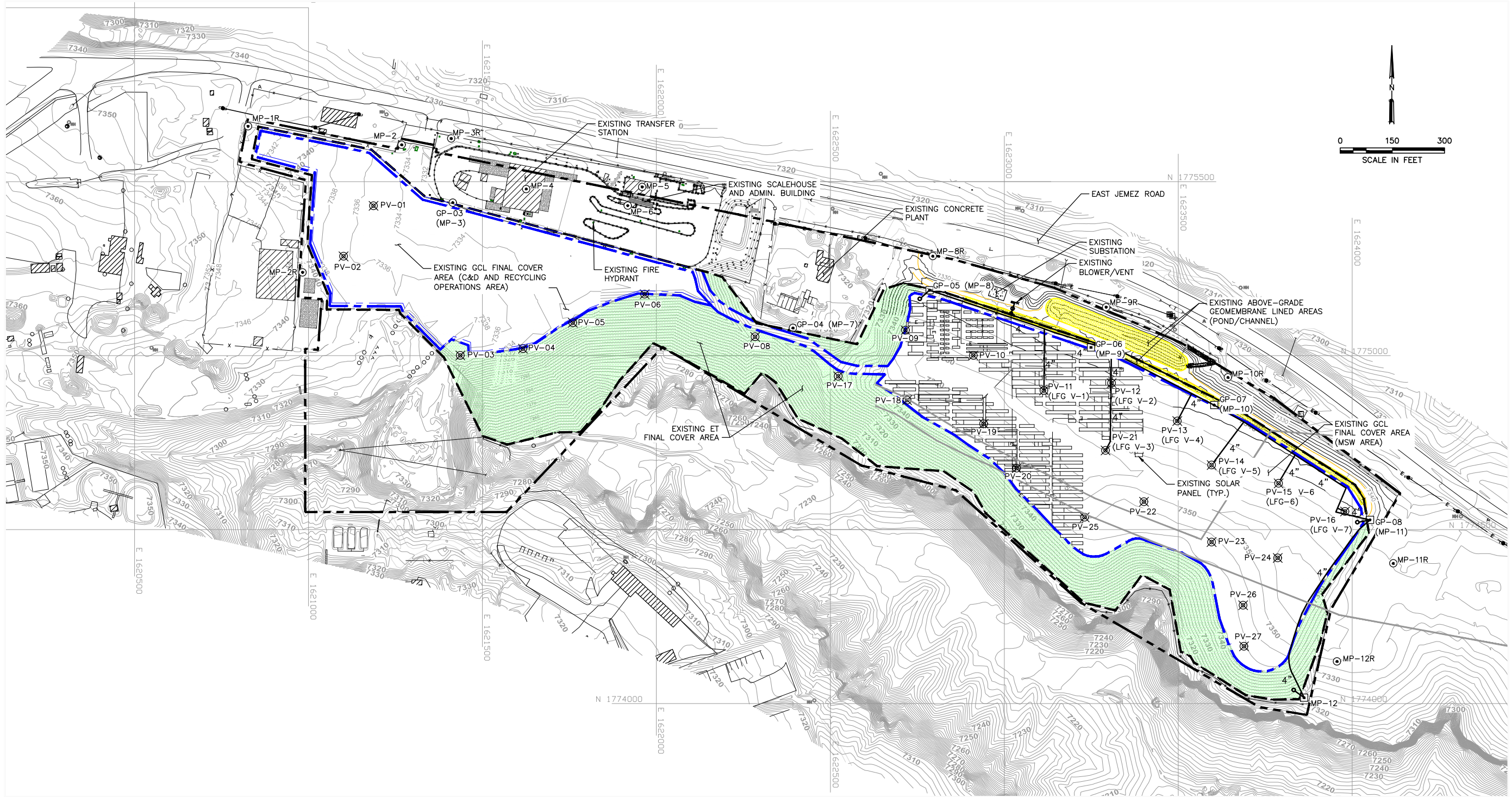


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LEGEND	
	EXISTING CONTOURS (SEE NOTE 1)
	PERMIT BOUNDARY
	CURRENT LIMITS OF WASTE (APPROXIMATE)
	STATE PLANE COORDINATE SYSTEM
	EXISTING ET FINAL COVER AREA (APPROXIMATE)
	EXISTING GCL FINAL COVER AREA (APPROXIMATE)
	EXISTING ABOVE-GRADE GEOMEMBRANE LINED AREA (APPROXIMATE)
	EXISTING ELECTRICAL/POWER POLES
	EXISTING DRIP LEG
	EXISTING PASSIVE GAS VENT
	EXISTING MONITORING EXTRACTION PROBE (WITHIN WASTE)
	EXISTING MONITORING PROBE (OUTSIDE OF WASTE)
	EXISTING ABOVE-GRADE PVC SCH 40 LFG COLLECTION PIPING (APPROXIMATE, SEE NOTE 3)
	ABANDONED IN-PLACE PIPING (APPROXIMATE LOCATION)

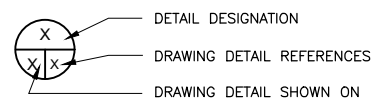
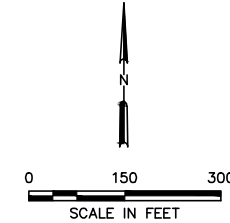
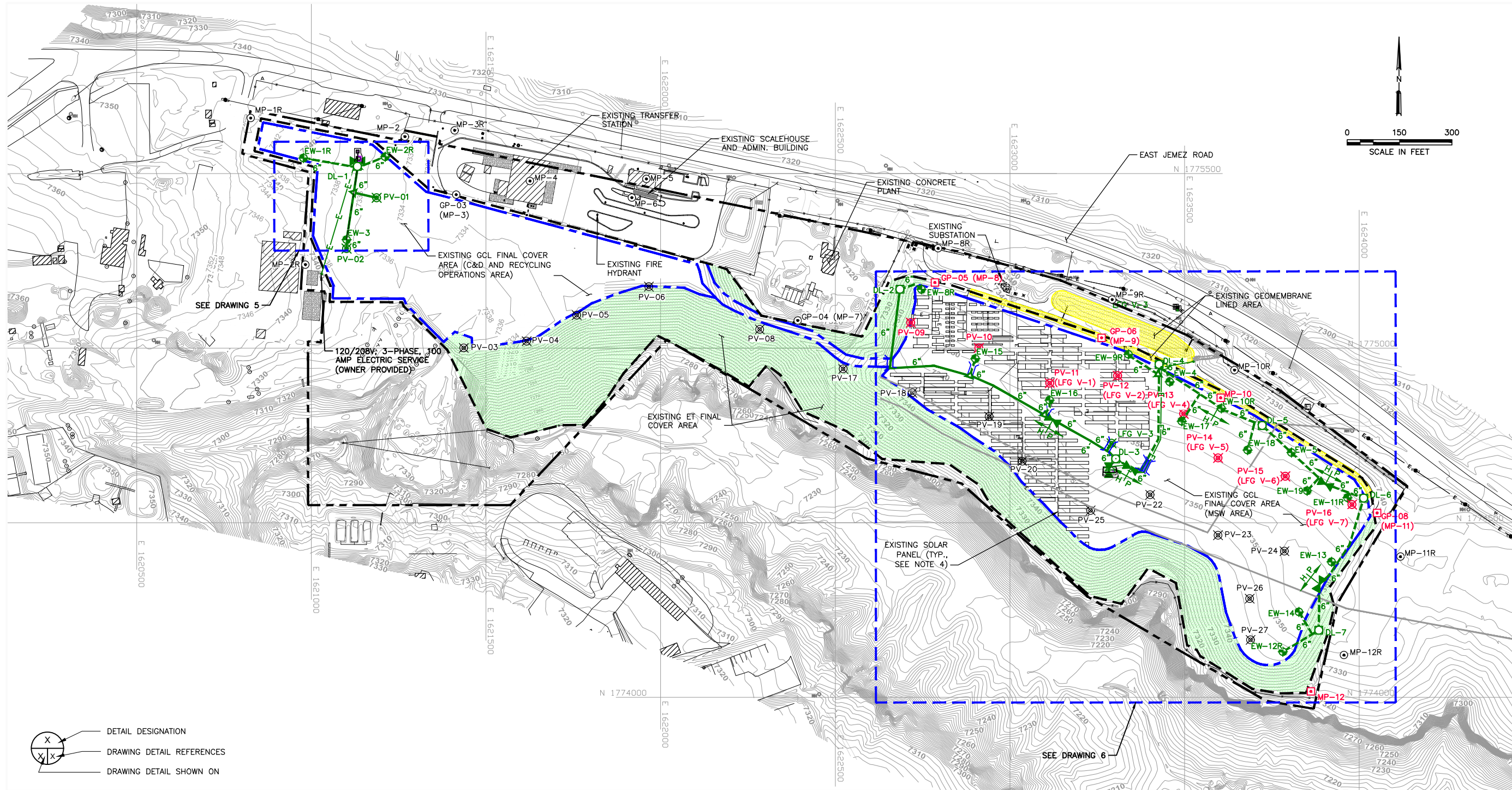
- NOTES:**
1. TOPOGRAPHY CONTOURS FOR THE ENTIRE PROPERTY WERE COMPILED BY PHOTOGRAMMETRIC METHODS IN 2001, AND GROUND SURVEYS PERFORMED IN 2015 AND 2016. EXISTING CONTOURS SHOWN MAY VARY FROM ACTUAL FIELD CONDITIONS.
 2. PRIOR TO COMMENCEMENT OF CONSTRUCTION, CONTRACTOR SHALL LOCATE ALL EXISTING ABOVE-GRADE STRUCTURES AND FACILITIES WITHIN AREAS OF WORK, INCLUDING BUT NOT LIMITED TO SOLAR PANELS, LFG LINES, DRIP LEGS, POWER LINES AND POLES, ETC. ANY DAMAGE TO EXISTING ABOVE-GRADE STRUCTURES AND FACILITIES, AS A RESULT OF CONTRACTOR'S OR SUBCONTRACTOR'S PERFORMANCE OF WORK SHALL BE REPLACED AT THE SOLE EXPENSE OF THE CONTRACTOR.
 3. EXISTING PVC COLLECTION PIPE IS COVERED BY MULCH. PIPING AND MULCH SHALL BE REMOVED BY CONTRACTOR. MULCH, PIPING, AND WELLHEADS SHALL BE DISCONNECTED FROM PROBES/VENTS AND DISPOSED OF AT THE COUNTY'S ONSITE TRANSFER STATION.



