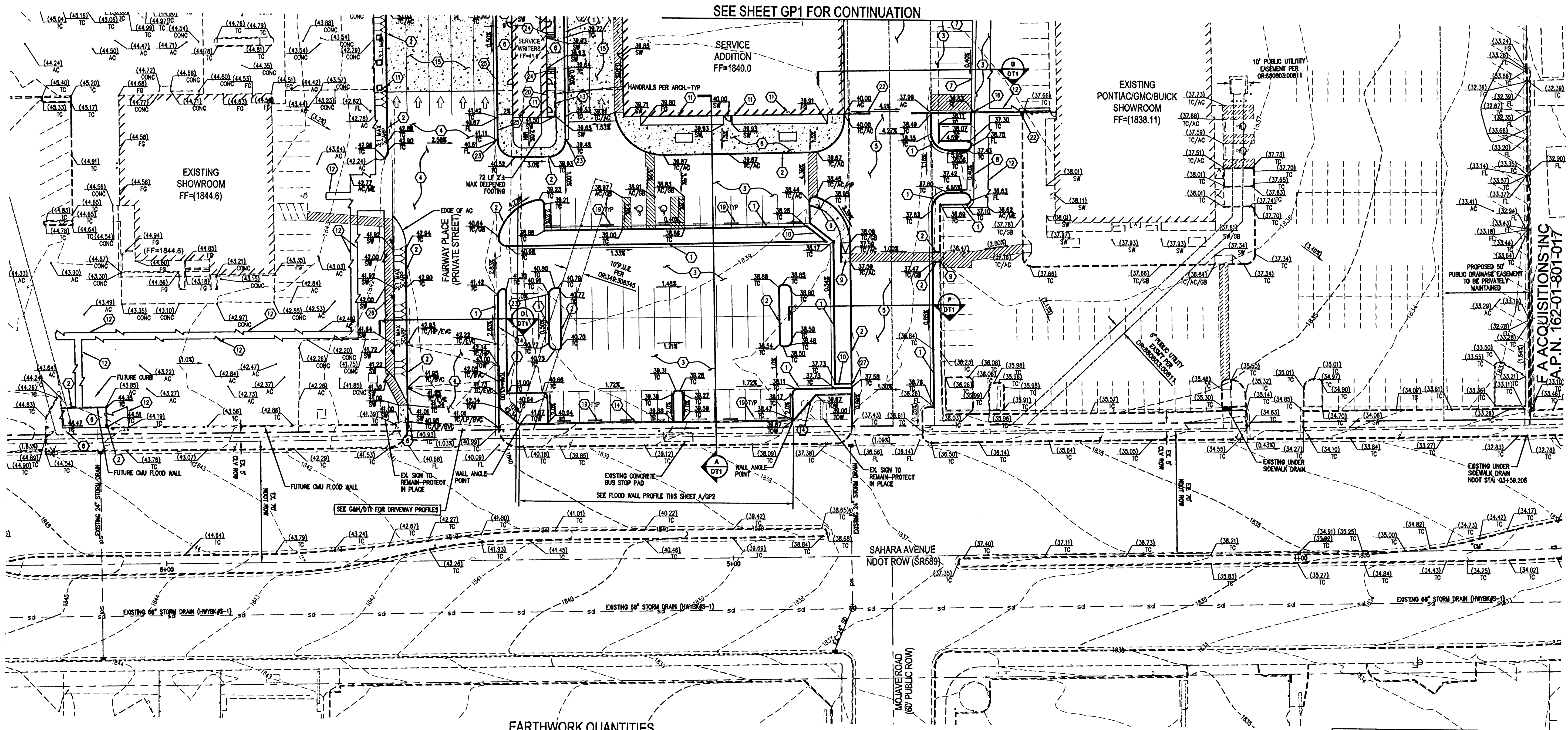




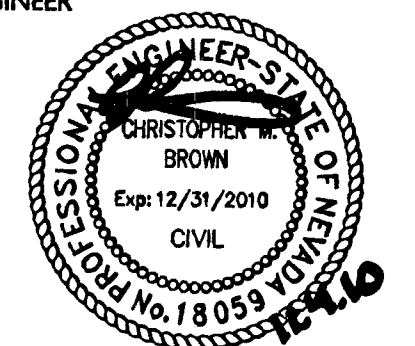
SEE SHEET GP1 FOR CONTINUATION

Service Building Addition
Construction Documents
3105 and 3120 East Sahara Ave
Las Vegas, Nevada 89104

APTUS
1200 South 4th Street
Suite 206
Las Vegas, Nevada 89104
P 702.839.1200
F 702.839.1213

APTUS PROJECT NO. 10.069
ARCHITECT

ENGINEER



NOTES

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NO.	DESCRIPTION	DATE
1	ISSUED	
2	GRADING PLAN 2	
3	H 39923	
4	107V 5521-BAD	
5	DRAWING NO.	
6	SHEET 11 OF 12	

