



**Please check the appropriate box(es) and refer to supplemental forms for submittal requirements. All fees must be paid at the time of application.**

|   |  |
|---|--|
| <b>MISCELLANEOUS APPLICATIONS</b>   | <input type="checkbox"/> Extension of Infrastructure List or IIA (Form S3) |
| <input type="checkbox"/> Site Plan Administrative DFT (Forms SP & P2)                         | <b>PRE-APPLICATIONS</b>  |
| <input type="checkbox"/> Final EPC Sign-off for Master Development/Site Plans - EPC (Form P2) | <input type="checkbox"/> Sketch Plat Review and Comment (Form S3)          |
| <input type="checkbox"/> Infrastructure List or Amendment to Infrastructure List (Form S3)    | <input type="checkbox"/> Sketch Plan Review and Comment (Form S3)          |
| <input type="checkbox"/> Temporary Deferral of S/W (Form S3)                                  | <b>APPEAL</b>  |
| <input type="checkbox"/> Extension of IIA: Temp. Def. of S/W (Form S3)                        | <input type="checkbox"/> Decision of Site Plan Administrative DFT (Form A) |

**BRIEF DESCRIPTION OF REQUEST**

Project delivery is a design bid build for the construction of approximately 12 buildings generally ranging from 2,000-12,000SF. The buildings will host salt production activities. Each building is custom sized for equipment and processes that are currently being established. Light manufacturing will occur in enclosed areas. Process piping will be visible between and around various buildings. As such, the exact size and placement of each building may vary slightly but is generally in keeping with the site plan provided. Each structure is independent of the others but intended to create materials to support the existing facility's operations.

**APPLICATION INFORMATION**

|                               |                         |        |
|-------------------------------|-------------------------|--------|
| Applicant/Owner:              |                         | Phone: |
| Address:                      |                         | Email: |
| City:                         | State:                  | Zip:   |
| Professional/Agent (if any):  |                         | Phone: |
| Address:                      |                         | Email: |
| City:                         | State:                  | Zip:   |
| Proprietary Interest in Site: | List <u>all</u> owners: |        |

**SITE INFORMATION (Accuracy of the existing legal description is crucial! Attach a separate sheet if necessary.)**

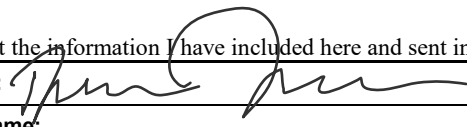
|                       |                     |                             |
|-----------------------|---------------------|-----------------------------|
| Lot or Tract No.:     | Block:              | Unit:                       |
| Subdivision/Addition: | MRGCD Map No.:      | UPC Code:                   |
| Zone Atlas Page(s):   | Existing Zoning:    | Proposed Zoning             |
| # of Existing Lots:   | # of Proposed Lots: | Total Area of Site (Acres): |

**LOCATION OF PROPERTY BY STREETS**

|                      |          |      |
|----------------------|----------|------|
| Site Address/Street: | Between: | and: |
|----------------------|----------|------|

**CASE HISTORY (List any current or prior project and case number(s) that may be relevant to your request.)**

I certify that the information I have included here and sent in the required notice was complete, true, and accurate to the extent of my knowledge.

|  |  |
|--|--|
| Signature:  | Date:  |
| Printed Name:  | <input type="checkbox"/> Applicant or <input type="checkbox"/> Agent |

**FORM S3: ADMINISTRATIVE APPLICATIONS – Development Facilitation Team (DFT) as of 12/25/2022****\_ AMENDMENT TO INFRASTRUCTURE LIST**

A Single PDF file of the complete application including all documents being submitted must be emailed to [PLNDRS@cabq.gov](mailto:PLNDRS@cabq.gov) prior to making a submittal. Zipped files or those over 9 MB cannot be delivered via email, in which case the PDF must be provided to City Staff using other online resources such as Dropbox or FTP. *The PDF shall be organized in the number order below.*

- \_\_\_ 1) DFT Application form completed, signed, and dated
- \_\_\_ 2) Form S3 with all the submittal items checked/marked
- \_\_\_ 3) Zone Atlas map with the entire site clearly outlined and labeled
- \_\_\_ 4) Letter of authorization from the property owner if application is submitted by an agent
- \_\_\_ 5) Proposed Amended Infrastructure List
- \_\_\_ 6) Original Infrastructure List

**\_ TEMPORARY DEFERRAL OF SIDEWALK CONSTRUCTION**

A Single PDF file of the complete application including all documents being submitted must be emailed to [PLNDRS@cabq.gov](mailto:PLNDRS@cabq.gov) prior to making a submittal. Zipped files or those over 9 MB cannot be delivered via email, in which case the PDF must be provided to City Staff using other online resources such as Dropbox or FTP. *The PDF shall be organized in the number order below.*

- \_\_\_ 1) DFT Application form completed, signed, and dated
- \_\_\_ 2) Form S3 with all the submittal items checked/marked
- \_\_\_ 3) Zone Atlas map with the entire site clearly outlined and labeled
- \_\_\_ 4) Letter of authorization from the property owner if application is submitted by an agent
- \_\_\_ 5) A scale drawing showing the location of the deferred sidewalk with appropriate dimensions

**\_ EXTENSION OF THE IIA FOR TEMPORARY DEFERRAL OF SIDEWALK CONSTRUCTION**

A Single PDF file of the complete application including all documents being submitted must be emailed to [PLNDRS@cabq.gov](mailto:PLNDRS@cabq.gov) prior to making a submittal. Zipped files or those over 9 MB cannot be delivered via email, in which case the PDF must be provided to City Staff using other online resources such as Dropbox or FTP. *The PDF shall be organized in the number order below.*

- \_\_\_ 1) DFT Application form completed, signed, and dated
- \_\_\_ 2) Form S3 with all the submittal items checked/marked
- \_\_\_ 3) Zone Atlas map with the entire site clearly outlined and labeled

- \_\_\_ 4) Letter of authorization from the property owner if application is submitted by an agent
- \_\_\_ 5) Letter describing, explaining, and justifying the deferral or extension
- \_\_\_ 6) Drawing showing the sidewalks subject to the proposed deferral or extension

**\_ INFRASTRUCTURE LIST EXTENSION OR AN INFRASTRUCTURE IMPROVEMENTS AGREEMENT (IIA)  
EXTENSION**

A Single PDF file of the complete application including all documents being submitted must be emailed to [PLNDRS@cabq.gov](mailto:PLNDRS@cabq.gov) prior to making a submittal. Zipped files or those over 9 MB cannot be delivered via email, in which case the PDF must be provided to City Staff using other online resources such as Dropbox or FTP. *The PDF shall be organized in the number order below.*

- \_\_\_ 1) DFT Application form completed, signed, and dated
- \_\_\_ 2) Form S3 with all the submittal items checked/marked
- \_\_\_ 3) Zone Atlas map with the entire site clearly outlined and labeled
- \_\_\_ 4) Letter of authorization from the property owner if application is submitted by an agent
- \_\_\_ 5) Letter describing, explaining, and justifying the request per IDO Section 14-16-6-4(X)(4)
- \_\_\_ 6) Preliminary Plat or Site Plan
- \_\_\_ 7) Copy of DRB approved Infrastructure List
- \_\_\_ 8) Copy of recorded IIA

**\_ SKETCH PLAT OR SKETCH PLAN REVIEW AND COMMENT**

A Single PDF file of the complete application including all documents being submitted must be emailed to [PLNDRS@cabq.gov](mailto:PLNDRS@cabq.gov) prior to making a submittal. Zipped files or those over 9 MB cannot be delivered via email, in which case the PDF must be provided to City Staff using other online resources such as Dropbox or FTP. *The PDF shall be organized in the number order below.*

- \_\_\_ 1) DFT Application form completed, signed, and dated
- \_\_\_ 2) Form S3 with all the submittal items checked/marked
- \_\_\_ 3) Zone Atlas map with the entire site clearly outlined and labeled
- \_\_\_ 4) Letter describing, explaining, and justifying the request
- \_\_\_ 5) Scale drawing of the proposed subdivision plat or Site Plan
- \_\_\_ 6) Site sketch with measurements showing structures, parking, building setbacks, adjacent rights-of-way, and street improvements, if there is any existing land use

Legal Description:

A certain tract of land located within Section 15, Township 9 North, Range 3 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico. Being and Comprised of Tract D-1 and Tract D-3 of the Bulk Land Plat for Mesa Del Sol Innovation Park II, as the same is shown and designated on the plat thereof recorded in the real property records of Bernalillo County, New Mexico on December 29, 2017, as Document Number 2017124120, in Book: 2017C, Page: 159.





December 5, 2024

Annette Ortiz

Senior Admin/Navigator

Development Review Services

Dear Ms. Ortiz

Kairos Power is located at 5201 Hawking Dr. SE Albuquerque, New Mexico. This facility has been retrofitted for the skilled manufacturing of alternative power sources.

Kairos Power has hired Greenbox Architecture to assist in the land use approvals for their next expansion of the Mesa Del Sol facility. The project consists of the construction of several new structures west of their existing buildings. These structures will be a mixture of pre-engineered metal buildings with metal siding and equipment pads for various processes. Some equipment pads will include support structures for process piping and equipment.

Project delivery is a design bid build for the construction of approximately 12 buildings generally ranging from 2,000-12,000SF. The buildings will host salt production activities. Each building is custom sized for equipment and processes that are currently being established. Light manufacturing will occur in enclosed areas. Process piping will be visible between and around various buildings. Unique structure al supports will be created to hold process piping unique to this facility. As such, the exact size and placement of each building may vary slightly but is generally in keeping with the site plan provided. Each structure is independent of the others but intended to create materials to support the existing facility's operations. The conceptual site plan has been provided. The "Facility Description and Summary" table below describes the nature of the buildings.

| Facility Description and Summary |                       |                         |                     |
|----------------------------------|-----------------------|-------------------------|---------------------|
| Building Number                  | Approximate Area (SF) | Approximate Height (FT) | Use of Structure    |
| Building 1                       | 2,800                 | 24                      | Light Manufacturing |
| Building 2                       | 2,800                 | 24                      | Light Manufacturing |
| Building 3                       | 2,400                 | 18                      | Light Manufacturing |

|                 |        |     |   |
|-----------------|--------|-----|---|
| Building 4      | 2,200  | 23  | Light Manufacturing                             |
| Building 5      | 4,500  | 31  | Light Manufacturing                             |
| Building 6      | 8,100  | 30  | Light Manufacturing                             |
| Building 7      | 2,000  | 24  | Light Manufacturing                             |
| Building 8      | 10,000 | 28  | Office  |
| Building 9      | 7,000  | 30  | Light Manufacturing                             |
| Building 10     | 400    | 14  | Storage   |
| Equipment Pad 1 | 5,500  | 16  | Steel truss structure supporting process piping |
| Equipment Pad 2 | 2,400  | 27  | Equipment and tanks                             |
| Equipment Pad 3 | 8,900  | 60  | Steel truss structure supporting process piping |
| Equipment Pad 4 | 6,600  | 53  | Tanks   |
| Equipment Pad 5 | 1,500  | 21  | Tanks   |
| Equipment Pad 6 | 5,800  | 100 | Light Manufacturing                             |
| Equipment Pad 7 | 5,800  | 100 | Future Light Manufacturing                      |

The intent is for most buildings to be constructed simultaneously and used as permanent structures. Some of the buildings may be constructed within a few years of the initial Salt Plant. The exact nature of these buildings (height and size) will vary slightly as the processes and equipment are established. This proposal is currently under review with the Mesa Del Sol Architectural Review committee.

This facility expansion will house chemical tanks and equipment both inside and outside of buildings/structures. Tanks located on the equipment pads will be placed on the northwest side of the site, farthest from access roads and the right of way (Hawking Drive).

Currently, the site has a large drainage pond located on the far west side of the property, fed by a 24-inch storm drainpipe running east to west. The storm facility will be reshaped and expanded to meet the needs of the Salt Plant facility. The new facility will be approximately 50 feet wide by 700 feet long and will run the length of the east and north property lines adjacent to the proposed development. The site will be graded and include the necessary improvements for proper drainage in accordance with local ordinances. Extra drainage capacity will also be provided in this phase for the future structures noted above. The stormwater facility has been reviewed and approved by hydrology.

The buildings can be served by the existing utilities on site. Data, water, and sanitary sewer services will be extended from the existing building to the proposed structures. In general, the utility demands for these buildings are light. Adequate power exists at the main switchgear, and a new transformer will be installed as needed to support the

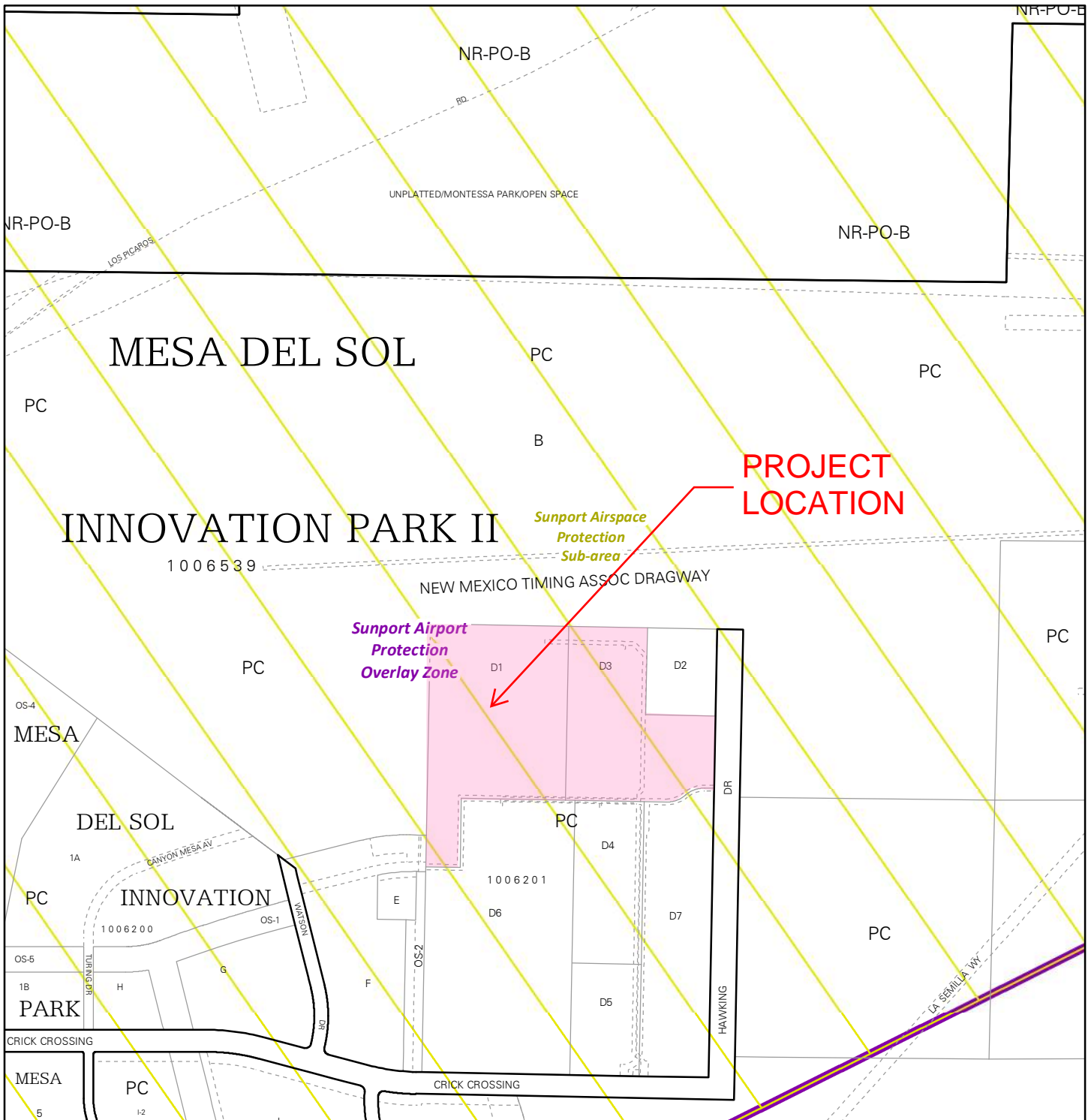
process equipment. Power will be drawn from the existing concrete pad located south of the TDL building and provided to an electrical building in the center of the development. Water is currently in the process of being upgraded/ has been upgraded to meet the site's needs. Specific water demands have been provided to Mesa Del Sol for coordination and approval.

The proposed buildings will be pre-engineered steel structures with metal siding, consistent with the existing steel buildings. These structures are classified as Type II-B Construction. We do not anticipate developing additional Sprung Structures in this phase.

Sincerely,

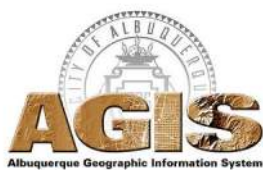
A handwritten signature in blue ink, appearing to read 'Derek Metson', with a long horizontal flourish extending to the right.

Derek Metson, AIA  
Greenbox Architecture  
p: (503) 207-5537

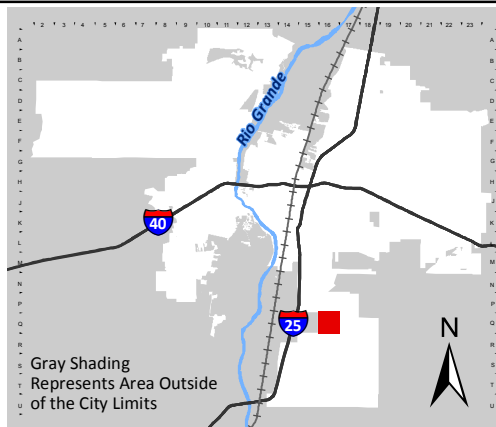


For more details about the Integrated Development Ordinance visit: <http://www.cabq.gov/planning/codes-policies-regulations/integrated-development-ordinance>

# IDO Zone Atlas May 2018

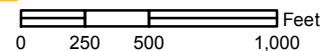


IDO Zoning information as of May 17, 2018  
The Zone Districts and Overlay Zones  
are established by the  
Integrated Development Ordinance (IDO).



Zone Atlas Page:  
**Q-16-Z**

- Easement
- Escarpment
- Petroglyph National Monument
- Areas Outside of City Limits
- Airport Protection Overlay (APO) Zone
- Character Protection Overlay (CPO) Zone
- Historic Protection Overlay (HPO) Zone
- View Protection Overlay (VPO) Zone





**GENERAL NOTES:**

- A. THIS PROJECT IS NOT A PHASED DEVELOPMENT. ALL PROPOSED BUILDINGS SHALL BE CONSTRUCTED IN ONE PHASE.
- B. THE OFFICE BUILDING FOUNDATION IS INCLUDED IN THE SCOPE OF THIS PERMIT, BUT THE BUILDING SHALL BE PERMITTED SEPARATELY THROUGH THE APPROPRIATE AUTHORITY HAVING JURISDICTION.
- C. NO ADJACENT STRUCTURES ARE WITHIN 20' OF THE SITE.
- D. NO PROPOSED REFUSE FACILITY IS INCLUDED IN THE SCOPE OF THIS PROJECT. NEW BUILDINGS ARE INTENDED TO USE THE EXISTING TRASH COMPACTOR TO THE NORTH OF THE EXISTING BUILDING. EXISTING ACCESS IS UNCHANGED.
- E. ALL ABUTTING PROPERTIES ARE ZONED PC- PLANNED COMMUNITY.
- F. LANDSCAPE DRAWINGS NOT DEVELOPED AT THIS TIME BUT WILL INCLUDE WATER HARVESTING DESIGN LAYOUT.
- G. STORM WATER CALCULATIONS WILL INCLUDE WATER HARVESTING CALCULATIONS.
- H. ALL ACCESS AISLE AND ROAD DIMENSIONS EXCLUDE CURBS UNLESS OTHERWISE NOTED.
- I. NO TEMPORARY STRUCTURES ARE PROPOSED WITH THIS PROJECT.

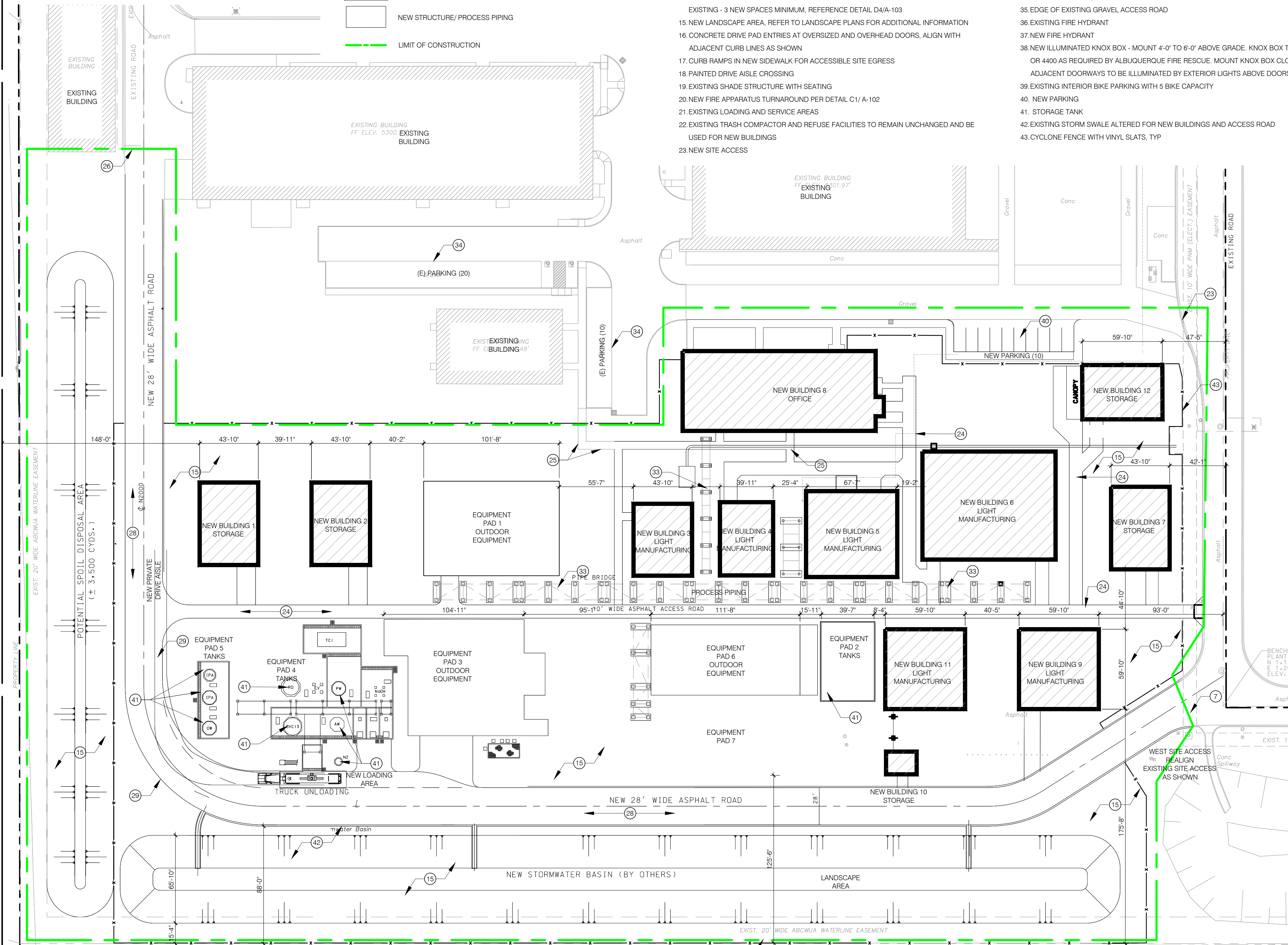
- J. SITE LIGHTING SHALL COMPLY TO SECTION 4 AND LIGHTING DESIGN STANDARDS 7.4 OF THE MESA DEL SOL EMPLOYMENT CENTER DESIGN STANDARDS.
- K. SIGNAGE SHALL COMPLY TO SECTION 5 OF THE MESA DEL SOL EMPLOYMENT CENTER DESIGN STANDARDS.
- L. PROPOSED EXTERIOR WALL SCONCES SHALL BE MOUNTED ABOVE EACH EXTERIOR DOOR.
- M. LANDSCAPING, FENCING, AND SIGNING WILL NOT INTERFERE WITH CLEAR SIGHT REQUIREMENTS. THEREFORE, SIGNS, WALLS, TREES, AND SHRUBBERY BETWEEN 3 AND 8 FEET TALL MEASURED FROM GUTTER PAN WILL NOT BE ACCEPTABLE IN THE CLEAR SIGHT TRIANGLE.
- N. NO EXISTING STRUCTURES WITHIN 20' OF THE SITE.

**LEGEND:**

- EXISTING BUILDING
- NEW BUILDING
- NEW STRUCTURE/PROCESS PIPING
- LIMIT OF CONSTRUCTION

**KEYED NOTES:**

1. EXISTING 20" WATERLINE EASEMENT
2. EXISTING 30" PRIVATE ACCESS EASEMENT
3. EXISTING PNM EASEMENT
4. EXISTING 20" PERMANENT PRIVATE UTILITY EASEMENT
5. EXISTING 10" PUBLIC UTILITY EASEMENT
6. EXISTING NATIVE VEGETATION TO BE PROTECTED FOR THE DURATION OF CONSTRUCTION. PROVIDE SILT FENCING AT THE PERIMETER OF THE PROJECT SCOPE AND REFRAIN FROM THE STORAGE AND USE OF EQUIPMENT IN THESE AREAS.
7. EXISTING SITE ACCESS
8. NEW FDC
9. EXISTING GRAVEL ACCESS ROAD WITH NEW ASPHALT PAVEMENT
10. NEW ASPHALT PARKING AND 6" WIDE CONCRETE TIRE STOPS
11. NEW ACCESSIBLE PARKING, SEE SHEET A-101
12. EXISTING HOV PARKING
13. EXISTING MOTORCYCLE PARKING
14. EXISTING AND PROPOSED BICYCLE PARKING - NEW SERPENTINE BIKE RACK TO MATCH EXISTING - 3 NEW SPACES MINIMUM, REFERENCE DETAIL D4/A-103
15. NEW LANDSCAPE AREA, REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION
16. CONCRETE DRIVE PAD ENTRIES AT OVERSIZED AND OVERHEAD DOORS, ALIGN WITH ADJACENT CURB LINES AS SHOWN
17. CURB RAMPS IN NEW SIDEWALK FOR ACCESSIBLE SITE EGRESS
18. PAINTED DRIVE AISLE CROSSING
19. EXISTING SHADE STRUCTURE WITH SEATING
20. NEW FIRE APPARATUS TURNAROUND PER DETAIL C1/ A-102
21. EXISTING LOADING AND SERVICE AREAS
22. EXISTING TRASH COMPACTOR AND REFUSE FACILITIES TO REMAIN UNCHANGED AND BE USED FOR NEW BUILDINGS
23. NEW SITE ACCESS
24. NEW MAINTENANCE ACCESS, 10' WIDE ASPHALT
25. 6" WIDE CONCRETE SIDEWALK WITH CONTROL JOINTS 5'-0" O.C. AND EXPANSION JOINTS 50'-0" O.C. MAX. LIGHT BROOM FINISH
26. TERMINATION OF EXISTING CONCRETE DRIVE
27. EXISTING 20" WIDE ABCWUA WATERLINE EASEMENT
28. NEW DRIVE AISLE, 28" WIDE ASPHALT
29. NEW ASPHALT DRIVE AISLE
30. TRAFFIC SIGN
31. EXTERIOR WALL MOUNTED LIGHTING ABOVE ALL DOORS - SEE ELECTRICAL DRAWINGS AND A-500 SHEETS FOR ADDITIONAL INFORMATION
32. CLEAR SIGHT TRIANGLES - MEASURED 15' FROM ROADWAY, 230' FOR LEFT TURNS AND 200' FOR RIGHT TURNS. LANDSCAPING, FENCING, AND SIGNING BETWEEN 3' AND 8' TALL WILL NOT BE ACCEPTABLE WITHIN CLEAR SIGHT TRIANGLES. SEE C1 & D1 ON SHEET A-101 FOR ADDITIONAL INFORMATION
33. ELEVATED PROCESS PIPING AND
34. EXISTING PARKING, SEE PARKING COUNTS IN GENERAL INFORMATION ON THIS SHEET
35. EDGE OF EXISTING GRAVEL ACCESS ROAD
36. EXISTING FIRE HYDRANT
37. NEW FIRE HYDRANT
38. NEW ILLUMINATED KNOX BOX - MOUNT 4'-0" TO 6'-0" ABOVE GRADE. KNOX BOX TO BE 3200 OR 4400 AS REQUIRED BY ALBUQUERQUE FIRE RESCUE. MOUNT KNOX BOX CLOSE TO ADJACENT DOORWAYS TO BE ILLUMINATED BY EXTERIOR LIGHTS ABOVE DOORS.
39. EXISTING INTERIOR BIKE PARKING WITH 5 BIKE CAPACITY
40. NEW PARKING
41. STORAGE TANK
42. EXISTING STORM SWALE ALTERED FOR NEW BUILDINGS AND ACCESS ROAD
43. CYCLONE FENCE WITH VINYL SLATS, TYP



**OVERALL SITE PLAN**  
SCALE: 1" = 200'

**GENERAL INFORMATION:**

|  |  |
|--|--|
| SITE ADDRESS:  | 5201 HAWKING DRIVE SE ALBUQUERQUE, NM 87106  |
| LOT SIZE:  | 1,238,746.212 S.F. / 28.4377 ACRES   |
| LOT COVERAGE (FAR):  | 22.2%  |
| LANDSCAPING:   | EXISTING: 170,590 SF<br>PROPOSED: 206,239 SF   |
| LOT COVERAGE:  | EXISTING: 225,452 SF<br>PROPOSED: 311,752 SF   |
| <b>APPROXIMATE NEW AREA BY BUILDING</b>  |  |
| 1. 2,800 SF  | 7. 2,000 SF  |
| 2. 2,800 SF  | 8. 8,700 SF  |
| 3. 2,400 SF  | 9. 7,000 SF  |
| 4. 2,200 SF  | 10. 400 SF   |
| 5. 4,500 SF  | 11. 3,600 SF   |
| 6. 8,100 SF  | 12. 2,500 SF   |
| TOTAL: 47,000 SF   |  |
| BUILDING AREA:   | NEW BUILDING AREA: 47,000 SF<br>EXISTING: 225,452 SF<br>PROPOSED: 272,452 SF   |
| BUILDING TYPE:   | II-B   |
| PROPOSED OCCUPANCY:  | LIGHT MANUFACTURING (F)  |
| <b>PARKING AND TRAFFIC</b>   |  |
| EXISTING PARKING SPACES:   | 223 STANDARD SPACES<br>12 HOV SPACES<br>12 ADA SPACES (5 VAN ACCESSIBLE)<br>12 MOTORCYCLE SPACES<br>24 BIKE PARKING SPACES<br>2 VAN POOL |
| PROPOSED PARKING SPACES:   | 8 STANDARD SPACES+2 VANPOOL SPACES   |
| TOTAL SPACES   | 223 +10 NEW + 48 HOV**+14 VAN POOL = 295   |
| * PARKING CALCULATIONS ARE ROUNDED DOWN TO THE NEAREST WHOLE NUMBER PER IDO SECTION 5-5(C)(1)(D)                             |  |
| ** 12 SPACES X 4 CARPOOL CREDIT PER IDO SECTION 5-5(C)(6)(B) = 48 SPACES TOWARD THE REQUIRED OFF-STREET PARKING REQUIREMENT  |  |
| *** 2 SPACES X 7 VAN POOL CREDIT PER IDO SECTION 5-5(C)(6)(B) = 14 SPACES TOWARD THE REQUIRED OFF-STREET PARKING REQUIREMENT |  |

**PROJECT DESCRIPTION:**

THE PROPOSED DEVELOPMENT FOR KAIROS POWER INVOLVES TWO LAND USE REVIEWS. THE INFORMATION AND DRAWINGS INCLUDED IN THIS SUBMITTAL PACKAGE HAVE BEEN PROVIDED FOR A SITE PLAN, MAJOR AMENDMENT, REVIEW BY THE DEVELOPMENT FACILITATION TEAM (DFT). THE SCOPE OF THIS SUBMITTAL INCLUDES THE SITE PREPARATION, BASIC UTILITIES AND SEVERAL NEW DETACHED BUILDINGS. THE PROPOSED BUILDINGS ARE AN EXPANSION TO THE EXISTING KAIROS POWER CAMPUS AND ARE TO BE USED FOR LIGHT MANUFACTURING.

THESE NEW BUILDINGS SUPPORT THE EXISTING MANUFACTURING IN THE EXISTING BUILDINGS. IN ADDITION TO BUILDINGS THERE SHALL BE EQUIPMENT, PIPING AND TANKS SIMILAR TO THOSE LOCATED SOUTH OF THE EXISTING TDL BUILDING. THIS PRODUCTION AREA IS REFERRED TO AS THE SALT PRODUCTION FACILITY (SPF).

APPROXIMATELY 12 METAL BUILDINGS WILL BE CONSTRUCTED TO SUPPORT SALT PRODUCTION. THE PRE-ENGINEERED METAL BUILDINGS WILL HOUSE THE MANUFACTURING PROCESS. PIPE STANDS AND TANKS WILL BE LOCATED AROUND THESE BUILDINGS TO TRANSFER MATERIALS BETWEEN THE BUILDINGS DURING THE PROCESS. EQUIPMENT PADS THAT SUPPORT VARIOUS TANKS AND THE PROCESS EQUIPMENT WILL BE LOCATED SEVERAL HUNDRED FEET FROM THE SOUTH PROPERTY LINE.

THE STORM WATER SWALE WILL BE RECONFIGURED TO ACCOMMODATE THIS DEVELOPMENT. THE SITE ACCESS ON THE WEST END OF THE SITE WILL BE CONNECTED TO THE REST OF THE CIRCULATION SYSTEM.

**ENLARGED SITE PLAN**  
SCALE: 1" = 40'

NOT FOR CONSTRUCTION

KAIROS POWER FACILITY  
SALT PLANT EXPANSION  
NOT FOR CONSTRUCTION

PRELIMINARY SITE PLAN






PROJECT NO.: 8003-22  
DRAWN BY:  
DATE: NOVEMBER 1, 2024

**A-100**

LAND USE REVIEW



## LEGEND LANDSCAPED AREA

-  EXISTING ESTABLISHED LANDSCAPE AREAS TO REMAIN. 171,058 SQ. FT
-  EXISTING RE-SEEDING AREAS TO REMAIN. 64,106 SQ. FT
-  EXISTING NATIVE AREAS TO REMAIN. 154,185 SQ. FT
-  NEW RE-SEEDING AREAS. 200,589 SQ. FT PROVIDED
-  NEW IRRIGATED LANDSCAPE AREAS SURROUNDING THE BUILDING AND ENTRANCES. 35,936 SQ. FT PROVIDED.

## COMPLIANCE WITH STANDARDS

LANDSCAPE PLAN MEETS 25' MIN SPACING REQUIREMENTS FOR STREET TREES (WITHIN 20' FROM BACK OF CURB) ALONG STREET FRONTAGES. ROAD RUNNING NORTH TO SOUTH ON THE EAST SIDE OF THE SITE IS A PRIVATE ACCESS ROAD, THEREFORE STREET TREES ARE NOT REQUIRED. LANDSCAPE PLAN WILL MEET THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE WATER CONSERVATION LANDSCAPING AND WATER WASTE ORDINANCE, SECTION 6-1-1.

LANDSCAPE PLAN HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE GENERAL LANDSCAPE REQUIREMENTS AND STREET TREE ORDINANCE, SECTION 14-16-3-10.

**IDO 5-6 LANDSCAPING, BUFFERING AND SCREENING: MINIMUM LANDSCAPE AREA 5-6(C)(2):**  
 AT MATURITY, PLANTS WILL PROVIDE MINIMUM COVERAGE OF 75% OF THE LANDSCAPE AREA. LANDSCAPING AND SIGNAGE SHALL NOT INTERFERE WITH CLEAR SIGHT REQUIREMENTS. PLAN MEETS REQUIREMENTS OF IDO 5-6-G SCREENING OF MECHANICAL EQUIPMENT AND SUPPORT AREAS.

**PER IDO 5-6(F) PARKING LOT REQUIREMENTS.** 10% OF PARKING LOT INTERIOR IS LANDSCAPED. ONE (1) TREE PER 10 PARKING SPACES REQUIREMENT IS MET. NO MORE THAN 10 PARKING SPACES BETWEEN TREES REQUIREMENT IS MET (ONE EXCEPTION APPROVED BY REVIEWERS IS DESCRIBED IN NOTE ON SHEET LP-102). NO PARKING SPACE IS MORE THAN 100 FEET IN ANY DIRECTION FROM A TREE TRUNK. PER MDS 2.2.2(G)(V) WATER HARVESTING TRENCHES FOR SURFACE RUNOFF ARE PROVIDED TO CAPTURE WATER FROM THE PARKING LOT.

ALL PLANTING BEDS SHALL BE MULCHED WITH A 4" LAYER OF 3/4" ANGULAR GRAVEL OR ORGANIC MULCH. COLOR, TAN, AVAILABLE FROM BUILDLOGY (PH# 505-344-6626), OR APPROVED EQUAL. ORGANIC MULCH SHALL COVER MORE THAN 25% OF MULCHED AREAS. ALL MULCH SHALL BE UNDERLINED WITH DEWITT PRO-5 28 MIL. FILTER FABRIC OR APPROVED EQUAL. PER COA SECTION 1013 DRAINAGE PONDS SLOPE STABILIZATION AND SEEDING REQUIREMENTS HAVE BEEN MET IF APPLICABLE.

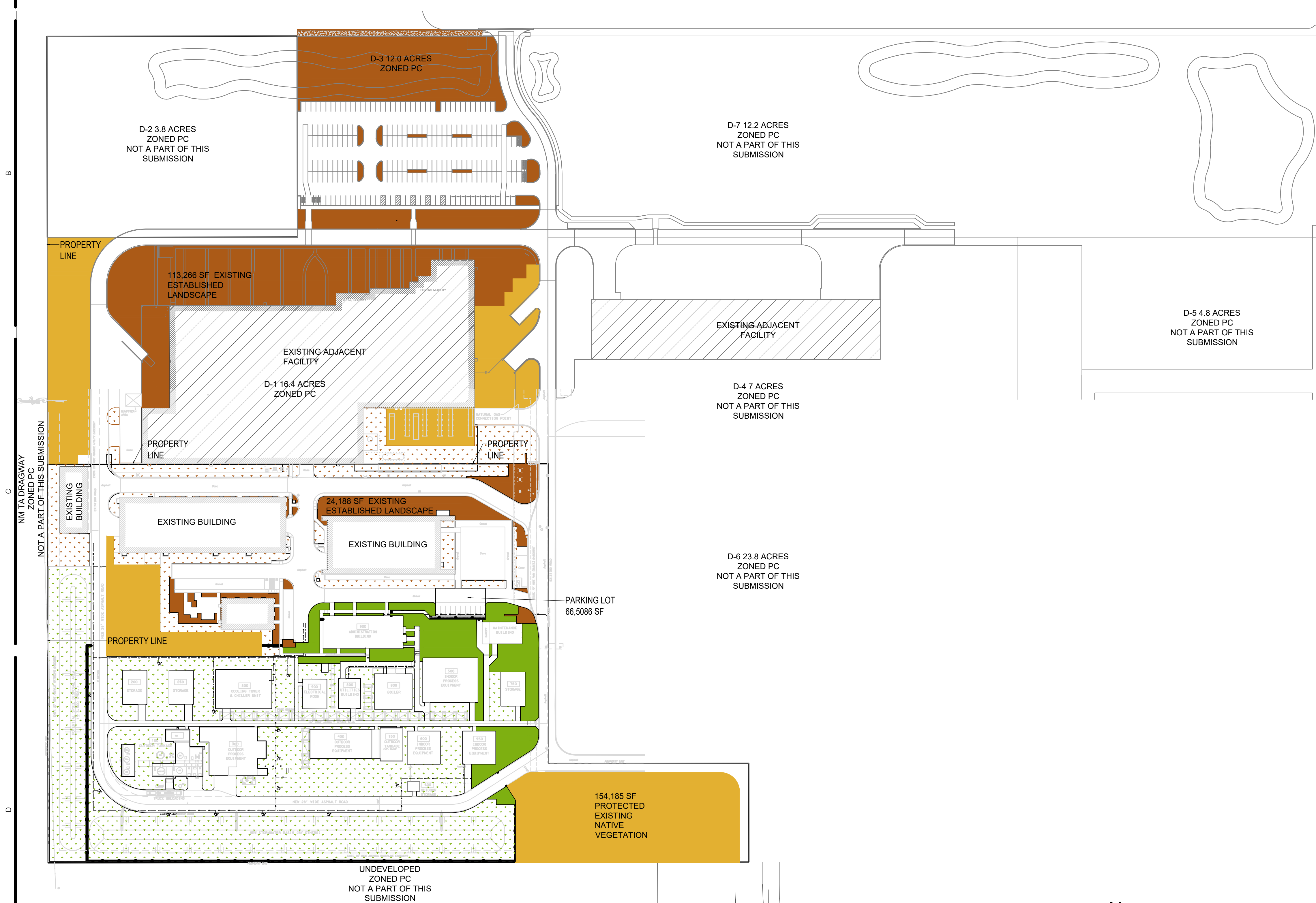
LANDSCAPE AREAS ADJACENT TO THE PUBLIC SIDEWALK SHALL BE DEPRESSED BIOSWALES AT 12"-16" BELOW ADJACENT GRADE FOR STORMWATER CATCHMENT.

ALL TREES IN THE PLAN ARE LISTED ON THE CITY OF ALBUQUERQUE OFFICIAL TREES LIST. RE-VEGETATION SEEDING PER SECTION 1030 SEED MIXES.

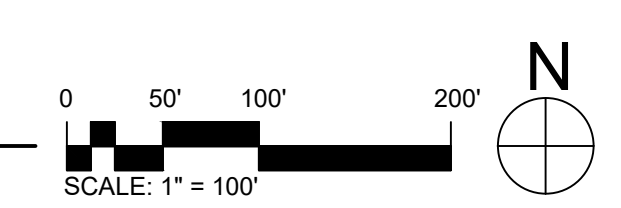
PLAN MEETS IDO 5-11(E)(3) REQUIREMENT TO PROVIDE AT LEAST ONE OUTDOOR SEATING AREA THAT IS A MINIMUM OF 500 S.F.

RESPONSIBILITY FOR LANDSCAPE MAINTENANCE ON THE SITE SHALL LIE WITH THE OWNER.

