

PARKING LOT ADDITION FOR
THE BARELAS COMMUNITY CENTER
801 BARELAS, S.W.
ALBUQUERQUE, NEW MEXICO
CITY OF ALBUQUERQUE

PARKS AND RECREATION DEPARTMENT

CLASS I

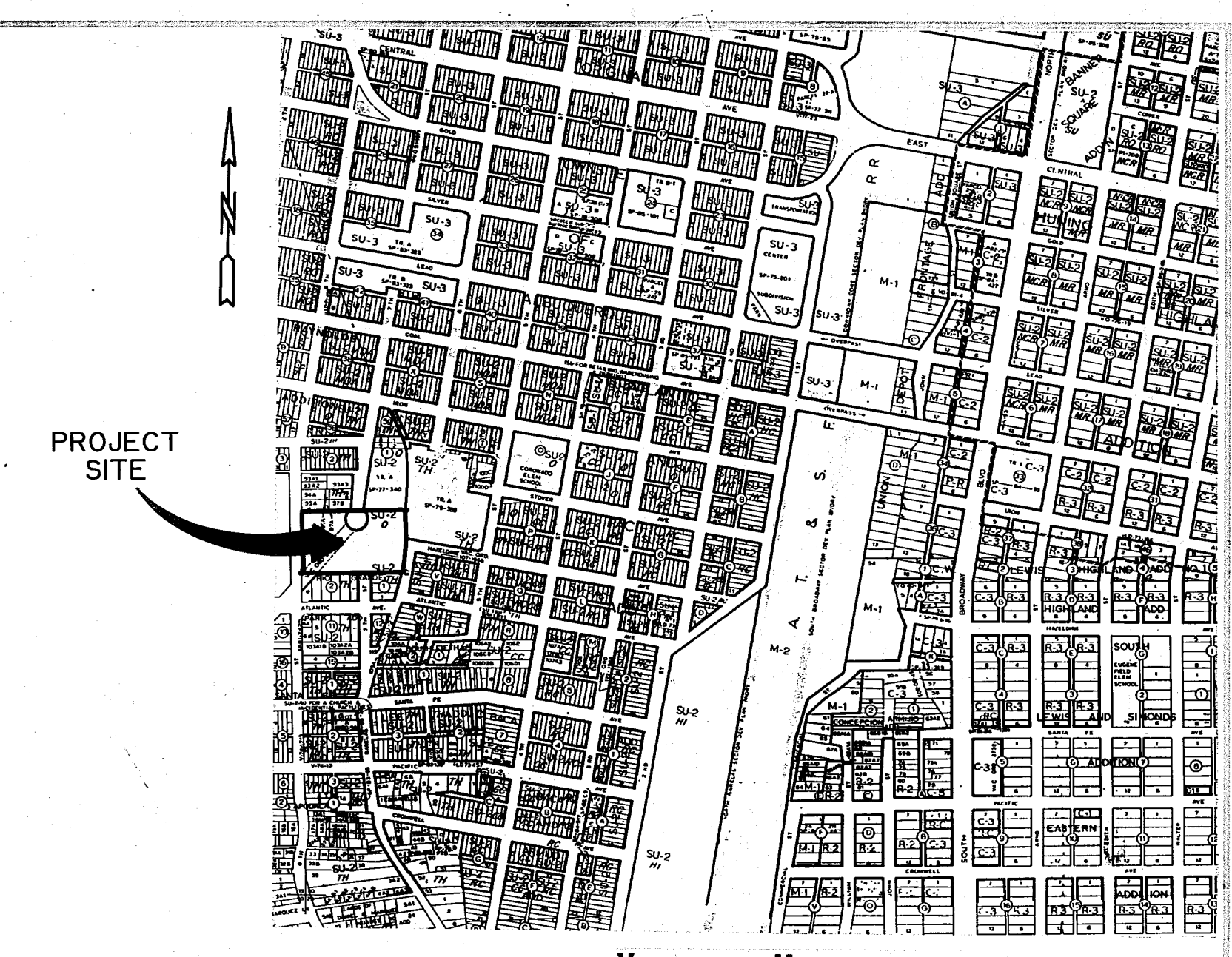
ASPHALT WORK, SUBBASE PREPARATION, SUBGRADE PREPARATION, PAINT STRIPING, CAR BUMPERS

