



PLANNING & ZONING COMMISSION

TO: City of Peoria Planning & Zoning Commission
FROM: Development Review Board (Prepared by Leah Allison)
DATE: February 7, 2019
CASE NO: PZ 19-04

REQUEST: Hold a Public Hearing and forward a recommendation to City Council on the request of Gregory J. Tiemeier of RLI Insurance Company to amend an existing Special Use Ordinance No. 14,254 as amended, in a Class C-2 (Large Scale Commercial) District for a Shopping Center to add an Accessory Solar Facility for the properties located at 9000 N Lindbergh Dr, 9025 N Lindbergh Dr, 9106 N Lindbergh Dr, 9118 N Lindbergh Dr, 9126 N Lindbergh Dr, 9128 N Lindbergh Dr, 1021 W Bird Blvd, 1101 W Bird Blvd, 1116 W Bird Blvd, 1200 W Bird Blvd, 8903 N Hale Ave, 8919 N Hale Ave, and 9109 N Knoxville Ave, (Parcel Identification Nos. 14-05-201-016, 09-32-455-006, 09-32-455-003, 09-32-455-002, 14-05-202-017, 14-05-202-021, 14-05-201-004, 14-05-201-009, 14-05-201-005, 14-05-202-013, 09-32-451-019, 09-32-455-001, 09-32-455-005, 14-05-201-006, 14-05-201-007, 14-05-202-012, 14-05-202-019, 14-05-202-020, and 14-05-251-008), Peoria IL. (Council District 5)

SUMMARY OF PROPOSAL & REQUESTED WAIVERS

The petitioner is requesting to amend the existing Special Use to add an accessory solar facility located on approximately 6.5 acres (of the 28 acre site). The solar facility is comprised of ground mounted and roof mounted fixed-tilt panels placed on vacant land, an existing parking lot, and two building rooftops. The system is designed as a daylight-use system without storage for non-daylight time. The proposed solar field is further described below:

Development Item	Applicant Proposal	Applicant Waiver Request & Justification	DRB Comment
Parking	Placement of the solar panels will eliminate approx 70 parking spaces of 499 total spaces. Handicap parking unchanged.	None	No objection
Mechanical & Utility Screening	Transformers associated with the solar facility will be screened.	None	No objection
Landscaping	6-ft tall solid hedge along frontage of Hale Ave. Existing plantings for front yards and parking lot to remain.	Alternative landscape plan (per Section 8.2.15) to allow for hedge (561 points) in place of tree (403 points) requirement. And allow for existing trees and shrubs.	No objection
Screening	A 6-ft tall solid privacy fence located along the frontage of Hale Ave. Maximum front yard fence height, per the Unified Development Code, is 3 ft	Increase the fence height from 3 feet to 6 feet to provide security	No objection
Signs	No additional signage	None	No objection
Exterior Lighting	No additional lighting	None	No objection
Setbacks	All setbacks in compliance except for the 15-ft side yard setback of the solar field.	Reduce the side yard setback from 20 ft to 15 ft for the solar field.	No objection
Height	Ground mounted panels are 8 ft – 10 ft in height. Roof mounted panels are extended up to 4 ft from the roof.	None	No objection

Development Item	Applicant Proposal	Applicant Waiver Request & Justification	DRB Comment
Sidewalks	Maintain existing sidewalk system	No requirement for sidewalks on Bird and Hale	Staff recommends sidewalks on all public frontages.

BACKGROUND

Property Characteristics

The special use property contains 28 acres developed with the RLI Insurance campus and other commercial businesses. It is zoned Class C-2 (Large Scale Commercial) and surrounded by industrial and commercial zoning to the west and south, commercial and residential zoning to the east, and commercial zoning to the north. The proposed solar facility is located on approximately 6.5 acres of the southernmost parcels. These parcels are surrounded by industrial and commercial zoning to the west and south, and commercial zoning to the north and east.

History

On February 18, 1997 a Special Use for a Shopping Center was approved for approximately 12 acres bound by Knoxville Ave, Bird Blvd, and Lindbergh Dr. Amendments to the special use in 2007 and 2010 allowed for a hotel expansion and a drive-thru addition. In 2015, the special use was amended to add property and allow for a building addition, parking lot expansion, and street vacation and dedication.

Date	Zoning
1931 - 1958	Not in the City
1958 - 1963	Not in the City
1963 - 1990	C2 (Neighborhood-Commercial)
1990 - Present	C2 (Large Scale Commercial)

DEVELOPMENT REVIEW BOARD ANALYSIS

The DRB examines each application against the appropriate standards found in the Code of the City of Peoria and/or in case law.

Standard	Standard Met per DRB Review	DRB Condition Request & Justification
No detriment to public health, safety, or general welfare	Yes	None
No injury to other property or diminish property values	Yes	None
No impediment to orderly development	Yes	None
Provides adequate facilities	Yes	None
Ingress/Egress measures designed to minimize traffic congestion	Yes	None
If a public use/service, then a public benefit	N/A	N/A
Conforms to all district regulations	No	Fence height, side yard setback, landscaping, and sidewalk waiver
Comprehensive Plan Critical Success Factors	Reinvest in Neighborhoods	N/A
City Council Strategic Plan Goals	Smart Population Growth	N/A

DEVELOPMENT REVIEW BOARD RECOMMENDATION

The Development Review Board recommends APPROVAL of the request with the following condition and waivers:

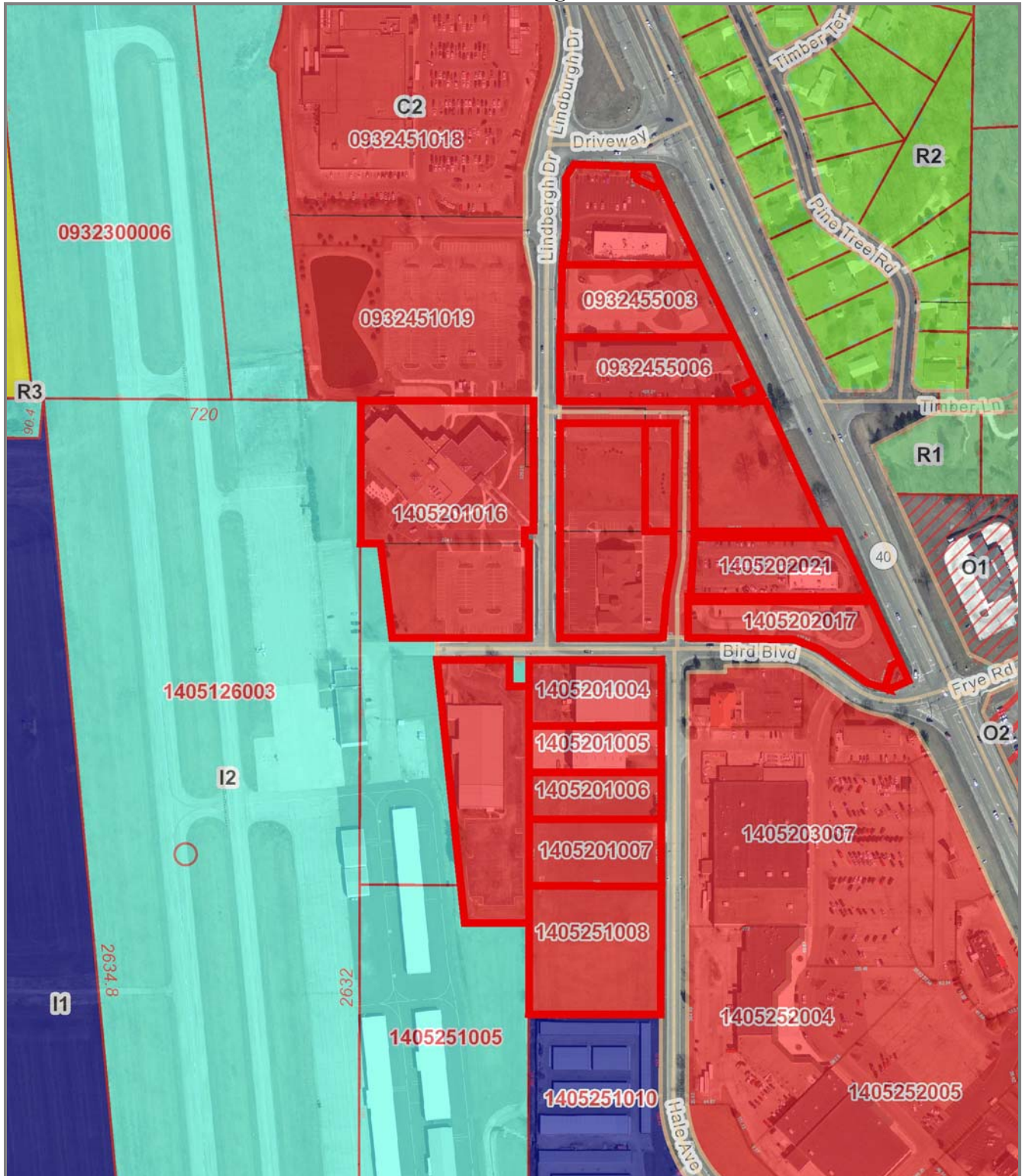
- 1) Install sidewalks along the frontages of Bird Blvd and Hale Ave.
- 2) Waiver to allow a six-foot tall fence along the frontage of Hale Ave.
- 3) Waiver to allow alternative landscaping for front yard along Have Ave.
- 4) Waiver to reduce the side yard setback from 20 feet to 15 feet for the solar facility.

NOTE: If a City Code Requirement is not listed as a waiver, then it is a required component of the development. The applicant is responsible for meetings all applicable code requirements through all phases of the development.

ATTACHMENTS

1. Surrounding Zoning
2. Aerial Photo
3. Site Plan with landscaping
4. Renderings

RLI - Lindbergh Dr

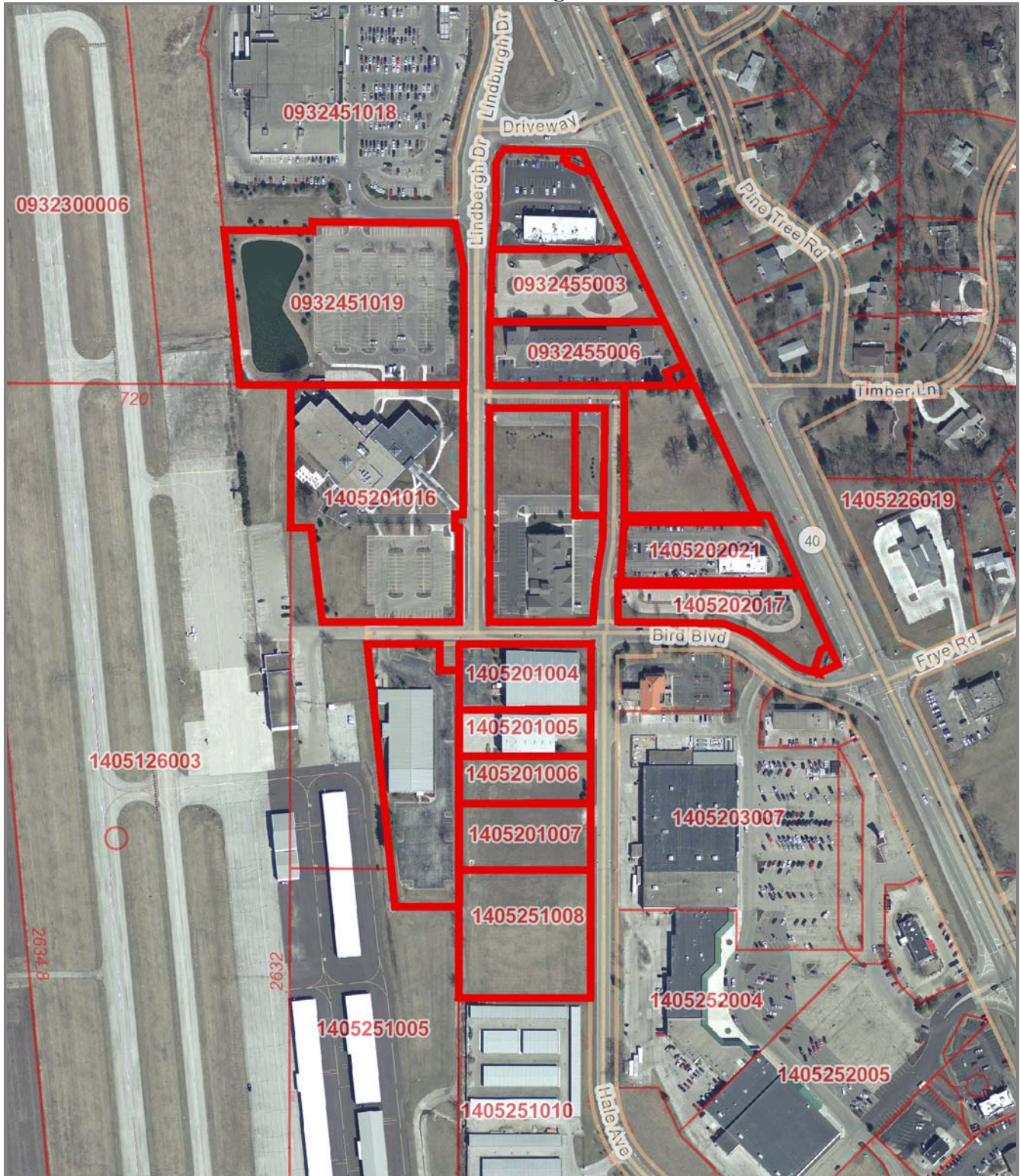


Disclaimer: Data is provided 'as is' without warranty or any representation of accuracy, timeliness or completeness. The burden for determining fitness for, or the appropriateness for use, rests solely on the requester. The requester acknowledges and accepts the limitations of the Data, including the fact that the Data is in a constant state of maintenance. This website is NOT intended to be used for legal litigation or boundary disputes and is informational only. -Peoria County GIS Division

