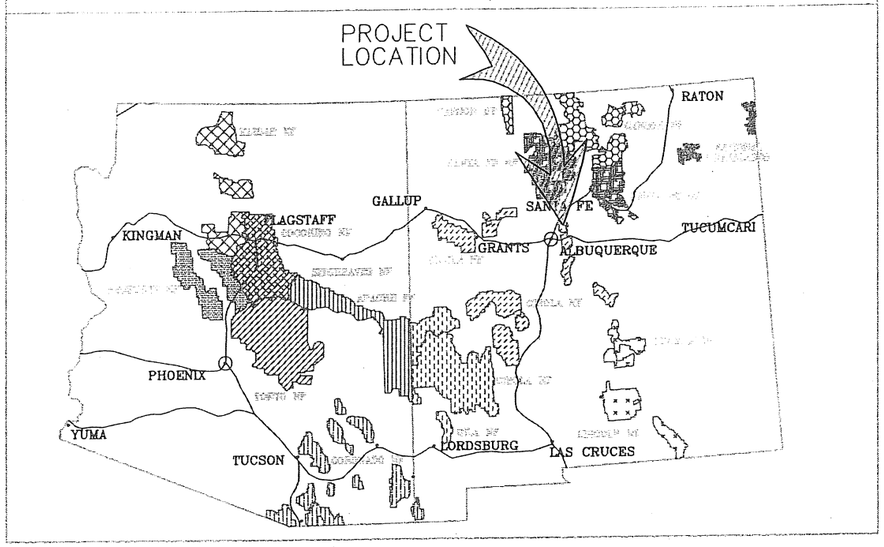
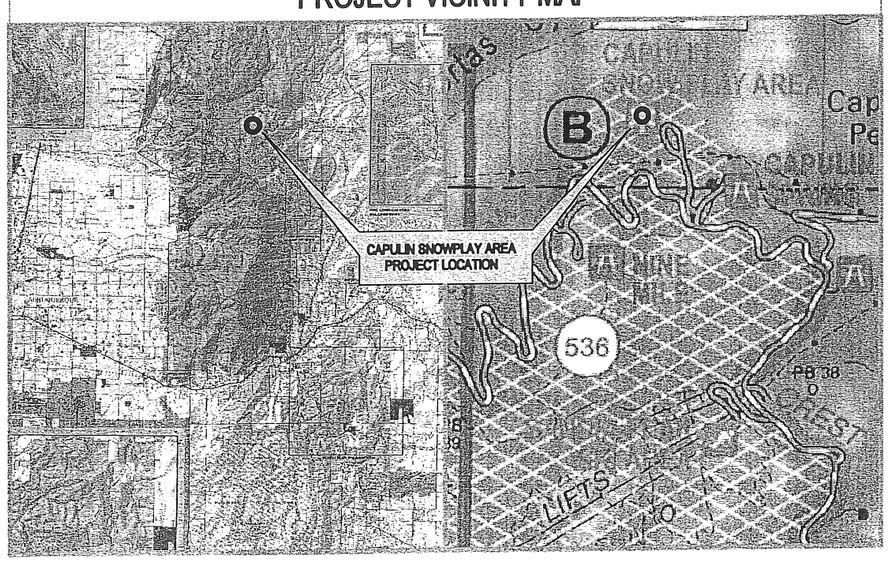
handrail design
Bulletin Board design
source

FOREST LOCATION MAP



PROJECT VICINITY MAP



UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

SOUTHWESTERN REGION
CIBOLA NATIONAL FOREST
SANDIA RANGER DISTRICT
BERNALILLO COUNTY, NEW MEXICO
CONSTRUCTION DRAWINGS

FOR

CAPULIN SNOW PLAY AREA IMPROVEMENTS

INDEX OF SHEETS

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WARMING SHELTER DETAILS - OPTIONAL ITEM	14 of 14

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R-3
SOUTHWESTERN REGION

Approved by :
Regional Engineer — Date
Recommended by :
Forest Supervisor — Date

Reviewed by :
Forest Engineer — Date
District Ranger — Date

Submitted by :
Project Engineer — Date
Project Technician — Date

Forest: CIBOLA NATIONAL FOREST
Project Name: CAPULIN SNOW PLAY AREA

Sheet Title: COVER SHEET AND INDEX OF SHEETS
Scale
Sheet 1 of 14

ESTIMATE OF QUANTITY

ITEM NUMBER	DESCRIPTION	METHOD OF MEASURE	UNIT	QUANTITY
151 - 01	MOBILIZATION	LUMP SUM	LUMP SUM	LUMP SUM
152 - 01	CONSTRUCTION SURVEY AND STAKING	LUMP SUM	LUMP SUM	LUMP SUM
157 - 02	SILT FENCE	ACTUAL QUANTITY	LINEAR FOOT	830
201 - 01	CLEARING AND GRUBBING	LUMP SUM	LUMP SUM	LUMP SUM
203 - 05	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM	LUMP SUM
204 - 01	UNCLASSIFIED EXCAVATION	DESIGN QUANTITY	CUBIC YARD	5,258
204 - 02	CONSERVED TOPSOIL EXCAVATION	DESIGN QUANTITY	CUBIC YARD	4,360
251 - 01	PLACED RIPRAP CLASS 1	DESIGN QUANTITY	CUBIC YARD	4 CY
404 - 01	MINOR HOT ASPHALT CONCRETE	ACTUAL QUANTITY	TON	650
412 - 02	TACK COAT GRADE MS	ACTUAL QUANTITY	GALLON	760
414 - 15	CRACK SEALANT	LUMP SUM	LUMP SUM	LUMP SUM
602 - 15	15" CORRUGATED STEEL PIPE DRAIN	DESIGN QUANTITY	LINEAR FOOT	210
604 - 01	MANHOLE	DESIGN QUANTITY	EACH	1
604 - 08	INLET	DESIGN QUANTITY	EACH	3
604 - 09	METAL FRAME AND GRATE	DESIGN QUANTITY	EACH	4
615 - 01	CONCRETE SIDEWALK	DESIGN QUANTITY	SQUARE YARD	53
619 - 01	FENCE, CHAIN LINK, GREEN PVC	DESIGN QUANTITY	LINEAR FOOT	1,549
625 - 27	SEEDING, FERTILIZING, MULCHING, HYDRAULIC METHOD	DESIGN QUANTITY	ACRE	3.5
652 - 01	PRECAST CONCRETE TOILET BUILDING	DESIGN QUANTITY	EACH	2
652 - 02	BULLETIN BOARD	DESIGN QUANTITY	EACH	2
652 - 03	REINSTALL TRASH RECEPTACLES	DESIGN QUANTITY	EACH	2
652 - 04	FURNISH AND INSTALL TRASH RECEPTACLES	DESIGN QUANTITY	EACH	1
652 - 05	STEEL HANDRAIL	DESIGN QUANTITY	LINEAR FOOT	930

CONSTRUCTION NOTES

Section numbers in the notes below refer to the applicable portions of the Standard Specifications of Roads and Bridges on Federal Highway Projects, FP-03, U.S. Customary Units. Refer to Specifications for complete details of the work.

Section 153 Contractors Quality Control
A copy of the "Inspectors Daily Report of Construction Operations" shall be submitted every week to the COR.

Section 156 Public Traffic
The Capulin Snow Play Area, beginning at the gate on the access road, shall be closed to the public at all times during the construction project. Keep existing gate closed or erect and maintain Type III barricades with Road Closed signs in conformance with the Manual of Uniform Traffic Control Devices (MUTCD).
The Capulin Picnic Area shall be kept open to the public at all times. The contractor shall erect and maintain a "Construction Ahead" sign on the entrance road, in conformance with the MUTCD, during construction of the stockpile in the picnic area.

Section 404
Submit a hot asphalt concrete mix of a quality conforming to those normally used locally by either Federal or State agencies for the type of work being considered to the COR for approval.

Section 619 Fences, Gates and Cattleguards
Chain link fence shall be 11 gauge with green PVC coating bonded to the core wire in conformance with all notes shown on the fence detail drawing. Submit color sample to COR for approval.

EARTHWORK TABLE

AREA	EXCAVATION (C.Y.)			EMBANKMENT (C.Y.)		
	GROSS	UNCLASSIFIED	CONSERVED TOPSOIL	GROSS	UNCLASSIFIED	CONSERVED TOPSOIL
CHILDRENS SNOW PLAY	510	411	99	398	1	397
SOUTH SNOW PLAY	1,661	1,208	453	1,945	114	1,831
NORTH SNOW PLAY	6,831	3,114	3,717	5,228	3,298	1,930
MAIN PATHWAYS	280	210	70	260	120	140
SKI AND FOOT TRAILS	176	176	0	140	140	0
TOILET AREAS	70	54	16	32	0	32
PICNIC AREA STOCKPILE	80	80	0	665	665	0
TOTAL	9,618	5,258	4,360	8,658	4,298	4,360

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CAPULIN SNOW PLAY AREA

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ESTIMATE OF QUANTITY AND CONSTRUCTION NOTES

Scale

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SURVEY CONTROL POINT
3
PK NAIL IN ASPHALT

SURVEY CONTROL POINT
1
PK NAIL IN ASPHALT

SURVEY CONTROL POINT
2
PK NAIL IN ASPHALT

CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES, CONTRACTOR TO FIELD VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION EXCAVATION.