CLASS II

EARTHWORK, ROUGH GRADING, CURB & GUTTER, HEADER CURB, SIDEWALK, DEMOLITION,
DRIVE PAD, DUMPSTER PAD, SPRINKLER SYSTEM MODIFICATION

INDEX OF DRAWINGS

- 1. COVER SHEET
- 2. PARKING LOT RENOVATION
- 3. GRADING AND DRAINAGE PLAN



VICINITY MAP
ZONE ATLAS PAGE K-14
SCALE: 1" = 800' ±

- GENERAL NOTES:
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986.
 - TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTRACT LINE LOCATING SERVICE, 260-1779 FOR LOCATION OF EXISTING UTILITIES.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 - 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.
 - WHERE REMOVAL OF EXISTING CURBS AND GUTTERS, SIDEWALK OR PAVEMENT IS REQUIRED, CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER SHOWN ON THESE PLANS AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT, WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
 - BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
 - IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
 - SIGNAGE FOR HANDICAP SPACES SHALL BE THE RESPONSIBILITY OF THE CITY OF ALBUQUERQUE AND SHALL NOT BE INCLUDED IN THIS CONTRACT.

REV. 6-6-90 TG

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 4/10/90

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4107.90 0195

REV.	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE
APPROVAL OF REVISIONS							

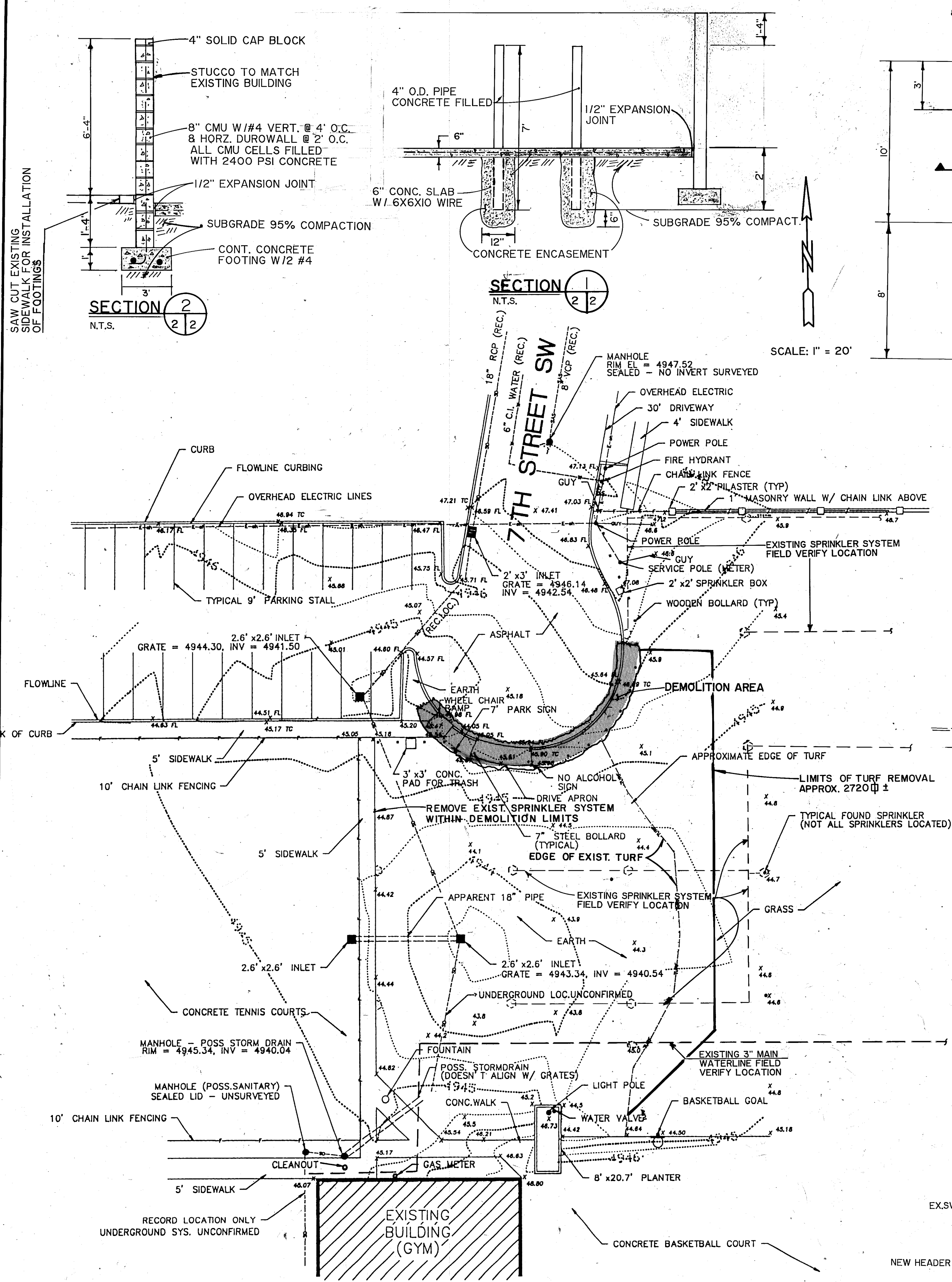
RECORDED & RETURNED
NEW MEXICO
4457
4-25-90

