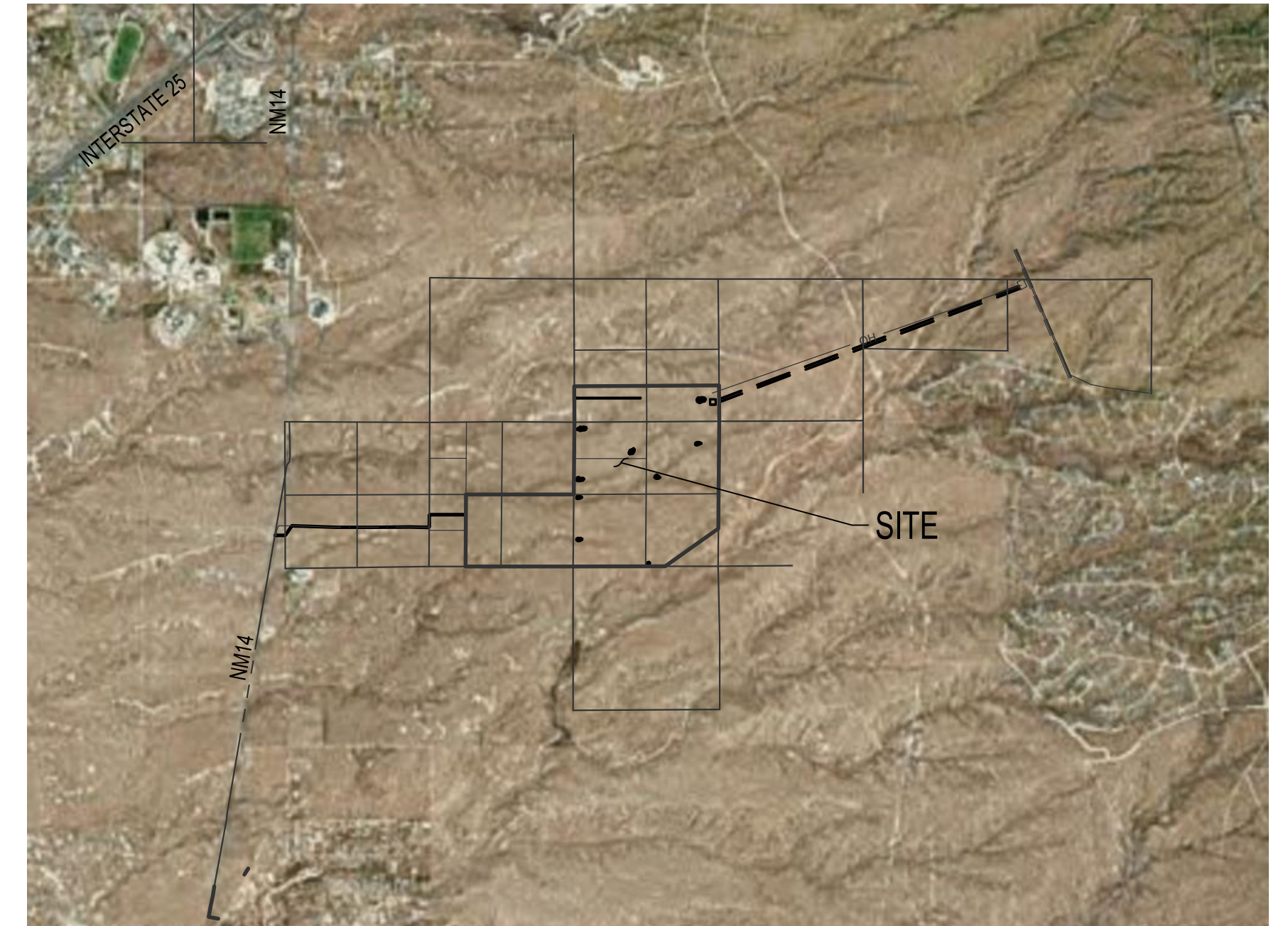


SITE DEVELOPMENT PLAN IN SUPPORT OF CONDITIONAL USE PERMIT FOR RANCHO VIEJO SOLAR LLC SANTA FE, NEW MEXICO



VICINITY MAP
NOT TO SCALE

INDEX

SHEET NUMBER	DESCRIPTION
C-001	COVER SHEET
C-002 - C-005	SURVEY
C-100	OVERALL PLAN
C-101 - C-112	SITE PLANS & CONCEPTUAL GRADING PLAN
C-113	SITE DETAILS
C-201 - C-213	PLAN & PROFILES
C-300	DRAINAGE MANAGEMENT PLAN

GENERAL NOTES

1. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.
2. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).
3. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.



ENGINEERS STAMP & SIGNATURE

Bohannon **Huston**
www.bhinc.com 800.877.5332

RANCHO VIEJO SOLAR LLC
COVER

BHI PROJECT NO. 20230219	DWG NO.	SHEET C-001 OF 33
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AFFIDAVIT:

KNOW ALL MEN BY THESE PRESENTS, THAT THE UNDERSIGNED OWNER(S) OF AREA 2 AS SHOWN ON "BOUNDARY SURVEY PREPARED FOR RANCHO VIEJO LIMITED PARTNERSHIP AND RANCHO VIEJO DE SANTA FE OF ALL LOTS OF RECORD...." RECORDED IN THE OFFICE OF THE COUNTY CLERK IN PLAT BOOK 521 PAGE 44-50A, HAVE CAUSED THIS ADJUSTMENT TO BE PREPARED. THIS REPLAT SUPERSEDES AND REPLACES SAID TRACT AS SHOWN ON ABOVE MENTIONED RECORDED PLAT. THIS REPLAT CONTAINS 9020 Ac., MORE OR LESS, ALL THAT APPEARS ON THIS PLAT IS MADE WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE DESIRES OF THE UNDERSIGNED OWNERS.

THIS DIVISION LIES WITHIN THE PLANNING AND PLATTING JURISDICTION OF THE COUNTY OF SANTA FE, NEW MEXICO.

OWNER:

BY: _____
 RANCHO VIEJO LIMITED PARTNERSHIP
 STATE OF NEW MEXICO)
 COUNTY OF SANTA FE)

THE FOREGOING WAS SWORN, ACKNOWLEDGED AND SUBSCRIBED BEFORE ME BY: WARREN THOMPSON, PRESIDENT, LOS ATROVIDOS, INC, GENERAL PARTNER TO: RANCHO VIEJO LIMITED PARTNERSHIP.

THIS _____ DAY OF _____, 2023

NOTARY PUBLIC _____ MY COMMISSION EXPIRES _____

REFERENCE DOCUMENTS:

1. INVENTORY AND COMPOSITE PLAT OF LEGAL LOTS OF RECORD PREPARED FOR RANCHO VIEJO LIMITED PARTNERSHIP. RECORDED APRIL 5, 2007, IN Bk.650, Pg.47-48 OFFICE OF THE SANTA FE COUNTY CLERK.

2. BOUNDARY SURVEY PREPARED FOR RANCHO VIEJO LIMITED PARTNERSHIP AND RANCHO VIEJO DE SANTA FE. RECORDED JANUARY 24, 2003, IN Bk.521, Pg.44-50A OFFICE OF THE SANTA FE COUNTY CLERK.

3. LOT LINE ADJUSTMENT-35 ACXRE EXEMPTION AND TDR SENDING AREA PLAT BETWEEN THE REMAINDER OS SEC 12 AND NORTH PORTION TRACT V AND SENDING AREA SURVEY OF LOT 2, TRACT V, PREPARED FOR RANCHO VIEJO LIMITED PARTNERSHIP. RECORDED SEPTEMBER 6, 2019 IN Bk. 854, Pg.18-19, OFFICE OF THE SANTA FE COUNTY CLERK.

ALL OTHER DOCUMENTS USED TO PREPARE THIS PLAT ARE SHOWN HEREON.

LEGEND:

BEARINGS ARE DERIVED FROM BOUNDARY SURVEY PREPARED FOR RANCHO VIEJO DE SANTA FE RECORDED IN PLAT Bk. 521, Pg. 44-50-A OFFICE OF THE SANTA FE COUNTY CLERK

- DENOTES BRASS CAP
- DENOTES REBAR, OR AS SHOWN FOUND
- DENOTES REBAR, OR AS SHOWN TO BE SET UPON RECORDING
- DENOTES CALCULATED POINT NOT SET
- NLL DENOTES NEW LOT LINE
- OLL DENOTES OLD LOT LINE
- ∅ DENOTES UTILITY POLE
- +— DENOTES OVERHEAD UTILITY LINE
- +— DENOTES FENCE

NOTES:

SEC 1, N. PORTION TRACT V AND SEC. 12, T15N R8E, ARE ZONED AS MIX USE (MU).

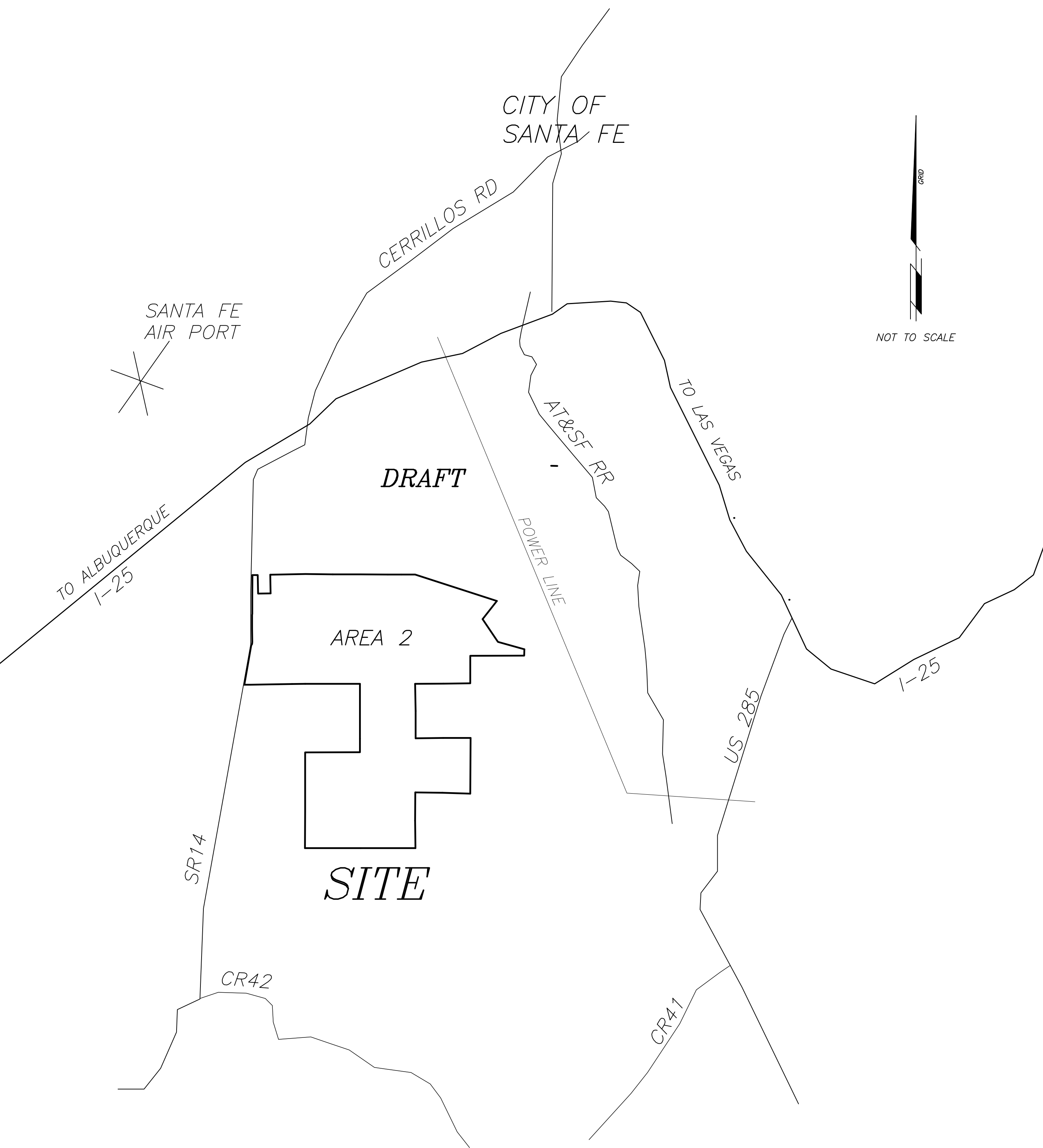
SEC. 6, A PORTION OF SEC. 7, T15N R9E, ARE ZONED AS RURAL FRINGE (RUR-F)
 1 DWELLING PER 20 ACRES BASE DENSITY.

THE REMAINING 5548+ ACRES WITHIN AREA 2 IS ZONED AS RURAL FRINGE (RUR-F)
 1 DWELLING PER 20 ACRES BASE DENSITY.

THIS PLAT SUBJECT TO ALL VALID RESTRICTIONS, COVENANTS AND EASEMENTS OF RECORD

SYMBOLS MAY BE SHOWN LARGER THAN ACTUAL SIZE FOR VIEWING PURPOSES.

SPECIAL BUILDING PERMIT CONDITIONS
 BUILDINGS ON ALL LOTS SHALL BE SUBJECT TO THE SANTA FE COUNTY FIRE CODE.
 ADDRESS IS SUBJECT TO CHANGE BASED UPON MODIFICATION TO EITHER INGRESS/EGRESS OR DRIVEWAY ACCESS.

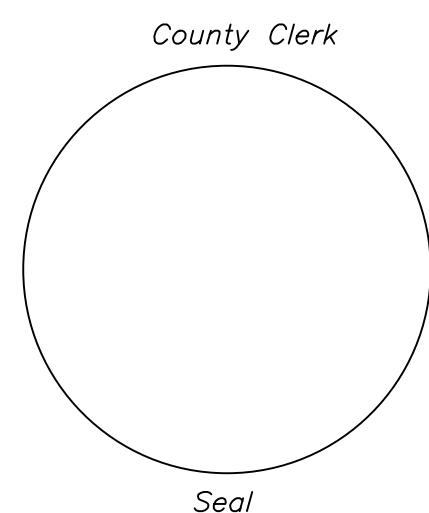


COUNTY OF SANTA FE)
 STATE OF NEW MEXICO)
 I hereby certify that this instrument was filed for record on the _____ day of _____, 20____, A.D. at _____ o'clock _____, and was duly recorded in book _____, page(s) _____ of the records of Santa Fe County.

Witness my Hand and Seal of office
 KATHARINE E. CLARK
 County Clerk, Santa Fe County, N.M.

DRAFT

Deputy



SURVEYORS CERTIFICATE:

I HEREBY CERTIFY THAT THIS PLAT IS A TRUE REPRESENTATION OF A SURVEY COMPLETED UNDER MY PERSONAL SUPERVISION ON THE 8th DAY OF AUGUST 2019. TO THE BEST OF MY KNOWLEDGE THE SURVEY AND PLAT ARE CORRECT, TRUE AND MEET THE MINIMUM STANDARDS FOR SURVEYS IN NEW MEXICO.

