = 2943'

PAVEMENT REPLACEMENT
USE AB AS SURFACING IN UNPAVED AREAS
30" MINIMUM COVER (4/5) (SD1/6)
EXISTING GROUND
MATCHLINE STA 20+00
SEE SHT. 4
STA: 20+19± GAS PIPE CROSSING
DEPTH UNKNOWN (12" MIN. CLEAR)
STA: 20+87± GAS PIPE CROSSING
DEPTH UNKNOWN (12" MIN. CLEAR)
STA: 21+02± SINGLE SERVICE
(SD10/8) (SD11/8)
STA: 21+20± GAS PIPE CROSSING
DEPTH UNKNOWN (12" MIN. CLEAR)
STA: 22+25± 1" COMBO ARV ASSY (SD5/7)
STA: 23+17.42 END 8" MAIN (3/5)
317.42 L.F. OF 8" CL350 DIP
2690 2680 2670 2660 2650 2640 2630 2620 2610
20+00 21+00 22+00 23+00



* USE AB AS SURFACING IN UNPAVED AREAS

TRENCH DETAIL TYPICAL SECTION



SHALLOW TRENCH DETAIL (IF NEEDED)

4 TRENCH DETAILS
NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
DOUGLAS H. HOBBS
C 46664
CIVIL
STATE OF CALIFORNIA

INITIALS	REVISION	DATE	REV. NO.

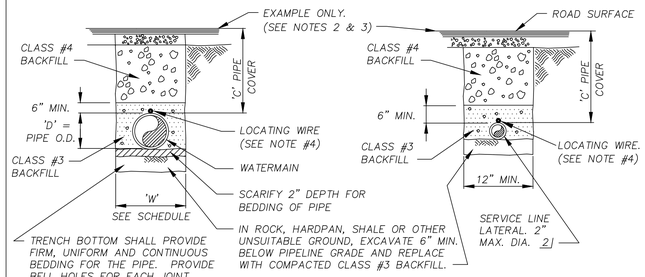
N.I.D.
NEVADA IRRIGATION DISTRICT
NEVADA COUNTY -- PLACER COUNTY
GRASS VALLEY
CALIFORNIA

BERGGREN LANE PRV
PLAN & PROFILE – BERGGREN LN
STA 20+00.00 To STA 23+17.42

APPROVED BY: DOUG RODERICK	DESIGNED: DOUGLAS HOBBS	DATE: 4/9/21	JOB NO. 2370
SURVEY:	DRAWN: LORELEI HAMMER	DATE: 4/9/21	DRAWING NO. 5580
FACILITY NUMBER: 10313	CHECKED: STU UCHIDA	DATE: 4/9/21	SHEET NO. 5 of 8

PLOT DATE: 4/9/2021

SAVED: 4/7/2021 T:\ENGINEERING\DRAFTING\CIVIL 3D PROJECTS\2370-BERGGREN\APRV\2370-BERGGREN_APRV



METALLIC WATERMAIN

METALLIC SERVICE LINE, ARV & B/O LATERALS

NOTES:

1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO "WATERMAINS" AND "SERVICE ASSEMBLIES" IN THE SPECIFICATIONS.
2. TRENCH DETAILS FOR PIPELINES LOCATED ALONG OR ACROSS ROADWAYS SHALL CONFORM TO REQUESTS OF THE APPROPRIATE REGULATORY BODY.
3. TRENCHES LOCATED OUTSIDE OF ROADWAYS SHALL HAVE BACKFILL SLIGHTLY MOUNDED OVER THE TRENCH UNLESS DETERMINED BY THE DISTRICT ENGINEER THAT A MOUND IS NOT NECESSARY.
4. LOCATING WIRE SHALL BE COATED 10 GAUGE SOLID COPPER AND SHALL CONFORM TO DRAWING NID SD3.
5. LOCATING WIRE SHOULD BE TAPED TO PIPE.
6. COMMON TRENCH WITH OTHER UTILITIES WILL NOT BE ALLOWED.

TRENCH WIDTH 'W' SCHEDULE

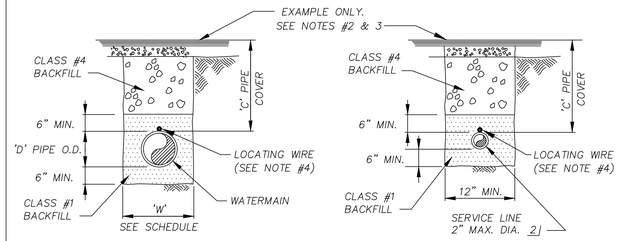
WATERMAIN SIZE "D" 1]	MIN. TRENCH WIDTH FOR TANGENTS AND CURVES OVER 1000' RADIUS	MIN. TRENCH WIDTH FOR CURVES LESS THAN 1000' RADIUS
4"	18"	24"
6" & 8"	24"	30"
10" & LARGER	O.D. + 16"	O.D. + 16"

1] 2" WATERMAIN INSTALLED AS SERVICE LINE

PIPE COVER 'C' SCHEDULE 3]

ITEM	MIN.	MAX.
WATERMAIN	PER PROFILE ON PLAN SHEETS	
SERVICE LINE & LATERALS	24"	48"
HYDRANT LATERAL	30"	48"

2] SERVICE LINES OR LATERALS OVER 2"ø SHALL BE INSTALLED AS WATERMAINS.
3] THE PROFILE, WHERE SHOWN ON THE PLANS, SHALL GOVERN OVER THIS SCHEDULE.



NON-METALLIC WATERMAIN NON-METALLIC SERVICE LINE

NOT TO SCALE

BACKFILL CLASSIFICATION

CLASS #1 MATERIAL	CLEAN SAND-FREE FROM DELETERIOUS MATERIAL WITH S.E. OF AT LEAST 50 AND MEETING THIS PERCENT BY WEIGHT GRADATION.	SIEVE SIZE	NATURAL SAND	CRUSHED SAND	DECOMPOSED GRANITE
		1-1/2"	100	---	---
		3/4"	75-100	100	100
		NO.4	55-100	75-100	75-100
		NO.200	0-15	0-5	0-5
CLASS #2 MATERIAL	SELECT EARTH FREE FROM DELETERIOUS MATERIAL AND PASSING 1" SCREEN.				
CLASS #3 MATERIAL	SELECT EARTH FREE FROM DELETERIOUS MATERIAL AND PASSING 2" SCREEN.				
CLASS #4 MATERIAL	SELECT EARTH FREE FROM DELETERIOUS MATERIAL AND PASSING 4" SCREEN.				

