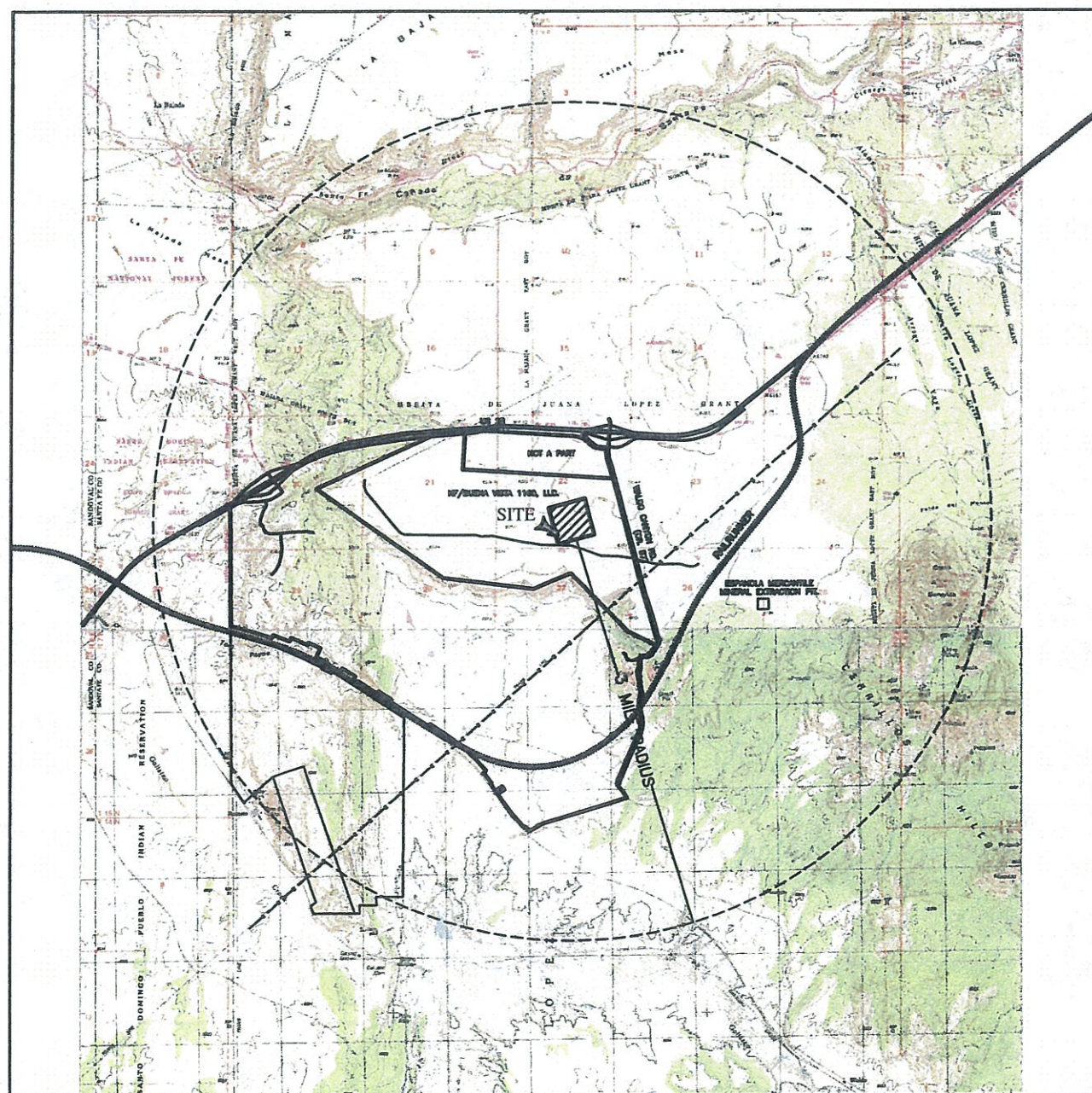


BUENA VISTA LLC. & ROCKOLOGY LIMITED LLC.

MINERAL EXTRACTION OF CONSTRUCTION MATERIALS



VICINITY MAP

TOWNSHIP 15N, RANGE 7E,
SECTION 22

OWNER: BUENA VISTA, LLC.
931 SAN PEDRO SE
ALBUQUERQUE, NM 87108
(505) 301-0444

OPERATOR: ROCKOLOGY, LLC.
3801 PAN AMERICAN FWY. N.E.
ALBUQUERQUE, NM 87107
(505) 344-8826

CONSULTANTS: JAMES W. SIEBERT AND ASSOCIATES
PLANNING CONSULTANT
915 MERCER STREET
SANTA FE, NM 87501
(505) 983-5588

JORGE GONZALEZ, P.E.
ENGINEER
38 MOUNTAIN VIEW LANE
EDGEWOOD, NM 87501
(505) 577-0033

PRECISION SURVEY
SURVEYOR
8500 A JEFFERSON ST., N.E.
ALBUQUERQUE, NM 87113
(505) 856-5700

INDEX TO SHEETS

LIST OF SHEETS	SHEET NUMBER
COVER SHEET	1
AERIAL PHOTO	2
EXISTING CONDITIONS	3
TOPOGRAPHY, NATURAL DRAINAGE & SOILS PLAN	4
USGS MAP & DRAINAGE BASIN	5
SURVEY PLAT OF BOUNDARY	6
SITE PLAN	7
OPERATIONS SITE PLAN	8
GRADING PLAN, PHASE I	9
RECLAMATION PLAN, PHASE I	10
SWPPP PLAN, PHASE I	11
GRADING PLAN, PHASE II	12
RECLAMATION PLAN, PHASE II	13
SWPPP PLAN, PHASE II	14
GRADING PLAN, PHASE III	15
RECLAMATION PLAN, PHASE III	16
SWPPP PLAN, PHASE III	17
SWPPP NOTES	18

COUNTY

APPROVED BY THE COUNTY DEVELOPMENT REVIEW COMMITTEE
AT THEIR MEETING OF _____, 2014.

CHAIRPERSON _____ DATE _____

APPROVED BY THE BOARD OF COUNTY COMMISSIONERS OF
SANTA FE COUNTY AT THEIR MEETING OF _____, 2014.

CHAIRPERSON _____ DATE _____

ATTESTED BY COUNTY CLERK _____ DATE _____

COUNTY REVIEW

COUNTY FIRE MARSHAL _____ DATE _____

PUBLIC WORKS _____ DATE _____

LAND USE ADMINISTRATOR _____ DATE _____


RURAL ADDRESSING _____ DATE _____

CONSENT OF OWNERS

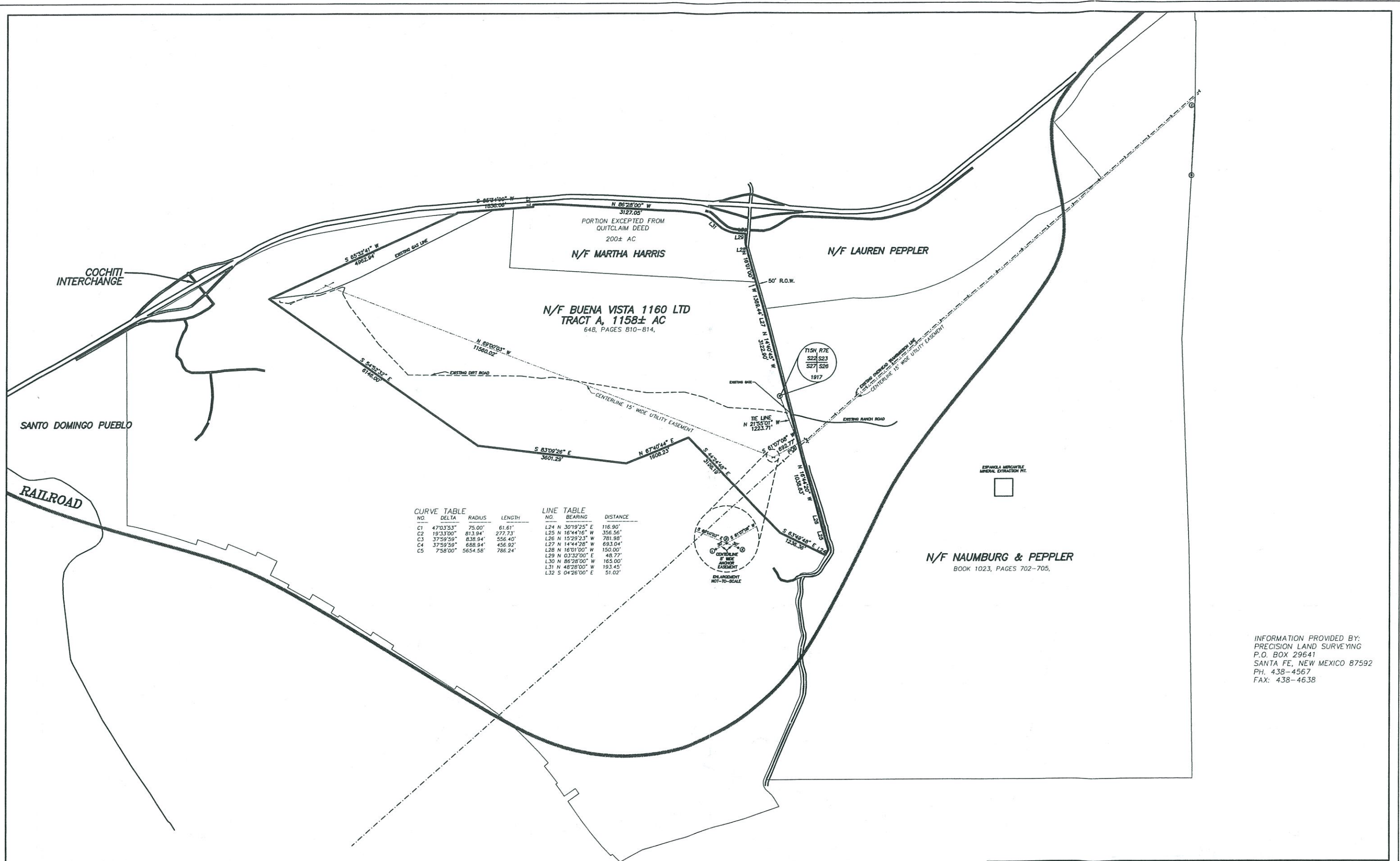
MANAGING MEMBER, BUENA VISTA LLC. _____ DATE _____

JAMES W. SIEBERT AND ASSOCIATES, INC. <small>915 MERCER STREET • SANTA FE, NEW MEXICO 87505</small>	MATERIAL EXTRACTION PLAN	SCALE 1"=3000' DATE NOVEMBER 2013 DRAWN BY: HF CHECKED BY JWS REVISION 00/00/00 FILE NAME	NORTH SHEET
	COVER SHEET		



JAMES W. SIEBERT AND ASSOCIATES, INC. <small>815 MERCER STREET • SANTA FE, NEW MEXICO 87505</small>	MATERIALS EXTRACTION PLAN		SCALE 1"=500'	DATE NOVEMBER 2013	NORTH  SHEET 2
	DRAWN BY: HR	CHECKED BY: JWS	REVISED: 00/00/00	FILE NAME: 20311	

I:\SERVERS\Public\Users Shared\Folders\2003\2013\11-13\11-MN-EXCO-11.dwg, 11/7/2013 10:33 PM

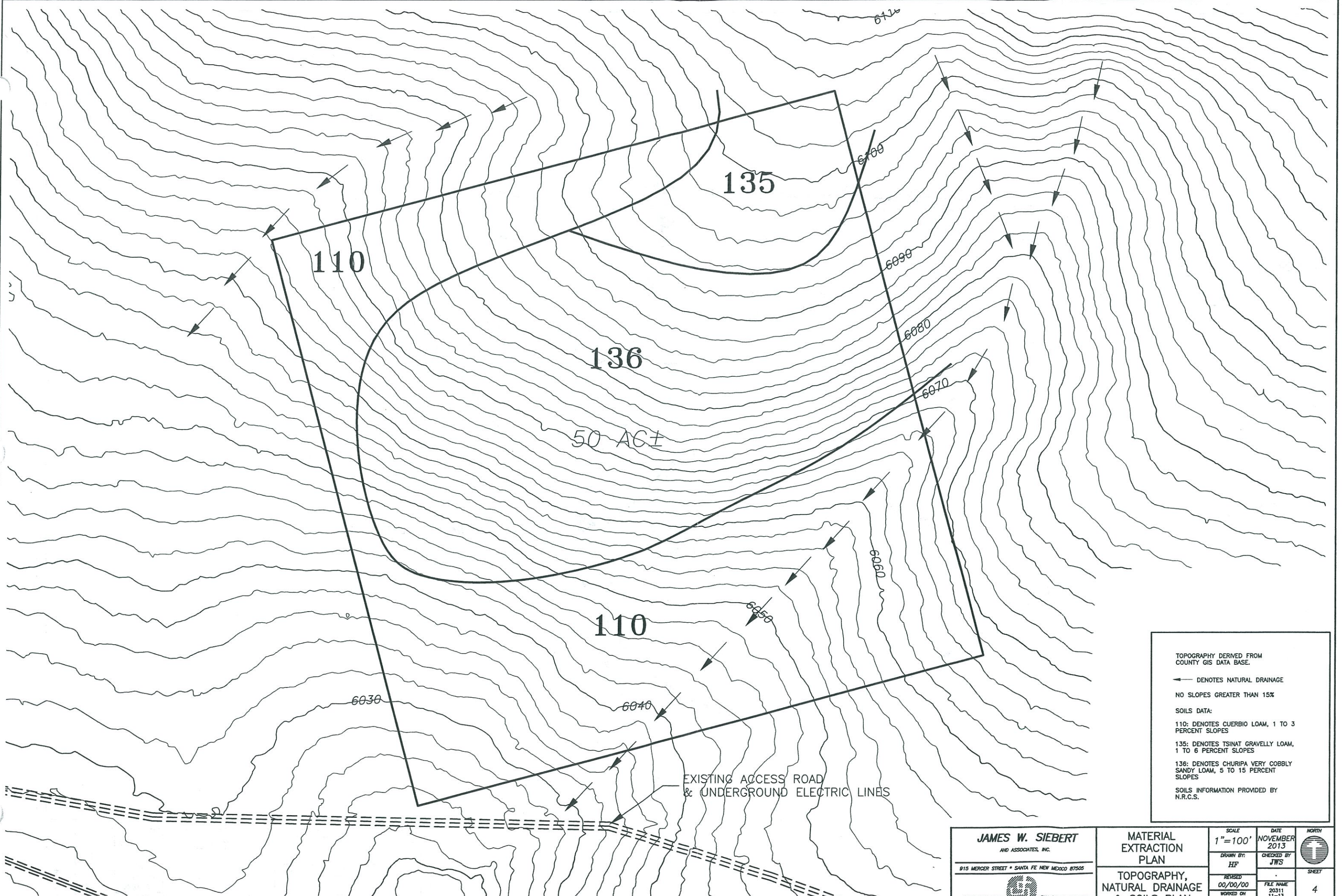


CURVE TABLE				LINE TABLE		
NO.	DELTA	RADIUS	LENGTH	NO.	BEARING	DISTANCE
C1	47°03'53"	75.00'	61.61'	L24	N 30°19'25" E	116.90'
C2	19°33'00"	813.94'	277.73'	L25	N 16°44'16" W	356.56'
C3	37°59'59"	838.94'	556.40'	L26	N 15°29'23" W	781.98'
C4	37°59'59"	838.94'	456.92'	L27	N 14°44'28" W	693.04'
C5	7°58'00"	5654.58'	786.24'	L28	N 16°01'00" W	150.00'
				L29	N 03°32'00" E	48.77'
				L30	N 86°28'00" W	165.00'
				L31	N 48°28'00" W	193.45'
				L32	S 04°26'00" E	51.02'

INFORMATION PROVIDED BY:
 PRECISION LAND SURVEYING
 P.O. BOX 29641
 SANTA FE, NEW MEXICO 87592
 PH. 438-4567
 FAX: 438-4638

JAMES W. SIEBERT AND ASSOCIATES, INC. 915 MERCER STREET • SANTA FE, NEW MEXICO 87505	MATERIALS EXTRACTION PLAN		SCALE 1" = 1000'	DATE NOVEMBER 2013	NORTH
	DRAWN BY: HP		CHECKED BY JWS	SHEET 3	
REVISION 00/00/00		FILE NAME 201311		EXISTING CONDITIONS MAP	

\\sieserver\p\Users Shared Folders\20311\11-13\311-MN-TOPO-11.dwg, 11/7/2013 7:20 PM



TOPOGRAPHY DERIVED FROM COUNTY GIS DATA BASE.