TEC TIERRA ENGINEERING CONSULTANTS INC.
SANTA FE & ALBUQUERQUE N.M.

APPROVED FOR CONSTRUCTION
DATE 6-11-90

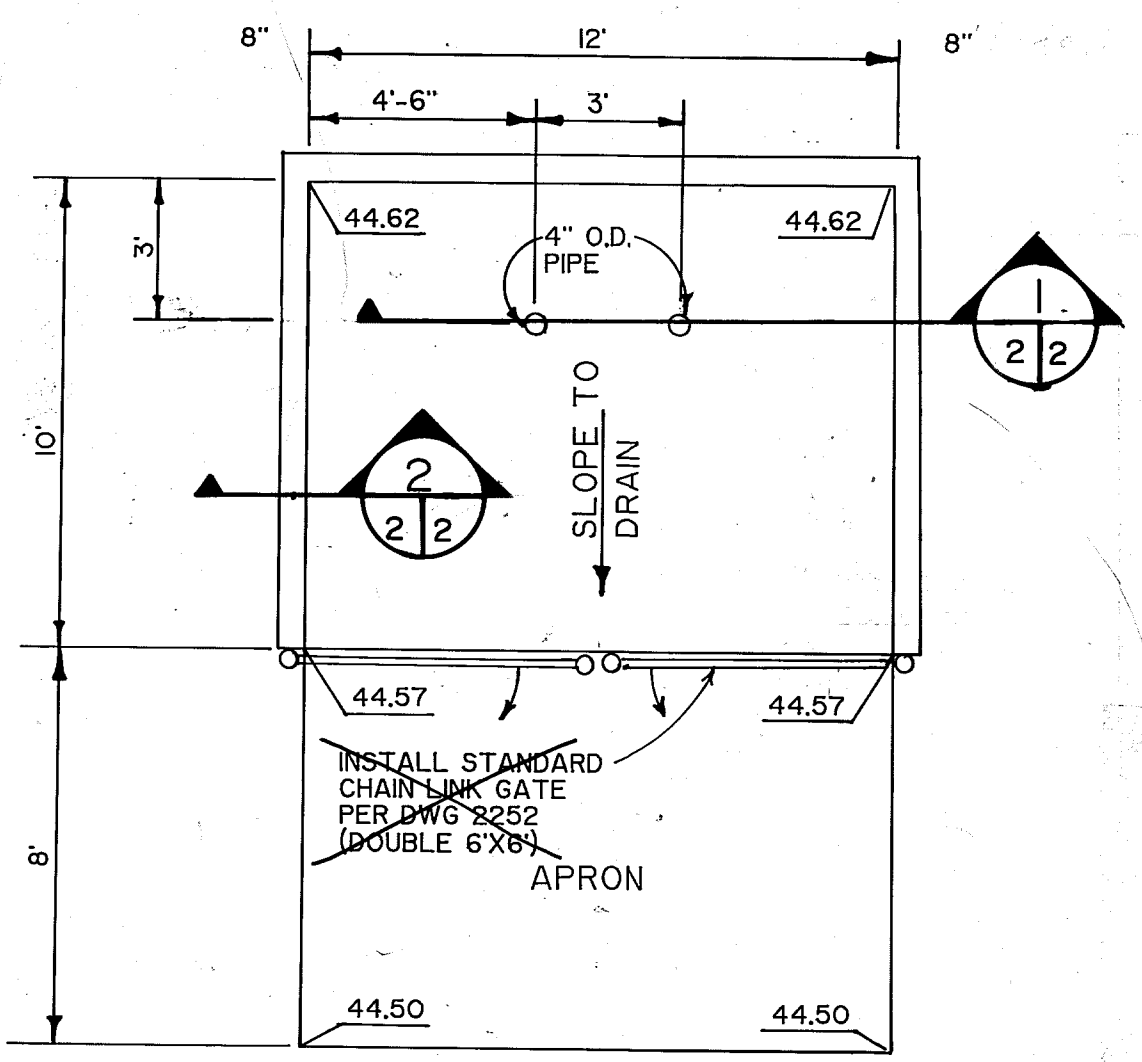
4107.90

SHEET 1 OF 3



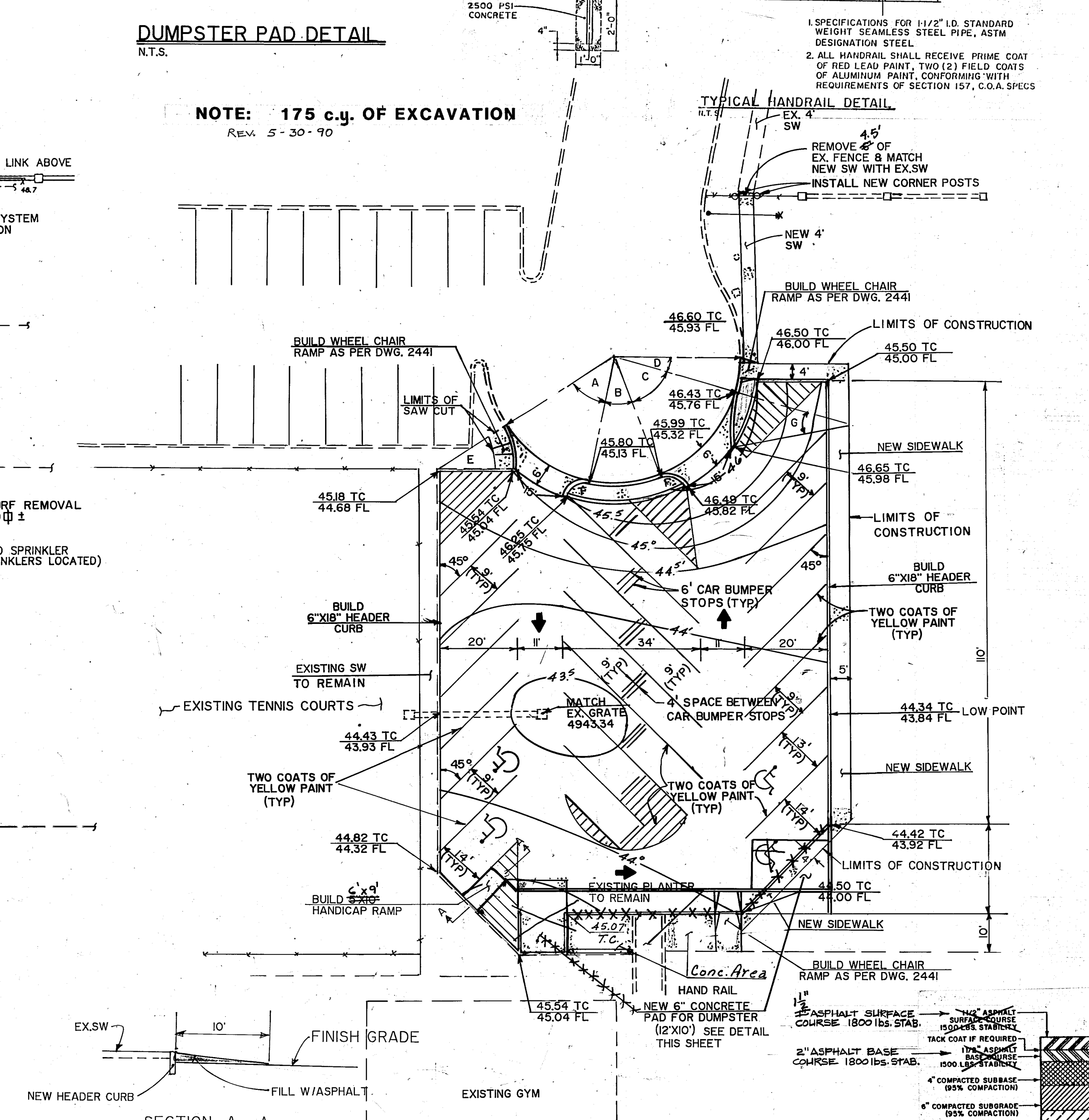
**BARELAS COMMUNITY CENTER
(EXISTING)**

DEMOLITION PLAN



DUMPSTER PAD DETAIL

NOTE: 175 c.y. OF EXCAVATION
REV. 5-30-90

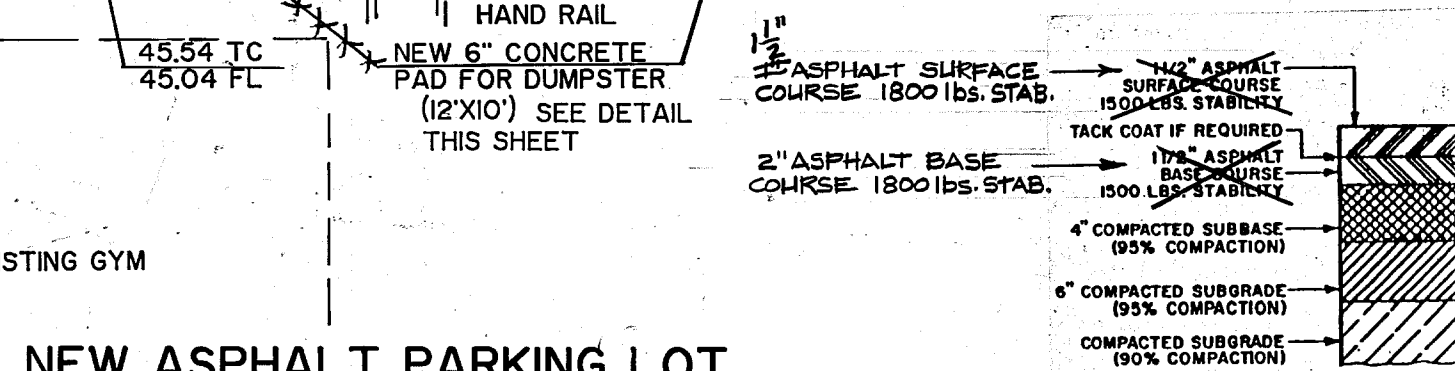


NEW ASPHALT PARKING LOT

PAVING PLAN