TRENCH BACKFILL COMPACTION SCHEDULE

ITEM	INSIDE ROADWAY 4]	OUTSIDE ROADWAY
WATERMAIN	95% MIN.	85% MIN.
SERVICE LINES & ARV LATERALS	95% MIN.	85% MIN.
HYDRANT LATERAL	95% MIN.	95% MIN.

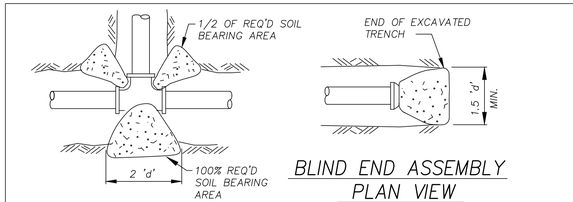
4] DEFINED AS AREA BETWEEN TOP OF CUT AND TOE OF FILL OF ROADWAY CROSS SECTION.

BOARD REVIEW: 3-10-10 REVISED 10-30-12 G.K.

WATERMAIN, SERVICE LINE AND LATERAL TRENCH DETAILS

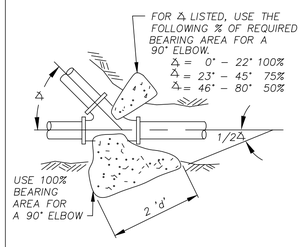
NOT TO SCALE

NID SD1

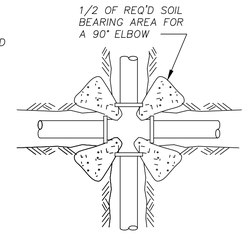


TEE - PLAN VIEW

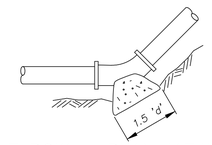
BLIND END ASSEMBLY PLAN VIEW



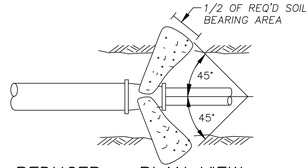
WYE - PLAN VIEW



CROSS - PLAN VIEW



ELBOW - PLAN VIEW



REDUCER - PLAN VIEW

NOTES:

1. MATERIALS AND INSTALLATION SHALL CONFORM TO REACTION BLOCKING FOR "WATERMAINS" IN THE SPECIFICATIONS.
2. THRUST BLOCKS SHALL BE PLACED AT ALL HORIZONTAL DEFLECTIONS IN EXCESS OF 6° AND ALL DOWNWARD VERTICAL DEFLECTIONS IN EXCESS OF 6°.
3. MAXIMUM ESTIMATED SOIL BEARING CAPACITY SHALL NOT EXCEED 2,000 P.S.F. UNLESS OTHERWISE APPROVED BY DISTRICT ENGINEER.
4. MINIMUM SOIL BEARING AREAS ARE BASED ON A WORKING PRESSURE 150 P.S.I. WITH A 1.5 SAFETY FACTOR PLUS 75 P.S.I. SURGE (TOTAL 300 P.S.I.) CALCULATION FOR BEARING AREAS FOR WORKING PRESSURE HIGHER THAN 150 P.S.I. MUST BE APPROVED BY THE DISTRICT ENGINEER.
5. CONCRETE SHALL BE PLACED BETWEEN THE FITTING AND UNDISTURBED SOIL.
6. THRUST BLOCKS SHALL BE NEATLY FORMED USING PLYWOOD OR SANDBAGS. FORMING MATERIALS SHALL BE REMOVED UPON INITIAL CURE OF CONCRETE & PRIOR TO BACKFILLING.
7. THRUST BLOCKS SHALL BE CONSTRUCTED OF 2,000 PSI CONCRETE.
8. CONCRETE SHALL NOT BE PLACED ON OR AROUND PIPE, BELLS, FLANGES OR OTHER JOINTS. IF UNAVOIDABLE, AND WITH APPROVAL OF THE DISTRICT ENGINEER, THESE AREAS SHALL BE PROTECTED WITH A DOUBLE WRAP OF 6 MIL POLYETHYLENE FILM.
9. THRUST BLOCKS PLACED ON BLIND FLANGES ADJACENT TO OTHER THRUST BLOCKS ON THE SAME FITTING SHALL BE SEPARATED FROM THE PERMANENT THRUST BLOCKS WITH A PLYWOOD DIVIDER IN ORDER TO FACILITATE ITS REMOVAL.

THRUST BLOCK SCHEDULE

PIPE SIZE 1] 2]	MAX. SOIL BEARING CAPACITY (1,000 P.S.F.) SEE NOTE 3	REQUIRED SOIL BEARING (SQ. FT.) - SEE NOTE #4.					
		BLIND END OR TEE	ELBOW				REDUCER OR CROSS
			90°-46°	45°-23°	22 1/2°-12°	11 1/4°-6°	
4" & 6"	10	2	2	1	1	1	2
	4	3	3	2	1	1	3
	2	5	6	4	2	1	6
	1	9	12	8	4	2	12
8"	10	2	3	2	1	1	3
	4	4	6	3	2	1	9
	2	8	11	6	3	2	11
	1	16	22	12	6	3	22
10"	10	3	4	2	2	1	4
	4	6	9	5	3	2	9
	2	12	17	10	5	3	17
	1	24	34	20	10	5	34
12"	10	4	5	3	2	1	5
	4	9	12	7	3	2	12
	2	17	24	13	7	4	24
	1	34	48	26	14	7	48

SOIL DESCRIPTION		
	10	HARD, SOUND SHALE
	4	SAND & GRAVEL CEMENTED WITH CLAY-HARD TO PICK
	2	SANDY MEDIUM CLAY - CAN BE SPADED
	1	SOFT CLAY

