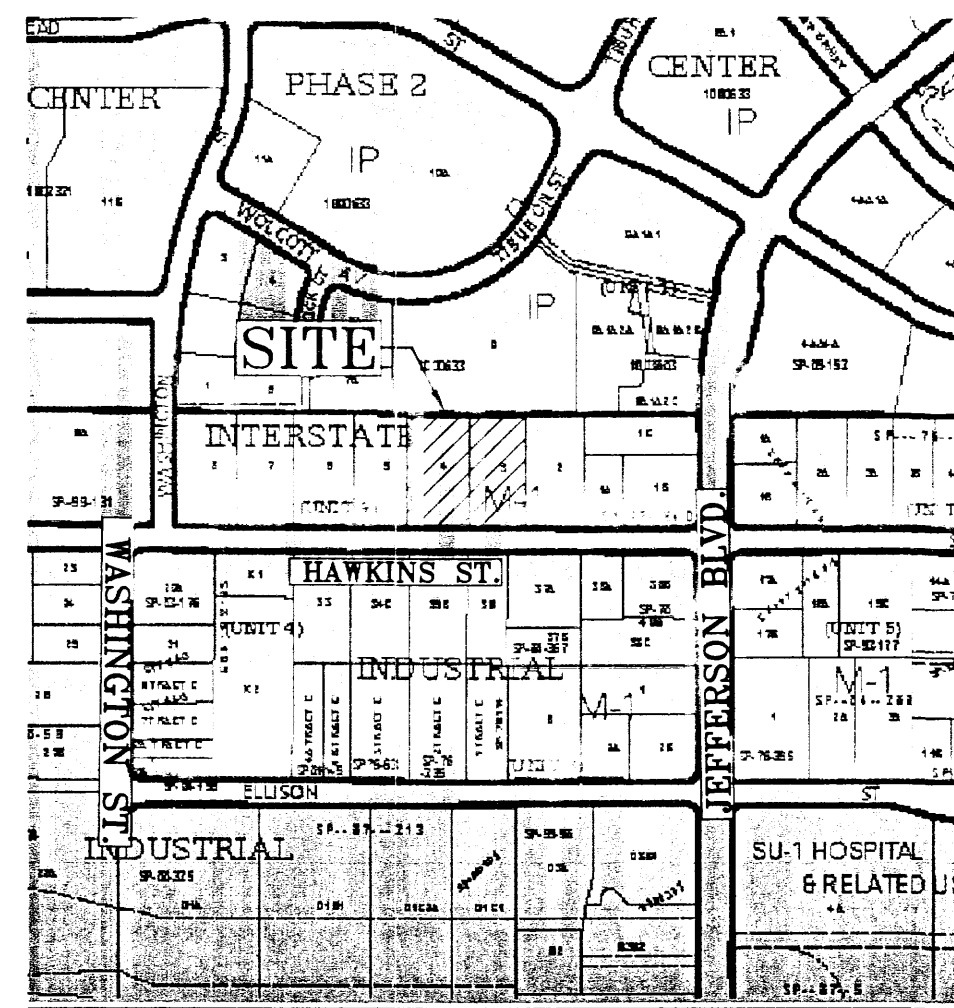
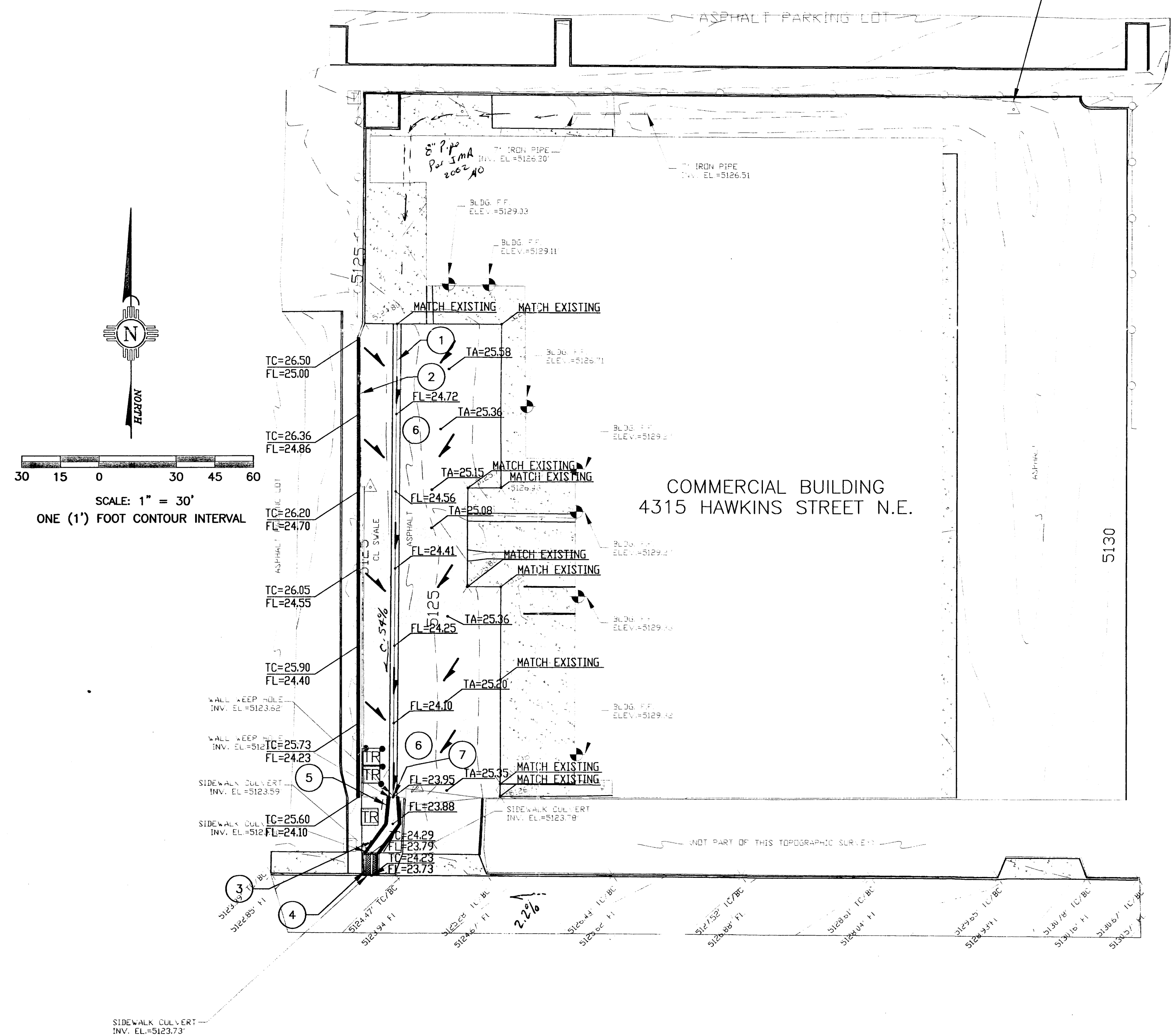


