

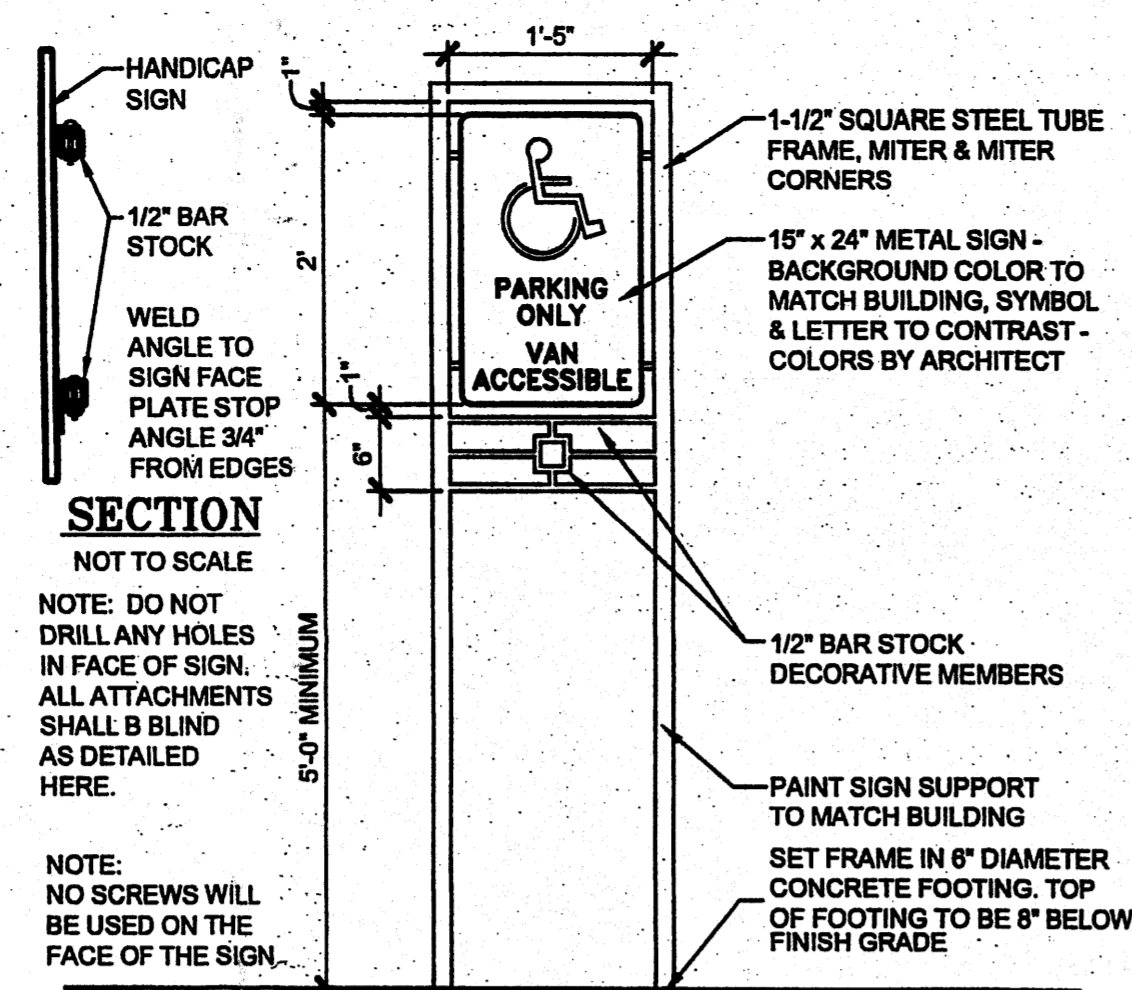
AMENDMENT #1 NOTES

#1: COOLING TOWER ACTUAL LOCATION IS APPROX 150' EAST OF LOCATION INDICATED

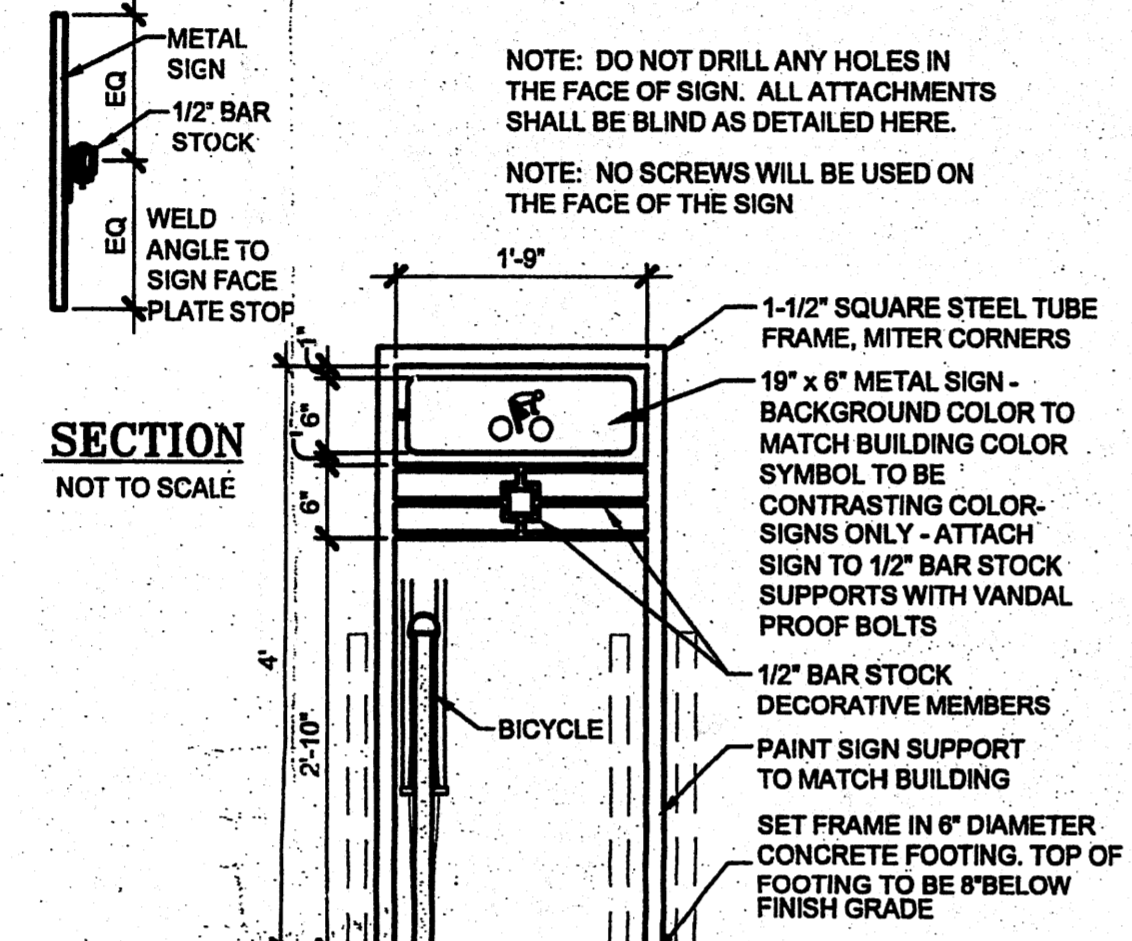
#2: NEW SOLAR COVERED PARKING STRUCTURES, CAP PART CANTILEVERED