- 21 REGULAR SPACES
- 3 HANDICAP SPACES
- 24 TOTAL PARKING SPACES
(AS-BUILT QUANTITY)

ASPHALT CONCRETE
PAVEMENT SECTION
REV. 5-23-90 T.G.



SECTION A - A

- NOTES:**
- CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING MAIN WATER LINE FOR SPRINKLER SYSTEM AND SEWER SERVICE LINE WHICH IS LOCATE UNDER THE PARKING LOT BEFORE COMMENCING WORK.
 - CONTRACTOR TO FIELD VERIFY LOCATION OF SPRINKLER SYSTEM LINE GOING INTO PARKING LOT AND CUT CAP THEM 1 FOOT EAST OF NEW SIDEWALK. REMOVE ALL EXISTING SPRINKLER LINES AND HEADS WITHIN THE NEW CONSTRUCTION. ABANDON EXIST. IRR. PIPE LINES IN PLACE WHERE POSSIBLE.
 - REMOVE ALL WOODEN AND STEEL BOLLARDS THAT FALL INSIDE NEW CONSTRUCTION.
 - ALL SIGNS TO BE REMOVED BEFORE CONSTRUCTION AND RESET AT NEW LOCATION. LOCATION OF SIGNS TO BE DETERMINED BY PARKS AND REC. DEPARTMENT.

