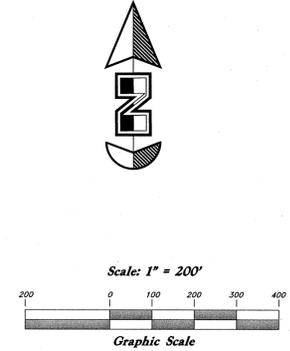


Sheet 3



Legend

- (Note: All items may not appear on drawing)
- San. Sewer Manhole
 - Water Manhole
 - Storm Drain Manhole
 - Electrical Manhole
 - Catch Basins
 - Exist. Fire Hydrant
 - Fire Hydrant
 - Exist. Water Valve
 - Water Valve
 - Sanitary Sewer
 - Culinary Water
 - Gas Line
 - Irrigation Line
 - Storm Drain
 - Telephone Line
 - Secondary Waterline
 - Power Line
 - Fire Line
 - Land Drain
 - Power pole
 - Power pole w/guy
 - Light Pole
 - Fence
 - Flowline of ditch
 - Overhead Power line
 - Corrugated Metal Pipe
 - Concrete Pipe
 - Reinforced Concrete Pipe
 - Ductile Iron
 - Polyvinyl Chloride
 - Top of Asphalt
 - Edge of Asphalt
 - Centerline
 - Flowline
 - Finish Floor
 - Top of Curb
 - Top of Wall
 - Top of Walk
 - Top of Concrete
 - Natural Ground
 - Finish Contour
 - Exist. Contour
 - Exist. Grade
 - Exist. Grade
 - Ridge Line
 - Direction of Flow
 - Existing Asphalt
 - New Asphalt
 - Heavy Duty Asphalt
 - Concrete
 - Open Face
 - Curb & Gutter

REV	DATE	DESCRIPTION

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Key Map

The Chalets at Ski Lake No. 6

A part of the Southwest 1/4 of Section 13, a part of the Northeast 1/4 of Section 23, and a part of the Northwest 1/4 of Section 24, T6N, R1E, SLB&M, U.S. Survey

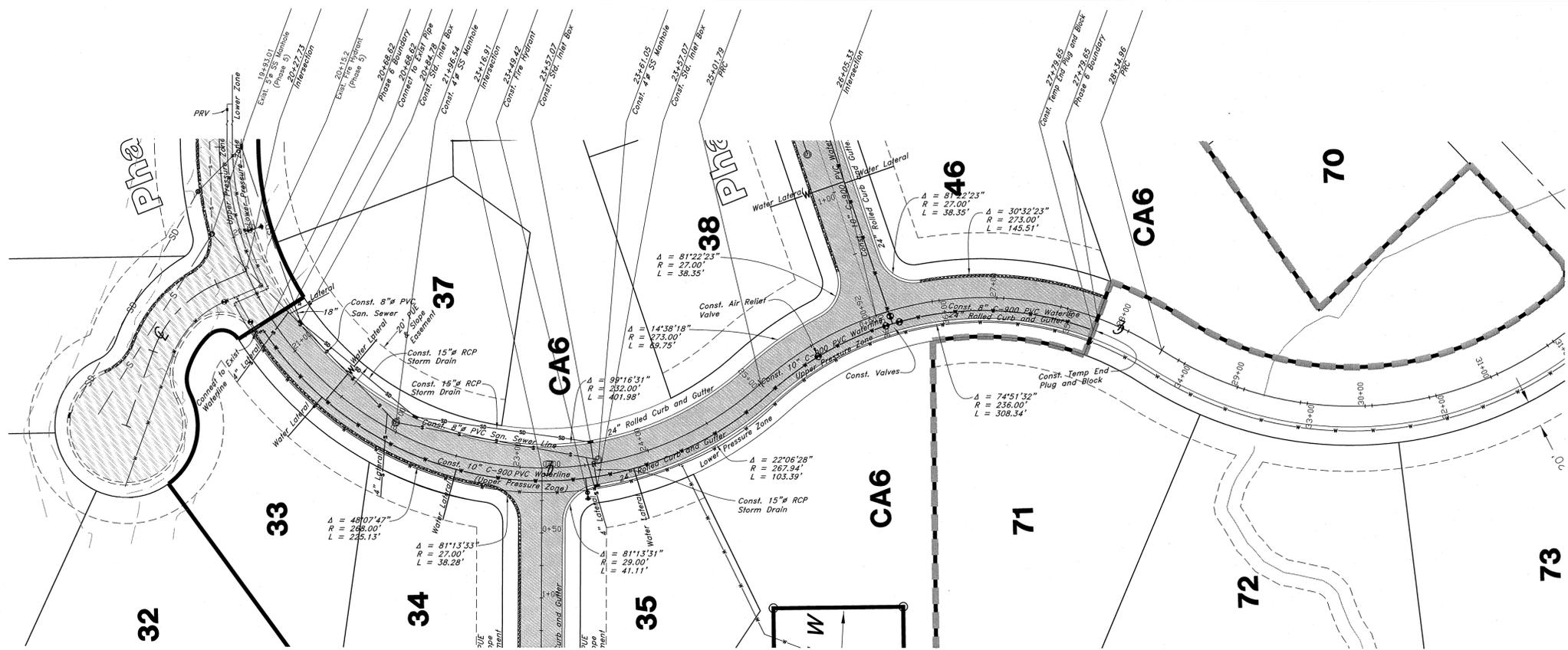


Jan, 2012

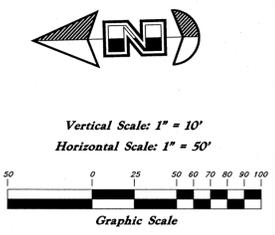
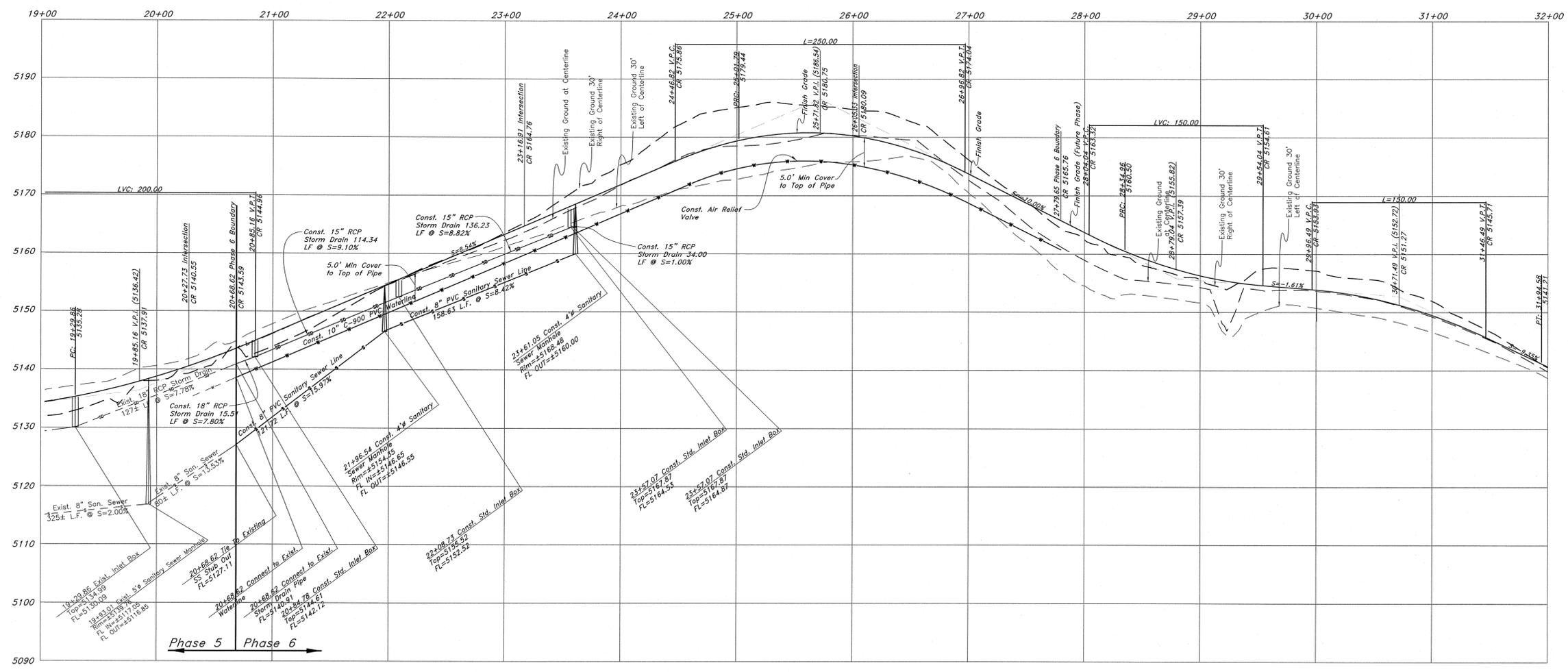
SHEET NO.