DRAFT
 EDWARD M. TRUJILLO, N.M.P.L.S. 12352 JAN. XX, 2023
 DATE

SANTA FE COUNTY APPROVAL, NOTES AND CONDITIONS:

APPROVALS:	FLOOD PLAIN ADMINISTRATOR	DATE	
LAND USE ADMINISTRATOR	DATE	COUNTY DEVELOPMENT PERMIT No.	
COUNTY TREASURER	DATE	TDR FILE No.	
COUNTY FIRE MARSHAL	DATE	RURAL ADDRESSING	DATE

1. THE TRACTS, PARCELS AND/OR LOTS DEPICTED HEREON LIE WITHIN THE RURAL FRINGE ZONING DISTRICT, WITH DESIGNATED BUILDING SETBACK FROM PROPERTY LINES: FRONT 25 FEET, SIDE AND REAR 25 FEET.
2. THE LANDS SHOWN HEREON LIE WITHIN THE PLANNING AND PLATTING JURISDICTION OF SANTA FE COUNTY.
3. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL 35049C0525D EFFECTIVE DATE JUNE 17, 2008. THIS PROPERTY LIES WITHIN ZONE X OTHER AREA, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN WITH A PORTION WITHIN ZONE A SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, NO BASE FLOOD ELEVATIONS DETERMINED.
4. THE APPROVAL OF THIS PLAT DOES NOT CONSTITUTE THE APPROVAL OF ANY FURTHER DEVELOPMENT INCLUDING BUILDING PERMITS. ALL STANDARD COUNTY PERMITS AND FEES MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY OF ANY KIND. DEVELOPMENT PERMITS FOR BUILDING CONSTRUCTION WILL NOT BE ISSUED UNTIL REQUIRED IMPROVEMENTS FOR ROADS, FIRE PROTECTION, TERRAIN MANAGEMENT, AND DRAINAGE ARE COMPLETED AND APPROVED.
5. MAINTENANCE OF PRIVATE ACCESS EASEMENTS, UTILITY EASEMENTS AND/OR PRIVATE ROADWAYS IS NOT THE RESPONSIBILITY OF SANTA FE COUNTY, UNLESS DEDICATED AND ACCEPTED FOR MAINTENANCE BY THE SANTA FE COUNTY PUBLIC WORKS DEPARTMENT AND THE BOARD OF COUNTY COMMISSIONERS.
6. THESE LOTS ARE SUBJECT TO SANTA FE COUNTY FIRE AND RESCUE IMPACT FEES AT THE TIME OF APPLICATION FOR BUILDING PERMIT.
7. THE TRACTS, PARCELS AND/OR LOTS SHOWN HEREON LIE INSIDE THE MODERATE HAZARD AREA OF THE URBAN WILDLAND INTERFACE ZONE AS DEFINED BY THE SANTA FE COUNTY FIRE DEPARTMENT. FIRE SPRINKLERS AND/OR FIRE STORAGE MAY BE REQUIRED.
8. THE PARCELS AS PLATTED HEREON ARE SUBJECT TO ARTICLE VII, SECTION 3 OF THE SANTA FE COUNTY TERRAIN MANAGEMENT REGULATIONS AT THE TIME OF ANY DEVELOPMENT.
9. ANY LAND DEVELOPMENT WILL REQUIRE AN ARCHAEOLOGICAL SURVEY OF THE DESIGNATED BUILDABLE AREA AT THE TIME OF DEVELOPMENT.

LOT LINE ADJUSTMENT OF PATENT 909112 TO CREATE A SOLAR SITE TRACT WITHIN AREA 2
 SECTIONS 1, 11 & 12
 T15N, R8E, NMPM,
 SECTIONS 3, 4, 5, 6, 7, 8, 9, 17, 19,
 20, 21, 29 & 30
 T15N, R9E, NMPM,
 PREPARED FOR
RANCHO VIEJO LIMITED PARTNERSHIP
 SANTA FE COUNTY, NEW MEXICO

THE PURPOSE OF THIS PLAT IS TO CREATE A LOT LINE ADJUSTMENT.

"TITLE AND INDEXING INFORMATION FOR COUNTY CLERK"

LOT LINE ADJUSTMENT SURVEY PLAT PREPARED FOR

CURRENT OWNER: RANCHO VIEJO LIMITED PARTNERSHIP

UPC#: 1-050-088-266-365

PLSS DESIGNATION: SECTIONS 1, 11 & 12
 T5N, R8E, NMPM,
 SECTIONS 3, 4, 5, 6, 7, 8, 9, 10, 17, 19, 20,
 21, 29 & 30
 T5N, R9E, NMPM,

SUBDIVISION: RANCHO VIEJO

CITY: N/A

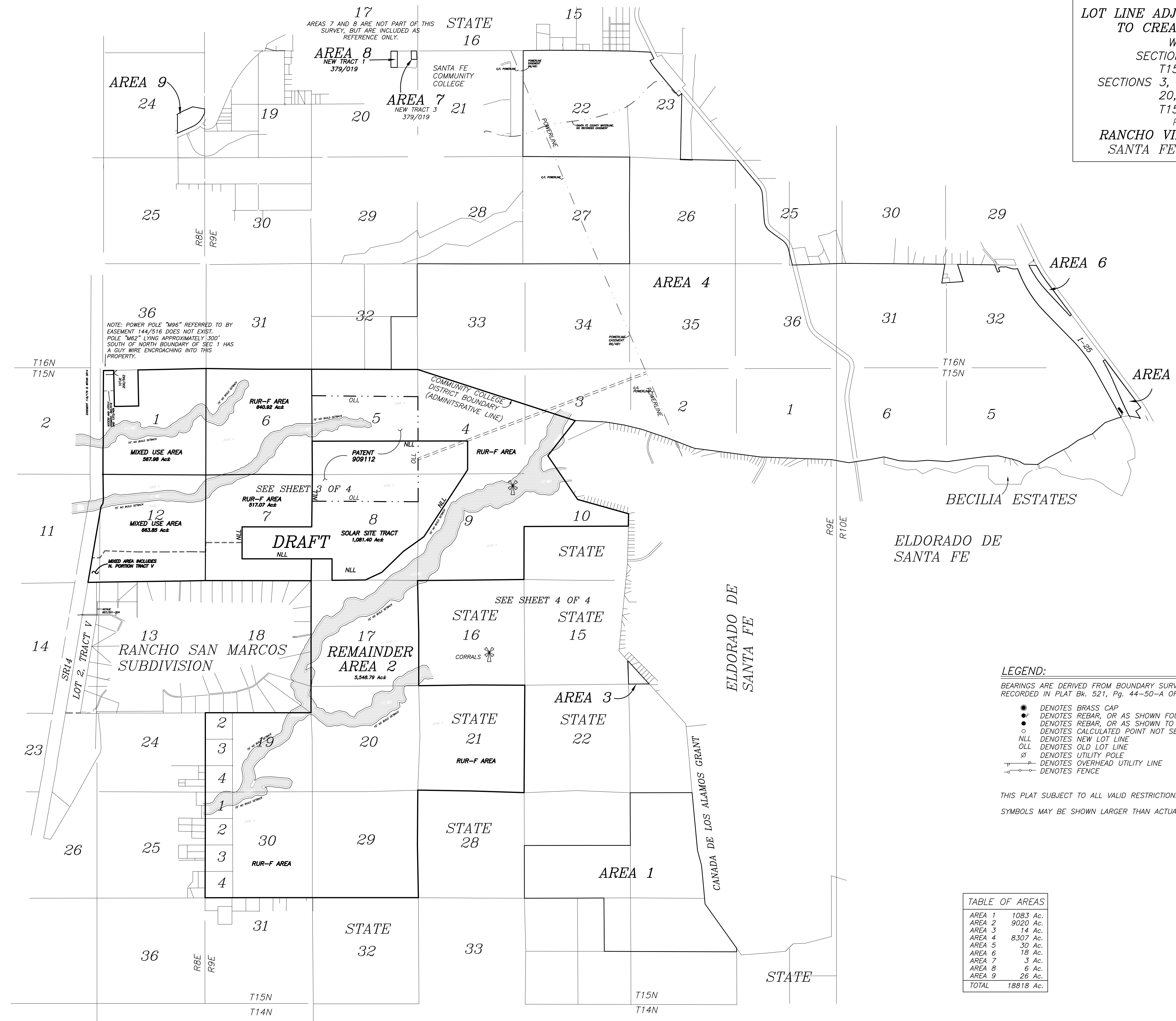
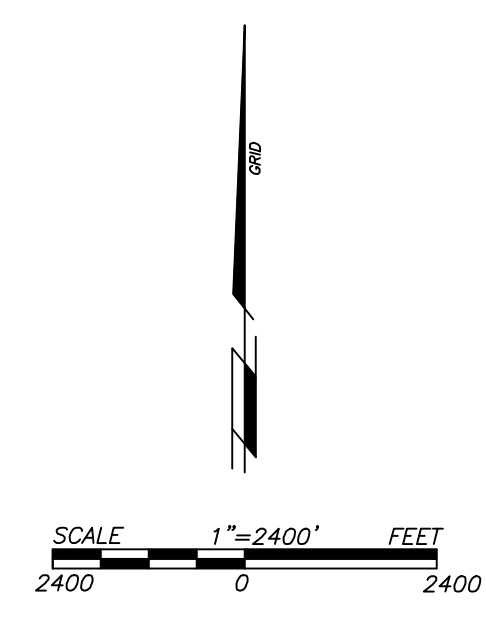
GRANT N/A

COUNTY: SANTA FE

STATE: NEW MEXICO

SHEET 1 of 4
 DAWSON SURVEYS INC.
 PROFESSIONAL LAND SURVEYORS
 7505 MALLARD WAY, SUITE A
 SANTA FE, N.M. 87507
 FILE#10762\TDR DATE:01\19\2023

**LOT LINE ADJUSTMENT OF PATENT 909112
TO CREATE A SOLAR SITE TRACT
WITHIN AREA 2
SECTIONS 1, 11 & 12
T15N, R9E, NMPM,
SECTIONS 3, 4, 5, 6, 7, 8, 9, 17, 19,
20, 21, 29 & 30
T15N, R9E, NMPM,
PREPARED FOR
RANCHO VIEJO LIMITED PARTNERSHIP
SANTA FE COUNTY, NEW MEXICO**



NOTE: POWER POLE "M66" REFERRED TO BY EASEMENT 144/516 DOES NOT EXIST. POLE "M62" LYING APPROXIMATELY 300' SOUTH OF NORTH BOUNDARY OF SEC 1 HAS A GUY WIRE ENCRANCHING INTO THIS PROPERTY.

DRAFT
NLL

LEGEND:

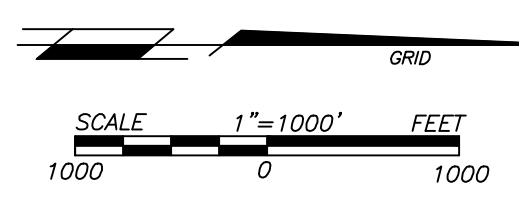
BEARINGS ARE DERIVED FROM BOUNDARY SURVEY PREPARED FOR RANCHO VIEJO DE SANTA FE RECORDED IN PLAT Bk. 521, Pg. 44-50-A OFFICE OF THE SANTA FE COUNTY CLERK

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- DENOTES REBAR, OR AS SHOWN TO BE SET UPON RECORDING
- DENOTES CALCULATED POINT NOT SET
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- OLL DENOTES OLD LOT LINE
- ⊕ DENOTES UTILITY POLE
- DENOTES OVERHEAD UTILITY LINE
- DENOTES FENCE

THIS PLAT SUBJECT TO ALL VALID RESTRICTIONS, COVENANTS AND EASEMENTS OF RECORD
SYMBOLS MAY BE SHOWN LARGER THAN ACTUAL SIZE FOR VIEWING PURPOSES.

TABLE OF AREAS	
AREA 1	1083 Ac.
AREA 2	9020 Ac.
AREA 3	14 Ac.
AREA 4	8307 Ac.
AREA 5	30 Ac.
AREA 6	18 Ac.
AREA 7	3 Ac.
AREA 8	6 Ac.
AREA 9	26 Ac.
TOTAL	18818 Ac.

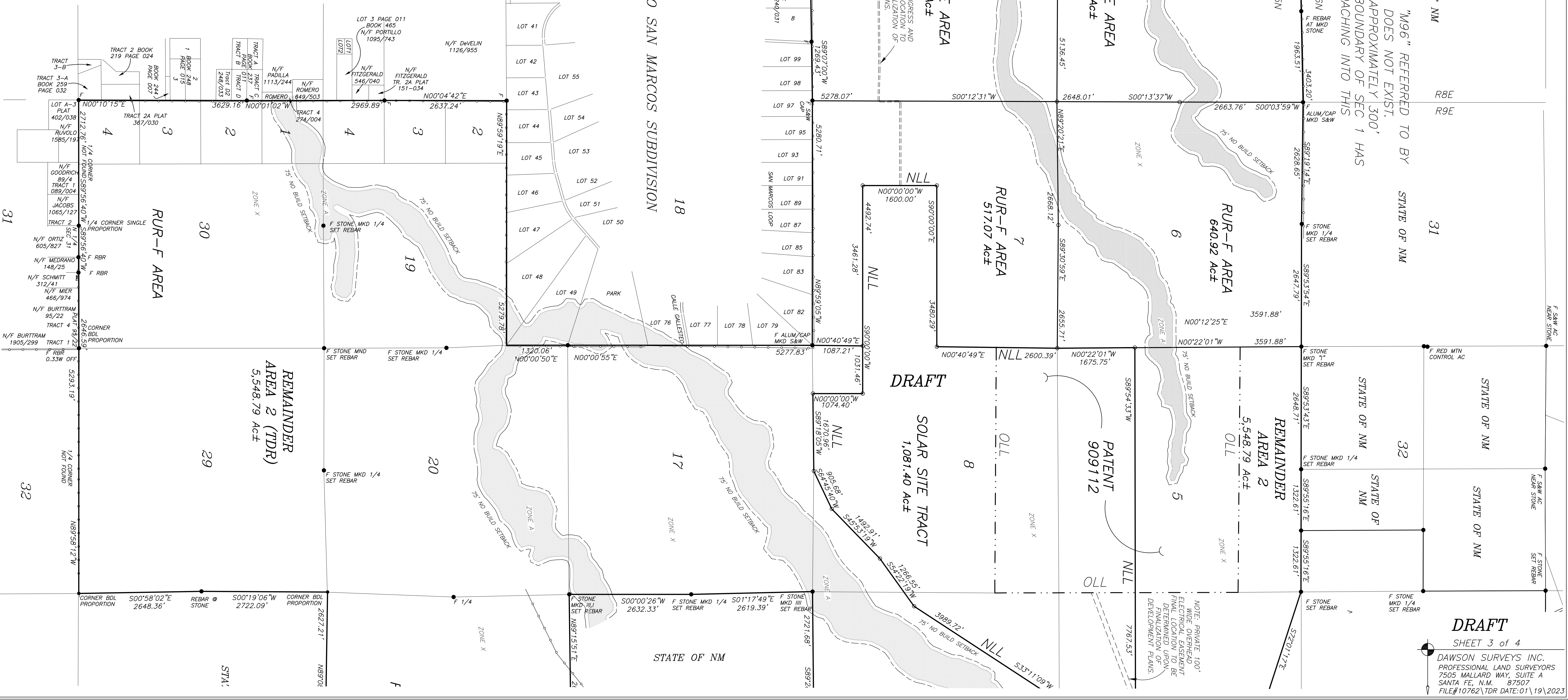
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TO CREATE A SOLAR SITE TRACT**
WITHIN AREA 2
SECTIONS 1, 11 & 12
T15N, R8E, NMPM,
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PREPARED FOR
RANCHO VIEJO LIMITED PARTNERSHIP
SANTA FE COUNTY, NEW MEXICO



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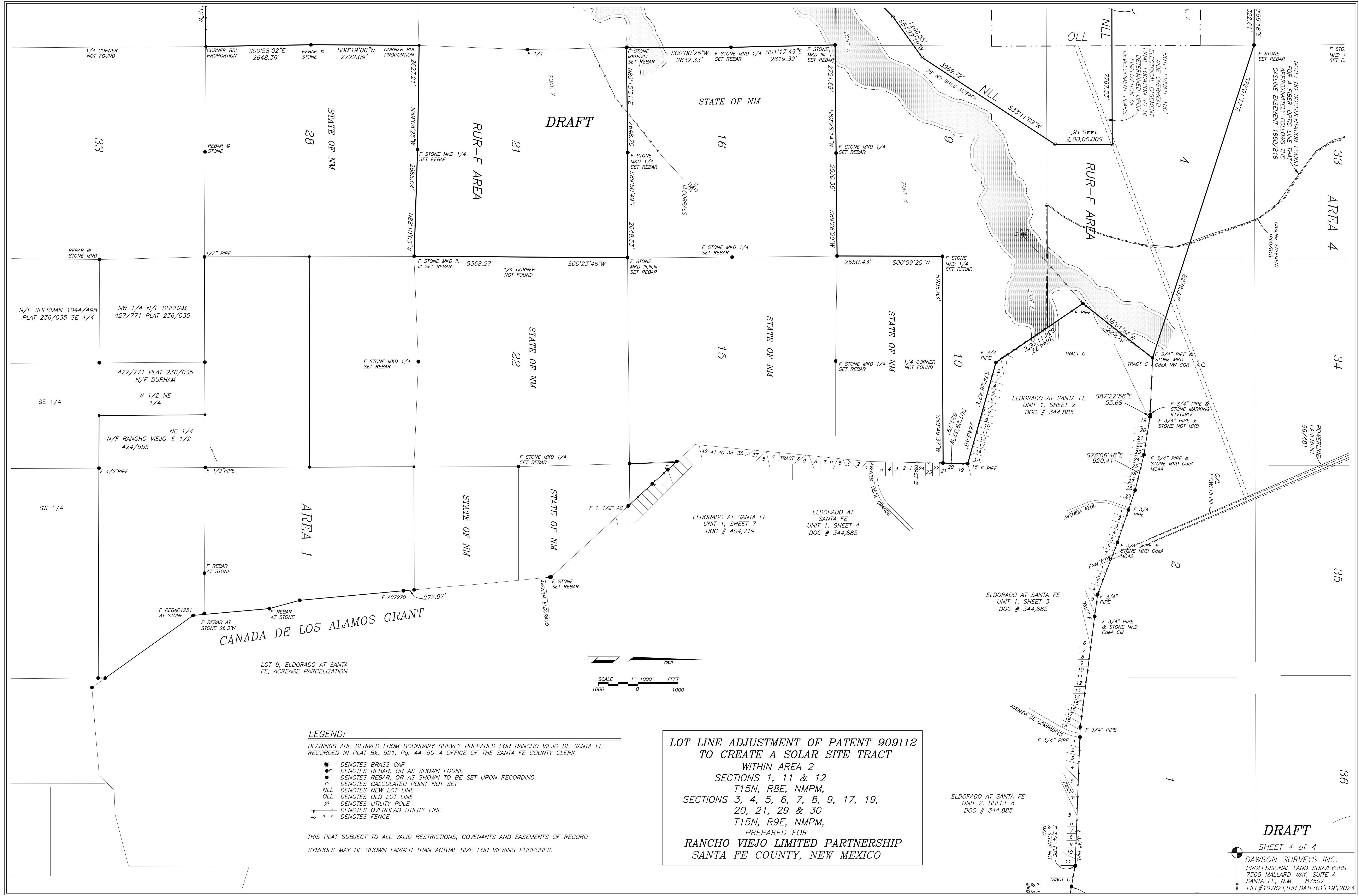
NOTE: PRIVATE 30' WIDE INGRESS AND EGRESS EASEMENT FINAL LOCATION TO BE DETERMINED UPON FINALIZATION OF DEVELOPMENT PLANS.

