

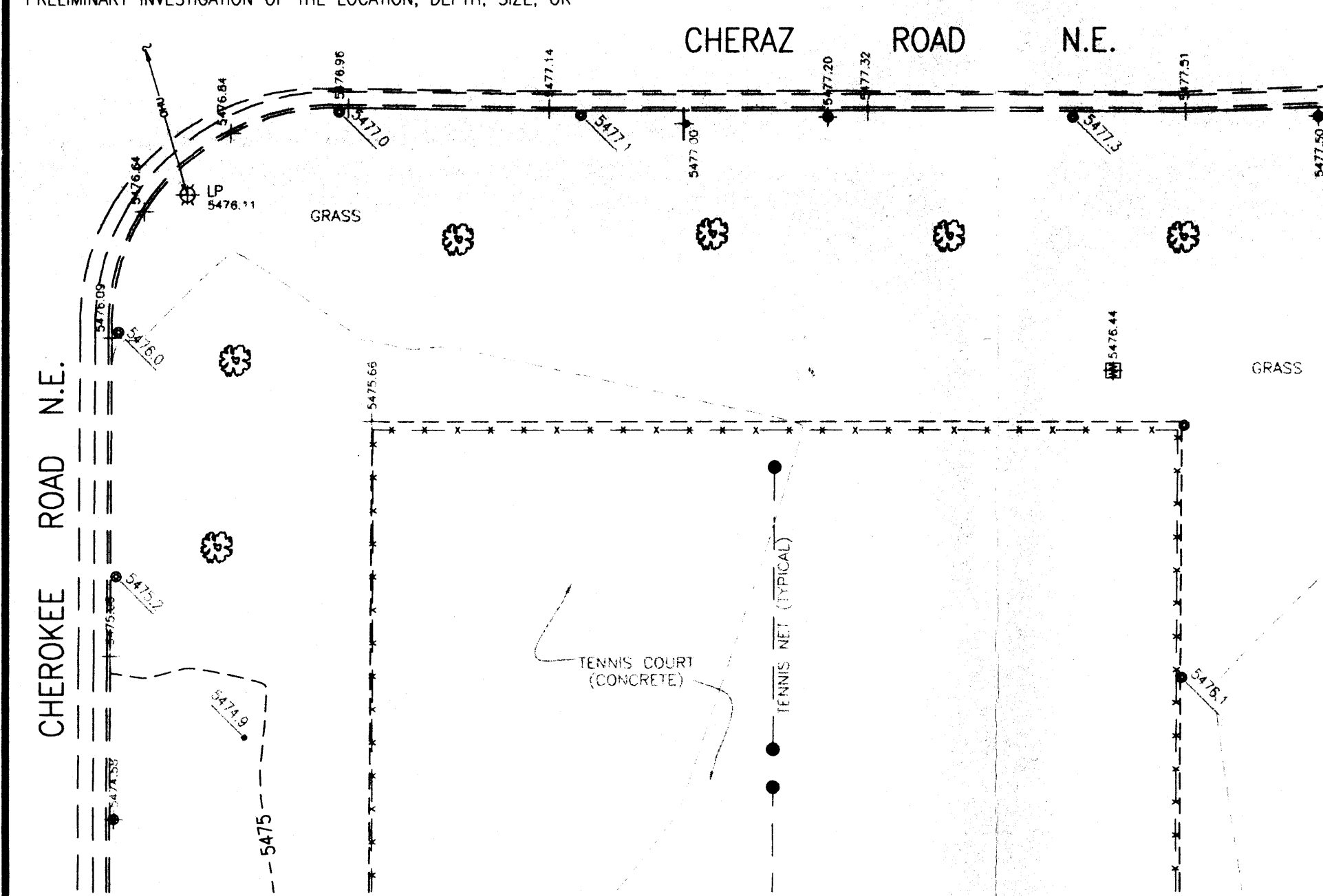
VICINITY MAP
SCALE: 1" = 750'±
G-20 FLOODPLAIN MAP PANEL 356 OF 825
SCALE: 1" = 500'±

CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO APPROXIMATE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 (ALBUQUERQUE AREA), 1-800-321-ALERT(2537), (STATEWIDE); FOR LOCATION OF EXISTING UTILITIES.
- 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.
- 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.
- ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- 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.