LEGEND

- EXISTING EDGE OF ASPHALT
- EXISTING CHAIN LINK FENCE
- EXISTING SNOW FENCE
- EXISTING TRAIL
- EXISTING HANDRAIL
- EXISTING CULVERT
- OVER HEAD ELECTRIC w/POWER POLE
- EXISTING GATE
- 1123 EXISTING CONTOUR
- EXISTING LARGE DIAMETER TREE

COORDINATE TABLE

SURVEY CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP #1	[illegible]	[illegible]	[illegible]	PK NAIL IN ASPHALT
CP #2	[illegible]	[illegible]	[illegible]	[illegible]
CP #3	[illegible]	[illegible]	[illegible]	[illegible]

GRAPHIC SCALE

(IN FEET)

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CAPULIN SNOW PLAY AREA

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EXISTING SITE PLAN

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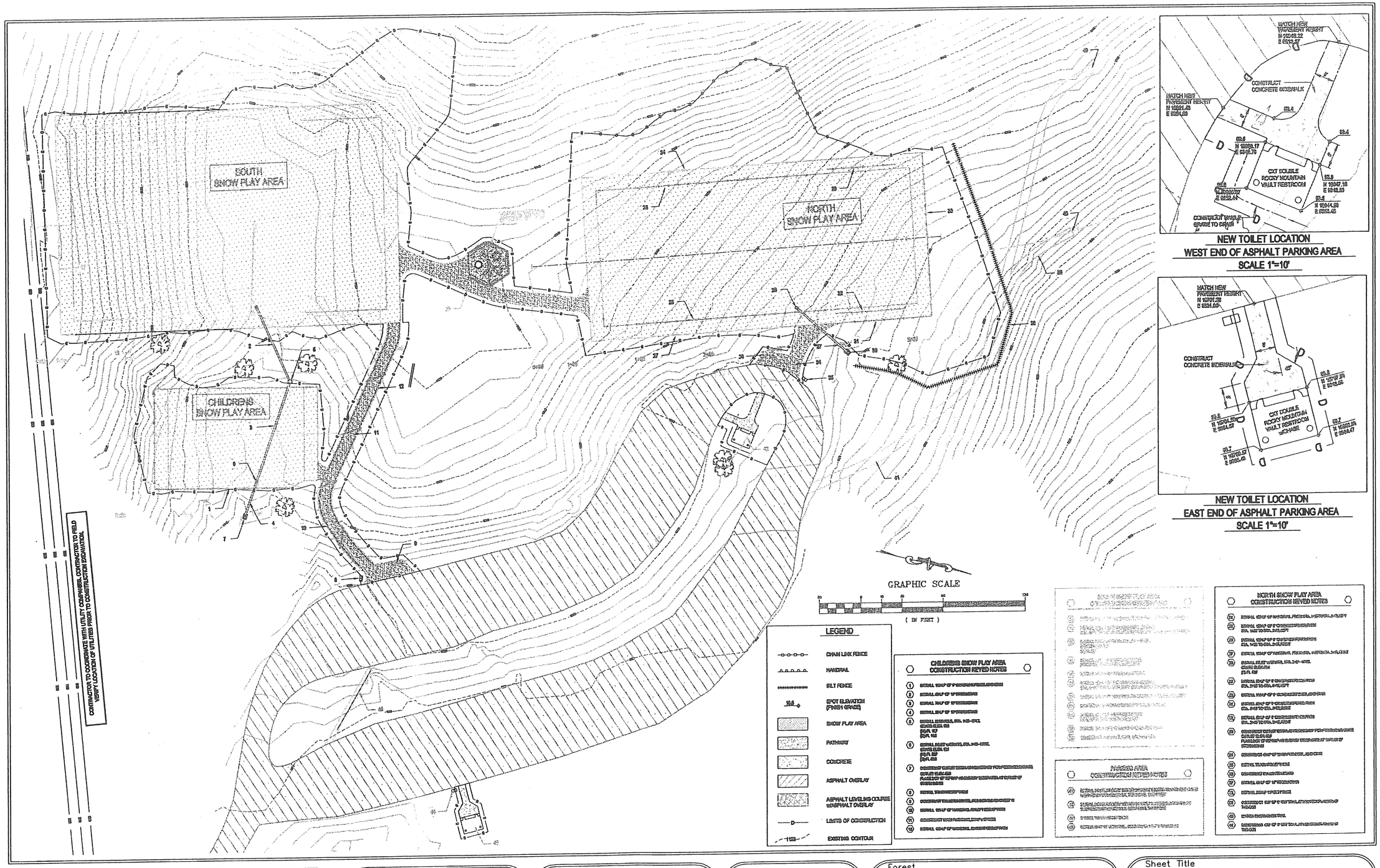

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OVERALL SITE PLAN

Scale

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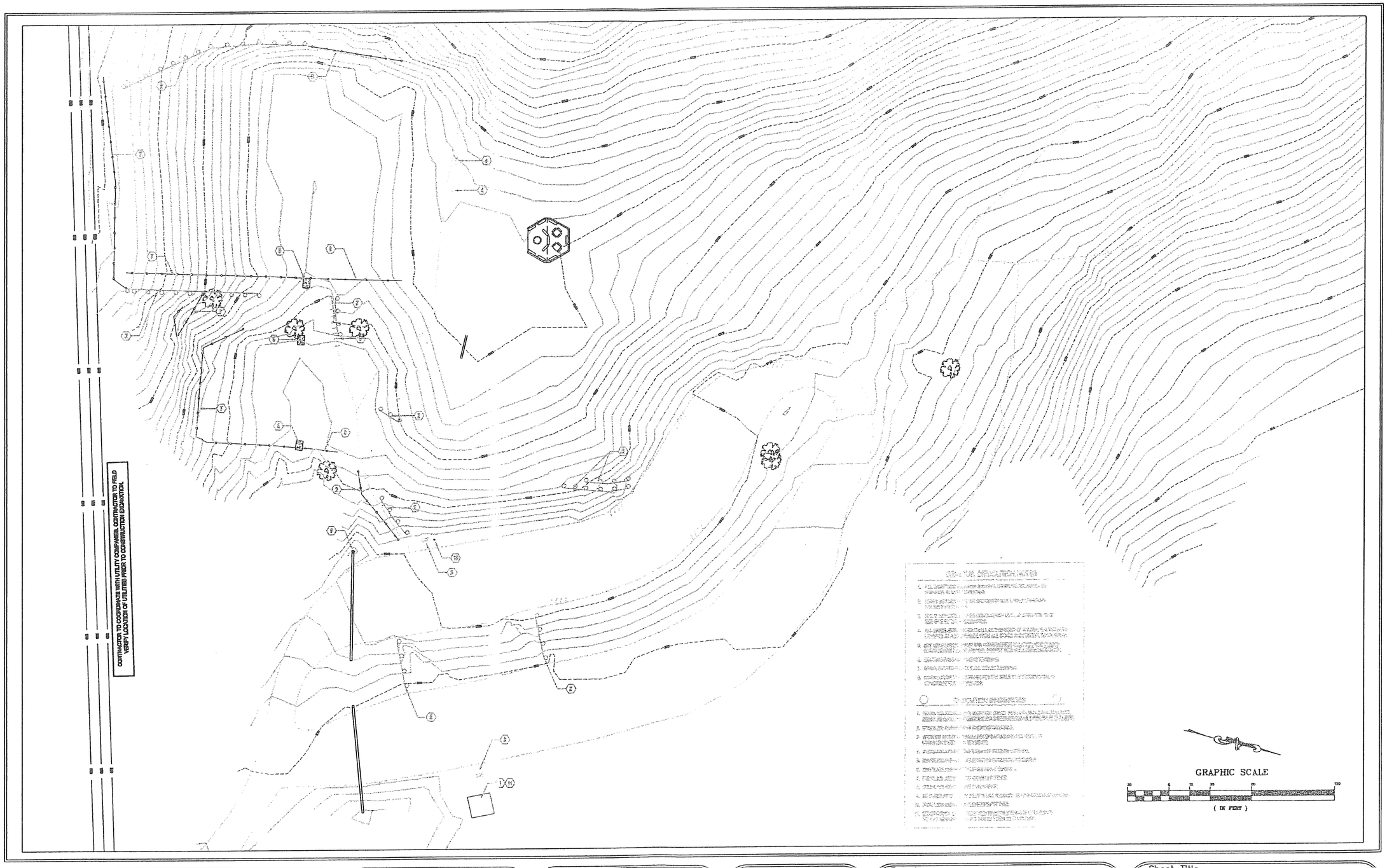