FOR BIDDING PURPOSES

CLIENT	LOS ALAMOS COUNTY ECO STATION 3701 E. JEMEZ RD LOS ALAMOS, NM 87544
DRAWING TITLE	EXISTING SITE LAYOUT PLAN
PROJECT TITLE	LOS ALAMOS COUNTY LANDFILL GAS COLLECTION AND CONTROL SYSTEM
DATE	07/2017
SCALE	AS SHOWN
DRAWING NO.	3
CADD FILE	03 - EXISTING CONDITIONS
DATE	07/2017
SCALE	AS SHOWN
DRAWING NO.	3
CLIENT	LOS ALAMOS COUNTY ECO STATION 3701 E. JEMEZ RD LOS ALAMOS, NM 87544
DRAWING TITLE	EXISTING SITE LAYOUT PLAN
PROJECT TITLE	LOS ALAMOS COUNTY LANDFILL GAS COLLECTION AND CONTROL SYSTEM
DATE	07/2017
SCALE	AS SHOWN
DRAWING NO.	3
CADD FILE	03 - EXISTING CONDITIONS
DATE	07/2017
SCALE	AS SHOWN
DRAWING NO.	3
CLIENT	LOS ALAMOS COUNTY ECO STATION 3701 E. JEMEZ RD LOS ALAMOS, NM 87544
DRAWING TITLE	EXISTING SITE LAYOUT PLAN
PROJECT TITLE	LOS ALAMOS COUNTY LANDFILL GAS COLLECTION AND CONTROL SYSTEM
DATE	07/2017
SCALE	AS SHOWN
DRAWING NO.	3
CADD FILE	03 - EXISTING CONDITIONS
DATE	07/2017
SCALE	AS SHOWN
DRAWING NO.	3

7/7/2017 10:07 AM \\BED-F302\Data\Civil_3D\Projects\CADD\Los Alamos County\16216151.00\Task_1.2 - Engineering Plans & Specifications\04 - PROPOSED SITE PLAN



LEGEND	
	EXISTING CONTOURS (SEE NOTE 1)
	PERMIT BOUNDARY
	CURRENT LIMITS OF WASTE (APPROXIMATE)
	STATE PLANE COORDINATE SYSTEM
	EXISTING ET FINAL COVER AREA (APPROXIMATE)
	EXISTING GCL FINAL COVER AREA (APPROXIMATE)
	EXISTING ABOVE-GRADE GEOMEMBRANE LINED AREA (APPROXIMATE)
	EXISTING ELECTRICAL/POWER POLES
	EXISTING PASSIVE GAS VENT
	EXISTING MONITORING PROBE (OUTSIDE OF WASTE)
	ABANDONED IN-PLACE PIPING (APPROXIMATE LOCATION)
	ABANDON EXISTING MONITORING EXTRACTION PROBE (WITHIN WASTE, SEE NOTE 3)
	ABANDON EXISTING GAS VENT (SEE NOTE 3)
	PROPOSED HIGH POINT
	PROPOSED ROAD CROSSING
	PROPOSED VERTICAL EXTRACTION WELL
	EXISTING PASSIVE VENT CONNECTED TO LFG COLLECTION SYSTEM
	PROPOSED CONDENSATE DRIP LEG
	PROPOSED REMOTE WELLHEAD
	PROPOSED ISOLATION VALVE
	PROPOSED LFG COLLECTION PIPING (2% SLOPE)
	PROPOSED LFG COLLECTION PIPING (3% SLOPE)
	PROPOSED ELECTRIC LINE

NOTES:

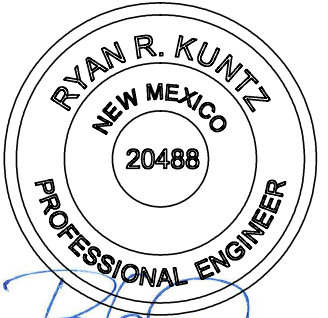
- TOPOGRAPHY CONTOURS FOR THE ENTIRE PROPERTY WERE COMPILED BY PHOTOGRAMMETRIC METHODS IN 2001, AND GROUND SURVEYS PERFORMED IN 2015 AND 2016. EXISTING CONTOURS SHOWN MAY VARY FROM ACTUAL FIELD CONDITIONS.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, CONTRACTOR SHALL LOCATE ALL EXISTING ABOVE-GRADE STRUCTURES AND FACILITIES WITHIN AREAS OF WORK, INCLUDING BUT NOT LIMITED TO SOLAR PANELS AND ELECTRICAL, LFG LINES, DRIP LEGS, POWER LINES AND POLES, MANHOLES, PASSIVE GAS WELLS, MONITORING PROBES, ETC. ANY DAMAGE TO EXISTING ABOVE-GRADE STRUCTURES AND FACILITIES, AS A RESULT OF CONTRACTOR'S OR SUBCONTRACTOR'S PERFORMANCE SHALL BE REPLACED AT THE SOLE EXPENSE OF THE CONTRACTOR.
- GP-05 (MP-8), MP-9, MP-10, GP-08 (MP-11), AND MP-12 AND IDENTIFIED PASSIVE VENTS SHALL BE ABANDONED BY CONTRACTOR AS SHOWN ON DETAIL 10.
- CONTRACTOR SHALL NOTE THAT 3'X3' COPPER PLATES (BELOW-GRADE) AND GROUNDING WIRE GRID (ABOVE-GRADE) EXISTS IN THE VICINITY OF THE EXISTING SOLAR PANELS. ANY DAMAGE TO THE EXISTING GROUNDING GRID, AS A RESULT OF CONTRACTOR'S OR SUBCONTRACTOR'S PERFORMANCE OF WORK SHALL BE REPLACED AT THE SOLE EXPENSE OF THE CONTRACTOR.