← DENOTES NATURAL DRAINAGE

NO SLOPES GREATER THAN 15%

SOILS DATA:

110: DENOTES CUERBIO LOAM, 1 TO 3 PERCENT SLOPES

135: DENOTES TSINAT GRAVELLY LOAM, 1 TO 6 PERCENT SLOPES

136: DENOTES CHURIPA VERY COBBLY SANDY LOAM, 5 TO 15 PERCENT SLOPES

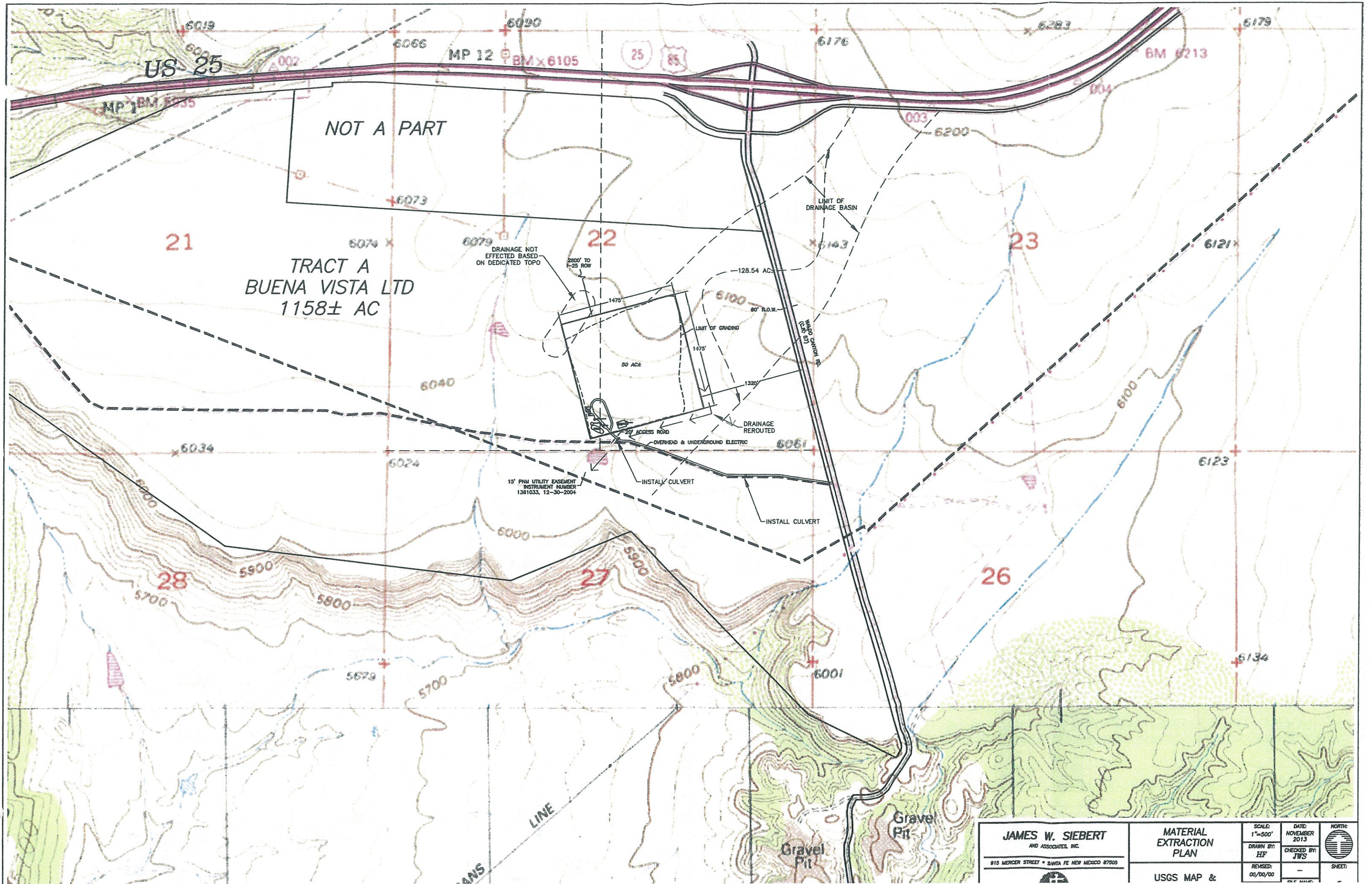
SOILS INFORMATION PROVIDED BY N.R.C.S.

JAMES W. SIEBERT
AND ASSOCIATES, INC.
915 MERCER STREET • SANTA FE NEW MEXICO 87505

MATERIAL EXTRACTION PLAN
TOPOGRAPHY, NATURAL DRAINAGE & SOILS PLAN

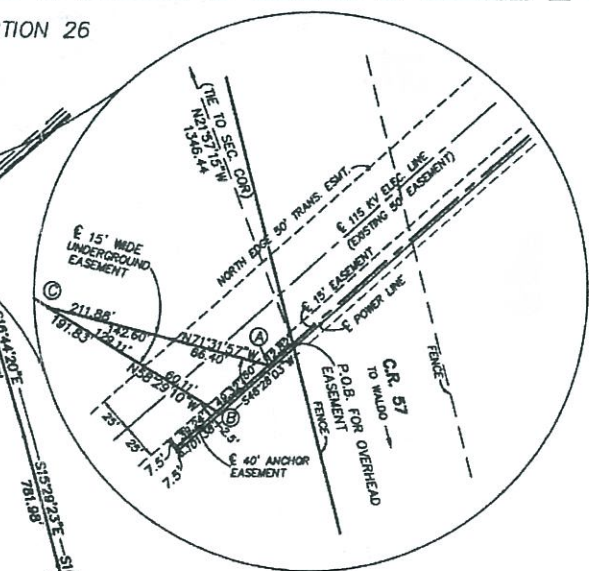
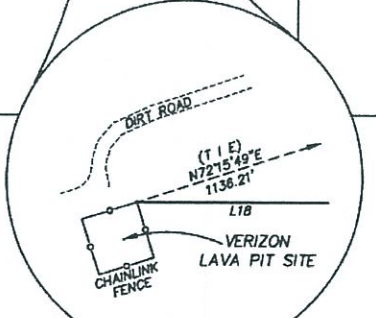
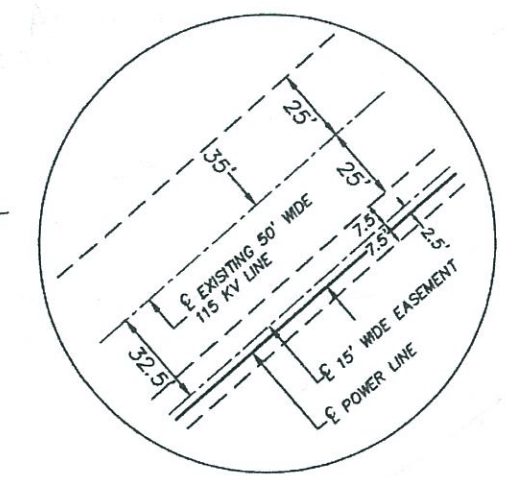
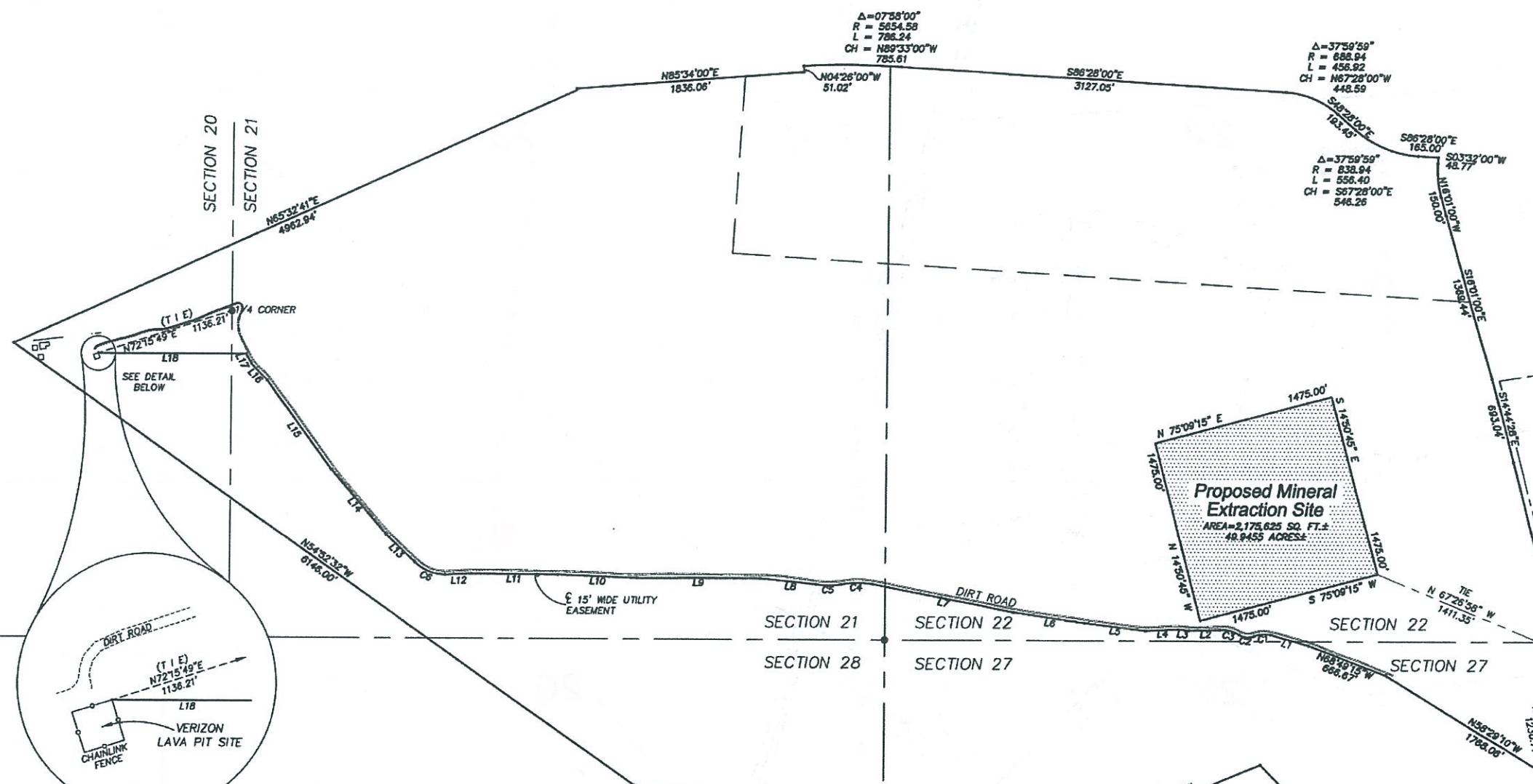
SCALE 1"=100'	DATE NOVEMBER 2013	NORTH
DRAWN BY: HP	CHECKED BY: JWS	SHEET 4
REVISED 00/00/00	FILE NAME 20311 11-13	





JAMES W. SIEBERT AND ASSOCIATES, INC. 915 MERCER STREET • SANTA FE NEW MEXICO 87505	MATERIAL EXTRACTION PLAN		SCALE: 1"=500'	DATE: NOVEMBER 2013	NORTH: 	
	USGS MAP &		DRAWN BY: HF	CHECKED BY: JWS	SHEET: 	
			REVISED: 00/00/00			

Exhibit Showing
Proposed Mineral Extraction Site
Lands of Buena Vista-1160 Ltd.
 Section 22, Township 15 North, Range 7 East, N.M.P.M.
 Santa Fe County, New Mexico
 January 2008

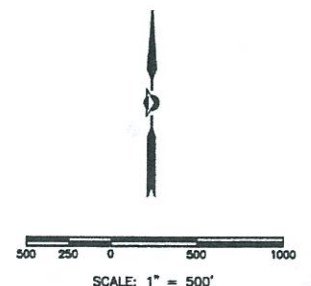


LINE	BEARING	DISTANCE
L1	N74°12'13"W	319.26'
L2	S89°00'42"W	250.92'
L3	N84°40'29"W	90.51'
L4	S87°11'54"W	264.13'
L5	N83°04'23"W	505.10'
L6	N81°50'32"W	581.22'
L7	N78°46'56"W	1155.50'
L8	N84°12'00"W	455.72'
L9	S89°55'35"W	991.42'
L10	N87°51'13"W	636.17'
L11	N89°28'08"W	694.45'
L12	S87°15'03"W	210.36'
L13	N46°49'26"W	325.54'
L14	N40°47'34"W	689.06'
L15	N35°56'28"W	881.77'
L16	N43°56'27"W	182.76'
L17	N29°02'29"W	90.04'
L18	N89°55'10"W	1198.69'

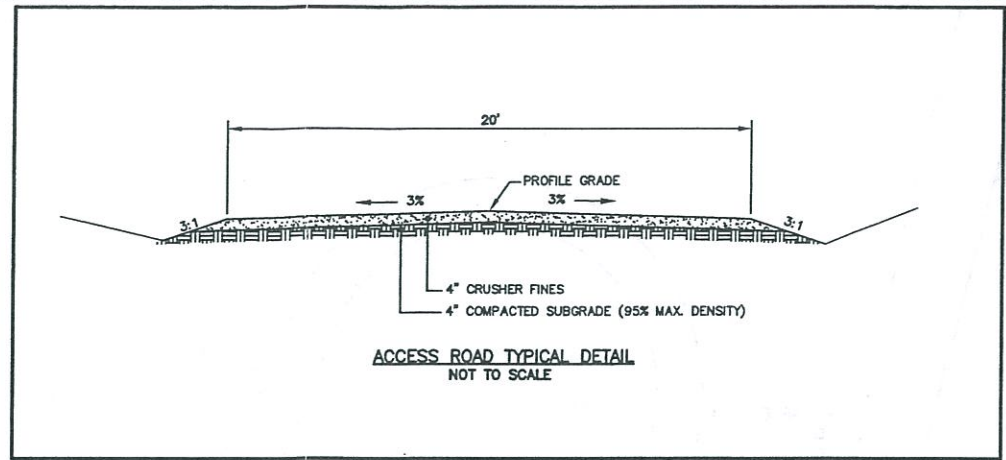
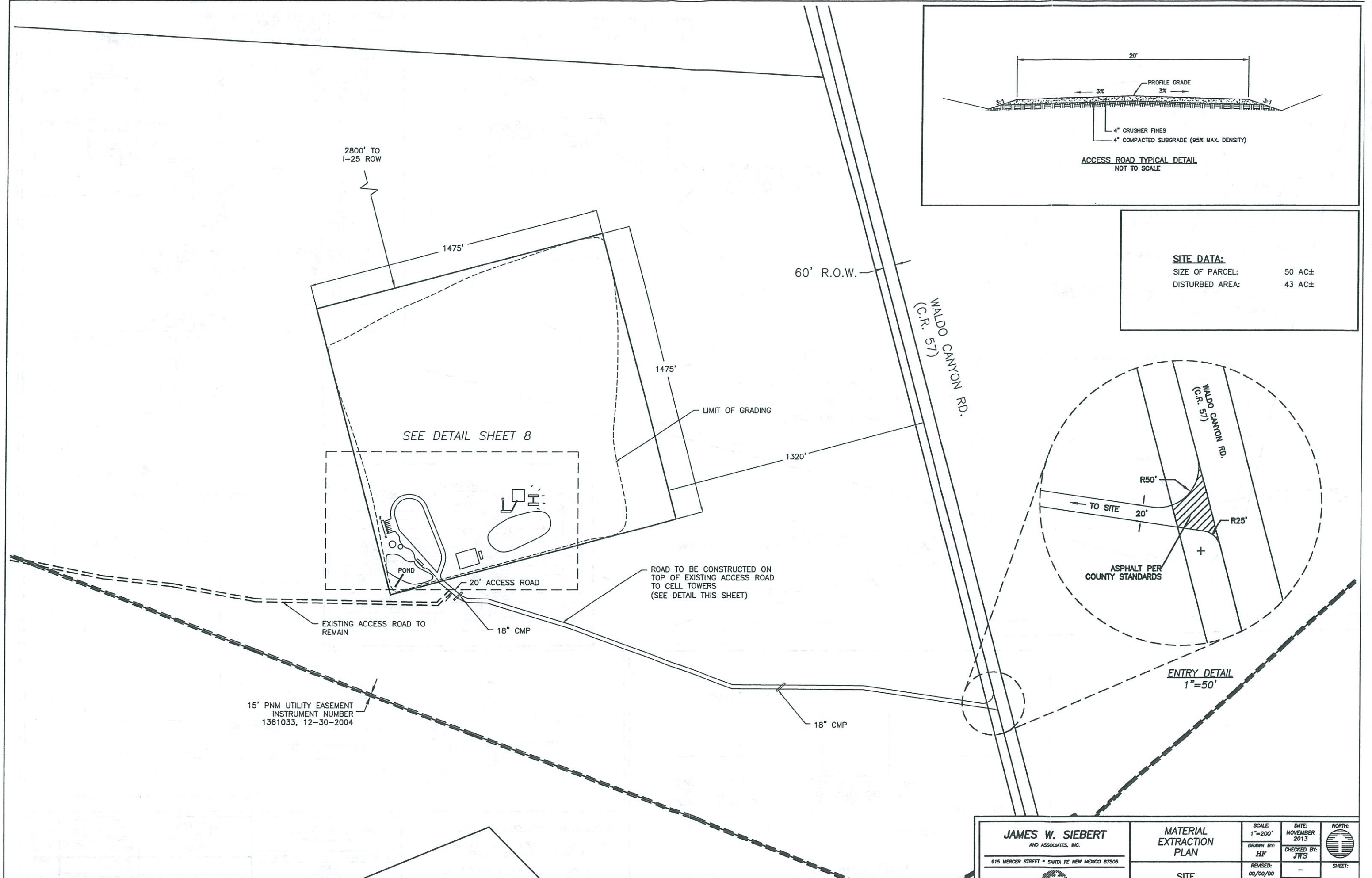
CURVE	DELTA	RADIUS	LENGTH	CHORD	DISTANCE
C1	32°19'21"	240.41'	135.62'	S84°51'50"W	133.83'
C2	53°25'41"	132.64'	123.69'	S84°35'00"W	119.25'
C3	37°58'42"	248.32'	164.67'	N76°52'01"W	161.67'
C4	19°35'50"	732.53'	250.55'	S89°05'24"W	249.33'
C5	21°45'26"	552.17'	209.68'	S89°49'48"E	208.42'
C6	43°24'51"	356.72'	270.30'	S86°07'46"E	263.88'

REFERENCE AND BASIS OF BEARINGS:
 QUITCLAIM DEED FROM HUGH J. GRAHAM, JR. AND JOAN GRAHAM, JERRY D. GEIST AND SHARON L. GEIST AND PETER H. NAUMBERG TO BUENA VISTA-1160, L.T.D., A NEW MEXICO LIMITED PARTNERSHIP, FILED IN THE OFFICE OF THE COUNTY CLERK, SANTA FE COUNTY, NEW MEXICO IN BOOK 648, PAGES 810-814.

LEGEND
 • CALCULATED CORNER.
 ⊙ U.S.G.L.O. BRASS CAP.