GP2

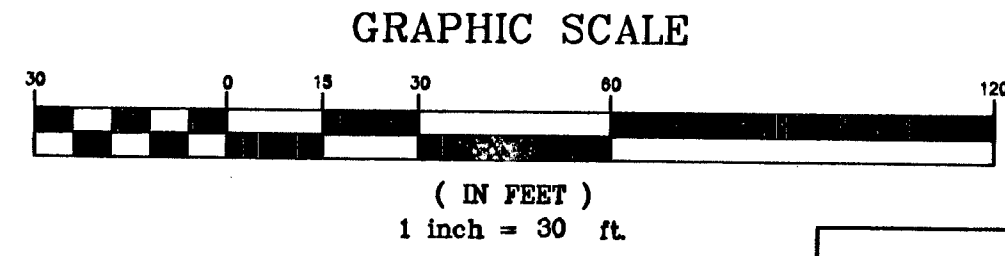
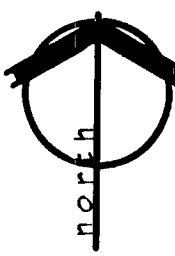
EARTHWORK QUANTITIES

NOTE: THESE QUANTITIES ARE APPROXIMATE AND AREA RAW VOLUMES ONLY. OVER EXCAVATION, SUBSIDENCE, SHRINKAGE AND BUILDING FACTORS, ARE NOT INCLUDED AS PART OF THESE EARTHWORK QUANTITIES.

CUT (NET)	231 CUBIC YARDS
FILL (NET)	745 CUBIC YARDS
NET	514 CUBIC YARDS (FILL)

FLOOD ZONE NOTE

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NUMBER 32003C 2100, CLARK COUNTY, NEVADA, DATED SEPTEMBER 27, 2002, THE SITE LIES WITHIN A FEMA DESIGNATED ZONE "X". A ZONE "X" IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.



CONSTRUCTION NOTES:

1. CONSTRUCT 12" TYPE CURB & GUTTER PER COASD #218
2. CONSTRUCT ON SITE 4" CUB PER DETAIL ON SHEET D11
3. INSTALL 2.5" AC PAVEMENT OVER 4" TYPE II AGG. BASE
4. INSTALL 3" AC PAVEMENT OVER 6" TYPE II AGG. BASE
5. INSTALL 3.5" AC PAVEMENT OVER 8" TYPE II AGG. BASE
6. INSTALL CONCRETE SIDEWALK PER COASD #234
7. INSTALL 2" CONCRETE VALLEY GUTTER PER DETAIL ON SHEET D11
8. INSTALL 3" CONCRETE VALLEY GUTTER PER DETAIL ON SHEET D11
9. CONSTRUCT SIDEWALK RAMP USING 1800R TIE TRUNCATED DOMES OR EQUIVALENT PER COASD #234, CASE 3-SEE DETAIL ON SHEET D11
10. INSTALL 3" WIDE FLUME PER DETAIL ON SHEET D11
11. APPROXIMATE LOCATION OF ROOF DRAINS. SEE PLUMBING PLANS
12. SAWCUT AND MATCH EXISTING PAVEMENT
13. CONSTRUCT 1.8" MAX TURN-DOWN SIDEWALK
14. CMU FLOOD WALL PER STRUCTURAL PLANS
15. INSTALL 7" BLACK CONCRETE 1/4" @ 12" O.C. OVER 6" TYPE II AGG. BASE. CONTROL JOINTS ARE TO BE SPACED AT 10' MAX INTERVALS, EACH DIRECTION
16. 48"x18" CMU BLOCK OPENING PER DETAIL ON SHEET D11
17. INSTALL CMU RETAINING WALL. SEE STRUCTURAL PLANS
18. INSTALL CONCRETE BUNKER BLOCKS PER COASD #238
20. CONSTRUCT DEEPENED FOOTING-SEE PLAN FOR MAX DEPTH
21. CONSTRUCT (3) 6" CONCRETE STEPS
22. CONSTRUCT CMU SCREEN WALL PER SBO REGIONAL STANDARD DRAWINGS, B-100-1
23. TOP-OUT 1" CUB PER DETAIL ON SHEET D11
24. CONSTRUCT (4) 5" CONCRETE STEPS
25. INSTALL 6" TYPE 'A' CURB PER DETAIL ON SHEET D11
26. CONSTRUCT 2.5" AC OVER 4" TYPE II AGG. 5' WIDE TEMPORARY AC SIDEWALK
27. CONSTRUCT 2" IF DEEPENED CURB
28. CONSTRUCT (7) 5" CONCRETE STEPS

NOTE: ALL HANDICAP ACCESS ROUTES ARE AT A MAXIMUM OF SIX DOWN SLOPE AND 2% CROSS SLOPE & 2% IN DIRECTION CHANGE.