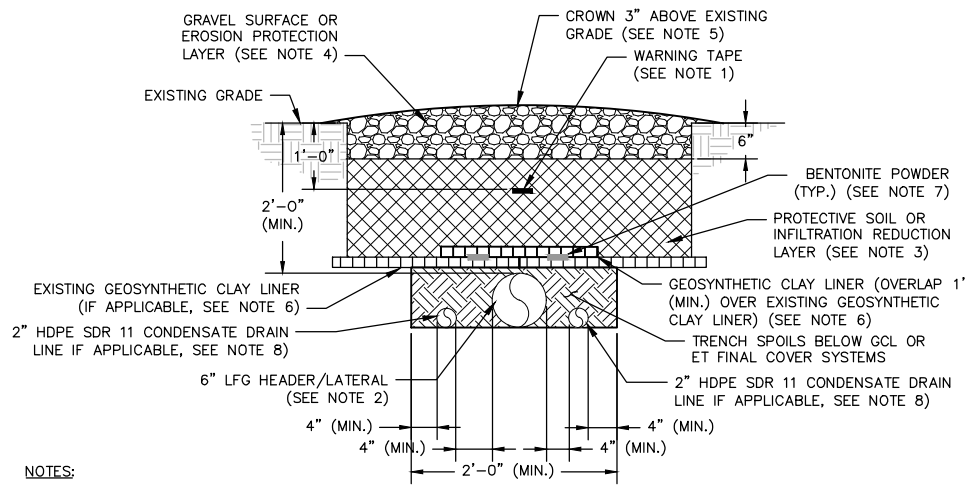
FOR BIDDING PURPOSES

CLIENT	LOS ALAMOS COUNTY ECO STATION 3701 E. JEMEZ RD LOS ALAMOS, NM 87544
DRAWING TITLE	PROPOSED SITE LAYOUT PLAN
PROJECT TITLE	LOS ALAMOS COUNTY LANDFILL GAS COLLECTION AND CONTROL SYSTEM
DATE	07/2017
SCALE	AS SHOWN
DRAWING NO.	4
CADD FILE	04 - PROPOSED SITE PLAN
DATE	07/2017
SCALE	AS SHOWN
DRAWING NO.	4
SCS ENGINEERS	STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 1901 CENTRAL DRIVE, SUITE 550 BEDFORD, TEXAS 76021 PH (817) 571-2288 FAX NO. (817) 571-2188 PROJ. NO. 16216151.00 DWN. BY: BJD CDR. BY: BJD APP. BY: RRK
RYAN R. KUNTZ	NEW MEXICO 20488 PROFESSIONAL ENGINEER

10/25/2017 3:37 PM \\BED-F302\Draws\Civil\30 Projects\CADD\Los Alamos County\16216151.00 Task 1.2 - Engineering Plans & Specifications\08-10 & 14-15 - Typical Details

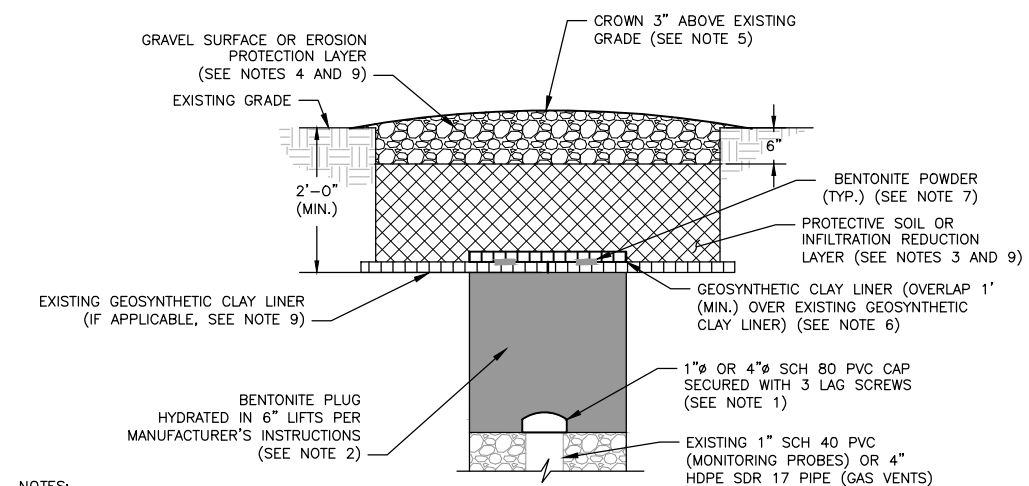


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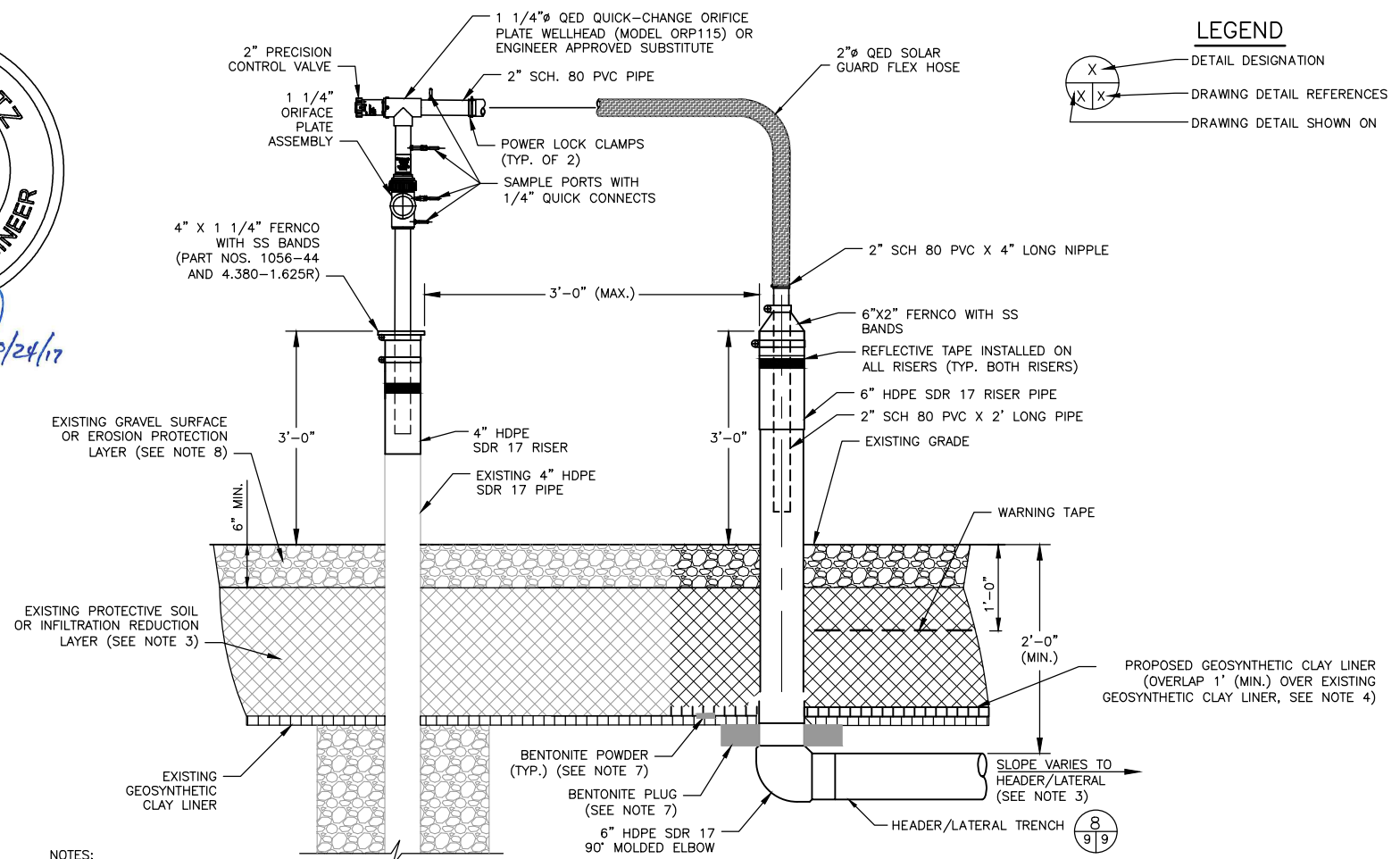
- NOTES:**
- WARNING TAPE SHALL BE MIN. 3" WIDE AND IMPRINTED WITH "GAS LINE BURIED BELOW".
 - ALL HEADER/LATERAL PIPE SHALL BE SDR 17 HDPE PE3408/4710.
 - 18" OF PROTECTIVE SOIL LAYER SHALL BE INSTALLED IN THE GCL FINAL COVER AREAS, AND AN 18" INFILTRATION REDUCTION LAYER SHALL BE INSTALLED IN ET FINAL COVER AREAS, AS SHOWN ON DRAWINGS 4, 5 AND 6. MATERIAL REMOVED ABOVE GCL DURING EXCAVATION (TRENCH SPOILS) MAY BE REUSED PROVIDED IT IS FREE OF REFUSE AND MEET SPECIFICATIONS.
 - 6" CRUSHED RECLAIMED CONCRETE SHALL BE INSTALLED IN THE GCL FINAL COVER AREAS, AND AN 6" EROSION PROTECTION LAYER SHALL BE INSTALLED IN ET FINAL COVER AREAS.
 - PROPOSED GRADE SHALL BE FLUSH WITH EXISTING GRADE IN C&D FILL AREA.
 - GEOSYNTHETIC CLAY LINER SHALL BE USED TO REPAIR EXISTING GCL FINAL COVER IN AREAS IDENTIFIED ON DRAWINGS 4, 5 AND 6. EXISTING GEOSYNTHETIC CLAY LINER WILL BE CUT AND RESEALED TOGETHER ALONG THE TRENCH. A MINIMUM OF 12" OVERLAP OF GEOSYNTHETIC CLAY LINER WILL BE INSTALLED ON EACH SIDE OF THE CUT. GCL SHALL BE SHINGLED IN THE DIRECTION OF THE SLOPE.
 - CONTRACTOR SHALL APPLY BENTONITE POWDER AT A RATE OF 1/4 LB PER FOOT BETWEEN THE EXISTING AND PROPOSED GCL.
 - THE NUMBER OF PIPES INSTALLED IN THE TRENCH MAY VARY. SEE VARIOUS PLAN VIEW DRAWINGS.