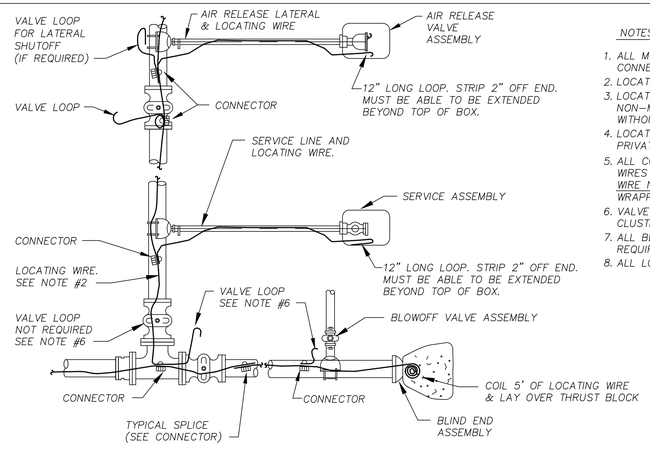
'd' = DEPTH OF SOIL BEARING SURFACE
1] REQUIRED SOIL BEARING AREA FOR SIZES LARGER THAN 12" MUST BE APPROVED BY DISTRICT ENGINEER OR SHALL BE AS SHOWN ON THE PLANS.
2] FOR 2" PIPE SIZE, USE 25% OF THE TABLE VALUE FOR 4".

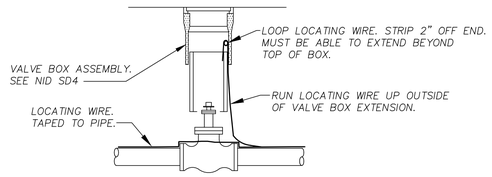
BOARD REVIEW: 3-10-10 SD NUMBER REVISED 6-27-14

THRUST BLOCKS

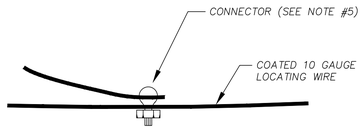
NOT TO SCALE

NID SD2





VALVE LOOP DETAIL



CONNECTOR DETAIL

NOTES:

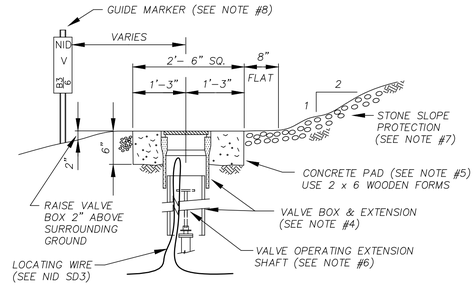
1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO LOCATING WIRE AND CONNECTORS FOR "WATER MAINS" IN THE SPECIFICATIONS.
2. LOCATING WIRE SHALL BE COATED 10 GAUGE SOLID COPPER.
3. LOCATING WIRE SHALL BE PLACED ABOVE AND CENTERED OVER ALL NON-METALLIC PIPE AND OVER ALL METALLIC PIPE USING 'O' RING JOINTS WITHOUT BONDING STRAPS.
4. LOCATING WIRE SHALL BE PLACED OVER ALL SERVICE LINES INCLUDING PRIVATE FIRE SERVICE LATERALS AND AIR RELEASE VALVE LATERALS.
5. ALL CONNECTORS FOR SPLICES AND OTHER CONNECTIONS TO THE LOCATING WIRES SHALL BE MADE WITH SPLIT BOLT OR PARALLEL CONNECTORS - (NO WIRE NUTS). ALL SPLICES AND CONNECTIONS AND THE CONNECTOR SHALL BE WRAPPED THOROUGHLY WITH VINYL ELECTRICAL TAPE.
6. VALVE LOOPS ARE REQUIRED FOR ONLY ONE VALVE IN A CLUSTER OF VALVES PROVIDING THEY ARE ALL WITHIN A 2' RADIUS.
7. ALL BLOWOFF VALVES AND AIR RELEASE LATERAL SHUTOFF VALVES (IF REQUIRED) SHALL BE INSTALLED WITH A LOCATING WIRE VALVE LOOP.
8. ALL LOCATING WIRE SHALL BE TESTED FOR CONTINUITY.

BOARD REVIEW: 3-10-10 REVISED: 10-30-12 G.K. SD NUMBER REVISED 6-27-14

LOCATING WIRE

NOT TO SCALE

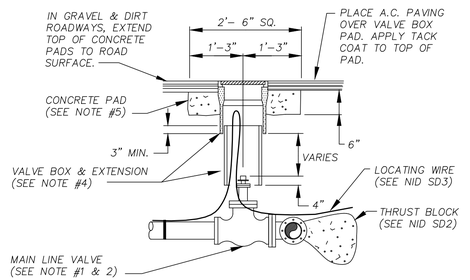
NID SD3



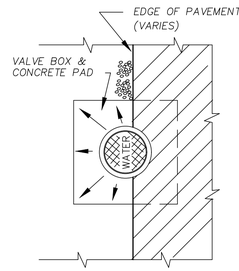
OUTSIDE ROAD ASSEMBLY

NOTES:

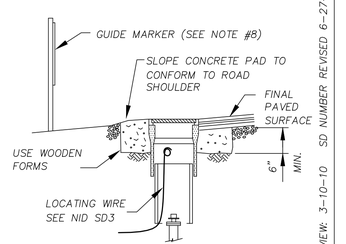
1. ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO "MAINLINE VALVES" IN THE SPECIFICATIONS.
2. VALVES SHALL BE OF THE TYPE ALLOWED IN THE SPECIFICATIONS.
3. JOINTS MAY BE FLANGED, MECHANICAL OR 'O' RING PUSH ON JOINTS EXCEPT WHERE SPECIFIC TYPES OF JOINTS ARE SHOWN ON THE PLANS OR DESIGNATED IN THE SPECIFICATIONS. ALL JOINTS SHALL BE PROTECTED FROM CORROSION AS REQUIRED IN THE SPECIFICATIONS.
4. VALVE BOXES SHALL BE CHRISTY G5 WITH A RATTLEPROOF CAST IRON LID MARKED "WATER". BOX EXTENSIONS SHALL BE PRECAST CONCRETE OR 8" SMOOTH WALL P.V.C. PIPE WITH MIN. SDR OF 35 AND ENDS CUT SQUARE. BOX EXTENSIONS SHALL BE CENTERED OVER THE VALVE OPERATING NUT AND CONCENTRIC WITH THE VALVE STEM.
5. VALVE BOX PADS SHALL BE 3,000 P.S.I. CONCRETE.
6. A VALVE OPERATOR EXTENSION SHAFT SHALL BE FURNISHED AND INSTALLED FOR ALL VALVES WITH OPERATING NUTS PLACED 36" OR MORE BELOW THE TOP OF THE VALVE BOX. REFER TO NID SD9.
7. PLACE STONE SLOPE PROTECTION OF NO. 3 BACKING ROCK PER CALTRANS SEC. 72, ON ALL CUT SLOPES SURROUNDING VALVE ASSEMBLIES AS DIRECTED.
8. A GUIDE MARKER SHALL BE FURNISHED AND INSTALLED AS DIRECTED. REFER TO DRAWING NID SD9.



INSIDE ROAD ASSEMBLY



PLAN



ELEVATION

VALVE BOX IN ROAD SHOULDER

BOARD REVIEW: 3-10-10 SD NUMBER REVISED 6-27-14

MAINLINE VALVE ASSEMBLY

NOT TO SCALE

NID SD4

INITIALS	REVISION	DATE	REV. NO.

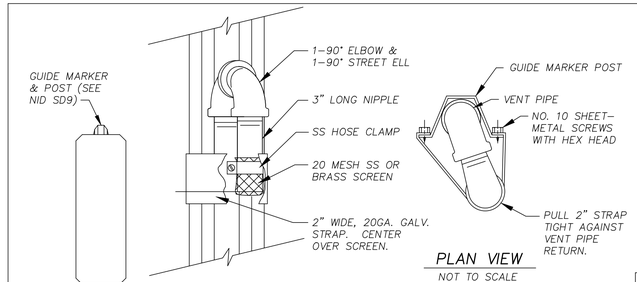
N.I.D.

NEVADA IRRIGATION DISTRICT
NEVADA COUNTY -- PLACER COUNTY
GRASS VALLEY
CALIFORNIA

BERGGREN LANE PRV
STANDARD DETAILS

	DESIGNED: DOUGLAS HOBBS	DATE: 4/9/21	JOB NO. 2370
RECOMMENDED BY:	DRAWN: LORELEI HAMMER	DATE: 4/9/21	SERIAL NO. 5580
	CHECKED: STU UCHIDA	DATE: 4/9/21	SHEET NO. 6 of 8

F:\ENGINEERING\DRAFTING\CIVIL 3D PROJECTS\2370-BERGGREN\PRV\2370-STANDARD DETAILS

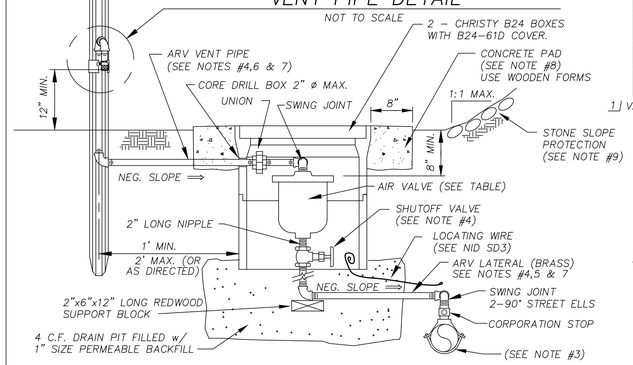


PLAN VIEW

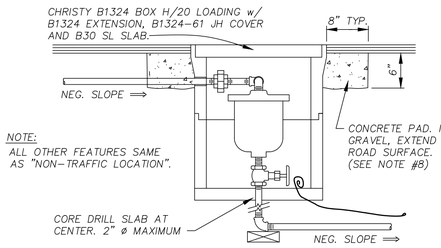
NOT TO SCALE

VENT PIPE DETAIL

NOT TO SCALE



NON - TRAFFIC LOCATION



NOTE:
ALL OTHER FEATURES SAME AS "NON-TRAFFIC LOCATION".

TRAFFIC LOCATION

NOTES:

1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO "AIR RELEASE VALVE ASSEMBLIES" IN THE SPECIFICATIONS.
2. THE SIZE, TYPE AND LOCATION OF ARV ASSEMBLIES SHALL BE AS NOTED ON THE PLANS. LOCATIONS ARE APPROXIMATE AND SHALL BE AS DIRECTED.
3. THE TAP AND SADDLE FOR THE CONNECTION TO THE WATERMAIN SHALL CONFORM TO "WATERMAIN TAPS" IN THE SPECIFICATIONS.
4. LATERAL AND VENT PIPES AND SHUTOFF VALVES SHALL BE THE SAME NOMINAL SIZE AS THE ARV. REFER TO DRAWING NID SD1 FOR TRENCH DETAILS.
5. LATERAL PIPE AND FITTINGS SHALL BE BRASS.
6. VENT PIPE AND FITTINGS SHALL BE GALVANIZED IRON.
7. THE SADDLE AND ALL BURIED LATERAL AND VENT PIPES, INCLUDING THOSE ENCASED IN CONCRETE, SHALL BE PRIMED AND WRAPPED FOR CORROSION PROTECTION AS DESCRIBED IN THE SPECIFICATIONS.
8. CONCRETE FOR VALVE BOX PADS SHALL BE 3000 PSI.
9. PLACE STONE SLOPE PROTECTION OF NO. 3 BACKING ROCK PER CALTRANS SEC. 72, ON ALL CUT SLOPES SURROUNDING ARV ASSEMBLIES, AS DIRECTED.
10. REFER TO DRAWING NID SD1 FOR TRENCH DETAILS.

