



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 4, 2002

Jeffrey A. Peterson
BPLW Architects & Engineer's Inc.
6200 Uptown Blvd., Suite 400
Albuquerque, New Mexico 87110

**RE: Grading and Drainage Report for QWEST Academy (D19-D4A) Dated
November 1, 2002**

Dear Mr. Peterson:

The drainage plan received November 1, 2002 is reapproved for building permit. The referenced plan is also approved for SO-19 permit for construction within the city right-of-way. Sign-off by City's field inspector for SO-19 is required for Hydrology final approval. Upon completion of the project please certify the project per the DPM for final Certificate of Occupancy release. If you have any questions please contact me at 924-3982.

Sincerely,

Carlos A. Montoya
City Floodplain Adm.

C: Matt Cline, Arroyo Maintenance w/drawings
Pam Lujan, Excavation Permit
Victor Chavez, Planning Director



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 20, 2001

Thomas B. Ponder, P.E.
Chavez-Grievies Consulting Engineers, Inc.
5639 Jefferson NE, Suite 1
Albuquerque, NM 87109

Attn: Arnell Friedt, E.I.

**RE: QWEST - ACADEMY BUILDING ADDITION, Wyoming & Scott's Place(D19-D4A).
GRADING AND DRAINAGE PLAN FOR GRADING PERMIT, FOUNDATION
PERMIT, BUILDING PERMIT, AND SO#19 PERMIT APPROVALS. ENGINEER'S
STAMP DATED JUNE 8, 2001.**

Dear Mr Ponder:

Based on the information provided on your June 11, 2001 resubmittal, the above referenced project is approved for Grading, Foundation, Building, and SO#19 Permits.

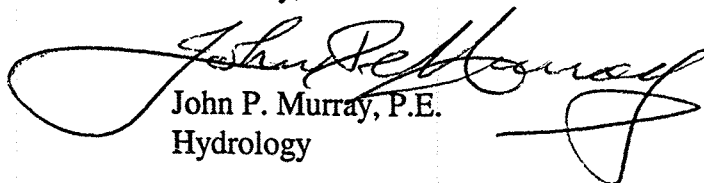
Please furnish a second copy of G&D Plan(5A202-AC-SKCO4) for the record. The initial copy has been forwarded to Permits for the SO#19 process..

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Prior to Certificate of Occupancy approval, an Engineer's Certification per the DPM will be required.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,


John P. Murray, P.E.
Hydrology

c: Pam Lujan
Terri Martin
✓ File

SECTION 02790

STORM WATER PUMP STATION

PART 1 - GENERAL

1.1 SCOPE

- A. Furnish and install one complete storm water pump station as shown on the plans and specified including structure, submersible pumps, motors, piping, check valves, gate valves, access covers, control panel and appurtenances.

PART 2 - PRODUCTS

2.1 PUMPS AND MOTORS

- A. 225 gpm at 15.5 feet TDH, submersible, air filled motors, four inch, Flygt NP-3085 with mix/flush valve, 2.2 HP, 3 phase, 460 volts, and impeller 463.

2.2 GUIDE BARS AND BRACKETS

- A. By pump suppliers, stainless steel

2.3 GATE VALVES

- A. Bronze body, threaded end, solid wedge, union bonnet, 150 psi, Crane, or equal.

2.4 CHECK VALVES

- A. Threaded end, Flygt HDL Ball Checks, or equal.

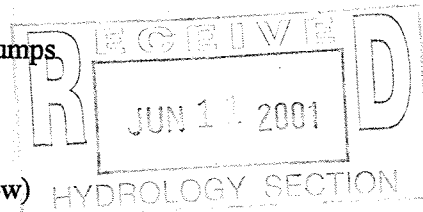
2.6 PUMP CONTROLS

- A. The pump controls shall be AEG@ Pump Controls, a division of Electromate Corporation of Jacksonville, Florida.

