CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

April 11, 2017

Fred C. Arfman, P.E. Isaacson & Arfman, P.A. 128 Monroe St. N.E Albuquerque, NM, 87108

RE: 616 Lomas Blvd NW Shell Building Grading Plan Stamp Date: 4/3/17 Hydrology File: J14D183

Dear Mr. Arfman:

PO Box 1293 Based upon the information provided in your submittal received 4/11/2017, the Grading Plan is approved for Building and SO-19 Permit.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Albuquerque

Sincerely,

New Mexico 87103

Renee C. Brissett

www.cabq.gov

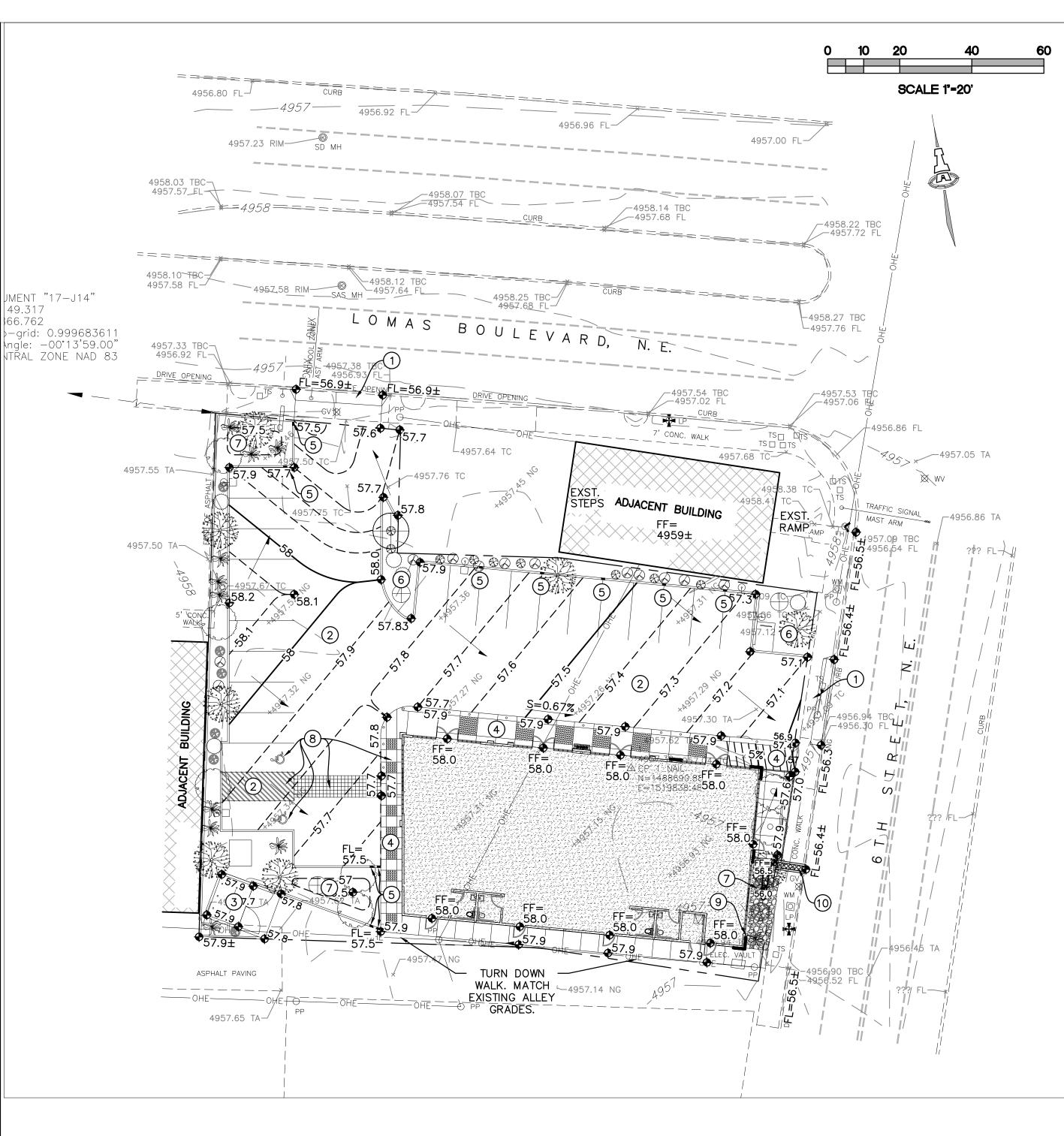
Reneé C. Brissette, P.E. Senior Engineer, Hydrology Planning Department