F.I.R.M. MAP PAN-136 & 137
NOT TO SCALE



VICINITY MAP D-17-Z
NOT TO SCALE



EXISTING ON-SITE CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED ON THE NORTH SIDE OF HAWKINS ST. NE JUST WEST OF JEFFERSON NE. THE CURRENT LEGAL DESCRIPTION IS LOTS 3 & 4, INTERSTATE INDUSTRIAL TRACT, UNIT 5. AS SHOWN BY PANELS 136 & 137 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, SEPTEMBER 20, 1996. THIS SITE DOES NOT LIE WITHIN NOR ADVERSELY IMPACT A DESIGNATED FLOOD HAZARD ZONE (ZONE A). THE PROJECT SITE IS DEVELOPED AND CONSISTS OF PMBP AND CONCRETE PAVING THROUGHOUT 95% OF THE SITE. THE PROJECT SITE SLOPES IN A SOUTHERLY DIRECTION AT APPROXIMATELY 1%. THE TOTAL AREA OF THE SITE IS 1.90 ACRES. THE LAND TREATMENTS ARE CATEGORIZED AS: A=0%, B=0%, C=0% AND D=100%. OFFSITE FLOWS FLOW WESTERLY ALONG HAWKINS ST. LOCATED SOUTH OF THE PROPERTY. ALL SITE FLOWS DISCHARGE TO HAWKINS ST. ALONG THE SOUTH OF THE PROPERTY.

PROJECT DESCRIPTION

THE PROPOSED PROJECT WILL INCLUDE PARKING LOT RESURFACING AND DRAINAGE IMPROVEMENTS TO THE WEST SIDE OF THE PROPERTY CONSISTING OF APPROXIMATELY .30 ACRES. THE NEW SURFACE AND IMPROVEMENTS ARE BEING CONSTRUCTED TO HELP ALLEVIATE PONDING WHICH IS OCCURRING AT THE SOUTHWEST CORNER OF THE PROPERTY. THE EXISTING PARKING LOT AND LOADING AREA WILL BE REPAVED, AND IMPROVEMENTS WILL CONSIST OF A NEW HEADER CURB ALONG THE WEST SIDE OF THE PROPERTY, AND NEW ASPHALT PAVED SURFACE WITH CONCRETE VALLEY GUTTER AS REQUIRED TO PROVIDE POSITIVE DRAINAGE IN PAVED AREAS. THE PARKING LOT AREA AS WELL AS RUNOFF FROM THE EXISTING BUILDING WILL DRAIN SOUTH TO HAWKINS STREET THROUGH A NEW CONCRETE CHANNEL AND A REPLACEMENT OF TWO EXISTING SIDEWALK CULVERTS LOCATED AT THE SOUTHWEST CORNER OF THE PROPERTY.

STORMWATER ROUTING

AS PREVIOUSLY MENTIONED, ALL SITE RUNOFF DISCHARGES TO HAWKINS STREET, WHICH IS LOCATED SOUTH OF THE PROPERTY. THEN FLOWS WESTERLY ALONG HAWKINS STREET. NO NEW CALCULATIONS HAVE BEEN PERFORMED BECAUSE THERE WILL BE NO NET INCREASE IN IMPERVIOUS AREA: THERE WILL BE NO INCREASE IN RUNOFF ASSOCIATED WITH THE PROPOSED IMPROVEMENTS.

CONCLUSION

THERE IS NO INCREASE IMPERVIOUS AREA AS A RESULT OF THIS PROJECT. THE REPAVING OF THE PARKING LOT WILL HELP TO PROMOTE POSITIVE DRAINAGE TO THE DESIGNATED OUTFALL LOCATION. THE CONSTRUCTION OF THE NEW CONCRETE CHANNEL SECTION WILL ALLEVIATE SCOUR PROBLEMS, ELIMINATE EXCESSIVE MAINTENANCE AND WILL HELP TO KEEP THE EXISTING TRANSFORMER PAD FROM BEING UNDERMINED. THE EXISTING SIDEWALK CULVERTS HAVE SETTLED OVER TIME AND AS A RESULT HAVE AN ADVERSE SLOPE. THE RECONSTRUCTION OF THE TWO SIDEWALK CULVERTS WILL PROVIDE POSITIVE DRAINAGE TO HAWKINS STREET.

SPECIAL ORDER 19 DRAINAGE FACILITIES WITHIN THE CITY RIGHT-OF-WAY NOTICE TO CONTRACTOR

- 1) AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- 2) 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.
- 3) THREE WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT THE LINE LOCATION SERVICE, NEW MEXICO ONE CALL 260-1990, FOR THE LOCATION OF EXISTING UTILITIES.
- 4) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 5) BACK FILL COMPACTION SHALL BE ACCORDING TO TRAFFIC / STREET USE.
- 6) MAINTENANCE OF THE FACILITY SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY BEING SERVED.
- 7) WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24 - HOUR BASIS.

GENERAL NOTES:

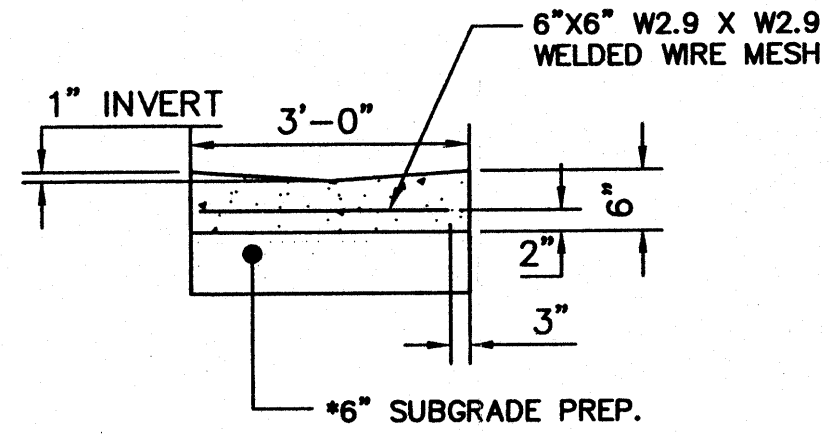
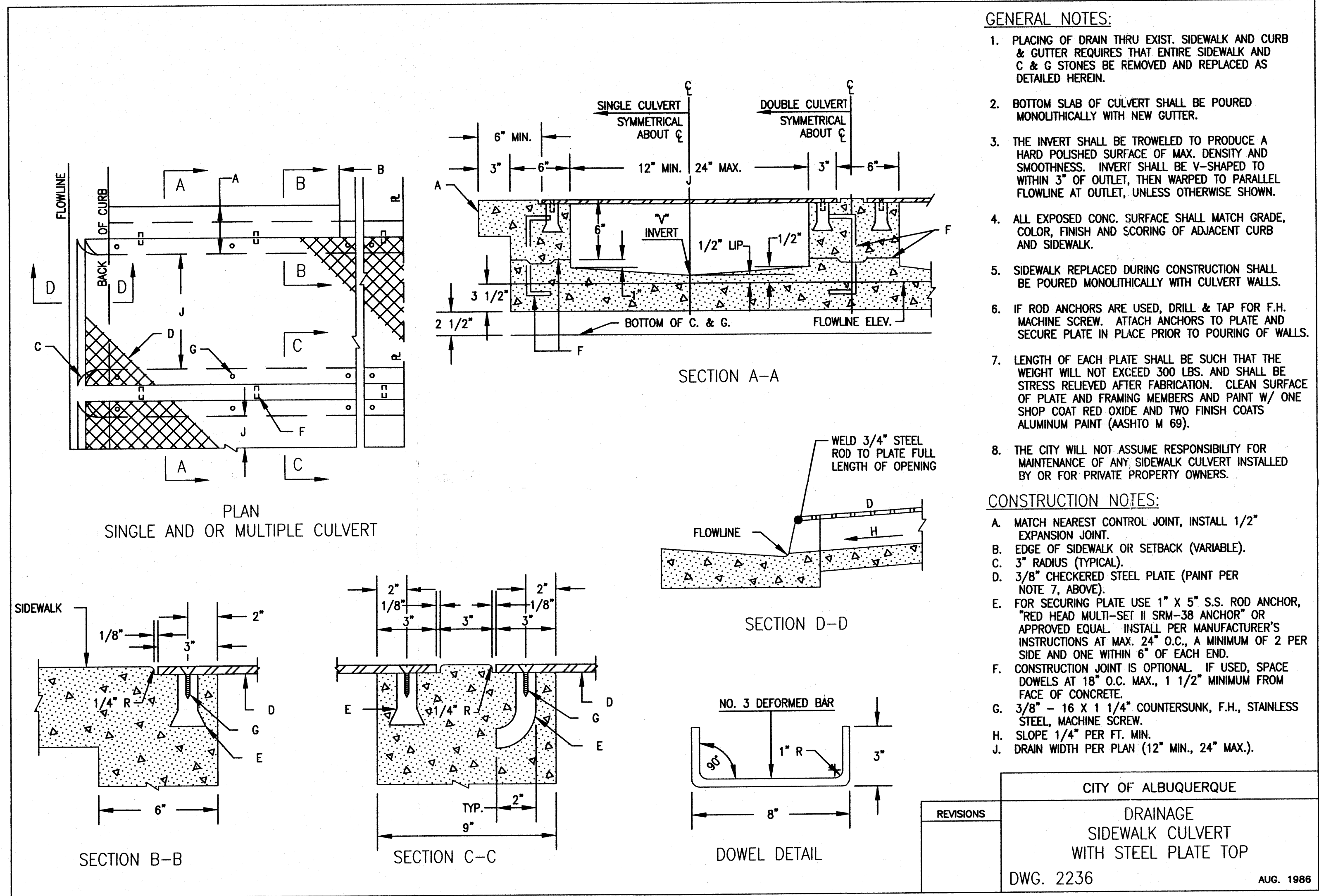
1. AS OF MARCH 10, 2003, THE USPA REQUIRES NPDES PERMIT COVERAGE FOR STORM WATER DISCHARGES FROM CONSTRUCTION PROJECTS (COMMON PLANS OF DEVELOPMENT) THAT WILL RESULT IN THE DISTURBANCE (OR RE-DISTURBANCE) OF ONE OR MORE ACRES, INCLUDING EXPANSIONS OF TOTAL LAND AREA. THE DEVELOPER SHOULD BE MADE AWARE THAT THE USEPA REQUIRES THAT ALL "OPERATORS" (SEE FEDERAL REGISTER/VOL. 63, NO. 128 / MONDAY, JULY 6, 1999 PG 36509) OBTAIN NPDES PERMIT COVERAGE FOR CONSTRUCTION PROJECTS. GENERALLY THIS MEANS THAT AT LEAST TWO PARTIES WILL REQUIRE PERMIT COVERAGE. THE OWNER/DEVELOPER OF THIS CONSTRUCTION PROJECT WHO HAS OPERATIONAL CONTROL OVER THE PROJECT SPECIFICATIONS, THE GENERAL CONTRACTOR WHO HAS DAY-TO-DAY OPERATIONAL CONTROL OF THOSE ACTIVITIES AT THE SITE, WHICH ARE NECESSARY TO ENSURE COMPLIANCE WITH THE STORM WATER POLLUTION PLAN AND OTHER CONDITIONS, AND POSSIBLY OTHER "OPERATORS" THAT WILL REQUIRE APPROPRIATE NPDES PERMIT COVERAGE FOR THIS PROJECT.
2. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR CONSTRUCTION.
3. CONTRACTOR SHALL OBTAIN A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO ANY GRADING OR CONSTRUCTION.
4. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OF EXISTING UTILITIES.
5. BACKFILL AND COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.
7. PROJECT BENCHMARK: 5/8" REBAR WITH ALUMINUM CAP, STAMPED "CP 100", LOCATED AT THE NORTHEAST CORNER OF THE EXISTING MISSION LINEN BUILDING. ELEVATION = 5127.53 FEET (NGVD 1929)
8. ALL EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS HAS BEEN PROVIDED BY MISSION LINEN. MILLER ENGINEERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
9. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
10. ALL PAVEMENT, BASE COURSE AND SUBGRADE PREPARATION DESIGNS SHALL BE PROVIDED BY THE SOILS ENGINEER FOR THIS PROJECT.

KEYED NOTES:

1. 36" WIDE CONCRETE VALLEY GUTTER, COA STD 2415A, LENGTH=184 LF SEE DETAIL ON SHEET C-2.
2. CONCRETE DEPRESSED CURB AND GUTTER PER COA STD DWG 2415A.
3. CONCRETE CHANNEL, WIDTH VARIES, 15 LF. SEE DETAIL ON SHEET C-2.
4. 2'-2" WIDE OPENING, SIDEWALK CULVERTS PER COA STD DWG 2236 WITH A STEEL PLATE.
5. 10' TRANSITION FROM 3' WIDE CONCRETE CHANNEL TO 4'-9" WIDE CONCRETE CHANNEL TO MATCH SIDEWALK CULVERT OPENING.
6. NEW PAVEMENT, BASE COURSE, AND SUBGRADE PREPARATION AS DESIGNED BY OWNER'S GEOTECHNICAL ENGINEER FOR THIS PROJECT.
7. ADJUST OPENING IN WALL AS REQUIRED TO ACCOMMODATE NEW GRADES OF AND WIDTH OF CONCRETE VALLEY GUTTER. OWNER AND CONTRACTOR TO CONSULT OWNER'S STRUCTURAL ENGINEER PRIOR TO MODIFICATIONS TO WALL OPENING.