AIR VALVE TABLE

VALVE TYPE 1/	VALVE SIZE (IN.)	MAX. ORIFICE (IN.)	APCO	CRISPIN
AIR & VACUUM RELEASE	1"		142	
AIR RELEASE	3/4"	1/16"	65(150 PSI MAX)	M8 MIDGET
	1"	3/32"-3/16"	200A	P 10
COMBINATION AIR RELEASE	1"	3/32"	143C	UL 10

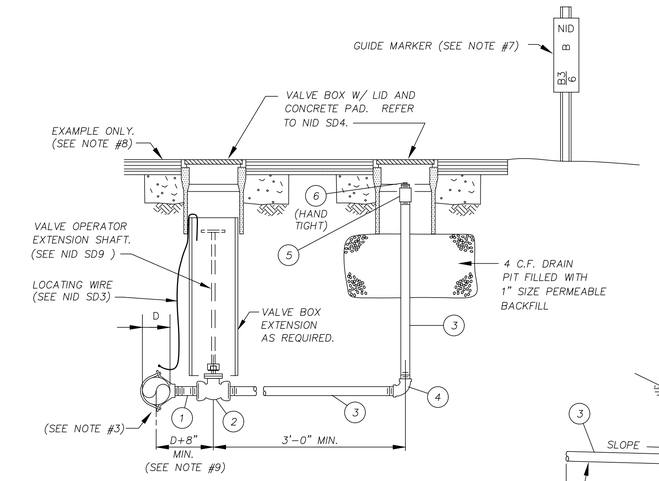
1/ VALVES LISTED ARE RATED FOR 250 PSI WORKING PRESSURE UNLESS OTHERWISE NOTED.

BOARD REVIEW: 3-10-10
SD NUMBER REVISED 6-27-14

3/4" & 1" AIR RELEASE VALVE ASSEMBLY

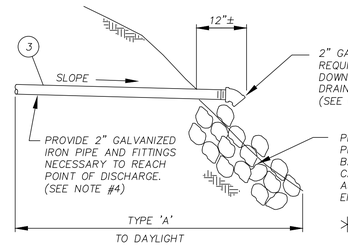
NOT TO SCALE

NID SD5



TYPE 'B' BLOWOFF ASSEMBLY W/ RISER

1. 2" BRASS NIPPLE
2. 2" RESILIENT SEAT CAST IRON VALVE
3. 2" GALVANIZED IRON PIPE
4. 2" 90° ELBOW, GALVANIZED
5. 2" COUPLING, GALVANIZED
6. 2" PLUG, SCH 40 PVC - HAND TIGHT



TYPE 'A' BLOWOFF ASSEMBLY

NOTES:

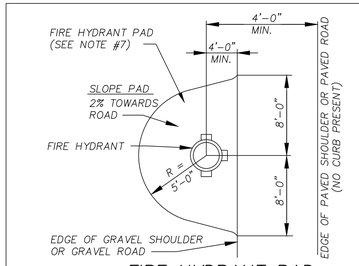
1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO "BLOWOFF VALVE ASSEMBLIES" IN THE SPECIFICATIONS.
2. THE TYPE OF BLOWOFF ASSEMBLY SHALL BE AS NOTED ON THE PLANS FOR EACH LOCATION.
3. THE TAP AND SADDLE FOR THE CONNECTION TO THE WATERMAIN SHALL CONFORM TO "WATERMAIN TAPS" IN THE SPECIFICATIONS.
4. PIPE, SADDLE, AND FITTINGS SHALL BE PRIMED AND WRAPPED FOR CORROSION PROTECTION AS DESCRIBED IN THE SPECIFICATIONS.
5. DISCHARGE FROM TYPE "A" BLOWOFFS SHALL BE DIRECTED DOWN SLOPE ON TO STONE SLOPE PROTECTION OR DIRECTED INTO DRAINAGE STRUCTURES, SUCH AS CULVERTS OR DROP INLETS, ALL AS SHOWN ON THE PLANS OR AS DIRECTED.
6. PLACE STONE SLOPE PROTECTION OF NO.2 BACKING ROCK PER CALTRANS SEC. 72, ON ALL CUT SLOPES SURROUNDING BLOWOFF VALVE ASSEMBLIES, AS DIRECTED.
7. A GUIDE MARKER SHALL BE FURNISHED AND INSTALLED AS DIRECTED. REFER TO DRAWING NID SD9.
8. REFER TO DRAWING NID SD1 FOR TRENCH DETAILS.
9. LOCATE VALVE AND RISER SO AS NOT TO INTERFERE WITH ROADSIDE DRAINAGE OR OTHER STRUCTURES.

BOARD REVIEW: 3-10-10 SD NUMBER REVISED 6-27-14

2" BLOWOFF ASSEMBLY - TYPE A & B

NOT TO SCALE

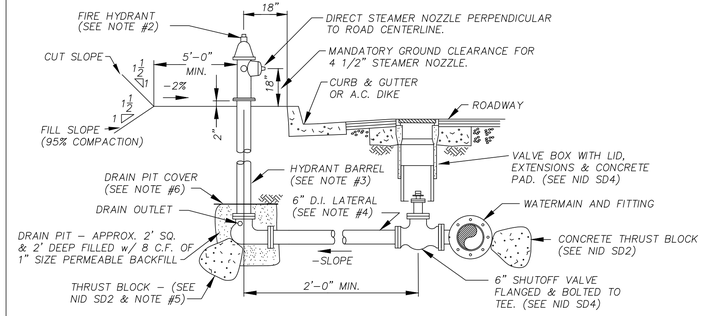
NID SD6



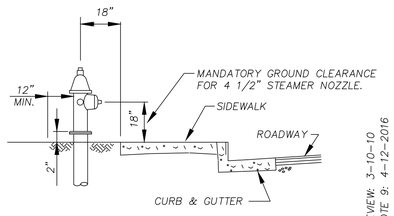
FIRE HYDRANT PAD CUT OR FILL

NOTES:

1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO "FIRE HYDRANT ASSEMBLIES" IN THE SPECIFICATIONS.
2. FIRE HYDRANTS SHALL BE AWWA C502 HAVING ONE 4½" STEAMER NOZZLE AND TWO 2½" HOSE NOZZLES WITH 250 psi RATING. THE HYDRANT MAIN VALVE OPENING SHALL BE 5¼". FIRE HYDRANTS SHALL BE ONE OF THE FOLLOWING MODELS:
   CLOW F-2545 (MEDALLION)
   M & H 929 (RELIANT)
   MUELLER SUPER CENTURION 250
   WATEROUS PACER WB-67-250
3. FIRE HYDRANT BARRELS SHALL BE EXTENDED WHERE UNAVOIDABLE IN ORDER TO MAKE PROPER GRADE. STACKING EXTENSIONS (USING MORE THAN ONE) WILL NOT BE ALLOWED.
4. FIRE HYDRANT LATERALS SHALL BE DUCTILE IRON WITH FLANGED JOINTS, RESTRAINED MECHANICAL JOINTS, OR RESTRAINED JOINTS AS REQUIRED FOR "WATER MAINS" IN THE DISTRICT'S STANDARD SPECIFICATIONS. THE LATERAL SHALL BE PROVIDED WITH POSITIVE RESTRAINT BETWEEN THE SHUTOFF VALVE AND THE FIRE HYDRANT. REFER TO DRAWING NID SD1 FOR TRENCH DETAILS.
5. WHEN POURING THE THRUST BLOCK, CARE SHALL BE TAKEN NOT TO ALLOW CONCRETE TO PLUG OR INTERFERE WITH THE HYDRANT DRAIN HOLES.
6. THE PERMEABLE BACKFILL PLACED IN THE DRAIN PIT SHALL BE COMPLETELY COVERED WITH A LAYER OF 15# FELT ROOFING PAPER OR 6 MIL POLYETHYLENE FILM.
7. THE FIRE HYDRANT PAD SHALL BE CONSTRUCTED IN ACCORDANCE WITH CALTRANS SECTION 19 "EARTHWORK" AND COMPACTED TO 95% RELATIVE COMPACTION. PAD REQUIREMENTS SHALL APPLY TO ALL FIRE HYDRANT LOCATIONS.
8. JUTE NETTING AND SEEDING ON SLOPED AREAS.
9. FIRE HYDRANT TO BE PAINTED WITH ENAMEL PAINT IN "OSHA YELLOW" ON ALL ITEMS ABOVE THE GROUND AND CONFIRMING ALL FITTINGS WILL WORK AFTER PAINTING.



TYPICAL FIRE HYDRANT ASSEMBLY



TYPICAL SIDEWALK FIRE HYDRANT LOCATION

BOARD REVIEW: 3-10-10
ADDED NOTE 9: 4-12-2016

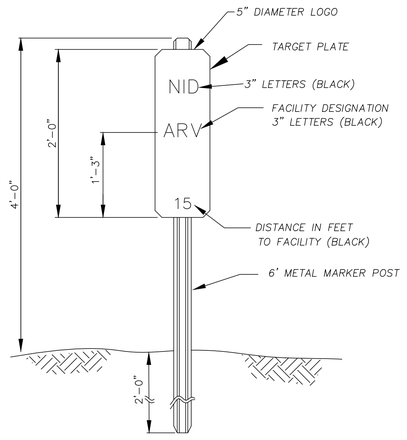
FIRE HYDRANT ASSEMBLY

NOT TO SCALE

NID SD8

FACILITY DESIGNATION

MAINLINE VALVE	V
AIR RELEASE VALVE	ARV
BLOWOFF	BO
PRESSURE REDUCING STATION	PRS
PRIVATE FIRE SERVICE	PFS
RECORDING STATION	RS
WATER MAIN LOCATION	WM
METER	M



GUIDE MARKER DETAIL

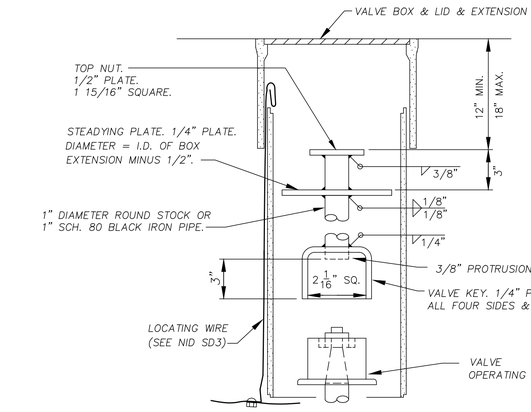
NOTES:

GUIDE MARKER

1. ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO THE SPECIFICATIONS.
2. GUIDE MARKERS SHALL BE FURNISHED AND INSTALLED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE DISTRICT ENGINEER.
3. POSTS SHALL BE TYPE 'M' AND SHALL CONFORM TO CALTRANS SECTION 82.
4. ALL NUMBERS AND LETTERS SHALL BE BLOCK STYLE AND STENCILED IN BLACK ON A WHITE BACKGROUND. DISTRICT WILL APPLY DISTANCE IN FEET.

VALVE OPERATOR SHAFT EXTENSION

1. A VALVE OPERATOR EXTENSION SHAFT SHALL BE FURNISHED AND INSTALLED WITH ALL BURIED VALVES WHEN THE OPERATING NUT IS LOCATED MORE THAN 36" BELOW THE TOP OF THE VALVE BOX.
2. AFTER FABRICATION, COAT ENTIRE ASSEMBLY WITH TWO COATS OF ASPHALT VARNISH OR COAL TAR ENAMEL, BLACK IN COLOR.
3. THE TOP OF THE VALVE STEM SHALL BE PEENED SLIGHTLY TO SECURE THE 2" OPERATING NUT TO THE VALVE STEM.



VALVE OPERATOR SHAFT EXTENSION

BOARD REVIEW: 3-10-10 REVISED: 2-25-14

GUIDE MARKER & VALVE OPERATING SHAFT EXTENSION

NOT TO SCALE

NID SD9

INITIALS	REVISION	DATE	REV. NO.

N.I.D.