DRAINAGE STUDY COMPLIANCE

I, CHRISTOPHER M. BROWN, HEREBY CERTIFY THAT THIS GRADING PLAN CONFORMS TO THE APPROVED DRAINAGE STUDY ON FILE WITH THE CITY OF LAS VEGAS 104439

CHRISTOPHER M. BROWN
NEVADA P.E. NO. 18059
DATE: 11.4.10

GEOTECHNICAL:

GEOTECHNICAL EVALUATION PREPARED BY NINYO & MOORE SEPTEMBER 25, 2008 & UPDATED JUNE 21, 2010, WORK ORDER NO. 302142001

DISCLAIMER NOTE

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREIN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. ALL DISCREPANCIES MUST BE IMMEDIATELY REPORTED TO THE ENGINEER. CALL BEFORE YOU DIG 1-800-227-2800.

Call before you Dig
1-800-227-2800
1-702-227-2929

Call before you Dig
1-800-227-2800
1-702-455-7644

Call before you Dig
1-800-227-2800
1-702-227-2929

BASIS OF BEARING

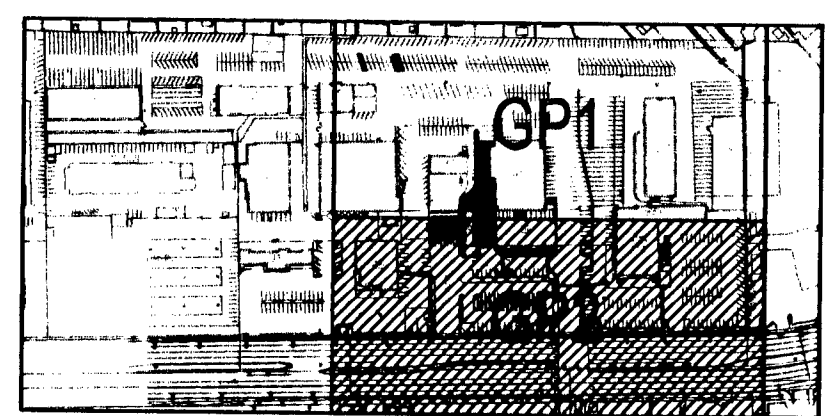
THE BASIS OF BEARINGS FOR THIS SURVEY IS THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 1, T. 21 N., R. 81 E., M.D.M. TAKEN AS N88°15'15"W AS SHOWN ON PARCEL MAP BOOK 114, PAGE 13, RECORDED IN THE OFFICIAL RECORDS OF CLARK COUNTY, NEVADA ON JUNE 14, 2007.

LEGAL DESCRIPTION

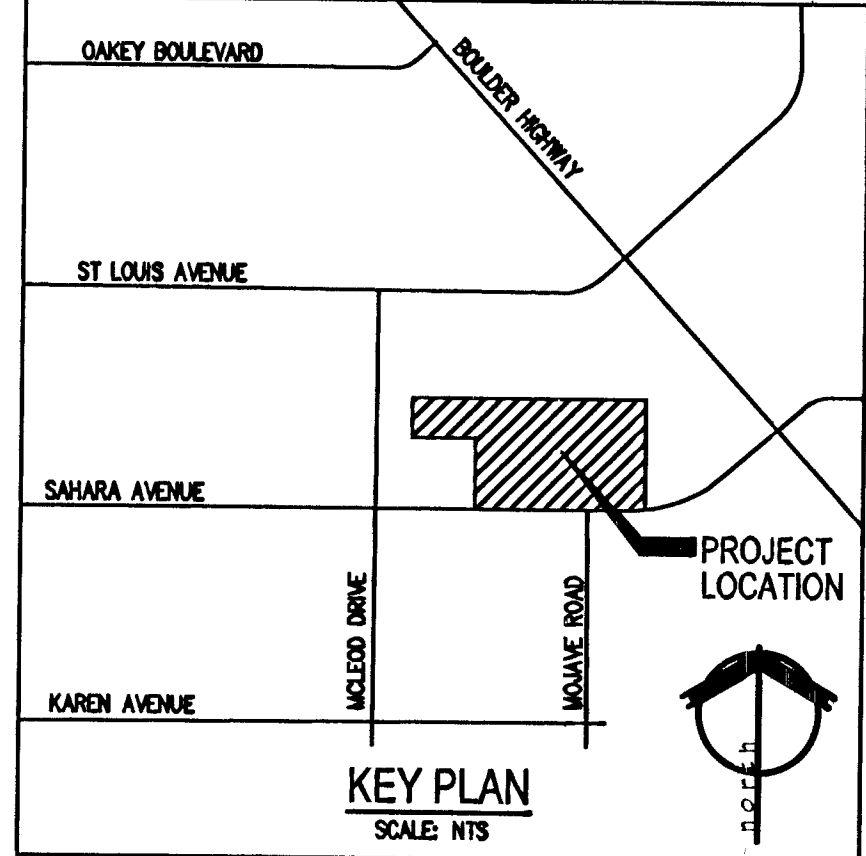
BEING LOT 1 OF PARCEL MAP BOOK 114, PAGE 13 LYING WITHIN A PORTION OF THE (SE 1/4) OF SECTION 1, TOWNSHIP 21 SOUTH, RANGE 81 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