NOTE: PRIVATE 100' WIDE OVERHEAD ELECTRICAL EASEMENT FINAL LOCATION TO BE DETERMINED UPON DEVELOPMENT PLANS.

DRAFT

SHEET 3 of 4

DAWSON SURVEYS INC.
PROFESSIONAL LAND SURVEYORS
7505 MALLARD WAY, SUITE A
SANTA FE, N.M. 87507
FILE#10762\TDR DATE:01/19/2023

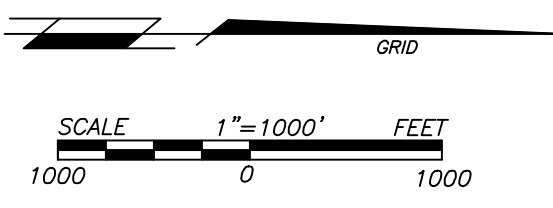


DRAFT

**LOT LINE ADJUSTMENT OF PATENT 909112
TO CREATE A SOLAR SITE TRACT
WITHIN AREA 2
SECTIONS 1, 11 & 12
T15N, R8E, NMPM,
SECTIONS 3, 4, 5, 6, 7, 8, 9, 17, 19,
20, 21, 29 & 30
T15N, R9E, NMPM,
PREPARED FOR
RANCHO VIEJO LIMITED PARTNERSHIP
SANTA FE COUNTY, NEW MEXICO**

- LEGEND:**
- DENOTES BRASS CAP
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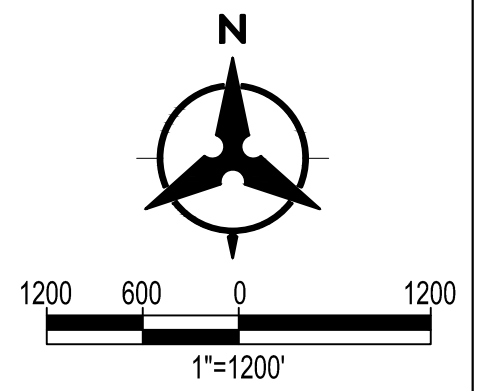
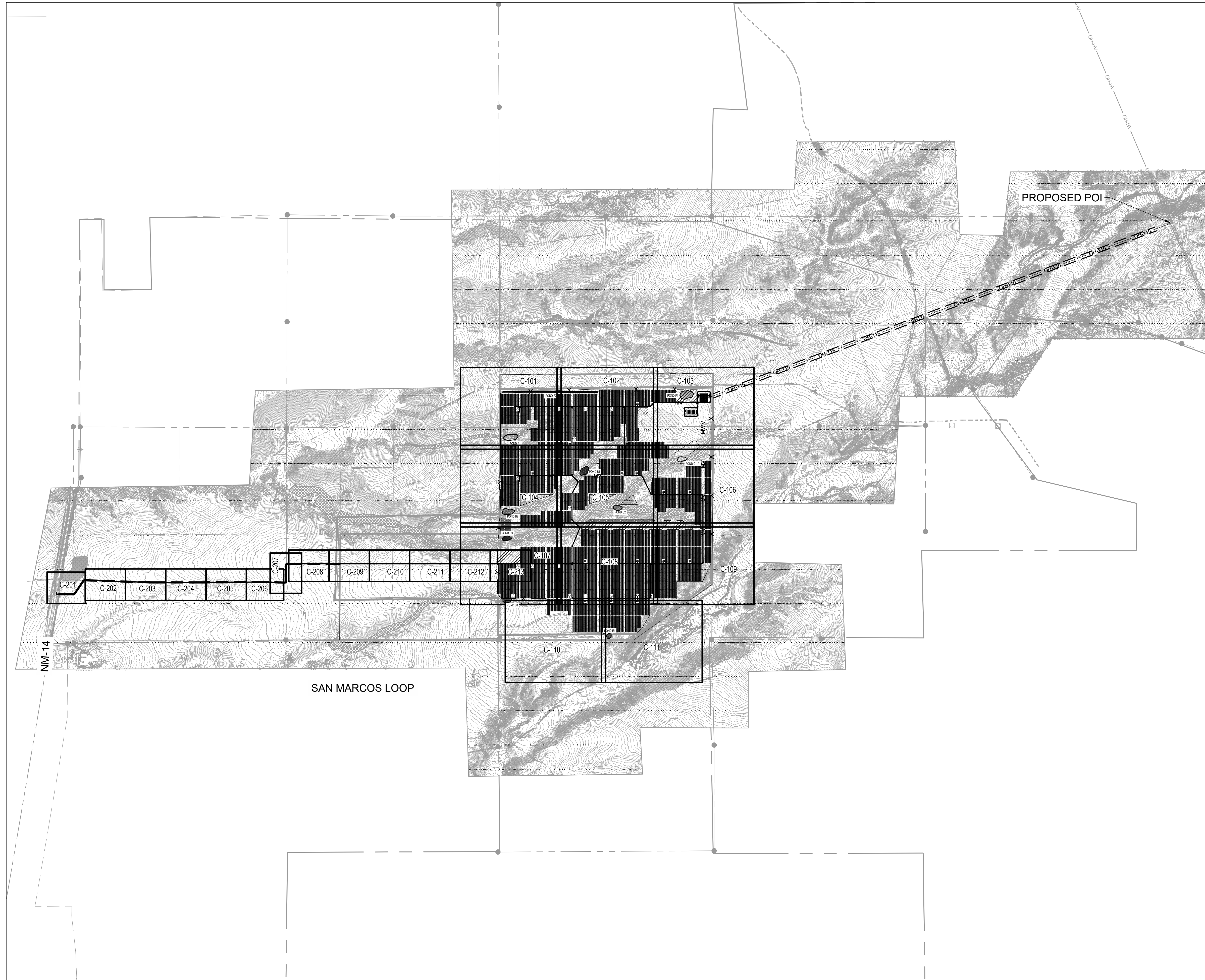
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DRAFT

SHEET 4 of 4

DAWSON SURVEYS INC.
PROFESSIONAL LAND SURVEYORS
7505 MALLARD WAY, SUITE A
SANTA FE, N.M. 87507
FILE#10762\TDR DATE:01\19\2023



BENCH MARKS

ENGINEER'S SEAL

AS-BUILT INFORMATION

REVISIONS

LEGEND

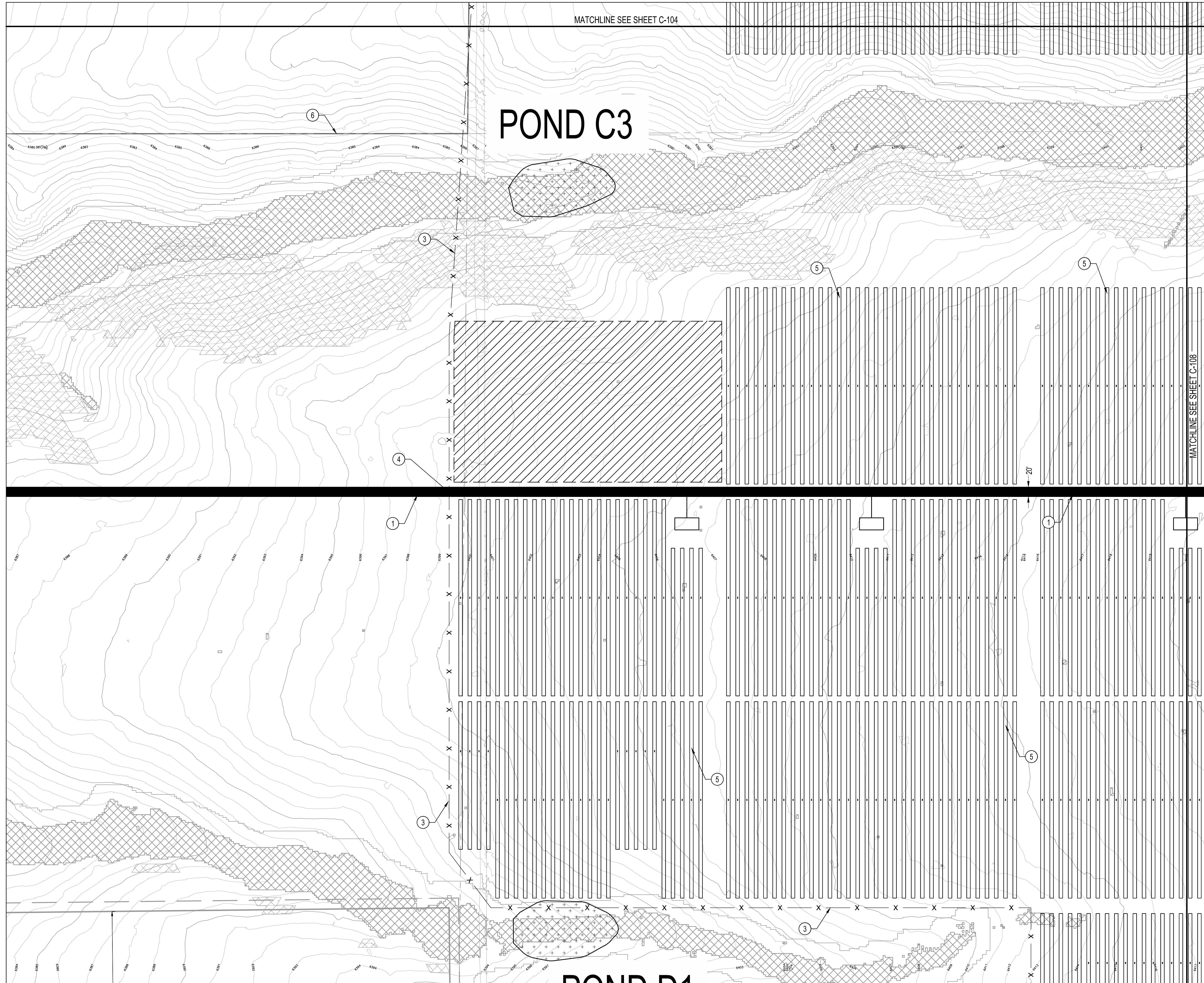
- | EXISTING | |
|----------|----------------------------------|
| | PROPERTY LINE |
| | SETBACK |
| | 10' ELEVATION CONTOURS |
| | 2' ELEVATION CONTOURS |
| | 100YR FLOODPLAIN |
| | ENVIRONMENTALLY SENSITIVE AREA |
| | PRAIRIE DOG COLONY |
| | SLOPE KEEPOUT AREA |
| | 115kV OVERHEAD TRANSMISSION LINE |
| PROPOSED | |
| | SITE BOUNDARY |
| | LIMITS OF DISTURBANCE (LOD) |
| | FENCE |
| | STORM WATER POND |
| | AES SUBSTATION |
| | INTERIOR ROADS |
| | LAYDOWN AREA |
| | UG MV FEEDER |
| | XFMR SKID |
| | PV PANELS |



RANCHO VIEJO SOLAR LLC
OVERALL PLAN

BHI PROJECT NO.	20230219	DWG NO.		SHEET	C-100	OF	33
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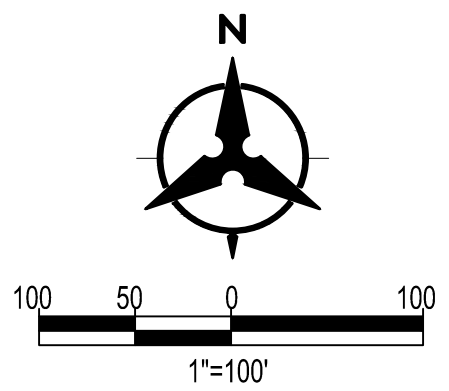
MATCHLINE SEE SHEET C-104

POND C3

MATCHLINE SEE SHEET C-08

KEYED NOTES

1. 20' GRAVEL ROAD SEE DETAIL SHEET C-113
2. 16' GRAVEL ROAD SEE DETAIL SHEET C-113
3. FENCING PER DETAIL SEE SHEET C-113
4. GATE PER DETAIL SEE SHEET C-113
5. PV PANELS
6. PROPERTY LINE
7. 100' UTILITY EASEMENT



BENCH MARKS

ENGINEER'S SEAL

AS-BUILT INFORMATION

REVISIONS

DESIGN

LEGEND

EXISTING	
	PROPERTY LINE
	SETBACK
	10' ELEVATION CONTOURS
	2' ELEVATION CONTOURS
	100YR FLOODPLAIN
	ENVIRONMENTALLY SENSITIVE AREA
	PRAIRIE DOG COLONY
	SLOPE KEEPOUT AREA
	115KV OVERHEAD TRANSMISSION LINE
PROPOSED	
	SITE BOUNDARY
	LIMITS OF DISTURBANCE (LOD)
	FENCE
	STORM WATER POND
	AES SUBSTATION
	INTERIOR ROADS
	LAYDOWN AREA
	UG MV FEEDER
	XFMR SKID
	PV PANELS

CONTRACTOR	DATE
WORK STARTED BY	DATE
INSPECTORS	DATE
ACCEPTED BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

BY	DATE

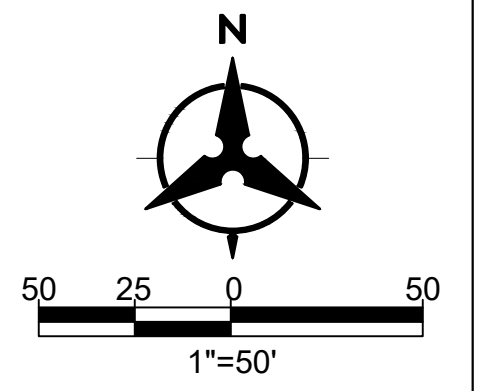
NO.	DATE	DESIGNED BY	CHECKED BY	DRAWN BY
		GB	GB	AR



RANCHO VIEJO SOLAR LLC
SITE PLAN & CONCEPTUAL GRADING PLAN

KEYED NOTES

- 20' GRAVEL ROAD SEE DETAIL SHEET C-113
- 16' GRAVEL ROAD SEE DETAIL SHEET C-113
- FENCING PER DETAIL SEE SHEET C-113
- GATE PER DETAIL SEE SHEET C-113
- PV PANELS
- PROPERTY LINE
- 100' UTILITY EASEMENT