KM

96N120 Waterline



Quail Lane



Legend

- (Note: All items may not appear on drawing)
- San. Sewer Manhole
 - Water Manhole
 - Storm Drain Manhole
 - Electrical Manhole
 - Catch Basins
 - Exist. Fire Hydrant
 - Fire Hydrant
 - Exist. Water Valve
 - Water Valve
 - Sanitary Sewer
 - Culinary Water
 - Gas Line
 - Irrigation Line
 - Storm Drain
 - Telephone Line
 - Secondary Waterline
 - Power Line
 - Fire Line
 - Line Drain
 - Power Pole
 - Power Pole w/guy
 - Light Pole
 - Fence
 - Flowline of ditch
 - Overhead Power line
 - Corrugated Metal Pipe
 - Concrete Pipe
 - CP
 - CP
 - CP
 - CP
 - PVC
 - DI
 - TA
 - EA
 - CL
 - FL
 - FF
 - FF
 - TWL
 - TW
 - TC
 - NG
 - NG
 - 90
 - 90
 - 95.33TA
 - 95.72TA
 - R
 - R
 - Direction of Flow
 - Existing Asphalt
 - New Asphalt
 - Heavy Duty Asphalt
 - Concrete
 - Open Face
 - Curb & Gutter

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Plan / Profile (Utility)

The Chalets at Ski Lake No. 6

A part of the Southwest 1/4 of Section 13, a part of the Northeast
 1/4 of Section 23, and a part of the Northwest 1/4 of Section 24,

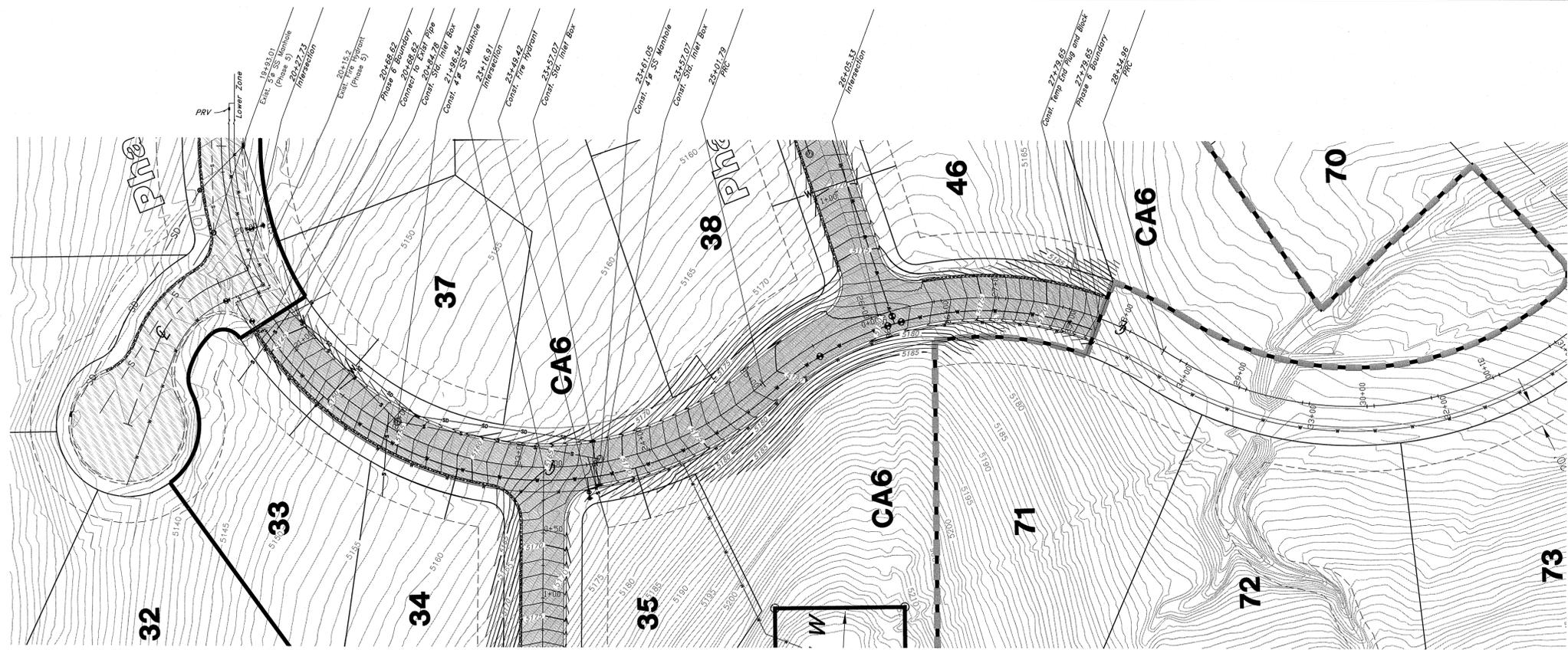


Jan, 2012

SHEET NO.

