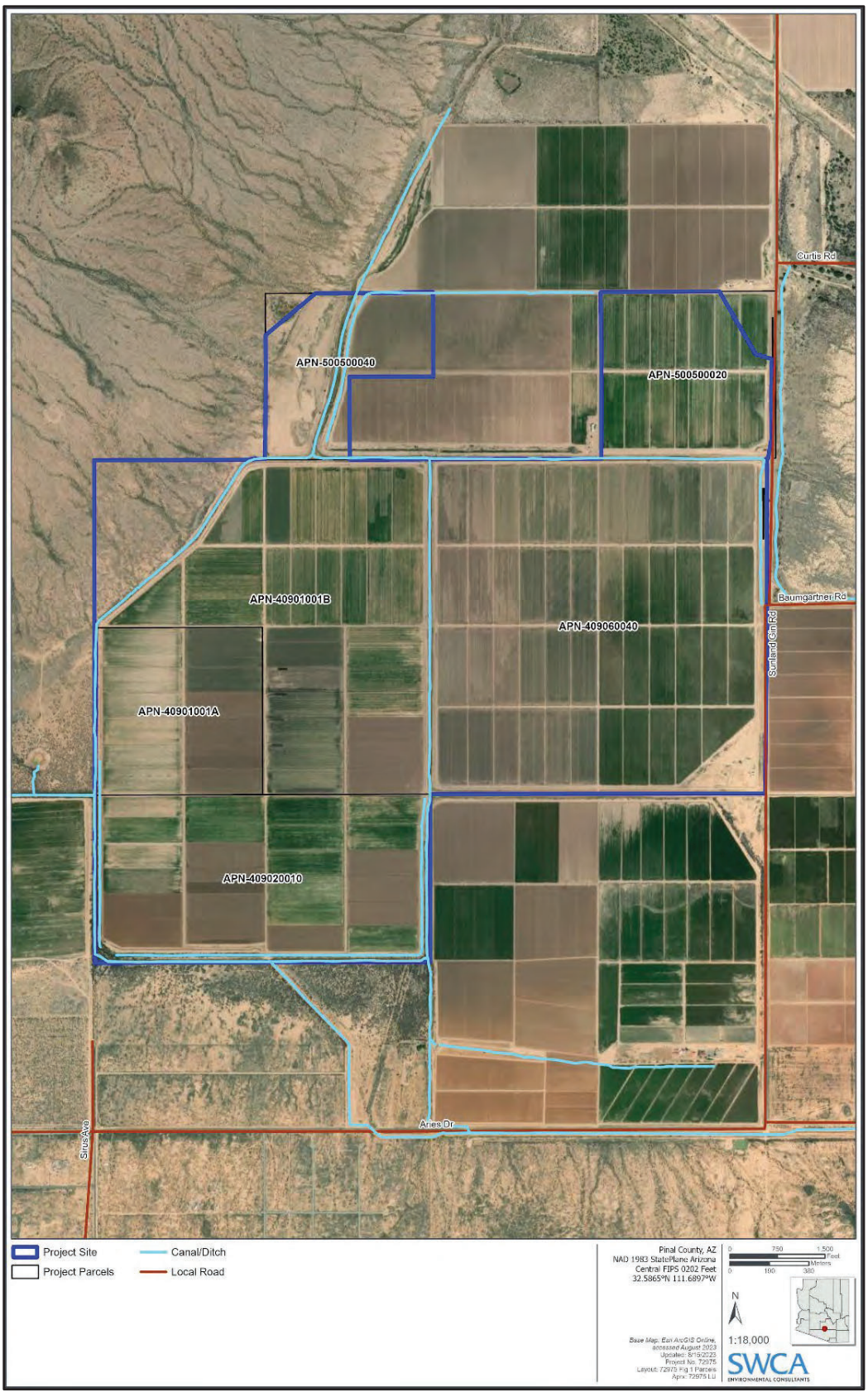


Figure 1. Project Site and Parcel boundaries.

The Project Parcels include multiple zoning districts, including GR, SR, CR-2, CR-3, CR-4, CR-5, CI-2, CB-1, and CB-2. PV solar facility and BESS are not permitted uses within the current zoning districts. The Applicant proposes to rezone the Project Parcels as Industrial (I-3) with a PAD Overlay District on the Project Site to accommodate the proposed use as a type of Power Plant.

Sonak Solar Project requests that the rezoning be approved subject to the following draft condition, which is authorized pursuant to Pinal County Development Services Code ("Development Code") Section 2.166.050(K):

Pinal County approval of rezoning is conditioned on meeting the following schedule of development:

- *Property subject to rezoning request must be acquired by Sonak Solar Project, LLC on or before the expiration date of the purchase option in the document recorded with Pinal County on December 15, 2020, under Fee Number 2020-131010, which is currently December 15, 2024, but such date may be extended by the parties through an amendment recorded on the properties.*
- *Upon expiration of the date above, if the schedule for development has not been met, either the landowner of the property subject to the rezoning request or the applicant may request a public hearing from the County in writing. Within thirty days of receipt of such request, the Supervisors will schedule a public hearing to determine compliance or cause the property to revert to its former zoning classification. Costs of required public notice for such public hearing shall be paid for by Sonak Solar Project, LLC within thirty days of receipt of an invoice from the County detailing the expense.*

The County previously approved a Major Comprehensive Plan Amendment (MCPA) to the Pinal County Comprehensive Plan to change the land use designation of the Project Parcels to Green Energy Production and Major Open Space (see planning case number PZ-PA-003-21; approved by the Board of Supervisors on November 17, 2021). The rezone and PAD Overlay District are needed to facilitate development of the PV solar facility in accordance with the Development Code.

Sonak Solar Project identified the Project Site as an optimal location for a PV solar facility based on availability of favorable resources. These resources include large, generally level areas with a lack of sensitive biological resources, as well as proximity to existing transmission lines and substations. Besides the favorable resources listed above, Sonak Solar Project conducted an evaluation of the Project Site with regards to wetlands and potentially jurisdictional waters of the U.S. Sonak Solar Project conducted a wetland delineation, finding two wetlands and four streams that potentially meet the criteria to be jurisdictional waters of the U.S. (Stantec 2021a). Sonak Solar Project will abide by current federal regulations, avoid the wetlands and streams where possible, and mitigate any potentially negative effects where they cannot be avoided. The Project Site within unincorporated Pinal County does not overlap any Special Flood Hazard Areas (100-year floodplains), as identified by the Federal Emergency Management Agency or the Pinal County Flood Control District.

The Project is intended to increase the production and distribution of renewable energy within Pinal County and Arizona broadly, where electrical demand is steadily increasing. Additionally, Sonak Solar Project expects that the Project will have a positive economic effect by providing short- and long-term job opportunities in the area, tax benefits to Pinal County, and local economic activity from transactions with local businesses. Sonak Solar Project will strive to use as much local labor and local contractors/materials as possible for the Project.

A.1 Public Engagement

Public outreach for this Project is ongoing and includes outreach via direct mail (newsletters), neighborhood meetings, posting of signs, and public notices. A neighborhood meeting was held on October 20, 2022. Additional information regarding public engagement is included in Appendix D.

In-person and virtual neighborhood meetings were held for the public on October 20, 2022.

- Information was sent to residents within 1,200 feet of the Project Site (see Appendix D), as well as an additional 150 citizens.
- The Neighborhood Meeting opened at 4 p.m. and was open until 9 p.m. Three community members attended. Several questions were asked by the attendees that were related to design and scheduling (see Appendix D). Questions were answered by the Sonak Solar team at the meeting.
- No members of the public attended the Virtual Open House meeting. The meeting was opened at 11 a.m. on October 20, 2022, and was left open for one hour.
- No letters, calls, or emails with comments have been received responding to the mailers and notifications.

B. PROJECT DESCRIPTION

> *The character and type of each proposed land use and building types and densities shall be thoroughly explained. All of the proposed nonresidential buildings and structures and their intended uses shall be described.*

Sonak Solar Project is requesting approval of a rezoning of the Project Parcels and PAD Overlay District on the Project Site to construct and operate a solar Power Plant on the Project Site. The Project is a solar electrical generation facility with a generating capacity of 323 MWac of solar generation and up to 162 MWac of BESS. The primary components of the Project ("Project Facilities") include the following:

- Solar array of PV modules mounted on a single-axis tracking system, along with supporting weather monitoring equipment
- Electrical collection systems, including photovoltaic combining switchgear, power conversion stations, inverters, communication lines, transformers, and collection lines
- Project substation and associated structures and transmission facilities
- BESS and associated structures and facilities
- Associated civil infrastructure including fencing, access driveways and gates, driveways, on-site parking, drainage channels, retention basins, and signage
- Operations and maintenance building and storage areas
- Temporary infrastructure associated with construction such as a concrete batch plant and laydown yards
- Other associated facilities

The Project Site is intended to be developed with solar arrays, consisting of PV solar panels mounted on single-axis tilt trackers. An inverter (or power conversion module) serves several rows of PV solar panels, which converts the direct current (DC) electricity generated by the panels into alternating current

(AC) electricity for delivery to the Project substation via a network of underground collector lines. These "rows" of PV panels and inverters will produce up to 323 MWac of generating capacity. The Project will include a network of unpaved, 20-foot-wide internal access roads that provide access to the solar arrays and each inverter station. Internal access roads will be restricted to authorized personnel only through security gates at public access points. Project traffic during operation is limited to small crews visiting for purposes such as cleaning, maintenance, emergency response, and various other needs.

The maximum structure height in the solar array is expected to be approximately 12 feet.

The gen-tie line for the Project will consist of a single-circuit 230-kilovolt (kV) or 345-kV transmission line mounted on steel monopole structures spaced at an interval of approximately 600 to 900 feet. The Project will connect to the existing APS or TEP transmission systems, 2.7 and 6.3 miles south of the Project Site, respectively.

The BESS is proposed near the Project substation as shown in Appendix A. The BESS facility will consist of multiple enclosures housing lithium-ion battery cells, inverters and will be equipped with numerous, redundant safety features including a battery management system, thermal management system, fire alarm system, and container ventilation. The BESS will have a storage capacity of approximately 162 MWac, capable of delivering 550 megawatt-hours (MWh).

Other Project features include chain-link security fencing installed around the Project Facilities, with four gated access points, as shown on the Development Plan (see Appendix A). The fencing will be approximately 6 to 8 feet tall, including barbed wire on top. Security lighting may be installed along the perimeter fence and at the Project substation; all exterior lighting will be designed to meet the applicable Development Code requirements. All structures will be designed and constructed in accordance with applicable building and fire codes.

The Project infrastructure described above and depicted in the Development Plan is subject to change due to engineering constraints and advances in technology; Sonak Solar Project plans to submit the exact specifications of the Project Facilities for approval by Pinal County prior to construction.

C. RELATIONSHIP TO SURROUNDING PROPERTIES

Surrounding land use and zoning should be described. The impact of the proposal on surrounding properties in each direction should be discussed.

The Project Site is bordered to the north by State Trust Land and private lands to the east, west, and south. The Project Site has ideal flat topography with less than 10 feet of elevation change throughout. Indianhead Peak in the Sawtooth Mountains lies approximately 2 miles west of the Project Site with an approximate rise in elevation of 350 feet. Unnamed washes drain through the center of the Project Site from north to south and east to west. On-site runoff is sheet flow draining into these unnamed washes and then to Green Wash, which is located north of the Project Site. Several man-made ditches and berms are present at the boundaries of the Project Site that also intercept and redirect off-site flow, as described in the Preliminary Drainage Report (Appendix E).

According to the Pinal County's MCPA, existing land uses on the Project Site are Agriculture, Passive/Restricted Open Space, and Vacant/Undeveloped land (Figure 2) and land uses within 1 mile of the Project Site (see Figure 2) include Agriculture, Passive/Restricted Open Space, Public Land, Single-Family Low Density, and Vacant as follows.

- West: Vacant/Undeveloped State Trust Land; one parcel designated for agricultural use.

- East: Agriculture and Vacant/Undeveloped land.
- North: State Trust Land
- South: Vacant/Undeveloped land, with scattered Single-family residences starting 0.5 mile to the south and southwest including residences along West Aries Drive and Sunland Gin Road.

The closest residences to the Project Site border the Project boundary in the northeast corner along Sunland Gin Road and West Kinley Road. The next closest residence is approximately 0.5 mile south of the southwest corner of the Project Site along West Aires Drive. To the east of Sunland Gin Road, the closest residence is 0.7 mile south of the Project Site.

The Project is expected to have minimal impacts to the existing land uses on the surrounding parcels. Constructing and operating the Project will not impede agricultural and livestock operations on adjacent and/or nearby land; similarly, the Project will be designed with consideration of the canal running adjacent to and through the Project Site. As described in Section D, the impact to traffic is expected to be minimal during Project operations, the Project is expected to be visited infrequently, typically by small crews for maintenance, and the Project will not impair the ability of adjacent landowners to access their property. Noise during construction may be audible from residences immediately adjacent to the Project Site, but this impact will be intermittent and short-lived, ceasing once construction is completed.

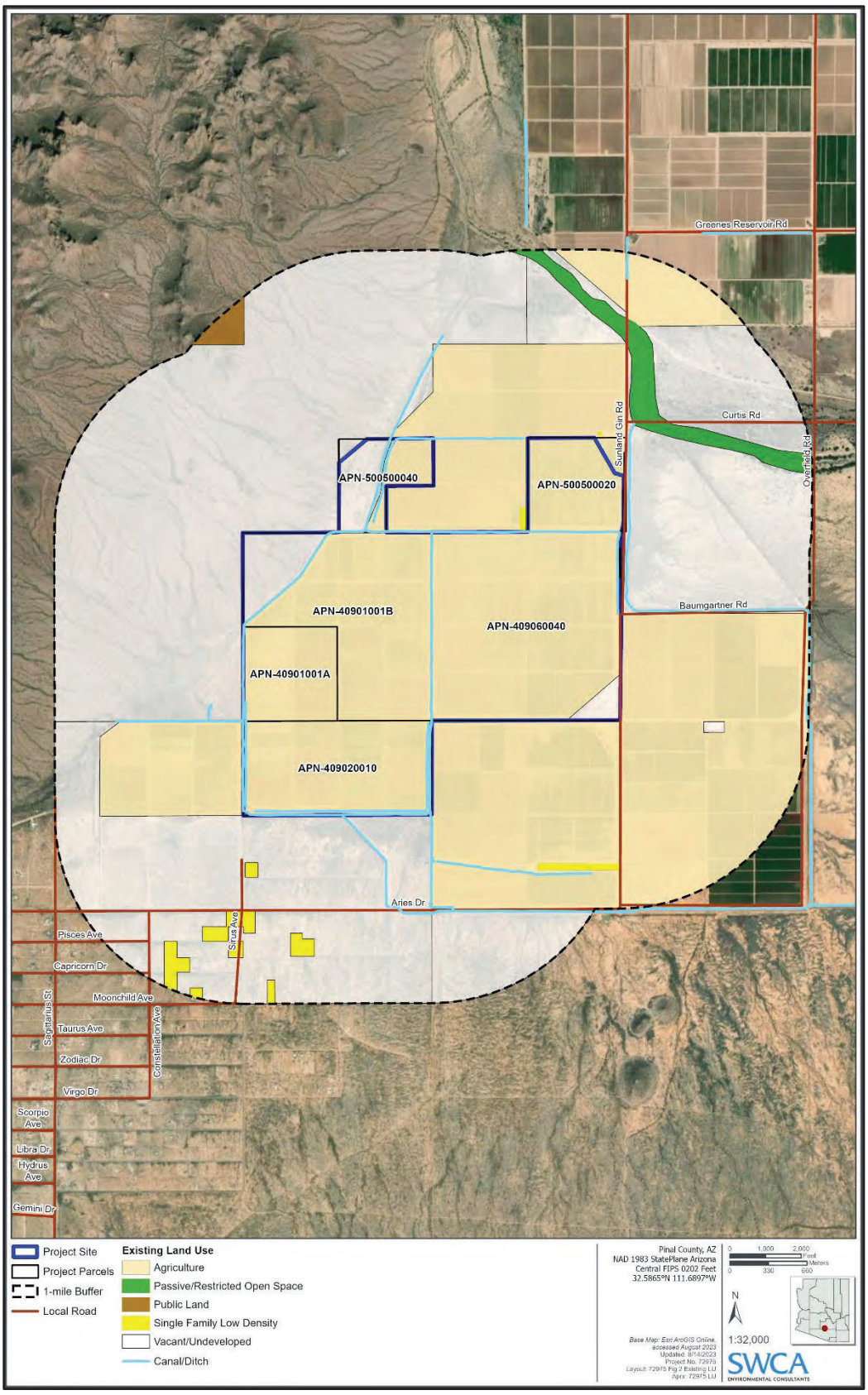


Figure 2. Existing land use within a 1-mile buffer of the Project Site.