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DEMOLITION PLAN

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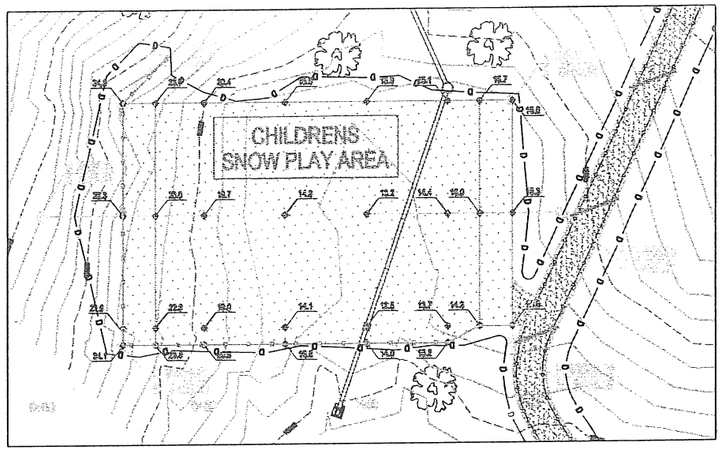
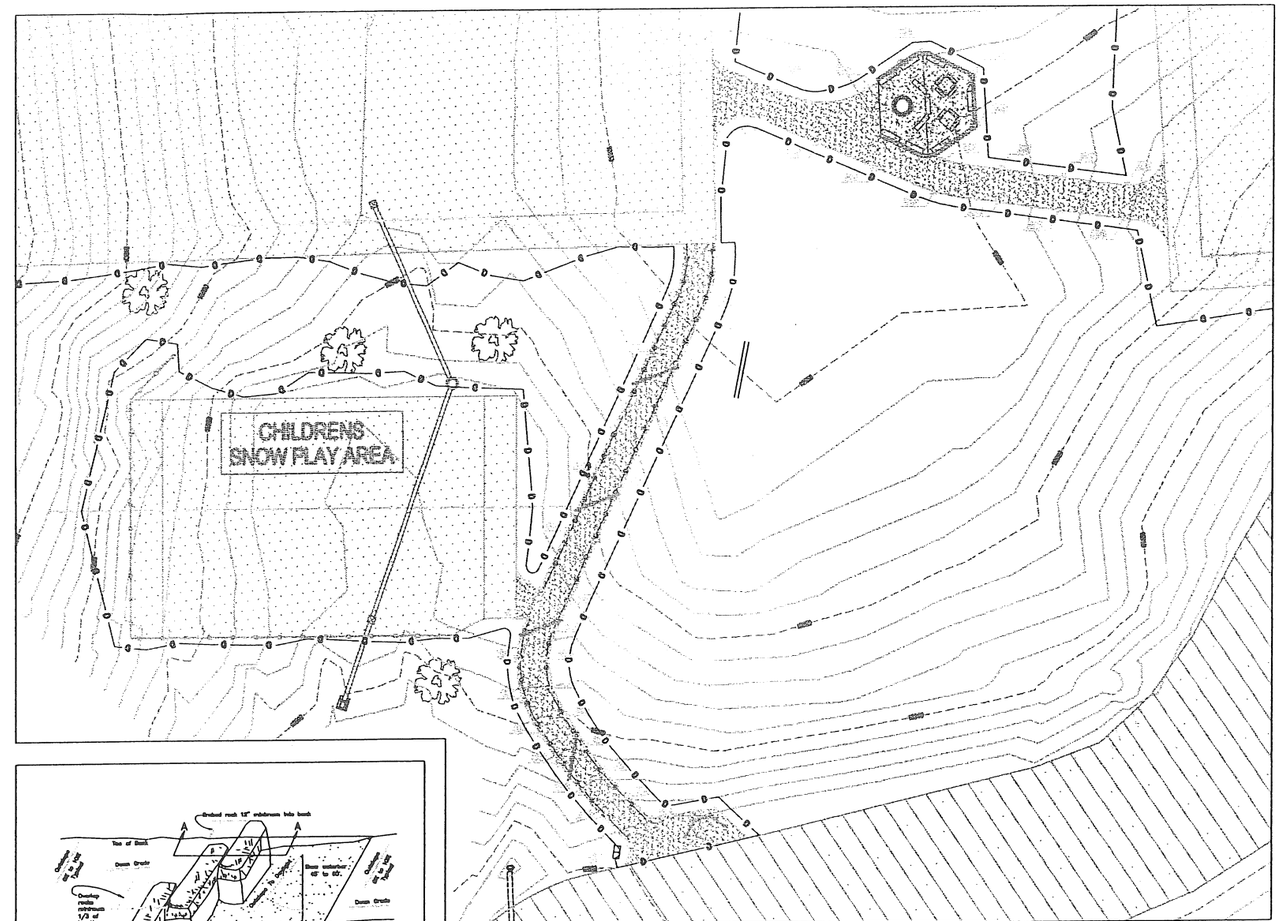
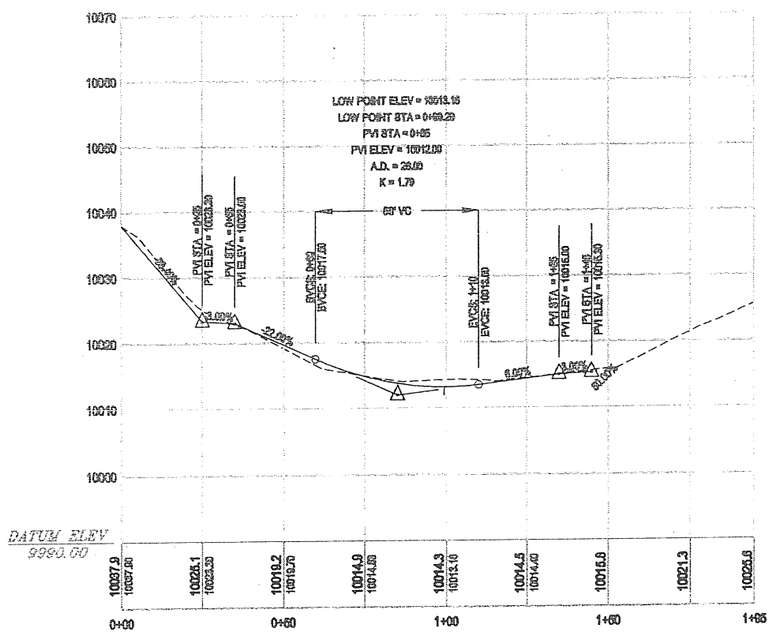
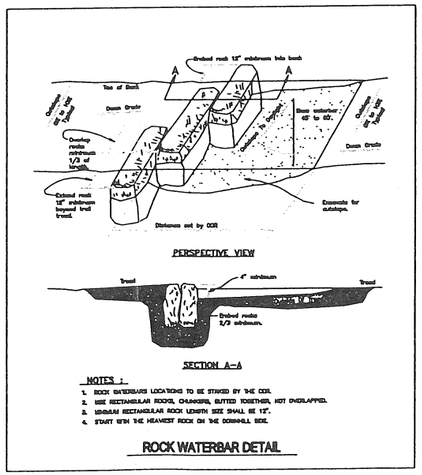


08.2 = FINISH GRADE SPOT ELEVATION







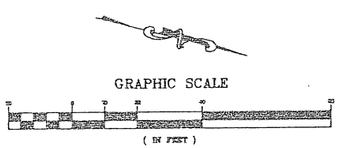
NOTES :

1. ROCK WATERBARS LOCATIONS TO BE STAKED BY THE COR.
2. USE RECTANGULAR ROCKS, CHANGERS, BUTTED TOGETHER, NOT OVERLAPPED.
3. MINIMUM RECTANGULAR ROCK LENGTH SIZE SHALL BE 12".
4. START WITH THE HEAVIEST ROCK ON THE DOWNHILL SIDE.

ROCK WATERBAR DETAIL

08.2 = FINISH GRADE SPOT ELEVATION

10' PATHWAY LAYOUT



LEGEND

- CHAIN LINK FENCE
- HANDRAIL
- SILT FENCE
- SPOT ELEVATION (FINISH GRADE)
- SNOW PLAY AREA
- PATHWAY
- CONCRETE
- ASPHALT OVERLAY
- ASPHALT LEVELING COURSE =ASPHALT OVERLAY
- LIMITS OF CONSTRUCTION
- EXISTING CONTOUR

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Sheet Title
CHILDRENS SNOW PLAY AREA
PLAN AND PROFILE

Scale

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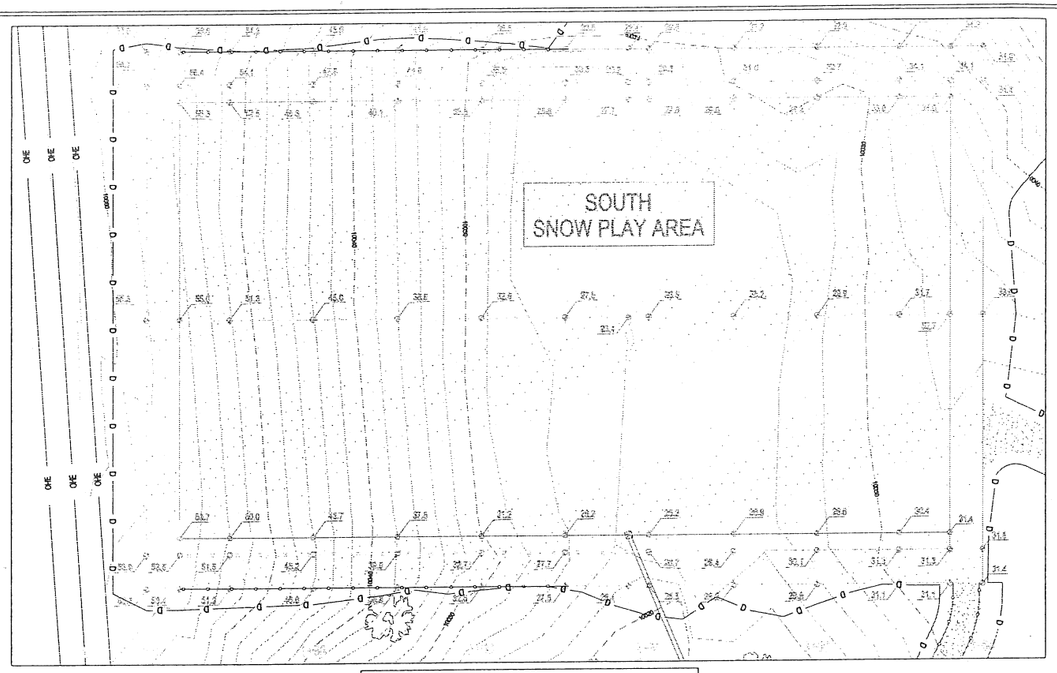
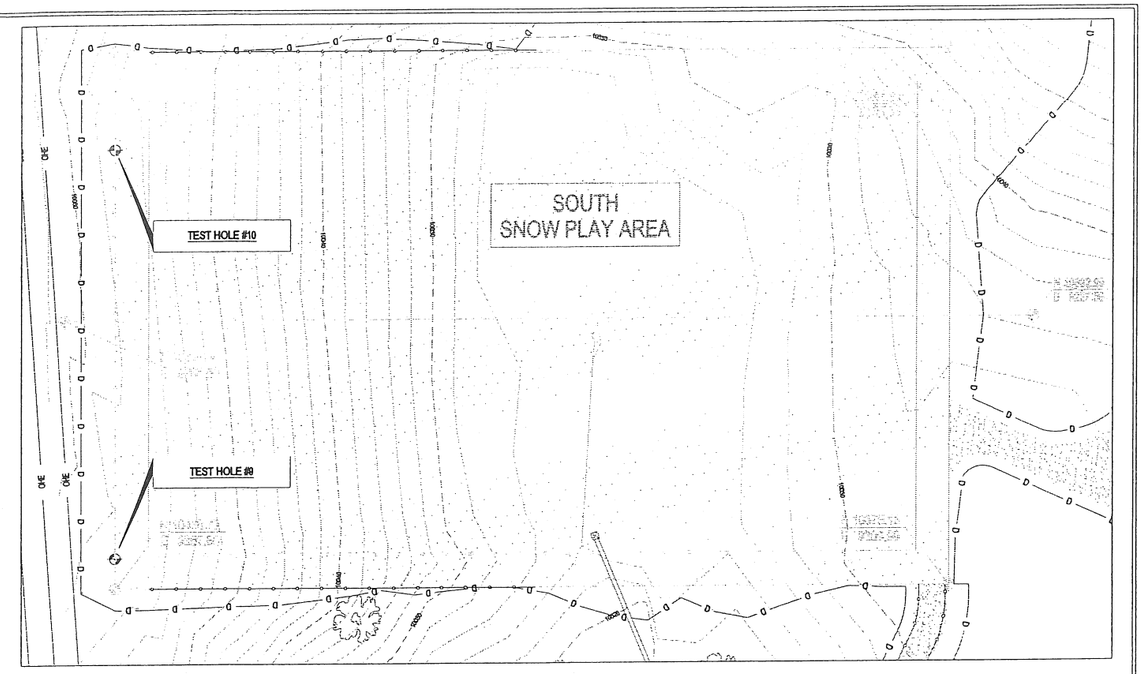
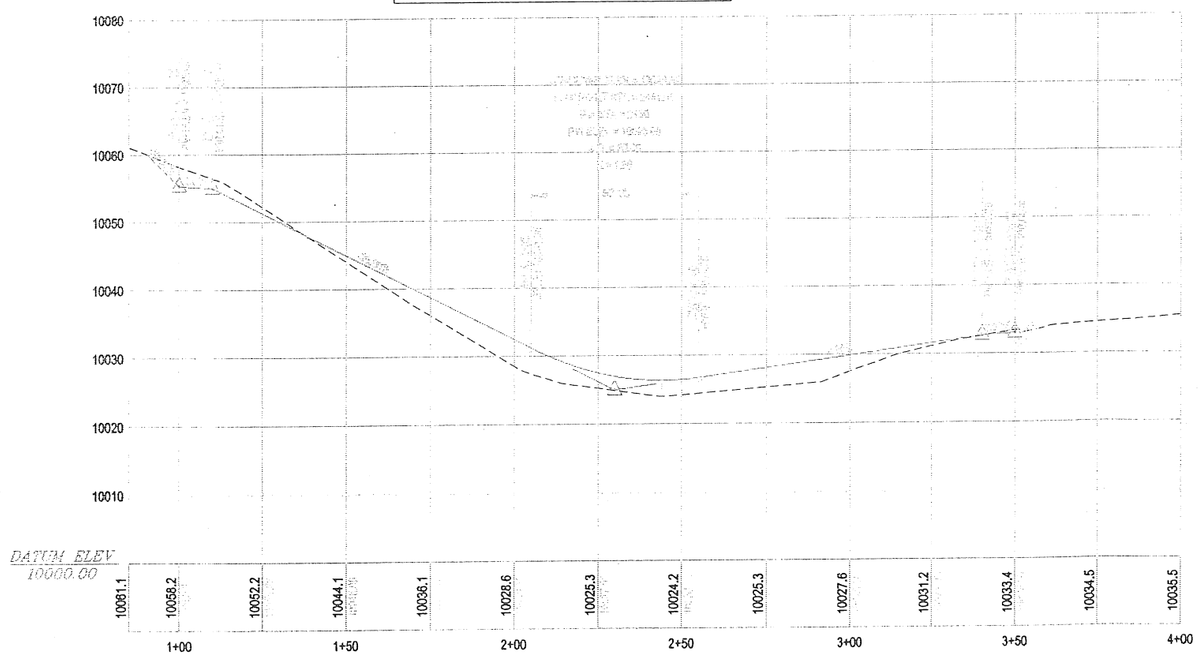