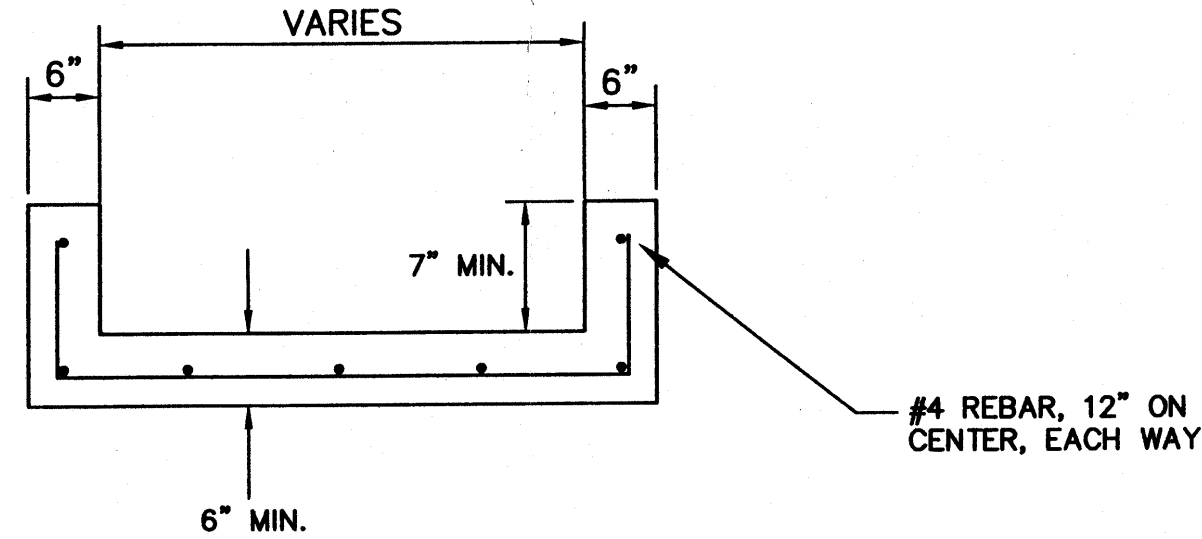
RECEIVED
MAY 16 2003
HYDROLOGY
SECTION

MILLER ENGINEERING CONSULTANTS Engineers • Planners 3500 COMANCHE BLVD. NE ALBUQUERQUE, NM 87107 (505) 888-7500 (505) 888-3600 (FAX)			
DESIGNED	JAL	JOB #	08-012
DRAWN	JAL	FILE	JAL
CHECKED	VAM	DATE	MAY 2003
ENGINEERS STAMP			
NEW MEXICO BERNALILLO COUNTY MISSION LINEN SUPPLY GRADING AND DRAINAGE PLAN			
REVISION DESCRIPTION			
DATE			
MARK			
SHEET C-1			



CONCRETE VALLEY GUTTER DETAIL

SCALE: NONE



CONCRETE CHANNEL SECTION DETAIL

SCALE: NONE

RECEIVED

MAY 16 2008

HYDROLOGY SECTION

BERNALILLO COUNTY		NEW MEXICO		MISSION LINEN SUPPLY		MISCELLANEOUS DETAILS	
DESIGNED		JOB #		FILE		DATE	
DRAWN		JAL		JAL		MAY 2008	
CHECKED		VAM		VAM		MAY 2008	
ENGINEERS STAMP		ENGINEERS STAMP		ENGINEERS STAMP		ENGINEERS STAMP	
REVISION		REVISION		REVISION		REVISION	
DESCRIPTION		DESCRIPTION		DESCRIPTION		DESCRIPTION	
DATE		DATE		DATE		DATE	
MARK		MARK		MARK		MARK	
SHEET		SHEET		SHEET		SHEET	
C-2		C-2		C-2		C-2	

MILLER ENGINEERING CONSULTANTS

Engineers • Planners

3500 COMANCHE BLVD. NE
ALBUQUERQUE, NM 87107
(505) 888-7500
(505) 888-3800 (FAX)



ENGINEER'S CERTIFICATION FOR 1997 LOADING DOCK

AS INDICATED BY THE AS-BUILT INFORMATION SHOWN HEREON, THE MISSION UNIFORM DOCK HAS BEEN GRADED AND DRAINED IN SUBSTANTIAL COMPLIANCE WITH THE 1997 APPROVED PLAN. IT IS BASED UPON THIS EVALUATION OF AS-CONSTRUCTED CONDITIONS THAT ISSUANCE OF A PERMANENT CERTIFICATE OF OCCUPANCY IS HEREBY RECOMMENDED. THE AS-BUILT INFORMATION HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THE AS-BUILT INFORMATION IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THE DOCK AND RELATED IMPROVEMENTS. THIS CERTIFICATION DOES NOT ADDRESS NOR EVALUATE ADA ACCESSIBILITY ISSUES OR COMPLIANCE. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

JEFFREY G. MORTENSEN, NMPE 8547
DATE 10-25-2000

ENGINEER'S DRAINAGE CERTIFICATION FOR 2000 CANOPY ADDITION

I, JEFFREY G. MORTENSEN, NMPE 8547, OF THE FIRM JEFF MORTENSEN & ASSOCIATES, INC., HEREBY CERTIFY THAT THIS PROJECT (MISSION LINEN & UNIFORM CANOPY ADDITION) HAS BEEN GRADED AND DRAINED IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN UPDATE DATED 10-25-2000. THE RECORD INFORMATION, OBTAINED BY VISUAL OBSERVATION AND EDITED ONTO THE ORIGINAL DESIGN DOCUMENT, HAS BEEN PERSONALLY OBTAINED BY ME ON 01-21-2002 AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR PERMANENT CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THE CANOPY ADDITION PROJECT. THOSE RELYING UPON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

JEFFREY G. MORTENSEN, NMPE 8547
DATE 01-24-2002

6 ENGINEER'S DRAINAGE CERTIFICATION FOR 2002 MECHANICAL ENCLOSURE ADDITION

I, JEFFREY G. MORTENSEN, NMPE 8547, OF THE FIRM JEFF MORTENSEN & ASSOCIATES, INC., HEREBY CERTIFY THAT THIS PROJECT (MISSION LINEN & UNIFORM MECHANICAL ENCLOSURE ADDITION) HAS BEEN GRADED AND DRAINED IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN UPDATE DATED 01-24-2002. THE RECORD INFORMATION, OBTAINED BY VISUAL OBSERVATION AND EDITED ONTO THE ORIGINAL DESIGN DOCUMENT, HAS BEEN PERSONALLY OBTAINED BY ME ON 06-19-2002 AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR PERMANENT CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THE CANOPY ADDITION PROJECT. THOSE RELYING UPON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

JEFFREY G. MORTENSEN, NMPE 8547
DATE 06-20-2002

DRAINAGE PLAN(2000)

I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN THE LOWER NORTHEAST HEIGHTS ALONG THE JEFFERSON CORRIDOR, REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE DRAINAGE CONCEPT WILL BE TO CONTINUE TO FOLLOW AND HONOR THE DRAINAGE PATTERN OF THE SITE.

THIS SUBMITTAL IS MADE IN SUPPORT OF A BUILDING PERMIT FOR A CANOPY ADDITION OVER THE EXISTING LOADING DOCK IDENTIFIED ON THE 1997 PLAN TO WHICH THIS AN UPDATE.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED ON THE NORTH SIDE OF HAWKINS NE JUST WEST OF JEFFERSON NE. THE CURRENT LEGAL DESCRIPTION IS LOTS 3 & 4, INTERSTATE INDUSTRIAL TRACT, UNIT 5. AS SHOWN BY PANELS 136 & 137 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, SEPTEMBER 20, 1996, THIS SITE DOES NOT LIE WITHIN NOR ADVERSELY IMPACT A DESIGNATED FLOOD HAZARD ZONE (ZONE A). AS STATED ABOVE, THIS PROJECT INVOLVES THE CONSTRUCTION OF A CANOPY OVER A PORTION OF THE SITE WHICH CURRENTLY EXISTS AS A CONCRETE LOADING DOCK; NO ADDITIONAL IMPERVIOUS AREA IS PROPOSED. LASTLY, THE ROOF DRAINAGE OF THE CANOPY WILL NOT ADVERSELY IMPACT THE EXISTING DRAINAGE PATTERN OF THE SITE.