EROSION CONTROL MEASURES:

- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- 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.
- THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.



CHEROKEE ROAD N.E.
CHERAZ ROAD N.E.
MOON ST.
HEADINGLY PLACE N.E.

I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN THE NORTHEAST HEIGHTS EAST OF MOON NE AND SOUTH OF COMANCHE NE, REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE DRAINAGE CONCEPT WILL BE THE CONTINUED FREE DISCHARGE OF RUNOFF TO THE EXISTING CITY STREETS. FROM THIS POINT, DEVELOPED RUNOFF FLOWS WITHIN MOON NE TO ENTER THE PUBLIC STORM DRAIN WITHIN THAT PUBLIC RIGHT-OF-WAY.

✓ THIS SUBMITTAL IS MADE IN SUPPORT OF A DRC WORK ORDER PROJECT FOR A RELATIVELY SMALL RENOVATION OF THIS EXISTING PARK SITE.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED AT THE SOUTHEAST CORNER OF THE SITE AT THE NORTHWEST CORNER OF THE INTERSECTION OF CHERAZ NE HEADINGLY NE. AS SHOWN BY PANEL 378 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 A DESIGNATED FLOOD HAZARD ZONE (ZONE A). A DESIGNATED AO (DEPTH 1) ZONE IS IDENTIFIED WITHIN MOON STREET NE DOWNSTREAM FROM THE SITE. THE FLOOD PLAN AS MAPPED LEAVES THE PUBLIC RIGHT-OF-WAY AT MESCALERO ROAD NE AND CROSSES THE MADISON MIDDLE SCHOOL SITE TO EVENTUALLY ENTER COMANCHE ROAD NE, ANOTHER AO (DEPTH 1) ZONE. THE FLOOD PLAN ACROSS THE APS SITE WAS EFFECTIVELY REMOVED IN 1993 BY THE CONSTRUCTION OF THE MOON STREET NE STORM DRAIN (CITY PROJECT NO. 455190). THE MOON STREET STORM DRAIN CONTAINED THE FLOODING TO PUBLIC RIGHT-OF-WAY, THEREBY ALLEVIATING A DOWNSTREAM FLOOD HAZARD. THIS PROJECT DOES NOT PROPOSE TO SIGNIFICANTLY ALTER OR ADVERSELY AFFECT THE EXISTING