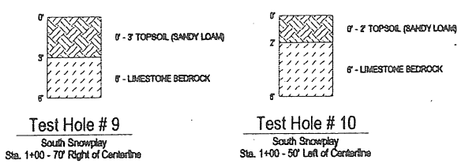


08.2 = FINISH GRADE SPOT ELEVATION



LEGEND

- CHAIN LINK FENCE
- HANDRAIL
- SILT FENCE
- 10.6 SPOT ELEVATION (FINISH GRADE)
- SNOW PLAY AREA
- PATHWAY
- CONCRETE
- ASPHALT OVERLAY
- ASPHALT LEVELING COURSE w/ASPHALT OVERLAY
- D LIMITS OF CONSTRUCTION
- 1126 EXISTING CONTOUR
- T EXISTING TRAIL



Test Hole # 9
South Snowplay
Sta. 1+00 - 70' Right of Centerline

Test Hole # 10
South Snowplay
Sta. 1+00 - 50' Left of Centerline

GENERAL NOTES

1. Test holes were completed using a backhoe.
2. Soil information was based on visual observation. No laboratory testing was performed.
3. Contractor is responsible for taking reasonable steps for ascertaining the character, quality and quantity of surface and subsurface materials.

SOUTH SNOWPLAY AREA TEST HOLE LOCATIONS

GRAPHIC SCALE

(IN FEET)

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CAPULIN SNOW PLAY AREA

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SOUTH SNOW PLAY AREA
PLAN AND PROFILE

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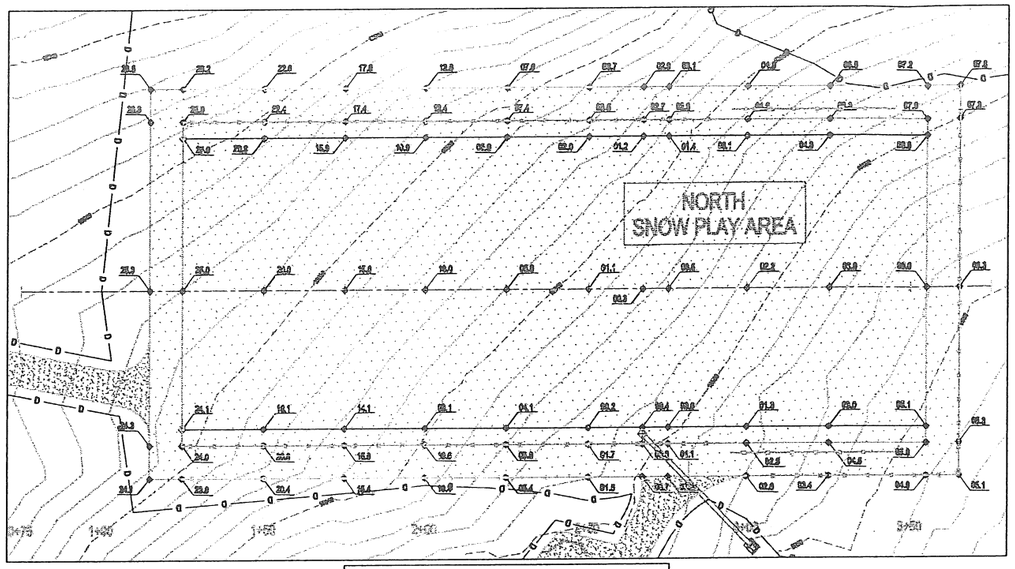
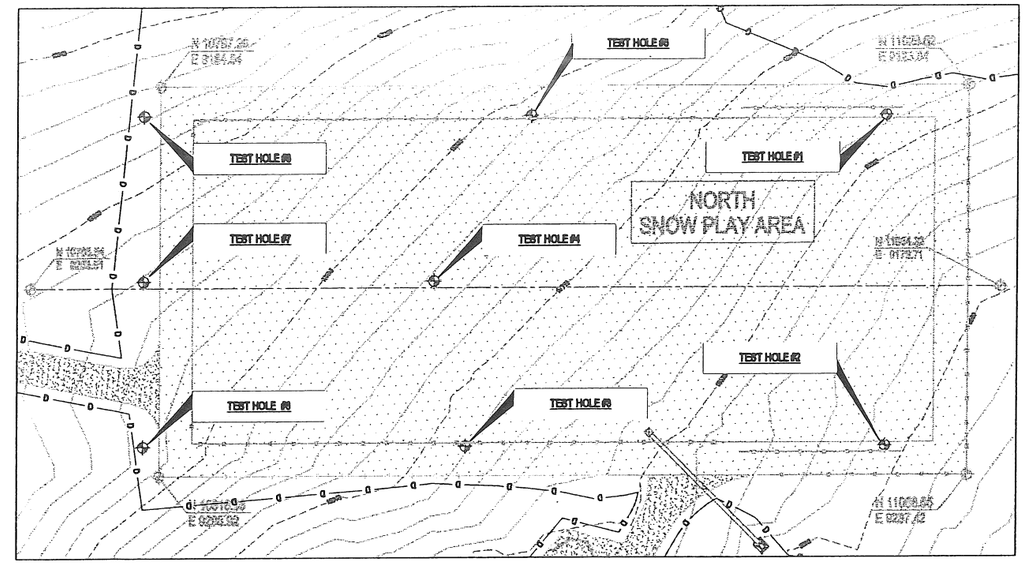
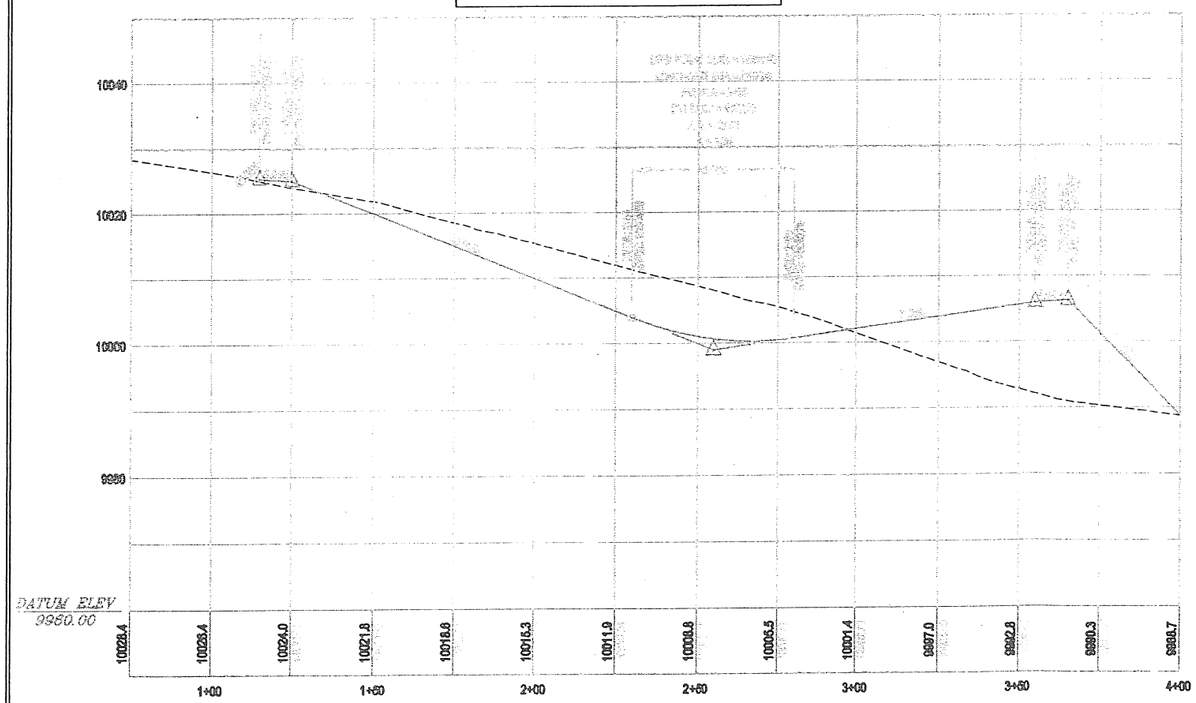
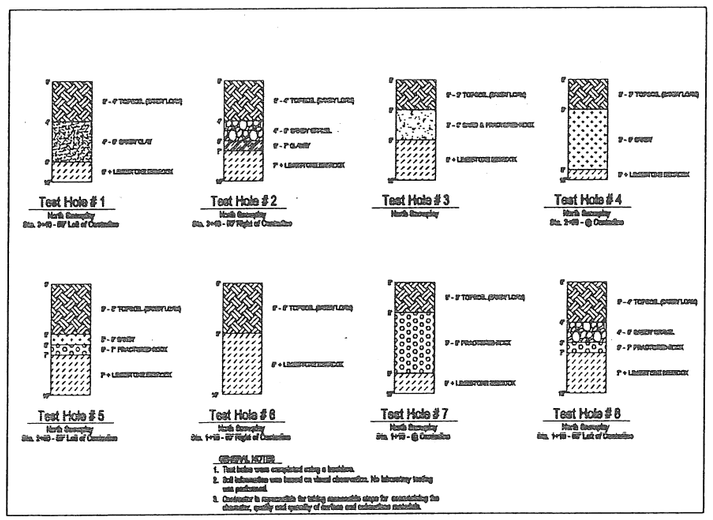