AN UNDERGROUND AUTOMATIC IRRIGATION SYSTEM WILL BE CONSTRUCTED FOR ALL EXISTING AND INSTALLED PLANT MATERIALS. TREES, SHRUBS, & GROUND COVERS WILL BE IRRIGATED WITH A LOW FLOW BUBBLER SYSTEM. SEE LANDSCAPE IRRIGATION PERFORMANCE SPEC ON SHEET LP-001



**A1 LANDSCAPE SITE PLAN CALCULATIONS**  
 1" = 20'-0"



**Greenbox** Architecture  
 602 SEVENTH STREET, SUITE 200  
 OREGON CITY, OREGON 97143

**Kairos Power**

**SITES**  
 SOUTHWEST

1700-B CENTRAL AVE. S.W.  
 PHOENIX, AZ 85020 USA  
 TEL: 602.998.8888  
 E-MAIL: info@kairos-power.com  
 WEB: www.kairos-power.com

NOT FOR CONSTRUCTION

KAIROIS POWER SALT FACILITY

5201 HAWKING DRIVE SE, ALBUQUERQUE, NM 87105  
 TR D-1-A-MESA DEL SOL INNOVATIONPARK II (A SUBDIVISION OF TRACT D MESA DEL SOL INNOVATIONPARK II)

LAND USE REVIEW

PROJECT NO.: 8000-22  
 DRAWN BY:  
 DATE: SEPTEMBER 1, 2024

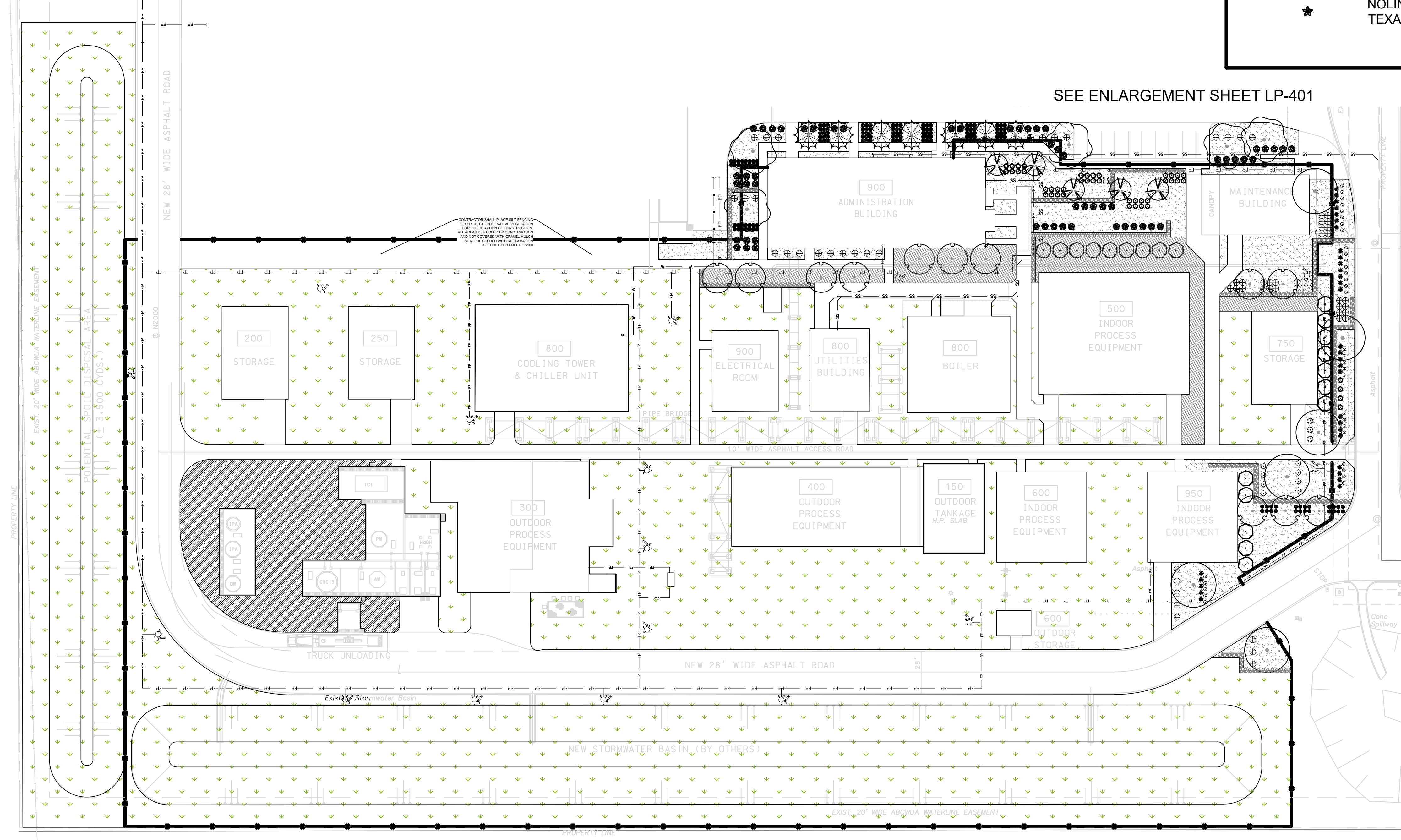
LANDSCAPE CALCULATIONS  
 LP-100



| LEGEND |  | QTY       |
|--------|--|-----------|
|        | 1" ANGULAR GRAVEL MULCH. 4" DEPTH. COLOR: AMARETTO BROWN, WITH DEWITT PRO-5 FILTER FABRIC.                     | 25,598 SF |
|        | SHREDDED BARK MULCH. 4" DEPTH. 'NATIVE' BARK MULCH AVAILABLE FROM SOILUTIONS, WITH DEWITT PRO-5 FILTER FABRIC. | 7,514 SF  |
|        | COBBLE WATER HARVESTING TRENCH. SEE DETAIL E/LP-501  | 2,495 SF  |
|        | PERIPLUCA GRAECA (x2 PER PLANTER) SILK VINE (1 GAL, 20x20 (HT/SPRD) SEE DETAIL F/LP-501                        | 42        |

| PLANT SCHEDULE |  |            |                 |     |
|----------------|--|------------|-----------------|-----|
| SYMBOL         | BOTANICAL / COMMON NAME                          | HT. & SPD. | CAL.            | QTY |
| <b>TREES</b>   |  |            |                 |     |
|                | CELTIS LAEVIGATA RETICULATA<br>NETLEAF HACKBERRY | 25' X 25'  | 2" CAL.         | 6   |
|                | CHILOPSIS LINEARIS<br>DESERT WILLOW              | 20' X 20'  | 2" CAL.         | 12  |
|                | JUNIPERUS SCOPULORUM<br>ROCKY MOUNTAIN JUNIPER   | 30' X 20'  | 6' - 8' HT. B&B | 7   |
|                | SAPINDUS DRUMMONDII<br>WESTERN SOAPBERRY         | 25' X 30'  | 2" CAL.         | 5   |
|                | VITEX AGNUS-CASTUS<br>CHASTE TREE                | 15' X 15'  | 2" CAL.         | 5   |

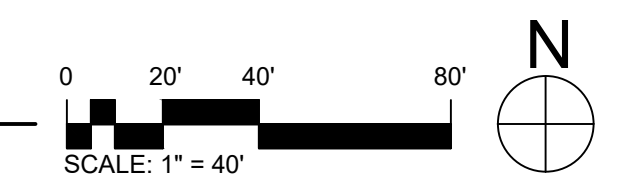
| SYMBOL         | BOTANICAL / COMMON NAME     | HT. & SPR. | SIZE   | QTY |
|----------------|-----------------------------|------------|--------|-----|
| <b>SHRUBS</b>  |                             |            |        |     |
|                | ARTEMISIA FILIFOLIA         | 3' X 4'    | 5 GAL. | 57  |
|                | SAND SAGEBRUSH              |            |        |     |
|                | CERCOCARPUS LEDIFOLIUS      | 12' X 10'  | 5 GAL. | 22  |
|                | CURL-LEAF MOUNTAIN MAHOGANY |            |        |     |
|                | CHAMAEBATIARIA MILLEFOLIUM  | 5' X 5'    | 5 GAL. | 1   |
|                | FERNBUSH                    |            |        |     |
|                | FALLOPIJA AUBERTII          |            |        |     |
|                | SILVER LACE VINE            | 5 LBS      |        | 2   |
|                | PENSTEMON PINIFOLIUS        | 1' X 2'    | 1 GAL. | 25  |
|                | PINELEAF PENSTEMON          |            |        |     |
|                | POTENTILLA FRUTICOSA        | 3' X 3'    | 1 GAL. | 44  |
|                | 'GOLDFINGER'                |            |        |     |
|                | GOLDFINGER BUSH CINQUEFOIL  |            |        |     |
|                | SALVIA DORRII               | 2' X 3'    | 1 GAL. | 33  |
|                | DESERT SAGE                 |            |        |     |
|                | TEUCRIUM CHAMAEDRYS         | 1' X 2'    | 1 GAL. | 35  |
|                | GERMANDER                   |            |        |     |
| <b>GRASSES</b> |                             |            |        |     |
|                | BOUTELOUA CURTIPENDULA      | 3' X 2'    | 1 GAL. | 121 |
|                | SIDE OATS GRAMA             |            |        |     |
|                | MUHLENBERGIA RIGENS         | 4' X 4'    | 1 GAL. | 65  |
|                | DEER GRASS                  |            |        |     |
|                | NOLINA MICROCARPA           | 6' X 4'    | 1 GAL. | 12  |
|                | SACAHUISTA                  |            |        |     |
|                | NOLINA TEXANA               | 2' X 2'    | 1 GAL. | 1   |
|                | TEXAS SACAHUISTA            |            |        |     |



SEE ENLARGEMENT SHEET LP-401

| SEEDING SCHEDULE  |                        |          |
|---|------------------------|----------|
| RECLAMATION SEED MIX<br>(per Section 1013 City of Abq. Seed Mix - a. Gravelly Uplands & Slopes) |                        |          |
| Botanical   | Common Name            | #PLS/ AC |
| Bouteloua gracilis 'Hachita'  | Blue Grama Bouteloua   | 7.0      |
| Bouteloua curtipendula 'Niner'  | Side oats Grama        | 5.0      |
| Stipa neomexicana   | Needle & Thread Grass  | 2.0      |
| Oryzopsis hymenoides  | Indian Rice Grass      | 2.0      |
| Koeleria macrantha  | June Grass             | 1.0      |
| Aristida purpurea   | Purple Threeawn        | 1.0      |
| Pleuraphis jamesii 'Viva'   | Galleta                | 1.0      |
| Dalea purpurea var purpurea   | Purple Prairie Clover  | 0.25     |
| Ratibida columnifera pulcherrima  | Mexican Hat            | 0.25     |
| Gaillardia aristata   | Blanket Flower         | 0.25     |
| Sphaeralcea parvifolia  | Nelson Globemallow     | 0.25     |
| Oenothera pallida   | White Evening Primrose | 0.25     |
| Baileya multiradiata  | Desert Marigold        | 0.25     |
| Berlandiera lyrata  | Chocolate Flower       | 0.25     |
| Abronia fragrans or villosa   | Sand Verbena           | 0.25     |

**A1** LANDSCAPE PLANTING PLAN  
1" = 40'-0"



NOT FOR CONSTRUCTION

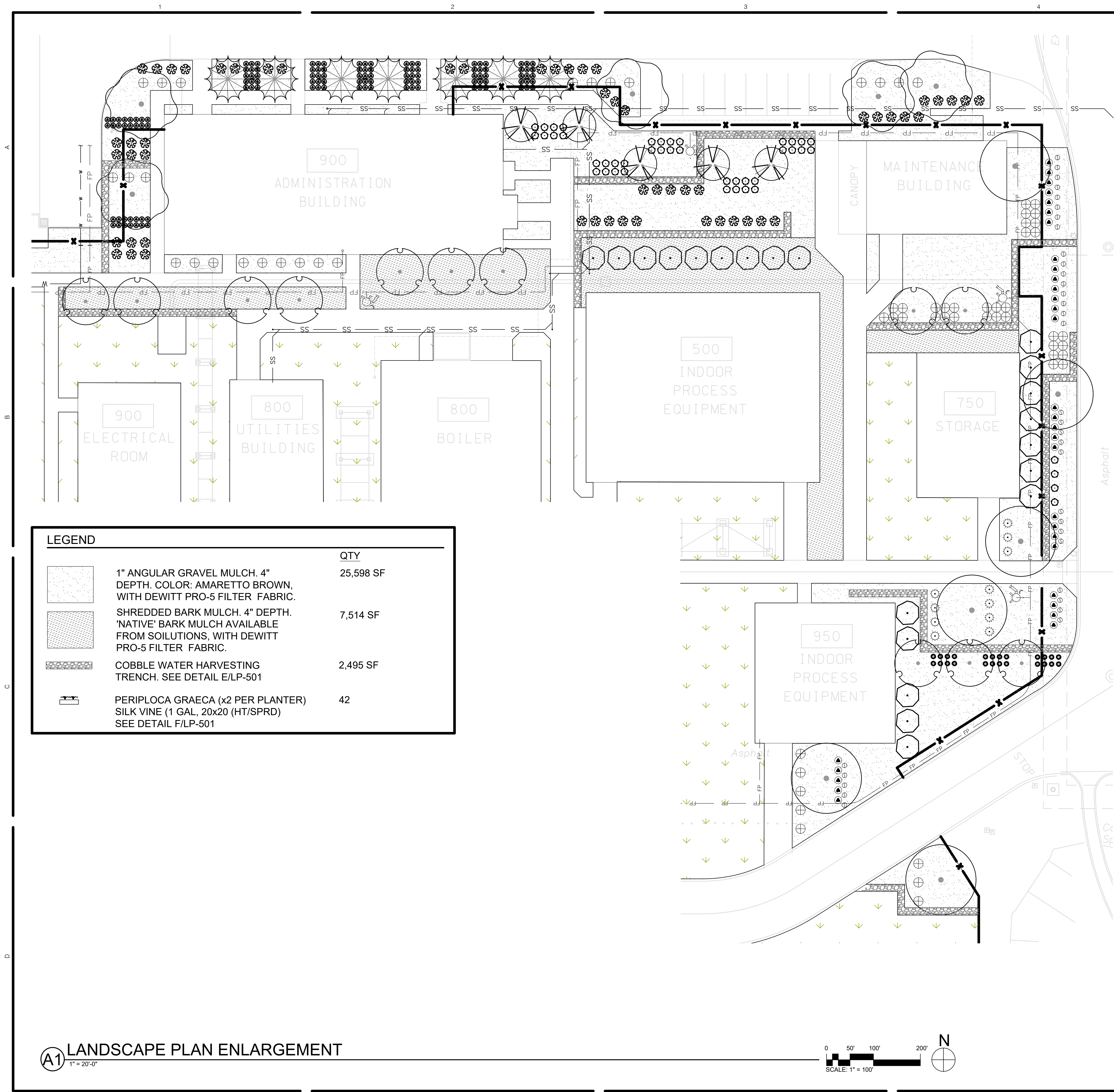
KAIROIS POWER SALT FACILITY

PROJECT NO.: 8000-22  
DRAWN BY:  
DATE: SEPTEMBER 1, 2024

LANDSCAPE PLANTING PLAN  
LP-101

LAND USE REVIEW





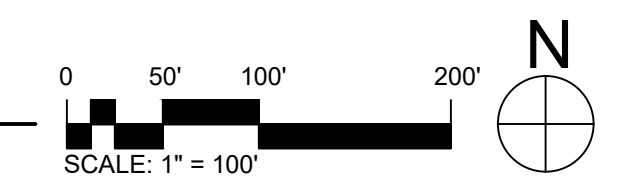
**PLANT SCHEDULE**

| SYMBOL         | BOTANICAL / COMMON NAME                               | HT. & SPD. |
|----------------|---|------------|
| <b>TREES</b>   |   |            |
|                | CELTIS LAEVIGATA RETICULATA<br>NETLEAF HACKBERRY      | 25' X 25'  |
|                | CHILOPSIS LINEARIS<br>DESERT WILLOW                   | 20' X 20'  |
|                | JUNIPERUS SCOPULORUM<br>ROCKY MOUNTAIN JUNIPER        | 30' X 20'  |
|                | SAPINDUS DRUMMONDII<br>WESTERN SOAPBERRY              | 25' X 30'  |
|                | VITEX AGNUS-CASTUS<br>CHASTE TREE                     | 15' X 15'  |
| <b>SHRUBS</b>  |   |            |
|                | ARTEMISIA FILIFOLIA<br>SAND SAGEBRUSH                 | 3' X 4'    |
|                | CERCOCARPUS LEDIFOLIUS<br>CURL-LEAF MOUNTAIN MAHOGANY | 12' X 10'  |
|                | CHAMAEBATIARIA MILLEFOLIUM<br>FERNBUSH                | 5' X 5'    |
|                | FALLOPIA AUBERTII<br>SILVER LACE VINE                 | 5 LBS      |
|                | PENSTEMON PINIFOLIUS<br>PINELEAF PENSTEMON            | 1' X 2'    |
|                | POTENTILLA FRUTICOSA<br>'GOLDFINGER'                  | 3' X 3'    |
|                | GOLDFINGER BUSH CINQUEFOIL<br>SALVIA DORRII           | 2' X 3'    |
|                | DESERT SAGE<br>TEUCRIUM CHAMAEDRYS                    | 1' X 2'    |
|                | GERMANDER   |            |
| <b>GRASSES</b> |   |            |
|                | BOUTELOUA CURTIPENDULA<br>SIDE OATS GRAMA             | 3' X 2'    |
|                | MUHLENBERGIA RIGENS<br>DEER GRASS                     | 4' X 4'    |
|                | NOLINA MICROCARPA<br>SACAHUISTA                       | 6' X 4'    |
|                | NOLINA TEXANA<br>TEXAS SACAHUISTA                     | 2' X 2'    |

MATCHLINE - SEE SHEET LP-102

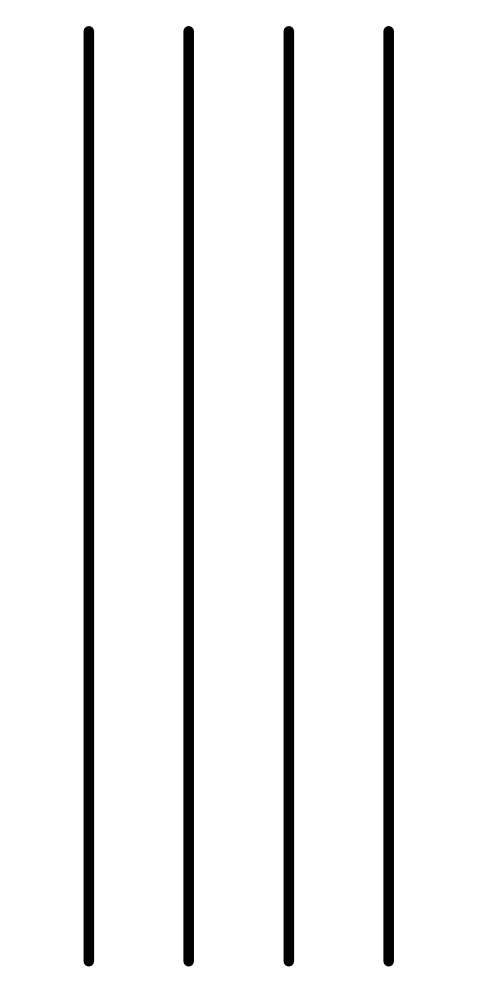
|  | QTY       |
|--|-----------|
| 1" ANGULAR GRAVEL MULCH. 4" DEPTH. COLOR: AMARETTO BROWN, WITH DEWITT PRO-5 FILTER FABRIC.                     | 25,598 SF |
| SHREDDED BARK MULCH. 4" DEPTH. 'NATIVE' BARK MULCH AVAILABLE FROM SOILUTIONS, WITH DEWITT PRO-5 FILTER FABRIC. | 7,514 SF  |
| COBBLE WATER HARVESTING TRENCH. SEE DETAIL E/LP-501  | 2,495 SF  |
| PERIPLUCA GRAECA (x2 PER PLANTER)<br>SILK VINE (1 GAL., 20x20 (HT/SPRD)<br>SEE DETAIL F/LP-501                 | 42        |

**A1 LANDSCAPE PLAN ENLARGEMENT**  
1" = 20'-0"



NOT FOR CONSTRUCTION

KAIROS POWER SALT FACILITY



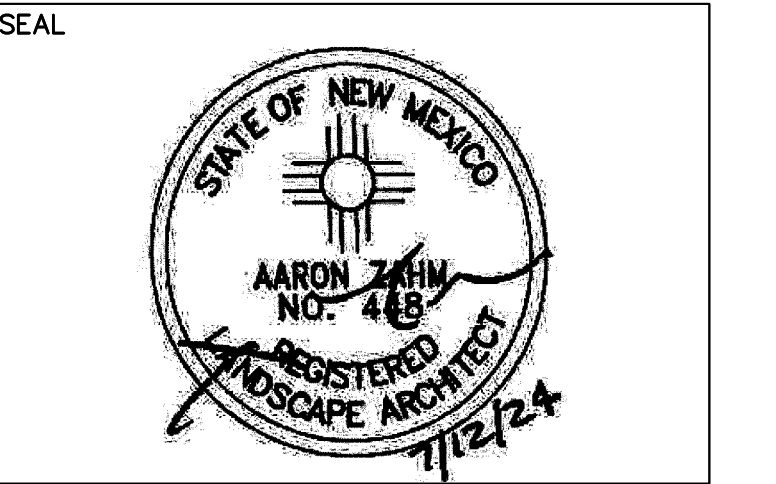
PROJECT NO.: 8000-22  
DRAWN BY:  
DATE: SEPTEMBER 1, 2024

**LANDSCAPE PLAN ENLARGEMENT LP-401**

LAND USE REVIEW



CONSULTANTS



PROJECT NAME AND ADDRESS

**KAIROS POWER  
EMPLOYEE PATIO**  
5201 HAWKING DR  
ALBUQUERQUE NM 87106

DATE: JULY 12, 2024  
SUBMITTAL: 100%  
CONSTRUCTION DOCUMENTS

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
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MRWM PROJECT NO 24025  
DESIGNED BY LJ CHECKED BY AZ  
DRAWN BY CE-FB

SHEET TITLE

**COVER SHEET**

SHEET NUMBER

**G001**

# KAIROS POWER EMPLOYEE PATIO

5201 Hawking Dr SE  
ALBUQUERQUE, NM 87106

JULY 12, 2024

## 100% CONSTRUCTION DOCUMENTS

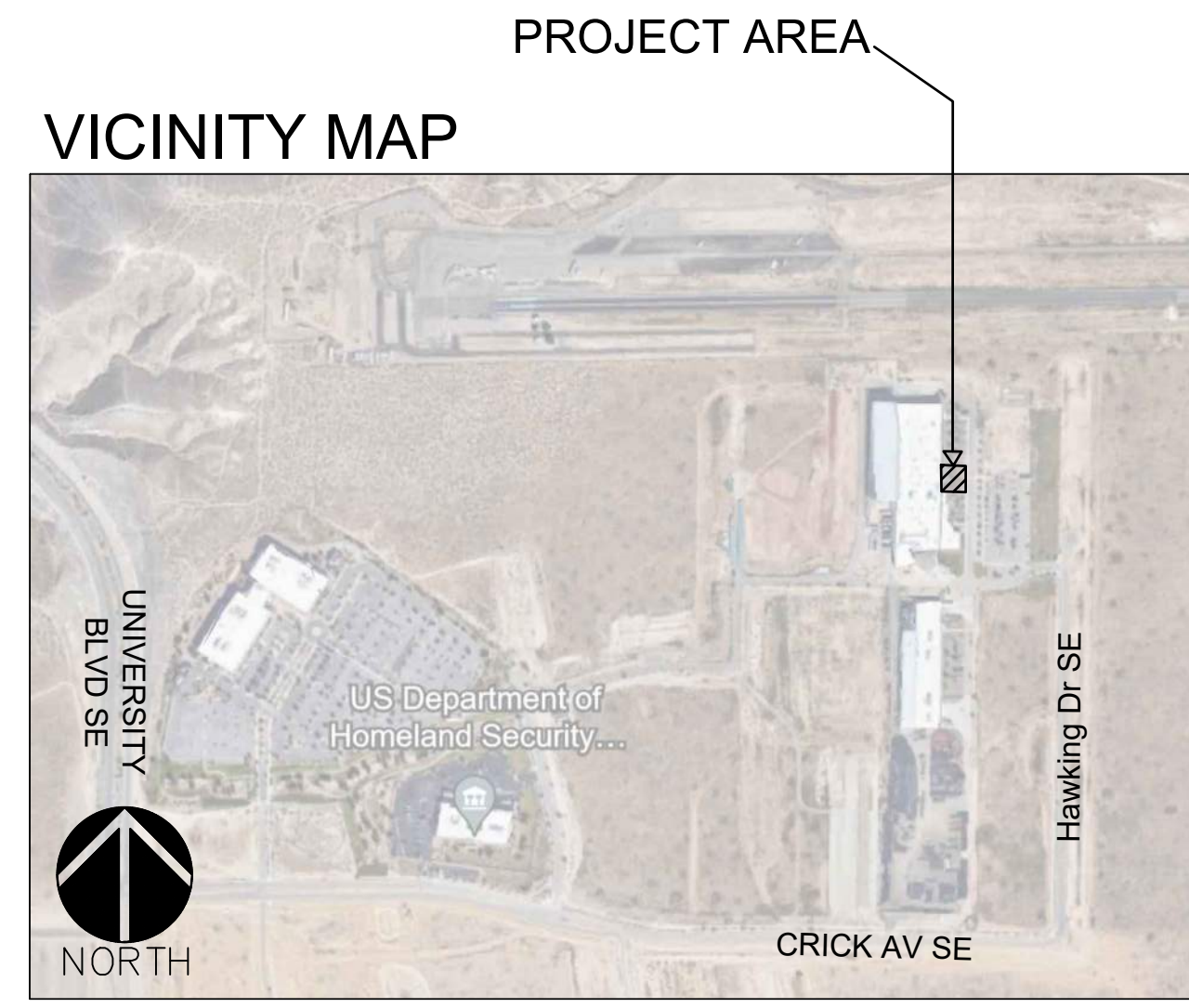
- 1. G001 COVER SHEET
- 2. LD101 DEMOLITION PLAN
- 3. LS101 SITE PLAN
- 4. LS501 SITE DETAILS
- 5. LK101 DIMENSION PLAN
- 6. LP101 PLANTING PLAN
- 7. LP501 PLANTING DETAILS
- 8. LI101 IRRIGATION PLAN
- 9. LI501 IRRIGATION DETAILS

**DESIGN TEAM:**  
LANDSCAPE ARCHITECT

PLAND COLLABORATIVE  
600 1ST ST NW, STE 100  
ALBUQUERQUE, NM 87102  
505-268-2266 PH  
505-265-9637 FX  
ATTN: LANA IDRIS, PLA, ASLA  
LIDRISS@PLANDCOLLAB.COM

**OWNER:**  
KAIROS POWER

5201 HAWKING DR SE,  
ALBUQUERQUE, NM 87106  
505-431-1255 PH  
ATTN: RHONDA REYNOLDS  
REYNOLDS@KAIROSPOWER.COM



CONSULTANTS

SEAL



PROJECT NAME AND ADDRESS

**KAIROS POWER  
EMPLOYEE PATIO**  
5201 HAWKING DR  
ALBUQUERQUE NM 87106

DATE: JULY 12, 2024  
SUBMITTAL  
100%  
CONSTRUCTION DOCUMENTS

REVISIONS

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MRWM PROJECT NO 24025  
DESIGNED BY LJ CHECKED BY AZ  
DRAWN BY CE

SHEET TITLE

**DEMOLITION PLAN**

SHEET NUMBER

**LD101**

**GENERAL DEMOLITION NOTES**

| CODE  | DESCRIPTION   |
|-------|---|
| GD-01 | CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.   |
| GD-02 | TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL SYSTEM (1-800-321-2537) FOR LOCATION OF EXISTING UTILITIES.  |
| GD-03 | CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE NO DAMAGE OCCURS TO EXISTING STRUCTURES, PAVEMENT TO REMAIN, OR ITEMS TO BE SALVAGED. ANY DAMAGE TO ITEMS TO REMAIN OR TO BE SALVAGED RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.  |
| GD-04 | CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BID AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES. NO ADJUSTMENTS TO THE CONTRACT SUM OR TIME SHALL BE MADE FOR CONDITIONS THAT ARE CLEARLY VISIBLE, YET NOT VERIFIED. FAILURE TO COMPLETE ADEQUATE FIELD VERIFICATION PRIOR TO BID IS DONE SO AT THE CONTRACTOR'S OWN RISK. |
| GD-05 | PRIOR TO DEMOLITION OPERATIONS, THE CONTRACTOR SHALL BE REQUIRED TO DOCUMENT ALL EXISTING CONDITIONS DIRECTLY ADJACENT TO THE PROJECT AREA AND THE CONDITION OF ANY EXISTING ITEMS TO REMAIN WITHIN THE PROJECT AREA. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE OWNER BEFORE PROCEEDING WITH ANY WORK.  |
| GD-06 | ALL AREAS ADJACENT TO THE SITE SHALL BE MAINTAINED IN A CLEAN CONDITION, MUD AND DUST FREE AT ALL TIMES.  |

**TREE PROTECTION NOTES**

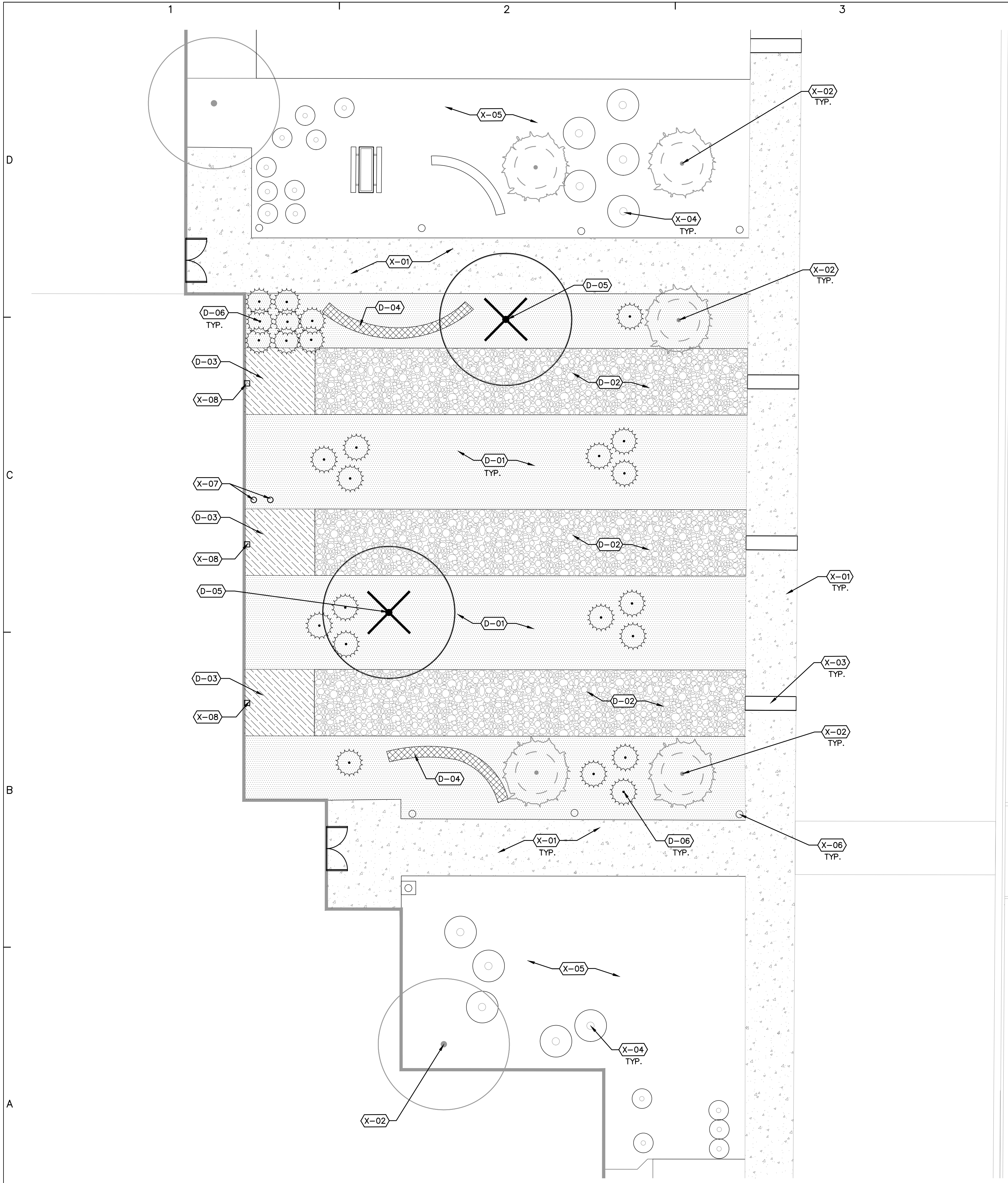
| CODE  | DESCRIPTION   |
|-------|---|
| TP-01 | CONTRACTOR SHALL ESTABLISH A ROOT PROTECTION ZONE AROUND EACH EXISTING TREE TO REMAIN. THE ROOT PROTECTION ZONE SHALL BE AN AREA DEFINED BY A RADIUS EXTENDING OUTWARD FROM THE TRUNK OF THE TREE A DISTANCE OF ONE LINEAR FEET FOR EACH INCH DIAMETER OF THE TREE. THE TREE DIAMETER SHALL BE MEASURED AT BREAST HEIGHT (4.5' ABOVE FINISH GRADE). EXAMPLE: A 10 INCH DIAMETER TREE WILL HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE. |
| TP-02 | CONTRACTOR SHALL INSTALL FENCING AT THE PERIMETER OF ROOT PROTECTION ZONES. NO WORK SHALL BEGIN WHERE TREE PROTECTION FENCING HAS NOT BEEN COMPLETED AND APPROVED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING CONSTRUCTION. THE FENCING SHALL BE A MINIMUM OF 4' HEIGHT.  |
| TP-03 | CONTRACTOR SHALL NOT STORE OR DRIVE EQUIPMENT, VEHICLES, OR MATERIALS WITHIN THE ROOT PROTECTION ZONE.  |
| TP-04 | CONTRACTOR SHALL PROTECT EXISTING ROOTS FROM DAMAGE WHEN WORKING WITHIN THE ROOT PROTECTION ZONE. THE CONTRACTOR SHALL LIMIT DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES WITHIN THE ROOT PROTECTION ZONE TO THE MINIMUM DISTURBANCE REQUIRED TO COMPLETE CONSTRUCTION.  |
| TP-05 | CONTRACTOR SHALL NOT ALLOW CONCRETE TRUCKS TO CLEAN CHUTES OR DUMP EXCESS CONCRETE OR ANY OTHER CEMENTITIOUS PRODUCTS IN ANY PORTION OF THE SITE. CONTRACTOR SHALL CLEAN THE WASTE OF OTHER CEMENTITIOUS MATERIALS FROM THE SURFACE AND THEY SHALL NOT BE TURNED UNDER DURING FINAL GRADING.  |
| TP-06 | CONTRACTOR SHALL NOT TRENCH WITHIN THE DRIPLINE OF EXISTING TREES. AT LOCATIONS WHERE IT IS NECESSARY TO INSTALL LINES OR WIRE WITHIN THE DRIPLINE OF EXISTING TREES, THE UTILITY SHALL BE INSTALLED BY HAND OR BY BORING UNDER TREE ROOTS.   |
| TP-07 | CONTRACTOR SHALL PROVIDE TEMPORARY WATERING AS REQUIRED TO MAINTAIN THE HEALTH OF THE TREE THROUGHOUT THE DURATION OF CONSTRUCTION OPERATIONS.  |
| TP-08 | CONTRACTOR SHALL REVIEW PROPOSED SCOPE OF TREE PROTECTION AND TEMPORARY WATERING WITH LANDSCAPE ARCHITECT PRIOR TO EXECUTION.   |

**DEMOLITION SCHEDULE**

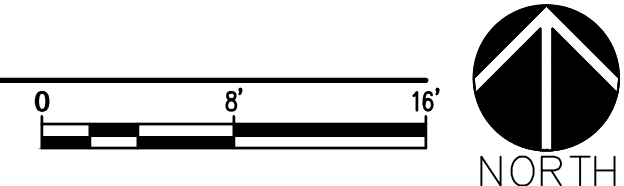
| CODE | DESCRIPTION   |
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| D-01 | REMOVE AND PROPERLY DISPOSE OF GRAVEL MULCH AND SOIL TO DEPTH REQUIRED FOR NEW WORK. SEE SITE PLAN.   |
| D-02 | REMOVE AND PROPERLY DISPOSE OF COBBLE MULCH AND SOIL TO DEPTH REQUIRED FOR NEW WORK. SEE SITE PLAN.   |
| D-03 | REMOVE AND PROPERLY DISPOSE OF CONCRETE SPLASH PAD.   |
| D-04 | REMOVE AND PROPERLY DISPOSE OF SLUMP BLOCK SEAT WALL AND ASSOCIATED CONCRETE FOOTING.   |
| D-05 | REMOVE AND PROPERLY DISPOSE OF TREE. GRIND STUMP TO A DEPTH OF 24" BELOW FINISHED GRADE. REMOVE STUMP GRINDINGS, FILL AND COMPACT VOID WITH CLEAN SOIL BACKFILL |
| D-06 | REMOVE AND PROPERLY DISPOSE OF EXISTING SHRUB.  |

**EXISTING CONDITIONS NOTES**

| CODE | DESCRIPTION   |
|------|---|
| X-01 | EXISTING SIDEWALK TO REMAIN.  |
| X-02 | EXISTING TREE TO REMAIN. SEE TREE PROTECTION NOTES.   |
| X-03 | EXISTING SIDEWALK CULVERT TO REMAIN.  |
| X-04 | EXISTING SHRUB TO REMAIN.   |
| X-05 | EXISTING LANDSCAPE MULCH TO REMAIN.   |
| X-06 | EXISTING BOLLARD LIGHT TO REMAIN.   |
| X-07 | EXISTING SEWER CLEANOUT. ADJUST TO BE FLUSH WITH NEW FINISH GRADE MATERIAL - SEE SITE PLAN. |
| X-08 | EXISTING DOWNSPOUT. SEE SITE PLAN FOR MODIFICATION.   |



**A1** DEMOLITION PLAN  
SCALE: 1/8"=1'-0"





CONSULTANTS

SEAL



PROJECT NAME AND ADDRESS

**KAIROS POWER  
EMPLOYEE PATIO**  
5201 HAWKING DR  
ALBUQUERQUE NM 87106

DATE: JULY 12, 2024  
SUBMITTAL  
100%  
CONSTRUCTION DOCUMENTS

REVISIONS

| NO. | DATE | DESCRIPTION |
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MRWM PROJECT NO 24025  
DESIGNED BY LJ CHECKED BY AZ  
DRAWN BY FB

SHEET TITLE

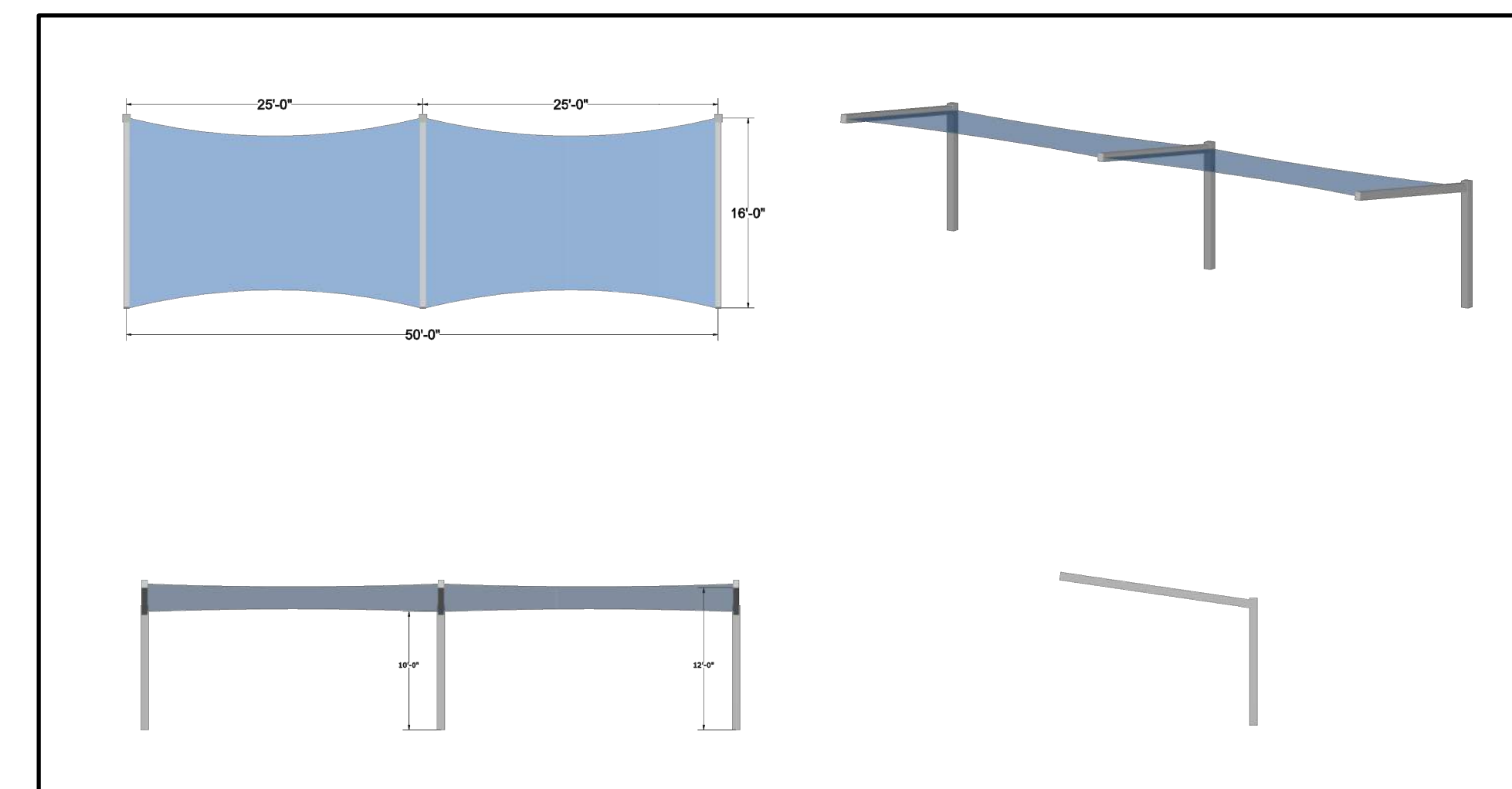
**SITE PLAN**

SHEET NUMBER

**LS101**

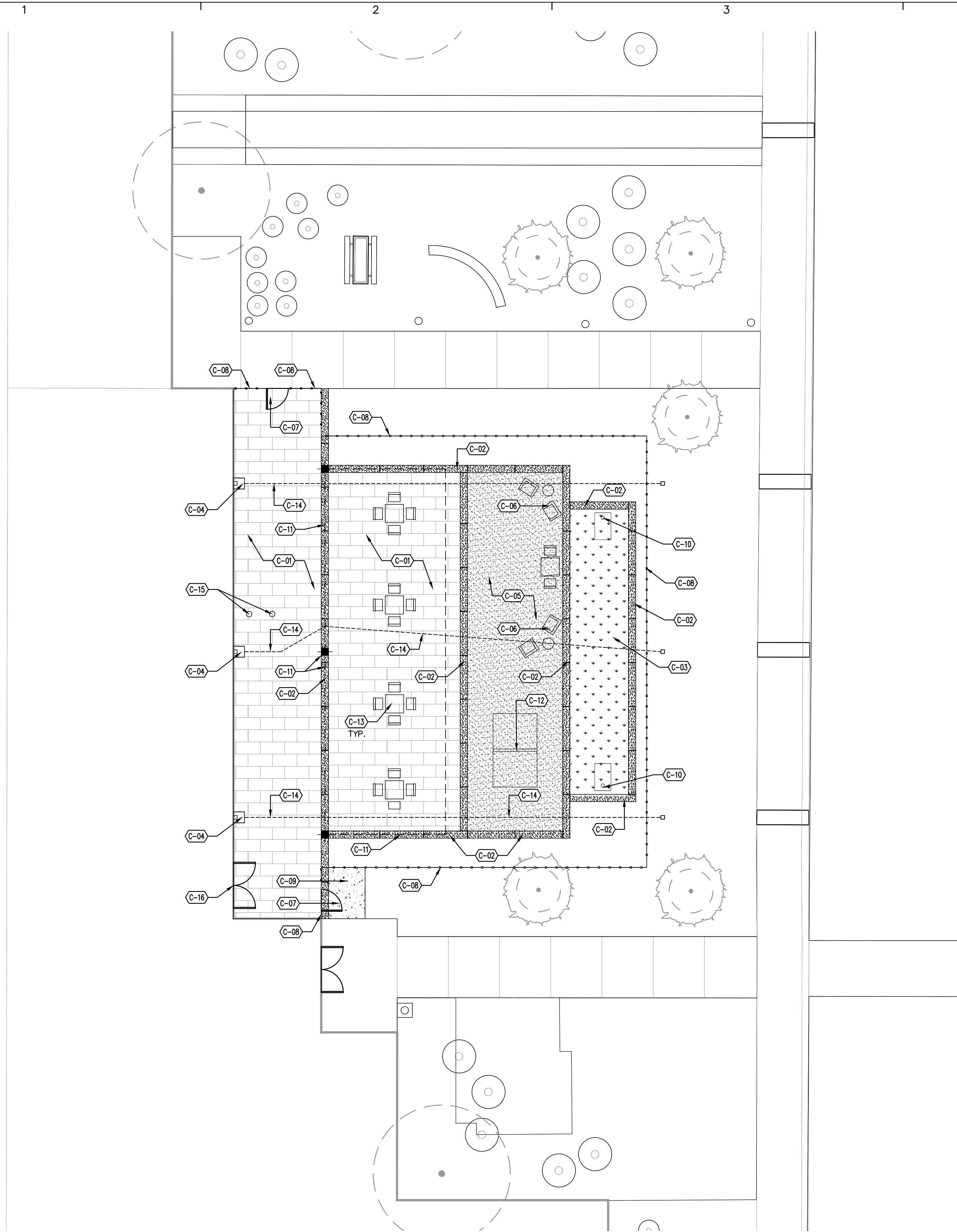
**KEYED NOTES**

| CODE | DESCRIPTION  | DETAIL   |
|------|--|----------|
| C-01 | INSTALL BRICK PAVERS OVER COMPACTED BASE COURSE. PATTERN: BASKETWEAVE. COLOR: SUMMIT DESERT MIRAGE. AS AVAILABLE FROM KINNEY BRICK (505-877-4550).                                 | A5/LS501 |
| C-02 | CONSTRUCT 12" WIDE CONCRETE ACCENT BAND WITH BROOM FINISH AND INTEGRAL COLOR. COLOR: DAVIS SIERRA 61078. PROVIDE EXPANSION JOINTS AT MAX. 20'-0" AND CONTROL JOINTS AT MAX. 5'-0". | C3/LS501 |
| C-03 | INSTALL ARTIFICIAL TURF OVER PREPARED BASE.  | A3/LS501 |
| C-04 | INSTALL 18" SQUARE CATCH BASIN AND MODIFY EXISTING DOWNSPOUT.  | C5/LS501 |
| C-05 | INSTALL STABILIZED CRUSHER FINES PAVING. CRUSHER FINES SHALL BE 'SANTA FE BROWN', AS AVAILABLE FROM BUILDODOLOGY (505-344-6626).   | D5/LS501 |
| C-06 | OWNER-PROVIDED LOUNGE CHAIRS AND SIDE TABLE- N.I.C.  |          |
| C-07 | CONSTRUCT 4' HEIGHT BY 3' WIDE WELDED WIRE MESH GATE.  | A1/LS501 |
| C-08 | CONSTRUCT 4' HEIGHT WELDED WIRE MESH FENCING.  | D1/LS501 |
| C-09 | CONSTRUCT 4" CONCRETE WITH BROOM FINISH. COLOR: GREY.  | B3/LS501 |
| C-10 | OWNER-PROVIDED CORNHOLE- N.I.C.  |          |
| C-11 | FURNISH AND INSTALL 16' X 50' FABRIC SHADE STRUCTURE, SKYWAYS CP039590, AS AVAILABLE FROM EXERPLAY, INC. (505-281-0151). COLOR: SKY BLUE. SEE A4/LS101.                            |          |
| C-12 | OWNER-PROVIDED PING PONG TABLE- N.I.C.   |          |
| C-13 | OWNER-PROVIDED TABLE AND CHAIRS- N.I.C.  |          |
| C-14 | INSTALL 8" PVC PIPING.   |          |
| C-15 | ADJUST EXISTING SANITARY SEWER CLEANOUT TO BE FLUSH WITH FINISH GRADE. INSTALL FLUSH THREADED BRASS CLEANOUT PLUG.   |          |
| C-16 | NEW EXIT DOOR - BY OTHERS. N.I.C.  |          |



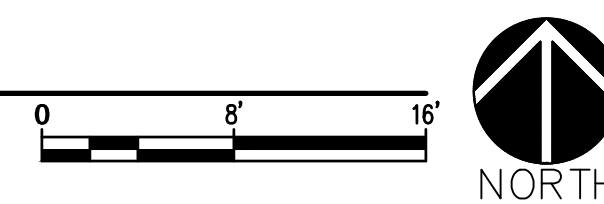
**A4** SHADE STRUCTURE 3D RENDERING

SCALE: N.T.S.



**A1** SITE PLAN

SCALE: 1/8"=1'-0"





**KAIROS POWER  
EMPLOYEE PATIO**  
5201 HAWKING DR  
ALBUQUERQUE NM 87106

DATE JULY 12, 2024

SUBMITTAL

100%  
CONSTRUCTION DOCUMENTS

REVISIONS

| NO. | DATE | DESCRIPTION |
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MRWM PROJECT NO 24025

DESIGNED BY LJ CHECKED BY AZ

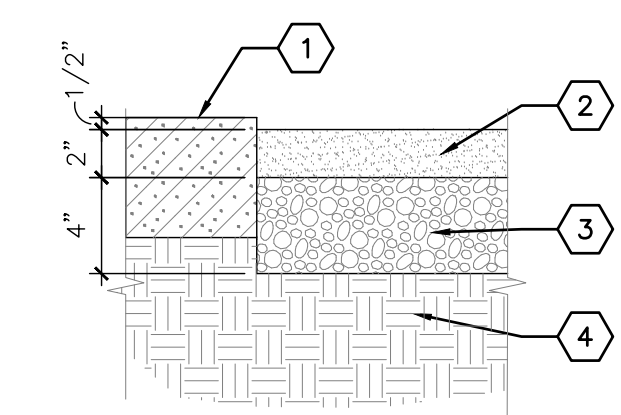
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SHEET TITLE

**SITE DETAILS**

SHEET NUMBER

LS501



**KEYED NOTES**

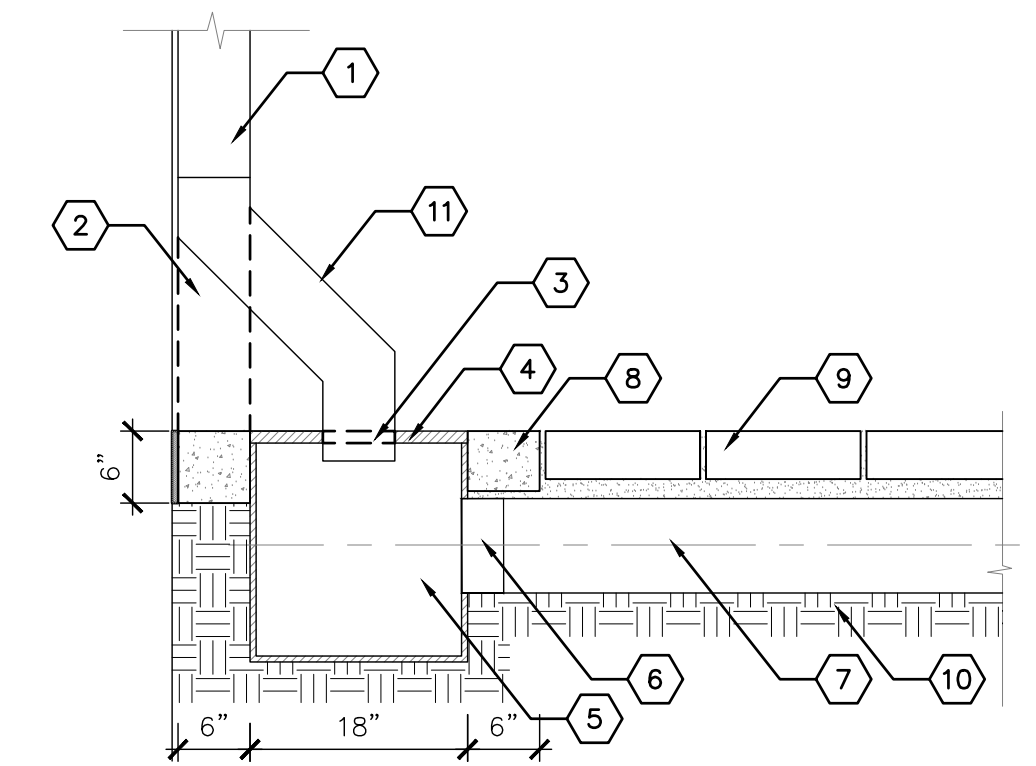
1. HARDENED EDGE ADJACENT CONDITION (CONCRETE CUB, PAVING, ETC.) - SEE PLAN.
2. CRUSHER FINES - SEE PLAN.
3. BASE COURSE COMPACTED TO 95%.
4. SUBGRADE COMPACTED TO 95%.

**GENERAL NOTES**

- A. CRUSHER FINES SHALL BE STABILIZED WITH 'STABILIZER' NATURAL BINDER, OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- B. NATURAL BINDER SHALL BE APPLIED AT A RATE OF 15 LBS. PER TON OF CRUSHER FINES.