PROJECT BENCHMARK
NONE PROVIDED

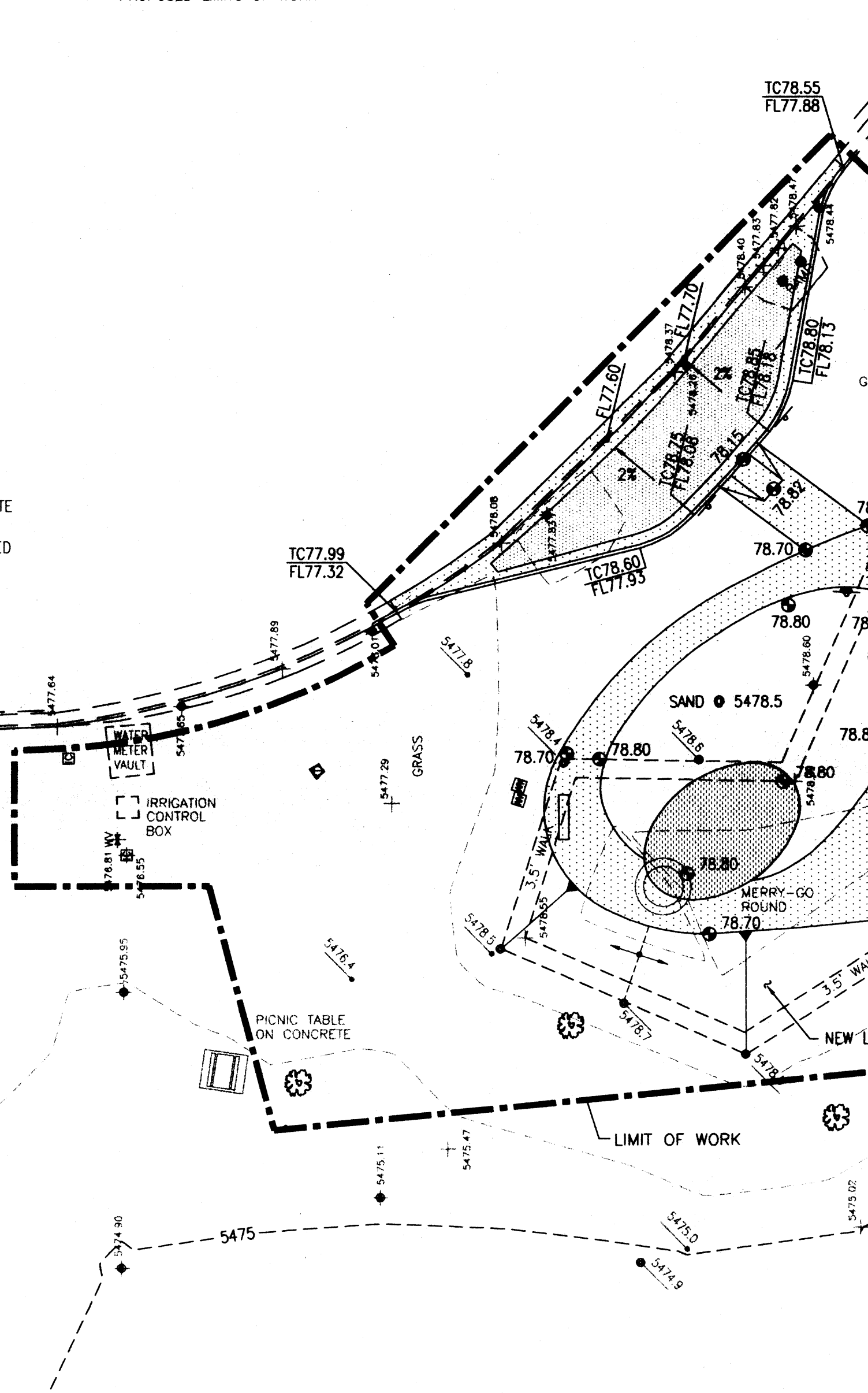
T.B.M.
NONE PROVIDED

LEGAL DESCRIPTION
AZTEC PARK, AZTEC ADDITION

LEGEND

- EXISTING SPOT ELEVATION
- EXISTING CONTOUR
- PROPOSED CONCRETE
- PROPOSED RESILIENT SURFACE
- PROPOSED ASPHALTIC CONCRETE
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED LIMITS OF WORK

SCALE: 1" = 20'