III. BACKGROUND DOCUMENTS

REVIEW OF HYDROLOGY DEVELOPMENT DIVISION RECORDS INDICATES NO PREVIOUSLY SUBMITTED AND/OR APPROVED DRAINAGE SUBMITTALS FOR THIS SITE WITH THE EXCEPTION OF THE PLAN BEING UPDATED BY THIS SUBMITTAL.

IV. GRADING PLAN

THE GRADING PLAN SHOWS 1.) AS-BUILT GRADES INDICATED BY SPOT ELEVATIONS AT CRITICAL LOCATIONS, 2.) AS-DESIGNED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 3.) THE LIMIT AND CHARACTER OF THE EXISTING IMPROVEMENTS, 4.) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS, AND 5.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. AS SHOWN BY THIS PLAN, THE MAJORITY OF THE SITE IS ALREADY DEVELOPED. THE PROPOSED CONSTRUCTION AFFECTS ONLY A SMALL PORTION OF THE SITE. THIS PLAN FURTHER ILLUSTRATES THE EXISTING DRAINAGE PATTERNS DESCRIBED IN THE PREVIOUS (1997) SUBMITTAL TO WHICH THIS IS AN UPDATE.

V11. CALCULATIONS

THE CALCULATIONS WHICH APPEAR HEREON ANALYZE BOTH 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 SHOWN BY THESE CALCULATIONS, THERE WAS A NEGLIGIBLE INCREASE IN RUNOFF ASSOCIATED WITH THE 1997 DOCK CONSTRUCTION. THERE WILL BE NO INCREASE IN RUNOFF ASSOCIATED WITH THE PROPOSED CANOPY CONSTRUCTION.

V. CONCLUSION

THE CONTINUED DISCHARGE OF RUNOFF FROM THIS SITE TO HAWKINS NE IS APPROPRIATE DUE TO FOLLOWING FACTORS:

1. MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA
2. NO INCREASE IN DEVELOPED RUNOFF
3. PRESERVATION OF EXISTING SITE HYDROLOGY
4. NO IMPACT ON DOWNSTREAM FLOOD ZONES

DRAINAGE PLAN UPDATE (2002)

I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN THE LOWER NORTHEAST HEIGHTS ALONG THE JEFFERSON CORRIDOR, REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE DRAINAGE CONCEPT WILL BE TO CONTINUE TO FOLLOW AND HONOR THE DRAINAGE PATTERN OF THE SITE.

THIS SUBMITTAL IS MADE IN SUPPORT OF A BUILDING PERMIT FOR A MECHANICAL EQUIPMENT ENCLOSURE ADDITION OVER AN AREA OF EXISTING PAVING JUST SOUTH OF THE LOADING DOCK IDENTIFIED ON THE 1997 AND 2000 PLANS TO WHICH THIS AN UPDATE.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED ON THE NORTH SIDE OF HAWKINS NE JUST WEST OF JEFFERSON NE. THE CURRENT LEGAL DESCRIPTION IS LOTS 3 & 4, INTERSTATE INDUSTRIAL TRACT, UNIT 5. AS SHOWN BY PANELS 136 & 137 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, SEPTEMBER 20, 1996, THIS SITE DOES NOT LIE WITHIN NOR ADVERSELY IMPACT A DESIGNATED FLOOD HAZARD ZONE (ZONE A). AS STATED ABOVE, THIS PROJECT INVOLVES THE CONSTRUCTION OF A MECHANICAL EQUIPMENT ENCLOSURE ADDITION ON A PORTION OF THE SITE THAT CURRENTLY EXISTS AS PAVING; NO ADDITIONAL IMPERVIOUS AREA IS PROPOSED. LASTLY, THE ROOF DRAINAGE OF THE ADDITION WILL NOT ADVERSELY IMPACT NOR CONFLICT WITH THE EXISTING DRAINAGE PATTERN OF THE SITE.

III. BACKGROUND DOCUMENTS

REVIEW OF HYDROLOGY DEVELOPMENT DIVISION RECORDS INDICATES NO PREVIOUSLY SUBMITTED AND/OR APPROVED DRAINAGE SUBMITTALS FOR THIS SITE WITH THE EXCEPTION OF THE PLANS BEING UPDATED BY THIS SUBMITTAL.

IV. GRADING PLAN

THE GRADING PLAN SHOWS THE LOCATION OF THE PROPOSED MECHANICAL EQUIPMENT ENCLOSURE ADDITION SUPERIMPOSED ONTO THE PREVIOUSLY APPROVED PLAN(S). AS SHOWN BY THIS PLAN, THE MAJORITY OF THE SITE IS ALREADY DEVELOPED WITH THE PROPOSED ADDITION SITUATED AT THE NORTHWEST CORNER OF THE SITE, JUST SOUTH OF THE 1997 DOCK AND 2000 CANOPY. THE PROPOSED CONSTRUCTION AFFECTS ONLY A SMALL PORTION OF THE SITE THAT IS ALREADY PAVED. THIS PLAN FURTHER ILLUSTRATES THE EXISTING DRAINAGE PATTERNS DESCRIBED IN THE PREVIOUS SUBMITTALS TO WHICH THIS IS AN UPDATE.