GENERAL NOTES

- A. PROPOSED SPOT AND CONTOUR ELEVATIONS SHOWN REPRESENT TOP OF FINISH MATERIAL (I.E. TOP OF CONCRETE, TOP OF CONCRETE BUILDING PAD, TOP OF PAVEMENT MATERIAL, TOP OF LANDSCAPING MATERIAL, ETC.). CONTRACTOR SHALL GRADE, COMPACT SUBGRADE AND DETERMINE EARTHWORK ESTIMATES BASED ON ELEVATIONS SHOWN MINUS FINISH MATERIAL THICKNESSES.
- B. IF FIELD GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR INSTRUCTIONS.
- C. THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND THE CITY OF ALBUQUERQUE REQUIRE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP), AN NDPES PERMIT, AND AN EROSION AND SEDIMENT CONTROL (ESC) PERMIT FOR PROJECTS WHERE CONSTRUCTION ACTIVITIES MEET THE EPA THRESHOLD. (SWPPP, NPDES PERMIT, AND ESC PLAN BY OTHERS.) A CURRENT CITY-APPROVED ESC PERMIT MUST BE INCLUDED WITH THE CONTRACTOR'S SUBMITTAL FOR A ROUGH GRADING, GRADING, PAVING, BUILDING, OR WORK ORDER PERMIT. CONTRACTOR SHALL COORDINATE WITH OWNER TO DETERMINE WHO WILL PREPARE SWPPP AND INSPECT REQUIRED ELEMENTS.
- D. IF THE SITE IS SMALL ENOUGH NOT TO REQUIRE A SWPPP/NPDES PERMIT (LESS THAN ONE ACRE), THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR USING EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S) TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PUBLIC RIGHT-OF-WAY.
- MEASURES REQUIRED FOR EROSION AND SEDIMENT CONTROL SHALL BE INCIDENTAL TO THE PROJECT COST.
- WHERE GRADES BETWEEN NEW AND EXISTING ARE SHOWN AS 'MATCH' OR '±'. TRANSITIONS SHALL BE SMOOTH.
- G. PAVEMENT GRADES IN MARKED HANDICAPPED PARKING AREAS SHALL NOT EXCEED 2.0% IN ANY DIRECTION. FOR ALL ACCESSIBLE ROUTES, MAXIMUM ALLOWABLE CROSS SLOPE IS 2.0% AND MAXIMUM LONGITUDINAL SLOPE WITHOUT RAMP IS 5.0%. FOLLOW ALL ADA ACCESSIBILITY GUIDELINES OR CITY CODES, WHICHEVER IS MORE STRINGENT.
- I. ALL EROSION PROTECTION TO BE INSTALLED AS 6" AVG. DIA. ANGULAR FACED ROCK (F.F. ROCK) PLACED OVER GEOTEX 501 NON-WOVEN GEOTEXTILE (O.E.).
- FIRST FLUSH BASIN DESIGN PARAMETERS AND STORMWATER CONTROL MEASURES SHOWN ON THIS PLAN TO BE STRICTLY ADHERED TO FOR CERTIFICATION PURPOSES.
- POST-CONSTRUCTION MAINTENANCE FOR PRIVATE STORMWATER FACILITIES WILL BE THE RESPONSIBLITY OF THE FACILITIES OWNER. PERIODIC INSPECTION AND CERTIFICATIONS OF THE FACILITIES MAY BE REQUIRED BY THE CITY ENGINEER. ENGINEER RECOMMENDS THAT OWNER INSPECT SITE YEARLY AND AFTER EACH RAINFALL TO IDENTIFY NEW AREAS OF EROSION AND INSTALL ADDITIONAL EROSION PROTECTION AS NEEDED BASED ON ACTUAL OCCURRENCES.
- K. FOR ENGINEER'S CERTIFICATION OF SUBSTANTIAL COMPLIANCE (FOR CERTIFICATE OF OCCUPANCY) CONTRACTOR SHALL PROVIDE AN AUTOCAD FORMAT AS-BUILT SURVEY PREPARED BY A LICENSED SURVEYOR WHICH INCLUDES:
- AS-BUILT SPOT ELEVATIONS AT EACH DESIGN SPOT
- ELEVATION SHOWN ON THE APPROVED PLAN; • TOP AND BOTTOM ELEVATIONS AS REQUIRED TO DEFINE THE PERIMETER OF PONDS (TO BE USED BY ENGINEER TO CALCULATE AS-BUILT VOLUME PROVIDED);
- GRADING OF FIRST FLUSH BASINS WILL BE INSPECTED AS PART OF ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY. DURING LANDSCAPING, FIRST FLUSH BASINS WILL BE SMOOTHLY INTEGRATED INTO LANDSCAPING WHILE MAINTAINING REQUIRED TOP AND BOTTOM ELEVATION. VOLUME AND INLET / OVERFLOW ELEVATIONS.