C.1 Schools

The impacts on schools, including the demand for new schools, shall be explained. A school response letter indicating the status of review and method of addressing impacts created by the proposed PAD overlay zoning district shall be provided by the applicant.

The Project will not have any discernible effects on schools. The nearest school is Picacho Elementary School, located at 17865 South Vail Road, approximately 13 miles northeast of the Project Site. Given its distance from the Project, the Picacho Elementary School is unlikely to experience any disturbances (e.g., noise, traffic) associated with construction. The Project is located within the Eloy Elementary School District and the Santa Cruz Valley Union High School District.

The Project anticipates that the construction and operation workforce will be sourced from the local labor pool as much as practicable. The Project will employ a large number of temporary construction personnel, but it is unlikely that workers will relocate to the area with families for this time period. Therefore, the Project will not place additional demand on local public schools or require the construction of new schools. Given that the applicant does not expect the Project to have any impact on schools, a school response letter is not warranted.

C.2 Public Services

Discuss the impact on existing public services and the need for additional services such as fire stations, fire protection systems (fire hydrants), sheriff's facilities and waste disposal systems and how and when the need will be addressed.

Existing public services are adequate to support the Project and no new or additional public services are anticipated to be required as a result of the Project. Sonak Solar Project notes that, aside from the Project's connection to the regional transmission system (discussed further below), the Project will require few, if any, public utility services during construction or operation.

During operations, the Project will not generate any wastewater, will not require potable water on a routine basis, and will not generate solid waste on a routine basis. To the extent that wastewater or solid waste services are required, Sonak Solar Project will arrange for hauling and disposal services on a case-by-case basis. During construction, the water required for construction activities (such as dust suppression) and construction worker use is expected to be hauled to the site. During operations, the minimal water required for panel washing and landscape maintenance is also expected to be hauled to the site as needed. The Project Site is within the Central Arizona Irrigation and Drainage District's (CAIDD's) service area; if the Applicant determines that the potential exists to source water from on-site wells, such usage from new or existing wells will be coordinated with and permitted through the CAIDD and the Arizona Department of Water Resources, as needed.

The Project will be designed with a stormwater management system such that post-construction stormwater discharges will not exceed existing conditions; as such, Sonak Solar Project does not anticipate any upgrades to roadway drainage features. Sonak Solar Project has provided a preliminary drainage report for the Project Site to inform the design requirements and sizing of stormwater management structures, provided in the Preliminary Drainage Report (see Appendix E).

The Pinal County Sheriff's Office provides law enforcement services within the proposed PAD area; the Applicant intends to coordinate with this office as needed during Project development, construction, and operations. Sonak Solar Project has been coordinating with the Regional Fire and Rescue Department (RFRD) on Project design and safety standards and intends to continue working with RFRD to secure

subscription-based fire and emergency medical services. Following the best practices, Sonak Solar will continue to coordinate with RFRD while finalizing the Project design to ensure the Project Facilities, access points, and access roads will facilitate emergency response. Furthermore, Sonak Solar Project intends to include local first responders in site tours and emergency drills during the construction phase of the Project. As currently designed, no new fire hydrants are proposed.

C.3 Community Services

Discuss the need for community services such as churches, libraries, museums, community centers, and how the need will be addressed.

The Project will not increase the need for, or negatively impact, community services, such as churches, libraries, museums, or community centers. The nearest community-service facilities are in central Eloy, approximately 12.5 miles northeast of the Project Site.

D. LOCATION AND ACCESSIBILITY

The advantages of the proposed location should be explained. The means of access, distance from major streets, distance from regionally significant route as projected in Regionally Significant Routes for Safety and Mobility, Final Report, December 2008, and surrounding road conditions should be described. Any proposed interior streets, drives and improvements should also be described using cross-section drawings or similar details.

The Project Site is located within unincorporated Pinal County, just south of the incorporated city limits of Arizona City and approximately 10 miles south of central Arizona City, Arizona. The Project has been proposed in this location due in part to proximity to existing transmission lines and substations. Paved and unpaved rural roads border the parcels that comprise the Project Site. These roads include Sunland Gin Road, West Kinley Road, Pearce Road, and Sun Avenue.

Interstate 10 (I-10) and the Union Pacific Railroad, a major transportation and freight corridor, are located less than 13 miles northeast of the Project Site. The intersection of I-10 and State Route 87 is approximately 12.5 miles northeast of the Project Site.

Sonak Solar Project designed the Project with four gated access points, all off Sunland Gin Road, as shown on the Development Plan (see Appendix A). Sonak Solar Project will submit applications to obtain right-of-way (ROW) permits from the Pinal County Department of Public Works as needed for these access points prior to Project construction. The same access points will be used during Project construction and operation.

Sunland Gin Road is designated as a Regionally Significant Route (RSR) north of Baumgartner Road. A portion of the road where it is an RSR runs adjacent to the northeastern portion of the Project Site. Peart Road is an RSR that is not yet existing though, according to an update to the 2008 Pinal County Regionally Significant Routes for Safety and Mobility Final Report (RSR Final Report), is planned to cross diagonally through a portion of the Project Site (Pinal County 2008). Since the Project will not be significantly adding to traffic demand during operations and the road is not anticipated to be needed in the near future, Sonak Solar Project has discussed this RSR with staff and agreed that dedication of ROW could be delayed until Project decommissioning through a condition of approval to work with staff upon decommissioning of the Project to provide the required ROW for this RSR.

Within the Project Site, unpaved, 20-foot-wide internal access roads will provide access to the solar arrays and each inverter station. Internal access roads will be restricted to authorized personnel through use of security gates at the intersections with public roads. These internal access roads will be used by small crews that visit the site regularly but infrequently for purposes such as cleaning, maintenance, and emergency response. Sonak Solar Project will work with the Arizona Department of Transportation (ADOT) and/or the Pinal County Public Works Department to ensure that Sunland Gin Road, West Aries Drive, and Pearce Road remain fully accessible for use by the public during construction.
No modifications of the roads will be required in order to accommodate construction traffic.

The existing primary access routes currently experience low traffic volumes. The Project is anticipated to generate less than 100 peak hour trips; therefore, a preliminary Traffic Impact Statement has been prepared (see Appendix F). Project construction and operation are not expected to have a significant impact on the surrounding roadway system.

D.1 Access Points

If proposed development is adjacent to a projected regionally significant route, describe how the access points to the development site comply with the Regionally Significant Routes for Safety and Mobility, Access Management Manual, October 2008.

As noted above, the Project is designed with four access points off Sunland Gin Road. Sunland Gin Road is a north–south paved county road that originates in the city of Arizona City and terminates 1 mile north of I-10. Sunland Gin Road primarily serves agricultural and local residential traffic; it is a free-flowing county road with a speed limit of 50 miles per hour, slowing to 35 miles per hour near I-10. Sunland Gin Road is identified as an RSR principal arterial corridor road north of Baumgartner Road.

Sonak Solar Project will construct access points in accordance with applicable requirements in the RSR Final Report (Pinal County 2008). The access management guidelines for private driveways require they be located at least 660 feet from traffic signals and spaced at least 330 feet apart. There are no streetlights or pedestrian facilities along any of the county roads bordering the Project Site.

Peart Road is a planned future road that, in an update from the RSR Final Report, is designated as an RSR. This road is currently noted in a more recent update to the RSR Final Report as crossing diagonally through a portion of the Project Site. Since the Project will not be adding to traffic demand significantly during operations and the road is not anticipated to be needed in the near future, Sonak Solar Project has discussed this RSR with staff and agreed upon a condition of approval to work with staff upon decommissioning of the Project to provide the required ROW for a future Peart Road.

E. UTILITIES AND SERVICES

The availability and adequacy of proposed utilities and services must be thoroughly discussed.

Existing public utilities and services are adequate to support the Project, and no new or additional public services are anticipated to be needed as a result of the rezone and PAD Overlay District. Sonak Solar Project notes that, aside from the Project's connection to the regional transmission system, which will be provided pursuant to the terms of an interconnection agreement, the Project will require few, if any, public utility services during construction or operations. During operations, the Project will not generate any wastewater, will not require potable water on a routine basis, and will not generate solid waste on a routine basis. To the extent that wastewater or solid waste services are required, Sonak Solar Project will arrange for hauling and disposal services on a case-by-case basis.

Existing utilities within the Project vicinity include the Western Area Power Administration (WAPA)–owned 230-kV and 115-kV transmission lines, one TEP 345-kV transmission line and a substation, two APS-owned 230-kV transmission lines and a substation, as well as a 230-kV APS (Tohono O'odham) transmission line. Sonak Solar Project will coordinate for upgrades to the existing transmission system that are necessary for Project interconnection, subject to the terms of the Project's interconnection agreement with WAPA, APS, and TEP. There are also numerous electrical distribution lines, communications cables, and irrigation canals, laterals, and ditches on and in the vicinity of the Project Site.

Water is expected to be hauled to the Project Site during construction and operation to serve the uses needed on-site. Water hauled to the site would be from permitted sources, and use of any new or existing wells on-site would be permitted through the Arizona Department of Water Resources, as needed.

The Project will be designed with a stormwater management system such that post-construction stormwater discharges will not exceed existing conditions; as such, Sonak Solar Project does not anticipate any upgrades to roadway drainage features. Sonak Solar Project has prepared a Preliminary Drainage Report for the Project Site to inform the design requirements and sizing of stormwater management structures (see Appendix E).

The Pinal County Sheriff's Office provides law enforcement services within the proposed PAD area, and no increase in demand for services is expected due to the Project being an unmanned and secured facility. The Applicant intends to work with the RFRD to secure subscription-based fire and emergency medical services. As currently designed, no new fire hydrants are proposed.

Sonak Solar Project anticipates that existing public utilities and services are adequate to support the Project without any upgrades other than those coordinated through the Project's interconnection agreement. As such, Sonak Solar Project, is not proposing any new public utilities or services to support the Project.

F. OWNERSHIP AND CONTROL

Indicate who will own, control and maintain landscaping, open space, streets, recreation facilities, refuse disposal and utility systems.

Sonak Solar Project holds a purchase option to purchase the Project Parcels from the current landowner. The property would be purchased prior to Project construction. The Project Site will be secured from public access and visited infrequently by small crews for maintenance. Sonak Solar Project will contract for landscaping maintenance. During construction, solid waste will be collected and removed on a regular basis to a licensed disposal facility. The Project will not generate solid waste on a regular basis during operations; to the extent solid waste services are required, Sonak Solar Project will arrange for hauling and disposal service on a case-by-case basis. The Project Site will not involve any open space, new public roadways, recreation facilities, or service connections for potable water and/or wastewater. The PAD Overlay does not include the portion of the Project Parcels designated as Major Open Space as the Project development will be contained within the Project Site comprised of Green Energy Production designated land in the MCPA.

G. TIMING OF DEVELOPMENT

A section of the report should contain a phasing schedule for timing of construction for each unit and connection to infrastructure necessary to support a specific unit or the whole development including, but not limited to, transportation improvements, public services, utilities and development of common areas and open space amenities. Phasing for recreation area amenities shall follow the requirements set forth in PCDSC 2.176.160(A).

Sonak Solar Project anticipates following this Phasing Schedule, though all dates are subject to change:

- Phase 1: Development – Present to estimated December 2024
  - During the Development Phase, Sonak Solar Project will obtain discretionary permits from Pinal County, the Arizona Corporation Commission, and other local, state, and federal authorities. Sonak Solar Project will also continue community engagement, finalize site studies and facilities design, and obtain interconnection agreements during this time.
- Phase 2: Construction – Estimated December 2024 to December 2025
  - Construction is expected to begin in December 2024 and will require approximately 12 months to complete. Construction will take place in phases, some of which may be overlapping. The Site Preparation Phase will include clearing and leveling the site where needed and setting up the temporary laydown yard. The Civil Infrastructure Phase will include construction of access roads, fences, and other civil works. The Installation Phase will include driving of piles to support solar PV racks, installation of solar PV panels on the racks, installation of solar inverters, and the trenching of collection lines across the site. The Installation Phase will also include construction of the BESS facilities, project substation, and gen-tie line for interconnection to the grid. The Commissioning Phase will include inspection, testing, and commissioning of the facilities. Finally, the Site Reclamation Phase will include remediating areas of ground disturbance.
- Phase 3: Operations – Estimated December 2025 to December 2055/December 2060
  - The useful life of the Project is expected to be 30 to 35 years. During the Operations Phase, an operations and maintenance crew will oversee the Project Facilities, maintain the Project Site, and coordinate with the local community.
- Phase 4: Decommissioning – 12 Months after Operations
  - The Project will be decommissioned at the end of its useful life. Please see Appendix G, Sonak Solar Decommissioning Plan, for additional details.

H. COMPREHENSIVE PLAN CONFORMANCE

Discuss the relationship and conformance of the proposed PAD overlay zoning district with the comprehensive plan.

The overall intent of the Pinal County Comprehensive Plan is to act as a tool that will serve to "steer the County on a positive course of action to manage growth, preserve the quality of life, and promote sustainability. It is a long-term vision that promotes effective economic vitality while ensuring environmental stewardship. The Pinal County Comprehensive Plan articulates the vision and outlines the strategic direction to position Pinal County as a "vibrant, healthy, and economically sustainable region within the state of Arizona" (Pinal County 2021).

Sonak Solar Project applied for, and received approval of, a MCPA to the Pinal County Comprehensive Plan to change the underlying land use designation of the Project Parcels from Moderate Low Density Residential to Green Energy Production and Major Open Space (see planning case number PZ-PA-005-21). The MCPA application provides a detailed description of the Project's conformance with the Pinal County Comprehensive Plan (Pinal County 2021), which is summarized in the Comprehensive Plan Checklist (Appendix H).

The proposed Project and PAD Overlay District is consistent with the vision components of the Pinal County Comprehensive Plan, which include Sense of Community; Mobility and Connectivity; Economic Sustainability; Open Spaces and Places; Environmental Stewardship; Healthy, Happy Residents; and Quality Educational Opportunities.

H.1 Sense of Community

Planned land use for parcels adjacent to the Project Site include Moderate Low Density Residential and Very Low Density Residential, and Major Open Space land uses (see Figure 3). The amendment and current request for rezone and PAD Overlay District is consistent with the Sense of Community vision as described in the Pinal County Comprehensive Plan by consolidating energy facilities in an area that contains similar and compatible land uses.