08.2 ⌖ = FINISH GRADE SPOT ELEVATION





LEGEND

- CHAIN LINK FENCE
- HANDRAIL
- SILT FENCE
- 99.4 ⌖ SPOT ELEVATION (FINISH GRADE)
- SNOW PLAY AREA
- PATHWAY
- CONCRETE
- ASPHALT OVERLAY
- ASPHALT LEVELING COURSE ASPHALT OVERLAY
- LIMITS OF CONSTRUCTION
- 7100 EXISTING CONTOUR
- EXISTING TRAIL

NORTH SNOWPLAY AREA
TEST HOLE LOCATIONS

GRAPHIC SCALE

(IN FEET)

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FOREST SERVICE
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CIBOLA NATIONAL FOREST

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CAPULIN SNOW PLAY AREA

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NORTH SNOW PLAY AREA
PLAN AND PROFILE

Scale

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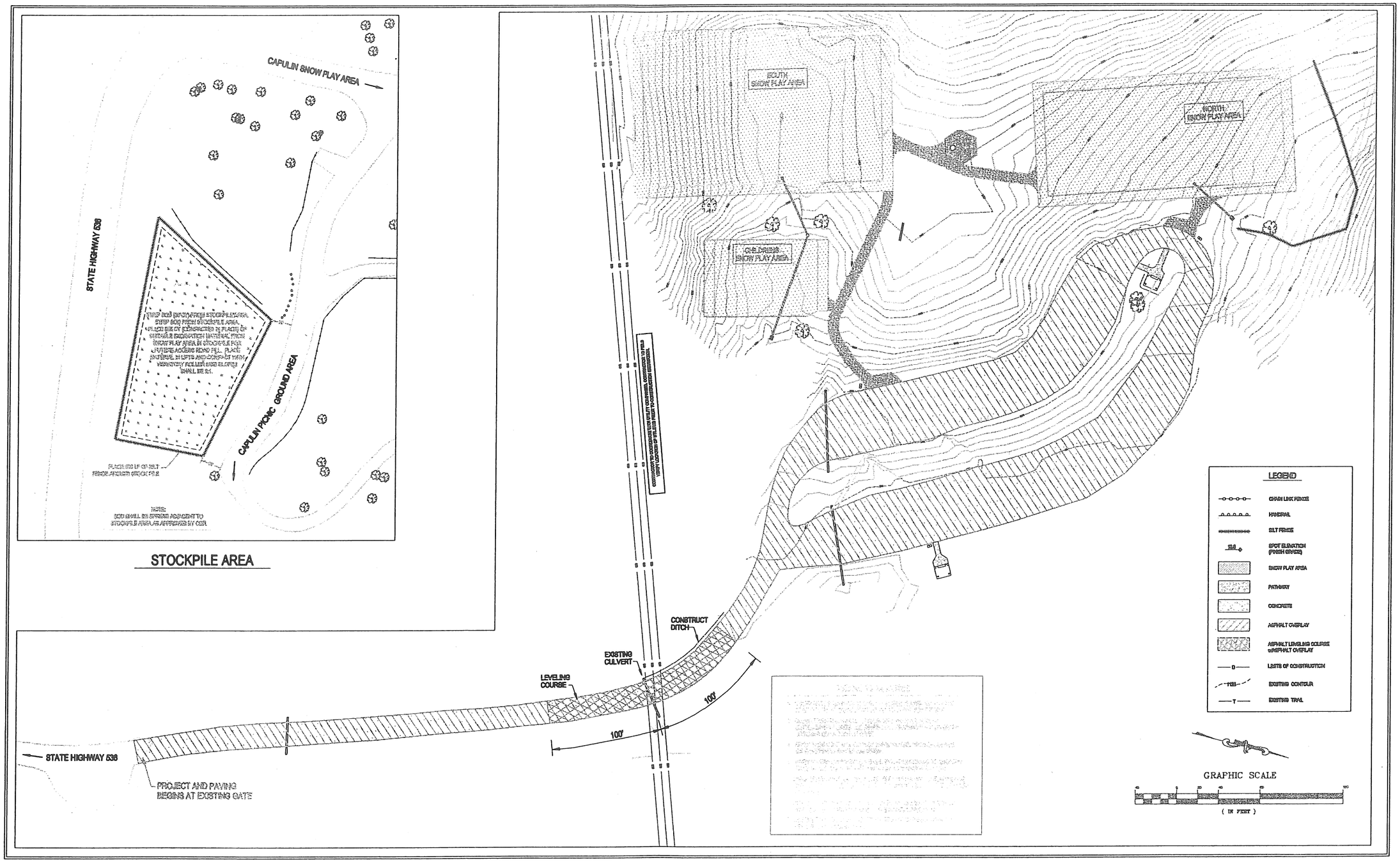

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CAPULIN SNOW PLAY AREA

Sheet Title
SNOW PLAY PARKING AREA AND ACCESS ROAD PLAN

Scale

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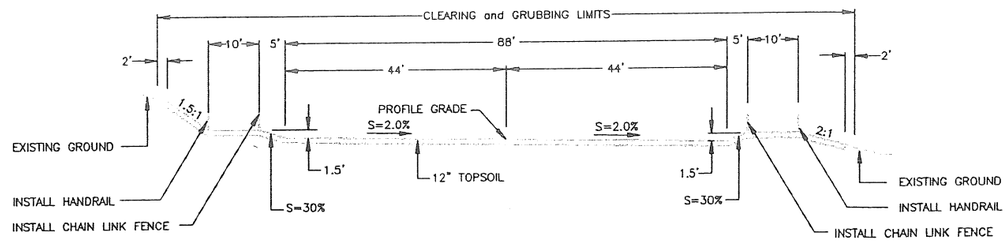

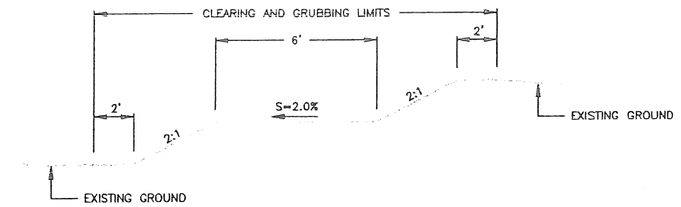

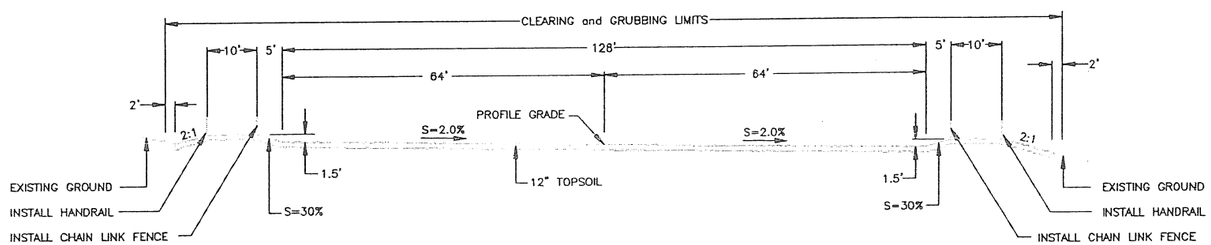

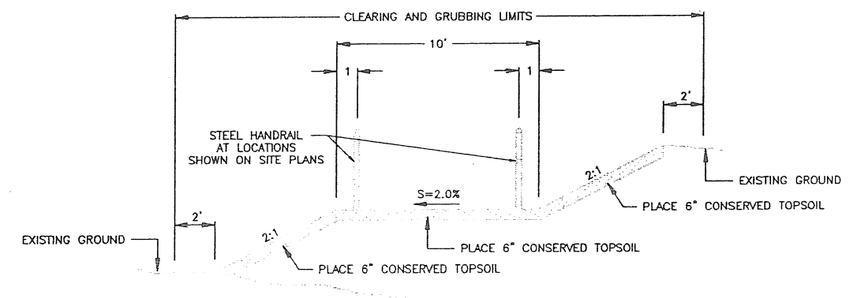

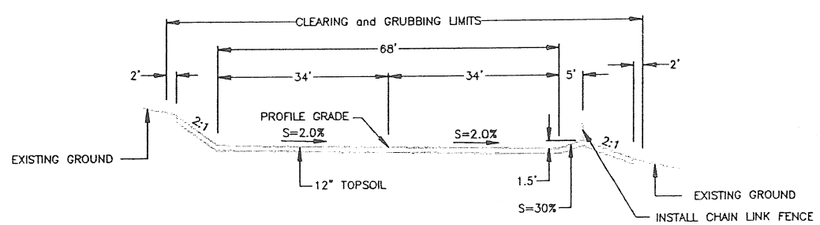

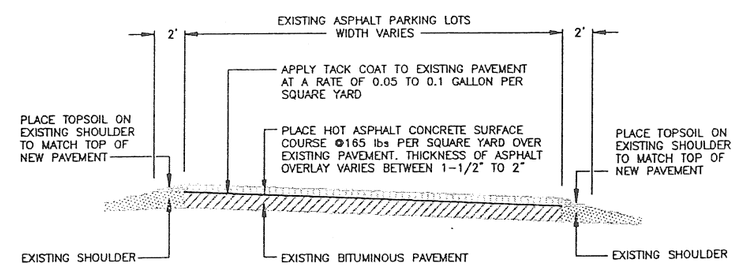

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CAPULIN SNOW PLAY AREA

Sheet Title
TYPICAL CROSS SECTIONS

Scale

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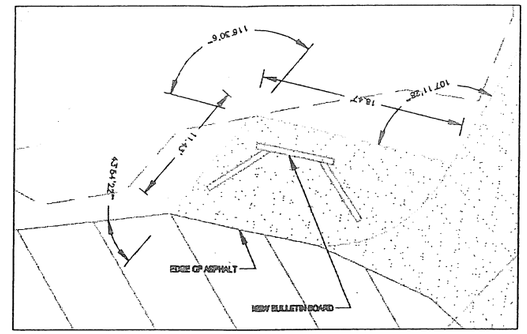
of 14