1. The Logic Control System shall include the following:

a. Logic control panel consists of the following components:

1. Hand-Off-Auto selector switches for pumps
2. Pump run pilot lights (green)
3. 24 VAC power on indicator light (yellow)
4. Start pump indicator light (red)



5. Level alarm indicator light (red)
6. Alarm silence push button
- b. Logic control panel options:
 1. Elapsed time indicators to indicate pump run time.
2. Logic control chassis consists of the following components:
 - a. Square base plug-in relays 3PDT contacts rated at 10 Amp 230 VAC. Relays furnished withhold down bales to secure relays in place.
 1. Electromechanical alternator - plug-in type.
 2. Power On-Off switch for 120 VAC input, 24 VAC power.
 3. 15 Amp circuit breaker for 120 VAC power.
 4. 3 Amp circuit breaker for 120 VAC power.
 5. Transformer 120 VAC input, 24 VAC output.
 6. Auto/Manual alteration sequence selector switch.
 7. Three (3) point terminal block for supply power - 120 VAC.
 8. Twelve (12) point terminal block for level control inputs.
 9. Twenty (20) point terminal block for all outputs including terminal for visual and audible (or telemetry) alarm, normal dim glow for external alarm light, power monitoring for moisture and temperature sensing also with motor lock out and indicating LD.
3. Logic control sequence of operations is as follows:
 - a. 3rd Level - High Level Alarm
 - b. 2nd Level - Start Pump
 - c. 1st Level - Stop Pump(s)

B. MOTOR CONTROLS

1. Type: 1:
 - a. Heavy duty E frame thermal magnetic circuit breakers with trip test button for short circuit protection.
 - b. NEMA rated motor starters rated for ten (10) million full load electrical operations.

- c. External reset buttons mounted on hinged dead front.
- d. Set main lugs for incoming power connections.
- e. Ground lug on back panel.
- f. Strip heater and thermostat to prevent condensation and freezing. *See motor control below

C. ENCLOSURE

- 1. NEMA type 3R fabricated from 14 ga galvanized steel, which is primed inside and out.
- 2. All hardware is stainless steel.
- 3. Removable back panel.
- 4. Dead front (inner door) fabricated from .080 Marine Alloy aluminum.

D. OPTIONS

- 1. Power monitor-to-monitor high voltage, low voltage, and phase reversal, loss.
- 2. GFI duplex receptacle.
- 3. Lightning arrestor.
- 4. Alarm horn mounted on side of enclosure.
- 5. NEMA 4X red lexan alarm light mounted on top of enclosure.
- 6. Time delay on lag pump start, prevents simultaneous starting of lead and lag pumps.
- 7. Elapsed time meters.
- 8. Flasher for alarm light.
- 9. Overload pilot light (2).
- 10. Over temperature pilot light (2) with manual reset on light and auto reset switch.
- 11. Spare relay mounted on back panel.
- 12. Spare alternator mounted on back panel.
- 13. Five copies of operation/maintenance manual in three-ring binder.

2.7 HATCHES

- A. As specified on Drawings.

2.8 ACCESSORIES

- A. Stainless steel cable and chain hanger bracket, two 1/4" stainless steel lifting cables, lifting hood and eyebolt.

2.9 STRUCTURE

- A. Precast manhole sections, ASTM C-478 with Ramnek joint sealant. Reinforced concrete and reinforcing steel to comply with Section 03310. All interior surfaces shall have "T-Loc" liner or approved equal.