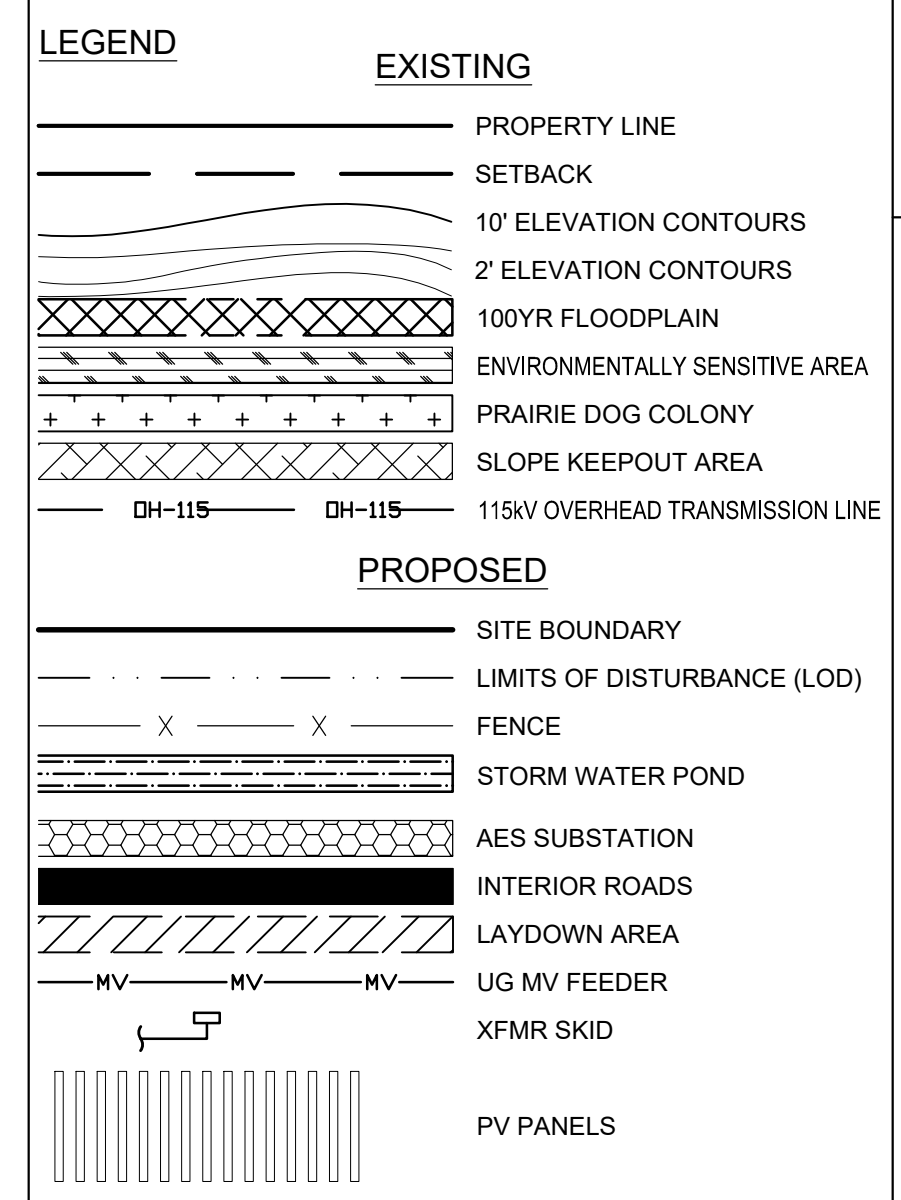
BENCH MARKS

ENGINEER'S SEAL

AS-BUILT INFORMATION

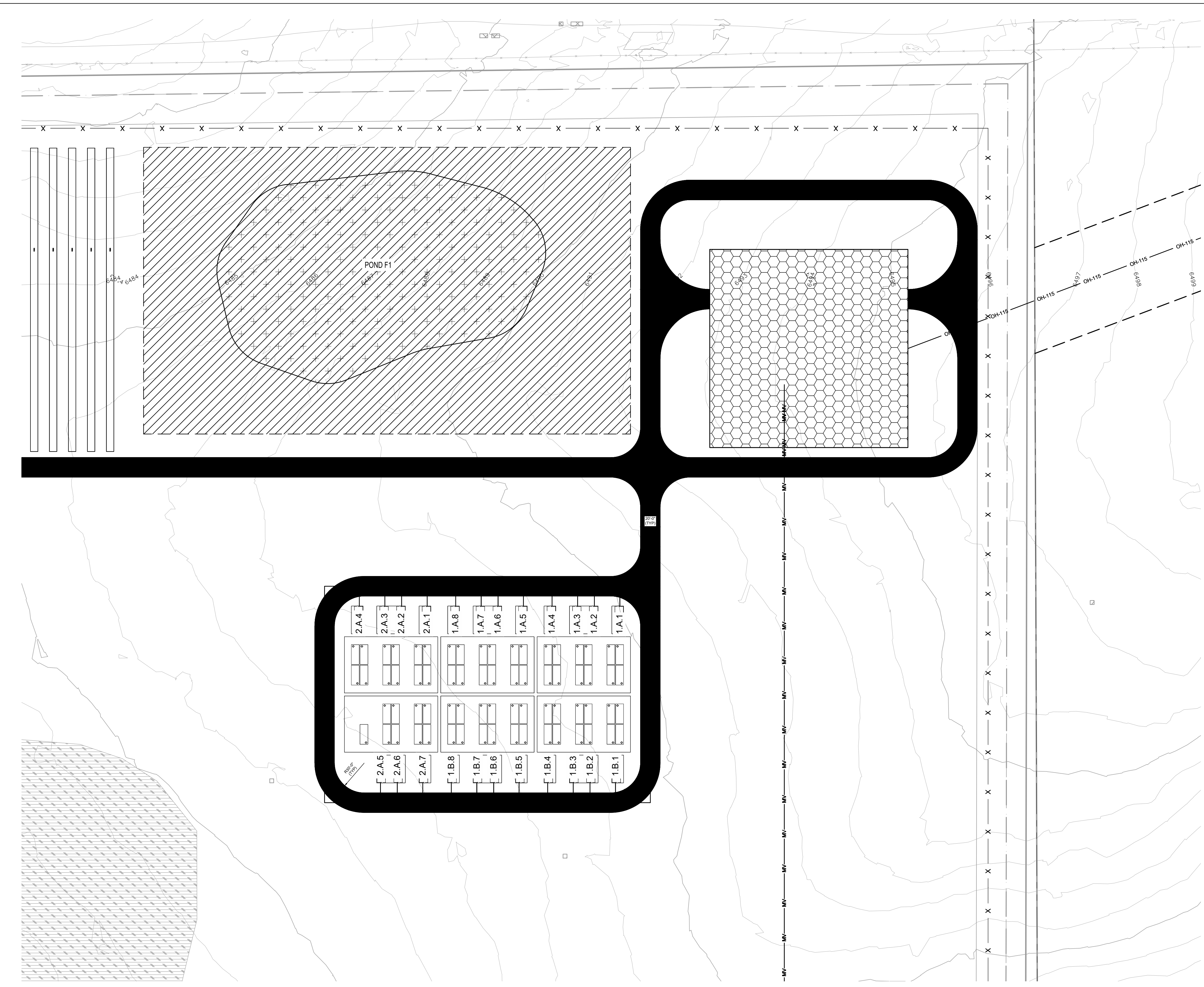
REVISIONS

DESIGN

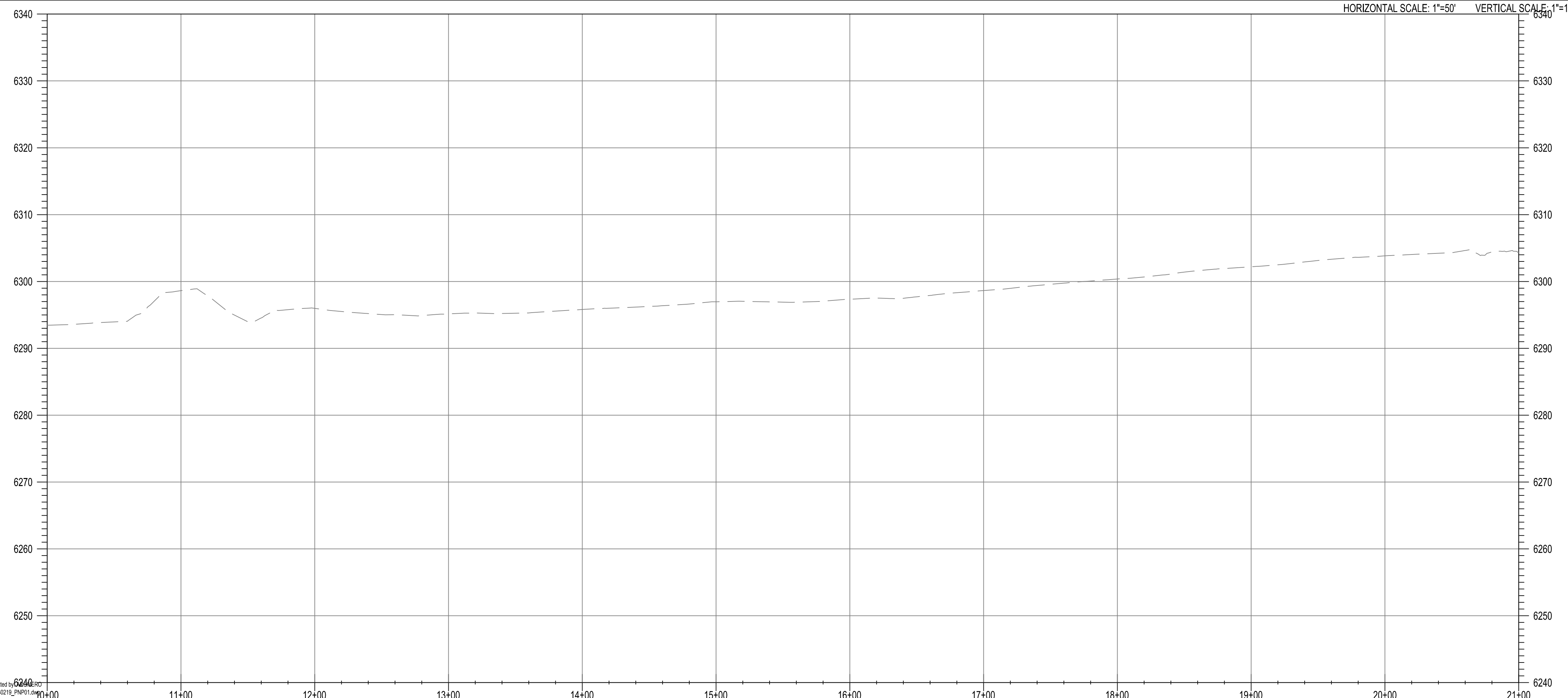
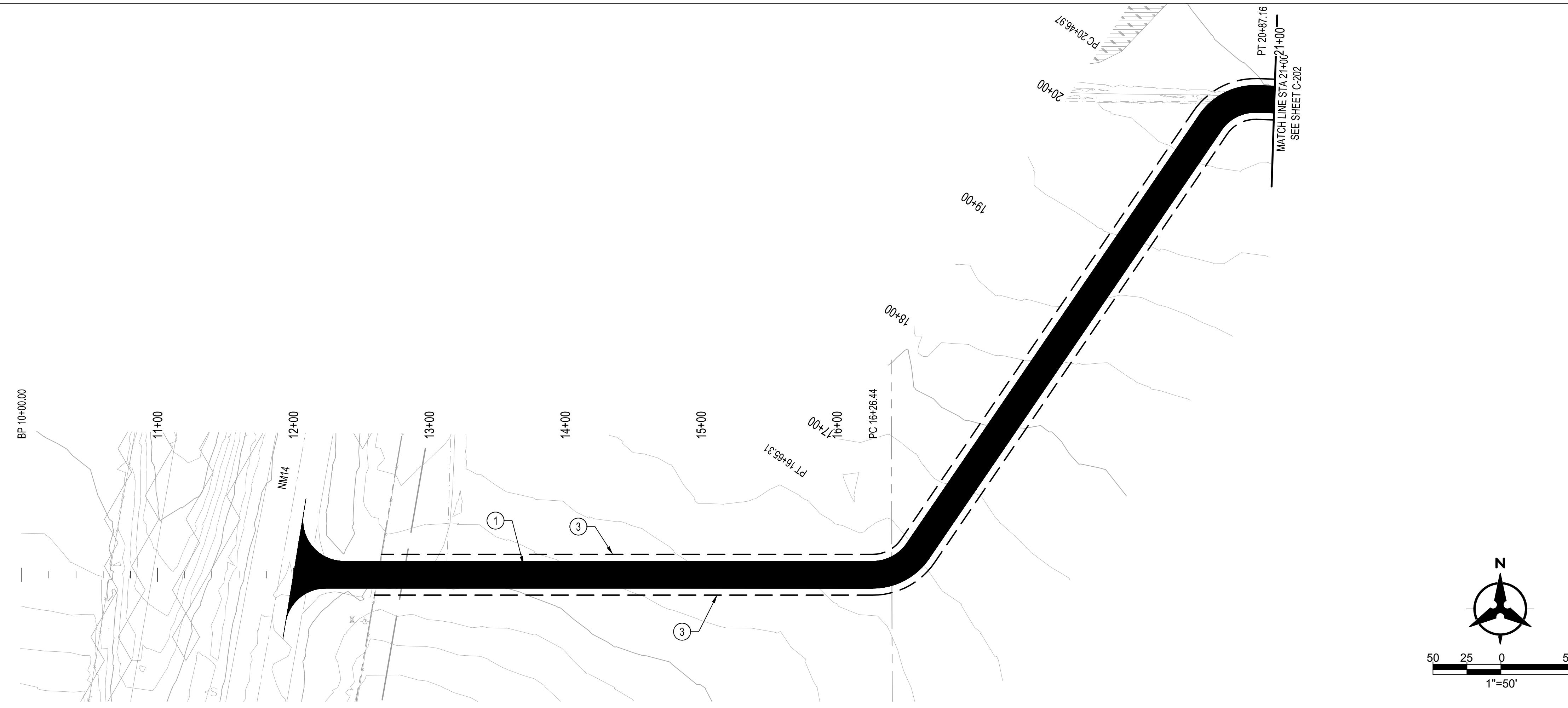


RANCHO VIEJO SOLAR LLC
ENLARGED SITE PLAN & CONCEPTUAL GRADING PLAN

BHI PROJECT NO.	20230219	DWG NO.		SHEET	C-112	OF	33
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Wed, 25-Jan-2023 - 2:34 pm. Plotted by: AROMERO
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- NOTES**
1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 2. ALL CURVE DATA AND DIMENSIONS REFER TO CENTERLINE OF R.O.W. UNLESS OTHERWISE SPECIFIED.
 3. GRADE ELEVATIONS, WHERE NOTED, ARE FOR CENTERLINE OF R.O.W. UNLESS OTHERWISE SPECIFIED.
 4. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
 5. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
 6. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