HEADER/LATERAL TRENCH 8
NTS 9 | 5,6,8,9,10,11,12



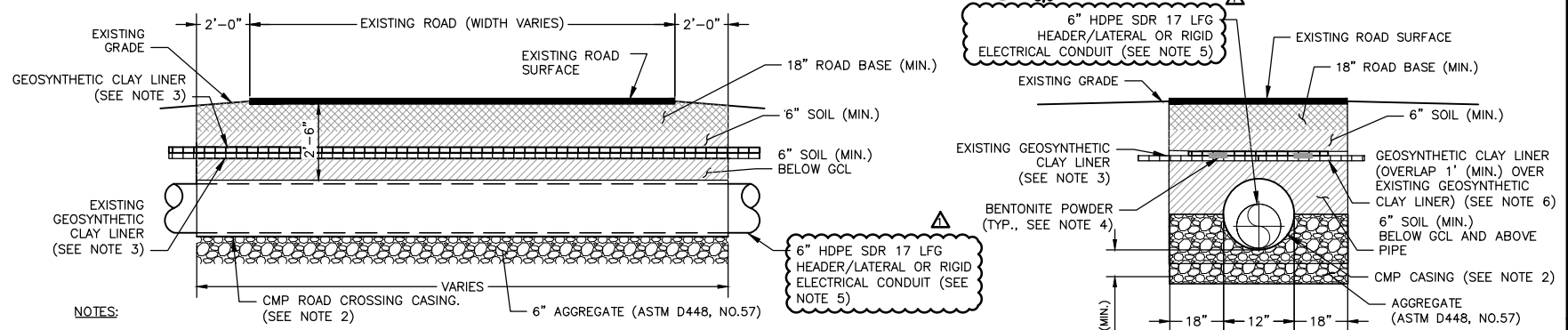
- NOTES:**
- 1" SCH 80 PVC CAP SHALL BE INSTALLED AT EXISTING MONITORING PROBES AND 4" SCH 80 PVC CAP SHALL BE INSTALLED AT EXISTING GAS VENTS. LAG SCREWS ONLY REQUIRED FOR GAS VENTS. PRIMER AND GLUE REQUIRED FOR MONITORING PROBES.
 - 2-FOOT THICK (MIN.) BENTONITE PLUG HYDRATED IN 6" LIFTS PER MANUFACTURER'S INSTRUCTIONS SHALL BE INSTALLED ABOVE PVC CAP.
 - 18" OF PROTECTIVE SOIL SHALL BE INSTALLED IN THE GCL FINAL COVER AREAS, AND AN 18" INFILTRATION REDUCTION LAYER SHALL BE INSTALLED IN ET FINAL COVER AREAS. MATERIAL REMOVED ABOVE GCL DURING EXCAVATION (TRENCH SPOILS) MAY BE REUSED PROVIDED IT IS FREE OF REFUSE.
 - 6" CRUSHED RECLAIMED CONCRETE SHALL BE INSTALLED IN THE GCL FINAL COVER AREAS, AND AN 6" VEGETATION LAYER SHALL BE INSTALLED IN ET FINAL COVER AREAS.
 - PROPOSED GRADE SHALL BE FLUSH WITH EXISTING GRADE IN C&D FILL AREA.
 - GEOSYNTHETIC CLAY LINER SHALL BE USED TO REPAIR EXISTING GCL FINAL COVER IN AREAS IDENTIFIED ON DRAWINGS 4, 5, AND 6.
 - CONTRACTOR SHALL APPLY BENTONITE POWDER AT A RATE OF 1/4 LB PER FOOT BETWEEN THE EXISTING AND PROPOSED GCL.
 - EXISTING GEOSYNTHETIC CLAY LINER WILL BE CUT AND RESEALED TOGETHER ALONG THE TRENCH. A MINIMUM OF 12" OVERLAP OF GEOSYNTHETIC CLAY LINER WILL BE INSTALLED ON EACH SIDE OF THE CUT.
 - SOIL FILL SHALL BE INSTALLED IN AREAS OUTSIDE OF THE GCL AND ET FINAL COVER AREAS.

MONITORING PROBE/GAS VENT ABANDONMENT 10
NTS 9 | 6



- NOTES:**
- WELLHEADS SHALL BE QED QUICK-CHANGE ORIFICE PLATE WELLHEADS (MODEL ORP115) WITH ORIFICE PLATE KIT (MODEL 41747) OR ENGINEER APPROVED SUBSTITUTE. CONTRACTOR SHALL INSTALL WELLHEAD CONSISTENT WITH MANUFACTURER'S INSTRUCTIONS.
 - WARNING TAPE SHALL BE MIN. 3" WIDE AND IMPRINTED WITH "GAS LINE BURIED BELOW".
 - ALL PIPING SHALL BE INSTALLED WITH A MINIMUM SLOPE IDENTIFIED ON DRAWINGS 4, 5 AND 6 (2% OR 3%).
 - GEOSYNTHETIC CLAY LINER (GCL) SHALL BE USED TO REPAIR EXISTING GCL FINAL COVER IN AREAS IDENTIFIED ON DRAWINGS 4, 5 AND 6.
 - 18" OF PROTECTIVE SOIL SHALL BE INSTALLED IN THE GCL FINAL COVER AREAS. MATERIAL REMOVED ABOVE GCL DURING EXCAVATION (TRENCH SPOILS) MAY BE REUSED PROVIDED IT IS FREE OF REFUSE AND MEET SPECIFICATIONS.
 - WELLHEAD TO BE ROTATED FROM LATERAL TO PREVENT SAG AND PROVIDE SLACK IN FLEX HOSE TO ACCOMMODATE FUTURE SETTLEMENT.
 - CONTRACTOR SHALL APPLY BENTONITE POWDER AT A RATE OF 1/4 LB PER FOOT BETWEEN THE EXISTING AND PROPOSED GCL; AND INSTALL A 12-INCH DIA., 4-INCH THICK HYDRATED BENTONITE PLUG BELOW THE EXISTING/PROPOSED GCL AT EACH RISER PIPE. VERTICAL PENETRATIONS OF THE PROPOSED GCL SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
 - 6" CRUSHED RECLAIMED CONCRETE SHALL BE INSTALLED IN THE GCL FINAL COVER AREAS, AND AN 6" EROSION PROTECTION LAYER SHALL BE INSTALLED IN ET FINAL COVER AREAS.

TIE-IN TO EXISTING PASSIVE GAS WELLS/VENTS 9
NTS 9 | 5,6



- NOTES:**
- ACCESS ROAD, BASE, AND SUBBASE SHALL BE RESTORED TO MATCH ORIGINAL CONDITIONS.
 - CASING SHALL BE CMP, GALVANIZED, 14 OR 16 GAUGE THICKNESS COMPLYING WITH ASTM A929/A929M. CMP SHALL HAVE A MINIMUM DIAMETER OF 12".
 - GEOSYNTHETIC CLAY LINER SHALL BE USED TO REPAIR EXISTING GCL FINAL COVER IN AREAS IDENTIFIED ON DRAWINGS 4, 5 AND 6. EXISTING GEOSYNTHETIC CLAY LINER WILL BE CUT AND RESEALED TOGETHER ALONG THE TRENCH. A MINIMUM OF 12" OVERLAP OF GEOSYNTHETIC CLAY LINER WILL BE INSTALLED ON EACH SIDE OF THE CUT. GCL SHALL BE SHINGLED IN THE DIRECTION OF THE SLOPE.
 - CONTRACTOR SHALL APPLY BENTONITE POWDER AT A RATE OF 1/4 LB PER FOOT AT EDGE OF PROPOSED GCL AND RISER PIPE.
 - BELOW-GRADE RIGID ELECTRICAL CONDUIT SHALL BE ENCASED IN GALVANIZED STEEL CORRUGATED METAL PIPE (14 OR 16 GAUGE) BELOW THE ACCESS ROAD, AS SPECIFIED IN SECTION 15090 1.1.F.4.

