CITY OF ALBUQUERQUE



March 28, 2017

Richard J. Berry, Mayor

Tandy M. Freel, P.E. Bohannan Huston Inc. Courtyard 1, 7500 Jefferson St NE, Albuquerque, NM, 87109

RE: PNM Girard Substation Improvement

Grading and Drainage Plan

Engineer's Stamp Date 3-14-2017(File: H16D011)

Dear Mr. Freel:

Based upon the information provided in your submittal received 3-15-2017, the above referenced Grading and Drainage Plan is approved for Grading Permit Approval and SO19 Approval.

PO Box 1293

Please attach a copy of this approved plan in the construction sets when submitting for the building permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque

If you have any questions, you can contact me at 924-3999.

New Mexico 87103

Sincerely,

www.cabq.gov

Shahab Biazar, P.E.

City Engineer, Planning Dept. Development Review Services

MA/SB



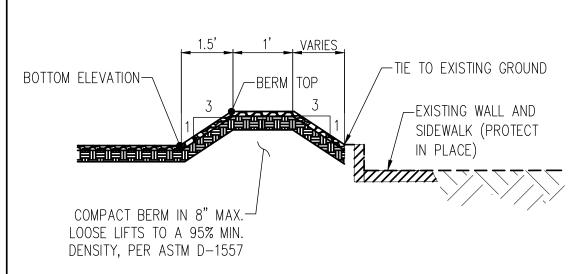
City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

RB#:	EPC#:	Building Permit #: City Drainage #: H6
egal Description: Tract B-1 of Th	ne Plat of Tracts A-1-A and B-1 of Cole's Industri	al Subdivision No. 3 in the City of Albuquerque, New Mexico
City Address: 2733 Girard Blvd NE		
Engineering Firm: Bohannan H	luston Inc	Contact: Tandy Freel
Address: Courtyard I, 7500 Jefferson St NE, Albuquerque, NM 87109		Contact. Tandy Free
Phone#: 505-823-1000	Fax#: 505-798-7988	E-mail: tfreel@bhinc.com
i none	Tunn.	E maii.
Owner: PNM		Contact: Chris Maestas
Address: 2401 Aztec Rd NE, Albu	querque, NM 87107	
Phone#: 505-241-0853	Fax#:	E-mail: Chris.Maestas@pnm.com
Architect:		Contact:
A ddwarau		
	Fax#:	
Other Contact:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
TYPE OF SUBMITTAL: ENGINEER/ ARCHITECT (CONCEPTUAL G & D PLA GRADING PLAN DRAINAGE MASTER PLA	MAR 1 5 2017	PRELIMINARY PLAT APPROVAL SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE FOUNDATION PERMIT APPROVAL
CLOMR/LOMR		X GRADING PERMIT APPROVAL X SO-19 APPROVAL PAVING PERMIT APPROVAL
DRAINAGE REPORT CLOMR/LOMR TRAFFIC CIRCULATION TRAFFIC IMPACT STUDY	LAYOUT (TCL)	X GRADING PERMIT APPROVAL X SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION
CLOMR/LOMR TRAFFIC CIRCULATION TRAFFIC IMPACT STUDY	LAYOUT (TCL) (TIS)	X GRADING PERMIT APPROVAL X SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL
CLOMR/LOMR TRAFFIC CIRCULATION	LAYOUT (TCL) (TIS)	X GRADING PERMIT APPROVAL X SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION
CLOMR/LOMR TRAFFIC CIRCULATION TRAFFIC IMPACT STUDY	LAYOUT (TCL) (TIS) CONTROL PLAN (ESC)	X GRADING PERMIT APPROVAL X SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL



6

6:1 SLOPE (TYPICAL)

5

A PROPOSED BERM SECTION

EXISTING PNM **GIRARD SUBSTATION**

Point Table								
0	NORTHING	EASTING	ELEVATION	DESCRIPTION				
1	1496559.97	1531576.76	5103.77	BOTTOM ELEV.				
2	1496560.09	1531585.72	5103.72	BOTTOM ELEV.				
3	1496549.49	1531576.75	5103.77	BOTTOM ELEV.				
4	1496549.77	1531584.86	5103.72	BOTTOM ELEV				
5	1496549.87	1531587.64	5103.72	BOTTOM ELEV				
6	1496547.99	1531576.80	5104.26	BERM TOP				
7	1496548.37	1531587.69	5104.22	BERM TOP				
8	1496550.87	1531587.64	5103.72	INVERT ELEV				
9	1496550.87	1531588.64	5104.36	EXISTING ELEV				
10	1496553.62	1531587.64	5103.83	INVERT ELEV				
11	1496556.37	1531587.64	5103.93	invert elev.				
12	1496559.11	1531587.64	5104.04	invert elev				
13	1496560.12	1531587.64	5104.04	CULVERT EDG				
14	1496563.73	1531585.69	5104.33	EXISTING ELEV				
15	1496567.81	1531588.62	5105.00	EXISTING ELEV				
16	1496560.12	1531588.65	5104.71	EXISTING ELEV				
17	1496559.13	1531595.38	5103.88	EXISTING FL				
18	1496556.38	1531595.38	5103.77	EXISTING FL				
19	1496553.63	1531595.37	5103.67	EXISTING FL				
20	1496550.88	1531595.36	5103.56	EXISTING FL				

NOTE: ELEVATIONS LISTED IN TABLE ARE TOP OF 4" BASE COURSE/COBBLE FINISHED GRADE

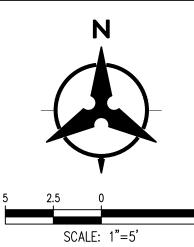
P:\20170328\TRANS\Design\Plan Production\Plans\PNM GIRARD.dwg

