

THIS PROJECT, LOCATED UPSTREAM OF THE ZUNI/SAN MATEO INTERSECTION IN THE SOUTHEAST HEIGHTS OF THE ALBUQUERQUE METROPOLITAN AREA, REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE PURPOSE OF THIS PROJECT IS TO CREATE AN ATTACHED BUILDING ADDITION ALONG WITH A DETACHED BUILDING ADDITION TO THIS HEALTHCARE FACILITY SITE.

THIS SUBMITTAL IS MADE IN SUPPORT OF A BUILDING PAVING PERMIT APPROVAL WITHIN THE JURISDICTION OF THE CITY OF ALBUQUERQUE.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF ZUNI ROAD SE AND PALOMAS DRIVE SE. THE CURRENT LEGAL DESCRIPTION IS PARCEL A1A, HOLLINGBERRY'S REPLAT OF BLOCK 6, BARON BURG HEIGHTS ADDITION. AS SHOWN BY PANEL 354 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, SEPTEMBER 26, 2008, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. THE SITE DOES, HOWEVER, LIE IMMEDIATELY ADJACENT TO A DESIGNATED FLOOD HAZARD ZONE (AO DEPTH 1) THAT COINCIDES WITH ZUNI ROAD SE. ALTHOUGH THE PROPOSED IMPROVEMENTS WILL GENERATE ADDITIONAL RUNOFF THAT WILL CONTRIBUTE TO THE DESIGNATED FLOOD HAZARD ZONE, THE INCREASE IS MINIMAL. IN ADDITION, THE SITE IS LOCATED AT THE BOTTOM OF THE WATERSHED CONTRIBUTING TO SAN MATEO BLVD SE. DETENTION ON A SITE THAT ALREADY HAS FREE DISCHARGE WOULD BE OF LITTLE TO NO BENEFIT.

III. BACKGROUND DOCUMENTS

THE PREPARATION OF THIS PLAN RELIED UPON THE FOLLOWING DOCUMENTS AND ACTIVITIES:

• RECORD GRADING AND DRAINAGE PLAN PREPARED BY THIS OFFICE (NMPE 8547) DATED 09-28-89 AND UPDATED 04-09-2002. THIS REFERENCED PLAN PROVIDES THE BASIS FOR THE EXISTING CONDITIONS OF THE PROJECT SITE AS WELL AS ESTABLISHING THE PRECEDENT FOR FREE DISCHARGE

• VISUAL SITE INSPECTION ON DECEMBER 20, 2010 TO VERIFY EXISTING CONDITIONS AND OBTAIN SUPPLEMENTAL SITE DATA.

IV. EXISTING CONDITIONS

THE SITE PRESENTLY CONSISTS OF AN EXISTING HEALTHCARE FACILITY. THE SITE IS CHARACTERIZED BY THREE (3) DRAINAGE BASINS. BASIN 1 LIES AT THE WEST SIDE OF THE SITE AND FREELY DISCHARGES ITS RUNOFF TO ZUNI ROAD SE VIA AN EXISTING DRIVEPAD. ZUNI ROAD SE DRAINS FROM EAST TO WEST AND FLOWS TO SAN MATEO BLVD SE. FROM THIS POINT, RUNOFF IS CARRIED WITHIN SAN MATEO BLVD SE TO THE NORTH BOTH IN PUBLIC STORM DRAIN IMPROVEMENTS AS WELL AS SURFACE FLOW. BASIN 2 LIES AT THE NORTHEAST CORNER OF THE SITE AND DISCHARGES ITS RUNOFF TO PALOMAS DRIVE SE VIA A SIDEWALK CULVERT. FROM THIS POINT, THE RUNOFF FLOWS NORTH TO ZUNI ROAD SE. BASIN 3 LIES AT THE SOUTHEAST CORNER OF THE SITE AND DRAINS TO PALOMAS BLVD SE VIA AN EXISTING DRIVEPAD. PORTIONS OF THE PARKING LOT WITHIN BASIN 3 ARE FLAT WITH LOCALIZED PONDING ADDRESSED BY EXISTING FRENCH DRAIN INLETS LOCATED IN SUMP CONDITIONS.

NO APPARENT OFFSITE FLOWS ENTER THE SITE CONSISTENT WITH THE 1989 DRAINAGE SUBMITTAL.

V. DEVELOPED CONDITIONS

THE PROPOSED CONSTRUCTION CONSISTS OF A STAND ALONE BUILDING ADDITION WITHIN BASIN 1 AND AN ATTACHED BUILDING ADDITION WITHIN BASIN 2. NO WORK IS PROPOSED WITHIN BASIN 3.

THE BASIN 1 BUILDING ADDITION WILL OCCUPY A PORTION OF THE SITE THAT PRESENTLY CONTAINS COMPACTED SOIL AND CONCRETE SIDEWALK. THE ROOF DRAINAGE FROM THE PROPOSED ADDITION WILL DISCHARGE TO THE SOUTH WHERE IT WILL BE DIRECTED BY SURFACE FLOW TO THE EXISTING PARKING LOT OF THE WEST SIDE OF THE SITE. FROM THIS POINT, THE RUNOFF WILL SURFACE DRAIN TO ZUNI ROAD SE DISCHARGING VIA AN EXISTING DRIVEPAD.

THE BASIN 2 ADDITION WILL OCCUPY A PORTION OF THE SITE THAT IS PRESENTLY LANDSCAPED. THE ROOF DRAINAGE FROM THE ADDITION WILL DISCHARGE TO THE EXISTING PARKING LOT AT THE EAST EDGE OF THE SITE. FROM THIS POINT, THE RUNOFF WILL DRAIN TO PALOMAS DRIVE SE VIA AN EXISTING SIDEWALK CULVERT. ROOF RUNOFF FROM THE EXISTING BUILDING WILL BE INTERCEPTED AND DIVERTED NORTH TO DISCHARGE TO AN EXISTING LANDSCAPED AREA ON THE NORTH SIDE OF THE BUILDING. TO AVOID THE DISCHARGE OF ROOF RUNOFF ACROSS THE SIDEWALK, THE ROOF DISCHARGE WILL BE COLLECTED IN A CONCRETE RUNDOWN THAT WILL DISCHARGE TO ZUNI ROAD VIA A NEW 24-INCH SIDEWALK CULVERT.

VI. GRADING PLAN

THE GRADING PLAN SHOWS THE PROPOSED AREAS OF MODIFICATION. CROSS REFERENCING ENLARGED DETAILS ON A SUBSEQUENT SHEET. THE GRADING PLAN DETAILS SHOW 1.) EXISTING CONDITIONS AS DOCUMENTED BY THE PREVIOUSLY APPROVED GRADING PLAN, 2.) PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 3.) THE LIMIT AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS, AND 4.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. AS SHOWN BY THIS PLAN, THE PROPOSED GRADING WILL CONTINUE THE CURRENT DRAINAGE PATTERNS OF DISCHARGE TO THE ADJACENT CITY STREETS.

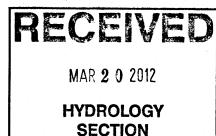
VII. CALCULATIONS

THE CALCULATIONS CONTAINED HEREON ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR. 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2. DESIGN CRITERIA, DATED JANUARY 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS DEMONSTRATED BY THESE CALCULATIONS, THE PROPOSED PROJECT WILL RESULT IN A MINOR INCREASE IN THE RUNOFF GENERATED BY THE OVERALL SITE. THIS WILL HAVE A NEGLIGIBLE IMPACT ON THE DOWNSTREAM CONDITIONS DESCRIBED ABOVE.