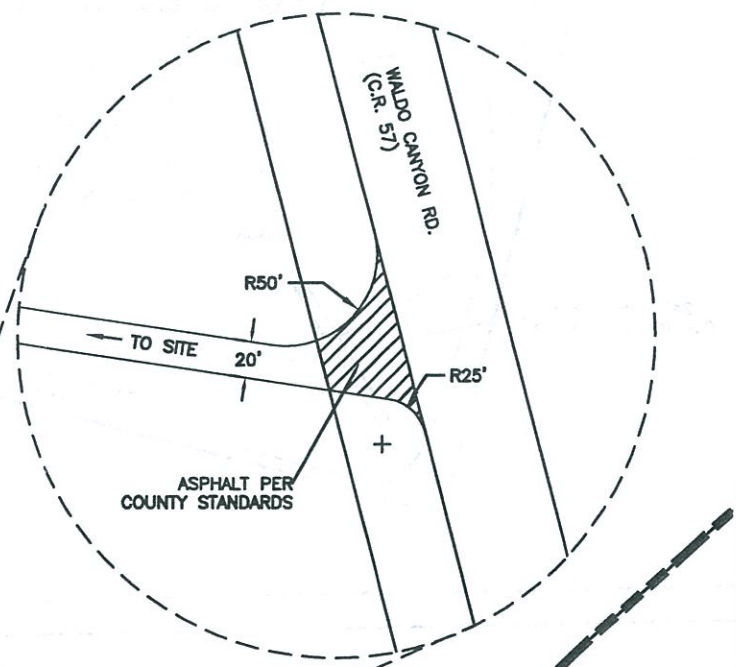


PRECISION SURVEYS, INC.
 8500-A Jefferson Street, NE
 Albuquerque, NM 87113
 866.442.8011 TOLL FREE
 505.856.5700 PHONE
 505.856.7900 FAX

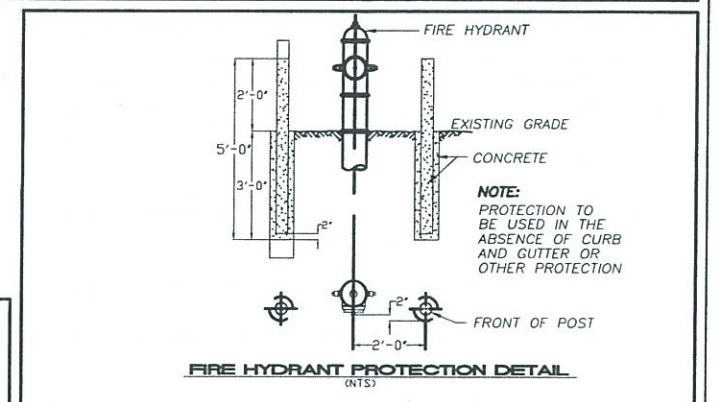
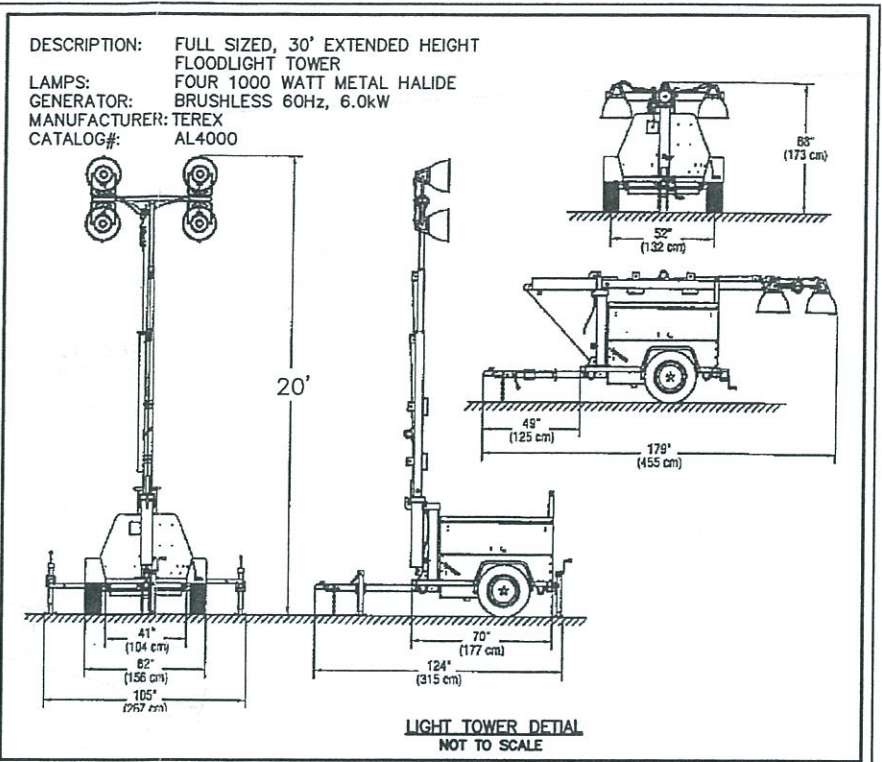
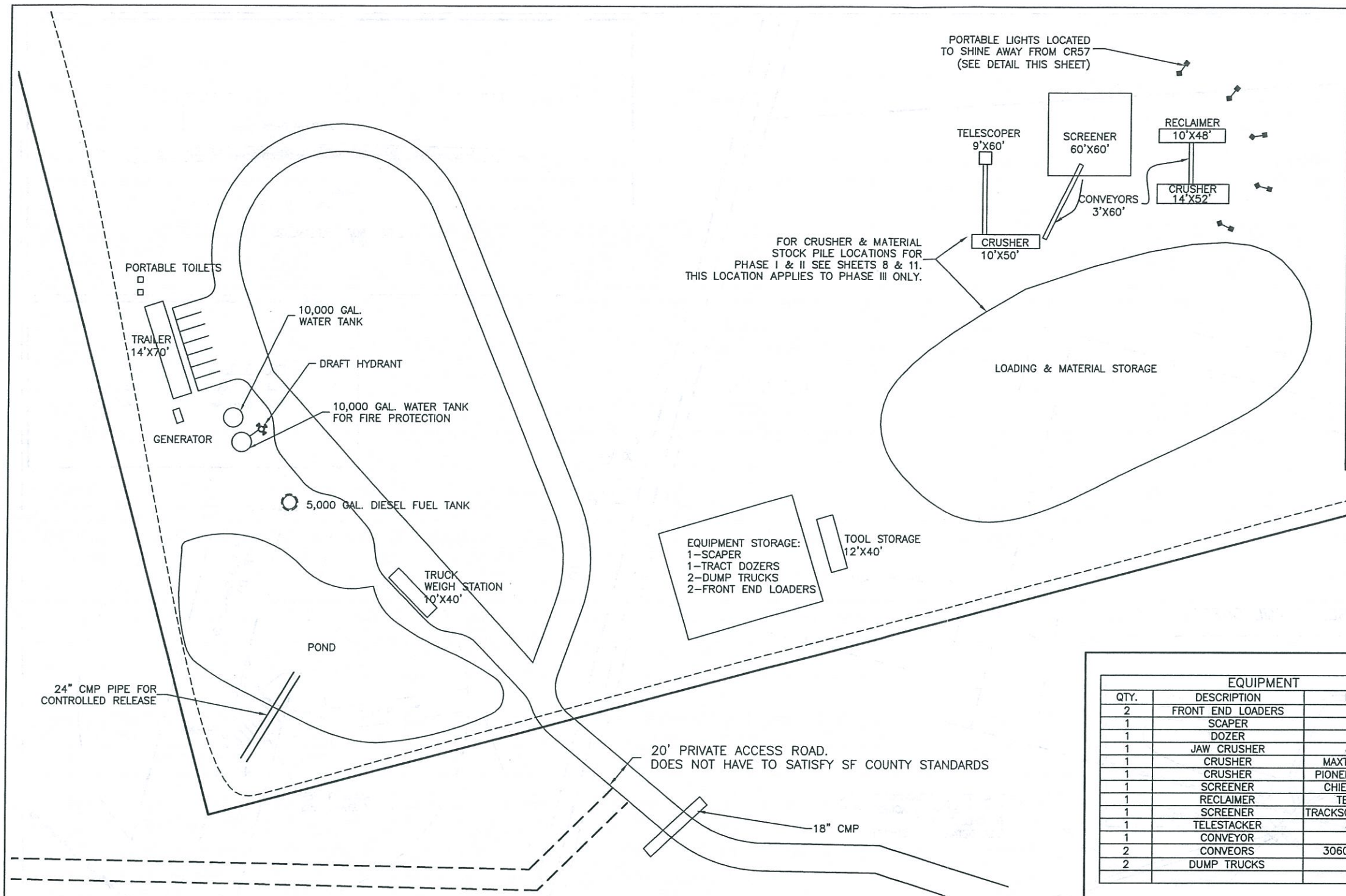


SITE DATA:

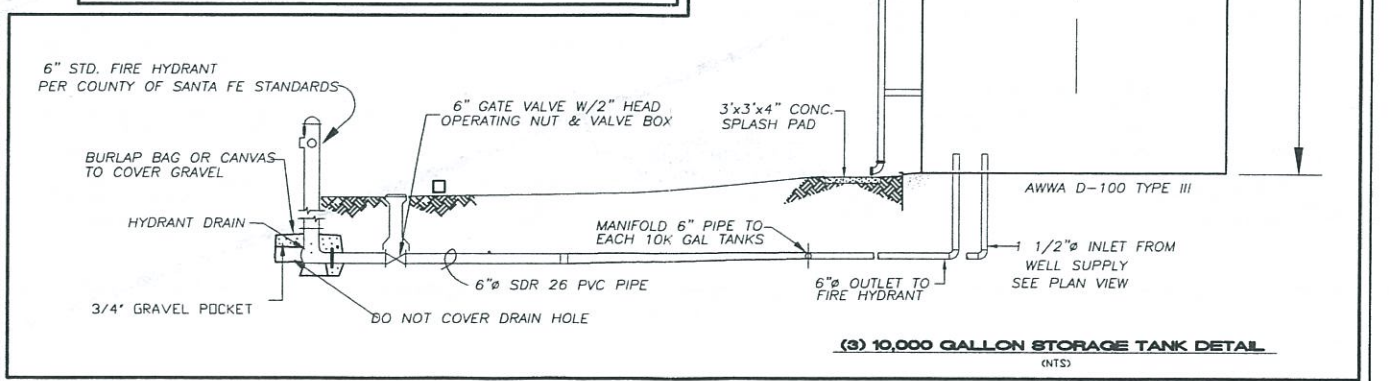
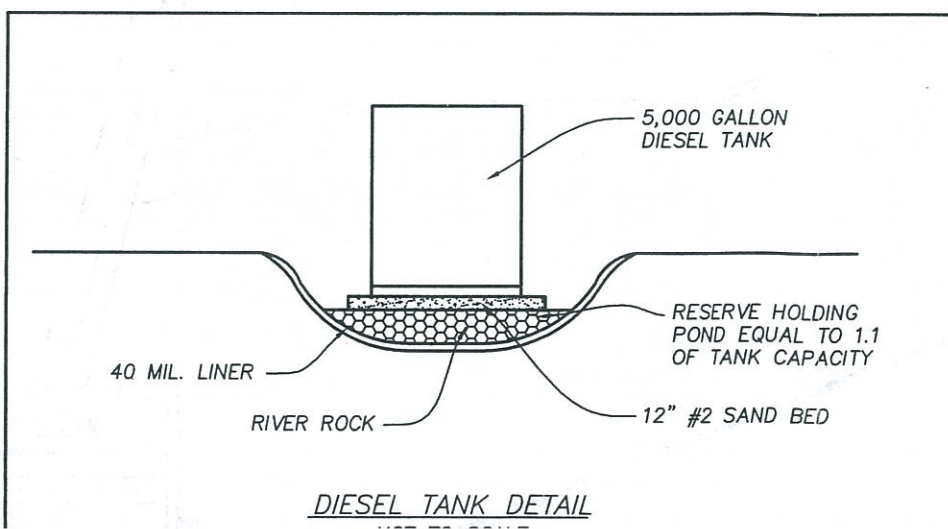
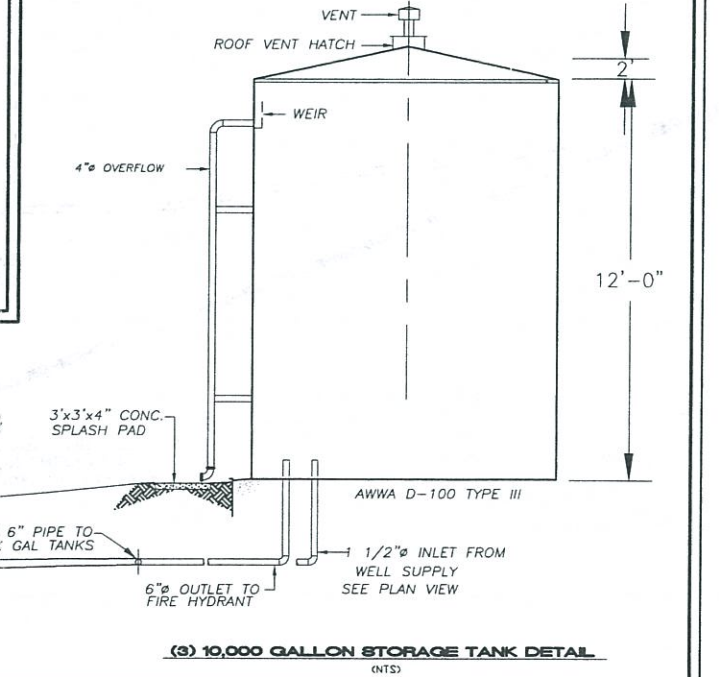
SIZE OF PARCEL:	50 AC±
DISTURBED AREA:	43 AC±



JAMES W. SIEBERT AND ASSOCIATES, INC. <small>915 MERCER STREET • SANTA FE, NEW MEXICO 87505</small>	MATERIAL EXTRACTION PLAN SITE	SCALE: 1"=200'	DATE: NOVEMBER 2013	NORTH SHEET:
		DRAWN BY: HIF	CHECKED BY: JWS	
		REVISED: 00/00/00		



EQUIPMENT		
QTY.	DESCRIPTION	MODEL#
2	FRONT END LOADERS	
1	SCAPER	
1	DOZER	
1	JAW CRUSHER	J-1175
1	CRUSHER	MAXTRACK 1000
1	CRUSHER	PIONEER FT4240CC
1	SCREENER	CHIEFTAIN 2100
1	RECLAIMER	TEREX 883
1	SCREENER	TRACKSCREEN IT 6X16
1	TELESTACKER	36X150
1	CONVEYOR	36X60
2	CONVEYORS	3060LR/3060LS
2	DUMP TRUCKS	



ADDITIONAL FIRE PROTECTION MEASURES:

- 20 POUND ABC FIRE EXTINGUISHERS IN TRAILER, TOOL STORAGE & SCREEN/CRUSHER
- 10 POUND ABC FIRE EXTINGUISHER IN ALL EQUIPMENT

JAMES W. SIEBERT AND ASSOCIATES, INC.
915 MERCER STREET • SANTA FE NEW MEXICO 87505

MATERIAL EXTRACTION PLAN

SCALE: 1"=40'

DATE: NOVEMBER 2013

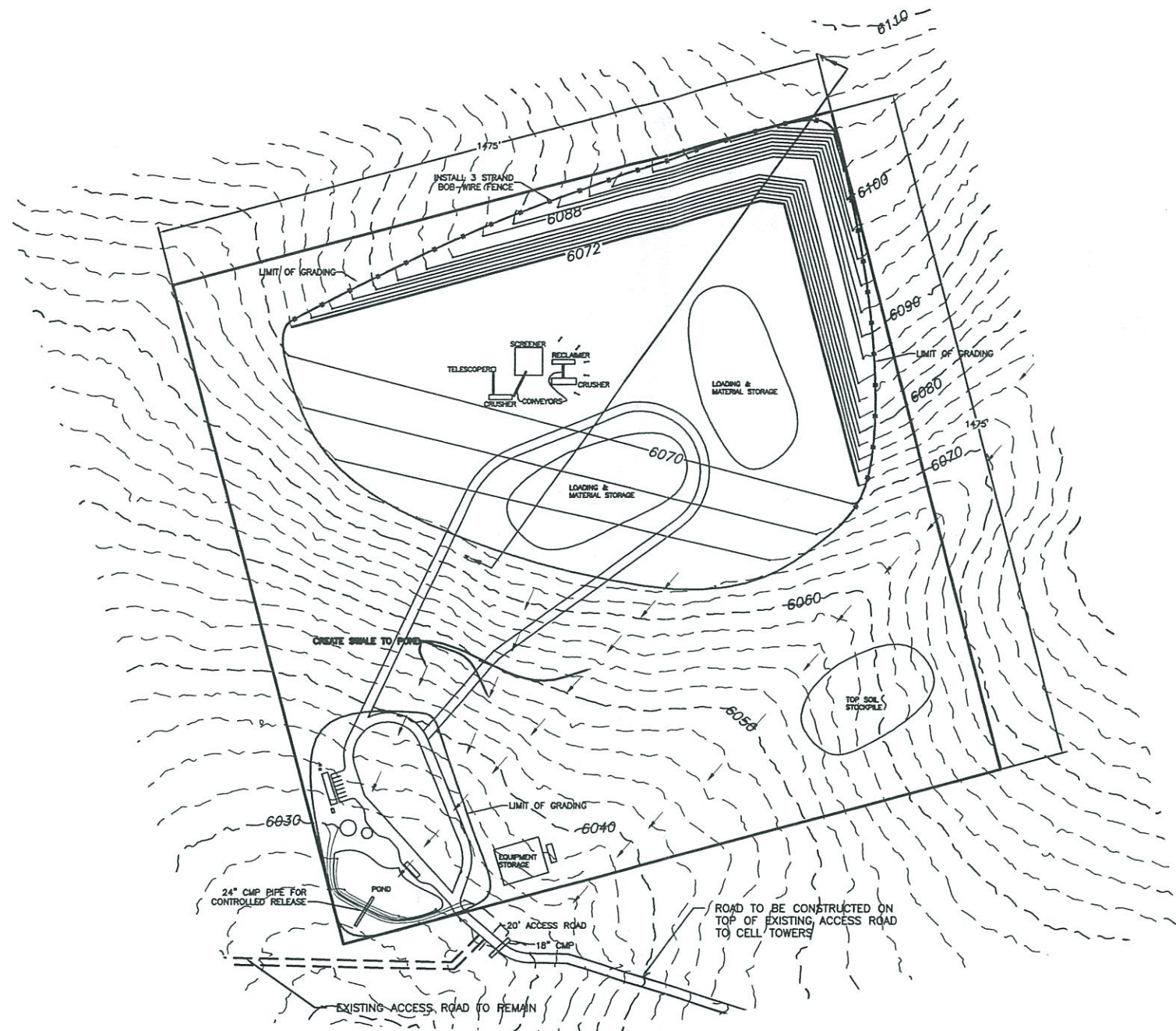
DRAWN BY: PST/HF

CHECKED BY: JWS

REVISED: 01/22/2014

OPERATIONS SITE PLAN

SHEET: 1



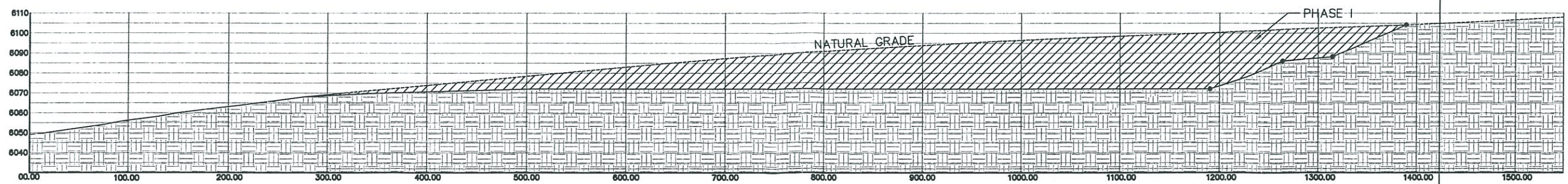
SITE DATA:
 PHASE I: 2014-2020
 ESTIMATE OF MATERIAL REMOVAL: 326,000 CUBIC YARDS
 TOP SOIL STOCKPILED: 17,000 CUBIC YARDS
 AREA OF DISTURBANCE: 24.58 AC±