CALCULATIONS

CALCULATIONS: 6th & Lomas : March 20, 2017							
Based on Drainage Design Criteria for City of Albuquerque							
Section 22.2, DPM, Vol 2, dated Jan., 1993							
ON-SITE CALCULATIONS: 100-YEAR, 6-HOUR STORM							
AREA OF S	SITE:	19423	SF	=	0.45		
HISTORIC FLOWS:							
		Treatment SI	%				
Area A	=	0	0%				
Area B	=	0	0%				
Area C	=	11654	60%				
Area D	=	7769.3616	40%				
`otal Area	=	19423.404	100%	-			
DEVELOPED FLOWS:							
		Treatment SI	%	EXCESS PRE	CIP:		
Area A	=	0	0%	Precip. Zone	2		
Area B	=	971	5%	EA =	0.53		
Area C	=	1942	10%	Ев =	0.78		
Area D	=	16510	85%	Ec =	1.13		
'otal Area	=	19423.404	100%	E _D =	2.12		
On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)							
Weighted E = $\underline{E_A A_A + E_B A_B + E_C A_C + E_D A_B}$				<u>c + EdAd</u>			
		$A_A + A_B + A_C + A_D$					
Historic	=	1.53	in.	Developed E	=	1.95 in	
On-Site Vol	ume of]	Runoff: V360	=	E*A / 12			
Historic V	=	2470	CF	Developed V ₃₆	=	3163 C	
On-Site Peak Discharge Rate: $Qp = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D / 43,560$							
For Precipitation Zo 2							
QpA	=	1.56		QpC	=	3.14	
Qpв	=	2.28		QpD	=	4.70	
Historic Ç	=	1.7	CFS	Developed Q _p	=	2.0 CI	



SMOOTH CONCRETE -FINISH AT EXPOSED BACK OF CURB

ROCK EROSION PROTECTION -TO BE FLUSH WITH OPENING (DO NOT BLOCK FLOW)

