ROCA HONDA RESOURCES L.L.C.

ATTACHMENT 1 SELECTED CONSTRUCTION DRAWINGS FOR

ROCA HONDA URANIUM MINE

MINE OPERATIONS PLAN, REVISION 1

SECTIONS 9, 10 and 16

SITE IMPROVEMENTS

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PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE

COVER

SHEET NO:

SHEET 1 OF 85

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ABBREVIATIONS

ABBREVIATION	TERM
A/C	AIR CONDITION
A/C UNIT	AIR CONDITION UNIT
AD	AREA DRAIN
ADJ	ADJOINING
ALUM	ALUMINUM
BALC	BALCONY
BC	BACK OF CURB
BDRY	BOUNDARY
BITUM	BITUMINOUS
BL	BASE LINE
BLDG	BUILDING
BM	BENCHMARK
BRG	BEARING
BSMT	BASEMENT
BU	BUSHEL
C&G	CURB AND GUTTER
CEM	CEMENT
CI	CURB INLET
CNR	CORNER
CO	CLEANOUT
CONC	CONCRETE
CP	CONCRETE PIPE; CONTROL POINT
CRT YD	COURTYARD
CSP	CONCRETE SEWER PIPE
CTR	CONTOUR
CTRL	CONTROL
D	DEPTH
DA	DRAINAGE AREA
DET	DETAIL
DETN	DETENTION
DI	DROP INLET
DIM	DIMENSION
DIR	DIRECTION
DIST	DISTANCE
DR	DRIVE; DRAIN
DS	DOWNSPOUT
EC	EDGE OF CURB
EL	ELEVATION; EASEMENT LINE
EOS	EDGE OF SLAB
EP	EDGE OF PAVEMENT (PAVING)
ES	EDGE OF SHOULDER
ESMT	EASEMENT
EXIST	EXISTING
FD	FLOOR DRAIN
FF EL	FINISHED FLOOR ELEVATION
FLL	FLOW LINE
FOC	FACE OF CURB
G	GROUND
GDR	GUARD RAIL
HC	HANDICAP
HDWL	HEADWALL
HNDRL	HANDRAIL
HT	HEIGHT
HWY	HIGHWAY
IMH	INLET MANHOLE
INV	INVERT
INV EL	INVERT ELEVATION
J-BOX	JUNCTION BOX
LDG	LANDING
LDMK	LANDMARK
LNDSCP	LANDSCAPE
MH	MANHOLE
MON	MONUMENT
NTS	NOT TO SCALE
OUT	OUTLET
PB	PULLBOX
PC	POINT OF CURVE
PED	PEDESTAL
PK LOT	PARKING LOT
PL	PROPERTY LINE
PP	PANEL POINT
PRKG	PARKING
PV	PAVED
PV RD	PAVED ROAD
R	RADIUS
RR	RAILROAD (TIE)
RD	ROAD; ROOF DRAIN
SAN	SANITARY

ABBREVIATION	TERM
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SEP TNK	SEPTIC TANK
SHLDR	SHOULDER
SIG	SIGNAL
SP EL	SPOT ELEVATION
SS	SANITARY SEWER; STORM SEWER
SW	SIDEWALK
TE	TOP ELEVATION
TOC	TOP OF CURB
TOC WALL	TOP OF CONCRETE WALL
TOPO	TOPOGRAPHY
TOW	TOP OF WALL
TYP	TYPICAL
UGND	UNDERGROUND
UTIL	UTILITY
WTR	WATER
YCO	YARD CLEANOUT
YD	YARD DRAIN; YARD DRAIN PIPE
YH	YARD HYDRANT
YI	YARD INLET

L E G E N D S

UTILITIES LEGEND

EXISTING	NEW	
		DEWATERING WELL
M		MONITORING WELL
	WV	WATER VALVE
		REDUCER
		FIRE HYDRANT
	S	SANITARY SEWER MANHOLE
	D	STORM DRAIN MANHOLE
	LS	LIFT STATION
		SUMP PUMP
		DRAINAGE INLET
		DRAINAGE CULVERTS
	GV	GAS VALVE
		LIGHT POLE
		POWER POLE
		TRANSFORMER ELECTRIC BOX
E	E	ELECTRIC METER
	T	TELEPHONE MANHOLE
	T	TELEPHONE PEDESTAL
	W	POTABLE WATER LINE
	WR	WATER REUSE LINE
	MDW	MINE DEWATERING LINE FROM SHAFT
	DW	MINE DEWATERING LINE FROM DEWATERING WELL
	SAS	SANITARY SEWER LINE
	FM	SANITARY SEWER FORCE MAIN
	SD	STORM DRAIN LINE
G	G	PROPANE GAS LINE
UGE	UGE	UNDERGROUND ELECTRIC LINE
OHE	OHE	OVERHEAD ELECTRIC LINE
UGT	UGT	UNDERGROUND TELEPHONE LINE
FO	FO	UNDERGROUND FIBER OPTIC LINE

LEGEND

EXISTING	NEW	
		HORIZONTAL & VERTICAL BENCHMARK
		CONTROL POINT
7200	7200	SPOT ELEVATION
7200	7200	INDEX CONTOUR
		INTERMEDIATE CONTOUR
		DEPRESSION CONTOUR
		BASE COURSE ROAD
		IMPROVED DIRT ROAD
		UNIMPROVED DIRT ROAD
		CENTERLINE
		CHAIN LINK FENCE
X	X	WIRE FENCE
		GUARD RAIL
		APPROXIMATE SECTION LINE
		BOUNDARY
		BUILDING
		BASE COURSE MISC
		RIPRAP
		UNDISTURBED EARTH
		COMPACTED EARTH

UTILITY COMPANY	CONTACT NAME	PHONE NUMBER	UTILITY SERVICE
CONTINENTAL DIVIDE ELECTRIC	BRUCE PRICHARD	505-285-6656	CONTINENTAL DIVIDE ELECTRIC
OMI	ANTHONY MARTINEZ	505-290-1969	WATER
OMI	ANTHONY MARTINEZ	505-290-1969	WASTEWATER
NEW MEXICO GAS COMPANY	DAVID RIOS	505-287-3740	GAS
COMCAST	COMCAST	800-266-2270	CABLE
CENTURY LINK	CENTURY LINK	800-972-8805	PHONE

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ROCA HONDA MINES
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SHEET TITLE

LEGEND AND ABBREVIATIONS SHEET

SHEET NO:

SHEET 2 OF 85

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Division 00 – Procurement and Contracting Requirements
00 0101 Table of Contents
00 0107 Seals Page
00 7200 General Conditions

Division 01 – General Requirements
01 1000 Summary
01 2300 Additive Bid Items
01 3000 Administrative Requirements
01 3101 General Site Management Practices
01 3300 Submittal Procedures
01 4000 Quality Requirements
01 5000 Temporary Facilities and Controls
01 6000 Product Requirements
01 7000 Execution and Closeout Requirements

Division 03 – Concrete
03 3000 Cast-in-Place Concrete
03 3900 Concrete Curing

Division 04 – Masonry
04 2731 Reinforced Unit Masonry

Division 05 – Metals
05 1200 Structural Steel Framing
05 4000 Cold-Formed Metal Framing
05 5000 Metal Fabrications
05 5100 Metal Stairs
05 5213 Pipe and Tube Railings

Division 06 – Wood and Plastics
06 1000 Rough Carpentry
06 4100 Architectural Wood Casework
06 8201 Glass-Fiber Reinforced Plastic Panels

Division 07 – Thermal & Moisture Protection
07 9005 Joint Sealers

Division 08 – Openings
08 1113 Steel Doors and Frames
08 1416 Flush Wood Doors
08 3100 Access Doors and Panels
08 3313 Coiling Counter Doors
08 3323 Overhead Coiling Doors
08 5113 Aluminum Windows
08 7100 Door Hardware
08 8000 Glazing
08 8300 Mirrors

Division 22 - Plumbing
22 0553 Identification for Plumbing Piping and Equipment
22 0719 Plumbing Piping Insulation
22 1005 Plumbing Piping
22 4000 Plumbing Fixtures

Division 23 - Heating, Ventilating, and Air-Conditioning (HVAC)
23 0553 Identification for HVAC Piping and Equipment
23 0593 Testing, Adjusting, and Balancing for HVAC
23 0713 Duct Insulation
23 3100 HVAC Ducts and Casings
23 3300 Air Duct Accessories
23 3700 Air Outlets and Inlets
23 7400 Heat Pump

Division 26 – Electrical
26 0500 Basic Electrical Materials and Methods
26 0513 Medium Voltage Cables
26 0519 Conductors and Cables
26 0526 Grounding and Bonding
26 0533 Raceway and Boxes
26 0536 Cable Tray
26 0553 Electrical Identification
26 0923 Lighting Control Devices
26 1213 Medium Voltage Transformers
26 1800 Overhead Electrical Distribution
26 1819 Lightning Arrestors, Medium Voltage
26 2416 Panelboards
26 2417 Load Centers
26 2726 Wiring Devices
26 2816 Safety Switches and Enclosed Circuit Breakers
26 3213 Standby Generator
26 3623 Automatic Transfer Switch
26 4113 Lightning Protection for Structures
26 4313 Surge Protective Devices (SPD)
26 5100 Lighting

Division 27 – Communications
27 1000 Communications

Division 28 – Electronic Safety and Security
28 3100 Fire Detection and Alarm

Division 31 – Earthwork
31 1000 Site Clearing
31 2000 Earth Moving
31 2136 Excavation
31 2323 Fill
31 2500 Erosion and Sedimentation Controls

NOTE: COMPLETE SPECIFICATIONS PACKAGE WILL BE INCLUDED WITH FINAL CONSTRUCTION PACKAGE

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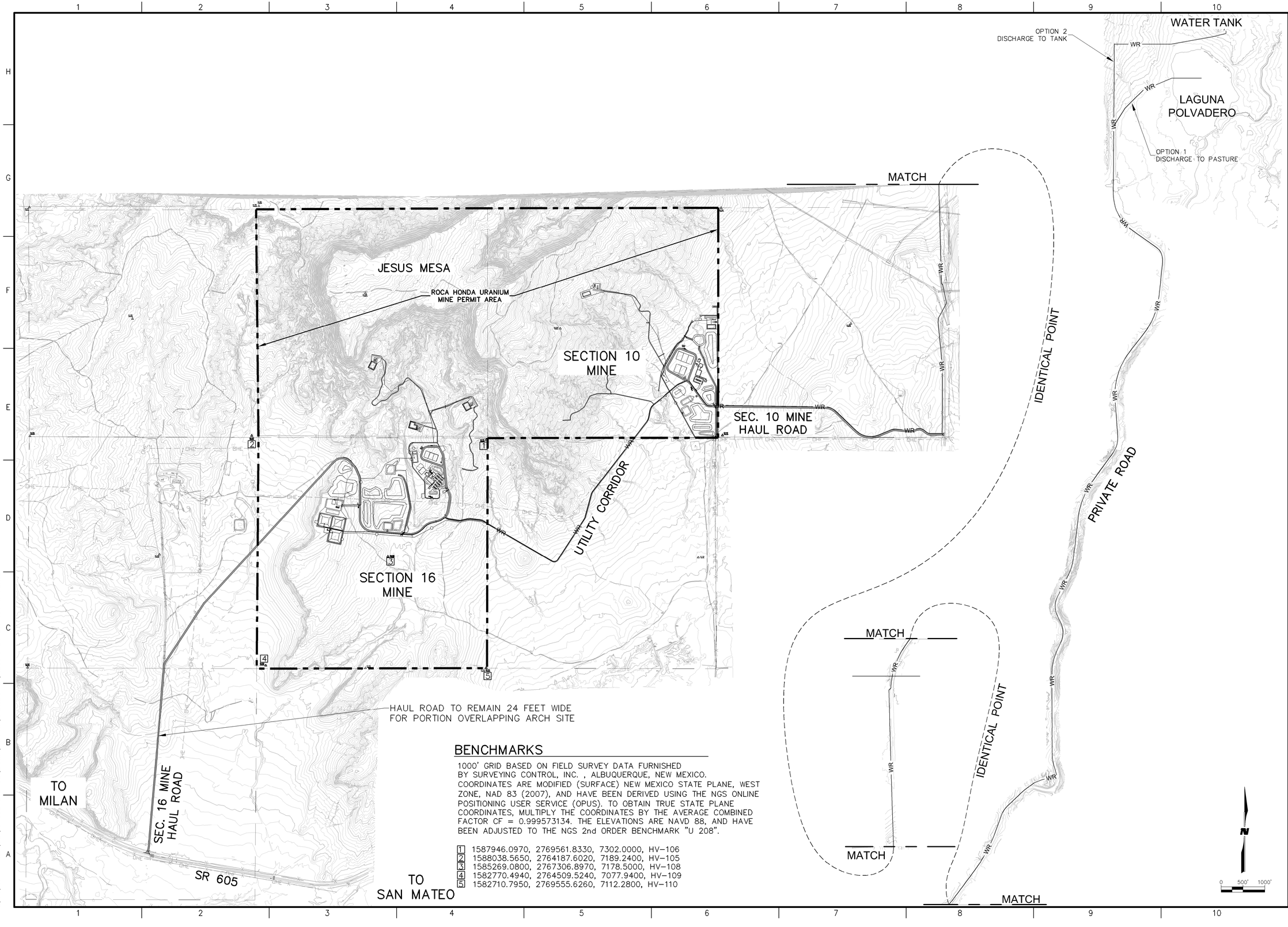
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SHEET TITLE
SPECIFICATIONS SHEET

SHEET NO:
SHEET 3 OF 85

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BENCHMARKS

1000' GRID BASED ON FIELD SURVEY DATA FURNISHED BY SURVEYING CONTROL, INC. , ALBUQUERQUE, NEW MEXICO. COORDINATES ARE MODIFIED (SURFACE) NEW MEXICO STATE PLANE, WEST ZONE, NAD 83 (2007), AND HAVE BEEN DERIVED USING THE NGS ONLINE POSITIONING USER SERVICE (OPUS). TO OBTAIN TRUE STATE PLANE COORDINATES, MULTIPLY THE COORDINATES BY THE AVERAGE COMBINED FACTOR CF = 0.999573134. THE ELEVATIONS ARE NAVD 88, AND HAVE BEEN ADJUSTED TO THE NGS 2nd ORDER BENCHMARK "U 208".

1. 1587946.0970, 2769561.8330, 7302.0000, HV–106
2. 1588038.5650, 2764187.6020, 7189.2400, HV–105
3. 1585269.0800, 2767306.8970, 7178.5000, HV–108
4. 1582770.4940, 2764509.5240, 7077.9400, HV–109
5. 1582710.7950, 2769555.6260, 7112.2800, HV–110

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SHEET TITLE

ROCA HONDA MINES
OVERALL SITE
PLAN

SHEET NO:

SHEET 4 OF 85

M:\VFS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 04 OVERALL SITE.DWG
9/27/11

SEE SHEET 12

VENT SHAFT

INSET

SEE INSET THIS SHEET

TO VENT SHAFT

VENT SHAFT

VENT SHAFT

MAINTENANCE ROAD (12' WIDTH)

FUELING BAY

FUEL DEPOT

SEE SHEET 11

ORE BAYS

WATER TANK

SEE SHEET 12

EMERGENCY GENERATOR

POWER STATION

TRUCK WASH

MINE SHAFT
N 1,587,219.00
E 2,768,275.00

SEE SHEET 8

SEE SHEET 6

RETENTION POND

DETENTION BASIN

ORE BAYS

HOIST BUILDING

TOPDRESSING

MINE RESCUE

ASSAY/SCALE BUILDING

500 GAL LPG TANK

TOPDRESSING

WAREHOUSE

MINE OPERATIONS BUILDING

2000 GAL LPG TANK

SUB-BASE ROCK

SHAFT MATERIAL

EQUIPMENT MAINTENANCE SHOP AND OFFICE

HELICOPTER PAD

RETENTION POND

MINE WATER TREATMENT PLANT

NON-ORE

SANITARY WASTEWATER TREATMENT FACILITY (UNDERGROUND)

TOPDRESSING

HE STORAGE MAGAZINES

SEE SHEET 10

UTILITY CORRIDOR

SEE SHEET 7

RETENTION POND

PUMP HOUSE

HAUL ROAD

SEE SHEET 9

OHE

0 100' 200'

M:\IFS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 05 MINE 16 OVERALL SITE.DWG

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SHEET TITLE

SECTION 16 MINE OVERALL SITE PLAN

SHEET NO:

SHEET 5 OF 85

HAUL ROAD
(36' WIDTH)

8' HIGH
CHAIN LINK FENCE

TOPDRESSING

TOPDRESSING

PROTECT EXISTING
MONITORING WELL S-4
(TO REMAIN UNDISTURBED)

EXISTING OVERHEAD
ELECTRIC LINE TO
REMAIN UNDISTURBED

EQUIPMENT MAINTENANCE
SHOP AND OFFICE

DIRT ROAD

OHE

0 25' 50'

M:\IFS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 05A STOCKPILE 16 SITES.DWG

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ROCA HONDA MINES
SECTION 9, 10 & 16
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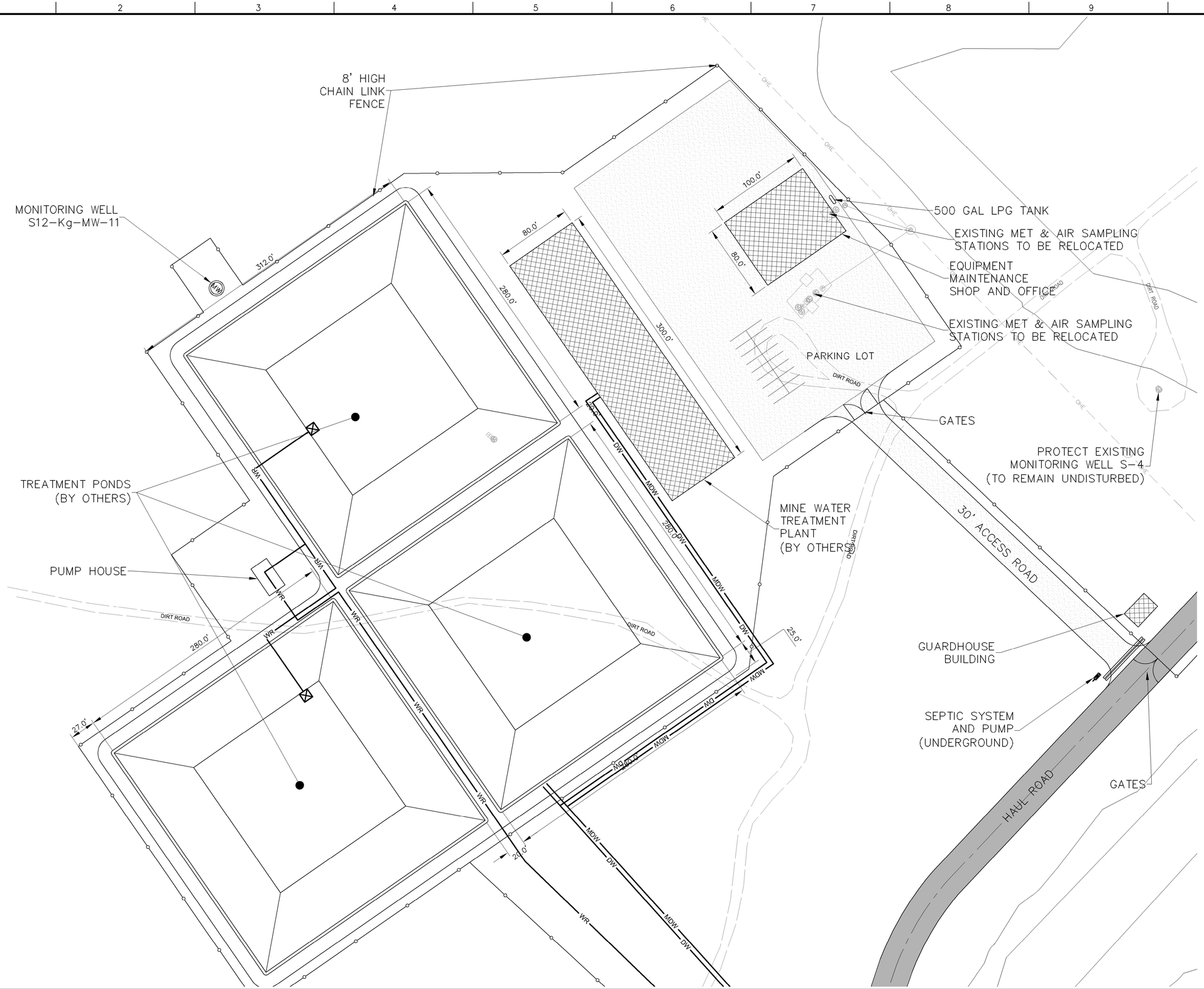
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SHEET TITLE

SECTION 16 MINE
NW STOCKPILE
SITE PLAN

SHEET NO:

SHEET 6 OF 85



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SHEET TITLE

SECTION 16 MINE
WTP
SITE PLAN

SHEET NO:

SHEET 7 OF 85

DETENTION BASIN

DEWATERING WELL
RHR–JMW–DW4

8' HIGH
CHAIN LINK FENCE

DRAINAGE CHANNEL

HAUL ROAD
(36' WIDTH)

SUB–BASE ROCK

SHAFT MATERIAL

EXISTING OVERHEAD ELECTRIC
TO REMAIN UNDISTURBED

0 25' 50'

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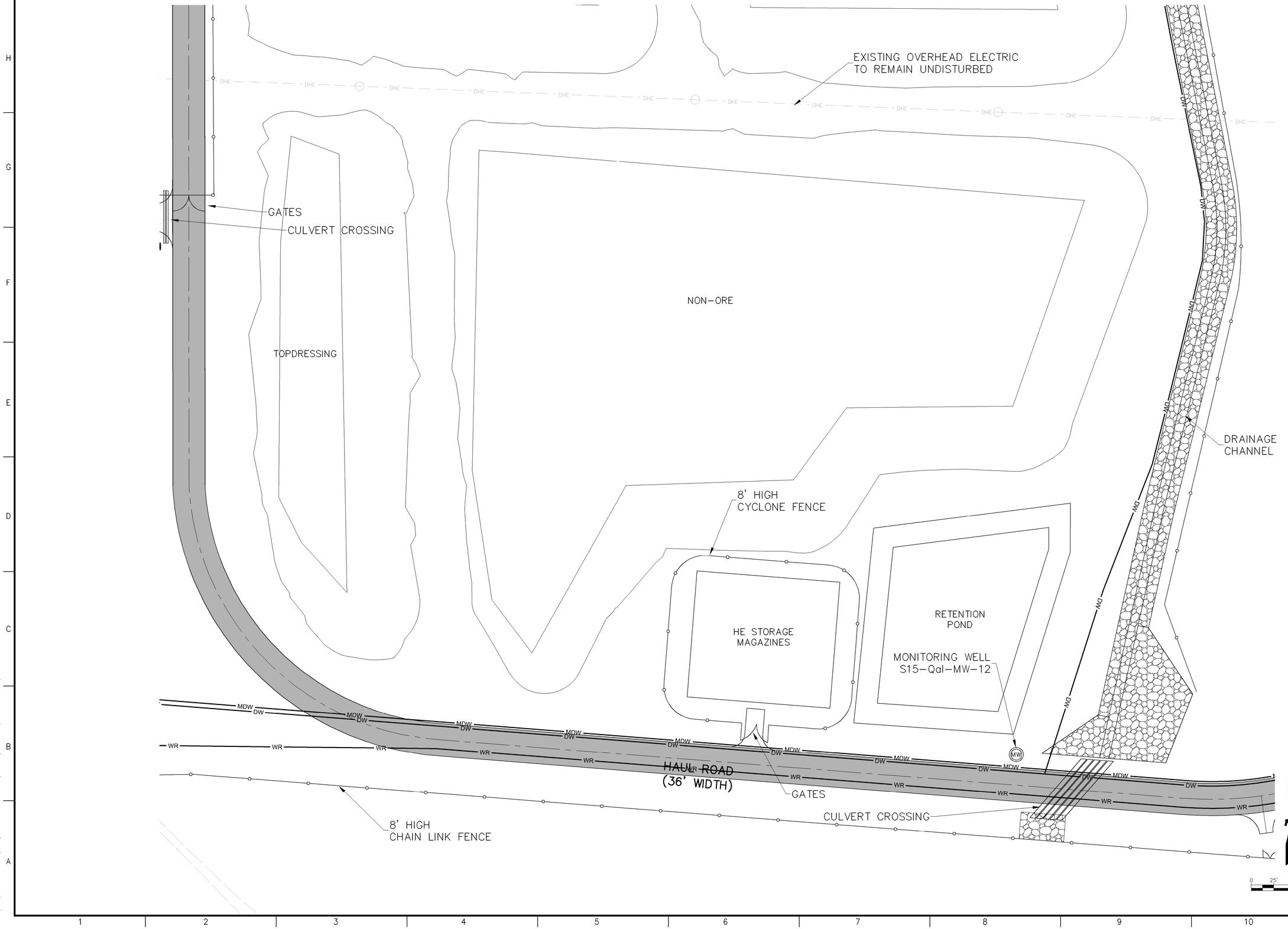
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SHEET TITLE

SECTION 16 MINE
NORTH STOCKPILE
SITE PLAN

SHEET NO:

SHEET 8 OF 85



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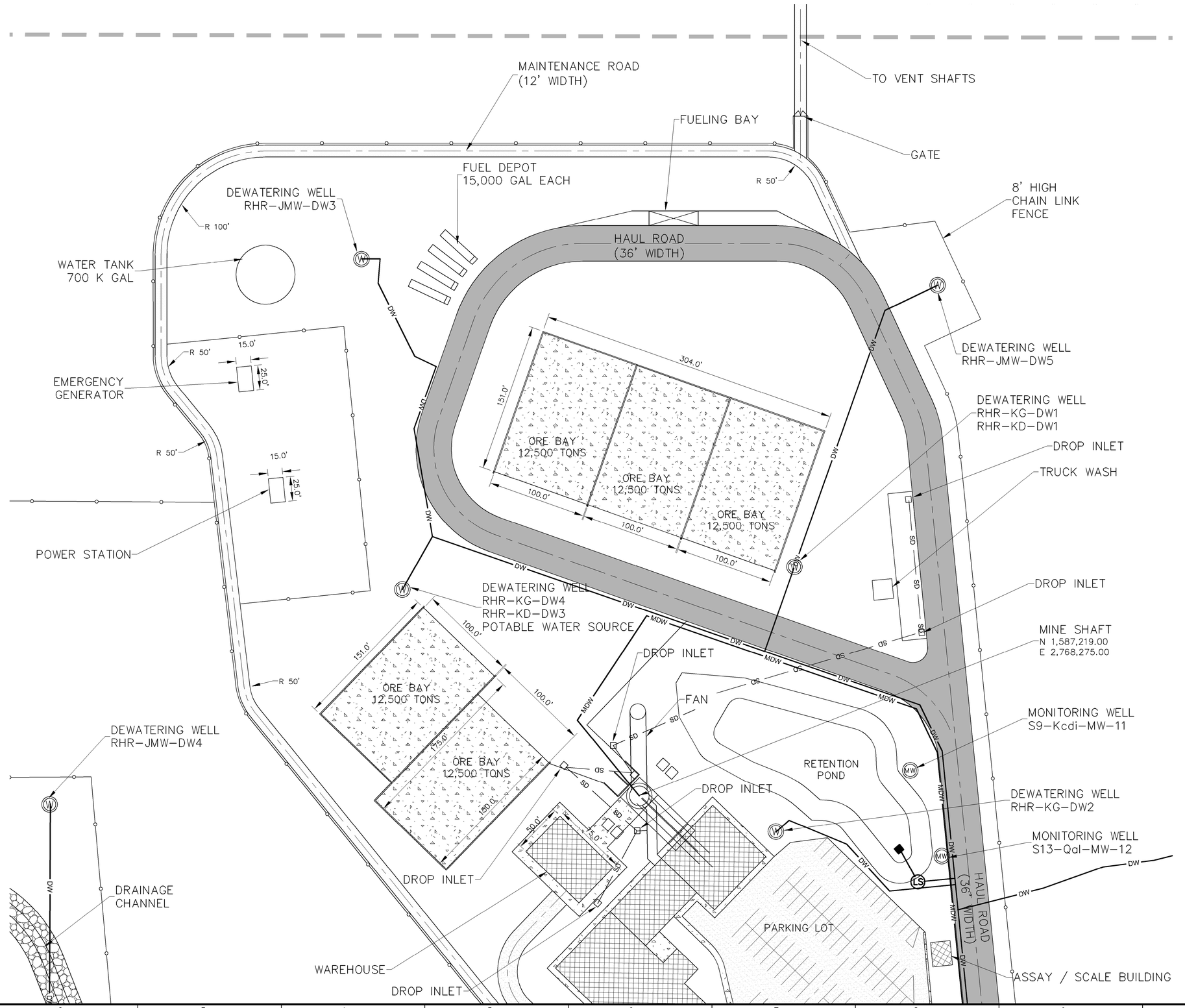
SECTION 16 MINE
SOUTH STOCKPILE
SITE PLAN

SHEET NO:

SHEET 9 OF 85

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9/27/11



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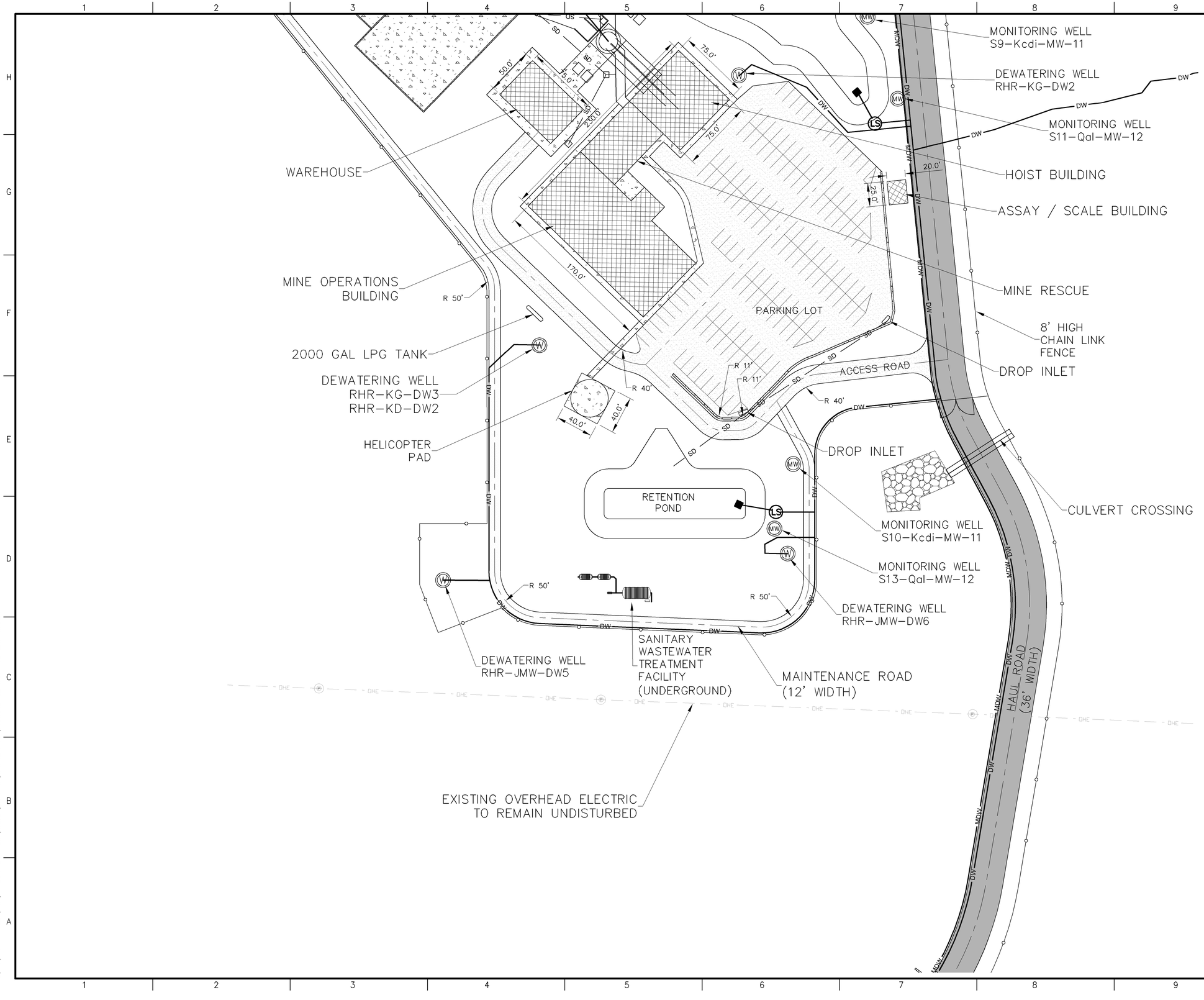
SHEET TITLE

SECTION 16 MINE
NORTH FACILITY
SITE PLAN

SHEET NO:

SHEET 10 OF 85

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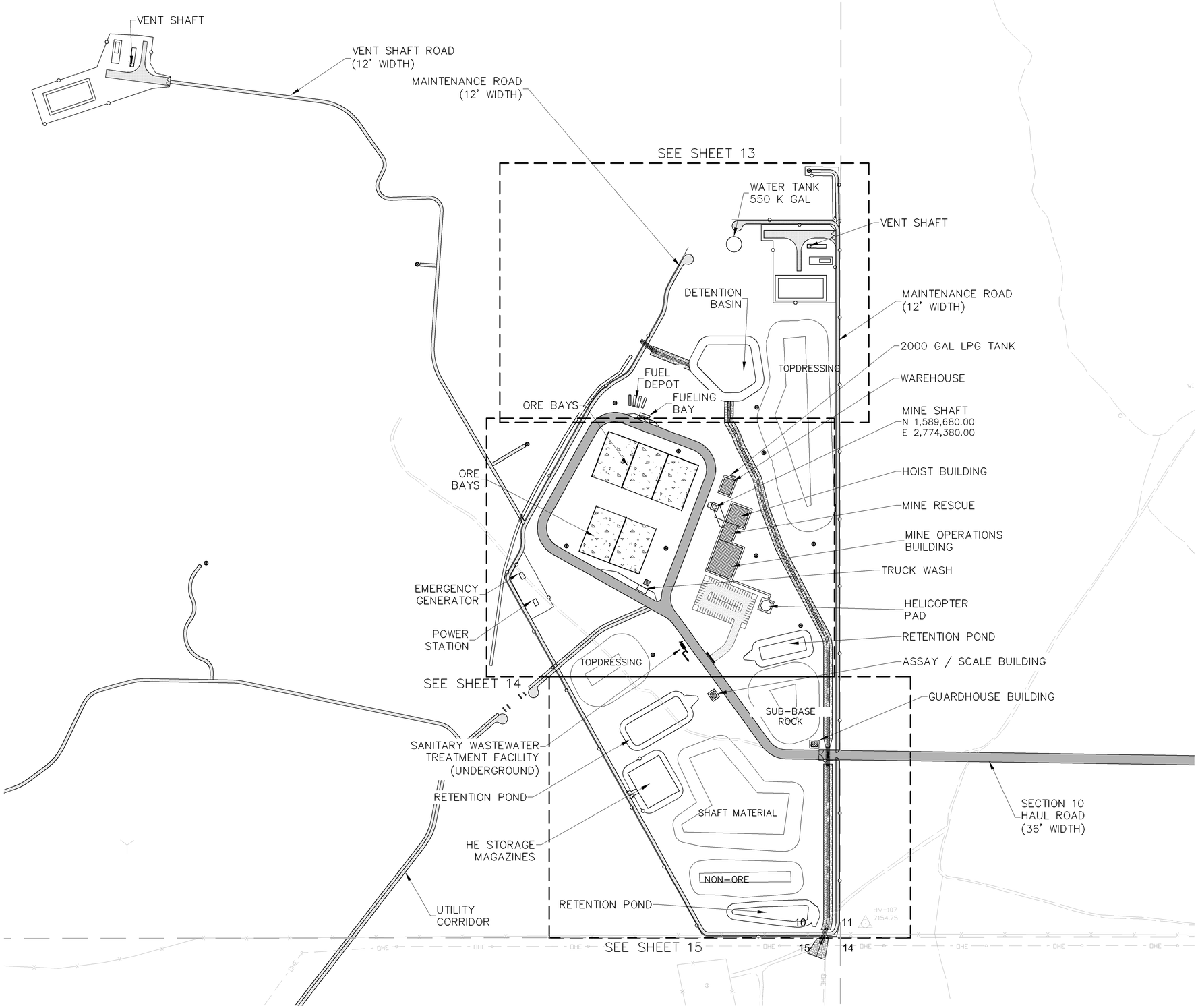
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SHEET TITLE

SECTION 16 MINE SOUTH FACILITY SITE PLAN

SHEET NO:

SHEET 11 OF 85



Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
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WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

SEAL

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NOT FOR CONSTRUCTION

PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE

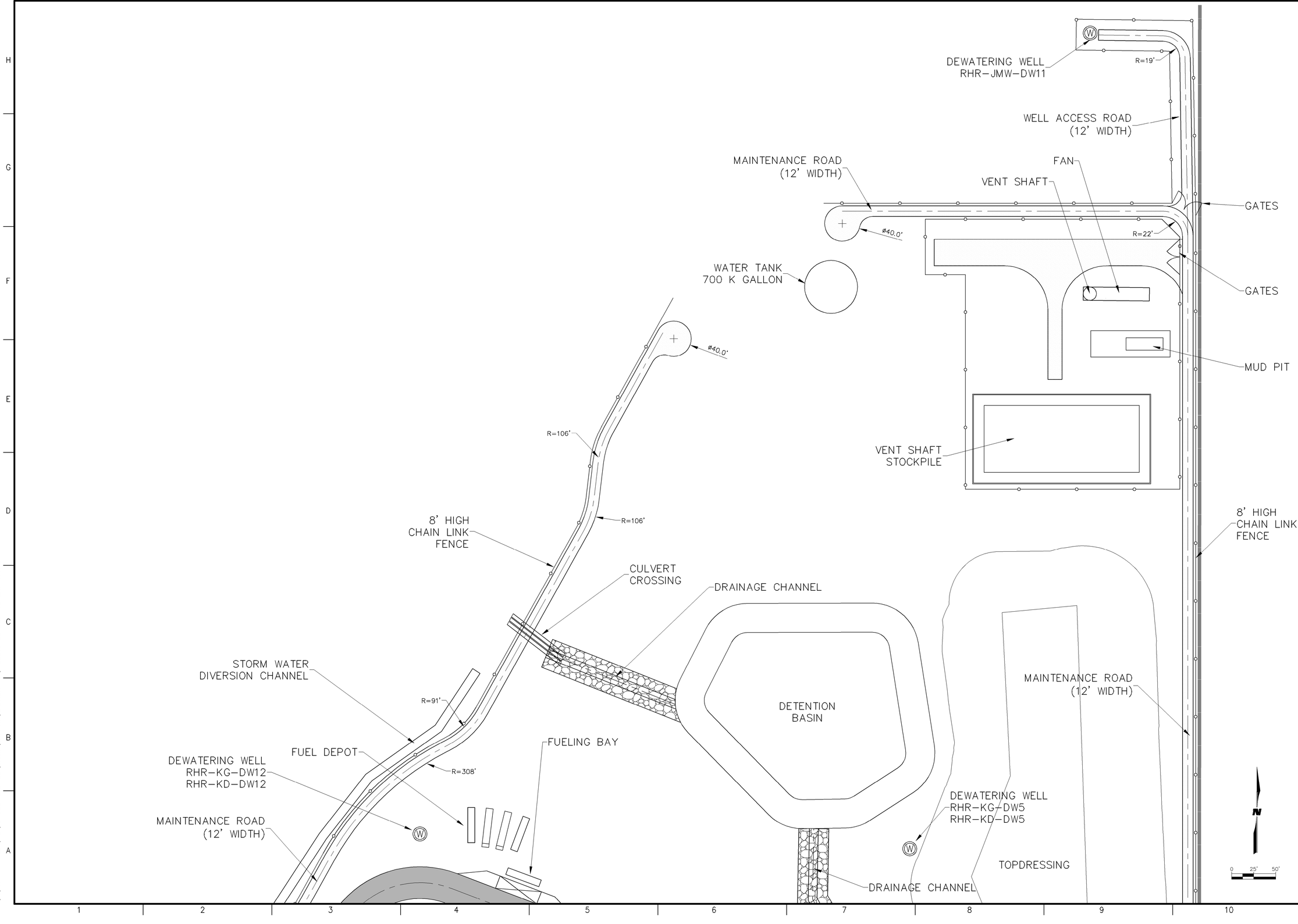
SECTION 10 MINE
OVERALL
SITE PLAN

SHEET NO:

SHEET 12 OF 85

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1/6/12



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STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

BY	DESCRIPTION	DATE	REV.