1

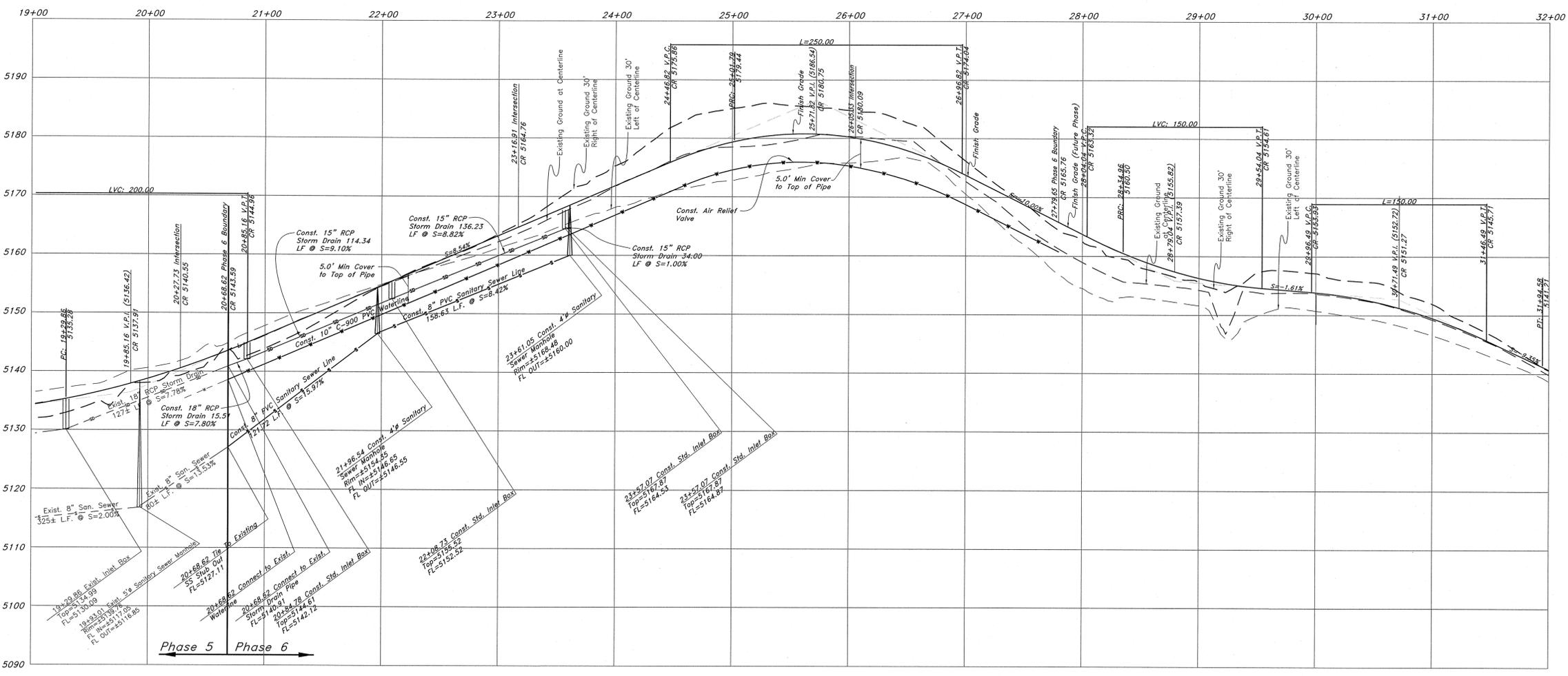
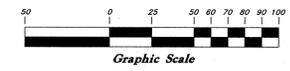
96N120 Waterline



Benchmark: Monument at
Intersection of Quail Lane and
Meadow Lark Lane
Elevation: 5022.34



Vertical Scale: 1" = 10'
Horizontal Scale: 1" = 50'



Legend

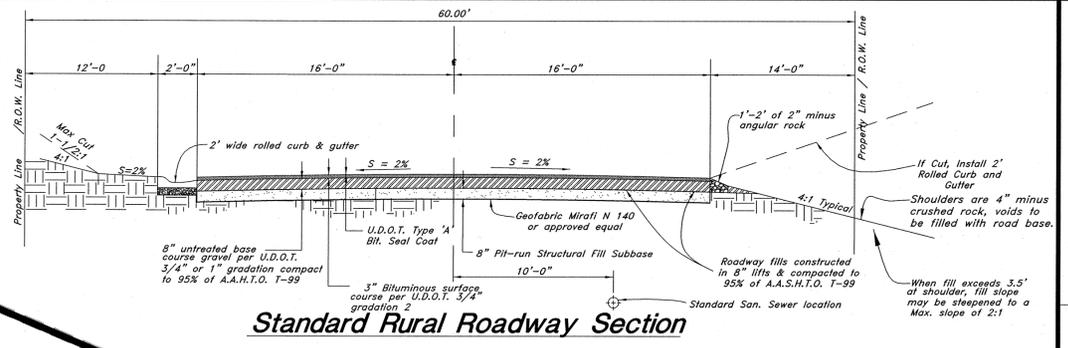
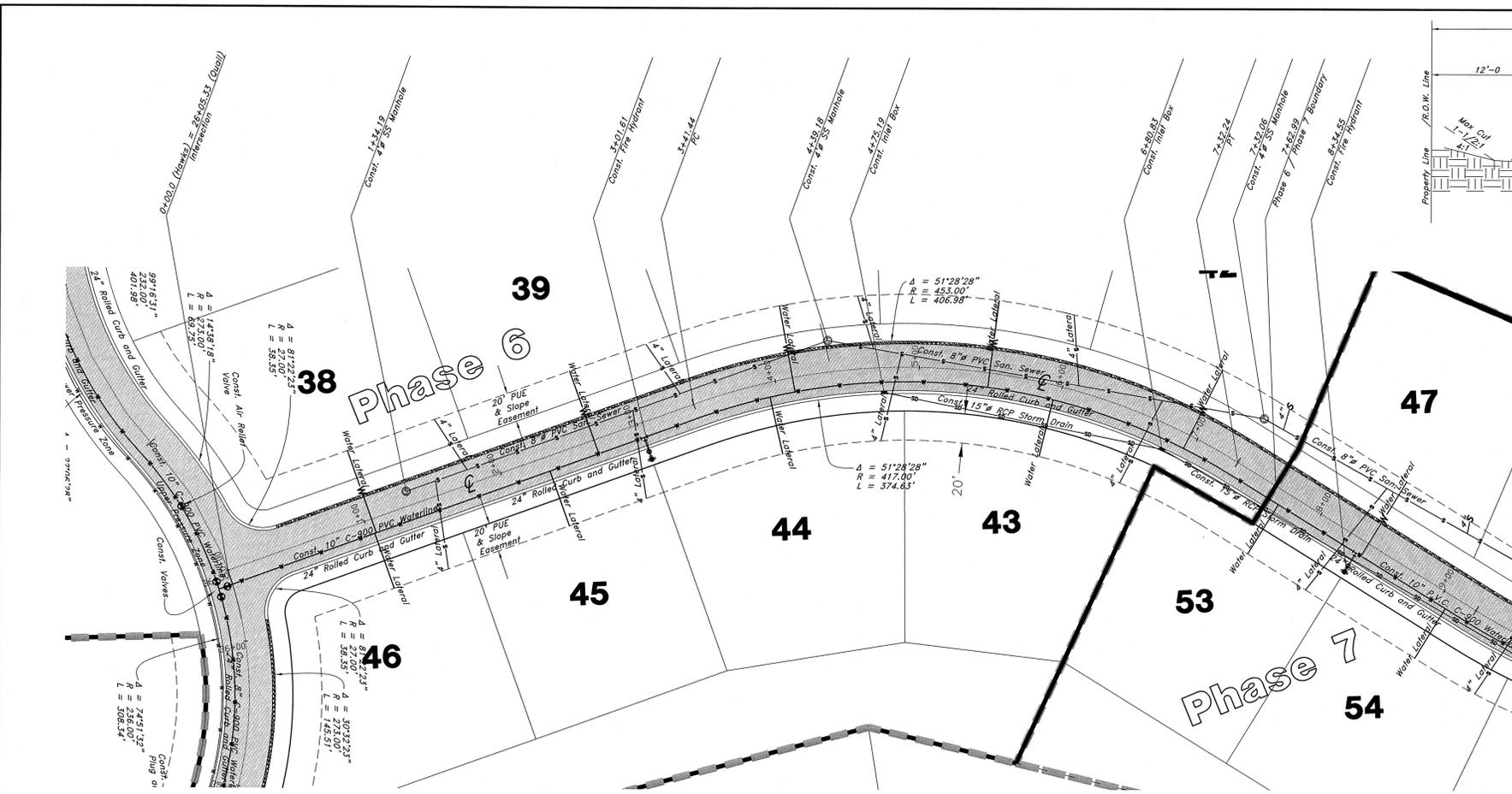
- (Note: All items may not appear on drawing)
- San. Sewer Manhole
 - Water Manhole
 - Storm Drain Manhole
 - Electrical Manhole
 - Catch Basins
 - Exist. Fire Hydrant
 - Fire Hydrant
 - Exist. Water Valve
 - Water Valve
 - Sanitary Sewer
 - Gas Line
 - Irrigation Line
 - Storm Drain
 - Telephone Line
 - Power Line
 - Fire Line
 - Land Drain
 - Power pole
 - Power pole w/guy
 - Light Pole
 - Fence
 - Flowline of ditch
 - Overhead Power line
 - Corrugated Metal Pipe
 - Concrete Pipe
 - Reinforced Concrete Pipe
 - Ductile Iron
 - Polyvinyl Chloride
 - Top of Asphalt
 - Edge of Asphalt
 - Centerline
 - Flowline
 - Finish Floor
 - Top of Curb
 - Top of Wall
 - Top of Walk
 - Top of Concrete
 - Natural Ground
 - Finish Contour
 - Exist. Contour
 - Exist. Grade
 - Ridge Line
 - Direction of Flow
 - Existing Asphalt
 - New Asphalt
 - Heavy Duty Asphalt
 - Concrete
 - Open Face
 - Curb & Gutter