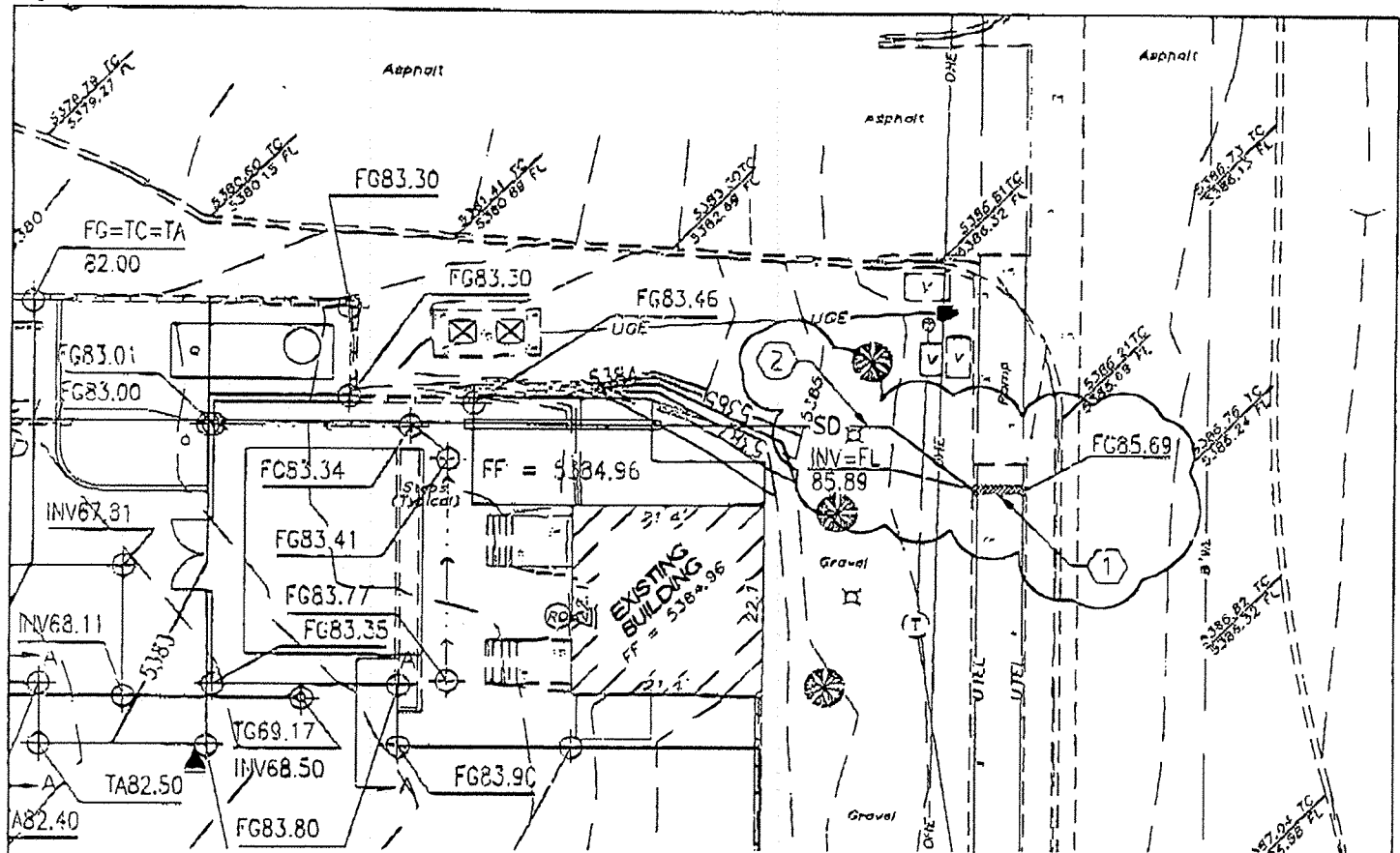
2.10 PIPING

- A. 2" and smaller - Galvanized Steel SCH 80
- B. 3" and larger - PVC, SDR 21, 200 psi, push on gasket joints
- C. 4" Discharge pipe to be jointless Poly-Pipe

PART 3 - EXECUTION

- A. Installation to be in accordance with manufacturers instructions and as detailed on the plans. All anchor bolts to be stainless steel.

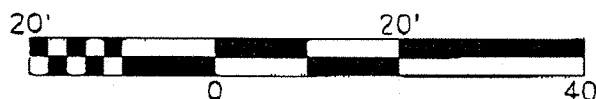
END OF SECTION 02530



KEYED NOTES



- 1 CONSTRUCT 1' WIDE SIDEWALK CULVERT PER COA STD DWG 2236.
- 2 INSTALL NEW 4" JOINTLESS POLY-PIPE PRESSURE STORM DRAIN LINE.



1"=20'



CHAVEZ-GRIEVES
CONSULTING ENGINEERS, INC.