**D5 STABILIZED CRUSHER FINES PAVING**

1 1/2" = 1'-0"

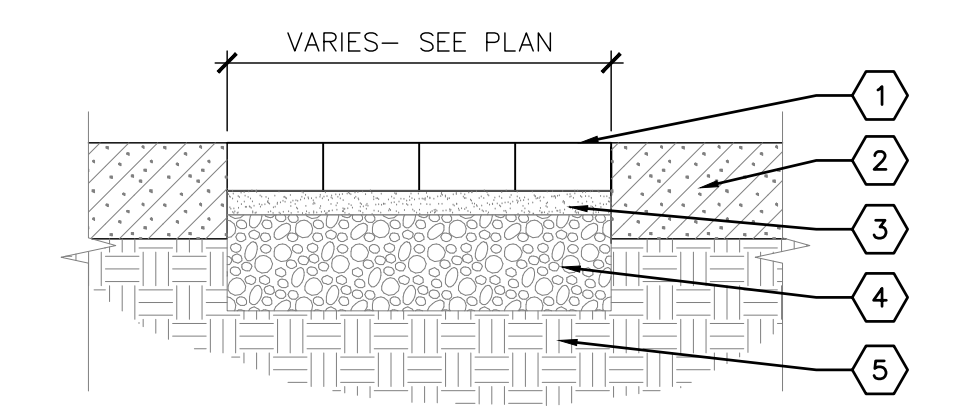
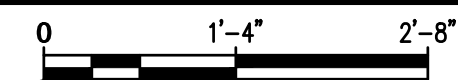


**KEYED NOTES**

1. EXISTING DOWNSPOUT
2. REMOVE PORTION OF EXISTING DOWNSPOUT
3. CUT GRATE TO ACCOMMODATE DOWNSPOUT
4. 18" SQUARE STRUCTURAL FOAM POLYOLEFIN GRATE WITH UV INHIBITOR, GRAY, NDS, PART NO. 1810
5. 18" X 18" EXPANDABLE CATCH BASIN, NDS, PART NO. 1800
6. 8" UNIVERSAL OUTLET, NDS, PART NO.1888
7. 8" DIAMETER PVC PIPING
8. 6" CONCRETE COLLAR
9. PAVERS, SEE PLAN
10. SUBGRADE COMPACTED TO 95%
11. FABRICATE REMOVABLE PORTION OF DOWNSPOUT, MATCHING COLOR AND PROFILE. FASTEN SECURELY TO EXISTING DOWNSPOUT USING APPROPRIATE HARDWARE.

**C5 CATCH BASIN - DOWNSPOUT**

3/4" = 1'-0"



**KEYED NOTES**

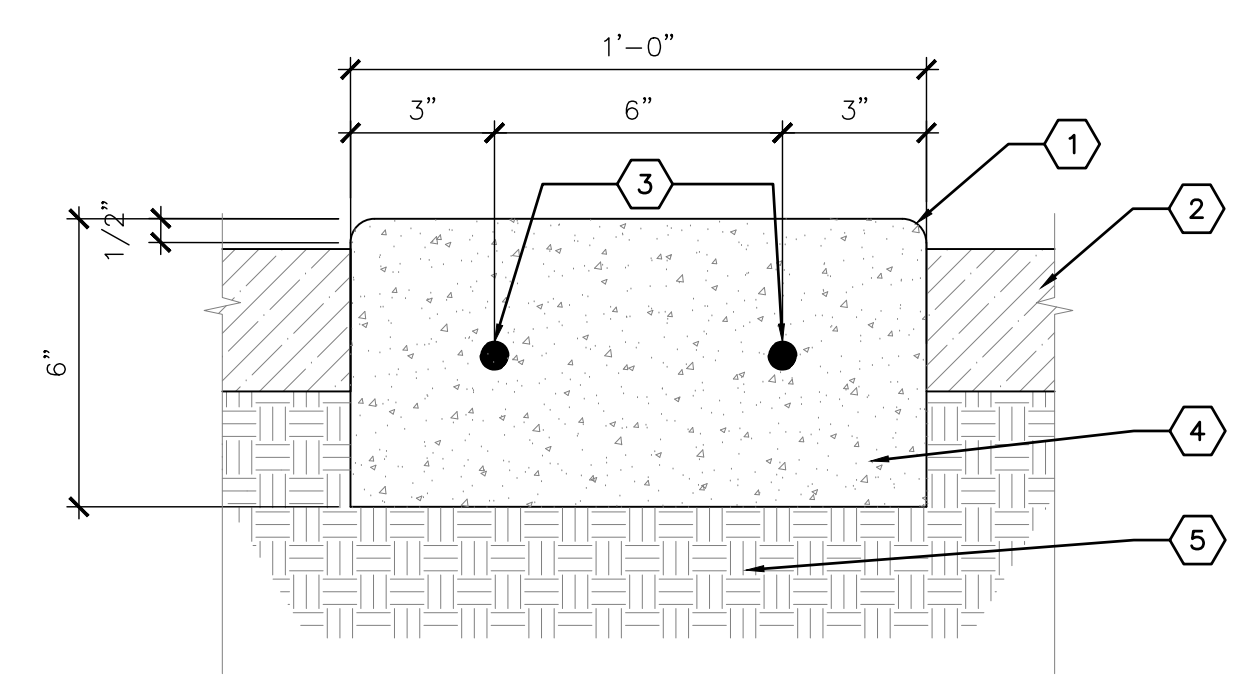
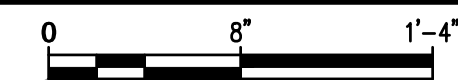
1. PAVERS - SEE PLAN.
2. ADJACENT CONDITION VARIES - SEE PLAN.
3. 1" DEPTH CONCRETE SAND LEVELING COURSE.
4. 4" DEPTH COMPACTED BASE COURSE (U.T.B.C. 1).
5. SUBGRADE COMPACTED TO 95%.

**GENERAL NOTES**

- A. REFERENCE PLAN FOR PAVES TYPE, COLOR, AND INSTALLATION PATTERN.
- B. WHERE PAVERS ABUT HARD CONSTRUCTION, PAVERS SHALL BE CLEANLY SAWCUT AS REQUIRED TO FIT.
- C. TOP OF PAVERS SHALL BE INSTALLED FLUSH WITH TOP OF ADJACENT PAVEMENT.
- D. AFTER PLACING PAVERS ON SAND LEVELING COURSE CONTRACTOR SHALL SWEEP DRY CONCRETE SAND INTO PAVES JOINTS AND VIBRATE WITH A PLATE COMPACTOR TO VIBRATE SAND INTO JOINTS. THESE STEPS SHALL BE REPEATED UNTIL ALL PAVES JOINTS ARE FILLED WITH CONCRETE SAND. UPON COMPLETION THE CONTRACTOR SHALL SWEEP OFF EXCESS SAND.
- E. ALL JOINT LINES SHALL NOT DEVIATE MORE THAN 1/2" OVER 50' FROM STRING LINES.
- F. PROVIDE JOINTS BETWEEN PAVERS 1/16" AND 3/16" WIDE. NO MORE THAN 5% OF THE JOINTS SHALL EXCEED 1/4" WIDE TO ACHIEVE STRAIGHT BOND LINES.
- G. FINAL SURFACE TOLERANCE FROM GRADE ELEVATIONS SHALL NOT DEVIATE MORE THAN 1/4" UNDER A 10' STRAIGHT EDGE.
- H. ALL PAVERS SHALL HAVE NO GREATER THAN 1/8" DIFFERENCE IN HEIGHT BETWEEN ADJACENT PAVERS.
- I. ALL PAVES JOINT LINES SHALL BE TRUE PARALLEL AND PERPENDICULAR TO EDGE OF ADJACENT HARD CONSTRUCTION.
- J. REFERENCE MANUFACTURER'S GUIDELINES FOR ADDITIONAL INSTALLATION REQUIREMENTS.
- K. TOP OF UTILITY BOXES SHALL BE FLUSH WITH TOP OF PAVERS. IRRIGATION BOXES, LIGHTING PULL BOXES, AND OTHER SURFACE APPURTENANCES SHALL BE SET PARALLEL TO THE RUN OF PRICK PAVERS.

**A5 PAVERS ON COMPACTED BASE COURSE**

1 1/2" = 1'-0"



**KEYED NOTES**

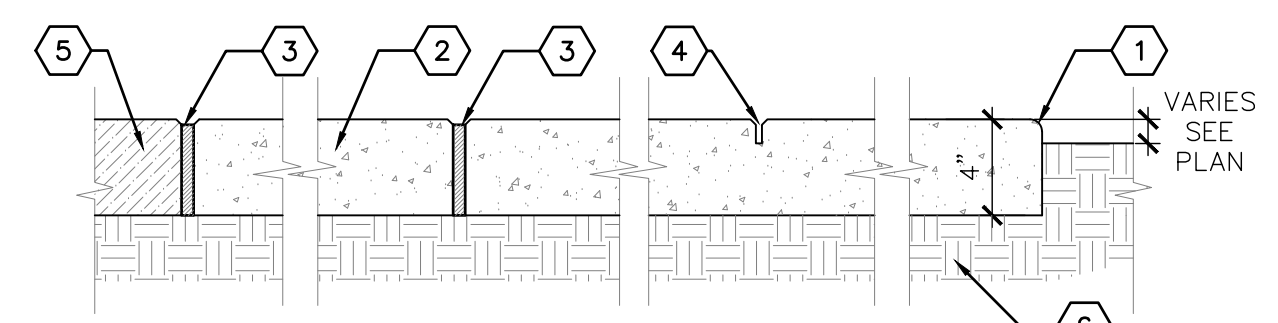
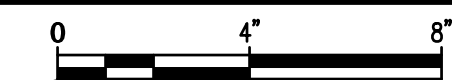
1. 1/2" RADIUS TOOLED EDGE.
2. LANDSCAPE AREA, MATERIAL VARIES.
3. #4 REBAR, HORIZ. AND CONT.
4. 3000 PSI CONCRETE.
5. SUBGRADE COMPACTED TO 95%.

**GENERAL NOTES**

- A. PLACE EXPANSION JOINTS @ 20'-0" O.C. MAXIMUM WITH CONTROL JOINTS @ 5'-0" O.C. MAXIMUM.
- B. TOP SURFACE OF EDGER SHALL HAVE A MEDIUM BROOM FINISH.

**C3 12" CONCRETE ACCENT BAND**

3" = 1'-0"



**KEYED NOTES**

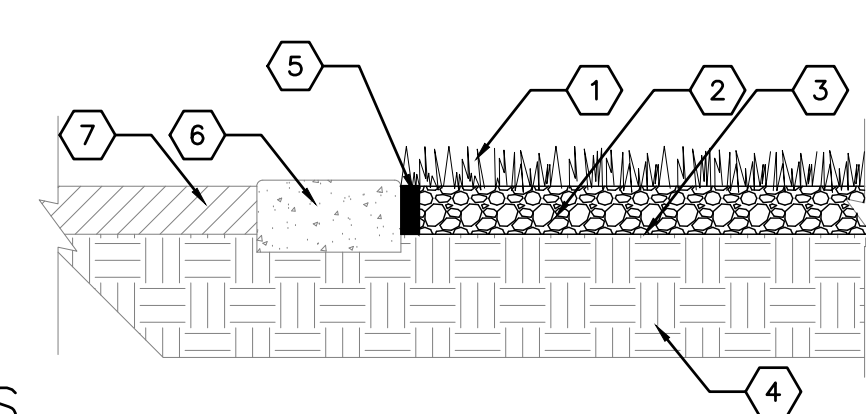
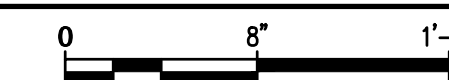
1. TOOLED EDGE, 1/2" RADIUS
2. 3000 PSI CONCRETE
3. 1/2" WIDE EXPANSION JOINT WITH FELT EXPANSION MATERIAL
4. 1/8" X 1" CONTROL JOINT
5. ADJACENT CONCRETE
6. SUBGRADE COMPACTED TO 95%

**GENERAL NOTES**

- A. CONTROL JOINTS SHALL BE AT MAXIMUM EVERY 10' OR AS SHOWN ON PLAN.
- B. EXPANSION JOINTS SHALL BE AT MAXIMUM EVERY 30' OR AS SHOWN ON PLAN AND WHERE PAVING ABUTS EXISTING BUILDINGS, CURBS, SEATING WALLS, WALKS AND OTHER HARD CONSTRUCTION.
- C. FELT EXPANSION MATERIAL SHALL BE RECESSED 1/2" AND SET WITH PLASTIC EXPANSION JOINT CAP. TOP OF CAP SHALL BE FLUSH WITH TOP OF CONCRETE. OPPOSING CONCRETE EDGES OF JOINT SHALL HAVE 1/4" RADIUS TOOLED EDGE.
- D. CONTROL JOINTS SHALL BE TOOLED OR SAW CUT TO INDICATED DEPTH. SAW CUT JOINTS SHALL BE CUT AFTER FINISHING OF CONCRETE USING AN EARLY ENTRY TYPE DRY CUT SAW. SPALLING OF CONCRETE FINISH AT EDGE OF CUT IS NOT ACCEPTABLE.
- E. PROVIDE MEDIUM BROOM FINISH UNLESS OTHERWISE NOTED ON THE PLANS.

**B3 4" THICK CONCRETE PAVING**

1 1/2" = 1'-0"



**KEYED NOTES**

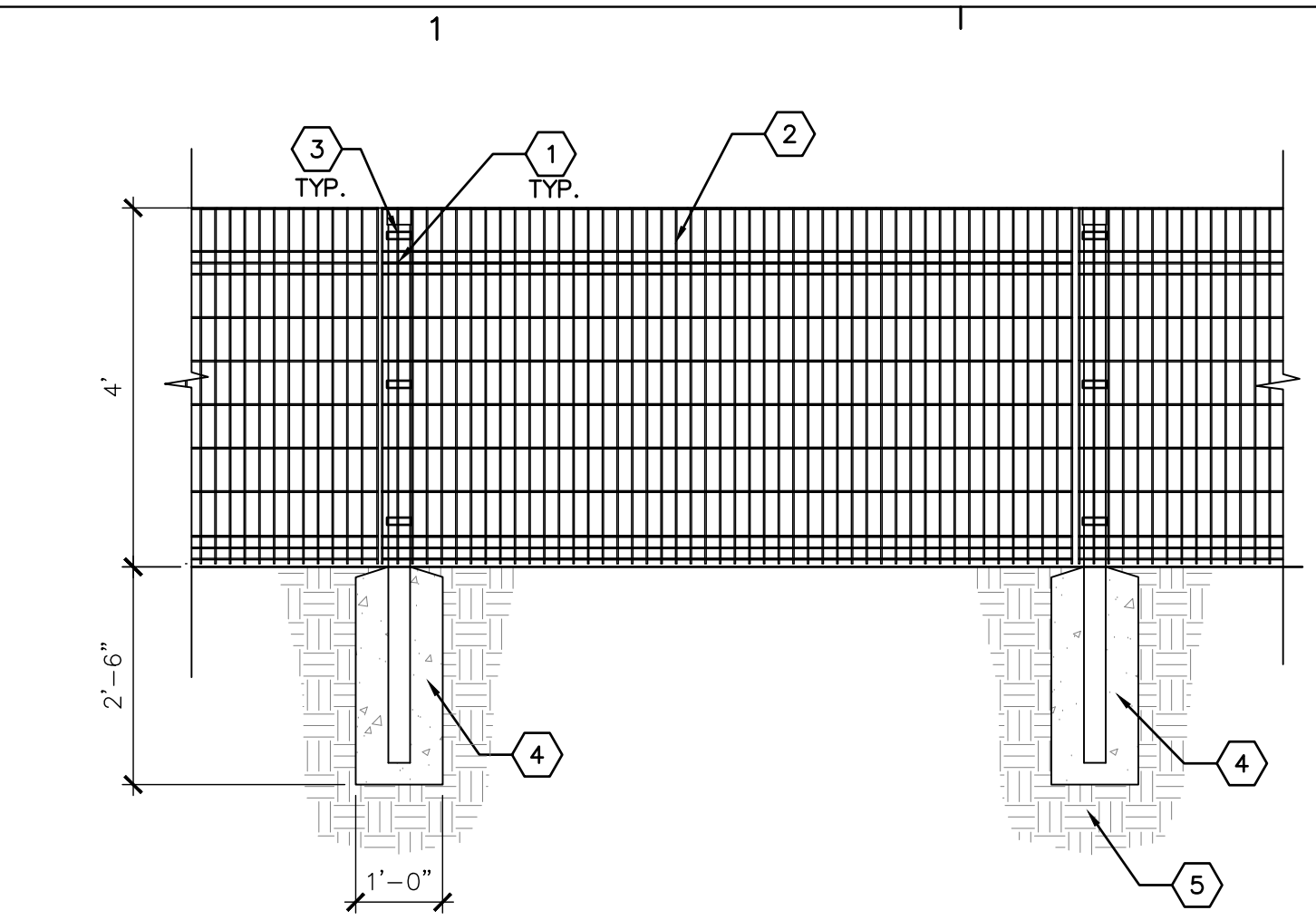
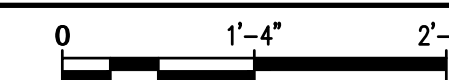
1. SYNTHETIC TURF SYSTEM WITH FILL MATERIAL - 'SYNLBLUE 745' AS AVAILABLE FROM SYNLAWN (505-890-8889), OR APPROVED EQUAL.
2. 4" MINIMUM DEPTH OF BASE COURSE MATERIAL - NMDOT TYPE 1.
3. MIRAFI 180N HEAVY WEIGHT NONWOVEN GEOTEXTILE FABRIC OR APPROVED EQUAL.
4. SUBGRADE COMPACTED TO 95% PROCTOR. SLOPE OF SUBGRADE SHALL BE PER GRADING PLAN.
5. 2" X 4" PRESSURE TREATED PINE OR RECYCLED PLASTIC NAILER BOARD, SEE GENERAL NOTE #1. NAILER BOARD SHALL BE SET 2" BELOW TOP OF CONCRETE.
6. CONCRETE ACCENT BAND - SEE PLAN
7. LANDSCAPE AREA, MATERIAL VARIES

**GENERAL NOTES**

1. NAILER BOARD AT ALL CORNERS AND CHANGES IN DIRECTIONS SHALL BE CONNECTED TOGETHER WITH (3) STAINLESS STEEL SCREWS TO CREATE A CONTINUOUS FRAME. CONTRACTOR SHALL PROVIDE SUBMITTAL FOR HARDWARE USED TO FASTEN NAILER BOARD TO CONCRETE SURFACES.

**A3 SYNTHETIC TURF**

3/4" = 1'-0"



**KEYED NOTES**

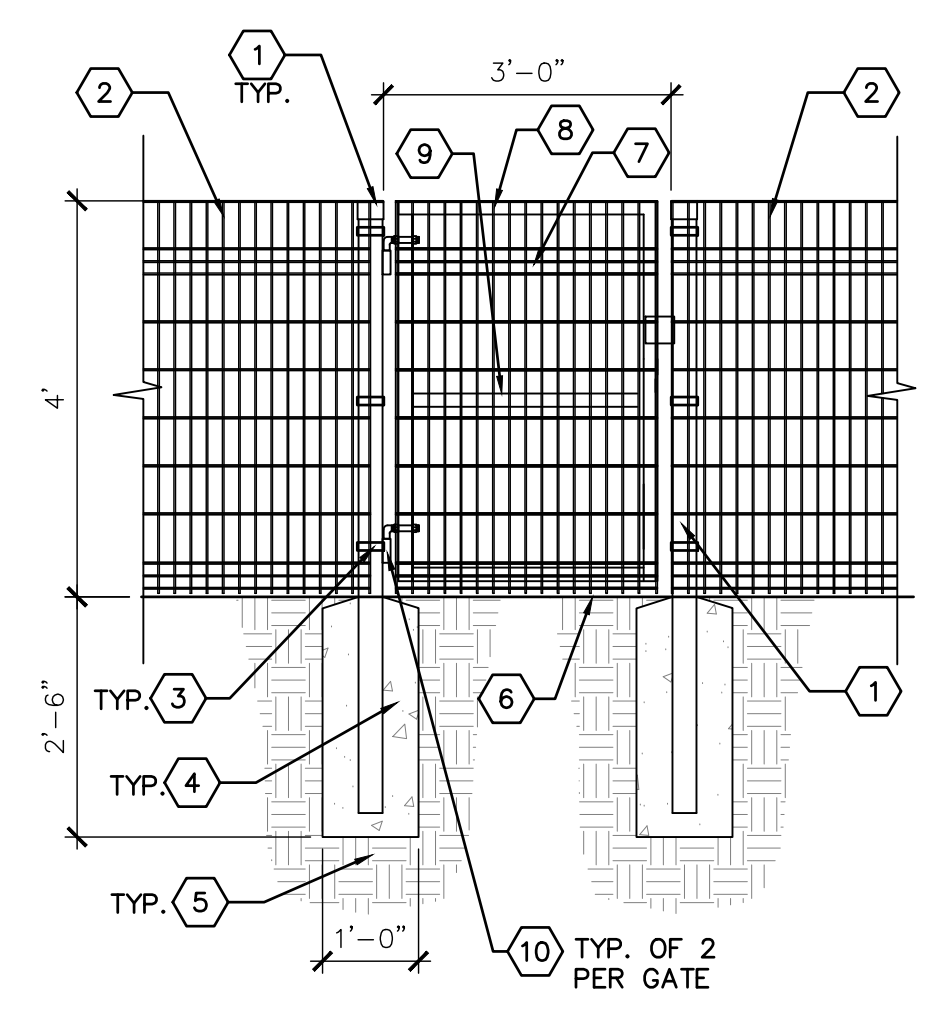
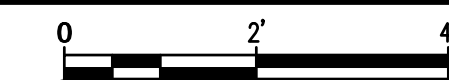
1. 3" X 3" X 11 GAUGE STEEL POST, SPACED AT 8'-0" O.C. TOPS OF POSTS SHALL HAVE POST CAPS.
2. 4' HIGH VERTICAL DESIGNMASTER CLASSIC FENCE PANEL AS AVAILABLE FROM VALLEY FENCE (505-877-1155) OR APPROVED EQUAL.
3. STANDARD BRACKET. FENCE PANELS SHALL BE ATTACHED TO POSTS WITH STANDARD BRACKETS. SEE GENERAL NOTE B.
4. 3000 PSI CONCRETE FOOTING.
5. SUBGRADE COMPACTED TO 95%.
6. FINISH GRADE, MATERIAL VARIES - SEE CONSTRUCTION PLAN.

**GENERAL NOTES**

- A. THE DESIGNMASTER FENCE SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
- B. THE STANDARD BRACKET SHALL BE INSTALLED SO THE BOLT SIDE IS ON THE OUTSIDE OF THE PATIO.
- C. POSTS AT GATES SHALL BE 3" X 3" X 11 GAUGE STEEL POSTS. SEE DETAIL A1/LS501.
- D. POSTS, RAILS, AND FENCE PANEL POWDER COATING COLOR SHALL BROWN 7006.

**D1 4' HT. DESIGNMASTER CLASSIC FENCE**

1/2" = 1'-0"



**KEYED NOTES**

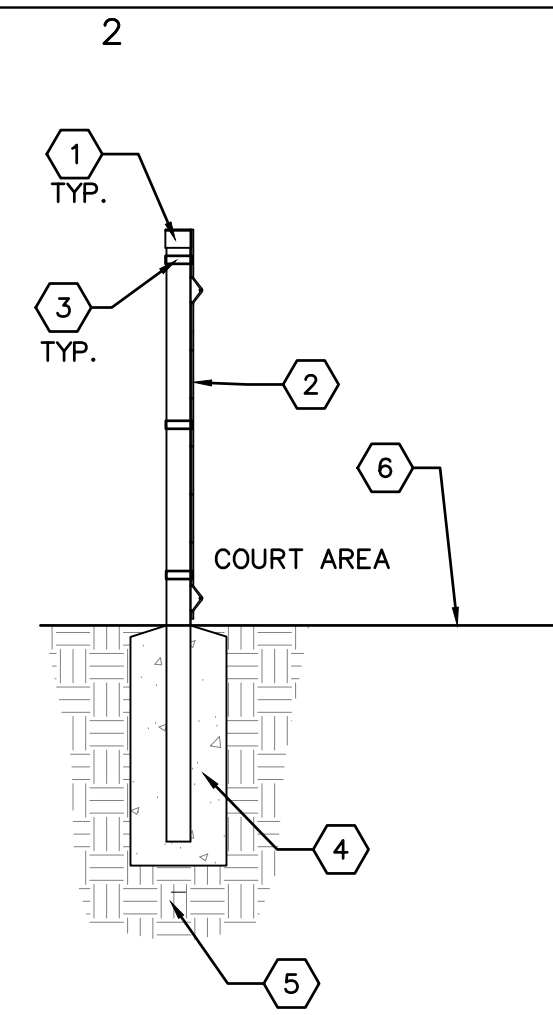
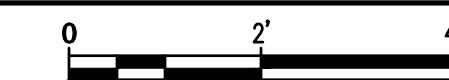
1. 3" X 3" X 11 GAUGE STEEL GATE POST. TOPS OF POSTS SHALL HAVE POST CAPS.
2. 4' HIGH DESIGNMASTER CLASSIC FENCE - SEE DETAIL D1/LS501.
3. STANDARD 3" X 3" BRACKET FOR 3" GATE POST. FENCE PANELS SHALL BE ATTACHED TO GATE POSTS WITH STANDARD 3" BRACKETS. SEE GENERAL NOTE B.
4. 3000 PSI CONCRETE FOOTING.
5. SUBGRADE COMPACTED TO 95%.
6. FINISH GRADE - SEE PLAN.
7. 4' HT. DESIGNMASTER CLASSIC PANEL. THE PANEL SHALL BE CUT TO LENGTH AND WELDED TO GATE FRAME. SEE GENERAL NOTE A.
8. 2" X 2" X 3 GAUGE (1/4" WALL) SQUARE STEEL TUBE, FOR GATE FRAME. INSTALL CAPS OR WELD OPEN ENDS. SEE GENERAL NOTES E & F.
9. 2" X 2" X 3 GAUGE (1/4" WALL) SQUARE STEEL TUBE CENTER RAIL FOR GATE. SEE GENERAL NOTES E & F.
10. 3/4" STEEL J-BOLT ADJUSTABLE BARREL HINGE TO ALLOW THE GATE TO OPEN IN BOTH DIRECTIONS.

**GENERAL NOTES**

- A. TOUCH UP PAINT ON PANEL PER THE MANUFACTURER'S SPECIFICATIONS.
- B. THE STANDARD BRACKET SHALL BE INSTALLED SO THE BOLT SIDE IS ON THE OUTSIDE OF THE COURT AREA.
- C. POSTS AT GATES SHALL BE 3" X 3" X 11 GAUGE STEEL POSTS.
- D. POSTS, GATE, & FENCE PANELS POWDER COATING COLOR SHALL BE BROWN 7006.
- E. ALL WELDS SHALL BE GROUND SMOOTH.
- F. GATE SHALL BE CONSTRUCTED WITH ALL JOINTS WELDED. THE GATE SHALL ALSO BE CONSTRUCTED TO OPEN 180 DEGREES IN BOTH DIRECTIONS AND LATCH TO ADJACENT FENCE.

**A1 4' HT. X 3' WIDE SINGLE GATE**

1/2" = 1'-0"



**KEYED NOTES**

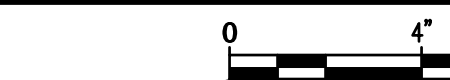
1. 3" X 3" X 11 GAUGE STEEL POST, SPACED AT 8'-0" O.C. TOPS OF POSTS SHALL HAVE POST CAPS.
2. 4' HIGH VERTICAL DESIGNMASTER CLASSIC FENCE PANEL AS AVAILABLE FROM VALLEY FENCE (505-877-1155) OR APPROVED EQUAL.
3. STANDARD BRACKET. FENCE PANELS SHALL BE ATTACHED TO POSTS WITH STANDARD BRACKETS. SEE GENERAL NOTE B.
4. 3000 PSI CONCRETE FOOTING.
5. SUBGRADE COMPACTED TO 95%.
6. FINISH GRADE, MATERIAL VARIES - SEE CONSTRUCTION PLAN.

**GENERAL NOTES**

- A. THE DESIGNMASTER FENCE SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
- B. THE STANDARD BRACKET SHALL BE INSTALLED SO THE BOLT SIDE IS ON THE OUTSIDE OF THE PATIO.
- C. POSTS AT GATES SHALL BE 3" X 3" X 11 GAUGE STEEL POSTS. SEE DETAIL A1/LS501.
- D. POSTS, RAILS, AND FENCE PANEL POWDER COATING COLOR SHALL BROWN 7006.

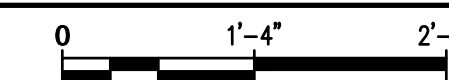
**D1 4' HT. DESIGNMASTER CLASSIC FENCE**

1/2" = 1'-0"

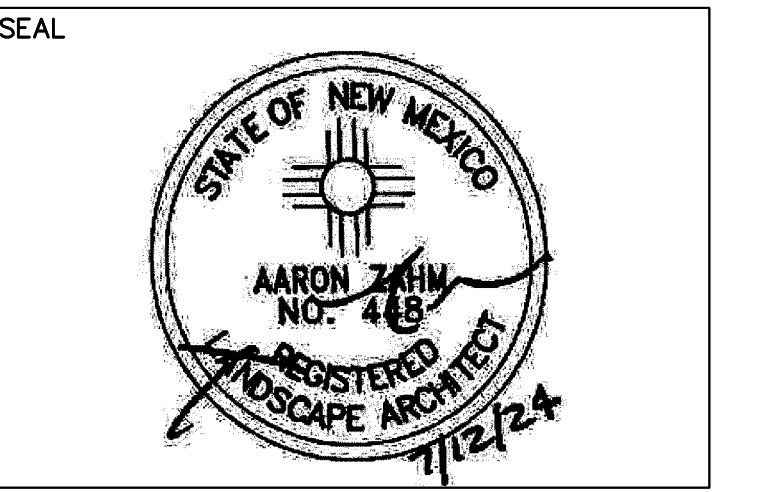


**A3 SYNTHETIC TURF**

3/4" = 1'-0"



CONSULTANTS



PROJECT NAME AND ADDRESS

**KAIROS POWER  
EMPLOYEE PATIO**  
5201 HAWKING DR  
ALBUQUERQUE NM 87106

DATE: JULY 12, 2024  
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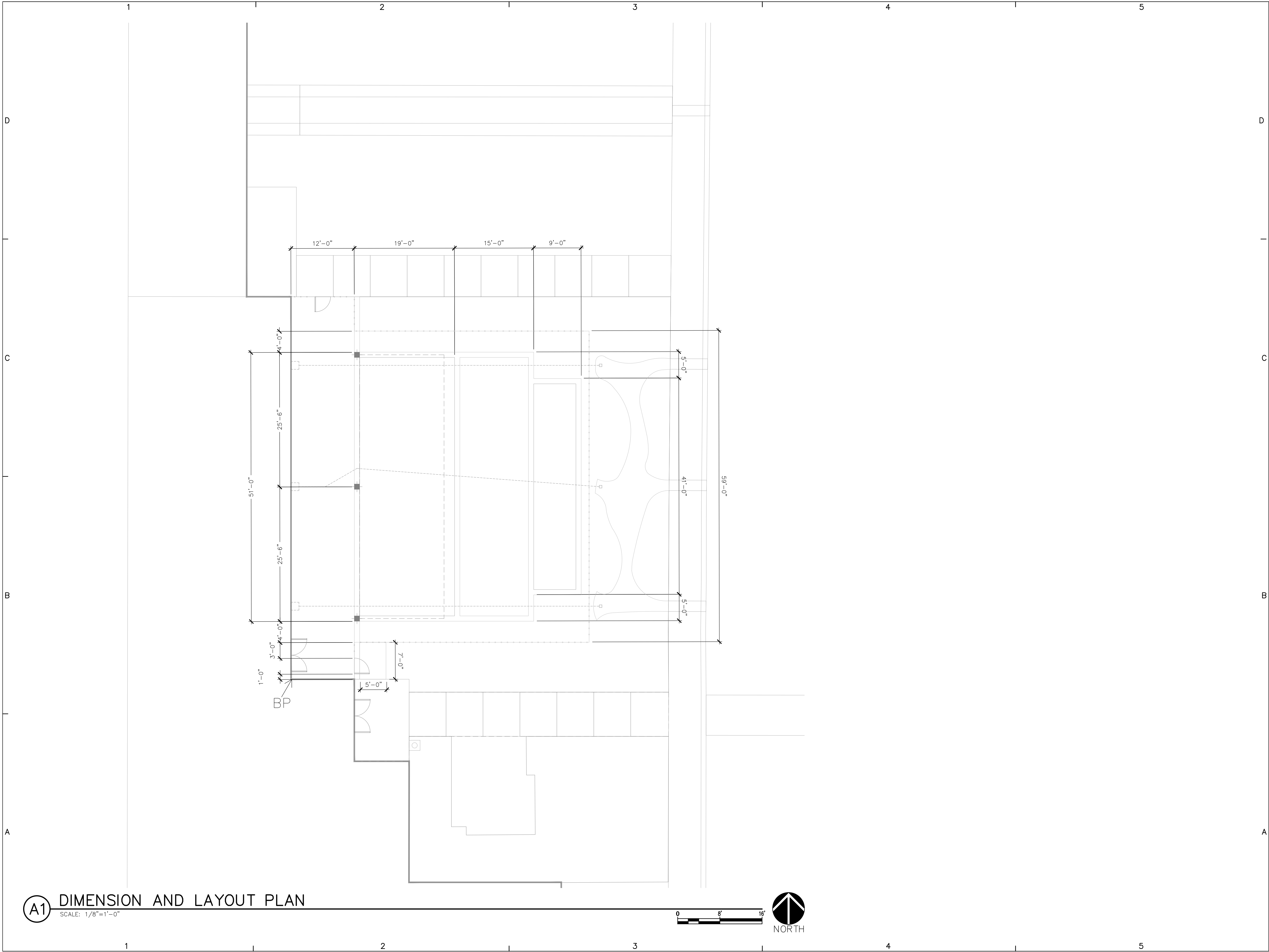
MRWM PROJECT NO 24025  
DESIGNED BY LJ CHECKED BY AZ  
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SHEET TITLE

**DIMENSION AND  
LAYOUT PLAN**

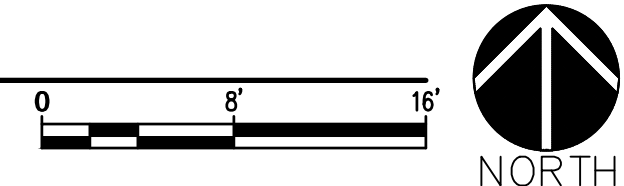
SHEET NUMBER

**LK101**



**A1** DIMENSION AND LAYOUT PLAN

SCALE: 1/8"=1'-0"





CONSULTANTS

SEAL



PROJECT NAME AND ADDRESS

**KAIROS POWER  
EMPLOYEE PATIO**  
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MRWM PROJECT NO 24025

DESIGNED BY LJ CHECKED BY AZ

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SHEET TITLE

**PLANTING PLAN**

SHEET NUMBER

**LP101**

**GENERAL PLANTING NOTES**

- | CODE  | DESCRIPTION   |
|-------|---|
| GP-01 | IN CASE OF DISCREPANCY IN PLANT QUANTITIES SHOWN ON THE PLANT LEGEND AND THOSE SHOWN ON THE PLANTING PLAN, THE QUANTITIES SHOWN ON THE PLAN SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID AND INSTALLATION. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY DISCREPANCIES IN QUANTITIES BETWEEN THE PLANTING PLAN AND THE PLANT LIST.                      |
| GP-02 | IF THERE IS A DISCREPANCY IN THE FIELD OR NURSERY BETWEEN THE CONTAINER SIZE CALLED OUT UNDER "REMARKS" AND HEIGHT & SPREAD CALLED OUT UNDER "INSTALLED SIZE", THE SPECIFIED PLANT MUST MEET HEIGHT & SPREAD REQUIREMENTS SPECIFIED UNDER "INSTALLED SIZE", EVEN IF A LARGER CONTAINER SIZE IS REQUIRED TO MEET THESE SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER. |
| GP-03 | FILTER FABRIC SHALL BE MIN. 4 OZ. NON-WOVEN NEEDLE-PUNCHED POLYPROPYLENE (MIRAFI OR EQUIVALENT). OVERLAP ENDS 3" AND TURN DOWN EDGES 6".  |
| GP-04 | THE TOP OF MULCH SHALL BE 1" BELOW TOP OF ADJACENT CONCRETE SURFACES.   |
| GP-05 | THE CONTRACTOR SHALL PRUNE LOWER BRANCHES OF DECIDUOUS TREES AS DIRECTED BY LANDSCAPE ARCHITECT IN THE FIELD.   |
| GP-08 | THE CONTRACTOR SHALL INSTALL TREES PER DETAIL A5/LP501.   |
| GP-09 | THE CONTRACTOR SHALL INSTALL SHRUBS PER DETAIL C5/LP501.  |
| GP-10 | THE CONTRACTOR SHALL INSTALL VINES PER DETAIL C3/LP501.   |

**EXISTING CONDITIONS**

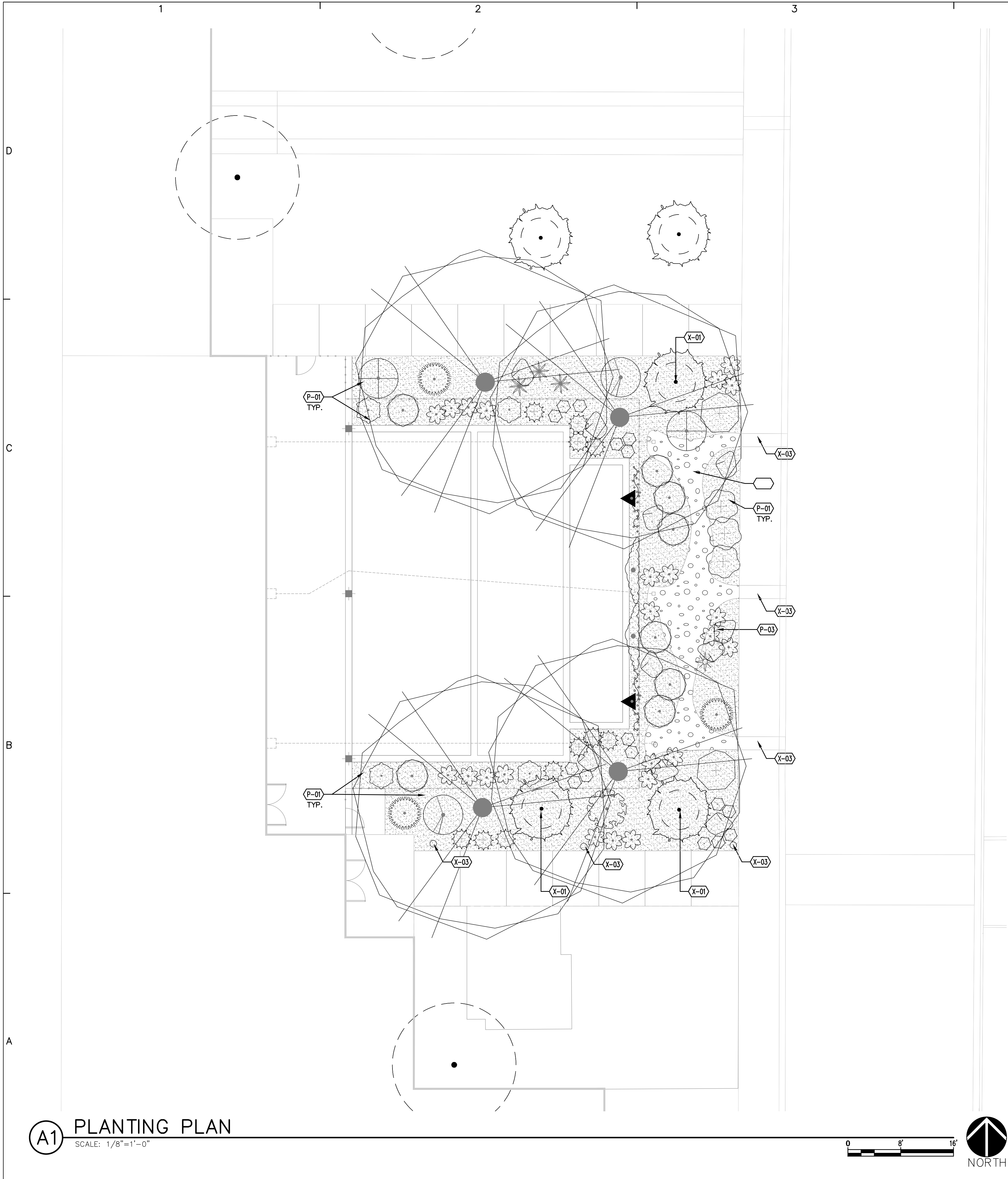
- | CODE | DESCRIPTION                          |
|------|--------------------------------------|
| X-01 | EXISTING TREE TO REMAIN.             |
| X-02 | EXISTING SIDEWALK CULVERT TO REMAIN. |
| X-03 | EXISTING BOLLARD LIGHT TO REMAIN.    |

**PLANTING SCHEDULE**

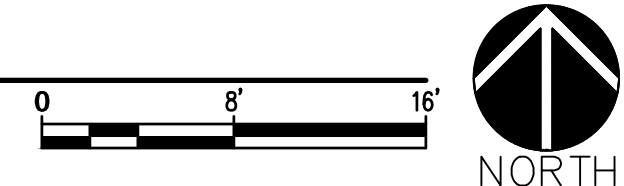
- | CODE   | DESCRIPTION   |
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| P-01   | ROCK MULCH SHALL BE A BLEND OF 60% FINES, 40% 7/16" 'SANTA FE BROWN', AS AVAILABLE FROM BUILDLOGY (505-344-6626), AT 3" DEPTH, OVER FILTER FABRIC.  |
| P-02   | 2"-4" COBBLE OVER WOOD MULCH. RIP RAP MULCH SHALL BE 2"-4" 'DESERT BRONZE', AS AVAILABLE FROM BUILDLOGY (505-344-6626), INSTALLED AT 4" DEPTH WITHOUT FILTER FABRIC. WOOD MULCH SHALL BE "NATIVE MULCH" AS AVAILABLE FROM SOLUTIONS (505-877-0220), OR APPROVED EQUAL, INSTALL AT 3" DEPTH. |
| SYMBOL | DESCRIPTION   |
| P-03   | BOULDER SHALL BE A 12-18 C.F. INSTALL PER DETAIL D5/LP501.  |

**PLANT SCHEDULE** SEE SHEET LP501 FOR COMPLETE PLANT SCHEDULE

| SYMBOL                | CODE | COMMON NAME                | BOTANICAL NAME                             |
|-----------------------|------|----------------------------|--|
| <b>TREES</b>          |      |                            |  |
|                       | TE   | TRIUMPH ELM                | ULMUS X 'MORTON GLOSSY' TM                 |
| <b>SHRUBS</b>         |      |                            |  |
|                       | FP   | APACHE PLUME               | FALLUGIA PARADOXA                          |
|                       | BC   | BEARBERRY COTONEASTER      | COTONEASTER DAMMERI                        |
|                       | EN   | CHAMISA                    | ERICAMERIA NAUSEOSA                        |
|                       | CM   | FERNBUSH                   | CHAMAEBATIARIA MILLEFOLIUM                 |
|                       | GLS  | GRO-LOW SUMAC              | RHUS AROMATICA 'GRO-LOW'                   |
|                       | RW   | WOODS ROSE                 | ROSA WOODSII                               |
| <b>VINES</b>          |      |                            |  |
|                       | BC2  | CROSS VINE                 | BIGNONIA CAPREOLATA                        |
|                       | VC   | ROGER'S RED GRAPE          | VITIS CALIFORNICA X VINIFERA 'ROGER'S RED' |
| <b>DESERT ACCENTS</b> |      |                            |  |
|                       | YB   | BANANA YUCCA               | YUCCA BACCATA                              |
|                       | BG   | BEAR GRASS                 | NOLINA TEXANA                              |
|                       | BA   | BLONDE AMBITION BLUE GRAMA | BOUTELOUA GRACILIS 'BLONDE AMBITION'       |
|                       | HP   | RED YUCCA                  | HESPERALOE PARVIFLORA                      |
| <b>GROUNDCOVERS</b>   |      |                            |  |
|                       | CAT  | CATMINT                    | NEPETA FAASSENII                           |
|                       | TC   | CREEPING GERMANDER         | TEUCRIUM COSSONII                          |
|                       | MR   | CREEPING MAHONIA           | MAHONIA REPENS                             |



**A1 PLANTING PLAN**  
SCALE: 1/8"=1'-0"



CONSULTANTS

SEAL



PROJECT NAME AND ADDRESS

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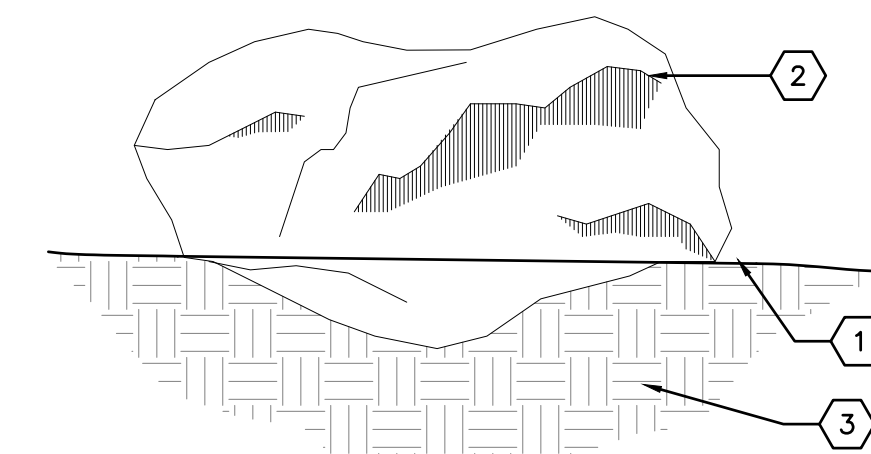
MRWM PROJECT NO 24025  
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SHEET TITLE

**PLANTING DETAILS**

SHEET NUMBER

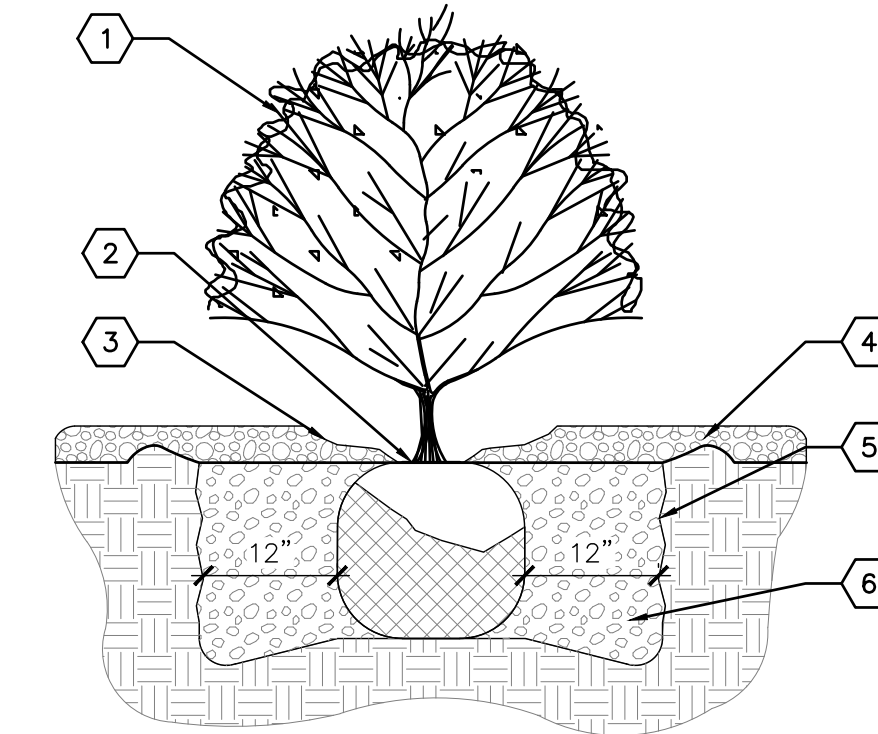
**LP501**



**KEYED NOTES**

1. FINISH GRADE (MATERIAL VARIES) – BOULDER SHALL BE BURIED TO MIN 8" DEPTH BELOW FINISH GRADE.
2. BOULDER, MOSSROCK OR APPROVED ALTERNATE MATERIAL AS LOCALLY AVAILABLE.
3. SUBGRADE COMPACTED TO 95%.