- DUMPSTER**
NOTES AND SPECIFICATIONS:
- DIMENSIONS GIVEN ARE TO THE INSIDE OF ENCLOSURE WALLS AND ARE THE MINIMUM SIZES REQUIRED FOR THE SLAB ITSELF. FOOTING WILL VARY WITH DESIGN OF ENCLOSURE.
 - 4" O.D. CONCRETE FILLED PIPE SHALL BE ENCASED IN 6" CONCRETE ALL AROUND AND IMBEDDED 2'-0".
 - IT IS NOT THE INTENTION OF THE REFUSE DEPARTMENT TO CONTROL THE DESIGN OF ENCLOSURE, ITS INTENT IS TO GIVE MINIMUM WIDTH, LENGTH AND HEIGHT FOR VARIOUS TYPES OF ENCLOSURES.
 - ANY ADDITIONAL INFORMATION CONCERNING THE ABOVE MAY BE OBTAINED BY CALLING YOUR SERVICE REPRESENTATIVE AT 766-7789.
 - CONCRETE SLAB 6" THICK; 3,000 PSI, 3/4" AGG., W/6x6-10/10MM OR EQUAL 12'-0" x 6'-0" WITH 1/2" EXPANSION JOINT.
 - APRON 6" THICK; 3,000 PSI, 3/4" AGG., W/6x6-10/10MM OR EQUAL 12'-0" x 6'-0" WITH 1/2" EXPANSION JOINT.
 - FOOTING AS REQUIRED BY DESIGN.
 - ENCLOSURE WALLS 5'-4" HIGH; FOR A 4 CUBIC YARD LIFT-BIN AND 6'-0" HIGH; FOR A 6 CUBIC YARD LIFT-BIN. MASONRY: MUD; SHRUBS OR CHAIN LINK WITH SLOTS.

LEGEND

	EXISTING	NEW
STD. CB. & GTR.	---	---
HEADER CURB	---	---
SIDEWALK	---	---
CONTOURS	---	---
STORM SYSTEM	---	---
WHEEL CHAIR RAMP	---	---
STRIPED AREAS	---	---
SPRINKLER HEADS	---	---
SPRINKLER SYSTEM	---	---

NOTE:
All areas presently covered by grass shall be excavated to a depth of two feet below existing grade. The material excavated is to be dried to -1% to +3% of optimum moisture and recompacted to a density of not less than 95% of maximum density as determined by ASTM D 698.

CURVE DATA

DELTA	RADIUS	ARC	TAN.	CURVE
45°00'00"	32.00'	25.13'	13.25'	A
34°00'00"	32.00'	18.99'	9.17'	B
32°30'00"	32.00'	29.32'	15.78'	C
14°30'00"	32.00'	8.10'	4.07'	D
33°00'00"	20.00'	11.52'	5.92'	E
95°00'00"	5.00'	8.29'	5.46'	F
26°00'00"	30.00'	13.61'	6.93'	G

REVISIONS

NO.	DATE	REMARKS
1	7-12-90	Added Dumpster Detail
2	7-25-90	Excavation & Dry process Note