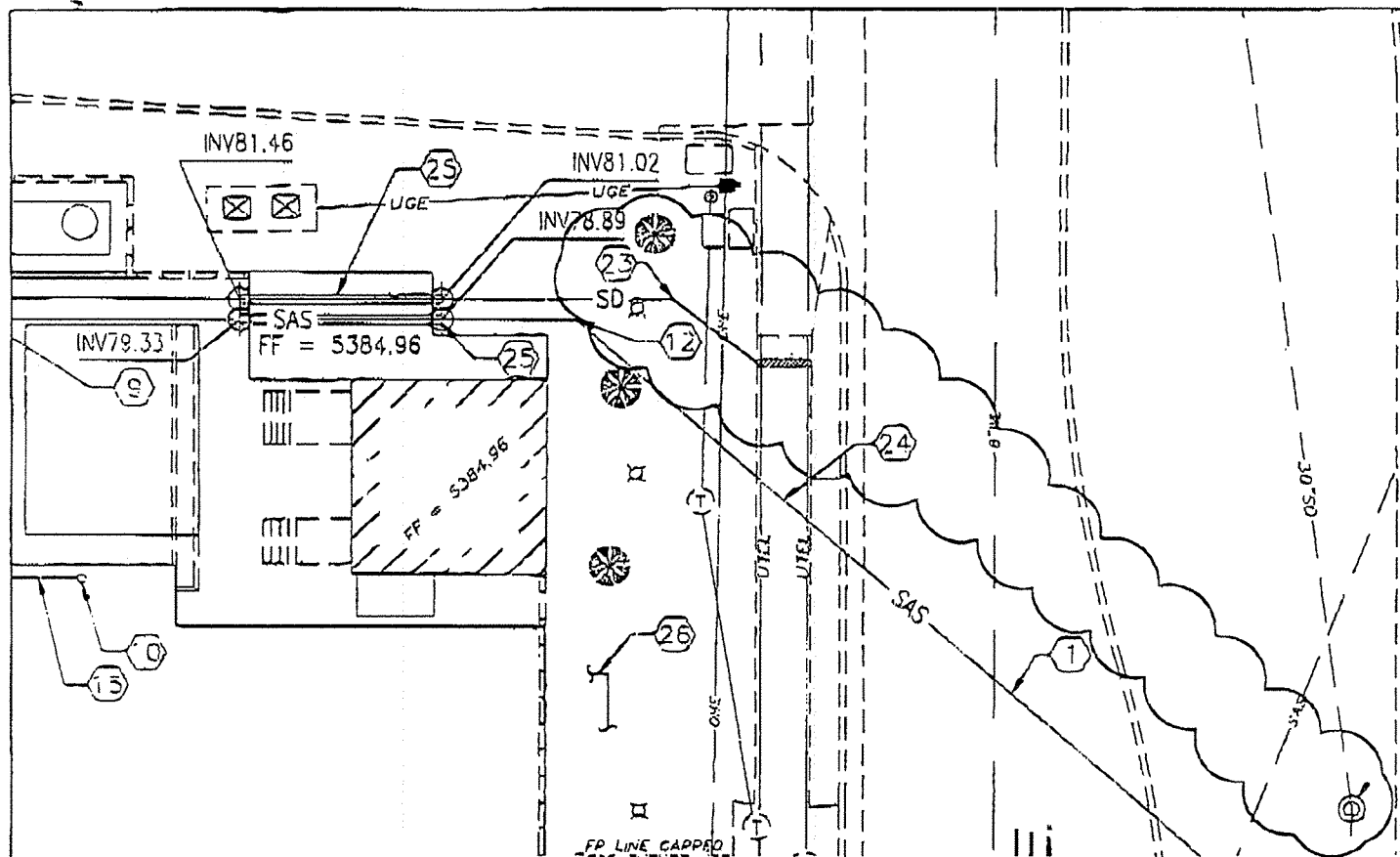
5532 JEFFERSON STREET NE
ALBUQUERQUE, NEW MEXICO 87110
PHONE (505) 344-4080
FAX (505) 343-8759

ACADEMY BUILDING ADDITION

ALBUQUERQUE

NEW MEXICO

DESIGNED BY:	J. KELLEY	SCALE:	1"=20'
DRAWN BY:	B. ORTEGA	JOB NUMBER:	B01-1b
FILE NAME:	B01161C601.DWG	DATE:	9-19-01
DESCRIPTION:	GRADING & DRAINAGE PLAN MODIFICATIONS		
	C1		



KEYED NOTES

5 NOT USED.
22 NOT USED.
23 INSTALL 1~45° BEND.



1"=20'



CHAVEZ-GRIEVES
CONSULTING ENGINEERS, INC.
5630 HENDERSON STREET NE
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 344-4080
FAX (505) 342-0729

ACADEMY BUILDING ADDITION

ALBUQUERQUE

NEW MEXICO

DESIGNED BY:	J. KELLEY	SCALE:	1"=20'
DRAWN BY:	B. ORTEGA	JOB NUMBER:	801-161-01
FILE NAME:	B01161C1001.DWG	DATE:	8-19-01
DESCRIPTION:	UTILITY PLAN MODIFICATIONS		C2