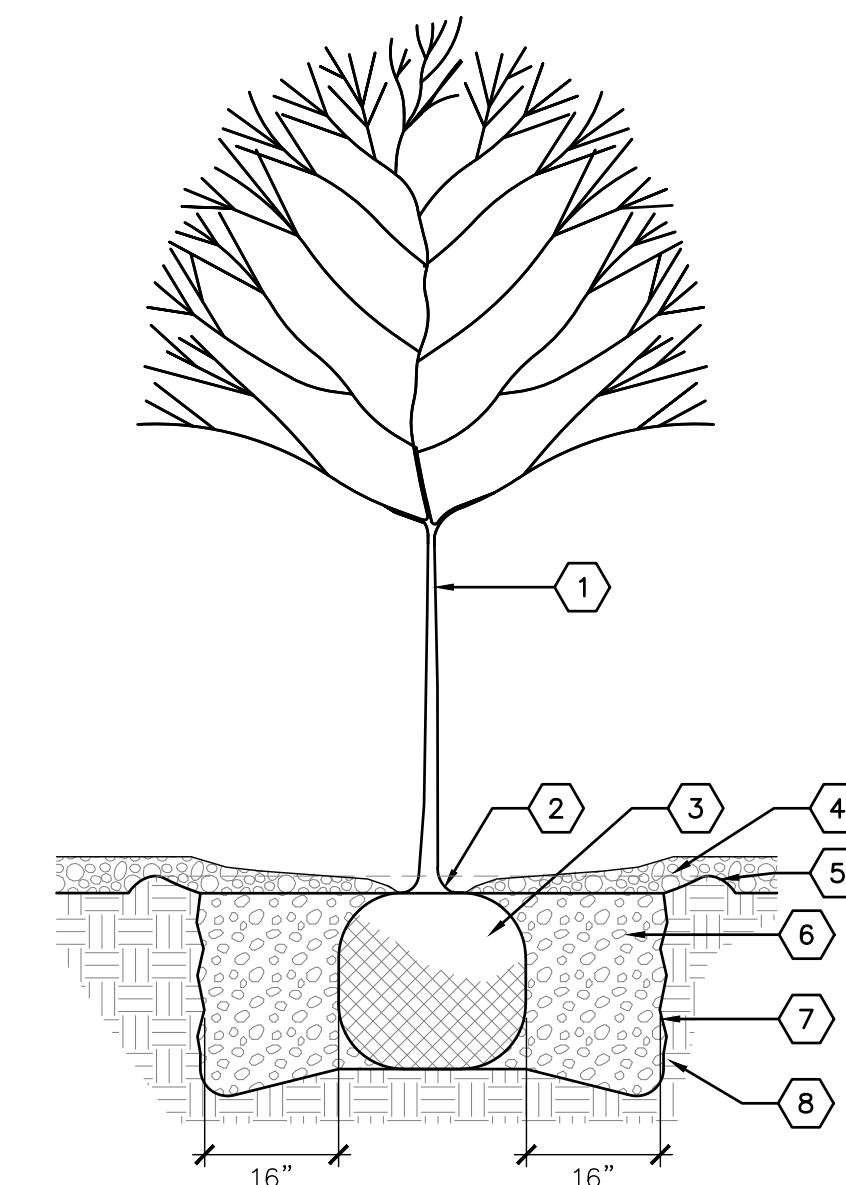
**D5 ACCENT BOULDER**  
NOT TO SCALE



**KEYED NOTES**

1. SHRUB – SEE PLAN FOR SPECIES AND LOCATIONS.
2. PLANT AT SAME DEPTH MAINTAINED AT NURSERY.
3. FEATHER MULCH TO A 2" DEPTH ON TOP OF ROOT BALL AND HOLD BACK 2" FROM SHRUB STEM(S).
4. GRAVEL MULCH
5. SCARIFY EDGE OF PLANTING HOLE, CONTINUOUS ALL SIDES.
6. BACKFILL AND SOIL AMENDMENTS – SEE SPECIFICATIONS.

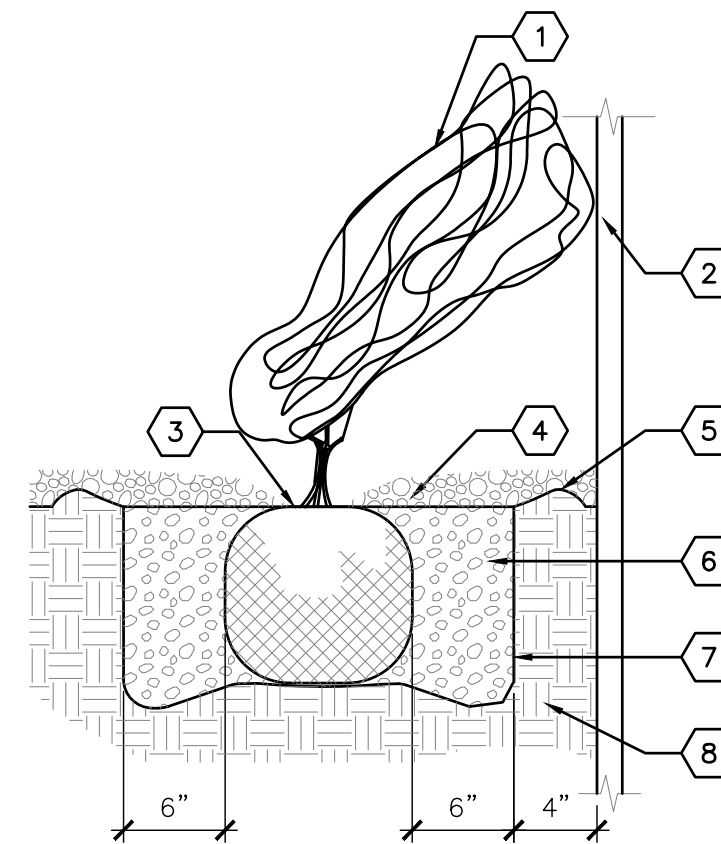
**C5 SHRUB PLANTING**  
NOT TO SCALE



**KEYED NOTES**

1. TREE – SEE PLAN FOR SPECIES AND LOCATIONS.
2. ROOT FLARE SHALL BE 2"-3" ABOVE GRADE. REMOVE EXISTING SOIL FROM NURSERY TO EXPOSE ROOT FLARE.
3. PLACE TREE IN HOLE VERTICALLY. REMOVE WIRE BASKET, WOOD BOX, PLASTIC, TWINE AND/OR ROPE, AND BURLAP PRIOR TO BACKFILLING.
4. MULCH – SEE PLAN. AVOID MULCH INSTALLATION 4"-6" OF DISTANCE FROM TREE TRUNK.
5. EARTHEN BERM, 6" HEIGHT
6. THOROUGHLY MIX BACKFILL AND SOIL AMENDMENTS PRIOR TO INSTALLATION – SEE SPECIFICATIONS.
7. SCARIFY EDGE OF PLANTING HOLE, CONTINUOUS ALL SIDES.
8. UNDISTURBED SUBGRADE

**A5 TREE PLANTING**  
NOT TO SCALE



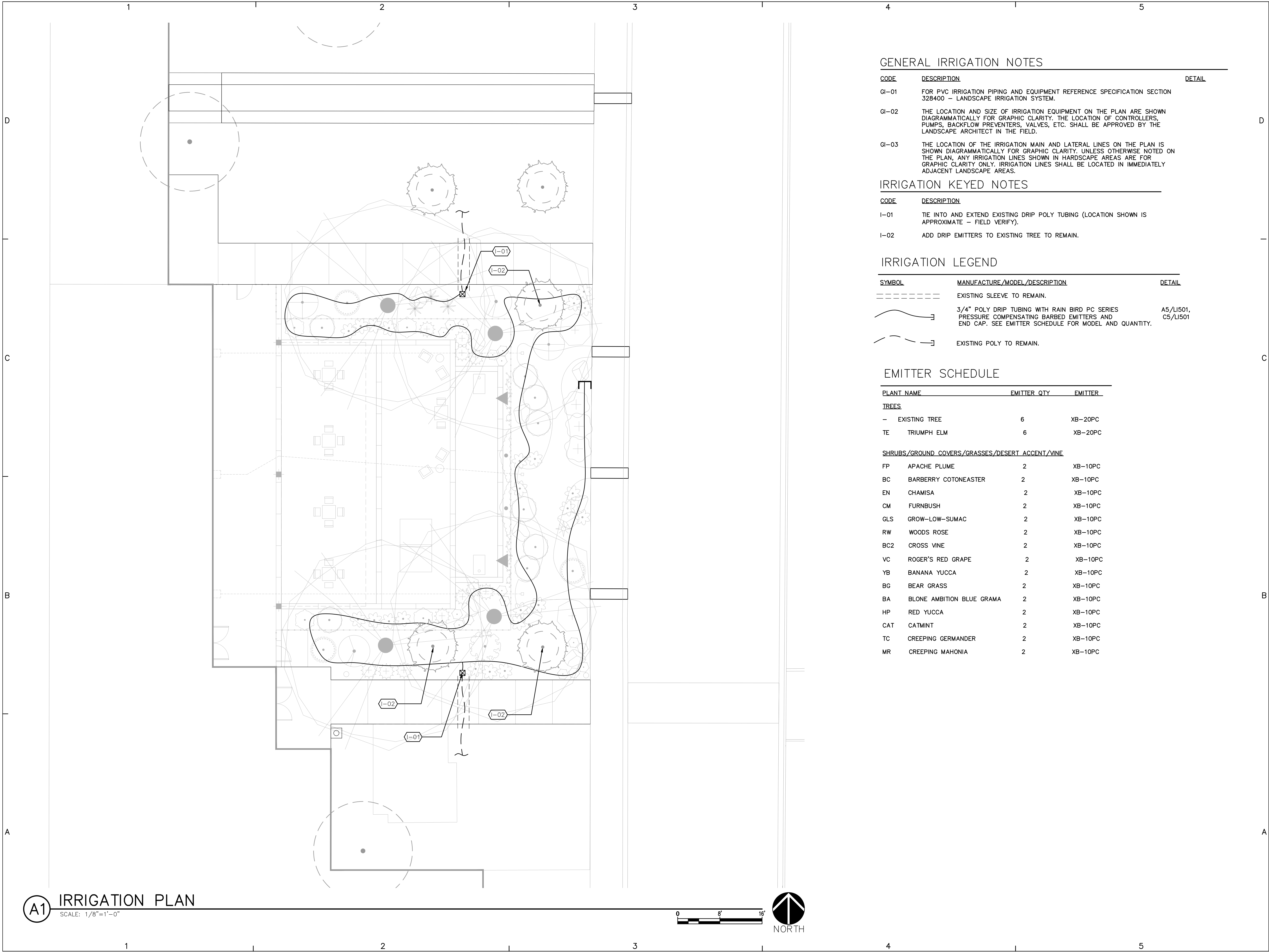
**KEYED NOTES**

1. VINE – SEE PLAN FOR SPECIES AND LOCATION.
2. VERTICAL STRUCTURE – SEE PLAN.
3. PLANT AT SAME DEPTH AS MAINTAINED AT NURSERY.
4. MULCH – SEE PLAN. HOLD BACK 2" FROM VINE STEMS.
5. EARTHEN BERM, 6" HEIGHT
6. BACKFILL AND SOIL AMENDMENTS – SEE SPECIFICATIONS. MIX THOROUGHLY PRIOR TO INSTALLATION.
7. SCARIFY EDGE OF PLANTING HOLE, CONTINUOUS ALL SIDES.
8. UNDISTURBED SUBGRADE

**C3 VINE PLANTING**  
NOT TO SCALE

**PLANT SCHEDULE**

| SYMBOL                | CODE | QTY | COMMON NAME                | BOTANICAL NAME                             | REMARKS | HT.  | SPD.  | INSTALLED SIZE       |
|-----------------------|------|-----|----------------------------|--|---------|------|-------|----------------------|
| <b>TREES</b>          |      |     |                            |  |         |      |       |                      |
|                       | TE   | 4   | TRIUMPH ELM                | ULMUS X 'MORTON GLOSSY' TM                 | B&B     | 50'  | 40'   | 2" CAL., 10'-12' HT. |
| <b>SHRUBS</b>         |      |     |                            |  |         |      |       |                      |
|                       | FP   | 2   | APACHE PLUME               | FALLUGIA PARADOXA                          | 5 GAL.  | 6'   | 6'    | MIN. 18" SPD.        |
|                       | BC   | 3   | BEARBERRY COTONEASTER      | COTONEASTER DAMMERI                        | 5 GAL.  | 1'   | 5'    | MIN. 12" SPD.        |
|                       | EN   | 2   | CHAMISA                    | ERICAMERIA NAUSEOSA                        | 5 GAL.  | 5'   | 6'    | MIN. 8" HT.          |
|                       | CM   | 2   | FERNBUSH                   | CHAMAEBATIARIA MILLEFOLIUM                 | 5 GAL.  | 4-6' | 4-6'  | MIN. 8" HT.          |
|                       | GLS  | 3   | GRO-LOW SUMAC              | RHUS AROMATICA 'GRO-LOW'                   | 5 GAL.  | 3'   | 5'    | MIN. 18" SPD.        |
|                       | RW   | 1   | WOODS ROSE                 | ROSA WOODSII                               | 5 GAL.  | 6'   | 6'    | MIN. 18" SPD.        |
| <b>VINES</b>          |      |     |                            |  |         |      |       |                      |
|                       | BC2  | 2   | CROSS VINE                 | BIGNONIA CAPREOLATA                        | 5 GAL.  | 20'  | 20'   | MIN. 18" HT.         |
|                       | VC   | 2   | ROGER'S RED GRAPE          | VITIS CALIFORNICA X VINIFERA 'ROGER'S RED' | 5 GAL.  | 20'  | 20'   | MIN. 18" HT.         |
| <b>DESERT ACCENTS</b> |      |     |                            |  |         |      |       |                      |
|                       | YB   | 1   | BANANA YUCCA               | YUCCA BACCATA                              | 5 GAL.  | 3'   | 3'    | MIN. 12" HT.         |
|                       | BG   | 8   | BEAR GRASS                 | NOLINA TEXANA                              | 5 GAL.  | 4'   | 5'    | MIN. 12" HT.         |
|                       | BA   | 23  | BLONDE AMBITION BLUE GRAMA | BOUTELOUA GRACILIS 'BLONDE AMBITION'       | 3 GAL.  | 2'   | 3'    | MIN. 8" HT.          |
|                       | HP   | 3   | RED YUCCA                  | HESPERALOE PARVIFLORA                      | 5 GAL.  | 3'   | 3'    | MIN. 12" HT.         |
| <b>GROUNDCOVERS</b>   |      |     |                            |  |         |      |       |                      |
|                       | CAT  | 11  | CATMINT                    | NEPETA FAASSENII                           | 1 GAL.  | 1'   | 3'    | MIN. 6" SPD.         |
|                       | TC   | 16  | CREEPING GERMANDER         | TEUCRIUM COSSONII                          | 1 GAL.  | 6"   | 1'-6" | MIN. 6" SPD.         |
|                       | MR   | 4   | CREEPING MAHONIA           | MAHONIA REPENS                             | 5 GAL.  | 1'   | 3'    | MIN. 18" SPD.        |



**GENERAL IRRIGATION NOTES**

| CODE  | DESCRIPTION   | DETAIL |
|-------|---|--------|
| GI-01 | FOR PVC IRRIGATION PIPING AND EQUIPMENT REFERENCE SPECIFICATION SECTION 328400 - LANDSCAPE IRRIGATION SYSTEM.   |        |
| GI-02 | THE LOCATION AND SIZE OF IRRIGATION EQUIPMENT ON THE PLAN ARE SHOWN DIAGRAMMATICALLY FOR GRAPHIC CLARITY. THE LOCATION OF CONTROLLERS, PUMPS, BACKFLOW PREVENTERS, VALVES, ETC. SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD.  |        |
| GI-03 | THE LOCATION OF THE IRRIGATION MAIN AND LATERAL LINES ON THE PLAN IS SHOWN DIAGRAMMATICALLY FOR GRAPHIC CLARITY. UNLESS OTHERWISE NOTED ON THE PLAN, ANY IRRIGATION LINES SHOWN IN HARDSCAPE AREAS ARE FOR GRAPHIC CLARITY ONLY. IRRIGATION LINES SHALL BE LOCATED IN IMMEDIATELY ADJACENT LANDSCAPE AREAS. |        |

**IRRIGATION KEYED NOTES**

| CODE | DESCRIPTION   |
|------|---|
| I-01 | TIE INTO AND EXTEND EXISTING DRIP POLY TUBING (LOCATION SHOWN IS APPROXIMATE - FIELD VERIFY). |
| I-02 | ADD DRIP EMITTERS TO EXISTING TREE TO REMAIN.   |

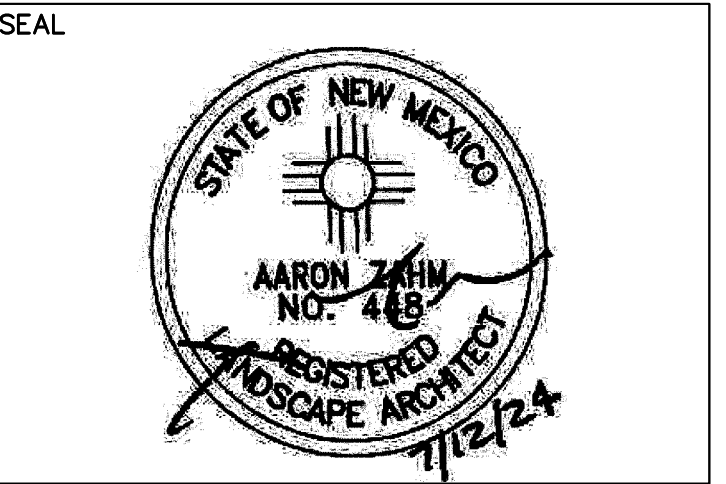
**IRRIGATION LEGEND**

| SYMBOL | MANUFACTURE/MODEL/DESCRIPTION  | DETAIL             |
|--------|--|--------------------|
| ---    | EXISTING SLEEVE TO REMAIN.   |                    |
| —      | 3/4" POLY DRIP TUBING WITH RAIN BIRD PC SERIES PRESSURE COMPENSATING BARBED EMITTERS AND END CAP. SEE EMITTER SCHEDULE FOR MODEL AND QUANTITY. | A5/LI501, C5/LI501 |
| - - -  | EXISTING POLY TO REMAIN.   |                    |

**EMITTER SCHEDULE**

| PLANT NAME   | EMITTER QTY | EMITTER |
|--|-------------|---------|
| <b>TREES</b>   |             |         |
| - EXISTING TREE  | 6           | XB-20PC |
| TE TRIUMPH ELM   | 6           | XB-20PC |
| <b>SHRUBS/GROUND COVERS/GRASSES/DESERT ACCENT/VINE</b> |             |         |
| FP APACHE PLUME  | 2           | XB-10PC |
| BC BARBERRY COTONEASTER                                | 2           | XB-10PC |
| EN CHAMISA   | 2           | XB-10PC |
| CM FURNBUSH  | 2           | XB-10PC |
| GLS GROW-LOW-SUMAC                                     | 2           | XB-10PC |
| RW WOODS ROSE  | 2           | XB-10PC |
| BC2 CROSS VINE   | 2           | XB-10PC |
| VC ROGER'S RED GRAPE                                   | 2           | XB-10PC |
| YB BANANA YUCCA  | 2           | XB-10PC |
| BG BEAR GRASS  | 2           | XB-10PC |
| BA BLONE AMBITION BLUE GRAMA                           | 2           | XB-10PC |
| HP RED YUCCA   | 2           | XB-10PC |
| CAT CATMINT  | 2           | XB-10PC |
| TC CREEPING GERMANDER                                  | 2           | XB-10PC |
| MR CREEPING MAHONIA                                    | 2           | XB-10PC |

CONSULTANTS



PROJECT NAME AND ADDRESS

**KAIROS POWER  
EMPLOYEE PATIO**  
5201 HAWKING DR  
ALBUQUERQUE NM 87106

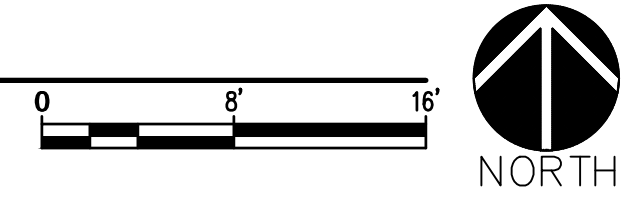
DATE SUBMITTAL: JULY 12, 2024  
100% CONSTRUCTION DOCUMENTS

| REVISIONS |      |             |
|-----------|------|-------------|
| NO.       | DATE | DESCRIPTION |
|           |      |             |
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MRWM PROJECT NO 24025  
DESIGNED BY LJ CHECKED BY AZ  
DRAWN BY FB

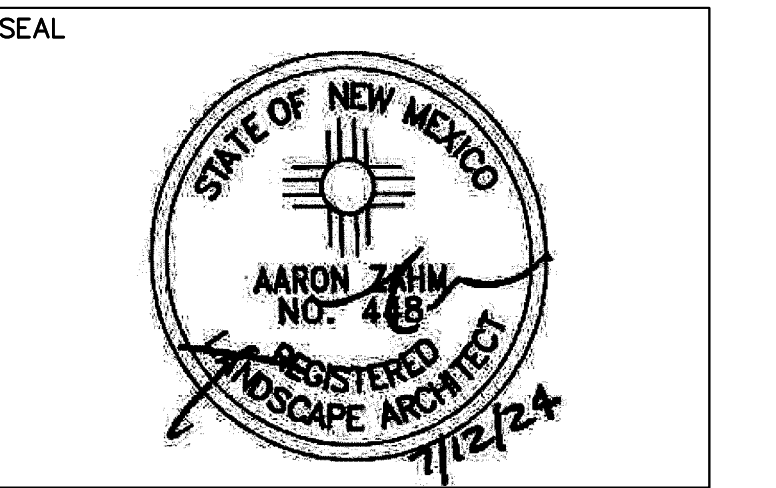
SHEET TITLE  
**IRRIGATION PLAN**  
SHEET NUMBER  
**LI101**

**A1** IRRIGATION PLAN  
SCALE: 1/8"=1'-0"





CONSULTANTS



PROJECT NAME AND ADDRESS

**KAIROS POWER  
EMPLOYEE PATIO**  
5201 HAWKING DR  
ALBUQUERQUE NM 87106

DATE JULY 12, 2024  
SUBMITTAL  
100%  
CONSTRUCTION DOCUMENTS

REVISIONS

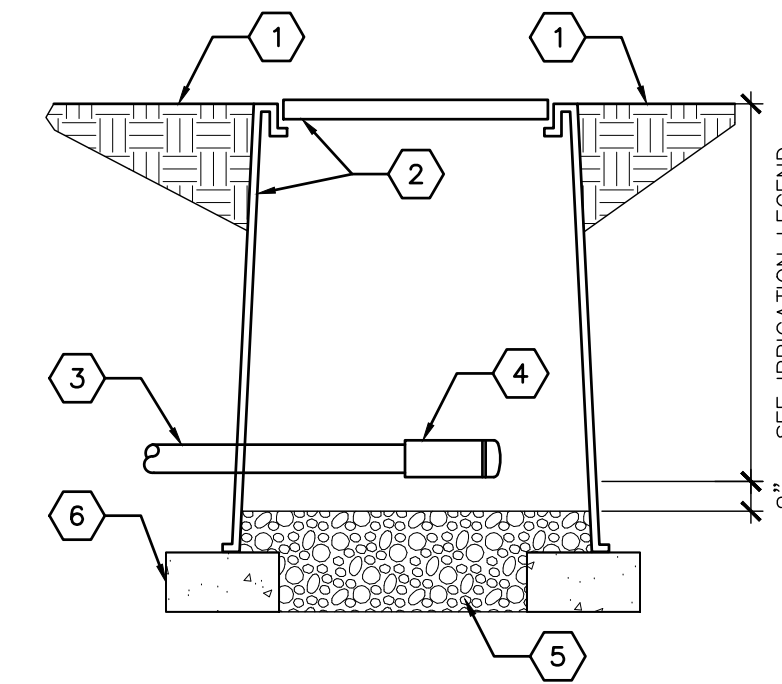
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MRWM PROJECT NO 24025  
DESIGNED BY LJ CHECKED BY AZ  
DRAWN BY CE

SHEET TITLE

**IRRIGATION DETAILS**

SHEET NUMBER  
**LI501**

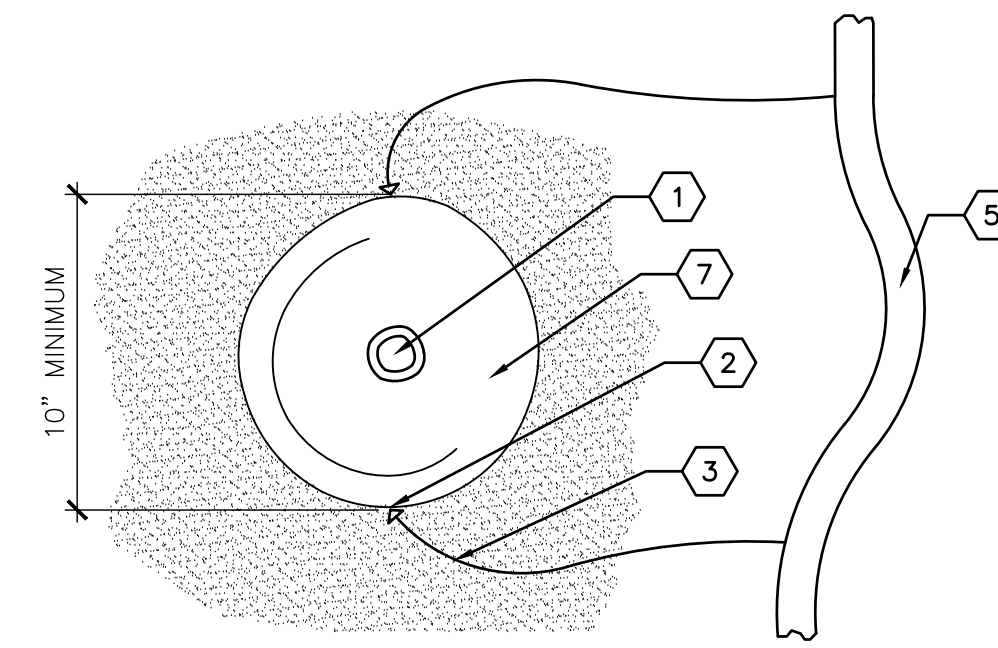


KEYED NOTES

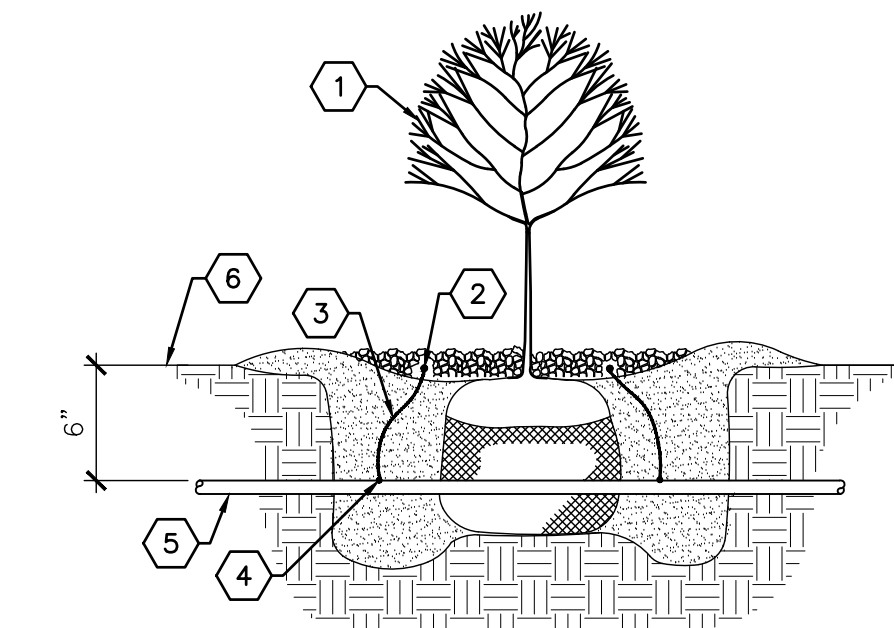
1. FINISH GRADE.
2. APPLIED ENGINEERING SERIES 610, 6" ROUND VALVE BOX. (COLOR: TAN)
3. 1/2" POLYETHYLENE DRIP TUBING.
4. 1/2" RAIN BIRD EASY FIT COMPRESSION COUPLER WITH REMOVABLE FLUSH CAP.
5. 3/4" TO 1" DIAMETER CRUSHED GRAVEL, 6" DEPTH. GRAVEL SHALL BE FREE OF DIRT AND FINES.
6. SOLID CMU BLOCK (2 EACH).

**C5** DRIP LINE FLUSH CAP

NOT TO SCALE



PLAN



SECTION

KEYED NOTES

1. TREE OR SHRUB PLANTING.
2. DRIP EMITTER (SEE LEGEND).
3. 1/4" DRILINE.
4. TRANSFER BARB.
5. 1/2" POLYETHYLENE DRIP TUBING.
6. FINISH GRADE.
7. PLANT ROOTBALL.

GENERAL NOTES

- INSTALL EMITTERS ON OPPOSING SIDES OF ROOTBALL.
- EMITTERS ARE TO BE INSTALLED TO CLEAR TOP OF FINISH GRADE BY A MINIMUM OF 1" AND A MAXIMUM OF 2".
- FLUSH ALL LINES THOROUGHLY, INCLUDING 1/4" TUBING, PRIOR TO EMITTER INSTALLATION.
- IF PLANTING ON A 4:1 SLOPE OR STEEPER, INSTALL ALL EMITTERS ON UPHILL SIDE OF ROOTBALL.
- REFER TO IRRIGATION LEGEND & EMITTER SCHEDULE FOR EMITTER TYPE AND QUANTITY.

**A5** DRIP EMITTER PLACEMENT

NOT TO SCALE

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

February 13, 2024

Ronald Bohannon, P.E.  
Tierra West, LLC  
5571 Midway Park Place NE  
Albuquerque, NM, 87109

**RE: Mesa del Sol Innovation Park Ponding  
Grading & Drainage Plans  
Engineer's Stamp Date: 2/6/2024  
Hydrology File: Q16DA5000D**

Dear Mr. Bohannon:

Based upon the information provided in your submittal received 2/9/2024, this plan is approved for Grading Permit and for action by the DFT for Site Plan approval.

PO Box 1293

**PRIOR TO BUILDING PERMIT:**

Albuquerque

- Provide more detailed design as needed in order to obtain Hydrology's approval.

NM 87103

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, [jhughes@cabq.gov](mailto:jhughes@cabq.gov), 924-3420) 14 days prior to any earth disturbance.

[www.cabq.gov](http://www.cabq.gov)

If you have any questions, please contact me at 505-924-3695 or [tchen@cabq.gov](mailto:tchen@cabq.gov).

Sincerely,

Tiequan Chen, P.E.  
Principal Engineer, Hydrology  
Planning Department, Development Review Services



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

Project Title: \_\_\_\_\_ Hydrology File # \_\_\_\_\_

Legal Description: \_\_\_\_\_

City Address, UPC, OR Parcel: \_\_\_\_\_

Applicant/Agent: \_\_\_\_\_ Contact: \_\_\_\_\_

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Applicant/Owner: \_\_\_\_\_ Contact: \_\_\_\_\_

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

Email: \_\_\_\_\_

(Please note that a DFT SITE is one that needs Site Plan Approval & ADMIN SITE is one that does not need it.)

**TYPE OF DEVELOPMENT:** PLAT (#of lots) \_\_\_\_\_ RESIDENCE  
DFT SITE ADMIN SITE

RE-SUBMITTAL: YES NO

**DEPARTMENT:** TRANSPORTATION HYDROLOGY/DRAINAGE

**Check all that apply under Both the Type of Submittal and the Type of Approval Sought:**

### TYPE OF SUBMITTAL:

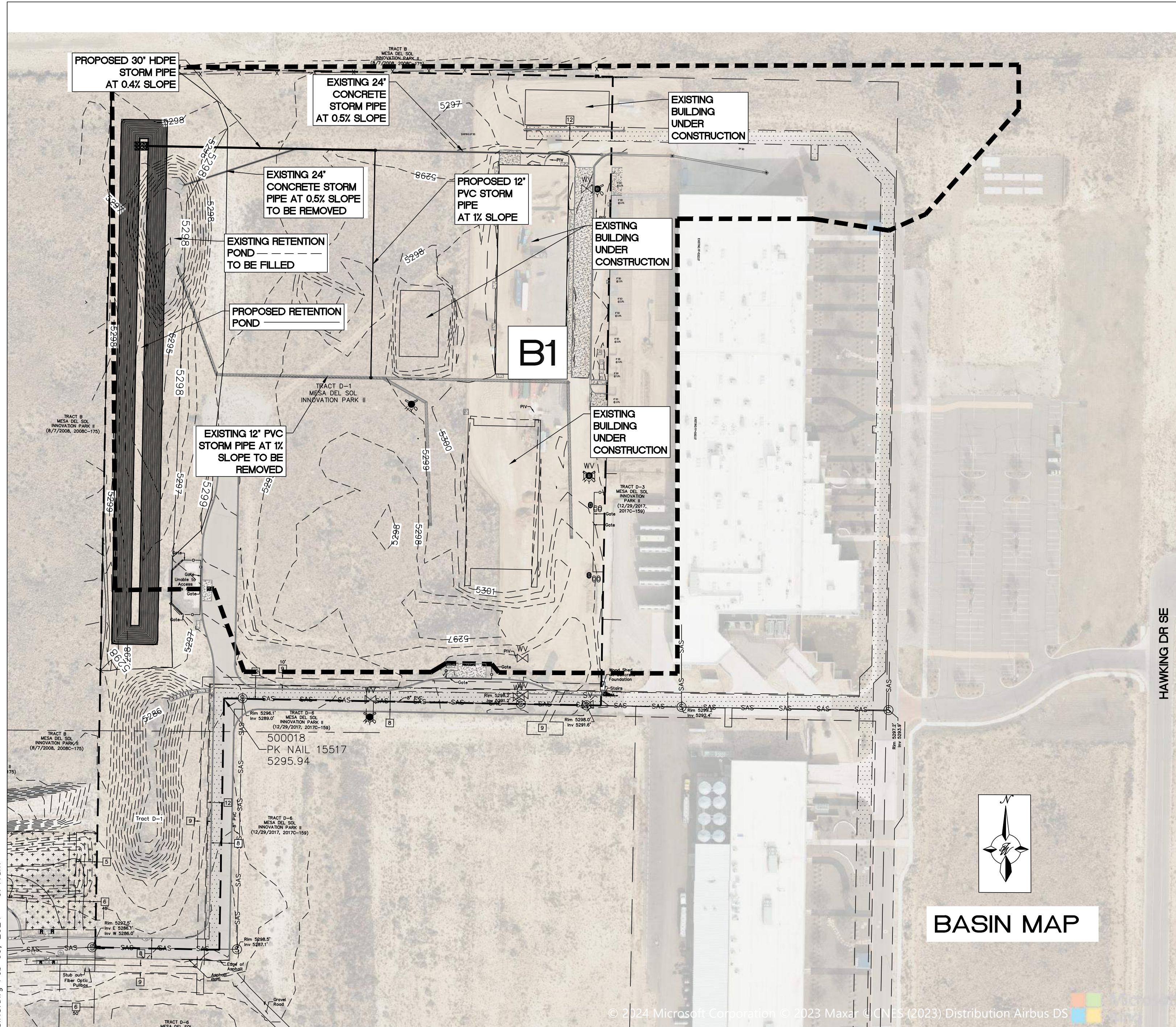
- ENGINEER/ARCHITECT CERTIFICATION
- PAD CERTIFICATION
- CONCEPTUAL G&D PLAN
- GRADING & DRAINAGE PLAN
- DRAINAGE REPORT
- DRAINAGE MASTER PLAN
- CLOMR/LOMR
- TRAFFIC CIRCULATION LAYOUT (TCL)  
ADMINISTRATIVE
- TRAFFIC CIRCULATION LAYOUT FOR DFT  
APPROVAL
- TRAFFIC IMPACT STUDY (TIS)
- STREET LIGHT LAYOUT
- OTHER (SPECIFY) \_\_\_\_\_

### TYPE OF APPROVAL SOUGHT:

- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY
- CONCEPTUAL TCL DFT APPROVAL
- PRELIMINARY PLAT APPROVAL
- FINAL PLAT APPROVAL
- SITE PLAN FOR BLDG PERMIT DFT  
APPROVAL
- SIA/RELEASE OF FINANCIAL GUARANTEE
- FOUNDATION PERMIT APPROVAL
- GRADING PERMIT APPROVAL
- SO-19 APPROVAL
- PAVING PERMIT APPROVAL
- GRADING PAD CERTIFICATION
- WORK ORDER APPROVAL
- CLOMR/LOMR
- OTHER (SPECIFY) \_\_\_\_\_

DATE SUBMITTED: \_\_\_\_\_





**LEGEND**

|             |                                    |
|-------------|------------------------------------|
| — x 5048.25 | SPOT ELEVATION                     |
| ---         | PROPERTY LINE                      |
| ---         | EASEMENT                           |
| ---         | BUILDING                           |
| ---         | SIDEWALK/CONCRETE                  |
| ---         | STORM DRAIN                        |
| ---         | CONTOUR MAJOR                      |
| ---         | CONTOUR MINOR                      |
| ---         | FLOW ARROW                         |
| ---         | EXISTING CONCRETE STORM DRAIN PIPE |
| ---         | EXISTING PVC STORM DRAIN PIPE      |
| ---         | EXISTING CONTOUR MAJOR             |
| ---         | EXISTING CONTOUR MINOR             |
| ---         | BASIN BOUNDARY LINE                |

**HYDROLOGY NOTES**

THE PROJECT SITE IS LOCATED ON THE EAST SIDE OF ALBUQUERQUE WITHIN THE MESA DEL SOL INNOVATION PARK. THE PROJECT BASIN AS OF 02/06/2024 HAS RECENTLY BEEN DEVELOPED AT ROUGHLY 50% WITH SEVERAL BUILDINGS AND INCLUDES PAVING, UTILITIES AND STORM DRAIN. STORM WATER WITHIN THE BASIN BOUNDARY CURRENTLY FLOWS TO A RETENTION POND LOCATED ON THE WEST SIDE OF THE BASIN BOUNDARY. THE INTEND OF THIS DRAINAGE REPORT IS TO IDENTIFY THE MINIMUM RETENTION POND SIZE REQUIRED TO CONTAIN THE 100 YR - 10 DAY STORM FOR FULLY DEVELOPED CONDITIONS.

THE SITE IS NOT LOCATED IN A 100YR FLOOD ZONE PER FEMA FIRM MAP

**DPM Weighted E Method**

Precipitation Zone 2  
 Area Vicinity  
 Site Name and Address: Mesa Del Sol Kairos Pond  
 TWLLC Date 2/6/2024

**Equations:**

Weighted E = Ea\*Aa + Eb\*Ab + Ec\*Ac + Ed  
 Volume = Weighted E + Total Area  
 Flow = Qa\*Aa + Qb\*Ab + Qc\*Ac + Qd\*Ad

**HYDROLOGY CALCULATION TABLES**

**EXISTING CONDITIONS**

| Basin ID     | Area (sf)         | Area (acres)  | Area (sq miles) | Basin Descriptions |               |               |               | 100-Year, 10-Day |                |              |              |              |              |                  |            |
|--------------|-------------------|---------------|-----------------|--------------------|---------------|---------------|---------------|------------------|----------------|--------------|--------------|--------------|--------------|------------------|------------|
|              |                   |               |                 | Treatment A %      | Treatment B % | Treatment C % | Treatment D % | Weighted E (in)  | Volume (ac-ft) | Flow cfs     | Volume (cf)  |              |              |                  |            |
| B1           | 783,028           | 17.98         | 0.02809         | 0%                 | 0.000         | 0%            | 0.000         | 60%              | 10.786         | 40%          | 7.190        | 1.550        | 3.119        | 64.10            | 135855.046 |
| <b>Total</b> | <b>783,028.00</b> | <b>17.976</b> | <b>0.02809</b>  | <b>0.000</b>       | <b>0.000</b>  | <b>0.000</b>  | <b>0.000</b>  | <b>0.000</b>     | <b>0.000</b>   | <b>0.000</b> | <b>7.190</b> | <b>3.119</b> | <b>64.10</b> | <b>135855.05</b> |            |

**FULLY DEVELOPED CONDITIONS**

| Basin ID     | Area (sf)         | Area (acres)  | Area (sq miles) | Basin Descriptions |               |               |               | 100-Year, 10-Day |                |               |              |              |                  |       |            |
|--------------|-------------------|---------------|-----------------|--------------------|---------------|---------------|---------------|------------------|----------------|---------------|--------------|--------------|------------------|-------|------------|
|              |                   |               |                 | Treatment A %      | Treatment B % | Treatment C % | Treatment D % | Weighted E (in)  | Volume (ac-ft) | Flow cfs      | Volume (cf)  |              |                  |       |            |
| B1           | 783,028           | 17.98         | 0.02809         | 0%                 | 0.000         | 0%            | 0.000         | 15%              | 2.696          | 85%           | 15.279       | 2.135        | 4.892            | 74.54 | 213081.005 |
| <b>Total</b> | <b>783,028.00</b> | <b>17.976</b> | <b>0.02809</b>  | <b>0.000</b>       | <b>0.000</b>  | <b>0.000</b>  | <b>0.000</b>  | <b>0.000</b>     | <b>0.000</b>   | <b>15.279</b> | <b>4.892</b> | <b>74.54</b> | <b>213081.01</b> |       |            |

| Retention Pond Volume Calculation              |                      |
|--|----------------------|
| Top Elevation                                  | 5,297.50 Ft.         |
| Top Area                                       | 49,764 Sq. Ft.       |
| Bottom Elevation                               | 5,288.50 Ft.         |
| Bottom Area                                    | 8,400 Sq. Ft.        |
| Total Volume                                   | 261,738.00 Cubic Ft. |
| Max Water Elevation                            | 5,296.50 Ft.         |
| Max Water Elevation Area                       | 44,880.00 Sq. Ft.    |
| Max Water Volume                               | 213,120.00 Cubic Ft. |
| Required Volume                                | 213,081.01 Cubic Ft. |
| Design Free Board                              | 1.00 Ft.             |
| Note: Existing Pond Volume = 100,431 Cubic Ft. |                      |

| Pipe Sizing Calculation  |           |
|--|-----------|
| 24" Conc Pipe Max Flow   | 16.00 CFS |
| 12" PVC Pipe Max Flow  | 5.15 CFS  |
| Combined Max Flow  | 21.15 CFS |
| 30" HDPE Pipe Max Flow   | 28.10 CFS |
| Flow Required  | 21.15 CFS |
| Note: Previous Drainage Reports Q16DA5000A and Q16DA5000B indicate that the existing storm drain pipe system is flowing at max capacity. |           |
| Note: See pipe capacity charts for additional pipe information.  |           |



FIRM MAP: 35001C0363G

**LEGAL DESCRIPTION**

TR D-1 PLAT OF TRACTS D-1 THRU D-7 MESA DEL SOL INNOVATION PARK II (A SUBDIVISION OF TRACT D MESA DEL SOL INNOVATION PARK II) CONT 16.4161 AC

**ACS BENCHMARK**

A.G.R.S. MONUMENT "4-016"  
 NEW MEXICO STATE PLANE COORDINATES  
 (CENTRAL ZONE-N.A.D. 1983)  
 PUBLISHED EL=5298.643 US SURVEY FT (NAVD 1988)



\\TWNASVZ\_Drive\2023\2023103\_Mesa Del Sol Innovation Park\_Ponding.dwg Construction\2023103\_BASINS.dwg Feb 09, 2024 - 9:41 am

| 24" CONCRETE PIPE CAPACITY |                 |
|----------------------------|-----------------|
| Project Description        |                 |
| Friction Method            | Manning Formula |
| Solve For                  | Discharge       |
| Input Data                 |                 |
| Roughness Coefficient      | 0.013           |
| Channel Slope              | 0.005 ft/ft     |
| Normal Depth               | 24.0 in         |
| Diameter                   | 24.0 in         |
| Discharge                  | 16.00 cfs       |
|                            |                 |
| v.1 H:1                    |                 |

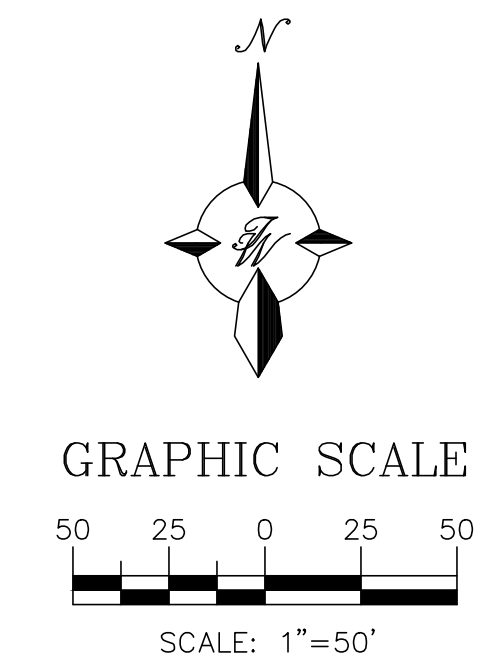
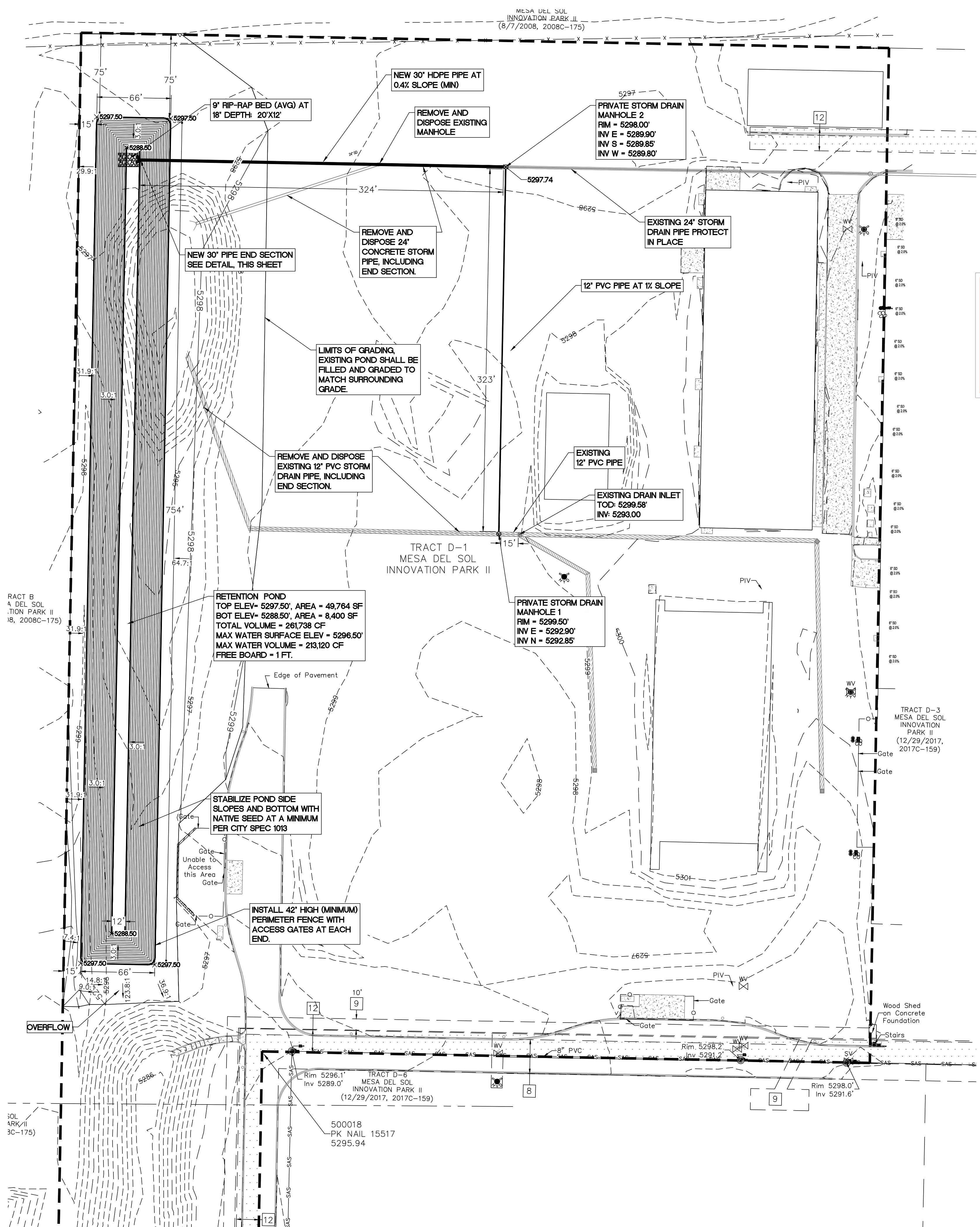
| 12" PVC PIPE CAPACITY |                 |
|-----------------------|-----------------|
| Project Description   |                 |
| Friction Method       | Manning Formula |
| Solve For             | Discharge       |
| Input Data            |                 |
| Roughness Coefficient | 0.009           |
| Channel Slope         | 0.010 ft/ft     |
| Normal Depth          | 12.0 in         |
| Diameter              | 12.0 in         |
| Discharge             | 5.15 cfs        |
|                       |                 |
| v.1 H:1               |                 |

| 30" HDPE PIPE CAPACITY |                 |
|------------------------|-----------------|
| Project Description    |                 |
| Friction Method        | Manning Formula |
| Solve For              | Discharge       |
| Input Data             |                 |
| Roughness Coefficient  | 0.012           |
| Channel Slope          | 0.004 ft/ft     |
| Normal Depth           | 30.0 in         |
| Diameter               | 30.0 in         |
| Discharge              | 28.10 cfs       |
|                        |                 |
| v.1 H:1                |                 |

|  |   |  |
|--|---|--|
|  | <b>KAIROS FULLY DEVELOPED POND</b><br><b>ALBUQUERQUE, NM</b><br><b>GRADING AND DRAINAGE</b><br><b>BASIN MAP</b> | DRAWN BY<br>BF<br>DATE<br>02/06/2024<br>2023103_BASINS |
|  |   | SHEET #<br><b>GR-0</b><br>JOB #<br>2023103             |