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

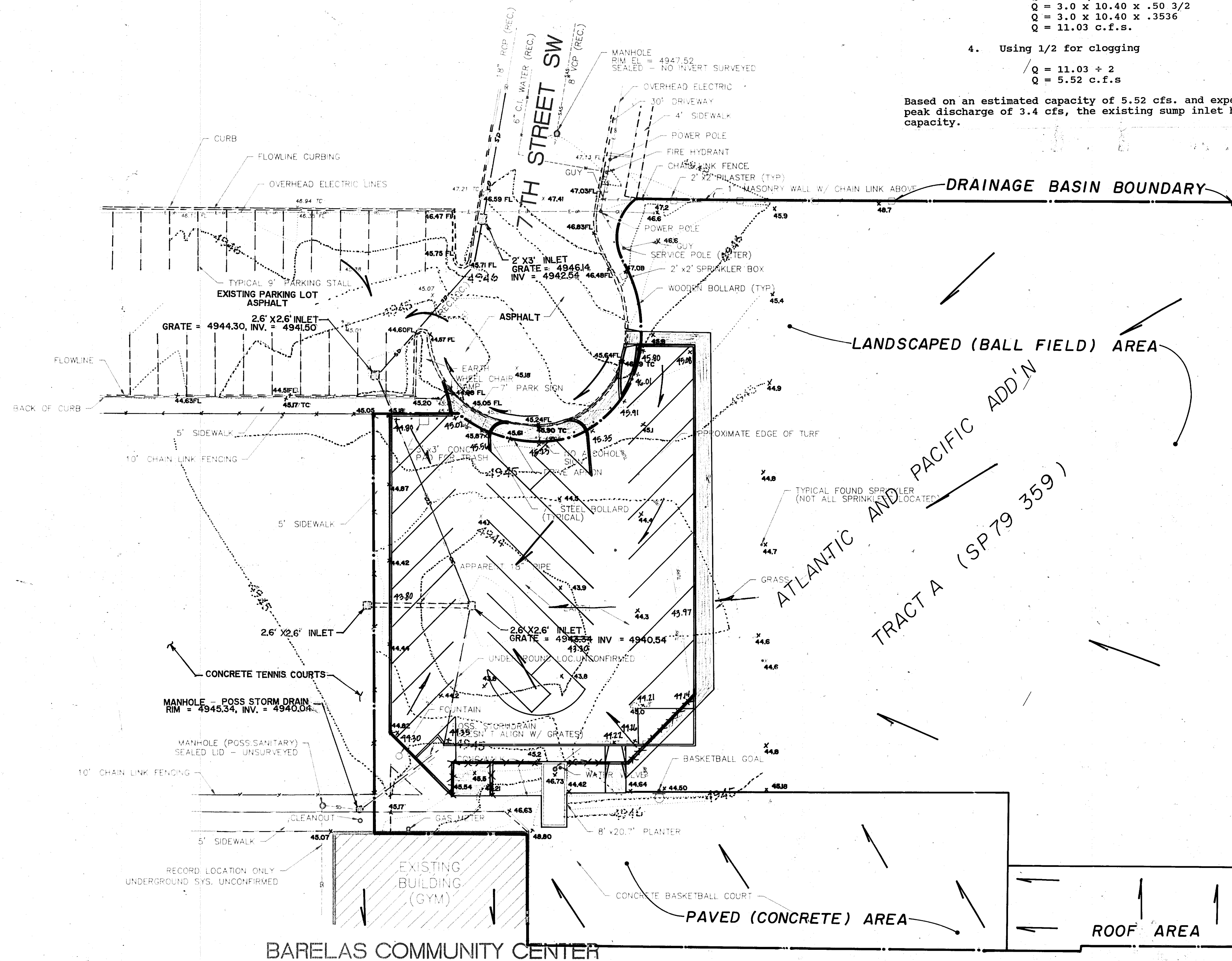
**TITLE: BARELAS COMMUNITY CENTER
PARKING LOT RENOVATION
DEMOLITION & CONSTRUCTION PLAN**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Donna Shaw	6-8-90			
Trans. Dev.	N/A	6-6-90			
Utility Dev.	N/A	6-6-90			
HYDROLOGY	A. Alby	10-10-90			