GENERAL NOTES

CURB OPENING

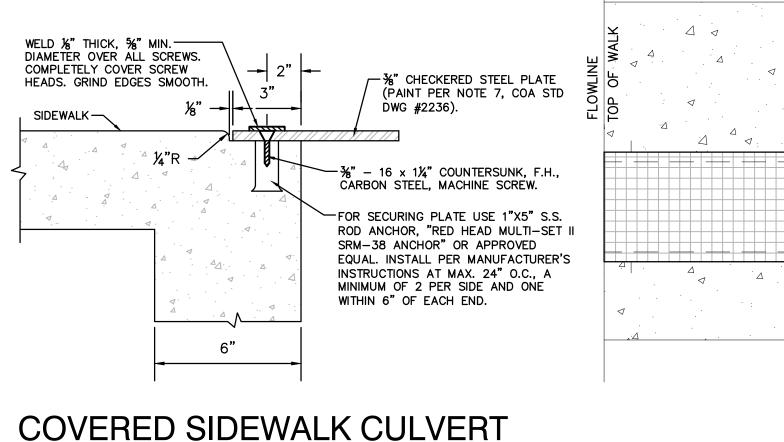
X **KEYED NOTES**

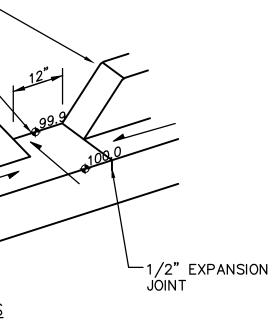
- CONSTRUCT CONCRETE DRIVEPAD PER CITY OF ALBUQUERQUE STANDARD DETAIL 2425.
- SEE ARCHITECTURAL FOR DETAILS. CONSTRUCT CONCRETE DUMPSTER PAD AND ENCLOSURE AT
- INLET TO SAS SYSTEM. SEE ARCHITECTURAL FOR ENCLOSURE DETAILS.
- NOTE RELATIONSHIP TO ADJACENT ASPHALT PAVEMENT VARIES. 12" WIDE (BOTTOM WIDTH) CURB OPENING PER DETAIL THIS SHEET.
- DEPRESS LANDSCAPING THIS AREA 6"± TO HARVEST STORMWATER.
- SHOWN. 8. ALL ACCESSIBLE RAMPS, WALKS AND HC PARKING AREAS TO
- BE ADA COMPLIANT. 9. ALL ROOF DISCHARGE TO BE RELEASED VIA DOWNSPOUTS TO LANDSCAPED FIRST FLUSH BASIN.
- 10. CONSTRUCT 18" WIDE (BOTTOM WIDTH) COVERED SIDEWALK CULVERT WITH STEEL PLATE TOP AT ELEVATIONS SHOWN PER C.O.A. STD. DWG. 2236. ANCHOR STEEL PLATE TOP PER DETAILS THIS SHEET. SEE S.O.19 PERMIT REQUIREMENTS THIS SHEET.

S.O.19 : NOTICE TO CONTRACTORS

1		XCAVATION / CONSTRUCTION PE RE BEGINNING ANY WORK WITHIN			
2	AS C CONS STAN	WORK DETAILED ON THESE PLAN OTHERWISE STATED OR PROVIDED STRUCTED IN ACCORDANCE WITH DARD SPECIFICATIONS FOR PUBL EDITION AS REVISED THROUGH			
3	MUST	WORKING DAYS PRIOR TO ANY E CONTACT NEW MEXICO ONE CA TION OF EXISTING UTILITIES.			
4	VERIF CONS SHAL	R TO CONSTRUCTION, THE CONTR TY THE HORIZONTAL AND VERTIC STRUCTIONS. SHOULD A CONFLIC L NOTIFY THE ENGINEER SO THA PLVED WITH A MINIMUM AMOUNT			
5	BACK USE.	FILL COMPACTION SHALL BE AC			
6	MAINTENANCE OF THESE FACILITIES S OF THE OWNER OF THE PROPERTY S				
7	WORK ON ARTERIAL STREETS SHALL 24-HOUR BASIS.				
8	THE WORK IN THE CITY ROW MUST B THE CONTRACTOR MUST CONTACT JA AND CONSTRUCTION COORDINATION A INSPECTIONS.				
APPROVAL		NAME			
INSPECTOR					

CONSTRUCT PER C.O.A. STD. DWG. 2236 MODIFIED AS FOLLOWS: • MODIFIED SECTION B-B FOR SECURING PLATE (SEE ABOVE).





1. EDGES NOT SPECIFICALLY DIMENSIONED SHALL BE SHAPED WITH A 3/8" EDGING TOOL.

N.T.S.

S.O.19 PERMIT REQUIRED

CONSTRUCT ASPHALT PARKING AREA AT ELEVATIONS SHOWN.

ELEVATIONS SHOWN. SEE UTILITY PLAN FOR FLOOR DRAIN

CONSTRUCT NEW CONCRETE WALK TO ELEVATIONS SHOWN.

CONSTRUCT FIRST FLUSH RETENTION BASIN AT ELEVATIONS

ERMIT WILL BE REQUIRED N THE CITY RIGHT-OF-WAY.

NS TO BE PERFORMED. EXCEPT D FOR HEREON, SHALL BE THE CITY OF ALBUQUERQUE LIC WORKS CONSTRUCTION, UPDATE #8.