BENCHMARK

BEING CITY OF LAS VEGAS BENCHMARK 0611154 A RIVET & PLATE IN TOP OF CURB @ NE CORNER OF SAHARA AVENUE & MOLEDO DRIVE, TAKEN AS ELEVATION 564.85750 (METERS), NAVD83 1883.20 FEET.



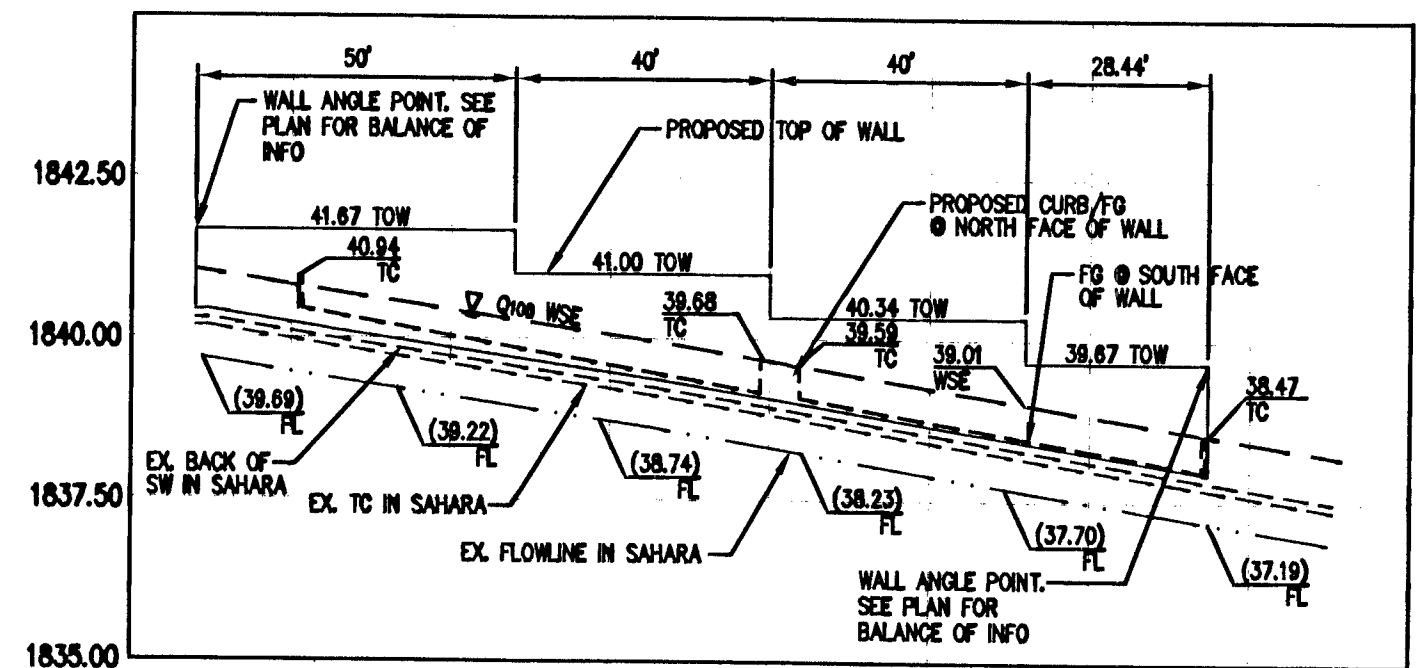
KEY PLAN
SCALE: NONE



KEY PLAN
SCALE: NTS

LEGEND

EXISTING	PROPOSED
RIGHT-OF-WAY	---
PROPERTY LINE	---
STREET CENTER LINE	---
BUILDING	---
CURB & GUTTER	---
EDGE OF PAVEMENT	---
FENCE/RETAINING WALL	---
MINOR CONTOUR	2631
MAJOR CONTOUR	2630
SAWCUT	---
GRADE BREAK OR HIGH POINT	OB/P
SLOPE & DIRECTION	8.80%
ELEVATION	87.82
AC SHALE	---



FLOOD WALL PROFILE

SCALE: 1" = 30' (H)
1" = 3' (V)

125384