Map Scale
1 inch = 333 feet



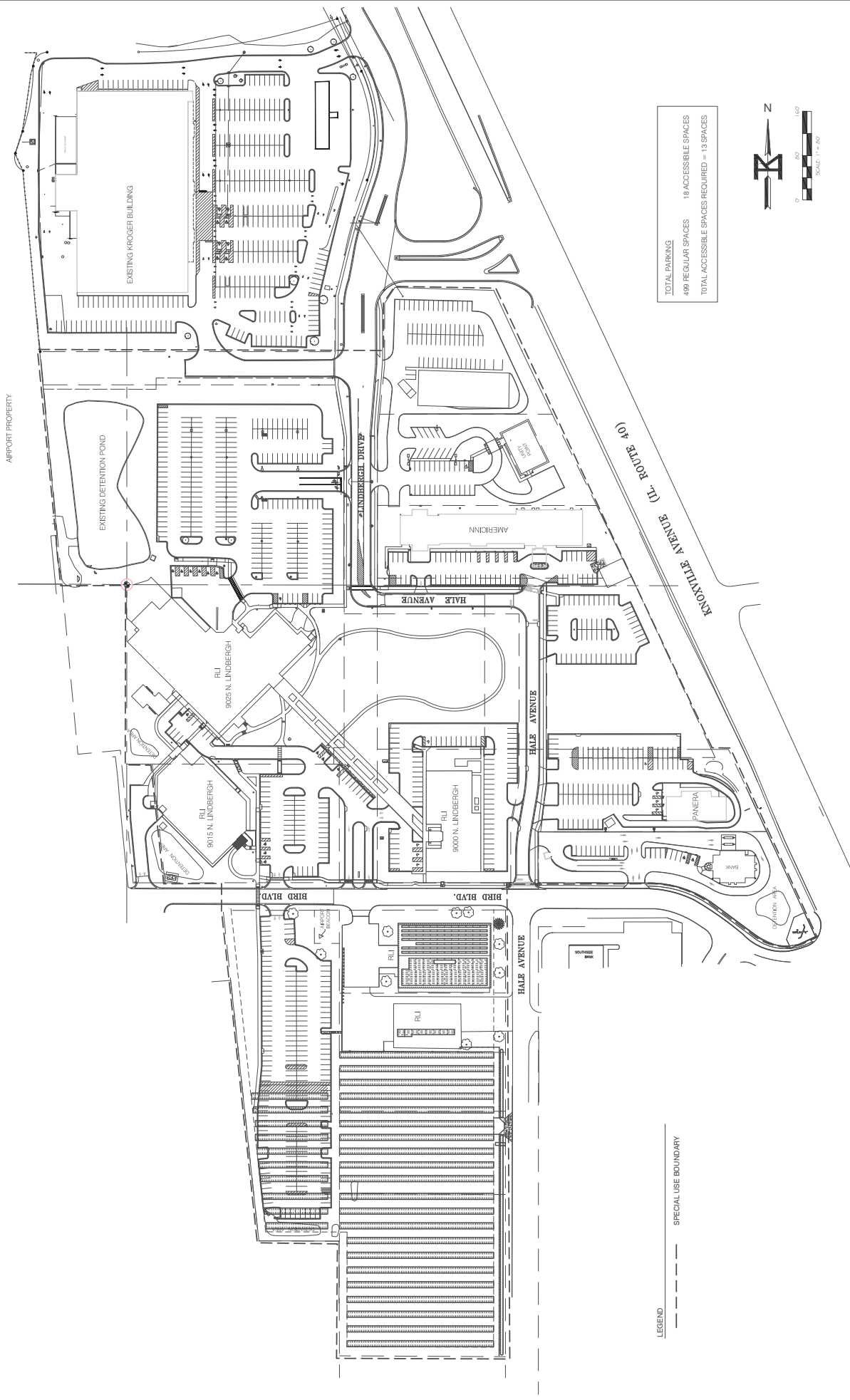
RLI - Lindbergh Dr



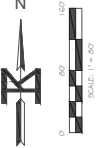
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Map Scale
1 inch = 333 feet





TOTAL PARKING
 489 REGULAR SPACES 19 ACCESSIBLE SPACES
 TOTAL ACCESSIBLE SPACES REQUIRED = 19 SPACES



PROJECT NO. 04-306
 SHEET 1 OF 3
 DRAWING
 C1.0

TITLE:
 RLI EXISTING OVERALL CAMPUS SITE PLAN
 SPECIAL USE BOUNDARY

CLIENT:
 RLI PEORIA CAMPUS

REV.	DATE	BY	CHKD.	SCALE	DATE

FILE NAME: L:\work\10-04-16\mg Dec 27, 2018

M MOHR & KERR ENGINEERING & LAND SURVEYING, P.C.
 5901 N. Prospect Road, Suite 6B
 Peoria, Illinois 61614
 www.mohr-kerr.com
 Professional Design Firm #184-0056091



NOTE: DIMENSIONS ON SOLAR PANELS AND AISLE ARE DEPENDENT ON FINAL PANEL MANUFACTURER. NUMBER OF ROWS AND GENERAL SPACING OF PANEL SHALL NOT CHANGE.