VIII. CONCLUSIONS

THE FOLLOWING CONCLUSIONS HAVE BEEN ESTABLISHED AS A RESULT OF THE EVALUATIONS CONTAINED

- 1. THE PROPOSED IMPROVEMENTS REPRESENT MODIFICATIONS TO AN EXISTING SITE WITHIN AN INFILL
- 2. THE PROPOSED IMPROVEMENTS WILL MAINTAIN EXISTING DRAINAGE PATTERNS 3. THE PROPOSED DRAINAGE PATTERNS ARE CONSISTENT WITH THE PREVIOUSLY APPROVED DRAINAGE
- PLANS FOR THIS SITE 4. THE PROPOSED IMPROVEMENTS WILL CREATE A NEGLIGIBLE INCREASE IN RUNOFF GENERATED BY THE
- 5. THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR
- DOWNSTREAM DRAINAGE CONDITIONS
- 6. THE FREE DISCHARGE OF DEVELOPED RUNOFF IS APPROPRIATE BASED UPON THE PRECEDENT ESTABLISHED BY PRIOR SUBMITTALS



9 D = D =	
B. $P_{100, 6 HR} = P_{360} = 2.60$	
C. TOTAL PROJECT AREA $(A_T) = 47,250 \text{ SF}$	
1.08 AC	
1. BASIN 1 18,850 SF	
0.43 AC	
2. BASIN 2 17,200 SF	
0.39 AC	
3. BASIN 3 11,200 SF	
0.26 AC	

D. LAND TREATMENTS

CALCULATIONS

1. EXISTING LAND TREATMENT a. BASIN 1 TREATMENT AREA (SF/AC) 0 0.00

4,150 / 0.10

14,700 / 0.34

0 0.00

b. BASIN 2 TREATMENT AREA (SF/AC) 0 0.00 2,690 / 0.06 0 0.00 14,510 / 0.33

c. BASIN 3 TREATMENT AREA (SF/AC) 0 0.00 1,930 / 0.04 0 0.00 9,270 / 0.21

2. DEVELOPED LAND TREATMENT

a. BA	SIN 1	TREATMENT	AR	EA (SF/AC)
		A		0 0.00
		B 1	그리고 경험적으로	3,960 / 0.09
		C		0 0.00
		D		14,900 / 0.34
b. BA	SIN 2	TREATMENT	AR	EA (SF/AC)

BASIN 2	TREATMENT	AREA (SF/	AC)	%	
	Α	0	0.00		
	В	1,810	0.04	11	
	C	0	0.00	•	
in same	D ,	15,390	7 0.35	(a) 89	Ú١

c. BASIN 3 TREATMENT	AREA (SF/AC)	
	0 0.00	
tyang ng kalang at B anggapag da	1,930 / 0.04	
	0 : 0.00	
n e e e e e e e e e e e e e e e e e e e	0.070 / 0.04	1000

I. HYDROLOGY

A. EXISTING CONDITION

1. BASIN 1

a. VOLUME EW = (EAA+EBAB+ECAC+EDAD)/AT $(0.66^{\circ}0.00) + (0.92^{\circ}0.10) + (1.29^{\circ}0.00) + (2.36^{\circ}0.34)/0.43 = 2.04 \text{ IN}$ V100 6 HP = (EW/12)AT = (2.04/12)0.43 =0.0736 AC-FT = 3.200 CF

b. PEAK DISCHARGE $Q_{P} = Q_{PA}A_{A} + Q_{PB}A_{B} + Q_{PC}A_{C} + Q_{PD}A_{D}$ $Q_P = Q_{100} = (1.87^{\circ}0.00) + (2.60^{\circ}0.10) + (3.45^{\circ}0.00) + (5.02^{\circ}0.34) =$

2. BASIN 2

a. VOLUME $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) A_T$

 $(0.66^{\circ}0.00) + (0.92^{\circ}0.06) + (1.29^{\circ}0.00) + (2.36^{\circ}0.33)/0.39 = 2.13 \text{ IN}$ $V_{100.6 \text{ HR}} = (E_W/12)A_T = (2.13/12)0.39 =$ 0.0701 AC-FT = 3,050 CF

b. PEAK DISCHARGE $Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

$Q_p = Q_{100} = (1.87^{\circ}0.00) + (2.60^{\circ}0.06) + (3.45^{\circ}0.00) + (5.02^{\circ}0.33) =$

3. BASIN 3

a. VOLUME

 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$ $(0.66^{\circ}0.00) + (0.92^{\circ}0.04) + (1.29^{\circ}0.00) + (2.36^{\circ}0.21)/0.26 = 2.11 \text{ IN}$

0.0452 AC-FT = 1,970 CF $V_{100.6 \text{ HR}} = (E_W/12)A_T = (2.11/12)0.26 =$

b. PEAK DISCHARGE

 $Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$ $Q_P = Q_{100} = (1.87^{\circ}0.00) + (2.60^{\circ}0.04) + (3.45^{\circ}0.00) + (5.02^{\circ}0.21) =$

1.2 CFS

1.9 CFS

1.8 CFS

b. PEAK DISCHARGE

 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) A_T$

B. DEVELOPED CONDITION

a. VOLUME

1. BASIN 1

 $(0.66^{\circ}0.00) + (0.92^{\circ}0.09) + (1.29^{\circ}0.00) + (2.36^{\circ}0.34)/0.43 = 2.06 \text{ IN}$ $V_{100.6 \text{ HP}} = (E_W/12)A_T =$ (2.06/12)0.43 =0.0743 AC-FT = 3.240 CF

$Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

$Q_P = Q_{100} = (1.87^{\circ}0.00) + (2.60^{\circ}0.09) + (3.45^{\circ}0.00) + (5.02^{\circ}0.34) =$ 2.0 CFS 2. BASIN 2

a. VOLUME $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) A_T$

 $(0.66^{\circ}0.00) + (0.92^{\circ}0.04) + (1.29^{\circ}0.00) + (2.36^{\circ}0.35)/0.39 =$ (2.21/12)0.39 = $V_{100.6 \text{ HR}} = (E_W/12)A_T =$ 0.0727 AC-FT = 3,170 CF

b. PEAK DISCHARGE

 $Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$ $Q_P = Q_{100} = (1.87^*0.00) + (2.60^*0.04) + (3.45^*0.00) + (5.02^*0.35) =$ 1.9 CFS

3. BASIN 3

a. VOLUME $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) A_T$ $(0.66^{\circ}0.00) + (0.92^{\circ}0.04) + (1.29^{\circ}0.00) + (2.36^{\circ}0.21)/0.26 = 2.11 \text{ IN}$ $V_{100.6 HR} = (E_W/12)A_T = (2.11/12)0.26 =$ 0.0452 AC-FT = 1,970 CF

b. PEAK DISCHARGE

 $Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$ $Q_p = Q_{100} = (1.87^*0.00) + (2.60^*0.04) + (3.45^*0.00) + (5.02^*0.21) =$ 1.2 CFS

c. BASIN 3

1. VOLU a. BA			
ΔV ₁₀₀	, 6 HR = 3,240 - 3,200 =	40 CF	(INCREASE
b. BA	SIN 2		
ΔV ₁₀₀	6 HR = 3,170 - 3,050 =	120 CF	(INCREASE)