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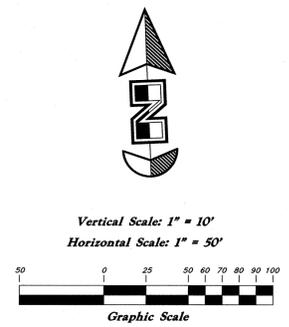
Plan / Profile (Grading)
The Chalets at Ski Lake No. 6
 A part of the Southwest 1/4 of Section 13, a part of the Northeast 1/4 of Section 24, 1/4 of Section 23, and a part of the Northwest 1/4 of Section 24,



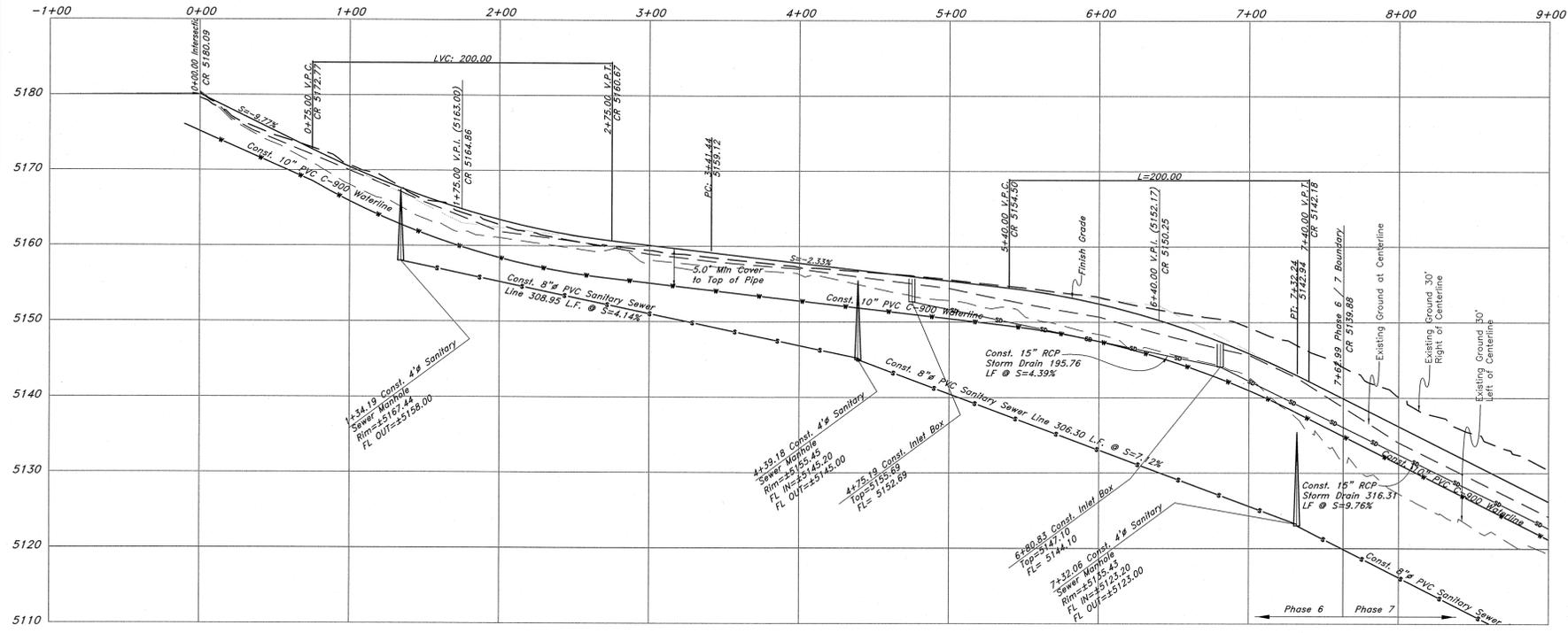
Jan, 2012
 SHEET NO.
1a
 96N120 Waterline



NOTE: TO PREVENT SOIL EROSION, PROTECT STEEP SLOPES WITH HYDROSEEDING OR EROSION CONTROL BLANKETS.



Hawks Lane



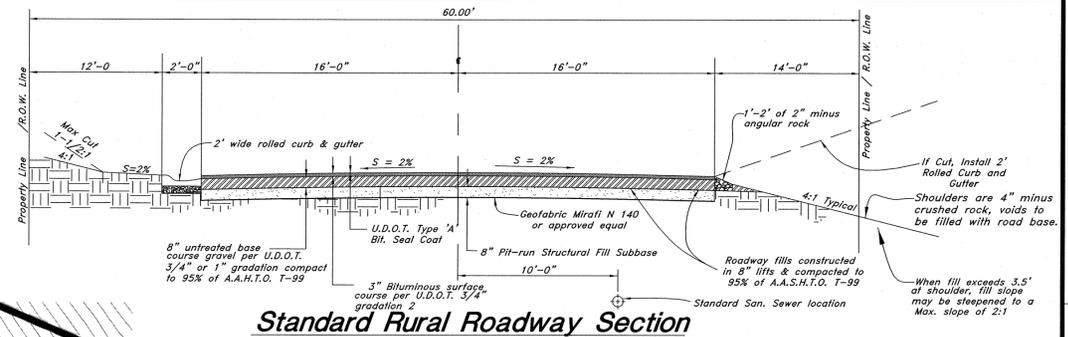
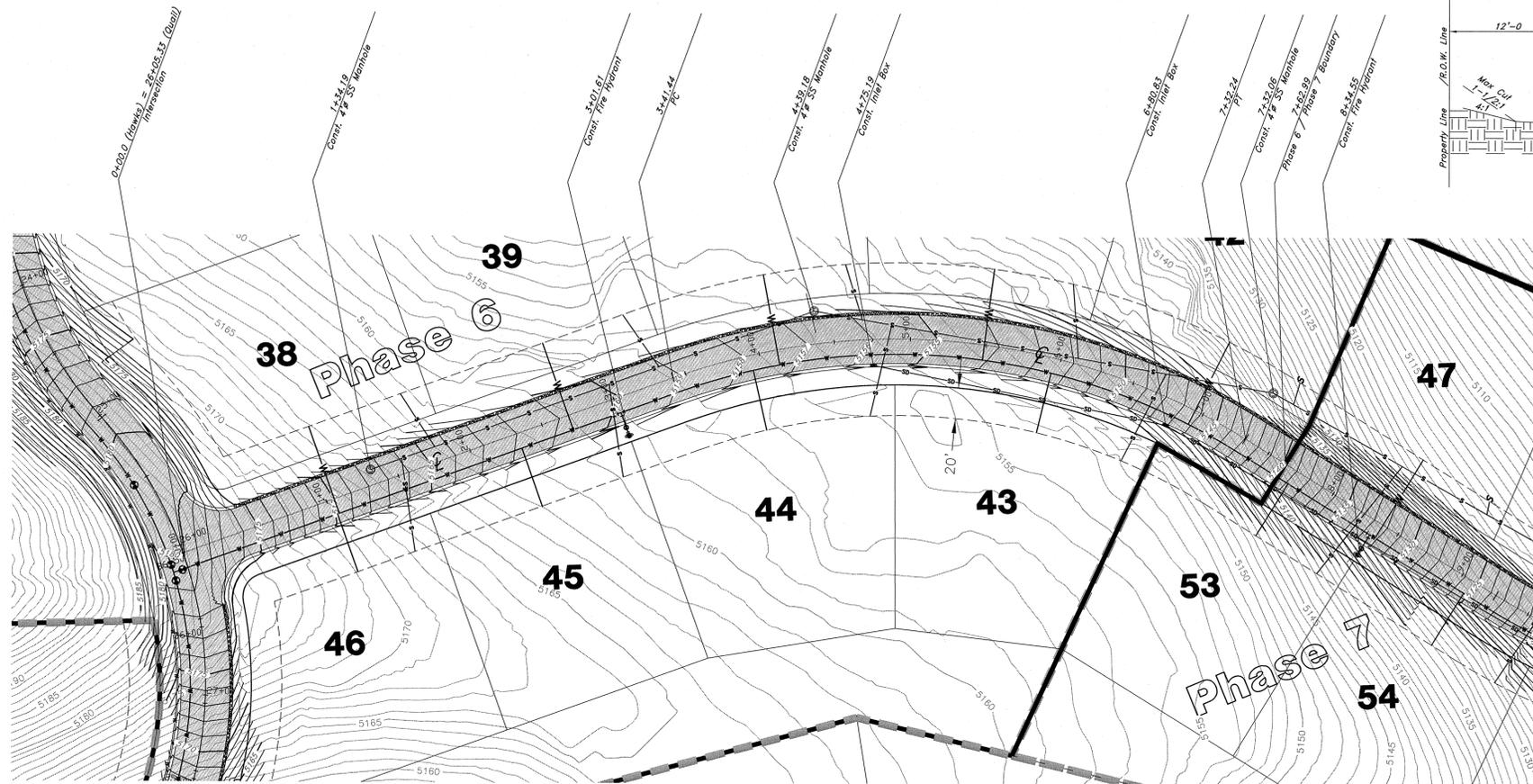
Legend