LEGEND:
 — DENOTES DRAINAGE
 - - - EXISTING CONTOUR
 — NEW CONTOUR

**STORM DRAINAGE CALCULATION
 FOR ALL THREE (3) PHASES
 FOR DISTURBED GRADED AREA OF 1,562,390 S.F.
 AND STORAGE AREA AND EQUIPMENT OF 23,000 S.F.**

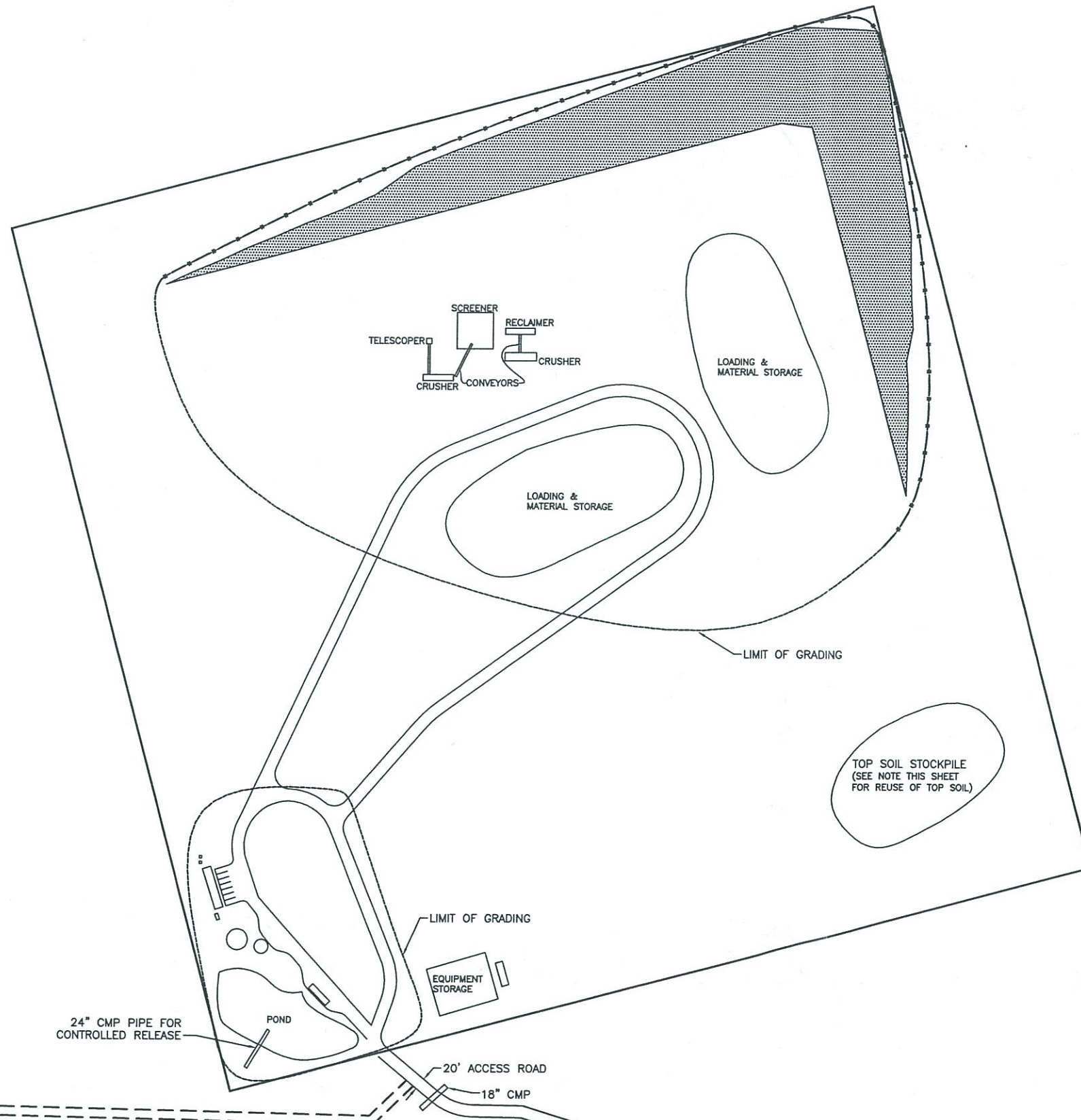
SITE: 2175625 S.F. (50.00 AC)
 TIME OF CONCENTRATION: = 30.0 MIN.
 UNITS DISCHARGE: 1.8 CFS/AC-IN
 100-YR RAINFALL: 3.6 IN

PRE-DEVELOPMENT			POST DEVELOPMENT		
CN	SF	%	CN	SF	%
UNDISTURBED:	82	2175625.00	100.00	82.00	590235.00
ROOF/PORTALS:	95		0.00	0.00	23000.00
DISTURBED AREA:	84		0.00	0.00	1562390.00
					71.81
					60.36
WEIGHTED CN:			82.00		83.57
RUNOFF:	1.87 IN		1.99 IN		
PEAK:	167.711 CFS		178.751 CFS		
VOLUME:	7.7644 AC-FT		8.2755 AC-FT		
VOLUME:	338218 CF		360482 CF		
RETAINAGE NEEDED TOTAL:	22,264 CF				
RETAINAGE AVAILABLE:	20,830 SF X 1.5 FT DEEP = 31, 245 CF				
TIME TO DISCHARGE POND AT 16 CFS (24°CMP) EQUALS TO 360482 CF TOTAL/16 CFS = 22530 SEC.=375 MIN= 6.25 HRS < 24 HRS OK					



SECTION A-A
 SCALE: 1:50 VERTICAL, 1:100 HORIZONTAL

	JORGE GONZALES, PE ENGINEERING CONSULTANT 38 MOUNTAIN VIEW RD • EDGEWOOD, NM 87015	MATERIAL EXTRACTION PLAN	SCALE 1"=150'	DATE NOVEMBER 2013	
	DRAWN BY: HP	CHECKED BY: JWS	REVISIONS:	SHEET	



SITE DATA:
 PHASE I: 2014-2021
 ESTIMATE OF MATERIAL REMOVAL: 326,000 CUBIC YARDS
 TOP SOIL STOCKPILED: 17,000 CUBIC YARDS

RECLAMATION PROCESS:

PLACE STOCKPILED TOPSOIL ON GRADED AREAS & RESEED AS FOLLOWS:

 DENOTES AREA TO BE RESEED PER FOLLOWING SEEDING SPECIFICATIONS.

NOTE: RESEEDING TO OCCUR UPON COMPLETION OF EXCAVATION DEPTH FOR PHASE I.

ALL DISTURBED AREAS EXCEPT BUILDING AREAS AND LANDSCAPE PLANTING BEDS (SEE NOTE 1 BELOW) SHALL BE TREATED WITH CLASS "D" SEEDING AND SHALL INCLUDE HAND RAKING OR CHAIN HARROWING TO COVER SEED TO A DEPTH OF 1/4" TO 1/2". BLANKETS SHALL BE APPLIED AS SOON AS POSSIBLE AFTER THE SEED AND FERTILIZER ARE APPLIED. ALL REVEGETATED AREAS SHALL BE BLANKETED THE SAME DAY THEY ARE SEEDED.

SOIL RETENTION BLANKET USED FOR CLASS "D" SEEDING SHALL BE PPS SUPER DUTY, AMERICAN EXCELSIOR HIGH VELOCITY, NORTH AMERICAN GREEN S-150 OR APPROVED EQUAL. ANCHORING SHALL BE BY THE USE OF 8"x1"x8" "U" SHAPED STEEL STAPLES OF .091 MINIMUM DIAMETER AND SPACED AS RECOMMENDED BY THE MANUFACTURER. BLANKETS SHALL BE LAID FROM TOP TO BOTTOM ON THE SLOPE WITH SEAMS RUNNING VERTICALLY AND LAPPED AS PER MANUFACTURER'S RECOMMENDATION. BLANKETS SHALL BE INSTALLED ON ALL CUT SLOPES.

PRIOR TO PERFORMING SEEDING OPERATIONS ALL WEED SPECIES WHICH MAY HAVE GROWN IN AREAS TO BE SEEDED AND WILL INTERFERE WITH THE SEED MULCH MAKING CONTACT WITH THE SOIL SHALL BE REMOVED.

SEED MIX
 (CERTIFIED SEED OF NAMED VARIETIES ARE REQUIRED IF AVAILABLE)


SPECIES	ORIGIN	LBS. PURE LIVE SEED PER ACRE
BOUTELOUA GRACILIS (BLUE GRAMA)	HACHITA OR LOVINGTON	2.0
BOUTELOUA CURTIPENDULA (SIDE OATS GRAMA)	VAUGHN OR NINER	4.0
ANDROPOGON SPARSIUM (LITTLE BLUESTEM)	PASTURA	1.0
HILARIA JAMESII(GALLET)	VIVA	4.0
SPOROBOLUS AIROIDES (ALKALI SACATON)	NEW MEXICO REGION	0.5
ATRIPLIX CANESCENS (FOURWING SALTBUH)	NEW MEXICO REGION	1.0
FALLUGIA PARADOXA (APACHE PLUME)	NEW MEXICO REGION	1.0

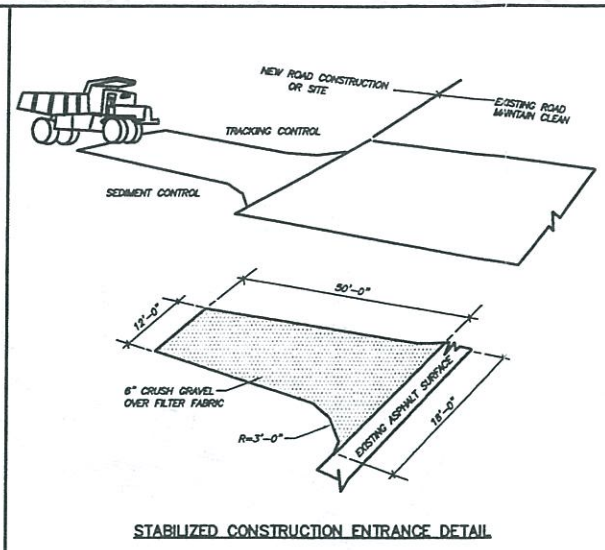
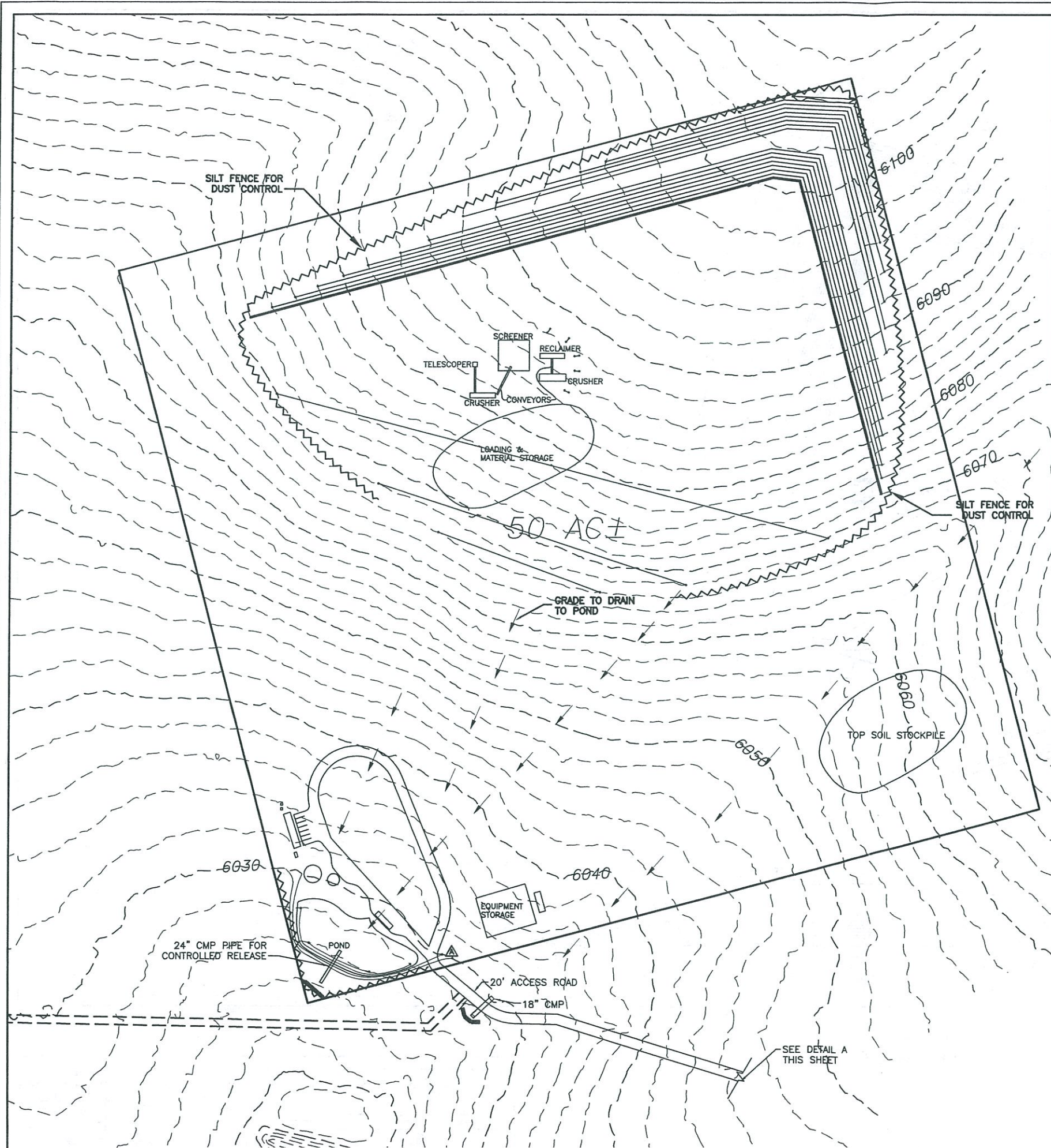
CHEMICAL	ACTUAL MIN. POUNDS/ACRE
23-13-0 PRAIRIE HAY	75 1000

SEEDING DATES
 RESEEDING WILL OCCUR ONLY DURING THE MONTHS OF JUNE, JULY & AUGUST FOR WARM SEASON SPECIES AND OCTOBER, NOVEMBER & DECEMBER FOR THE COOL SEASON SPECIES. SEEDED AREAS WILL BE PROTECTED FROM LIVESTOCK GRAZING UNTIL A VEGETATIVE COVER IS ESTABLISHED.

WATERING
 AFTER INSTALLATION OF SEED, THE REVEGETATING AREAS WILL BE WATERED FROM A TANKER TRUCK OR OTHER WATER SOURCE FOR A MINIMUM OF ONE TIME PER WEEK FOR TWO MONTHS.

ANY PROPOSED CHANGES OR MODIFICATIONS TO THIS PLAN SHALL BE DISCUSSED WITH THE ENGINEER PRIOR TO MAKING SUCH CHANGES OR MODIFICATIONS.

JAMES W. SIEBERT AND ASSOCIATES, INC. 915 MERCER STREET • SANTA FE NEW MEXICO 87505	MATERIAL EXTRACTION PLAN	SCALE 1" = 100'	DATE NOVEMBER 2013	
	RECLAMATION PLAN PHASE I	DRAWN BY: HP	CHECKED BY: JWS	
		REVISED 00/00/00	FILE NAME 20111	



GENERAL NOTES

- CONSTRUCTION MACHINERY AND EQUIPMENT SHALL BE MAINTAINED SUCH THAT NO FLUIDS (GASOLINE, OIL, ETC.) ARE PERMITTED TO LEAK ONTO THE GROUND. ACCIDENTAL SPILLS OF FLUIDS ARE TO BE CLEANED AND REMOVED FROM THE SITE IMMEDIATELY.
- SILT FENCES AND STRAW BALES SHALL BE PLACED AND/OR MOVED AS NEEDED TO PREVENT UNFILTERED STORM WATER FROM LEAVING THE CONSTRUCTION SITE.
- PORTABLE TOILETS: PLACE NO CLOSER THAN 100 FT FROM AN ARROYO, DRAINAGE WAY, OR DROP-INLET (IF POSSIBLE). STAKE THE UNIT TO THE GROUND TO PREVENT TIP OVER, OR SURROUND WITH A LOW BERM OR STRAW MATTE TO PROTECT AGAINST A POSSIBLE SPILL.

SPECIAL CONSIDERATIONS

BE AWARE THAT SOIL STABILIZERS MAY NEED TO BE USED ON THIS SITE, IF CONSTRUCTION ACTIVITIES CEASE TEMPORARILY FOR A 14 DAY PERIOD. THIS APPLIES TO THE SITE AS A WHOLE OR A PORTION OF THE SITE PER THE REGION 8 CONSTRUCTION GENERAL PERMIT.

SWPPP-RECOMMENDATIONS

ANYONE DOING WORK, WHICH WILL DISTURB SOILS ON THE PROPERTY, MUST COMPLY WITH THIS SWPPP - OR OBTAIN PERMISSION FROM THE OWNER/DEVELOPER TO WORK UNDER HIS PERMITTED SWPPP WITH AMENDMENTS MADE AND DOCUMENTED AS NECESSARY. IN ALL CASES, ALL ENTITIES WORKING WITHIN THE BOUNDARIES OF THIS SITE MUST COMPLY WITH THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

ALL PERMANENT STRUCTURAL CONTROLS (BMPs) SHOULD BE INSTALLED AT THE EARLIEST POSSIBLE TIMING AND BE PROPERLY MAINTAINED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

ALL TEMPORARY STORM WATER PREVENTIVE RUNOFF MEASURES SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTILL ALL PERMANENT DETENTION/PREVENTION STRUCTURES HAVE BEEN INSTALLED AND THE NOTICE OF TERMINATION (N.O.T.) IS FILED.