ROAD CROSSING 11
NTS 9 | 6

FOR BIDDING PURPOSES

LEGEND

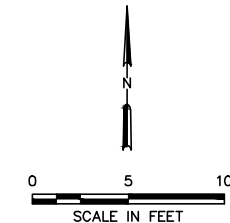
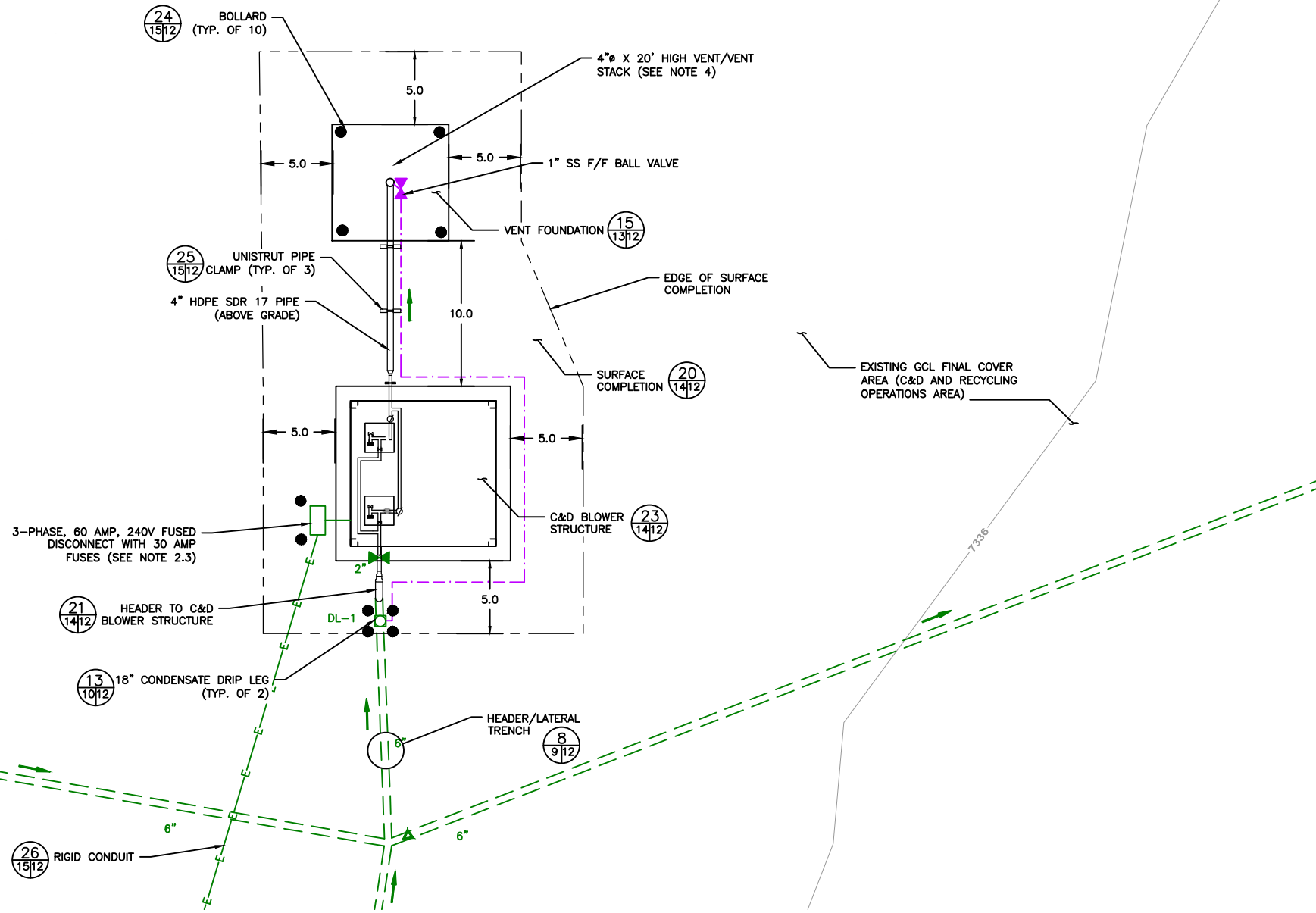
(X)	DETAIL DESIGNATION
(X X)	DRAWING DETAIL REFERENCES
(X X X)	DRAWING DETAIL SHOWN ON

BY:	RRK
DATE:	10/20/17
REV:	1
DESCRIPTION:	UPDATE NOTE 2 AND ADD NOTE 5, DETAIL 11
DRAWING TITLE:	LFG EXTRACTION WELL AND PIPING DETAILS - 2
PROJECT TITLE:	LOS ALAMOS COUNTY LANDFILL GAS COLLECTION AND CONTROL SYSTEM
CLIENT:	LOS ALAMOS COUNTY ECO STATION 3701 E. JEMEZ RD LOS ALAMOS, NM 87544
SCALE:	AS SHOWN
DRAWING NO.:	9
CADD FILE:	08-10 & 14-15 - TYPICAL DETAILS
DATE:	07/2017
SCALE:	AS SHOWN
DRAWING NO.:	9

7/7/2017 11:05 AM \\BED-FS02\DATA\CH01_30\Projects\CADD\Los Alamos County\16216151.00\Task 1.2 - Engineering Plans & Specifications\12- C&D FILL AREA BLOWER FLARE FACILITY LAYOUT

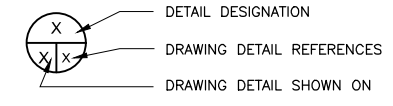


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LEGEND

	EXISTING CONTOURS (SEE NOTE 1)
	CURRENT LIMITS OF WASTE (APPROXIMATE)
	APPROX. EXISTING GCL FINAL COVER AREA
	PROPOSED GRADE BREAK
	PROPOSED BELOW-GRADE LFG COLLECTION PIPING
	PROPOSED ABOVE-GRADE LFG COLLECTION PIPING
	PROPOSED ELECTRIC LINE (SEE NOTE 2)
	PROPOSED CONDENSATE DRAIN LINE (SEE NOTE 3)
	PROPOSED CONDENSATE DRIP LEG
	PROPOSED REMOTE WELLHEAD
	PROPOSED ISOLATION VALVE
	PROPOSED DIRECTION OF DOWNGRAIDENT PIPE SLOPE



- NOTES:**
- TOPOGRAPHY CONTOURS FOR THE ENTIRE PROPERTY WERE COMPILED BY PHOTOGRAMMETRIC METHODS IN 2001, AND GROUND SURVEYS PERFORMED IN 2015 AND 2016. EXISTING CONTOURS SHOWN MAY VARY FROM ACTUAL FIELD CONDITIONS.
 - ALL ELECTRICAL LINES AND CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NES).
 - ALL EQUIPMENT AND FLARE SHALL BE ADEQUATELY GROUNDED TO PREVENT DAMAGE IN THE EVENT OF LIGHTNING STRIKE. WHERE ELECTRICAL LINE CROSSINGS OCCUR BETWEEN OTHER UTILITIES, THE SEPARATION DISTANCE SHALL NOT BE LESS THAN 12 INCHES.
 - OWNER TO PROVIDE 3-PHASE, 120/208V, 100 AMP POWER SERVICE WITH METER AT LOCATION SHOWN ON DRAWING 4.
 - 3-PHASE, 60 AMP FUSED DISCONNECT SHALL BE MOUNTED TO UNISTRUT AND SECURED TO A SUITABLE CONCRETE FOUNDATION.
 - ALL PROPOSED BELOW-GRADE PIPING (CONDENSATE DRAIN AND LFG COLLECTION PIPING) SHALL BE INSTALLED WITH A MINIMUM OF 2 FEET OF SOIL COVER AND 1-FOOT OF SEPARATION AT PIPE CROSSINGS. CONDENSATE DRAIN LINE SHALL BE INSTALLED WITH A MINIMUM OF 2 PERCENT SLOPE TO TIE-IN AT CONDENSATE DRIP LEG. CONDENSATE DRAIN LINES, FITTINGS, AND VALVES ABOVE EXISTING GRADES DOWN TO 2 FEET BELOW GRADE SHALL BE HEAT TRACED AND INSULATED WITH 1 INCH THICK PIP INSULATION RATER FOR PROTECTION BELOW FREEZING.
 - BLOWER AND VENT STACK SHALL BE PRE-FABRICATED BY PERENNIAL ENERGY, LLC, AS SPECIFIED IN SECTION 15090 OF THE TECHNICAL SPECIFICATIONS.
 - ALL UNITS ARE IN FEET UNLESS OTHERWISE STATED.