$\Delta V_{100, 6 HR} = 1,970 - 1,970 =$

2. PEAK DISCHARGE			
a. BASIN 1			
$\Delta Q_{100} = 2.0 - 1.9 =$	47 + 1 47 + 1	0.1 CFS	(INCREA

b. BASIN 2 0.1 CFS (INCREASE)

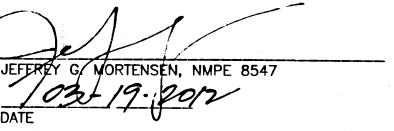
(NO CHANGE)

I, JEFFREY G. MORTENSEN, NMPE 8547. OF THE FIRM HIGH MESA CONSULTING GROUP. HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND DRAINED IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 12-23-2010 WITH EXCEPTIONS AS NOTED BELOW. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY THE UNDERSIGNED AS SUPPLEMENTAL SITE DATA, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED TO IN SUPPORT OF A REQUEST FOR ISSUANCE

THE FOLLOWING EXCEPTION AS NOTED ABOVE IS LISTED BELOW:

. THE NEW SIDEWALK BETWEEN THE EXISTING BUILDING AND THE NEW STAND ALONE BUILDING ADDITION LACKS POSITIVE DRAINAGE TO THE WEST PARKING LOT AS INTENDED BY THE APPROVED PLAN. INSTEAD, THE SIDEWALK DRAINS TO AN EXISTING LANDSCAPED PLANTER WHERE NUISANCE FLOWS WILL BE CONTAINED. ROOF RUNOFF FROM THE EXISTING BUILDING HAS BEEN DIVERTED TO THE WEST AWAY FROM THIS AREA SO THAT THE RUNOFF EXPERIENCED BY THIS AREA WILL BE LIMITED TO WHAT FALLS UPON IT.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THIS CERTIFICATION DOES NOT ADDRESS ADA COMPLIANCE WHICH IS BEYOND THE SCOPE OF GRADING AND DRAINAGE. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE



ENGINEER'S DRAINAGE CERTIFICATION

OF A CERTIFICATE OF OCCUPANCY.

USING IT FOR ANY OTHER PURPOSE.



CONSTRUCTION NOTES

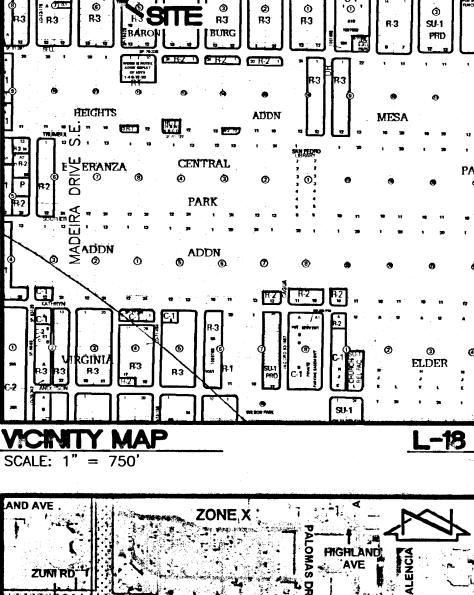
- 1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 (ALBUQUERQUE AREA), 1-800-321-ALERT(2537) (STATEWIDE), FOR LOCATION OF EXISTING UTILITIES.
- 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
- 3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS. RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 4. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED. EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7, AMENDMENT 1
- 5. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS. THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN. THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES. PIPELINES. OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE. THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES. RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- 6. THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE BUILDING(S) SHALL BE PROVIDED WITH POSITIVE DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.
- 7. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- 8. BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE. 9. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY

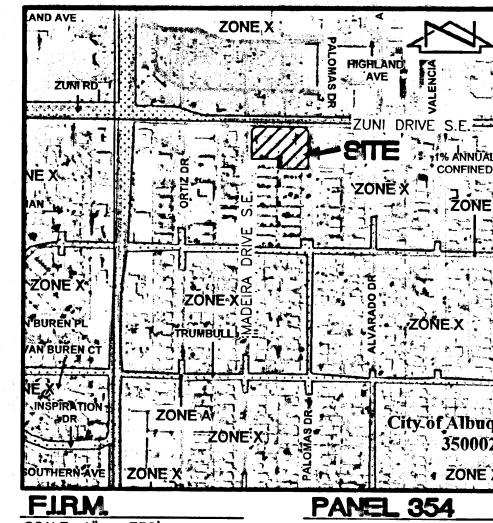
OF THE OWNER OF THE PROPERTY SERVED.

		·	_
APPROVALS	NAME	DATE	
HYDROLOGY			
SIDEWALK INSPECTOR			حققي
STORM DRAIN MAINTENANCE	MARTIN PACHEGO VIA E-MAIL	03/12/2012	

EROSION CONTROL MEASURES

- . THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE
- 2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
- 3. WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.





SCALE: 1" = 750'DATED: SEPTEMBER 26, 2008 LEGAL DESCRIPTION (FROM A.G.I.S.)

PARCEL A1A, HOLLINGBERRY'S REPLAT OF BLOCK 6, BARON BURG PROJECT BENCHMARK (FROM 1989 PLAN)

ACS BM STA 8-K18, A SQUARE '['CHISELED ON TOP OF CURB LOCATED AT THE SSE RETURN AT THE INTERSECTION OF COAL AVE. S.E. AND SAN MATEO BLVD S.E. ELEVATION = 5262.15 FT (MSLD)

FOR T.B.M.'S. SEE SHEET 2

T.R.M.

INDEX OF DRAWINGS

DRAINAGE PLAN AND CALCULATIONS GRADING AND DRAINAGE PLAN (ORIGINAL) GRADING PLAN DETAILS (UPDATE)

RECORD DRAWING LEGEND RECORD INFORMATION (VERIFIED BY ENGINEER) AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY ENGINEER) 38 42" RECORD INFORMATION (VERIFIED BY ENGINEER) +252 RECORD INFORMATION (VERIFIED BY ENGINEER) RECORD INFORMATION (VERIFIED BY ENGINEER)

AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY AS-BUILT SURVEY) RECORD INFORMATION FROM AS-BUILT SURVEY 32 31.8

+28.9 RECORD INFORMATION FROM AS-BUILT SURVEY @ 31,25.22 RECORD INFORMATION FROM AS-BUILT SURVEY



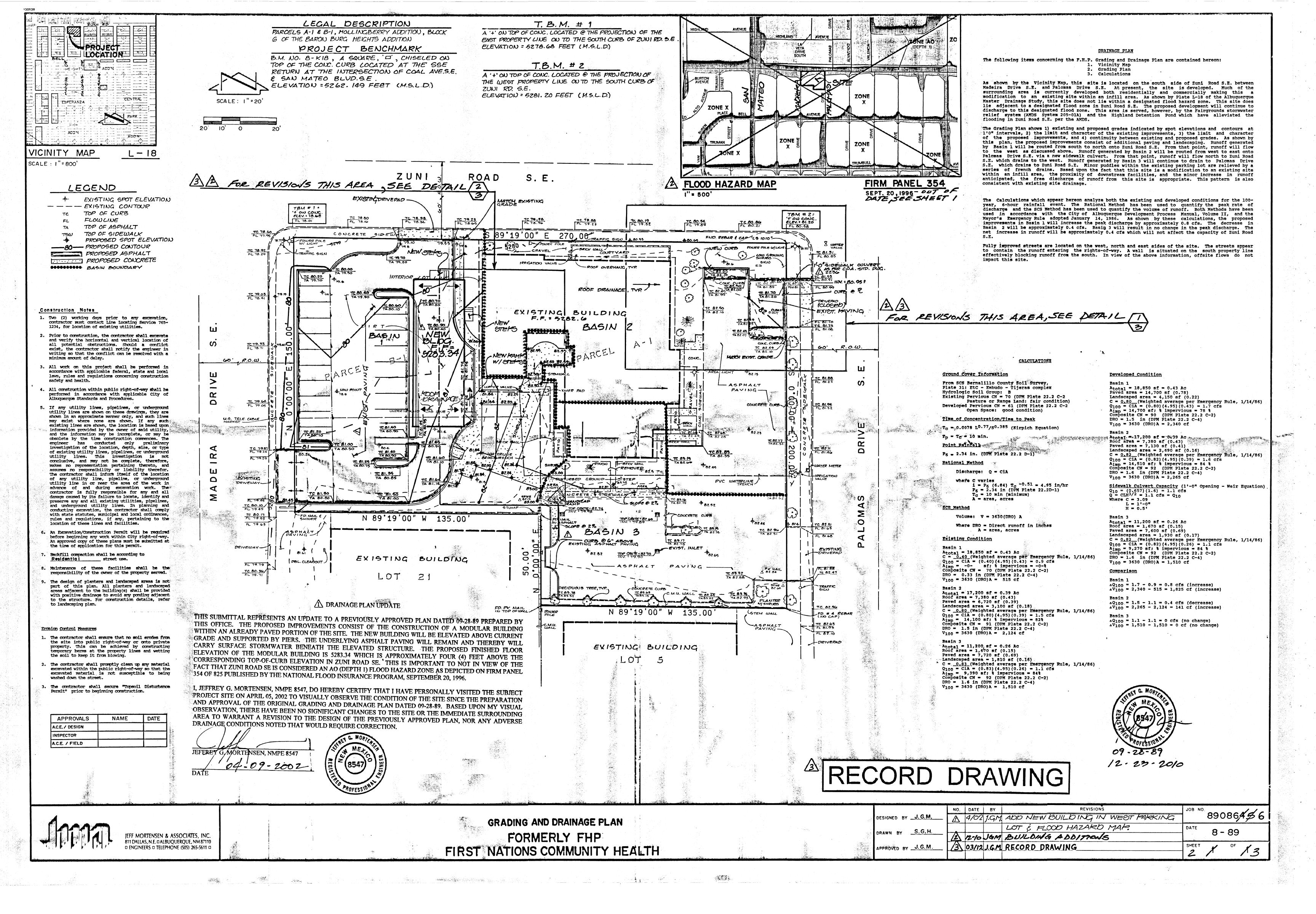
RECORD DRAWING

89.086.56 13\ 03/12 J.G.M. RECORD DRAWING AND CERTIFICATION __C.F.A./E.J 12-2007 DRAWN BY APPROVED BY J.G.M.