KEYED NOTES

1. 20' GRAVEL ROAD SEE DETAIL SHEET C-113
2. 16' GRAVEL ROAD SEE DETAIL SHEET C-113
3. 30' ACCESS EASEMENT

BENCH MARKS

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ENGINEER'S SEAL

AS-BUILT INFORMATION

CONTRACTOR	DATE
WORK STARTED BY	DATE
INSPECTORS ACCEPTED BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

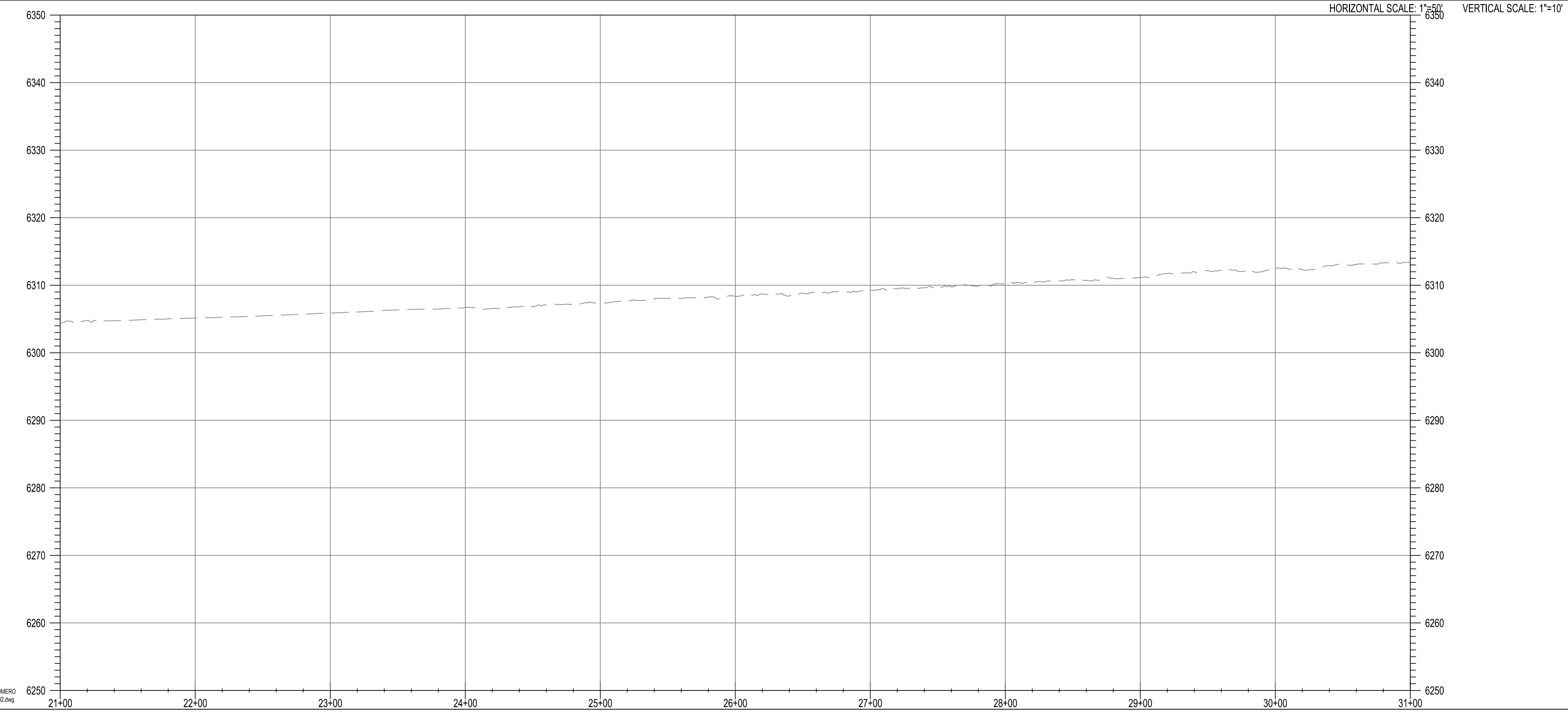
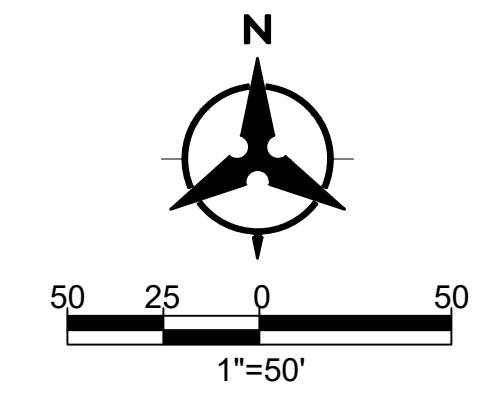
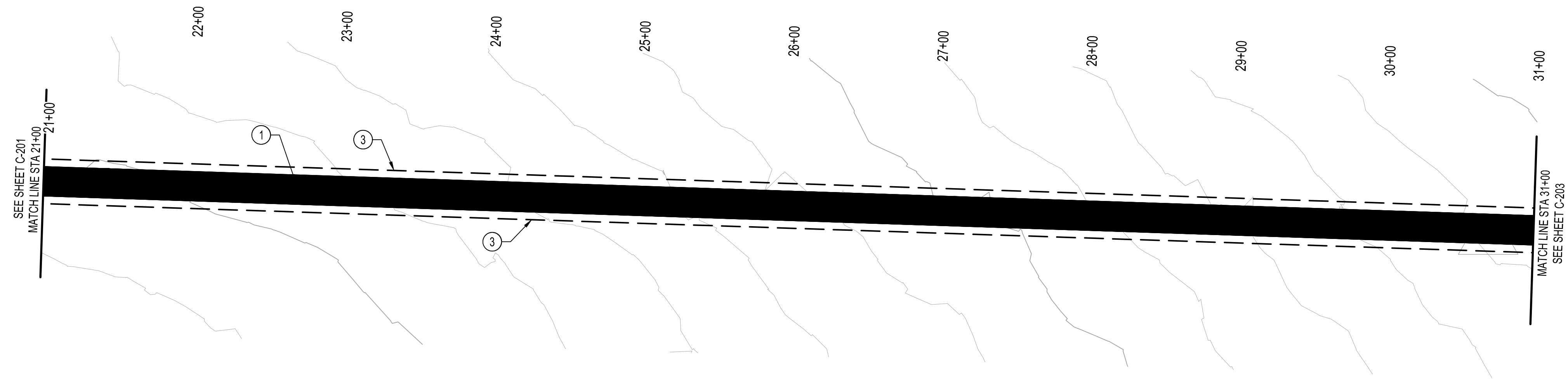
REVISIONS

NO.	DATE	BY



RANCHO VIEJO SOLAR LLC
PLAN & PROFILE

BHI PROJECT NO.	20230219	DWG NO.		SHEET	C-201	OF	33
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NOTES

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BENCH MARKS

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ENGINEER'S SEAL

KEYED NOTES

1. 20' GRAVEL ROAD SEE DETAIL SHEET C-113
2. 16' GRAVEL ROAD SEE DETAIL SHEET C-113
3. 30' ACCESS EASEMENT

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FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

REVISIONS

NO.	DATE	BY

DESIGN

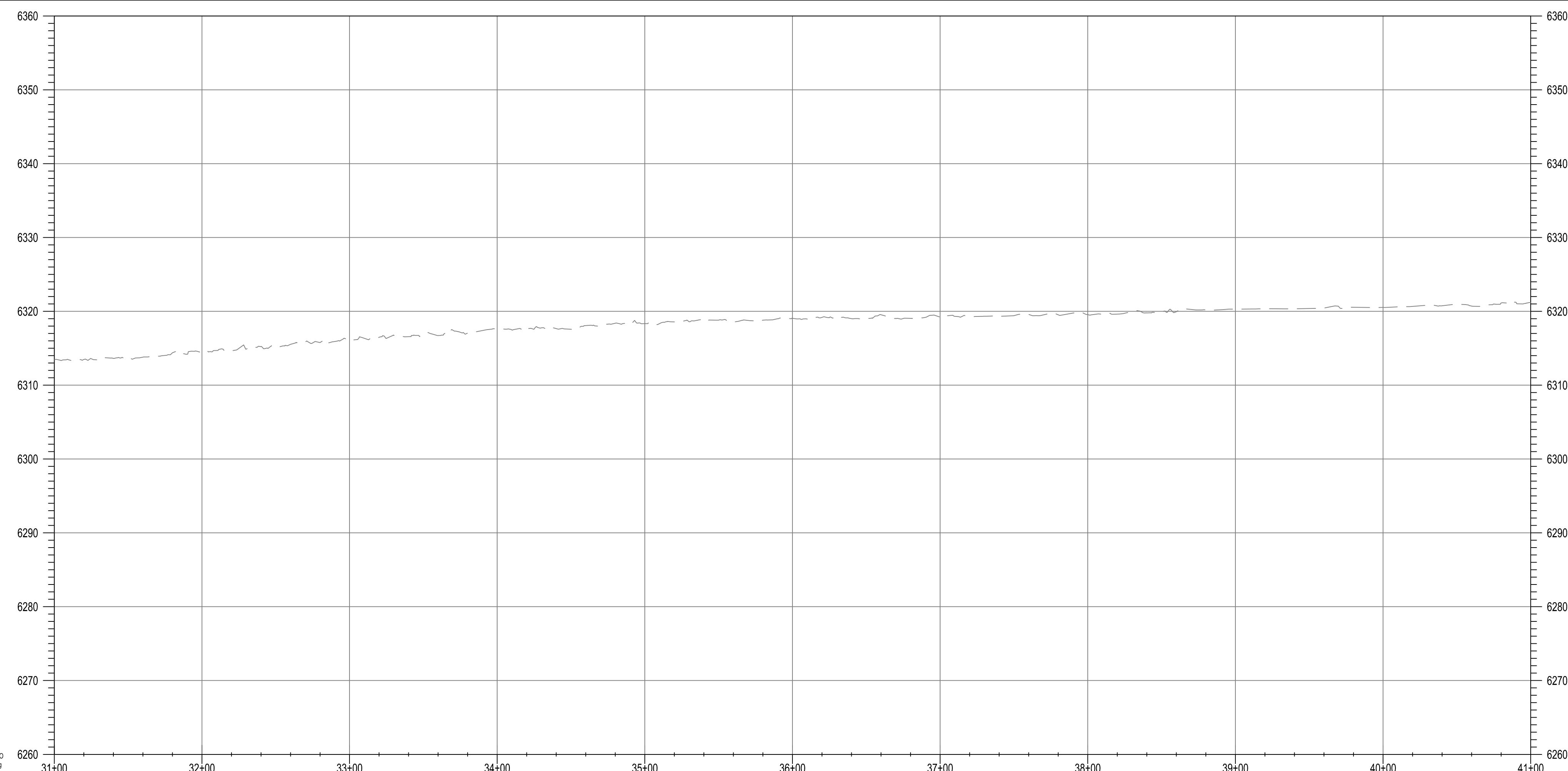
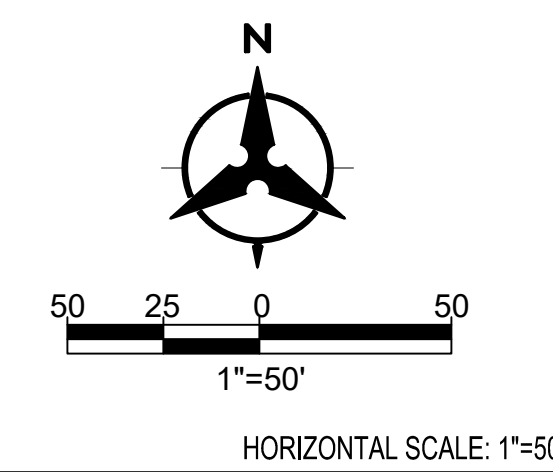
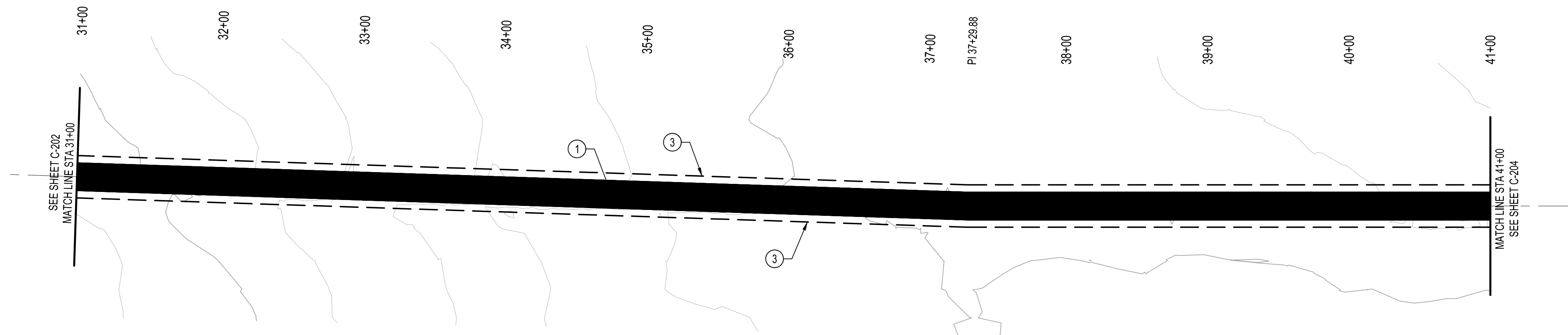
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RANCHO VIEJO SOLAR LLC

PLAN & PROFILE

BHI PROJECT NO.	20230219	DWG NO.		SHEET	C-202	OF	33
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BENCH MARKS

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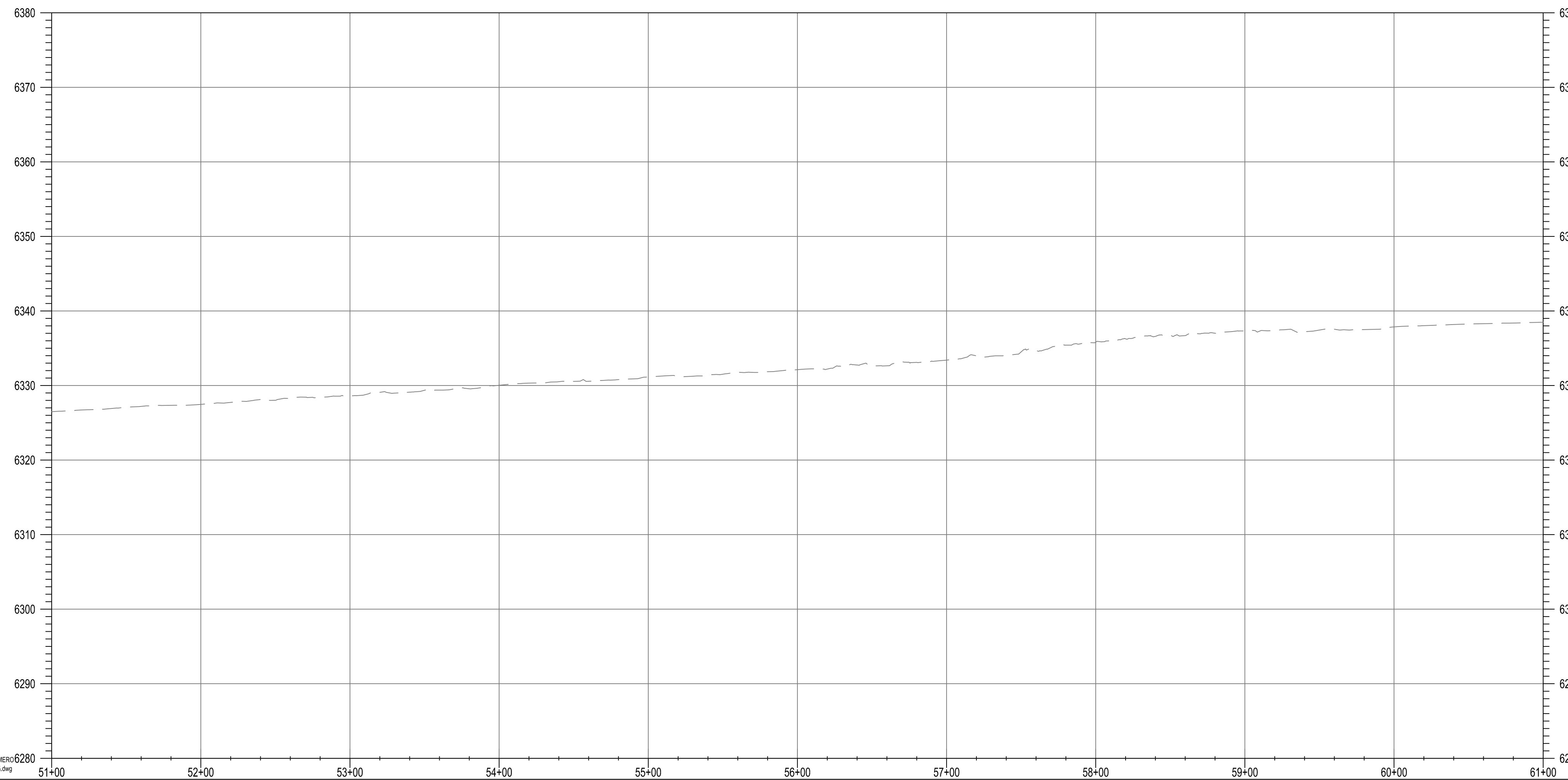
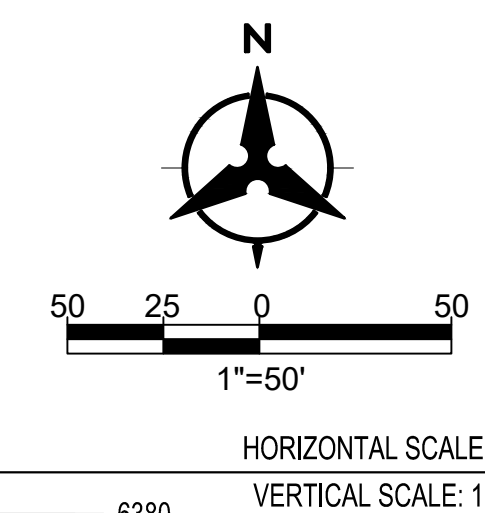
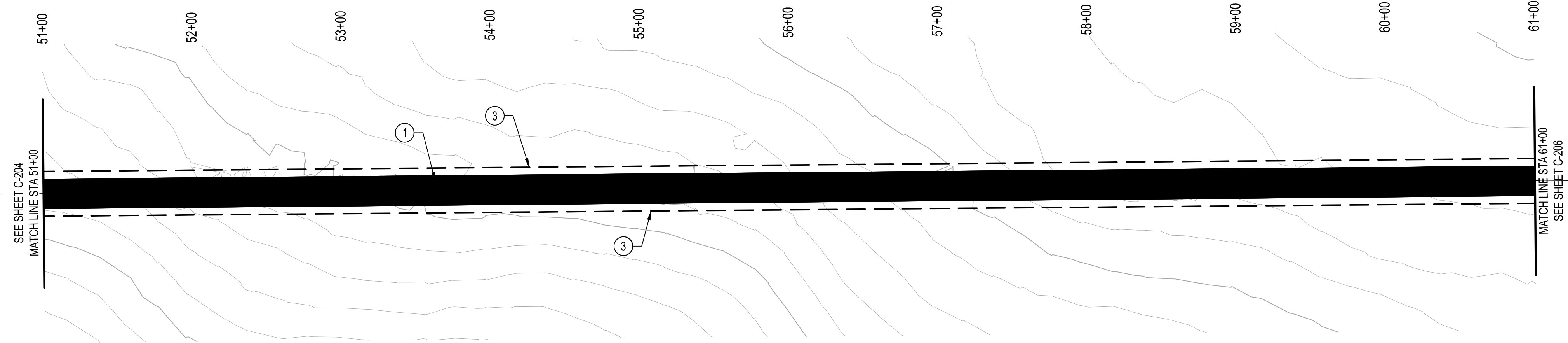
ENGINEER'S SEAL