LANDSCAPING
 FRONT YARD - 600' - 403 POINTS REQUIRED
 EXISTING SHADE TREE 3 @ 15 POINTS
 EVERGREENS - 1 @ 20 POINTS
 SHRUBS - 107 @ 3 POINTS
 GREEN MOUNTAIN BOXWOOD HEDGE
 TOTAL POINTS PROVIDED - 620 POINTS

OVERALL EXISTING SITE PLAN
 SCALE: 1" = 30'

DATE	12/27/18
CHECKED	DATE
SCALE	1" = 30'
DATE	12/27/18
DATE	12/27/18
DATE	12/27/18

CLIENT: RUI PEORIA CAMPUS
 TITLE: SOLAR FARM SPECIAL USE EXHIBIT

MOHR & KERR ENGINEERING & LAND SURVEYING, P.C.
 5901 N. Prospect Road, Suite 408
 Peoria, Illinois 61614
 Professional Design Firm #184-006091
 www.mohr-kerr.com

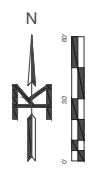
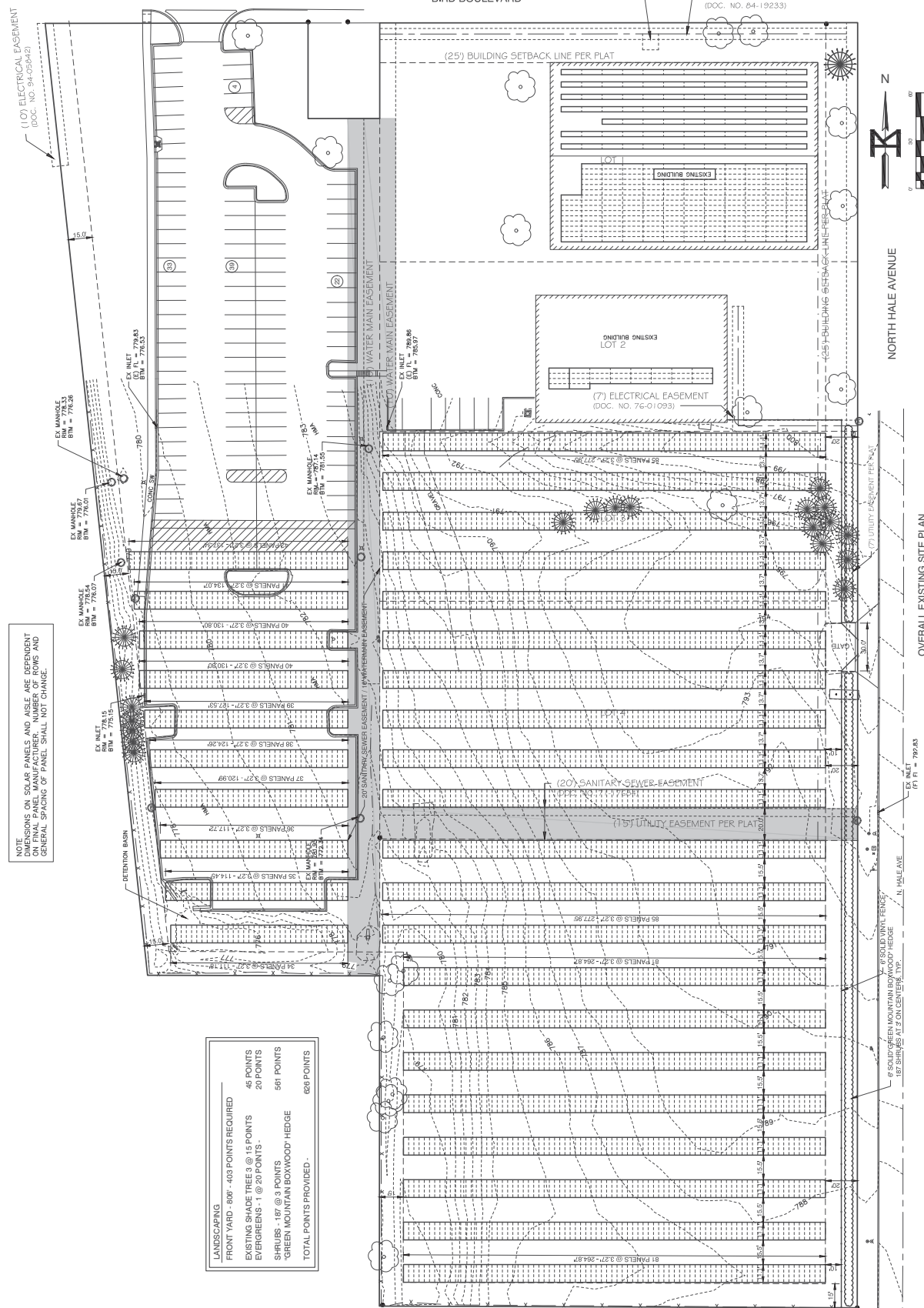
PROJECT NO. 18-036
 SHEET 2 OF 3
 DRAWING NO. C2.0

(10) ELECTRICAL EASEMENT (DOC. NO. 34-05924)

NOTE: DIMENSIONS ON SOLAR PANELS AND AISLE ARE DEPENDENT ON FINAL PANEL MANUFACTURER. NUMBER OF ROWS AND GENERAL SPACING OF PANEL SHALL NOT CHANGE.

LANDSCAPING

FRONT YARD - 600' - 403 POINTS REQUIRED	46 POINTS
EXISTING SHADE TREE 3 @ 15 POINTS	20 POINTS
EVERGREENS - 1 @ 20 POINTS	56 POINTS
SHRUBS - 107 @ 3 POINTS	321 POINTS
GREEN MOUNTAIN BOWNOOD HEDGE	628 POINTS
TOTAL POINTS PROVIDED -	628 POINTS



PHOTOLOG: 04.30.2018
 SHEET 3 OF 3
 DRAWING: C2.1

TITLE: **SOLAR FARM SPECIAL USE EXHIBIT**

CLIENT: **RUI PEORIA CAMPUS**

SCALE: 1" = 30'

REV.	DATE	BY	CHKD.	SCALE	DATE
1	12/27/18			1" = 30'	12/27/18

OVERALL EXISTING SITE PLAN
 SCALE: 1" = 30'

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 Peoria, Illinois 61614
 Professional Design Firm #184-005091
 www.mohrland.com

REVISION	DATE	DESCRIPTION
1	10/27/10	INITIALS
2	11/17/10	REVISED
3	12/02/10	REVISED
4	12/15/10	REVISED
5	12/22/10	REVISED

DESIGNER/CLIENT:

UNIRAC

ENGINEERING CONSULTANT:

Design Optimization Technologies
1809 Reference Street
San Clemente, CA 92673
Phone: (858) 724-8872
www.DOTeStructural.com

PROFESSIONAL SEAL

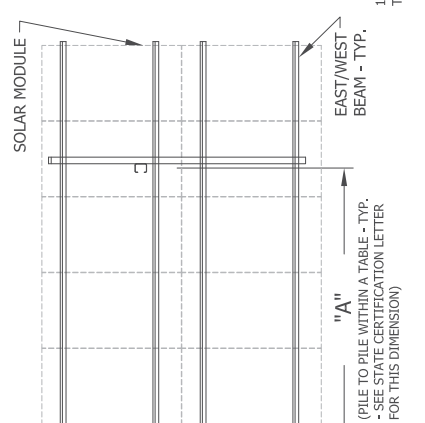
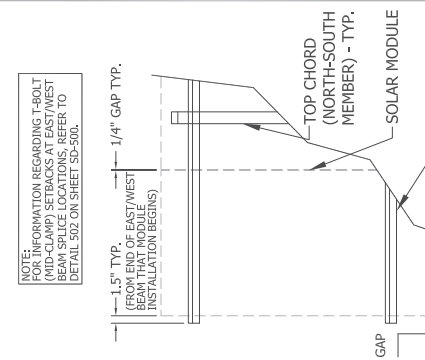
SEE STATE
SPECIFIC STAMPED
& SIGNED GFT
CERTIFICATION
LETTER