REV	DATE	DESCRIPTION

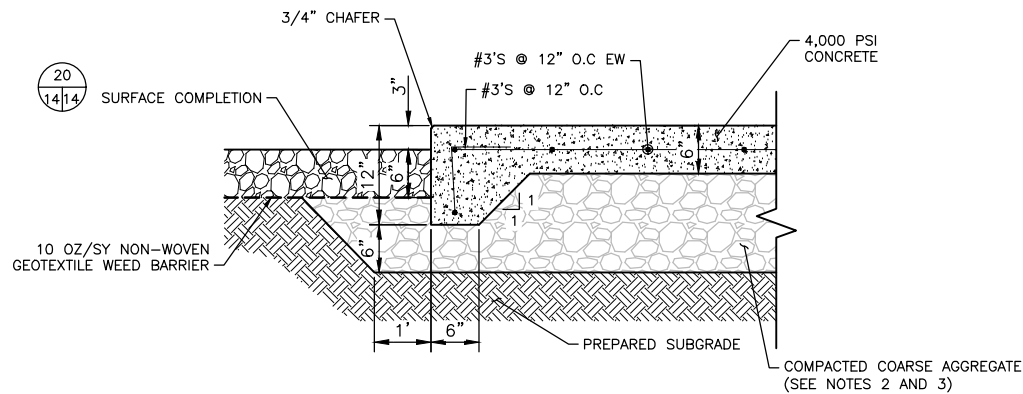
DRAWING TITLE: **C&D FILL AREA BLOWER/VENT FACILITY PLAN**
 PROJECT TITLE: **LOS ALAMOS COUNTY LANDFILL GAS COLLECTION AND CONTROL SYSTEM**

CLIENT: **LOS ALAMOS COUNTY ECO STATION**
3701 E. JEMEZ RD
LOS ALAMOS, NM 87544

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 1901 CENTRAL DRIVE, SUITE 550
 BEDFORD, TEXAS 76021
 PH (817) 571-2288 FAX NO. (817) 571-5188
 PROJ. NO. 16216151.00
 DWN. BY: BJD
 CHK. BY: RPK
 APP. BY: RPK

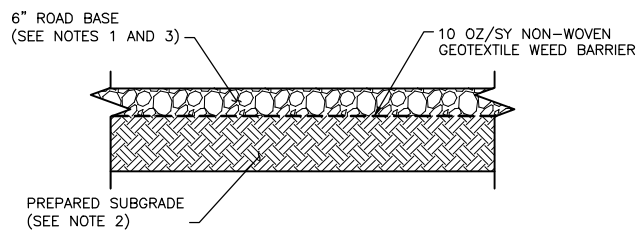
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 DATE: 07/2017
 SCALE: AS SHOWN
 DRAWING NO. 12

FOR BIDDING PURPOSES



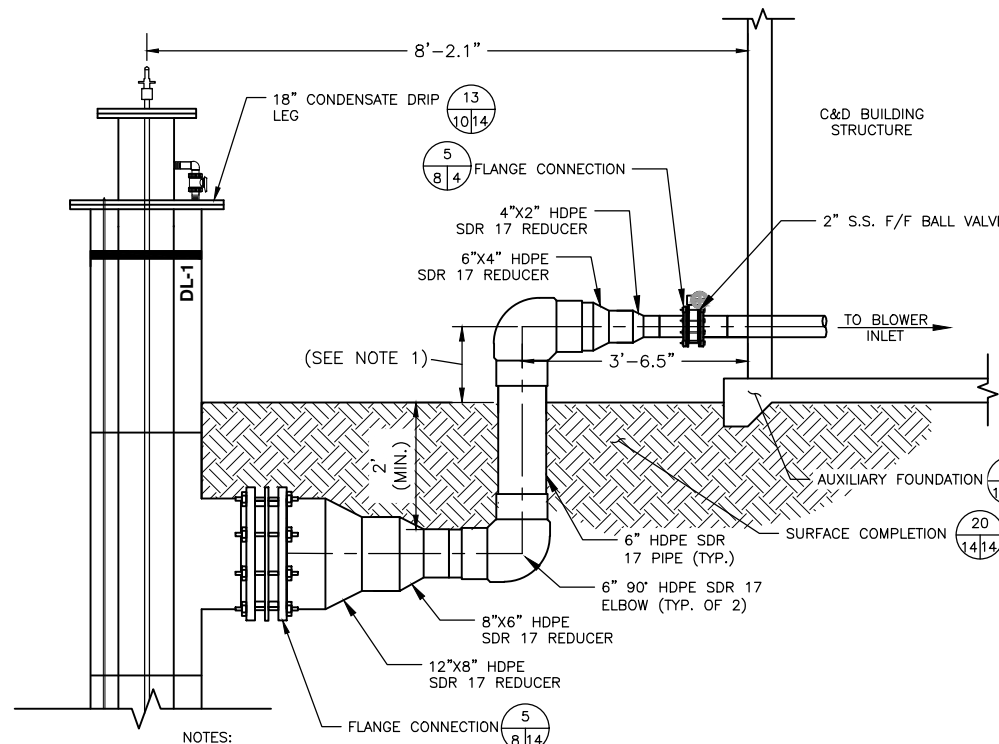
NOTES:

- AUXILIARY FOUNDATION REQUIRED FOR C&D BLOWER STRUCTURE AT DIMENSIONS SHOWN ON DRAWING 11 AND 13.
- COARSE AGGREGATE SHALL GENERALLY CONFORM TO THE GRADATION OF SIZE NO. 57 CONSISTENT WITH ASTM D448. AGGREGATE BENEATH CONCRETE FOUNDATIONS SHALL BE A HARD DURABLE STONE FREE OF CONTAMINATED SOIL AND OTHER DELETERIOUS MATERIALS.
- COMPACTED COARSE AGGREGATE SHALL BE PLACED IN UNIFORM LIFTS NOT TO EXCEED 8 INCH LOOSE LIFTS OR 6 INCH COMPACTED LIFTS. EACH LAYER SHALL BE ROLLED AND KEPT LEVELED WITH SUITABLE EQUIPMENT TO INSURE UNIFORM COMPACTION OVER THE ENTIRE LAYER. PRIOR TO FINAL COMPACTION BRING MATERIAL TO REQUIRED MOISTURE CONTENT BY SPRINKLING OR OTHER APPROPRIATE MEANS. FOR ADDITIONAL COMPACTION REQUIREMENTS, SEE SECTION 02222.
- PLACE # 3 TIES AT 18" O.C. FOR ALL TURNDOWNS.



NOTES:

- ROAD BASE SHALL GENERALLY CONFORM TO THE GRADATION OF NMDOT TYPE 1, BASE COURSE, SET FORTH IN SECTION 303 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY, AND BRIDGES CONSTRUCTION. AGGREGATE SHALL BE CRUSHED ROCK OR RECYCLED CRUSHED CONCRETE, FREE OF CONTAMINATED SOIL AND OTHER DELETERIOUS MATERIALS.
- CONTRACTOR SHALL COMPACT SOIL FILL, INCLUDING AREAS TO RECEIVE CONCRETE FOUNDATIONS, IN UNIFORM HORIZONTAL LIFTS NO GREATER THAN 6 INCHES IN THICKNESS (COMPACTED LIFTS). EACH LIFT SHALL BE COMPACTED WITH A MINIMUM OF 3 COMPLETE PASSES (BACK AND FORTH) WITH SUITABLE COMPACTION EQUIPMENT TO ACHIEVE A MINIMUM OF 95 PERCENT (STANDARD PROCTOR) OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698. SOIL FILL SHALL HAVE A MOISTURE CONTENT WITHIN PLUS 4 PERCENT TO MINUS 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT, AS DETERMINED IN ASTM D698. IN-PLACE DENSITY AND WATER CONTENT TEST (ASTM D6938) SHALL BE CONDUCTED AT A RATE OF 2 TESTS PER LIFT. INSPECTION BY THE CQA CONSULTANT IS REQUIRED DURING FILL AND COMPACTION.
- ROAD BASE SHALL BE PLACED IN UNIFORM LIFTS NOT TO EXCEED 8 INCH LOOSE LIFTS OR 6 INCH COMPACTED LIFTS. EACH LAYER SHALL BE ROLLED AND KEPT LEVELED WITH SUITABLE EQUIPMENT TO INSURE UNIFORM COMPACTION OVER THE ENTIRE LAYER. PRIOR TO FINAL COMPACTION BRING MATERIAL TO REQUIRED MOISTURE CONTENT BY SPRINKLING OR OTHER APPROPRIATE MEANS. FOR ADDITIONAL COMPACTION REQUIREMENTS, SEE SECTION 02222.