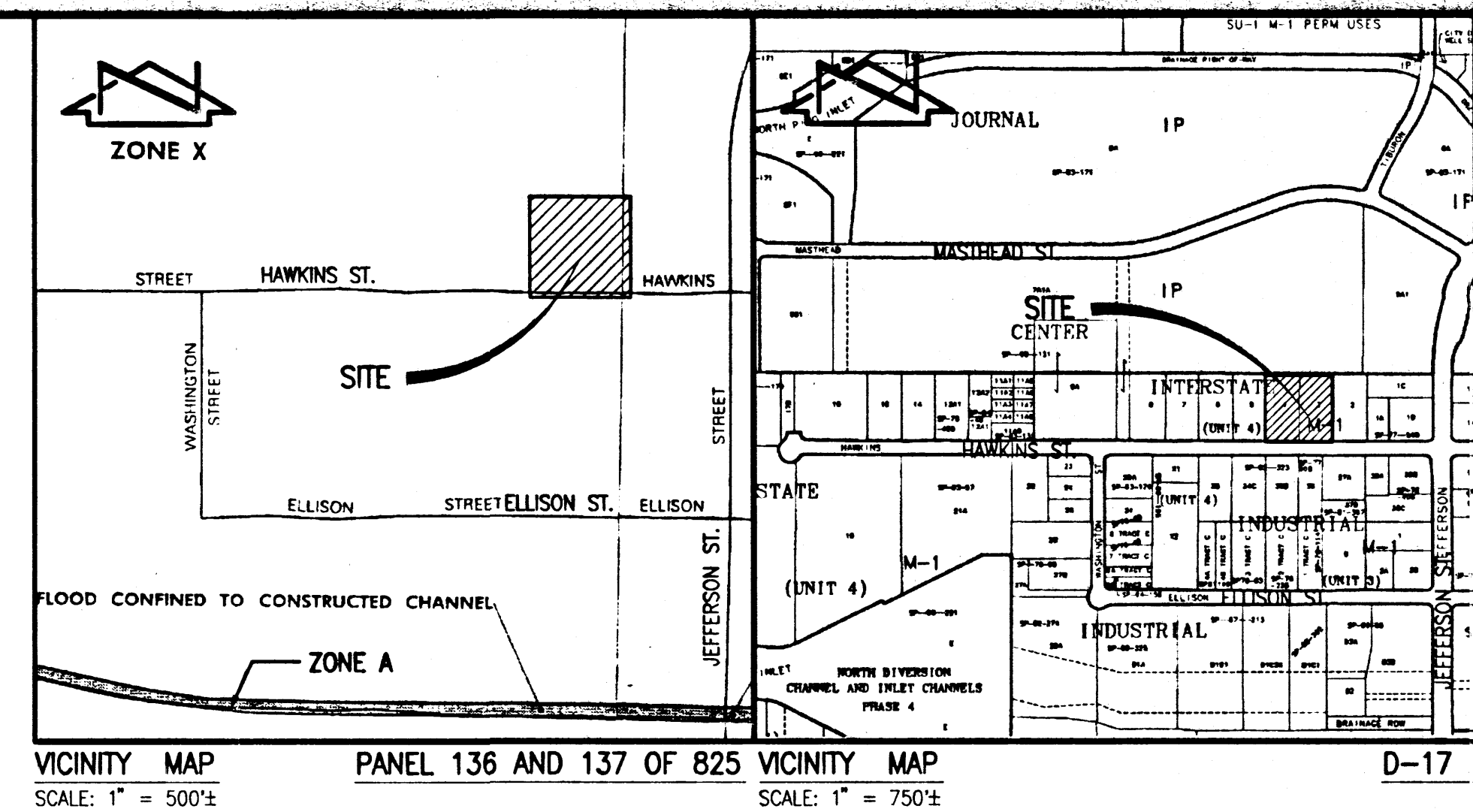
V11. CALCULATIONS

THE CALCULATIONS WHICH APPEAR HEREON ANALYZE BOTH THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT AS PREVIOUSLY SUBMITTED. NO NEW CALCULATIONS HAVE BEEN PERFORMED BECAUSE THERE WILL BE NO NET INCREASE IN IMPERVIOUS AREA; THERE WILL BE NO INCREASE IN RUNOFF ASSOCIATED WITH THE PROPOSED MECHANICAL EQUIPMENT ENCLOSURE ADDITION CONSTRUCTION.

V. CONCLUSION

THE CONTINUED DISCHARGE OF RUNOFF FROM THIS SITE TO HAWKINS NE IS APPROPRIATE DUE TO FOLLOWING FACTORS:

1. MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA
2. NO INCREASE IN DEVELOPED RUNOFF
3. PRESERVATION OF EXISTING SITE HYDROLOGY
4. NO IMPACT ON DOWNSTREAM FLOOD ZONES



LEGAL DESCRIPTION

LOTS 3 AND 4, INTERSTATE INDUSTRIAL TRACT, UNIT 5.

PROJECT BENCHMARK

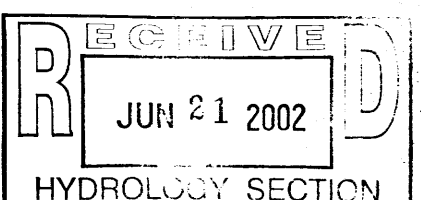
ACS STA "9-D-17"
ELEVATION = 5124.40 FT. (M.S.L.D.-1929)

T.B.M.

RIM ELEVATION OF SANITARY SEWER MANHOLE IN HAWKINS STREET N.E. OPPOSITE CENTER OF SITE.
ELEVATION = 5126.42 FT. (M.S.L.D.-1929)

LEGEND

+61.84	EXISTING SPOT ELEVATION
TA	TOP OF ASPHALT
TC	TOP OF CURB
FL	FLOW LINE
TSW	TOP OF SIDEWALK
TV	TOP OF WALL
TDG	TOP OF CONCRETE
SP	STEEL PLATE
TG	TOP OF GRATE
CD	CLEAN OUT
P.P.	POWER POLE
F.F.	FINISH FLOOR
NG	NATURAL GRADE
	EXISTING CONTOUR
	CONIFEROUS TREE
	DECIDUOUS TREE
	YUCCA
	SHRUB, TREE
	SHRUB, ROW OF
	PROPOSED SPOT ELEVATION
	FLOW DIRECTION
	FLOWLINE
	PROPOSED CONTOUR
	NEW ASPHALT
	NEW CONCRETE