HIGH' MESA Consulting Group

DRAMAGE PLAN AND CALCULATIONS ADDITIONS AND ALTERATIONS TO EXISTING FACILITY FIRST NATIONS COMMUNITY HEALTHSOURCE

6010-B MIDWAY PARK BLVD. NE . ALBUQUERQUE, NEW MEXICO 87109 PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

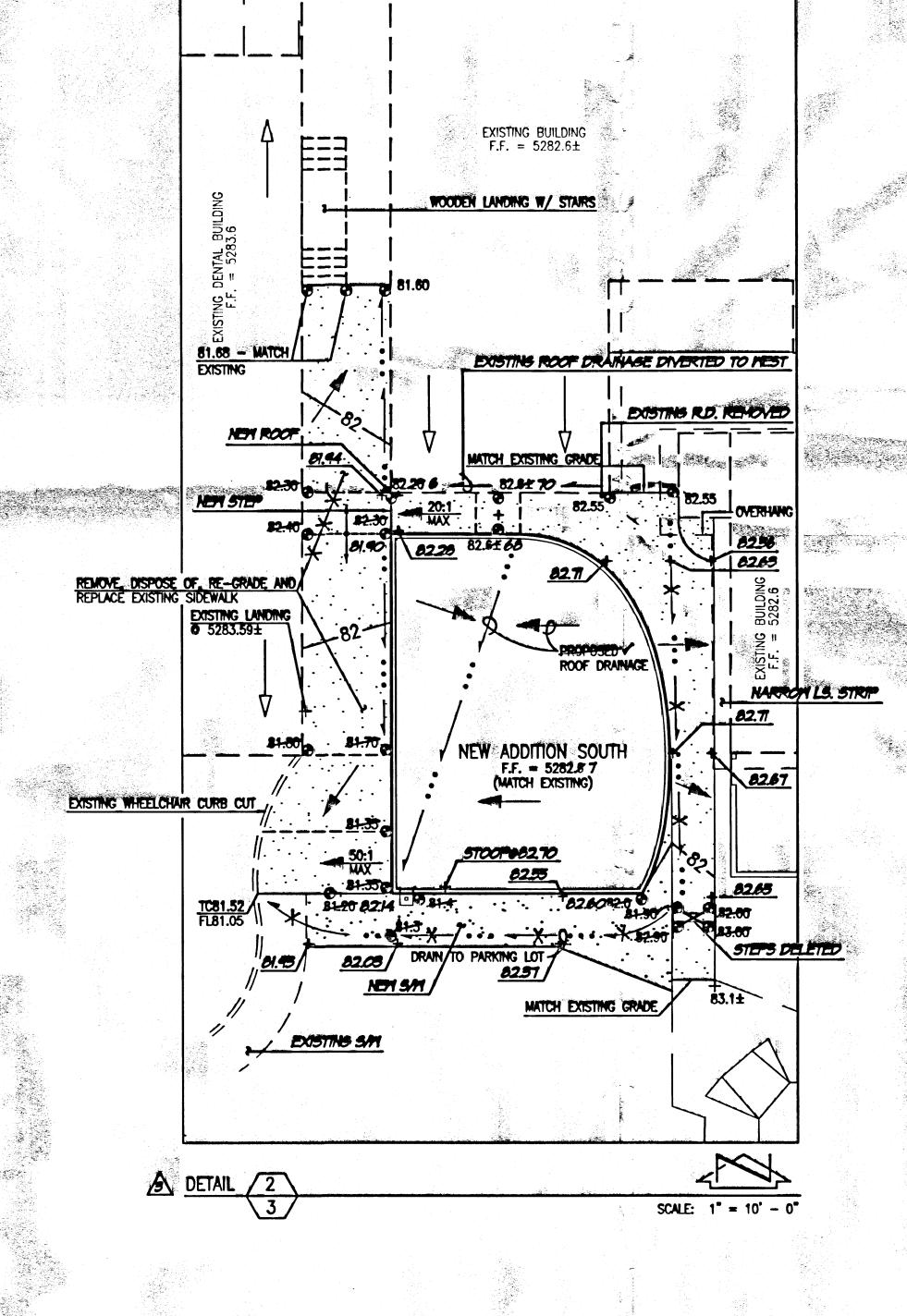


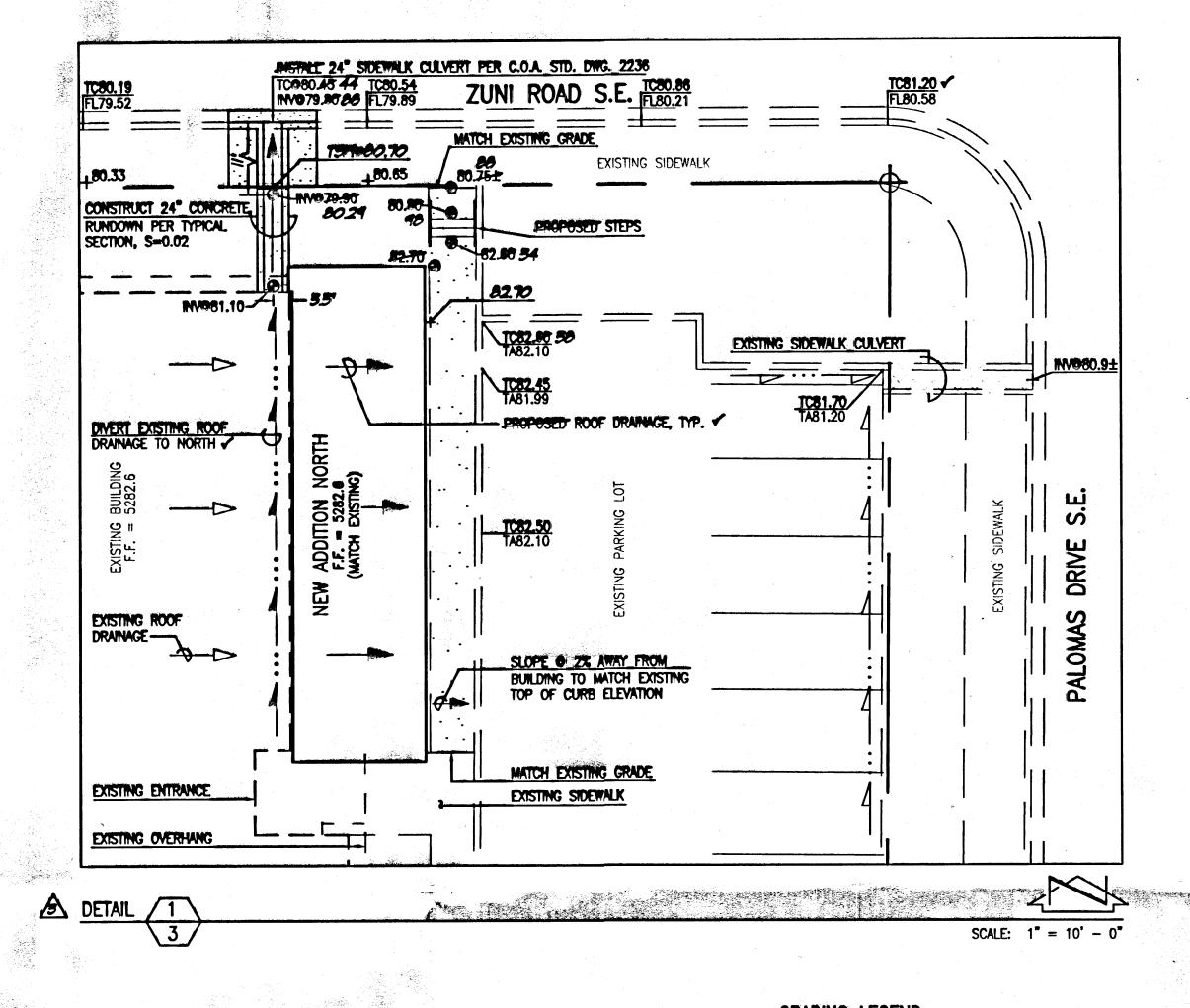
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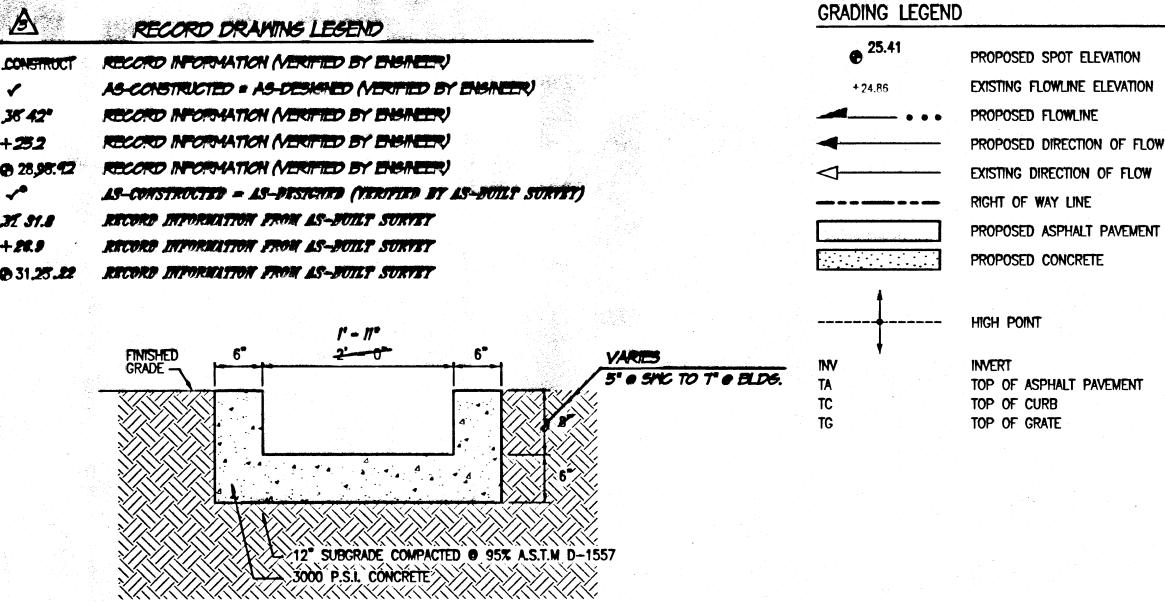
***	STORM DRAIN MAINTENANCE	MARTIN PACHECO VIA E-MAIL	3/12/2012	
	SIDEWALK INSPECTOR			
	HYDROLOGY			
	APPROVALS	NAME	DATE	100
-				

EROSION CONTROL MEASURES

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TYPICAL RUNDOWN SECTION

SCALE: 1" = 1' - 0" RECORD DRAWING

FOR CERTIFICATION, SEE SHEET 1



MESA Consulting Group 6010-B MIDWAY PARK BLVD. NE . ALBUQUERQUE, NEW MEXICO 87109

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GRADING PLAN DETAILS ADDITIONS AND ALTERATIONS TO EXISTING FACILITY FIRST NATIONS COMMUNITY HEALTHSOURCE

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89.086.56 19 08/12 J.S.M. RECORD DRAWING AND CERTIFICATION 12-2010 APPROVED BY J.G.M.