H.2 Mobility and Connectivity

As described in Section D, traffic associated with construction and operation of a PV solar energy generation facility on the Project Site is intended to have minimal impact to planned land uses and the goals that address this vision.

H.3 Economic Sustainability

The Project would further promote economic diversity and employment opportunities in the area by providing direct and indirect employment during the construction and operation of the Project. According to the Economic Impact Analysis performed by Strategic Economic Research, Sonak Solar Project is projected to bring in over $27.9 million in new local earnings during construction for Pinal County, and another $653,000 in new local long-term earnings. In addition, the expected total property taxes paid over the 30-year lifetime of the Project are over $95.4 million. These funds can benefit county departments such as local schools, road and bridge and emergency management departments. Furthermore, power generated by the Project could support residential growth and job creation by providing clean, safe, affordable, and efficient electricity to local communities and the region. The Project will provide construction employment opportunities, which is considered an important employment sector for Pinal County (Pinal County 2021).

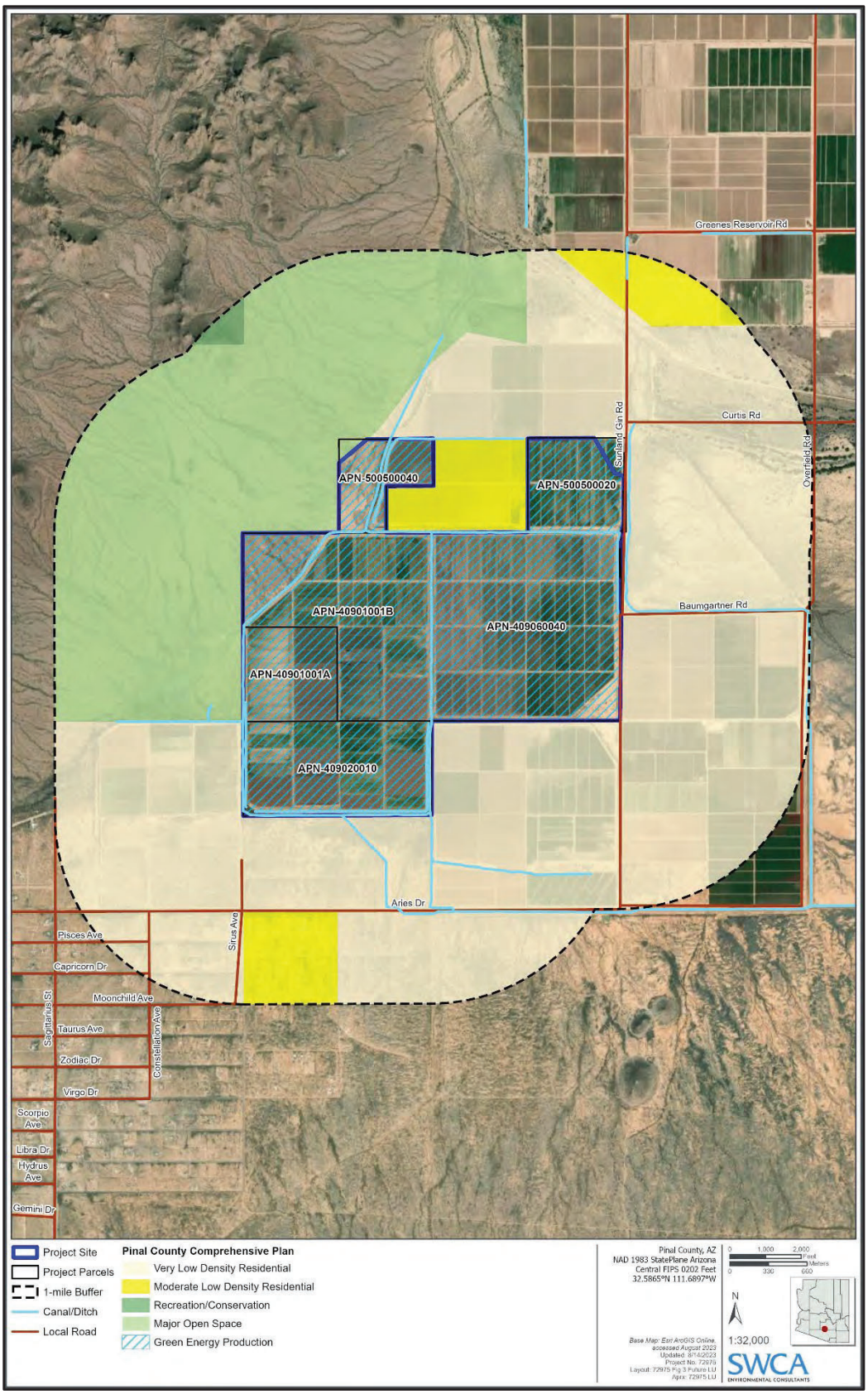


Figure 3. Planned land use within a 1-mile buffer of the Project Site.

H.4 Open Spaces and Places

There are no existing dedicated open space areas, designated scenic resources, or designated view corridors within the proposed PAD Overlay District. However, the Pinal County Comprehensive Plan (Pinal County 2021) and the Open Space and Trails Master Plan (Pinal County 2007) identify a proposed off-highway vehicle trail corridor that will run parallel to Sunland Gin Road, then curve and run parallel to West Pearce Road following a Pinal County riparian area, north of the Project Site. The Pinal County Comprehensive Plan identifies potential Open Space northwest of the Project Site (see Figure 3). Sonak Solar Project has reviewed the Pinal County Comprehensive Plan and has incorporated setbacks, as shown in the Development Plan (see Appendix A), from proposed Open Space that adjoins the Project Site. The Project is not expected to conflict with this proposed trail nor the planned land use. The area of Project Parcels designated as Major Open Space are not included in the PAD Overlay District and Project development is not proposed on that land.

H.5 Environmental Stewardship

Throughout initial Project planning, Sonak Solar Project has considered potential environmental impacts in Project plans and is committed to minimizing impacts to the human, natural, and cultural environments that may result from the Project. The Project will comply with all applicable federal, state, and local laws, regulations, and guidelines. PV solar panels minimize water use compared with other forms of electrical generation. Solar generation conserves natural resources, and BESS facilitates the integration of renewable resources into the power grid.

Numerous environmental studies have been conducted to date to inform Project design, including a Critical Issues Analysis, Threatened and Endangered Species Habitat Assessment, Cultural Resources Desktop Study, Wetland Delineation, and Phase I Environmental Site Assessment. An updated Arizona Game and Fish Department (AZGFD) Online Review tool was run on December 16, 2022 (Appendix I).

The Threatened and Endangered Species Habitat Assessment was conducted in 2021 and included a site visit on August 3, 2021 (Stantec 2022). Stantec identified the following federal and state threatened species that “Likely to Occur” or “May Occur” on the Project Site:

Species “Likely to Occur”:

- Bald eagle
- Burrowing owl
- Golden eagle
- Monarch butterfly

Species that “May Occur”:

- Southwestern willow flycatcher
- Yellow-billed cuckoo
- Sonoran desert tortoise

Coordination with the AZGFD and U.S. Fish and Wildlife Service was initiated in Fall 2022 and is ongoing. To date, the AZGFD is the only agency to respond with recommendations, which Sonak Solar Project is taking into consideration for development and mitigation measures.

A Cultural Resources Desktop Study was conducted in 2021 by Stantec (Stantec 2021b). There were no records of previous cultural resources surveys conducted within the Project Parcels. Records showed that several cultural resources studies have been conducted within 0.5 mile of the Project Parcels. In these surveys, two prehistoric sites were recorded within 0.5 mile of the Project Parcels. Based on the results of the study and past use of the Project Parcels, the report described the likelihood of surface and sub-surface prehistoric archaeological features as "low" due to the area's previous likely use as a reservoir. Historic period resources were considered more likely as there are historic and possible historic structures that surround the Project Parcels.

H.6 Healthy, Happy Residents

Factors that contribute to the Pinal County Comprehensive Plan's vision component for Healthy, Happy Residents include well-designed neighborhoods, the cost of housing and public services, and the availability of healthy foods (Pinal County 2021).

The Project will be consistent with this vision and will contribute to maintaining long-term financial stability (Goal 8.4) by generating tax revenues for Pinal County and by allowing the contribution of clean, safe, affordable, and efficient energy to the regional transmission grid. Additionally, the Project will be consistent with Goal 8.3 because Sonak Solar Project is committed to paying its proper and reasonable share of the costs of new infrastructure, services, and other public improvements that may be required for the Project (see Appendix H). The Project is projected to bring in over $27.9 million in new local earnings during construction for Pinal County, and another $653,000 in new local long-term earnings. In addition, the expected total property taxes paid over the 30-year lifetime of the Project are over $95.4 million.

H.7 Quality Educational Opportunities

The Sonak Solar Project anticipates paying property taxes to Pinal County and special districts, which will directly benefit the County's schools. In addition, Sonak Solar Project is committed to engaging directly with local schools regarding educational opportunities. Sonak Solar Project is in ongoing discussions with local colleges to potentially collaborate on workforce development, so that students have the opportunity to train for the local jobs that renewables facilities will generate. Sonak Solar Project anticipates working with local elementary, middle, and high schools to support STEM education as well.

I. RECREATION

Discuss recreational amenities and the level of service to be provided to residents of the PAD overlay zoning district.

The Project Site does not include any recreation sites to serve as it is closed to the public; there are no recreation opportunities proposed as part of the Project.

J. FENCING, WALLS, AND SCREENING

Illustrate the types, height and material of proposed perimeter fences, walls and/or screening.

Sonak Solar Project proposes to enclose the Project Facilities with a 6- to 8-foot-tall security fence.

Where the Project Site abuts streets with occupied buildings directly across the street, a 7-foot decorative fence (i.e., slatted chain link) and landscaping (See Section N below for details) will be placed between the Project Site and the occupied buildings (Appendix J). All other locations surrounding the Project facilities will be protected by a 6- to 8-foot-tall chain-link security fence topped with outward facing barbed wire (see Appendix A).

K. MAINTENANCE OF STREETS AND COMMON AREAS

The provisions for the perpetual maintenance of the private streets, common areas and landscaping should be thoroughly discussed.

The Project and its internal access roads will be restricted to authorized personnel only through security gates placed at public road access points. Sonak Solar Project will maintain the internal access roads as a component of the Project's overall schedule of routine maintenance. Sonak Solar Project's routine maintenance activities will include maintaining landscaping and vegetation on-site. Since the Project is a secured site with one use, it will not include common areas.

L. DWELLING UNITS

Total number of dwelling units.

There are no homes or other dwelling units proposed as part of the Project.

L.1 Maximum Residential Density of Each Planning Unit

Maximum residential density of each planning unit.

There are no homes or other dwelling units proposed as part of the Project.

M. PARKING SPACES FOR RECREATIONAL FACILITIES

Total number of parking spaces for recreational facilities.

There are no recreational facilities proposed as part of the Project.

N. LANDSCAPING

Type of landscaping.

Landscaping and decorative fencing (i.e., slatted chain link) will be applied at the southernmost and westernmost portions of the Project Site (see Appendix J). An industrial buffer, or increased distance from adjacent properties, will be applied where the Project Site abuts rural, residential, arterial, or collector roadways. Vegetation and landscaping plants will be selected in accordance with the Arizona Department of Water Resources' "Drought Tolerant/Low Water Use Plant List." Portions of the areas around the Project Site will utilize existing landscaping or be landscaped to control and mitigate dust dispersal, and to meet the applicable Development Code requirements.

Landscaping screening in southern portions of the project boundary will consist of container-grown shrubs and accents (nursery stock) that are native or adapted to the desert environment. The proposed species demonstrate drought tolerance and are therefore anticipated to establish naturally.

In addition to the nursery stock plantings, an appropriate desert seed mix will be applied to disturbed areas after completion of Project construction. The new landscaped area will have a minimum 2-inch-deep layer of decomposed granite inert mulch to improve the visual appeal of the zone, contribute to dust control, and serve as a mulch to reduce water loss through evaporation.

O. PRELIMINARY HYDROLOGIC DATA

Preliminary hydrologic data and a statement as to whether or not natural drainage courses are to be obstructed or disturbed or if regulatory natural floodplains are to be altered or fitted.

Sonak Solar Project has commissioned a preliminary hydrology and drainage assessment of the Project Site (see Appendix E). The Drainage Report includes an analysis of peak flows and flood risks across the Project Site. Sonak Solar Project plans to use the Drainage Report to inform the design requirements and sizing of stormwater management structures.

Prior to construction, Sonak Solar Project will apply for coverage under the Arizona Pollutant Discharge Elimination System Construction General Permit and develop a Stormwater Pollution Prevention Plan in accordance with the requirements of that permit to cover the construction period.

No Special Flood Hazard Areas (100-year floodplains) have been identified by the Federal Emergency Management Agency or the Flood Control District of Pinal County on the Project Site considered within this application. As such, the Project will not alter or fill any regulated floodplain areas.

P. DEVELOPMENT STANDARDS (ADDITIONAL INFORMATION FOR INDUSTRIAL USES AND TABLES)

P.1 Total Area

The total area in acres proposed for commercial/industrial development.

The proposed rezone will encompass the entirety of the parcels listed in Table 1, which totals 1,887.5 acres. The proposed PAD District Overlay encompasses the entirety of the parcels listed in Table 1 that are currently designated for Green Energy Production, which totals 1,866.6 acres. See Appendix C for legal descriptions of the rezone and PAD District Overlay areas.

P.2 Retail Area

The approximate retail sales floor area of commercial uses.

There are no retail sales of commercial uses proposed as part of the Project.

P.3 Uses Proposed for the PAD

The uses proposed to be included in the development shall be selected from the uses permitted in the base zone. Uses from the base zoning can be deleted but new uses cannot be added.

As previously stated, Sonak Solar Project proposes to rezone the Project Parcels from the various zoning districts currently in place to I-3 with the Project Site also including a PAD Overlay District.
The proposed use is Power Plant, which includes PV solar generation and BESS with associated Project Facilities.

Q. TABLES

Q.1 Land Use

A land use table or tables to include the following: (1) Total acreage of the site; (2) Total area of arterial and collector streets; (3) Total area and percent of open space; (4) Total number of each type of dwelling unit; (5) Total number of all dwelling units proposed including the range and mixture of lot sizes within each base zone; and (6) The overall proposed density.

Table 2. Land Use

Project Land Use	Feature Count
Total gross acreage of site	1,887.5
Total area of arterial and collector streets	0
Total area and percent of open space	0
Total number of each type of dwelling unit	0
Total number of all dwelling units proposed including the range and mixture of lot sizes within each base zone	0
Overall proposed density	N/A

This is an unmanned facility secured from public access. Small maintenance crews who visit the site infrequently will park on the private internal access roads, typically adjacent to the areas in which they are working. Due to the limited access and use of the Project Site, no open space, pedestrian and vehicle circulation, off-street parking and loading, signs, or nuisance control standards are proposed.

Q.2 Amended Development Standards

Amended development standards table that lists proposed zoning and compares code standards and proposed standards for minimum lot area, minimum lot width, minimum building setbacks, maximum building height, minimum distance between main building and detached accessory buildings, and buildable area. In order to amend a development standard, the proposed amended standard must be listed on this table.