PROJECT NO:	1160001900
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SHEET TITLE

SECTION 10 MINE
SITE PLAN

SHEET NO:

SHEET 13 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 10\1160019 05 MINE 10 SITE 1.DWG

1/6/12

DEWATERING WELL
RHR-JMW-DW9

STORM WATER
DIVERSION CHANNEL

8' HIGH
CHAIN LINK
FENCE

TO VENT SHAFTS

MAINTENANCE ROAD
(12' WIDTH)

GATE

R=91'

R=97'

R=82'

HAUL ROAD
(36' WIDTH)

ORE BAY
12,500 TONS

ORE BAY
12,500 TONS

ORE BAY
12,500 TONS

ORE BAY
12,500 TONS

ORE BAY
12,500 TONS

187.5'

125.0'

123.7'

DEWATERING WELL
RHR-KG-DW13
RHR-KD-DW13

DEWATERING WELL
RHR-KG-DW11
RHR-KD-DW11

EMERGENCY
GENERATOR

R=22'

POWER STATION

TRUCK WASH AREA

DEWATERING
WELL
RHR-KG-DW10
RHR-KD-DW10

SANITARY
WASTEWATER
TREATMENT
FACILITY
(UNDERGROUND)

GATES

UTILITY CORRIDOR

TOPDRESSING

DEWATERING WELL
RHR-KG-DW9
RHR-KD-DW9

MAINTENANCE ROAD
(12' WIDTH)

TOPDRESSING

2000 GAL LPG TANK

DEWATERING WELL
RHR-KG-DW6
RHR-KD-DW6

WAREHOUSE

MINE SHAFT
N 1,589,680.00
E 2,774,380.00

8' HIGH
CHAIN LINK
FENCE

HOIST BUILDING

MINE RESCUE

MINE OPERATIONS
BUILDING

DEWATERING WELL
RHR-JMW-DW10

DEWATERING WELL
RHR-KG-DW7
RHR-KD-DW7
POTABLE WATER
SOURCE

SIDEWALK

DRAINAGE
CHANNEL

PARKING

HELICOPTER
PAD

DEWATERING WELL
RHR-KG-DW8
RHR-KD-DW8

RETENTION
POND

42.0'

62.0'

75.0'

30.0'

280.0'

130.0'

100.0'

0 25' 50'

N

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 10\1160019 05 MINE 10 SITE 2.DWG

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PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
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SHEET TITLE

SECTION 10 MINE
SITE PLAN

SHEET NO:

SHEET 14 OF 85

ASSAY / SCALE BUILDING
RETENTION POND
SUB-BASE ROCK
DRAINAGE CHANNEL
HAUL ROAD (36' WIDTH)
GUARDHOUSE BUILDING
GATES
CULVERT CROSSING
HE STORAGE MAGAZINES
MAINTENANCE ROAD (12' WIDTH)
SHAFT MATERIAL
8' HIGH CYCLONE FENCE
8' HIGH CHAIN LINK FENCE
NON-ORE
RETENTION POND
20.0'
25.0'
141.2'
159.9'
R=82'
R=22'
SD
DW
WR

0 25' 50'

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 10\1160019 05 MINE 10 SITE 3.DWG
1/6/12

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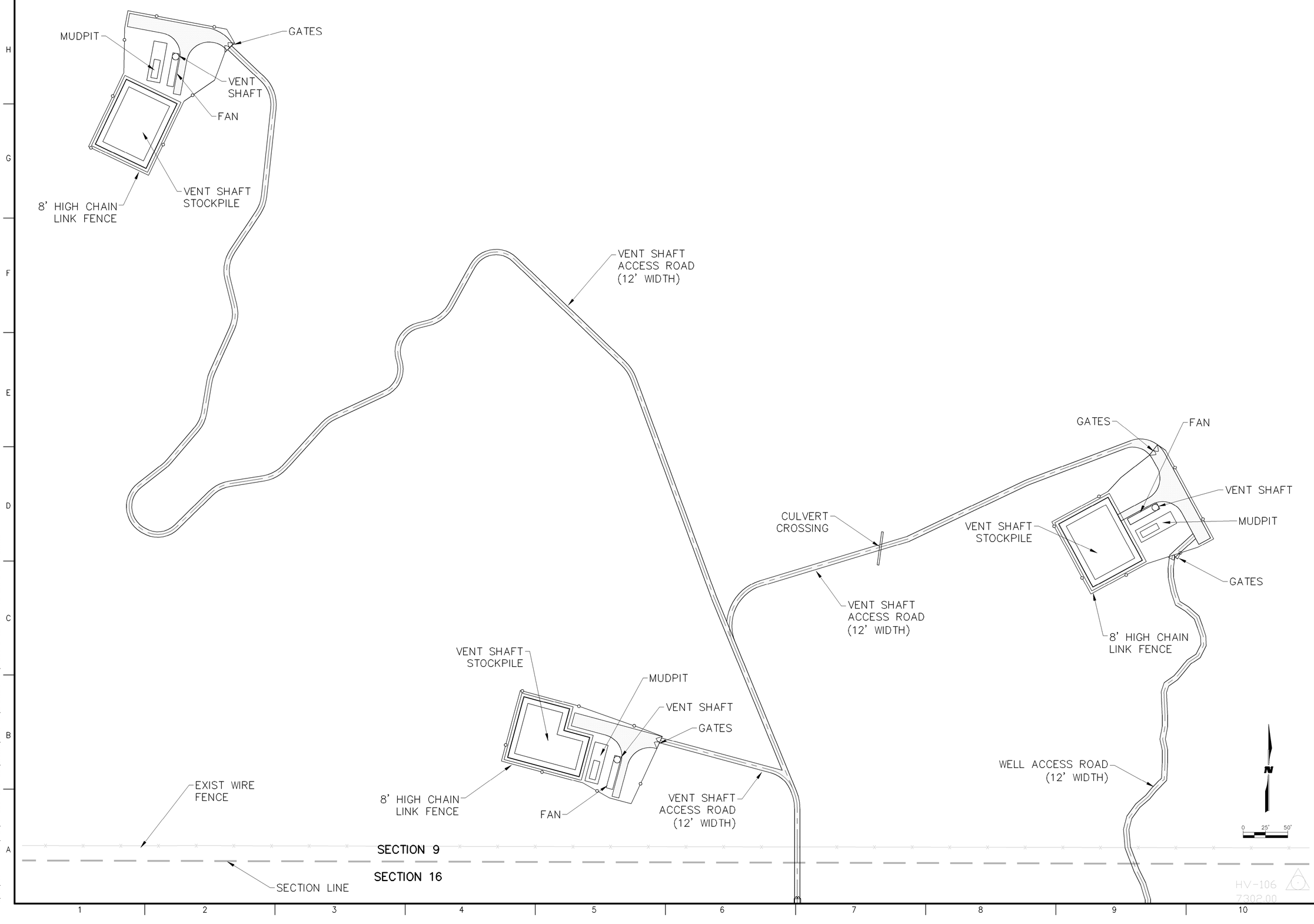
PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
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CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
SECTION 10 MINE SITE PLAN

SHEET NO:
SHEET 15 OF 85



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SECTION 9, 10 & 16
SITE DEVELOPMENT

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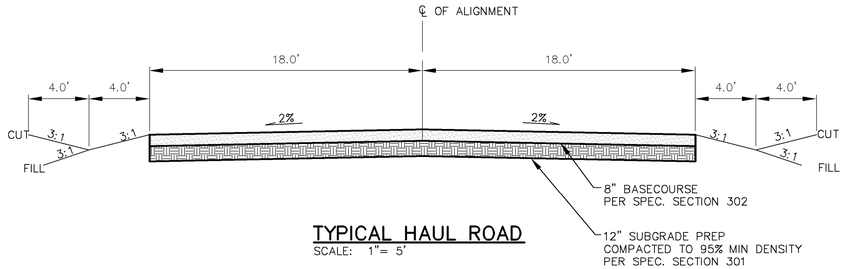
PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
SECTION 9
SITE PLAN

SHEET NO:
SHEET 16 OF 85

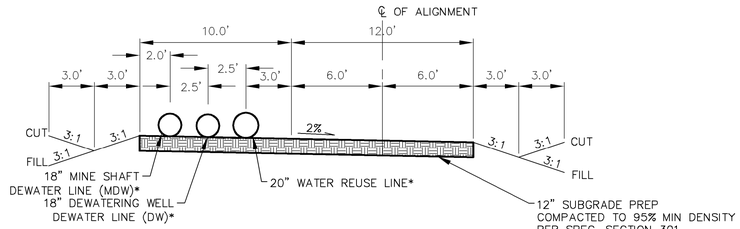
HV-106
7302.00

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9/27/11



TYPICAL HAUL ROAD

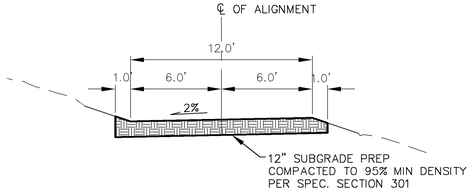
SCALE: 1"= 5'



TYPICAL UTILITY CORRIDOR ROAD

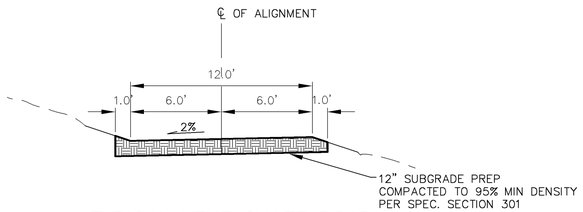
SCALE: 1"= 5'

*SPACING DEVICE TO ENSURE PIPES STAY WITH SHOWN SPACING IS TBD IN 90% DESIGN



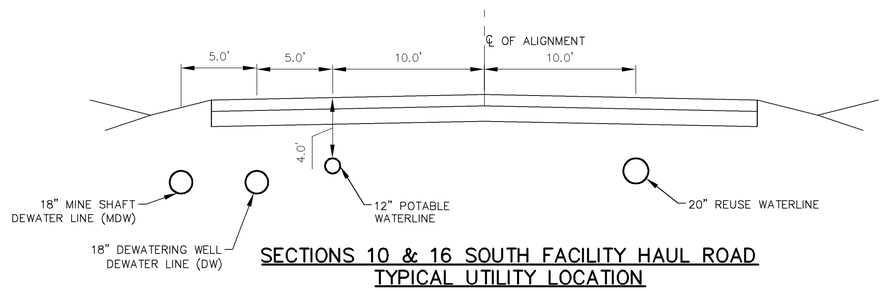
TYPICAL MAINTENANCE ROAD

SCALE: 1"= 5'



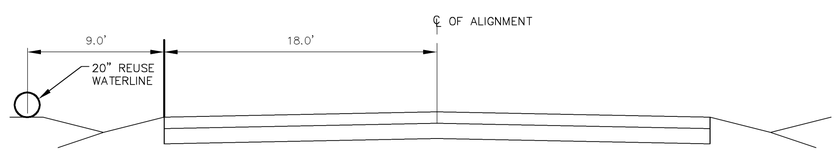
TYPICAL VENT SHAFT ROAD

SCALE: 1"= 5'



SECTIONS 10 & 16 SOUTH FACILITY HAUL ROAD TYPICAL UTILITY LOCATION

SCALE: 1"= 5'



SECTIONS 10 & 11 HAUL ROAD TYPICAL UTILITY LOCATION

SCALE: 1"= 5'

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ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

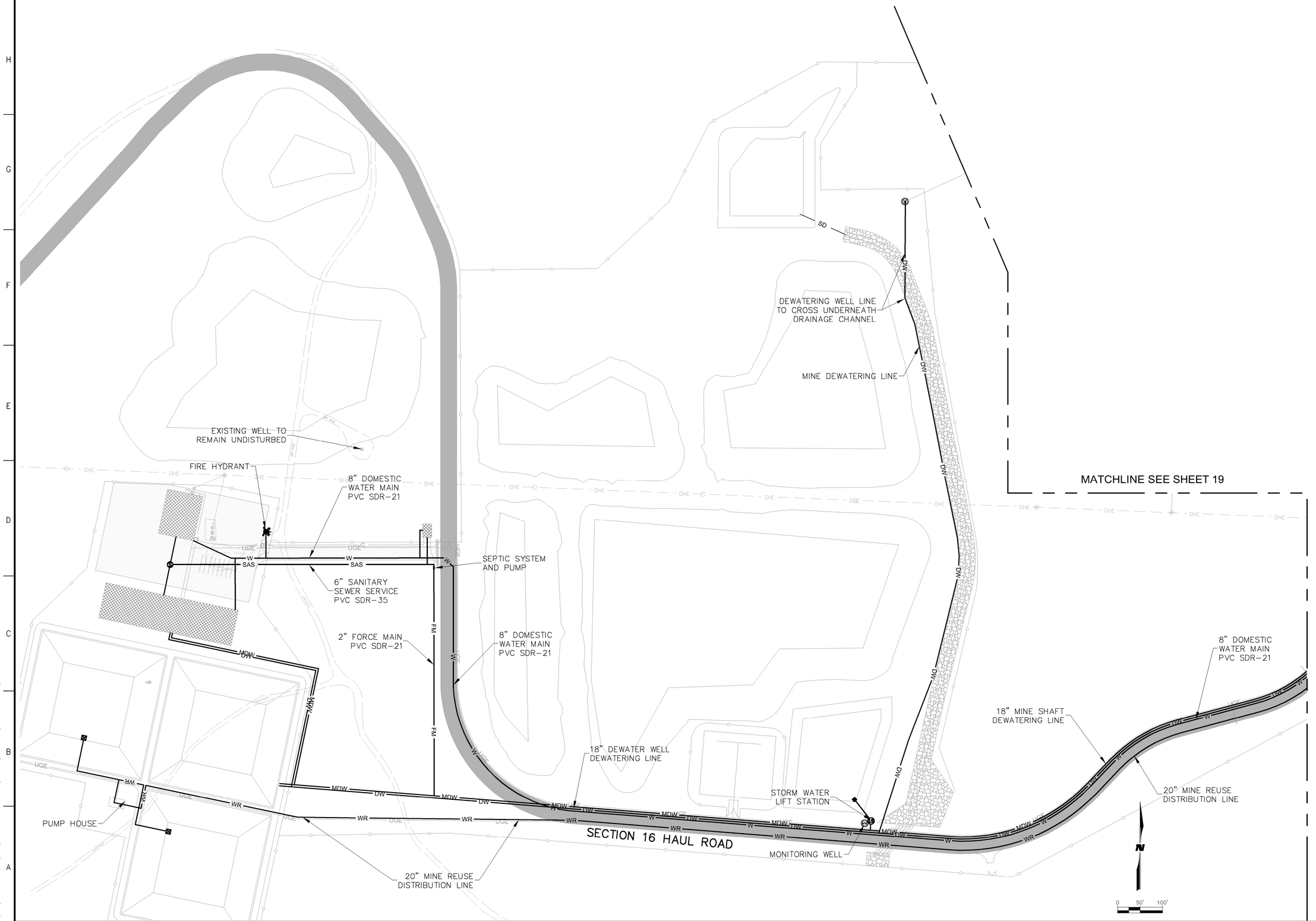
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PROJECT NO:	1160001900
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DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
TYPICAL SECTIONS

SHEET NO:
SHEET 17 OF 85

9/27/11 M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 06 TYP SEC.DWG



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SECTION 9, 10 & 16
SITE DEVELOPMENT

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SHEET TITLE

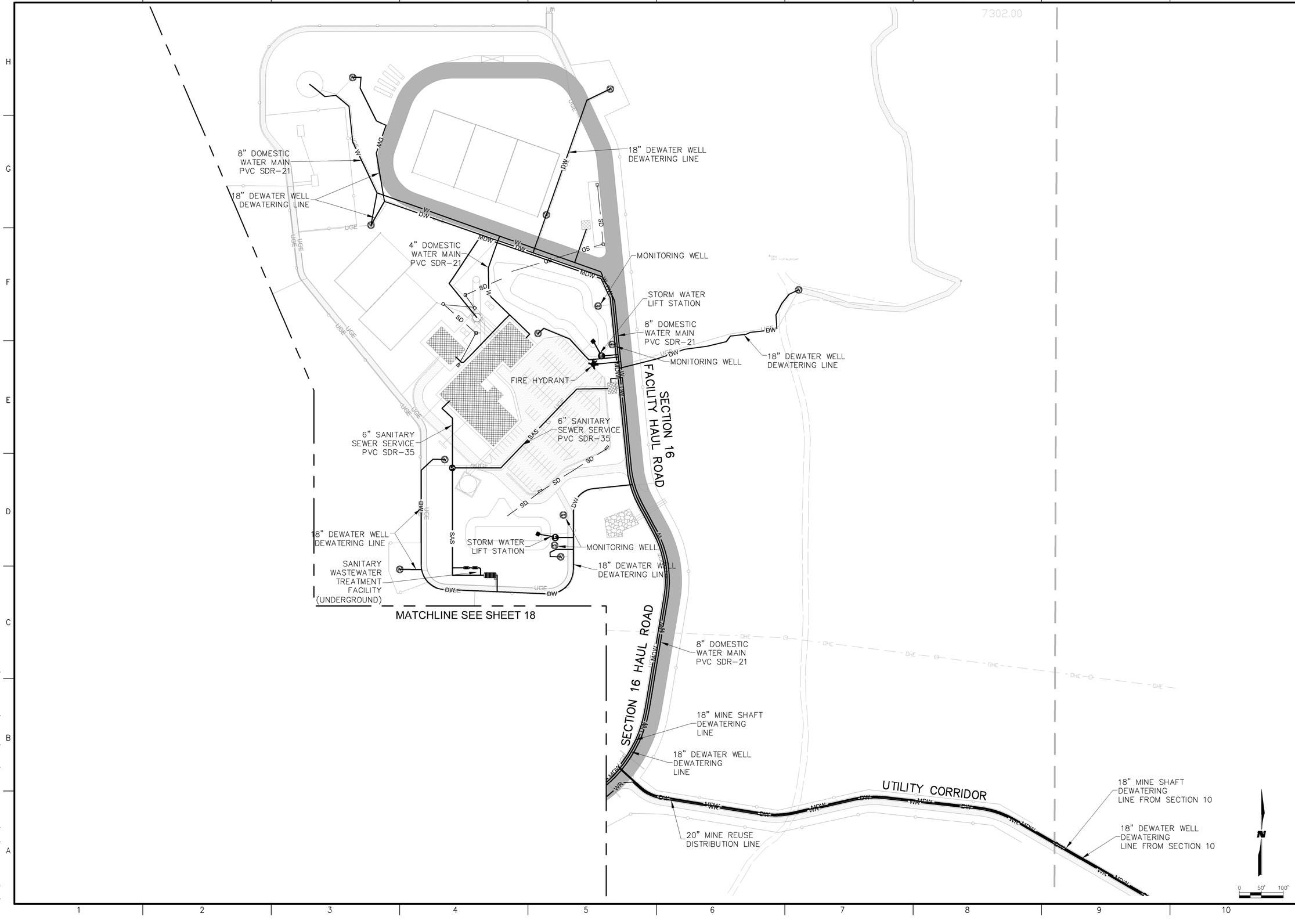
SECTION 16
OVERALL UTILITY
PLAN

SHEET NO:

SHEET 18 OF 85

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STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

	BY	DESCRIPTION	DATE	REV.

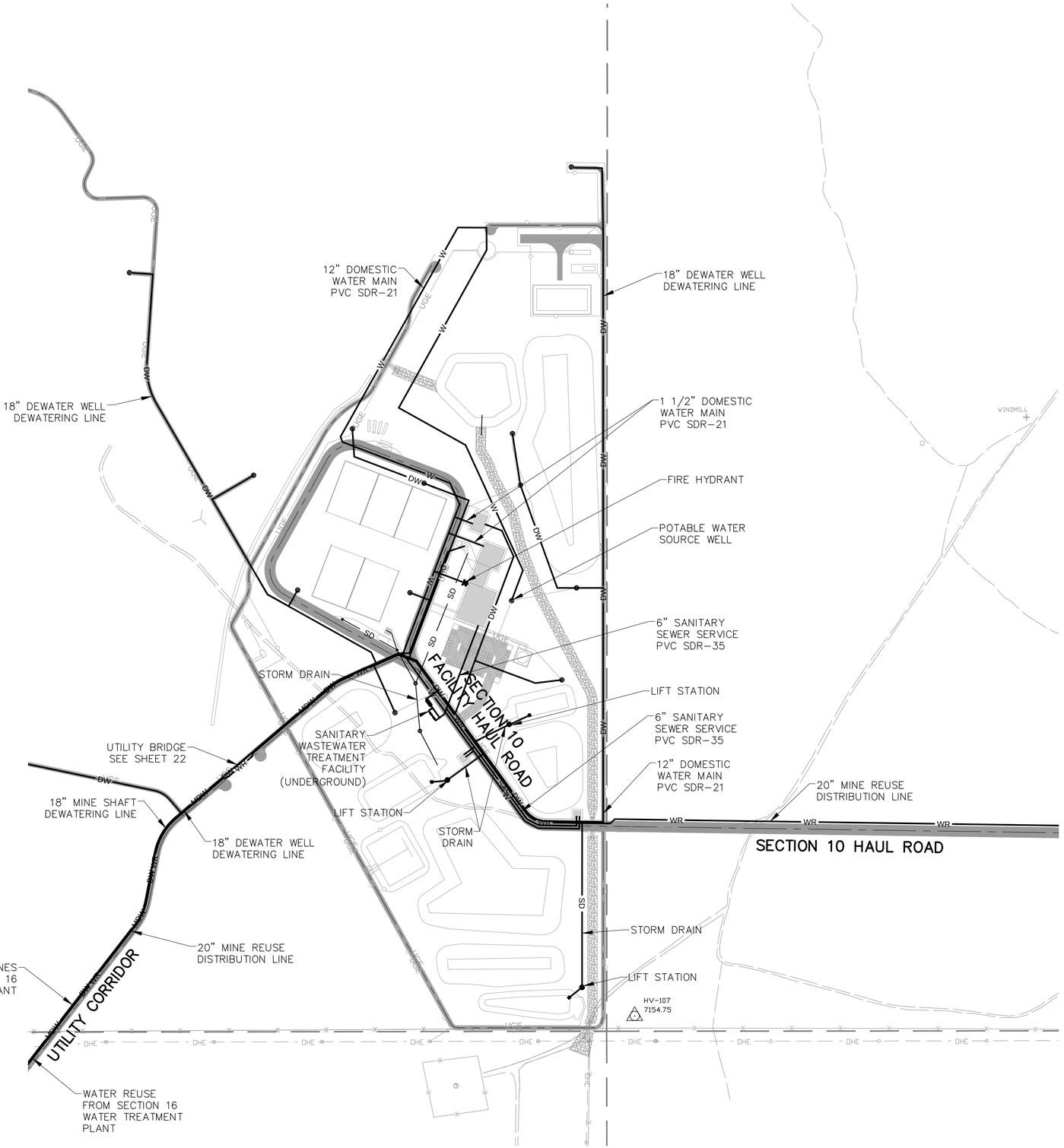
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DRAWN BY:	STAFF
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DATE:	JANUARY, 2012

SHEET TITLE

SECTION 16
OVERALL UTILITY PLAN

SHEET NO:

SHEET 19 OF 85



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SECTION 9, 10 & 16
SITE DEVELOPMENT

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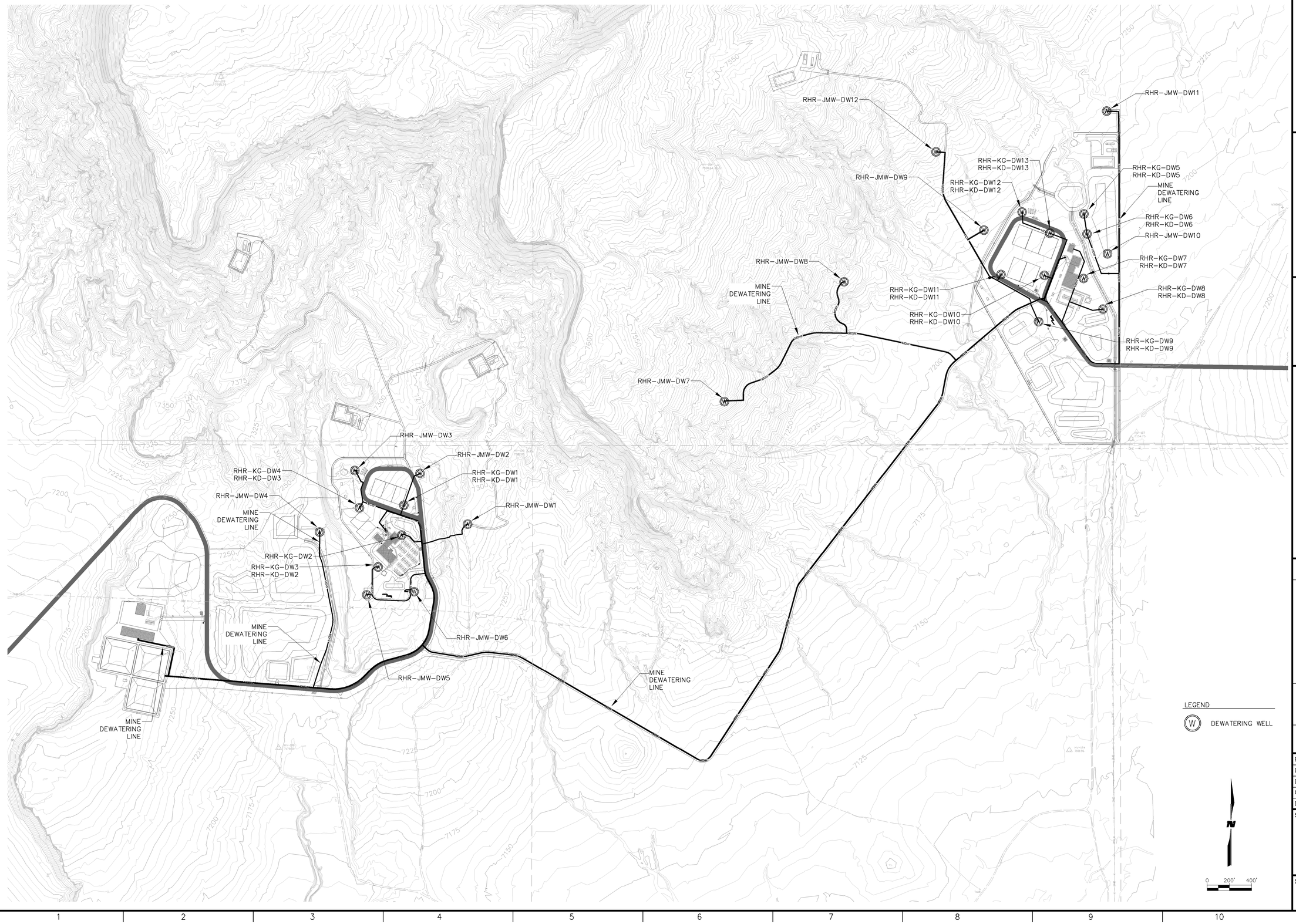
SHEET TITLE

SECTION 10
OVERALL UTILITY
PLAN

SHEET NO:

SHEET 20 OF 85

1/9/12 M:\FS\11-600-019-00\CADD\SHEETS\SECTION 10\1160019 09 UTILITY PLAN.DWG



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SITE DEVELOPMENT

NO.	DESCRIPTION	DATE	BY

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SHEET TITLE

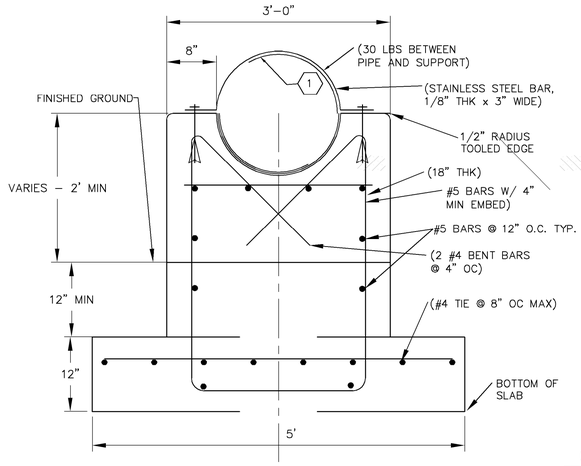
MINE DEWATERING PLAN

SHEET NO:

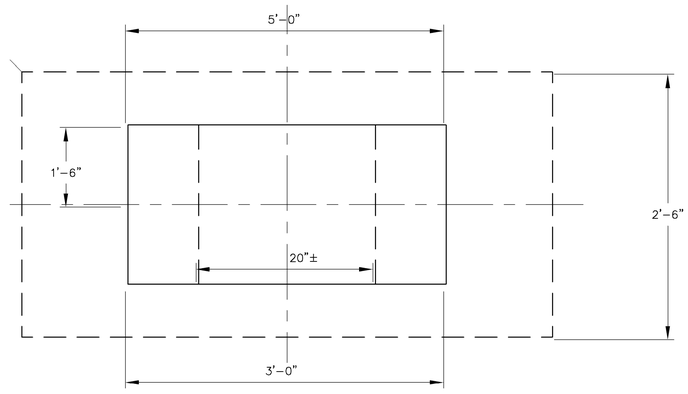
SHEET 21 OF 85

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9/27/11



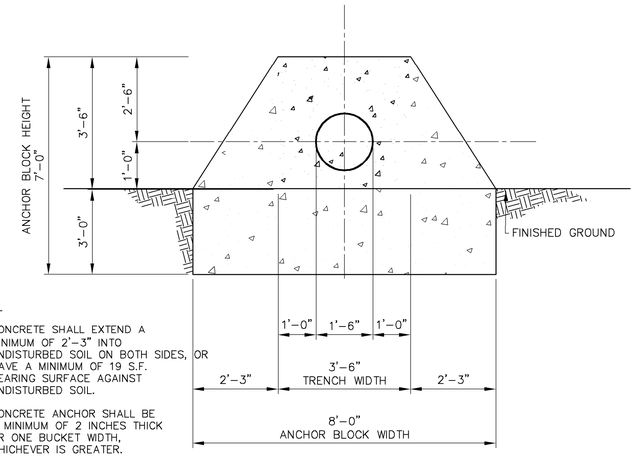
CONCRETE PIPE SUPPORT A
NTS



CONC PIPE SUPPORT A
NTS

GENERAL NOTES

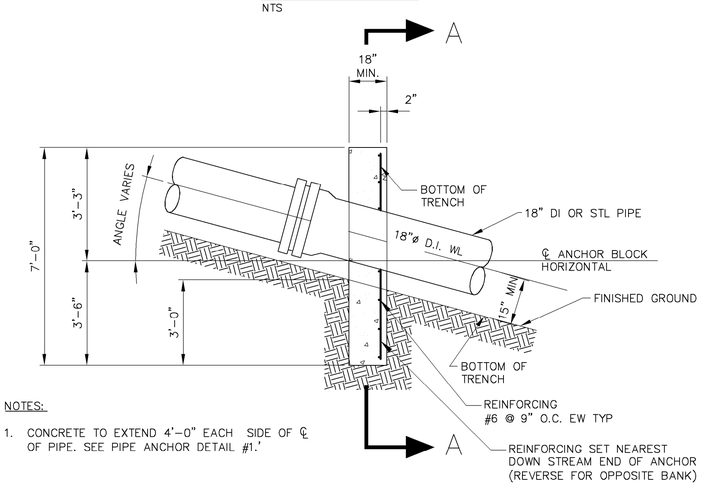
1. DISTANCES BETWEEN SUPPORTS ARE DEPENDENT UPON TERRAIN AND PIPING MATERIAL SELECTED.



NOTES:

1. CONCRETE SHALL EXTEND A MINIMUM OF 2'-3" INTO UNDISTURBED SOIL ON BOTH SIDES, OR HAVE A MINIMUM OF 19 S.F. BEARING SURFACE AGAINST UNDISTURBED SOIL.
2. CONCRETE ANCHOR SHALL BE A MINIMUM OF 2 INCHES THICK OR ONE BUCKET WIDTH, WHICHEVER IS GREATER.

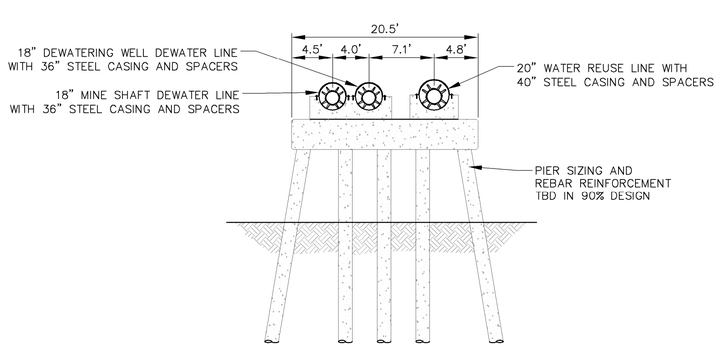
SECTION A–A
NTS



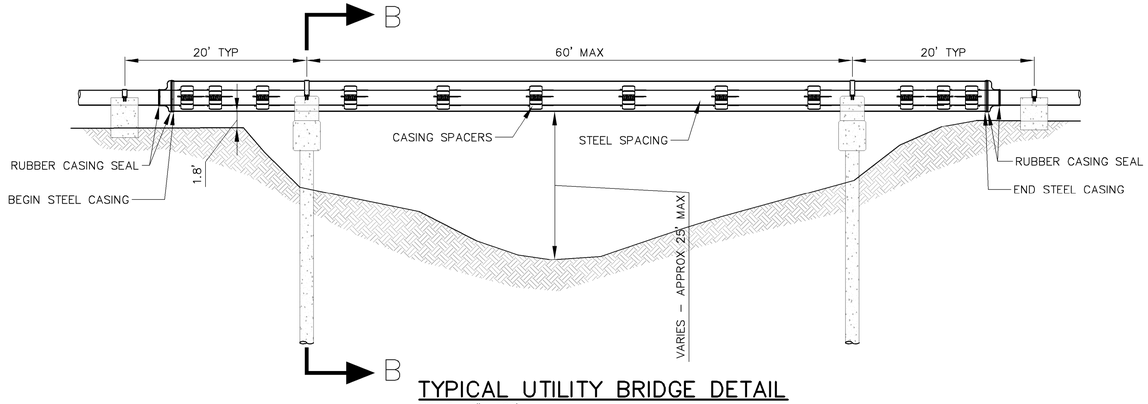
NOTES:

1. CONCRETE TO EXTEND 4'–0" EACH SIDE OF ℄ OF PIPE. SEE PIPE ANCHOR DETAIL #1.'

CONCRETE PIPE SUPPORT B (FOR SLOPED CONDITION)
NTS



SECTION B–B
SCALE: 1"= 100'



TYPICAL UTILITY BRIDGE DETAIL
SCALE: 1"= 100'

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PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

	BY	DESCRIPTION	DATE	REV.

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
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DATE:	JANUARY, 2012

SHEET TITLE

WATER REUSE PIPE DETAILS

SHEET NO:

SHEET 22 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 10B WATER REUSE PL-DTLS.DWG

9/27/11

TOPDRESSING

TOPDRESSING

SECTION 16 HAUL ROAD

DETENTION BASIN

SD

SUBBASE ROCK

SHAFT MATERIAL

OHE

EQUIPMENT MAINTENANCE SHOP AND OFFICE

GUARDHOUSE BLDG

UGE

G

W

SAS

500 GAL LPG TANK

MINE WTP BLDG

SEPTIC SYSTEM & PUMP

FM

MDW

DW

TOPDRESSING

NON-ORE

DISCHARGE HOLDING POND

PLANT FEED SURGE POND

WR

PUMP HOUSE

HE STORAGE MAGS

RETENTION POND

DISCHARGE HOLDING POND

8' HIGH CHAIN LINK FENCE (TYP)

0 50' 100'

N

M:\VFS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 10C DRY UTIL PLAN-S16.DWG

9/27/11

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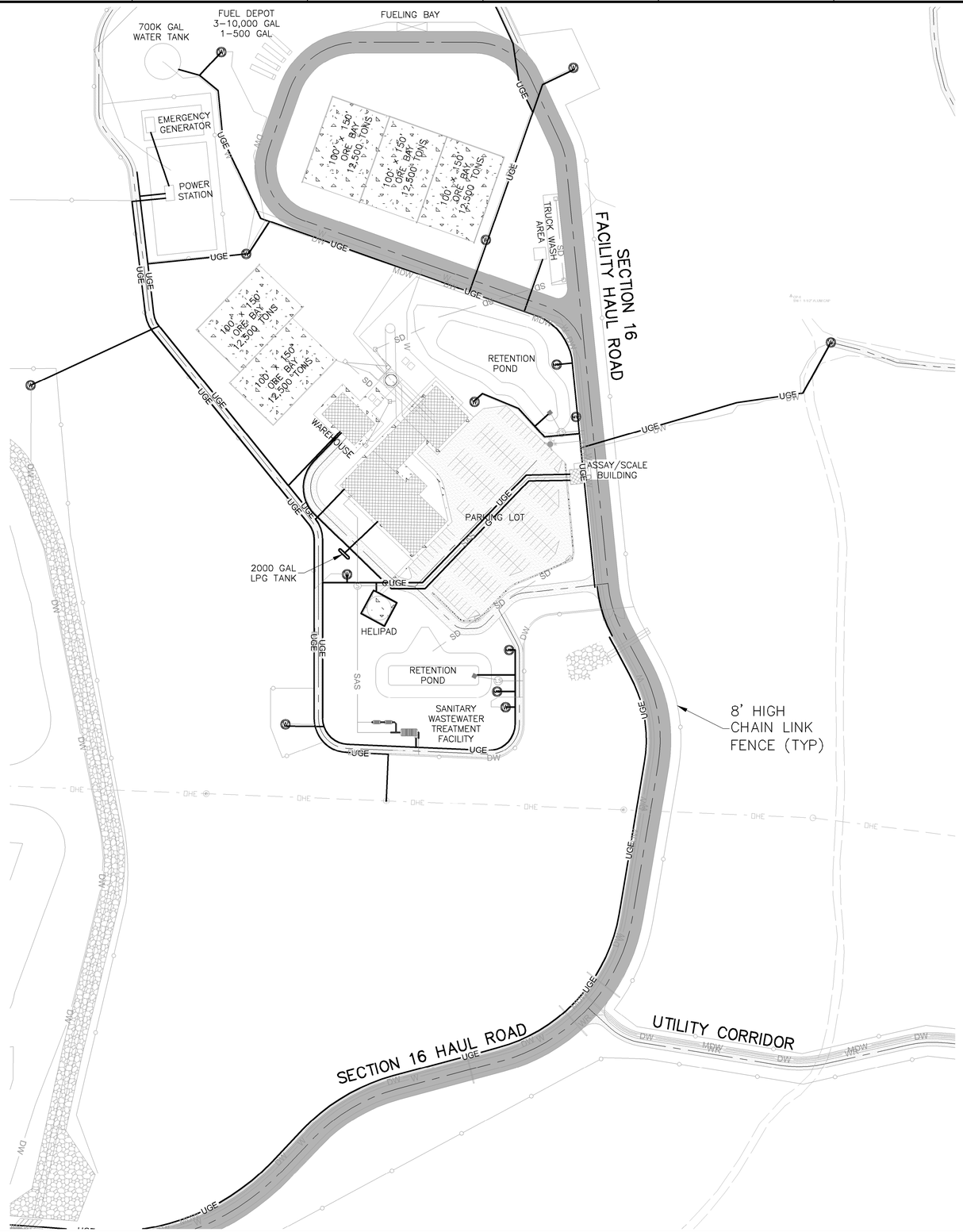
PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE

SECTION 16
OVERALL DRY
UTILITY PLAN

SHEET NO:

SHEET 23 OF 85



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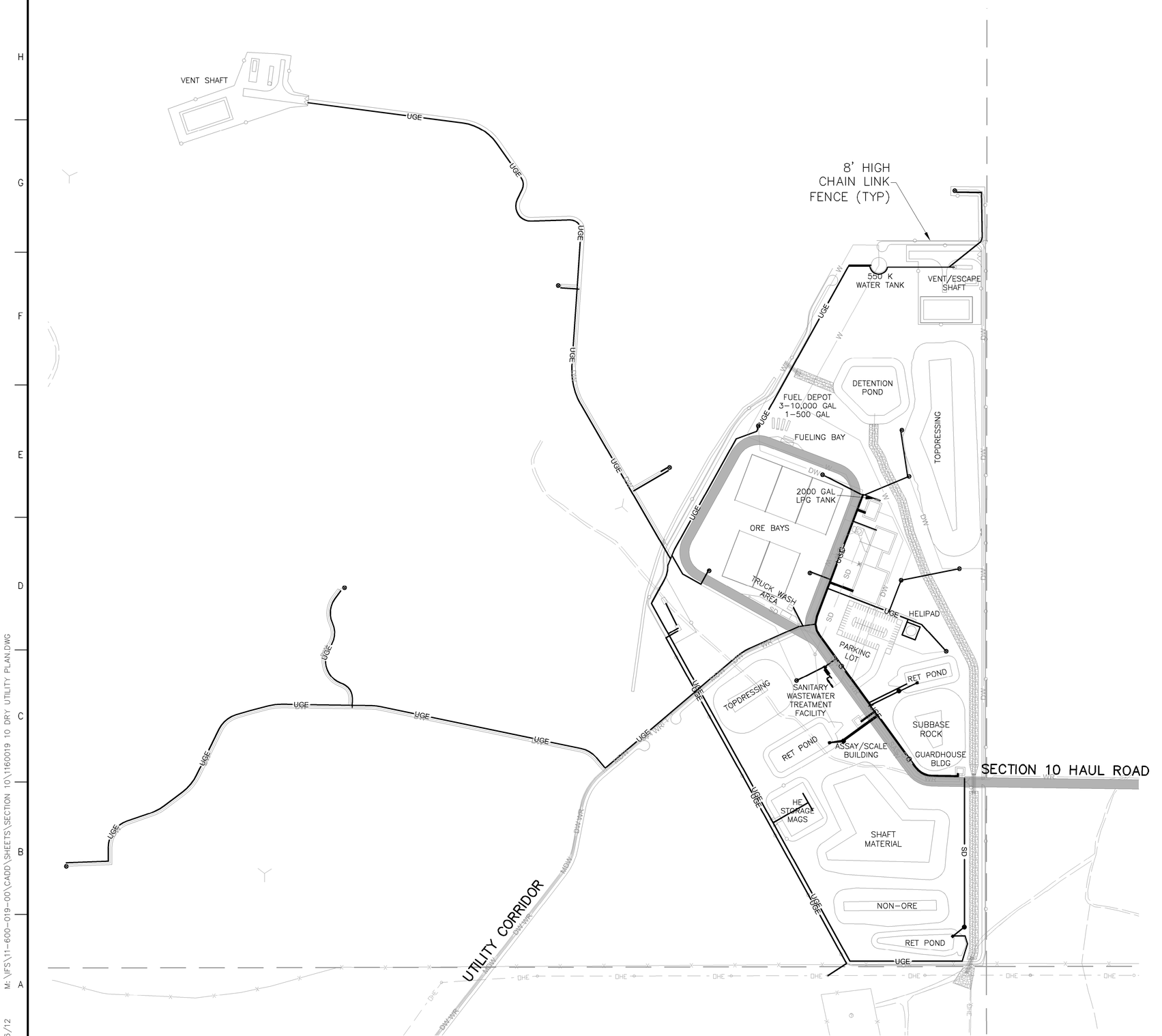
SHEET TITLE

SECTION 16
OVERALL DRY
UTILITY PLAN

SHEET NO:

SHEET 24 OF 85

9/27/11 M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 10C DRY UTIL PLAN-S16.DWG



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BY	DESCRIPTION	DATE	REV.

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DATE:	JANUARY, 2012

SHEET TITLE

SECTION 10
OVERALL
DRY UTILITY PLAN

SHEET NO:

SHEET 25 OF 85

VENT SHAFT

VENT SHAFT

VENT SHAFT

UGE

0 50' 100'

N

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PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

REV.	DATE	DESCRIPTION	BY

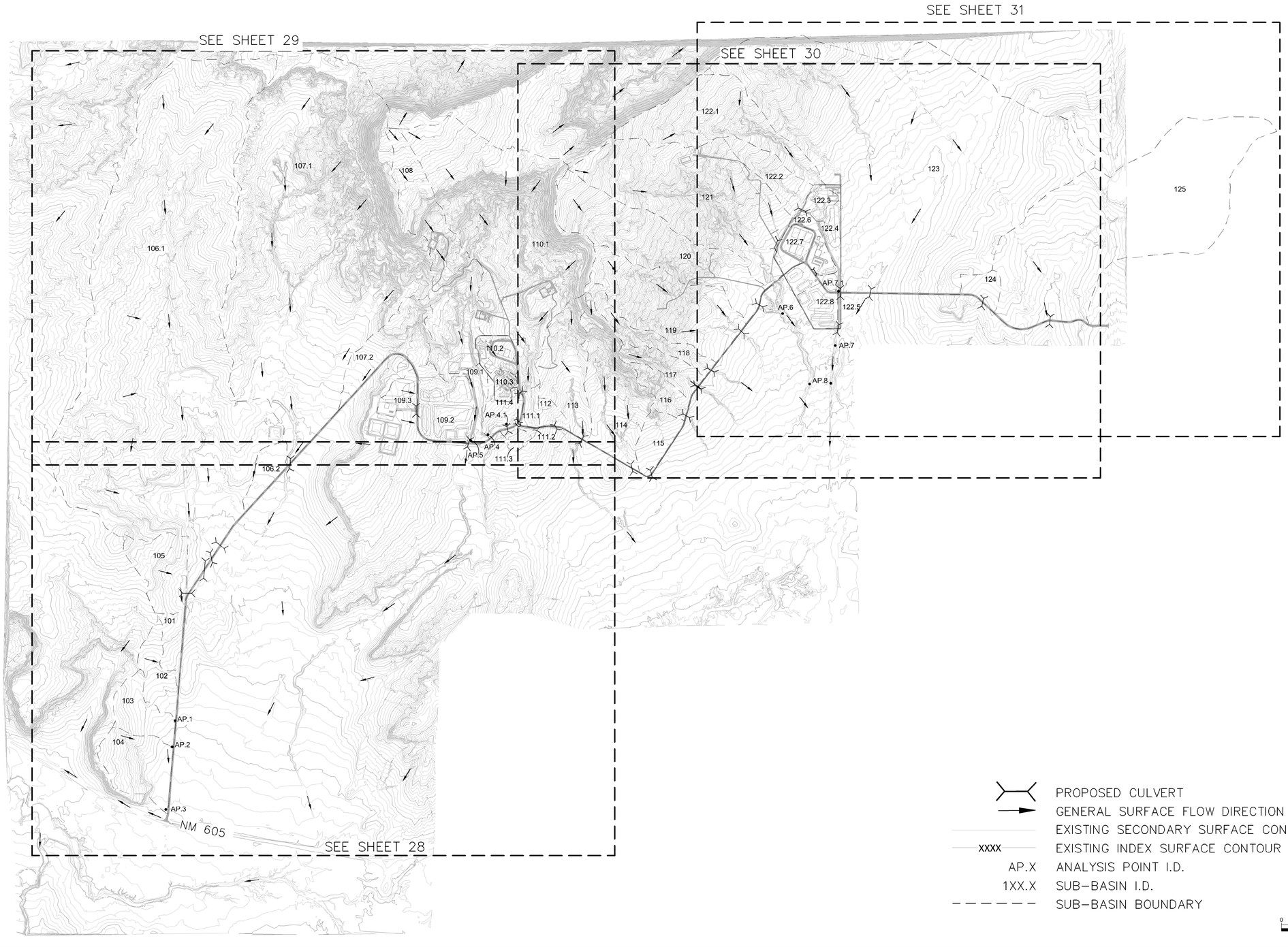
PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE

SECTION 9
OVERALL DRY
UTILITY PLAN

SHEET NO:

SHEET 26 OF 85



PROPOSED CULVERT
GENERAL SURFACE FLOW DIRECTION
EXISTING SECONDARY SURFACE CONTOUR
XXXX EXISTING INDEX SURFACE CONTOUR
AP.X ANALYSIS POINT I.D.
1XX.X SUB-BASIN I.D.
SUB-BASIN BOUNDARY

0 500' 1000'

N

Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

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NOT FOR
CONSTRUCTION

SEAL

PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

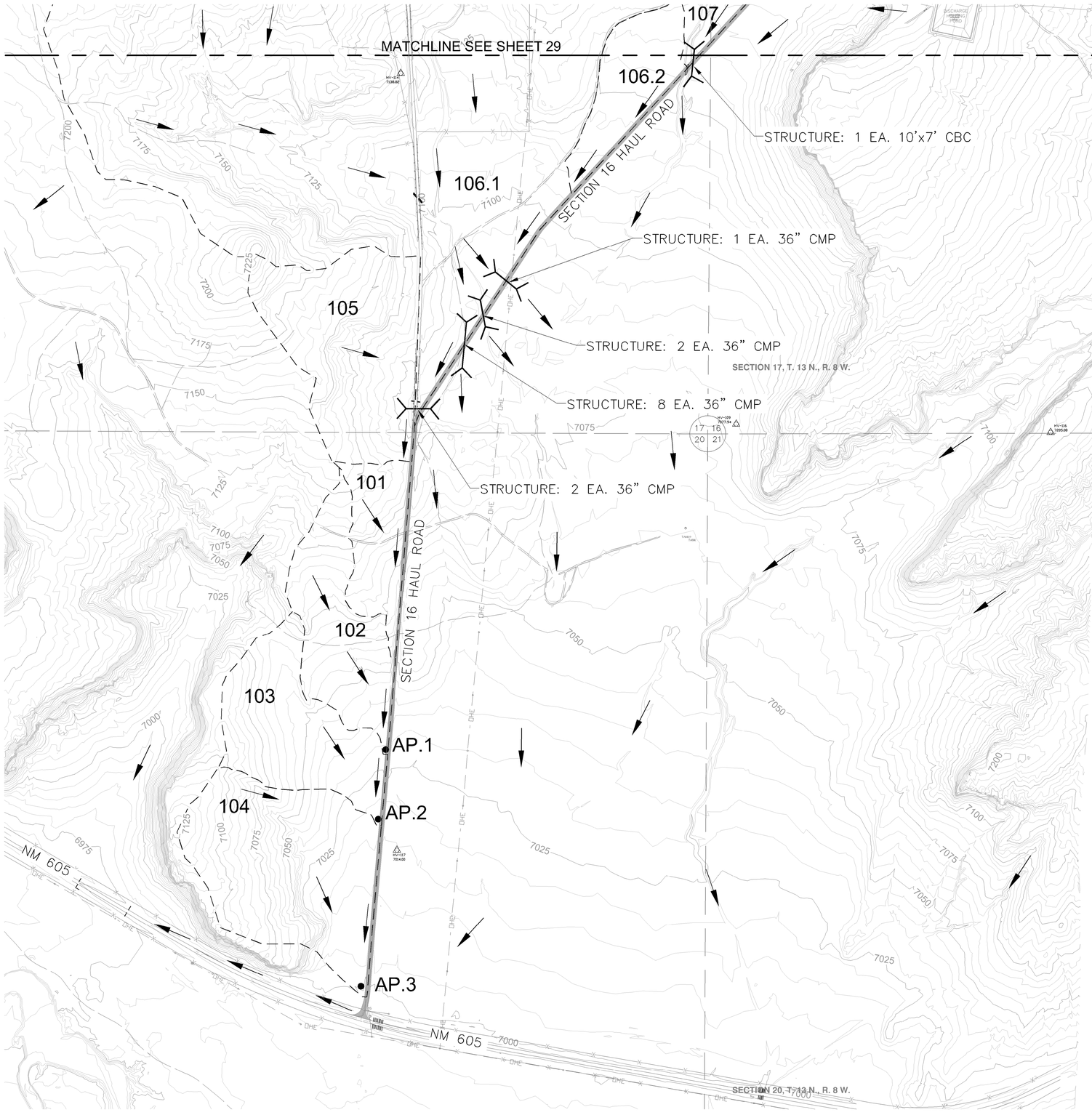
	DESCRIPTION	DATE	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
PROPOSED
DRAINAGE BASIN
INDEX SHEET

SHEET NO:
SHEET 27 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 11 BASIN PLAN INDEX.DWG
9/27/11



Developed Conditions				Existing Conditions		
SubBasin (ID)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)
101	10.8	42	1.46	10.8	42	1.46
102	18.9	64	2.55	18.9	64	2.55
103	21.9	79	2.96	21.9	79	2.96
104	35.4	98	4.77	35.4	98	4.77
105	31.6	102	3.68	31.6	102	3.68
106.1	614.0	572	65.69			
106.2	12.5	23	0.95			
107.1	464.6	722	56.33			
107.2	35.2	92	4.27			

Analysis Point (ID)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)
AP.1	29.7	105	4.01	29.7	105	4.01
AP.2	51.7	181	6.97	51.7	180	6.97
AP.3	87.0	277	11.74	87.0	275	11.74
AP.4	231.3	389	27.10	246.7	409	28.77
AP.4.1	218.7	382	25.55			
AP.5	326.2	400	38.20	389.3	690	45.40

LEGEND

- PROPOSED CULVERT
- EXISTING CULVERT
- GENERAL SURFACE FLOW DIRECTION
- EXISTING SECONDARY SURFACE CONTOUR
- XXXX EXISTING INDEX SURFACE CONTOUR
- AP.X ANALYSIS POINT AND I.D.
- 1XX.X SUB-BASIN I.D.
- SUB-BASIN BOUNDARY

0 200' 400'

Roca Honda Resources LLC.
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WILSON & COMPANY
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Albuquerque, NM 87109
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SEAL

PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
PROPOSED DRAINAGE BASIN PLAN

SHEET NO:
SHEET 28 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 11A BASIN PLAN 1.DWG
9/27/11

Developed Conditions				Existing Conditions		
SubBasin (ID)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)
106.1	614.0	572	65.69			
106.2	12.5	23	0.95			
107.1	464.6	722	56.33			
107.2	35.2	92	4.27			
108	82.8	185	9.65	82.4	184	9.61
109.1	12.2	44	1.48			
109.2	31.4	120	3.82			
109.3	10.5	40	1.28			
110.1	208.0	376	24.25			
110.2	11.6	58	1.89			
110.3	4.6	23	0.74			
111.1	5.6	21	0.68			
111.2	1.1	4	0.13			
111.3	4.0	15	0.48			
111.4	12.6	48	1.54			
112	5.5	20	0.65	5.5	20	0.65
113	42.9	112	4.54	42.9	112	4.54

Junction (ID)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)
AP.4	231.3	389	27.1	246.7	409	28.77
AP.4.1	218.7	382	25.55			
AP.5	326.2	400	38.2	389.3	690	45.40

LEGEND

- PROPOSED CULVERT
- EXISTING CULVERT
- GENERAL SURFACE FLOW DIRECTION
- EXISTING SECONDARY SURFACE CONTOUR
- XXXX EXISTING INDEX SURFACE CONTOUR
- AP.X ANALYSIS POINT AND I.D.
- 1XX.X SUB-BASIN I.D.
- SUB-BASIN BOUNDARY

106.1 107.1 107.2 108 109.1 109.2 109.3 110.1 110.2 110.3 111.1 111.2 111.3 111.4 112 113 AP.4 AP.4.1 AP.5

DETENTION POND

RETENTION POND

STRUCTURE: 2 EA. 60" CMP

STRUCTURE: 1 EA. 24" CMP

STRUCTURE: 3 EA. 24" CMP

STRUCTURE: 1 EA. 8'x7' CBC

STRUCTURE: 3 EA. 60" CMP

STRUCTURE: 1 EA. 18" CMP

STRUCTURE: 1 EA. 54" CMP

SECTION 16 HAUL ROAD

MATCHLINE SEE SHEET 28

MATCHLINE SEE SHEET 30

0 200' 400'

N

ROCA HONDA RESOURCES LLC

Roca Honda Resources LLC.
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WILSON & COMPANY

4900 Lang Avenue Ne
Albuquerque, NM 87109
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SEAL

PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

BY	DESCRIPTION	DATE	REV.