\\TWNAS-V-Drive\2023\2023103 Mesa Del Sol Innovation Park Ponding.dwg Construction\2023103\_GRB.dwg Feb 09, 2024 - 9:43am



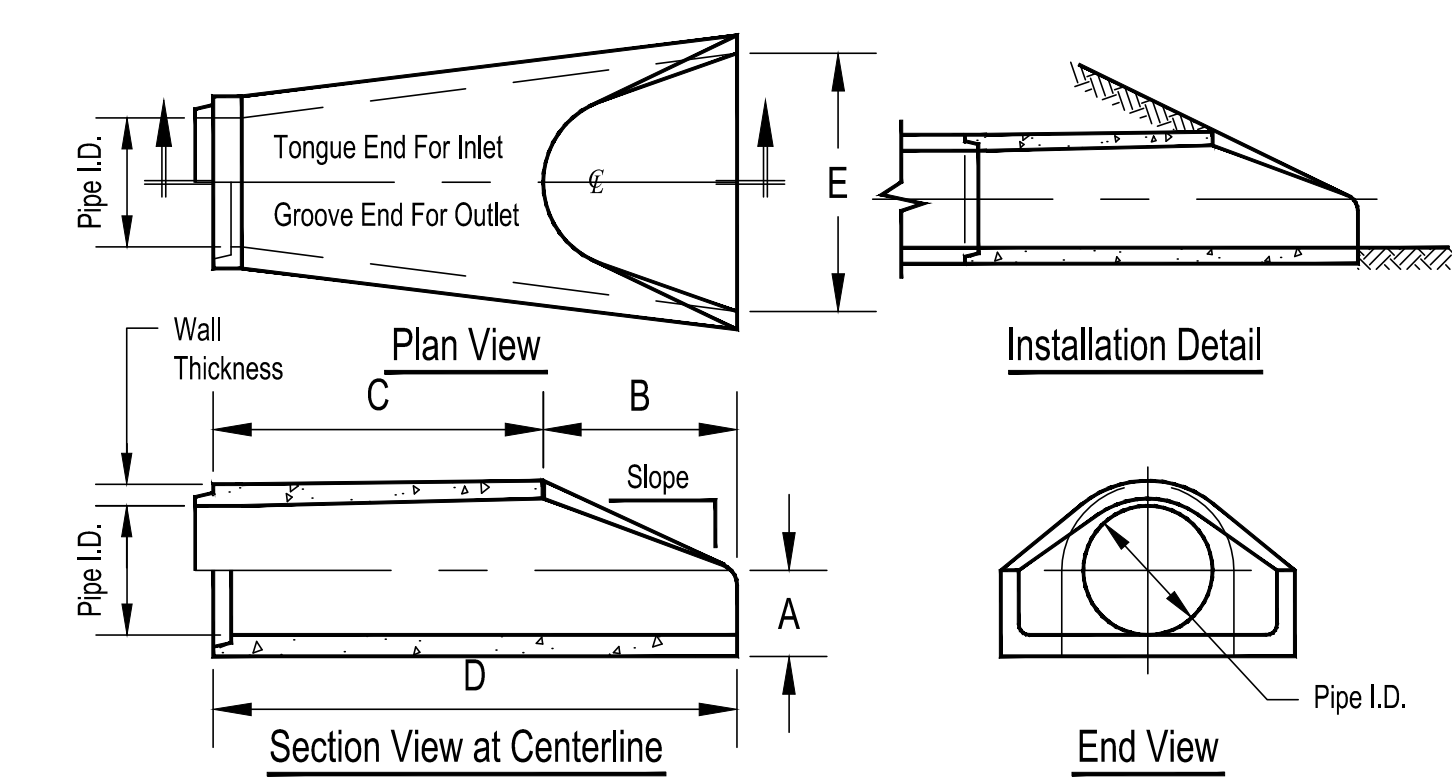
**LEGEND**

|  |                   |           |                                    |
|--|-------------------|-----------|------------------------------------|
|  | CURB & GUTTER     | x 5048.25 | SPOT ELEVATION                     |
|  | BOUNDARY LINE     |           | FLOW ARROW                         |
|  | EASEMENT          |           | EXISTING CONCRETE STORM DRAIN PIPE |
|  | BUILDING          |           | EXISTING PVC STORM DRAIN PIPE      |
|  | SIDEWALK/CONCRETE |           | EXISTING CONTOUR MAJOR             |
|  | STORM DRAIN       | -5010-    | EXISTING CONTOUR MINOR             |
|  | CONTOUR MAJOR     |           |                                    |
|  | CONTOUR MINOR     |           |                                    |

**CAUTION**  
 ALL EXISTING UTILITIES/TOPOGRAPHY SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

- EROSION CONTROL NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
  - CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING ROADWAY.
  - REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
  - ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

**Flared End Section  
 12" - 72" Diameter Pipe**



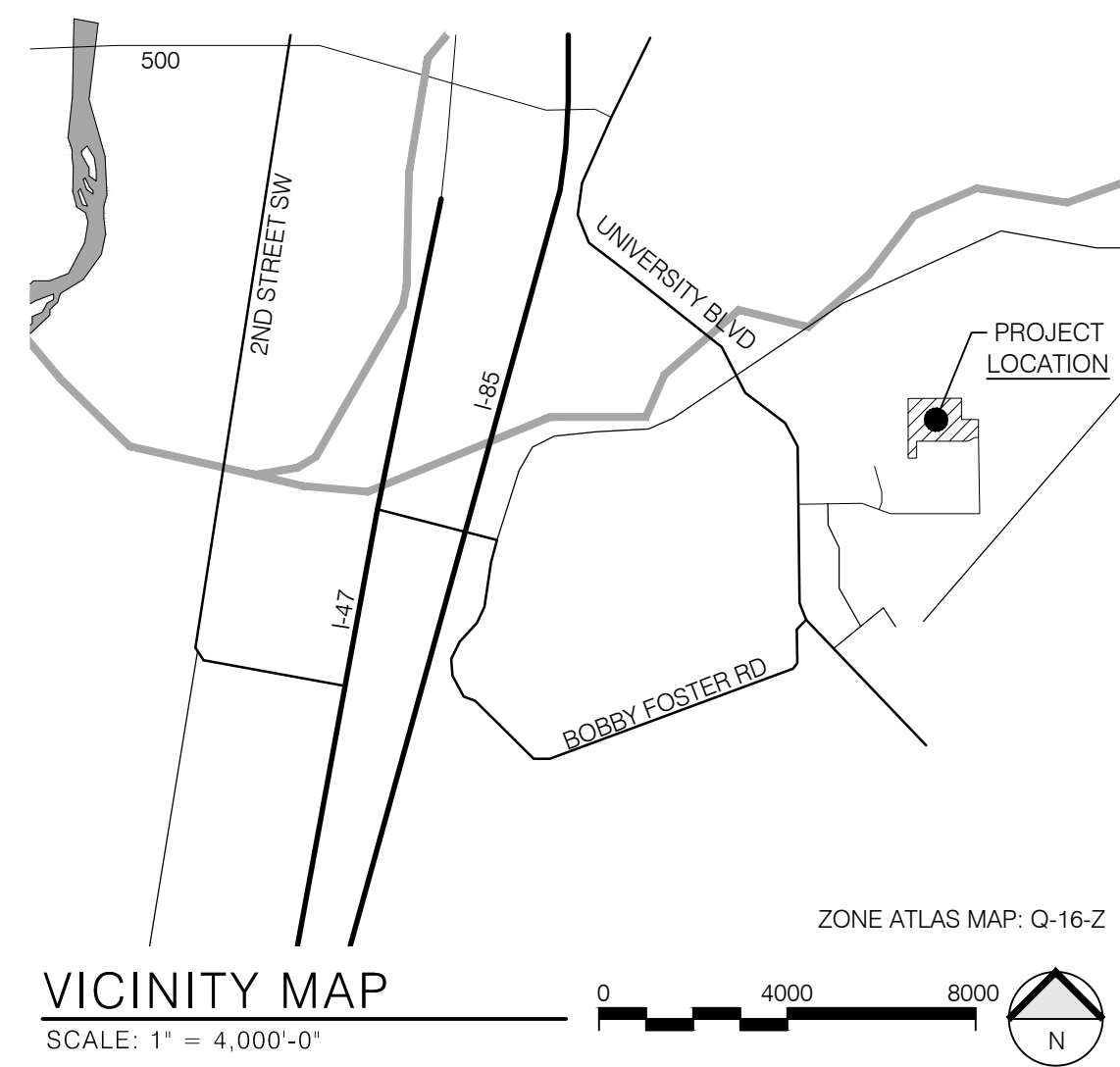
| Pipe Inner Diameter (inches) | Wall Thickness (inches) | A (inches) | B (inches) | C (inches) | D (inches) | E (inches) | Slope |
|------------------------------|-------------------------|------------|------------|------------|------------|------------|-------|
| 12                           | 2                       | 4          | 24         | 48 7/8     | 72 7/8     | 30         | 3:1   |
| 15                           | 2 1/4                   | 6          | 27         | 46         | 73         | 30         | 3:1   |
| 18                           | 2 1/2                   | 9          | 27         | 46         | 73         | 36         | 3:1   |
| 24                           | 3                       | 9 1/2      | 43 1/2     | 30         | 73 1/2     | 48         | 3:1   |
| 30                           | 3 1/2                   | 12         | 54         | 19 3/4     | 73 3/4     | 60         | 3:1   |
| 36                           | 4                       | 15         | 63         | 34 3/4     | 97 3/4     | 72         | 3:1   |
| 42                           | 4 1/2                   | 21         | 63         | 35         | 98         | 78         | 3:1   |
| 48                           | 5                       | 24         | 72         | 26         | 98         | 84         | 3:1   |
| 54                           | 5 1/2                   | 27         | 65         | 35         | 100        | 90         | 2:1   |
| 60                           | 6                       | 30         | 60         | 39         | 99         | 96         | 2:1   |
| 66                           | 6 1/2                   | 32         | 78         | 21         | 99         | 102        | 2:1   |
| 72                           | 7                       | 34         | 78         | 21         | 99         | 108        | 2:1   |

- Notes:  
 1. Produced to meet ASTM specifications.  
 2. Contact a Concrete Pipe Division representative for details not listed on this sheet.

**FLARED END SECTION DETAIL**  
 NTS

|                                  |   |                        |
|----------------------------------|---|------------------------|
|                                  | <b>KAIROS FULLY DEVELOPED POND</b><br><b>ALBUQUERQUE, NM</b>                                  | DRAWN BY<br>BF         |
|                                  | <b>GRADING &amp; DRAINAGE PLAN</b>  | DATE<br>02/06/2024     |
|                                  | 5571 MIDWAY PARK PLACE NE<br>ALBUQUERQUE, NM 87109<br>(505) 858-3100<br>www.tierrawestllc.com | SHEET #<br><b>GR-1</b> |
| RONALD R. BOHANNAN<br>P.E. #7868 | 02/06/2024  | JOB #<br>2023103       |





**PARKING AND TRAFFIC:**

REQUIRED PARKING SPACES PER IDO TABLE 5-5-1:

| USE  | PARKING REQUIREMENT       | TOTAL BUILDING SQ.FT. | REQUIRED PARKING |
|--|---------------------------|-----------------------|------------------|
| INDUSTRIAL                                   |                           |                       |                  |
| SPECIAL MANUFACTURING (EXISTING BUILDING)    | 1 SPACE / 1,000 SF GFA    | 168,288               | 168 SPACES*      |
| LIGHT MANUFACTURING (MS & TDL FACILITIES)    | 1 SPACE / 1,000 SF GFA    | 91,100 TOTAL          | 91 SPACES*       |
| OFFICES & SERVICES                           |                           |                       |                  |
| OFFICE (MODULAR OFFICE)                      | 3.5 SPACES / 1,000 SF GFA | 8,264                 | 28 SPACES*       |
| TOTAL REQUIRED (INCLUDING ACCESSIBLE SPACES) |                           |                       | 287 SPACES       |

REQUIRED ACCESSIBLE PARKING SPACES PER 2015 NMCBC TABLE 1106.1:  
101-300 TOTAL PARKING SPACES = 8 ACCESSIBLE SPACES (2 VAN ACCESSIBLE)

REQUIRED MOTORCYCLE PARKING SPACES PER IDO TABLE 5-5-4:  
151-300 REQUIRED OFF-STREET VEHICLE PARKING SPACES = 5 SPACES

REQUIRED BICYCLE PARKING SPACES PER IDO TABLE 5-5-5:  
NON-RESIDENTIAL USES NOT LISTED IN TABLE  
10% OF REQUIRED OFF-STREET PARKING 287 X 0.10 = 29

REQUIRED VS PROVIDED PARKING SPACES:

|                    | REQUIRED:       | PROVIDED:                              |
|--------------------|-----------------|--|
| TOTAL SPACES       | 287             | 223 + 8 NEW + 48 HOV** + 14VP*** = 295 |
| HOV SPACES         | 0               | 12                                     |
| VANPOOL PARKING    | 0               | 2                                      |
| ACCESSIBLE PARKING | 8 TOTAL / 2 VAN | 12 TOTAL / 6 VAN                       |
| MOTORCYCLE SPACES  | 5               | 12                                     |
| BIKE PARKING       | 24              | 24 (8 NEW)                             |

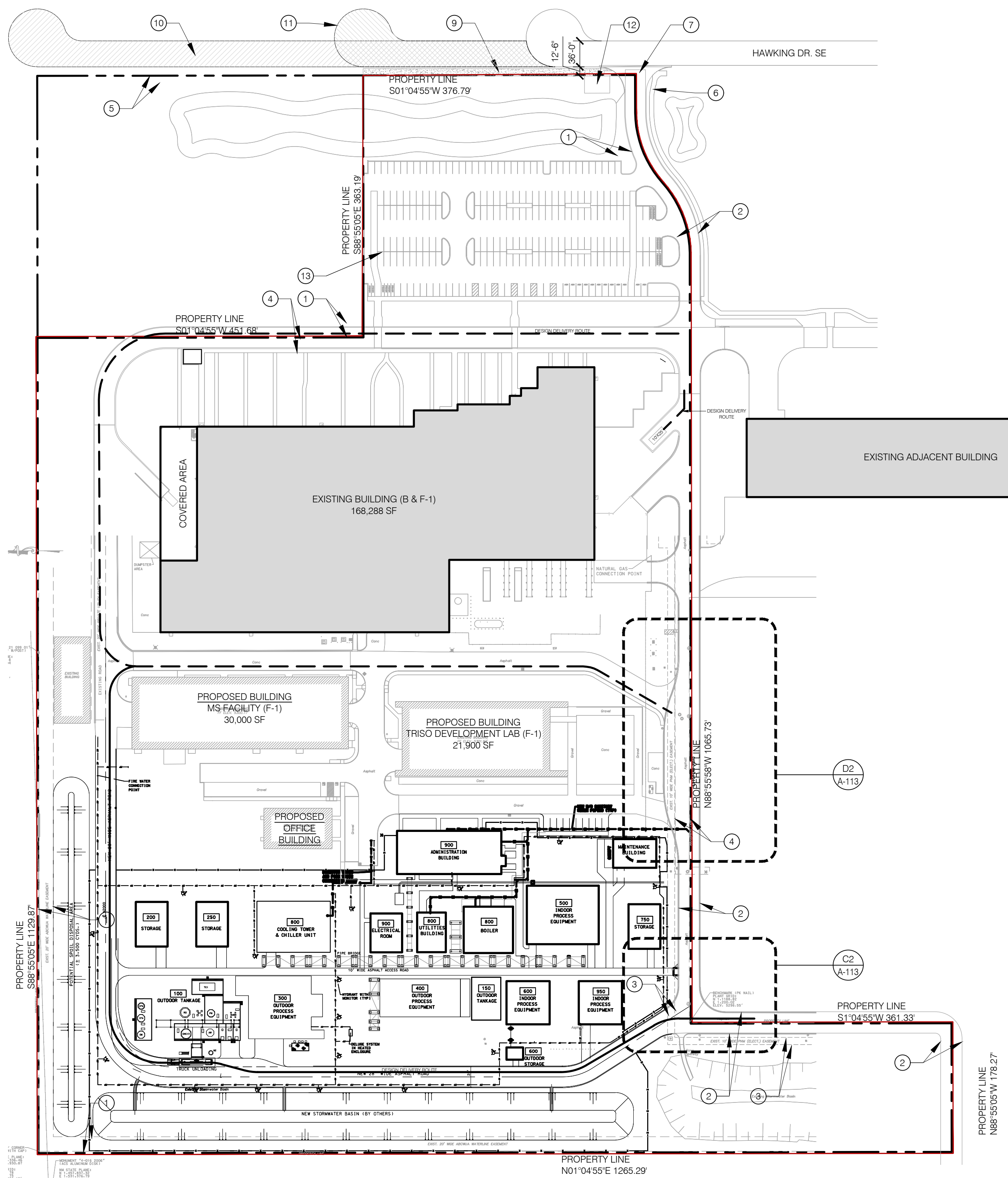
PARKING STALL SIZING AND REQUIREMENTS

NEW AND EXISTING PARKING STALL SIZING:

| TYPE OF PARKING  | MIN. WIDTH | MIN. LENGTH | MIN. OVERHANG |
|------------------|------------|-------------|---------------|
| STANDARD/ HOV    | 8.5'       | 18'         | 2'            |
| COMPACT          | 7.5'       | 15'         | 1.5'          |
| MOTORCYCLE       | 4'         | 8'          | N/A           |
| ADA              | 8.5'       | 18'         | 2'            |
| ADA ACCESS AISLE | 8'         | 18'         | N/A           |

\* PARKING CALCULATIONS ARE ROUNDED DOWN TO THE NEAREST WHOLE NUMBER PER IDO SECTION 5-5(C)(1)(D)

\*\* 12 SPACES X 4 CARPOOL CREDIT PER IDO SECTION 5-5(C)(6)(B) = 48 SPACES TOWARD THE REQUIRED OFF-STREET PARKING REQUIREMENT



**SITE PLAN**  
SCALE: 1" = 100'

**KEYED NOTES:**

- EXISTING 20' WATERLINE EASEMENT
- EXISTING 30' PRIVATE ACCESS EASEMENT
- 10' EXISTING PNM EASEMENT
- EXISTING 20' PERMANENT PRIVATE UTILITY EASEMENT
- EXISTING 10' PUBLIC UTILITY EASEMENT
- EXISTING 6' SIDEWALK FROM RIGHT OF WAY TO THE PRIMARY BUILDING
- EXISTING SITE ACCESS, SHARED WITH NEIGHBORING PROPERTY
- NOT USED
- NEW 10' WIDE CONCRETE SIDEWALK PER EXISTING INFRASTRUCTURE AGREEMENT FROM DRB

- PROJECT # 2020-004448. IMPROVEMENTS ARE PENDING THE COMPLETION OF A SEPARATE PAVING AND UTILITY PROJECT ALONG HAWKING DRIVE BY GOLD MESA INVESTMENT, LLC (PROJECT # PR-2019-001971). THESE IMPROVEMENTS ARE NOT INCLUDED IN THE SCOPE OF THIS SUBMITTAL. SIDEWALK MAY BE PLACED AT THE PROPERTY LINE
- PUBLIC ROADWAY IMPROVEMENTS BY ADJACENT DEVELOPER TO INCLUDE 'PAVED ROADWAY, STRIPING, CURB AND GUTTER, STREETLIGHTS (1/2 STREET IMPROVEMENT IMPROVEMENT - APPROX 780 LF) TO INCLUDE A TEMPORARY TURN AROUND WITHIN R.O.W.' PER PROJECT NUMBERS PR-2019-001971 AND SD-2019-00012/00019
  - PUBLIC ROADWAY IMPROVEMENTS BY KAIROS POWER TO INCLUDE 'PAVED ROADWAY,

- STRIPING, CURB AND GUTTER (1/2 STREET IMPROVEMENT IMPROVEMENT - APPROX 350 LF) TO INCLUDE A TEMPORARY TURN AROUND WITHIN R.O.W.' PER PROJECT NUMBERS PR-2020-004448 & SI-2023-00132
- PROPOSED WATER METER VAULT WITHIN 25X35' EASEMENT. FINAL LOCATION TO BE DETERMINED AND EASEMENT GRANTED AS PART OF A FUTURE ABOWUA CONNECTION PERMIT
  - 2 NEW VAN POOL PARKING SPACES

**GENERAL NOTES:**

- NO VARIANCES ARE PROPOSED, OR NECESSARY TO IMPLEMENT THIS PLAN.
- NO ACCESS EASEMENTS ARE PROPOSED WITHIN THE SCOPE OF THIS PROJECT.
- THE PROPOSED CONSTRUCTION WILL BE COMPLETED IN A ONE PHASE.
- PROPOSED BUILDINGS ARE TO BE USED FOR INDUSTRIAL MANUFACTURING OR OFFICE USES.
- ACCESS EASEMENTS ARE NOT PROPOSED WITHIN THE SCOPE OF THIS TRAFFIC CIRCULATION LAYOUT.
- ROADS ADJACENT TO THE SITE ARE PRIVATE WAYS, EXCEPT FOR THE CITY STREET - HAWKING DRIVE SE.
- MAXIMUM GRADES SHOULD NOT EXCEED 8% IN PARKING AREAS. FOR MAJOR CIRCULATION AISLES AND ADJACENT TO MAJOR PEDESTRIAN ENTRANCES, THE GRADES SHOULD BE KEPT TO 6% OR LESS. HANDICAP ACCESS TO BUILDINGS NEEDS TO BE MAINTAINED. CONTACT CITY ZONING FOR DETAILS.
- A NEW REFUSE FACILITY IS NOT INCLUDED IN THE SCOPE OF THIS PROJECT. PROPOSED BUILDINGS WILL UTILIZE THE EXISTING REFUSE FACILITY.
- OFF-SITE RIGHT-OF-WAY IMPROVEMENTS, EASEMENTS, OR HANDICAP RAMPS ARE NOT PROPOSED WITH THIS TRAFFIC CIRCULATION LAYOUT.
- HAWKING DRIVE SE IS CLASSIFIED AS A LOCAL URBAN STREET AND DOES NOT HAVE ACCESS POINT LANES OR QUEUING REQUIREMENTS. HOWEVER, THE EXISTING PARKING AREA IS ACCESSED NEARLY 150' FROM HAWKING DRIVE.
- NO DRIVE THROUGH FACILITIES ARE PROPOSED IN THIS PROJECT.
- ALL ACCESS AISLE AND ROAD DIMENSIONS EXCLUDE CURBS UNLESS OTHERWISE NOTED.

**GENERAL INFORMATION:**

|  |  |
|--|--|
| LOT COVERAGE:  | EXISTING: 225,452 SF<br>PROPOSED: 267,652 SF   |
| BUILDING AREA:   | NEW BUILDING AREA: 42,200 SF<br>EXISTING: 225,452 SF<br>267,652 SF   |
| BUILDING TYPE:   | II-B   |
| PROPOSED OCCUPANCY:  | LIGHT MANUFACTURING (F)  |
| <b>PARKING AND TRAFFIC</b>   |  |
| EXISTING PARKING SPACES:   | 223 STANDARD SPACES<br>12 HOV SPACES<br>12 ADA SPACES (5 VAN ACCESSIBLE)<br>12 MOTORCYCLE SPACES<br>24 BIKE PARKING SPACES |
| PROPOSED PARKING SPACES:   | 8 STANDARD SPACES + 2 VANPOOL SPACES   |
| TOTAL SPACES   | 223 + 8 NEW STANDARD + 48 HOV** + 14 NEW VP*** = 295   |
| * PARKING CALCULATIONS ARE ROUNDED DOWN TO THE NEAREST WHOLE NUMBER PER IDO SECTION 5-5(C)(1)(D)                             |  |
| ** 12 SPACES X 4 CARPOOL CREDIT PER IDO SECTION 5-5(C)(6)(B) = 48 SPACES TOWARD THE REQUIRED OFF-STREET PARKING REQUIREMENT  |  |
| *** 2 SPACES X 7 VAN POOL CREDIT PER IDO SECTION 5-5(C)(6)(B) = 14 SPACES TOWARD THE REQUIRED OFF-STREET PARKING REQUIREMENT |  |

**PLANNING HISTORY:**

- MASTER PLAN**  
PLANNED COMMUNITY (PC) ZONE: MESA DEL SOL - EMPLOYMENT CENTER AS ESTABLISHED IN THE MESA DEL SOL LEVEL B PLAN
- SUBDIVISIONS**  
2017 CURRENT PROPERTY BOUNDARIES ESTABLISHED IN SUBDIVISION OF TRACT D. PROJECT NUMBER 1006201, APPLICATION NUMBER 17DRB-70318
- 2023 CONSOLIDATION OF TRACTS D-1 AND D-3 (D-1-A) FOR EXPANSION OF KAIROS POWER CAMPUS APPROVED PER DHO AGENDA (2023-02-08) AND AWAITING NOTICE OF DECISION AND SIGNATURES. PROJECT NUMBER PR-2020-004448, APPLICATION NUMBER SD-2023-00029
- SITE PLANS**  
2009 ADMINISTRATIVE AMENDMENT FOR 'REVISED LANDSCAPING AND SOLAR TOWERS REMOVED' FOR THE EXISTING BUILDING (PREVIOUSLY SCHOTT SOLAR BUILDING). NO EARLIER SITE PLAN REVIEW INFORMATION AVAILABLE. PROJECT NUMBER 1006201, APPLICATION NUMBER 09AA-10019
- 2020 MAJOR AMENDMENT TO SITE PLAN FOR 40,000 SF BUILDING ADDITION. PROJECT NUMBER PR-2020-004448, APPLICATION NUMBER SI-2020-00964
- 2023 SITE PLAN ADMINISTRATIVE DFT FOR THREE NEW BUILDINGS. IN PROGRESS. PROJECT NUMBER PR-2020-004448, APPLICATION NUMBER SI-2023-00132

**EXECUTIVE SUMMARY:**

THE PROPOSED DEVELOPMENT FOR KAIROS POWER INVOLVES TWO LAND USE REVIEWS. THE INFORMATION AND DRAWINGS INCLUDED IN THIS SUBMITTAL PACKAGE HAVE BEEN PROVIDED FOR A SITE PLAN, MAJOR AMENDMENT, REVIEW BY THE DEVELOPMENT FACILITATION TEAM (DFT). THE SCOPE OF THIS SUBMITTAL INCLUDES THE SITE PREPARATION, BASIC UTILITIES AND SEVERAL NEW DETACHED BUILDINGS. THE PROPOSED BUILDINGS ARE AN EXPANSION TO THE EXISTING KAIROS POWER CAMPUS AND ARE TO BE USED FOR LIGHT MANUFACTURING.

THESE NEW BUILDINGS SUPPORT THE EXISTING MANUFACTURING IN THE EXISTING BUILDINGS. IN ADDITION TO BUILDINGS THERE SHALL BE EQUIPMENT, PIPING AND TANKS SIMILAR TO THOSE LOCATED SOUTH OF THE EXISTING TDL BUILDING. THIS PRODUCTION AREA IS REFERRED TO AS THE SALT PRODUCTION FACILITY (SPF).

APPROXIMATELY 12 METAL BUILDINGS WILL BE CONSTRUCTED TO SUPPORT SALT PRODUCTION. THE PRE-ENGINEERED METAL BUILDINGS WILL HOUSE THE MANUFACTURING PROCESS. PIPE STANDS AND TANKS WILL BE LOCATED AROUND THESE BUILDINGS TO TRANSFER MATERIALS BETWEEN THE BUILDINGS DURING THE PROCESS. EQUIPMENT PADS THAT SUPPORT VARIOUS TANKS AND THE PROCESS EQUIPMENT WILL BE LOCATED SEVERAL HUNDRED FEET FROM THE SOUTH PROPERTY LINE.

THE STORM WATER SWALE WILL BE RECONFIGURED TO ACCOMMODATE THIS DEVELOPMENT. THE SITE ACCESS ON THE WEST END OF THE SITE WILL BE CONNECTED TO THE REST OF THE CIRCULATION SYSTEM.

SITE PLAN ADMINISTRATIVE - DFT LAND USE REVIEW

6501 HAWKING DRIVE SE ALBUQUERQUE, NM 87106  
TR D-1 PLAT OF TRACTS D-1 THRU D-7 MESA DEL SOL INNOVATION PARK II A SUBDIVISION OF TRACT D MESA DEL SOL INNOVATION PARK II) CONT 16.4181 AC



2023.02.14



EXP: 12.31.2023

**KAIROS POWER FACILITY  
 SALT PLANT EXPANSION  
 NOT FOR CONSTRUCTION**

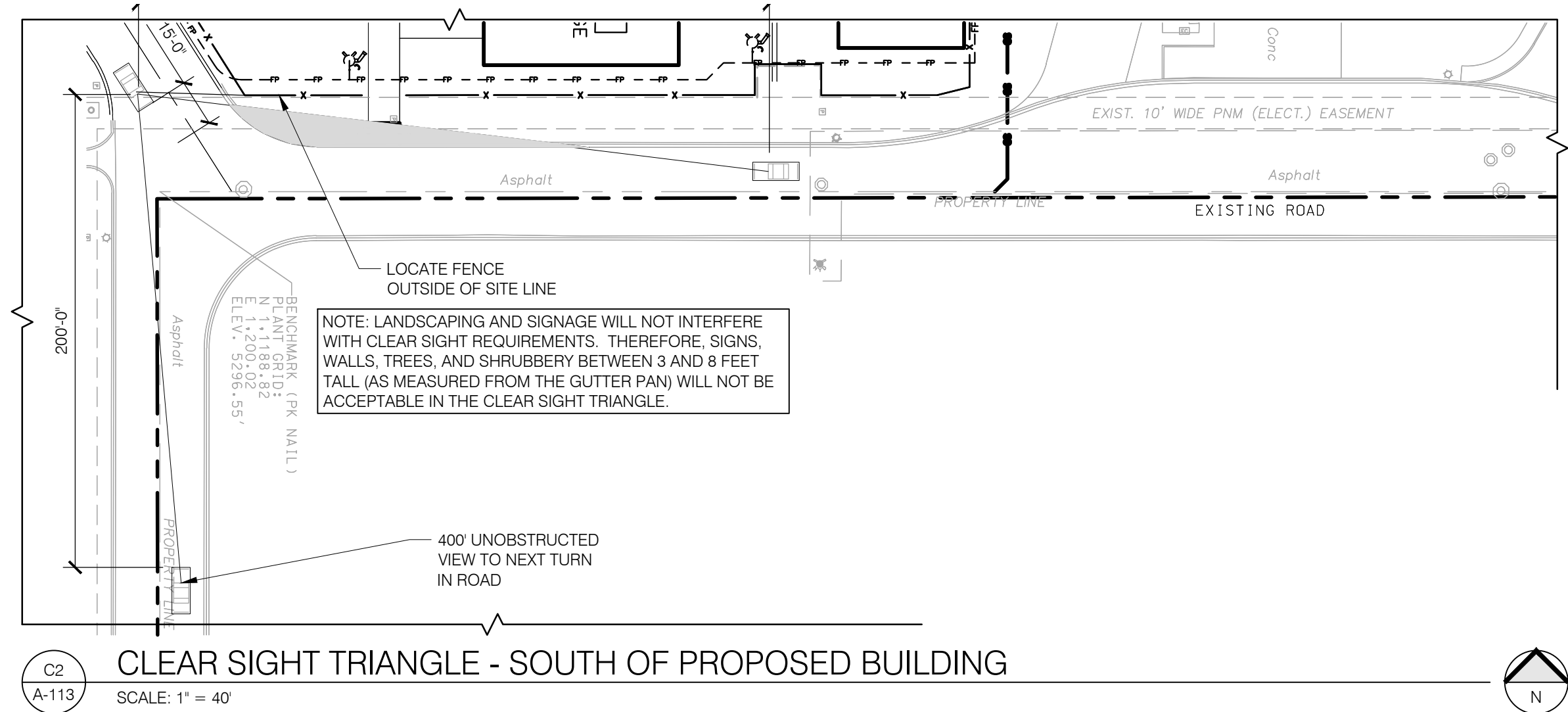
650 HAWKING DRIVE SE ALBUQUERQUE, NM 87106  
 TR D-1 PLAT OF TRACTS D-1 THRU D-7 MESA DEL SOL INNOVATIONPARK II (A SUBDIVISION OF TRACT D MESA DEL SOL INNOVATIONPARK II) CONT 16.4161 AC

**SITE PLAN DETAILS**

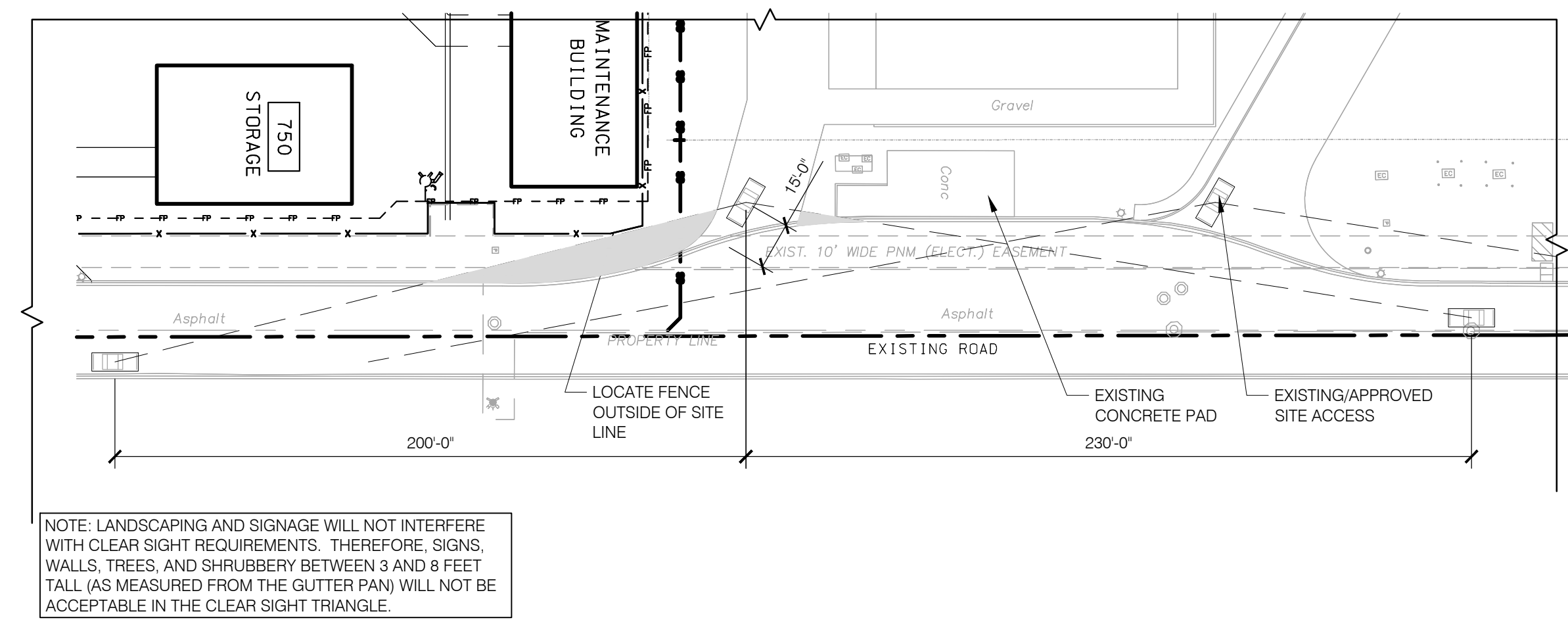
PROJECT NO.: 8003-22  
 DRAWN BY:  
 DATE: SEPTEMBER 19, 2024

**A-113**

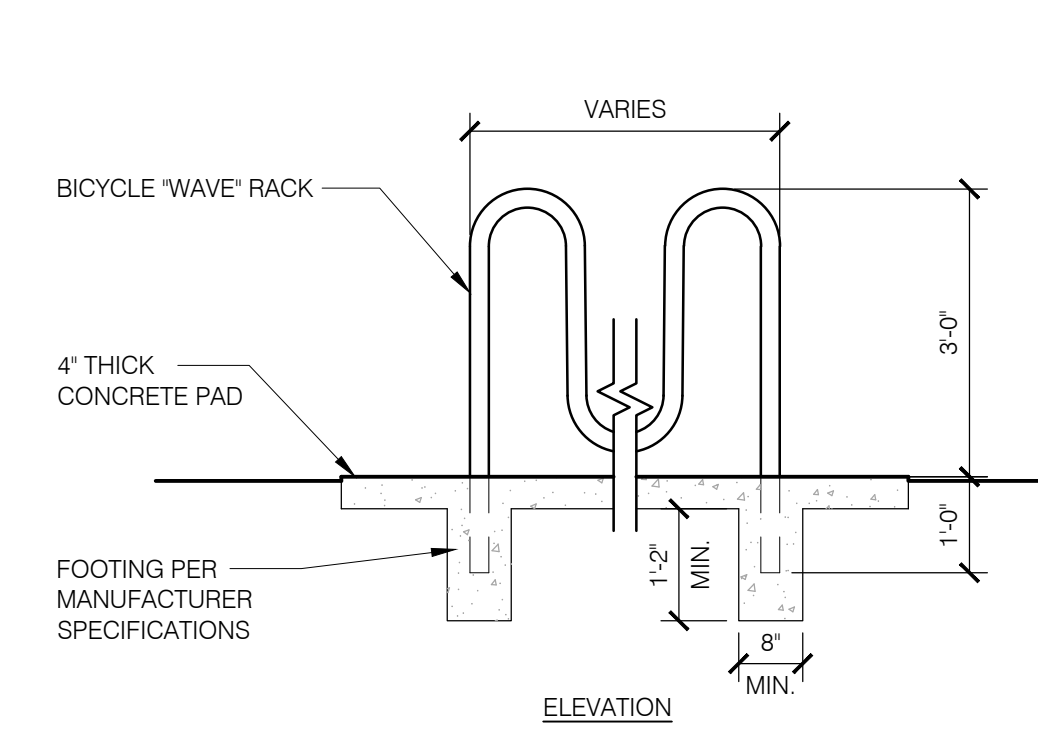
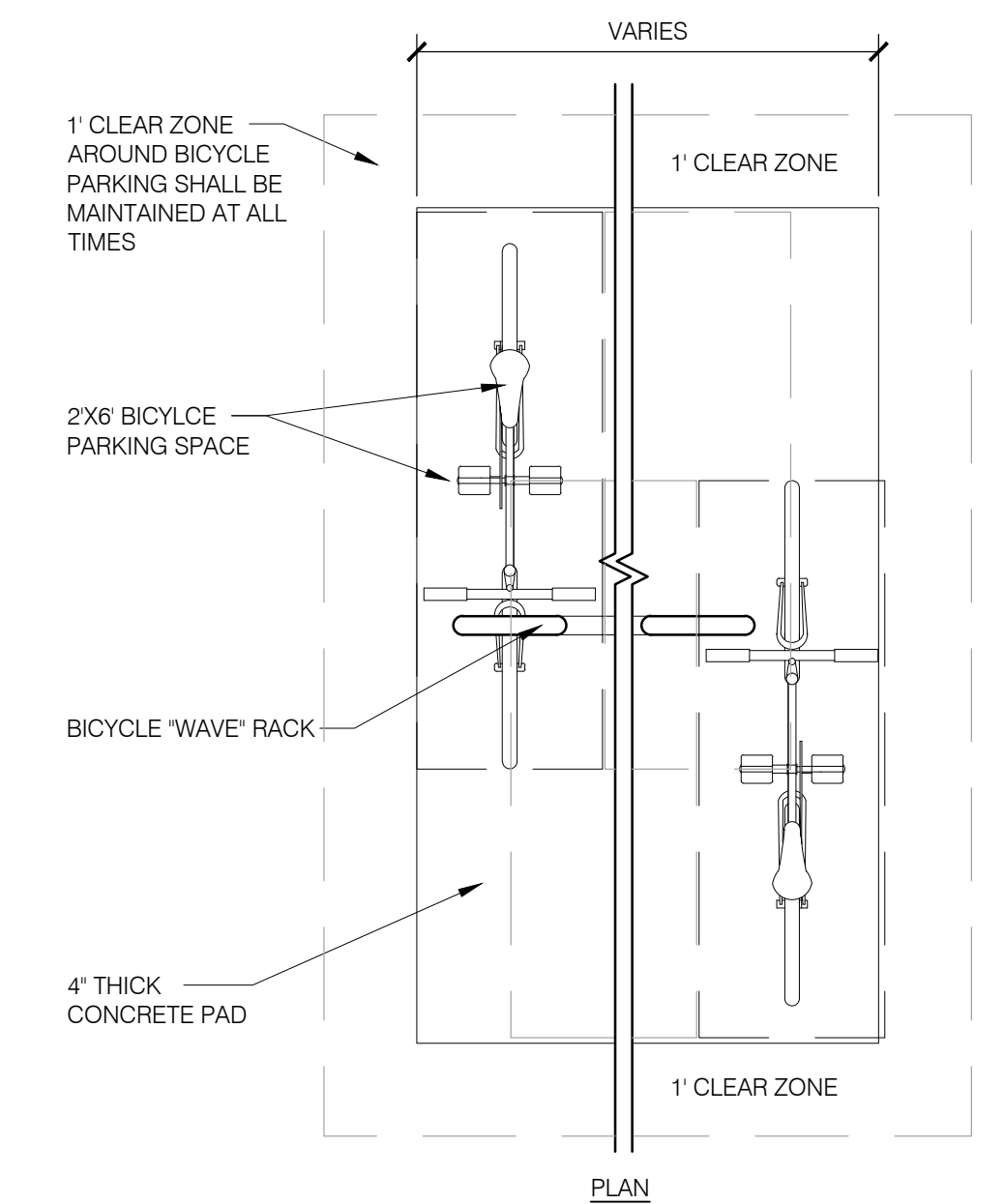
**SITE PLAN ADMINISTRATIVE - DFT LAND USE REVIEW**



**C2 CLEAR SIGHT TRIANGLE - SOUTH OF PROPOSED BUILDING**  
 SCALE: 1" = 40'



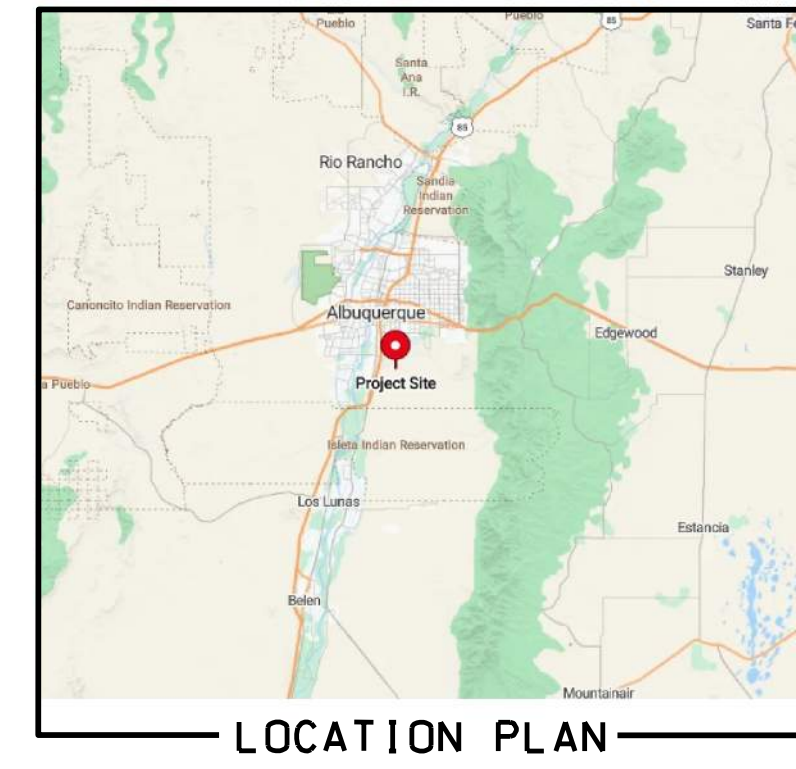
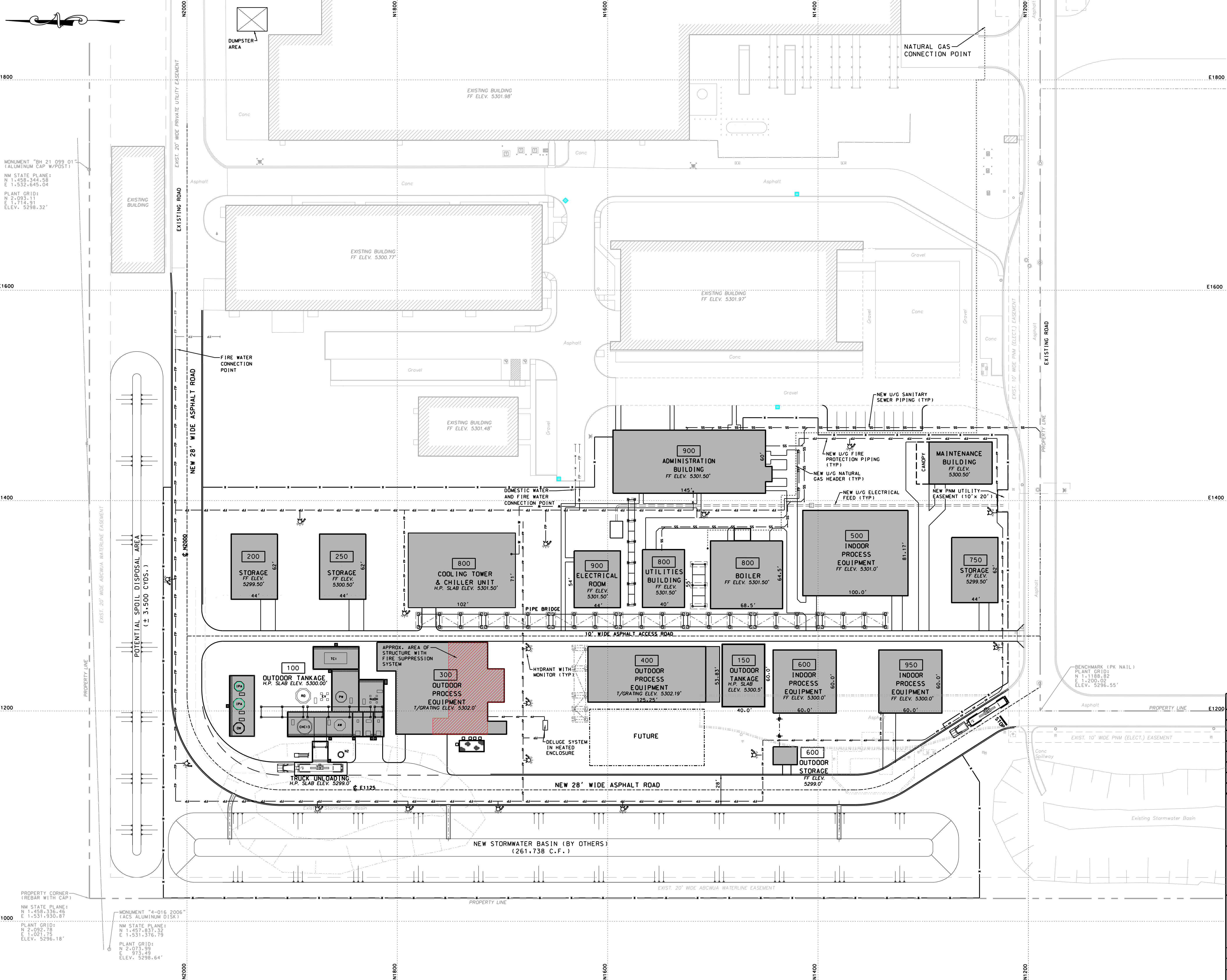
**D2 CLEAR SIGHT TRIANGLE - SOUTH OF PROPOSED BUILDING**  
 SCALE: 1" = 40'