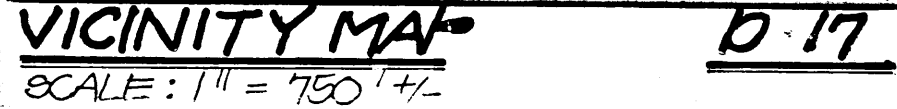
01-24-2002 10-25-2000

DRAINAGE CERTIFICATION AND DRAINAGE PLAN UPDATE MISSION LINEN AND UNIFORM

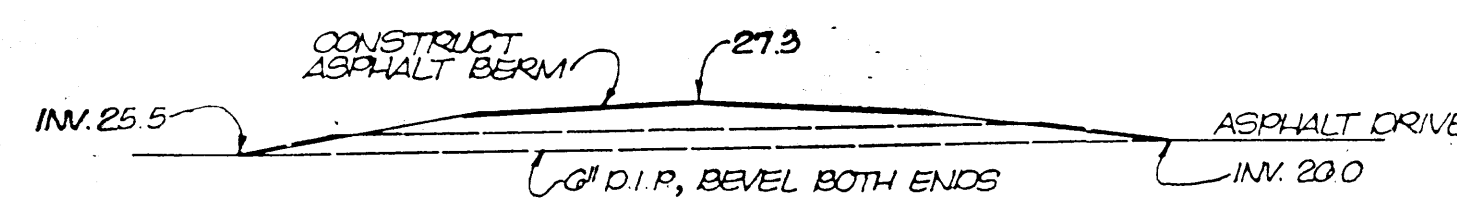
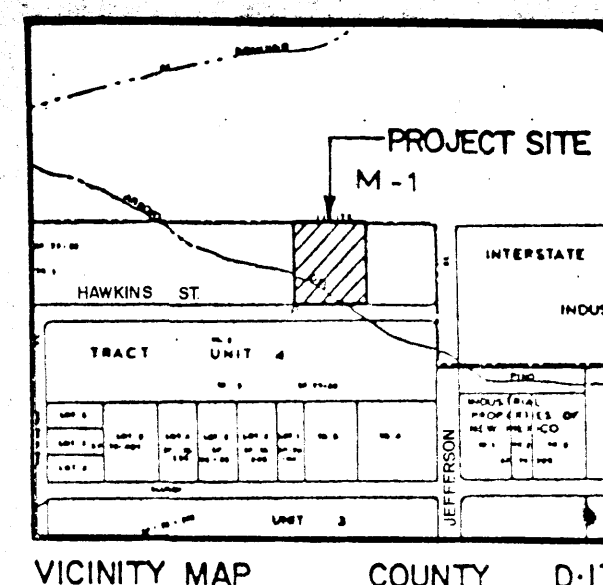
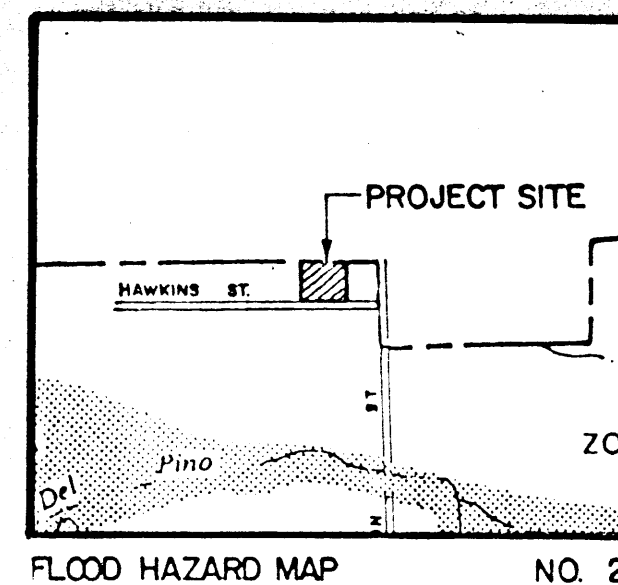
DESIGNED BY	DATE	BY	REVISIONS	JOB NO.
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DRAWN BY	DATE	BY	REVISIONS	DATE
J.P.R.	01/02	JGM	DRAINAGE PLAN MECHANICAL EQUIPMENT ENCLOSURE ADDITION	01/2002
	06/02	JGM	DRAINAGE CERT FOR MECH EQUIP ENCL ADDN	
APPROVED BY	DATE	BY	REVISIONS	SHEET
JGM				1 OF 3



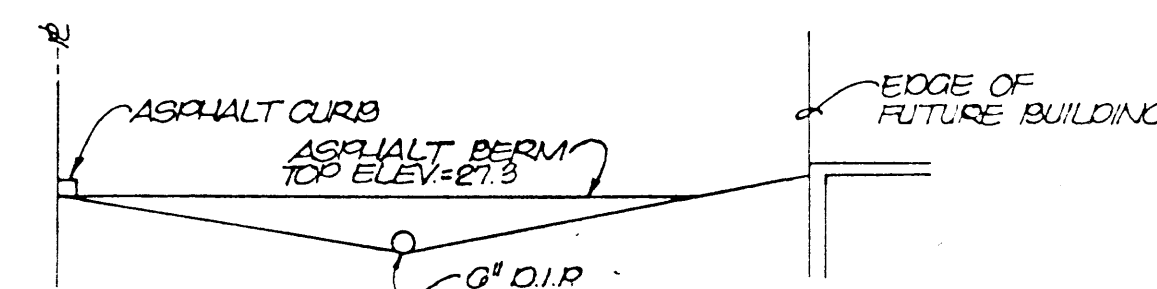
JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE, N.M. 87109
ENGINEERS & SURVEYORS 505/345-4250
FAX: 505/345-4254 Email: jmort@jmac.com



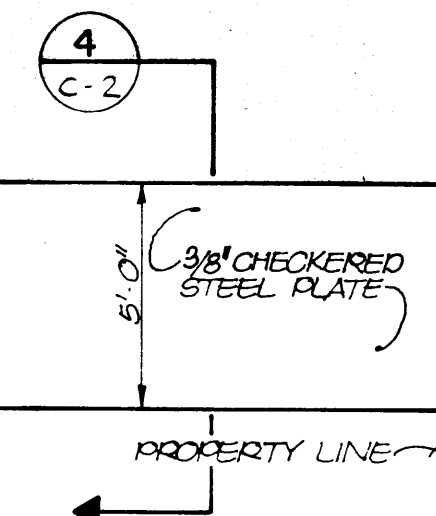
27.90



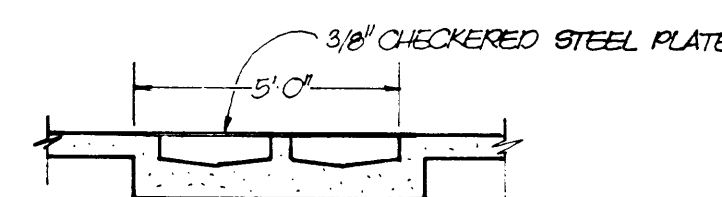
SECTION 1
3/16" = 1'-0"



SECTION 2
3/16" = 1'-0"



SECTION 3
1/4" = 1'-0"



SECTION 4
1/4" = 1'-0"

Within 15 days after completion of fill operations, the side slopes shall be disced to provide horizontal contours. The side slopes shall then be seeded with the following mixture of grasses:

Species	Variety or Origin	Pure Live Seed Lbs/Acre
Annual Rye Grass	New Mexico, Colorado, Ariz.	8.0
Giant dropseed	New Mexico	2.0
Sand dropseed	New Mexico	1.0
Indian ricegrass	Paloma	4.0
Sideoas grama	Vaughn	6.0
Total		21.0

DRAINAGE PLAN

The following items concerning the Ponca Warehouse Drainage Plan are contained hereon:

1. Vicinity Map
2. Flood Hazard Map
3. Grading Plan
4. Calculations

The proposed building is located on the north side of Hawkins Street N.E. The building will be used as warehouse spaces with associated parking for customers and employees.

The land basically slopes from southeast to northwest. The land to the east is higher than the project site. The land to the north is higher than the project site, but has been graded to slope away from the project site. Hawkins Street on the south is approximately parallel with the site, while the land to the west is lower than the site; therefore, any flows that could enter the site would be from the east. At the present time the land is undeveloped to the east, but as the subdivision is completed, all waters will be cut off from the east and diverted into Hawkins. If any runoff should occur at the present time, it would drain into the parking lot and be routed through the pond system; therefore, offsite drainage is not a problem. The project (1) does not lie in a floodplain, (2) does not lie adjacent to a natural or artificial water course and (3) has no drainage easements on the property.

Two (2) ponds will be constructed on the site to detain the flows. One pond will be constructed in the eastern parking lot and along the northern site of a future building extension. The pond will be asphalt lined since it is a parking lot, and will drain into the western parking lot in the ponding area through a controlled outlet. An asphalt berm will be constructed to act as a dam and spillway to regulate high flows. The ponding area in the western parking lot will drain into Hawkins at the southwest corner of the project site.

The Grading Plan shows (1) existing contours at 1'-0" intervals, (2) proposed grades indicated by spot elevations and contours, (3) swales, (4) continuity between proposed and existing elevations, (5) that all runoff will be conveyed into ponds before leaving the site, (6) that retaining walls will not be required and (7) that erosion will not result from construction or upland runoff.