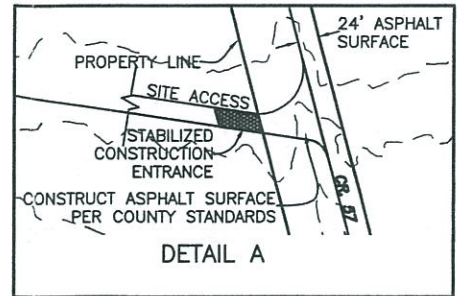
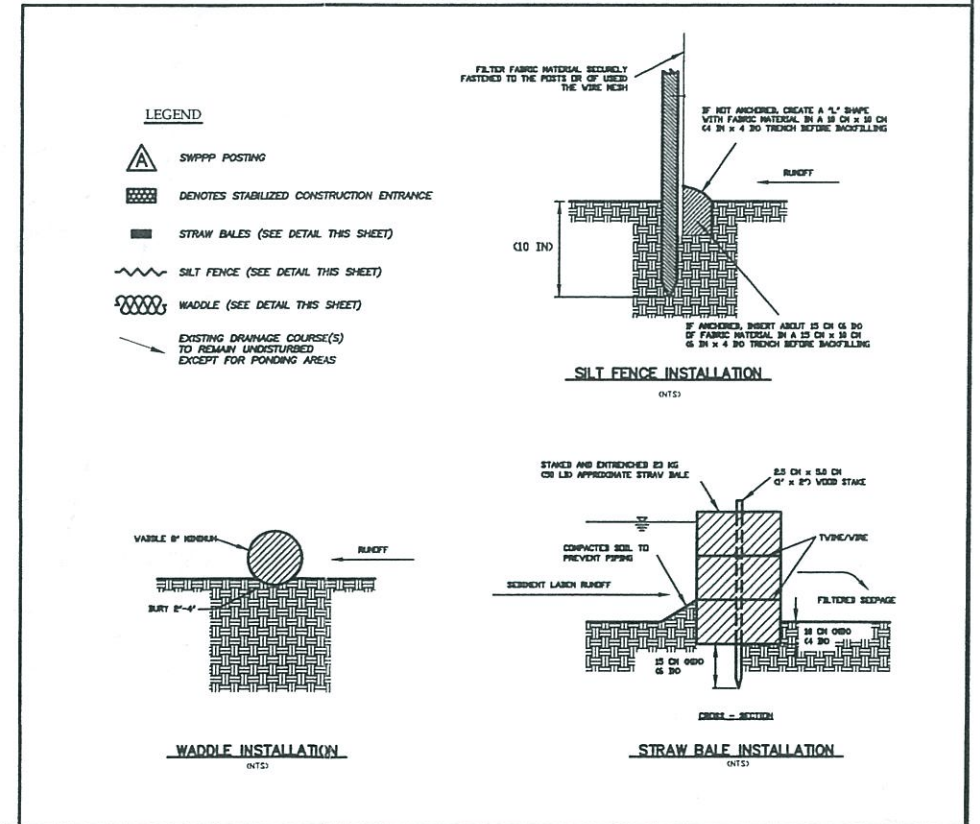
STABILIZED CONSTRUCTION ENTRANCE

PURPOSE: STABILIZING THE POINT OF INGRESS/EGRESS IS AN EFFECTIVE MEANS OF MINIMIZING THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

APPLICATION: ON SITE WHERE TRACKING ONTO PAVED ROADS FROM DIRT SUB-GRADE IS A POTENTIAL PROBLEM REVIEW SITE CONDITIONS FOR NEED AND DESIGN.

INSTALLATION: PROPERLY GRADE ENTRANCE TO PREVENT RUNOFF FROM CONSTRUCTION SITE. ROUTE RUNOFF FROM STABILIZED ENTRANCE THROUGH A SEDIMENT TRAP BEFORE DISCHARGE. DESIGN TRACKING ENTRANCE TO SUPPORT HEAVIEST VEHICLE USING THE CONTROL SURFACE. SELECT 6 INCH THICK CRUSHED AGGREGATE OVER GEOTEXTILE FABRIC. PROVIDE HOSE FOR WASHING TIRES.

INSPECTION: INSPECT ROUTINELY FOR DAMAGE OR DEGRADATION. REPAIR AS NEEDED. ENFORCE EMPLOYERS, SUBCONTRACTOR AND SUPPLIERS UTILIZE THE ENTRANCE. SERVICE AND MAINTAIN TRAPPING DEVICES DAILY.



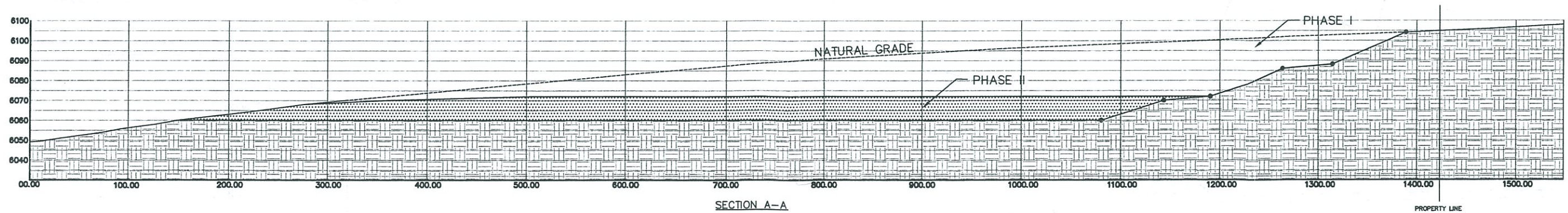
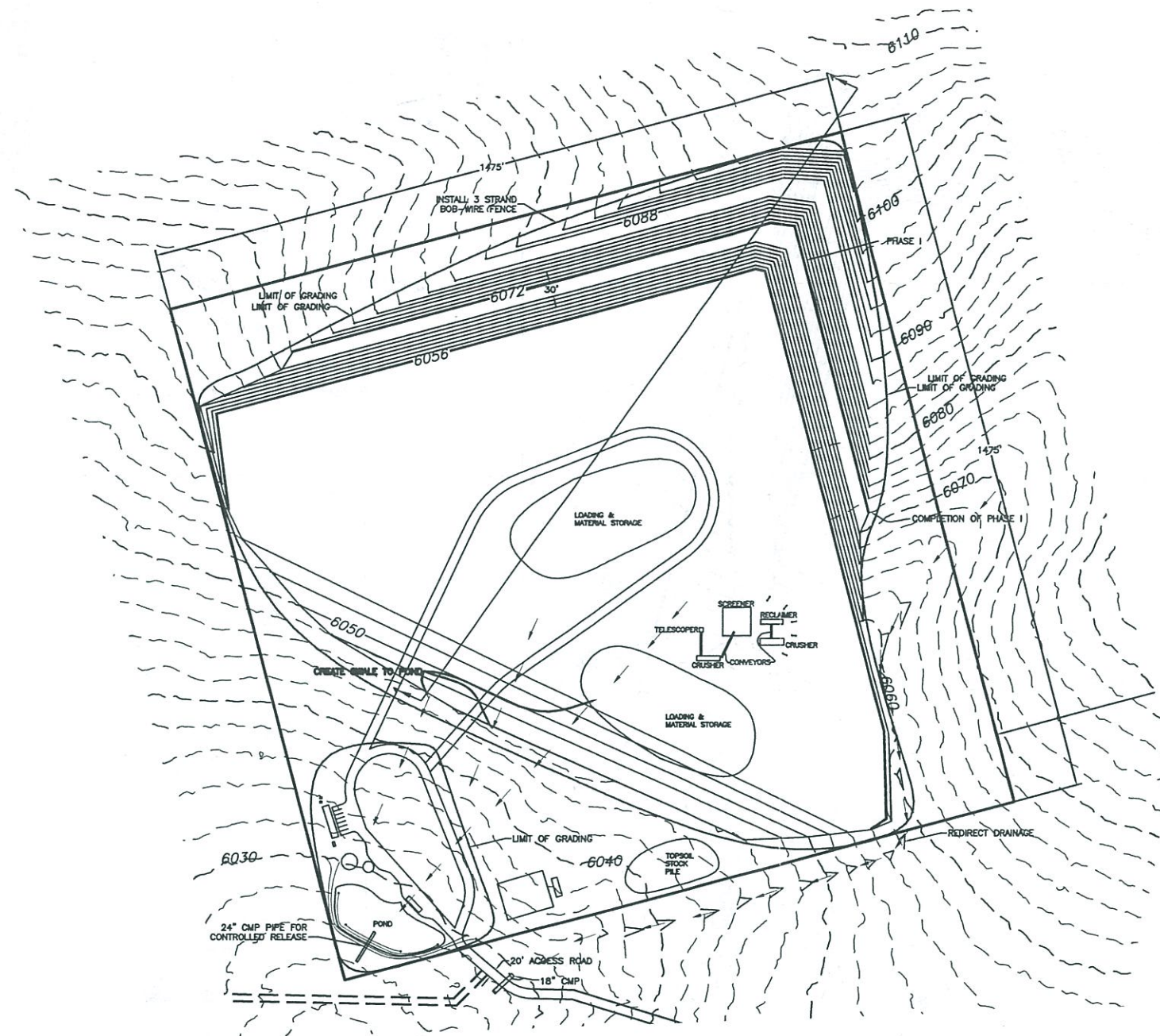
JAMES W. SIEBERT AND ASSOCIATES, INC. 815 MERCER STREET • SANTA FE, NEW MEXICO 87505	MATERIAL EXTRACTION PLAN	SCALE 1" = 100'	DATE NOVEMBER 2013	NORTH
		DRAWN BY: HF	CHECKED BY: JWS	
SWPPP PLAN		REVISED	SHEET	

SITE DATA:

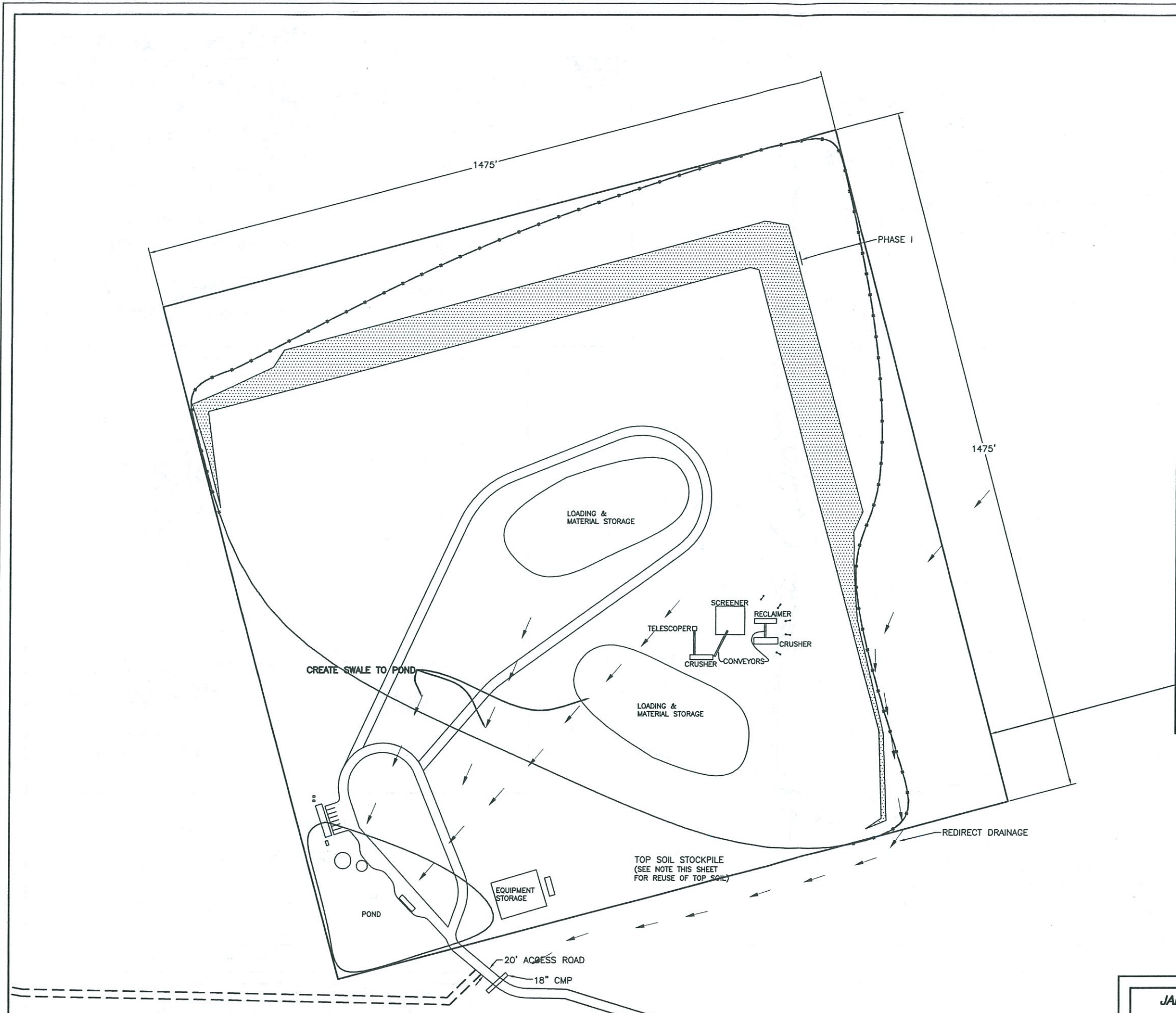
PHASE II: 2021-2028
 ESTIMATE OF MATERIAL REMOVAL: 397,000 CUBIC YARDS
 TOP SOIL STOCK PILE: 11,000 CUBIC YARDS
 AREA OF DISTURBANCE: 38.76 AC±

LEGEND:

- ← DENOTES DRAINAGE
- - - EXISTING CONTOUR
- NEW CONTOUR



JAMES W. SIEBERT AND ASSOCIATES, INC. 915 MERCER STREET • SANTA FE, NEW MEXICO 87505	MATERIAL EXTRACTION PLAN		SCALE 1" = 150'	DATE NOVEMBER 2013	NORTH 	
	GRADING PLAN.		DRAWN BY: HF	CHECKED BY: JWS	SHEET	
			REVISED 00/00/00	FILE NAME		



SITE DATA:
 PHASE II: 2021-2028
 ESTIMATE OF MATERIAL REMOVAL: 327,000 CUBIC YARDS
 TOP SOIL STOCK PILE: 11,000 CUBIC YARDS

LEGEND:
 ← DENOTES DRAINAGE

RECLAMATION PROCESS:
 PLACE STOCKPILED TOPSOIL ON GRADED AREAS & RESEED AS FOLLOWS:

☐ DENOTES AREA TO BE RESEED PER FOLLOWING SEEDING SPECIFICATIONS.

NOTE: RESEEDING TO OCCUR UPON COMPLETION OF EXCAVATION DEPTH FOR PHASE I.

ALL DISTURBED AREAS EXCEPT BUILDING AREAS AND LANDSCAPE PLANTING BEDS (SEE NOTE 1 BELOW) SHALL BE TREATED WITH CLASS "D" SEEDING AND SHALL INCLUDE HAND RAKING OR CHAIN HARROWING TO COVER SEED TO A DEPTH OF 1/4" TO 1/2". BLANKETS SHALL BE APPLIED AS SOON AS POSSIBLE AFTER THE SEED AND FERTILIZER ARE APPLIED. ALL REVEGETATED AREAS SHALL BE BLANKETED THE SAME DAY THEY ARE SEEDED.

SOIL RETENTION BLANKET USED FOR CLASS "D" SEEDING SHALL BE PPS SUPER DUTY, AMERICAN EXCELSIOR HIGH VELOCITY, NORTH AMERICAN GREEN S-150 OR APPROVED EQUAL. ANCHORING SHALL BE BY THE USE OF 8"x1"x8" "U" SHAPED STEEL STAPLES OF .091 MINIMUM DIAMETER AND SPACED AS RECOMMENDED BY THE MANUFACTURER. BLANKETS SHALL BE LAID FROM TOP TO BOTTOM ON THE SLOPE WITH SEAMS RUNNING VERTICALLY AND LAPPED AS PER MANUFACTURER'S RECOMMENDATION. BLANKETS SHALL BE INSTALLED ON ALL CUT SLOPES.

PRIOR TO PERFORMING SEEDING OPERATIONS ALL WEED SPECIES WHICH MAY HAVE GROWN IN AREAS TO BE SEEDED AND WILL INTERFERE WITH THE SEED MULCH MAKING CONTACT WITH THE SOIL SHALL BE REMOVED.

SEED MIX
 (CERTIFIED SEED OF NAMED VARIETIES ARE REQUIRED IF AVAILABLE)

SPECIES	ORIGIN	LBS. PURE LIVE SEED PER ACRE
BOUTELOUA GRACILIS (BLUE GRAMA)	HACHITA OR LOVINGTON	2.0
BOUTELOUA CURTIPENDULA (SIDE OATS GRAMA)	VAUGHN OR NINER	4.0
ANDROPOGON SCARPIOIUM (LITTLE BLUESTEM)	PASTURA	1.0
HILARIA JAMESII(GALLET)	VIVA	4.0
SPOROBOLUS AIROIDES (ALKALI SACATON)	NEW MEXICO REGION	0.5
ATRIPLEX CANESCENS (FOURWING SALTBUCH)	NEW MEXICO REGION	1.0
FALLUGIA PARADOXA (APACHE PLUME)	NEW MEXICO REGION	1.0