- NOTES:**
- A. BICYCLES FRAMES ARE SUPPORTED HORIZONTALLY IN TWO PLACES
  - B. THIS BICYCLE RACK STORES BICYCLES IN AN UPRIGHT POSITION
  - C. THIS RACK ALLOWS FOR VARYING BICYCLE FRAME SIZES AND STYLES TO BE ATTACHED
  - D. BICYCLES ARE NOT REQUIRED TO BE LIFTED INTO THE RACK
  - E. EACH BICYCLE PARKING SPACE IS ACCESSIBLE WITHOUT MOVING OTHER BICYCLES
  - F. BICYCLE RACK TO BE INSTALLED WITH CONCRETE FOOTINGS AS SHOWN OR ANCHORED TO CONCRETE SLAB PER MANUFACTURERS SPECIFICATIONS

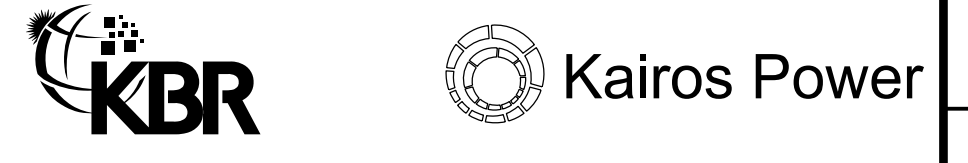
**D4 BICYCLE RACK DETAIL**  
 SCALE: 1/2" = 1'





**NOTE:**  
 BUILDING CLASSIFICATION AND BUILDING SPACING SHALL BE REVIEWED AND VERIFIED BY REGISTERED ARCHITECT OR ENGINEER OF RECORD RESPONSIBLE FOR DESIGNING BUILDING.

| REVISION HISTORY |         |   |     |         |
|------------------|---------|---|-----|---------|
| REV              | DATE    | DESCRIPTION                               | BY  | CHK APP |
| E                | 8-30-24 | REV. BLDG. SIZES, ADDED MAINTENANCE BLDG. | EJO |         |
| D                | 8-09-24 | ADDED DUMPSTER AREA                       | EJO |         |
| C                | 7-08-24 | ISSUED FOR DESIGN                         | EJO |         |
| B                | 5-08-24 | ISSUED FOR DESIGN                         | EJO |         |
| A                | 4-11-24 | ISSUED FOR CLIENT REVIEW                  | EJO |         |



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### KPSW PROJECT SAGUARO CIVIL KEY PLAN

|       |          |                |                       |      |
|-------|----------|----------------|-----------------------|------|
| DRAWN | EJO      | CHECKED        | APPROVED              | DATE |
| SCALE | 1" = 40' | DRAWING NUMBER | KPS-SLT-K11-900-1-001 |      |
| PROJ  | 218356   | REV            | E                     |      |

MONUMENT "BH 21 099 01"  
 (ALUMINUM CAP W/POST)  
 NM STATE PLANE:  
 N 1,458,344.58  
 E 1,532,645.04  
 PLANT GRID:  
 N 2+093.11  
 E 1+714.91  
 ELEV. 5298.32'

PROPERTY CORNER (REBAR WITH CAP)  
 NM STATE PLANE:  
 N 1,458,336.46  
 E 1,531,930.87  
 PLANT GRID:  
 N 2+092.78  
 E 1+021.75  
 ELEV. 5296.18'

MONUMENT "4-016 2006"  
 (ACS ALUMINUM DISK)  
 NM STATE PLANE:  
 N 1,451,837.32  
 E 1,531,376.79  
 PLANT GRID:  
 N 2+073.99  
 E 973.99  
 ELEV. 5296.64'





HAWKINGS DRIVE SE

E 2500

E 2000

E 1500

E 1000

N 2000

N 1500

N 1000

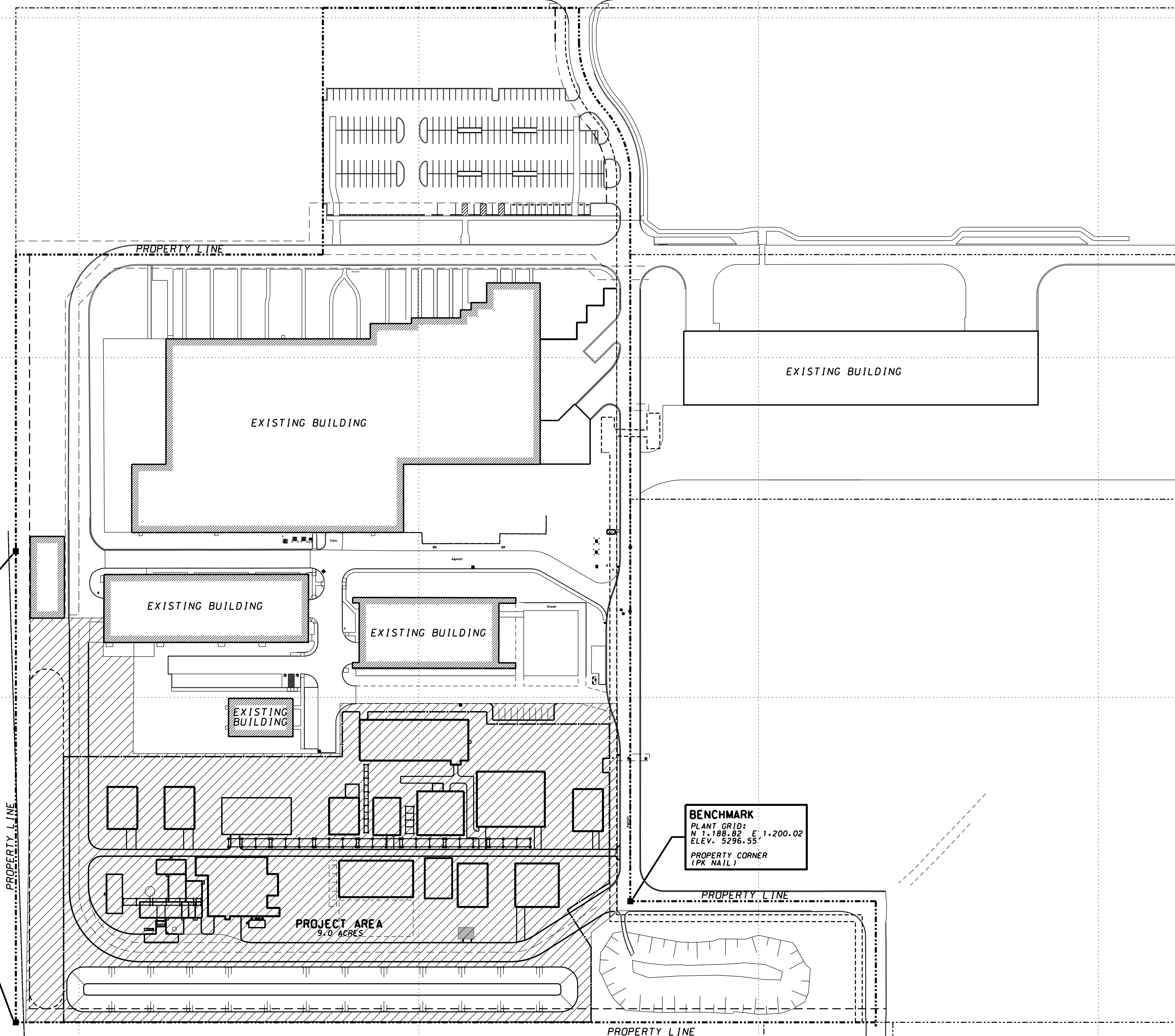
N 500

**BENCHMARK**  
 PLANT GRID: N 2,092.18 E 1,714.91  
 ELEV. 5298.32  
 NEW MEXICO STATE PLANE:  
 N 1,458,344.58 E 1,532,645.04  
 MONUMENT "BH 21 099 01"  
 (ALUMINUM CAP W/POST)

**BENCHMARK**  
 PLANT GRID: N 2,092.18 E 1,021.75  
 ELEV. 5296.18  
 NEW MEXICO STATE PLANE:  
 N 1,458,336.46 E 1,531,930.87  
 PROPERTY CORNER  
 (REBAR WITH CAP)

**BENCHMARK**  
 PLANT GRID: N 2,073.99 E 973.49  
 ELEV. 5296.95  
 NEW MEXICO STATE PLANE:  
 N 1,457,837.32 E 1,531,376.79  
 MONUMENT "4-016 2006"  
 (ACS ALUMINUM DISK)

**BENCHMARK**  
 PLANT GRID: N 1,188.82 E 1,200.02  
 ELEV. 5296.55  
 PROPERTY CORNER  
 (PK NAIL)



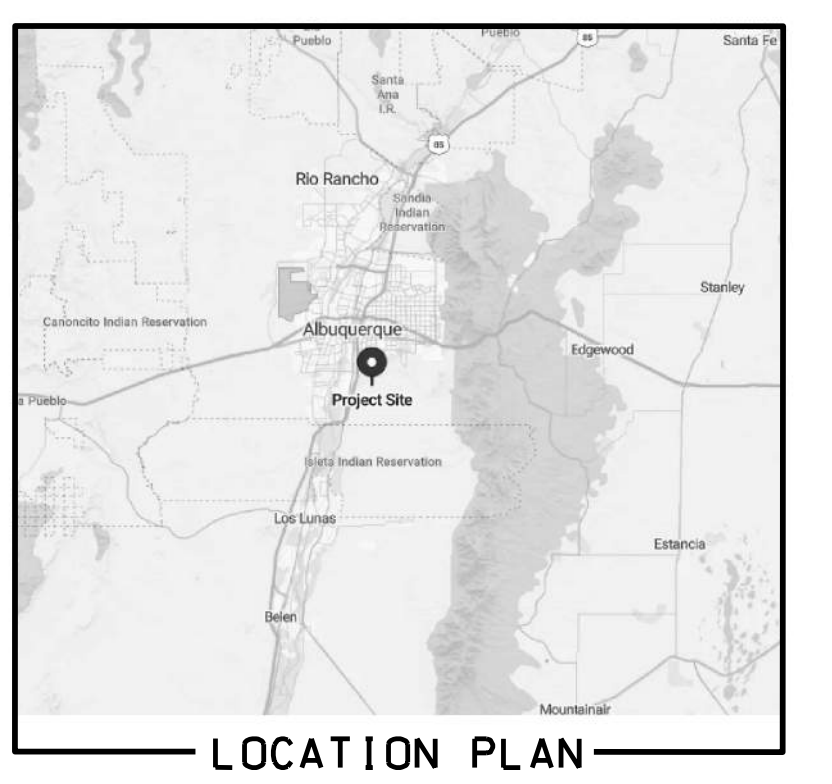
**GENERAL NOTES:**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SITE AND OSHA SAFETY AND CONSTRUCTION PRACTICES AND SHALL BE IN ACCORDANCE WITH ALL PROJECT DOCUMENTS AND PROJECT SPECIFICATION N212-KBR-CV-SPEC-G20-4007.
- ALL COORDINATES SHOWN ARE BASED UPON THE PLANT COORDINATE SYSTEM. EXISTING PLANT MONUMENTS TO BE USED FOR THIS PROJECT ARE SHOWN.
- EXISTING TOPOGRAPHY AND THE LOCATION OF EXISTING FACILITIES WITHIN THE PROJECT AREA ARE TAKEN FROM A FIELD SURVEY PERFORMED BY CSI-CARTESIAN SURVEYS INC. OF RIO RANCHO, NM AND DATED JAN. 2024. BALANCE OF EXISTING SITE FACILITIES SHOWN ARE BASED UPON EXISTING SITE DEVELOPMENT DRAWINGS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS WITHIN THE PROJECT AREA IN THE FIELD PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON AND/OR IF SUCH CONDITIONS, IN THE CONTRACTOR'S OPINION, WOULD RENDER THE PROPOSED DESIGN INEFFECTIVE OR INAPPROPRIATE.
- ALL UNDERGROUND UTILITY LOCATIONS SHOWN ARE NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES WITHIN THE PROJECT AREA ARE SHOWN. THE EXISTENCE OF ALL UNDERGROUND FACILITIES SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR AND CONSTRUCTION MANAGER IN THE FIELD PRIOR TO COMMENCING WORK.
- A MINIMUM OF THREE (3') FEET SEPARATION FROM EXISTING STRUCTURES OR UTILITIES SHALL BE MAINTAINED WHEN USING POWER EXCAVATING EQUIPMENT. IF THIS SEPARATION CANNOT BE MAINTAINED THE CONTRACTOR SHALL USE HAND EXCAVATING TECHNIQUES TO EXPOSE AND COMPLETELY LOCATE THE EXISTING ITEM PRIOR TO PROCEEDING WITH POWERED EXCAVATION EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE ALL REQUIRED SHORING ELEMENTS NEEDED TO FACILITATE NEW CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING STRUCTURES AND UTILITIES DURING CONSTRUCTION. NEW UTILITY CONNECTIONS AND RELOCATIONS OR REMOVAL WORK SHALL BE COORDINATED THE APPROPRIATE UTILITY.
- DO NOT SCALE THE DRAWINGS. ADJACENT AND SURROUNDING PHYSICAL CONDITIONS, BUILDINGS, STRUCTURES, ETC. ARE SCHEMATIC ONLY EXCEPT WHERE DIMENSIONS ARE SHOWN.
- CONTRACTOR'S BULK STORAGE AND MATERIAL LAYDOWN WILL BE PERMITTED IN SPECIFIED AREAS ON-SITE AS DESIGNATED BY THE CONSTRUCTION MANAGER. THE CONTRACTOR IS RESPONSIBLE FOR THE SECURITY OF MATERIALS AND EQUIPMENT AND NO MATERIAL MAY BE STORED IN PUBLIC RIGHT-OF-WAYS OR OTHERWISE IMPEDE ACCESS TO PUBLIC UTILITY COMPONENTS. CLEAN-UP FOR ALL AREAS WILL BE TO AN "AS FOUND" OR BETTER CONDITION IMMEDIATELY FOLLOWING THE PROJECT.
- MATERIAL DEMOLISHED AND REMOVED SHALL NOT BE DEPOSITED ON-SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSPORT AND DISPOSAL OF MATERIAL AT AN APPROPRIATE RECEIVING FACILITY. DEBRIS SHALL BE HANDLED IN STRICT CONFORMANCE WITH ALL STATE AND LOCAL LAWS.
- STORM WATER ACCUMULATED IN EXCAVATED AREAS SHALL BE PUMPED TO AN APPROVED FILTRATION DEVICE OR PORTABLE SEDIMENT TANK PRIOR TO RELEASE FROM THE PROJECT AREA.
- ALL LITTER, CONSTRUCTION DEBRIS AND CHEMICALS EXPOSED TO WEATHER SHALL BE REMOVED PRIOR TO ANTICIPATED RAIN EVENTS OR OTHERWISE PROTECTED SUCH THAT THEY DO NOT BECOME A POLLUTANT SOURCE.
- ALTERNATE ROUTES OF TRAVEL SHALL BE ESTABLISHED DURING ROAD CLOSURES TO ALLOW SUFFICIENT INGRESS/EGRESS TO EXISTING FACILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL ROADS AND PAVED AREAS TO REMOVE DIRT AND/OR CONSTRUCTION DEBRIS CAUSED BY THE WORK.
- THIS SITE FALLS IN THE AIR SPACE PROTECTION SUB-AREA FOR THE ALBUQUERQUE INTERNATIONAL AIRPORT.

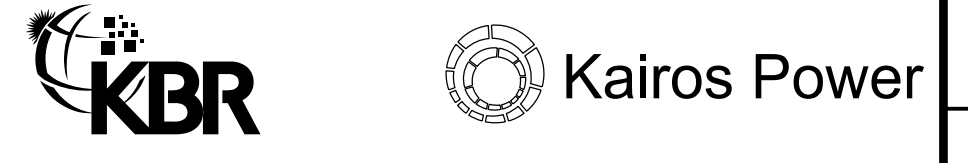
**REFERENCE DRAWINGS & DOCUMENTS:**

- KPS-SLT-K11-900-1-001 CIVIL KEY PLAN
- KPS-SLT-K11-900-1-002 OVERALL SITE PLAN
- KPS-SLT-K11-900-1-003 DEMOLITION PLAN
- KPS-SLT-K11-900-1-004 LAYOUT PLAN, SHT 1
- KPS-SLT-K11-900-1-005 LAYOUT PLAN, SHT 2
- KPS-SLT-K11-900-1-006 TYPICAL ROAD CROSS SECTIONS
- KPS-SLT-K11-900-1-007 TYPICAL SITE DETAILS
- KPS-SLT-K11-900-1-008 GRADING & DRAINAGE PLAN, SHT #1
- KPS-SLT-K11-900-1-009 GRADING & DRAINAGE PLAN, SHT #2
- KPS-SLT-K11-900-1-010 TYPICAL DRAINAGE DETAILS
- KPS-SLT-K11-900-1-011 UNDERGROUND UTILITY PLAN, SHT #1
- KPS-SLT-K11-900-1-012 UNDERGROUND UTILITY PLAN & DETAILS
- KPS-SLT-K11-900-1-013 UNDERGROUND UTILITY PLAN, SHT #2
- N212-KBR-CV-SPEC-G20-4007 CIVIL SPECIFICATION

THE PROFESSIONAL ENGINEER SIGNING AND SEALING THIS DRAWING IS ONLY RESPONSIBLE FOR THE AREA SHOWN HATCHED.



| REVISION HISTORY |         |                         |     |         |
|------------------|---------|-------------------------|-----|---------|
| REV              | DATE    | DESCRIPTION             | BY  | CHK APP |
| 0                | 8-05-24 | ISSUED FOR CONSTRUCTION | EJO | AS ZM   |

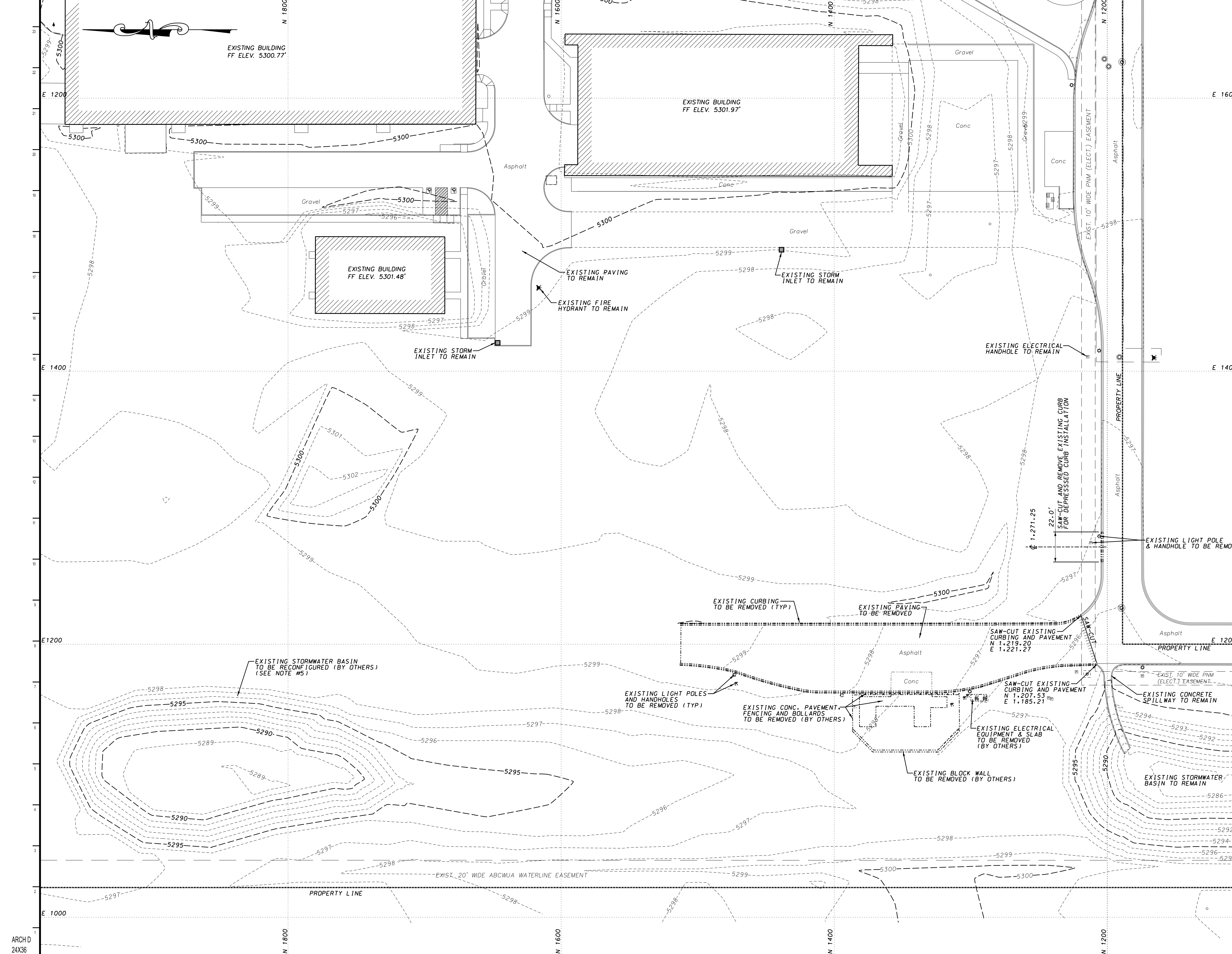


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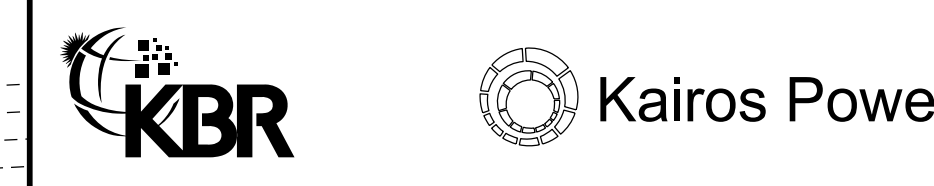
**KPSW PROJECT SAGUARO  
OVERALL SITE PLAN**

|       |           |                |                       |          |      |      |         |
|-------|-----------|----------------|-----------------------|----------|------|------|---------|
| DRAWN | EJO       | CHECKED        | AS                    | APPROVED | CS   | DATE | 7-30-24 |
| SCALE | 1" = 100' | DRAWING NUMBER | KPS-SLT-K11-900-1-002 |          | REV. | 0    |         |
| PROJ  | 218356    |                |                       |          |      |      |         |

- NOTES:**
1. REFER TO DRAWING No. KPS-SLT-K11-900-1-002 FOR GENERAL NOTES AND LIST OF REFERENCE DRAWINGS.
  2. ALL COORDINATES SHOWN FOR BASED ON THE PLANT COORDINATE SYSTEM. REFER TO DWG. No. KPS-SLT-K11-900-1-002 FOR BENCHMARK INFORMATION.
  3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES NECESSARY TO PROTECT THE PUBLIC FROM THE WORK AREA.
  4. ALL WORK IN THE PROJECT AREA MUST BE COORDINATED WITH THE CONSTRUCTION MANAGER TO MINIMIZE ANY INTERRUPTION OF PLANT OPERATIONS OR OTHER CONSTRUCTION ACTIVITIES.
  5. TOPOGRAPHIC SURVEY WAS PERFORMED DURING SITE CONSTRUCTION OF ADJACENT BUILDINGS AND PRIOR TO NEW BASIN CONSTRUCTION. EXISTING GRADES SHOWN MAY NOT EXACTLY REFLECT FIELD CONDITIONS AT TIME OF THIS CONTRACT EXECUTION.



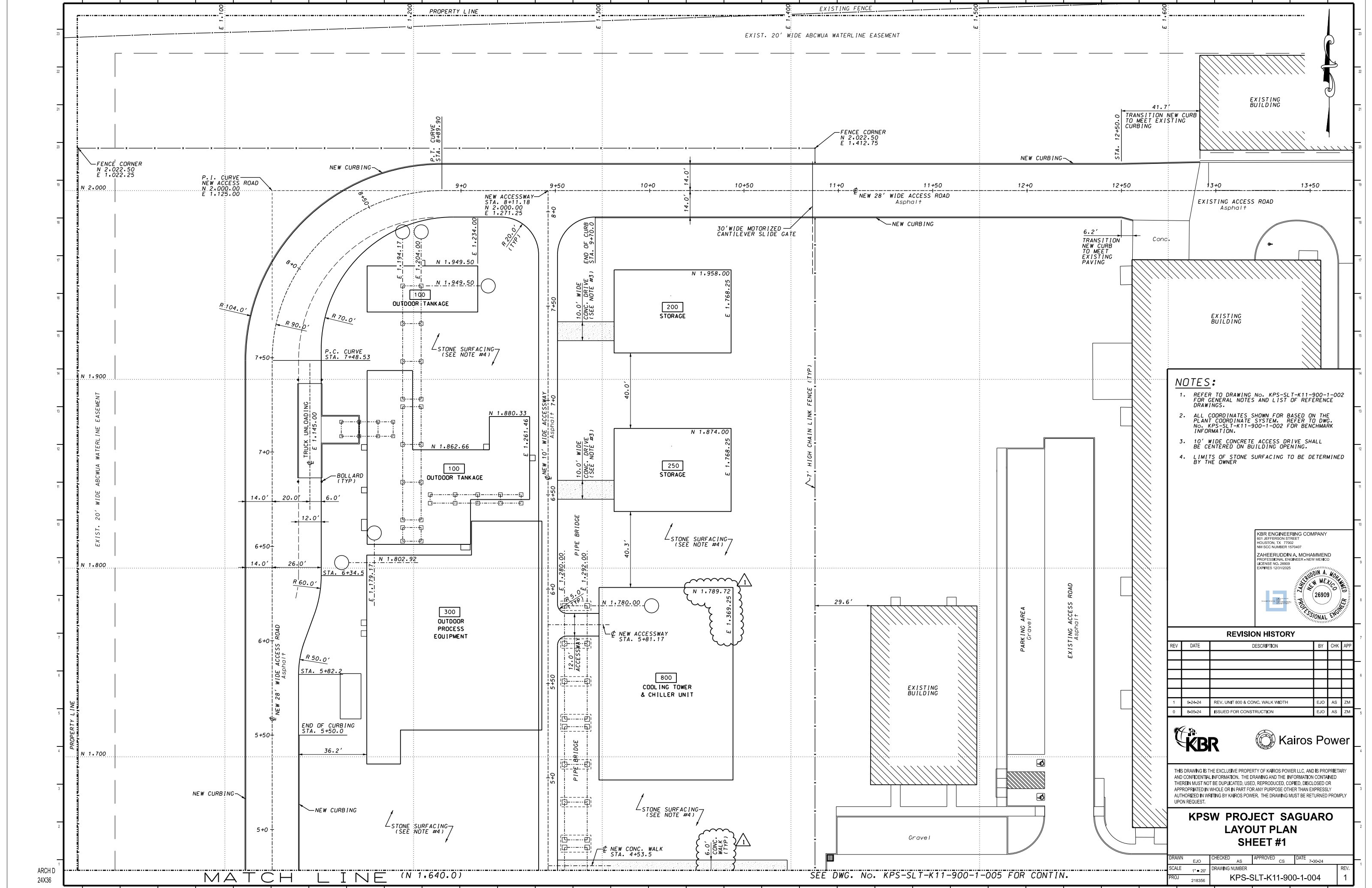
| REVISION HISTORY |         |                         |     |     |     |
|------------------|---------|-------------------------|-----|-----|-----|
| REV              | DATE    | DESCRIPTION             | BY  | CHK | APP |
| 0                | 8-05-24 | ISSUED FOR CONSTRUCTION | EJO | AS  | ZM  |



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**KPSW PROJECT SAGUARO  
DEMOLITION PLAN**

|       |          |                       |    |          |    |      |         |
|-------|----------|-----------------------|----|----------|----|------|---------|
| DRAWN | EJO      | CHECKED               | AS | APPROVED | CS | DATE | 7-30-24 |
| SCALE | 1" = 30' | DRAWING NUMBER        |    |          |    | REV. | 0       |
| PROJ  | 218356   | KPS-SLT-K11-900-1-003 |    |          |    |      |         |



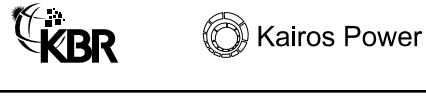
- NOTES:**
1. REFER TO DRAWING No. KPS-SLT-K11-900-1-002 FOR GENERAL NOTES AND LIST OF REFERENCE DRAWINGS.
  2. ALL COORDINATES SHOWN FOR BASED ON THE PLANT COORDINATE SYSTEM. REFER TO DWG. No. KPS-SLT-K11-900-1-002 FOR BENCHMARK INFORMATION.
  3. 10' WIDE CONCRETE ACCESS DRIVE SHALL BE CENTERED ON BUILDING OPENING.
  4. LIMITS OF STONE SURFACING TO BE DETERMINED BY THE OWNER

KBR ENGINEERING COMPANY  
 601 JEFFERSON STREET  
 HOUSTON, TX 77002  
 NM SCC NUMBER 1570407

ZAHHEERUDDIN A. MOHAMMEND  
 PROFESSIONAL ENGINEER - NEW MEXICO  
 LICENSE NO. 26909  
 EXPIRES 12/31/2025

**REVISION HISTORY**

| REV | DATE    | DESCRIPTION                      | BY  | CHK | APP |
|-----|---------|----------------------------------|-----|-----|-----|
| 1   | 9-24-24 | REV. UNIT 800 & CONC. WALK WIDTH | EJO | AS  | ZM  |
| 0   | 8-05-24 | ISSUED FOR CONSTRUCTION          | EJO | AS  | ZM  |



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**KPSW PROJECT SAGUARO  
 LAYOUT PLAN  
 SHEET #1**

|       |          |                       |    |          |      |      |         |
|-------|----------|-----------------------|----|----------|------|------|---------|
| DRAWN | EJO      | CHECKED               | AS | APPROVED | CS   | DATE | 7-30-24 |
| SCALE | 1" = 20' | DRAWING NUMBER        |    |          | REV. |      |         |
| PROJ  | 218356   | KPS-SLT-K11-900-1-004 |    |          |      |      |         |

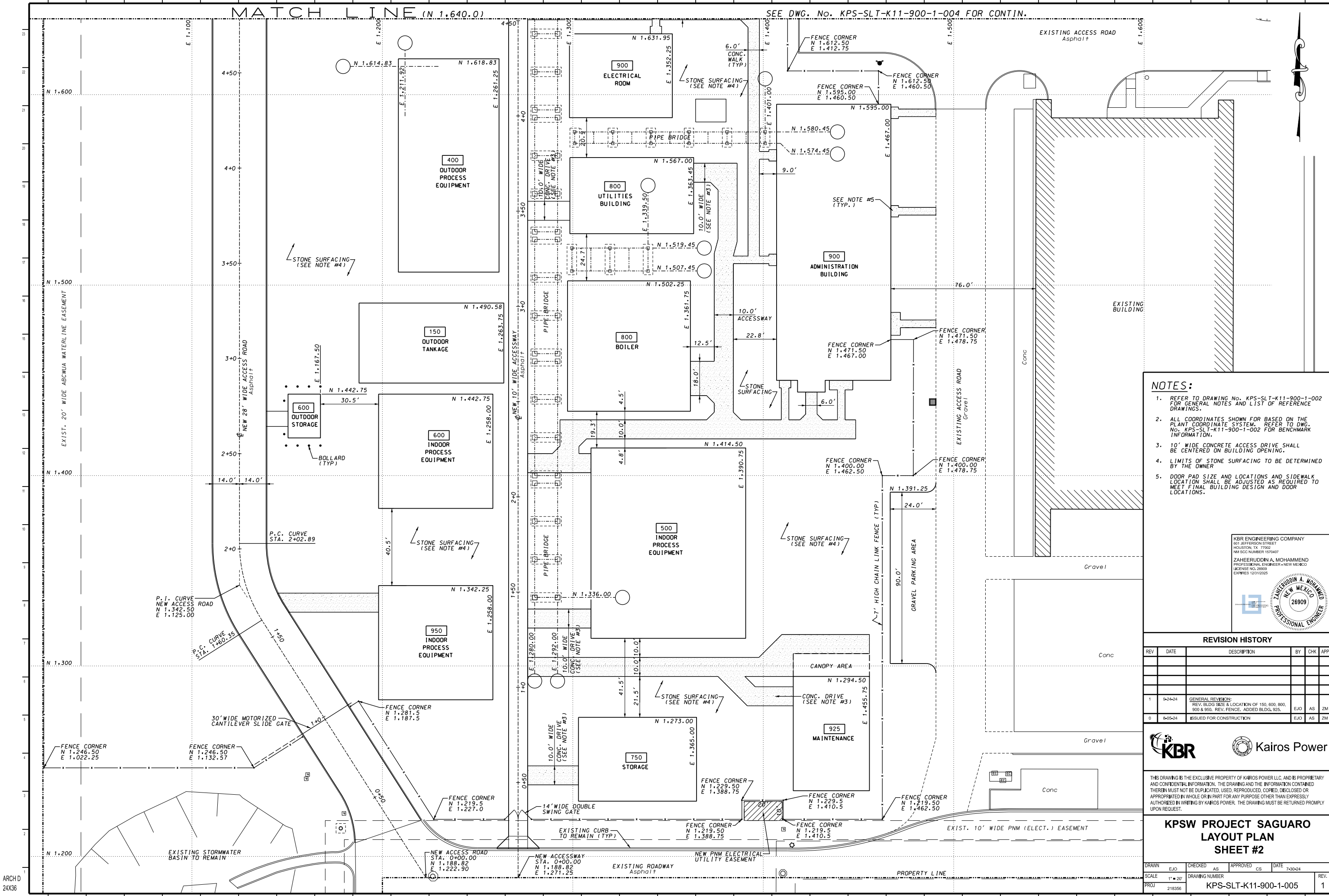
MATCH LINE (N 1,640.0)

SEE DWG. No. KPS-SLT-K11-900-1-005 FOR CONTIN.



MATCH LINE (N 1,640.0)

SEE DWG. No. KPS-SLT-K11-900-1-004 FOR CONTIN.



- NOTES:**
- REFER TO DRAWING No. KPS-SLT-K11-900-1-002 FOR GENERAL NOTES AND LIST OF REFERENCE DRAWINGS.
  - ALL COORDINATES SHOWN FOR BASED ON THE PLANT COORDINATE SYSTEM. REFER TO DWG. No. KPS-SLT-K11-900-1-002 FOR BENCHMARK INFORMATION.
  - 10' WIDE CONCRETE ACCESS DRIVE SHALL BE CENTERED ON BUILDING OPENING.
  - LIMITS OF STONE SURFACING TO BE DETERMINED BY THE OWNER
  - DOOR PAD SIZE AND LOCATIONS AND SIDEWALK LOCATION SHALL BE ADJUSTED AS REQUIRED TO MEET FINAL BUILDING DESIGN AND DOOR LOCATIONS.

KBR ENGINEERING COMPANY  
 601 JEFFERSON STREET  
 HOUSTON, TX 77002  
 NM SCC NUMBER 1570407

ZAHREERUDDIN A. MOHAMMEND  
 PROFESSIONAL ENGINEER - NEW MEXICO  
 LICENSE NO. 26909  
 EXPIRES 12/31/2025

**REVISION HISTORY**

| REV | DATE    | DESCRIPTION   | BY  | CHK | APP |
|-----|---------|---|-----|-----|-----|
| 1   | 9-24-24 | GENERAL REVISION:<br>REV. BLDG SIZE & LOCATION OF 150, 600, 800,<br>900 & 950. REV. FENCE. ADDED BLDG. 925. | EJO | AS  | ZM  |
| 0   | 8-05-24 | ISSUED FOR CONSTRUCTION   | EJO | AS  | ZM  |



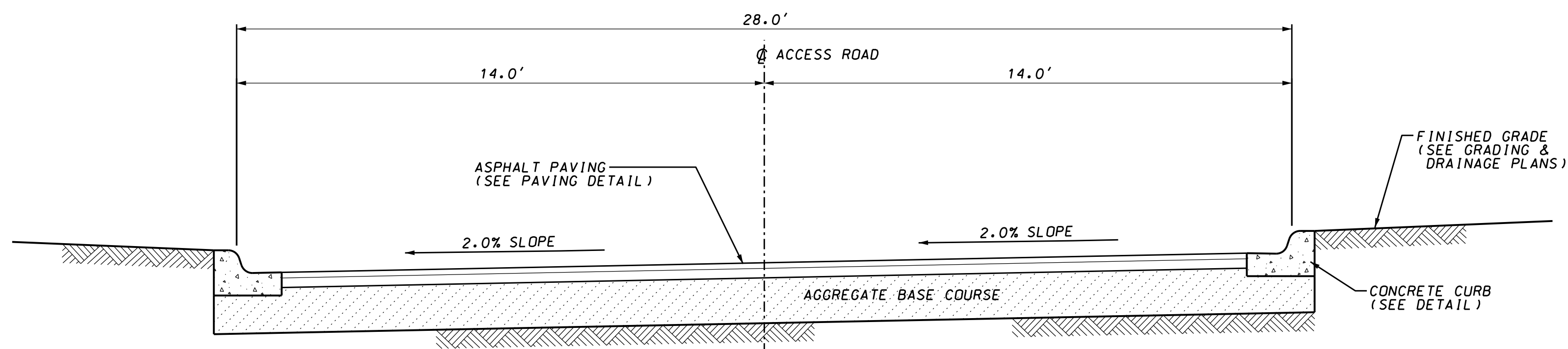
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**KPSW PROJECT SAGUARIO  
 LAYOUT PLAN  
 SHEET #2**

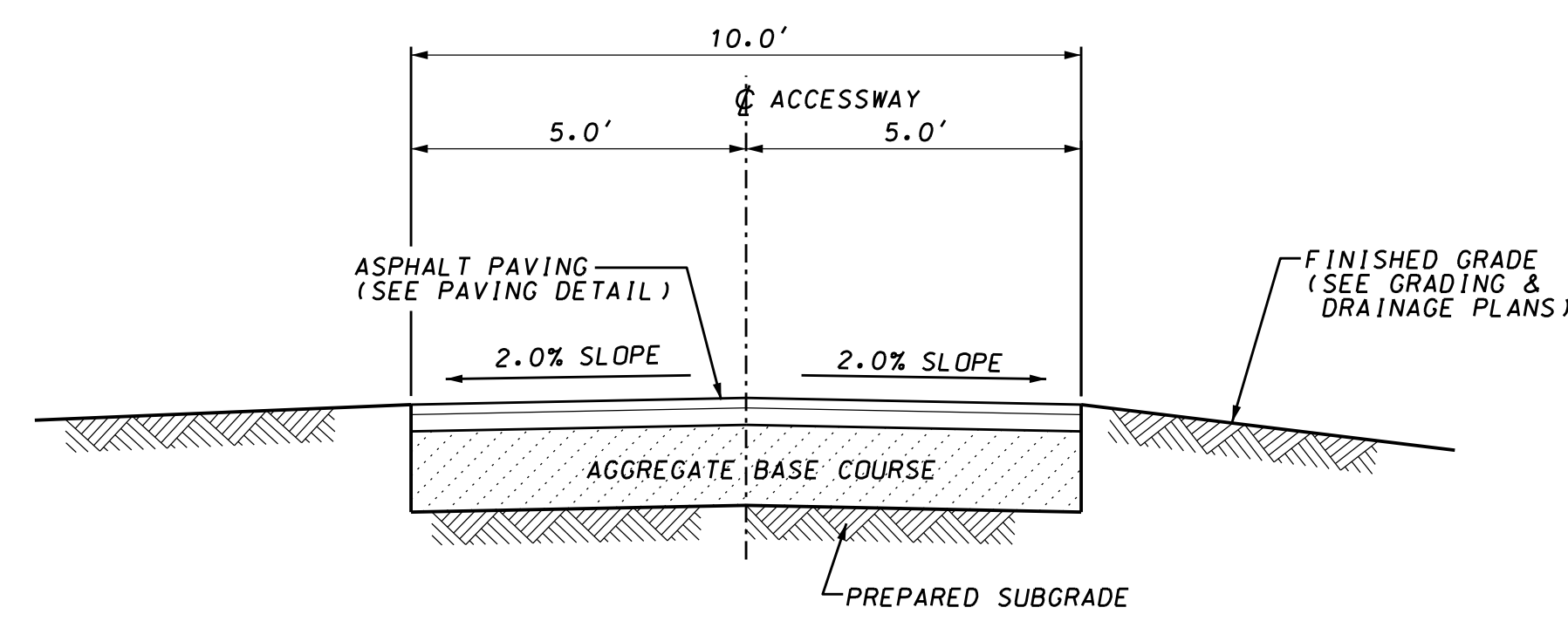
|       |          |                       |    |          |    |      |         |      |
|-------|----------|-----------------------|----|----------|----|------|---------|------|
| DRAWN | EJO      | CHECKED               | AS | APPROVED | CS | DATE | 7-30-24 |      |
| SCALE | 1" = 20' | DRAWING NUMBER        |    |          |    |      |         | REV. |
| PROJ  | 218356   | KPS-SLT-K11-900-1-005 |    |          |    |      |         | 1    |

**NOTES:**

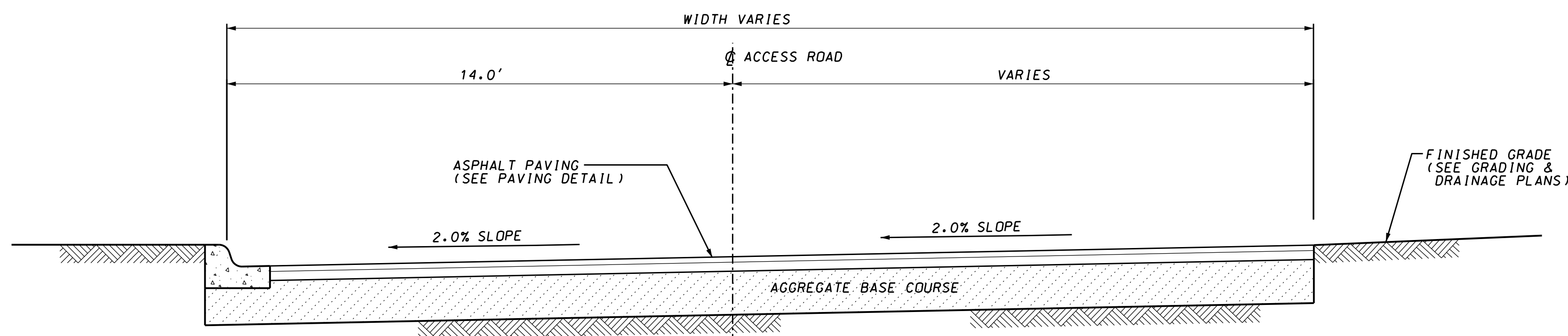
1. REFER TO DRAWING No. KPS-SLT-K11-900-1-002 FOR GENERAL NOTES AND LIST OF REFERENCE DRAWINGS.
2. REFER TO DRAWING No. KPS-SLT-K11-900-1-007 FOR TYPICAL SITE DETAILS.
3. ROAD CROSS SLOPE SHALL WARP AT STA. 0+40.0 AND AT STA. 12+50.0 TO MEET THE ELEVATION OF EXISTING PAVING TO REMAIN.