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE

PROPOSED DRAINAGE BASIN PLAN

SHEET NO:

SHEET 29 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 11B BASIN PLAN 2.DWG

9/27/11

Developed Conditions				Existing Conditions		
Junction (ID)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)
AP.6	228.8	570	26.68	203.0	502	23.67
AP.7	589.9	629	69.29	653.8	847	76.24
AP.7.1	114.4	54	13.83			
AP.8	818.7	925	95.97	856.9	1038	99.91

LEGEND

- PROPOSED CULVERT
- EXISTING CULVERT
- GENERAL SURFACE FLOW DIRECTION
- EXISTING SECONDARY SURFACE CONTOUR
- XXXX EXISTING INDEX SURFACE CONTOUR
- AP.X ANALYSIS POINT AND I.D.
- 1XX.X SUB-BASIN I.D.
- SUB-BASIN BOUNDARY

MATCHLINE SEE SHEET 29

MATCHLINE SEE SHEET 31

STRUCTURE: 1 EA. 42" CMP

STRUCTURE: 2 EA. 24" CMP

STRUCTURE: UTILITY BRIDGE

DETENTION POND

STRUCTURE: 2 EA. 24" CMP

RETENTION POND

STRUCTURE: 3 EA. 24" CMP

STRUCTURE: 6 EA. 48" CMP

STRUCTURE: 2 EA. 24" CMP

STRUCTURE: 3 EA. 24" CMP

SECTION 10 HAUL ROAD

RETENTION POND

STRUCTURE: 4 EA. 36" CMP

STRUCTURE: 2 EA. 48" CMP

UTILITY CORRIDOR

STRUCTURE: 8 EA. 36" CMP

STRUCTURE: 1 EA. 24" CMP

STRUCTURE: 1 EA. 54" CMP

STRUCTURE: 1 EA. 42" CMP

STRUCTURE: 1 EA. 36" CMP

STRUCTURE: 1 EA. 36" CMP

STRUCTURE: 4 EA. 36" CMP

STRUCTURE: 3 EA. 24" CMP

Developed Conditions				Existing Conditions		
SubBasin (ID)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)
110.1	208.0	376	24.25			
110.2	11.6	58	1.89			
110.3	4.6	23	0.74			
111.1	5.6	21	0.68			
111.2	1.1	4	0.13			
111.3	4.0	15	0.48			
111.4	12.6	48	1.54			
112	5.5	20	0.65	5.5	20	0.65
113	42.9	112	4.54	42.9	112	4.54
114	58.8	159	5.92	58.8	159	5.92

Developed Conditions				Existing Conditions		
SubBasin (ID)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)
115	15.8	39	1.27	15.8	39	1.27
116	13.0	52	1.67	13.0	52	1.67
117	15.9	58	1.86	15.9	58	1.86
118	20.1	77	2.45	20.1	77	2.45
119	75.6	219	8.82	75.6	219	8.82
120	88.5	206	10.32	88.5	206	10.32
121	140.3	366	16.36	114.5	299	13.35
122.1	73.3	189	8.54			
122.2	21.2	75	2.47			
122.3	7.9	35	1.11			
122.4	12.1	53	1.70			
122.5	1.0	4	0.14			
122.6	9.9	44	1.40			
122.7	17.1	75	2.40			
122.8	11.7	52	1.65			
123	474.5	620	55.32	474.1	620	55.28
124	9.2	34	1.07	9.2	34	1.07
125	244.5	423	28.51	244.5	423	28.51

0 200' 400'

Roca Honda Resources LLC.
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WILSON & COMPANY
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Phone: (505) 348-4000

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SEAL

PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

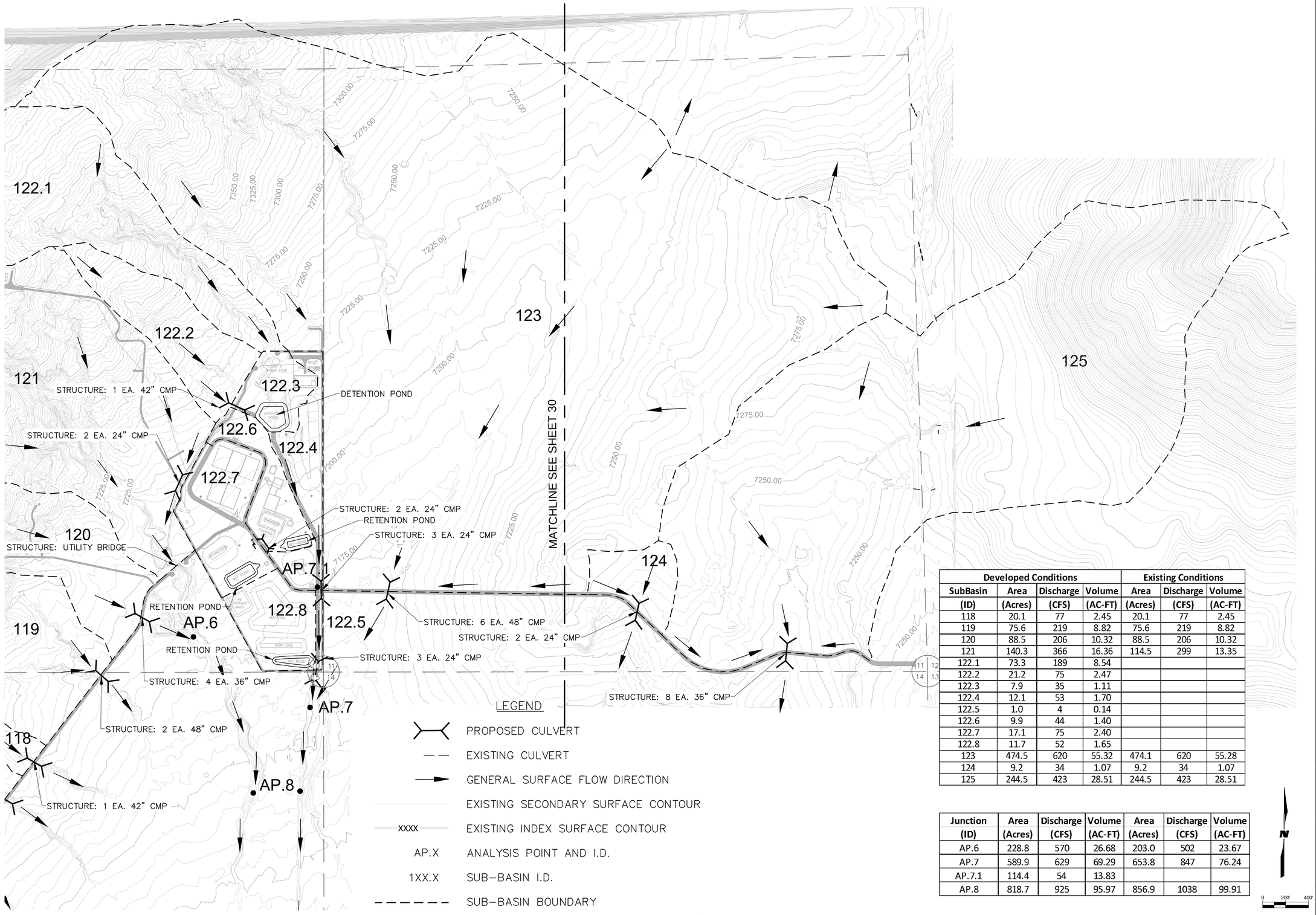
REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
PROPOSED DRAINAGE BASIN PLAN

SHEET NO:
SHEET 30 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 11C BASIN PLAN 3.DWG
9/27/11



Developed Conditions				Existing Conditions		
SubBasin (ID)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)
118	20.1	77	2.45	20.1	77	2.45
119	75.6	219	8.82	75.6	219	8.82
120	88.5	206	10.32	88.5	206	10.32
121	140.3	366	16.36	114.5	299	13.35
122.1	73.3	189	8.54			
122.2	21.2	75	2.47			
122.3	7.9	35	1.11			
122.4	12.1	53	1.70			
122.5	1.0	4	0.14			
122.6	9.9	44	1.40			
122.7	17.1	75	2.40			
122.8	11.7	52	1.65			
123	474.5	620	55.32	474.1	620	55.28
124	9.2	34	1.07	9.2	34	1.07
125	244.5	423	28.51	244.5	423	28.51

Junction (ID)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)	Area (Acres)	Discharge (CFS)	Volume (AC-FT)
AP.6	228.8	570	26.68	203.0	502	23.67
AP.7	589.9	629	69.29	653.8	847	76.24
AP.7.1	114.4	54	13.83			
AP.8	818.7	925	95.97	856.9	1038	99.91

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PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

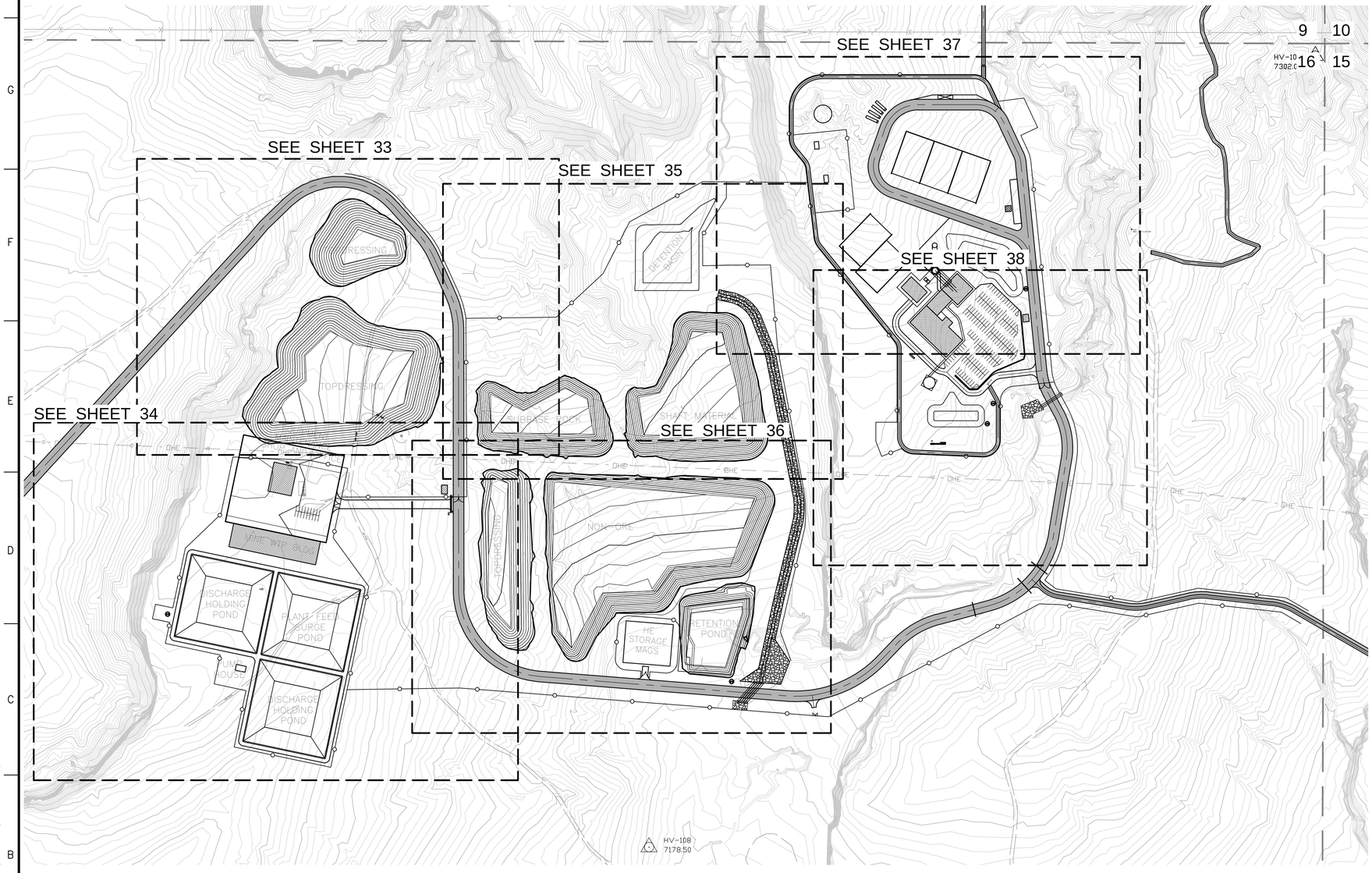
BY	DESCRIPTION	DATE	REV.

PROJECT NO:	1160001900
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DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
PROPOSED DRAINAGE BASIN PLAN

SHEET NO:
SHEET 31 OF 85

9/27/11 M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 11D BASIN PLAN 4.DWG



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Santa Fe, NM 87507

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PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
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DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
SECTION 16
OVERALL
FACILITY GRADING
PLAN & INDEX

SHEET NO:
SHEET 32 OF 85

9/27/11 M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 12 OVERALL FAC GRADING.DWG

BASE COURSE HAUL ROAD

SECTION 16
HAUL ROAD

TOPDRESSING STOCKPILE
25 FT HIGH, 4:1 SS
23.0K CY STORAGE

BASE COURSE HAUL ROAD

SECTION 16
HAUL ROAD

TOPDRESSING STOCKPILE
25 FT HIGH, 4:1 SS
129.3K CY STORAGE
1FT SCRAPE

SUB-BASE ROCK STOCKPILE
25 FT HIGH, 3:1 SS
50.2K CY STORAGE

0 25' 50'

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STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

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PROJECT NO:	1160001900
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CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE

SECTION 16
MINE
GRADING & DRAINAGE
PLAN

SHEET NO:

SHEET 33 OF 85

9/27/11 M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 12 SITE 1 GD 1.DWG



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PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

	BY	DESCRIPTION	DATE	REV.

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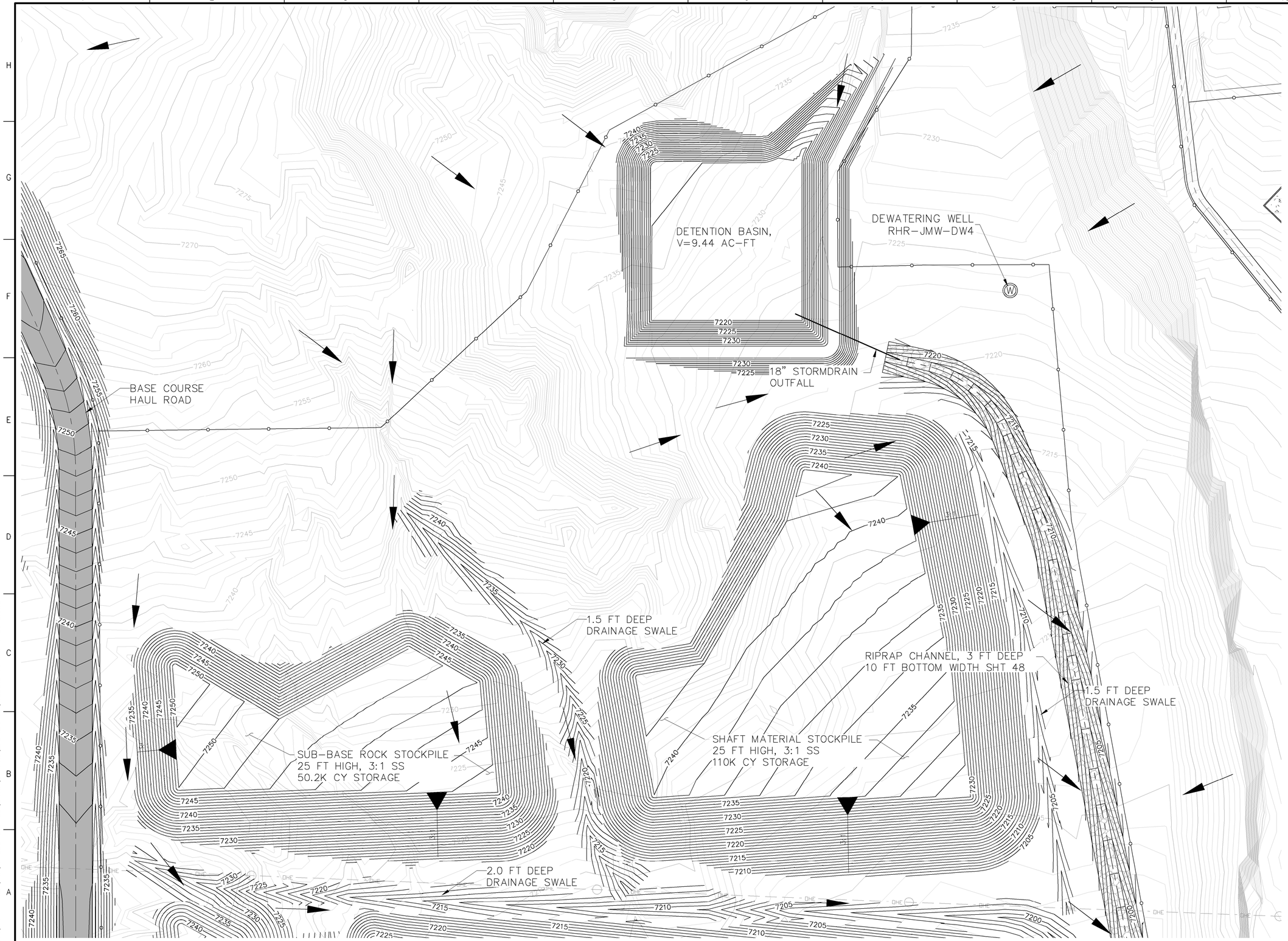
SHEET TITLE

SECTION 16
MINE
GRADING & DRAINAGE
PLAN

SHEET NO:

SHEET 34 OF 85

9/27/11 M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 13 SITE 1 GD 2.DWG



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ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

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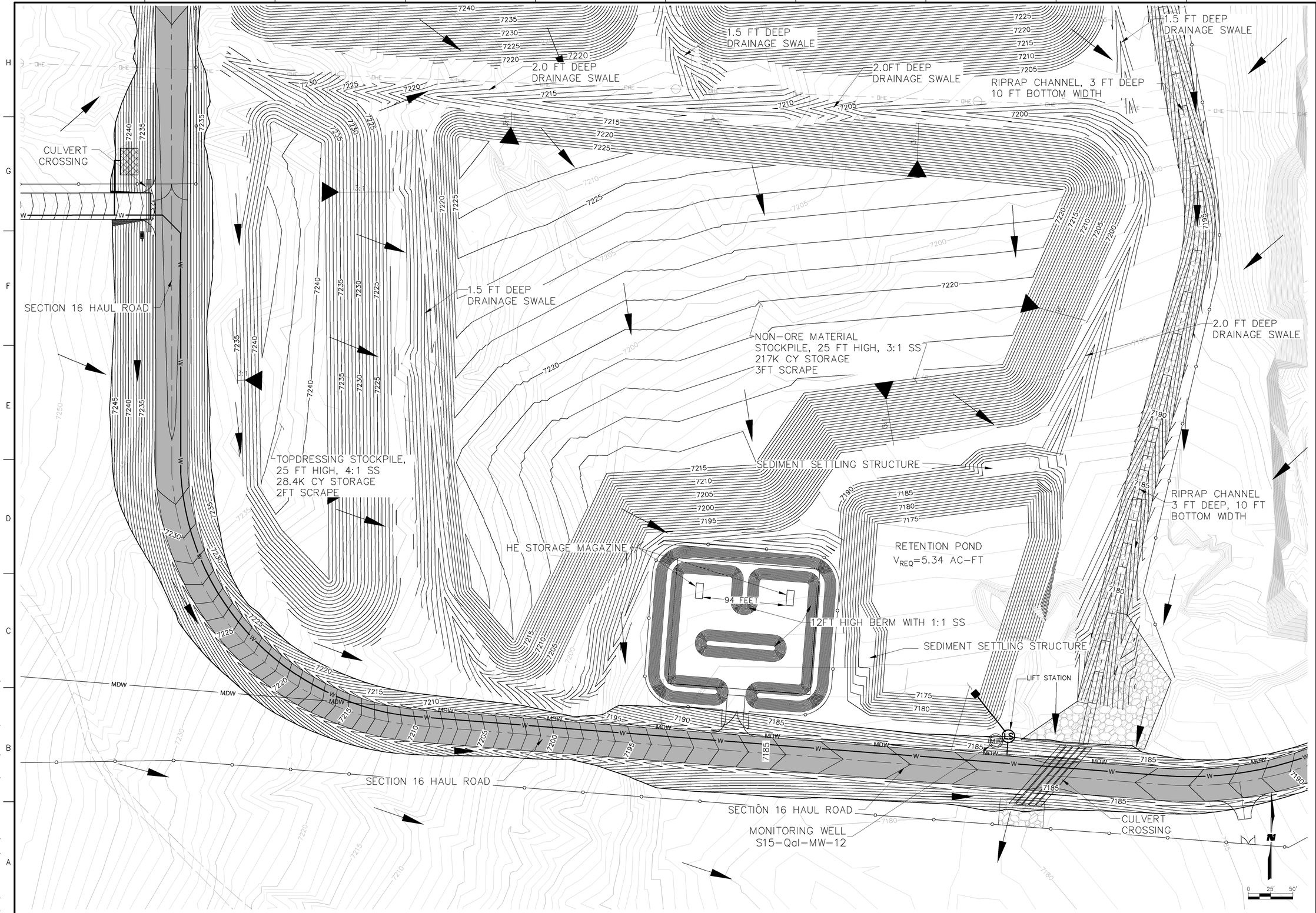
SHEET TITLE

SECTION 16
MINE
GRADING & DRAINAGE
PLAN

SHEET NO:

SHEET 35 OF 85

9/27/11 M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 14 SITE 1 GD 3.DWG



M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 15 SITE 1 GD 4.DWG

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DATE:	JANUARY, 2012

SHEET TITLE

SECTION 16
MINE
GRADING & DRAINAGE
PLAN

SHEET NO:

SHEET 36 OF 85

FUELING BAY

FUEL DEPOT

DEWATERING WELL
RHR-JMW-DW31

DEWATERING WELL
RHR-JMW-DW2

DEWATERING WELL
RHR-KG-DW4
RHR-KG-DW3

DEWATERING WELL
RHR-JMW-DW4

DEWATERING WELL
RHR-KG-DW1
RHR-KD-DW1

DEWATERING WELL
RHR-KG-DW2

100'x150'
ORE BAY
12,500 TONS
TC=7264

100'x150'
ORE BAY
12,500 TONS
TC=7263
TC=7261.2
TC=7262
TC=7259.7

100'x150'
ORE BAY
12,500 TONS
TC=7261
TC=7260
TC=7258.8
TC=7258

100'x150'
ORE BAY
12,500 TONS
TC=7262
TC=7259
TC=7264

100'x150'
ORE BAY
12,500 TONS
TC=7256
TC=7261
TC=7261
TC=7258

ORE BAY RETAINING WALLS
15FT HIGH, 5FT EARTH RETAINED

ORE BAY RETAINING WALLS
15FT HIGH, 5FT EARTH RETAINED

DRAINAGE
CHANNEL

FINISHED FLOOR=7255.5

FINISHED FLOOR=7255.0

TRUCK
WASH AREA

DROP INLET

DROP INLET

DROP INLET

24" ADS SD

SECTION 16 HAUL ROAD

SECTION 16 HAUL ROAD

SEDIMENT SETTLING STRUCTURE

SHAFT HOUSE

RETENTION POND
V_{REQ}=1.97AC-FT

LIFT STATION

MONITORING WELL
S9-Kedi-MW-11

MONITORING WELL
S11-Qal-MW-12

CP-6
SM-1 1-1/2

0 25' 50'

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 16 SITE 1 GD 5.DWG
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SHEET TITLE

SECTION 16
MINE
GRADING & DRAINAGE
PLAN

SHEET NO:

SHEET 37 OF 85

FINISHED FLOOR=7255.5

FINISHED FLOOR=7255.0

100'x150' ORE BAY 12,500 TONS

DEWATERING WELL RHR-KG-DW2

MONITORING WELL S11-Qal-MW-12

LIFT STATION

SECTION 16 HAUL ROAD

CURB & GUTTER

ASSAY HOUSE 4FT HIGH RETAINING WALL

DROP INLET

HELIPAD

DEWATERING WELL RHR-KG-DW3 RHR-KD-DW2

24" ADS SD

2 EA.-48" CMP

SEDIMENT SETTLING STRUCTURE

CULVERT CROSSING

SANITARY WASTEWATER TREATMENT FACILITY

MONITORING WELL S10-Kcdi-MW-11

MONITORING WELL S13-Qal-MW-12

RETENTION POND V_{REQ}=0.91AC-FT

DEWATERING WELL RHR-JMW-DW6

DEWATERING WELL RHR-JMW-DW5

SECTION 16 HAUL ROAD

0 25' 50'

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 17 SITE 1 GD 6.DWG

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REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE

SECTION 16
MINE
GRADING & DRAINAGE
PLAN

SHEET NO:

SHEET 38 OF 85

SEE SHEET 40

SEE SHEET 41

SEE SHEET 42

VENT SHAFT

550 K WATER TANK

VENT SHAFT HOUSE

DETENTION POND

OREDRESSING

ORE BAYS

PARKING LOT

RET. POND

OREDRESSING

RET. POND

HE STORAGE MAGS

SHAFT MATERIAL

NON-ORE

RET. POND

HV-107
7154.75

OHE

Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
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WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

SEAL

60% SUBMITTAL
NOT FOR
CONSTRUCTION

PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
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SHEET TITLE

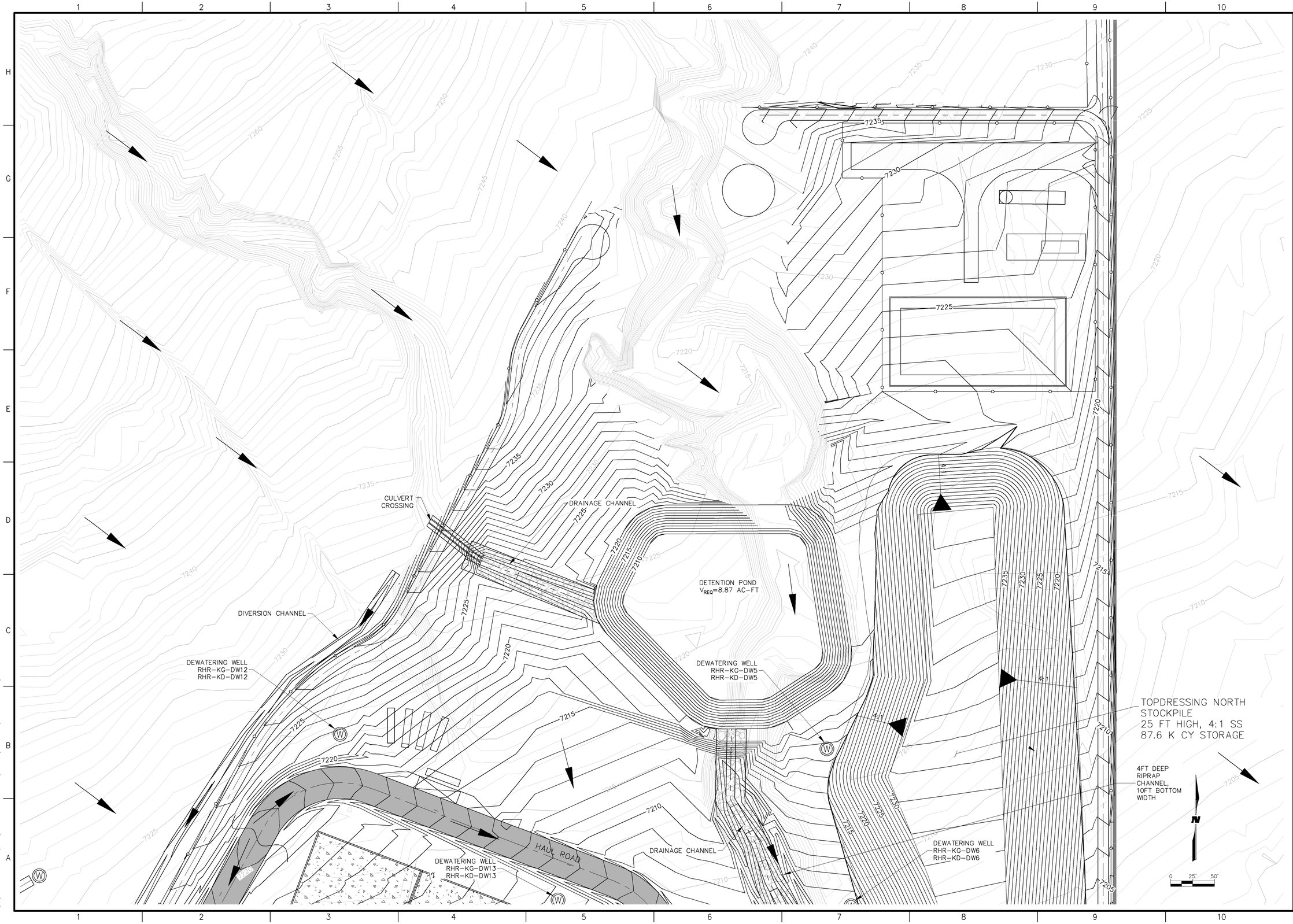
SECTION 10
OVERALL
FACILITY GRADING
PLAN AND INDEX

SHEET NO:

SHEET 39 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 10\1160019 12 OVERALL FAC GRADING.DWG

1/5/12



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SHEET TITLE

SECTION 10
MINE
GRADING & DRAINAGE
PLAN

SHEET NO:

SHEET 40 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 10\1160019 13 SITE 2 GD 1.DWG

1/5/12

DEWATERING WELL
RHR-JMW-DW9

DIVERSION CHANNEL

24" CMP CULVERT

ORE BAY

ORE BAY

ORE BAY

DEWATERING WELL
RHR-KG-DW10
RHR-KD-DW10

ORE BAY

ORE BAY

DROP INLET

DEWATERING WELL
RHR-KG-DW13
RHR-KD-DW13

TOPDRESSING NORTH
STOCKPILE
25 FT HIGH, 4:1 SS
87.6 K CY STORAGE

WAREHOUSE

18" ADS SD

DEWATERING WELL
RHR-KG-DW6
RHR-KD-DW6

4:1

DEWATERING WELL
RHR-JWM-DW10

4FT DEEP
RIPRAP CHANNEL,
10FT BOTTOM WIDTH

DEWATERING WELL
RHR-KG-DW7
RHR-KD-DW7

4FT DIAMETER MANHOLE

DEWATERING WELL
RHR-KG-DW8
RHR-KD-DW8

18" ADS SD CULVERT
WITH END SECTIONS

RETENTION POND
V_{REQ}=1.40 AC-FT

LIFT STATION

TOPDRESSING SOUTH
STOCKPILE
25 FT HIGH, 4:1 SS
7.4 K CY STORAGE

DROP INLET

18" ADS SD

DEWATERING WELL
RHR-KG-DW9
RHR-KD-DW9

4FT DIAMETER MANHOLE

SUB-BASE ROCK
STOCKPILE
25 FT HIGH, 4:1 SS
9.4 K CY STORAGE

0 25' 50'

N

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SHEET TITLE

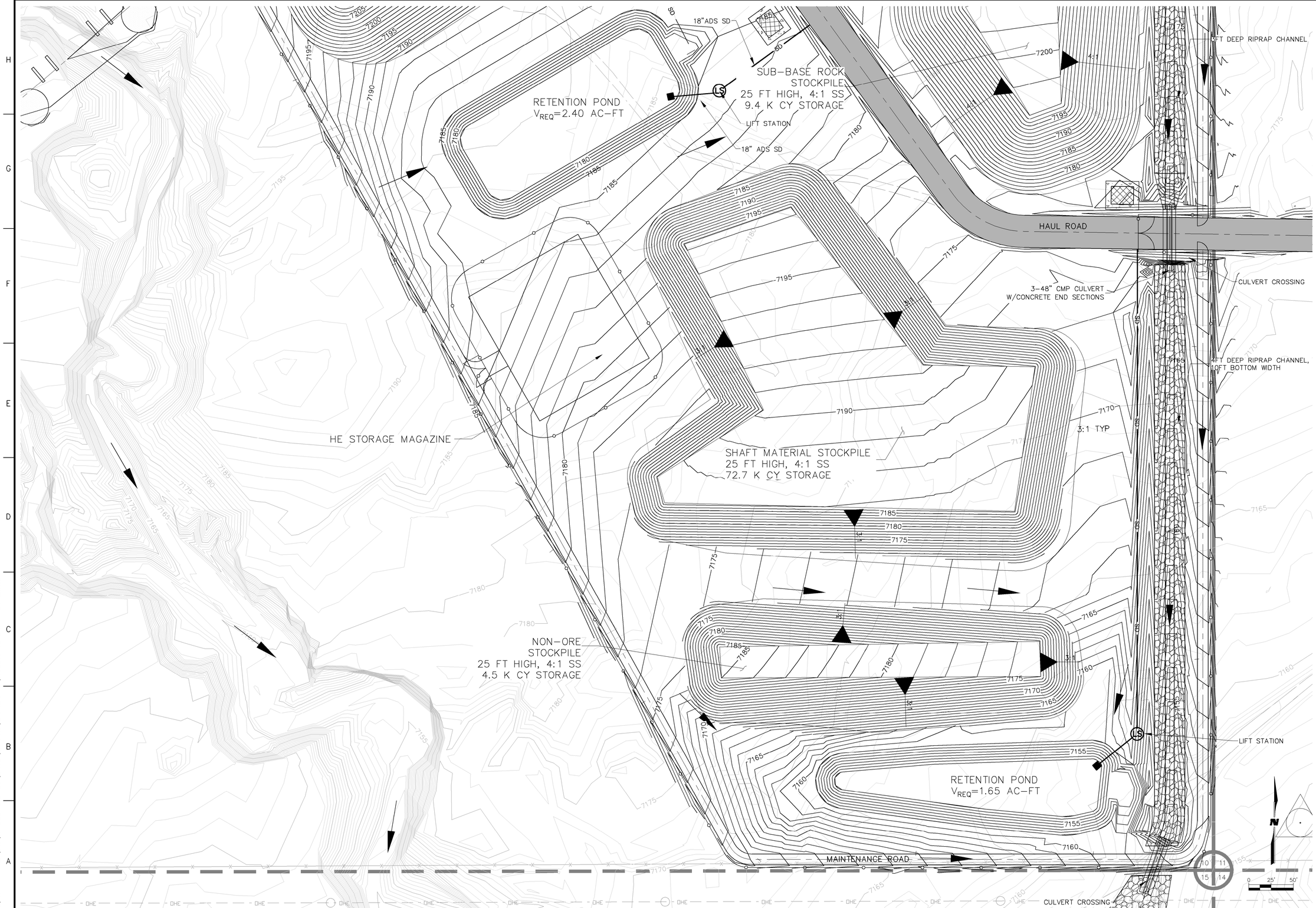
SECTION 10
MINE
GRADING & DRAINAGE
PLAN

SHEET NO:

SHEET 41 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 10\1160019 14 SITE 2 GD 2.DWG

1/9/12



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SHEET TITLE

SECTION 10
MINE
GRADING & DRAINAGE
PLAN

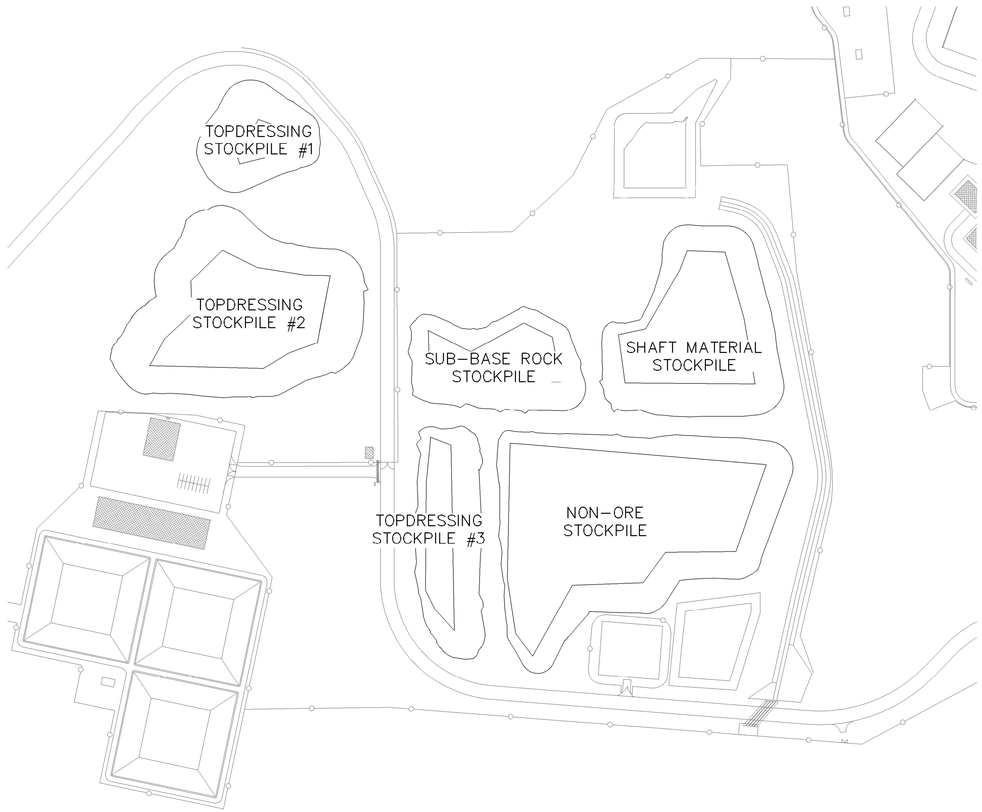
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SHEET 42 OF 85

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1/6/12

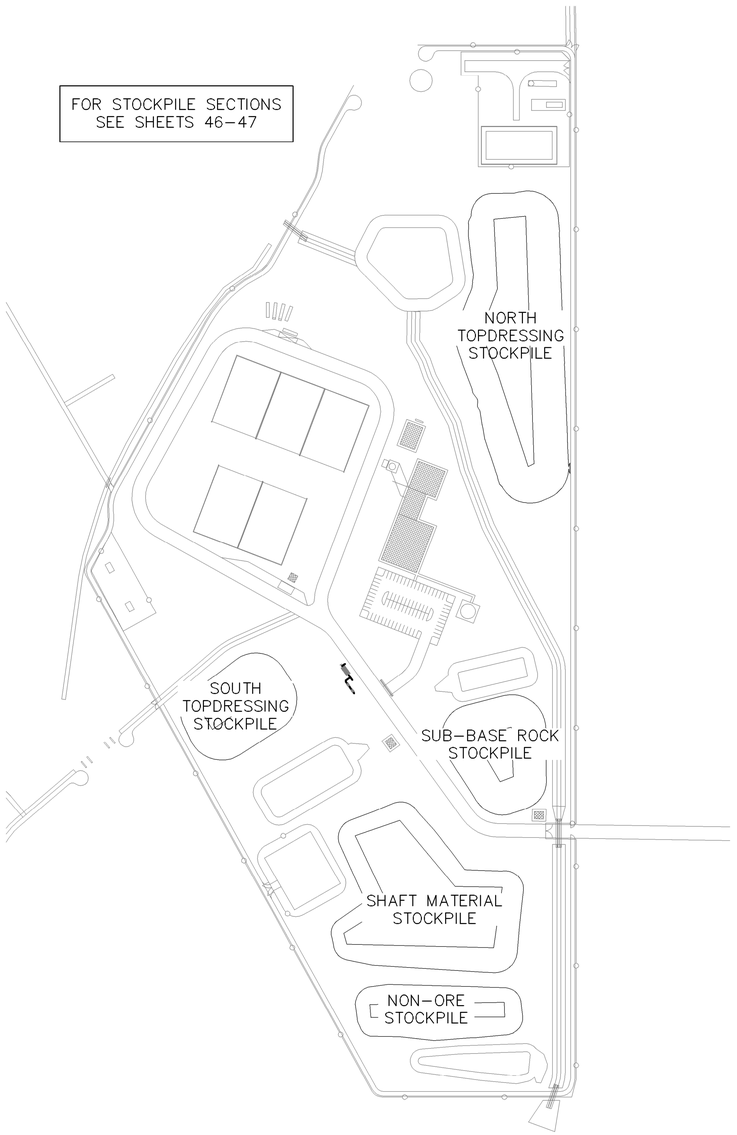
FOR STOCKPILE SECTIONS
SEE SHEETS 44–45



SECTION 16 MINE STOCKPILE LAYOUT

0 100' 200'

FOR STOCKPILE SECTIONS
SEE SHEETS 46–47



SECTION 10 MINE STOCKPILE LAYOUT

0 100' 200'

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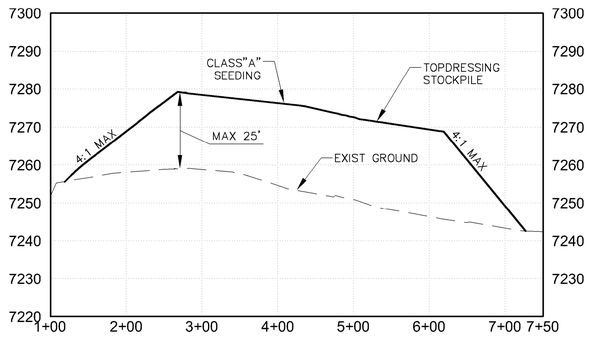
STOCKPILE INDEX
SHEET

SHEET NO:

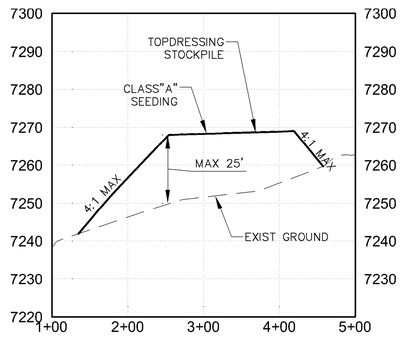
SHEET 43 OF 85

M:\IFS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 18-6 STOCKPILE INDEX.DWG

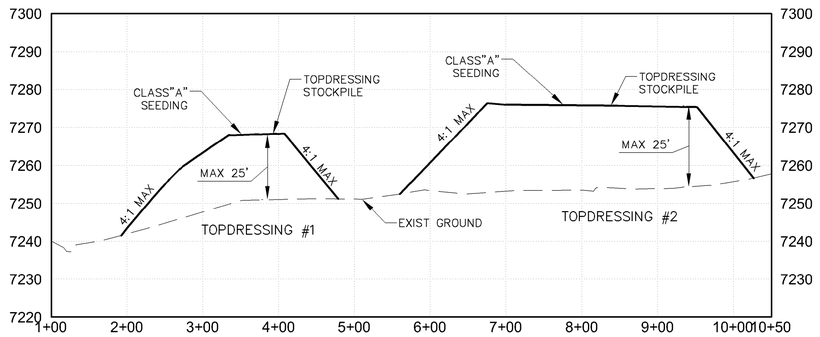
9/27/11



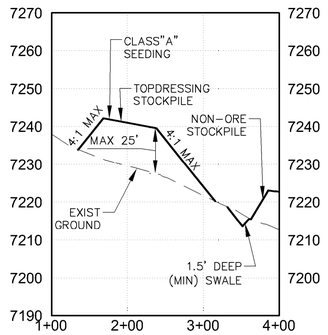
TOPDRESSING STOCKPILE #2
EAST to WEST



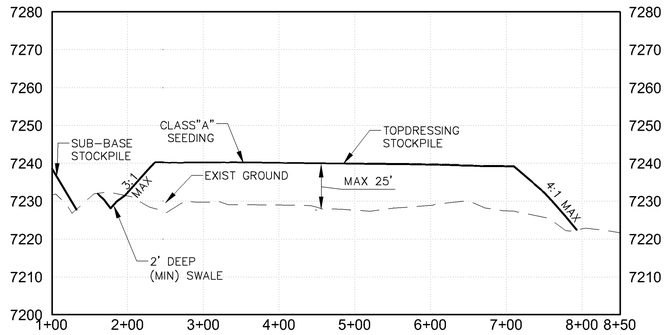
TOPDRESSING STOCKPILE #1
EAST to WEST



TOPDRESSING STOCKPILES #1 & #2
NORTH to SOUTH



TOPDRESSING STOCKPILE #3
EAST to WEST



TOPDRESSING STOCKPILE #3
NORTH to SOUTH

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STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

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PROJECT NO:	1160001900
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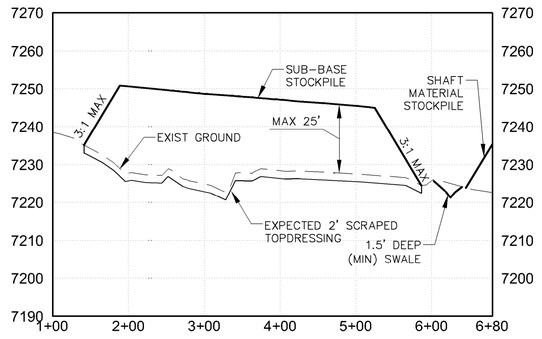
SHEET TITLE
SECTION 16
STOCKPILE
SECTIONS

SHEET NO:
SHEET 44 OF 85

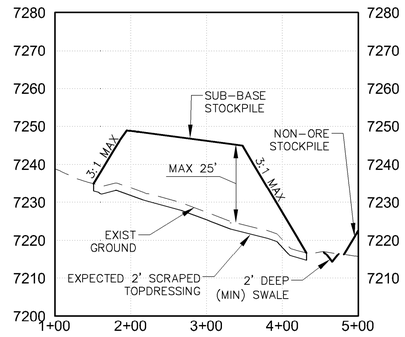
0 10' 20'

0 50' 100'

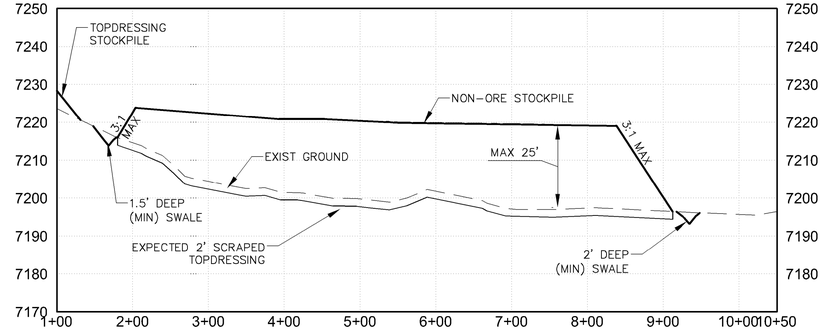
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9/27/11