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III. BACKGROUND DOCUMENTS

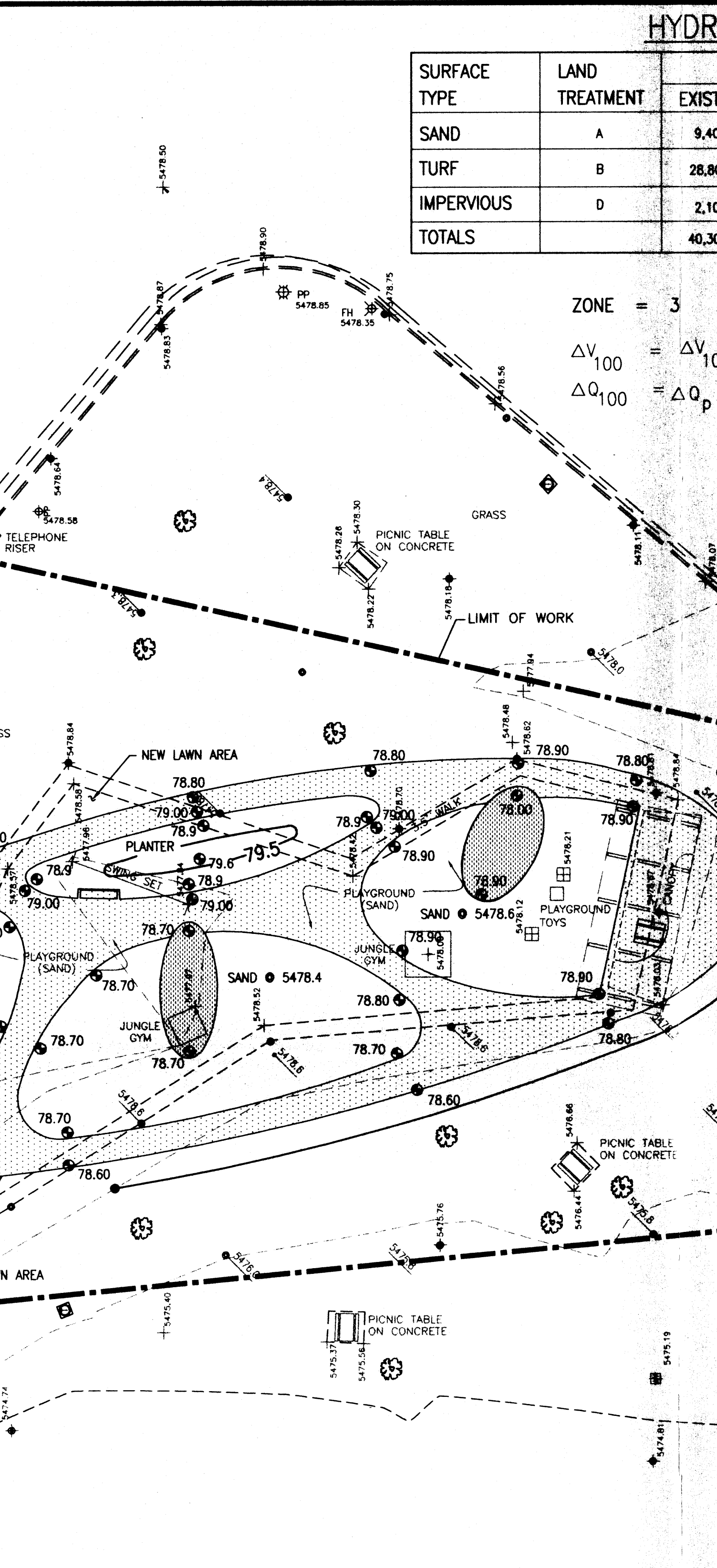
REVIEW OF HYDROLOGY DEVELOPMENT DIVISION RECORDS INDICATES NO PREVIOUSLY SUBMITTED AND/OR APPROVED DRAINAGE SUBMITTALS FOR THIS SITE. CITY PROJECT NO. 455190 WAS REVIEWED AND REFERENCED IN THE PREPARATION OF THIS SUBMITTAL AS DETAILED IN THE PRECEDING SECTION.

IV. EXISTING CONDITIONS

AT PRESENT, THE SITE IS ALREADY DEVELOPED AS A CITY PARK. EXISTING CONDITIONS ARE ILLUSTRATED BY THE GRADING PLAN. RUNOFF GENERATED BY THIS PORTION OF THE PARK DRAINS FROM EAST TO WEST ACROSS EXISTING TURF TO DISCHARGE VIA SHEET FLOW INTO MOON STREET NE. FROM THIS POINT, RUNOFF FLOWS NORTH TO ENTER THE MOON STREET STORM DRAIN. ONCE ENTERING THE STORM DRAIN, RUNOFF FLOWS NORTH TO BE INTERCEPTED BY THE EXISTING PUBLIC FACILITIES WITHIN COMANCHE NE. THE OUTFALL FOR THIS SITE.