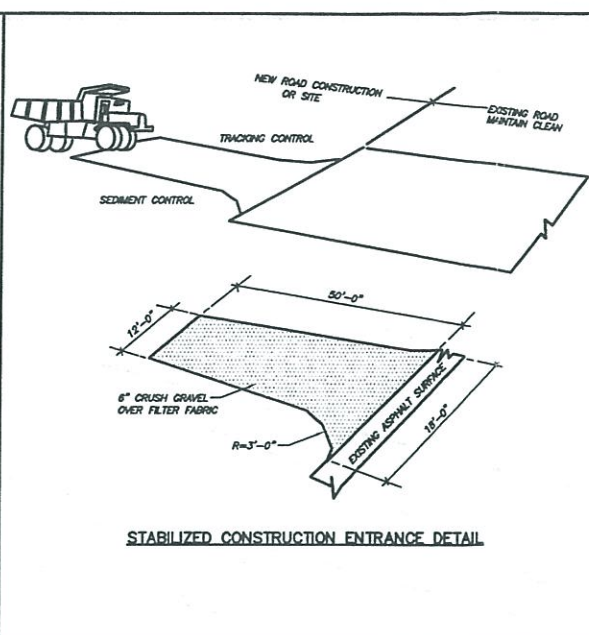
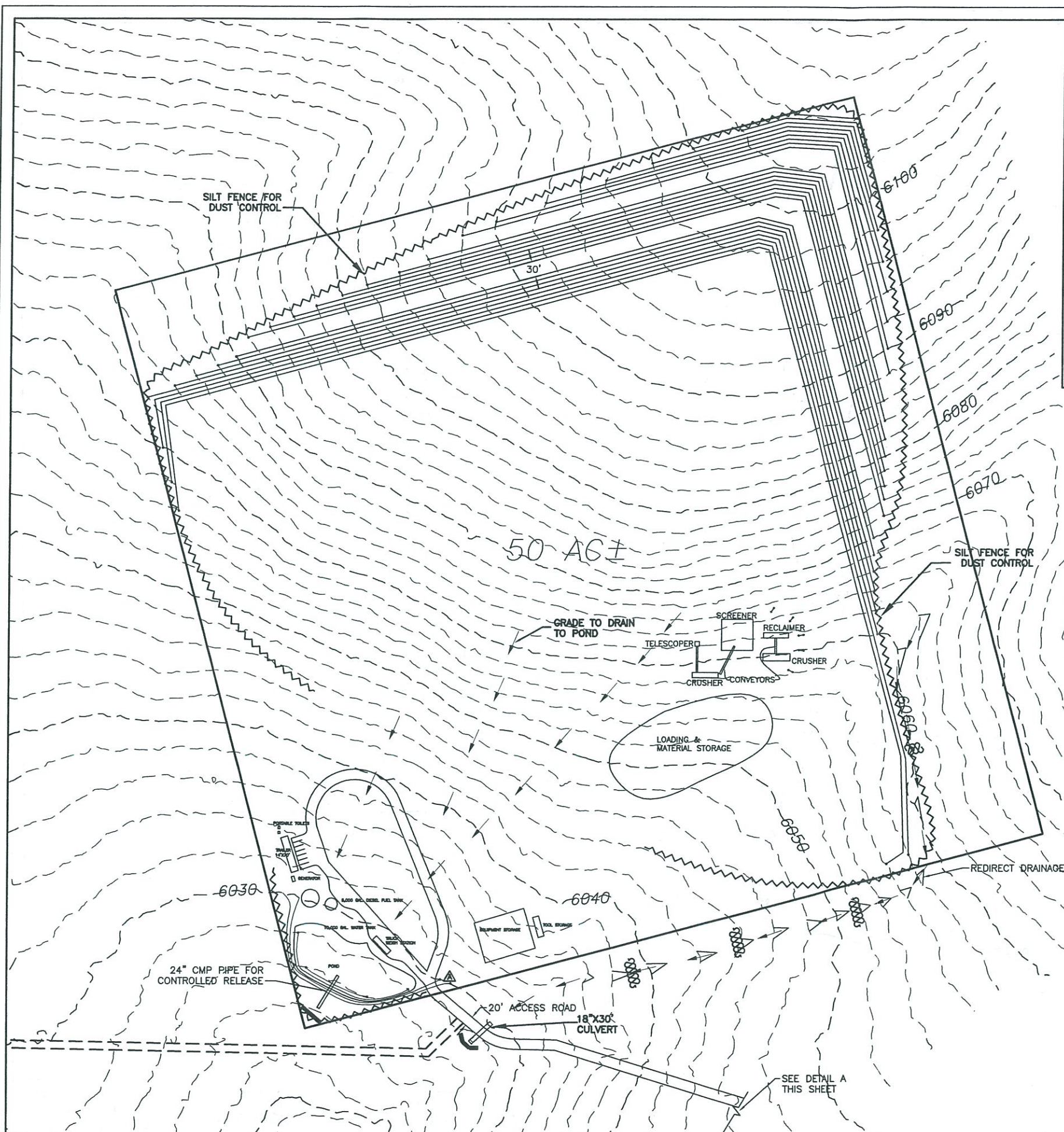
CHEMICAL	ACTUAL MIN. POUNDS/ACRE
23-13-0	75
PRAIRIE HAY	1000

SEEDING DATES
 RESEEDING WILL OCCUR ONLY DURING THE MONTHS OF JUNE, JULY & AUGUST FOR WARM SEASON SPECIES AND OCTOBER, NOVEMBER & DECEMBER FOR THE COOL SEASON SPECIES. SEEDED AREAS WILL BE PROTECTED FROM LIVESTOCK GRAZING UNTIL A VEGETATIVE COVER IS ESTABLISHED.

WATERING
 AFTER INSTALLATION OF SEED, THE REVEGETATING AREAS WILL BE WATERED FROM A TANKER TRUCK OR OTHER WATER SOURCE FOR A MINIMUM OF ONE TIME PER WEEK FOR TWO MONTHS.

ANY PROPOSED CHANGES OR MODIFICATIONS TO THIS PLAN SHALL BE DISCUSSED WITH THE ENGINEER PRIOR TO MAKING SUCH CHANGES OR MODIFICATIONS.

JAMES W. SIEBERT AND ASSOCIATES, INC. <small>815 MERCER STREET • SANTA FE NEW MEXICO 87505</small>	MATERIAL EXTRACTION PLAN	SCALE 1"=100'	DATE NOVEMBER 2013	
		DRAWN BY: HF	CHECKED BY: JWS	
	RECLAMATION PLAN PHASE II	REVISED 00/00/00	FILE NAME 20311	SHEET 1.3



GENERAL NOTES

- CONSTRUCTION MACHINERY AND EQUIPMENT SHALL BE MAINTAINED SUCH THAT NO FLUIDS (GASOLINE, OIL, ETC.) ARE PERMITTED TO LEAK ONTO THE GROUND. ACCIDENTAL SPILLS OF FLUIDS ARE TO BE CLEANED AND REMOVED FROM THE SITE IMMEDIATELY.
- SILT FENCES AND STRAW BALES SHALL BE PLACED AND/OR MOVED AS NEEDED TO PREVENT UNFILTERED STORM WATER FROM LEAVING THE CONSTRUCTION SITE.
- PORTABLE TOILETS: PLACE NO CLOSER THAN 100 FT FROM AN ARROYO, DRAINAGE WAY, OR DROP-INLET (IF POSSIBLE). STAKE THE UNIT TO THE GROUND TO PREVENT TIP OVER, OR SURROUND WITH A LOW BERM OR STRAW WATTLE TO PROTECT AGAINST A POSSIBLE SPILL.

SPECIAL CONSIDERATIONS

BE AWARE THAT SOIL STABILIZERS MAY NEED TO BE USED ON THIS SITE, IF CONSTRUCTION ACTIVITIES CEASE TEMPORARILY FOR A 14 DAY PERIOD. THIS APPLIES TO THE SITE AS A WHOLE OR A PORTION OF THE SITE PER THE REGION 8 CONSTRUCTION GENERAL PERMIT.

SWPPP-RECOMMENDATIONS

ANYONE DOING WORK WHICH WILL DISTURB SOILS ON THE PROPERTY, MUST COMPLY WITH THIS SWPPP - OR GAIN PERMISSION FROM THE OWNER/DEVELOPER TO WORK UNDER HIS PERMITTED SWPPP WITH AMENDMENTS MADE AND DOCUMENTED AS NECESSARY. IN ALL CASES, ALL ENTITIES WORKING WITHIN THE BOUNDARIES OF THIS SITE MUST COMPLY WITH THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

ALL PERMANENT STRUCTURAL CONTROLS (BMPs) SHOULD BE INSTALLED AT THE EARLIEST POSSIBLE TIMING AND BE PROPERLY MAINTAINED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

ALL TEMPORARY STORM WATER PREVENTIVE RUNOFF MEASURES SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL ALL PERMANENT DETENTION/RETENTION STRUCTURES HAVE BEEN INSTALLED AND THE NOTICE OF TERMINATION (N.O.T.) IS FILED.

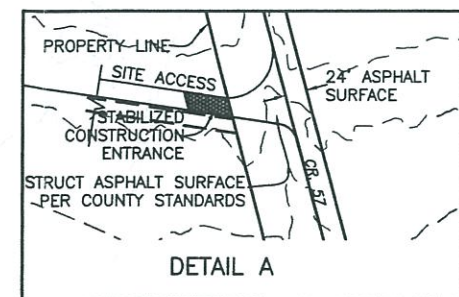
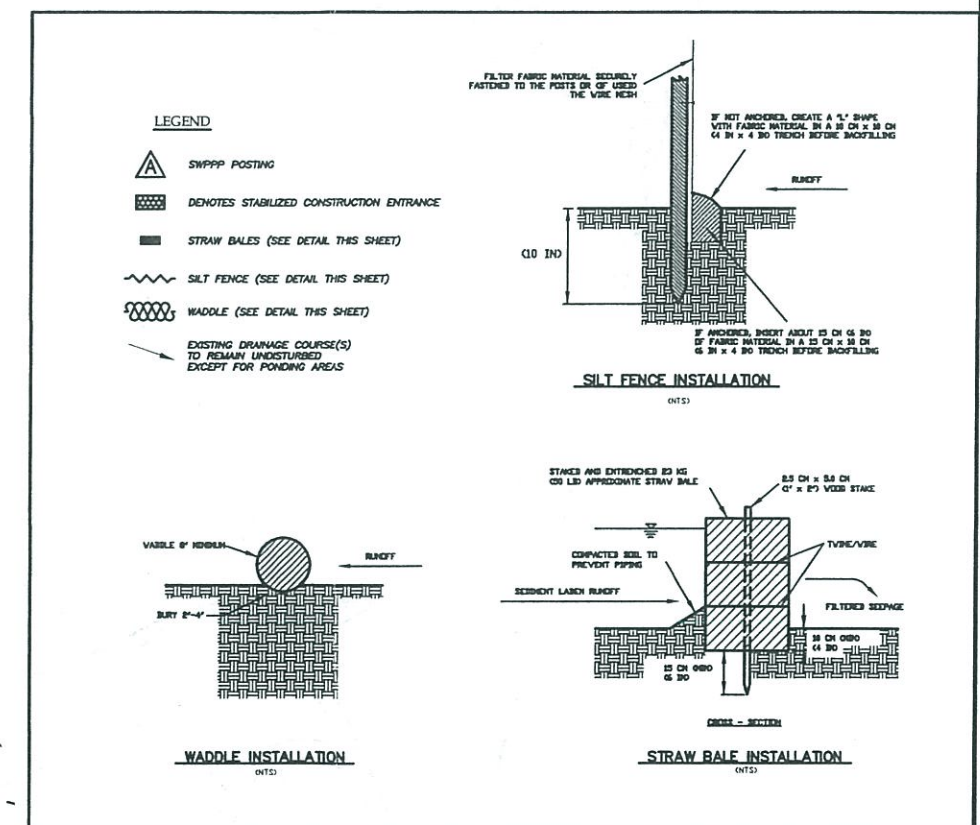
STABILIZED CONSTRUCTION ENTRANCE

PURPOSE: STABILIZING THE POINT OF INGRESS/EGRESS IS AN EFFECTIVE MEANS OF MINIMIZING THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

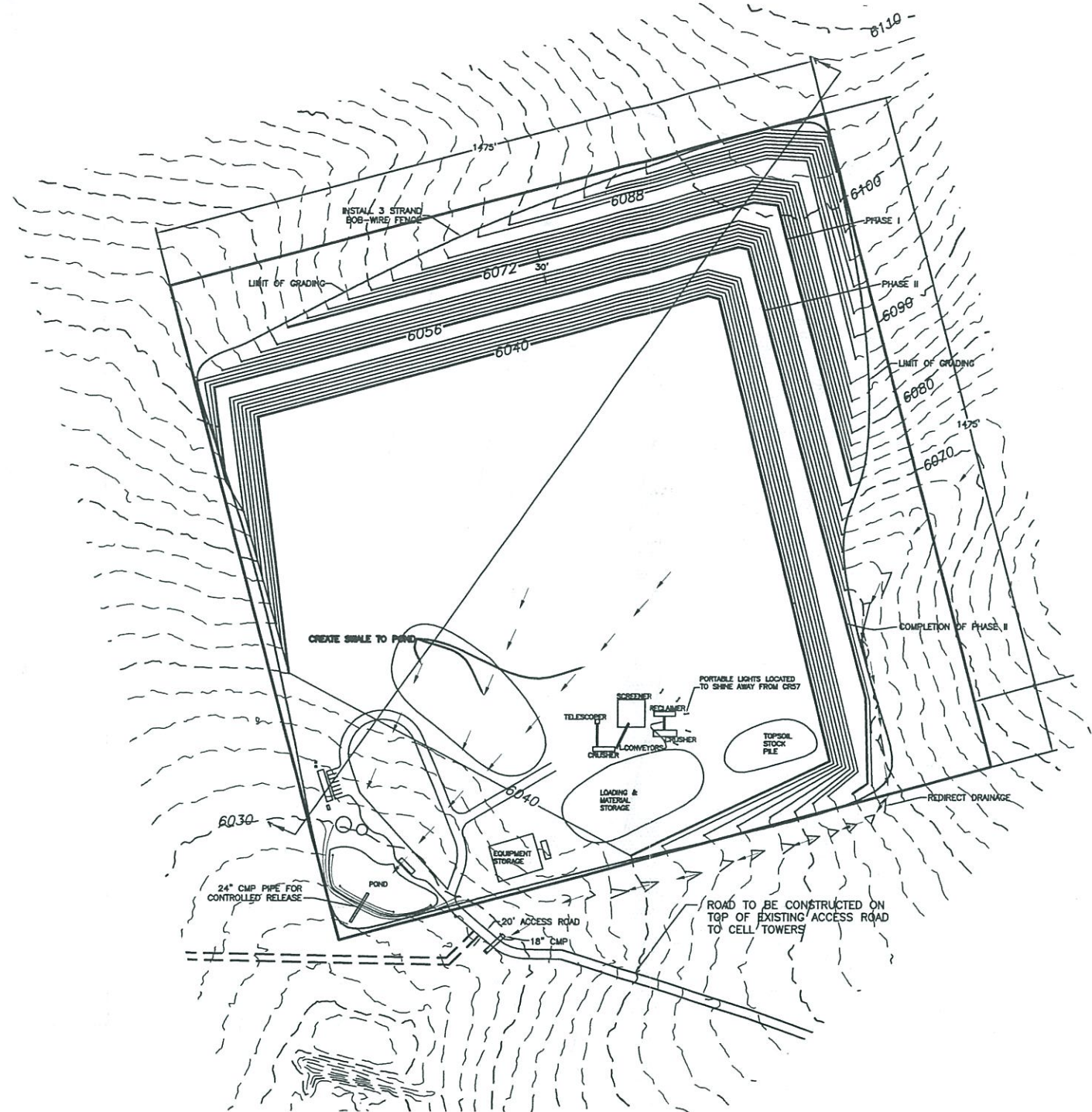
APPLICATION: ON SITE WHERE TRACKING ONTO PAVED ROADS FROM DIRT SUB-GRADE IS A POTENTIAL PROBLEM REVIEW SITE CONDITIONS FOR NEED AND DESIGN.

INSTALLATION: PROPERLY GRADE ENTRANCE TO PREVENT RUNOFF FROM CONSTRUCTION SITE. ROUTE RUNOFF FROM STABILIZED ENTRANCE THROUGH A SEDIMENT TRAP BEFORE DISCHARGE DESIGN TRACKING ENTRANCE TO SUPPORT HEAVIEST VEHICLE USING THE CONTROL SURFACE. SELECT 6 INCH THICK CRUSHED AGGREGATE OVER GEOTEXTILE FABRIC. PROVIDE HOSE FOR WASHING TIRES.

INSPECTION: INSPECT ROUTINELY FOR DAMAGE OR DETERIORATION. REPAIR AS NEEDED. ENFORCE EMPLOYEES, SUBCONTRACTOR AND SUPPLIERS UTILIZE THE ENTRANCE. SERVICE AND MAINTAIN TRAPPING DEVICES DAILY.

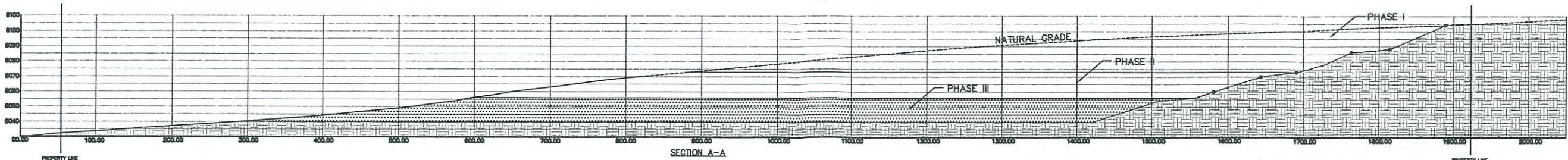


JAMES W. SIEBERT AND ASSOCIATES, INC. 815 MERCER STREET • SANTA FE, NEW MEXICO 87505	MATERIAL EXTRACTION PLAN		SCALE 1" = 100'	DATE NOVEMBER 2013	NORTH
	DRAWN BY: HP	CHECKED BY: JWS	REVISION 00/00/00	FILE NAME 20311	



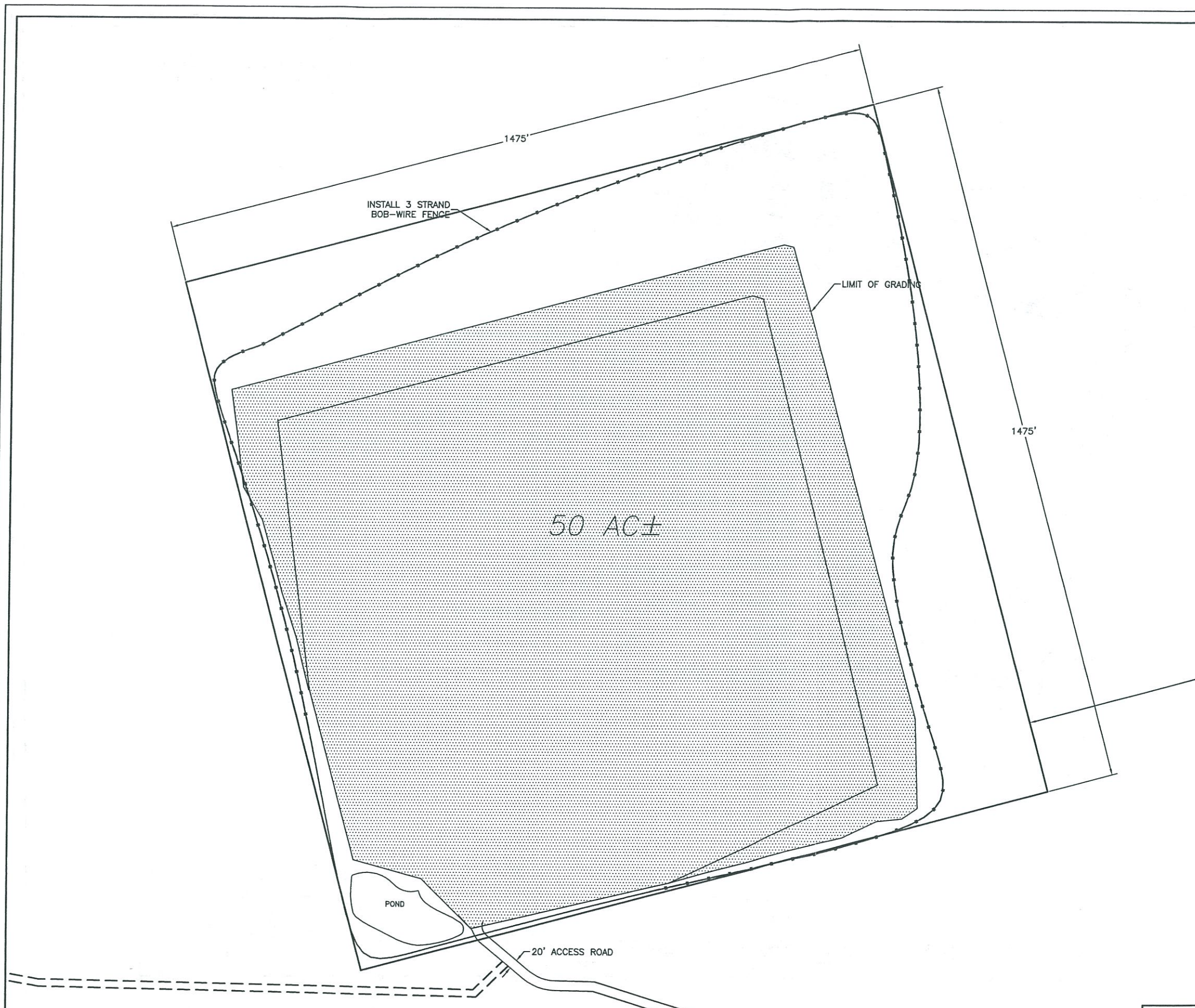
SITE DATA:
 PHASE III: 2028-2039
 ESTIMATE OF MATERIAL REMOVAL: 543,000 CUBIC YARDS
 TOP SOIL STOCK PILE: 6,000 CUBIC YARDS
 TOP SOIL STOCK PILE: 43 AC±

LEGEND:
 ← DENOTES DRAINAGE
 - - - EXISTING CONTOUR
 ——— NEW CONTOUR



SECTION A-A
 SCALE: 1:70 VERTICAL, 1:140 HORIZONTAL


JAMES W. SIEBERT AND ASSOCIATES, INC. 915 MERCER STREET • SANTA FE, NEW MEXICO 87505	MATERIAL EXTRACTION PLAN		SCALE 1"=150'	DATE NOVEMBER 2013	NORTH
	GRADING PLAN.		DRAWN BY: HF	CHECKED BY JWS	SHEET



SITE DATA:
 PHASE III: 2027-2034
 ESTIMATE OF MATERIAL REMOVAL: 543,000 CUBIC YARDS

LEGEND:
 ← DENOTES DRAINAGE

RECLAMATION PROCESS:
 PLACE STOCKPILED TOPSOIL ON GRADED AREAS & RESEED AS FOLLOWS:

 DENOTES AREA TO BE RESEED PER FOLLOWING SEEDING SPECIFICATIONS.