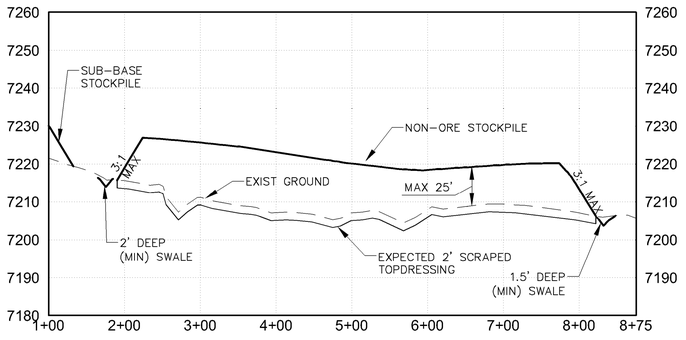
SUB-BASE ROCK STOCKPILE
EAST to WEST



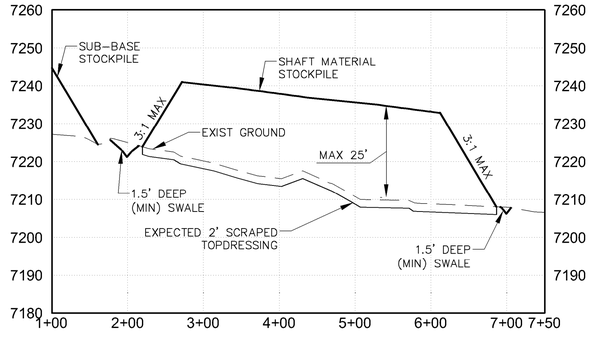
SUB-BASE ROCK STOCKPILE
NORTH to SOUTH



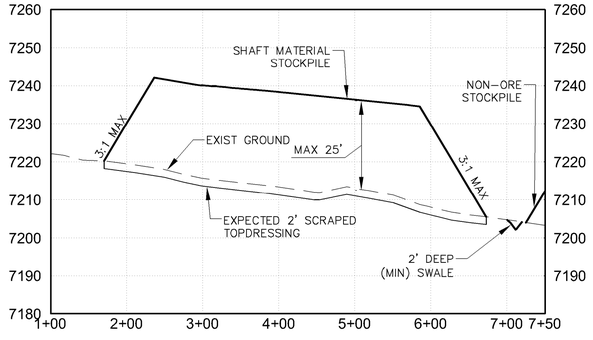
NON-ORE STOCKPILE
EAST to WEST



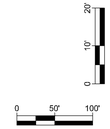
NON-ORE STOCKPILE
NORTH to SOUTH



SHAFT MATERIAL STOCKPILE
EAST to WEST



SHAFT MATERIAL STOCKPILE
NORTH to SOUTH



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SEAL

PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

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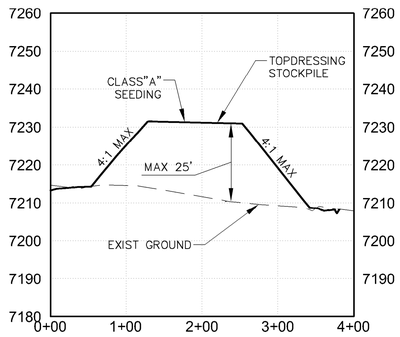
SHEET TITLE

SECTION 16
STOCKPILE
SECTIONS

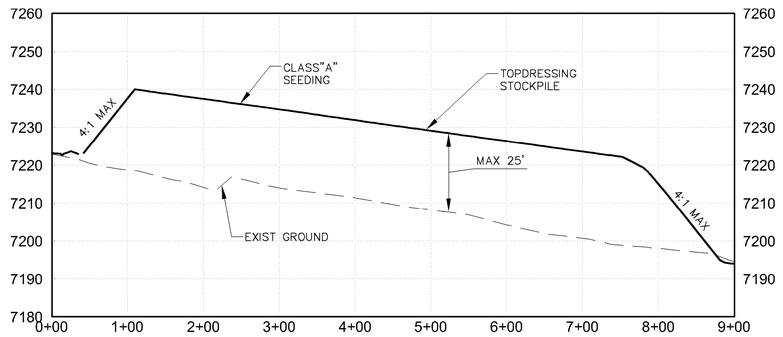
SHEET NO:

SHEET 45 OF 85

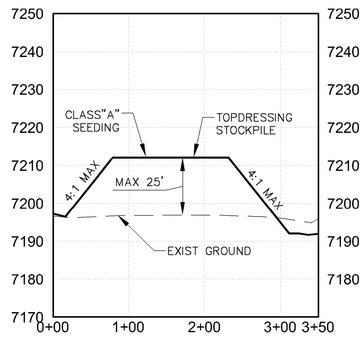
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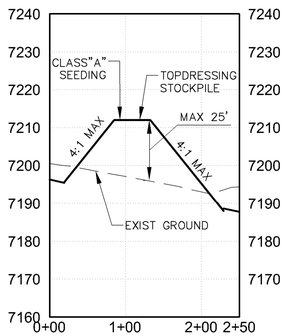
NORTH TOPDRESSING STOCKPILE
EAST to WEST



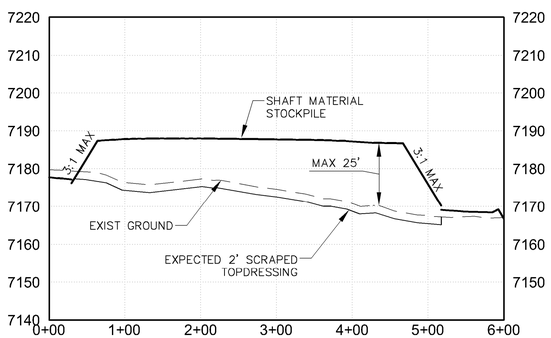
NORTH TOPDRESSING STOCKPILE
NORTH to SOUTH



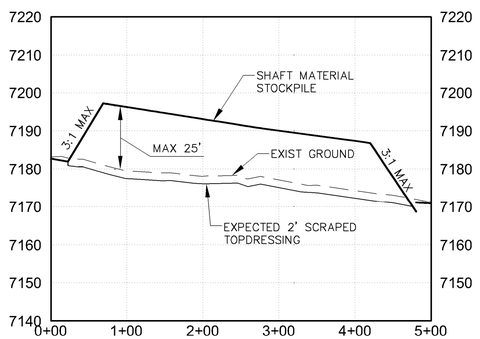
SOUTH TOPDRESSING STOCKPILE
EAST to WEST



SOUTH TOPDRESSING STOCKPILE
NORTH to SOUTH



SHAFT MATERIAL STOCKPILE
EAST to WEST



SHAFT MATERIAL STOCKPILE
NORTH to SOUTH

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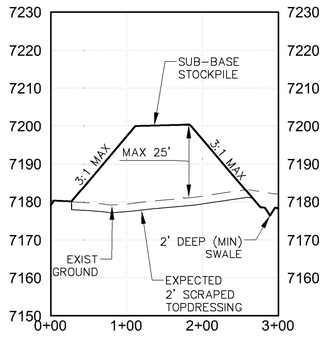
SHEET TITLE
SECTION 10
STOCKPILE
SECTIONS

SHEET NO:
SHEET 46 OF 85

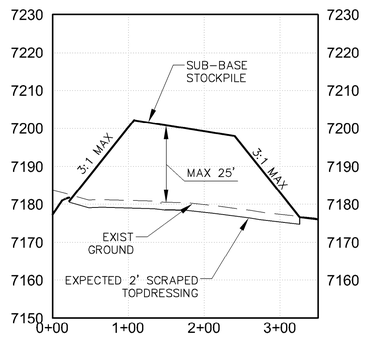
0 10' 20'

0 50' 100'

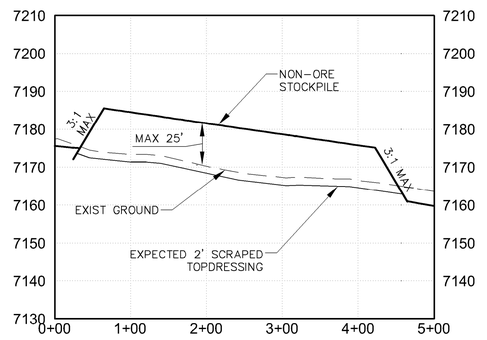
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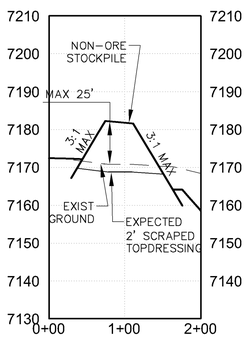
SUB-BASE ROCK STOCKPILE
EAST to WEST



SUB-BASE ROCK STOCKPILE
NORTH to SOUTH



NON-ORE STOCKPILE
EAST to WEST



NON-ORE STOCKPILE
NORTH to SOUTH

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DATE:	JANUARY, 2012

SHEET TITLE

SECTION 10
STOCKPILE
SECTIONS

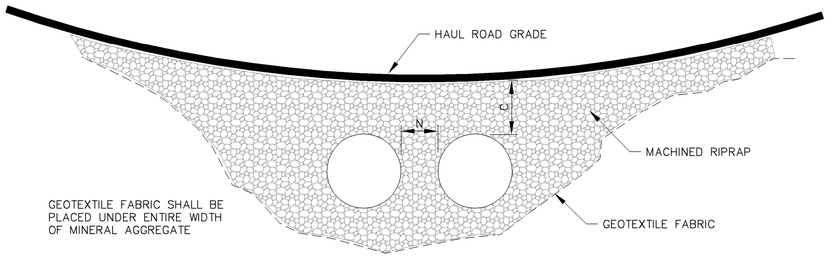
SHEET NO:

SHEET 47 OF 85

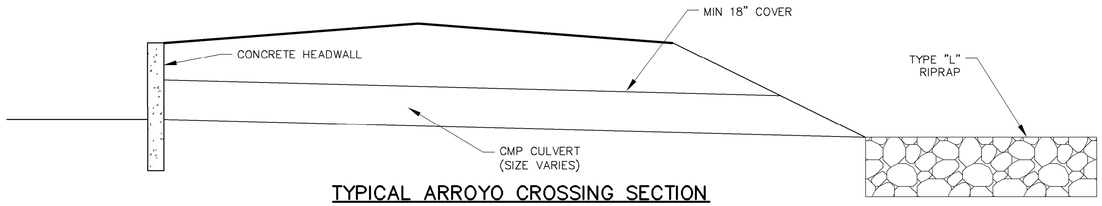
0 10' 20'

0 50' 100'

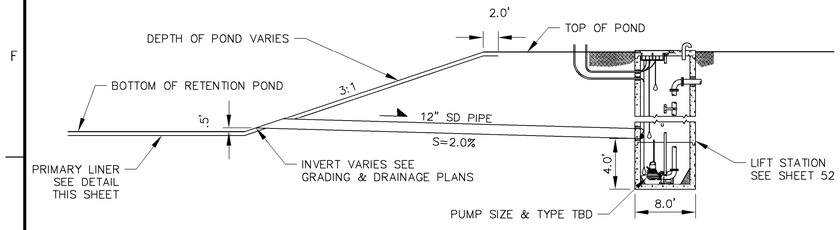
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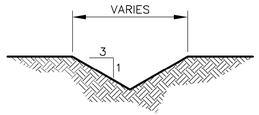
TYPICAL ARROYO CROSSING
NTS



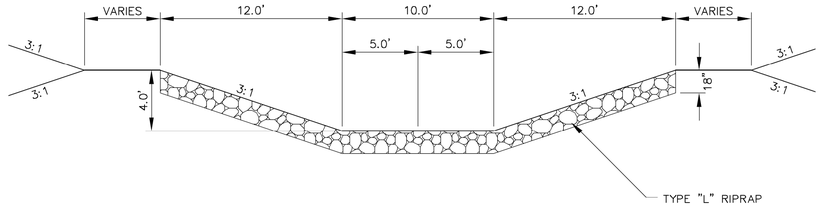
TYPICAL ARROYO CROSSING SECTION
NTS



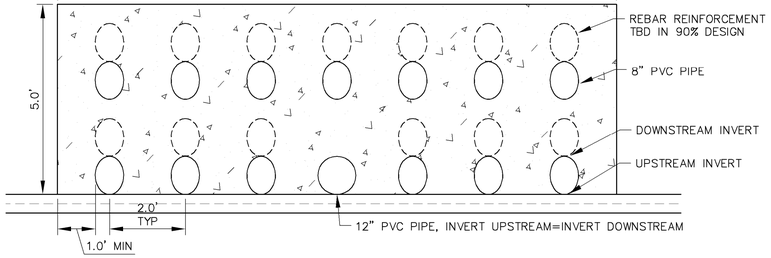
TYPICAL POND OUTLET TO LIFT STATION SECTION
SCALE: 1" = 10'



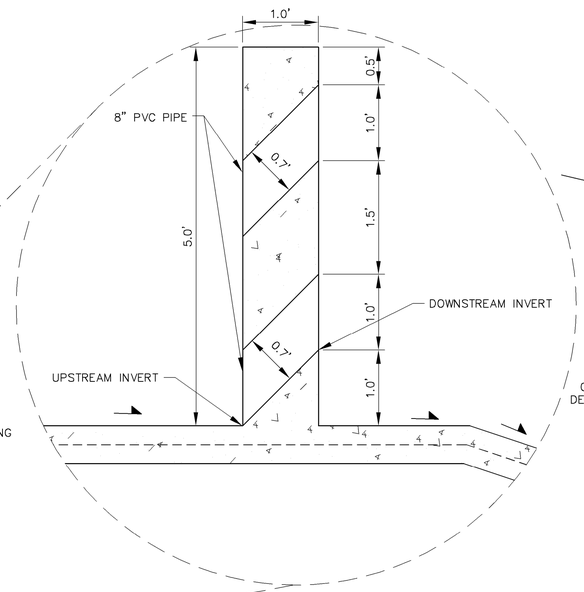
TYPICAL SWALE SECTION
SCALE: NTS

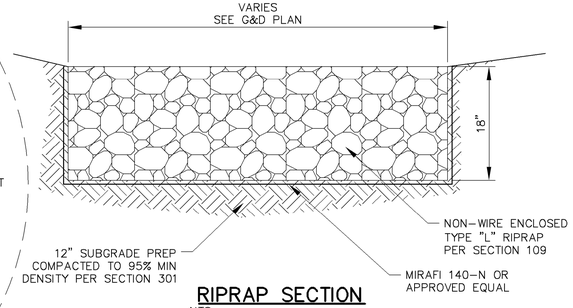


TYPICAL CHANNEL SECTION
SCALE: 1" = 5'

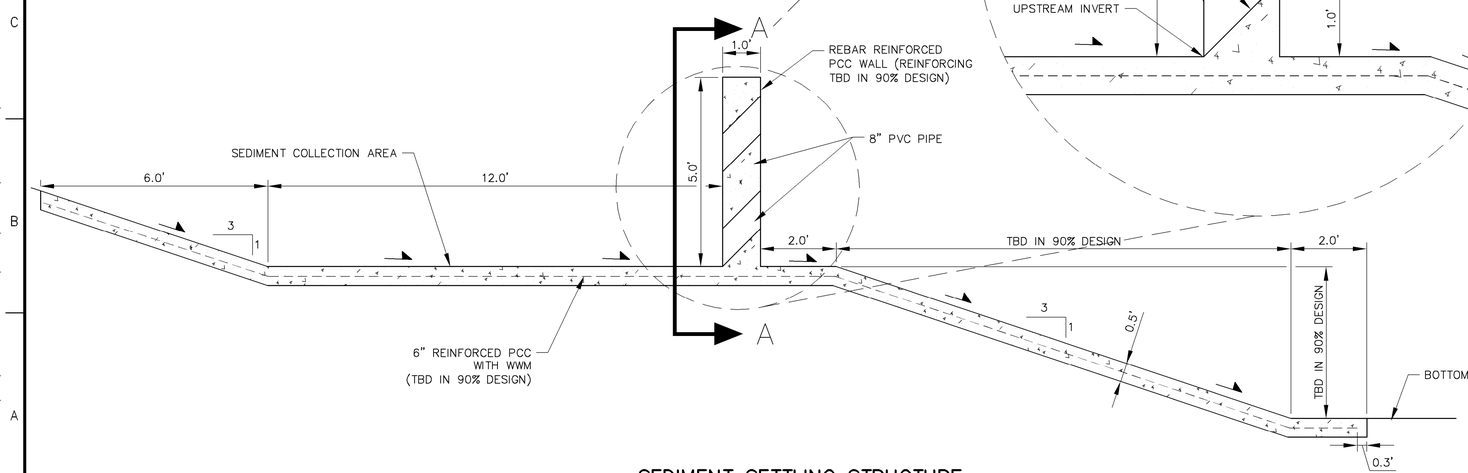


SECTION A–A
SCALE: 1" = 2'





RIPRAP SECTION
NTS



SEDIMENT SETTLING STRUCTURE
SCALE: 1" = 2'

Roca Honda Resources LLC.
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Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

60% SUBMITTAL NOT FOR CONSTRUCTION

SEAL

PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

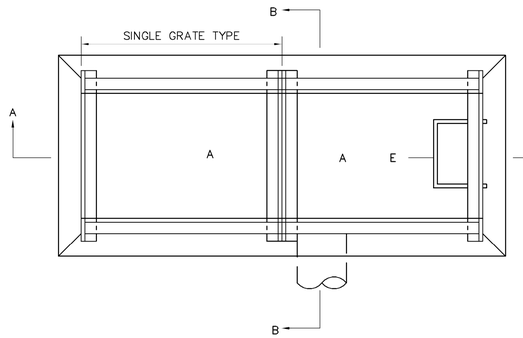
SHEET TITLE

GRADING & DRAINAGE DETAILS

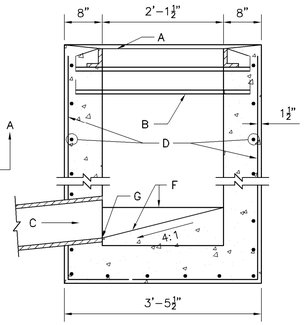
SHEET NO:

SHEET 48 OF 85

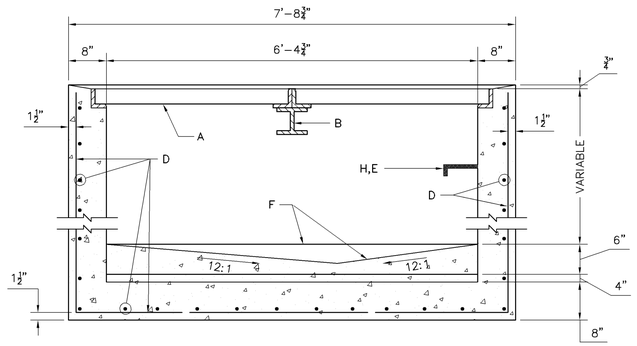
9/27/11 M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 19 GD DETAILS-01.DWG



PLAN



SECTION B-B



SECTION A-A

TYPICAL TYPE "D" INLET DETAIL

SEE SHEET 50 FOR GRATING DETAILS

GENERAL NOTES:

1. FOR SINGLE GRATE TYPE STORM INLET, DELETE CENTER SUPPORT AND MOVE ONE END WALL TO FORM NEW SINGLE GRATE INLET.
2. STORM INLET GUTTER TRANSITION WILL BE SHOWN ON THE CONSTRUCTION PLANS.
3. OUTLET PIPE SIZE, PER DESIGN REQUIREMENT.
4. FOR FRAME & GRATING, SEE SHEET 50
5. FOR CENTER SUPPORT ASSEMBLY, SEE DWG 2215. (NOT INCLUDED)

CONSTRUCTION NOTES:

A. FRAME & GRATE.

B. CENTER SUPPORT ASSEMBLY.

C. CUT ONE HORIZONTL & ONE VERTICAL BAR MAX AT PIPE OPENING.

D. NO 4 BARS AT 6" OC EW

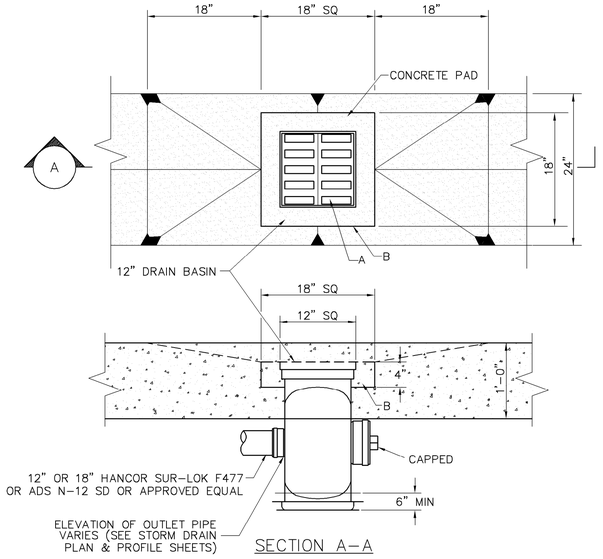
E. USE STANDARD STEPS, SEE DWG 2229. (NOT INCLUDED)

F. CONC FILL, SEE NOTE C, DWG 2201.

G. INVERT PER DESIGN.

H. INSTALL STIPS ON DOWNSTREAM FACE.

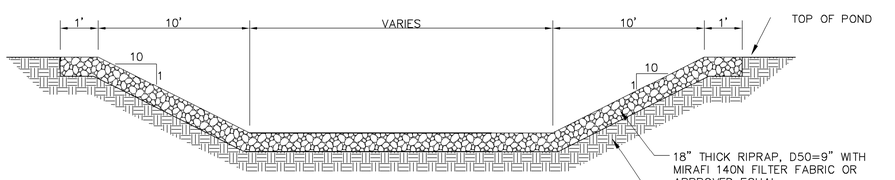
NOTE: REFERENCED DRAWINGS TO BE INCLUDED IN FINAL CONSTRUCTION PACKAGE



SECTION A-A

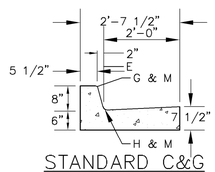
CONSTRUCTION NOTES
A. PERFORATED CAST IRON GRATE WITH HINGED BASE
B. CIP CONCRETE: 28 DAY STRENGTH FC=3000 PSI

TYPICAL 12" CATCH BASIN DETAIL



TYPICAL DETENTION BASIN EMERGENCY SPILLWAY DETAIL

NTS



STANDARD C&G

CONSTRUCTION NOTES:

E. THEORETICAL FACE OF CURB OR FLOWLINE.

F. TRAFFIC SIDE.

G. 3/4" RADIUS.

H. 1 1/2" RADIUS.

J. 2" RADIUS.

K. 24" RADIUS.

L. TACK COAT.

M. DIMENSIONS AT ROUNDED CORNERS MEASURED TO INTERSECTION OF STRAIGHT LINES.

GENERAL NOTES:

1. CURB & GUTTER WILL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE (PCC).
2. FOR STANDARD AND MEDIAN C&G ADJACENT TO ASPHALT CONCRETE PAVEMENT, PROVIDE CONTRACTION AND EXPANSION JOINTS PER FP-03, SUB-SECTION 609.05 AND AT A MAXIMUM SPACING OF 200' BETWEEN CURB RETURNS. CURB & GUTTER CONSTRUCTION JOINTS WILL BE PLACED AT 10 FOOT CENTERS, WHICH WILL BE FORMED WITH METAL TEMPLATES NOT MORE THAN 1/8 INCH THICK AND WILL BE AT FULL DEPTH. PAVING WITH CURB MACHINE WILL FOLLOW THE REQUIREMENTS OF FP-03, SUBSECTION 609.05.
3. ROUND ALL CORNERS AND EXPOSED EDGES ON THE CURB & GUTTER. ALL EDGES SHALL BE EDGED WITH A 3/8" RADIUS EDGING TOOL.
4. REMOVE AND REPLACE PAVEMENT 1' WIDE ADJACENT TO LIP OF GUTTER WHEN CONSTRUCTING C&G ADJACENT TO EXISTING ASPHALT CONCRETE PAVEMENT.
5. 1/4" ISOLATION JOINT SHALL BE PLACED BETWEEN SIDEWALK AND C & G WHEN CAST ADJACENT TO EACH OTHER.
6. ADA = AMERICAN WITH DISABILITIES ACT.
7. CONCRETE FOR ALL SIDEWALKS, RUNDOWNS AND CURB & GUTTER WILL BE CLASS "A" (AE) CONCRETE. THE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS WILL BE 3,000 PSI AND COMPLY WITH FP-03, SECTION 601, MINOR CONCRETE STRUCTURES.
8. SUBGRADE UNDERNEATH SIDEWALKS, RUNDOWNS AND CURB & GUTTER WILL BE COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH FP-03, SUBSECTION 204.11(C).
9. A LIQUID MEMBRANE FORMING CURING COMPOUND CONFORMING TO THE REQUIREMENTS WILL BE USED IN ACCORDANCE WITH FP-03, SUBSECTION 552.15(C) AND 711.01(D) FOR ALL CONCRETE.

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SEAL

PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

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DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE

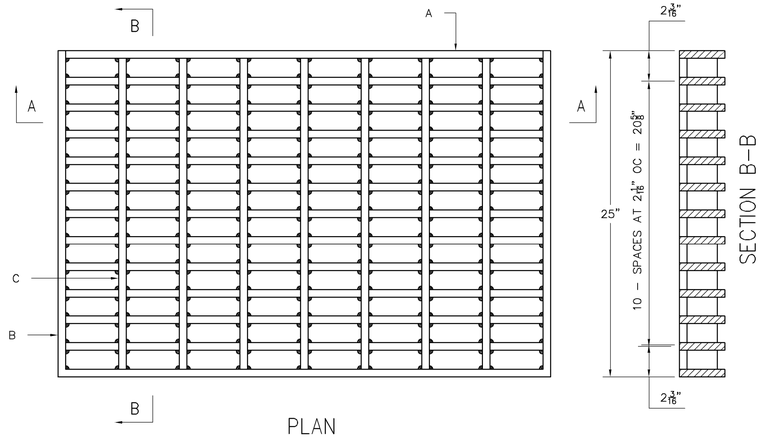
GRADING & DRAINAGE DETAILS

SHEET NO:

SHEET 49 OF 85

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9/27/11



GENERAL NOTES:

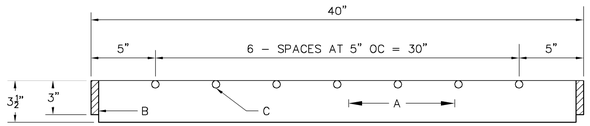
1. ALL BARS SHALL BE STRUCTURAL GRADE STEEL. GRADE A36.
2. THE GRATE SHALL BE WELDED WITH $\frac{1}{8}$" FILLET WELD AROUND BOTH SIDES OF CROSS BARS, $\frac{1}{4}$". FILLET WELD BOTH SIDES OF BEARING BARS TO END BARS.
3. AFTER CLEANING SURFACE OF SCALE, RUST, OILS, ETC, PAINT GRATE WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
4. TOP OF CROSS BARS SHALL BE FLUSH WITH TIP OF GRATE.
5. GRIND WELDS FLUSH WITH BEARING BARS.
6. WHEN INSTALLED IN FRAME, PUSH TIGHT TO ONE SIDE, OTHER SIDE SHALL HAVE $\frac{1}{2}$" MAX OPENING. SPACERS WELDED TO FRAME MAY BE USED IF REQUIRED TO KEEP $\frac{1}{2}$" SPACE OR LESS.

CONSTRUCTION NOTES:

A BEARING BARS, (13) $\frac{1}{2}$" X 3$\frac{1}{2}$" X 39".

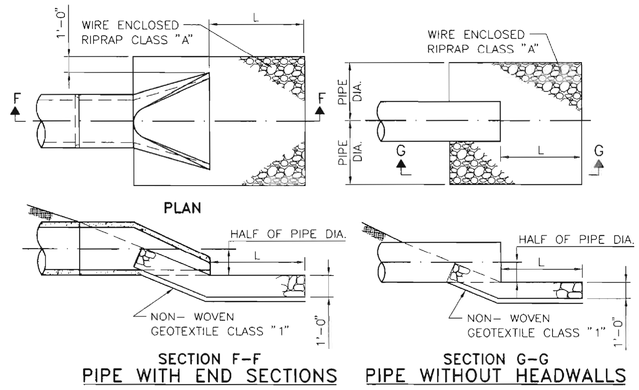
B END BARS, (2) $\frac{1}{2}$" X 3" X 25".

C CROSS BARS, (7) $\frac{1}{2}$" DIA X 24".



SECTION A–A

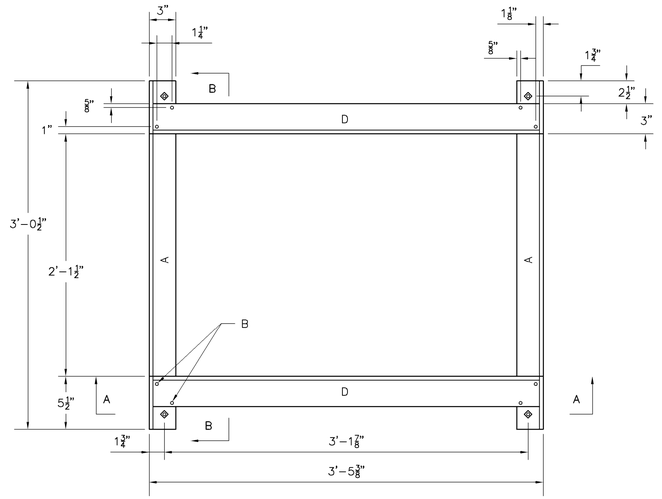
TYPICAL STORM DRAIN INLET GRATE DETAIL



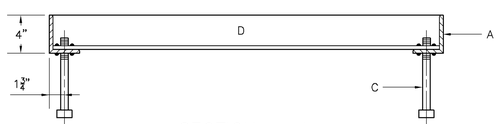
SECTION F–F
PIPE WITH END SECTIONS

SECTION G–G
PIPE WITHOUT HEADWALLS

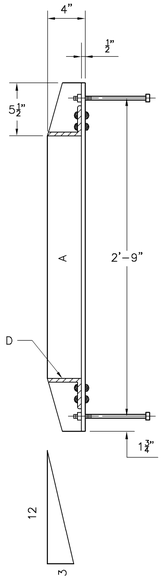
ENERGY DISSIPATER



PLAN



SECTION A–A



SECTION B–B

GENERAL NOTES:

1. ALL EXPOSED METAL PARTS SHALL BE PAINTED PRIOR TO ASSEMBLY. WELDING, MACHINING & DRILLING SHALL BE DONE PRIOR TO PAINTING. ALL DIMENSIONS ARE FINISHED DIMENSIONS.
2. ALL PARTS SHALL BE OF STRUCTURAL STEEL, GRADE 36.
3. FOR CLEANING AND PAINTING OF FRAME SEE DWG 2215, GENERAL NOTE NO 4.
4. FRAME MAY BE WELDED OR RIVETED.

CONSTRUCTION NOTES:

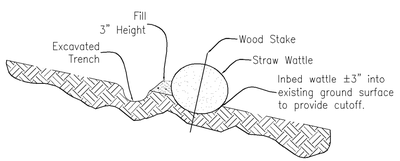
A. 4" X 3" X $\frac{1}{2}$" X 3'–0$\frac{1}{2}$" .

B. 2 – $\frac{3}{8}$" RIVETS AT EACH CORNER, SEE GENERAL NOTE NO 5.

C. 4 – $\frac{1}{2}$" X 8" BOLTS WITH SQUARE HEAD & NUT AT EACH CORNER. FOR ANCHORING FRAME INTO CONCRETE WALL.

D. 3 – $\frac{1}{2}$" X 3" X $\frac{3}{8}$" X 3'–4$\frac{3}{8}$" .

TYPICAL STORM DRAIN INLET FRAME DETAIL



TYPICAL WATTLE DETAIL

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Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

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SEAL

PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

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PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE

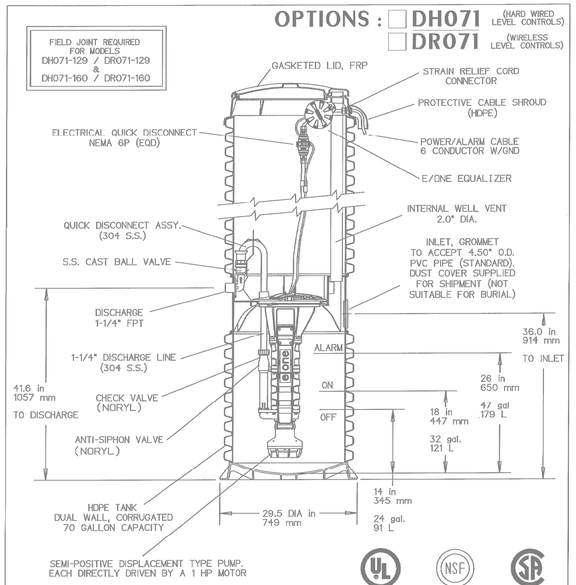
GRADING & DRAINAGE DETAILS

SHEET NO:

SHEET 50 OF 85

9/27/11 M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 19B GD DETAILS-03.DWG

OPTIONS : ☐ DH071 (HARD WIRED LEVEL CONTROLS)
☐ DR071 (WIRELESS LEVEL CONTROLS)



CONCRETE BALLAST MAY BE REQUIRED
SEE INSTALLATION INSTRUCTIONS FOR DETAILS

GUARD HOUSE GRINDER PUMP STATION

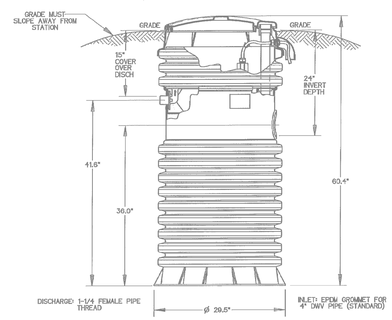
AD	CH	04/27/09	B	
DR BY	CHK'D	DATE	ISSUE	SCALE

e/one SEWER SYSTEMS

MODEL DH071 / DR071 DETAIL SHEET

NA0050P02

OPTIONS : ☐ DH071-61 (HARD WIRED LEVEL CONTROLS)
☐ DR071-61 (WIRELESS LEVEL CONTROLS)



CONCRETE BALLAST MAY BE REQUIRED
SEE INSTALLATION INSTRUCTIONS FOR DETAILS

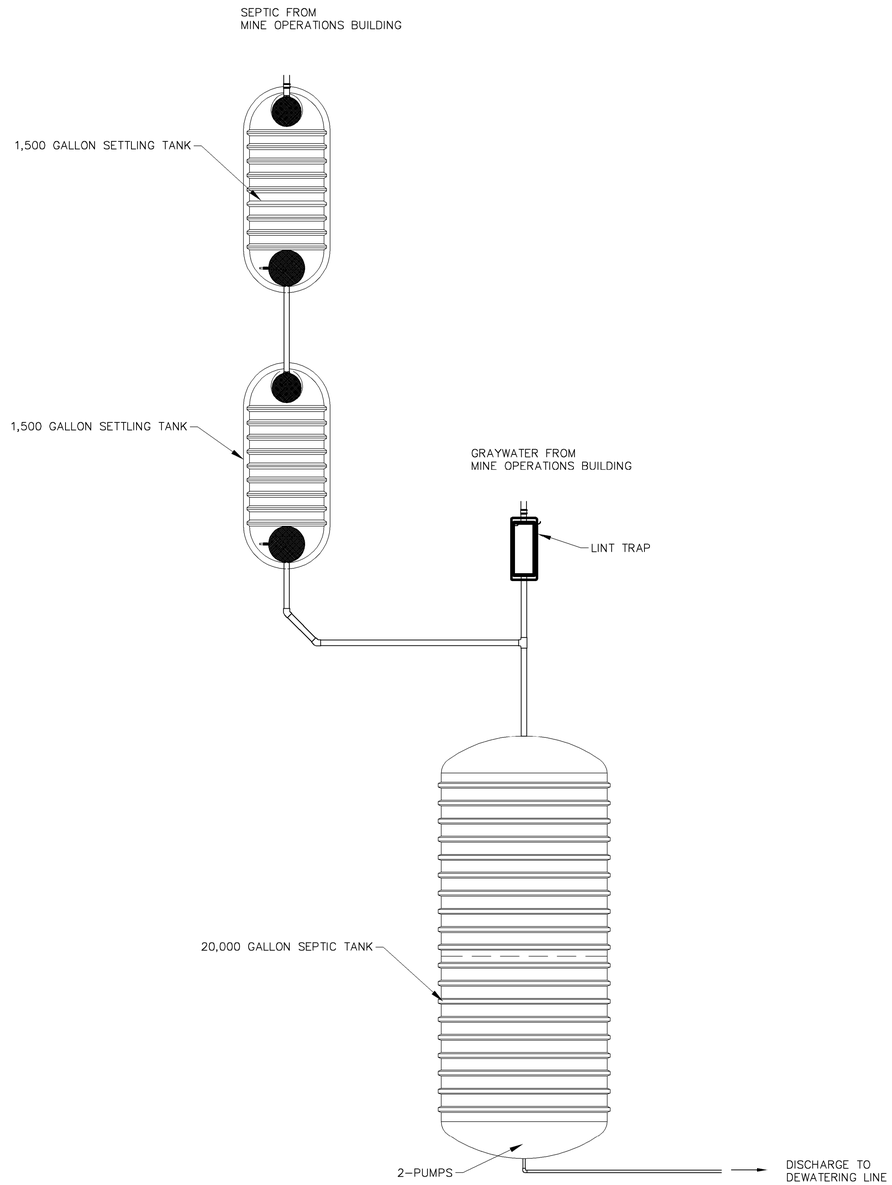
GUARD HOUSE GRINDER PUMP STATION

AD	CAH	07/12/07	A	1/16
DR BY	CHK'D	DATE	ISSUE	SCALE

e/one SEWER SYSTEMS

MODEL DH071-61 / DR071-61

NA0050P04



SANITARY WASTEWATER TREATMENT FACILITY

Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
Santa Fe, NM 87507

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4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

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PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

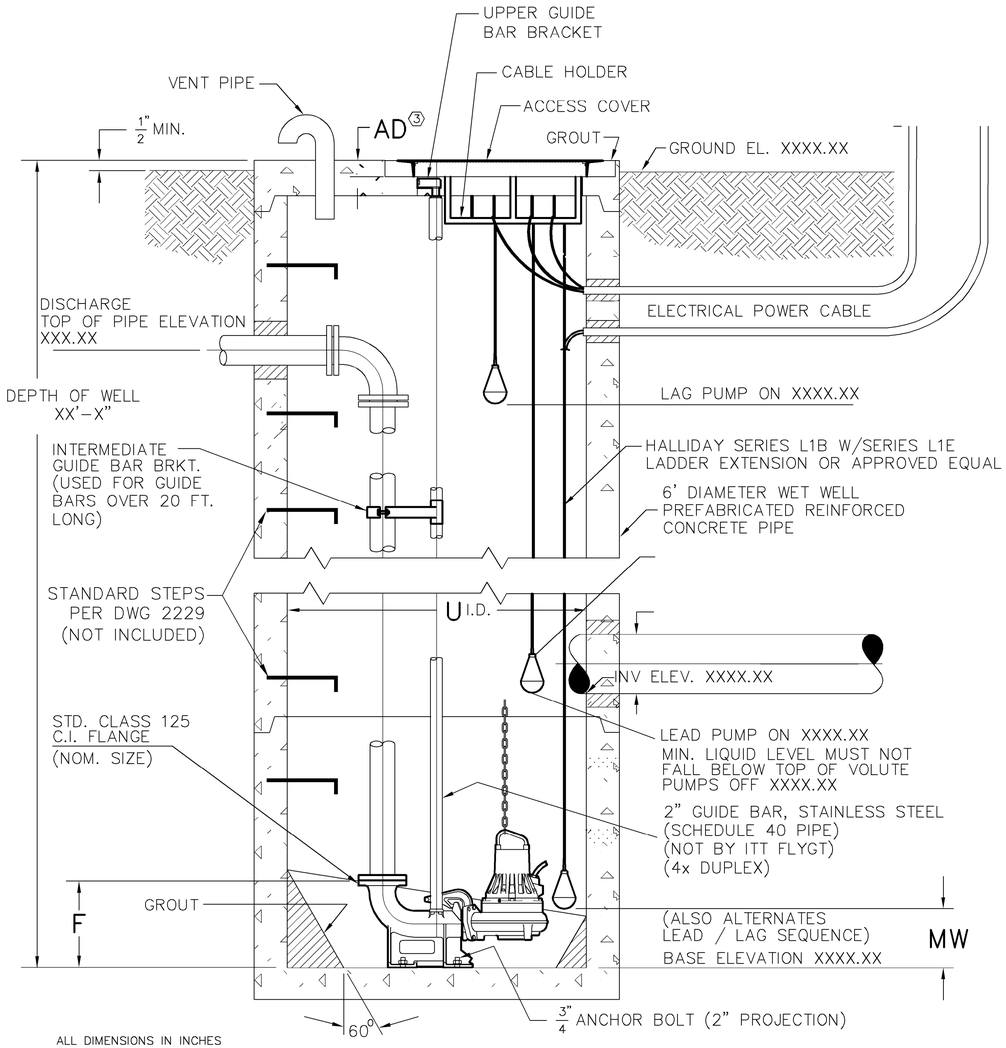
REV.	DATE	DESCRIPTION	BY

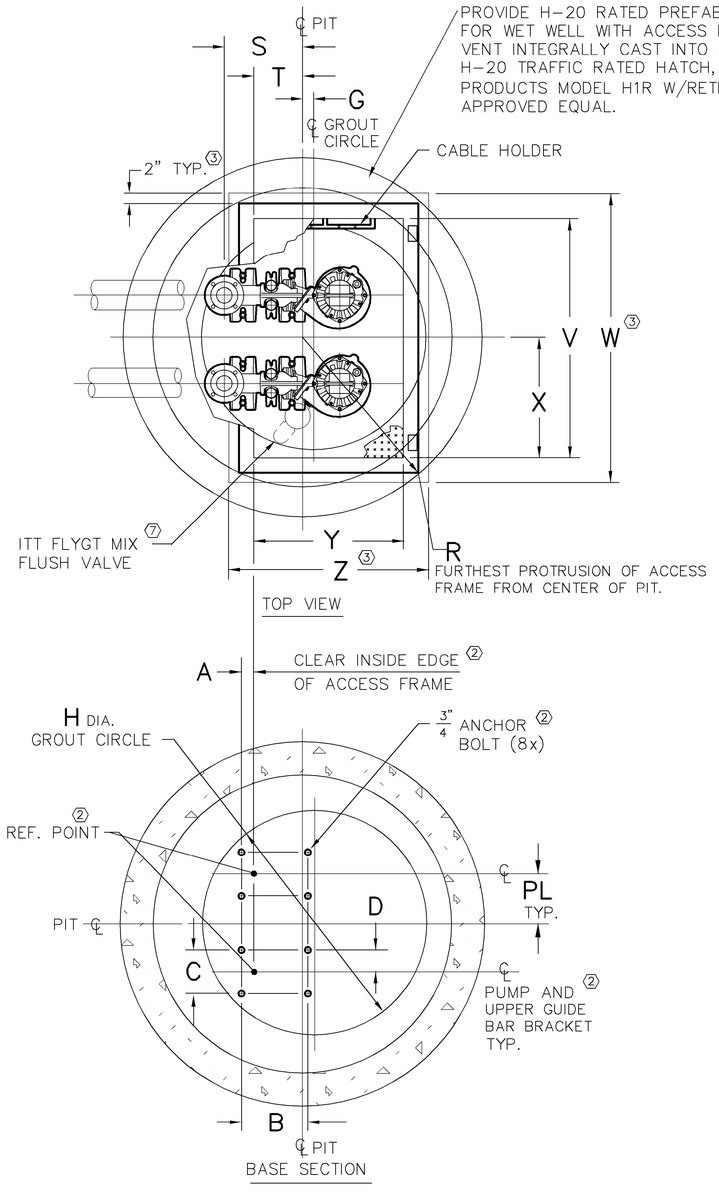
PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
SANITARY WW TREATMENT FACILITY and GRINDER PUMP STATION DETAILS

SHEET NO:
SHEET 51 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 20 SWR-SUMP DETAILS.DWG
9/27/11





ALL DIMENSIONS IN INCHES

DIMENSIONAL CHART																				
VERSION	NOM. SIZE	VERSION	STATION													COVER						
			A	B	C	D	F	G	H	R	S	T	U	CV	MW	PL	SIZE	V	W	X	Y	Z	AD
FP/NP	6"	MT	–	–	–	–	–	–	–	–	–	–	–	–	–	–	H1R3048	–	–	–	–	–	–

PUMPS NOT SELECTED AT THIS TIME

NOTE: NECESSITY OF STEPS TO BE DETERMINED PRIOR TO FINAL CONSTRUCTION PACKAGE. DETAILS TO BE IMPLEMENTED AT THAT TIME.

FLYGT NOTES: ⬡

1. NOT USED.
2. LOCATE ANCHOR BOLTS USING CLEAR INSIDE EDGE OF ACCESS FRAME AND CENTER LINE OF PUMP AS REF. POINT. BOLT LOCATIONS MUST BE HELD TO MAINTAIN EXACT POSITION OF PUMP RELATIVE TO ACCESS FRAME.
3. GROUT OPENING FOR ACCESS FRAME.
4. NOT USED.
5. NOT USED.
6. NOT USED. CALL 1-800-258-6873.
7. ITT MIX FLUSH VALVE DIMENSIONS SEE CURRENT MANUFACTURER SPECIFICATIONS.
8. FOR OUTLINE DIMENSIONS OF PUMP, SEE CURRENT MANUFACTURER SPECIFICATIONS.