V. DEVELOPED CONDITIONS

THE PROPOSED CONSTRUCTION CONSISTS OF THE PAVING OF TWO HANDICAP PARKING SPACES ALONG CHERAZ NE. THE RENOVATION OF THE EXISTING SAND PLAY AREAS, THE CONSTRUCTION OF NEW SIDEWALK FOR ACCESSIBILITY, AND



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VI. GRADING PLAN

THE GRADING PLAN SHOWS 1.) EXISTING GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS AS DEPICTED BY TOPOGRAPHIC SURVEY PROVIDED BY THE CITY, 2.) PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 3.) THE LIMIT AND CHARACTER OF THE EXISTING IMPROVEMENTS AS DEPICTED ON THE ABOVE REFERENCED SURVEY, 4.) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS, AND 5.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. AS SHOWN BY THIS PLAN, THE SITE IS ALREADY DEVELOPED AND THE PROPOSED IMPROVEMENTS AFFECT ONLY A SMALL PORTION OF THE SITE. THIS PLAN FURTHER ILLUSTRATES THE DRAINAGE PATTERNS DESCRIBED IN THE SECTION ABOVE.

VII. CALCULATIONS

THE CALCULATIONS APPEARING 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 CHANGES IN PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS SHOWN BY THESE CALCULATIONS, THERE WILL BE A MINOR INCREASE IN THE PEAK DISCHARGE AND RUNOFF VOLUME ASSOCIATED WITH THE PROPOSED CONSTRUCTION.

VIII. CONCLUSION

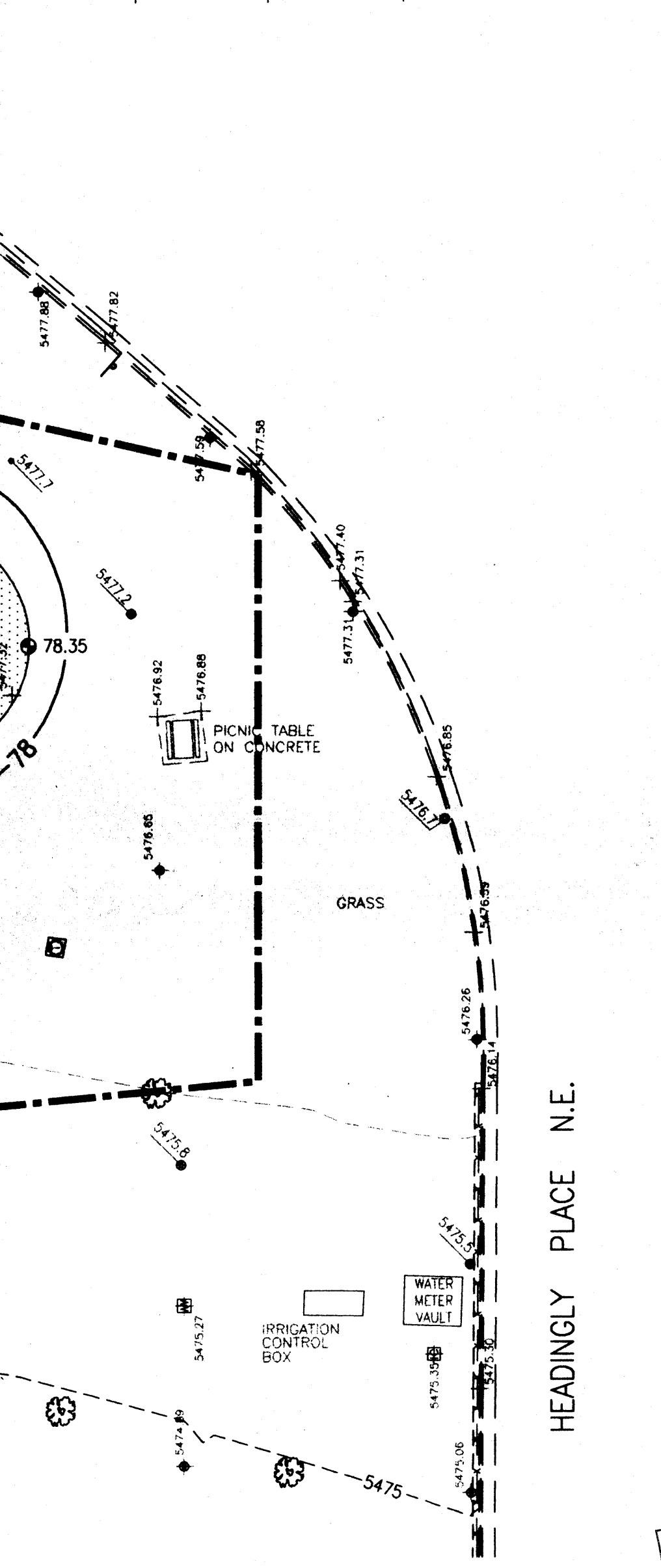
THE CONTINUED FREE DISCHARGE OF RUNOFF FROM THIS SITE TO MOON STREET NE IS APPROPRIATE DUE TO FOLLOWING FACTORS:
A. MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA
B. NEGLIGIBLE INCREASE IN PEAK DISCHARGE GENERATED BY THE SITE
C. NEGLIGIBLE INCREASE IN DEVELOPED RUNOFF VOLUME
D. PROXIMITY TO DOWNSTREAM FACILITIES AND APPARENT DOWNSTREAM CAPACITY
E. NO ADVERSE IMPACT ON ADJACENT OR DOWNSTREAM FLOOD ZONES