Table 3. Amended Development Standards

Development Standards	Existing I-3 Standards	Proposed (I-3/Solar PAD)
Minimum lot area	None	N/A
Minimum lot width	None	N/A
Minimum building setbacks	20 feet front setback (with exceptions)	50 feet
	25 feet where development abuts a rural or a residential district:	
	0 feet where development abuts any other district	
Minimum building height	50 feet	The maximum height standard for the Project PV solar facilities, BESS, and affiliated infrastructure is proposed to be 12 feet. The Project gen-tie transmission line structures are expected to be between 90 and 100 feet tall; however, Pinal County Development Services Code Chapter 2.150.050 notes that height limits shall not apply to “electric power transmission towers.”
Minimum distance between main and detached accessory buildings	7 feet	7 feet
Buildable area		1,866.6 acres (PAD Overlay District)

Q.3 Amended Use

Amended permitted use table showing proposed zoning and uses that will not be permitted in the PAD.

Table 4. Amended Use

Permitted Uses	Non-Permitted Uses
Power Plants: -PV solar generation facility	Adult-oriented businesses and adult service providers
-Electrical energy storage (battery)	Airport or landing strip
-Ancillary facilities	Gasoline or flammables bulk station
	Government structures, fire district stations, sheriff's facilities, and their accessory uses
	Heliport
	Impounded or towed vehicle storage yard
	Junk, salvage, or auto wrecking yards
	Landfill and transfer stations
	Manufacture, maintenance, assembling, painting, upholstery, compounding, processing, packaging, or treatment operations.
	Prisons, detention facilities, and their accessory uses
	Private schools
	Restaurant
	Sports arena

Permitted Uses	Non-Permitted Uses
	Vocational schools
	Wireless communication facilities
	Heavy truck storage, repair, service, staging and point of operation for trucking operations, and their accessory equipment.

Q.4 Proposed Utilities and Services

A table which lists the type and source of proposed utilities and services which include sewer, water, electric, telephone, police, fire, schools and solid waste disposal.

Table 5. Proposed Utilities and Public Services

Utility	Description
Sewer	A septic system will be installed on-site, or portable toilets will be used.
Water	Central Arizona Irrigation and Drainage District: Water for construction and operations is anticipated to be trucked to the Project from off-site. Any water from on-site wells, existing or new, will be coordinated with and permitted through the CAIDD.
Electric	Arizona Public Service, Tucson Electric Power, or Electric District 4: During construction, power will be supplied by portable generators. During operation, facility will produce electric and its needs will be supplied either by a backfeed power agreement with the utility purchasing electricity from the site, or through a retail account with the local electric utility.
Telephone	Cellular service (AT&T or similar): Landline phone service is not anticipated to be needed at the Project Site. A local telephone company will be contracted if that needs changes.
Police	Pinal County Sheriff's Office: This office provides law enforcement services in the Project/PAD area. No change to this service will be required.
Fire/emergency medical service	Regional Fire and Rescue Department: Anticipate securing subscription-based service.
Schools	Eloy Elementary School District; Santa Cruz Valley Unified High School District: The Project is not expected to increase demand on local school districts.
Solid waste disposal	Local waste disposal/recycling facilities.

R. LITERATURE CITED

Pinal County. 2007. *Pinal County Open Space and Trails Master Plan*. Available at: https://www.pinalcountyaz.gov/openspacetrails/documents/final%20open%20space%20and%20trails%20master%20plan.pdf. Accessed August 2022.

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Stantec. 2021a. *Wetland and Waterbody Delineation Report for the Sonak Solar Project, Pinal County*, Arizona. September 20, 2021.

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———. 2022. *Preliminary Threatened and Endangered Species Habitat Assessment*, Arizona. February 3, 2022.

APPENDIX A

Development Plan

PRELIMINARY SITE PLAN

PREPARED FOR

SONAK SOLAR PROJECT, LLC.

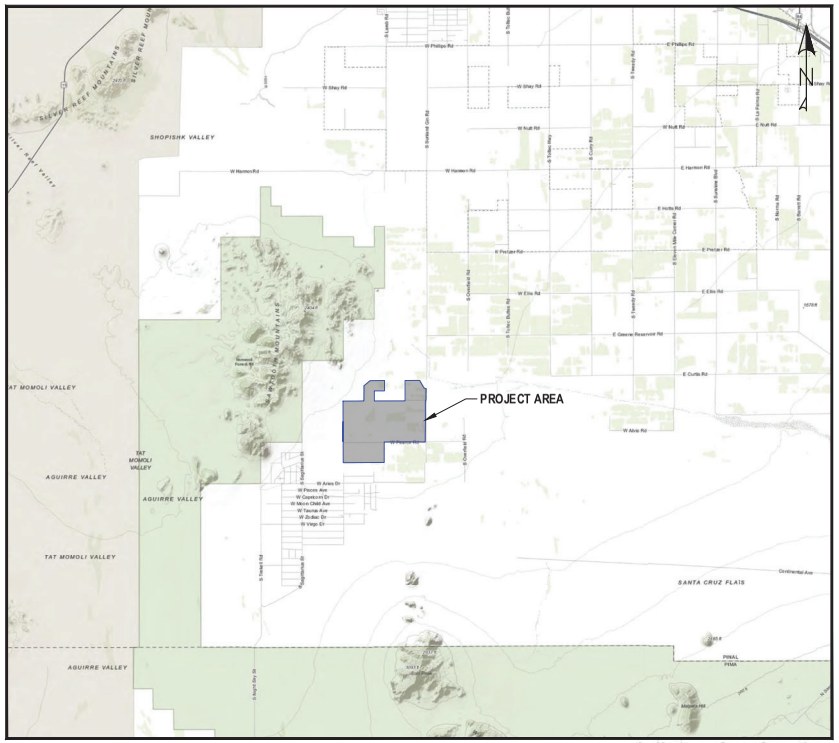
FOR THE

PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT

PINAL COUNTY, ARIZONA

LIST OF DRAWINGS

Page Number	Sheet Number	Sheet Title
1	001	COVER SHEET
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23	209	GRADING AND ESC PLAN - 9
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25	302	DETAILS - 2



LOCATION MAP

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

PROJECT: PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
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UTILIZATION SCOPE: TITLE: COVER SHEET

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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

41953 CHRISTOPHER C. MOORE — Registered Professional Engineer — ARIZONA — Expires 3/31/26

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OWNER/APPLICANT/DEVELOPER: SONAK SOLAR PROJECT, LLC.
16105 W 113TH ST
LENEXA, KS 66219
913-888-9463

PLAN PREPARER: WSP USA INC.
350 EAGLEVIEW BLVD, SUITE 250
EXTON, PA 19341-1178
610-280-4020

GENERAL NOTES:

1. SITE PARCEL BOUNDARIES SHOWN WERE TAKEN FROM AVAILABLE TAX MAPS.
2. TOPOGRAPHIC DATA WAS TAKEN FROM AVAILABLE LIDAR INFORMATION FROM ARCGIS 2015.
3. PROJECT VERTICAL DATUM IS NAVD88.
4. ALTA SURVEY CONDUCTED BY OLSSON ON 11-24-2021.

SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN ARIZONA.
3. THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
4. ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE ARIZONA STANDARDS AND THEIR RATES SHOULD BE INCLUDED IN THE NARRATIVE. IF THE SEASON PROHIBIT TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE ARIZONA STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
5. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION AND RATES OF APPLICATION AT THE REQUEST OF THE SOIL CONSERVATION DISTRICT.
6. ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE ARIZONA STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
7. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
8. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EVERY STORM EVENT.
9. A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE STABILIZED PAD WILL BE INSTALLED ACCORDING TO THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS.
10. ALL DRIVEWAYS MUST BE STABILIZED WITH 2 ½" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
11. PAVED AREAS MUST BE KEPT CLEAN AT ALL TIMES.
12. ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN.
13. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
14. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE SEDIMENT FILTER FABRIC. (SEE DETAIL). THE BASIN MUST BE DEWATERED TO NORMAL POOL WITHIN 10 DAYS OF THE DESIGN STORM.
15. MULCHING IS REQUIRED ON ALL SEEDED AREAS TO INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATION COVER.
16. OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
17. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
18. THE SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY LAND DISTURBANCE.
19. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.
20. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO THE STANDARD FOR TEMPORARY VEGETATIVE COVER. STABILIZE TOPSOIL STOCKPILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING. ALL SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH A SEDIMENT BARRIER.
21. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT ARIZONA STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
22. METHODS FOR THE MANAGEMENT OF HIGH ACID PRODUCING SOILS SHALL BE IN ACCORDANCE WITH THE STANDARDS. HIGH ACID PRODUCING SOILS ARE THOSE FOUND TO CONTAIN IRON SULFIDES OR HAVE A pH OF 4 OR LESS.
23. TEMPORARY AND PERMANENT SEEDING MEASURES MUST BE APPLIED ACCORDING TO THE ARIZONA STANDARDS, AND MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE ARIZONA STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
24. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
25. DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE ARIZONA STANDARDS AND MAY INCLUDE WATERING WITH A SOLUTION OF CALCIUM CHLORIDE AND WATER.
26. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
27. USE STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
28. ALL VEGETATIVE MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF THE NURSERYMAN AND IN ACCORDANCE WITH THE ARIZONA STANDARDS.
29. NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPING PLAN.
30. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.

GENERAL SEQUENCE OF CONSTRUCTION & BMP INSTALLATION AND REMOVAL

1. MARK OUT THE LIMIT OF DISTURBANCE IN THE FIELD PRIOR TO START OF CONSTRUCTION ACTIVITIES.
2. INSTALL ROCK CONSTRUCTION ENTRANCE AT THE LOCATION SHOWN ON THE PLAN DRAWINGS.
3. INSTALL PERIMETER SILT FENCE AS INDICATED ON THE PLAN DRAWINGS.
4. INSTALL HIGH VISIBILITY ORANGE CONSTRUCTION FENCE AS INDICATED ON THE PLAN DRAWINGS.
5. PERFORM VEGETATION CLEARING AND DEMOLITION OF STRUCTURES AND OTHER FEATURES AS INDICATED ON THE PLAN DRAWINGS.
6. ESTABLISH ACCESS THROUGHOUT THE SITE. STABILIZE ACCESS ROADS FOR TEMPORARY OR PERMANENT USE AS NEEDED.
7. STRIP THE TOPSOIL AS NEEDED, AND STORE AT THE STOCKPILE LOCATIONS INDICATED ON THE PLAN DRAWINGS.
8. PERFORM EARTH GRADING WORK. EROSION CONTROL BLANKETING IS TO BE PLACED ON SLOPES 3H:1V OR GREATER. GRADED AREAS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED AS INDICATED ON THE PLAN DRAWINGS.
9. PERFORM PHOTOVOLTAIC ARRAY CONSTRUCTION. EXCAVATED SOILS SHALL BE STOCKPILED AND TEMPORARILY STABILIZED OR HAULED OFF-SITE.
10. TOPSOIL FROM THE REMAINDER OF THE SITE MAY NOT BE STRIPPED UNTIL COLLECTION SWALES ARE INSTALLED AND FUNCTIONING PROPERLY.
11. CONSTRUCT COLLECTION CHANNELS WITHIN A 4 DAY TIME PERIOD WHERE NO RAIN EVENT IS IN THE FORECAST. IMMEDIATELY STABILIZE WITH EROSION CONTROL BLANKET OR RIP-RAP AS INDICATED ON THE PLANS, MULCHING AND SEEDING.
12. ONCE SWALES, CULVERTS, AND PERIMETER BMP CONTROLS HAVE BEEN INSTALLED AND CONFIRMED FUNCTIONING PROPERLY, THE EARTHWORK FOR THE SUBSTATION PAD MAY COMMENCE.
13. COMPLETE SUBSTATION ROUGH GRADING.
14. FINAL GRADED AREAS SHALL BE IMMEDIATELY STABILIZED WITH EROSION CONTROL BLANKETING OR RIPRAP OR GRAVEL SURFACE AS SHOWN THEN SEEDED.
15. COMPLETE CONSTRUCTION OF THE SUBSTATION YARD AND ASSOCIATED EQUIPMENT.
16. ANY AREA WHERE ACTIVE GRADING HAS CEASED WHICH WILL ALLOW SOIL TO BE EXPOSED MUST BE TEMPORARILY SEEDED AND MULCHED IMMEDIATELY.
17. REMOVE ROCK CONSTRUCTION ENTRANCE, ORANGE CONSTRUCTION FENCE, AND SILT FENCE. STABILIZE AREAS DISTURBED BY THE BMP REMOVAL OPERATIONS.

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

Registered Professional Engineer 41953 CHRISTOPHER C. MOORE ARIZONA U.S.A. Expires 3/31/26

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TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION:

DEFINITION
ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER ON SOILS EXPOSED FOR PERIODS OF TWO TO 6 MONTHS WHICH ARE NOT BEING GRADED, NOT UNDER ACTIVE CONSTRUCTION OR NOT SCHEDULED FOR PERMANENT SEEDING WITHIN 60 DAYS.

PURPOSE
TO TEMPORARILY STABILIZE THE SOIL AND REDUCE DAMAGE FROM WIND AND WATER EROSION UNTIL PERMANENT STABILIZATION IS ACCOMPLISHED.

WATER QUALITY ENHANCEMENT
PROVIDES TEMPORARY PROTECTION AGAINST THE IMPACTS OF WIND AND RAIN, SLOWS THE OVER LAND MOVEMENT OF STORMWATER RUNOFF, INCREASES INFILTRATION AND RETAINS SOIL AND NUTRIENTS ON SITE, PROTECTING STREAMS OR OTHER STORMWATER CONVEYANCES.

WHERE APPLICABLE
ON EXPOSED SOILS THAT HAVE THE POTENTIAL FOR CAUSING OFF-SITE ENVIRONMENTAL DAMAGE.

METHODS AND MATERIALS

1. SITE PREPARATION
   - A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.
   - B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.
   - C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
2. SEEDBED PREPARATION
   - A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIMESTONE AT THE RATE OF 2 TONS/ACRE UNLESS SOIL TESTING INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES.
   - B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
   - C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN ACCORDANCE WITH THE ABOVE.
   - D. SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, PG. 1-1.
3. SEEDING
   - A. APPLY PERRENIAL RYEGRASS SEED AT 1 LB. PER 1000 SQ. FT. BETWEEN MARCH 1ST AND MAY 15TH, OR AUGUST 15TH AND OCTOBER 1ST, AT A DEPTH 0.5 INCHES. APPLY ANNUAL RYEGRASS SEED AT 1 LB. PER 1000 SQ. FT. BETWEEN MARCH 15TH AND JUNE 1ST, OR AUGUST 1ST AND SEPTEMBER 15TH, AT A DEPTH 0.5 INCHES.
   - B. CONVENTIONAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.
   - C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION IV MULCHING) HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.
   - D. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.
4. MULCHING
   MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.
   - A. STRAW OR HAY. UNNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.
     APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
     ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.
     1) PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRIS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
     2) MULCH NETTINGS. STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
     3) CRIMPER (MULCH ANCHORING TOOL). A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
     4) LIQUID MULCH-BINDERS. – MAY BE USED TO ANCHOR HAY OR STRAW MULCH.
        - (A) APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.
        - (B) USE ONE OF THE FOLLOWING:
          - (1) ORGANIC AND VEGETABLE BASED) BINDERS – NATURALLY OCCURRING, POWDER BASED, HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE.
          - (2) SYNTHETIC BINDERS – HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND FOLLOWING APPLICATION TO MULCH, DRYING AND CURING SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.
            NOTE: ALL NAMES GIVE ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A COMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.
   - B. WOOD-FIBER OR PAPER-FIBER MULCH. SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PROJECT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
   - C. PELLETIZED MULCH. COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORMA MULCH MAT. PELLETIZED MULCH SHALL BE APPLIES IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS./1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEE FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEED-SEED FREE MULCH IS DESIRED OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE.
     APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION:

DEFINITION
ESTABLISHMENT OF PERMANENT VEGETATIVE COVER ON EXPOSED SOILS WHERE PERENNIAL VEGETATION IS NEEDED FOR LONG-TERM PROTECTION.