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SEAL

PROJECT NAME: STRATHMORE MINERALS ROCA HONDA MINES SECTION 9, 10 & 16 SITE DEVELOPMENT

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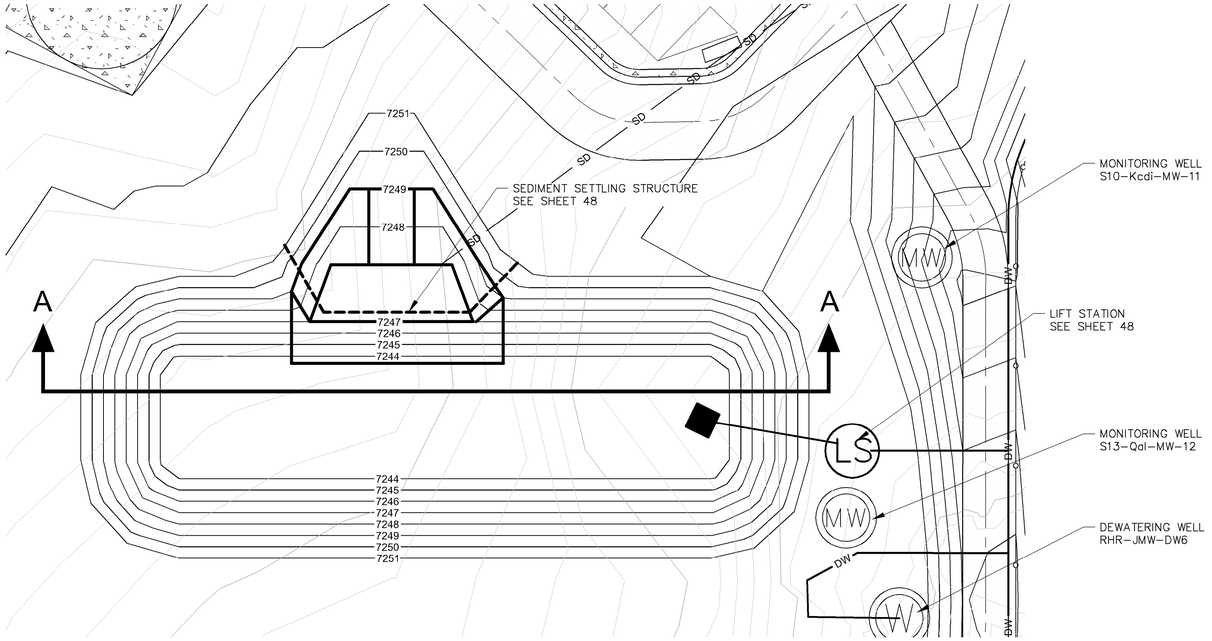
SHEET TITLE

TYPICAL RETENTION POND LIFT STATION DETAILS

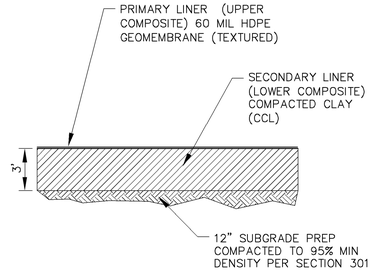
SHEET NO:

SHEET 52 OF 85

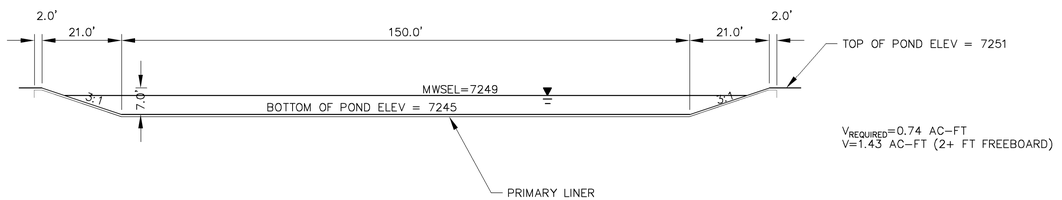
9/27/11 M:\FFS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 20A LIFT STA DETAIL.DWG



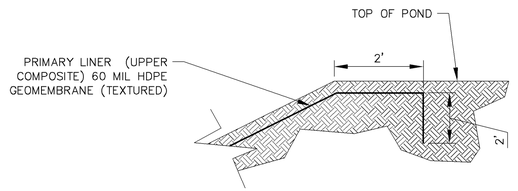
SECTION 16 FACILITIES SOUTH RETENTION POND PLAN



RETENTION POND LINER STANDARD DESIGN



SECTION A-A



TYPICAL LINER ANCHOR SECTION

Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
Santa Fe, NM 87507

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4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

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CONSTRUCTION

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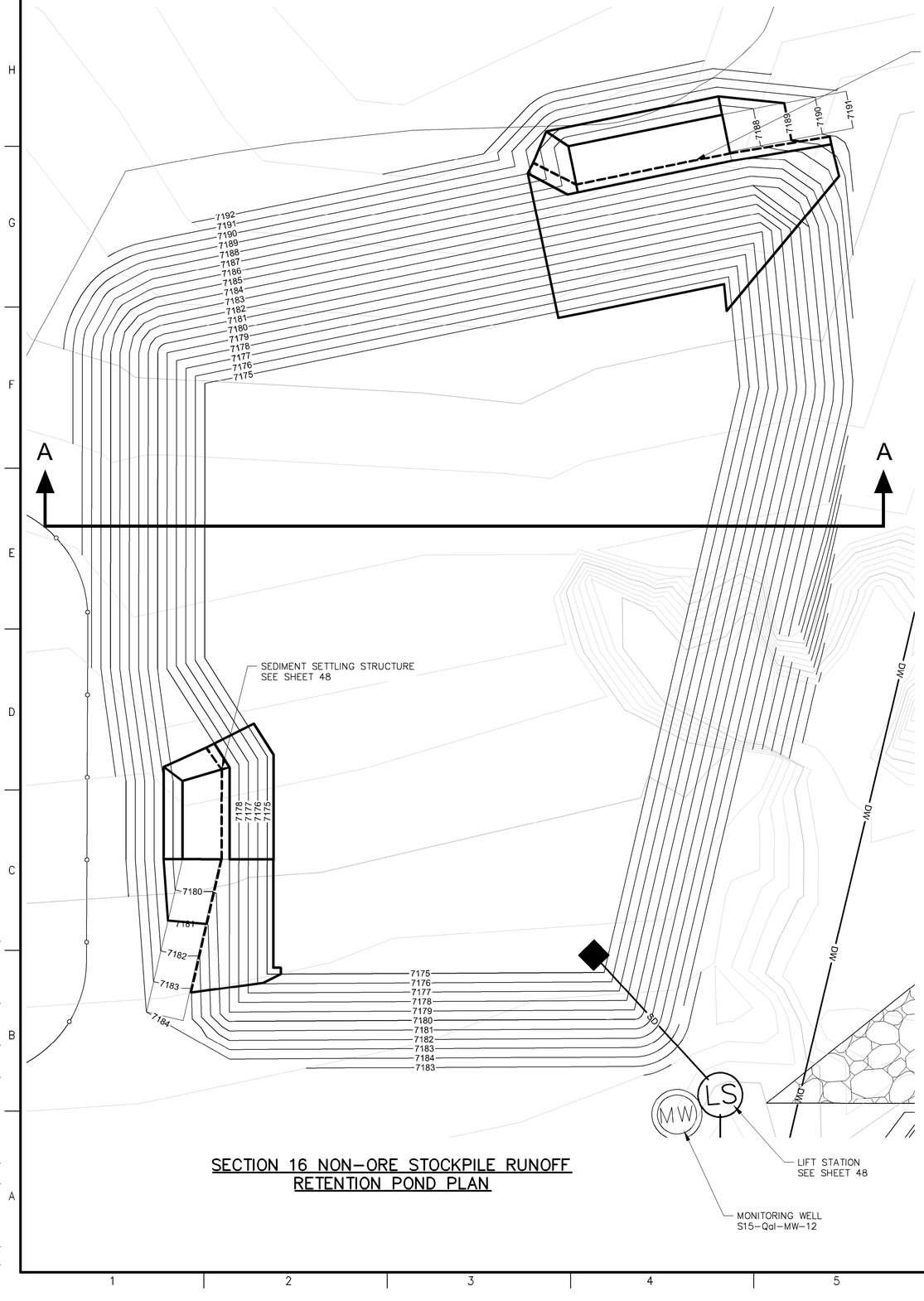
SHEET TITLE
SECTION 16 MINE FACIL. SOUTH RETENTION POND DETAILS

SHEET NO:
SHEET 53 OF 85

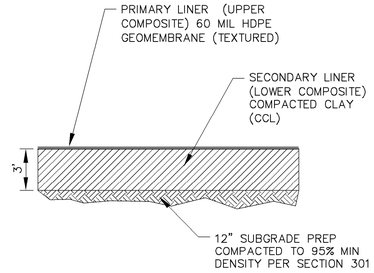
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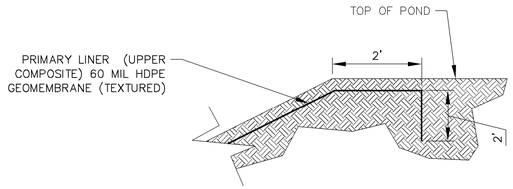
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9/27/11



SECTION 16 NON-ORE STOCKPILE RUNOFF RETENTION POND PLAN

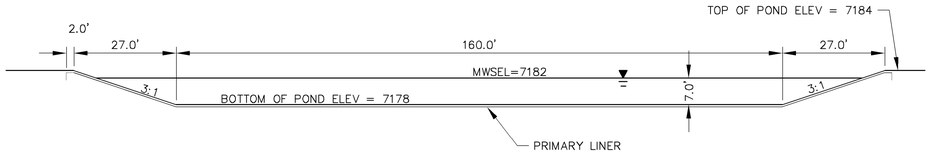


RETENTION POND LINER STANDARD DESIGN



TYPICAL LINER ANCHOR SECTION

$V_{REQUIRED}$=3.82 AC-FT
V=6.05 AC-FT (2+ FT FREEBOARD)



Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

60% SUBMITTAL
NOT FOR CONSTRUCTION

SEAL

PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

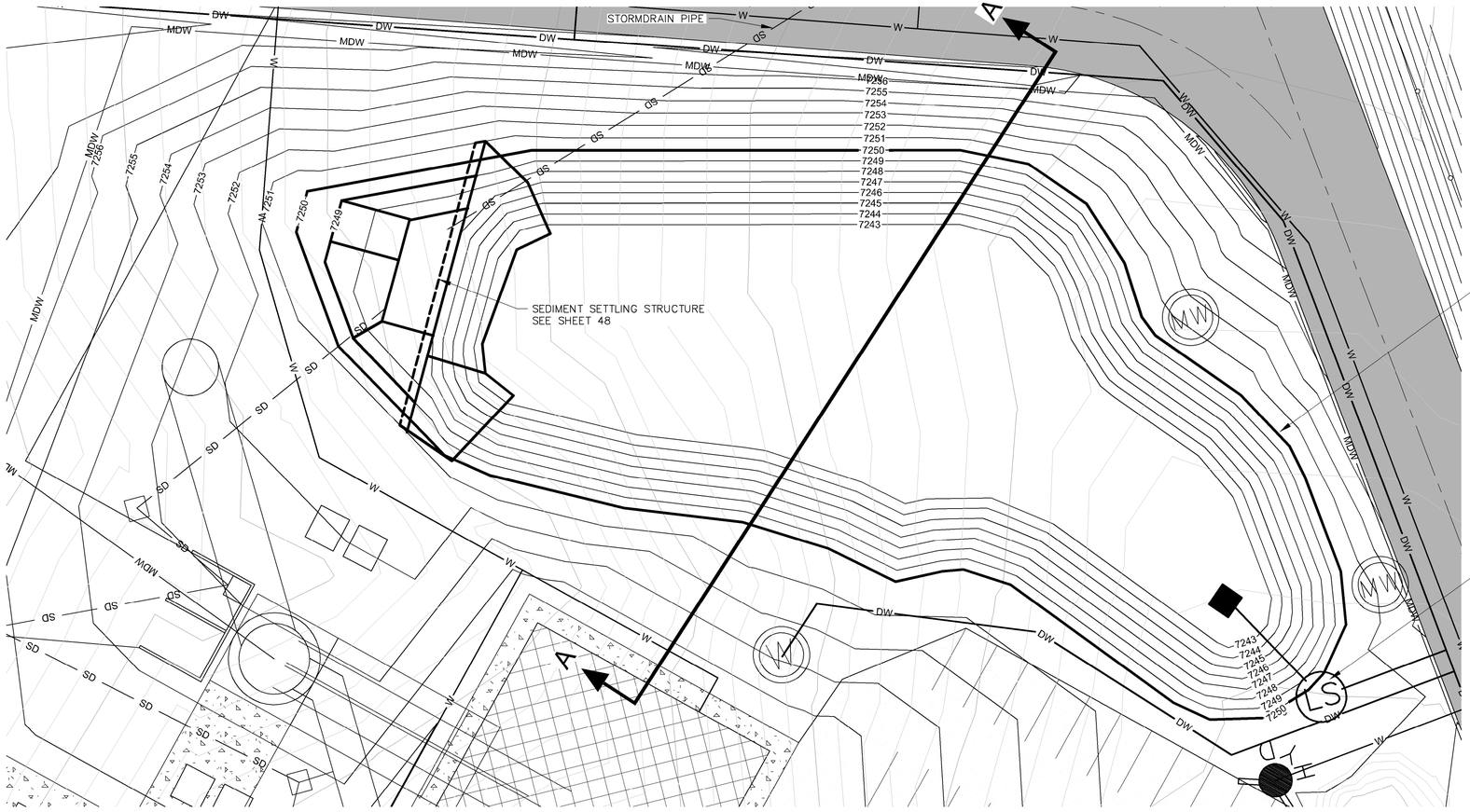
SHEET TITLE
SECTION 16 MINE NON-ORE STOCKPILE RUNOFF RETENTION POND DETAILS

SHEET NO:
SHEET 54 OF 85

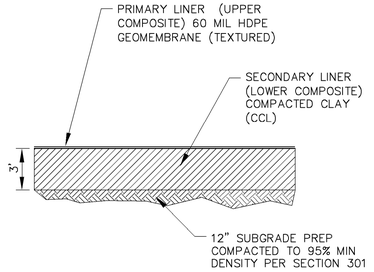
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0 10' 20'

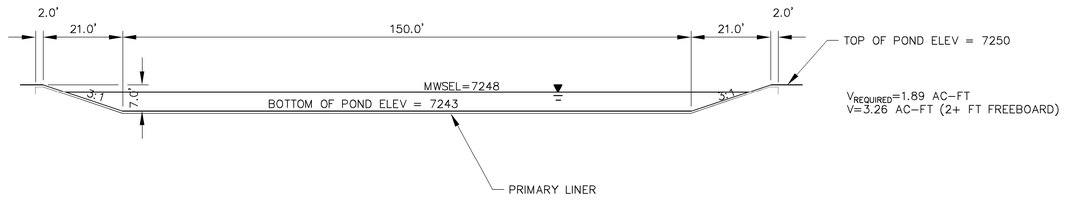
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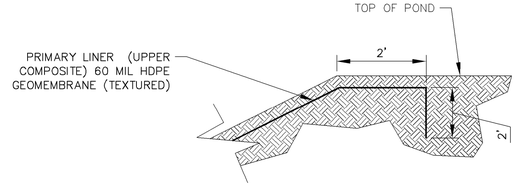
SECTION 16 NORTH RETENTION POND PLAN



RETENTION POND LINER STANDARD DESIGN



SECTION A–A



TYPICAL LINER ANCHOR SECTION

Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

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NOT FOR
CONSTRUCTION

SEAL

PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

BY	DESCRIPTION	DATE	REV.

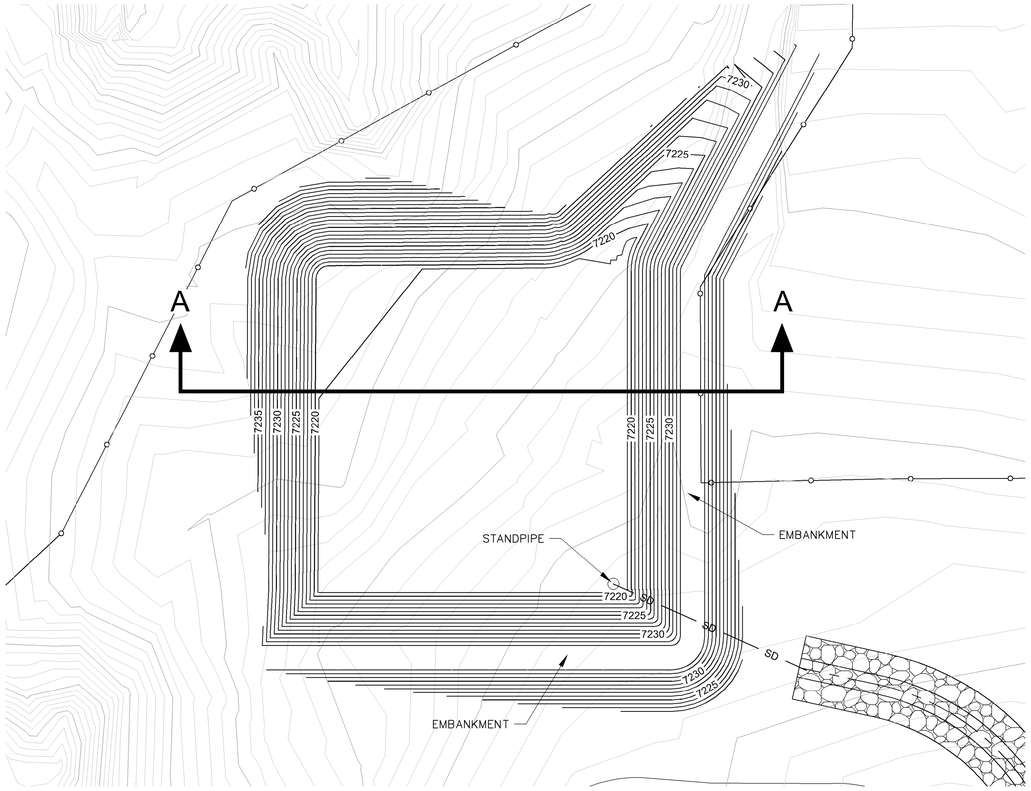
PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
SECTION 16 MINE NORTH RETENTION POND DETAILS

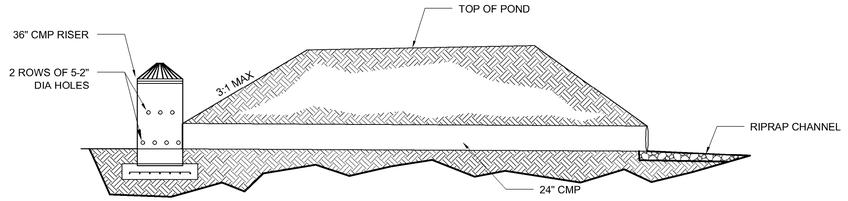
SHEET NO:
SHEET 55 OF 85

0 10' 20'

9/27/11 M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 22 POND DTLS.DWG

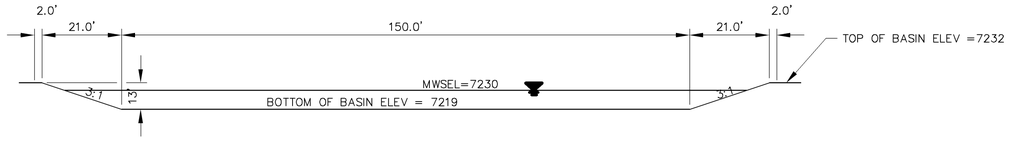


SECTION 16 FACILITIES DETENTION BASIN PLAN



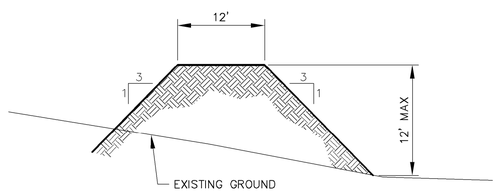
TYPICAL STANDPIPE DETAIL

NTS



$V_{REQUIRED}$=9.44 AC-FT

SECTION A-A



TYPICAL EMBANKMENT SECTION

SCALE: NTS





Roca Honda Resources LLC.
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Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
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SEAL

PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE

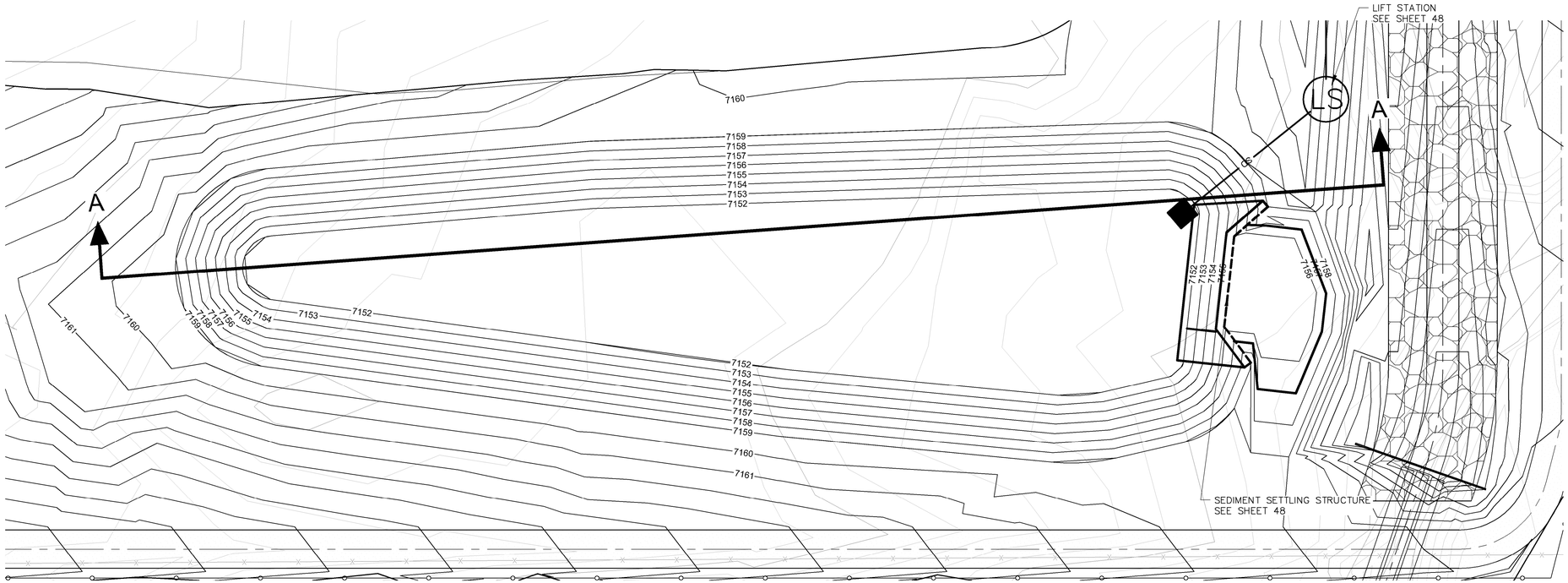
SECTION 16 MINE DETENTION BASIN DETAILS

SHEET NO:

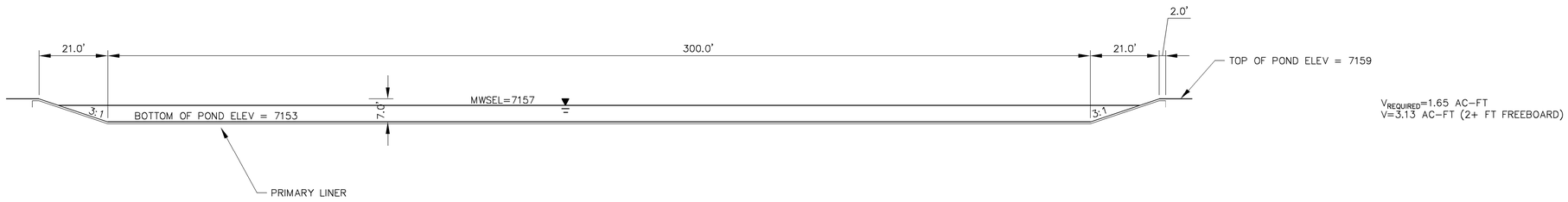
SHEET 56 OF 85

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9/27/11

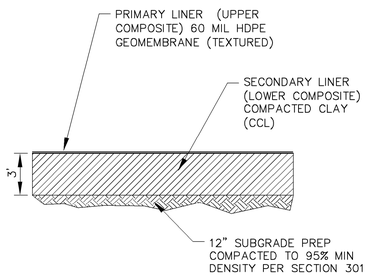


SECTION 10 SOUTH RETENTION POND PLAN

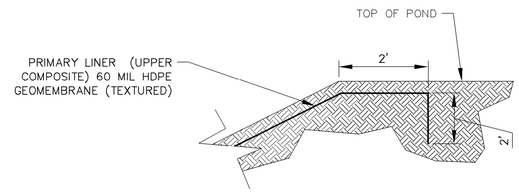


$V_{REQUIRED}$=1.65 AC-FT
V=3.13 AC-FT (2+ FT FREEBOARD)

SECTION A-A



RETENTION POND LINER STANDARD DESIGN



TYPICAL LINER ANCHOR SECTION





Roca Honda Resources LLC.
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Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

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CONSTRUCTION

SEAL

PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

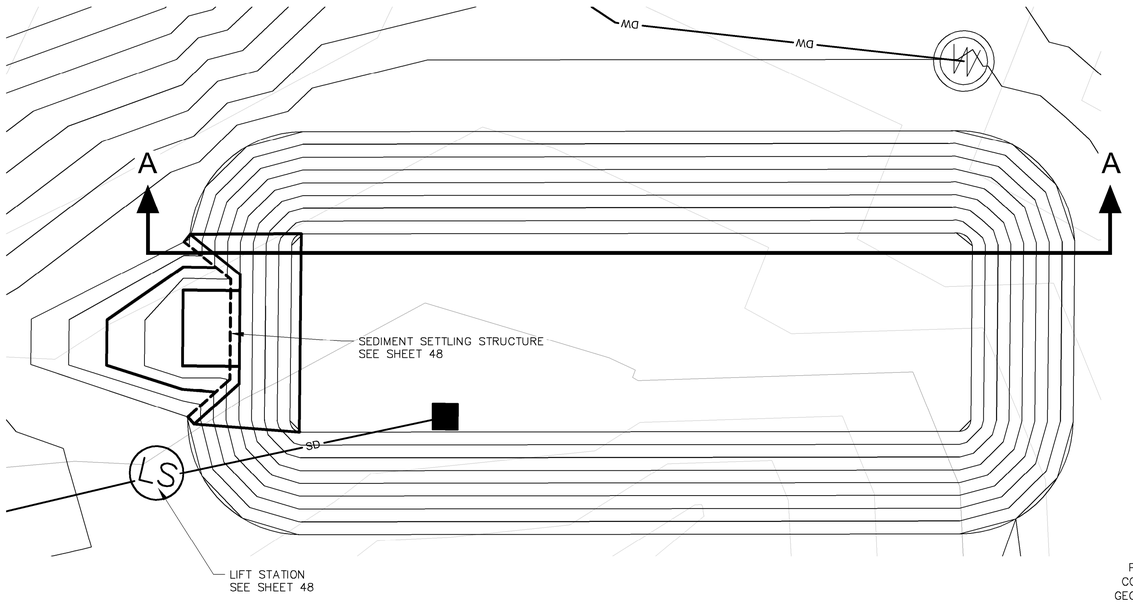
SHEET TITLE

SECTION 10 MINE
SOUTH RETENTION
POND DETAILS

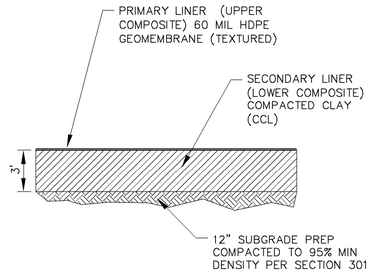
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SHEET 57 OF 85

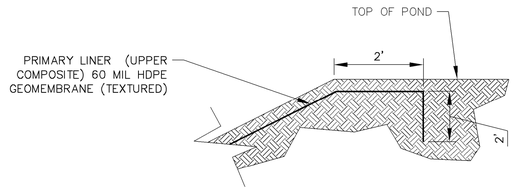
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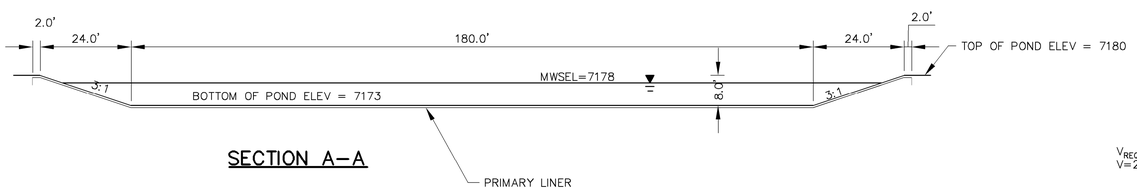
SECTION 10 EAST RETENTION POND PLAN



RETENTION POND LINER STANDARD DESIGN



TYPICAL LINER ANCHOR SECTION



SECTION A–A

$V_{REQUIRED}$=1.40 AC–FT
V=2.52 AC–FT (2+ FT FREEBOARD)

Roca Honda Resources LLC.
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Santa Fe, NM 87507

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4900 Lang Avenue Ne
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NOT FOR
CONSTRUCTION

PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

	BY	DESCRIPTION	DATE	REV.

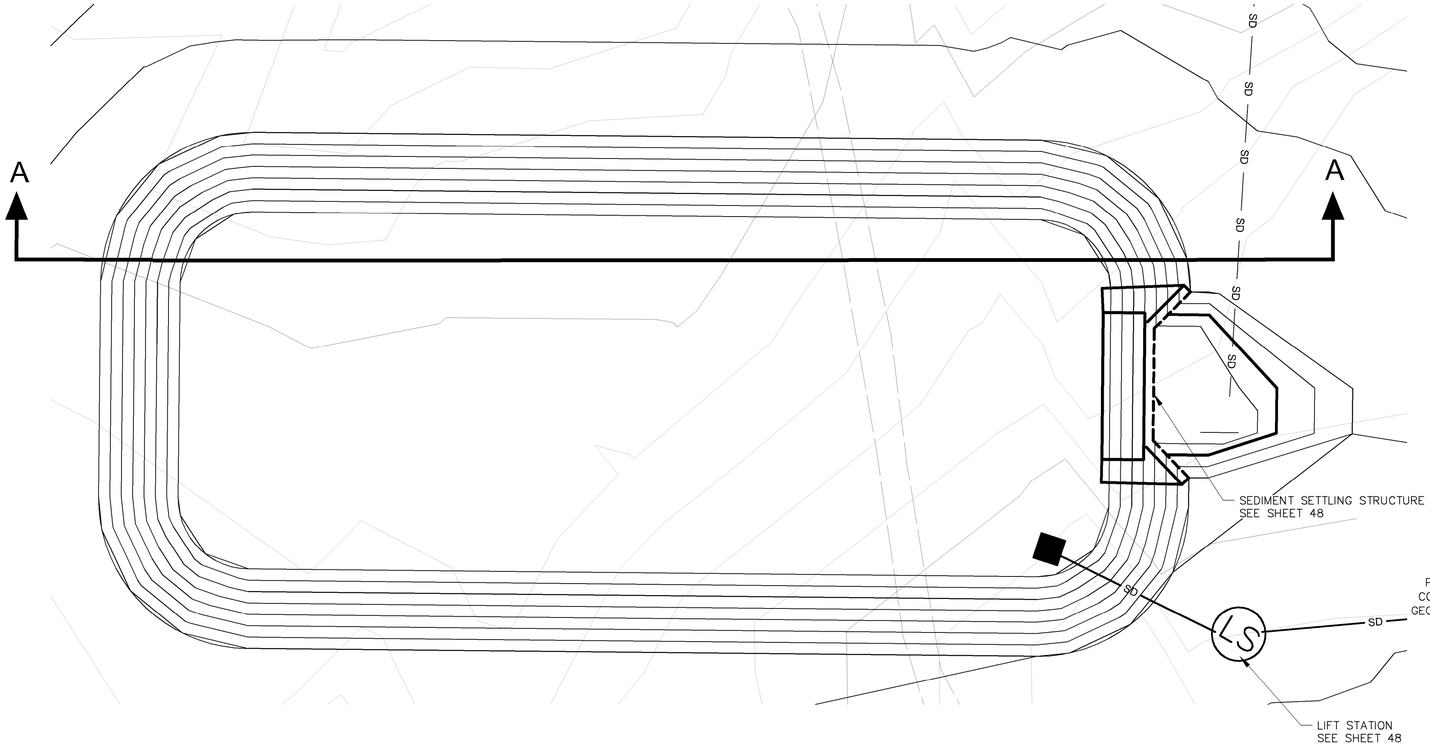
PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
SECTION 10 MINE EAST RETENTION POND DETAILS

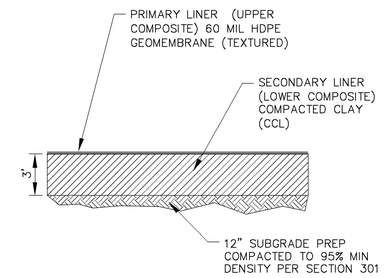
SHEET NO:
SHEET 58 OF 85

0 10' 20'

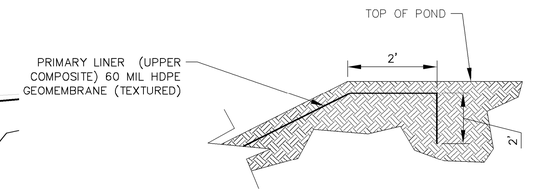
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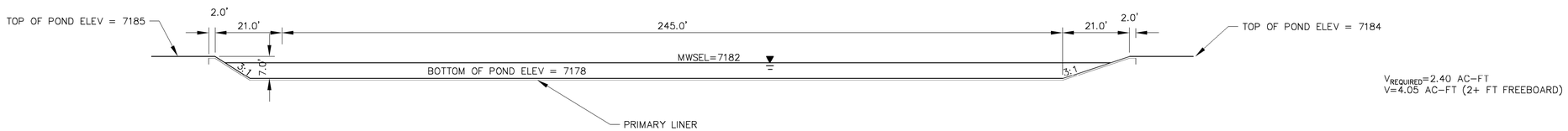
SECTION 10 WEST RETENTION POND PLAN



RETENTION POND LINER STANDARD DESIGN



TYPICAL LINER ANCHOR SECTION



SECTION A–A

$V_{REQUIRED}$=2.40 AC–FT
V=4.05 AC–FT (2+ FT FREEBOARD)

Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

60% SUBMITTAL
NOT FOR CONSTRUCTION

SEAL

PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

BY	DESCRIPTION	DATE	REV.

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE

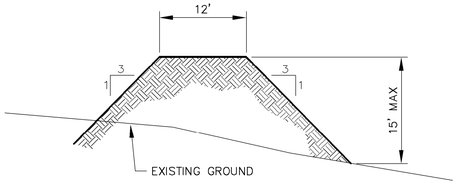
SECTION 10 MINE WEST RETENTION POND DETAILS

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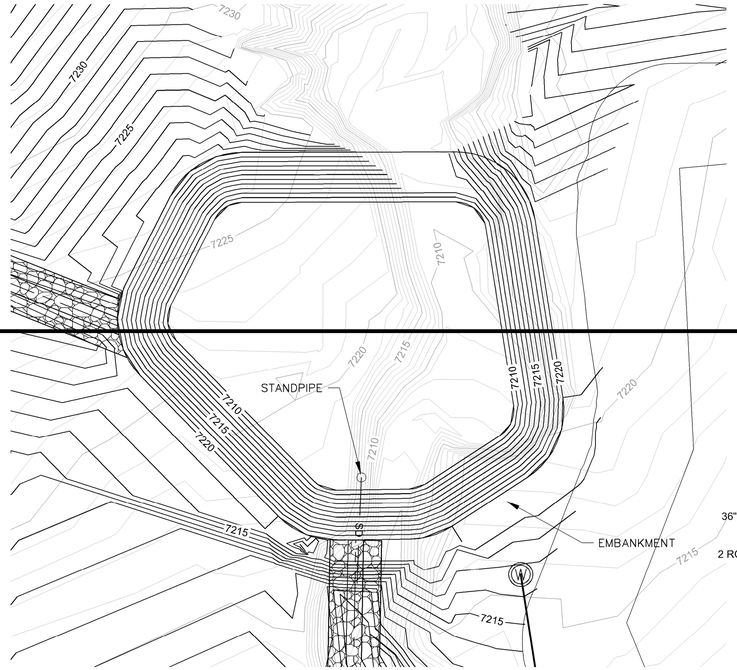
SHEET 59 OF 85

0 10' 20'

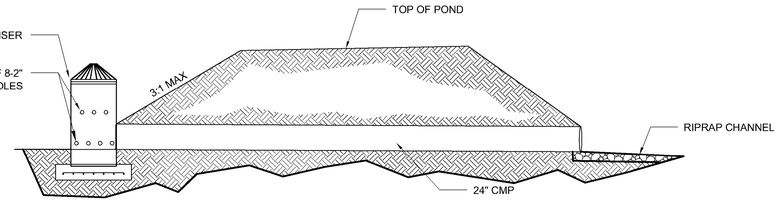
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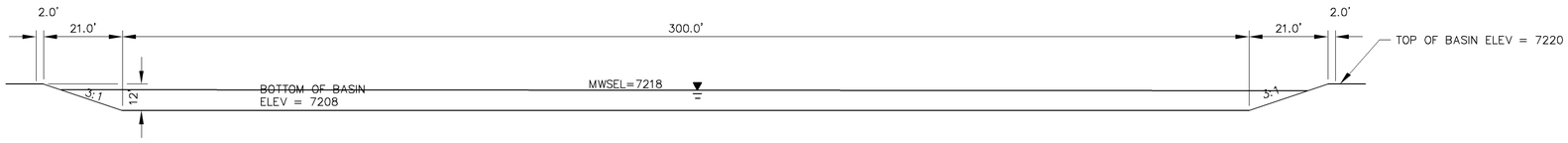
TYPICAL EMBANKMENT SECTION
SCALE: NTS



SECTION 10 DETENTION BASIN PLAN



TYPICAL STANDPIPE DETAIL
NTS



SECTION A–A

$V_{REQUIRED}$=8.87 AC-FT

Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
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NOT FOR
CONSTRUCTION

PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE

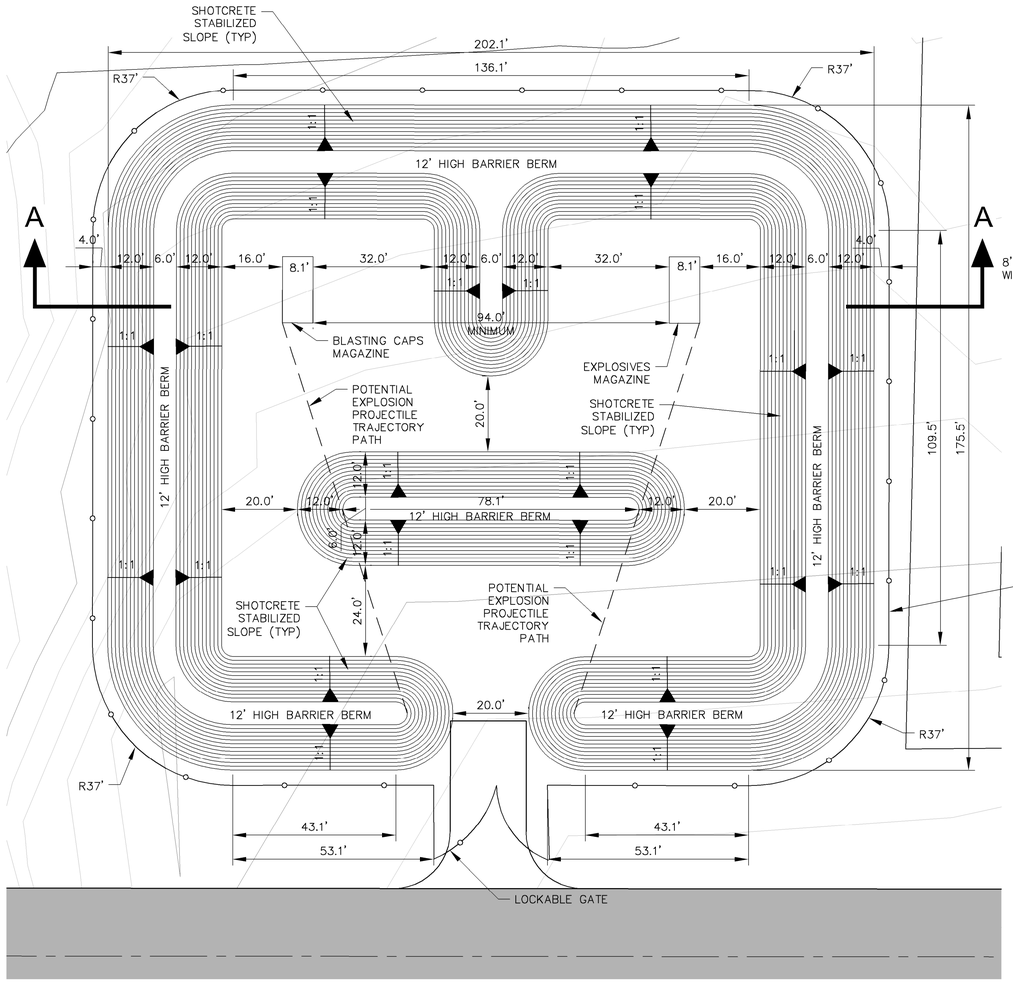
SECTION 10 MINE
DETENTION
BASIN DETAILS

SHEET NO:

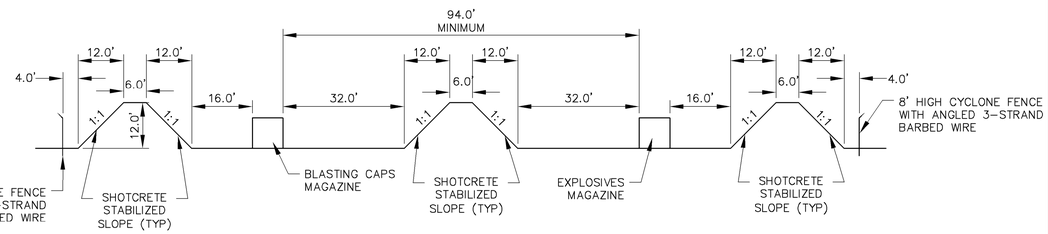
SHEET 60 OF 85

0 10' 20'

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 10\1160019 22A DET BASIN DTLS.DWG
1/6/12



SECTION 16 AND SECTION 10 HE STORAGE MAGAZINE PLAN



SECTION A–A

Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

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SEAL

PROJECT NAME

STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

BY	DESCRIPTION	DATE	REV.

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE

SECTIONS 16 AND 10 HE STORAGE MAGAZINE DETAILS

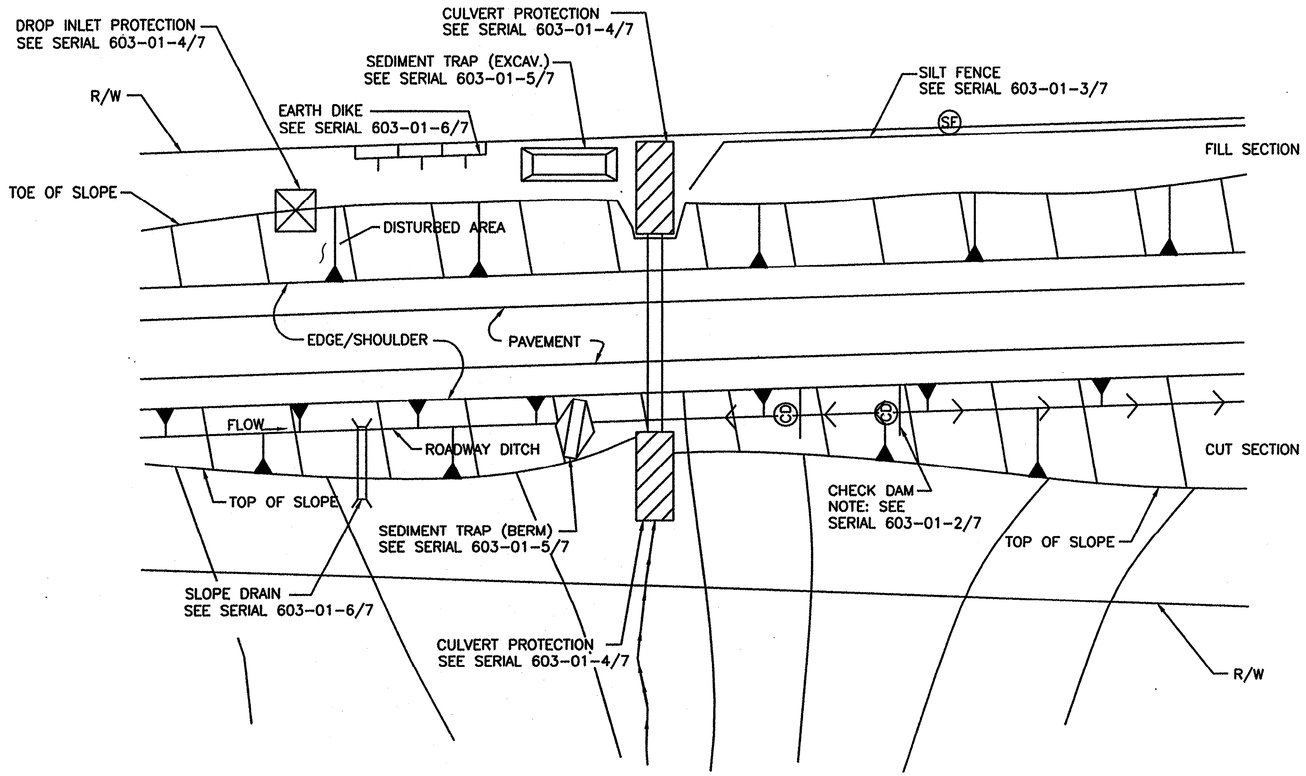
SHEET NO:

SHEET 61 OF 85

N

0 10' 20'

9/27/11 M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 23 HE-MAG DTLS.DWG



TYPICAL USAGE OF SELECTED EROSION AND SEDIMENT CONTROL MEASURES

STANDARD SYMBOLS FOR EROSION AND SEDIMENT CONTROL MEASURES

SILT FENCE — (SF)

STRAW BALE — (SB)

EARTH DIKE — (ED)

DIVERSION CHANNEL (SWALE) — (DC)

PIPE SLOPE DRAIN

DROP INLET PROTECTION

CULVERT PROTECTION

CHECK DAM — (CD)

SEDIMENT TRAP, BERM

SEDIMENT TRAP, EXCAVATED

SEDIMENT BASIN

TRIANGULAR SEDIMENT FILTER DIKE — TSFD

TEMPORARY EROSION & SEDIMENT CONTROL MEASURES (T.E.S.C.M.)

GENERAL NOTES

1. THE SOIL RETENTION BLANKET INSTALLATION DETAILS SHOWN FOR CULVERT PROTECTION SHALL BE USED FOR ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES UTILIZING SOIL RETENTION BLANKETS UNLESS OTHERWISE NOTED.
2. ROCK PLATING USED IN THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THESE SHEETS SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES UNLESS OTHERWISE INDICATED.
3. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES PLACED WITHIN THE CONSTRUCTION CLEAR ZONE SHALL BE INSTALLED WITH 8:1 SLOPES PARALLEL TO TRAFFIC AND 4:1 SLOPES PERPENDICULAR TO TRAFFIC.
4. SEDIMENT TRAPS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED.
5. CHECK DAMS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN THE DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE CHECK DAM.
6. CULVERT PROTECTIONS SHALL BE INSTALLED UPON INITIATION OF EARTH WORK ACTIVITIES AND MAINTAINED AS MUCH AS PRACTICAL UNTIL STABILIZATION IS COMPLETED AND ACCEPTED. CULVERT PROTECTIONS MAY BE REMOVED FOR PERIODS OF TIME AS REQUIRED DURING CONSTRUCTION TO COMPLETE ADJACENT IMPROVEMENTS.
7. THE CONTRACTOR MAY CONSTRUCT AN EARTH DIKE AS SHOWN, OR RELOCATE THE CHECK DAMS AS CONSTRUCTION PROGRESSES. NO DIRECT PAYMENT SHALL BE MADE FOR RELOCATION OF THE CHECK DAMS.
8. STRAW BALES ARE NOT INTENDED FOR USE ON NEW MEXICO DEPARTMENT OF TRANSPORTATION PROJECTS.