EXCAVATION, THE CONTRACTOR ALL SYSTEM (CALL '811') FOR

RACTOR SHALL EXCAVATE AND CAL LOCATIONS OF ALL T EXIST, THE CONTRACTOR AT THE CONFLICT CAN BE OF DELAY.

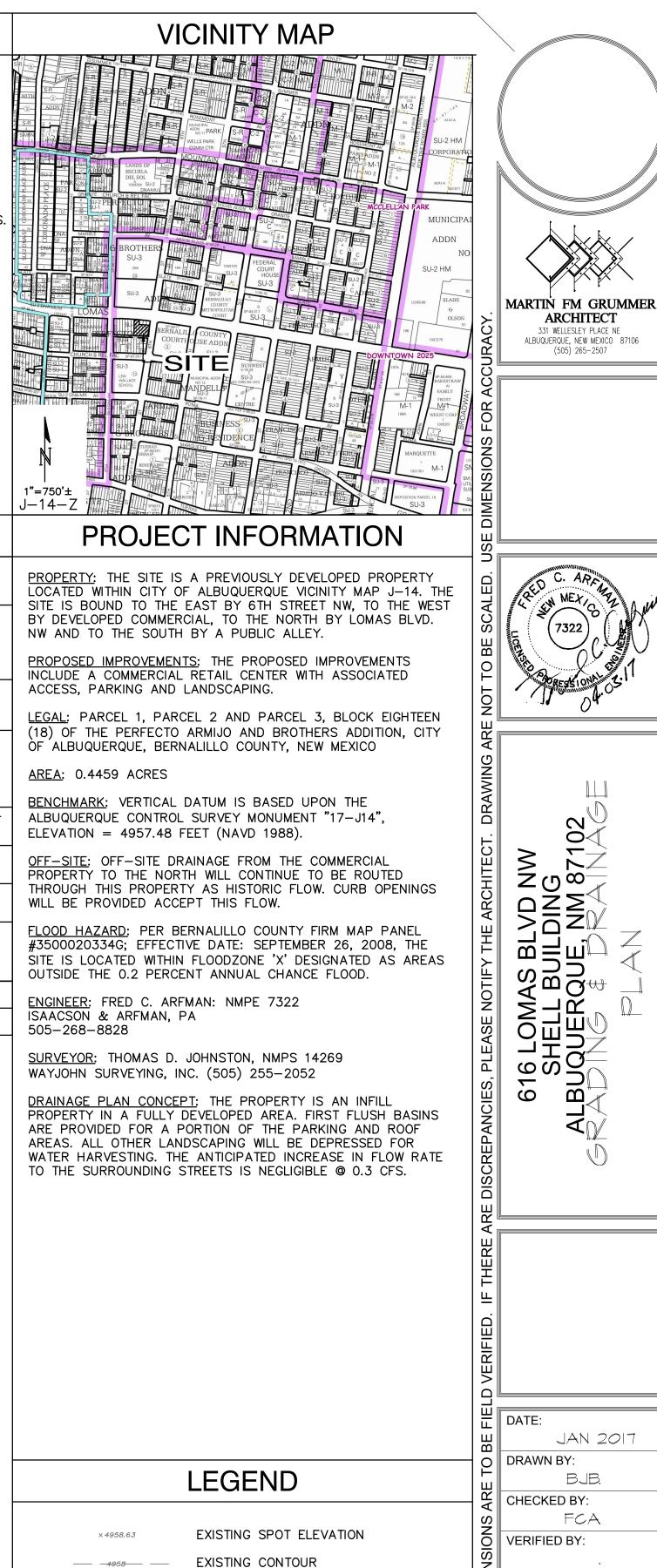
CORDING TO TRAFFIC / STREE

SHALL BE THE RESPONSIBILITY SERVED.

BE PERFORMED ON A

BE INSPECTED AND ACCEPTED. ASON RODRIGUEZ AT 235-8016 AT 924-3416 TO SCHEDULE

DATE



PROPOSED CONTOUR (0.5' INCREMENT)

PROPOSED CONTOUR (0.1' INCREMENT)

PROPOSED SPOT ELEVATION

LIMITS OF EROSION CONTROL

FINISH FLOOR ELEVATION

FLOW ARROW

FF = 4958.00

REVISIONS

SHEET NO.

CG1