Bohannon Huston
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RANCHO VIEJO SOLAR LLC

PLAN & PROFILE

BHI PROJECT NO. 20230219 DWG NO. SHEET C-203 OF 33



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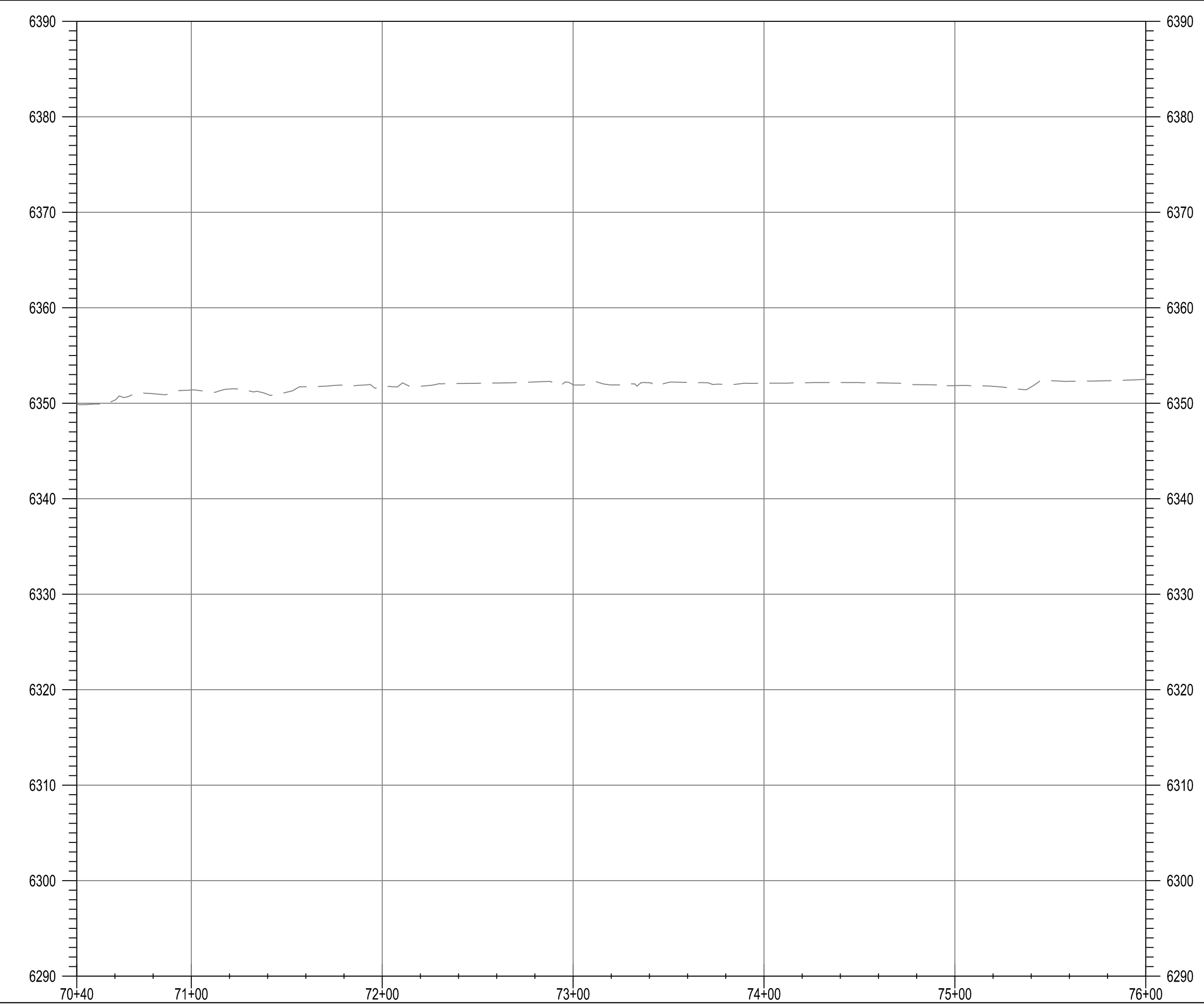
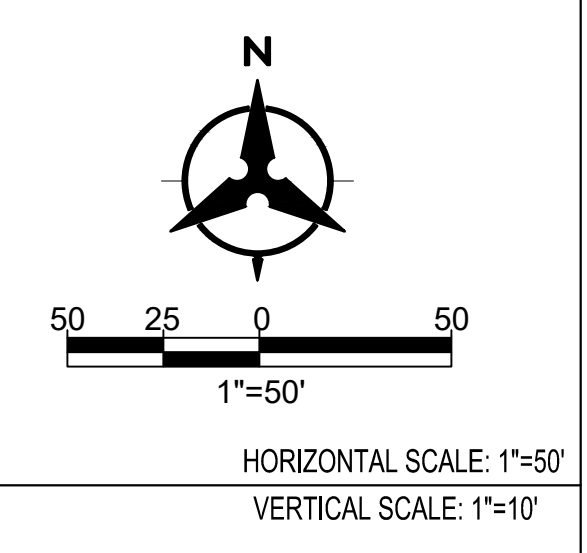
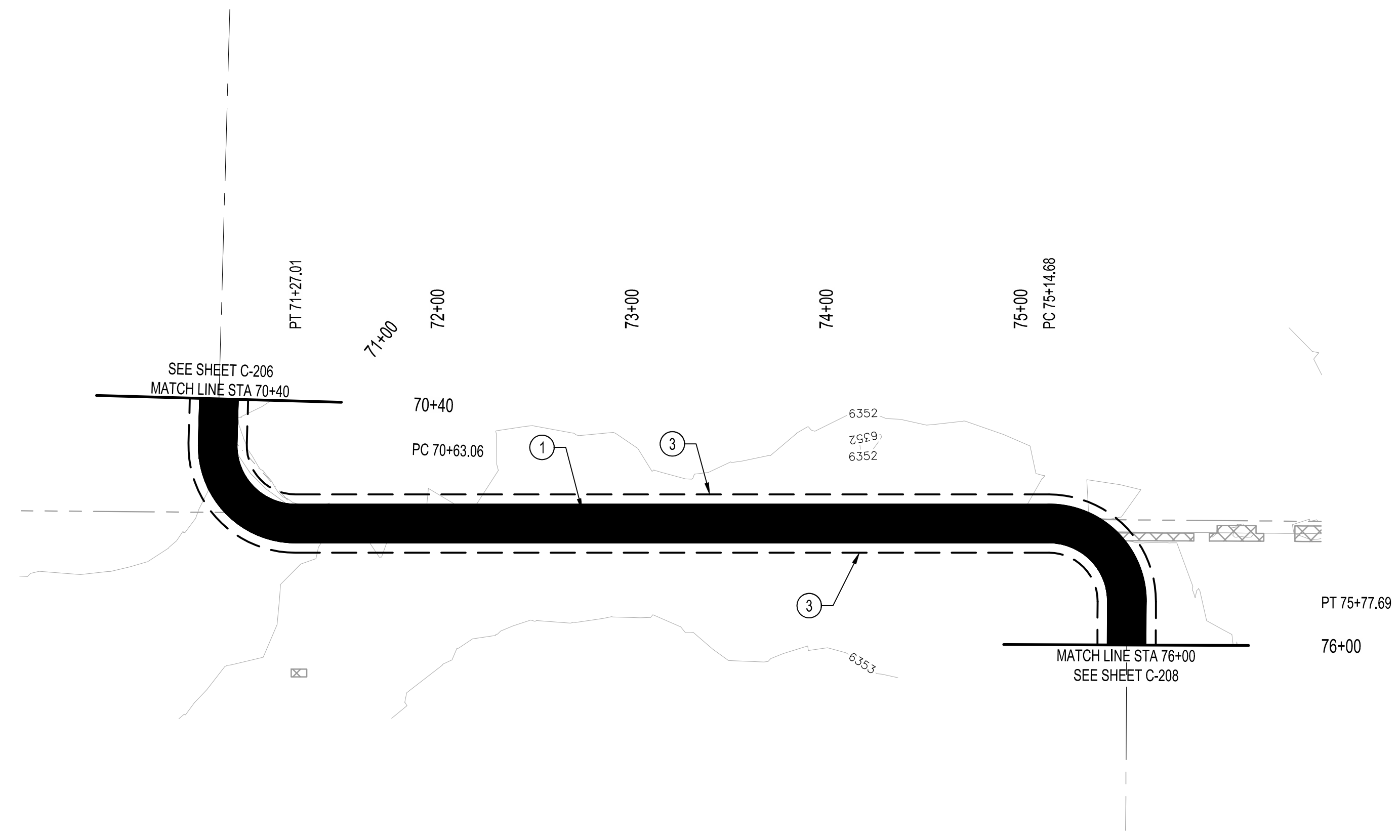
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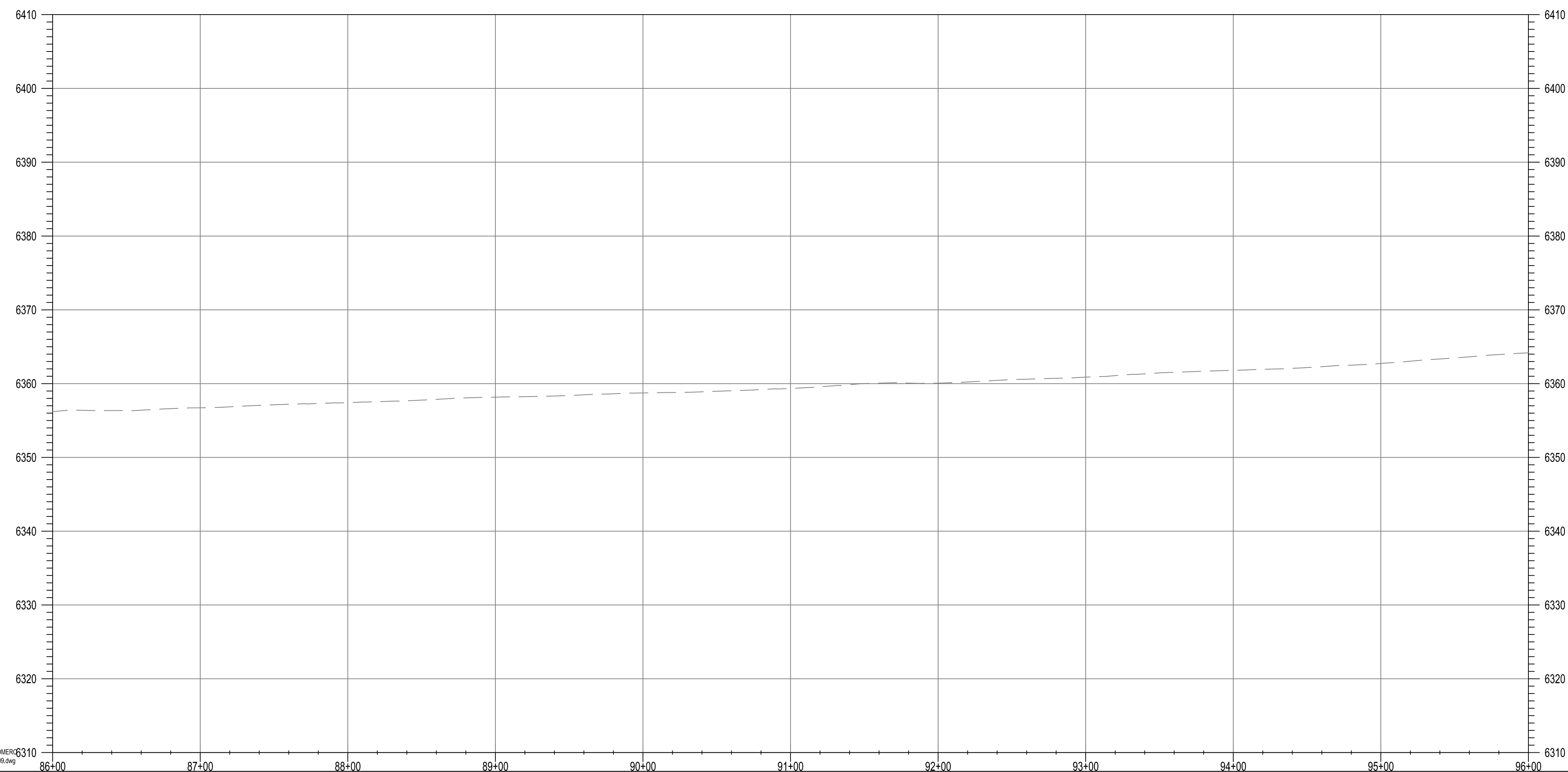
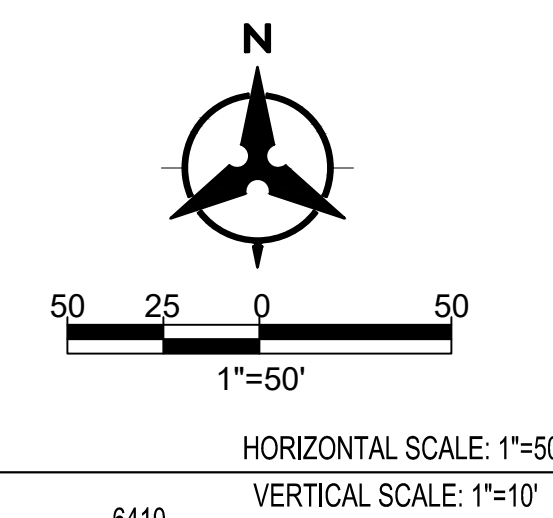
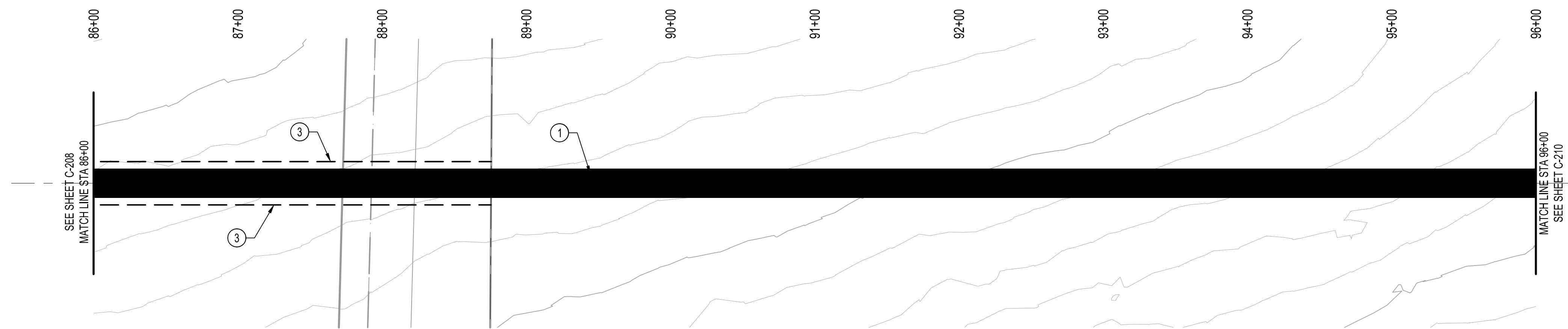
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RANCHO VIEJO SOLAR LLC