- San. Sewer Manhole
- Water Manhole
- Storm Drain Manhole
- Electrical Manhole
- Catch Basins
- Exist. Fire Hydrant
- Fire Hydrant
- Exist. Water Valve
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- Overhead Power line
- Corrugated Metal Pipe
- Concrete Pipe
- Reinforced Concrete Pipe
- Ductile Iron
- Polyvinyl Chloride
- Top of Asphalt
- TA
- EA
- CL
- Centerline
- Flowline
- Finish Floor
- FF
- Top of Curb
- TC
- Top of Wall
- TW
- Top of Walk
- Top of Concrete
- Natural Ground
- Finish Contour
- 90
- 95.337A
- 95.727A
- Exist. Grade
- Ridge Line
- Direction of Flow
- Existing Asphalt
- New Asphalt
- Heavy Duty Asphalt
- Concrete
- Open Face Curb & Gutter

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Plan / Profile (Utility)
The Chalets at Ski Lake No. 6
 A part of the Southwest 1/4 of Section 13, a part of the Northeast 1/4 of Section 24, 1/4 of Section 23, and a part of the Northwest 1/4 of Section 24, T6N, R1E, S16&M, U.S. Survey.

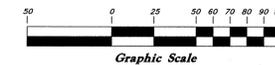




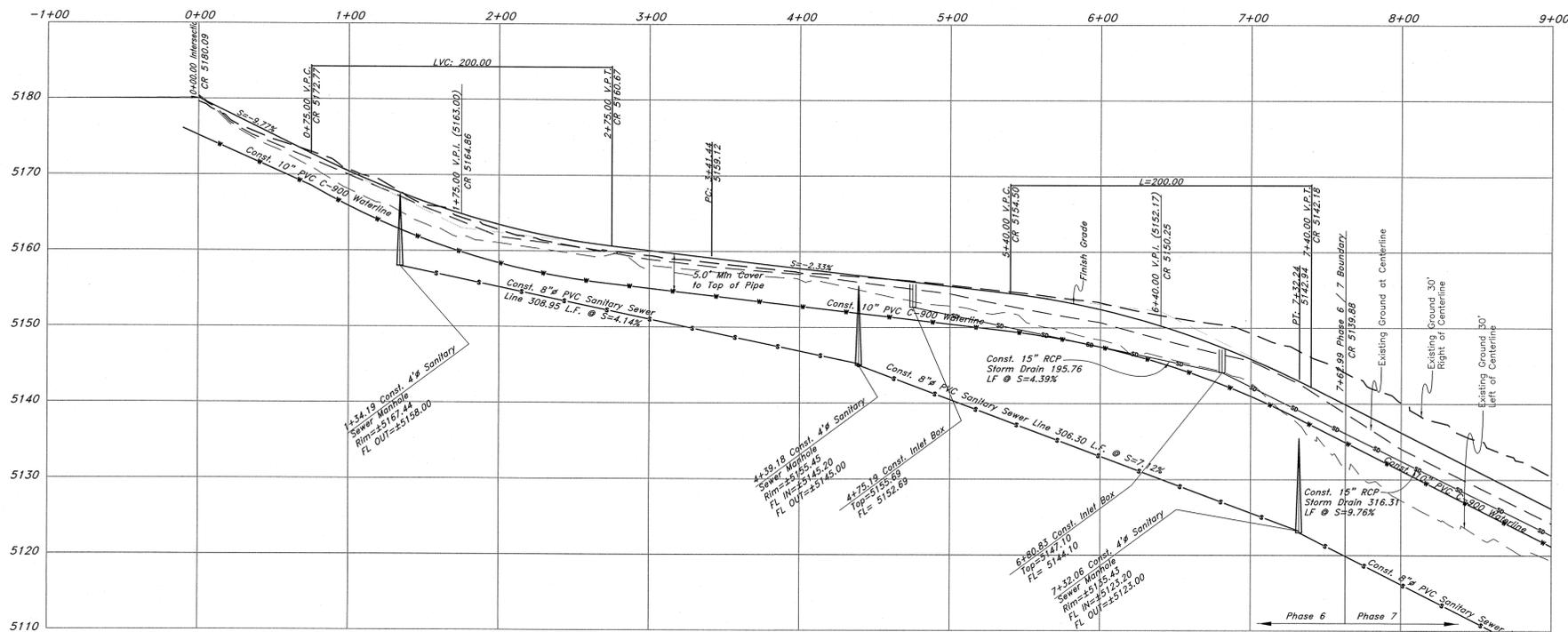
NOTE: TO PREVENT SOIL EROSION, PROTECT STEEP SLOPES WITH HYDROSEEDING OR EROSION CONTROL BLANKETS.