NOTES:

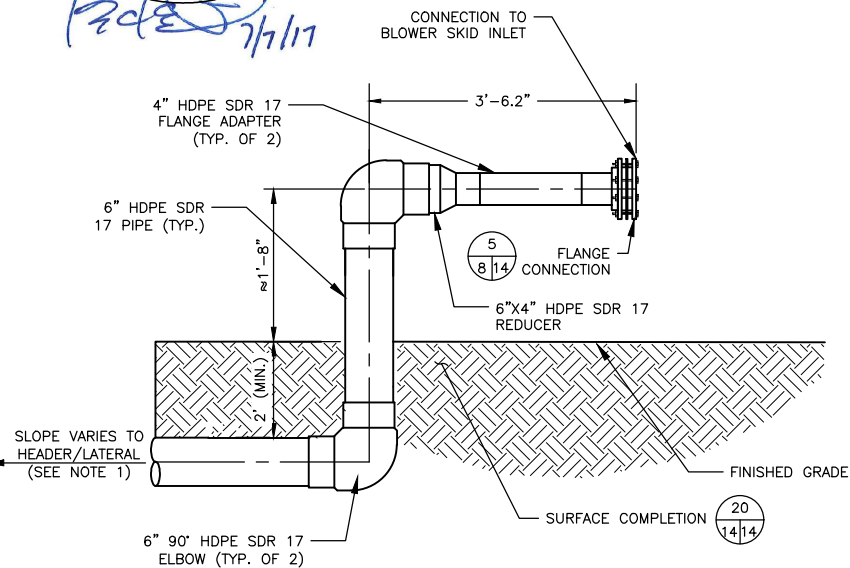
- DIMENSION OF HEADER OFF THE GROUND WILL BE DEPENDENT ON BLOWER INLET HEIGHT.



AUXILIARY FOUNDATION 19
NTS 14/14

SURFACE COMPLETION 20
NTS 14/14 11,12,13,14

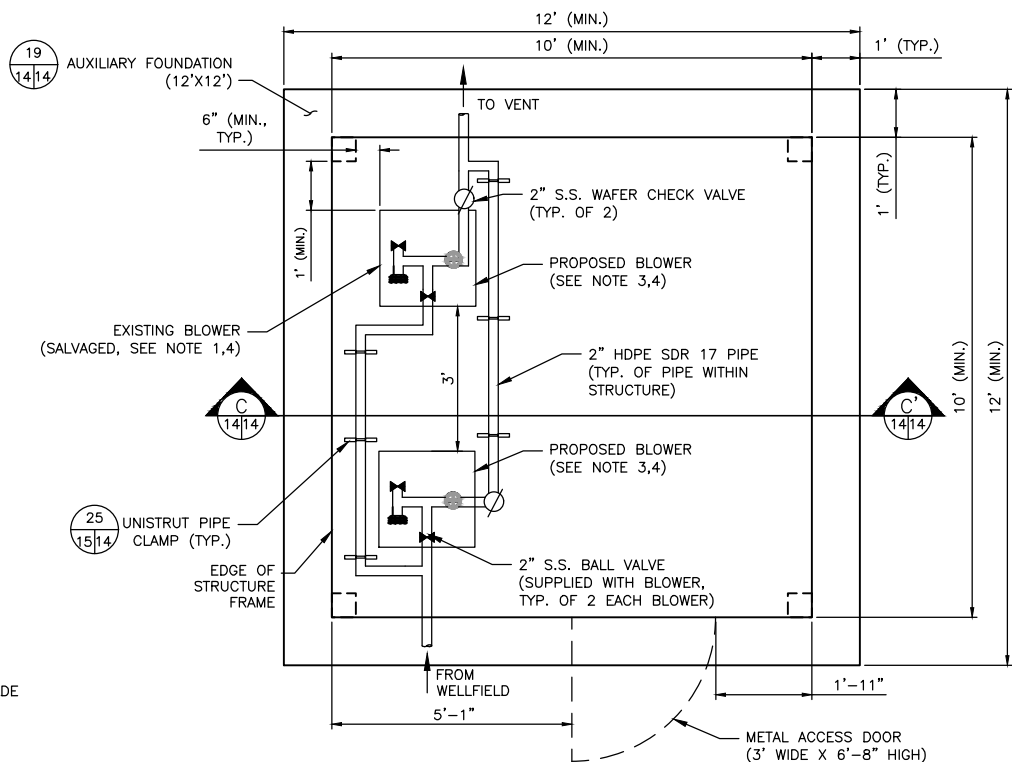
HEADER TO C&D BLOWER STRUCTURE 21
NTS 14/12



NOTES:

- ALL PIPING SHALL BE INSTALLED WITH A MINIMUM SLOPE IDENTIFIED ON DRAWINGS 4, 5 AND 6 (2% OR 3%).

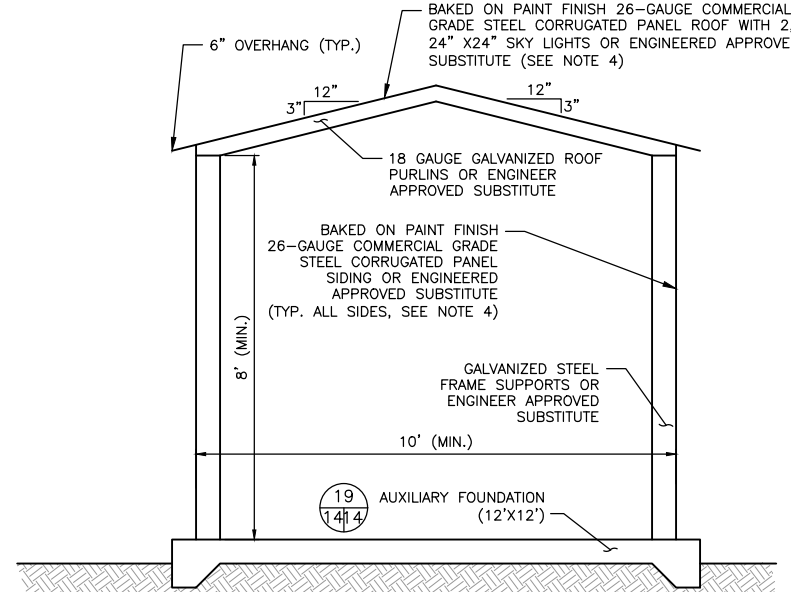
HEADER TO BLOWER SKID CONNECTION 22
NTS 14/11



NOTES:

- CONTRACTOR SHALL INSTALL AND ANCHOR COVER STRUCTURE AND BLOWERS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL SUPPLY AND INSTALL ALL NECESSARY MATERIALS, FITTINGS, ETC. TO INSTALL AND CONNECT ALL COMPONENTS.
- PROPOSED BLOWER SHALL BE SUPPLIED BY CONTRACTOR AND SHALL BE A EVALUSOL SOIL VAPOR EXTRACTION SYSTEM, ITEM NO. ER-2000-S, MODEL NO. ER-20020, 2 HP 230V-60-1.
- CONTRACTOR SHALL SALVAGE AND RELOCATE THE EXISTING BLOWER FROM EXISTING BLOWER LOCATION AT MSW FILL AREA.

C&D BLOWER STRUCTURE 23
NTS 14/12



NOTES:

- THE 10'X10' STEEL CORRUGATED PANEL BUILDING AND ANCHORING SYSTEM DESIGNED IN ACCORDANCE WITH LOS ALAMOS COUNTY BUILDING CODE. BUILDING DESIGN LOADS:
 - GROUND SNOW LOAD: 30 POUNDS PER SQUARE FOOT
 - WIND SPEED: 90 MILES PER HOUR
 - SEISMIC DESIGN CATEGORY: C
 - SUBJECT TO DAMAGE FROM:
 - WEATHERING: MODERATE
 - FROST LINE DEPTH: 3' LA-2WR [36 INCHES]
 - TERMITE: SLIGHT TO MODERATE
 - WINTER DESIGN TEMP: 10 DEGREES FAHRENHEIT
 - ICE BARRIER UNDERLAYMENT REQUIREMENT: YES
 - FLOOD HAZARDS: SEPTEMBER 1987
 - AIR FREEZING INDEX: 650
 - MEAN ANNUAL TEMP: 48.5 DEGREES FAHRENHEIT
 - BUILDING REGULATIONS IN THE LOS ALAMOS COUNTY CODE OF ORDINANCES
- THE BUILDING STRUCTURE SHALL BE PRE-FABRICATED BY MUELLER, INC., VERSATUBE BUILDING SYSTEMS, OR ENGINEER APPROVED SUBSTITUTE. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND ANCHORING SYSTEM IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- THE MANUFACTURER SHALL PROVIDE A MINIMUM 20-YEAR FRAME, SHEET METAL, AND PAINT WARRANTY.
- CONTRACTOR SHALL MATCH THE COLOR OF THE PAINT FINISH ON THE EXISTING TRANSFER STATION.