NEVADA IRRIGATION DISTRICT
NEVADA COUNTY -- PLACER COUNTY
GRASS VALLEY
CALIFORNIA

BERGGREN LANE PRV
STANDARD DETAILS

RECOMMENDED BY:

DESIGNED: DOUGLAS HOBBS	DATE: 4/9/21	JOB NO. 2370	
DRAWN: LORELEI HAMMER	DATE: 4/9/21	SERIAL NO. 5580	
CHECKED: STU UCHIDA	DATE: 4/9/21	SHEET NO. 7 of 8	

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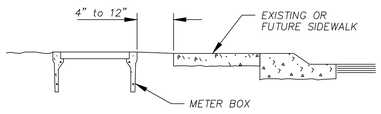
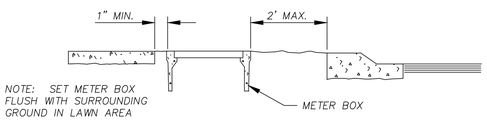


SIDEWALK INSTALLATION

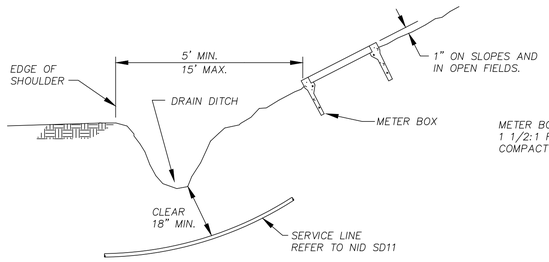
NOTES:

1. ALL MATERIALS AND INSTALLATION SHALL COMPLY WITH SERVICE ASSEMBLIES IN THE SPECIFICATIONS.
2. METER BOXES SHALL BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED.
3. A COMPACTED METER BOX PAD SHALL BE FURNISHED FOR ALL AREAS WHERE THE GROUND SLOPES DOWNWARD AWAY FROM THE ROAD AT A SLOPE GREATER THAN 4:1.
4. CUT SLOPE AND FILL SLOPE INSTALLATIONS SHALL ALSO BE USED IN COMBINATION WITH SIDEWALK AND CURB INSTALLATIONS IF NECESSARY.
5. REFER TO NID SD11 FOR ADDITIONAL ASSEMBLY REQUIREMENTS.
6. METER BOX LOCATIONS SHOWN ARE FOR NON-TRAFFIC AREAS ONLY.

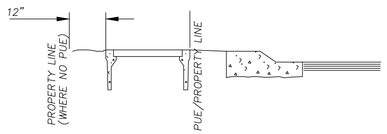


NOTE: SET METER BOX FLUSH WITH SURROUNDING GROUND IN LAWN AREA

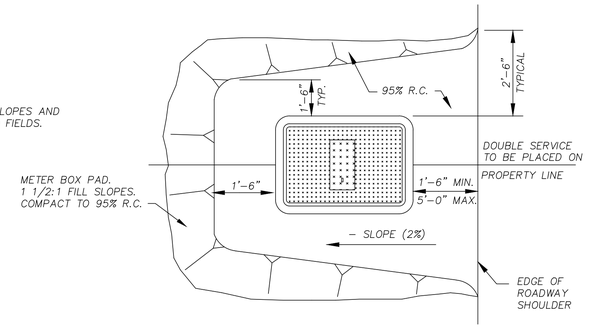
CURB OR UTILITY STRIP INSTALLATION



CUT SLOPE INSTALLATION



PUE'S AND PROPERTY LINES



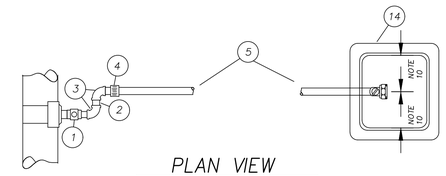
METER BOX PAD

BOARD REVIEW: 3-10-10

METER BOX LOCATION

NOT TO SCALE

NID SD10

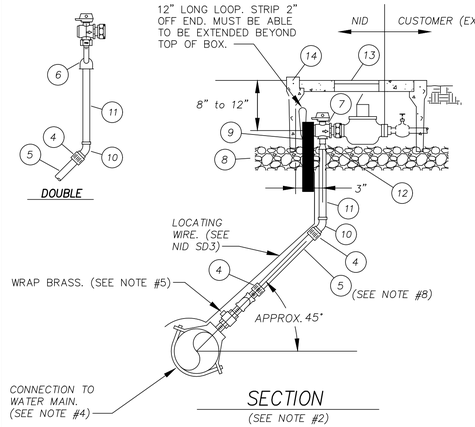


PLAN VIEW

NOTES:

1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO "SERVICE ASSEMBLIES" IN THE SPECIFICATIONS.
2. METER ASSEMBLIES SHOWN ARE FOR NON-TRAFFIC AREAS ONLY. ASSEMBLIES LOCATED IN TRAFFIC AREAS SHALL USE BOXES, LIDS, AND SLABS ALL RATED FOR AN H20 LOADING AND CONFORMING TO THE SPECIFICATIONS AND SHALL BE FLUSH W/GRADE.
3. THE LOCATION OF METER BOXES SHALL BE AS SHOWN ON THE PLANS AND PER NID SD10.
4. THE CONNECTION TO THE WATERMAIN SHALL CONFORM TO "WATERMAIN TAPS" IN THE SPECIFICATIONS.
   D.I. PIPE: ROMAC STYLE 202, FORD STYLE F202 OR APPROVED EQUAL
   PVC PIPE: ROMAC STYLE 202S OR 202N, FORD STYLE FS202 OR FC202 OR APPROVED EQUAL
5. THE SADDLE, BRASS COUPLINGS, PIPE AND FITTINGS SHALL BE PRIMED AND WRAPPED FOR CORROSION PROTECTION AS DESCRIBED IN THE SPECIFICATIONS.
6. REFER TO DRAWINGS NID SD1 FOR TRENCH DETAILS AND NID SD3 FOR LOCATING WIRE DETAILS.
7. FORD AND CHRISTY CATALOG NUMBERS ARE GIVEN FOR COMPARISON PURPOSES. SUBSTITUTES CONFORMING TO THE SPECIFICATIONS MUST BE APPROVED BY THE DISTRICT ENGINEER.
8. SERVICE LINES SHALL BE ONE CONTINUOUS PIECE OF PIPE. REMNANT PIECES JOINED BY COUPLINGS WILL NOT BE ALLOWED.
9. ALL METER VALVES SHALL BE SUPPLIED WITH LOCKING WINGS.
10. METERS TO BE PARALLEL AND LEVEL RELATIVE TO CENTERLINE OF METER BOX.