PURPOSE
TO PERMANENTLY STABILIZE THE SOIL, ENSURING CONSERVATION OF SOIL AND WATER, AND TO ENHANCE THE ENVIRONMENT.

WATER QUALITY ENHANCEMENT
SLOWS THE OVER-LAND MOVEMENT OF STORMWATER RUNOFF, INCREASES INFILTRATION AND RETAINS SOIL AND NUTRIENTS ON SITE, PROTECTING STREAMS OR OTHER STORMWATER CONVEYANCES.

WHERE APPLICABLE
ON EXPOSED SOILS THAT HAVE A POTENTIAL FOR CAUSING OFF-SITE ENVIRONMENTAL DAMAGE.

METHODS AND MATERIALS

1. SITE PREPARATION
   - A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING.
   - B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING.
   - C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.
   - D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
2. SEEDBED PREPARATION
   - A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING.
   - B. WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
   - C. HIGH ACID PRODUCING SOIL. SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDBED REPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.
3. SEEDING
   - A. APPLY HARD FESCUE SEED AT 3 LB. PER 1000 SQ. FT. APPLY CHEWINGS FESCUE SEED AT 1 LB. PER 1000 SQ. FT. APPLY STRONG CREEPING RED FESCUE SEED AT 1 LB. PER 1000 SQ. FT. APPLY PERRENIAL RYEGRASS SEED AT 0.25 LB. PER 1000 SQ. FT. SEED GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTHS OLD UNLESS RETESTED.
     1) SEEDING RATES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO A REPORT OF COMPLIANCE INSPECTION. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVERAGE WITH THE SPECIFIED SEED MIXTURE FOR THE SEEDED AREA AND MOWED ONCE.
     2) WARM-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES, GENERALLY 850 F AND ABOVE. SEE TABLE 4-3 MIXTURES 1 TO 7. PLANTING RATES FOR WARM-SEASON GRASSES SHALL BE THE AMOUNT OF PURE LIVE SEED (PLS) AS DETERMINED BY GERMINATION TESTING RESULTS.
     3) COOL-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 850F. MANY GRASSES BECOME ACTIVE AT 650F. SEE TABLE 4-3, MIXTURES 8-20. ADJUSTMENT OF PLANTING RATES TO COMPENSATE FOR THE AMOUNT OF PLS IS NOT REQUIRED FOR COOL SEASON GRASSES.
   - B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL.
   - C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.
   - D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT-FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.
4. MULCHING
   MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL PROTECT AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.
   - A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, TO BE APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.
     APPLICATION – SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT AT LEAST 85% OF THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
     ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.
     1) PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
     2) MULCH NETTINGS – STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
     3) CRIMPER (MULCH ANCHORING COULTER TOOL) – A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
     4) LIQUID MULCH-BINDERS – MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCH.
        - (A) APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.
        - (B) USE ONE OF THE FOLLOWING:
          - (1) ORGANIC AND VEGETABLE BASED BINDERS – NATURALLY OCCURRING, POWDER-BASED, HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURF GRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE.
          - (2) SYNTHETIC BINDERS – HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND, FOLLOWING APPLICATION OF MULCH, DRYING AND CURING, SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. BINDER SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.
            NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.
   - B. WOOD-FIBER OR PAPER-FIBER MULCH – SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
   - C. PELLETIZED MULCH – COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS./1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEED-SEED FREE MULCH IS DESIRED, OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE. APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.
5. IRRIGATION (WHERE FEASIBLE)
   IF SOIL MOISTURE IS DEFICIENT SUPPLY NEW SEEDING WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH APPLIED UP TO TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.
6. TOPDRESSING
   SINCE SOIL ORGANIC MATTER CONTENT AND SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) ARE PRESCRIBED IN SECTION 2A – SEEDBED PREPARATION IN THIS STANDARD, NO FOLLOW-UP OF TOPDRESSING IS MANDATORY. AN EXCEPTION MAY BE MADE WHERE GROSS NITROGEN DEFICIENCY EXISTS IN THE SOIL TO THE EXTENT THAT TURF FAILURE MAY DEVELOP. IN THAT INSTANCE, TOPDRESS WITH 10-10-10 OR EQUIVALENT AT 300 POUNDS PER ACRE OR 7 POUNDS PER 1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS AMELIORATED.
7. ESTABLISHING PERMANENT VEGETATIVE STABILIZATION
   THE QUALITY OF PERMANENT VEGETATION RESTS WITH THE CONTRACTOR. THE TIMING OF SEEDING, PREPARING THE SEEDBED, APPLYING NUTRIENTS, MULCH AND OTHER MANAGEMENT ARE ESSENTIAL. UP TO 50% REDUCTION IN APPLICATION RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO REQUESTING A REPORT OF COMPLIANCE FROM THE SOIL CONSERVATION DISTRICT. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVER (OF THE SEEDED SPECIES) AND MOWED ONCE. NOTE THIS DESIGNATION OF MOWED ONCE DOES NOT GUARANTEE THE PERMANENCY OF THE TURF SHOULD OTHER MAINTENANCE FACTORS BE NEGLECTED OR OTHERWISE MISMANAGED.



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DRAWING CERTIFICATION

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EGP VALIDATION

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PROJECT:
PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
	ANSI D	AS SHOWN	22"x34"	003	3

UTILIZATION SCOPE:

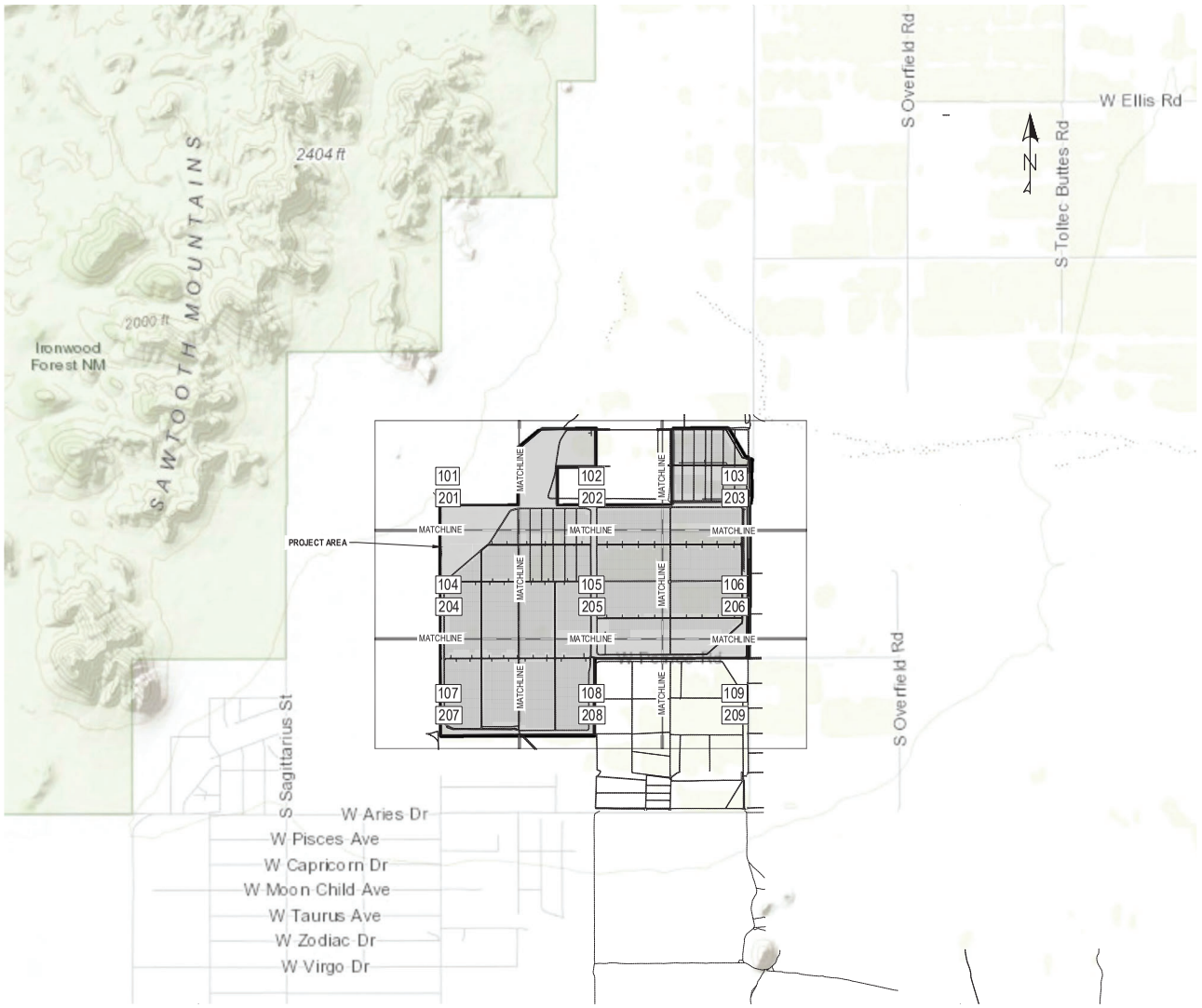
TITLE:
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EGP CODE

GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

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PARCEL INFORMATION				
PARCEL OWNER	PARCEL ID	ZONING DESIGNATION - EXISTING	ZONING DESIGNATION - PROPOSED	ACREAGE IN PROJECT
ARNOLDO & BURRUEL	409-02-0010	GR, SR, CI-2, CR-2	I-3	320.1
ARNOLDO & BURRUEL	409-01-001A	GR, SR, CR-2, CR-3	I-3	160.1
ARNOLDO & BURRUEL	409-01-001B	GR, SR, CR-3, CR-4, CR-5, CB-1	I-3	480.0
ARNOLDO & BURRUEL	409-06-0040	GR, SR, CR-3, CR-5	I-3	640.9
ARNOLDO & BURRUEL	500-50-0020	GR, SR, CB-2, CR-3	I-3	166.9
ARNOLDO & BURRUEL	500-50-0040	GR, SR, CR-3, CR-5	I-3	120.5



2000 0 2000 4000
scale feet
1" = 2000'

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

PROJECT:
PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
	ANSI D	AS SHOWN	22"x34"	004	4

UTILIZATION SCOPE:

TITLE:
KEY PLAN

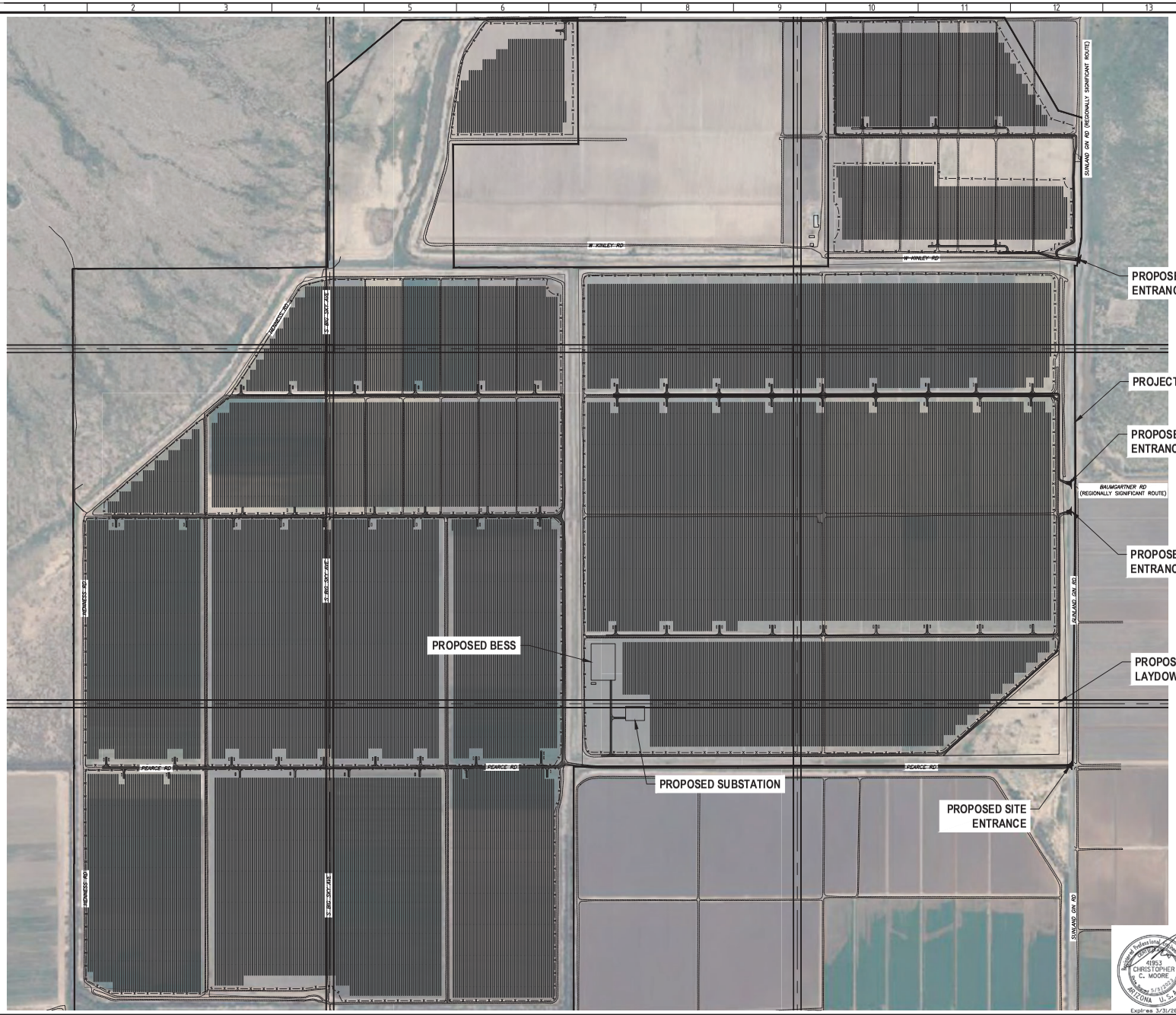
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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

Registered Professional Engineer
41953
CHRISTOPHER C. MOORE
ARIZONA
Expires 3/31/26

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PROJECT:
PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
	ANSI D	AS SHOWN	22"x34"	005	5

UTILIZATION SCOPE:

TITLE:
OVERALL SITE PLAN

Engineering & Construction

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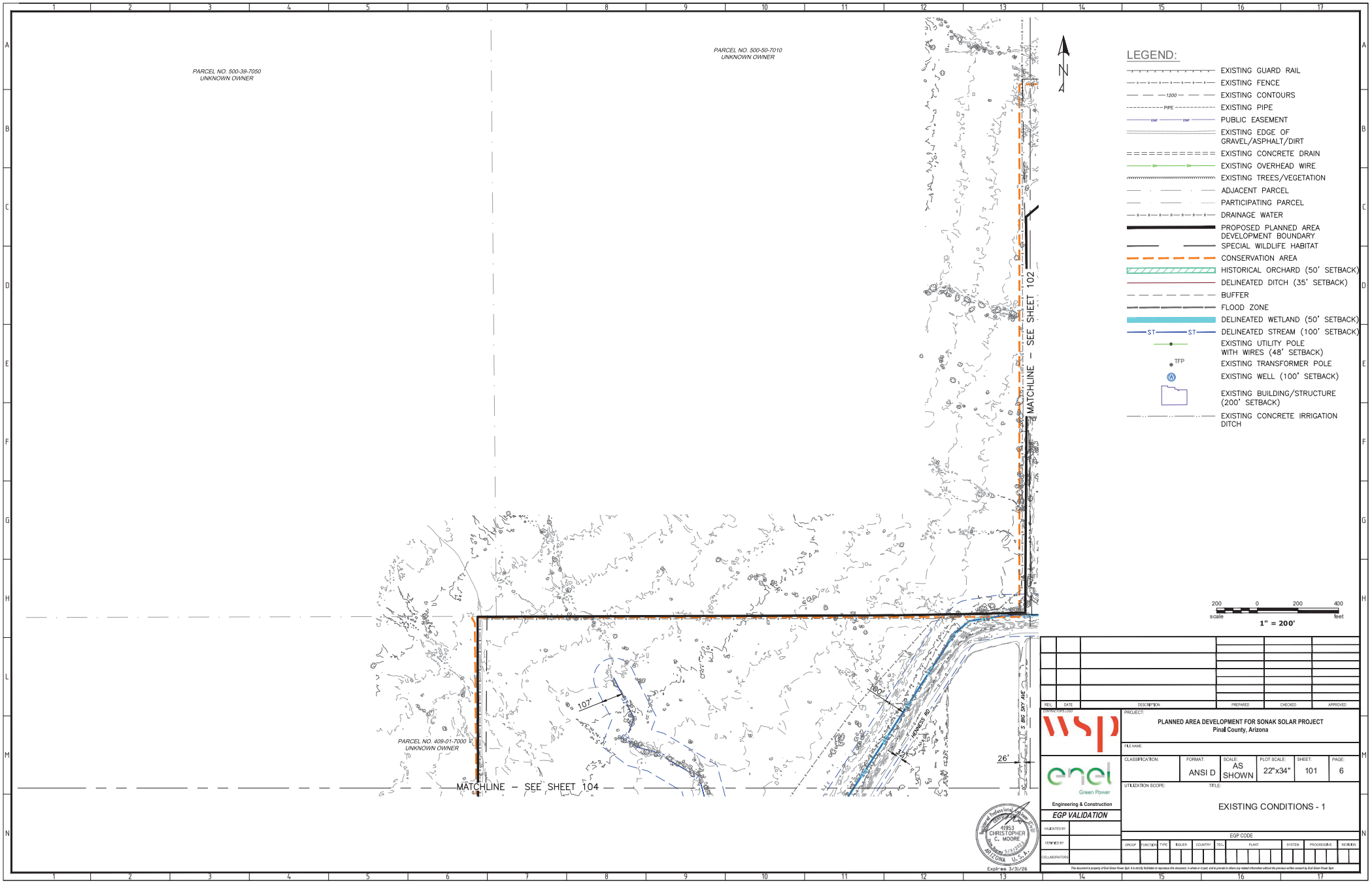
COLLABORATORS

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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

Registered Professional Engineer
41953
CHRISTOPHER C. MOORE
ARIZONA
Expires 3/31/26

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REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

PROJECT:
PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
	ANSI D	AS SHOWN	22"x34"	101	6

UTILIZATION SCOPE:

TITLE:
EXISTING CONDITIONS - 1

Engineering & Construction
EGP VALIDATION

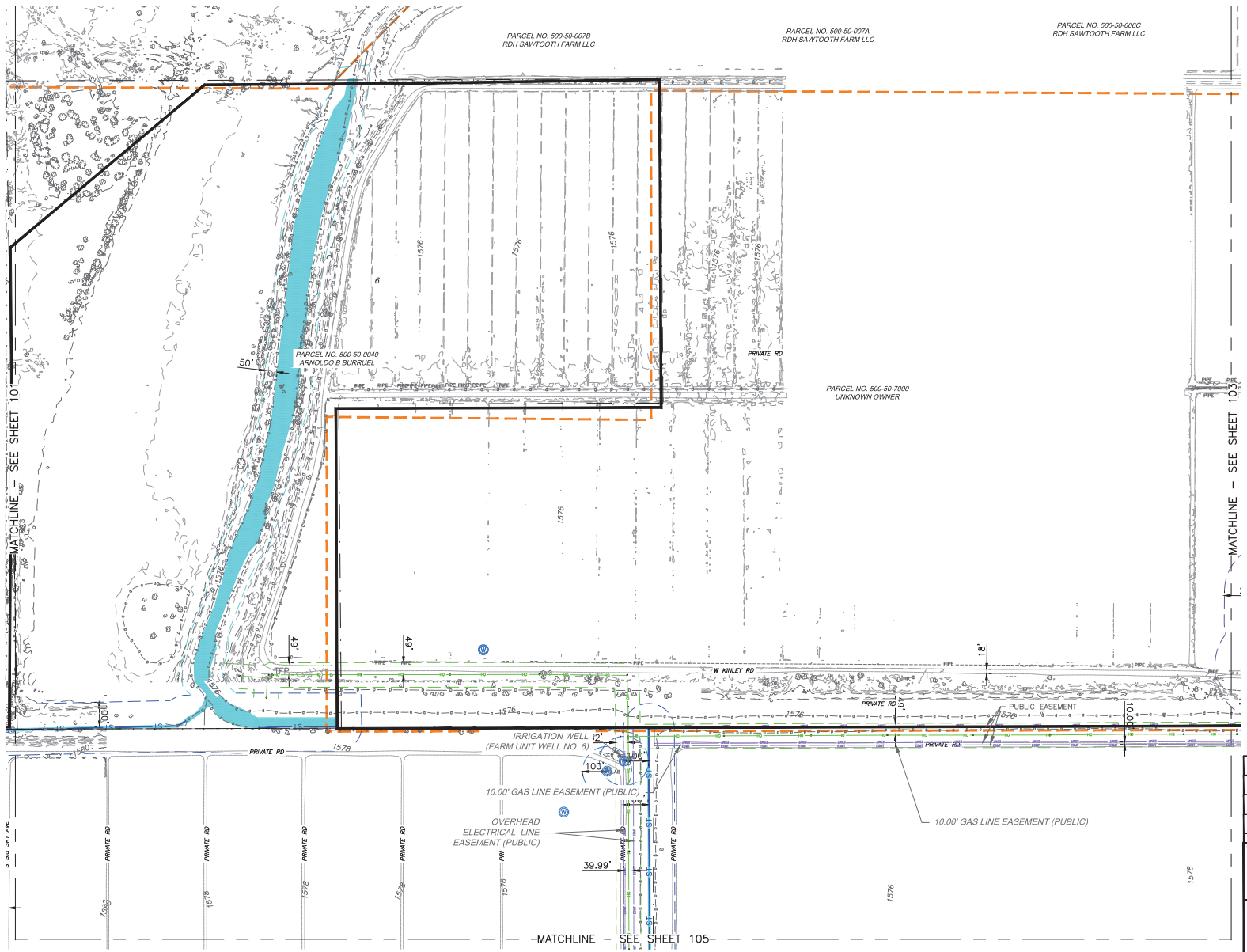
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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

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LEGEND:

- EXISTING GUARD RAIL
- EXISTING FENCE
- EXISTING CONTOURS
- EXISTING PIPE
- PUBLIC EASEMENT
- EXISTING EDGE OF GRAVEL/ASPHALT/DIRT
- EXISTING CONCRETE DRAIN
- EXISTING OVERHEAD WIRE
- EXISTING TREES/VEGETATION
- ADJACENT PARCEL
- PARTICIPATING PARCEL
- DRAINAGE WATER
- PROPOSED PLANNED AREA DEVELOPMENT BOUNDARY
- SPECIAL WILDLIFE HABITAT
- CONSERVATION AREA
- HISTORICAL ORCHARD (50' SETBACK)
- DELINEATED DITCH (35' SETBACK)
- BUFFER
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- DELINEATED STREAM (100' SETBACK)
- EXISTING UTILITY POLE WITH WIRES (48' SETBACK)
- EXISTING TRANSFORMER POLE
- EXISTING WELL (100' SETBACK)
- EXISTING BUILDING/STRUCTURE (200' SETBACK)
- EXISTING CONCRETE IRRIGATION DITCH

scale 200 0 200 400 feet
1" = 200'

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

PROJECT:
PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
	ANSI D	AS SHOWN	22"x34"	102	7

UTILIZATION SCOPE:

TITLE:
EXISTING CONDITIONS - 2

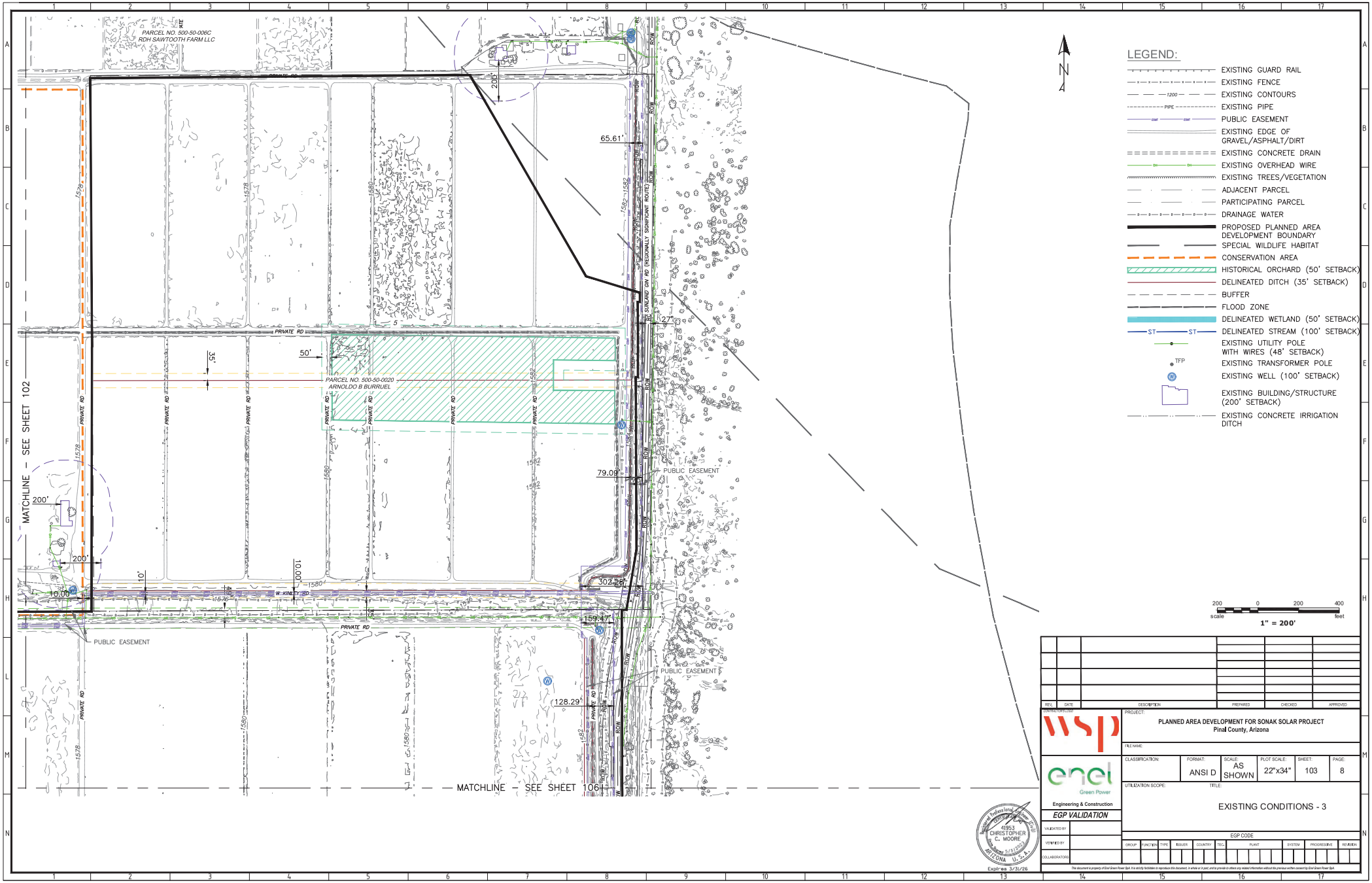
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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

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- EXISTING TRANSFORMER POLE
- EXISTING WELL (100' SETBACK)
- EXISTING BUILDING/STRUCTURE (200' SETBACK)
- EXISTING CONCRETE IRRIGATION DITCH

200 0 200 400
scale feet
1" = 200'

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

PROJECT: PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
	ANSI D	AS SHOWN	22"x34"	103	8

UTILIZATION SCOPE:

TITLE: EXISTING CONDITIONS - 3

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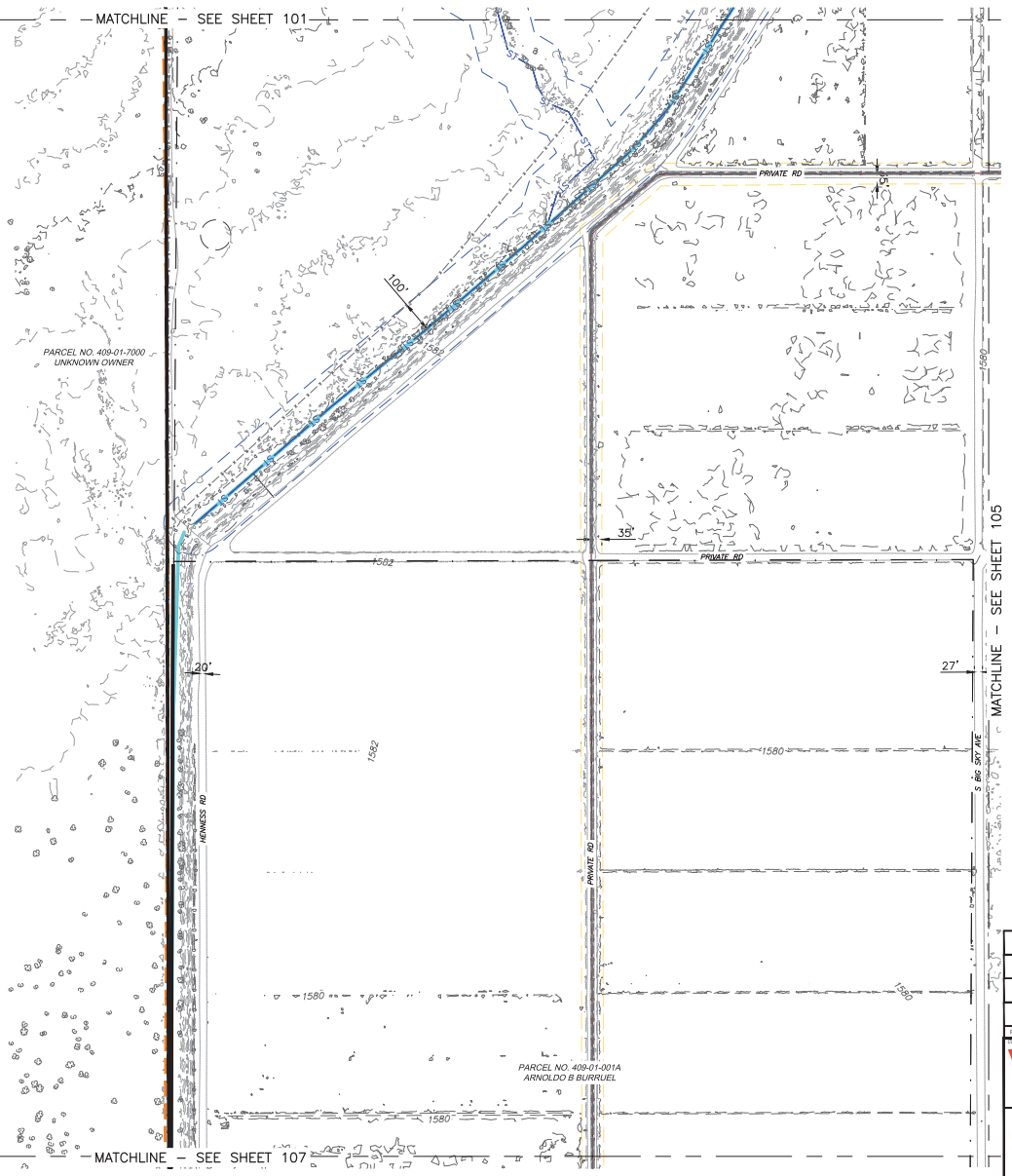
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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