UNIRAC'S DGFT
DISTRIBUTION GROUND FIXED TILT
STRUCTURAL RACKING DRAWINGS

1111 Broadway Boulevard, 18th
Alhambra, CA 91801
Phone: (626) 242-4111
Fax: (626) 242-4112
www.unirac.com

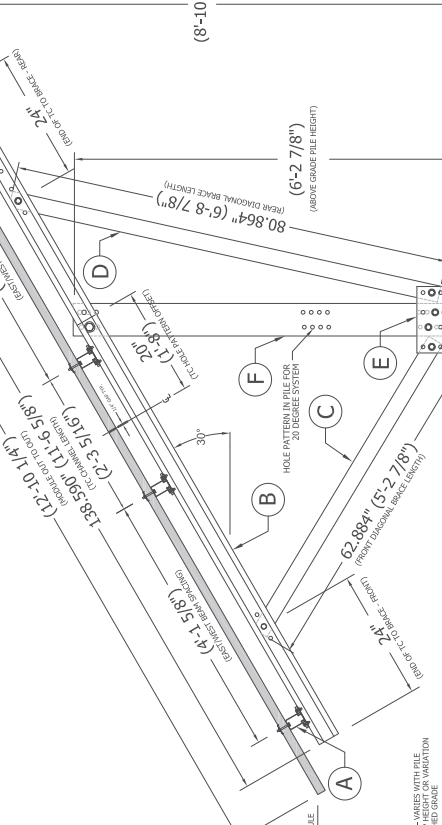
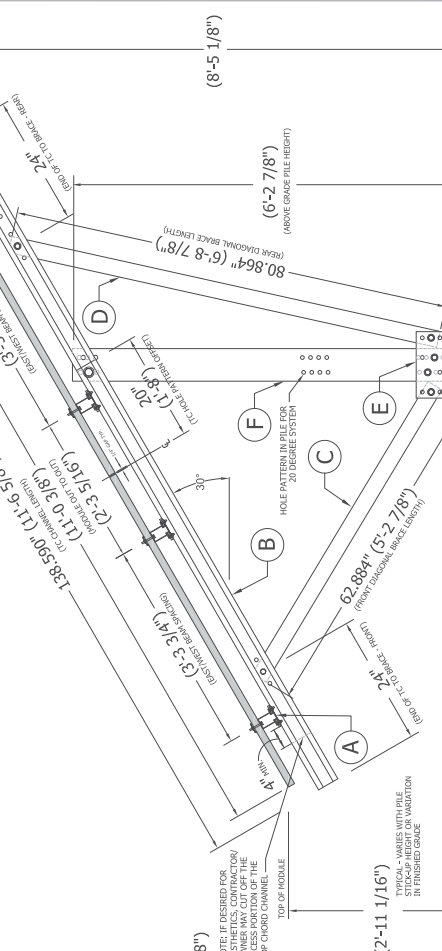
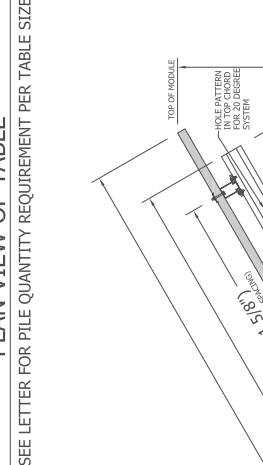
PROJECT NUMBER: SD-3000
DRAWING NUMBER: SD-3000
DATE: 12/22/10
SCALE: AS SHOWN

DGFT
SECTION AND PARTS LIST
(30 DEGREE TILT)



GFT PARTS LIST

REF NUMBER	PART DESCRIPTION	QUANTITY	THICKNESS	FINISH
A	ALUMINUM E-W BEAM	-	-	MILL
B	TOP CHORD CHANNEL	14	G180	G180
C	FRONT DIAGONAL BRACE	14	G180	G180
D	REAR DIAGONAL BRACE	14	G180	G180
E	DIAGONAL BRACE PLATE	-	-	G180
F	C-PILE	11	G235	G235



RACKING-DIMENSION NOTES:

- THIS CROSS SECTION AND DIMENSIONS SHOWN ARE SPECIFIC TO A SOLAR RACKING SYSTEM. DIMENSIONS SHOWN ARE BASED ON THE ACTUAL SOLAR MODULE SELECTION. REFER TO STATE SPECIFIC CERTIFICATION LETTER FOR MORE INFORMATION ON THE WEIGHT LIMITS. DIMENSIONS SHOWN ARE BASED ON THE ACTUAL SOLAR MODULE SELECTION. REFER TO STATE SPECIFIC CERTIFICATION LETTER FOR MORE INFORMATION ON THE WEIGHT LIMITS.
- EAST/WEST BEAM SPACING IS BASED ON A COMBINATION OF CLAMPING AND SHIMMABLE PILES AND TRIM PILES - 60 CELL SOLAR MODULES, FINE TUNE ADJUSTMENTS IN THE EAST/WEST BEAM TO TOP CHORD CHANNEL CONNECTIONS ARE REQUIRED TO CORRECT FOR VARIATION IN FINISHED GRADE.

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- EAST/WEST BEAM SPACING IS BASED ON A COMBINATION OF CLAMPING AND SHIMMABLE PILES AND TRIM PILES - 72 CELL SOLAR MODULES, FINE TUNE ADJUSTMENTS IN THE EAST/WEST BEAM TO TOP CHORD CHANNEL CONNECTIONS ARE REQUIRED TO CORRECT FOR VARIATION IN FINISHED GRADE.