PLAN VIEW

SECTION

1. 4" THICK CONCRETE SIDEWALK, REINFORCED PER SPECIFICATIONS. CONTRACTOR SHALL PROVIDE A SMOOTH FINISH, PERPENDICULAR TO INCREMENTS.
2. REMOVE SUBGRADE TO A MINIMUM DEPTH OF 4" BELOW SIDEWALK FINISH. SUBGRADE SHALL BE FREE OF ORGANIC MATERIAL AND COMPACTED TO MINIMUM OF 95% MAXIMUM MOISTURE CONTENT, AND COMPACTED TO MINIMUM OF 95% ASTM-D-698.
3. BACKFILL SHALL BE PLACED IN CONSIDERANCE
4. OVERLAP WITH REMARKS.
5. 1/2" EXPANSION JOINTS SHALL BE PLACED AT MAXIMUM OF 100 FT.
6. CONTROL 1" DEEP SCORE CONTROL JOINT @ 4' O.C.
7. EXPANSION EXPANSION IN CLEARANCE BETWEEN SIDEWALK AND ADJACENT EXPANSION JOINTS 1/2"

5' CONCRETE SIDEWALK DETAIL



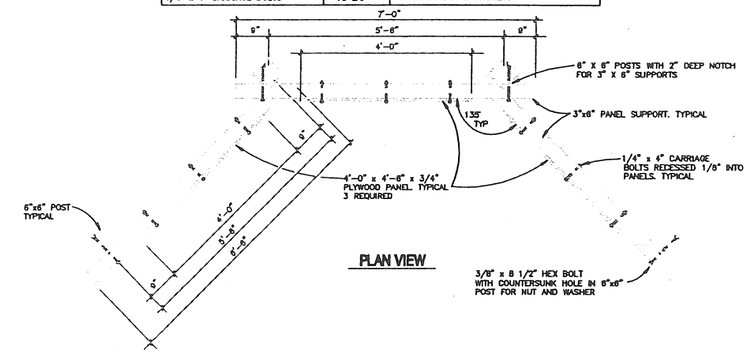
NORTH BULLETIN BOARD AT PARKING AREA

NOTES :

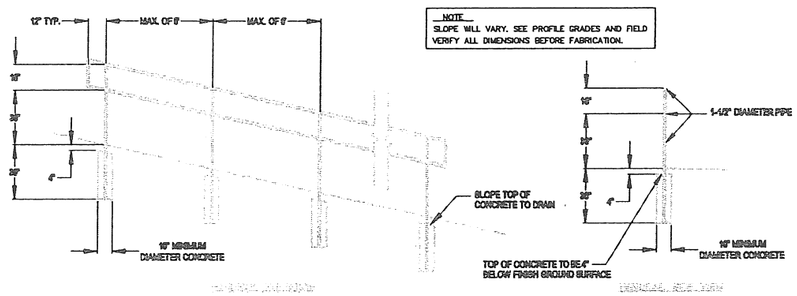
1. ALL STRUCTURAL MEMBERS TO BE PRESSURE TREATED WITH ACQ.
2. ALL BOLT HEADS TO BE PAINTED WITH FED. STD. 595a #20059 SEMI-GLOSS.
3. ROUTED LETTERS TO BE PAINTED WITH FED. STD. 595a #23695 HIGH GLOSS.
4. CONTRACTOR SHALL STRIP, ALTER OR DAMAGE BOLTS TO PREVENT VANDALISM.

MATERIAL LIST

ITEM	QUANTITY	REMARKS
6"x6"x10'-0" POSTS	4 EA.	
4'-0"x4'-6"x3/4" PLYWOOD PANEL GRADE B-B OR BETTER	3 EA.	MEDIUM DENSITY OVERLAY PLYWOOD W/ FED STD 595b #20059 SEMI-GLOSS
3"x6" SUPPORTS	40 L.F.	(4) 6'-6" LENGTHS (3) 7'-0" LENGTHS
ROUTED SIGN BOARD	1 EA.	(1) 7'-0" LENGTH TREATED TIMBER-TYPE 1 PAINT ROUTED LETTERS W/ YEL-CREAM
3/8" x 8 1/2" HEX BOLTS	14 EA.	WITH NUTS AND WASHERS
1/4" x 4" CARRIAGE BOLTS	18 EA.	WITH NUTS AND WASHERS

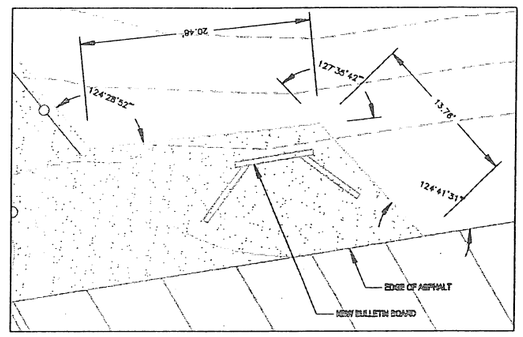


PLAN VIEW

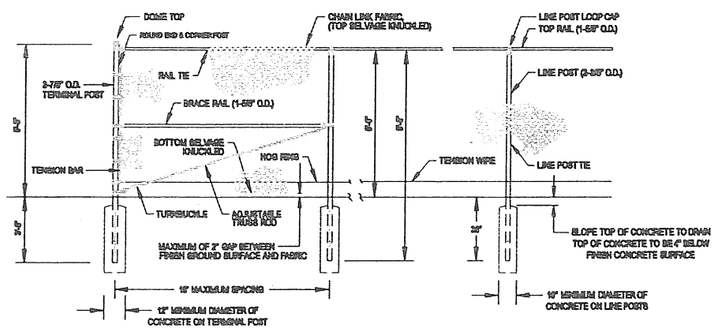


NOTE
SLOPE WILL VARY. SEE PROFILE GRADES AND FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION.

TYPICAL HANDRAIL DETAIL



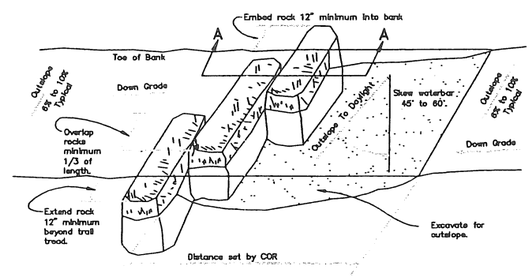
SOUTH BULLETIN BOARD AT PARKING AREA



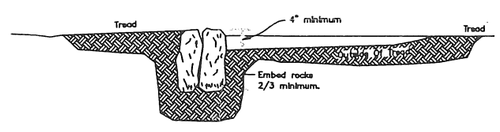
FENCE NOTES

MESH SIZE 1-3/4" - 11 GAUGE
FABRIC SPECIFICATIONS:
VINYL FENCE SPC
CORE SIZE .120
MESH SIZE 2" OR 1-3/4"
COATING : 22 MILS OF PVC COATING BONDED TO CORE WIRE
HEIGHT 60"
SELVAGE KNUCKLE AND KNUCKLE
MEETS OR EXCEEDS FED. SPEC RR-F-191/10
ASTM SPC. F-668 CLASS 2A
VINYL FRAMEWORK SPC.
DIAMETER AND WALL THICKNESS 2"-0.0934 WALL THICKNESS
WT./FEET 2"-1.831 lbs./ft.
COATING .90 OUNCES OF ZINC PER FT
EPOXY POWDER COAT 2 MILS
POLYESTER COLOR COAT 2-3 MILS
COLOR GREEN
TOP RAIL 1-5/8" 15 GAUGE
LINE POST 2-3/8" 15 GAUGE
TERMINAL POST 2-7/8" 15 GUAGE

TYPICAL CHAIN LINK FENCE DETAIL



PERSPECTIVE VIEW

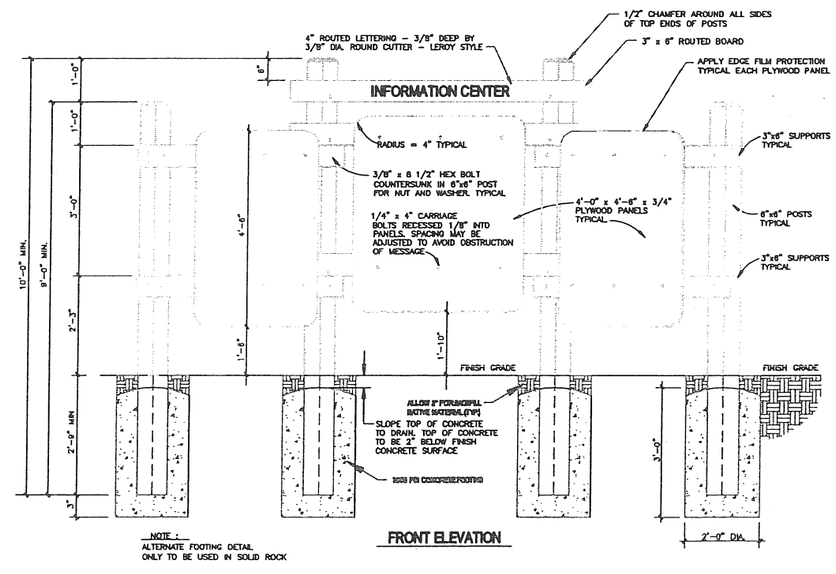


SECTION A-A

NOTES :

1. ROCK WATERBARS LOCATIONS TO BE STAKED BY THE COR.
2. USE RECTANGULAR ROCKS, CHUNKERS, BUTTED TOGETHER, NOT OVERLAPPED.
3. MINIMUM RECTANGULAR ROCK LENGTH SIZE SHALL BE 12".
4. START WITH THE HEAVIEST ROCK ON THE DOWNHILL SIDE.