C&D BLOWER STRUCTURE SECTION C-C
NTS 14/14

FOR BIDDING PURPOSES

REV	DATE	DESCRIPTION

DRAWING TITLE: MISCELLANEOUS BLOWER/FLARE DETAILS - 1
PROJECT TITLE: LOS ALAMOS COUNTY LANDFILL GAS COLLECTION AND CONTROL SYSTEM

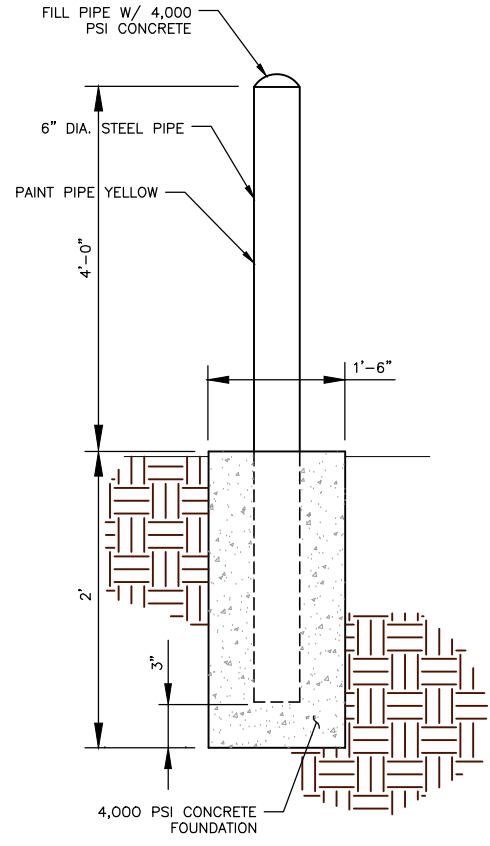
CLIENT: LOS ALAMOS COUNTY ECO STATION
3701 E. JEMEZ RD
LOS ALAMOS, NM 87544

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
1901 CENTRAL DRIVE, SUITE 550
BEDFORD, TEXAS 76021
PH (817) 571-2288 FAX NO. (817) 571-5288
DWN. BY: BLD
CHK. BY: RPK
APP. BY: RPK

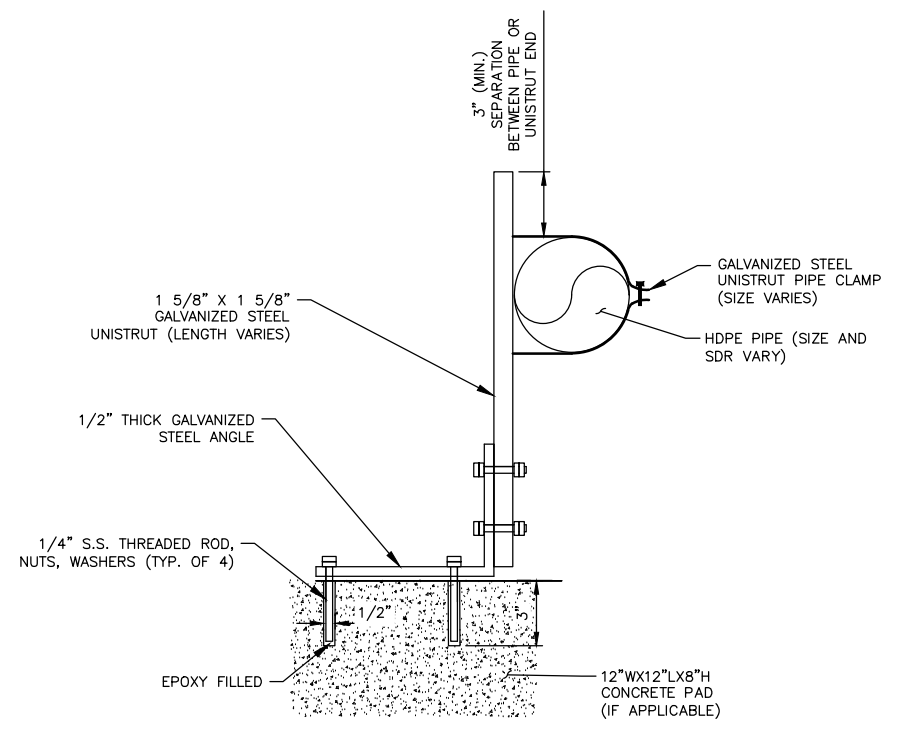
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DATE: 07/2017
SCALE: AS SHOWN
DRAWING NO. 14

7/7/2017 4:40 PM \\BED-F302\Draws\Civil_3D\Projects\CADD\Los Alamos County\16216151.00_Task_1.2 - Engineering Plans & Specifications\08-10 & 14-15 - Typical Details

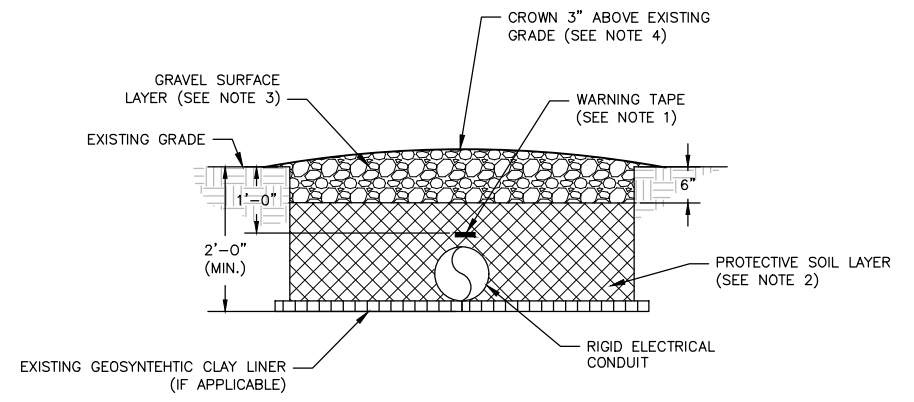
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BOLLARD 24
NTS 15/12



UNISTRUT PIPE CLAMP 25
NTS 15/12, 15



- NOTES:**
1. WARNING TAPE SHALL BE MIN. 3" WIDE AND IMPRINTED WITH "GAS LINE BURIED BELOW".
 2. 18" OF PROTECTIVE SOIL LAYER SHALL BE INSTALLED IN THE GCL FINAL COVER AREAS, AS SHOWN ON DRAWINGS 4, 5 AND 6. MATERIAL REMOVED ABOVE GCL DURING EXCAVATION (TRENCH SPOILS) MAY BE REUSED PROVIDED IT IS FREE OF REFUSE AND MEET SPECIFICATIONS.
 3. 6" OF GRAVEL OR CRUSHED RECLAIMED CONCRETE SHALL BE INSTALLED IN THE GCL FINAL COVER AREAS.
 4. PROPOSED GRADE SHALL BE FLUSH WITH EXISTING GRADE IN C&D FILL AREA.
 5. THIS DETAIL APPLIES ONLY TO THE ELECTRICAL LINE FROM THE OWNER PROVIDED 120/208V, 3 PHASE, 100 AMP ELECTRIC SERVICE TO THE EXISTING/PROPOSED BLOWERS FOR THE C&D FILL AREA FACILITY.

RIGID CONDUIT 26
NTS 15/12, 5, 12



[Signature] 10/24/17

FOR BIDDING PURPOSES

DRAWING TITLE MISCELLANEOUS BLOWER/ FLARE DETAILS - 2	REV	DATE	DESCRIPTION	BY
	1	10/2017	ADD NOTE 5, DETAIL 26	RRK
PROJECT TITLE LOS ALAMOS COUNTY LANDFILL GAS COLLECTION AND CONTROL SYSTEM				
CLIENT LOS ALAMOS COUNTY ECO STATION 3701 E. JEMEZ RD LOS ALAMOS, NM 87544				
SCS ENGINEERS STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS 1901 CENTRAL DRIVE, SUITE 550 BEDFORD, TEXAS 76021 PH (817) 571-2288 FAX NO. (817) 571-2188 PROJ. NO. 16216151.00 DWN. BY: BJD CDR. BY: RPK APP. BY: RPK				
CADD FILE: 08-10 & 14-15 - TYPICAL DETAILS				
DATE: 07/2017				
SCALE: AS SHOWN				
DRAWING NO. 15				