DATE	REVISION	DESCRIPTION
10/17/19	1	ISSUE FOR PERMITS
11/14/19	2	REVISED PERMITS
01/22/20	3	REVISED PERMITS
02/12/20	4	REVISED PERMITS
03/10/20	5	REVISED PERMITS
03/10/20	6	REVISED PERMITS

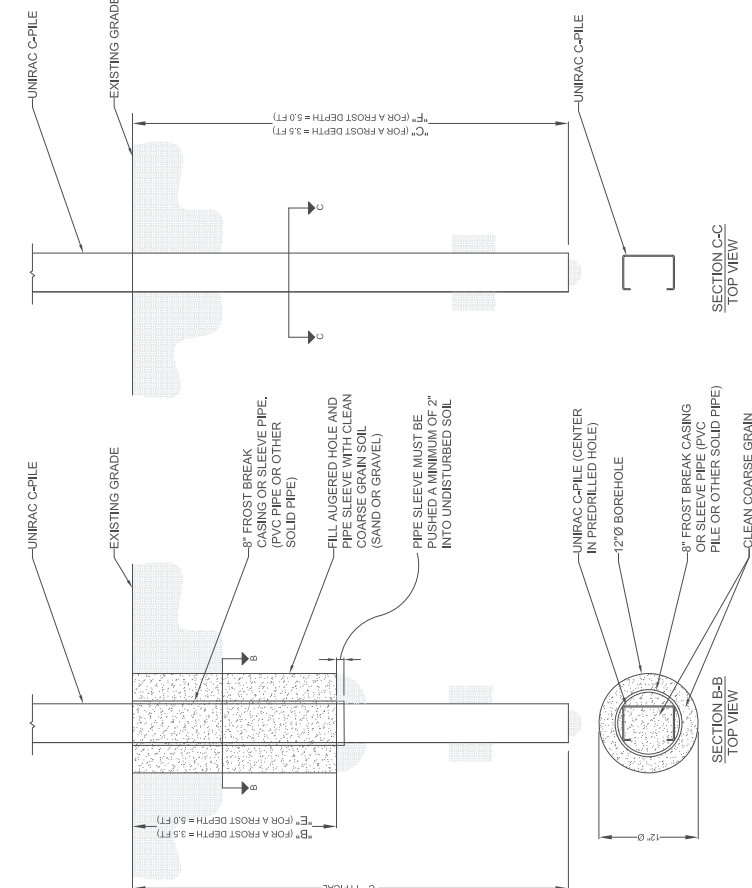
ENGINEER/CONSULTANT:
 Design Optimization Technologies
 424 Jefferson Street
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PROFESSIONAL SEAL
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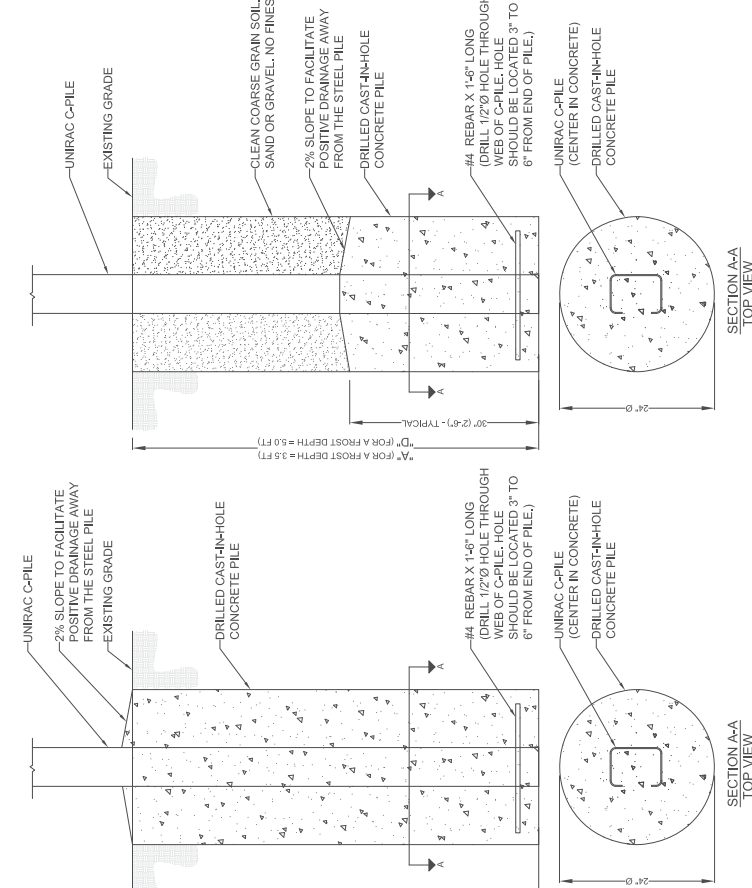
UNIRAC
 1411 Broadway Boulevard NE
 Albuquerque, New Mexico 87102
 Phone: (505) 242-4111
 Fax: (505) 242-4112
 www.unirac.com

PROJECT NUMBER:	DATE:
UNIRAC PROJECT NUMBER:	12-2020
DRAWING SHEET NUMBER:	12-2020
DRAWING SHEET TITLE:	FOUNDATION AND FOUNDATION DETAILS
SCALE:	AS SHOWN
DATE:	12-2020
PROJECT NUMBER:	SD-400



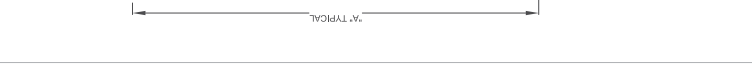
400
 DRILLED CAST-IN-HOLE
 CONCRETE PILE FOUNDATION
 (ALTERNATE OPTION)
 NOT TO SCALE

- FOUNDATION 400: DRILLED CAST-IN-HOLE CONCRETE PILE FOUNDATION
- FOUNDATION MUST BE EXCAVATED WITH LITTLE TO NO LOOSE MATERIAL IN THE BOTTOM.
 - IF THE FOUNDATION IS BELOW THE GROUND WATER LEVEL, THERE MUST BE A TEMPORARY CASING IN PLACE TO STABILIZE THE EXCAVATION.
 - THE PILE SHALL HAVE A #4 REBAR PLACED THROUGH THE BOTTOM OF THE PILE.
 - AROUND THE CASING MUST BE CENTERED IN THE HOLE WITH EQUAL AMOUNTS OF CONCRETE SHALL CONFORM TO THE CONCRETE SPECIFICATIONS LISTED ON SHEET DR-100.
 - CONCRETE DEPTH SHALL CONFORM TO THE DEPTHS LISTED IN THE TABLE ON THIS SHEET.
 - THE TOP OF THE CONCRETE MUST BE ABOVE GRADE.
 - UNIRAC C-PILES AS DEPICTED IN THE FIGURE.
 - THE BACKFILL MATERIAL MUST CONSIST OF MEDIUM TO COARSE SAND OR GRAVEL. NO CLAY OR ORGANICS MAY BE USED IN THE BACKFILL.