ROCK WATERBAR



NOTE :
ALTERNATE FOOTING DETAIL
ONLY TO BE USED IN SOLID ROCK

FRONT ELEVATION

BULLETIN BOARD

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MISCELLANEOUS DETAILS

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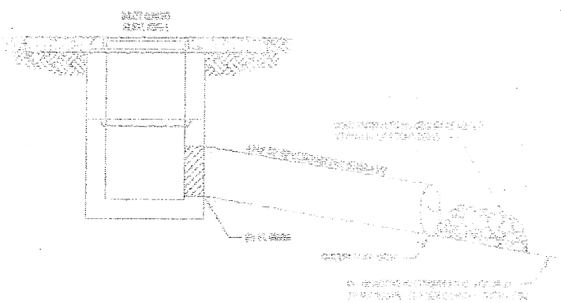
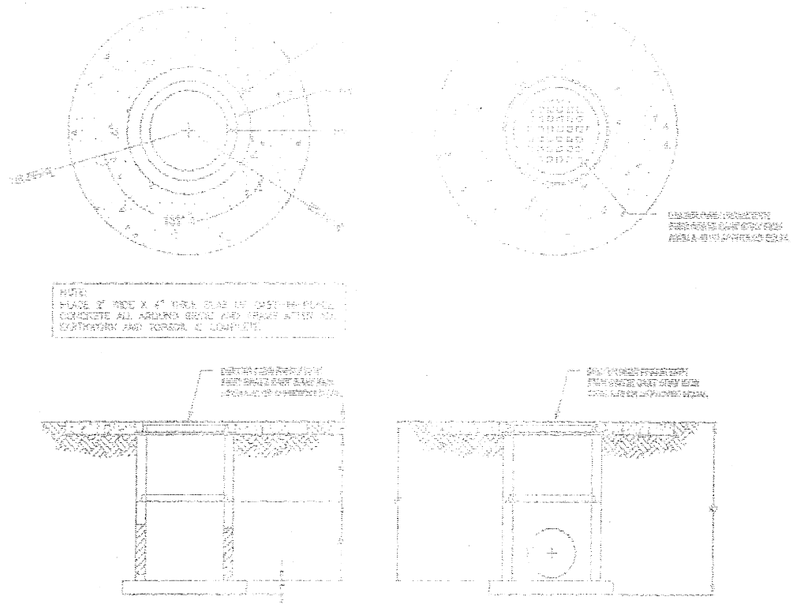
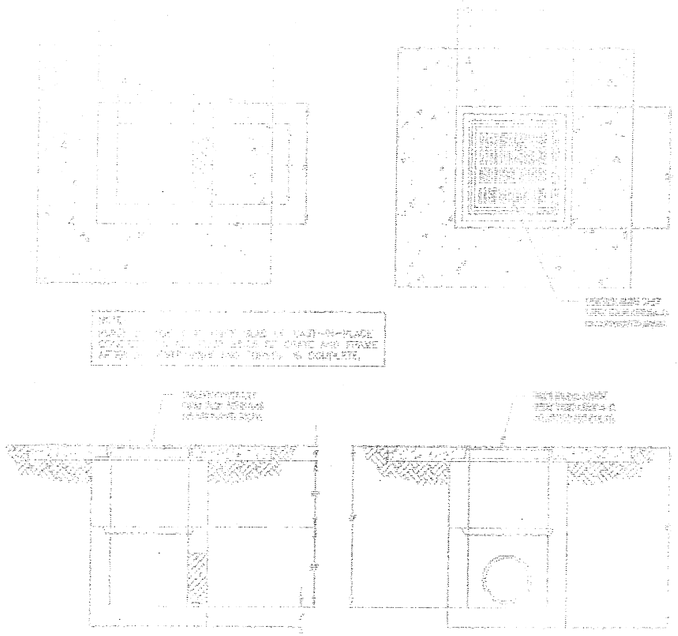


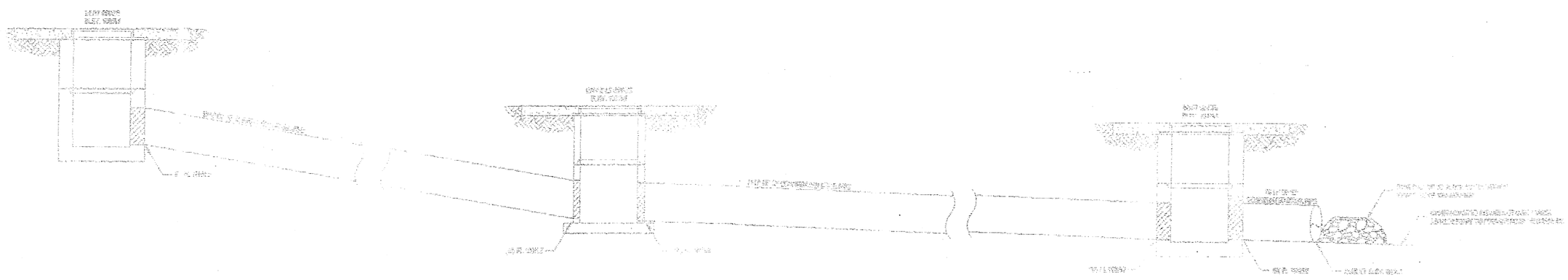
STORM DRAIN OUTFALL
NORTH SNOWPLAY AREA



24" I.D. PRECAST CONCRETE MANHOLE



2'x2' I.D. PRECAST CONCRETE INLET



STORM DRAIN SYSTEM
(WILDREN AND SOUTH SNOWPLAY AREAS)

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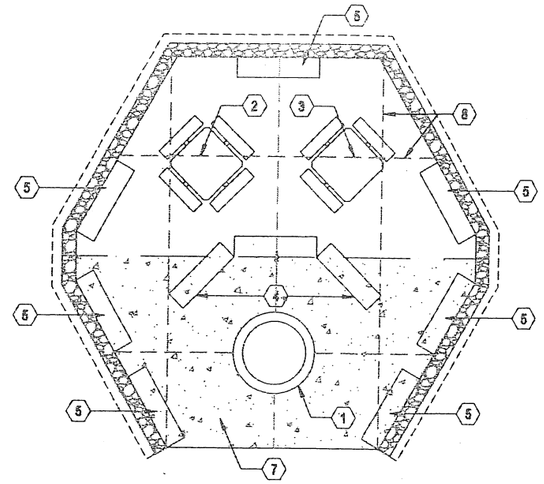
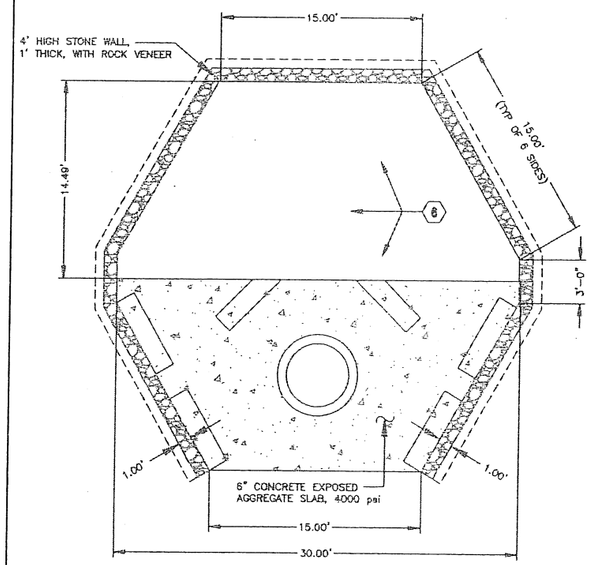
WARMING SHELTER CONSTRUCTION KEYED NOTES

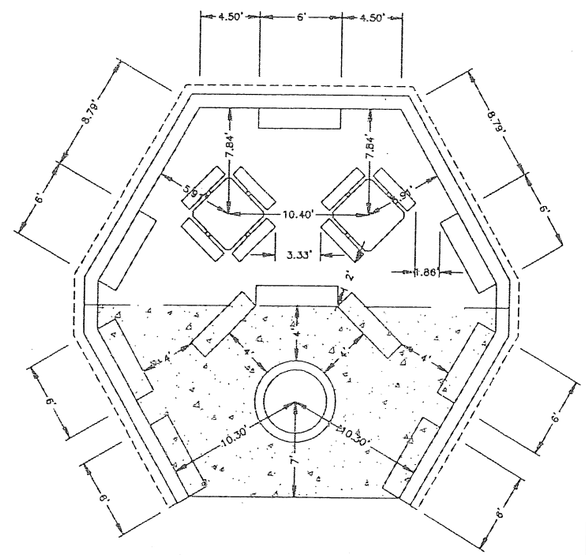
1. INSTALL GROUP FIREPIT (1)
   MANUFACTURER : OUTDOOR CREATIONS, INC., MODEL 303
   INSTALL PER MANUFACURERS RECOMMENDATIONS
2. INSTALL SQUARE PEDESTAL PICNIC TABLE (1)
   MANUFACTURER : PILOT ROCK, MODEL PQT / G-4AL
   INSTALL PER MANUFACURERS RECOMMENDATIONS
3. INSTALL SQUARE PEDESTAL PICNIC TABLE (1)
   MANUFACTURER : PILOT ROCK, MODEL PQT3 / G-4PY
   INSTALL PER MANUFACURERS RECOMMENDATIONS
4. INSTALL DOUBLE PEDESTAL BENCH (3)
   MANUFACTURER : PILOT ROCK, MODEL APB / P / G-6VA10
   PLASTISOL COATED EXPANDED METAL SEAT, V-TYPE BROWN (CVW)
   INSTALL PER MANUFACURERS RECOMMENDATIONS
5. INSTALL CHANNEL BENCH (7)
   MANUFACTURER : PILOT ROCK, MODEL PCX3 / G-6VW10
   PLASTISOL COATED EXPANDED METAL SEAT AND BACK, V-TYPE BROWN (CVW)
   INSTALL PER MANUFACURERS RECOMMENDATIONS
6. CONSTRUCT WARMING SHELTER (1)
   MANUFACTURER : CLASSIC RECREATIONS, VIENNA MODEL
   REDESIGNED FOR 30'
   INSTALL PER MANUFACURERS RECOMMENDATIONS
7. CONSTRUCT WARMING SHELTER w/6" CONCRETE SLAB, 3000 psi
   MANUFACTURER : CLASSIC RECREATIONS, VIENNA MODEL
   REDESIGNED FOR 30'
8. PLACE EXPANSION AND CONTROL JOINTS PER COR DIRECTION. PROVIDE COR WITH SAMPLE OF JOINT SEALING COMPOUND FOR APPROVAL PRIOR TO PLACEMENT. PLACE JOINT SEALING COMPOUND MATERIAL AT COLUMNS AND AT STONE WALL.