NO.	DATE	REV. BY	DESCRIPTION

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

TEMPORARY EROSION & SEDIMENT CONTROL MEASURES

APPROVED Raymunda VanHoven 11/29/12
DESIGN ENGINEER DATE

DESIGNED BY___ DRAWN BY ___ CHECKED BY ___

603-01-1/7 SERIAL 1 OF 7

Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
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SEAL

60% SUBMITTAL NOT FOR CONSTRUCTION

PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

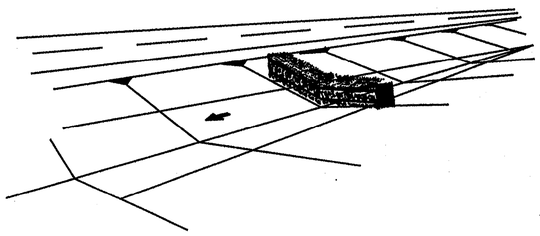
NO.	DATE	REV. BY	DESCRIPTION

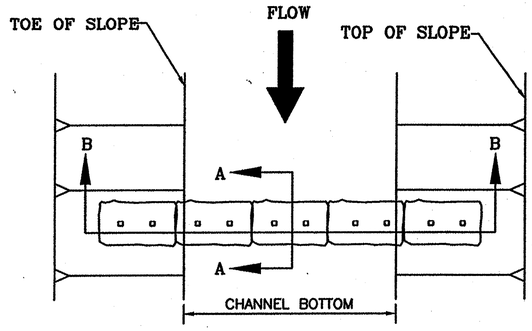
PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
TYPICAL EROSION CONTROL MEASURES

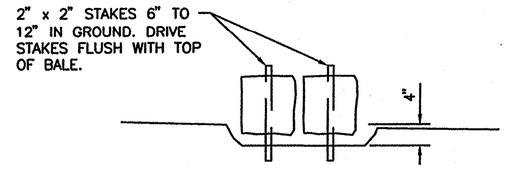
SHEET NO:
SHEET 62 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 25 EROSION CONTR DET.DWG
9/27/11

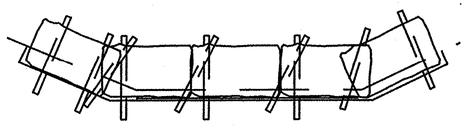




PLAN

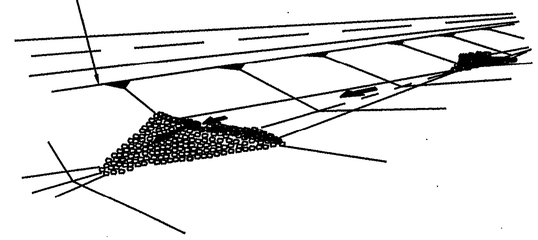


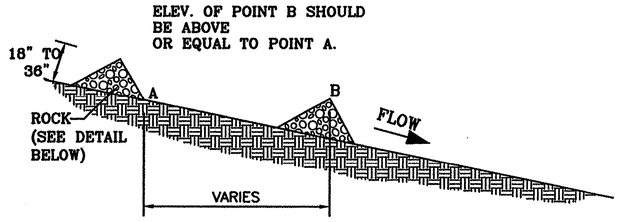
SECTION A–A

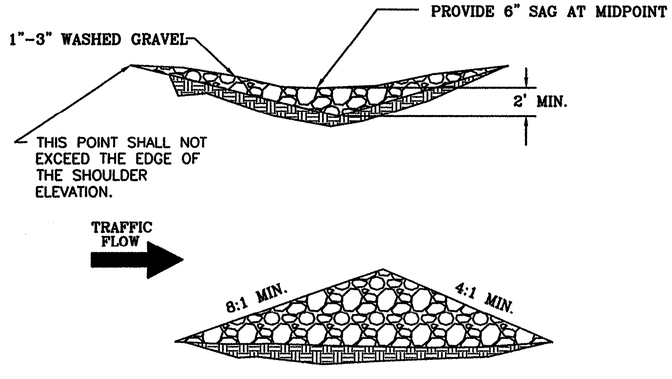


SECTION B–B

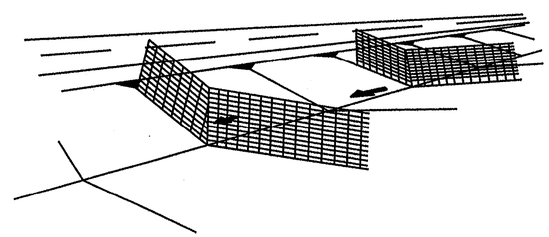
TYPE III
(STRAW BALE)

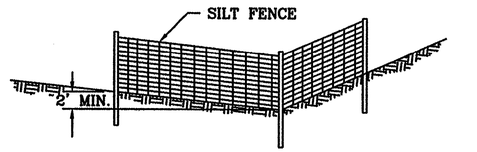


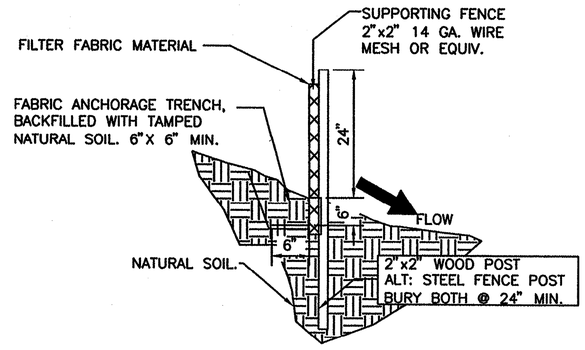




TYPE II
STONE DAM







TYPE I SILT FENCE

NO.	DATE	REV. BY	DESCRIPTION
			REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

TEMPORARY EROSION & SEDIMENT CONTROL MEASURES CHECK DAMS

APPROVED Raymunda VanHoven 11/29/04
DESIGN ENGINEER DATE

DESIGNED BY___ DRAWN BY ___ CHECKED BY ___

603-01-2/7 SHEET 2 OF 7

Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

60% SUBMITTAL NOT FOR CONSTRUCTION

SEAL

PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

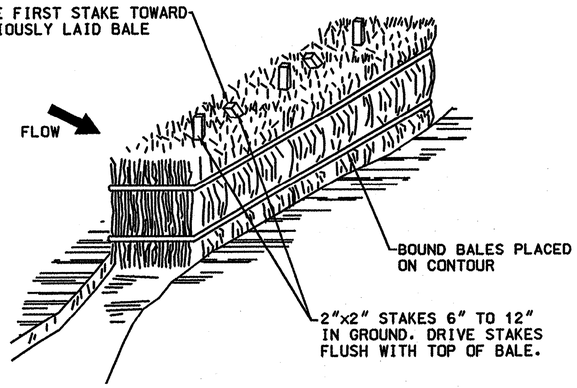
BY	DESCRIPTION	DATE	REV.

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

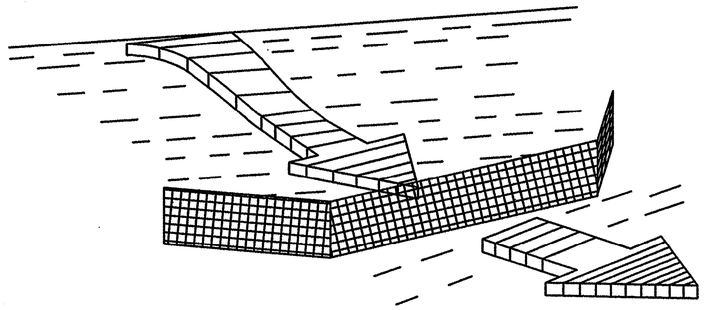
SHEET TITLE
TYPICAL EROSION CONTROL MEASURES

SHEET NO:
SHEET 63 OF 85

M:\VFS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 25 EROSION CONTR DET.DWG
9/27/11



TYPE II
STRAW BALE OPTION



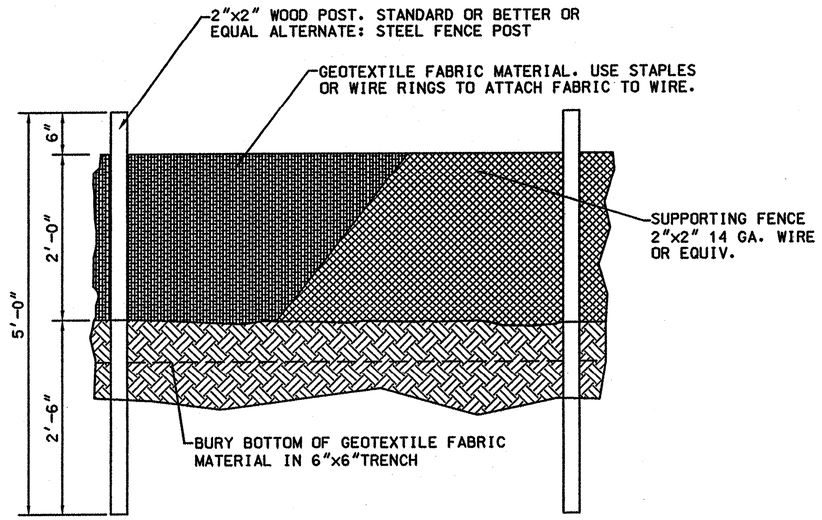
TYPE I
SILT FENCE

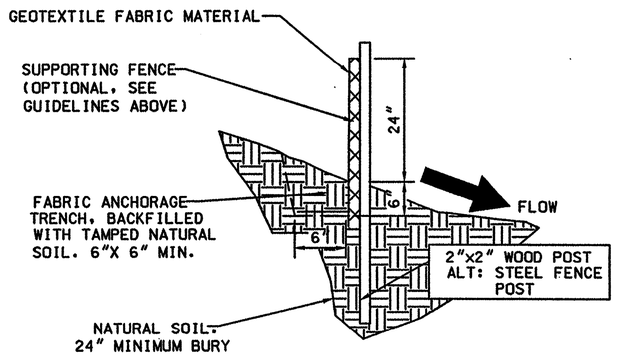
NOTES: SILT FENCE AND CHECK DAM

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE POST SPACING FOR SILT FENCES TO MINIMIZE MAINTENANCE.

1. POST SPACING SHALL BE 4 FT. MAXIMUM WITHOUT SUPPORTING FENCE, 10 FT. MAXIMUM WITH SUPPORTING FENCE.
2. POSTS FOR 4 FT. MAXIMUM POST SPACING SHALL BE 2 INCH SQUARE NOMINAL SIZE OR HEAVIER WOOD POSTS, OR STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 2 LBS. PER. LINEAR FOOT.

   POSTS FOR 10 FT. MAXIMUM POST SPACING SHALL BE 4 INCH SQUARE NOMINAL SIZE OR HEAVIER WOOD POSTS, OR STEEL POSTS AS SPECIFIED ABOVE.
3. SUPPORTING FENCE SHALL BE WIRE MESH (14 GA. MIN., 1 INCH MAX. MESH OPENINGS), SNOW FENCE, PLASTIC FENCE OR APPROVED.
4. SUPPORTING FENCE SHALL BE FASTENED SECURELY TO POSTS WITH STAPLES OR WIRE TIES. GEOTEXTILE FABRIC SHALL BE FASTENED SECURELY TO SUPPORTING FENCE WITH WIRE TIES SPACED AT 2 FT. CENTERS ALONG THE TOP AND MID-SECTION. WHEN A SUPPORTING FENCE IS NOT USED, GEOTEXTILE FABRIC SHALL BE SECURELY FASTENED TO POSTS WITH STAPLES OR WIRE TIES.
5. WHEN SILT FENCE IS USED FOR CHECK DAMS INSTALLED IN DITCHES, A SUPPORTING FENCE SHALL BE PROVIDED, WITH MAXIMUM POST SPACING OF 10 FT.
6. STANDARD "T" OR "U" SECTION STEEL POSTS SHALL NOT BE USED WITHIN THE CONSTRUCTION CLEAR ZONE RECOVERY AREA.
7. STRAW BALES ARE NOT INTENDED FOR USE ON NEW MEXICO DEPARTMENT OF TRANSPORTATION PROJECTS.





NO.	DATE	REV. BY	DESCRIPTION
REVISIONS (OR CHANGE NOTICES)			

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

TEMPORARY EROSION & SEDIMENT CONTROL MEASURES SILT FENCE

APPROVED Raymunda Von Hoven 11/29/12
DESIGN ENGINEER — DATE

DESIGNED BY___ DRAWN BY___ CHECKED BY___

603-01-3/7

Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

60% SUBMITTAL NOT FOR CONSTRUCTION

SEAL

PROJECT NAME: STRATHMORE MINERALS ROCA HONDA MINES SECTION 9, 10 & 16 SITE DEVELOPMENT

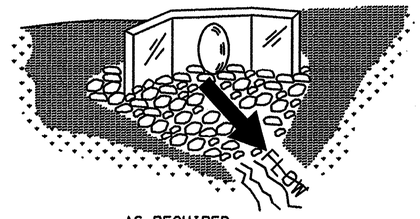
NO.	DESCRIPTION	DATE	BY

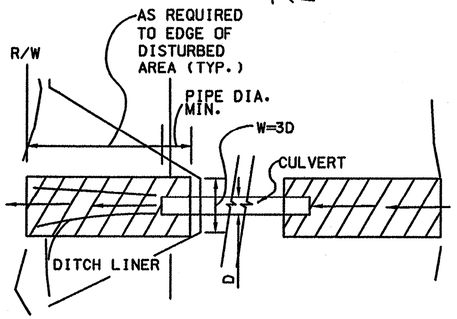
PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
TYPICAL EROSION CONTROL MEASURES

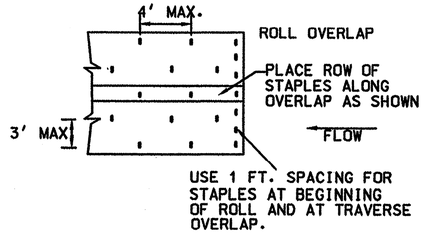
SHEET NO:
SHEET 64 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 25 EROSION CONTR DET.DWG
9/27/11

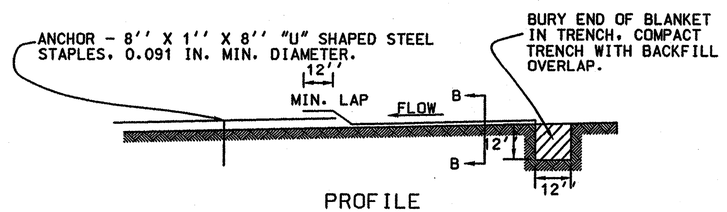




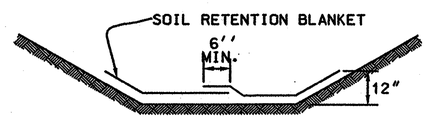
TYPICAL DITCH LINER INSTALLATIONS AT CULVERTS



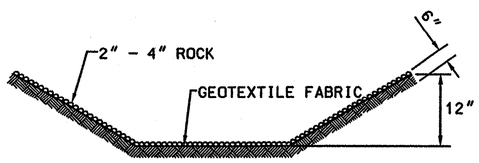
SOIL RETENTION BLANKET STAPLE PATTERN



PROFILE
DITCH LINER



SECTION B-B

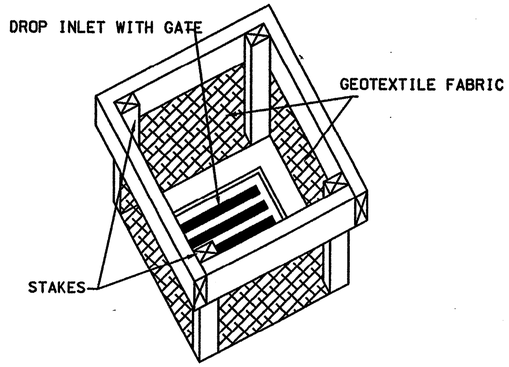


SECTION B-B

NOTES: CULVERT PROTECTION

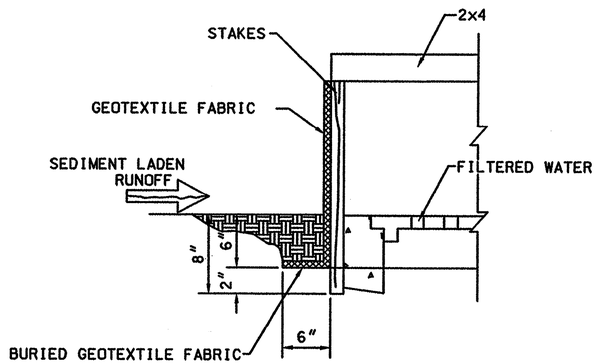
1. WHEN CULVERT PROTECTION IS SPECIFIED, EITHER SOIL RETENTION BLANKETS OR SOIL RETENTION ROCK MAY BE PROVIDED.
2. THE CULVERT PROTECTION WIDTH REQUIRED SHALL BE IN ACCORDANCE WITH THESE DETAILS UNLESS SPECIFIED OTHERWISE.
3. THE SOIL RETENTION BLANKET INSTALLATION SHOWN OUTLINES MINIMUM REQUIREMENTS. MANUFACTURER'S RECOMMENDATIONS SHALL BE USED IF THEY ARE MORE STRINGENT.

CULVERT PROTECTION

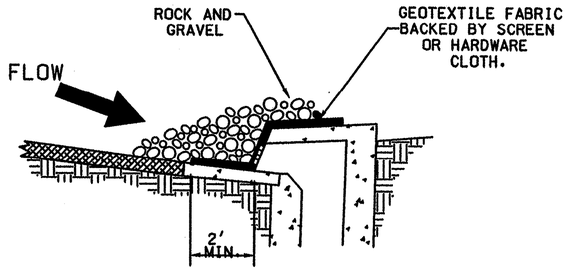


TYPE I

NOTE: WHEN SPECIFIED, ROCKS OR STRAW BALES CAN BE SUBSTITUTED FOR SILT FENCE.



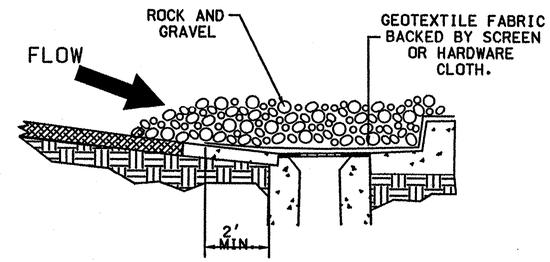
DROP INLET PROTECTION



TYPE I CURB OPENING

NOTES: GRAVEL INLET PROTECTION

1. THIS INSTALLATION IS FOR A TYPE I CURB DROP INLET ONLY. THE TYPE II, III TO "N" INSTALLATION IS SIMILAR.
2. THE SPACING OF THE LONGITUDINAL BRACING SHALL NOT EXCEED 5 FT.



TYPE II CURB DROP INLET

NO.	DATE	REV. BY	DESCRIPTION
			REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

TEMPORARY EROSION & SEDIMENT CONTROL MEASURES
CULVERT & DROP INLET PROTECTION

APPROVED Raymunda Van Hoven 11/29/09
DESIGN ENGINEER DATE

DESIGNED BY___ DRAWN BY___ CHECKED BY___

603-01-4/7

Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

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SEAL

PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

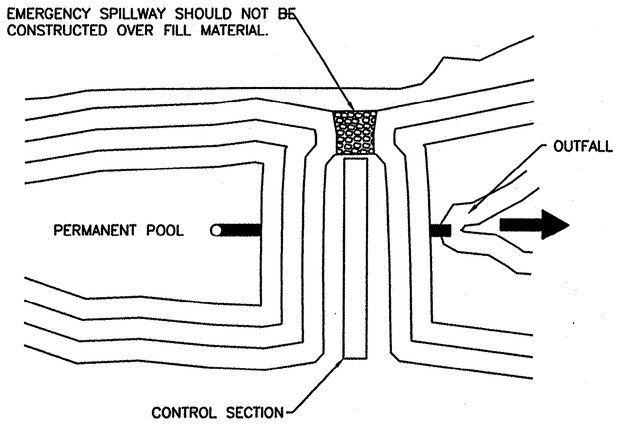
NO.	DESCRIPTION	DATE	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

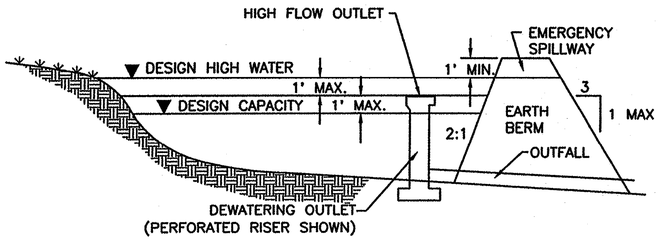
SHEET TITLE
TYPICAL EROSION CONTROL MEASURES

SHEET NO:
SHEET 65 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 25 EROSION CONTR DET.DWG
9/27/11

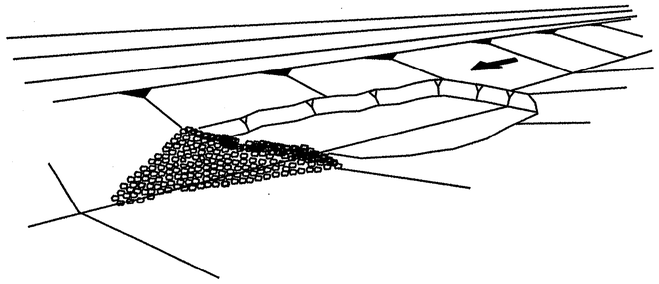


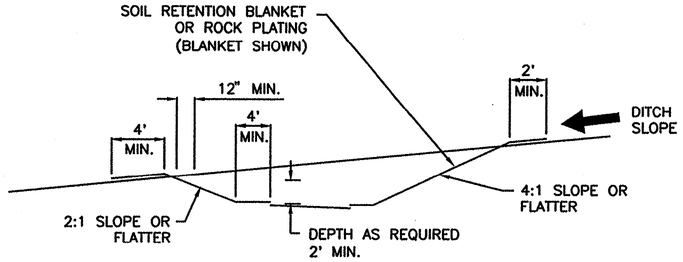
PLAN VIEW



CROSS SECTION

SEDIMENT BASIN



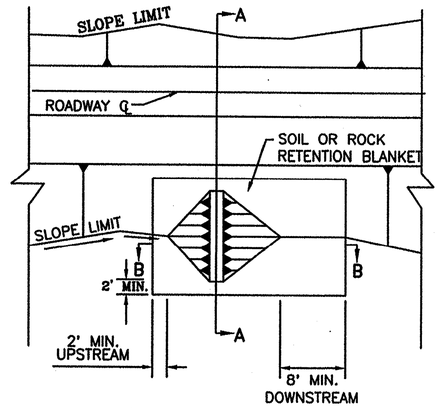


SEDIMENT BASIN, EXCAVATED

NOTES: SEDIMENT TRAP

1. TEMPORARY SEDIMENT TRAPS MAY BE CONSTRUCTED BY EXCAVATION ALONE OR BY EXCAVATION IN COMBINATION WITH AN EMBANKMENT.
2. TEMPORARY SEDIMENT TRAPS ARE OFTEN USED IN CONJUNCTION WITH A DIVERSION DIKE OR SWELL.
3. THE DRAINAGE AREA FOR THE SEDIMENT TRAP SHOULD NOT EXCEED 5 DISTURBED ACRES.
4. THE TRAP MUST BE ACCESSIBLE FOR EASE OF REGULAR MAINTENANCE, WHICH IS CRITICAL TO ITS PROPER FUNCTIONING.
5. SEDIMENT TRAPS ARE TEMPORARY MEASURES AND SHOULD NOT REMAIN IN PLACE LONGER THAN 18 TO 24 MONTHS.
6. THE EMBANKMENT MAY NOT EXCEED 5 FT. IN HEIGHT.
7. THE RECOMMENDED MINIMUM WIDTH AT THE TOP OF THE EMBANKMENT IS BETWEEN 2 FT. AND 5 FT.

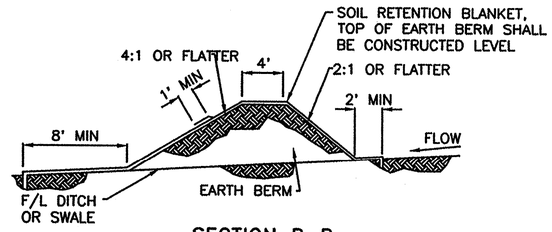
SEDIMENT TRAP



PLAN



SECTION A–A



SECTION B–B

EARTH DIKE (BERM)

NO.	DATE	REV. BY	DESCRIPTION

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

T.E.S.C.M. SEDIMENT BASIN, SEDIMENT TRAP & EARTH DIKE

APPROVED Raymunda Vanhoven 11/29/12
DESIGN ENGINEER DATE

DESIGNED BY___ DRAWN BY ___ CHECKED BY ___

603-01-5/7 SHEET 5 OF 7

Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
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Albuquerque, NM 87109
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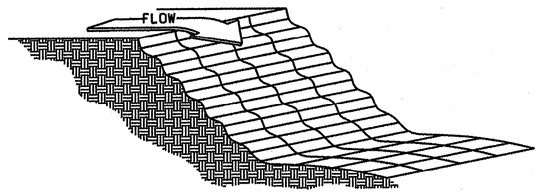
BY	DESCRIPTION	DATE	REV.

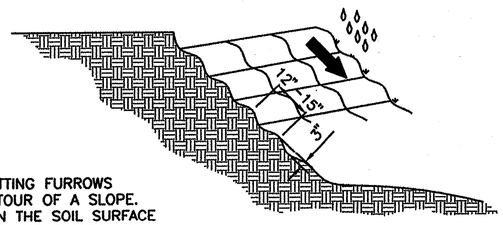
PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
TYPICAL EROSION CONTROL MEASURES

SHEET NO:
SHEET 66 OF 85

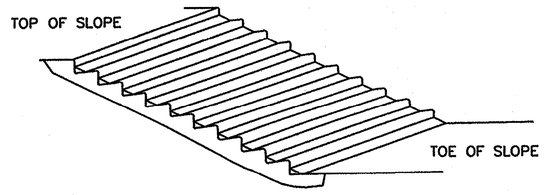
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9/27/11

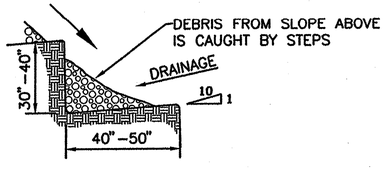




GROOVING IS CUTTING FURROWS ALONG THE CONTOUR OF A SLOPE. IRREGULARITIES IN THE SOIL SURFACE CATCH RAINWATER AND PROVIDE SOME RETENTION OF LIME, FERTILIZER AND SEED.

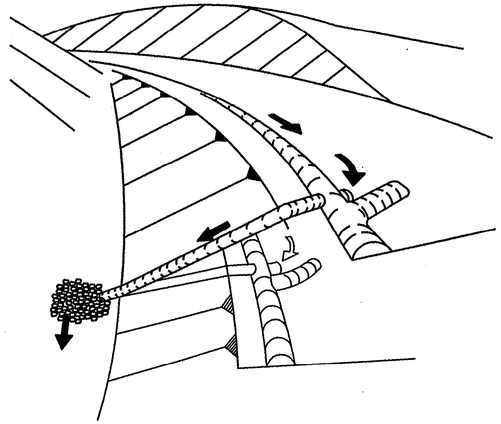
GROOVING SLOPES

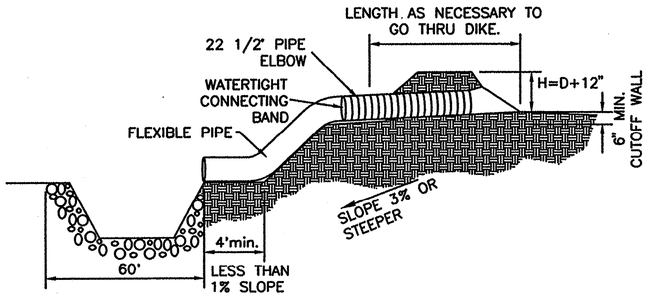


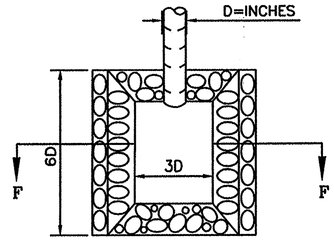


STAIR STEPPING CUT SLOPE

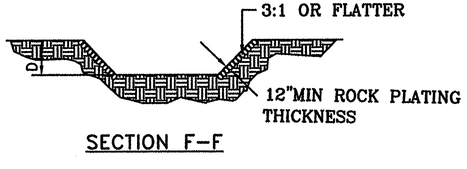
SURFACE ROUGHENING







RIPRAP APRON PLAN



SECTION F–F

SLOPE DRAIN

NOTES: PIPE SLOPE DRAIN

1. THE FLEXIBLE PIPE SHALL BE THE SAME DIAMETER AS THE INLET PIPE AND SHALL BE CONSTRUCTED OF A DURABLE MATERIAL WITH HOLD–DOWN GROMMETS SPACED AT 10 FT. ON CENTER.
2. THE FLEXIBLE PIPE SHALL BE SECURELY FASTENED TO THE CORRUGATED METAL OR HIGH DENSITY POLYETHYLENE PIPE WITH METAL STRAPPING OR WATERTIGHT CONNECTING COLLARS.
3. THE FLEXIBLE PIPE SHALL BE STAKED AT 10 FT. CENTERS ALONG THE SLOPE USING MINIMUM 4 INCH SQUARE WOOD POSTS OR STANDARD STEEL POSTS DRIVEN 2 FT. MINIMUM INTO THE GROUND.
4. RIGID PIPE SHALL BE ANCHORED AT BENDS. ANCHORAGE SHALL CONSIST OF A MINIMUM 4 INCH SQUARE WOOD POSTS OR STANDARD STEEL POSTS DRIVEN 2 FT. MINIMUM INTO GROUND, OR EARTHEN THRUST BLOCK.
5. PAYMENT OF BASIN ITEMS ARE INCIDENTAL TO THE COST OF FLEXIBLE STORM DRAIN PIPE.
6. FOR PIPE DIAMETER ON TEMPORARY SLOPE DRAIN SEE TABLE BELOW

TEMPORARY SLOPE DRAIN PIPES

Runoff Flow Rate (cfs)	Pipe Diameter Required (inches)
0 – 6.0	18
6.0 – 9.0	21
9.0 – 12.0	24
12.0 – 20.0	30

NO.	DATE	REV. BY	DESCRIPTION

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

TEMPORARY EROSION & SEDIMENT CONTROL MEASURES PIPE SLOPE DRAIN & SURFACE ROUGHENING

APPROVED Raymisha VanRiver 11/29/04
DESIGN ENGINEER DATE

DESIGNED BY___ DRAWN BY ___ CHECKED BY ___

603-01-6/7 SHEET 6 OF 7

RHR ROCA HONDA RESOURCES LLC
Roca Honda Resources LLC.
4001 Office Court Drive Suite 102
Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

SEAL

60% SUBMITTAL NOT FOR CONSTRUCTION

PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

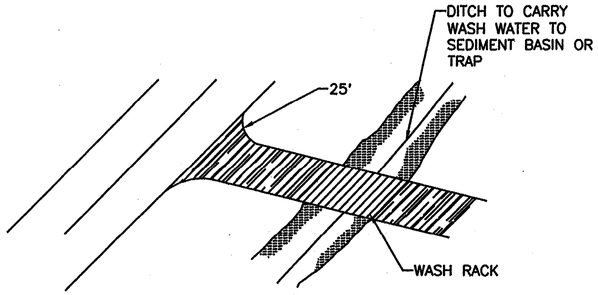
REV.	DATE	DESCRIPTION	BY

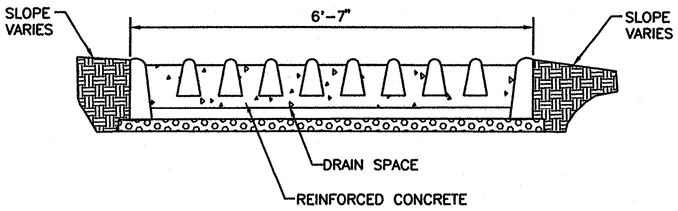
PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
TYPICAL EROSION CONTROL MEASURES

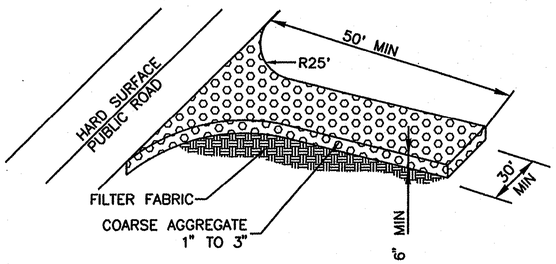
SHEET NO:
SHEET 67 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 25 EROSION CONTR DET.DWG
9/27/11

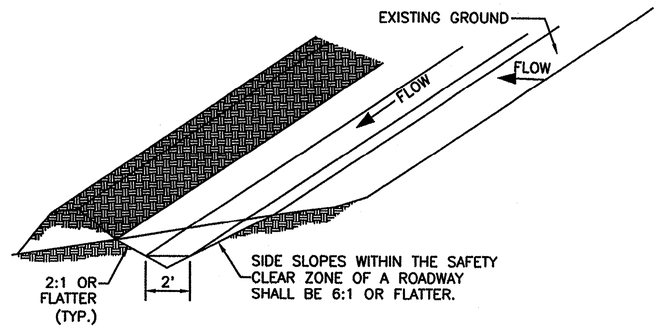




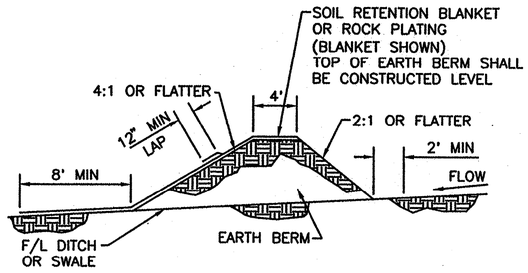
WASH RACK



OFFSITE TRACKING PREVENTION



TYPICAL SWALE CONFIGURATION



FILTER FABRIC DIVERSION DIKE

DIVERSION DIKE

NO.	DATE	REV. BY	DESCRIPTION

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

T.E.S.C.M. OFFSITE TRACKING PREVENTION & DIVERSION DIKE

APPROVED Raymund La Van Hoven 11/29/09
DESIGN ENGINEER DATE

DESIGNED BY___ DRAWN BY ___ CHECKED BY ___

603-01-7/7 SHEET 7 OF 7

Roca Honda Resources LLC.
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4900 Lang Avenue Ne
Albuquerque, NM 87109
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SEAL

60% SUBMITTAL NOT FOR CONSTRUCTION

PROJECT NAME
STRATHMORE MINERALS
ROCA HONDA MINES
SECTION 9, 10 & 16
SITE DEVELOPMENT

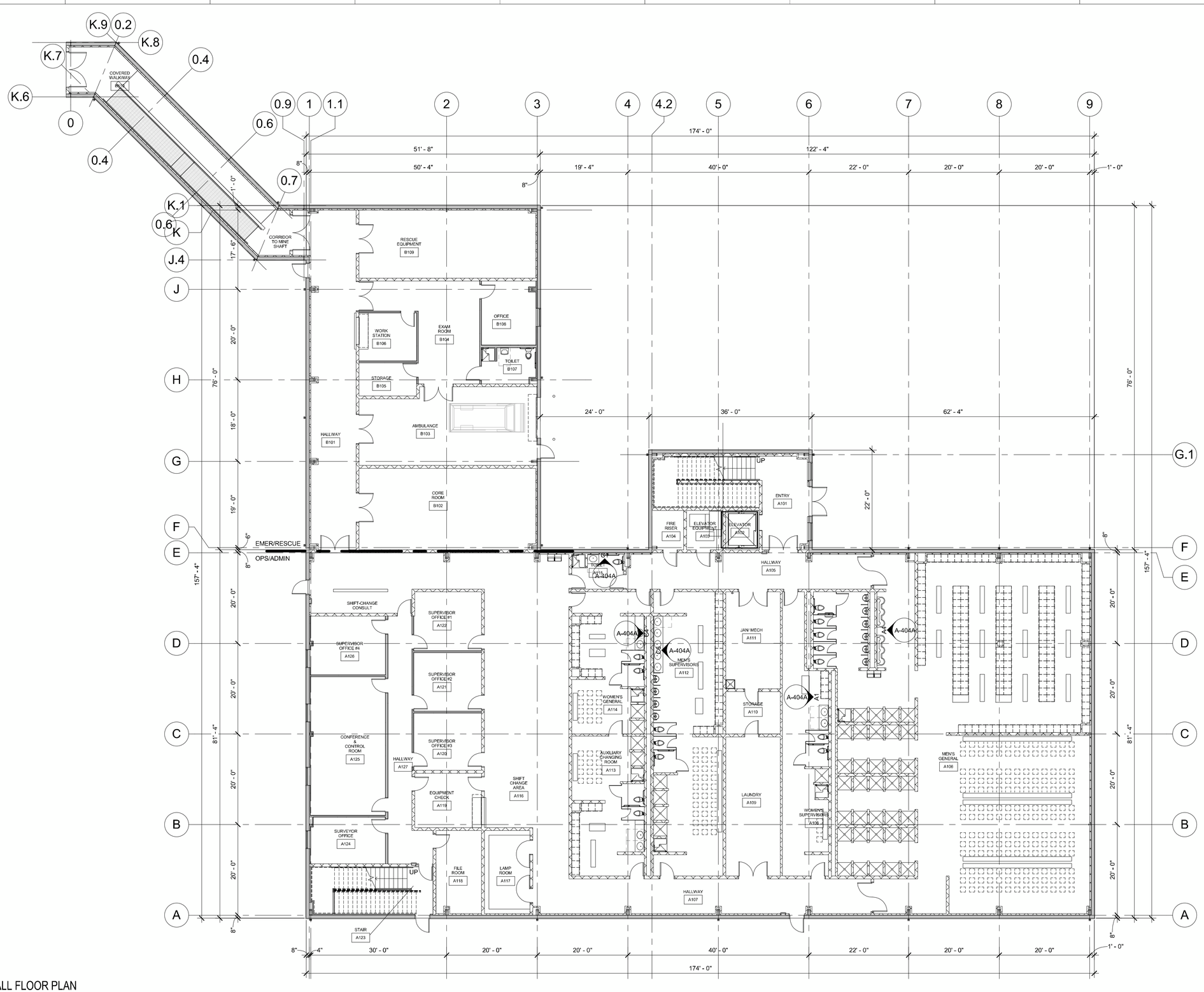
REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1160001900
DESIGNED BY:	DMD
DRAWN BY:	STAFF
CHECKED BY:	DMD
DATE:	JANUARY, 2012

SHEET TITLE
TYPICAL EROSION CONTROL MEASURES

SHEET NO:
SHEET 68 OF 85

M:\FS\11-600-019-00\CADD\SHEETS\SECTION 16\1160019 25 EROSION CONTR DET.DWG
9/27/11



A1 OVERALL FLOOR PLAN

3/32" = 1'-0"

PLAN NORTH

Roca Honda Resources LLC.
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WILSON & COMPANY
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Albuquerque, NM 87109
Phone: (505) 348-4000

SEAL

PROJECT NAME:
ROCA HONDA URANIUM MINE
SECTION 16
SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
-	12/02/2011	60% DESIGN REVIEW

PROJECT NO: 11-600-019-00

DRAWN BY SLW

CHECKED BY TR

SHEET TITLE
OPS/ADMIN & EMER/RESCUE BLDG - OVERALL 1ST FLR PLAN

A-101A

SHEET 69 OF 85

NOT FOR CONSTRUCTION

11/16/2011 2:02:54 PM

GENERAL SHEET NOTES

REFERENCE KEYNOTES

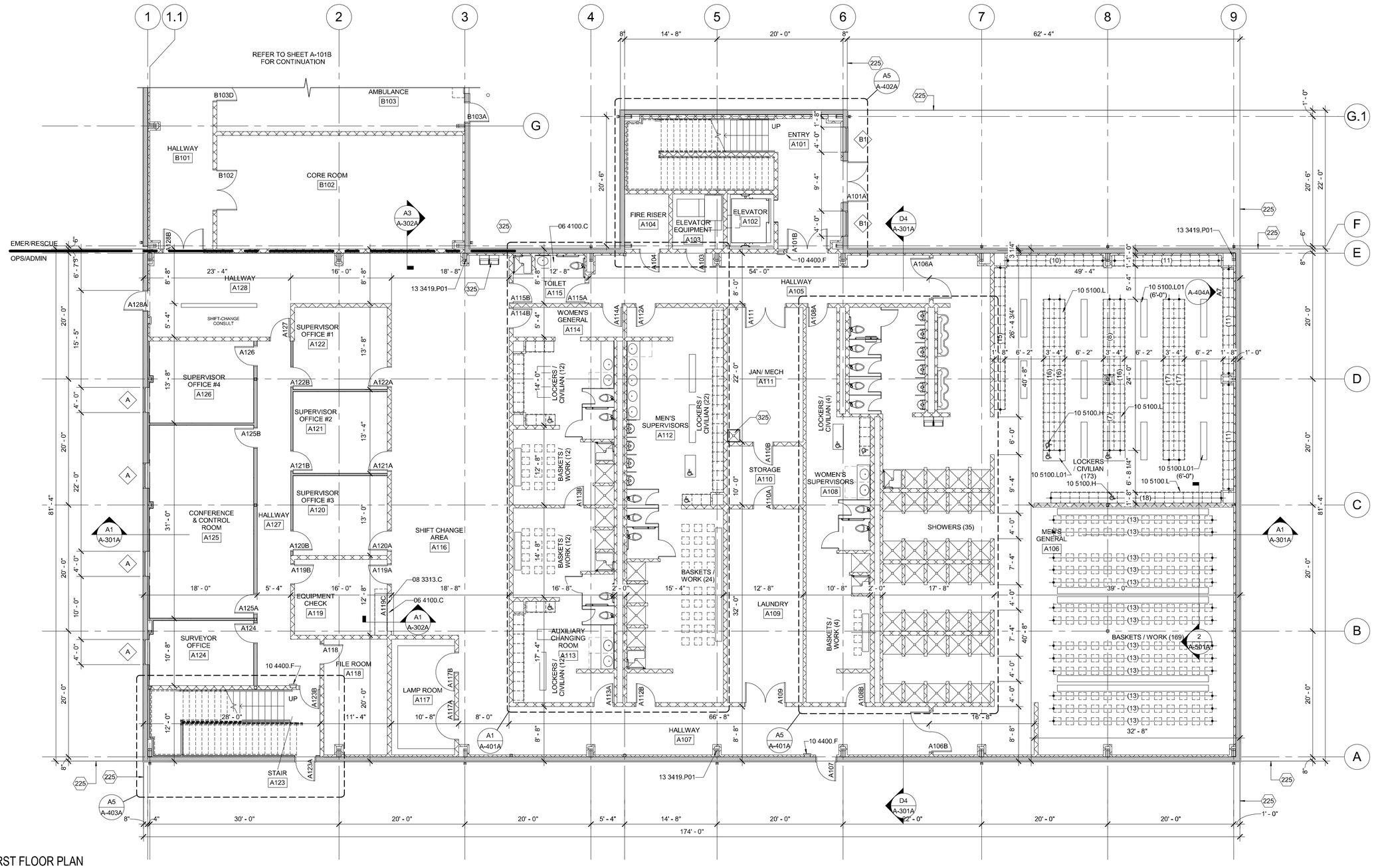
06 4100.C	COUNTERTOP
08 3313.C	COILING COUNTER DOOR
10 4400.F	FIRE EXTINGUISHER CABINET
10 5100.H	HANDICAP ACCESSIBLE LOCKER
10 5100.L	LOCKER
10 5100.L01	LOCKER BENCH

SHEET KEYNOTES

13 3419.P01	PRE-ENGINEERED BUILDING FRAME
225	FACE OF GIRT.
325	PLUMBING FIXTURE.

LEGEND

- 000 — DOOR TYPE - SEE DOOR SCHEDULE
- P1 — PARTITION TYPE - SEE PARTITION SCHEDULE
- FIRE EXTIGUISHER - CABINET
- FIRE EXTIGUISHER - WALL MOUNTED



A1 FIRST FLOOR PLAN

1/8" = 1'-0"

PLAN NORTH

Roca Honda Resources LLC.
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WILSON & COMPANY
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Albuquerque, NM 87109
Phone: (505) 348-4000

SEAL

PROJECT NAME:
ROCA HONDA URANIUM MINE
SECTION 16
SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
-	12/02/2011	60% DESIGN REVIEW

PROJECT NO: 11-600-019-00

DRAWN BY SLW

CHECKED BY TR

SHEET TITLE
OPS/ADMIN BUILDING - FIRST FLOOR PLAN

NOT FOR CONSTRUCTION

A-102A

SHEET 70 OF 85

11/16/2011 2:04:29 PM

GENERAL SHEET NOTES

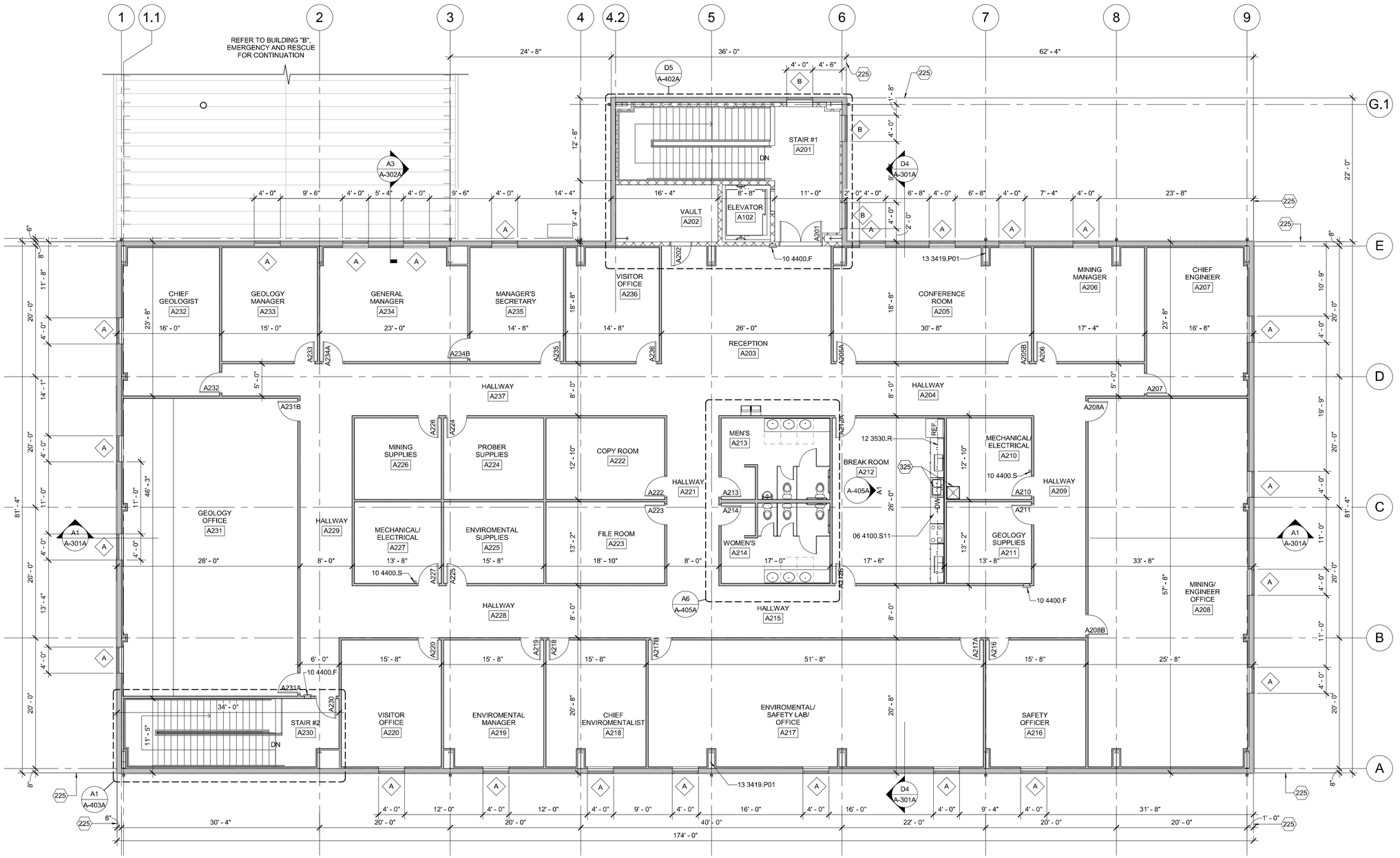
REFERENCE KEYNOTES

06 4100.S11	SOLID SURFACE COUNTERTOP
10 4400.F	FIRE EXTINGUISHER CABINET
10 4400.S	SURFACE MOUNTED FIRE EXTINGUISHER
12 3530.R	RESIDENTIAL CASEWORK
13 3419.P01	PRE-ENGINEERED BUILDING FRAME
225	FACE OF GIRT.
325	PLUMBING FIXTURE.