DOUBLE



SECTION
(SEE NOTE #2)

I.D. NO.	5/8", 3/4" & 1" METER ASSEMBLIES DESCRIPTION	SINGLE SIZE	SINGLE FORD CAT. NO.	DOUBLE SIZE	DOUBLE FORD CAT. NO.
1.	CORPORATION STOP – MIP x MIP	1.50	FB500-6	1.50	FB500-6
2.	BRASS NIPPLE THD.	1.50		1.50	
3.	BRASS ELBOW	1.50		1.50	
4.	MIP x IPS P.E. PACK JOINT w/ STIFFENER	1.50	C86-65	1.50	C86-66-IDR7
5.	PC200 (IDR7) POLYETHYLENE PIPE PE3608 (ONE PIECE)	1.50		1.50	
6.	1-1/2" FIP x (TWO) 1" MIP "U" BRANCH w/ 9" SPACING	N/A		1.5x1	U18-64-9
7.	ANGLE BALL VALVE (FIP x METER SWIVEL NUT) 1/	1.00	BA13-444W-NL	1.00	BA13-444W-NL
8.	6" COMPACTED AGG BASE				
9.	TEMPORARY 2" x 4" STAKE FOR VERTICAL AND SPACING				
10.	BRASS 45° ELBOW	1.50		1.50	
11.	BRASS SPOOL	1.50		1.50	
12.	1 1/2" x 1" BELL REDUCER AND 1" CLOSE NIPPLE				
	5/8" & 3/4" METER ASSEMBLIES	SINGLE		DOUBLE	
13.	ARMORCAST #A6000489T-H10/#A6000491T-H10H10	H10-11" x 21"		H10H10-18" x 19"	
14.	CHRISTY METER BOX	B16		B24 2/	
	1" METER ASSEMBLIES	SINGLE		DOUBLE	
13.	CHRISTY LID w/ READING LID	B30G w/5" x8"		B40M w/10" x16"	
14.	CHRISTY METER BOX	B30		B40 2/	

1/ SET METER VALVES PARALLEL TO METER BOX CENTERLINE.

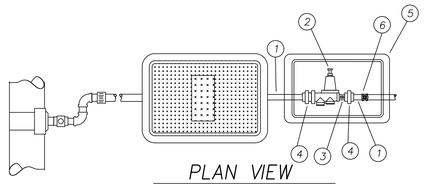
2/ SET BOX SO THAT LONG DIMENSION OF READING LID SETS PERPENDICULAR TO METERS.

BOARD REVIEW: 3-10-10 REVISED 4-16-18

5/8", 3/4" & 1" METER ASSEMBLY – SINGLE & DOUBLE

NOT TO SCALE

NID SD11



PLAN VIEW

NOTES:

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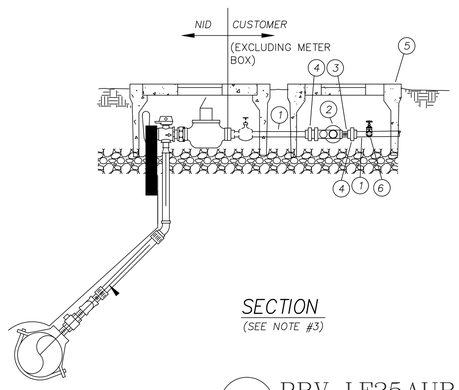
3. THE LOCATION OF METER BOXES SHALL BE SHOWN ON THE PLANS AND PER NID SD10.
4. FORD AND CHRISTY CATALOG NUMBERS ARE GIVEN FOR COMPARISON PURPOSES. SUBSTITUTUES CONFORMING TO THE SPECIFICATIONS MUST BE APPROVED BY THE DISTRICT ENGINEER.
5. INSTALL PRESSURE REDUCING VALVES HORIZONTALLY SO CLEANOUT SCREEN IS ACCESSIBLE ON SIDE.
6. SET PRESSURE REDUCING VALVE TO THE LOWER: PRE-CONSTRUCTION PRESSURE OR 70 PSI MAXIMUM.
7. USE SEPARATE PRV BOXES FOR DOUBLE SERVICE.



SECTION
(SEE NOTE #3)

I.D. NO.	3/4" METER ASSEMBLIES WITH PRV DESCRIPTION	SINGLE SIZE	SINGLE FORD CAT. NO.
1.	BRASS SPOOL	3/4"	
2.	PRESSURE REDUCING VALVE WATTS LF25AUB-Z3.	3/4"	
3.	BRASS NIPPLE THREAD	3/4"	
4.	UNION ADAPTOR	3/4"	
5.	CARSON 1012 OR EQUIVALENT		1012
6.	VALVE	3/4"	

5 PRV LF25AUB-Z3
NOT TO SCALE

3/4" SINGLE METER WITH PRV LF25AUB-Z3

NOT TO SCALE

F:\ENGINEERING\DRAFTING\CIVIL 3D PROJECTS\2370-BERGGREN\PRV\2370-STANDARD DETAILS

INITIALS	REVISION	DATE	REV. NO.

N.I.D.

NEVADA IRRIGATION DISTRICT
NEVADA COUNTY -- PLACER COUNTY
GRASS VALLEY
CALIFORNIA

BERGGREN LANE PRV
STANDARD DETAILS & PRV LF25AUF-Z3 DETAIL

RECOMMENDED BY:

DESIGNED: DOUGLAS HOBBS	DATE: 4/9/21	JOB NO.	2370
DRAWN: LORELEI HAMMER	DATE: 4/9/21	SERIAL NO.	5580
CHECKED: STU UCHIDA	DATE: 4/9/21	SHEET NO.	8 of 8