401
 DRILLED "PARTIAL" CAST-IN-HOLE
 CONCRETE PILE FOUNDATION
 (ALTERNATE OPTION)
 NOT TO SCALE

- FOUNDATION 401: DRILLED "PARTIAL" CAST-IN-HOLE CONCRETE PILE FOUNDATION
- FOUNDATION MUST BE EXCAVATED WITH LITTLE TO NO LOOSE MATERIAL IN THE BOTTOM.
 - IF THE FOUNDATION IS BELOW THE GROUND WATER LEVEL, THERE MUST BE A TEMPORARY CASING IN PLACE TO STABILIZE THE EXCAVATION.
 - AROUND THE CASING MUST BE CENTERED IN THE HOLE WITH EQUAL AMOUNTS OF CONCRETE SHALL CONFORM TO THE CONCRETE SPECIFICATIONS LISTED ON SHEET DR-100.
 - CONCRETE DEPTH SHALL CONFORM TO THE DEPTHS LISTED IN THE TABLE ON THIS SHEET.
 - THE TOP OF THE CONCRETE MUST BE BELOW THE DEPTH OF THE FROST ZONE.
 - THE CORE OF THE CONCRETE CAST-IN-DRILLED HOLE PILE WILL CONSIST OF UNIRAC C-PILES AS DEPICTED IN THE FIGURE.
 - THE BACKFILL MATERIAL MUST CONSIST OF MEDIUM TO COARSE SAND OR GRAVEL. NO CLAY OR ORGANICS MAY BE USED IN THE BACKFILL.



402
 PARTIAL DRIVEN
 PILE WITH CLEAN COARSE BACKFILL
 (ALTERNATE OPTION)
 NOT TO SCALE

- FOUNDATION 402: PARTIAL DRIVEN PILE WITH CLEAN COARSE BACKFILL
- EACH PILE FOUNDATION MUST BE SET WITH THE SAME DIMENSION SHOWN.
 - THE PILE MUST BE CENTERED IN THE HOLE WITH THE FROST BREAK CASING PLACED AROUND THE PILE PRIOR TO BACKFILLING THE EXCAVATION.
 - THE FROST BREAK CASING MUST NOT HAVE ANY CRACKS OR HOLES THAT MAY ALLOW WATER TO SEEP IN. THE CASING MUST BE SET A MINIMUM OF 2 INCHES INTO THE GROUND SURFACE.
 - THE BOTTOM OF THE EXCAVATION, THE CASING TOP MUST EXTEND TO THE GROUND SURFACE.
 - THE FILL MATERIAL MUST CONSIST OF MEDIUM TO COARSE SAND OR GRAVEL WITH LITTLE SILT CONTENT. NO CLAY OR ORGANICS MAY BE USED IN THE BACKFILL MATERIAL.
 - THE PILE MUST BE INSTALLED TO THE FULL DEPTH INDICATED. PILES NOT DRIVEN TO THE FULL DEPTH ARE CONSIDERED FAILED AND THE CONCRETE OPTION MUST BE UTILIZED.
 - IF THE CASING IS AFFECTED BY FROST HEAVE, THE CASING SHALL BE ATTEMPTED TO BE RE-EMBEDDED TO THE PROPER DEPTH IN ORDER TO PROTECT THE C-PILE FROM FUTURE FROST HEAVE.

403
 FULLY DRIVEN PILE
 (ALTERNATE OPTION)
 NOT TO SCALE

- FOUNDATION 403: FULLY DRIVEN PILE
- UNIRAC PILE FOUNDATIONS MAY ONLY BE USED IN SOILS THAT ARE NOT FROST SUSCEPTIBLE OR WHERE GROUND WATERS NOT WITHIN 12 FEET OF THE SURFACE UNLESS APPROVED BY A GEOTECHNICAL ENGINEER. FROST SUSCEPTIBLE SOILS CONSIST OF ANY SOIL THAT IS NOT MEDIUM TO COARSE GRAIN SAND OR GRAVEL. SOILS THAT CONTAIN SILT OR CLAY OR GROUNDWATER USED WITHIN 12 FEET OF THE SURFACE UNLESS APPROVED BY A GEOTECHNICAL ENGINEER.
 - PILES MUST BE INSTALLED TO THE FULL DEPTH. PILES NOT DRIVEN TO THE FULL DEPTH ARE CONSIDERED FAILED PILES AND A DIFFERENT FOUNDATION MUST BE UTILIZED.

NOTE: FOR PILE QUANTITY BASED ON TABLE SIZE. SEE TABLES ON THE STATE SPECIFIC CERTIFICATION LETTER. ALSO FOR PILE EMBEDMENT DEPTH AND TOTAL PILE LENGTH, SEE TABLES ON STATE SPECIFIC CERTIFICATION LETTER.

FOUNDATION TYPE	DETAIL NUMBER	FROST DEPTH = 3.5 FT OR LESS	FROST DEPTH = 5.0 FT
		"A"	"B"
FULL CAST IN-PLACE CONCRETE	400	8'-0"	8'-0"
CAST IN-PLACE CONCRETE	401	8'-0"	8'-0"
PARTIAL DRIVEN PILE WITH FROST BREAK	402	10'-0"	5'-0"
FULLY DRIVEN PILE	403	10'-0"	10'-0"

*SHALLOWER PILE EMBEDMENT MAY BE USED IF APPROVED BY A GEOTECHNICAL ENGINEER.

FOUNDATION TYPE	DETAIL NUMBER	FROST DEPTH = 3.5 FT OR LESS	FROST DEPTH = 5.0 FT
		"A"	"B"
FULL CAST IN-PLACE CONCRETE	400	6'-0"	6'-0"
CAST IN-PLACE CONCRETE	401	6'-0"	6'-0"
PARTIAL DRIVEN PILE WITH FROST BREAK	402	8'-0"	5'-0"
FULLY DRIVEN PILE	403	8'-0"	8'-0"

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PARTIAL DRIVEN PILE WITH FROST BREAK	402	10'-0"	5'-0"
FULLY DRIVEN PILE	403	10'-0"	10'-0"