SHEET KEYNOTES

LEGEND

- DOOR TYPE - SEE DOOR SCHEDULE
- PARTITION TYPE - SEE PARTITION SCHEDULE
- FIRE EXTIGUISHER - CABINET
- FIRE EXTIGUISHER - WALL MOUNTED



A1 SECOND FLOOR PLAN

1/8" = 1'-0"

PLAN NORTH

Roca Honda Resources LLC.
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PROJECT NAME:
ROCA HONDA URANIUM MINE
SECTION 16
SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
-	12/02/2011	60% DESIGN REVIEW

PROJECT NO: 11-600-019-00

DRAWN BY SLW

CHECKED BY TR

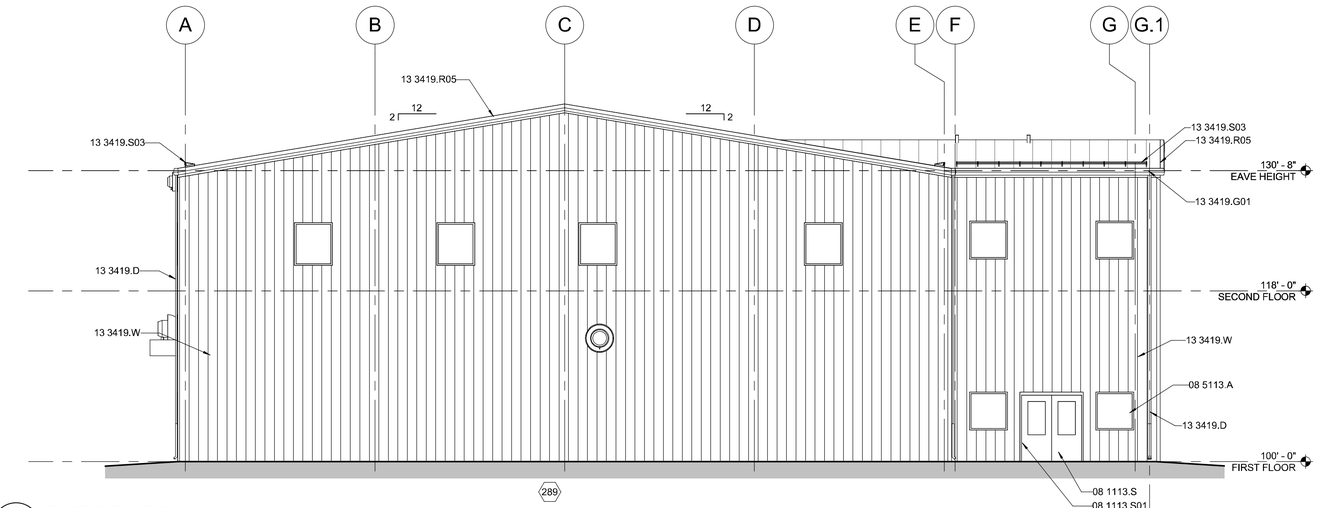
SHEET TITLE
OPS/ADMIN BUILDING - SECOND FLOOR PLAN

NOT FOR CONSTRUCTION

A-103A

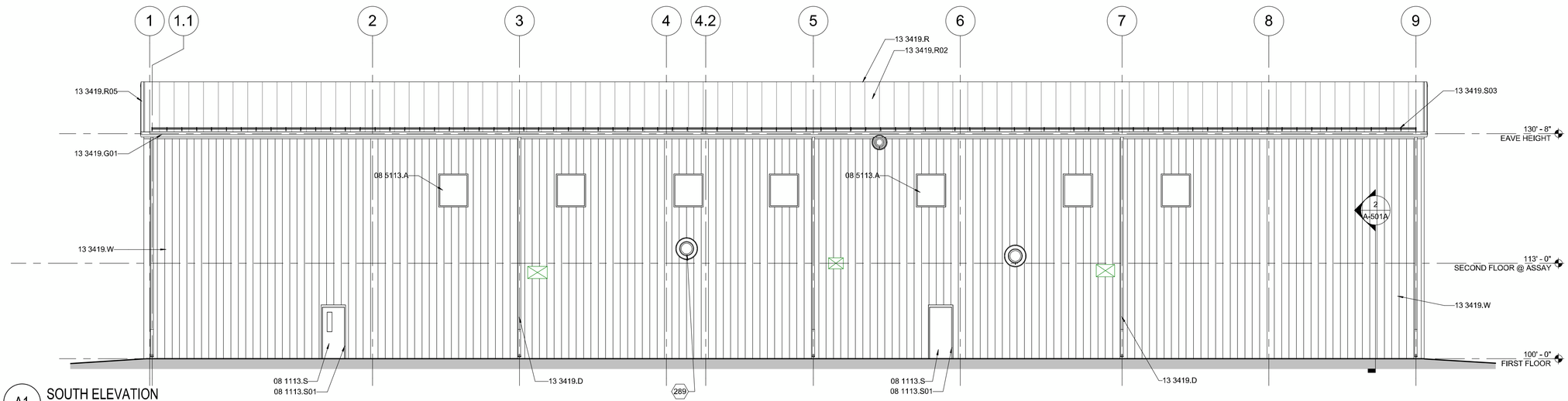
SHEET 71 OF 85

11/16/2011 2:05:07 PM



C3 EAST ELEVATION

1/8" = 1'-0"



A1 SOUTH ELEVATION

1/8" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

08 1113.S	STEEL DOOR
08 1113.S01	STEEL FRAME
08 5113.A	ALUMINUM WINDOW
13 3419.D	DOWNSPOUT
13 3419.G01	GUTTER
13 3419.R	RIDGE CAP
13 3419.R02	ROOF PANEL
13 3419.R05	RAKE TRIM
13 3419.S03	SNOW GUARD
13 3419.W	WALL PANEL

SHEET KEYNOTES

289	MECHANICAL EXHAUST FAN.

RHR SMITH
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PROJECT NAME:
ROCA HONDA URANIUM MINE
SECTION 16
SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
-	12/02/2011	60% DESIGN REVIEW

PROJECT NO: 11-600-019-00

DRAWN BY SLW

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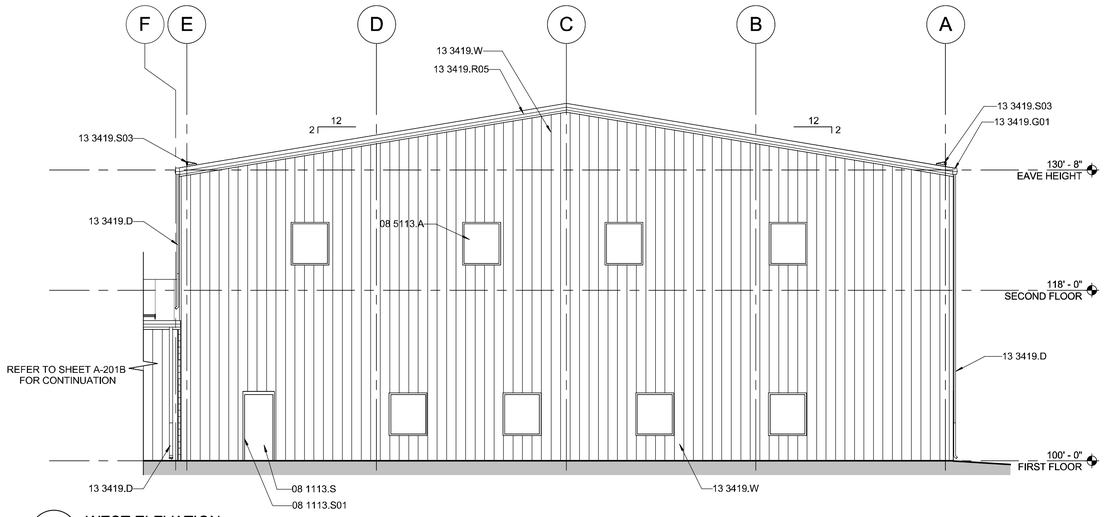
SHEET TITLE
OPS/ADMIN BUILDING - EXTERIOR ELEVATIONS

A-201A

SHEET 72 OF 85

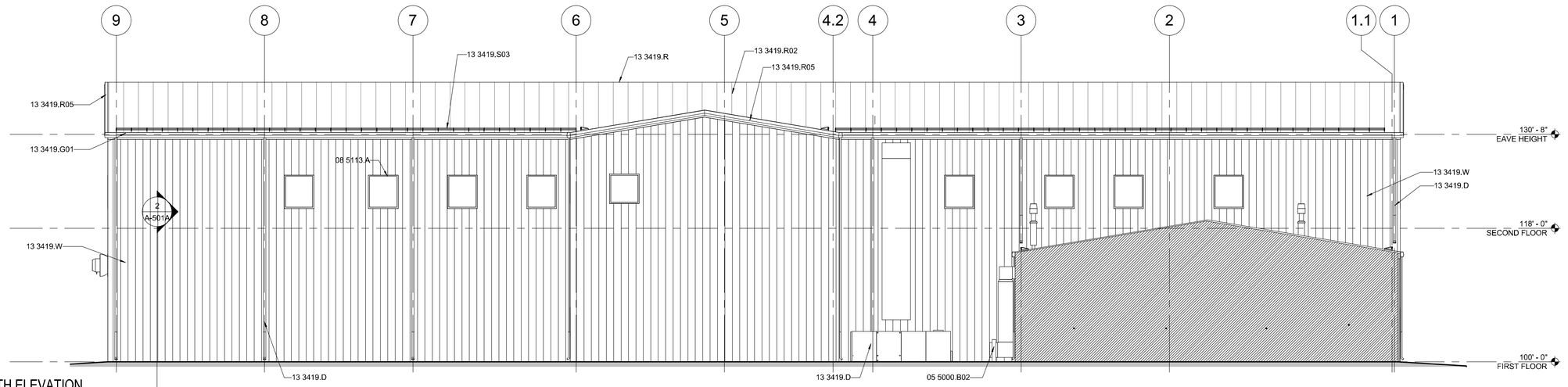
NOT FOR CONSTRUCTION

11/16/2011 2:06:01 PM



C4 WEST ELEVATION

1/8" = 1'-0"



A1 NORTH ELEVATION

1/8" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

05 5000.B02	BOLLARD
08 1113.S	STEEL DOOR
08 1113.S01	STEEL FRAME
08 5113.A	ALUMINUM WINDOW
13 3419.D	DOWNSPOUT
13 3419.G01	GUTTER
13 3419.R	RIDGE CAP
13 3419.R02	ROOF PANEL
13 3419.R05	RAKE TRIM
13 3419.S03	SNOW GUARD
13 3419.W	WALL PANEL

SHEET KEYNOTES

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Albuquerque, NM 87109
Phone: (505) 348-4000

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PROJECT NAME:
ROCA HONDA URANIUM MINE
SECTION 16
SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
-	12/02/2011	60% DESIGN REVIEW

PROJECT NO: 11-600-019-00

DRAWN BY Author

CHECKED BY Checker

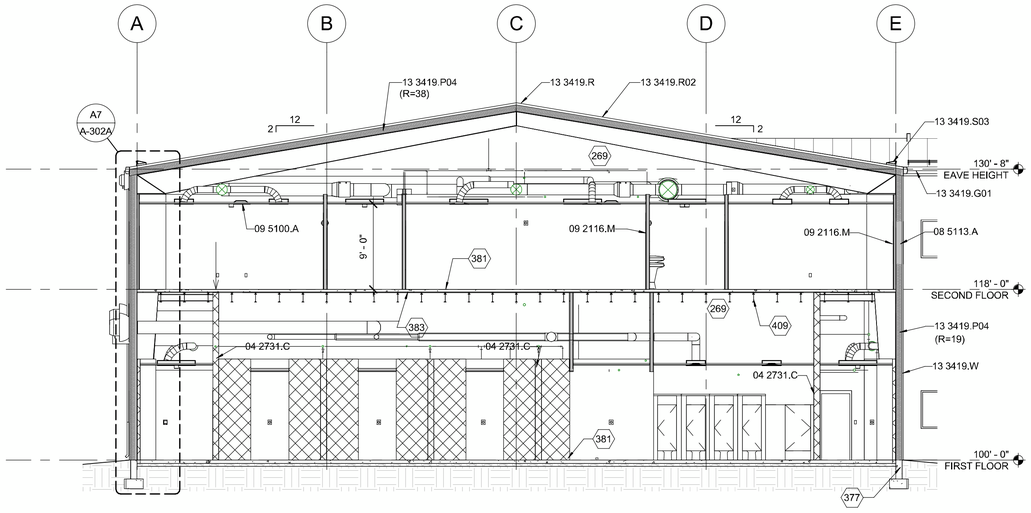
SHEET TITLE
OPS/ADMIN BUILDING - EXTERIOR ELEVATIONS

A-202A

SHEET 73 OF 85

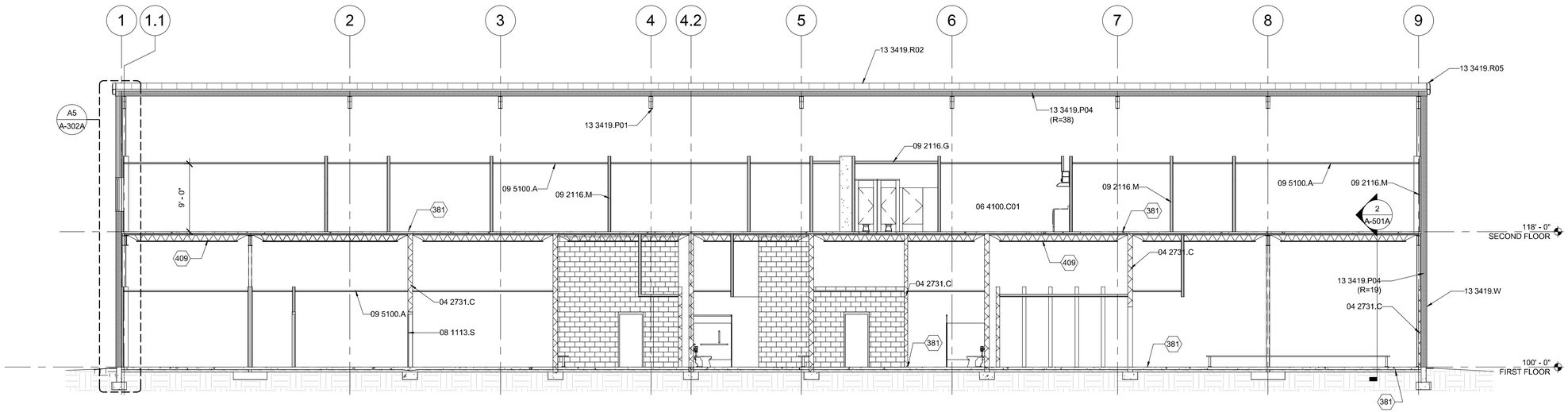
NOT FOR CONSTRUCTION

11/16/2011 2:08:00 PM



D4 BUILDING SECTION

1/8" = 1'-0"



A1 BUILDING SECTION

1/8" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

04 2731.C	CONCRETE MASONRY UNITS
08 1113.S	STEEL DOOR
08 5113.A	ALUMINUM WINDOW
09 2116.G	GYPSUM BOARD
09 2116.M	METAL STUD
09 5100.A	ACOUSTICAL PANEL(S)
13 3419.G01	GUTTER
13 3419.P01	PRE-ENGINEERED BUILDING FRAME
13 3419.P04	PRE-ENGINEERED BUILDING INSULATION
13 3419.R	RIDGE CAP
13 3419.R02	ROOF PANEL
13 3419.R05	RAKE TRIM
13 3419.S03	SNOW GUARD
13 3419.W	WALL PANEL

SHEET KEYNOTES

377	STRUCTURAL CAST-IN-PLACE CONCRETE FOUNDATION.
381	STRUCTURAL CAST-IN-PLACE CONCRETE SLAB.
383	STRUCTURAL CAST-IN-PLACE LIGHT-WEIGHT CONCRETE SLAB ON METAL DECK.
409	STRUCTURAL JOIST.

RHR
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Phone: (505) 348-4000

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PROJECT NAME:
ROCA HONDA URANIUM MINE
SECTION 16
SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
-	12/02/2011	60% DESIGN REVIEW

PROJECT NO: 11-600-019-00

DRAWN BY Author

CHECKED BY Checker

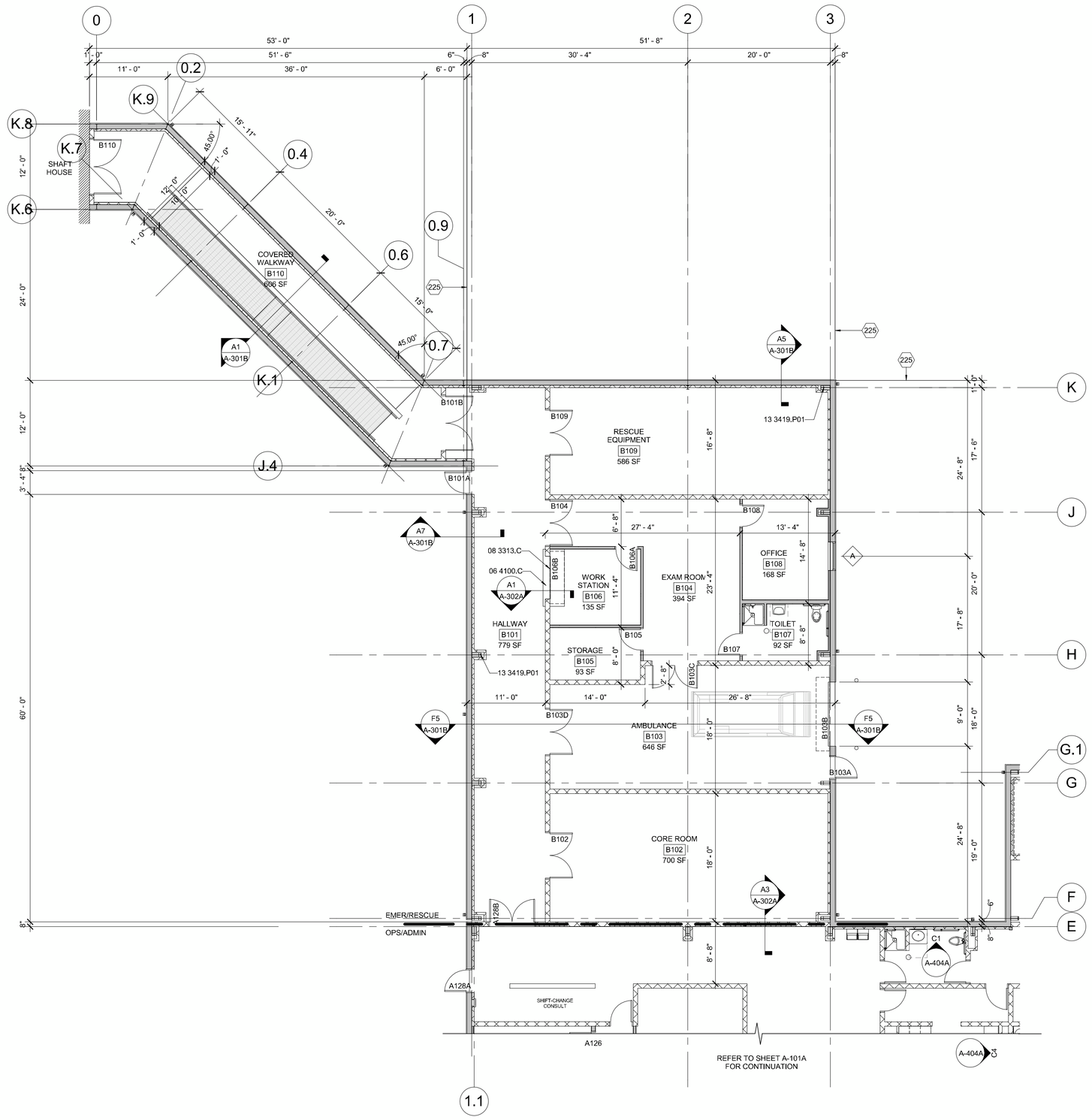
SHEET TITLE
OPS/ADMIN BUILDING - BUILDING SECTIONS

NOT FOR CONSTRUCTION

A-301A

SHEET 74 OF 85

11/16/2011 2:08:20 PM



A1 FLOOR PLAN

1/8" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

06 4100.C	COUNTERTOP
08 3313.C	COILING COUNTER DOOR

SHEET KEYNOTES

13 3419.P01	PRE-ENGINEERED BUILDING FRAME
225	FACE OF GIRT.

LEGEND

RHR SMITH ENGINEERING & MANAGEMENT LLC
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SEAL

PROJECT NAME: ROCA HONDA URANIUM MINE SECTION 16 SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
-	12/02/2011	60% DESIGN REVIEW

PROJECT NO: 11-600-019-00

DRAWN BY SLW

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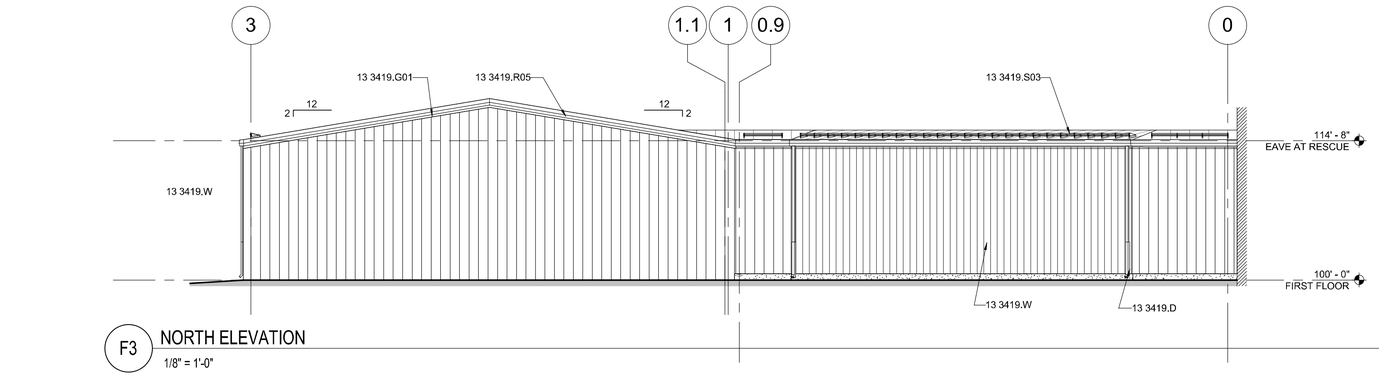
SHEET TITLE: EMER/RESCUE BUILDING - FLOOR PLAN

NOT FOR CONSTRUCTION

A-101B

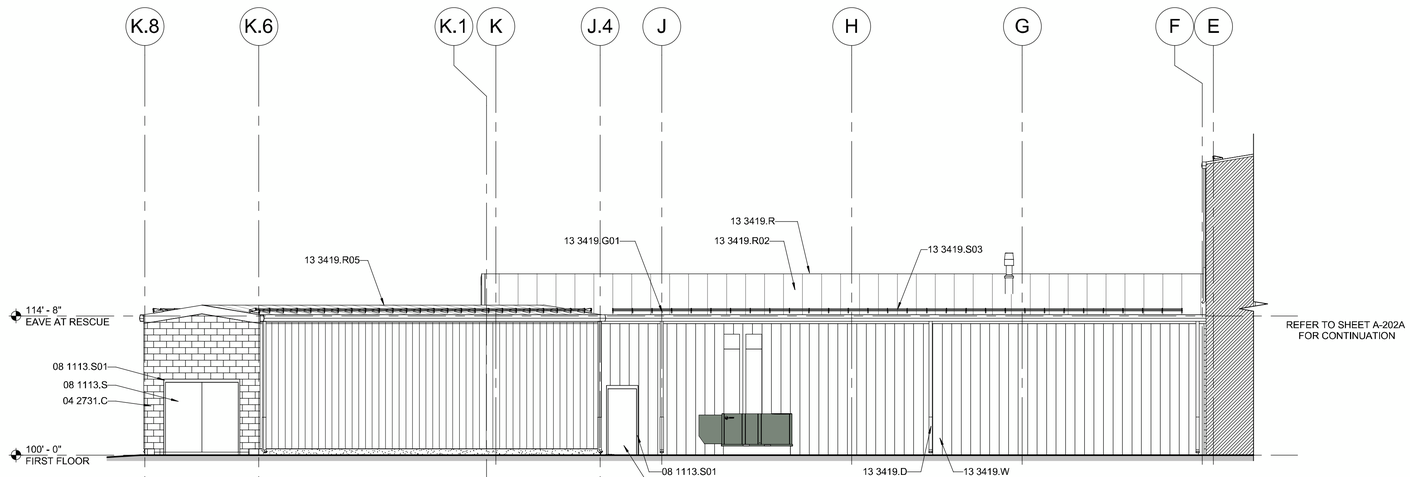
SHEET 75 OF 85

11/16/2011 2:03:05 PM



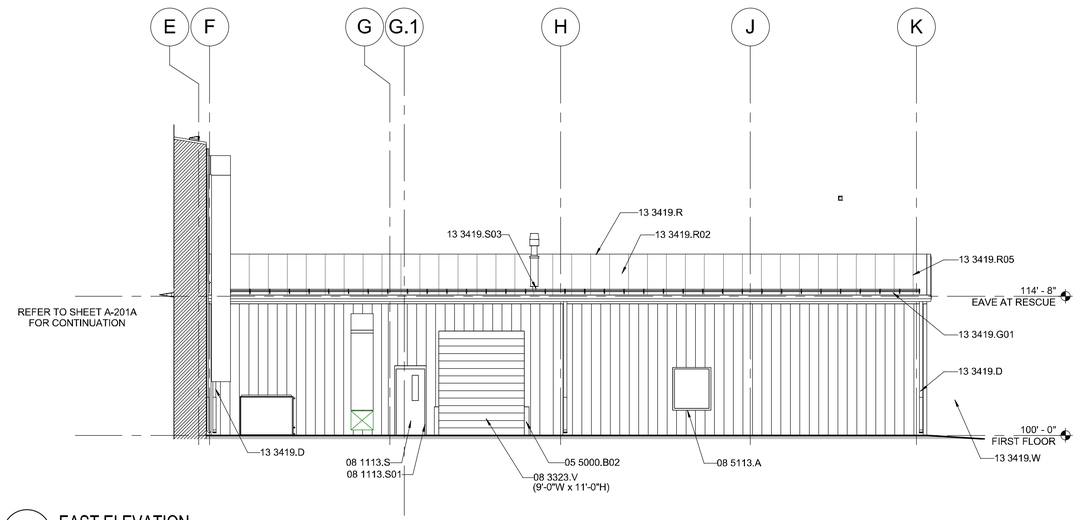
F3 NORTH ELEVATION

1/8" = 1'-0"



C3 WEST ELEVATION

1/8" = 1'-0"



A4 EAST ELEVATION

1/8" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

04 2731.C	CONCRETE MASONRY UNITS
05 5000.B02	BOLLARD
08 1113.S	STEEL DOOR
08 1113.S01	STEEL FRAME
08 3323.V	OVERHEAD COILING DOOR
08 5113.A	ALUMINUM WINDOW
13 3419.D	DOWNSPOUT
13 3419.G01	GUTTER
13 3419.R	RIDGE CAP
13 3419.R02	ROOF PANEL
13 3419.R05	RAKE TRIM
13 3419.S03	SNOW GUARD
13 3419.W	WALL PANEL

SHEET KEYNOTES

LEGEND

RHR ROCA HONDA RESOURCES LLC

Roca Honda Resources LLC.
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WILSON & COMPANY

4900 Lang Avenue Ne
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SEAL

PROJECT NAME:
ROCA HONDA URANIUM MINE
SECTION 16
SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
-	12/02/2011	60% DESIGN REVIEW

PROJECT NO: 11-600-019-00

DRAWN BY SLW

CHECKED BY TR

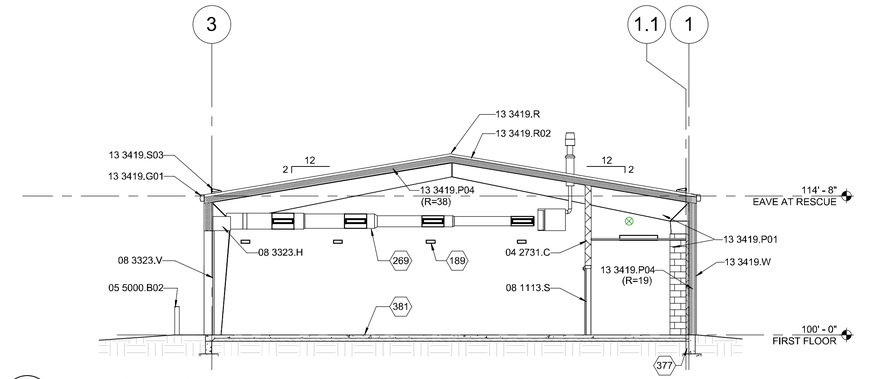
SHEET TITLE
EMER/RESCUE BUILDING - EXTERIOR ELEVATIONS

NOT FOR CONSTRUCTION

A-201B

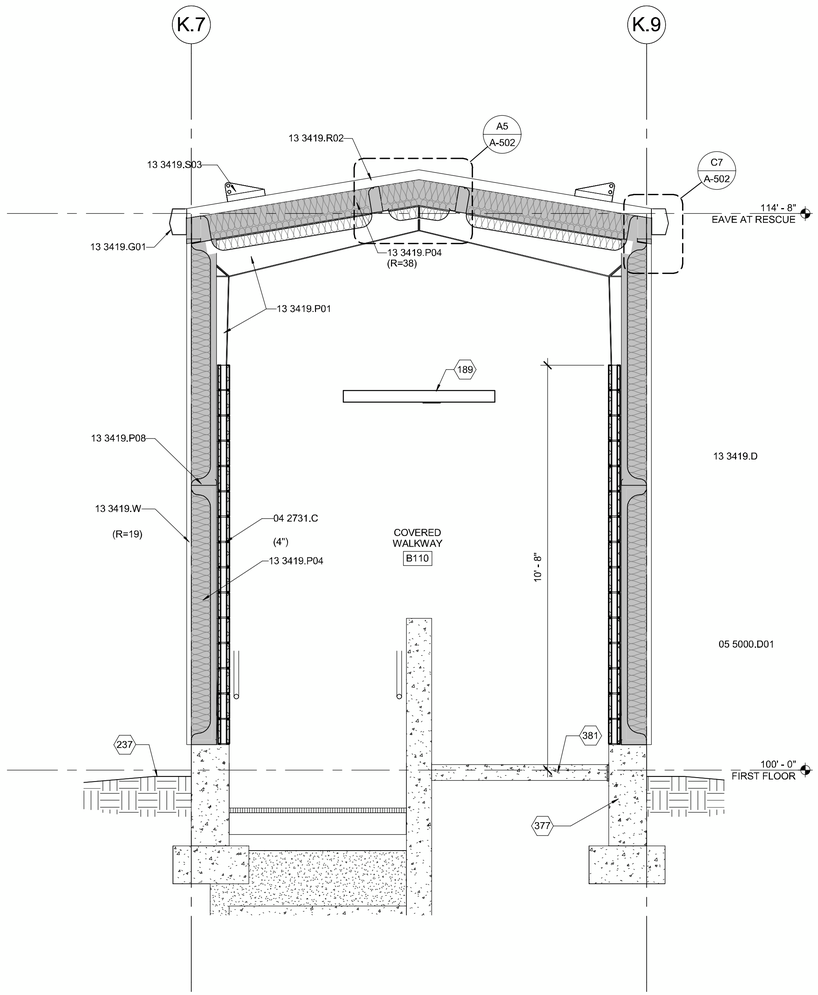
SHEET 76 OF 85

11/16/2011 2:06:14 PM



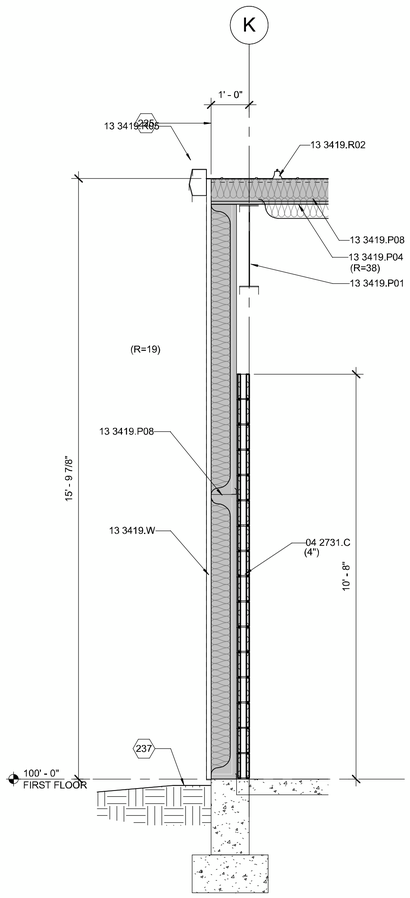
F5 BUILDING SECTION

1/8" = 1'-0"



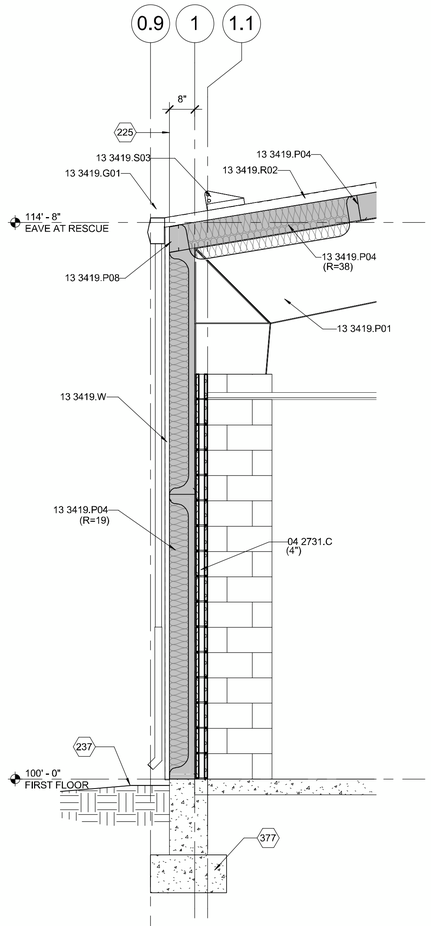
A1 SECTION AT CONNECTING HALL

1/2" = 1'-0"



A5 WALL SECTION

1/2" = 1'-0"



A7 WALL SECTION

1/2" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

04 2731.C	CONCRETE MASONRY UNITS
05 5000.B02	BOLLARD
08 1113.S	STEEL DOOR
08 3323.H	HOOD ENCLOSURE
08 3323.V	OVERHEAD COILING DOOR
13 3419.G01	GUTTER
13 3419.P01	PRE-ENGINEERED BUILDING FRAME
13 3419.P04	PRE-ENGINEERED BUILDING INSULATION
13 3419.P08	PRE-ENGINEERED BUILDING SECONDARY FRAMING
13 3419.R	RIDGE CAP
13 3419.R02	ROOF PANEL
13 3419.R05	RAKE TRIM
13 3419.S03	SNOW GUARD
13 3419.W	WALL PANEL
189	ELECTRICAL LIGHT FIXTURE.
225	FACE OF GIRT.
237	FINISH GRADE.

SHEET KEYNOTES

269	MECHANICAL DUCTWORK.
377	STRUCTURAL CAST-IN-PLACE CONCRETE FOUNDATION.
381	STRUCTURAL CAST-IN-PLACE CONCRETE SLAB.

LEGEND

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Santa Fe, NM 87507

WILSON & COMPANY
4900 Lang Avenue Ne
Albuquerque, NM 87109
Phone: (505) 348-4000

SEAL

PROJECT NAME:
ROCA HONDA URANIUM MINE
SECTION 16
SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
-	12/02/2011	60% DESIGN REVIEW

PROJECT NO: 11-600-019-00

DRAWN BY ASB

CHECKED BY TR

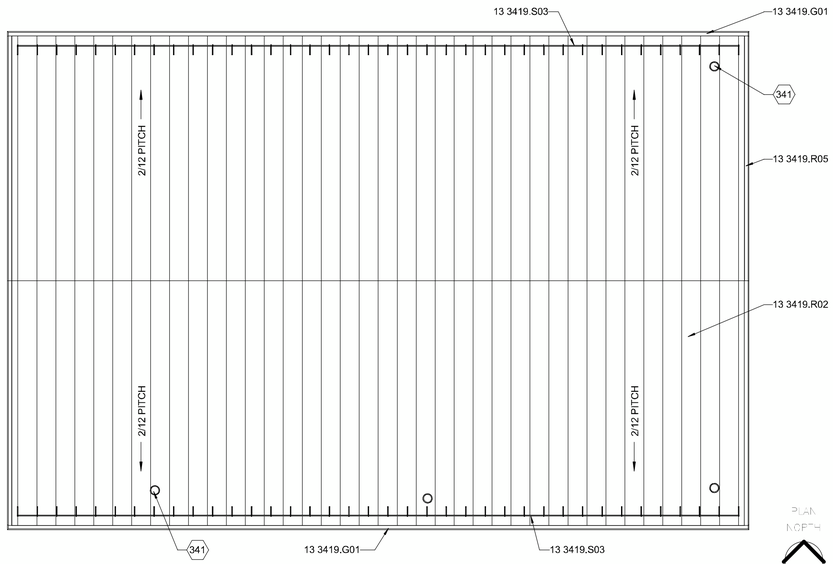
SHEET TITLE
EMER/RESCUE BUILDING - SECTIONS

NOT FOR CONSTRUCTION

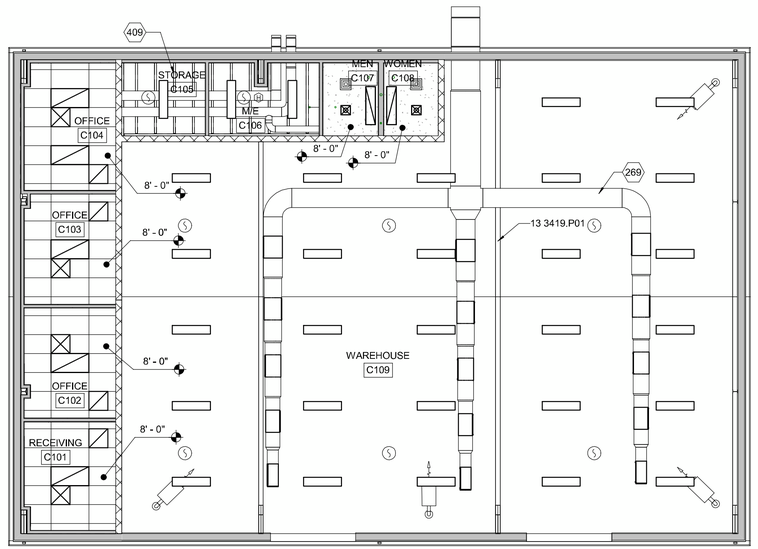
A-301B

SHEET 77 OF 85

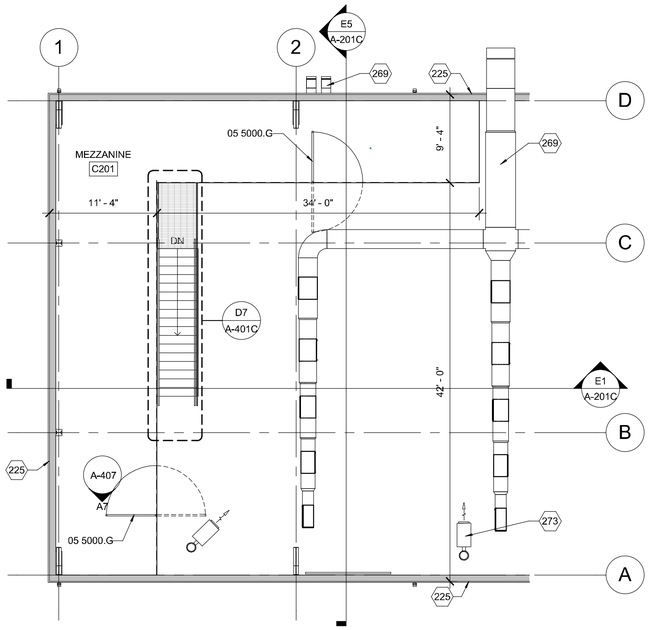
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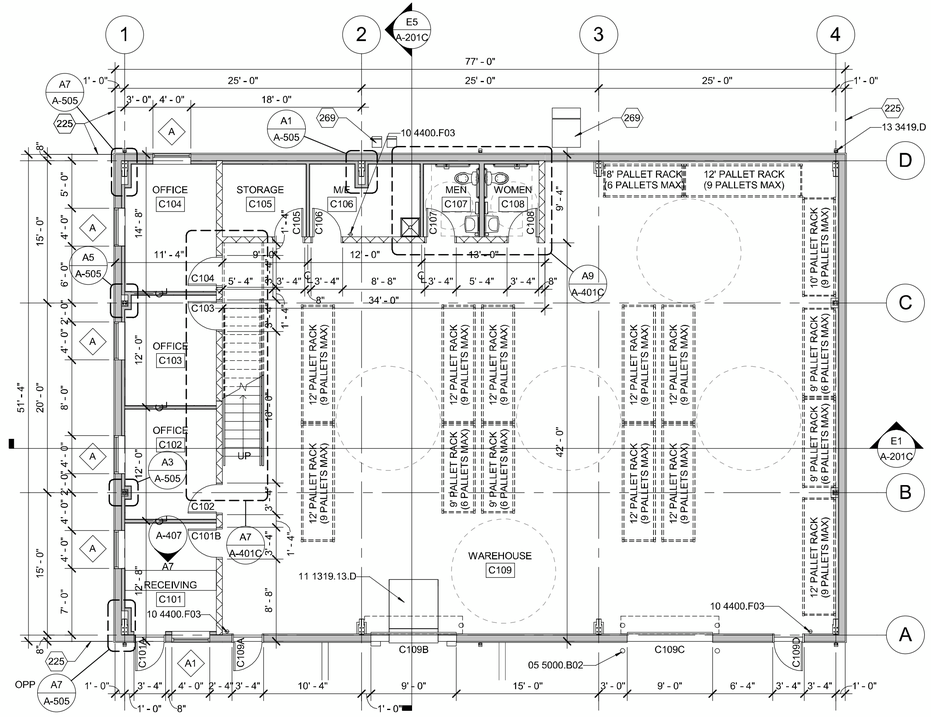
E1 ROOF PLAN
1/8" = 1'-0"



E5 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



A1 MEZZANINE FLOOR PLAN
1/8" = 1'-0"



A4 FIRST FLOOR PLAN
1/8" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

05 5000.B02	BOLLARD
05 5000.G	GATE
10 4400.F03	FIRE EXTINGUISHER
11 1319,13,D	DOCK LEVELER
13 3419,D	DOWNSPOUT
13 3419.G01	GUTTER
13 3419.P01	PRE-ENGINEERED BUILDING FRAME
13 3419.R02	ROOF PANEL
13 3419.R05	RAKE TRIM
13 3419.S03	SNOW GUARD

SHEET KEYNOTES

225	FACE OF GIRT.
269	MECHANICAL DUCTWORK.
273	MECHANICAL HVAC UNIT.
341	PLUMBING VENT.
409	STRUCTURAL JOIST.

LEGEND

- DOOR TYPE - SEE DOOR SCHEDULE
- PARTITION TYPE - SEE PARTITION SCHEDULE
- DENOTES CEILING / SOFFIT / BULKHEAD HEIGHT ABOVE FINISHED FLOOR
- 2' x 4' ACP - SEE FINISH SCHEDULE
- GYPSUM BOARD - SEE FINISH SCHEDULE
- OPEN TO STRUCTURE
- RECESSED FLUORESCENT LIGHT FIXTURE - SEE ELECTRICAL
- RECESSED EMERGENCY FLUORESCENT LIGHT FIXTURE - SEE ELECTRICAL
- PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE - SEE ELECTRICAL
- WALL MOUNTED LIGHT FIXTURE - SEE ELECTRICAL
- SURFACE MOUNTED LIGHT FIXTURE - SEE ELECTRICAL
- SUSPENDED FLUORESCENT LIGHT FIXTURE - SEE ELECTRICAL
- RECESSED CAN LIGHT FIXTURE - SEE ELECTRICAL
- CEILING MOUNTED EXIT SIGN - SEE ELECTRICAL
- WALL MOUNTED EXIT SIGN - SEE ELECTRICAL
- FIRE ALARM STROBE - SEE ELECTRICAL
- FIRE ALARM HORN STROBE - SEE ELECTRICAL
- SMOKE DETECTOR - SEE ELECTRICAL
- RECESSED SUPPLY AIR - SEE MECHANICAL
- RECESSED RETURN AIR - SEE MECHANICAL
- RECESSED EXHAUST FAN - SEE MECHANICAL

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WILSON & COMPANY
4900 Lang Avenue Ne
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SEAL

PROJECT NAME:
ROCA HONDA URANIUM MINE
SECTION 16
SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
-	12/02/2011	60% DESIGN REVIEW

PROJECT NO: 11-600-019-00

DRAWN BY ASB

CHECKED BY TR

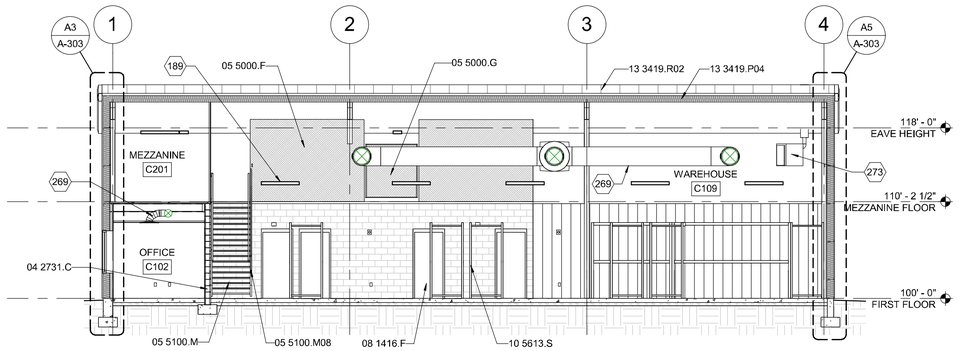
SHEET TITLE
WAREHOUSE BUILDING - PLANS

A-101C

SHEET 78 OF 85

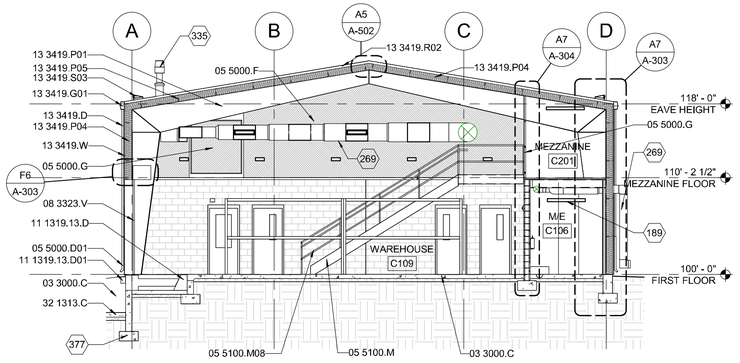
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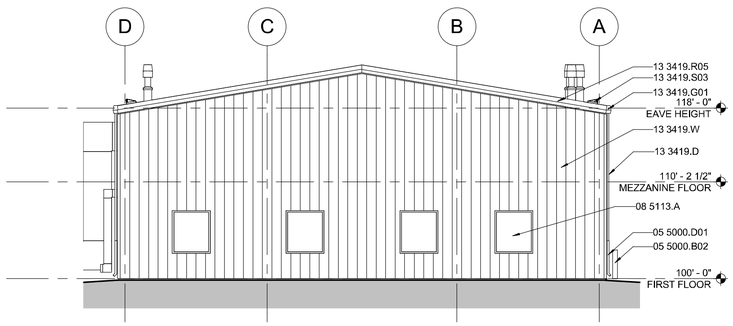
E1 BUILDING SECTION

1/8" = 1'-0"



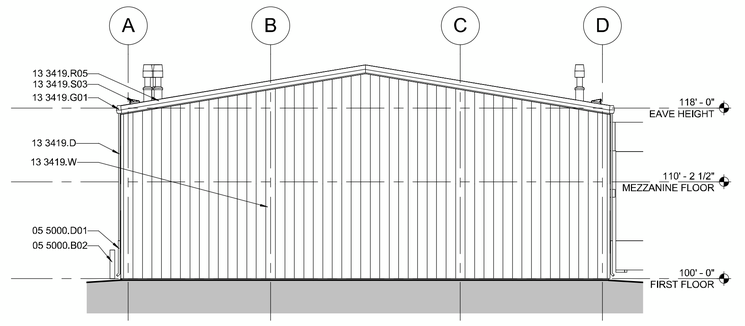
E5 BUILDING SECTION

1/8" = 1'-0"



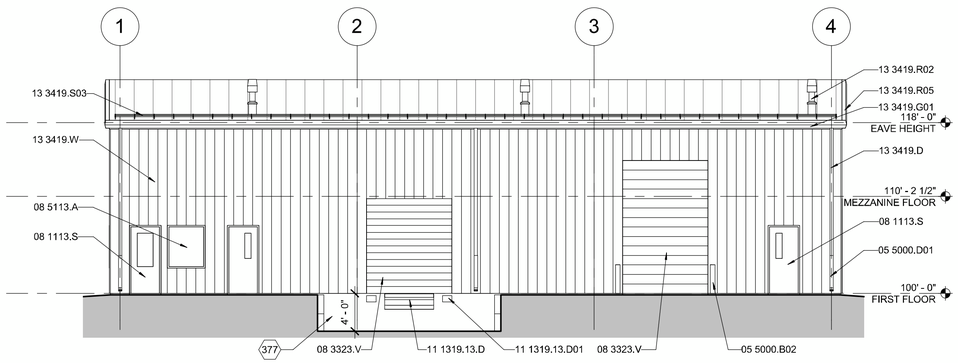
C1 WEST ELEVATION

1/8" = 1'-0"



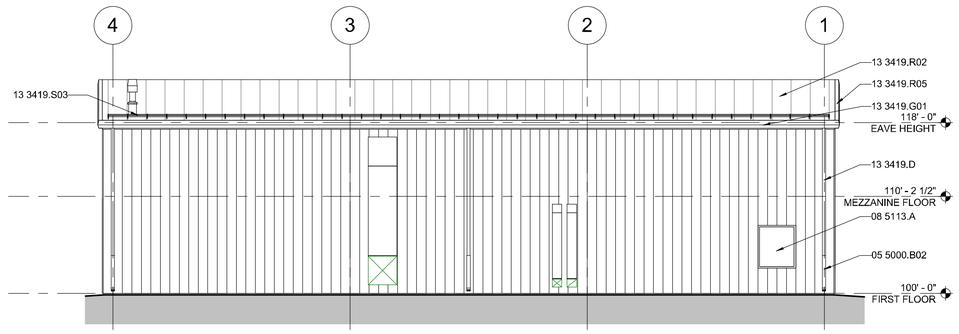
C5 EAST ELEVATION

1/8" = 1'-0"



A1 SOUTH ELEVATION

1/8" = 1'-0"



A6 NORTH ELEVATION

1/8" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

03 3000.C	CAST-IN-PLACE CONCRETE
04 2731.C	CONCRETE MASONRY UNITS
05 5000.B02	BOLLARD
05 5000.D01	DOWNSPOUT PIPE BOOT
05 5000.F	FENCE
05 5000.G	GATE
05 5100.M	METAL STAIRS
05 5100.M08	METAL STAIR RAILING
08 1113.S	STEEL DOOR
08 1416.F	FLUSH WOOD DOOR
08 3323.V	OVERHEAD COILING DOOR
08 5113.A	ALUMINUM WINDOW
09 2116.M	METAL STUD
10 5613.S	STORAGE SHELVING
11 1319.13.D	DOCK LEVELER
11 1319.13.D01	DOCK BUMPER
13 3419.D	DOWNSPOUT
13 3419.G01	GUTTER
13 3419.L01	LINER PANEL
13 3419.P01	PRE-ENGINEERED BUILDING FRAME
13 3419.P02	PRE-ENGINEERED BUILDING COLUMN
13 3419.P04	PRE-ENGINEERED BUILDING INSULATION
13 3419.P05	PURLIN
13 3419.R02	ROOF PANEL
13 3419.R05	RAKE TRIM
13 3419.S03	SNOW GUARD
13 3419.W	WALL PANEL
32 1313.C	CONCRETE PAVING
32 3113.C	CHAIN LINK FENCE

SHEET KEYNOTES

189	ELECTRICAL LIGHT FIXTURE.
269	MECHANICAL DUCTWORK.
273	MECHANICAL HVAC UNIT.
335	PLUMBING PIPING.
377	STRUCTURAL CAST-IN-PLACE CONCRETE FOUNDATION.