Tables and Benches Locations
Expansion and Control Joint Layout



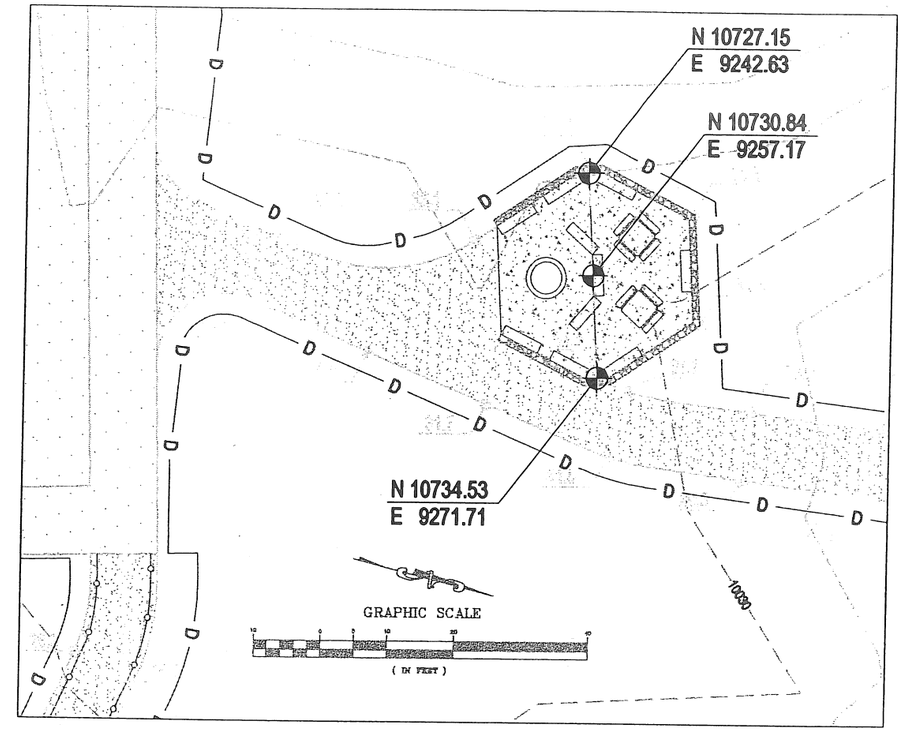
Plan View



Firepit, Tables and Benches Layout

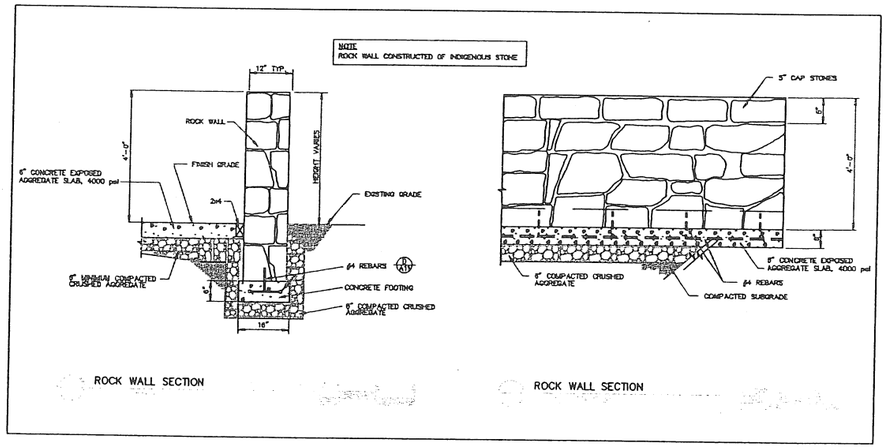
WARMING SHELTER AREA - OPTIONAL ITEM

SCALE : 1" = 5'



WARMING SHELTER AREA - OPTIONAL ITEM

SCALE : 1" = 10'



CONCRETE & STONE WALL DETAILS - OPTIONAL ITEM

SCALE : 1" = 3'

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Scale: AS SHOWN

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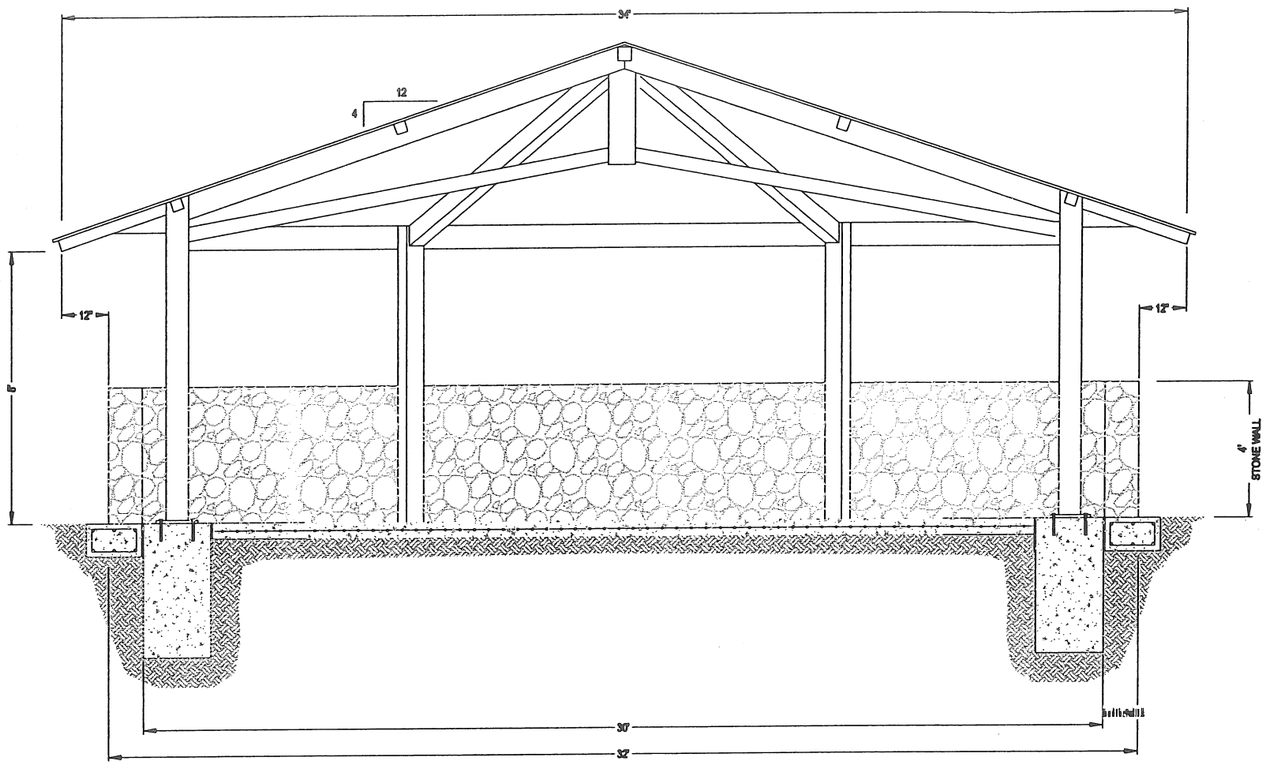
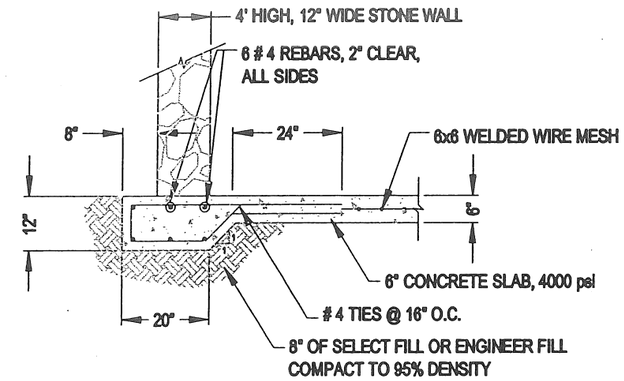


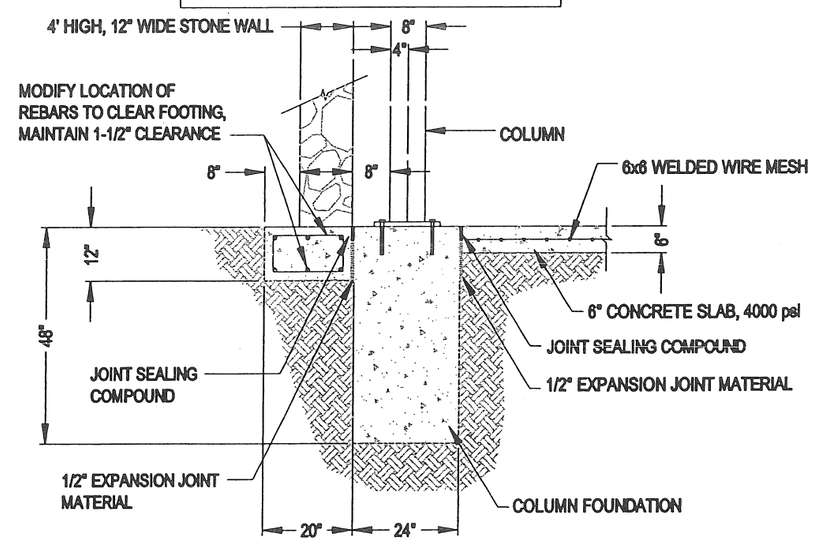
WARMING SHELTER SECTION

NOTE: THIS SECTION APPLIES AT FOUNDATION WHERE A COLUMN DOES NOT EXIST



ROCK WALL FOUNDATION SECTION

NOTE: THIS SECTION APPLIES AT FOUNDATION WHERE A COLUMN EXISTS



ROCK WALL FOUNDATION AND COLUMN SECTION

WARMING SHELTER AREA - OPTIONAL ITEM

SCALE : 1" = 5'

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Scale: AS SHOWN

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