ALL DISTURBED AREAS EXCEPT BUILDING AREAS AND LANDSCAPE PLANTING BEDS (SEE NOTE 1 BELOW) SHALL BE TREATED WITH CLASS "D" SEEDING AND SHALL INCLUDE HAND RAKING OR CHAIN HARROWING TO COVER SEED TO A DEPTH OF 1/4" TO 1/2". BLANKETS SHALL BE APPLIED AS SOON AS POSSIBLE AFTER THE SEED AND FERTILIZER ARE APPLIED. ALL REVEGETATED AREAS SHALL BE BLANKETED THE SAME DAY THEY ARE SEEDED.

SOIL RETENTION BLANKET USED FOR CLASS "D" SEEDING SHALL BE PPS SUPER DUTY, AMERICAN EXCELSIOR HIGH VELOCITY, NORTH AMERICAN GREEN S-150 OR APPROVED EQUAL. ANCHORING SHALL BE BY THE USE OF 8"x1"x8" "U" SHAPED STEEL STAPLES OF .091 MINIMUM DIAMETER AND SPACED AS RECOMMENDED BY THE MANUFACTURER. BLANKETS SHALL BE LAID FROM TOP TO BOTTOM ON THE SLOPE WITH SEAMS RUNNING VERTICALLY AND LAPPED AS PER MANUFACTURER'S RECOMMENDATION. BLANKETS SHALL BE INSTALLED ON ALL CUT SLOPES.

PRIOR TO PERFORMING SEEDING OPERATIONS ALL WEED SPECIES WHICH MAY HAVE GROWN IN AREAS TO BE SEEDED AND WILL INTERFERE WITH THE SEED MULCH MAKING CONTACT WITH THE SOIL SHALL BE REMOVED.

SEED MIX
 (CERTIFIED SEED OF NAMED VARIETIES ARE REQUIRED IF AVAILABLE)

SPECIES	ORIGIN	LBS. PURE LIVE SEED PER ACRE
BOUTELOUA GRACILIS (BLUE GRAMA)	HACHITA OR LOVINGTON	2.0
BOUTELOUA CURTIPENDULA (SIDE OATS GRAMA)	VAUGHN OR NINER	4.0
ANDROPOGON SCOPARIUM (LITTLE BLUESTEM)	PASTURA	1.0
HILARIA JAMESII (GALLETA)	VIVA	4.0
SPOROBOLUS AIROIDES (ALKALI SACATON)	NEW MEXICO REGION	0.5
ATRIPLEX CANESCENS (FOURWING SALT BUSH)	NEW MEXICO REGION	1.0
FALLUGIA PARADOXA (APACHE PLUME)	NEW MEXICO REGION	1.0


FERTILIZER REQUIREMENTS

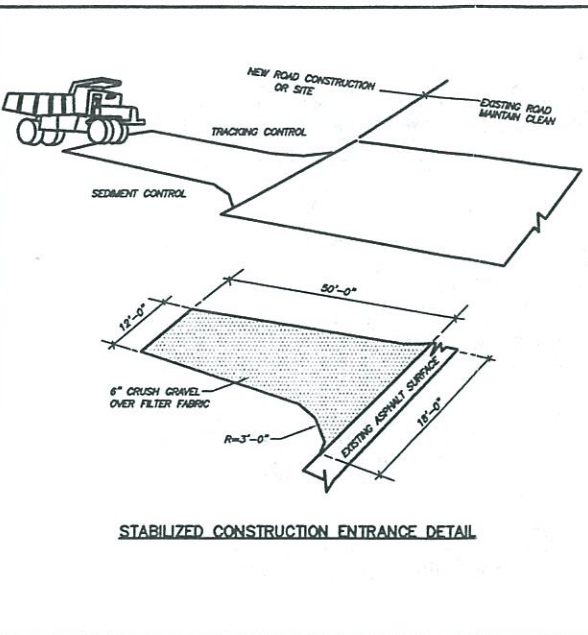
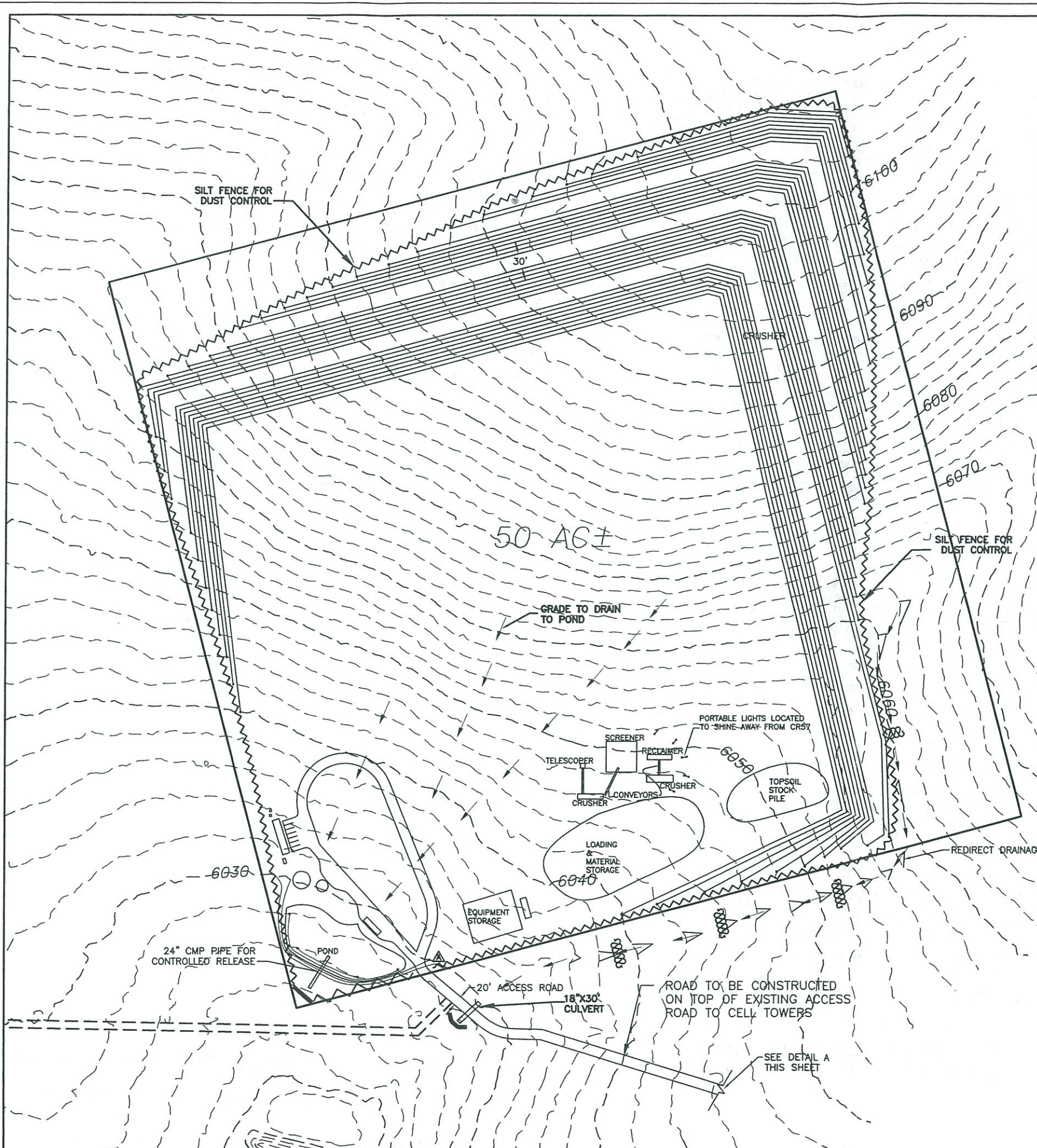
CHEMICAL	ACTUAL MIN. POUNDS/ACRE
23-13-0 PRAIRIE HAY	75 1000

SEEDING DATES
 RESEEDING WILL OCCUR ONLY DURING THE MONTHS OF JUNE, JULY & AUGUST FOR WARM SEASON SPECIES AND OCTOBER, NOVEMBER & DECEMBER FOR THE COOL SEASON SPECIES. SEEDED AREAS WILL BE PROTECTED FROM LIVESTOCK GRAZING UNTIL A VEGETATIVE COVER IS ESTABLISHED.

WATERING
 AFTER INSTALLATION OF SEED, THE REVEGETATING AREAS WILL BE WATERED FROM A TANKER TRUCK OR OTHER WATER SOURCE FOR A MINIMUM OF ONE TIME PER WEEK FOR TWO MONTHS.

ANY PROPOSED CHANGES OR MODIFICATIONS TO THIS PLAN SHALL BE DISCUSSED WITH THE ENGINEER PRIOR TO MAKING SUCH CHANGES OR MODIFICATIONS.

JAMES W. SIEBERT AND ASSOCIATES, INC. <small>915 MERCER STREET • SANTA FE NEW MEXICO 87505</small>	MINERAL EXTRACTION PLAN	SCALE 1" = 100'	DATE NOVEMBER 2013	
	RECLAMATION	DRAWN BY: HP	CHECKED BY: JWS	
	REVISIONS 00/00/00	FILE NAME	SHEET	



GENERAL NOTES

- CONSTRUCTION MACHINERY AND EQUIPMENT SHALL BE MAINTAINED SUCH THAT NO FLUIDS (GASOLINE, OIL, ETC.) ARE PERMITTED TO LEAK ONTO THE GROUND. ACCIDENTAL SPILLS OF FLUIDS ARE TO BE CLEANED AND REMOVED FROM THE SITE IMMEDIATELY.
- SILT FENCES AND STRAW BALES SHALL BE PLACED AND/OR MOVED AS NEEDED TO PREVENT UNFILTERED STORM WATER FROM LEAVING THE CONSTRUCTION SITE.
- PORTABLE TOILETS: PLACE NO CLOSER THAN 100 FT FROM AN ARROYO, DRAINAGE WAY, OR DROP-INLET (IF POSSIBLE). STAKE THE UNIT TO THE GROUND TO PREVENT TIP OVER, OR SURROUND WITH A LOW BERM OR STRAW BATTLE TO PROTECT AGAINST A POSSIBLE SPILL.

SPECIAL CONSIDERATIONS

BE AWARE THAT SOIL STABILIZERS MAY NEED TO BE USED ON THIS SITE, IF CONSTRUCTION ACTIVITIES CEASE TEMPORARILY FOR A 14 DAY PERIOD. THIS APPLIES TO THE SITE AS A WHOLE OR A PORTION OF THE SITE PER THE REGION 8 CONSTRUCTION GENERAL PERMIT.

SWPPP-RECOMMENDATIONS

ANYONE DOING WORK WHICH WILL DISTURB SOILS ON THE PROPERTY, MUST COMPLY WITH THIS SWPPP - OR GAIN PERMISSION FROM THE OWNER/DEVELOPER TO WORK UNDER HIS PERMITTED SWPPP WITH AMENDMENTS MADE AND DOCUMENTED AS NECESSARY. IN ALL CASES, ALL ENTITIES WORKING WITHIN THE BOUNDARIES OF THIS SITE MUST COMPLY WITH THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

ALL PERMANENT STRUCTURAL CONTROLS (BMPs) SHOULD BE INSTALLED AT THE EARLIEST POSSIBLE TIMING AND BE PROPERLY MAINTAINED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

ALL TEMPORARY STORM WATER PREVENTIVE RUNOFF MEASURES SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL ALL PERMANENT DETENTION/RETENTION STRUCTURES HAVE BEEN INSTALLED AND THE NOTICE OF TERMINATION (N.O.T.) IS FILED.

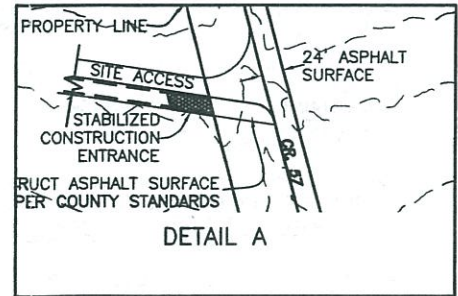
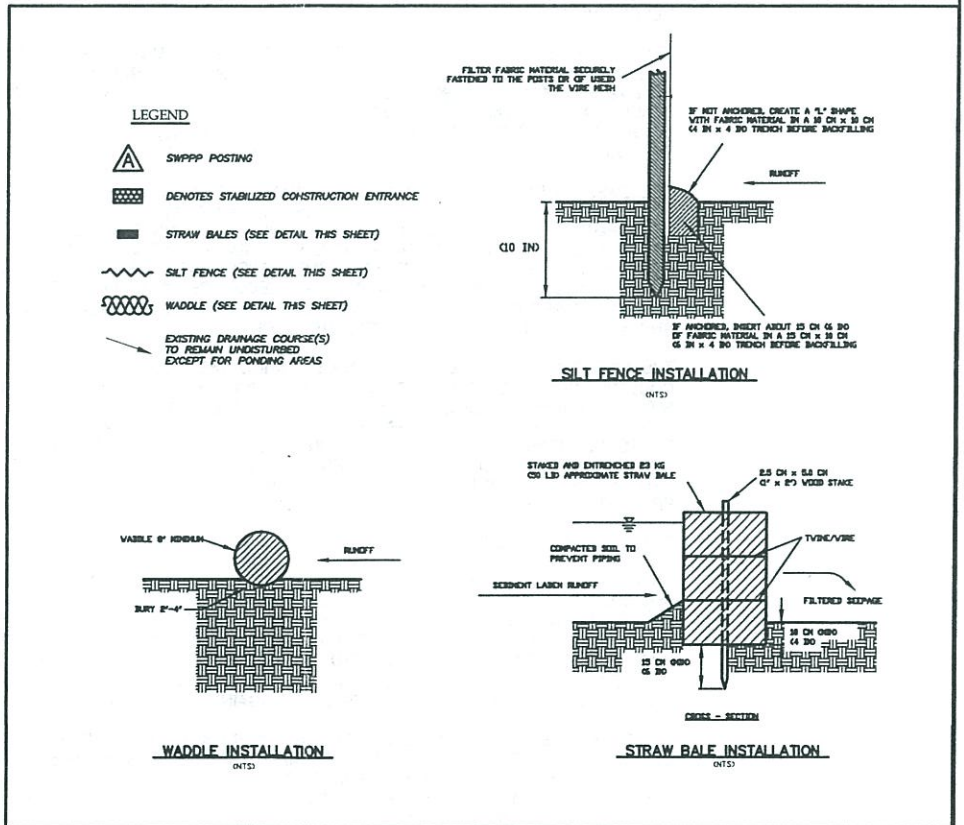
STABILIZED CONSTRUCTION ENTRANCE

PURPOSE: STABILIZING THE POINT OF INGRESS/EGRESS IS AN EFFECTIVE MEANS OF MINIMIZING THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

APPLICATION: ON SITE WHERE TRACKING ONTO PAVED ROADS FROM DIRT SUB-GRADE IS A POTENTIAL PROBLEM REVIEW SITE CONDITIONS FOR NEED AND DESIGN.

INSTALLATION: PROPERLY GRADE ENTRANCE TO PREVENT RUNOFF FROM CONSTRUCTION SITE. ROUTE RUNOFF FROM STABILIZED ENTRANCE THROUGH A SEDIMENT TRAP BEFORE DISCHARGE. DESIGN TRACKING ENTRANCE TO SUPPORT HEAVIEST VEHICLE USING THE CONTROL SURFACE. SELECT 8 INCH THICK CRUSHED AGGREGATE OVER GEOTEXTILE FABRIC. PROVIDE HOSE FOR WASHING TIRES.

INSPECTION: INSPECT ROUTINELY FOR DAMAGE OR DETERIORATION, REPAIR AS NEEDED. ENFORCE EMPLOYEES, SUBCONTRACTOR AND SUPPLIERS UTILIZE THE ENTRANCE. SERVICE AND MAINTAIN TRAPPING DEVICES DAILY.