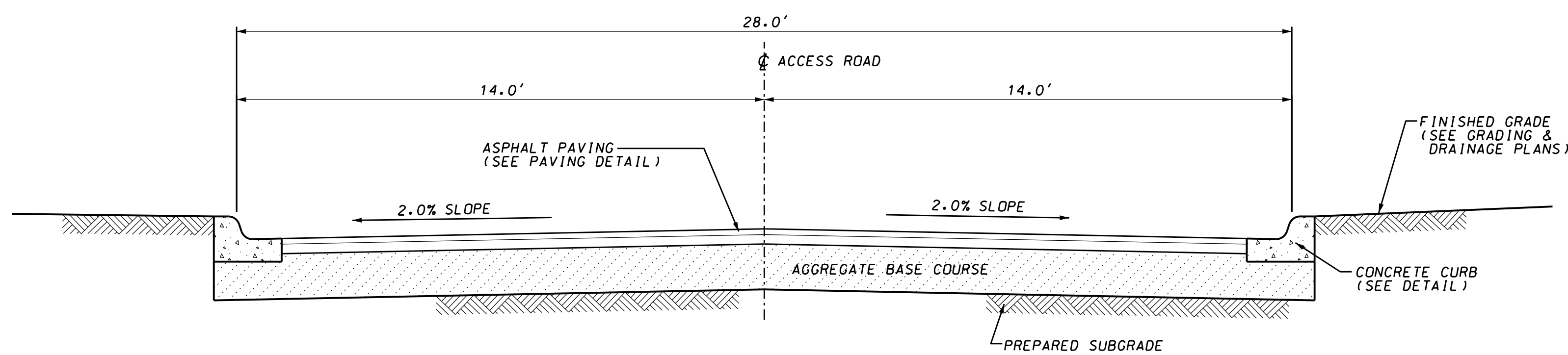
STA. 0+40.0 TO STA. 5+50.0  
**ACCESS ROAD CROSS SECTION**  
 SCALE: 1/4" = 1'-0" (SEE NOTE \*2)



**ACCESSWAY CROSS SECTION**  
 SCALE: 1/4" = 1'-0" (SEE NOTE \*2)

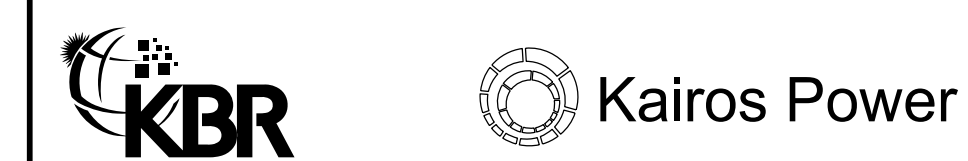


STA. 5+50.0 TO STA. 9+00.0  
**ACCESS ROAD CROSS SECTION**  
 SCALE: 1/4" = 1'-0" (SEE NOTE \*2)



STA. 9+50.0 TO STA. 12+50.0  
**ACCESS ROAD CROSS SECTION**  
 SCALE: 1/4" = 1'-0" (SEE NOTE \*2)

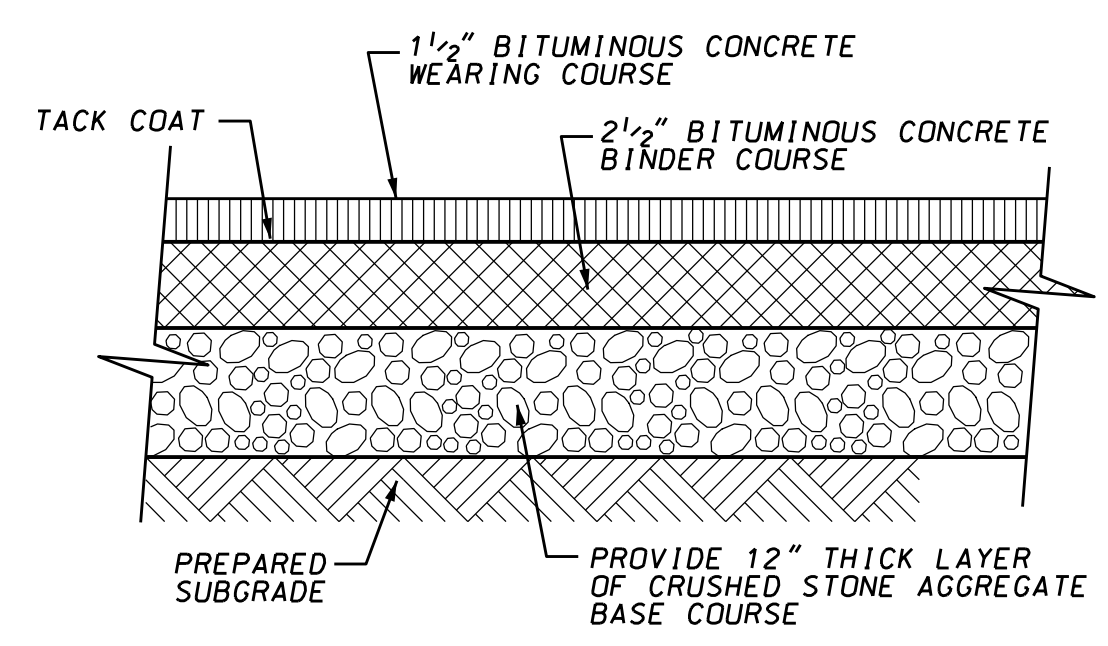
| REVISION HISTORY |         |                         |     |     |     |  |
|------------------|---------|-------------------------|-----|-----|-----|--|
| REV              | DATE    | DESCRIPTION             | BY  | CHK | APP |  |
| 0                | 8-05-24 | ISSUED FOR CONSTRUCTION | EJO | AS  | ZM  |  |



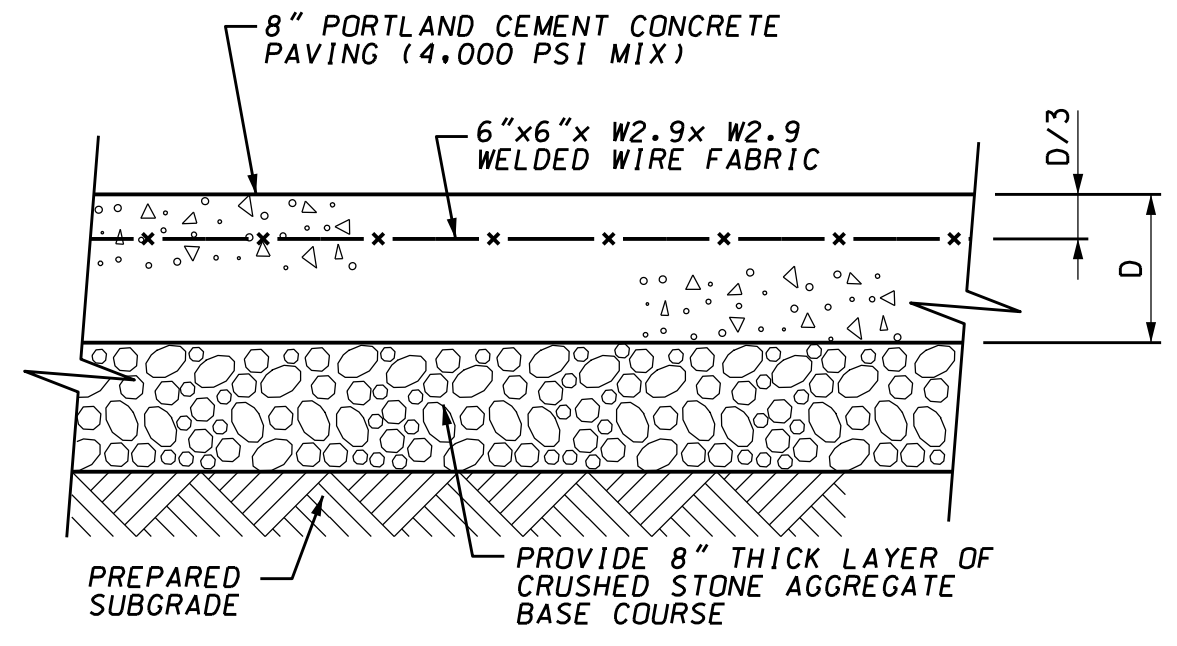
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**KPSW PROJECT SAGUARO  
 TYPICAL ROAD CROSS SECTIONS**

|       |          |                       |    |          |    |      |         |      |
|-------|----------|-----------------------|----|----------|----|------|---------|------|
| DRAWN | EJO      | CHECKED               | AS | APPROVED | CS | DATE | 7-30-24 |      |
| SCALE | AS NOTED | DRAWING NUMBER        |    |          |    |      |         | REV. |
| PROJ  | 218356   | KPS-SLT-K11-900-1-006 |    |          |    |      | 0       |      |



**TYPE 1**  
ASPHALT PAVING

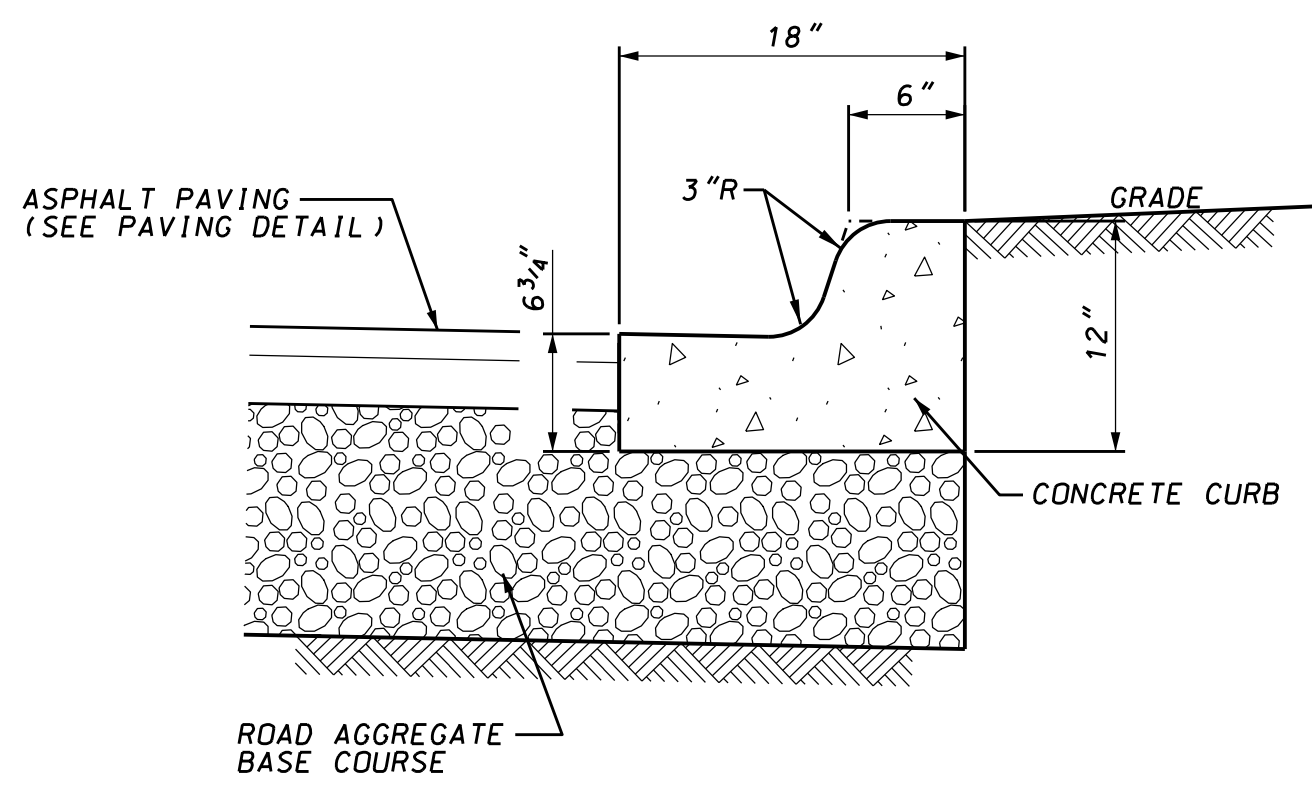


**TYPE 2**  
CONCRETE PAVING

**NOTES:**

1. THE SUBGRADE SHOULD BE PROOF-ROLLED TO DETECT ANY SOFT OR LOOSE SURFACE ZONES AND TO COMPACT ON GRADE PRIOR TO SPREADING THE AGGREGATE BASE COURSE. ANY UNSTABLE SOILS WHICH ARE DETECTED BY THE PROOF-ROLLING, AND WHICH CANNOT BE STABILIZED BY ADDITIONAL COMPACTION, SHOULD BE EXCAVATED TO STABLE SOIL OR TO A MAXIMUM DEPTH OF 2 FEET, WHICHEVER OCCURS FIRST AND REPLACED WITH COMPACTED STRUCTURAL FILL. METHODS & MATERIALS OF CONSTRUCTION SHALL BE PER THE PROJECT SPECIFICATION.
2. ASPHALT PAVING SHALL BE PLACED IN ACCORDANCE WITH PROJECT SPECIFICATIONS. USE OF NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT) MAY BE USED AS AN APPROVED ALTERNATE.

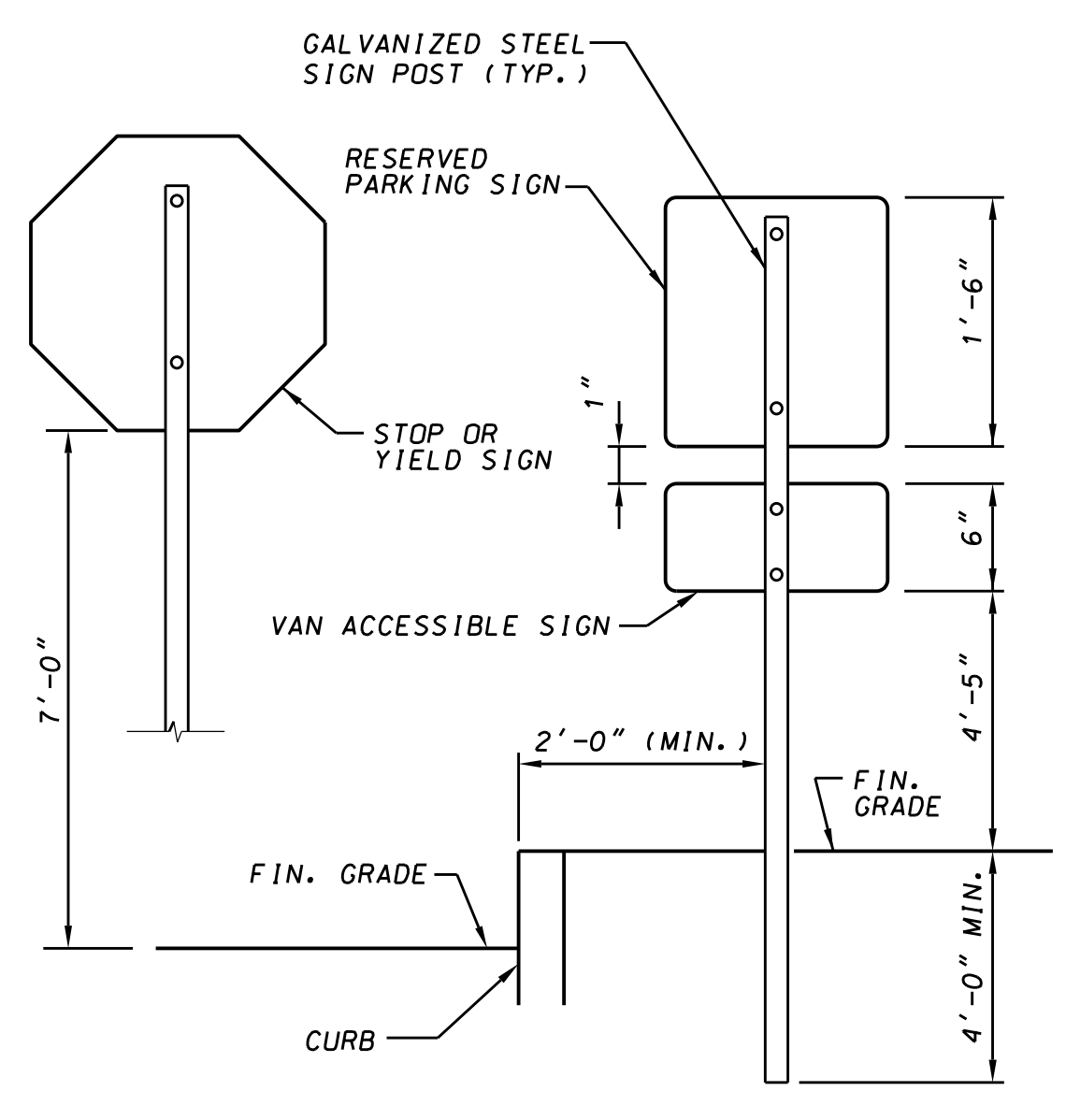
**TYPICAL PAVING DETAILS**  
NOT TO SCALE



**CONCRETE CURB DETAIL**  
NOT TO SCALE

**NOTES:**

1. FOR CURB ADJACENT TO ASPHALT PAVING, PROVIDE CONTRACTION JOINTS AT 12" MAXIMUM SPACING. CONTRACTION JOINTS SHALL BE EITHER SAWED OR TOOLED TO A MINIMUM DEPTH OF 1" DEEP.
2. EDGES SHALL BE TOOLED WITH A 3/8" EDGING TOOL.
3. PROVIDE PREFORMED EXPANSION JOINT MATERIAL BETWEEN CURB AND SIDEWALK OR CONCRETE DRIVEWAYS, WHERE APPLICABLE.



**ELEVATION**  
**STANDARD SIGN DETAILS**  
NOT TO SCALE

**NOTES:**

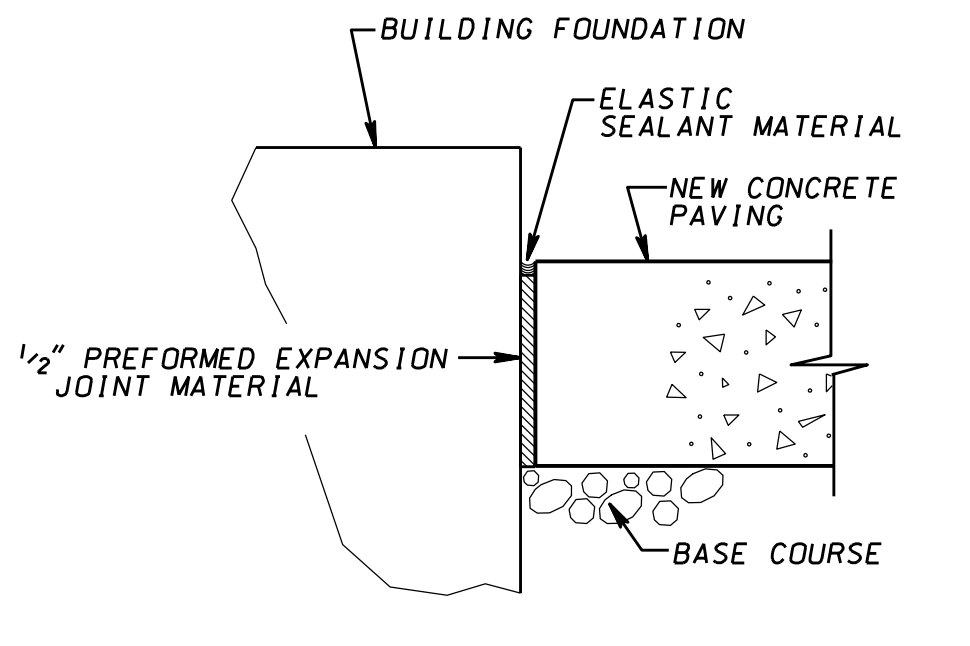
1. REFER TO DRAWING No. KPS-SLT-K11-900-1-002 FOR GENERAL NOTES AND LIST OF REFERENCE DRAWINGS.

**SIGNS:**

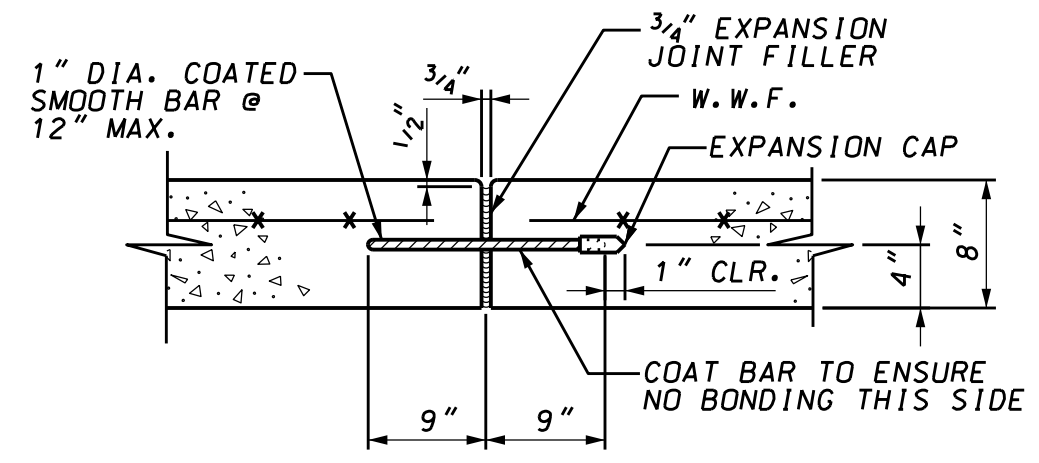
1. ALL SIGNS SHALL BE REFLECTORIZED.
2. ALL POSTS SHALL BE OF ADEQUATE LENGTH TO MEET THE REQUIREMENTS FOR ERECTION AS STATED IN THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS".
3. TWO PIECE STEEL POSTS SHALL BE EMBEDDED 3'-8" MIN. ONE PIECE STEEL POST SHALL BE EMBEDDED 3'-6" MAX.
4. ALL STEEL POSTS AND BRACKETS SHALL BE CUT, BENT AND HOLES PUNCHED AND DRILLED BEFORE GALVANIZING.
5. BOLTS SHALL NOT PROTRUDE MORE THAN 3/4" BEYOND THE NUT WHEN TIGHT BUT SHALL ENGAGE 1/4" THREADS IN THE NUT.
6. THE MINIMUM VERTICAL CLEARANCE REQUIREMENTS FOR SIGNS ARE:  
EDGE OF PAVEMENT TO BOTTOM OF SIGN AS PER SECTION 2A-23 OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS".  
GROUNDLINE TO BOTTOM OF SIGN SHALL BE 7 FEET.  
FOR SINGLE POST INSTALLATIONS, THE MINIMUM DISTANCE FROM GROUNDLINE TO THE TOP OF SIGN MUST BE 9 FEET.
7. ALL SIGNS DISPLACED BY CONSTRUCTION SHALL BE RESET OR RELOCATED TO AN APPROPRIATE LOCATION IF SIGN IS STILL APPLICABLE.
8. ANY NEW SIGN OR EXISTING SIGN IN THE PROJECT AREA THAT IS INCONSISTANT WITH THE NORMAL FLOW OF TRAFFIC SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER.

**PAVEMENT STRIPPING:**

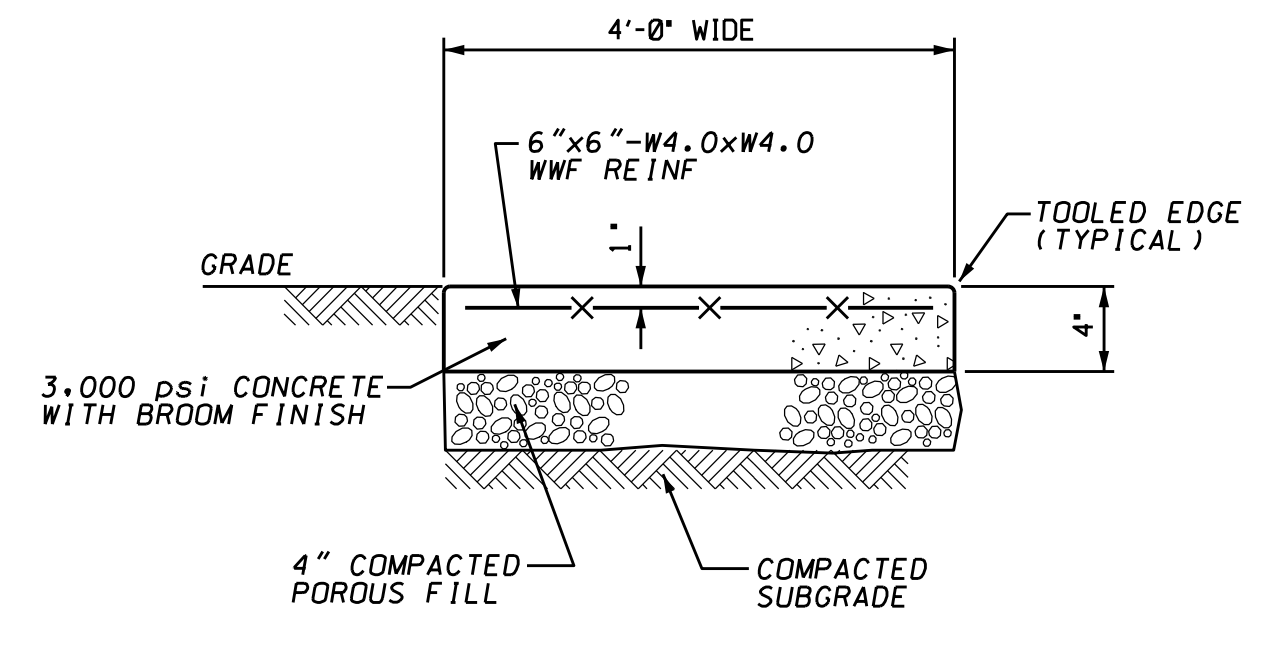
1. PAVEMENT MARKING COLORS - REQUIRED ACCESSIBLE PARKING SPACES, ACCESS AISLE STRIPING AND OTHER OPTIONAL PAVEMENT MARKINGS, SUCH AS THE INTERNATIONAL ACCESS SYMBOL, SHALL BE PAINTED A REFLECTIVE "BRIGHT BLUE".
2. PEDESTRIAN CROSSING LINES SHALL BE SOLID WHITE LINES MARKING BOTH EDGES OF THE CROSSWALK. LINES SHALL BE NOT LESS THAN SIX (6") INCHES WIDE AND NOT FURTHER THAN SIX (6") FEET APART. LINES ON BOTH SIDES OF THE CROSSWALK SHALL EXTEND ACROSS THE FULL LENGTH OF THE PAVEMENT. WHEN A CROSSWALK IS INDICATED AT A STOP SIGN THERE SHALL BE A FOUR (4') FEET GAP BETWEEN THE STOP LINE AND THE PEDESTRIAN CROSSING.



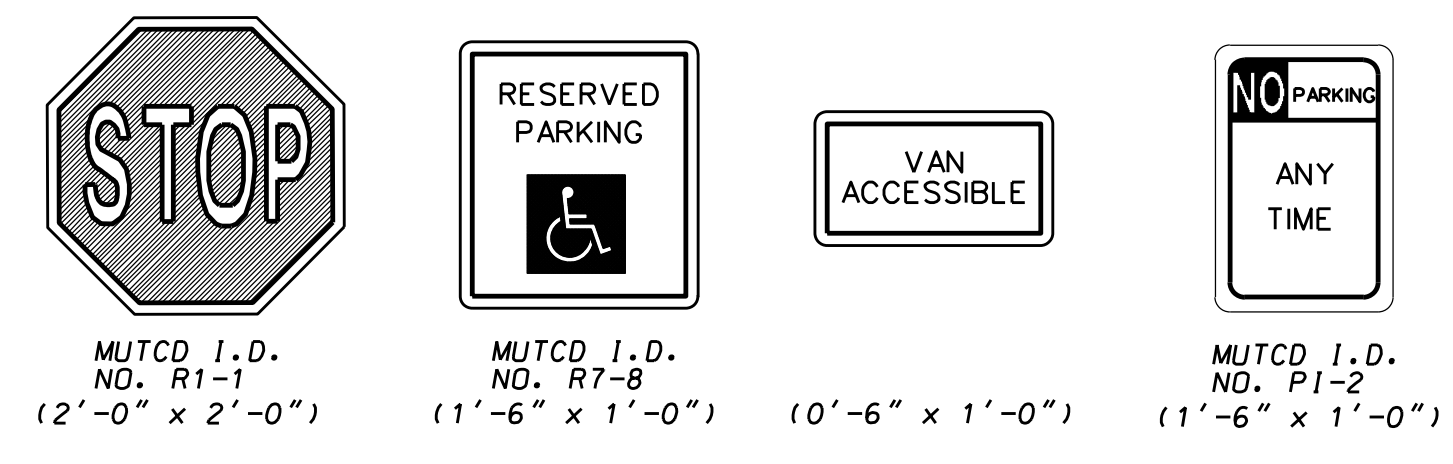
**TYPICAL ISOLATION JOINT DETAIL**  
NOT TO SCALE



**TYPICAL EXPANSION or CONSTRUCTION JOINT DETAIL**  
NOT TO SCALE



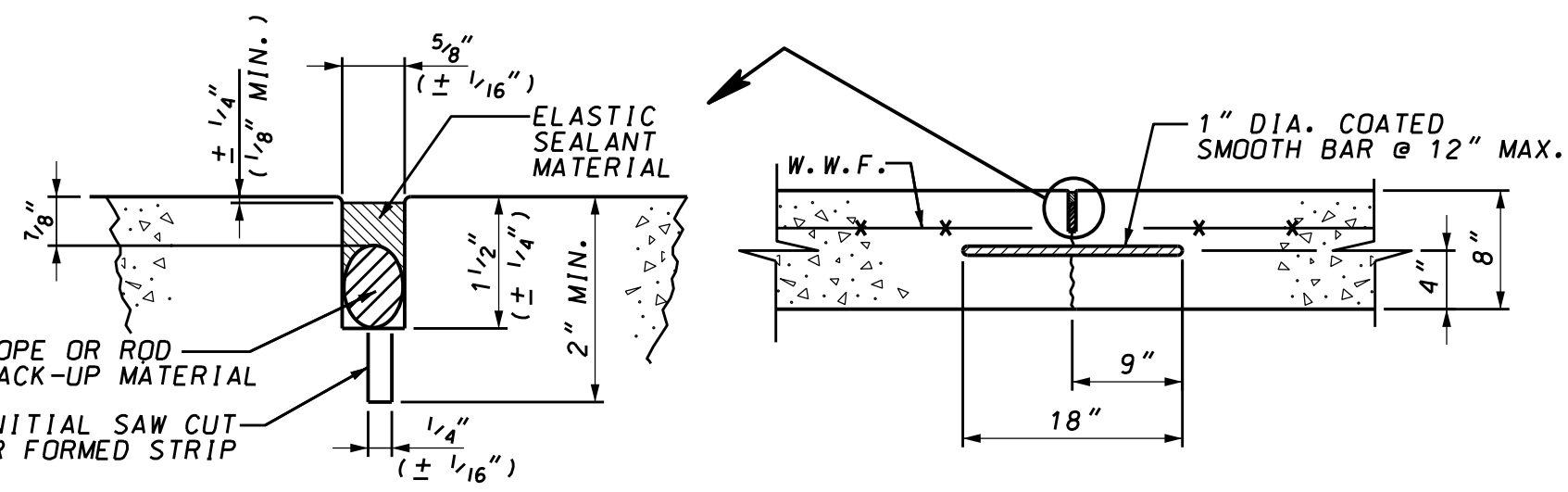
**TYPICAL SIDEWALK DETAIL**  
NOT TO SCALE



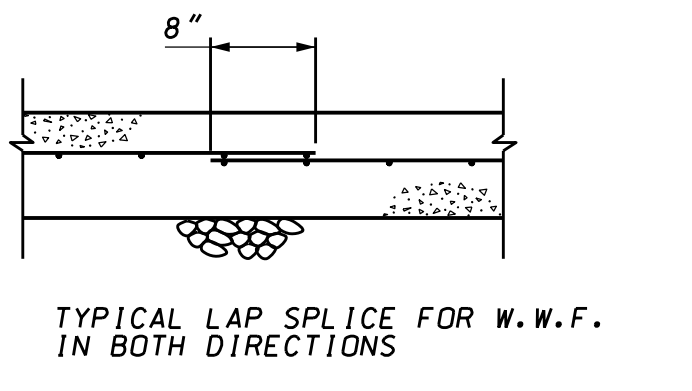
**NOTE:**

SIGNAGE SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE "AMERICANS WITH DISABILITIES ACT".

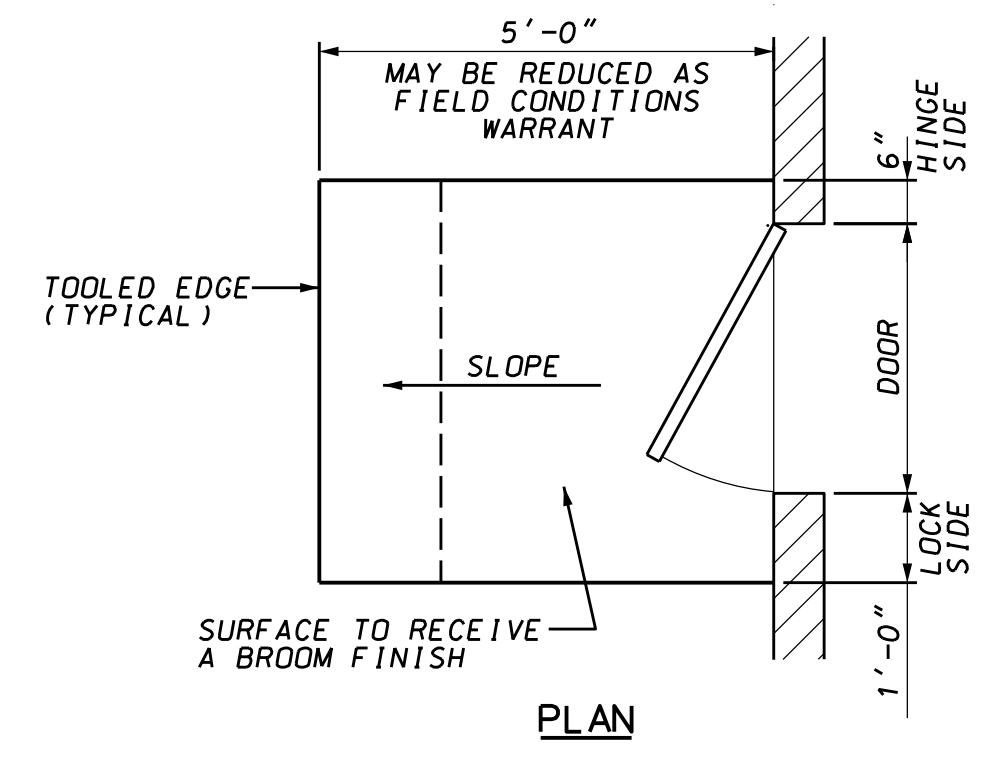
**TYPICAL SIGN DETAILS**  
NOT TO SCALE



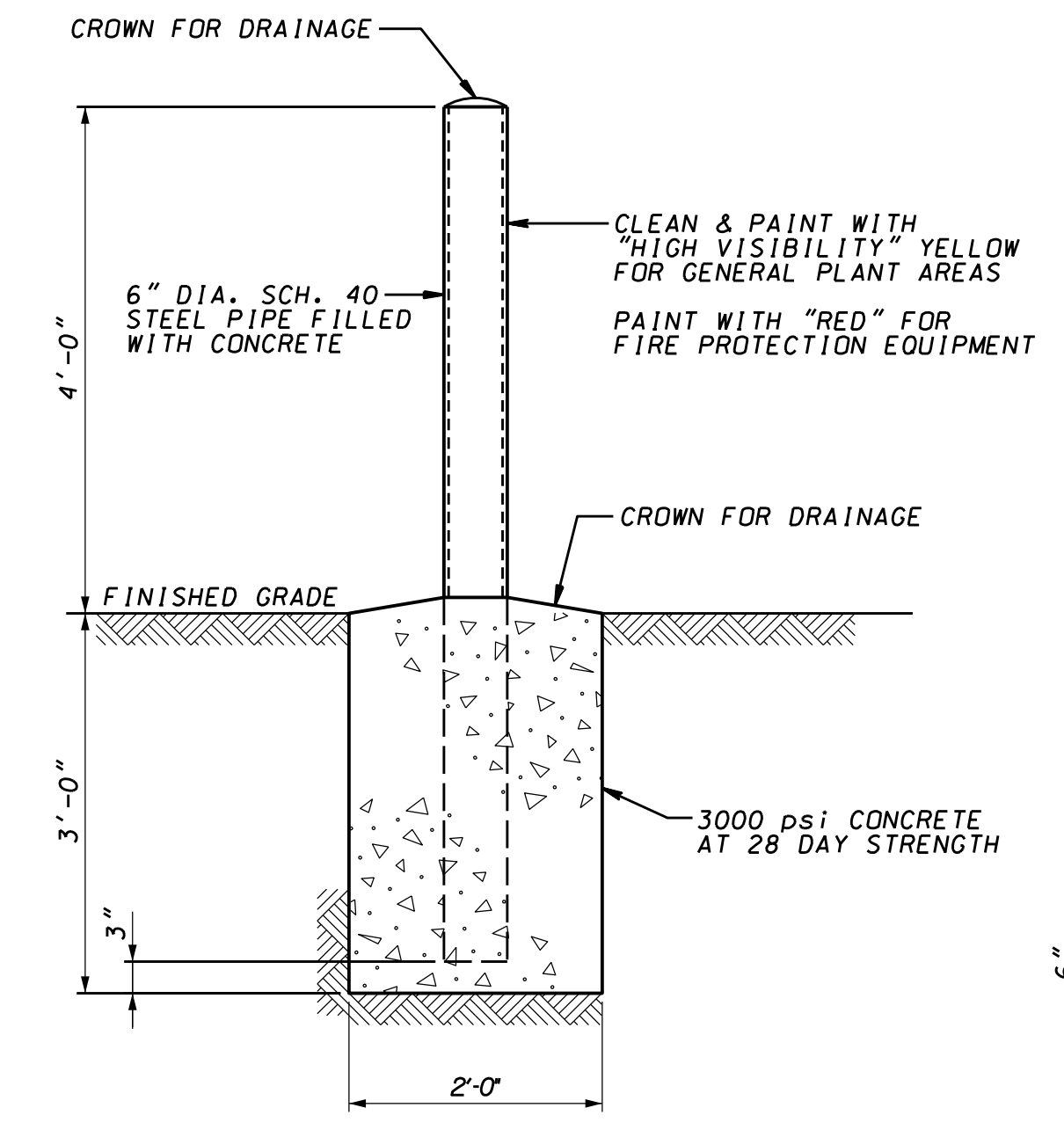
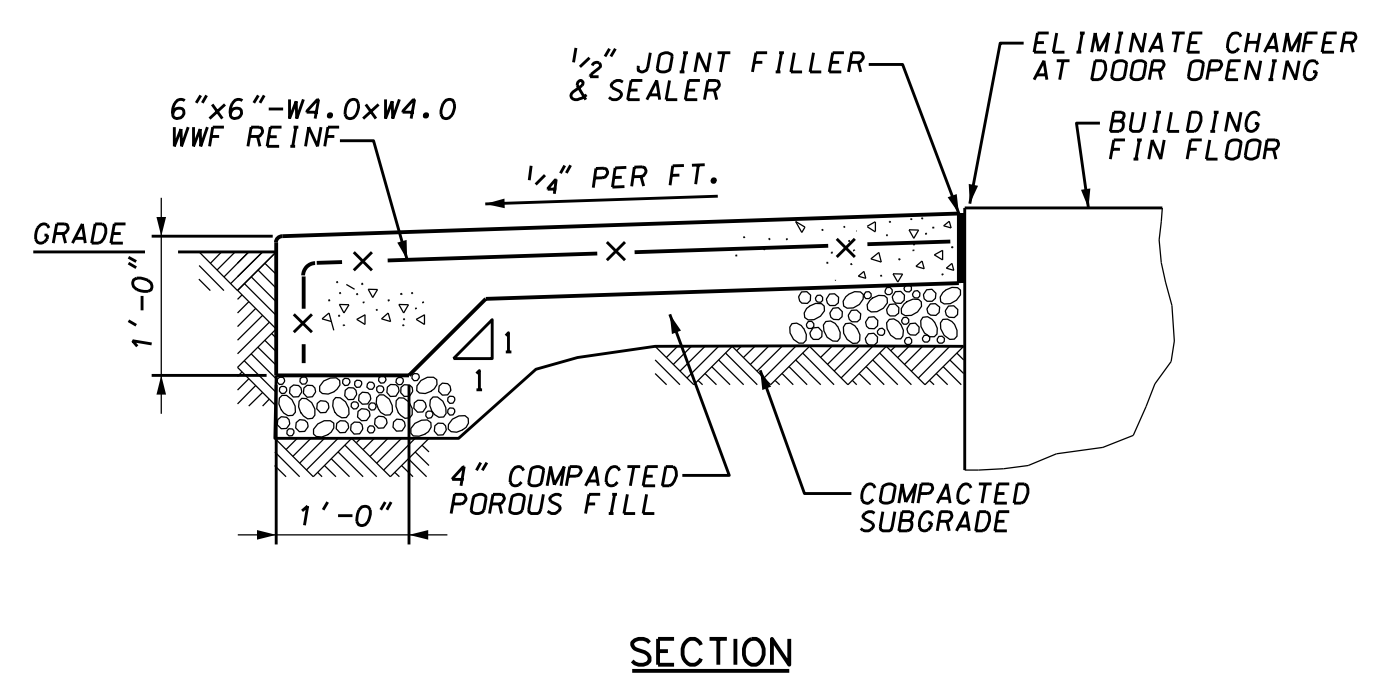
**TYPICAL CONTRACTION or CONTROL JOINT DETAIL**  
NOT TO SCALE



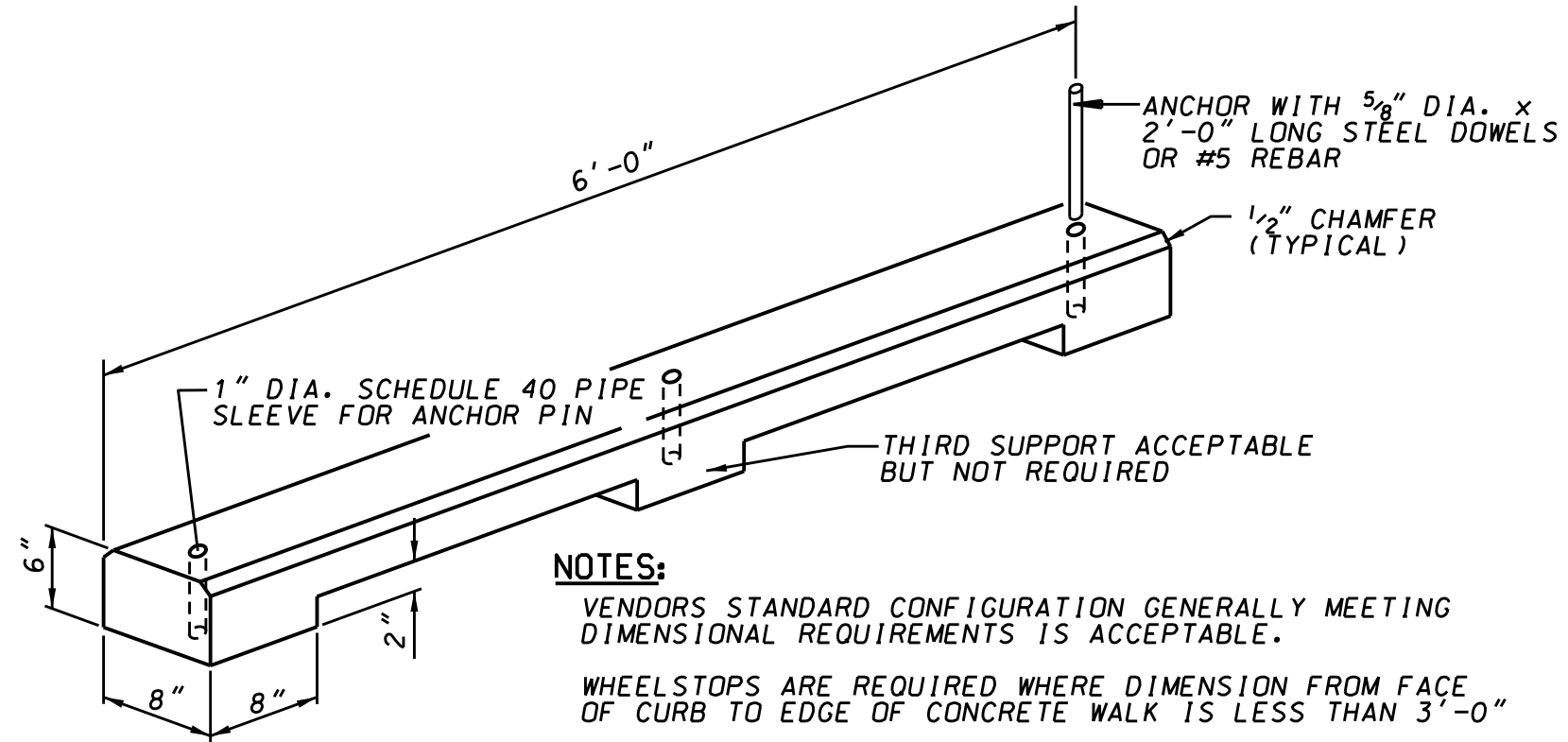
**TYPICAL LAP DETAIL FOR WELDED WIRE FABRIC**  
NOT TO SCALE



**TYPICAL DOOR PAD DETAIL**  
NOT TO SCALE



**GUARD POST (BOLLARD) DETAIL**  
NOT TO SCALE

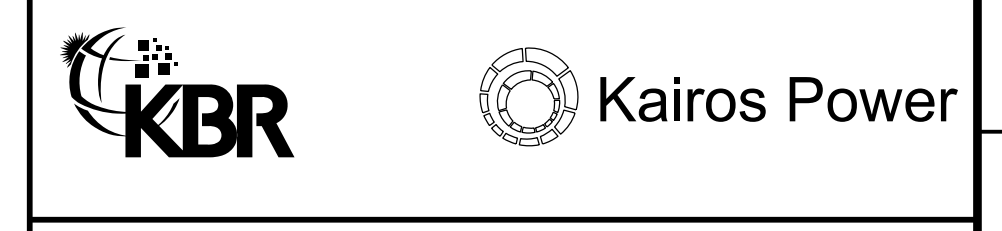


**CONCRETE WHEELSTOP DETAIL**  
NOT TO SCALE

**NOTES:**

VENDORS STANDARD CONFIGURATION GENERALLY MEETING DIMENSIONAL REQUIREMENTS IS ACCEPTABLE.  
WHEELSTOPS ARE REQUIRED WHERE DIMENSION FROM FACE OF CURB TO EDGE OF CONCRETE WALK IS LESS THAN 3'-0"

| REVISION HISTORY |         |                         |     |         |
|------------------|---------|-------------------------|-----|---------|
| REV              | DATE    | DESCRIPTION             | BY  | CHK APP |
| 0                | 8-05-24 | ISSUED FOR CONSTRUCTION | EJO | AS ZM   |

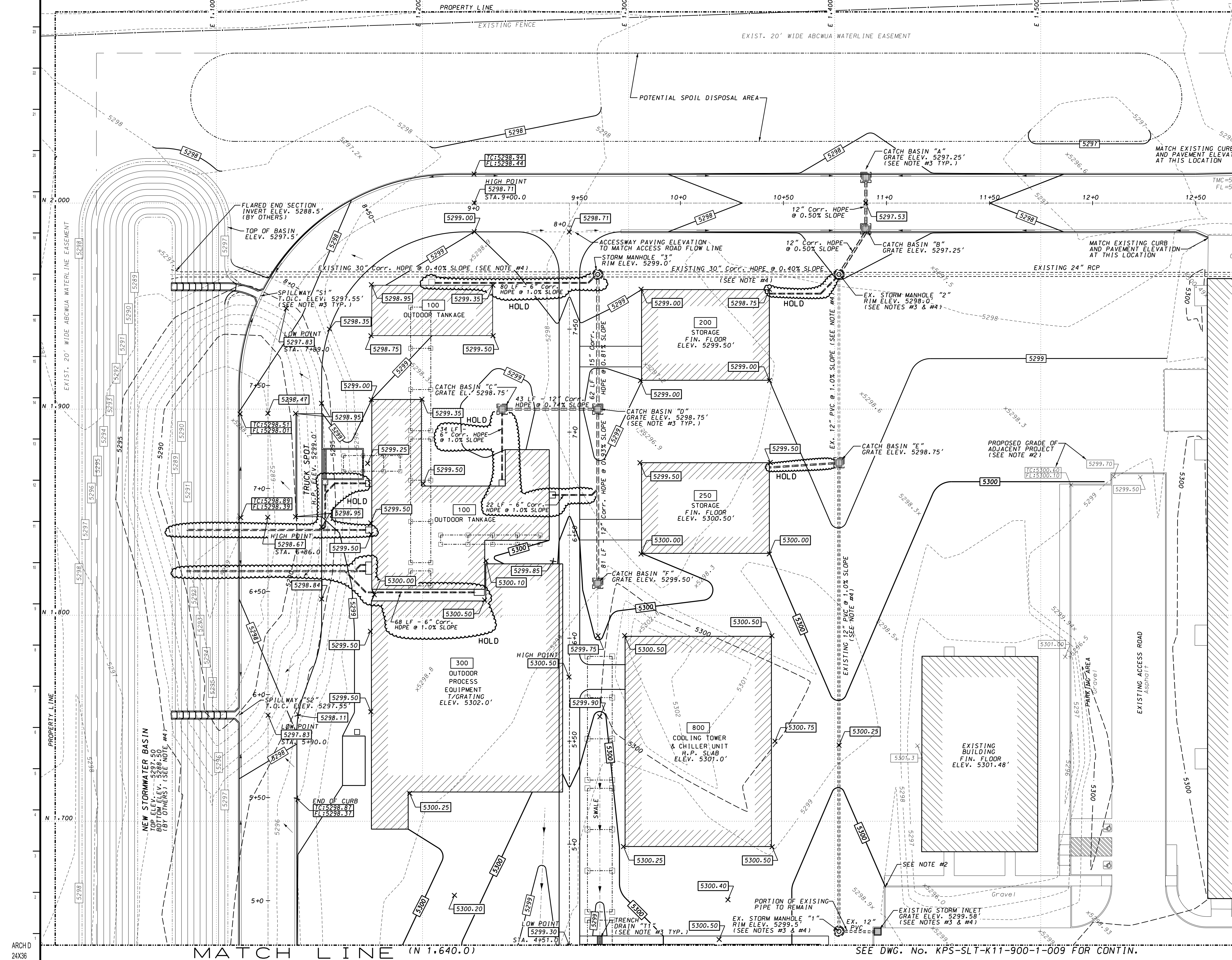


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**KPSW PROJECT SAGUARO**  
**TYPICAL SITE DETAILS**

|       |          |                       |    |          |    |      |         |
|-------|----------|-----------------------|----|----------|----|------|---------|
| DRAWN | EJO      | CHECKED               | AS | APPROVED | CS | DATE | 7-30-24 |
| SCALE | AS NOTED | DRAWING NUMBER        |    |          |    |      |         |
| PROJ  | 218356   | KPS-SLT-K11-900-1-007 |    | REV.     | 0  |      |         |





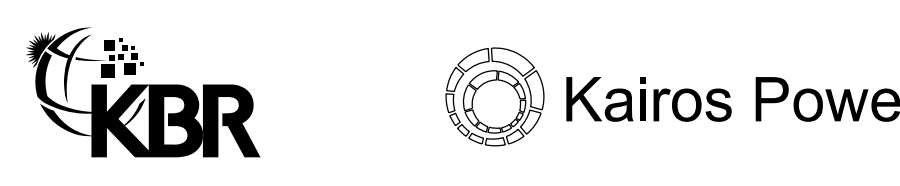
- NOTES:**
- REFER TO DRAWING No. KPS-SLT-K11-900-1-002 FOR GENERAL NOTES AND LIST OF REFERENCE DRAWINGS.
  - TOPOGRAPHIC SURVEY WAS PERFORMED DURING SITE CONSTRUCTION OF ADJACENT BUILDINGS. EXISTING GRADES MAY NOT EXACTLY REFLECT FIELD CONDITIONS. SEE NOTE #4 ON DWG. No. KPS-SLT-K11-900-1-002.
  - REFER TO DRAWING No. KPS-SLT-K11-900-1-010 FOR DRAINAGE STRUCTURE SCHEDULE AND DETAILS.
  - NEW RETENTION POND AND 30" PIPING WILL BE INSTALLED BY OTHERS. RETENTION POND DIMENSIONS, PIPE SIZE AND SLOPE SHOWN ARE TAKEN FROM CITY OF ALBUQUERQUE (COA) APPROVED GRADING AND DRAINAGE PLAN, SHEET No. GR-1 BY TIERRA WEST, LLC OF ALBUQUERQUE, NM.
  - RETENTION POND SURFACE DISTURBED BY SPILLWAY OR CULVERT INSTALLATION SHALL BE STABILIZED PER COA SPECIFICATION 1013 (SEEDING).
  - CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STORM RUN-OFF ON SITE DURING CONSTRUCTION.