Tue, 14-Mar-2017 - 6:52:pm, Plotted by: CVERMILLION

PNM GIRARD SUBSTATION SITE - HYDRAULIC CALCULATIONS Ultimate Development Conditions Basin Data Table This table is based on the DPM Section 22.2, Zone: 2 SUB-BASIN Q(100) Q(100) Area Area Land Treatment Percentages ID (SQ. FT) (AC.) С D (cfs/ac.) Α В (cfs) **Existing Basin** 99450 0.0% 0.0% 5.0% 95.0% 4.62 10.55 Upstream of Proposed 2.28 Culverts)

9" MIN SPACING BETWEEN SIDEWALK

CULVERTS PER STD DWG NO 2236

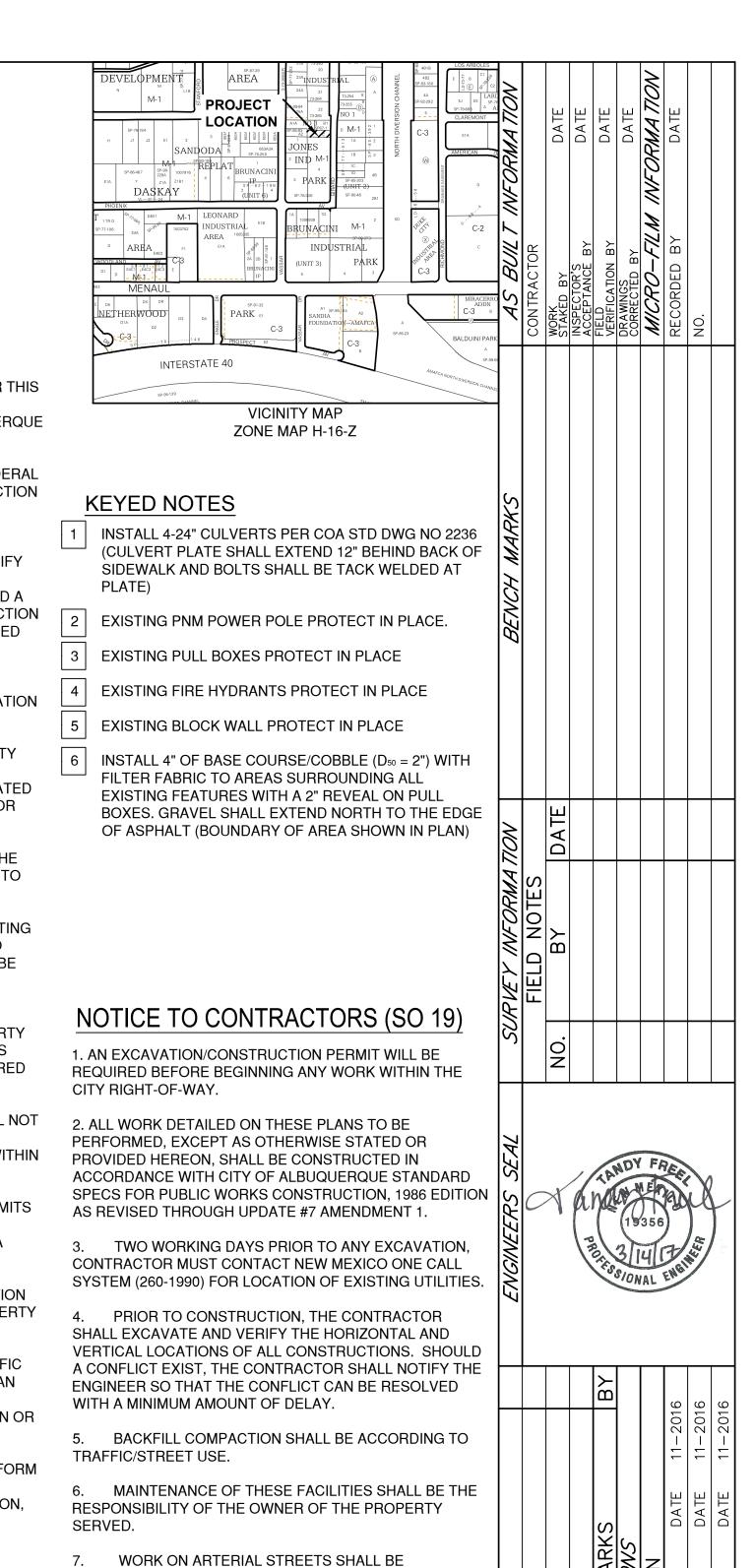


GENERAL NOTES

- 1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. WHERE APPLICABLE, CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS SHALL APPLY.
- 2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.
- 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
- 5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).
- 10. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- 11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- 12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- 13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- 14. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.

GRADING NOTES

- 1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- 2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
- 3. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
- 4. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
- 5. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.
- 6. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.



PERFORMED ON A 24-HOUR BASIS.

CITY OF ALBUQUERQUE PLANNING AND DESIGN DIVISION

PROJECT TITLE:
PNM GIRARD SUBSTATION IMPROVEMENTS

TITLE:

Design Review Committee	City Engineer Approval			Mo. / Day / Yr.	Mo. / Day / Yr.	
_			go.			
			Jpdat			
			ign L			
			Last Design Update			
			Las			
CITY PROJECT NO.		ZONE MAP N	Э.	DWG.	SHEET	OF
		H-16-Z				
	•					