HYDROLOGY

K13/D4d
ONE PLAN

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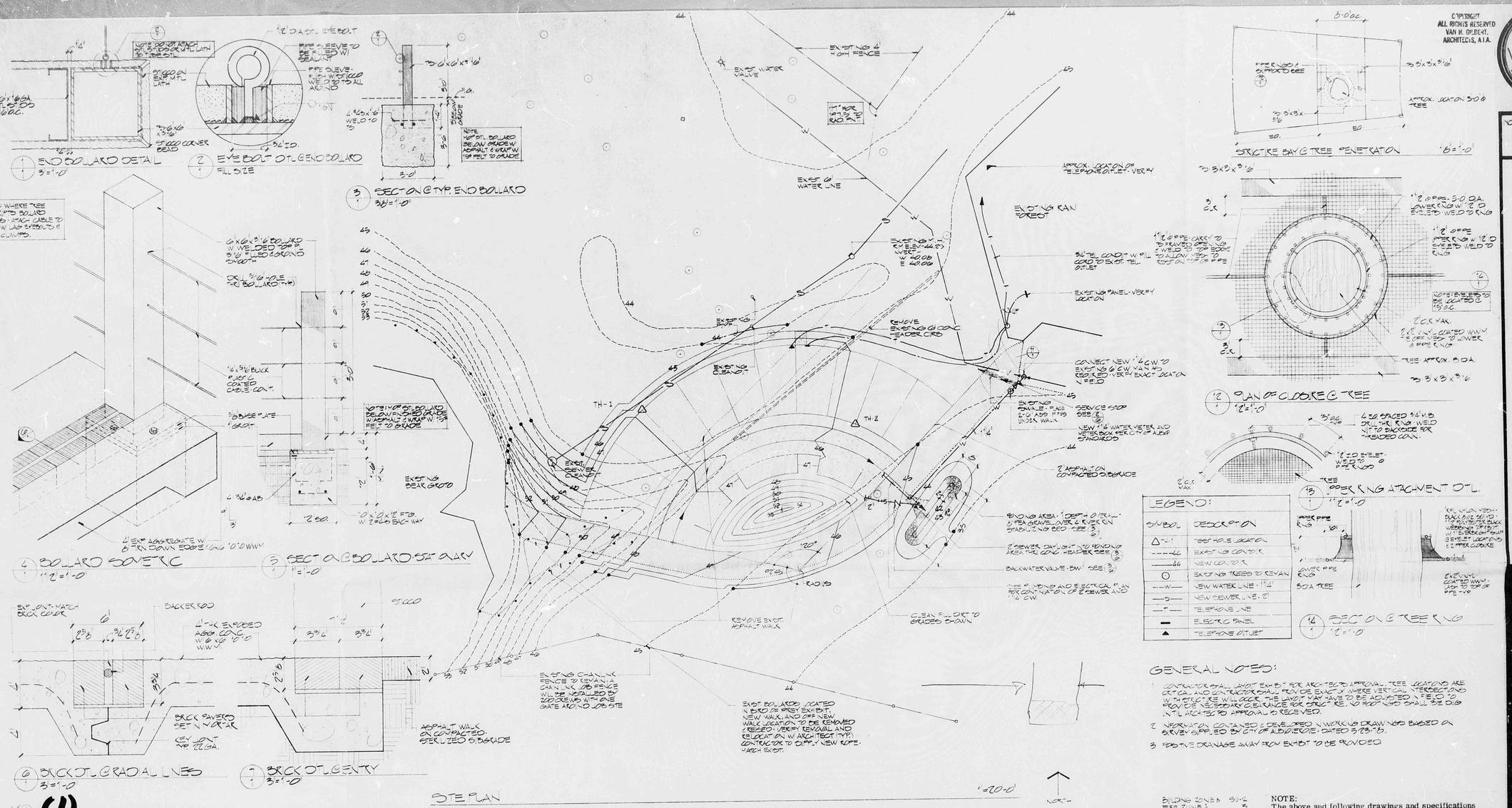

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BIRD OF PREY EXHIBIT
RIO GRANDE ZOOLOGICAL PARK
CITY OF ALBUQUERQUE
DAVID RUSK MAYOR
JOHN A. MOORE DIRECTOR

JOHN DOE CONTRACTOR

VAN H. GILBERT ARCHITECT
RANDY HOLT & ASSOC. STRUCTURAL ENGINEER
WALKER-BROWN MECHANICAL ENGINEER
DON FOWLER ELECTRICAL ENGINEER

FOUNDATION NOTES

1. Prior to construction the entire building area should be cleared of existing pavements, vegetation, fences, and underground utilities that may exist. Due to the loose nature of the underlying soils all foundations shall be based entirely on engineered and controlled, compacted fill soils as follows: Remove soils beneath proposed footings to a depth of approximately 2 feet. These soils should also be removed to a minimum distance from all sides of the foundations equal to the depth of compacted fill beneath the footings. The removed soils should be replaced with either "on-site" soils approved by the Soils Engineer or imported select soils conforming to the following requirements.

Gradation Requirements Screen Size	Cumulative % Passing
1"	100
3/4"	95 to 100
No. 4	45 to 75
No. 200	10 to 30
Plasticity Index	8 maximum

Prior to placement of compacted fill soils the bottoms of footing excavations should be scarified to a depth of from 6 to 8 inches. Both scarified soils and fill soils placed in thin, horizontal lifts (maximum loose depths not to exceed 8 inches) should be compacted to a minimum of 95 percent of Modified Proctor Density (ASTM D-1557). The depth of compacted fill soils beneath all foundations should be equal to at least one-half of the footing width or least dimension of the footing but not less than 2 feet. All foundations should be based below the frost line at a minimum depth of 2 feet beneath the finished exterior grade.

2. "On-grade" reinforced concrete slabs shall be founded on a minimum of 6" compacted thickness of select soils conforming to the gradation and Plasticity Index requirements as described above. Slab fill soils should be placed and compacted as described above to a minimum of 90 percent of Modified Proctor Density.

3. It will be important at this site to keep soils (both native or compacted fill soils) at and below foundation depths in their present, relatively dry state. Saturation or wetting to various degrees of the foundation soils could cause them to consolidate to some extent with resultant settlement which, if differential in nature, could cause structural distress. To help prevent moisture intrusions into the foundation soils, the following precautions should be taken:

a. Provide and maintain positive surface water drainage around and away from all exterior walls and foundations.

b. Properly compact all fill soils around exterior walls, foundations, and in utility trenches to a minimum of 90% Modified Proctor Density.

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JOHN A. MOORE DIRECTOR

SITE PLAN, FOUNDATION NOTES, DETAILS

1