Vertical Scale: 1" = 10'
Horizontal Scale: 1" = 50'



Hawks Lane



Legend

- (Note: All Items may not appear on drawing)
- San. Sewer Manhole
 - Water Manhole
 - Storm Drain Manhole
 - Electrical Manhole
 - Catch Basins
 - Exist. Fire Hydrant
 - Fire Hydrant
 - Exist. Water Valve
 - Water Valve
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 - Concrete Pipe
 - Reinforced Concrete Pipe
 - Ductile Iron
 - Polyvinyl Chloride
 - Top of Asphalt
 - Edge of Asphalt
 - Centerline
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 - Finish Floor
 - Top of Curb
 - Top of Wall
 - Top of Walk
 - Top of Concrete
 - Natural Ground
 - Finish Contour
 - Exist. Contour
 - Finish Grade
 - Exist. Grade
 - Ridge Line
 - Direction of Flow
 - Existing Asphalt
 - New Asphalt
 - Heavy Duty Asphalt
 - Concrete
 - Open Face
 - Curb & Gutter

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Plan / Profile (Grading)

The Chalets at Ski Lake No. 6

A part of the Southwest 1/4 of Section 13, a part of the Northeast 1/4 of Section 23, and a part of the Northwest 1/4 of Section 24, T6N, R1E, SL&M, U.S. Survey

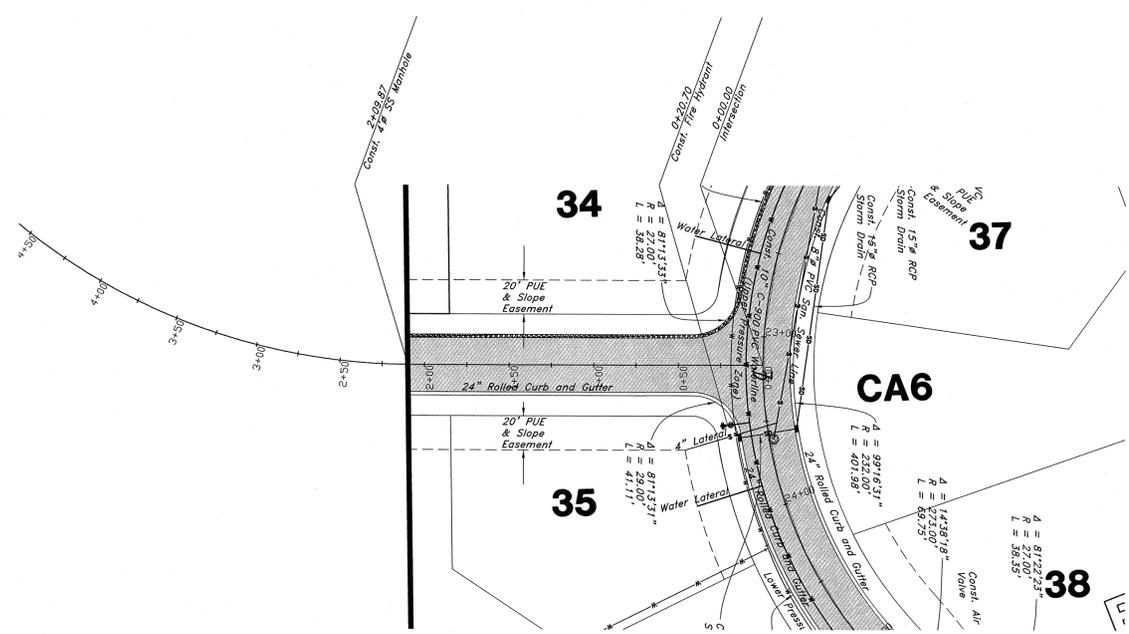


Jan, 2012

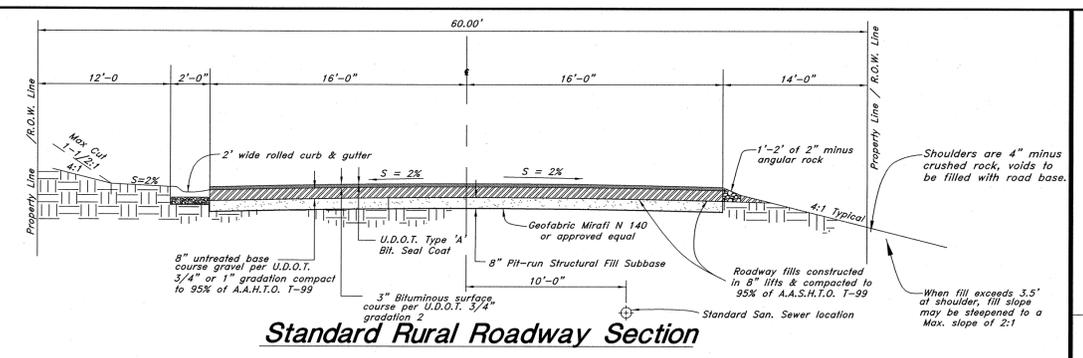
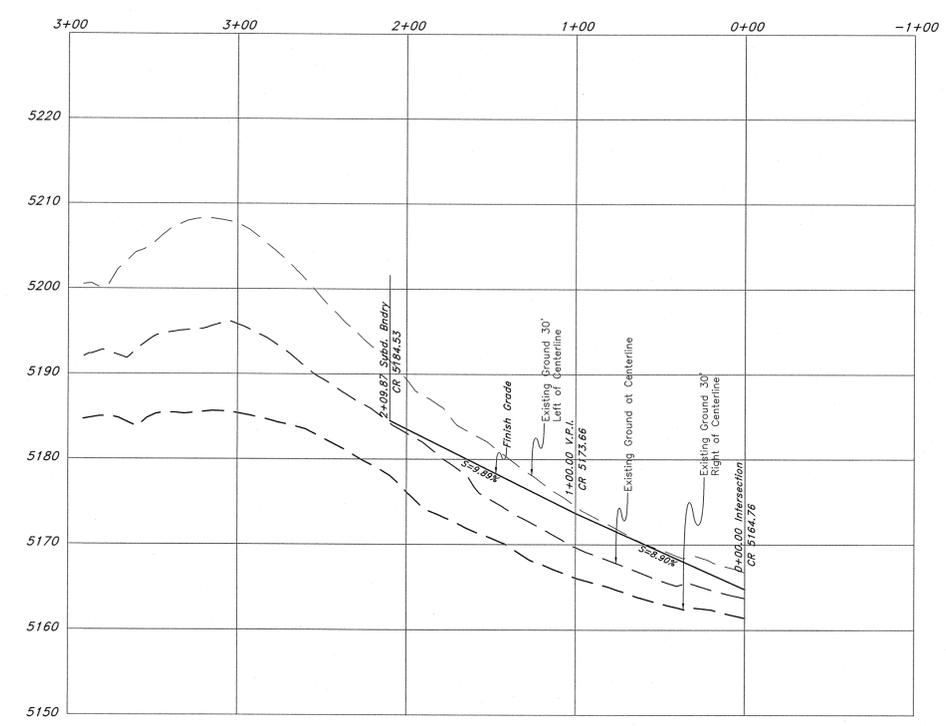
SHEET NO.

2a

96N120 Waterline



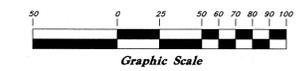
Knight Hawk Road



Standard Rural Roadway Section



Vertical Scale: 1" = 10'
Horizontal Scale: 1" = 50'



Legend

- (Note: All items may not appear on drawing)
- San. Sewer Manhole
 - Water Manhole
 - Storm Drain Manhole
 - Electrical Manhole
 - Catch Basins
 - Exist. Fire Hydrant
 - Fire Hydrant
 - Exist. Water Valve
 - Water Valve
 - Sanitary Sewer
 - Culinary Water
 - Gas Line
 - Irrigation Line
 - Storm Drain
 - Telephone Line
 - Secondary Waterline
 - Power Line
 - Fire Line
 - Land Drain
 - Power pole w/guy
 - Light Pole
 - Fence
 - Flowline of ditch
 - Overhead Power line
 - Corrugated Metal Pipe
 - Concrete Pipe
 - Reinforced Concrete Pipe
 - Ductile Iron
 - PVC
 - Polyvinyl Chloride
 - Top of Asphalt
 - EA
 - Edge of Asphalt
 - Centerline
 - Flowline
 - Finish Floor
 - Top of Curb
 - Top of Wall
 - Top of Walk
 - Top of Concrete
 - Natural Ground
 - Finish Contour
 - Exist. Contour
 - Finish Grade
 - Exist. Grade
 - Ridge Line
 - Direction of Flow
 - Existing Asphalt
 - New Asphalt
 - Heavy Duty Asphalt
 - Concrete
 - Open Face Curb & Gutter