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4900 Lang Avenue Ne
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SEAL

PROJECT NAME:
ROCA HONDA URANIUM MINE
SECTION 16
SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
-	12/02/2011	60% DESIGN REVIEW

PROJECT NO:
11-600-019-00

DRAWN BY ASB

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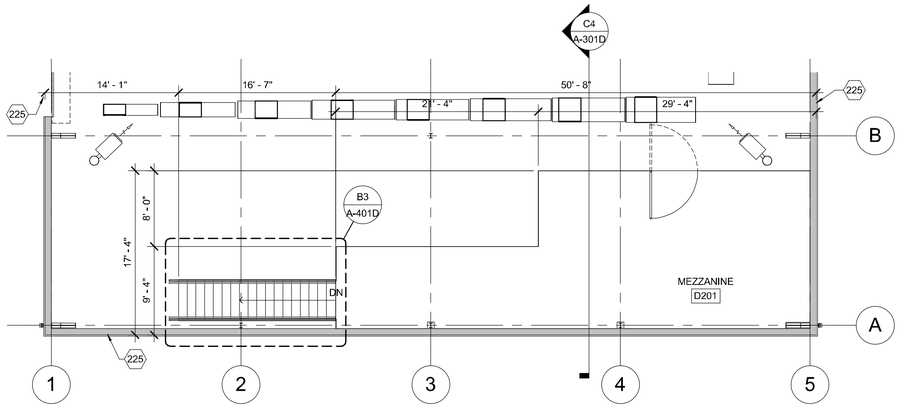
SHEET TITLE
WAREHOUSE BUILDING - EXTERIOR ELEVATIONS & SECTIONS

A-201C

SHEET 79 OF 85

NOT FOR CONSTRUCTION

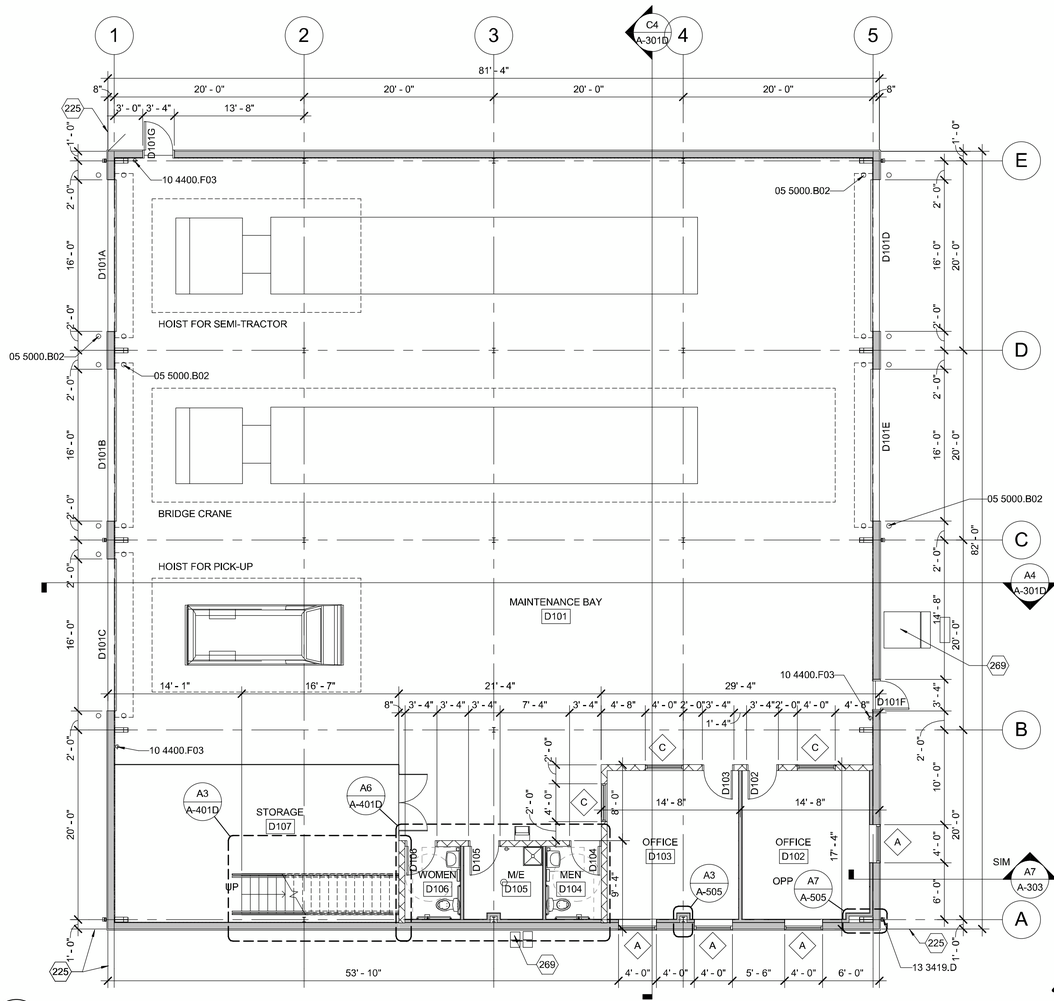
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PLAN NORTH

E4 MEZZANINE FLOOR PLAN

1/8" = 1'-0"



PLAN NORTH

A4 FIRST FLOOR PLAN

1/8" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

05 5000.B02	BOLLARD
10 4400.F03	FIRE EXTINGUISHER
13 3419.D	DOWNSPOUT

SHEET KEYNOTES

225	FACE OF GIRT.
269	MECHANICAL DUCTWORK.

LEGEND

- DOOR TYPE - SEE DOOR SCHEDULE (000)
- PARTITION TYPE - SEE PARTITION SCHEDULE (P1)
- FIRE EXTIGUISHER - CABINET
- FIRE EXTIGUISHER - WALL MOUNTED

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PROJECT NO: 11-600-019-00

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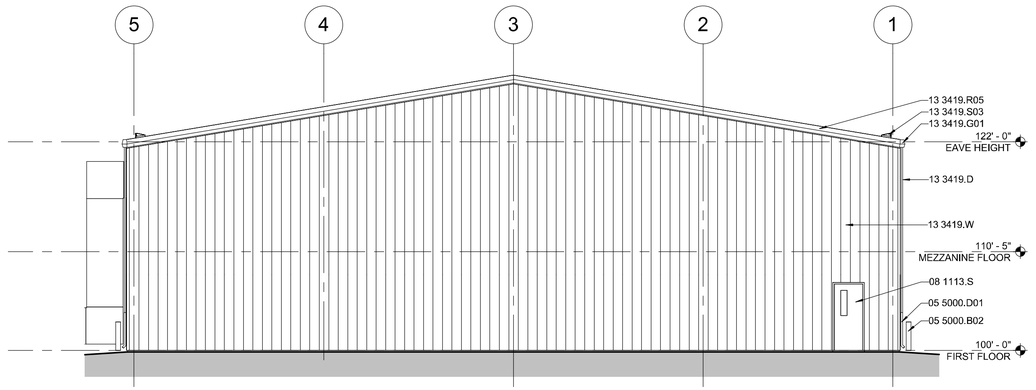
SHEET TITLE
MAINTENANCE SHOP BLDG - FLOOR PLANS

NOT FOR CONSTRUCTION

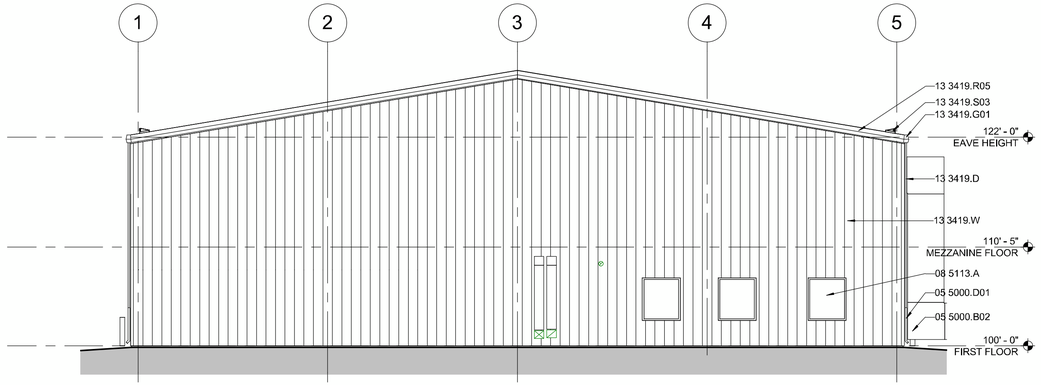
A-101D

SHEET 80 OF 85

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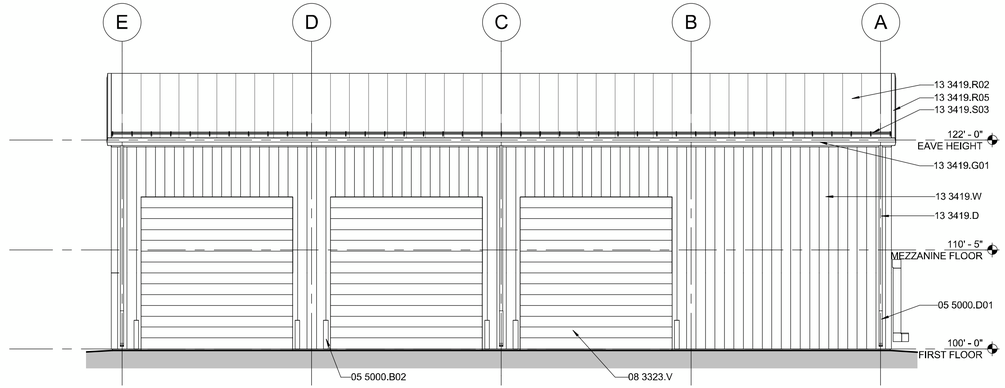
E4 NORTH ELEVATION
1/8" = 1'-0"



C4 SOUTH ELEVATION
1/8" = 1'-0"



A1 EAST ELEVATION
1/8" = 1'-0"



A6 WEST ELEVATION
1/8" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

05 5000.B02	BOLLARD
05 5000.D01	DOWNSPOUT PIPE BOOT
08 1113.S	STEEL DOOR
08 3323.V	OVERHEAD COILING DOOR
08 5113.A	ALUMINUM WINDOW
13 3419.D	DOWNSPOUT
13 3419.G01	GUTTER
13 3419.R02	ROOF PANEL
13 3419.R05	RAKE TRIM
13 3419.S03	SNOW GUARD
13 3419.W	WALL PANEL

SHEET KEYNOTES

RHR
ROCA HONDA RESOURCES, LLC
Roca Honda Resources LLC.
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4900 Lang Avenue Ne
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ROCA HONDA URANIUM MINE
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MARK	DATE	DESCRIPTION
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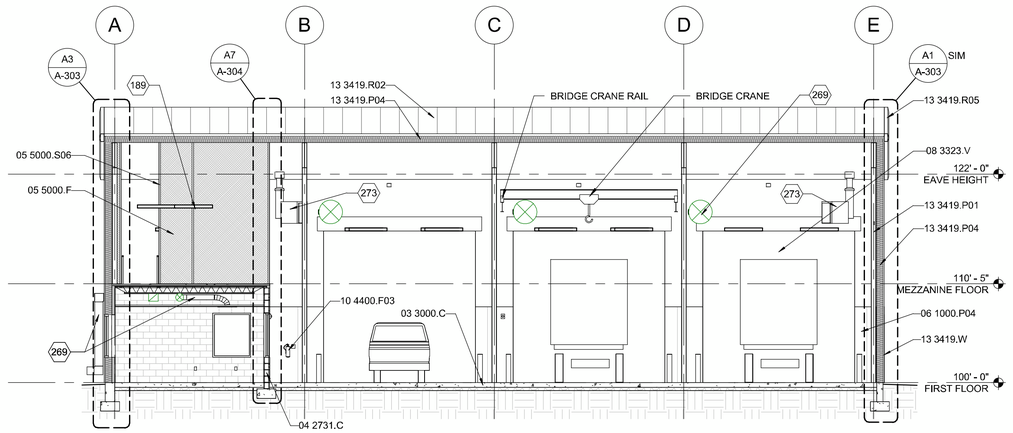
SHEET TITLE
MAINTENANCE SHOP BLDG - EXTERIOR ELEVATIONS

A-201D

SHEET 81 OF 85

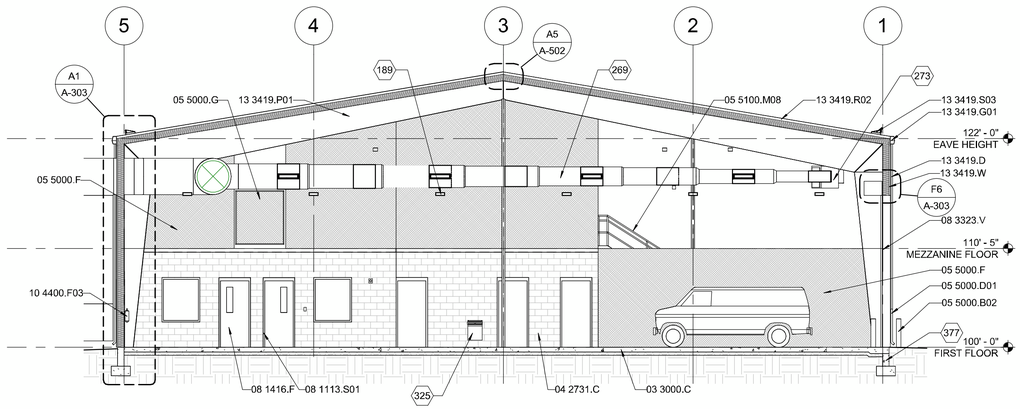
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C4 BUILDING SECTION

1/8" = 1'-0"



A4 BUILDING SECTION

1/8" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

03 3000.C	CAST-IN-PLACE CONCRETE
04 2731.C	CONCRETE MASONRY UNITS
05 5000.B02	BOLLARD
05 5000.D01	DOWNSPOUT PIPE BOOT
05 5000.F	FENCE
05 5000.G	GATE
05 5000.S06	STEEL PIPE
05 5100.M08	METAL STAIR RAILING
06 1000.P04	PLYWOOD
08 1113.S01	STEEL FRAME
08 1416.F	FLUSH WOOD DOOR
08 3323.V	OVERHEAD COILING DOOR
10 4400.F03	FIRE EXTINGUISHER
13 3419.D	DOWNSPOUT
13 3419.G01	GUTTER
13 3419.P01	PRE-ENGINEERED BUILDING FRAME
13 3419.P04	PRE-ENGINEERED BUILDING INSULATION
13 3419.R02	ROOF PANEL
13 3419.R05	RAKE TRIM
13 3419.S03	SNOW GUARD
13 3419.W	WALL PANEL

SHEET KEYNOTES

189	ELECTRICAL LIGHT FIXTURE.
269	MECHANICAL DUCTWORK.
273	MECHANICAL HVAC UNIT.
325	PLUMBING FIXTURE.
377	STRUCTURAL CAST-IN-PLACE CONCRETE FOUNDATION.

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WILSON & COMPANY
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SEAL

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ROCA HONDA URANIUM MINE
SECTION 16
SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
-	12/02/2011	60% DESIGN REVIEW

PROJECT NO: 11-600-019-00

DRAWN BY ASB

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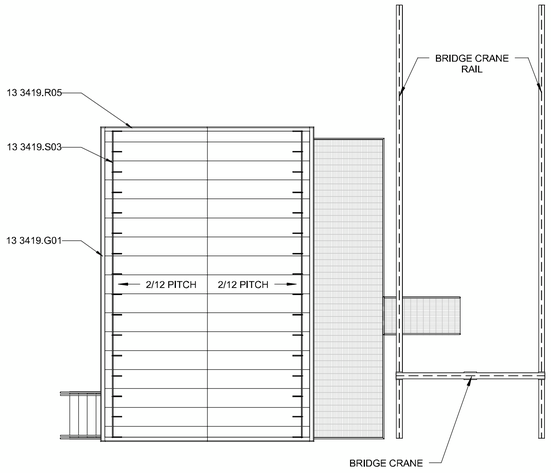
SHEET TITLE
MAINTENANCE SHOP BLDG - BUILDING SECTIONS

NOT FOR CONSTRUCTION

A-301D

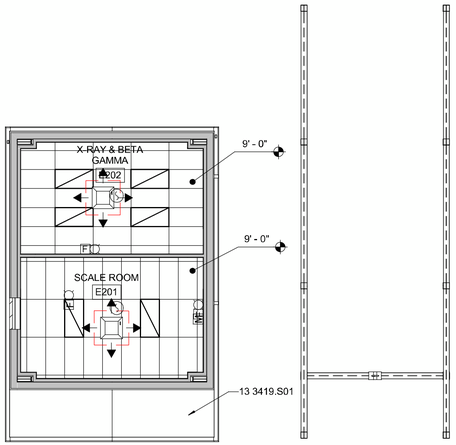
SHEET 82 OF 85

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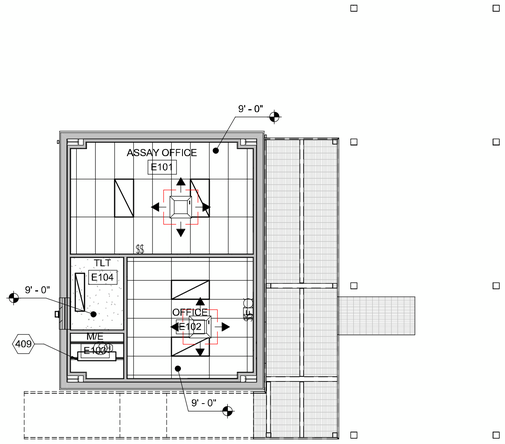
PLAN NORTH

E1 ROOF PLAN
1/8" = 1'-0"



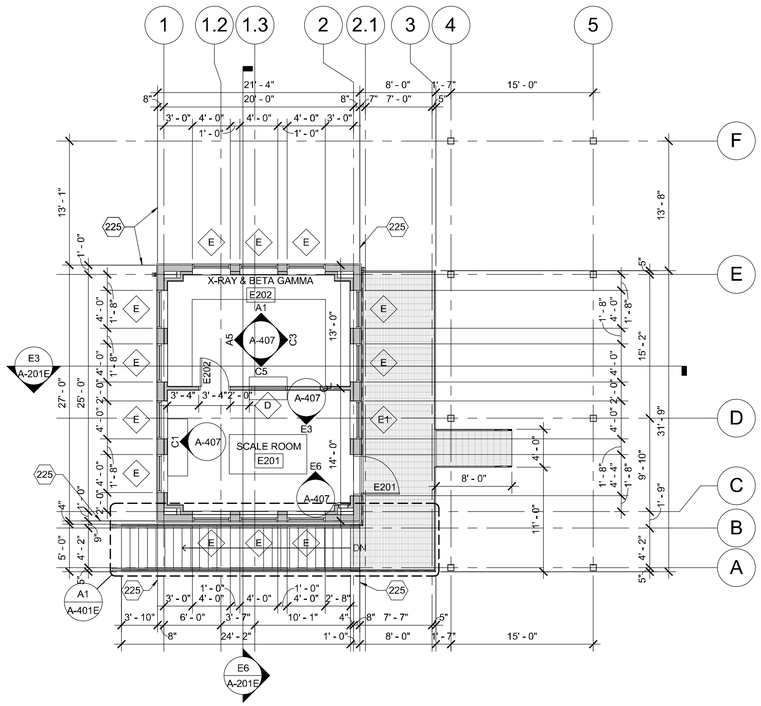
PLAN NORTH

E4 SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



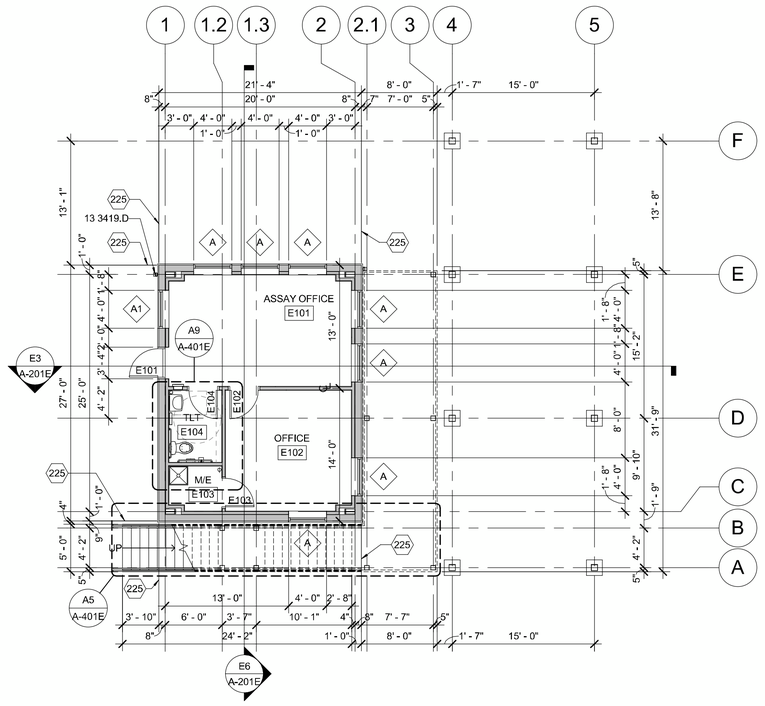
PLAN NORTH

E6 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



PLAN NORTH

A1 SECOND FLOOR PLAN
1/8" = 1'-0"



PLAN NORTH

A5 FIRST FLOOR PLAN
1/8" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

13 3419.D	DOWNSPOUT
13 3419.G01	GUTTER
13 3419.R05	RAKE TRIM
13 3419.S01	SOFFIT PANEL
13 3419.S03	SNOW GUARD
225	FACE OF GIRT.

SHEET KEYNOTES

409	STRUCTURAL JOIST.

LEGEND

- DOOR TYPE - SEE DOOR SCHEDULE
- PARTITION TYPE - SEE PARTITION SCHEDULE
- DENOTES CEILING / SOFFIT / BULKHEAD HEIGHT ABOVE FINISHED FLOOR
- 2' x 4' ACP - SEE FINISH SCHEDULE
- GYPSUM BOARD - SEE FINISH SCHEDULE
- OPEN TO STRUCTURE
- RECESSED FLUORESCENT LIGHT FIXTURE - SEE ELECTRICAL
- RECESSED EMERGENCY FLUORESCENT LIGHT FIXTURE - SEE ELECTRICAL
- PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE - SEE ELECTRICAL
- WALL MOUNTED LIGHT FIXTURE - SEE ELECTRICAL
- SURFACE MOUNTED LIGHT FIXTURE - SEE ELECTRICAL
- SUSPENDED FLUORESCENT LIGHT FIXTURE - SEE ELECTRICAL
- RECESSED CAN LIGHT FIXTURE - SEE ELECTRICAL
- CEILING MOUNTED EXIT SIGN - SEE ELECTRICAL
- WALL MOUNTED EXIT SIGN - SEE ELECTRICAL
- FIRE ALARM STROBE - SEE ELECTRICAL
- FIRE ALARM HORN STROBE - SEE ELECTRICAL
- SMOKE DETECTOR - SEE ELECTRICAL
- RECESSED SUPPLY AIR - SEE MECHANICAL
- RECESSED RETURN AIR - SEE MECHANICAL
- RECESSED EXHAUST FAN - SEE MECHANICAL

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SEAL

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ROCA HONDA URANIUM MINE
SECTION 16
SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
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	12/02/2011	60% DESIGN REVIEW

PROJECT NO: 11-600-019-00

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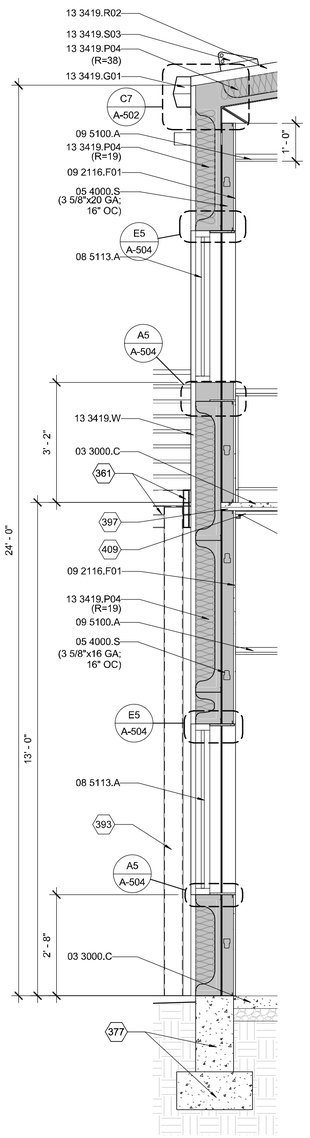
SHEET TITLE
ASSAY BLDG - PLANS

NOT FOR CONSTRUCTION

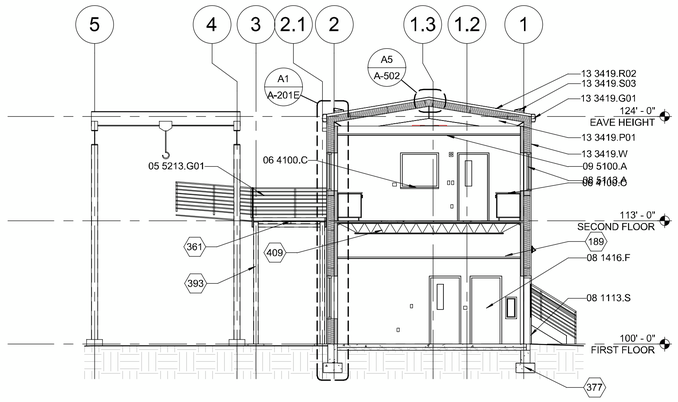
A-101E

SHEET 83 OF 85

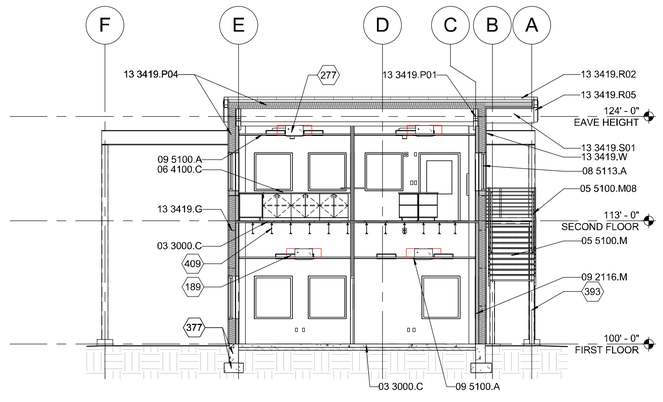
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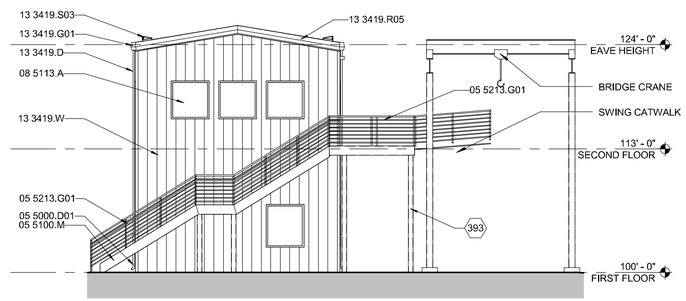
A1 WALL SECTION
1/2" = 1'-0"



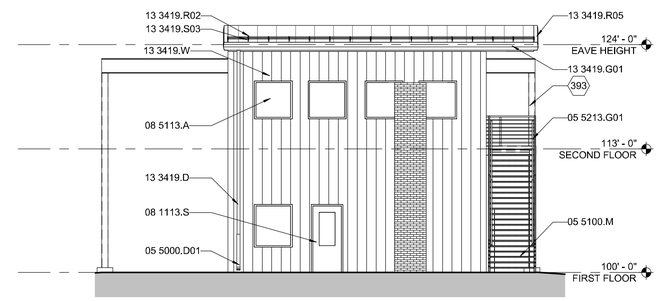
E3 BUILDING SECTION
1/8" = 1'-0"



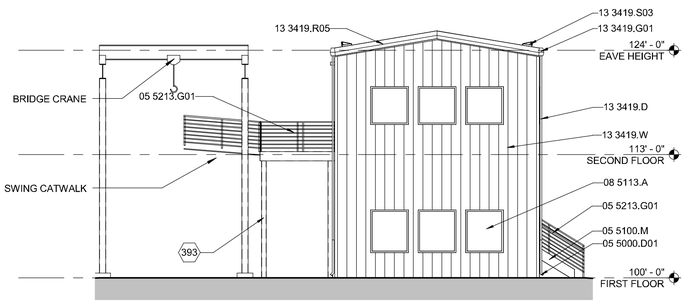
E6 BUILDING SECTION
1/8" = 1'-0"



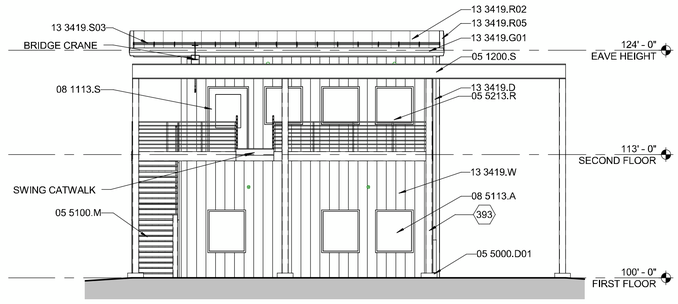
C3 SOUTH ELEVATION
1/8" = 1'-0"



C6 WEST ELEVATION
1/8" = 1'-0"



A3 NORTH ELEVATION
1/8" = 1'-0"



A6 EAST ELEVATION
1/8" = 1'-0"

GENERAL SHEET NOTES

REFERENCE KEYNOTES

03 3000.C	CAST-IN-PLACE CONCRETE
05 1200.S	STEEL BEAM
05 4000.S	STEEL STUD
05 5000.D01	DOWNSPOUT PIPE BOOT
05 5100.M	METAL STAIRS
05 5100.M08	METAL STAIR RAILING
05 5213.G01	GUARDRAIL
05 5213.R	RAILING
06 4100.C	COUNTERTOP
08 1113.S	STEEL DOOR
08 1416.F	FLUSH WOOD DOOR
08 5113.A	ALUMINUM WINDOW
09 2116.F01	FIRE RATED GYPSUM BOARD
09 2116.M	METAL STUD
09 5100.A	ACOUSTICAL PANEL(S)
13 3419.D	DOWNSPOUT
13 3419.G	GIRT
13 3419.G01	GUTTER
13 3419.P01	PRE-ENGINEERED BUILDING FRAME
13 3419.P04	PRE-ENGINEERED BUILDING INSULATION
13 3419.R02	ROOF PANEL
13 3419.R05	RAKE TRIM
13 3419.S01	SOFFIT PANEL
13 3419.S03	SNOW GUARD
13 3419.W	WALL PANEL

SHEET KEYNOTES

189	ELECTRICAL LIGHT FIXTURE.
277	MECHANICAL HVAC GRILLE.
361	STRUCTURAL BEAM.
377	STRUCTURAL CAST-IN-PLACE CONCRETE FOUNDATION.
393	STRUCTURAL COLUMN.
397	STRUCTURAL DECK.
409	STRUCTURAL JOIST.

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SEAL

PROJECT NAME:
ROCA HONDA URANIUM MINE
SECTION 16
SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
-	12/02/2011	60% DESIGN REVIEW

PROJECT NO: 11-600-019-00
DRAWN BY ASB
CHECKED BY TR

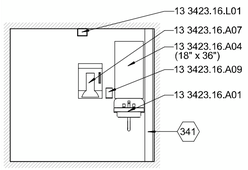
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ASSAY BLDG - EXTERIOR ELEVATIONS & BUILDING SECTIONS

A-201E

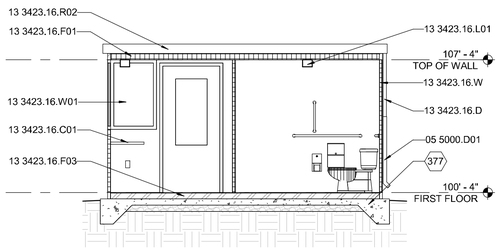
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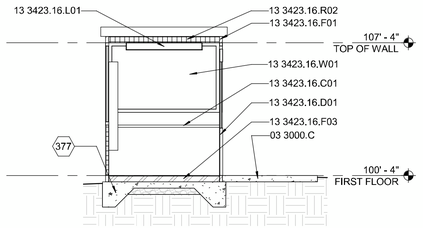
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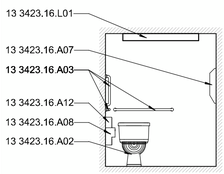
F1 TOILET ELEVATION
1/4" = 1'-0"



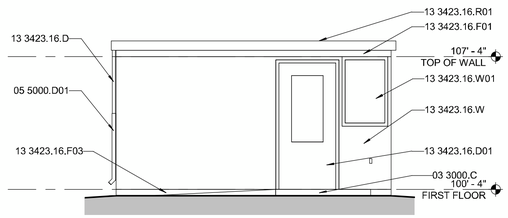
F2 BUILDING SECTION
1/4" = 1'-0"



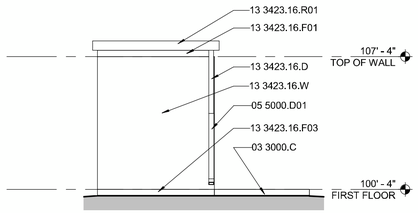
F5 BUILDING SECTION
1/4" = 1'-0"



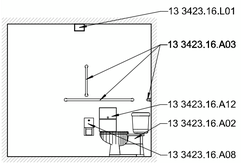
D1 TOILET ELEVATION
1/4" = 1'-0"



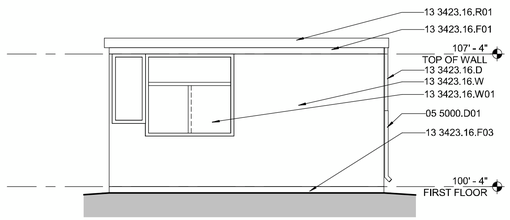
D2 WEST ELEVATION
1/4" = 1'-0"



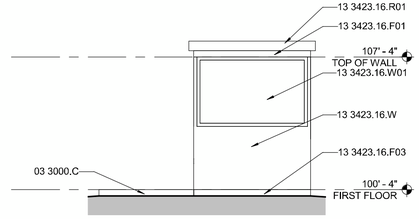
D5 NORTH ELEVATION
1/4" = 1'-0"



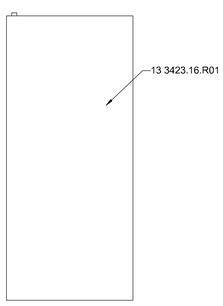
C1 TOILET ELEVATION
1/4" = 1'-0"



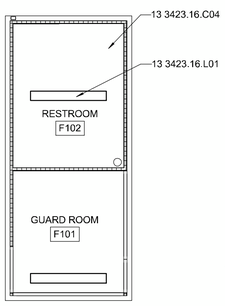
C2 EAST ELEVATION
1/4" = 1'-0"



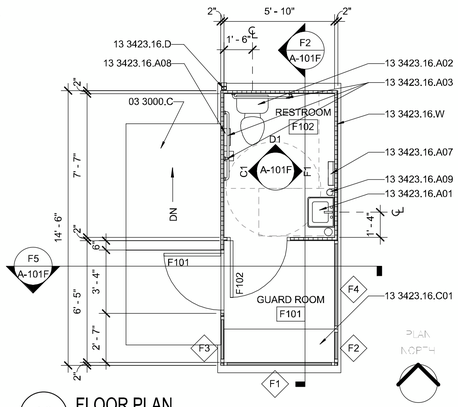
C5 SOUTH ELEVATION
1/4" = 1'-0"



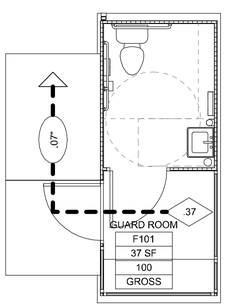
A1 ROOF PLAN
1/4" = 1'-0"



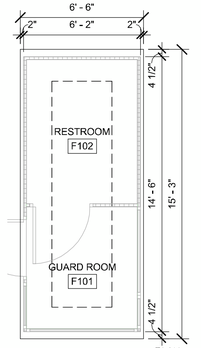
A2 CEILING PLAN
1/4" = 1'-0"



A3 FLOOR PLAN
1/4" = 1'-0"



A5 CODE REVIEW PLAN
1/4" = 1'-0"



A6 FOUNDATION PLAN
1/4" = 1'-0"

CODE INFORMATION

CODE ANALYSIS: GUARDHOUSE BUILDING

A. PROJECT ADDRESS: ROCA HONDA URANIUM MINE
SECTION 16
GRANTS, NM

B. APPLICABLE REGULATORY INFORMATION:
1. 2009 NM COMMERCIAL BUILDING CODE (2009 IBC, AS AMENDED)
2. 2009 NM PLUMBING CODE (2009 UNIFORM PLUMBING CODE, AS AMENDED)
3. 2009 NM MECHANICAL CODE (2009 UNIFORM MECHANICAL CODE, AS AMENDED)
4. 2008 NM ELECTRICAL CODE (2008 NATIONAL ELECTRICAL CODE, AS AMENDED)
5. 2009 NM ENERGY CONSERVATION CODE (2009 INTERNATIONAL ENERGY CONSERVATION CODE, AS AMENDED)
6. ICC/ANSI A117.1-2003

C. OCCUPANCY GROUP: GROUP B (SECTION 303 & 304, IBC)

D. CONSTRUCTION TYPE: II-B (TABLE 601, IBC)

E. ALLOWABLE BUILDING AREA: (GROSS) 23,000 SF (PER TABLE 503, IBC)
ACTUAL BUILDING AREA: (GROSS) 89 SF
(GROSS, AS MEASURED TO EXTERIOR FACE OF WALLS)

F. ALLOWABLE HEIGHT:
ALLOWABLE: 55 FEET (PER TABLE 503, IBC)
APPROXIMATE HEIGHT: 8 FEET

G. ALLOWABLE STORIES:
ALLOWABLE: 3 STORIES (PER TABLE 503, IBC)
ACTUAL STORIES: 1 STORIES

H. FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS: 0 HOURS
(FIRE SEPARATION DISTANCE = GREATER THAN OR EQUAL TO 10' OR LESS THAN 30' PER TABLE 602, IBC)

J. CORRIDOR FIRE-RESISTANCE RATING: 1 HOURS (CORRIDORS NOT USED)
(B OCCUPANCY WITHOUT SPRINKER SYSTEM TABLE 1017.1, IBC)

K. INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (TABLE 803.5):
1. OCCUPANCY B:
EXIT ENCLOSURES AND EXIT PASSAGEWAYS FLAME SPREAD INDEX: A
CORRIDORS FLAME SPREAD INDEX: B
ROOMS AND ENCLOSED SPACES FLAME SPREAD INDEX: C

L. MINIMUM ROOF COVERING CLASSIFICATION: CLASS C (TABLE 1505.1, IBC)

M. OCCUPANCY SEPARATION: NONE REQUIRED (PER SECTION 508.3.2)

P. MAXIMUM DISTANCE, COMMON PATH OF EGRESS TRAVEL (SECTION 1014.3, IBC): 200 FT

ACTUAL TRAVEL DISTANCE: 0 FT

Q. MAXIMUM OCCUPANT LOAD FOR SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY (TABLE 1015.1, IBC): 49

ACTUAL OCCUPANT LOAD: .37
ACTUAL NUMBER OF EXISTS: 1

R. MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES (TABLE 2902.1, IBC)
1. BUSINESS
OCCUPANT LOAD = 1 OCCUPANTS
TOTAL = .5 MALE, .5 FEMALE

WATER CLOSET REQUIRED, MALE (1/25)	= .02
WATER CLOSET REQUIRED, FEMALE (1/25)	= .02
LAVATORIES REQUIRED, MALE (1/40)	= .01
LAVATORIES REQUIRED, FEMALE (1/40)	= .01
DRINKING FOUNTAINS REQUIRED (1/100) (FOOTNOTE f, 2902.1, IBC)	= NOT REQUIRED
SERVICE SINK REQUIRED	= 1

2. TOTAL PLUMBING FIXTURES PROVIDED:

WATER CLOSET, MALE	= 1
WATER CLOSET, FEMALE	= 1
LAVATORIES, MALE	= 1
LAVATORIES, FEMALE	= 1
SERVICE SINK	= 1

LEGEND

SYMBOL/ABBREVIATION:	DESCRIPTION	SPECIFICATION SECTION
PH	PANIC HARDWARE	08 7100
NL	NO LATCH OR LOCK (PUSH/PULL)	08 7100
	PATH OF EGRESS	
0.00"	REQUIRED EGRESS WIDTH	
0.00	ACCUMULATED OCCUPANT LOAD IN DIRECTION OF EGRESS	
0.00	IBC 2009 OCCUPANT LOAD	
RM NAME / RM # / RM SF / OCC LOAD / SF FACTOR	INDIVIDUAL ROOM CODE INFORMATION	

GENERAL SHEET NOTES

REFERENCE KEYNOTES

03 3000.C	CAST-IN-PLACE CONCRETE
05 5000.D01	DOWNSPOUT PIPE BOOT
13 3423.16.A01	ADA-COMPLIANT LAVATORY
13 3423.16.A02	ADA-COMPLIANT WATERCLOSET
13 3423.16.A03	ADA-COMPLIANT GRAB BAR
13 3423.16.A04	ADA-COMPLIANT MIRROR
13 3423.16.A07	ADA-COMPLIANT TOWEL DISPENSER
13 3423.16.A08	ADA-COMPLIANT TOILET TISSUE DISPENSER
13 3423.16.A09	ADA-COMPLIANT SOAP DISPENSER
13 3423.16.A12	ADA-COMPLIANT SANITARY NAPKIN DISPOSAL UNIT
13 3423.16.C01	COUNTERTOP
13 3423.16.C04	CEILING PANEL
13 3423.16.D	DOWNSPOUT
13 3423.16.D01	DOOR
13 3423.16.F01	FACIA
13 3423.16.F03	FLOOR
13 3423.16.L01	LIGHT FIXTURE
13 3423.16.R01	ROOF PANEL
13 3423.16.R02	ROOF INSULATION
13 3423.16.W01	WINDOW
13 3423.16.W	WALL PANEL

SHEET KEYNOTES

341	PLUMBING VENT.
377	STRUCTURAL CAST-IN-PLACE CONCRETE FOUNDATION.

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SEAL

PROJECT NAME:
ROCA HONDA URANIUM MINE
SECTION 16
SITE DEVELOPMENT

MARK	DATE	DESCRIPTION
-	12/02/2011	60% DESIGN REVIEW

PROJECT NO: 11-600-019-00

DRAWN BY ASB
CHECKED BY TR

SHEET TITLE
GUARDHOUSE BLDG - PLANS, ELEVATIONS, & SECTIONS

A-101F

SHEET 85 OF 85

NOT FOR CONSTRUCTION

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