DOCUMENTED BY THE PREVIOUSLY APPROVED GRADING PLAN, 2.) PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 3.) THE LIMIT AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS, AND 4.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. AS SHOWN BY THIS PLAN, THE PROPOSED GRADING WILL CONTINUE THE CURRENT DRAINAGE PATTERNS OF DISCHARGE TO THE ADJACENT CITY STREETS.

VII. CALCULATIONS

THE CALCULATIONS CONTAINED HEREON ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2. DESIGN CRITERIA, DATED JANUARY 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS DEMONSTRATED BY THESE CALCULATIONS, THE PROPOSED PROJECT WILL RESULT IN A MINOR INCREASE IN THE RUNOFF GENERATED BY THE OVERALL SITE. THIS WILL HAVE A NEGLIGIBLE IMPACT ON THE DOWNSTREAM CONDITIONS DESCRIBED ABOVE.

VIII. CONCLUSIONS

THE FOLLOWING CONCLUSIONS HAVE BEEN ESTABLISHED AS A RESULT OF THE EVALUATIONS CONTAINED

1. THE PROPOSED IMPROVEMENTS REPRESENT MODIFICATIONS TO AN EXISTING SITE WITHIN AN INFILL

2. THE PROPOSED IMPROVEMENTS WILL MAINTAIN EXISTING DRAINAGE PATTERNS 3. THE PROPOSED DRAINAGE PATTERNS ARE CONSISTENT WITH THE PREVIOUSLY APPROVED DRAINAGE

PLANS FOR THIS SITE 4. THE PROPOSED IMPROVEMENTS WILL CREATE A NEGLIGIBLE INCREASE IN RUNOFF GENERATED BY THE

5. THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR

DOWNSTREAM DRAINAGE CONDITIONS 6. THE FREE DISCHARGE OF DEVELOPED RUNOFF IS APPROPRIATE BASED UPON THE PRECEDENT FSTABLISHED BY PRIOR SUBMITTALS

B. DEVELOPED CONDITION 1. BASIN 1 a. VOLUME $E_{W} = (E_{A}A_{A} + E_{B}A_{B} + E_{C}A_{C} + E_{D}A_{D})/A_{T}$ $V_{100,6 HR} = (E_W/12)A_T = (2.06/12)0.43 =$ b. PEAK DISCHARGE $Q_p = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D$ $Q_p = Q_{100} = (1.87^{\circ}0.00) + (2.60^{\circ}0.09) + (3.45^{\circ}0.00) + (5.02^{\circ}0.34) =$ 2. BASIN 2 Ew = (EAA+EBAB+ECAC+EBAD)AT $V_{100.6 \text{ HR}} = (E_W/12)A_T = (2.21/12)0.39 =$ b. PEAK DISCHARGE $Q_p = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D$ $Q_p = Q_{100} = (1.87^{\circ}0.00) + (2.60^{\circ}0.04) + (3.45^{\circ}0.00) + (5.02^{\circ}0.35) =$ 3. BASIN 3 Ew = (EAAA+EBAB+ECAC+EDADYAT $V_{100.8 \text{ HR}} = (E_W/12)A_T = (2.11/12)0.26 =$ $Q_p = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D$ $Q_P = Q_{100} = (1.87^{\circ}0.00) + (2.60^{\circ}0.04) + (3.45^{\circ}0.00) + (5.02^{\circ}0.21) =$. VOLUME a. BASIN 1 $\Delta V_{100, 6 HR} = 3,240 - 3,200 =$ b. BASIN 2 $\Delta V_{100, 6 HR} = 3,170 - 3,050 =$ $\Delta V_{100, 6 HR} = 1,970 - 1,970 =$ 2. PEAK DISCHARGE a. BASIN 1 89 01 N. HYDROLOGY A. EXISTING CONDITION 1. BASIN 1

Ew = (EAA+ERAR+ECAC+EDAD)AT $(0.66^{\circ}0.00) + (0.92^{\circ}0.10) + (1.29^{\circ}0.00) + (2.36^{\circ}0.34) + (0.43^{\circ}0.34) + (0.92^{\circ}0.10) + (0.9$ $V_{100.6 \text{ HR}} = (E_W/12)A_T = (2.04/12)0.43 =$ 0.0736 AC-FT = 3,200 CF

b. PEAK DISCHÄRGE

 $Q_p = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D$ $Q_p = Q_{100} = (1.87^{\circ}0.00) + (2.60^{\circ}0.10) + (3.45^{\circ}0.00) + (5.02^{\circ}0.34) =$

2. BASIN 2

a. VOLUME EW = (EAA+EBAB+ECAC+EDADYAT

 $E_W = (0.66^{\circ}0.00) + (0.92^{\circ}0.06) + (1.29^{\circ}0.00) + (2.36^{\circ}0.33)/0.39 = 2.13 \text{ N}$ $V_{100.6 \text{ HR}} = (E_W/12)A_T = (2.13/12)0.39 =$ 0.0701 AC-FT = 3,050 CF

b. PEAK DISCHARGE $Q_p = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D$

 $Q_P = Q_{100} = (1.87^{\circ}0.00) + (2.60^{\circ}0.06) + (3.45^{\circ}0.00) + (5.02^{\circ}0.33) = 0.000$

3. BASIN 3

a. VOLUME Ew = (EAA+EBAB+ECAC+EDADVAT

 $(0.66^{\circ}0.00) + (0.92^{\circ}0.04) + (1.29^{\circ}0.00) + (2.36^{\circ}0.21) + (0.26 = 2.11 \text{ IN}$ 0.0452 AC-FT = 1.970 CF $V_{100.6 \text{ HR}} = (E_W/12)A_T = (2.11/12)0.26 =$

b. PEAK DISCHARGE $Q_p = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D$

1.2 CFS $Q_p = Q_{100} = (1.87^{\circ}0.00) + (2.60^{\circ}0.04) + (3.45^{\circ}0.00) + (5.02^{\circ}0.21) =$

CONSTRUCTION NOTES

 $(0.66^{\circ}0.00) + (0.92^{\circ}0.09) + (1.29^{\circ}0.00) + (2.36^{\circ}0.34)/0.43 =$

 $(0.66^{\circ}0.00) + (0.92^{\circ}0.04) + (1.29^{\circ}0.00) + (2.36^{\circ}0.35)/0.39 =$

(0.66*0.00) + (0.92*0.04)+ (1.29*0.00)+ (2.36*0.21)/0.26 =

2.0 - 1.9 =

1.9 - 1.8 =

1.2 - 1.2 =

0.0743 AC-FT = 3,240 CF

0.0727 AC-FT = 3,170 CF

0.0452 AC-FT = 1,970 CF

0 CF

2.0 CFS

1.9 CFS

1.2 CFS

(INCREASE)

(INCREASE)

(NO CHANGE)

0.1 CFS (INCREASE)

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 (ALBUQUERQUE AREA), 1-800-321-ALERT(2537) (STATEWIDE), FOR LOCATION OF EXISTING UTILITIES.

2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL. POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.

3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS. RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

4. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED EXCEPT AS OTHERWISE STATED OR PROMDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7. AMENDMENT 1

5. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY B INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

6. THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE BUILDING(S) SHALL BE PROVIDED WITH POSITIVE DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.

7. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT. 8. BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL

STREET USE. 9. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY

OF THE OWNER OF THE PROPERTY SERVED.

APPROVALS	NAME	DATE
HYDROLOGY		
SIDEWALK INSPECTOR	y:	
STORM DRAIN MAINTENANCE		

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<u>L-18</u>

PANEL F.I.R.M OF SCALE: 1'' = 750'DATED: SEPTEMBER 26, 2008

LEGAL DESCRIPTION (FROM A.G.I.S.) PARCEL A1A, HOLLINGBERRY'S REPLAT OF BLOCK 6, BARON BURG

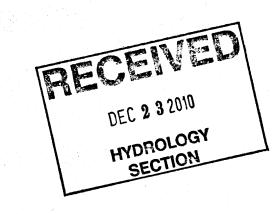
PROJECT BENCHMARK (FROM 1989 PLAN) ACS BM STA 8-K18. A SQUARE 'C' CHISELED ON TOP OF CURB LOCATED AT THE SSE RETURN AT THE INTERSECTION OF COAL AVE. S.E. AND SAN MATEO BLVD S.E.

ELEVATION = 5262.15 FT (MSLD) FOR T.B.M.'S, SEE SHEET 2

INDEX OF DRAWINGS

SCALE: 1'' = 750'

DRAINAGE PLAN AND CALCULATIONS GRADING AND DRAINAGE PLAN (ORIGINAL) GRADING PLAN DETAILS (UPDATE)





12-23-2010

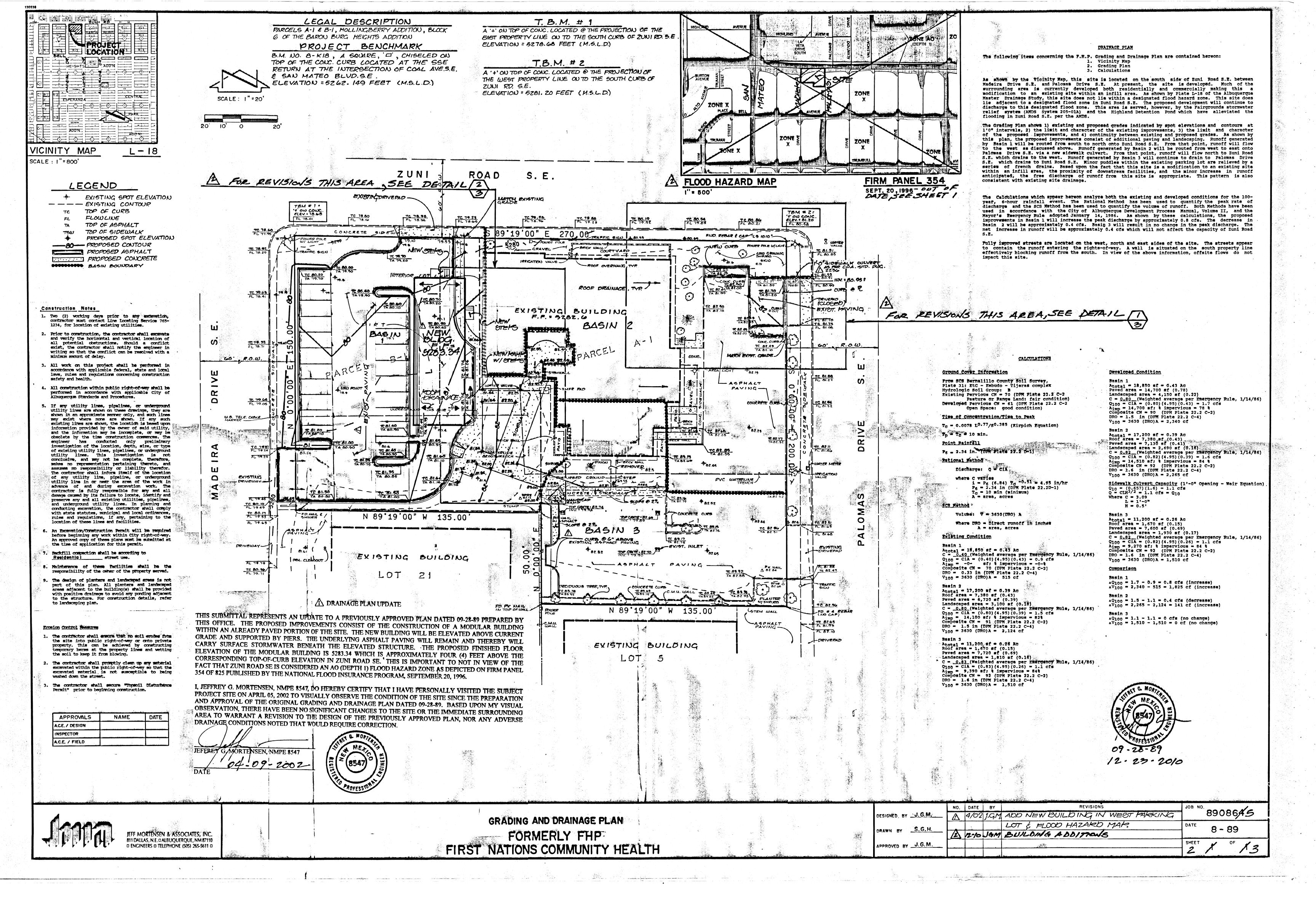
HIGH MESA Consulting Group

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DRAINAGE PLAN AND CALCULATIONS ADDITIONS AND ALTERATIONS TO EXISTING FACILITY NATIONS COMMUNITY HEALTHSOURCE