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Plan / Profile (Utility)

The Chalets at Ski Lake No. 6

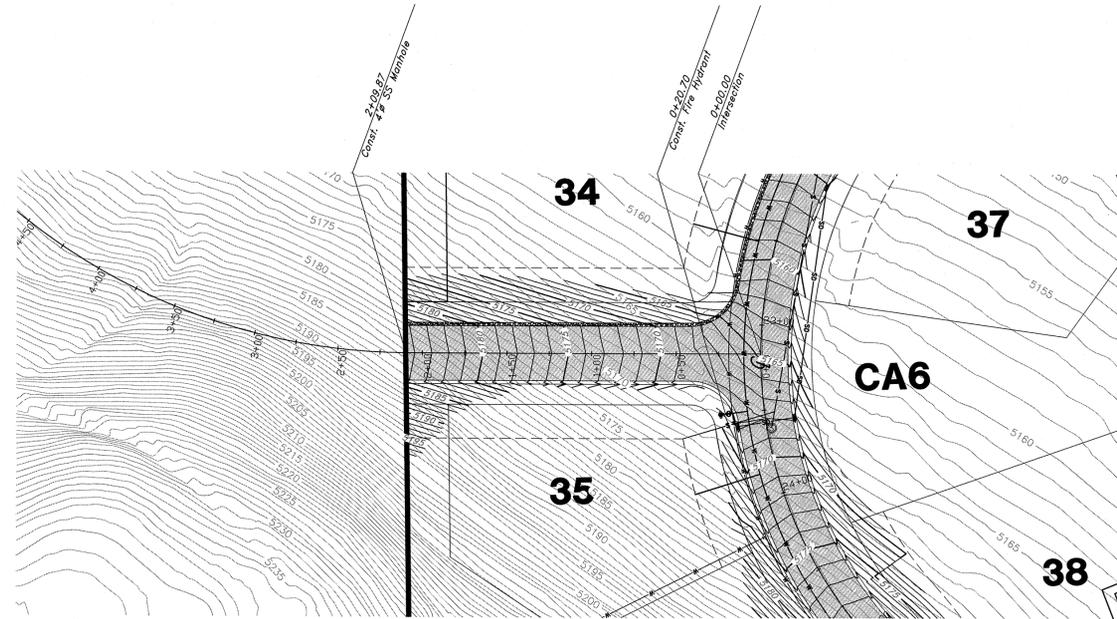
A part of the Southwest 1/4 of Section 13, a part of the Northeast 1/4 of Section 23, and a part of the Northwest 1/4 of Section 24, T6N, R1E, SL&M, U.S. Survey



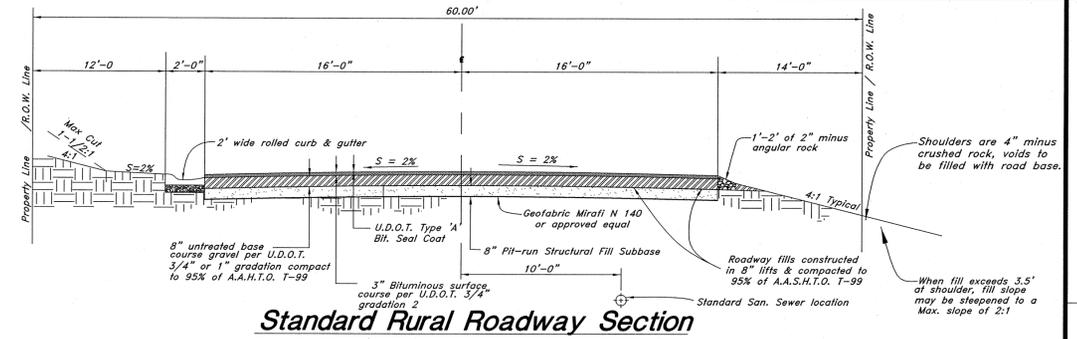
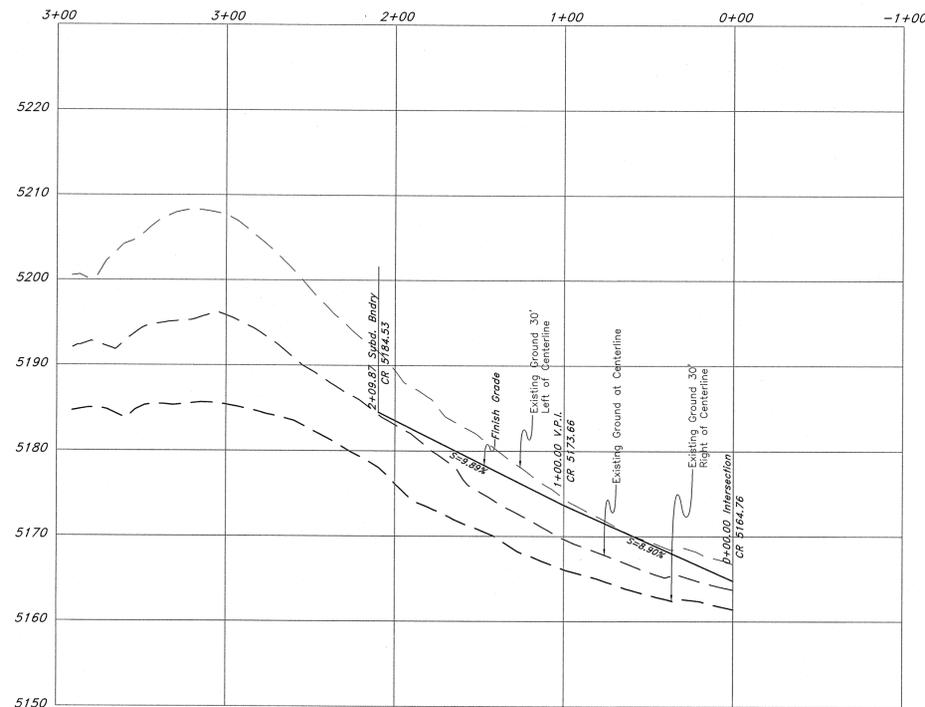
Jan, 2012

SHEET NO. **3**

96N120 Waterline



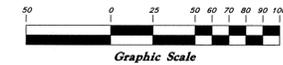
Knight Hawk Road



Standard Rural Roadway Section



Vertical Scale: 1" = 10'
Horizontal Scale: 1" = 50'



Legend

- (Note: All items may not appear on drawing)
- San Sewer Manhole
 - Water Manhole
 - Storm Drain Manhole
 - Electrical Manhole
 - Catch Basins
 - Exist. Fire Hydrant
 - Exist. Water Valve
 - Water Valve
 - Sanitary Sewer
 - Culinary Water
 - Gas Line
 - Irrigation Line
 - Storm Drain
 - Telephone Line
 - Secondary Waterline
 - Power Line
 - Fire Line
 - Land Drain
 - Power pole
 - Power pole w/guy
 - Light Pole
 - Fence
 - Flowline of ditch
 - Overhead Power line
 - Corrugated Metal Pipe
 - Concrete Pipe
 - Reinforced Concrete Pipe
 - Ductile Iron
 - Polyvinyl Chloride
 - Top of Asphalt
 - TA
 - EA
 - CL
 - FL
 - Centerline
 - Flowline
 - FF
 - Top of Curb
 - TC
 - Top of Wall
 - TW
 - Top of Concrete
 - TCN
 - Natural Ground
 - NG
 - Finish Contour
 - 90
 - Exist. Contour
 - 90
 - Finish Grade
 - 95.33TA
 - Exist. Grade
 - 95.72TA
 - Ridge Line
 - R
 - Direction of Flow
 - Existing Asphalt
 - New Asphalt
 - Heavy Duty Asphalt
 - Concrete
 - Open Face
 - Curb & Gutter

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Plan / Profile (Grading)

The Chalets at Ski Lake No. 6

A part of the Southwest 1/4 of Section 13, a part of the Northeast 1/4 of Section 25, and a part of the Northwest 1/4 of Section 24, T6N, R1E, S1E&M, U.S. Survey

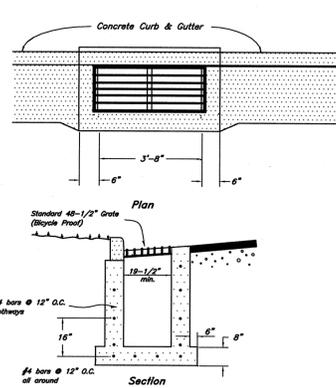


Jan, 2012

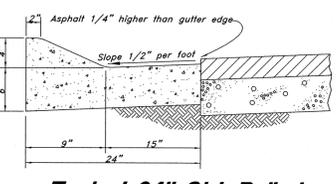
SHEET NO.