CALCULATIONS

Area of Parcel = 88,800 sf = 2.04 ac
Pervious Area = 6,200 sf = 0.14 ac
Impervious Area = 82,600 sf = 1.90 ac
Composite $C_N = 79(\frac{1.90}{2.04}) + 98(\frac{0.14}{2.04}) = 97$
From Plate 4 Farmington percent ponding = 58%
Required Pond Volume = $(0.58)(88,800)2.5/12 = 10,730$ cf
Runoff - East Parking Lot = $75 \times 297 \times 2.5/12 = 4,641$ cf
Pond Volume - East Parking Lot = $\frac{1.5+15.0}{2}(400) + \frac{15+17}{2}(400)0.3 = 5,220$ cf
 Q_5 (East Parking Lot) = $0.40(5.4)0.51 = 1.1$ cfs
Orifice = $19.636 k d^2/\sqrt{h} = 19.636(0.61) d^2/\sqrt{1.3} : (7.5 \times 60) = 1.1$
 $d = 6.02"$ use 6" ductile iron pipe
Pond Volume - West Side = $24 \times 200 \times 0.5 + 12 \times 100 \times 0.25 + 36 \times 200 \times 0.5 = 6,400$ cf
Total Pond Volume = $6,400 + 5,220 = 11,620$ cf
 Q_5 (Entire Site) = $0.40(5.4)2.04 = 4.41$ cfs
Orifice = $4.4 = 19.636(0.61) d^2/\sqrt{1.2} : (7.5 \times 60)$
 $d = 12.28"$ = 474 sq. in. use 8"x60" sidewalk box opening.

LEGAL

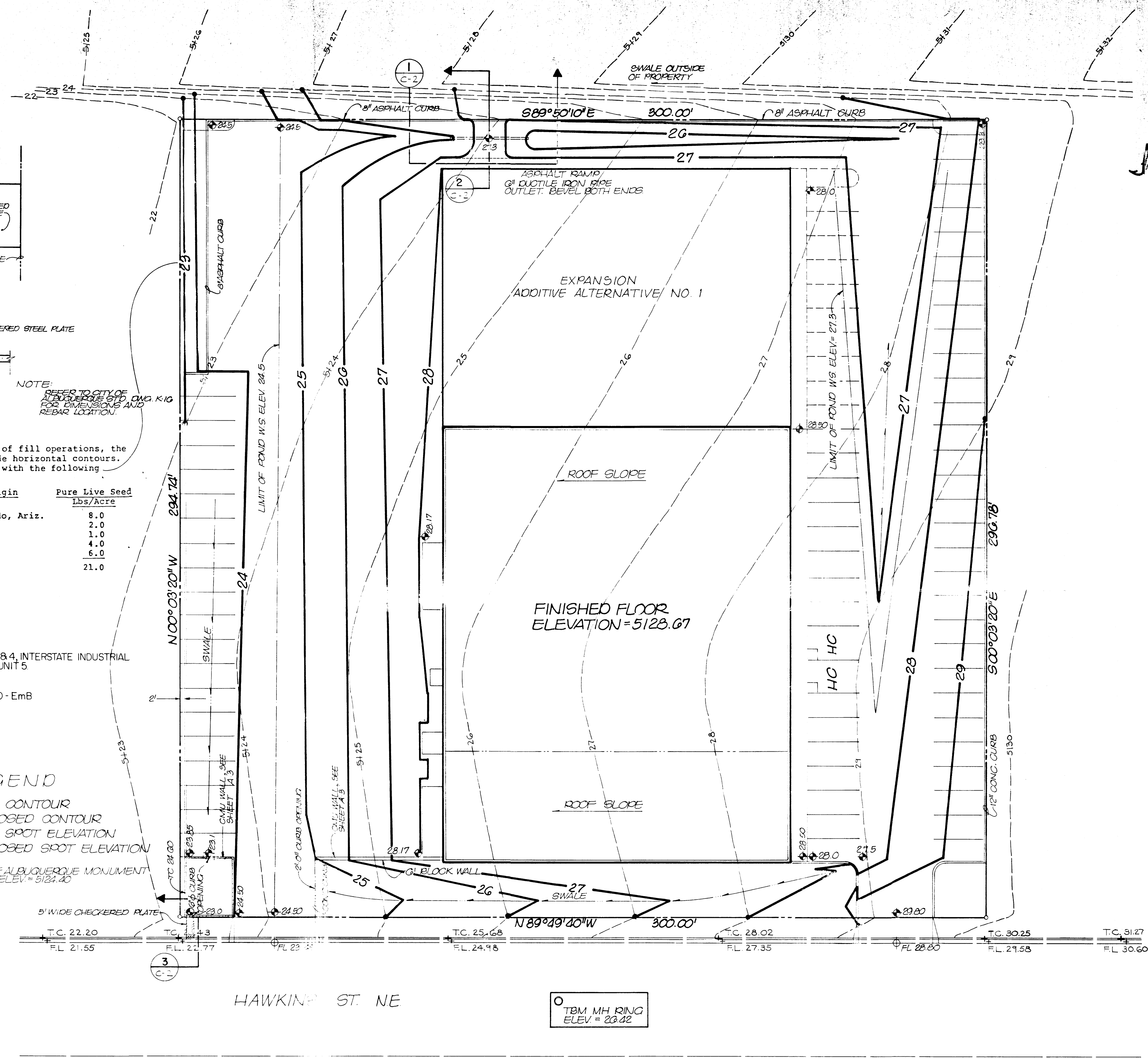
LOTS 3 & 4, INTERSTATE INDUSTRIAL TRACT, UNIT 5

SOILS

EMBUDO-EmB

LEGEND

- EXIST. CONTOUR
- PROPOSED CONTOUR
- EXIST. SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- CITY OF ALBUQUERQUE MONUMENT
9 D-17 ELEV. = 5124.40



RECORD DRAWING

FOR INFORMATION ONLY

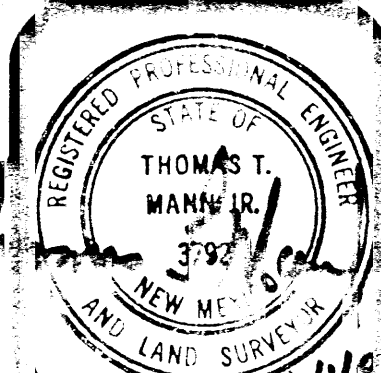
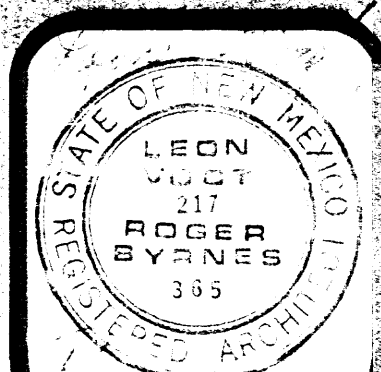
SITE GRADING PLAN

SCALE 1" = 20'

JOB No. I-1032

north

JUL 21 2002
HYDRA-TECH



VOGT & BYRNES, P.A.
ARCHITECTS-ENGINEERS

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App By
Date 10-26-81
Elev. 5124.40

AS APPROVED

C-2
3 OF 3
3 of 18