ALL ONSITE IMPROVEMENTS ARE OWNED, OPERATED AND MAINTAINED BY THE CITY PARKS AND GENERAL SERVICES DEPARTMENT. THE DOWNSTREAM STREETS AND STORM DRAINAGE SYSTEMS ARE OWNED, OPERATED AND MAINTAINED BY THE CITY PUBLIC WORKS DEPARTMENT.

HYDROLOGIC COMPARISON							
SURFACE TYPE	LAND TREATMENT	A R E A S			E	ΔV_{100}	Q_p
		EXISTING	PROPOSED	Δ			
SAND	A	9,400	5,700	<3700>	0.66	-200	1.87
TURF	B	28,800	25,850	<2950>	0.92	-230	2.60
IMPERVIOUS	D	2,100	8,750	+6650	2.36	+1310	5.02
TOTALS		40,300	40,300			+870CF	+0.13CFS

ZONE = 3

$$\Delta V_{100} = \Delta V_{100} = (\Delta A_{A E} + \Delta A_{B E} + \Delta A_{D E}) + 12$$
$$\Delta Q_{100} = \Delta Q_p = (\Delta A_{A Q} + \Delta A_{B Q} + \Delta A_{D Q}) + 43560$$



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IX. CONSTRUCTION MEASURES

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.

X. EROSION CONTROL MEASURES

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.

XI. EROSION CONTROL MEASURES

3. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.

XII. EROSION CONTROL MEASURES

4. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.

AS BUILT INFORMATION			
CONTRACTOR	CITY OF ALBUQUERQUE	DATE	
WORKING BY	TABLET STAMPED 77-6207 DRILLED INTO THE TOP OF THE CONCRETE	DATE	
ACCEPTANCE BY	CURB LOCATED AT THE INTERSECTION OF COMANCHE RD. N.E. AND	DATE	
REVISION BY	MOON ST. N.E. APPROXIMATELY 33' NORTH OF STREET CENTERLINE	DATE	
REVISION BY	INTERSECTIONS ON THE NORTH RIGHT-OF-WAY LINE OF COMANCHE	DATE	
REVISION BY	RD. N.E.	DATE	
REVISION BY	ELEVATION = 5470.49' (M.S.L.D.)	DATE	

SURVEY INFORMATION			
NO.	DATE	BY	FIELD NOTES
1/A	?	COMMUNITY SCIENCES	

ENGINEER'S SEAL			
NO.	DATE	BY	REMARKS

Designed By	Date	03-2001
Drawn By	Date	03-2001
Checked By	Date	03-2001

04-06-2001

CITY OF ALBUQUERQUE PARKS AND GENERAL SERVICES DESIGN & DEVELOPMENT DIVISION			
TITLE: AZTEC PARK RENOVATION GRADING AND DRAINAGE PLAN			
Design Review Committee	City Engineer Approval		
City Project No.	6612.91	Zone Map No.	G-20
Sheet	D1.0	Of	8