3a

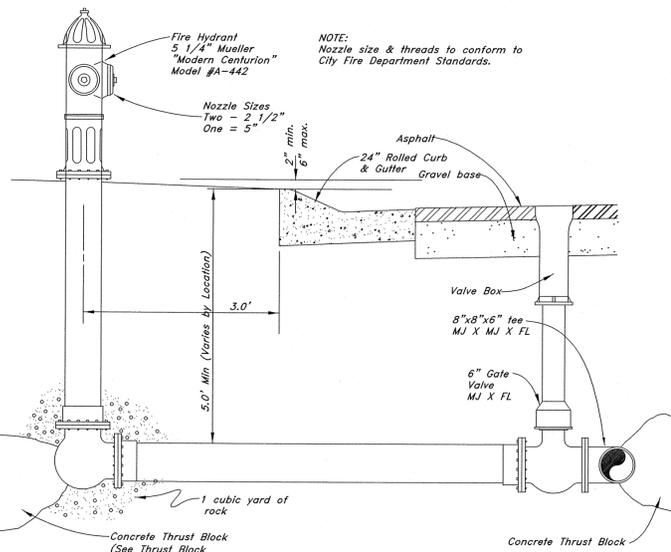
96N120 Waterline



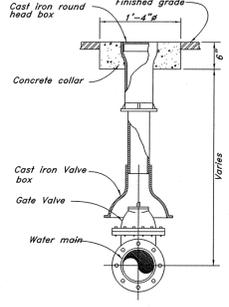
1 Typical Inlet Box
Not to Scale



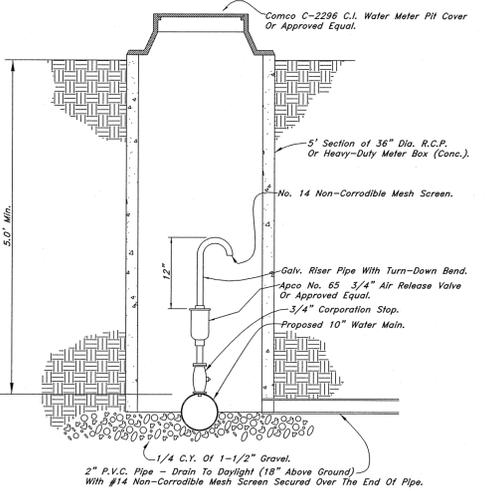
2 Typical 24" Std. Rolled Curb and Gutter
Not to Scale



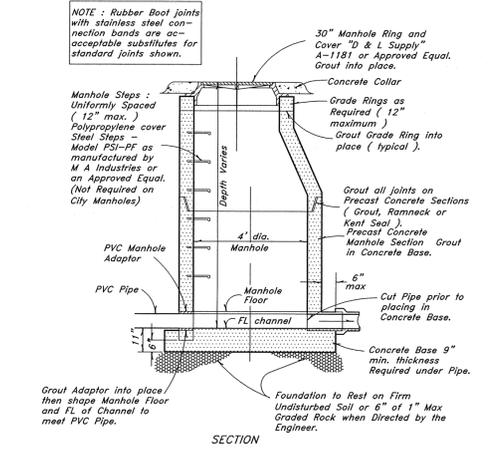
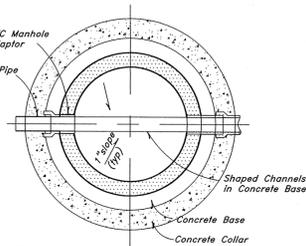
3 Typical Fire Hydrant & Valve Connection
Not to Scale



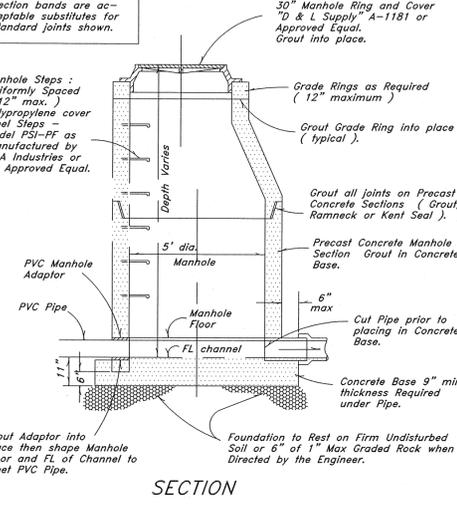
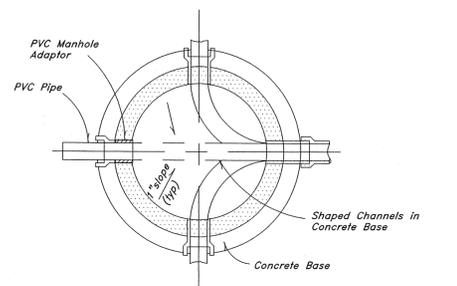
4 Typical Gate Valve
Not to Scale



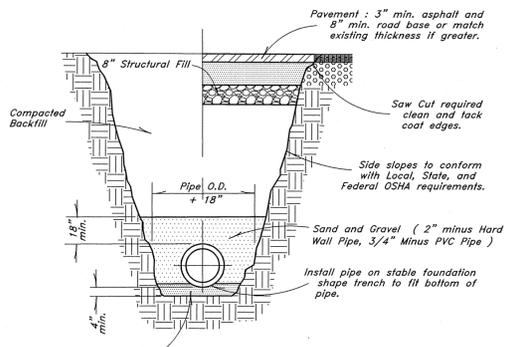
5 Air Release Detail
Not to Scale



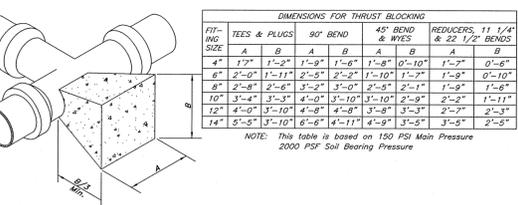
8 Typical 4.0' Manhole Detail
Not to Scale



9 Typical 5.0' Manhole Detail
Not to Scale



10 Typical Trench Detail
Not to Scale



11 Thrust Blocking Details
Not to Scale

DIMENSIONS FOR THRUST BLOCKING

FITTING SIZE	TEES & PLUGS		90° BEND		45° BEND & WYES		REDUCERS, 1 1/4" & 1 1/2" BENDS	
	A	B	A	B	A	B	A	B
4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
6"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
8"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"
10"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
12"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"
14"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"

NOTE: This table is based on 150 PSI Main Pressure
2000 PSI Soil Bearing Pressure

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Jan, 2012

SHEET NO. **4**

96N120 Waterline