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- EXISTING BUILDING/STRUCTURE (200' SETBACK)
- EXISTING CONCRETE IRRIGATION DITCH

200 0 200 400
scale feet
1" = 200'

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

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PROJECT:
PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
	ANSI D	AS SHOWN	22"x34"	104	9

UTILIZATION SCOPE:

TITLE:
EXISTING CONDITIONS - 4

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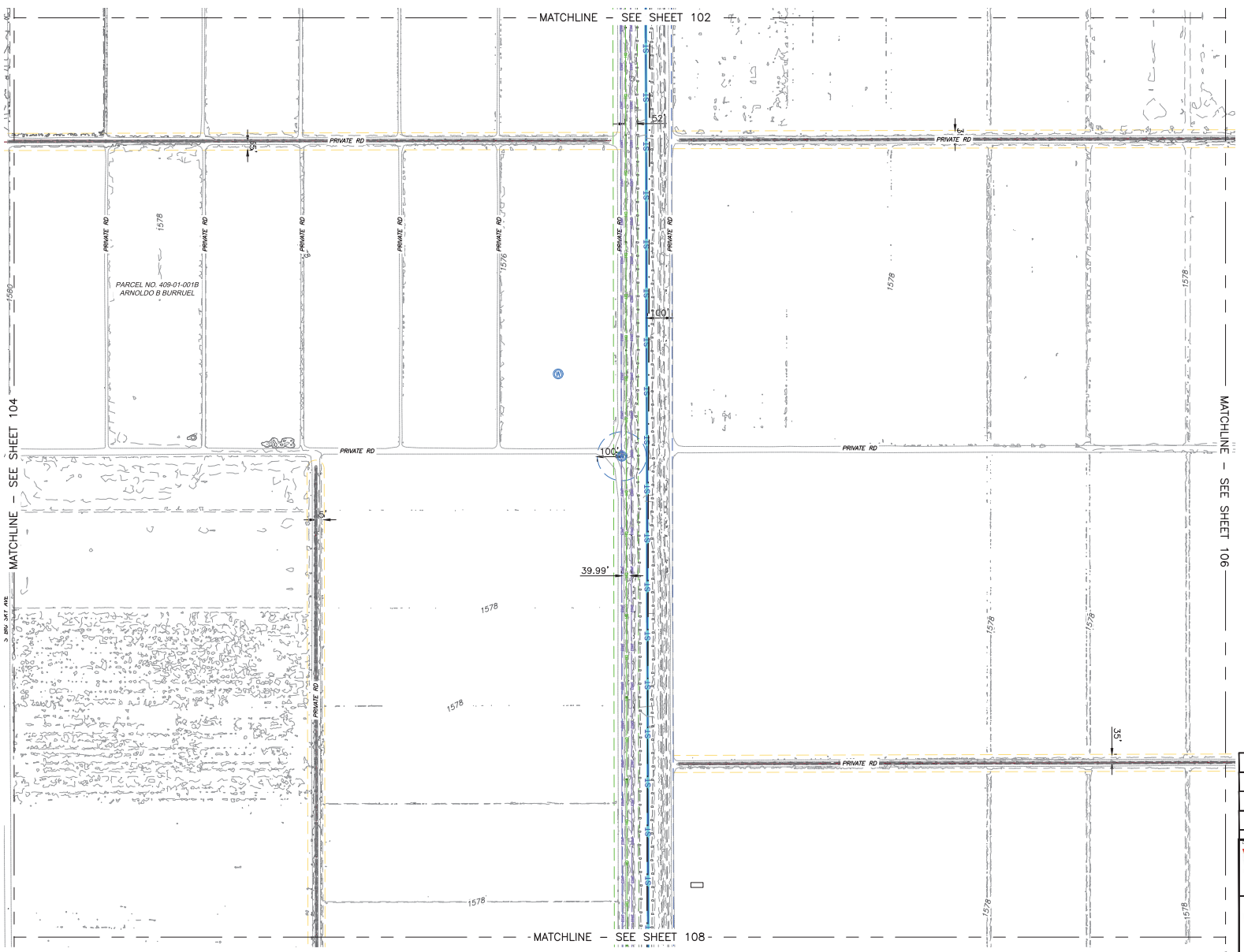
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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

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- EXISTING BUILDING/STRUCTURE (200' SETBACK)
- EXISTING CONCRETE IRRIGATION DITCH

200 0 200 400
scale feet
1" = 200'

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

PROJECT:
PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
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UTILIZATION SCOPE:

TITLE:
EXISTING CONDITIONS - 5

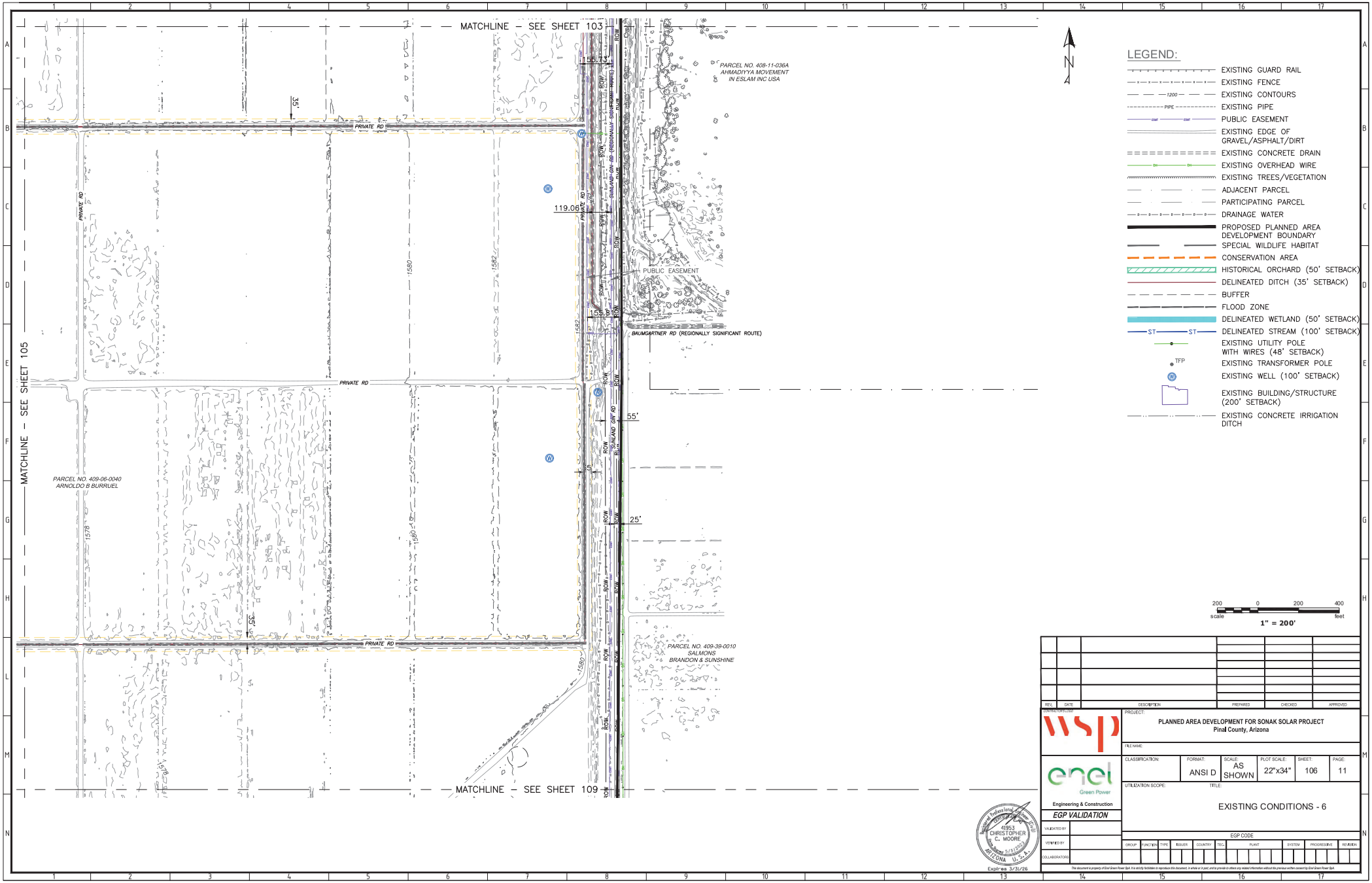
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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

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REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

PROJECT:
PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
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UTILIZATION SCOPE:

TITLE:
EXISTING CONDITIONS - 6

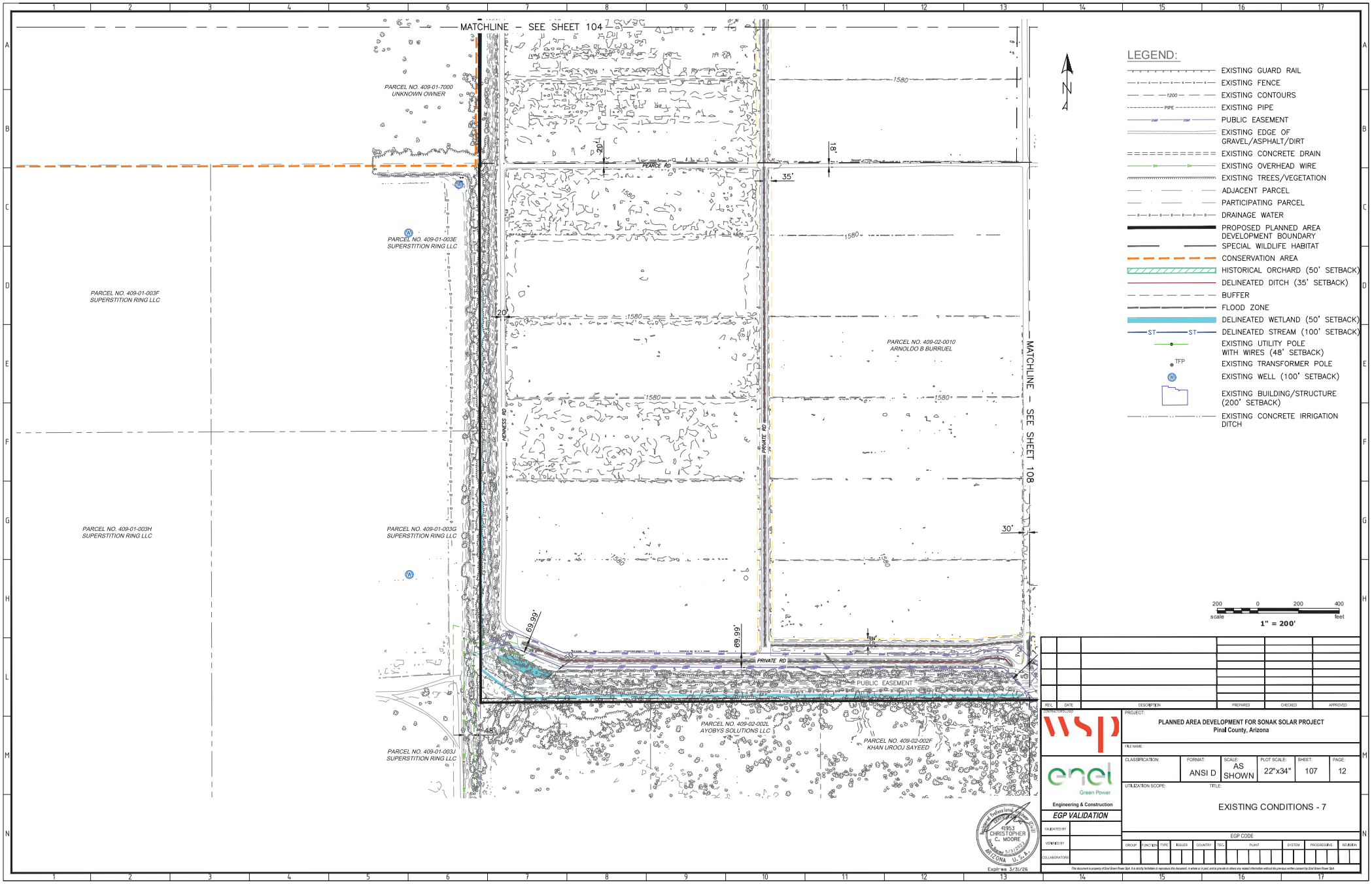
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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

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- EXISTING CONCRETE IRRIGATION DITCH

200 0 200 400
scale feet
1" = 200'

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

PROJECT: PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
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UTILIZATION SCOPE:

TITLE: EXISTING CONDITIONS - 7

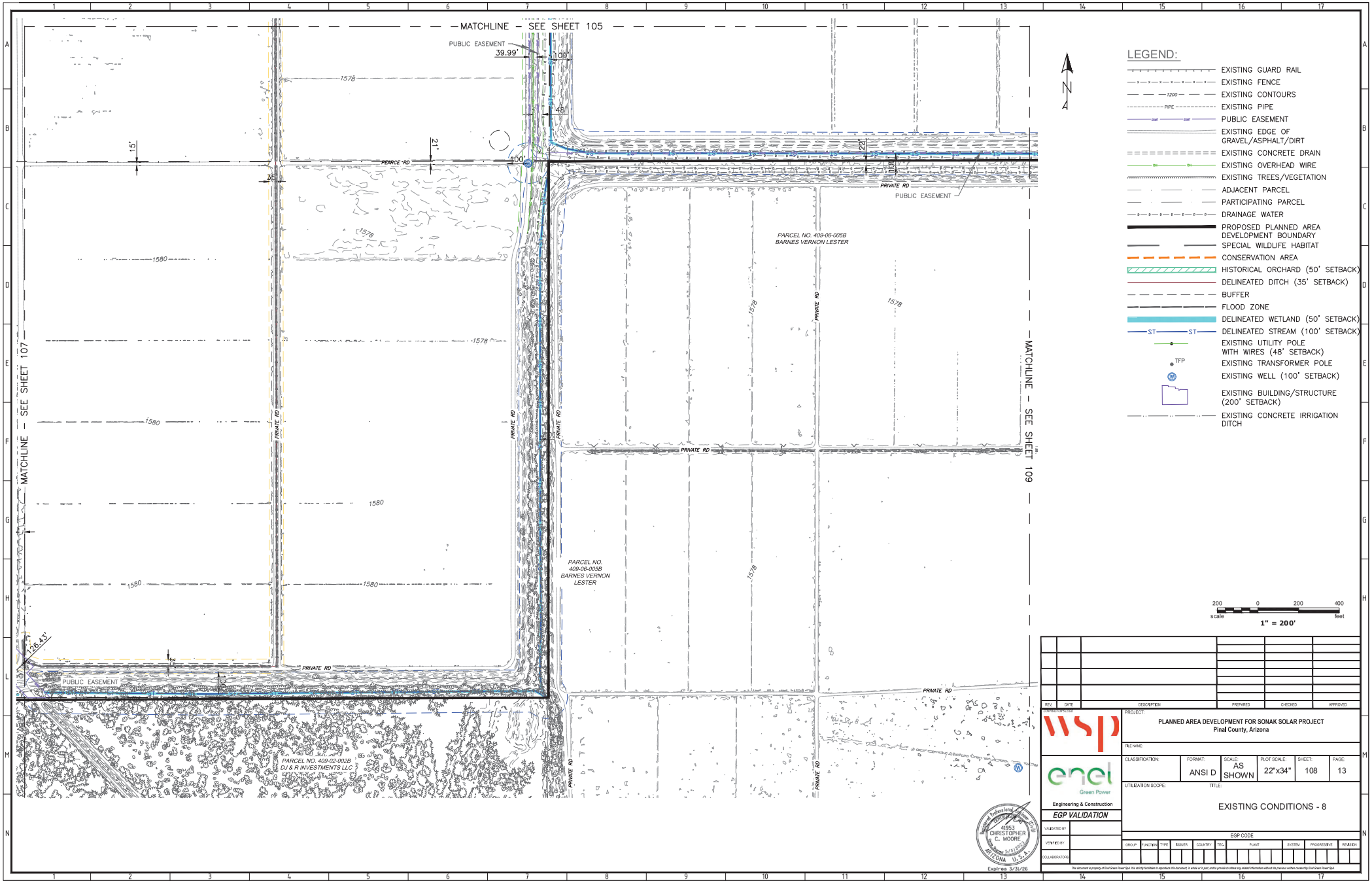
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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

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REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

PROJECT:
PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
	ANSI D	AS SHOWN	22"x34"	108	13

UTILIZATION SCOPE:

TITLE:
EXISTING CONDITIONS - 8

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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

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- EXISTING BUILDING/STRUCTURE (200' SETBACK)
- EXISTING CONCRETE IRRIGATION DITCH

200 0 200 400
scale feet
1" = 200'

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

PROJECT:
PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
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UTILIZATION SCOPE:
TITLE:
EXISTING CONDITIONS - 9

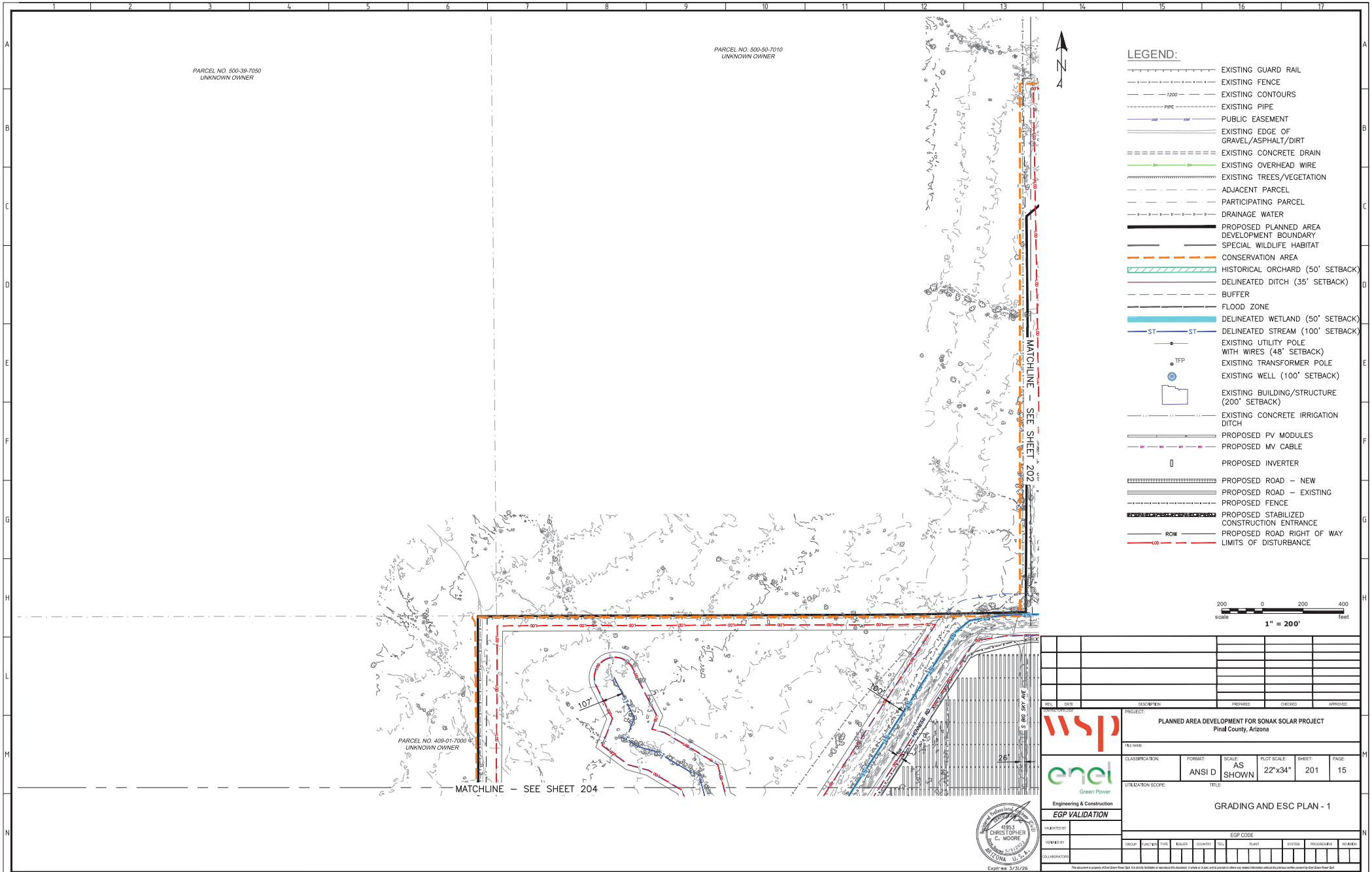
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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

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- EXISTING BUILDING/STRUCTURE (200' SETBACK)
- EXISTING CONCRETE IRRIGATION DITCH
- PROPOSED PV MODULES
- PROPOSED MV CABLE
- PROPOSED INVERTER
- PROPOSED ROAD – NEW
- PROPOSED ROAD – EXISTING
- PROPOSED FENCE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED ROAD RIGHT OF WAY
- LIMITS OF DISTURBANCE

200 0 200 400
scale feet
1" = 200'

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

PROJECT:
PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
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UTILIZATION SCOPE:

TITLE:
GRADING AND ESC PLAN - 1

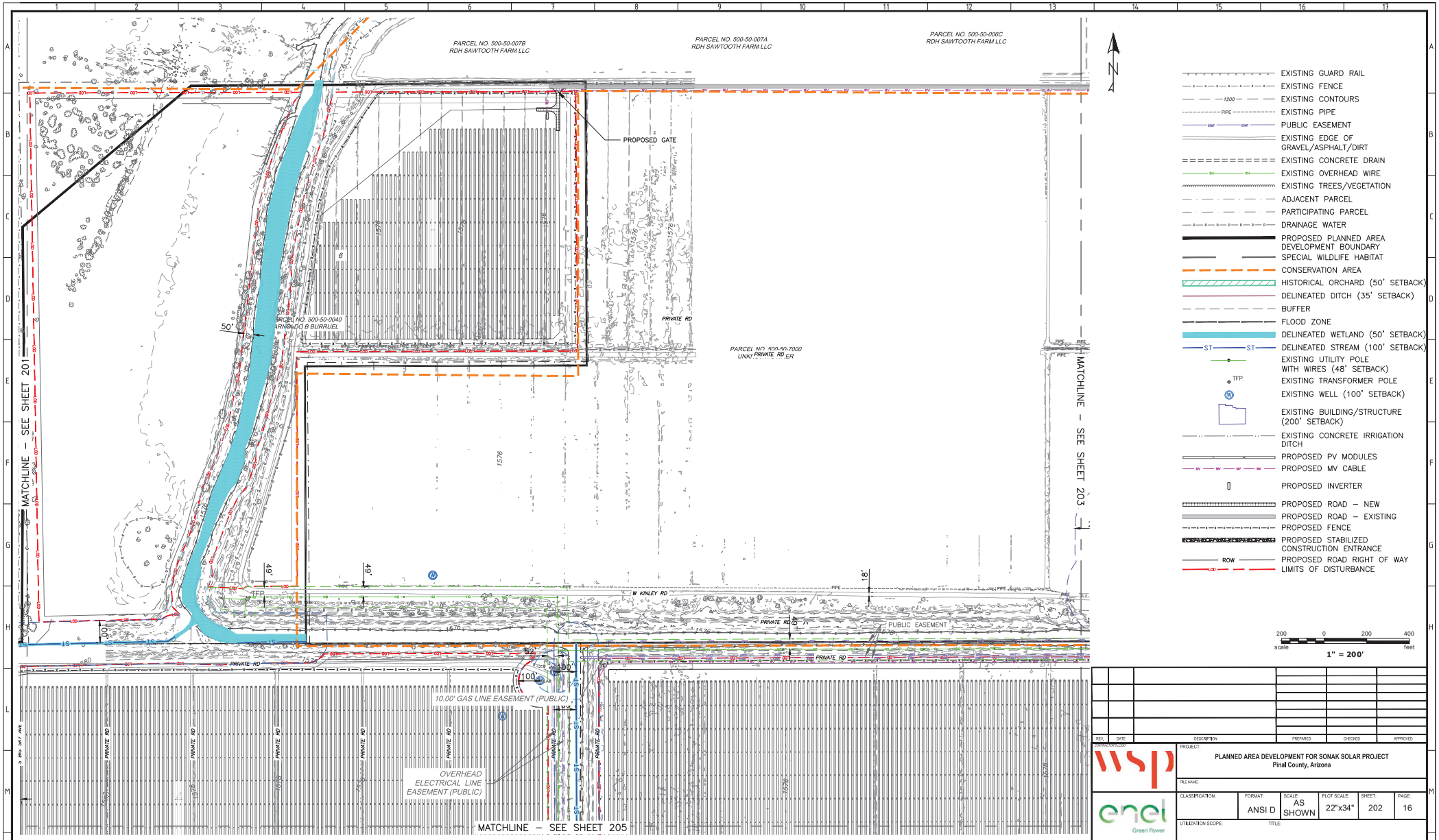
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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TEC	PLANT	SYSTEM	PROGRESSIVE	REVISION

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PROJECT:
PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
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UTILIZATION SCOPE:

TITLE:
GRADING AND ESC PLAN - 2

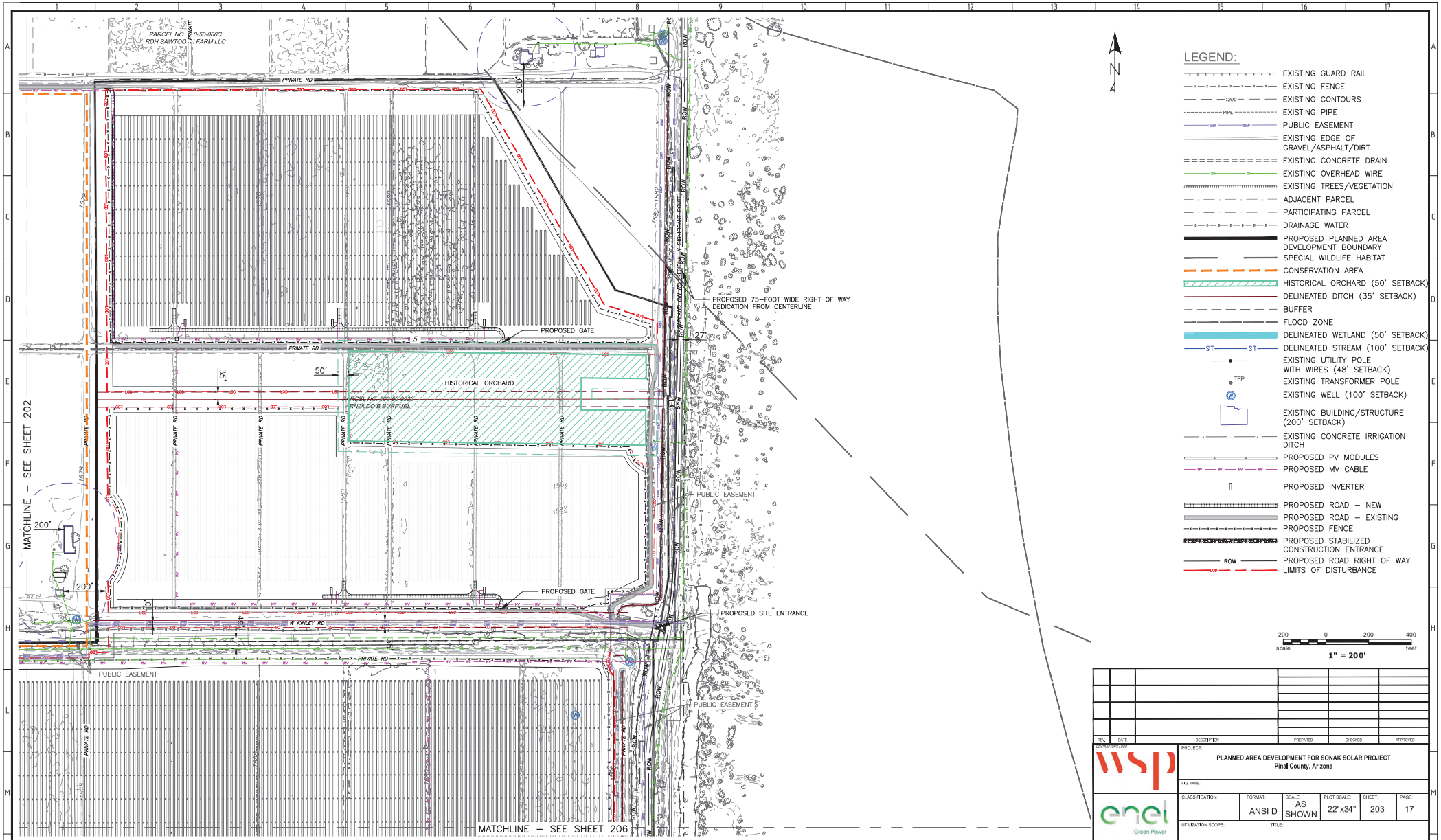
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GROUP	FUNCTION	TYPE	ISSUER	COUNTRY	TECH	PLANT	SYSTEM	PROGRESSIVE	REVISION

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- LIMITS OF DISTURBANCE

scale 200 0 200 400 feet
1" = 200'

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

PROJECT: PLANNED AREA DEVELOPMENT FOR SONAK SOLAR PROJECT
Pinal County, Arizona

FILE NAME:

CLASSIFICATION:	FORMAT:	SCALE:	PLOT SCALE:	SHEET:	PAGE:
	ANSI D	AS SHOWN	22"x34"	203	17

UTILIZATION SCOPE:

TITLE: GRADING AND ESC PLAN - 3

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