PLAN & PROFILE

BHI PROJECT NO. 20230219 DWG NO. SHEET C-207 OF 33



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BENCH MARKS	

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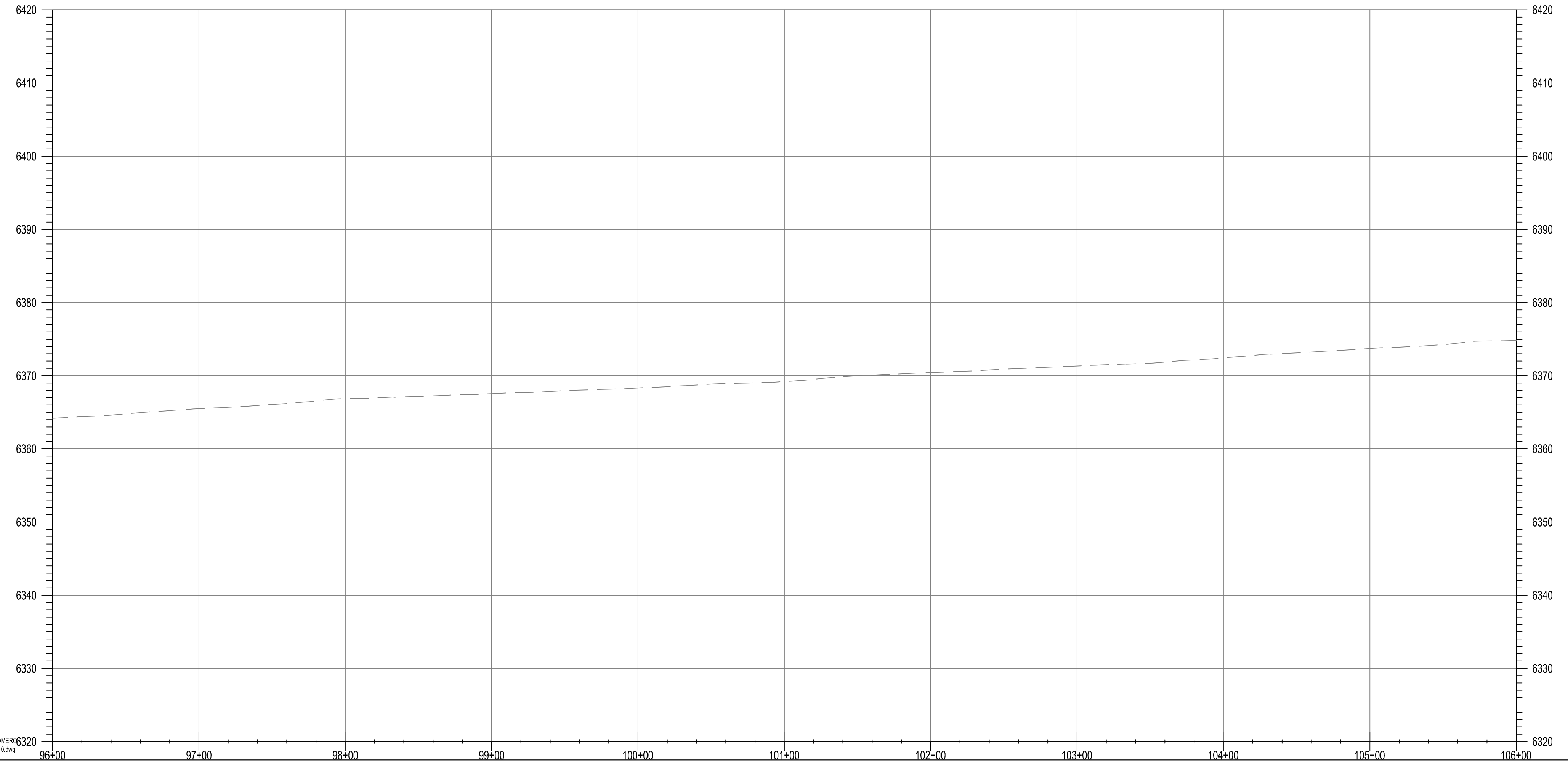
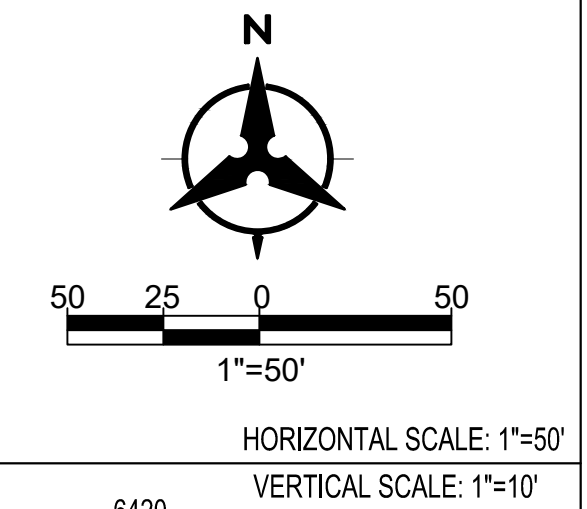
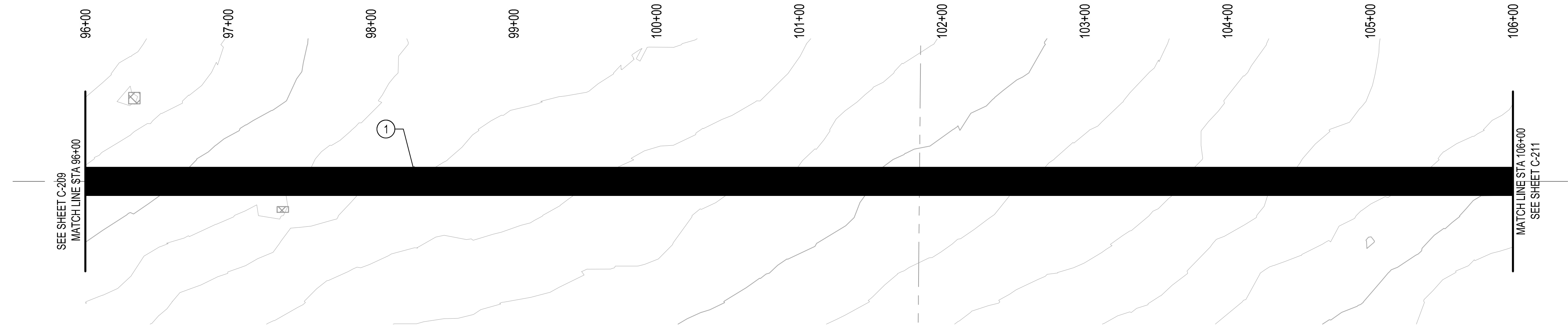


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PLAN & PROFILE

BHI PROJECT NO.	20230219	DWG NO.		SHEET	C-209	OF	33
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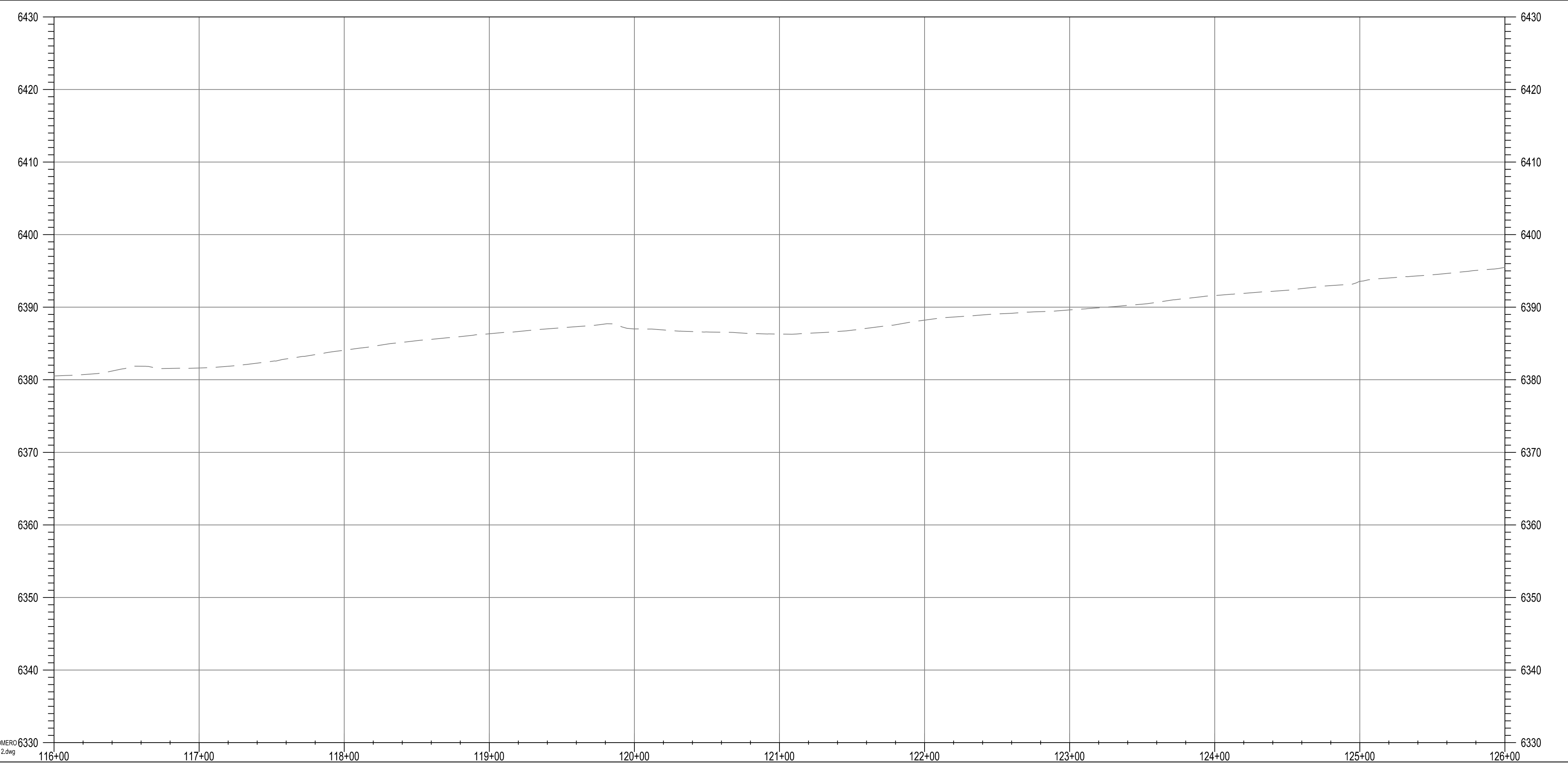
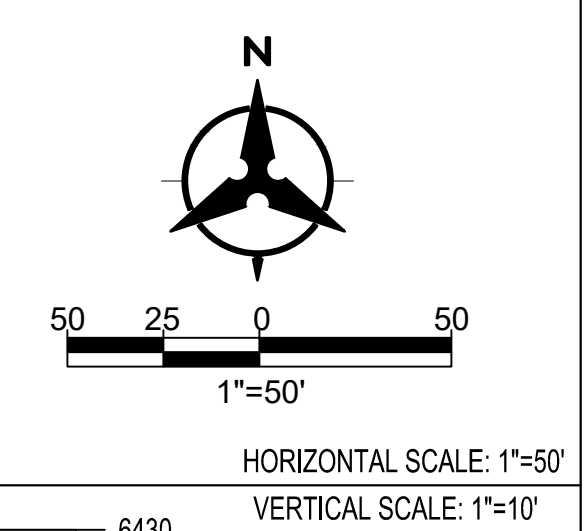
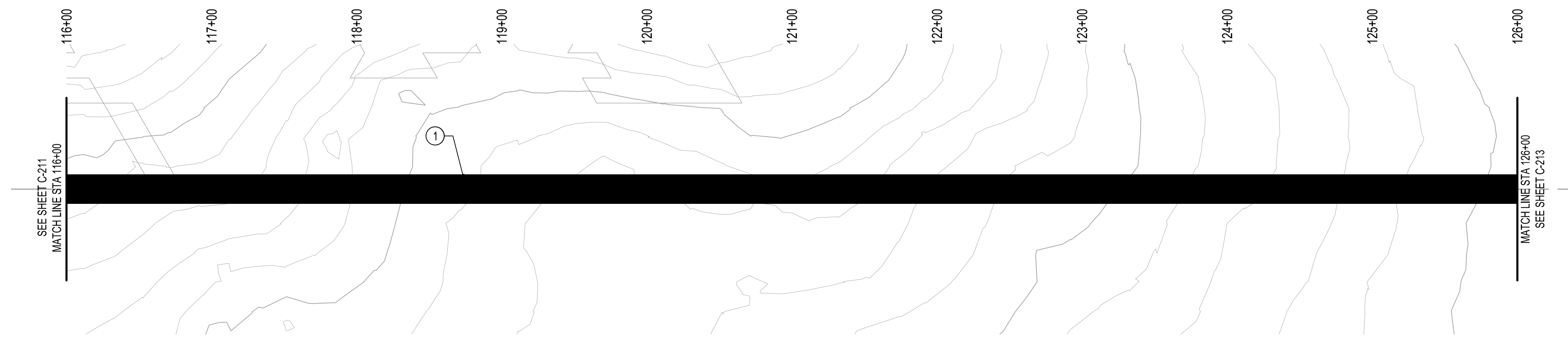
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PLAN & PROFILE