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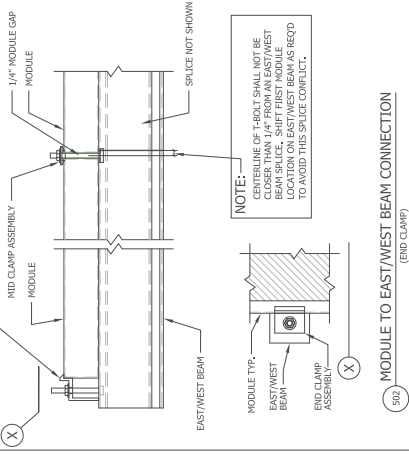
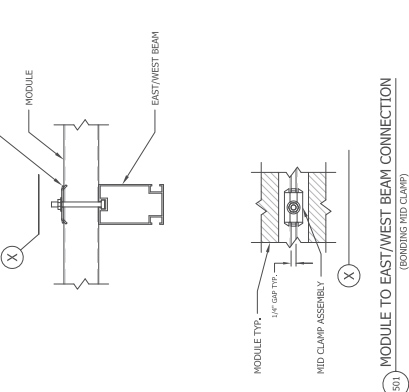
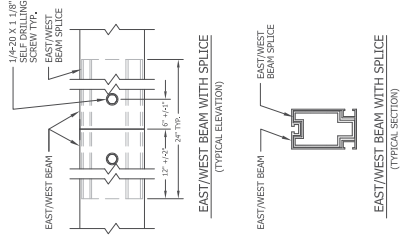
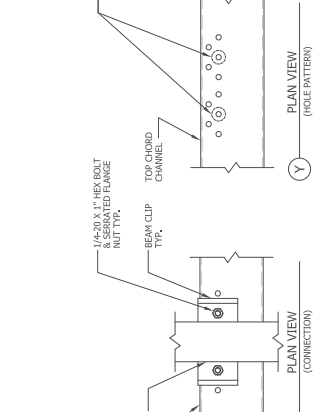
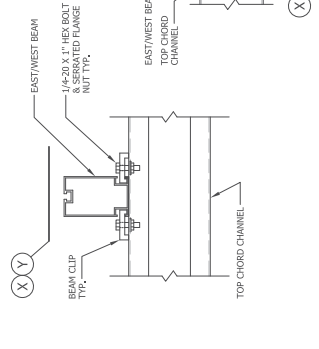
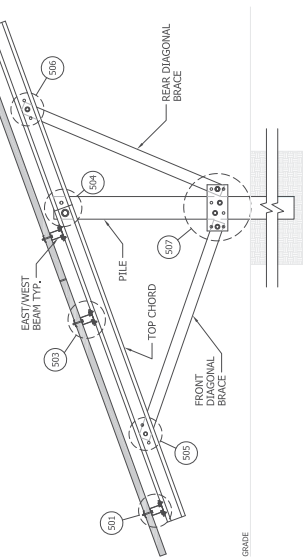
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FULLY DRIVEN PILE	403	10'-0"	10'-0"

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RACKING DETAIL NOTES:
 1. SEE INSTALLATION GUIDE FOR PILE CONNECTION ADJUSTMENT INSTRUCTIONS.
 2. SEE INSTALLATION GUIDE FOR INSTRUCTIONS TO SCALE.
 3. DETAILS SEEN ON THIS SHEET ARE NOT DRAWN TO SCALE.



DATE	REVISION	DESCRIPTION
10/17/19	1	ISSUE FOR RACKING CONNECTION
11/20/19	2	REVISED FOR RACKING CONNECTION
12/12/19	3	REVISED FOR RACKING CONNECTION
1/15/20	4	REVISED FOR RACKING CONNECTION
2/19/20	5	REVISED FOR RACKING CONNECTION
3/19/20	6	REVISED FOR RACKING CONNECTION

ENGINEERING CONSULTANT:
 Design Optimization Technologies
 424 Jefferson Street
 Houston, Texas 77002
 Phone: (281) 724-8872
 www.dotechengineering.com

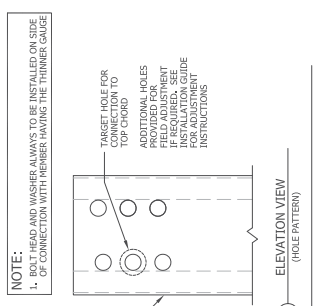
PROFESSIONAL SEAL
 SEE STATE SPECIFIC STAMPED & SIGNED GFT CERTIFICATION LETTER

UNIRAC'S DGET DISTRIBUTION GROUND FIXED TILT STRUCTURAL RACKING DRAWINGS

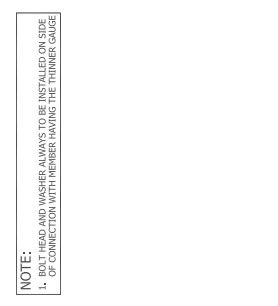
UNIRAC
 1411 Broadway Boulevard NE
 Albuquerque, New Mexico 87110
 Phone: (505) 242-4412
 Fax: (505) 242-4411
 www.unirac.com

PROJECT NUMBER: _____
DATE: _____
DESIGNED BY: _____
CHECKED BY: _____
SCALE: _____

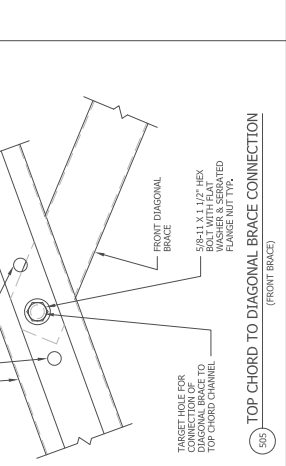
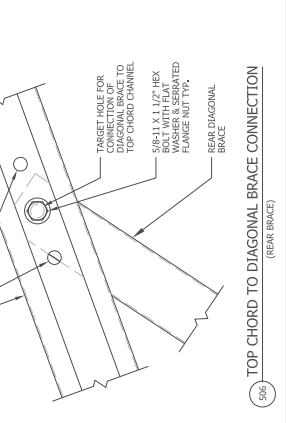
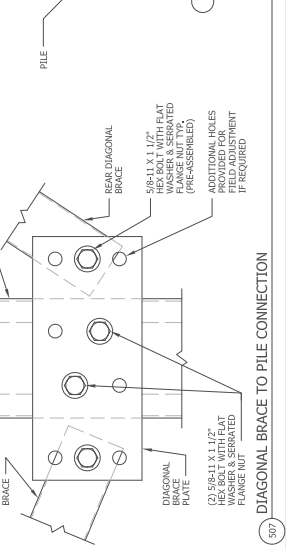
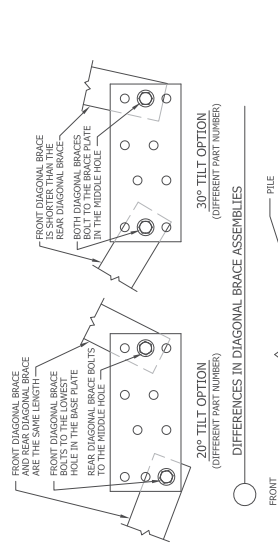
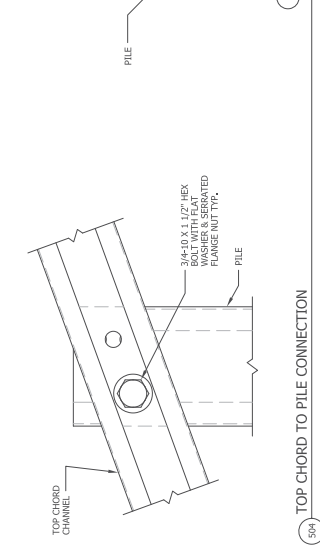
SHEET TITLE: RACKING DETAILS
SHEET NUMBER: SD-500
SHEET TOTAL: 6 of 6



NOTE:
 1. BOLT HEAD AND WASHER ALWAYS TO BE INSTALLED ON SIDE OF CONNECTION WITH MEMBER HAVING THE THINNER GAUGE.



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