JAMES W. SIEBERT AND ASSOCIATES, INC. 815 MERCER STREET • SANTA FE, NEW MEXICO 87505	MATERIAL EXTRACTION PLAN STORM WATER POLLUTION PREVENTION	SCALE 1" = 100'	DATE NOVEMBER 2013	NORTH
		DRAWN BY HJP	CHECKED BY JWS	
REVISED 00/00/00	FILE NAME 20311			

CONSTRUCTION ACTIVITIES

STORM WATER FROM CONSTRUCTION SITES CAN BE MAJOR CAUSE OF WATER POLLUTION. STORM WATER INCLUDES RAINFALL, MELTING SNOW, SURFACE RUNOFF AND DRAINAGE, AND RAINFALL OR SNOWMELT FROM AN ADJACENT SITE RUNNING ONTO OR THROUGH A CONSTRUCTION SITE. POLLUTION IN STORM WATER CAN INCLUDE SOIL, SAND, NATURAL DEBRIS (LEAVE, GRASS, ETC.), CONSTRUCTION DEBRIS (WOODCHIPS, INSULATION SCRAPS, CEMENT), AND CHEMICALS (FUEL, OIL, LUBRICANTS, PAINT, TAR, ETC.).

WHEN SOIL, VEGETATIVE COVER, TREE CANOPIES, ETC. ARE DISTURBED ON A CONSTRUCTION SITE, SOIL IS LOOSENEED, MAKING IT EASIER FOR STORM WATER TO CARRY THE SOIL OFF THE SITE, ALONG WITH ANY DEBRIS OR CHEMICALS ON THE SOIL. ADDITIONALLY, ANY NEW OR EXISTING PAVED SURFACES ON WHICH DIRT AND DEBRIS ARE TRACKED, OR ON WHICH CONSTRUCTION DEBRIS OR CHEMICALS ARE STORED OR SPILLED, MAKE IT EASIER FOR STORM WATER TO COLLECT AND CARRY THOSE MATERIALS OFF THE SITE.

ONCE STORM WATER LEAVES A SITE, IT CAN RUN DIRECTLY INTO A RIVER OR LAKE, OR CAN BE CARRIED TO A RIVER OR LAKE THROUGH AN ARROYO, DITCH, STORM SEWER, OR OTHER CONVEYANCE. IF THE STORM WATER IS POLLUTED, IT WILL CARRY THOSE POLLUTANTS INTO THE RECEIVING WATERS AND DEGRADE THE QUALITY OF THAT WATER.

THE THREE MAIN GOALS OF THE NPDES PERMITTING PROGRAM FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES ARE TO REDUCE EROSION, MINIMIZE SEDIMENTATION, AND CONTROL THE DISCHARGE OF NON-STORM WATER POLLUTANTS.

SWPPP

DESCRIPTION

THE SWPPP IS A DOCUMENT THAT DEFINES THE CONSTRUCTION ACTIVITIES AND BMPs/CONTROLS TO BE EMPLOYED TO CONTROL THE RELEASE OF POLLUTION FROM THE CONSTRUCTION SITE. THE SWPPP CONSISTS OF TWO COMPONENTS: A NARRATIVE DESCRIPTION OF THE PROJECT AND A DRAWING OF THE SITE SHOWING THE LIMITS OF SOIL DISTURBANCE, STORM WATER DRAINAGES, AND LOCATIONS AND TYPES OF BMPs/CONTROLS.

THE SWPPP IDENTIFIES THE TECHNIQUES THAT THE OPERATOR WILL USE TO REDUCE SITE EROSION AND SEDIMENT LOSS, AND MANAGE CONSTRUCTION-RELATED WASTES. IT IDENTIFIES THE MAINTENANCE PROCEDURES THAT THE OPERATOR WILL PERFORM TO PRESERVE THE EFFICIENCY OF THE TECHNIQUE USED. THE SWPPP MUST CLEARLY DESCRIBE THE CONTROL MEASURES, THE TIMING AND SEQUENCE OF IMPLEMENTATION AND WHICH PERMITTEE (CONTRACTOR) IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF THE CONTROL MEASURES.

THE SWPPP IS VERY LIKELY TO CHANGE DURING THE COURSE OF CONSTRUCTION DUE TO VARIATIONS IN CONSTRUCTION TECHNIQUES AND/OR SITE CONDITIONS. IN ORDER TO MAINTAIN THE EFFECTIVENESS OF THE ORIGINAL SWPPP DESIGN, THESE MODIFICATIONS SHOULD BE MADE BY PERSONNEL EXPERIENCED IN THE DESIGN OF EROSION AND SEDIMENT CONTROL SYSTEMS. THE EPA REQUIRES THAT THE SWPPP DOCUMENTS BE UPDATED WITHIN SEVEN DAYS OF ANY CHANGE IN THE POLLUTION PREVENTION SYSTEMS EMPLOYED ON THE SITE.

RETENTION OF RECORDS

AS PART OF THE GENERAL PERMIT, THE SWPPP AND SUPPORTING DOCUMENTATION MUST BE RETAINED FOR A PERIOD OF THREE YEARS AFTER THE COMPLETION OF THE PROJECT. THIS IS TO PROTECT THE OWNER/OPERATOR OF THE SITE FROM FUTURE CLAIMS CONCERNING WATER QUALITY AND MEASURES IMPLEMENTED AT THE SITE. IT IS RECOMMENDED THAT EACH OF THE OWNER/OPERATORS MAINTAINS COPY OF THE SWPPP FOR THE THREE-YEAR PERIOD TO PROTECT AGAINST POTENTIAL LAWSUITS.

THE PERMITTEE MUST ADHERE TO GENERAL COMPLIANCE REQUIREMENTS ESTABLISHED IN THE NPDES GENERAL PERMIT. THE PROGRAM IS INTENDED TO BE SELF-REGULATING AND REQUIRES THE PERMITTEE TO PREPARE AND IMPLEMENT THE PROJECT SWPPP. DURING THE CONSTRUCTION PHASE, THE PERMITTEE IS RESPONSIBLE FOR:

- MAINTAINING A COPY OF THE SWPPP ONSITE
- INSPECTING THE SITE TO ENSURE THAT SWPPP IMPROVEMENTS ARE IN PLACE AND FUNCTIONAL
- REVISING THE SWPPP AS SITE CONDITIONS AND CONSTRUCTION ACTIVITIES CHANGE
- MAINTAINING TEMPORARY EROSION AND SEDIMENT CONTROLS AND HOUSEKEEPING MEASURES
- KEEPING RECORDS

EACH CONSTRUCTION PROJECT WILL VARY IN SCOPE AND RESPONSIBLE PARTIES. FOR THE PURPOSE OF POLLUTION CONTROLS FOR STORM WATER DISCHARGES, THE CONSTRUCTION PROJECT SITE AND CONSTRUCTION ACTIVITIES TO BE COVERED BY THE SWPPP INCLUDE:

- AREAS CLEARED OR DISTURBED FOR INSTALLATION OF IMPROVEMENTS
- AREAS CLEARED FOR CONSTRUCTION ACTIVITIES, SUCH AS TEMPORARY CONSTRUCTION YARDS, MATERIAL STORAGE, AND PREPARATION AREAS
- ONSITE AND OFFSITE AREAS EXCAVATED FOR FILL OR BORROW MATERIAL
- DISPOSAL AREAS, WHEN NOT WITHIN A CONTROLLED LANDFILL
- TRANSPORTATION OF LOOSE FILL, MATERIALS, OR DEBRIS TO AND FROM THE SITE

(A) CERTIFY THE SWPPP

CONSTRUCTION ACTIVITIES OFTEN HAVE A NUMBER OF DIFFERENT SHORT-TERM CONTRACTORS AND SUBCONTRACTORS COMING ONSITE DURING EACH PHASE OF THE PROJECT DEVELOPMENT. THE EPA GENERAL PERMIT REQUIRES THAT THE CONTRACTORS AND SUBCONTRACTORS RESPONSIBLE FOR IMPLEMENTING MEASURES IN THE SWPPP BE LISTED IN THE PLAN, AND THAT THEY SIGN A CERTIFICATION STATEMENT THAT THEY UNDERSTAND THE PERMITEE REQUIREMENTS. THIS REQUIREMENT HOLDS EACH CONTRACTOR/SUBCONTRACTOR RESPONSIBLE FOR CERTAIN PERMIT CONDITIONS.

THE SWPPP SHOULD IDENTIFY THE AUTHORIZED REPRESENTATIVE. THE AUTHORIZED REPRESENTATIVE SHOULD BE SOMEONE AT OR NEAR THE TOP OF THE MANAGEMENT CHAIN, SUCH AS THE PRESIDENT, VICE PRESIDENT, OR A GENERAL PARTNER, WHO HAS BEEN DELEGATED THAT AUTHORITY TO SIGN AND CERTIFY THIS TYPE OF DOCUMENT. IN SIGNING THE PLAN, THE AUTHORIZED REPRESENTATIVE CERTIFIES THAT THE INFORMATION IS TRUE, AND ASSUMES LIABILITY FOR THE PLAN. PLEASE NOTE THAT SECTION 309 OF THE CWA PROVIDES FOR SIGNIFICANT PENALTIES (SEE APPENDIX C4) WHERE INFORMATION IS FALSE OR WHERE THE PERMITTEE VIOLATES, EITHER KNOWINGLY OR NEGLIGENTLY, PERMIT REQUIREMENTS.

(B) SUBMIT THE NOI

THE GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES REQUIRES THAT AN NOI BE SUBMITTED AT LEAST 48 HOURS BEFORE CONSTRUCTION ACTIVITIES BEGIN. THE NOI IS ESSENTIALLY AN APPLICATION AND CONTAINS IMPORTANT INFORMATION ABOUT THE SITE, INCLUDING SITE LOCATION, OWNER INFORMATION, OPERATOR (GENERAL CONTRACTOR) INFORMATION, RECEIVING WATER(S), EXISTING NPDES PERMIT NUMBER (IF ANY), EXISTING QUANTITATIVE DATA, AND A BRIEF DESCRIPTION OF THE PROJECT.

EPA HAS DEVELOPED A ONE-PAGE NOI FORM TO BE USED FOR CONSTRUCTION ACTIVITIES. (SEE FIGURE 1-2 AND APPENDIX B1.) THIS FORM INDICATES ALL THE INFORMATION REQUIRED TO BE PROVIDED AND MUST BE USED IN ORDER FOR THE NOI TO BE PROCESSED CORRECTLY. NOIs FOR THE EPA GENERAL PERMIT WILL BE SUBMITTED DIRECTLY TO EPA'S CENTRAL PROCESSING CENTER AT THE FOLLOWING ADDRESS:

STORM WATER NOTICE OF INTENT (4203)
U.S. ENVIRONMENTAL PROTECTION AGENCY
401 M. STREET, SW
WASHINGTON, D.C. 20460

THE PARTY OR PARTIES WHO HAVE DAY-TO-DAY RESPONSIBILITIES FOR SITE OPERATIONS, AND THE PARTY OR PARTIES WHO HAVE CONTROL OVER THE DESIGNS AND SPECIFICATIONS NECESSARY TO ENSURE COMPLIANCE WITH SWPPP REQUIREMENTS AND PERMIT CONDITIONS, MUST SUBMIT AN NOI. IT IS ANTICIPATED THAT THERE WILL BE PROJECTS WHERE MORE THAN ONE ENTITY (E.G., THE OWNER OR GENERAL CONTRACTOR) WILL EACH NEED TO SUBMIT AN NOI.

I.D.2.G CONSTRUCTION/IMPLEMENTATION

ONCE AN SWPPP HAS BEEN PREPARED AND AN NOI HAS BEEN FILED, PROJECT CONSTRUCTION MAY BEGIN. HOWEVER, NOT ALL REQUIREMENTS OF THE PERMIT HAVE BEEN MET. THE CONSTRUCTION/IMPLEMENTATIONS PHASE INCLUDES THE FOLLOWING:

(A) IMPLEMENT CONTROLS

THE FIRST ACTION THAT SHOULD BE TAKEN IS TO CONSTRUCT OR PERFORM THE CONTROLS THAT WERE SELECTED FOR THE SWPPP. THE CONTROLS SHOULD BE CONSTRUCTED OR APPLIED IN ACCORDANCE WITH STATE OR LOCAL SPECIFICATIONS. IF THERE ARE NO STATE OR LOCAL SPECIFICATIONS FOR CONTROL MEASURES, THEN THE CONTROLS SHOULD BE CONSTRUCTED IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES. THE CONTROLS SHOULD BE CONSTRUCTED AND THE STABILIZATION MEASURES SHOULD BE APPLIED IN THE ORDER INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES.

TO ENSURE THAT CONTROLS ARE ADEQUATELY IMPLEMENTED, IT IS IMPORTANT THAT THE WORK CREWS WHO INSTALL THE MEASURES ARE EXPERIENCED AND/OR ADEQUATELY TRAINED. IMPROPERLY INSTALLED CONTROLS CAN HAVE LITTLE OR NO EFFECT AND MAY ACTUALLY INCREASE THE POLLUTION OF STORM WATER. IT IS ALSO IMPORTANT THAT ALL OTHER WORKERS ON THE CONSTRUCTION SITE BE MADE AWARE OF THE CONTROLS SO THAT THEY DO NOT INADVERTENTLY DISTURB OR REMOVE THEM.

(B) IMPLEMENT AND DOCUMENT TRAINING PROGRAMS FOR ONSITE INSPECTORS

IT IS THE RESPONSIBILITY OF THE OPERATOR TO PROVIDE TRAINED INSPECTORS AND TRAINING OF NEW INSPECTORS.

(C) INSPECT AND MAINTAIN CONTROLS

AS DISCUSSED PREVIOUSLY, INSPECTION AND MAINTENANCE OF THE PROTECTIVE MEASURES THAT ARE PART OF THIS PLAN ARE AS IMPORTANT TO POLLUTION PREVENTION AS PROPER PLANNING, DESIGN/SELECTION, AND INSTALLATION.

INSPECTION - THE EPA GENERAL PERMIT REQUIRES INSPECTION EVERY 14 DAYS OR WITHIN 24 HOURS OF A STORM OF 0.5 INCH OR GREATER. ALL DISTURBED AREAS OF THE SITE, AREAS OF MATERIAL STORAGE, AND ALL OF THE EROSION AND SEDIMENT CONTROLS THAT WERE IDENTIFIED AS PART OF THE PLAN, SHOULD BE INSPECTED. CONTROLS MUST BE IN GOOD OPERATING CONDITION UNTIL THE AREAS THEY PROTECT HAVE BEEN COMPLETELY STABILIZED AND THE CONSTRUCTION ACTIVITY IS COMPLETE.

MAINTENANCE/REPAIRS - THE INSPECTOR SHOULD NOTE ANY DAMAGE OR DEFICIENCIES IN THE CONTROL MEASURES ON THE INSPECTION REPORT FORMS PROVIDED FOR THIS PURPOSE (FIGURE 1-5 AND 1-6 AND APPENDIX B1). THESE REPORTS DOCUMENT THE INSPECTION OF THE POLLUTION PREVENTION MEASURES. THESE SAME FORMS CAN BE USED TO REQUEST MAINTENANCE AND REPAIR AND TO PROVE THAT INSPECTION AND MAINTENANCE WERE PERFORMED. THE OPERATOR SHOULD CORRECT DAMAGE OR DEFICIENCIES AS SOON AS PRACTICABLE AFTER THE INSPECTION, AND ANY CHANGES THAT MAY BE REQUIRED TO CORRECT DEFICIENCIES IN THE SWPPP SHOULD BE MADE AS SOON AS PRACTICABLE AFTER THE INSPECTION.


I.B.2.D. SPILL NOTIFICATION

THE GENERAL PERMIT ALLOWS FOR STORM WATER DISCHARGE FROM CONSTRUCTION SITES ONLY. DISCHARGES OF OTHER SUBSTANCES FROM CONSTRUCTION ACTIVITIES OR FROM OPERATIONS ON A SITE DURING CONSTRUCTION ARE NOT PERMITTED. (SEE APPENDIX C2, PROHIBITION OF NON-STORM WATER DISCHARGES, FEDERAL REGISTER VOLUME 63, NO. 128, JULY 6, 1998, NOTICES, PP. 36500-36501.) IN THE EVENT OF A SPILL OF A HAZARDOUS SUBSTANCE, THE OPERATOR IS REQUIRED TO NOTIFY THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802, THE NEW MEXICO ENVIRONMENTAL DEPARTMENT (NMED) AT (505) 827-9392, AND THE LOCAL FIRE DEPARTMENT TO PROPERLY REPORT THE SPILL. A WRITTEN DESCRIPTION OF THE RELEASE MUST BE PROVIDED TO THE EPA REGIONAL OFFICE, WHICH INCLUDES THE DATE AND CIRCUMSTANCES OF THE RELEASE, MITIGATION MEASURES, AND STEPS TAKEN TO PREVENT ANOTHER RELEASE. IN ADDITION, THE SWPPP MUST BE REVISED WITHIN 14 CALENDAR DAYS AFTER THE RELEASE TO REFLECT THE RELEASE, STATING THE TYPE AND QUANTITY OF MATERIAL RELEASED, THE DATE OF THE RELEASE, THE CIRCUMSTANCES OF THE RELEASE, AND ACTIONS TO BE TAKEN TO PREVENT FURTHER SPILLS.

IF FUELS, OILS, OR OTHER SUBSTANCES ARE TO BE PRESENT ONSITE, IT IS IMPERATIVE THAT CLOSED CONTAINERS BE PROVIDED ALONG WITH SECONDARY CONTAINMENT AREAS FOR LARGE-QUANTITY SPILLS. HAZARDOUS CHEMICALS INCLUDE FERTILIZERS, PAINTS, OILS, GREASE, PESTICIDES, AND FUELS, ALONG WITH OTHER CONSTRUCTION CHEMICALS. WHILE MUCH OF THE MANUAL FOCUSES ON THE SEDIMENT- AND EROSION-CONTROL ASPECTS OF THE SWPPP, THE POTENTIAL FOR DAMAGING POLLUTION FROM CHEMICALS IS GREAT. PROVISIONS MUST BE MADE TO ADDRESS POTENTIAL POLLUTION THROUGH THE USE OF THE BMPs, AS WELL AS COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND OTHER REGULATORY REQUIREMENTS.

STABILIZATION REQUIREMENTS FOR INACTIVE AREAS

DURING CONSTRUCTION, SOME AREAS MAY BE INACTIVE FOR LONG PERIODS OF TIME. THE GENERAL PERMIT REQUIRES AREAS INACTIVE FOR MORE THAN 14 DAYS TO BE TEMPORARILY STABILIZED, UNLESS IT IS ANTICIPATED THAT CONSTRUCTION WILL RESUME WITHIN 21 DAYS.

JAMES W. SIEBERT AND ASSOCIATES, INC. 915 MERCER STREET • SANTA FE NEW MEXICO 87505	MATERIAL EXTRACTION PLAN		SCALE 1"=100'	DATE NOVEMBER 2013	NORTH 
	SWPPP NOTES		DRAWN BY: JHP	CHECKED BY: JWS	SHEET 18
REVISED 00/00/00		FILE NAME 20311 11-13		WORKED ON	