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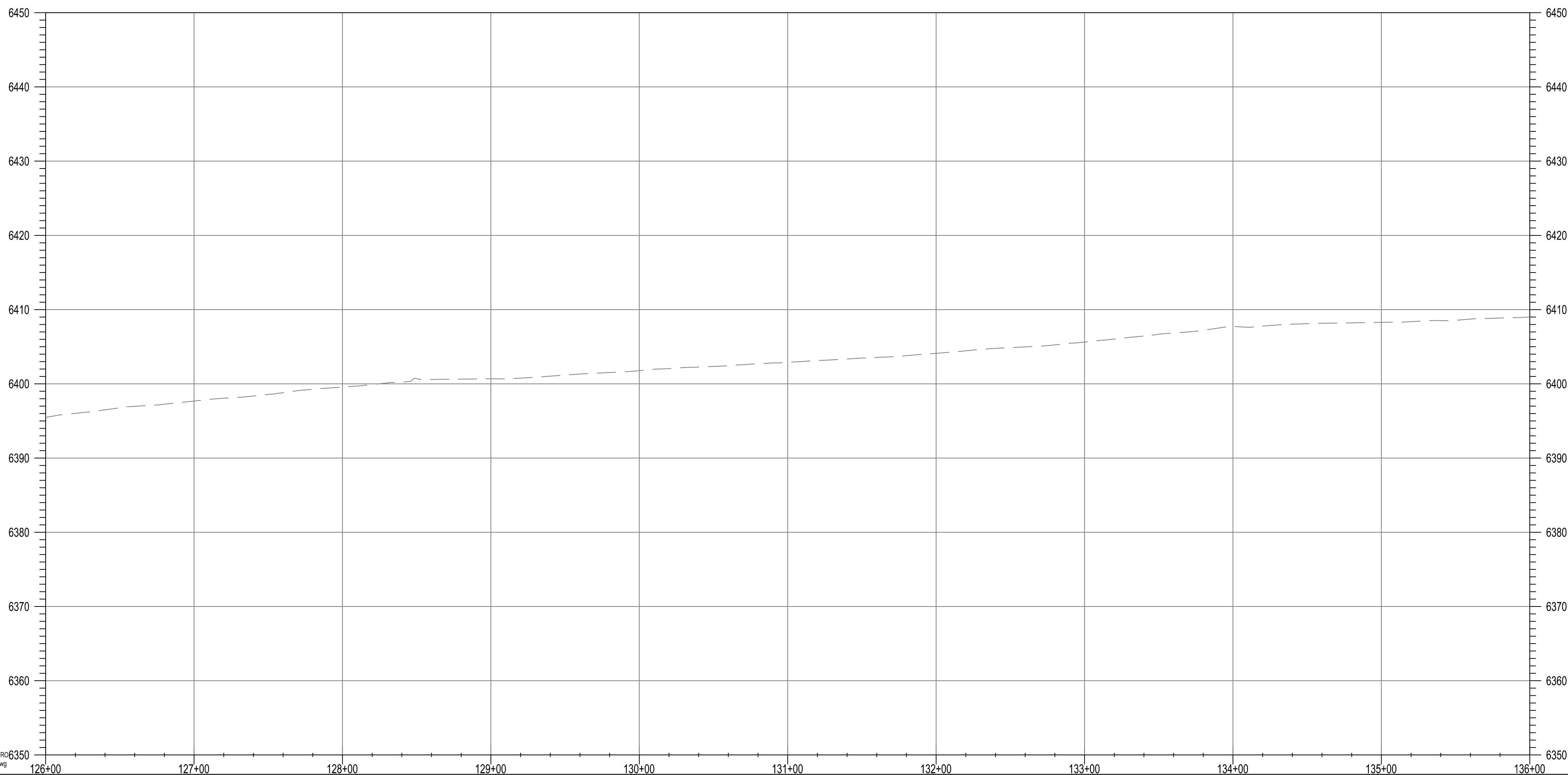
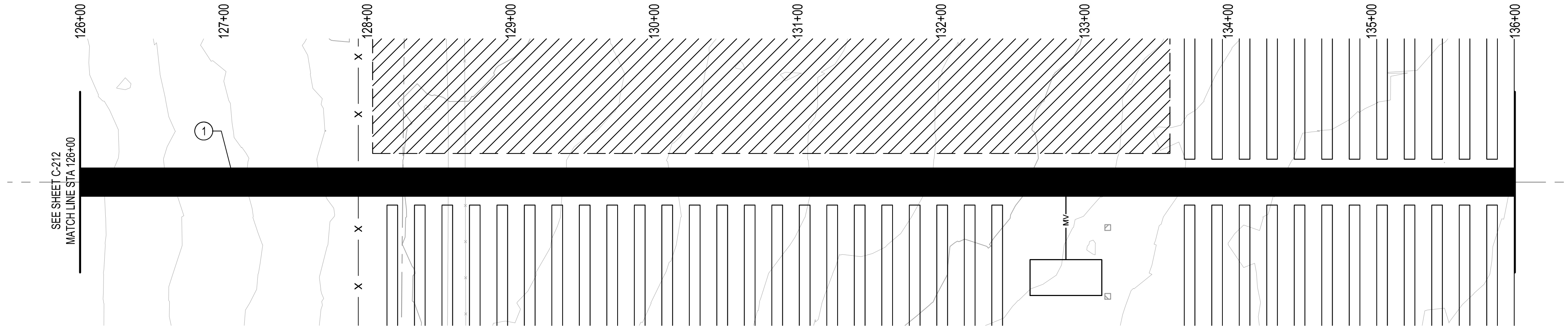
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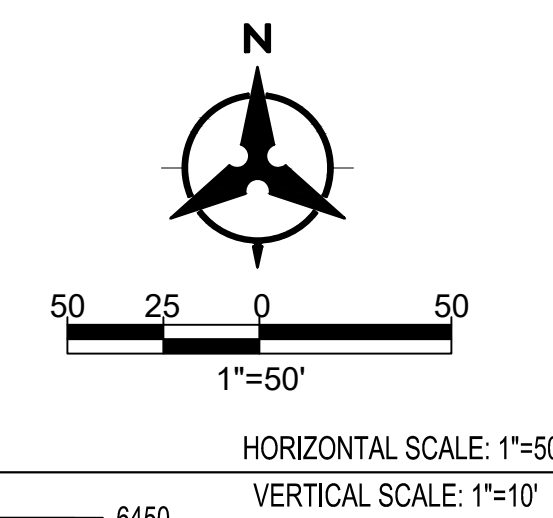
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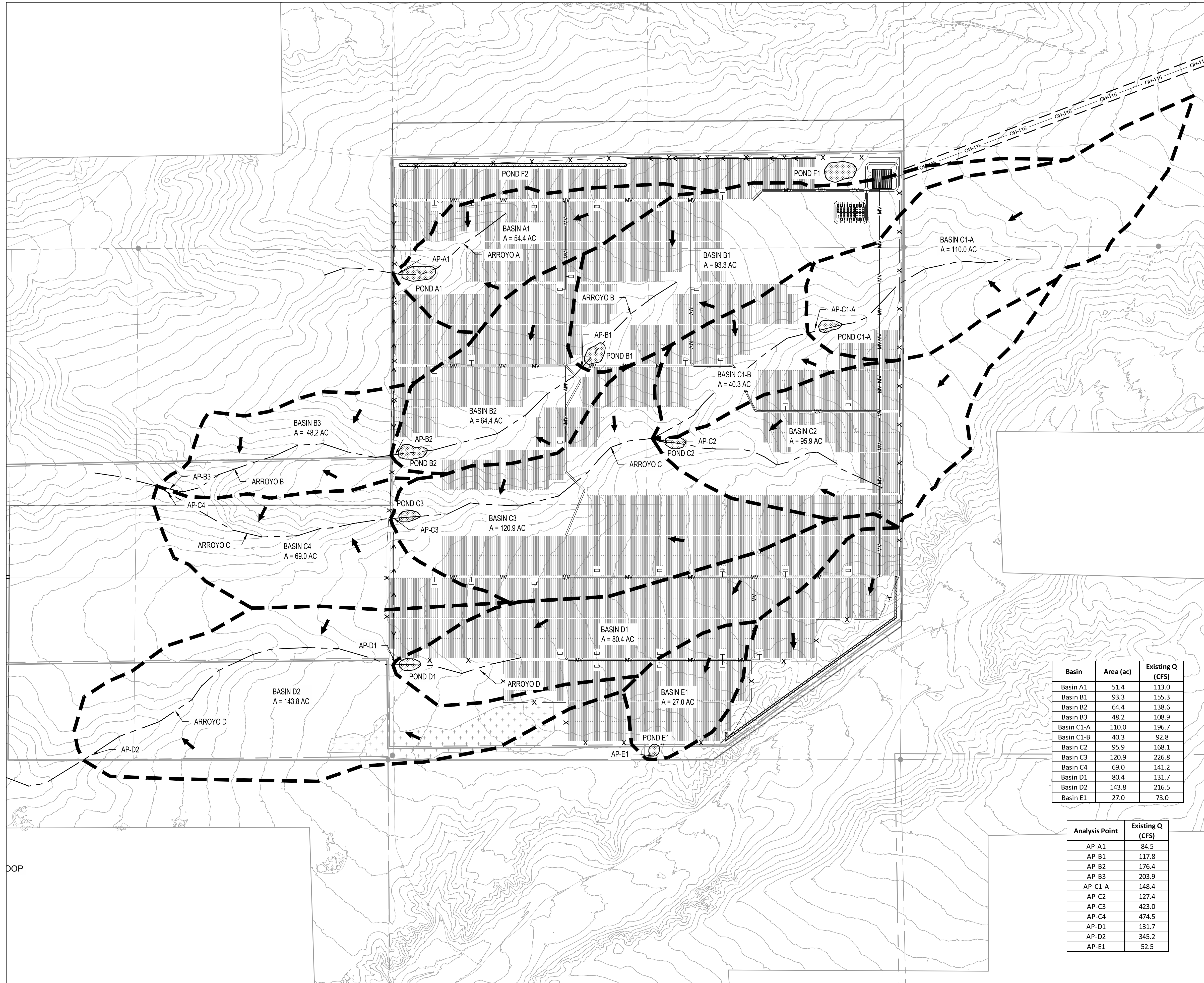
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RANCHO VIEJO SOLAR LLC

PLAN & PROFILE

BHI PROJECT NO.	20230219	DWG NO.		SHEET	C-213	OF	33
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DOP

DRAINAGE NARRATIVE

INTRODUCTION:
THIS PROJECT IS A 755 ACRE 96 MW SOLAR ARRAY SOUTH OF SANTA FE, NEW MEXICO. THE SITE IS LOCATED ON AN UNDEVELOPED TRACT OF LAND EAST OF NM-14 AND SOUTH OF THE RANCHO VIEJO. THE EXISTING SAN MARCOS NEIGHBORHOOD IS LOCATED SOUTHWEST OF THE SITE. THE PROJECT IS COMPRISED PRIMARILY OF PHOTOVOLTAIC PANELS THAT ARE DISTRIBUTED THROUGHOUT THE PROPERTY WITHIN TOPOGRAPHY THAT MINIMIZES THE NEED FOR LARGE EARTHWORK ACTIVITY, AVOIDING ENVIRONMENTALLY SENSITIVE AREAS, AND OUTSIDE OF SIGNIFICANT DRAINAGEWAYS. THE SOLAR ARRAY WILL ALSO FEATURE A SMALL AMOUNT OF SUPPORT FACILITIES AND ACCESS ROADWAYS THROUGH THE SITE.

EXISTING:
THE PROJECT AREA GENERALLY DRAINS FROM THE NORTHEAST TO THE SOUTHWEST ALONG VEGETATED DRAINAGEWAYS. EXISTING DRAINAGE BASINS THROUGHOUT THE SITE WERE DELINEATED BASED ON THE EXISTING TOPOGRAPHIC INFORMATION. ADDITIONAL ANALYSIS POINTS HAVE BEEN IDENTIFIED TO HELP CHARACTERIZE FLOWRATES AT HYDROLOGICALLY IMPORTANT AND PROJECT-CRITICAL LOCATIONS. THE HYDROLOGIC ANALYSIS USED METHODOLOGIES OUTLINED IN THE NMDOT DRAINAGE DESIGN MANUAL, SPECIFICALLY APPLYING SCS UNIT HYDROGRAPH AND SCS CURVE NUMBER (CN) LOSS PROCEDURES. EXISTING CONDITION RUNOFF CURVE NUMBERS WERE IDENTIFIED FOR THE UNDEVELOPED AREAS AND ASSUMED A MIXTURE OF GRASS, WEEDS, AND BRUSH FOR HYDROLOGIC SOIL GROUP C. AS THE AREA IS UNDEVELOPED AND NO OTHER NATURAL IMPERVIOUS SURFACES EXISTING, THEREFORE ALL EXISTING BASINS WERE CONSIDERED TO BE 0% IMPERVIOUS. BASINS WERE IDENTIFIED ACCORDING TO THE MAJOR DRAINAGEWAYS THAT THEY CONTRIBUTE TO--ARROYOS A THRU E, ALONG WITH THEIR RESPECTIVE TRIBUTARIES.

PROPOSED:
THE INTENT OF THE PROJECT IS TO MAINTAIN ALIGNMENT WITH THE EXISTING TOPOGRAPHIC CONDITIONS AND DRAINAGE PATTERNS. AS SUCH, THE BASIN BOUNDARIES IDENTIFIED IN EXISTING CONDITIONS WILL REMAIN APPLICABLE FOR PROPOSED CONDITIONS.

WHILE SOLAR PANELS ARE IMPERVIOUS, THE INFILTRATION CAPACITY OF THE GROUND SURFACE BELOW THE PANELS IS MATERIALLY UNENCLUMBERED AND UNCHANGED. THEREFORE, THE INFILTRATION RATES OR CURVE NUMBER OF THE SITE WILL NOT BE PERMANENTLY ALTERED.

THE PROPOSED SOLAR FACILITY WILL CONSIST OF ABOVE GROUND MOUNTED SOLAR MODULES AND ASSOCIATED ELECTRICAL EQUIPMENT. THE GROUND SURFACE UNDERNEATH THE PANELS WILL BE OPEN, WITH SURFACE RUNOFF FLOWING UNDERNEATH THE SOLAR ARRAYS. THE AREAS AROUND AND UNDERNEATH THE PANELS WILL BE SEEDED WITH LOW-MAINTENANCE TALL GRASS/HAY THAT WILL MAINTAIN AND, IN SOME AREAS, ENHANCE THE HYDROLOGIC CHARACTERISTICS OF THE SITE. A SMALL AMOUNT OF IMPERVIOUS SURFACE WILL BE ADDED FROM THE GRAVEL ACCESS ROADS AND PADS FOR THE ELECTRICAL EQUIPMENT. THE EXISTING TOPOGRAPHY WILL ALLOW THE PROJECT TO BE DESIGNED TO MINIMIZE GRADING AND PREVENT EROSION. EXISTING DRAINAGE PATTERNS WILL BE MAINTAINED TO THE FURTHEST EXTENT POSSIBLE AND DRAINAGE WASHES WITHIN THE PROJECT BOUNDARY WILL BE AVOIDED.

INCREASES IN IMPERVIOUSNESS FOR THE SITE WILL BE MINIMAL. ON-SITE ACCESS ROADS WILL BE COMPACTED NATIVE SOIL OR GRAVEL SIMILAR TO EXISTING CONDITIONS. THE SITE IS RANGELAND WITH NATIVE GRASSES AND SHRUBS AND ONLY MINOR GRADING IS EXPECTED WITH NO CHANGES TO THE EXISTING SITE DRAINAGE PATTERNS. THE SITE WILL BE MOWED BUT NOT GRUBBED TO KEEP VEGETATION ROOT INTEGRITY AND PROMOTE VEGETATION GROWTH.

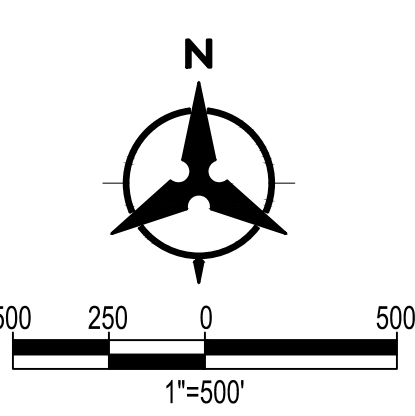
THE ADDITIONAL IMPERVIOUS AREA REPRESENTS A VERY SMALL PERCENTAGE OF THE WATERSHED THAT IS CONTRIBUTING TO THE STREAMS PASSING THROUGH THE PROPOSED SITE. THIS INCREASE IN IMPERVIOUS AREA CONSTITUTES A SMALL ENOUGH AREA THAT THE ADDITIONAL IMPERVIOUS AREA FOR THE SITE WILL HAVE MINIMAL IMPACT ON THE EXISTING WATERSHED HYDROLOGICALLY.

Basin	Area (ac)	Existing Q (CFS)
Basin A1	51.4	113.0
Basin B1	93.3	155.3
Basin B2	64.4	138.6
Basin B3	48.2	108.9
Basin C1-A	110.0	196.7
Basin C1-B	40.3	92.8
Basin C2	95.9	168.1
Basin C3	120.9	226.8
Basin C4	69.0	141.2
Basin D1	80.4	131.7
Basin D2	143.8	216.5
Basin E1	27.0	73.0

Analysis Point	Existing Q (CFS)
AP-A1	84.5
AP-B1	117.8
AP-B2	176.4
AP-B3	203.9
AP-C1-A	148.4
AP-C2	127.4
AP-C3	423.0
AP-C4	474.5
AP-D1	131.7
AP-D2	345.2
AP-E1	52.5

LEGEND

- DRAINAGE BASIN BOUNDARY
- - - MAJOR ARROYO
- SWALE
- GENERAL FLOW DIRECTION
- POND
- ▨ BERM



BENCH MARKS

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**RANCHO VIEJO SOLAR LLC
DRAINAGE MANAGEMENT PLAN**