**HOLD LOG:**

01 FINAL CONNECTION DETAILS  
 SECONDARY CONTAINMENT CLEAN WATER DRAINAGE  
 MULTIPLE LOCATIONS

**REVISION HISTORY**

| REV | DATE    | DESCRIPTION             | BY  | CHK | APP |
|-----|---------|-------------------------|-----|-----|-----|
| 0   | 8-05-24 | ISSUED FOR CONSTRUCTION | EJO | AS  | ZM  |



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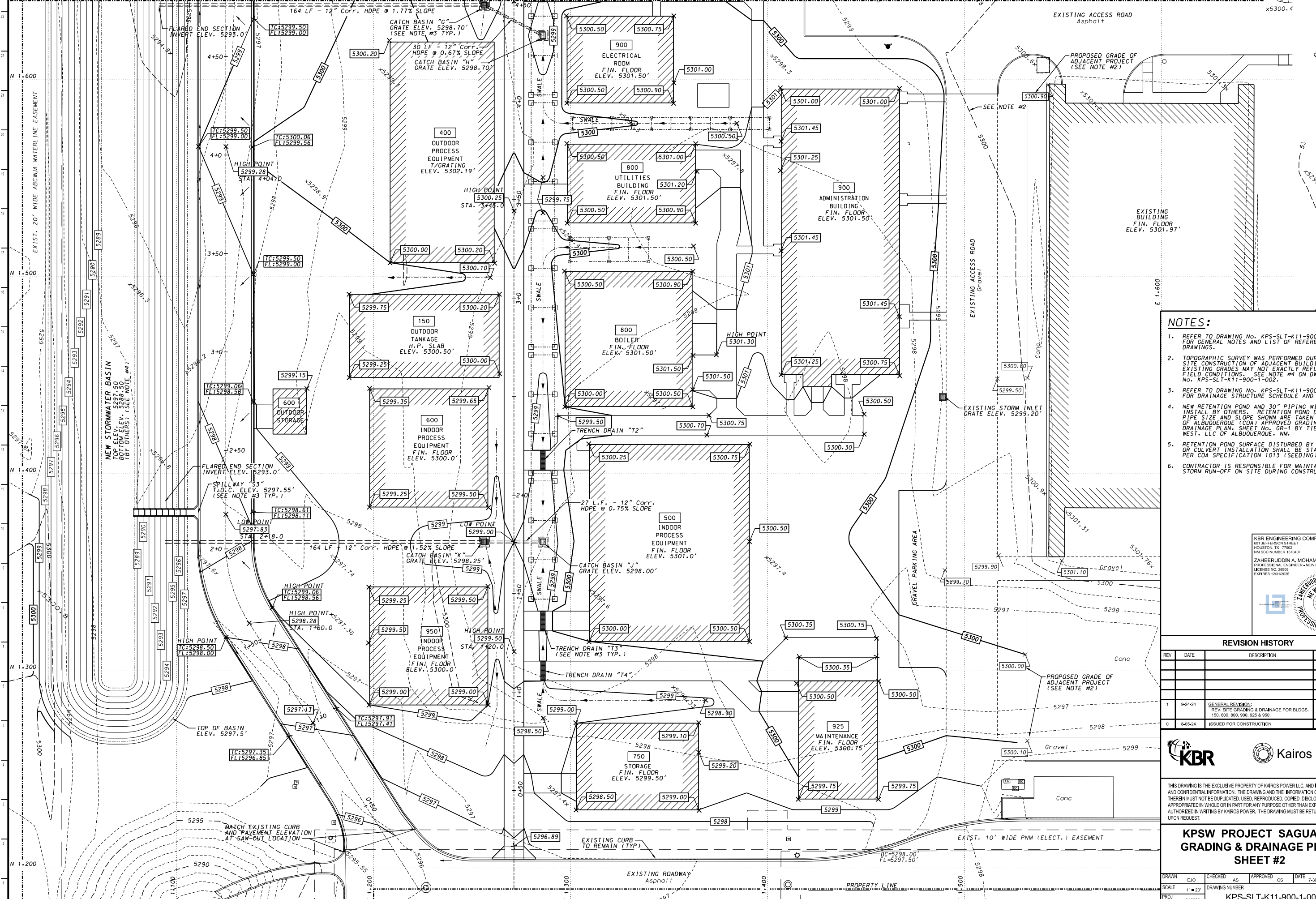
**KPSW PROJECT SAGUARIO  
 GRADING & DRAINAGE PLAN  
 SHEET #1**

|       |          |                       |    |          |    |      |         |      |
|-------|----------|-----------------------|----|----------|----|------|---------|------|
| DRAWN | EJO      | CHECKED               | AS | APPROVED | CS | DATE | 7-30-24 |      |
| SCALE | 1" = 20' | DRAWING NUMBER        |    |          |    |      |         | REV. |
| PROJ  | 218356   | KPS-SLT-K11-900-1-008 |    |          |    |      |         | 0    |

ARCH D  
24X36

SEE DWG. No. KPS-SLT-K11-900-1-009 FOR CONTIN.

MATCH LINE (N 1,640.0)



KBR ENGINEERING COMPANY  
 601 JEFFERSON STREET  
 HOUSTON, TX 77002  
 NM SCC NUMBER 1570407

ZAHEDIJADIN A. MOHAMMAD  
 PROFESSIONAL ENGINEER-NEW MEXICO  
 LICENSE NO. 26909  
 EXPIRES 12/31/2025

**REVISION HISTORY**

| REV | DATE    | DESCRIPTION   | BY  | CHK | APP |
|-----|---------|---|-----|-----|-----|
| 1   | 9-24-24 | GENERAL REVISION:<br>REV. SITE GRADING & DRAINAGE FOR BLDGS.<br>150, 800, 900, 925 & 950. | EJO | AS  | ZM  |
| 0   | 8-05-24 | ISSUED FOR CONSTRUCTION   | EJO | AS  | ZM  |



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**KPSW PROJECT SAGUARO  
 GRADING & DRAINAGE PLAN  
 SHEET #2**

|       |          |                       |    |          |    |      |         |      |
|-------|----------|-----------------------|----|----------|----|------|---------|------|
| DRAWN | EJO      | CHECKED               | AS | APPROVED | CS | DATE | 7-30-24 |      |
| SCALE | 1" = 20' | DRAWING NUMBER        |    |          |    |      |         | REV. |
| PROJ  | 218356   | KPS-SLT-K11-900-1-009 |    |          |    |      |         | 1    |

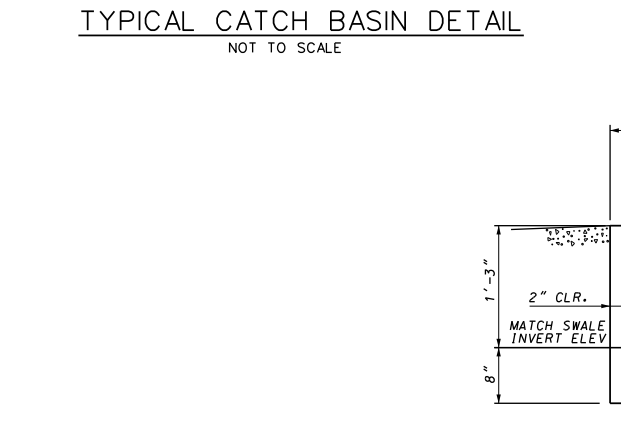
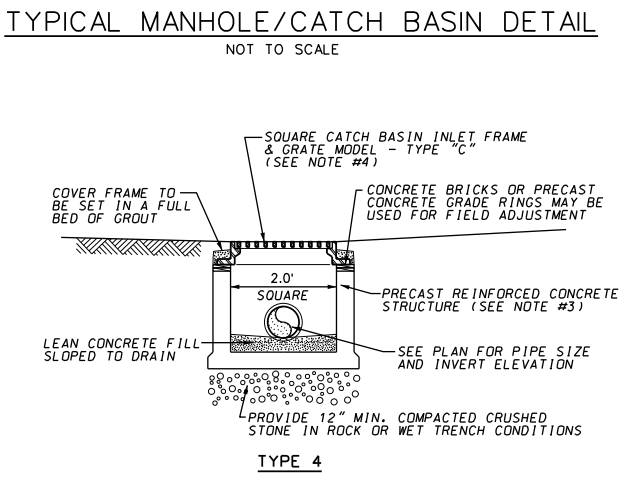
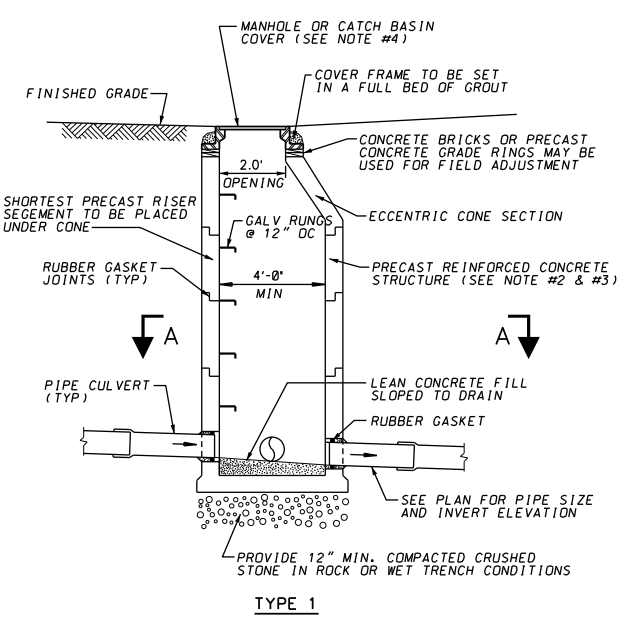
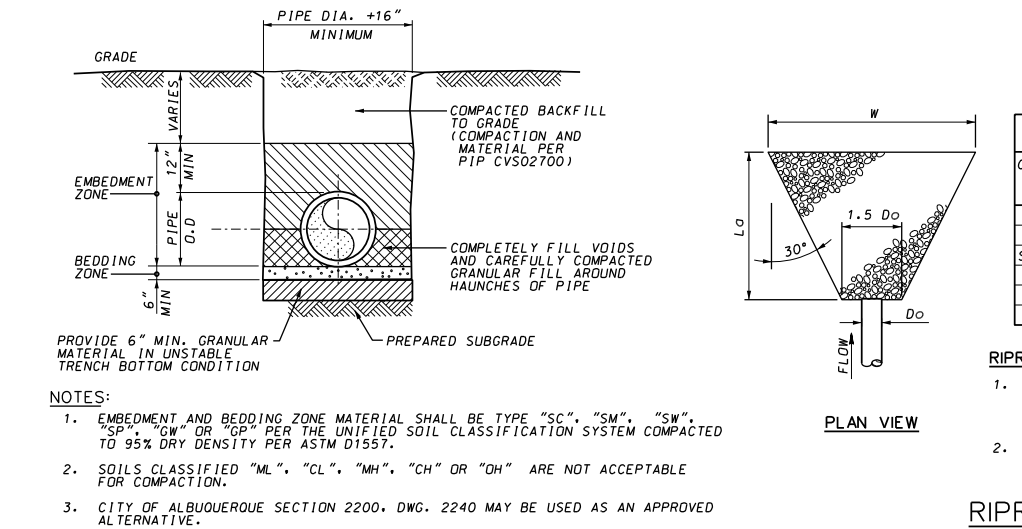


| STORM MANHOLE SCHEDULE |      |       |          |        |          |          |             |          |             |               |                           |
|------------------------|------|-------|----------|--------|----------|----------|-------------|----------|-------------|---------------|---------------------------|
| NAME                   | TYPE | COVER | LOCATION |        | RIM ELEV | INLET    |             | OUTLET   |             | PLAN DWG. No. | REMARKS                   |
|                        |      |       | NORTH    | EAST   |          | PIPE DIA | INVERT ELEV | PIPE DIA | INVERT ELEV |               |                           |
| 1                      | 2    | A     | 1646.6   | 1402.0 | 5299.50  | 12"      | 5292.90     | 12"      | 5292.85     | 900-1-008     | INSTALLED BY OTHERS       |
| 2                      | 1    | A     | 1965.4   | 1402.0 | 5298.00  | 12"      | 5289.85     |          |             | 900-1-008     | INSTALLED BY OTHERS       |
|                        |      |       |          |        |          | 12"      | 5294.20     |          |             |               | NEW CULVERT @ EX. MANHOLE |
|                        |      |       |          |        |          | 24"      | 5289.90     | 30"      | 5289.80     |               | INSTALLED BY OTHERS       |
| 3                      | 5    | A     | 1965.4   | 1285.0 | 5299.00  | 8"       | 5297.00     |          |             | 900-1-008     | NEW MANHOLE               |
|                        |      |       |          |        |          | 15"      | 5295.25     |          |             |               |                           |
|                        |      |       |          |        |          | 30"      | 5289.34     | 30"      | 5289.32     |               | INSTALLED BY OTHERS       |

| CATCH BASIN SCHEDULE |      |       |          |        |            |          |             |          |             |               |                             |
|----------------------|------|-------|----------|--------|------------|----------|-------------|----------|-------------|---------------|-----------------------------|
| NAME                 | TYPE | COVER | LOCATION |        | GRATE ELEV | INLET    |             | OUTLET   |             | PLAN DWG. No. | REMARKS                     |
|                      |      |       | NORTH    | EAST   |            | PIPE DIA | INVERT ELEV | PIPE DIA | INVERT ELEV |               |                             |
| A                    | 3    | D     | 2012.5   | 1415.0 | 5297.25    | 12"      | 5294.55     | 12"      | 5294.75     | 900-1-008     |                             |
| B                    | 3    | D     | 1987.5   | 1415.0 | 5297.25    | 12"      | 5294.55     | 12"      | 5294.50     | 900-1-008     |                             |
| C                    | 4    | C     | 1900.0   | 1238.5 | 5298.75    | 6"       | 5296.75     | 12"      | 5296.25     | 900-1-008     |                             |
| D                    | 4    | C     | 1900.0   | 1285.0 | 5298.75    | 12"      | 5296.00     | 15"      | 5295.75     | 900-1-008     |                             |
| E                    | 4    | C     | 1874.0   | 1402.0 | 5298.75    | 12"      | 5290.75     | 12"      | 5290.70     | 900-1-008     | NEW STRUCTURE @ EX. CULVERT |
| F                    | 4    | C     | 1815.5   | 1285.0 | 5299.50    |          |             | 12"      | 5297.00     | 900-1-008     |                             |
| G                    | 4    | C     | 1637.5   | 1256.3 | 5298.70    | 12"      | 5296.20     | 12"      | 5296.20     | 900-1-009     |                             |
| H                    | 4    | C     | 1622.0   | 1286.0 | 5298.70    | 12"      | 5296.00     | 12"      | 5295.90     | 900-1-009     |                             |
| J                    | 4    | C     | 1365.0   | 1256.3 | 5298.00    |          |             | 12"      | 5295.75     | 900-1-009     |                             |
| K                    | 4    | C     | 1365.0   | 1286.0 | 5298.25    | 12"      | 5296.00     | 12"      | 5295.50     | 900-1-009     |                             |

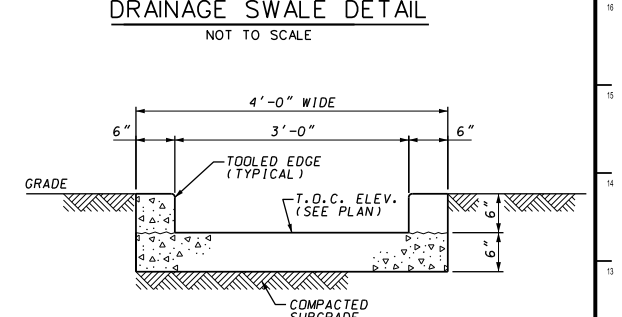
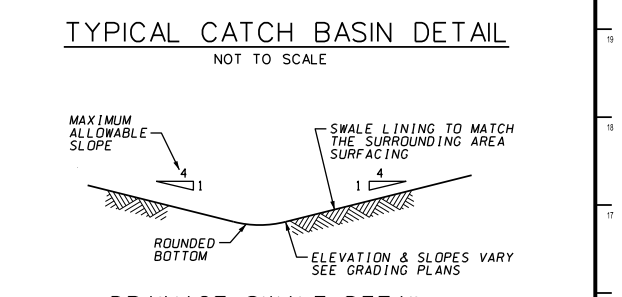
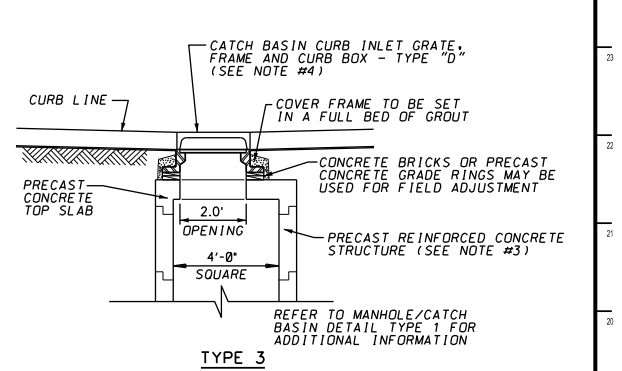
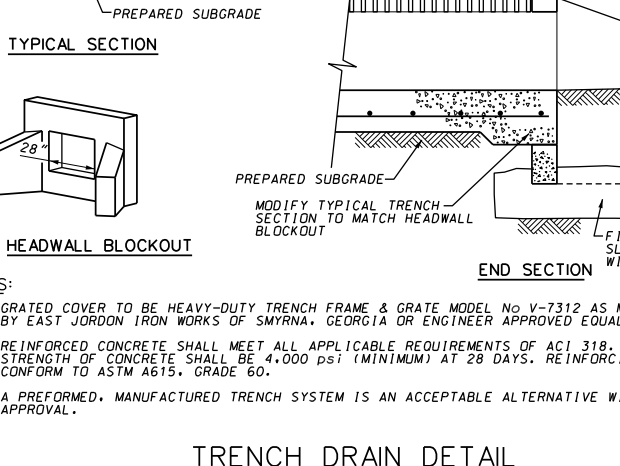
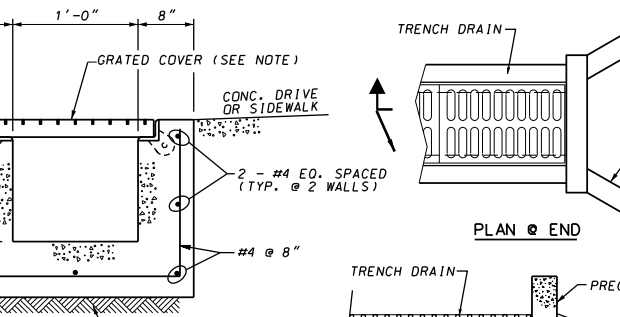
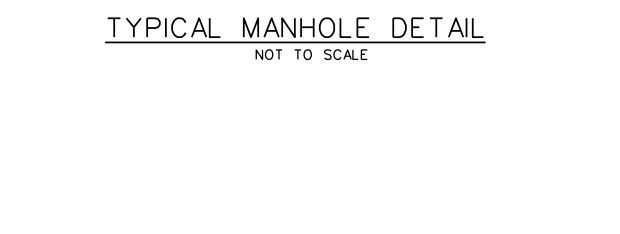
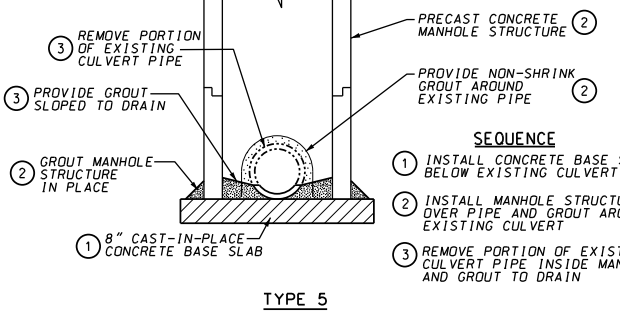
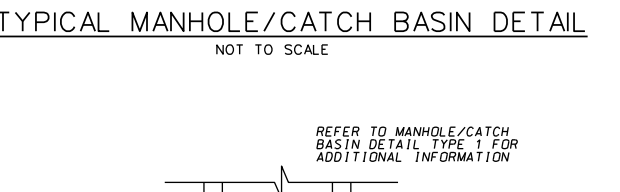
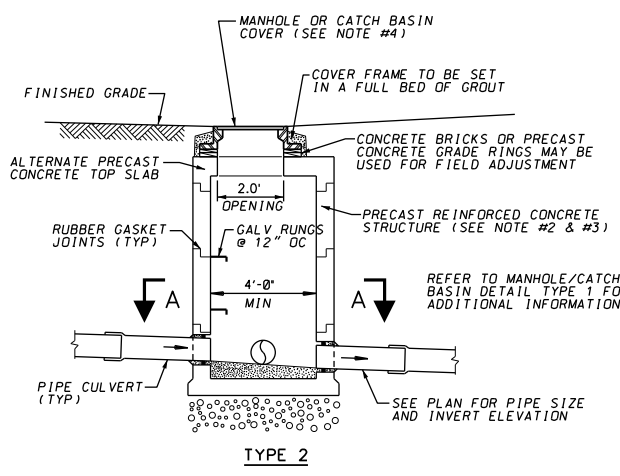
| TRENCH DRAIN SCHEDULE |          |        |              |               |            |                   |                    |               |   |  |
|-----------------------|----------|--------|--------------|---------------|------------|-------------------|--------------------|---------------|---|--|
| NAME                  | LOCATION |        | TRENCH WIDTH | TRENCH LENGTH | GRATE ELEV | INLET INVERT ELEV | OUTLET INVERT ELEV | PLAN DWG. No. | REMARKS                                     |  |
|                       | NORTH    | EAST   |              |               |            |                   |                    |               |   |  |
| T1                    | 1642.3   | 1286.0 | 12"          | 6'            | 5299.35    | 5298.92           | 5298.88            | 900-1-008     | ADJUST LOCATION WITH CONCRETE WALK OR DRIVE |  |
| T2                    | 1406.5   | 1286.0 | 12"          | 10'           | 5299.00    | 5298.50           | 5298.37            | 900-1-009     |   |  |
| T3                    | 1325.0   | 1286.0 | 12"          | 10'           | 5299.80    | 5298.25           | 5298.20            | 900-1-009     |   |  |
| T4                    | 1287.3   | 1286.0 | 12"          | 10'           | 5299.35    | 5298.40           | 5298.35            | 900-1-009     |   |  |

- NOTES**
- REFER TO DRAWING No. KPS-SLT-K11-900-1-002 FOR GENERAL NOTES AND LIST OF REFERENCE DRAWINGS.
  - PRECAST CONCRETE MANHOLE SHALL BE ROUND CONFORMING TO THE REQUIREMENTS SPECIFIED IN THE LATEST EDITION OF ASTM C478. MINIMUM INSIDE CLEAR DIMENSION SHALL BE 48 INCHES. IN ADDITION TO LATERAL LOADS DUE TO EARTH PRESSURE, MANHOLES SHALL BE DESIGNED FOR AASHTO HS20-44 TRUCK LOADING, INCLUDING IMPACT.
  - PRECAST CONCRETE CATCH BASINS SHALL BE EITHER ROUND OR SQUARE, CONFORMING TO THE REQUIREMENTS SPECIFIED IN THE LATEST EDITION OF ASTM C478 OR C913, RESPECTIVELY. MINIMUM INSIDE CLEAR DIMENSION SHALL BE 48 INCHES, UNLESS OTHERWISE NOTED. IN ADDITION TO LATERAL LOADS DUE TO EARTH PRESSURE, CATCH BASINS SHALL BE DESIGNED FOR AASHTO HS20-44 TRUCK LOADING, INCLUDING IMPACT.
  - HEAVY-DUTY FRAME AND GRATE/COVER SHALL BE AS MANUFACTURED BY EAST JORDON IRON WORKS OF SMYRNA, GEORGIA OR ENGINEER APPROVED EQUAL. MANHOLE COVER AND CATCH BASIN GRATE TYPES SHALL BE AS FOLLOWS:  
 TYPE A: MODEL No. 1020 TYPE 'A' MANHOLE SOLID COVER & FRAME FURNISHED WITH CAST-IN LETTERING READING "STORM"  
 TYPE B: MODEL No. 1720 CATCH BASIN INLET FRAME & TYPE 'P' CONCAVE GRATE  
 TYPE C: MODEL No. 5370 SQUARE CATCH BASIN INLET FRAME & GRATE  
 TYPE D: MODEL No. 7075 CURB INLET FRAME, TYPE 'M' GRATE & ADJUSTABLE CURB BOX
  - FACE OF PIPE FLUSH OR NOT TO PROJECT MORE THAN 4" FROM FACE OF WALL ALONG CENTERLINE OF PIPE.
  - HEIGHT OF INTERMEDIATE RISER SECTION VARY FROM 1' TO 4'.
  - PIPES TO CATCH BASIN JOINTS SHALL BE COMPLETELY SEALED AS TO NOT ALLOW ANY GROUNDWATER INTRUSION.
  - MANHOLE STEPS SHALL BE ORIENTED SO AS NOT TO INTERFERE WITH PIPE OPENINGS AND EXTEND TO 12" FROM BOTTOM OF THE STRUCTURE. STEPS MAY BE ELIMINATED FOR STRUCTURE WITH A DEPTH LESS THAN 32" OR LESS THAN 48" CLEAR OPENING.
  - PIPE BEDDING MATERIAL SHALL BE WELL GRADED SOIL WITH NO MORE THAN 15% PASSING A No. 200 SIEVE. MAXIMUM PARTICLE SIZE SHALL NOT EXCEED ONE INCH. EMBEDMENT AND BEDDING ZONE MATERIAL SHALL BE TYPE "SC", "SM", "SW", "SP", "GW" OR "GP" PER THE UNIFIED SOIL CLASSIFICATION SYSTEM COMPACTED TO 95% DRY DENSITY PER ASTM D1557. SOILS CLASSIFIED AS "ML", "CL", "MH", "CH" OR "OH" ARE NOT ACCEPTABLE FOR COMPACTION.
  - GEOTECHNICAL FABRIC BELOW RIPRAP LINING SHALL BE MIRAFI NON-WOVEN TYPE 140N OR ENGINEER APPROVED EQUAL.



| SCHEDULE                       |                 |                                |                               |           |
|--------------------------------|-----------------|--------------------------------|-------------------------------|-----------|
| CULVERT SIZE (D <sub>o</sub> ) | APRON WIDTH (W) | APRON LENGTH (L <sub>o</sub> ) | STONE SIZE (d <sub>50</sub> ) | REMARKS   |
| 12"                            | 6'              | 9'                             | 1"                            |           |
| 30"                            | 12'             | 20'                            | 9"                            | BY OTHERS |
| SPILLWAY                       | 5'              | 10'                            | 1"                            |           |

- RIPRAP NOTES:**
- 50% BY WEIGHT OF THE RIPRAP SHALL BE SMALLER THAN THE MEDIAN STONE SIZE, AS DESIGNATED BY d<sub>50</sub>, AND 50% BY WEIGHT SHALL BE LARGER. RIPRAP SHALL BE WELL GRADED AND THE LARGEST STONE SHALL NOT EXCEED 1.5 TIMES THE d<sub>50</sub> SIZE.
  - RIPRAP APRON THICKNESS SHALL EQUAL 3 TIMES THE d<sub>50</sub> STONE SIZE.



- NOTES:**
- REFER TO GRADING PLANS KPS-SLT-K11-900-1-008 AND KPS-SLT-K11-900-1-009 FOR LOCATION AND ELEVATIONS.
  - CONCRETE SHALL BE MINIMUM 3,000 PSI STRENGTH AT 28 DAYS.
  - SPLAY UPSTREAM END 7'-0" WIDE AND MERGE INTO ROADWAY CURBING.

**KBR ENGINEERING COMPANY**  
601 JEFFERSON STREET  
HOUSTON, TX 77002  
NM SCC NUMBER 1570407

**ZAHEDIJOU A. MOHAMMED**  
PROFESSIONAL ENGINEER - NEW MEXICO  
LICENSE NO. 26909  
EXPIRES 12/31/2025

**ZAHEDIJOU A. MOHAMMED**  
PROFESSIONAL ENGINEER

| REVISION HISTORY |         |                         |     |         |
|------------------|---------|-------------------------|-----|---------|
| REV              | DATE    | DESCRIPTION             | BY  | CHK APP |
| 1                | 9-24-24 | REV. SCHEDULES          | EJO | AS ZM   |
| 0                | 8-05-24 | ISSUED FOR CONSTRUCTION | EJO | AS ZM   |

**KBR** **Kairos Power**

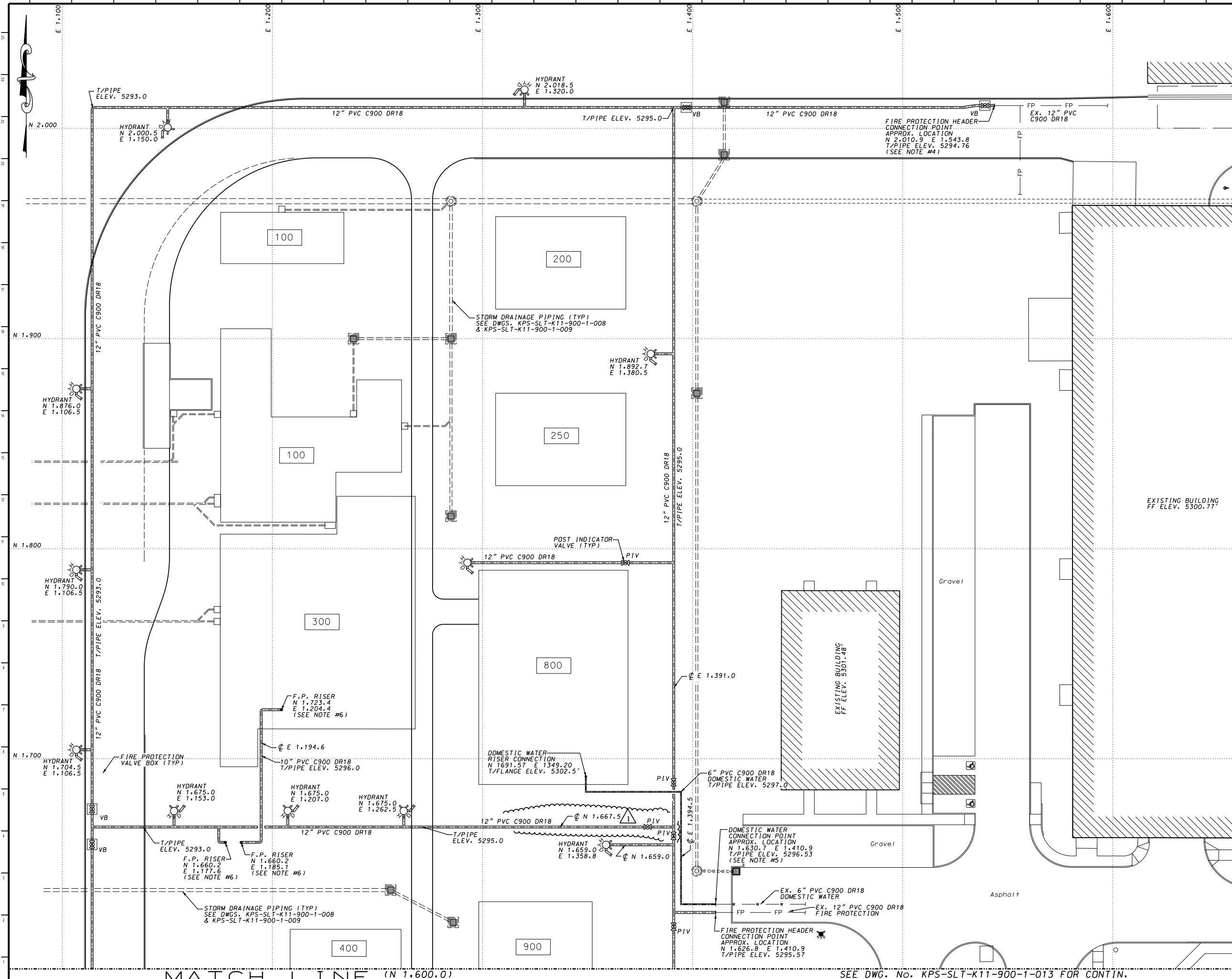
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**KPSW PROJECT SAGUARO**  
**TYPICAL DRAINAGE DETAILS**

DRAWN: EJO, CHECKED: AS, APPROVED: CS, DATE: 7-30-24  
SCALE: AS NOTED, DRAWING NUMBER: 218356, PROJ: KPS-SLT-K11-900-1-010, REV: 1

**NOTES:**

1. REFER TO DRAWING No. KPS-SLT-K11-900-1-002 FOR GENERAL NOTES AND LIST OF REFERENCE DRAWINGS.
2. ALL COORDINATE SHOWN FOR BASED ON THE PLANT COORDINATE SYSTEM. REFER TO DWG. No. KPS-SLT-K11-900-1-002 FOR BENCHMARK INFORMATION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES NECESSARY TO PROTECT THE PUBLIC FROM THE WORK AREA.
4. FIRE PROTECTION EQUIPMENT AND PIPING SHALL BE DESIGNED AND INSTALLED PER UNDERGROUND FIRE WATER LOOP SPECIFICATION & SCOPE OF WORK DOCUMENT No. N212-KBR-FP-SPEC-G10-0002.
5. DOMESTIC WATER AND SANITARY SEWER PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE ALBUQUERQUE BERNAL ILLO COUNTY WATER UTILITY AUTHORITY (ABCWUA) SPECIFICATIONS.
6. FINAL RISER LOCATION MUST BE COORDINATED WITH FIRE SPRINKLER CONTRACTOR.
7. REFER TO DWG. No. KPS-SLT-K11-900-1-012 FOR UNDERGROUND UTILITY DETAILS.



KBR ENGINEERING COMPANY  
 601 JEFFERSON STREET  
 HOUSTON, TX 77002  
 NM SCC NUMBER 1570407

ZAHEDIJUDIN A. MOHAMMAD  
 PROFESSIONAL ENGINEER - NEW MEXICO  
 LICENSE NO. 26909  
 EXPIRES 12/31/2025

| REVISION HISTORY |         |                         |     |     |     |
|------------------|---------|-------------------------|-----|-----|-----|
| REV              | DATE    | DESCRIPTION             | BY  | CHK | APP |
| 1                | 9-24-24 | REV. FIRE LINE LOCATION | EJO | AS  | ZM  |
| 0                | 8-05-24 | ISSUED FOR CONSTRUCTION | EJO | AS  | ZM  |



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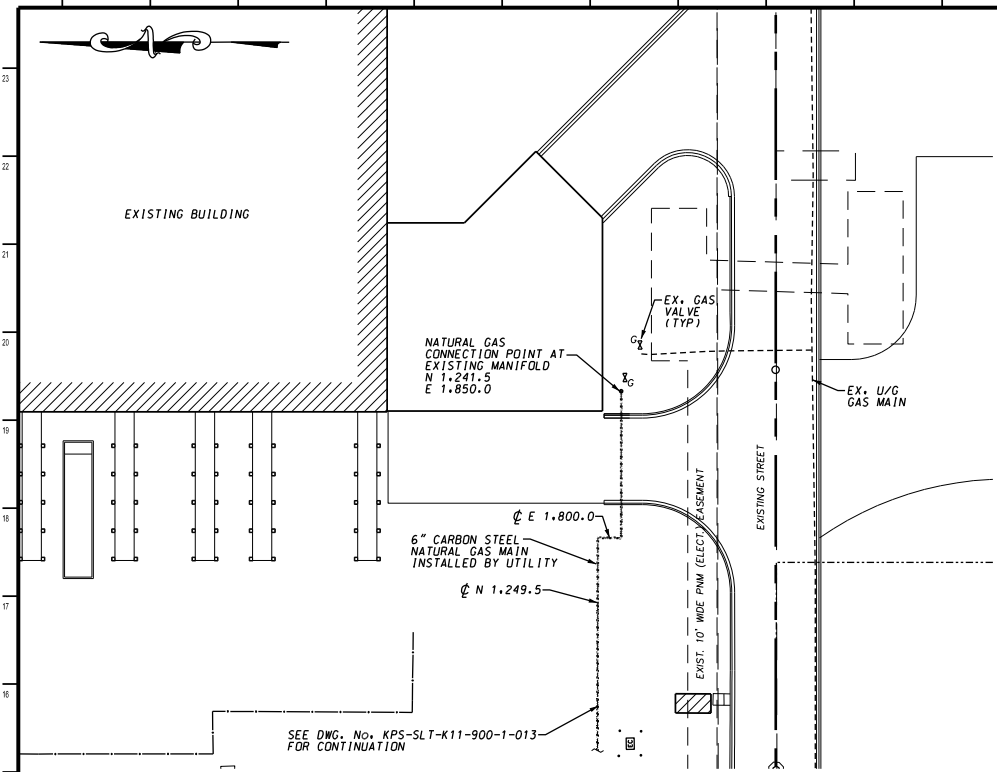
**KPSW PROJECT SAGUARO  
 UNDERGROUND UTILITY PLAN  
 SHEET #1**

|       |          |                       |    |          |    |      |         |
|-------|----------|-----------------------|----|----------|----|------|---------|
| DRAWN | EJO      | CHECKED               | AS | APPROVED | CS | DATE | 7-30-24 |
| SCALE | 1" = 20' | DRAWING NUMBER        |    |          |    | REV. |         |
| PROJ  | 218356   | KPS-SLT-K11-900-1-011 |    |          |    | 1    |         |

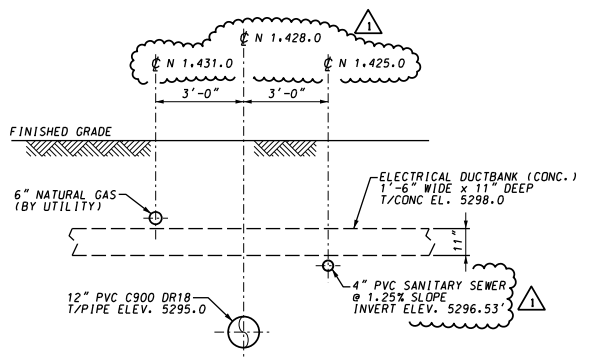
ARCH D  
24X36

MATCH LINE (N 1,600.0)

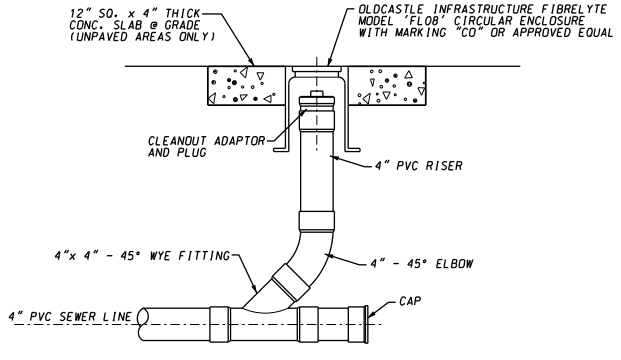
SEE DWG. No. KPS-SLT-K11-900-1-013 FOR CONTIN.



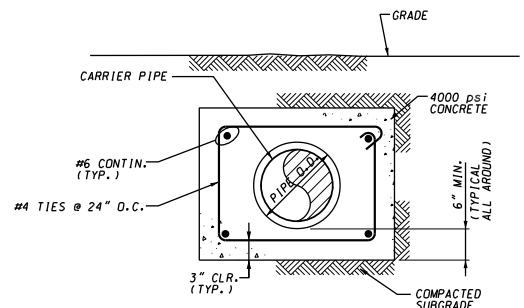
**UNDERGROUND NATURAL GAS PLAN**  
SCALE: 1" = 30'



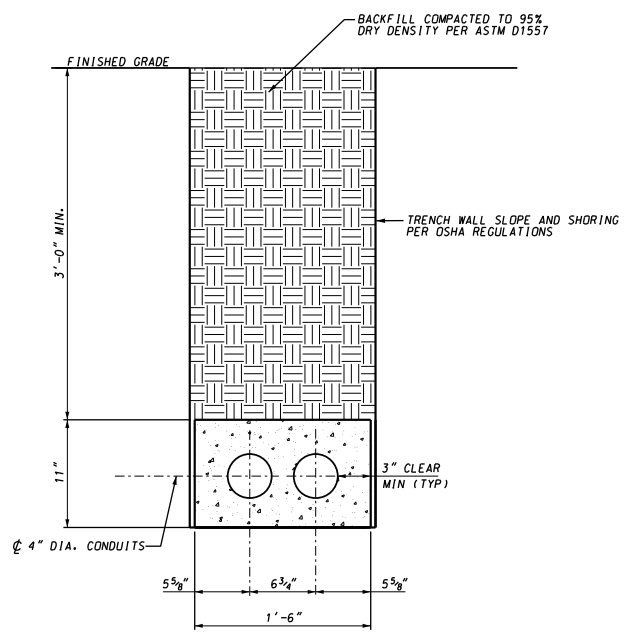
**UTILITY CROSSING DETAIL**  
SCALE: 1" = 10'



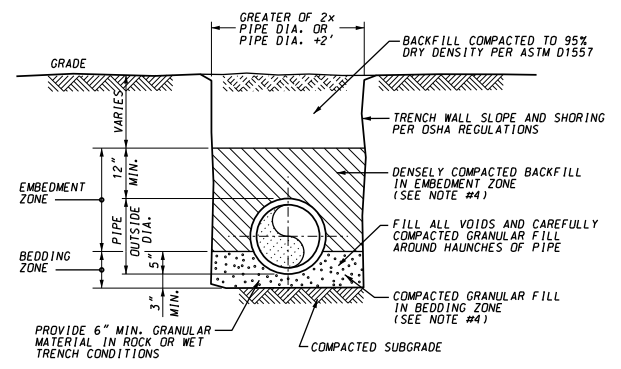
**SANITARY SEWER CLEAN-OUT DETAIL**  
NOT TO SCALE



**TYPICAL PIPE ENCASEMENT DETAIL**  
NOT TO SCALE



**TYPICAL SECTION CONCRETE ENCASED PVC DUCTBANK-UNDERGROUND**  
NOT TO SCALE



**TYPICAL PIPE BEDDING DETAIL**  
NOT TO SCALE

- NOTES:**
- REFER TO DRAWING No. KPS-SLT-K11-900-1-002 FOR GENERAL NOTES AND LIST OF REFERENCE DRAWINGS.
  - ALL COORDINATES SHOWN FOR BASED ON THE PLANT COORDINATE SYSTEM. REFER TO DWG. No. KPS-SLT-K11-900-1-002 FOR BENCHMARK INFORMATION.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES NECESSARY TO PROTECT THE PUBLIC FROM THE WORK AREA.
  - PIPE BEDDING MATERIAL SHALL BE WELL GRADED, NON-ANGULAR SOIL WITH NO MORE THAN 15% PASSING THE NO. 200 SIEVE; MAXIMUM PARTICLE SIZE SHALL NOT EXCEED ONE INCH. EMBEDMENT AND BEDDING ZONE MATERIAL SHALL BE TYPE "SC", "SM", "SW", "SP", "CW" OR "CP" PER UNIFIED SOIL CLASSIFICATION SYSTEM COMPACTED TO 95% DRY DENSITY PER ASTM D1557. SOILS CLASSIFIED AS "ML", "CL", "MH", "CH" OR "OH" ARE NOT ACCEPTABLE FOR COMPACTION.

KBR ENGINEERING COMPANY  
601 JEFFERSON STREET  
HOUSTON, TX 77002  
NM SCC NUMBER 1570407

ZAHEDIJUDIN A. MOHAMMAD  
PROFESSIONAL ENGINEER - NEW MEXICO  
LICENSE NO. 26909  
EXPIRES 12/31/2025

| REVISION HISTORY |         |                              |     |     |     |
|------------------|---------|------------------------------|-----|-----|-----|
| REV              | DATE    | DESCRIPTION                  | BY  | CHK | APP |
| 1                | 9-24-24 | REV. UTILITY CROSSING DETAIL | EJO | AS  | ZM  |
| 0                | 8-05-24 | ISSUED FOR CONSTRUCTION      | EJO | AS  | ZM  |



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**KPSW PROJECT SAGUARO UNDERGROUND UTILITY PLAN AND DETAILS**

|       |          |                       |    |          |      |      |         |
|-------|----------|-----------------------|----|----------|------|------|---------|
| DRAWN | EJO      | CHECKED               | AS | APPROVED | CS   | DATE | 7-30-24 |
| SCALE | AS NOTED | DRAWING NUMBER        |    |          | REV. |      |         |
| PROJ  | 218356   | KPS-SLT-K11-900-1-012 |    |          |      | 1    |         |



**NOTES:**

1. REFER TO DRAWING No. KPS-SLT-K11-900-1-002 FOR GENERAL NOTES AND LIST OF REFERENCE DRAWINGS.
2. ALL COORDINATES SHOWN FOR BASED ON THE PLANT COORDINATE SYSTEM. REFER TO DWG. No. KPS-SLT-K11-900-1-002 FOR BENCHMARK INFORMATION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES NECESSARY TO PROTECT THE PUBLIC FROM THE WORK AREA.
4. FIRE PROTECTION EQUIPMENT AND PIPING SHALL BE DESIGNED AND INSTALLED PER UNDERGROUND FIRE WATER LOOP SPECIFICATION & SCOPE OF WORK DOCUMENT No. N212-KBR-FP-SPEC-G10-0002.
5. DOMESTIC WATER AND SANITARY SEWER PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY (ABCWUA) SPECIFICATIONS.
6. FINAL RISER LOCATION MUST BE COORDINATED WITH FIRE SPRINKLER CONTRACTOR.
7. REFER TO DWG. No. KPS-SLT-K11-900-1-012 FOR UNDERGROUND UTILITY DETAILS.
8. LOCATION AND SIZE OF CARBON STEEL NATURAL GAS MAIN SHOWN SHALL BE VERIFIED WITH THE GAS UTILITY COMPANY PRIOR TO INSTALLATION.

**HOLD LOG:**

- 01 ELECTRICAL MANHOLE FINAL MANHOLE LOCATION AND DETAILS ARE PENDING.
- 02 SANITARY SEWER FINAL BUILDING SUMP CONNECTION IS PENDING.

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 LICENSE NO. 26909  
 EXPIRES 12/31/2025

ZAHEDIROUDIN A. MOHAMMAD  
 PROFESSIONAL ENGINEER

**REVISION HISTORY**

| REV | DATE    | DESCRIPTION   | BY  | CHK | APP |
|-----|---------|---|-----|-----|-----|
| 1   | 9-24-24 | GENERAL REVISION:<br>REV. UNDERGROUND UTILITIES FOR BLDG. 150, 800, 900, 925 & 950 CHANGES. | EJO | AS  | ZM  |
| 0   | 8-05-24 | ISSUED FOR CONSTRUCTION   | EJO | AS  | ZM  |



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**KPSW PROJECT SAGUARO  
 UNDERGROUND UTILITY PLAN  
 SHEET #2**

|       |          |                       |    |          |    |      |         |      |
|-------|----------|-----------------------|----|----------|----|------|---------|------|
| DRAWN | EJO      | CHECKED               | AS | APPROVED | CS | DATE | 7-30-24 |      |
| SCALE | 1" = 20' | DRAWING NUMBER        |    |          |    |      |         | REV. |
| PROJ  | 218356   | KPS-SLT-K11-900-1-013 |    |          |    |      |         | 1    |