DRAWING NO. 4107.90

MAP NO. K-14

SHEET 2 OF 3



DRAINAGE ANALYSIS		AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN																															
		CONTRACTOR <i>Frederic Construction</i>		FIELD NOTES		NO. DATE		NO. DATE		REMARKS		DESIGNED BY M.Y. DATE 1-27-90																															
		WORK ORDER NO. <i>C.O.A.</i>		CURB ON EIGHTH STREET, AND 225' SOUTH OF STOVER		BY DATE		BY DATE		DRAWN BY C.C. DATE 2-13-90		CHECKED BY R.C. DATE 2-17-90																															
		FIELD ACCEPTANCE BY <i>Rick Dureau</i> DATE		AVE. ELEVATION 4944.026																																							
		DRAWINGS CORRECTED BY <i>R. Dureau</i> DATE																																									
		MICRO-FILM INFORMATION																																									
		RECORDED BY																																									
		NO																																									
A. SCOPE OF PURPOSE The City of Albuquerque is planning to increase the paved parking capacity at the Barelbas Community Center. This plan is to present a grading and drainage scheme; and to quantify the expected increase in the expected storm run-off generated by this paving project. All drainage calculations are based on the City of Albuquerque <u>Development Process Manual</u>, Volume II, Chapter 22.																																											
B. EXISTING CONDITIONS The proposed parking lot addition is to be located in the playground area of the Community Center. More specifically, it is in the outfield of a small baseball field. The existing ground treatment is a combination of irrigated grass turf and uncovered dirt. According to the U.S. Soil Conservation Service's <u>Soil Survey of Bernalillo County and Parts of Sandoval and Valencia Counties, New Mexico</u> the soils on the site are representative of the Brazito Soil Series which fall under SCS Hydrologic Group A. The proposed parking lot addition is part of a small drainage basin that drains primarily from west to east. The runoff is collected in an existing drop inlet that is part of the City of Albuquerque's storm drain system. The expected run-off from existing conditions is as follows: - Basin Size = 57,479 SF = 1.320 AC. - Paved Area = 8,779 SF - Roof Area = 1,906 SF - Sodded Area = 37,954 SF - Undeveloped Area = 8,940 SF 6-Hour, 100-Year Rainfall = 2.35 in. - Time of Concentration (Tc) = 10 min. (by observation) - Intensity (I) - 2.35 (6.84) (10) = 4.967 in./hr. - Composite C = $\frac{.95(8,779) + .90(1,906) + .25(37,954) + .40(8,940)}{57,479}$ - pervious Curve Number (CN) = 49 - Percent Impervious = $\frac{8,779 + 1,906}{57,479} = 18.6\%$ - Composite Curve Number (CN) = 58 - Runoff (R) = 0.15 in. - Discharge (Q100) = (.402)(4.967)(1.320) = <u>2.64 cfs</u> - Volume (V100) = 0.15 (1.320) (3,630) = <u>719 CF</u>																																											
C. POST CONSTRUCTION CONDITIONS The proposed parking lot addition has been designed so that it does not change the existing drain pattern. Based on discussion with the City of Albuquerque engineering staff, free discharge is appropriate provided that the drop inlet has sufficient capacity. The expected runoff from post construction conditions is as follows: - Basin Size = 57,479 = 1.320 AC. - Paved Area = 20,833 SF - Roof Area = 1,906 SF - Sodded Area = 34,740 SF - Undeveloped Area = 0 SF 6-Hour, 100-Year Rainfall = 2.35 in. - Time of Concentration (Tc) = 10 min. - Intensity (I) = 4.967 in./hr. - Composite C = $\frac{.95(20,833) + .90(1,906) + .25(34,740)}{57,479}$ - Pervious Curve Number (CN) = 49 - Percent Impervious = $\frac{20,833 + 1,906}{57,479} = 39.6\%$ - Composite Curve Number (CN) = 68 - Run off (R) = 0.40 in. - Discharge (Q100) = (.525)(4.967)(1.320) = <u>3.44 cfs</u> - Volume (V100) = 0.40(1.320) (3,630) = <u>1,917 CF</u> - Net Increase in Discharge = 3.44 - 2.64 = 0.80 cfs - Net Increase in Volume = $1917 \times .719 = 1,198 \text{ CF}$																																											
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP TITLE: BARELAS COMMUNITY CENTER PARKING LOT RENOVATION DRAINAGE PLAN <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>APPROVALS</th> <th>ENGINEER</th> <th>DATE</th> <th>APPROVALS</th> <th>ENGINEER</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRC Chair</td> <td><i>Rick Dureau</i></td> <td>6-8-90</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Trans Dev</td> <td><i>L. Dureau</i></td> <td>6-6-90</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Utility Dev</td> <td><i>N/A</i></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>Hydrology</i></td> <td><i>H. Alden</i></td> <td>05-10-90</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> DRAWING NO. <i>4107.90</i> MAP NO. K-14 SHEET 3 OF 3														APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE	DRC Chair	<i>Rick Dureau</i>	6-8-90				Trans Dev	<i>L. Dureau</i>	6-6-90				Utility Dev	<i>N/A</i>					<i>Hydrology</i>	<i>H. Alden</i>	05-10-90			
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