1.8 CFS

NO. DATE BY 89.086.5 DESIGNED BY J.G.M. 12-2007



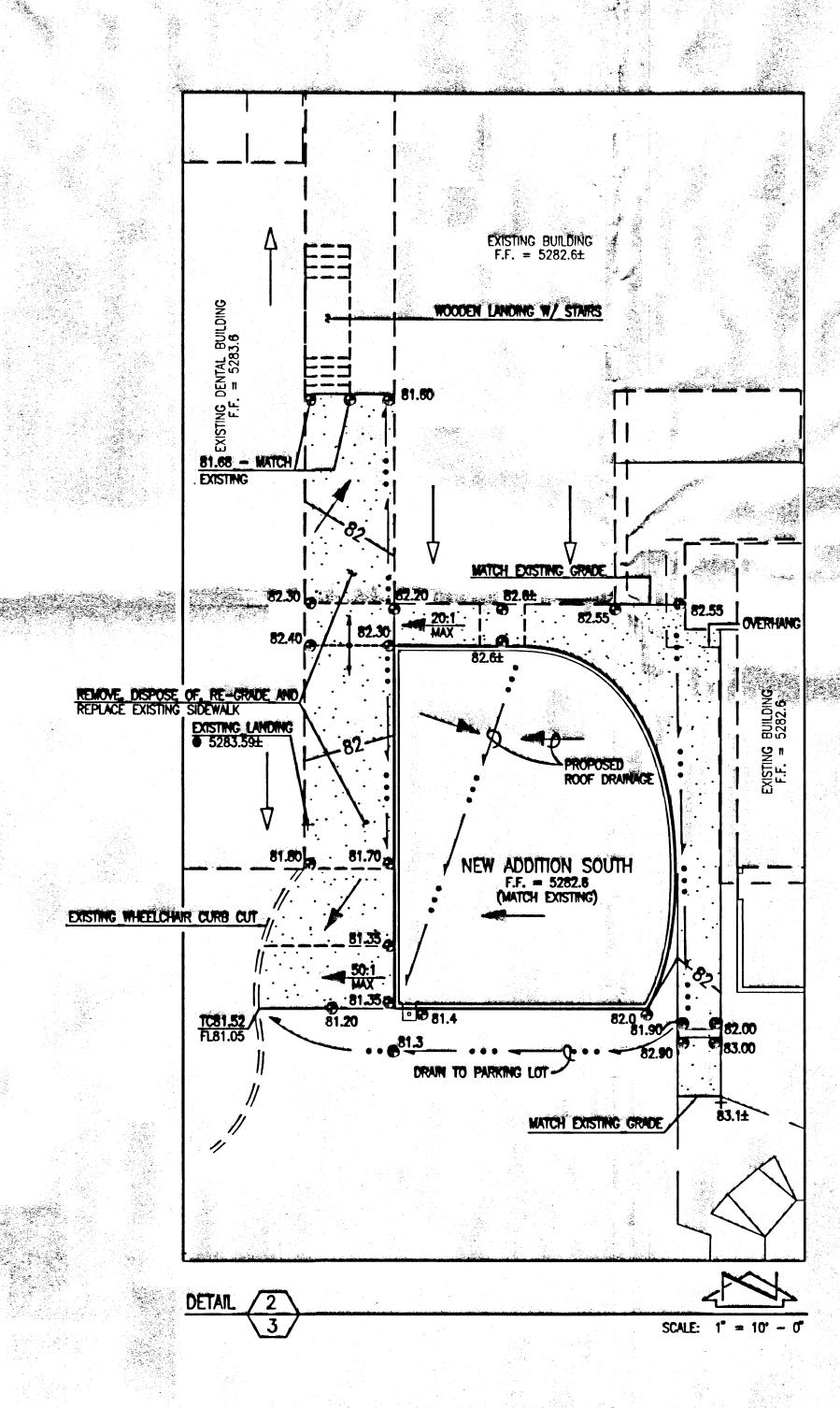
CONSTRUCTION NOTES

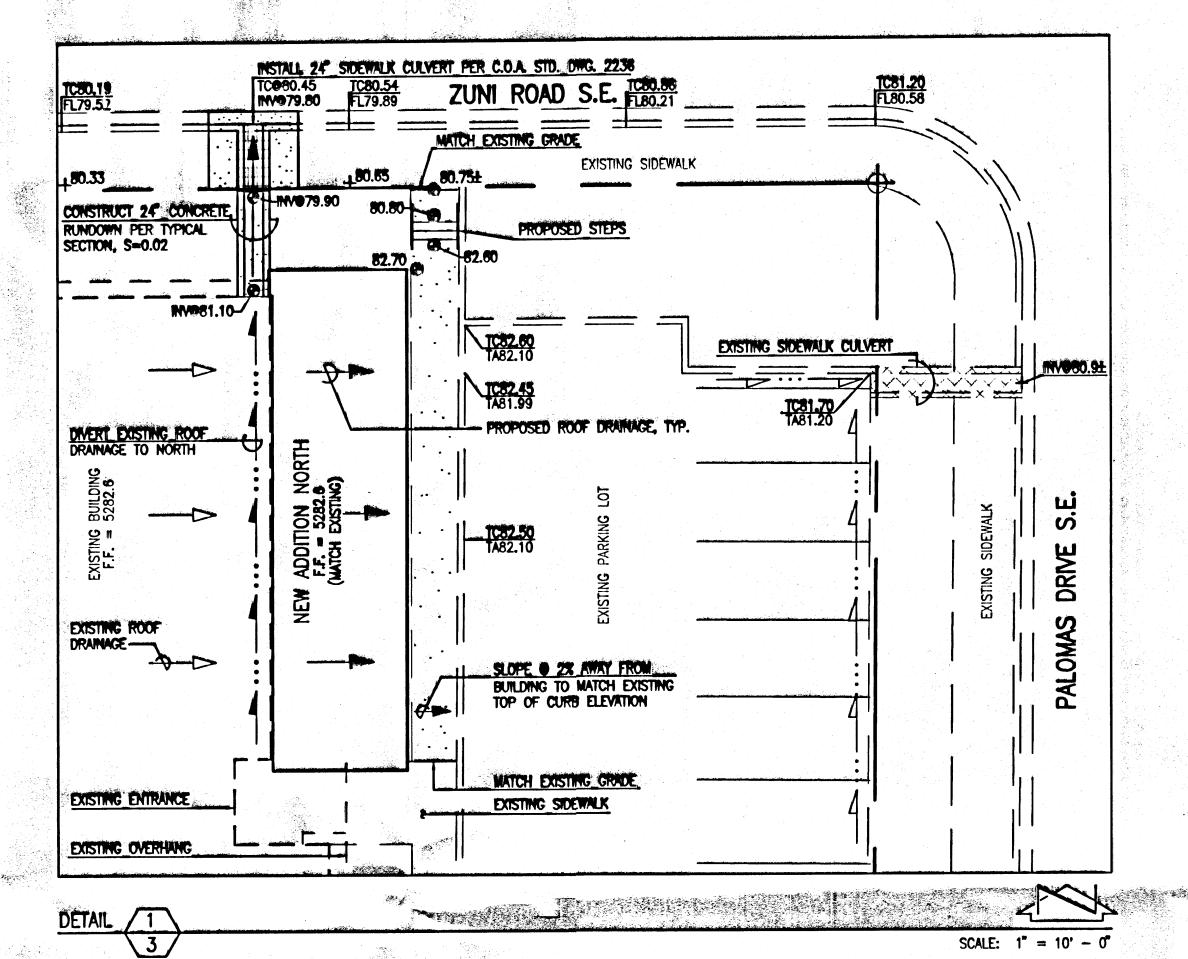
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APPROVALS NAME		
	IVAMIL	DATE
HYDROLOGY		
SIDEWALK INSPECTOR		
STORM DRAIN MAINTENANCE		

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PROPOSED SPOT ELEVATION EXISTING FLOWLINE ELEVATION PROPOSED FLOWLINE PROPOSED DIRECTION OF FLOW EXISTING DIRECTION OF FLOW RIGHT OF WAY LINE PROPOSED ASPHALT PAVEMENT PROPOSED CONCRETE HIGH POINT -----2' - 0 TOP OF ASPHALT PAVEMENT TOP OF CURB TOP OF GRATE

12" SUBGRADE COMPACTED 9 95% A.S.T.M D-1557

3000 P.S.I. CÓNCRETE

TYPICAL RUNDOWN SECTION

SCALE: 1" = 1' - 0"

12-23.2010

MESA Consulting Group

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GRADING PLAN DETAILS
ADDITIONS AND ALTERATIONS TO EXISTING FACILITY FIRST NATIONS COMMUNITY HEALTHSOURCE

REVISIONS NO. DATE BY 89.086.5 DESIGNED BY J.G.M. 12-2010 APPROVED BY ____J.G.M.

GRADING LEGEND