STRUCTURES WITH FOUNDATIONS IN LANDSCAPING.

ADMINISTRATIVE AMENDMENT
 FILE # 12-10067 PROJECT # 1005498
solar covered parking structures
 APPROVED BY *M. Manone* DATE *6/26/12*

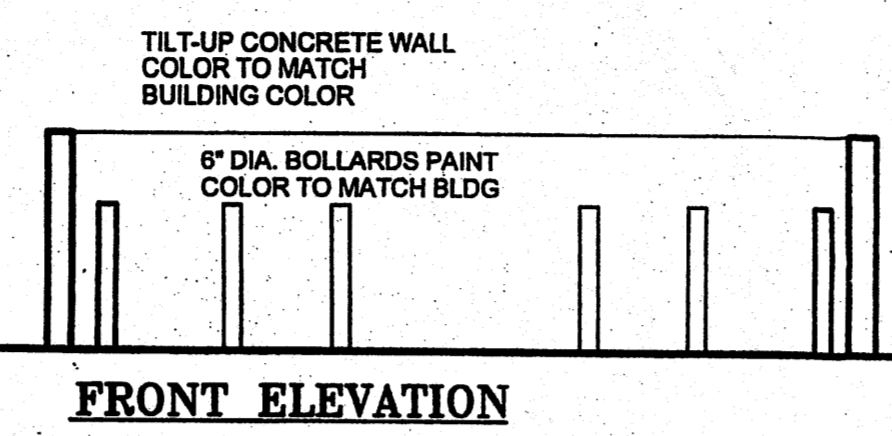
Web file 1005498



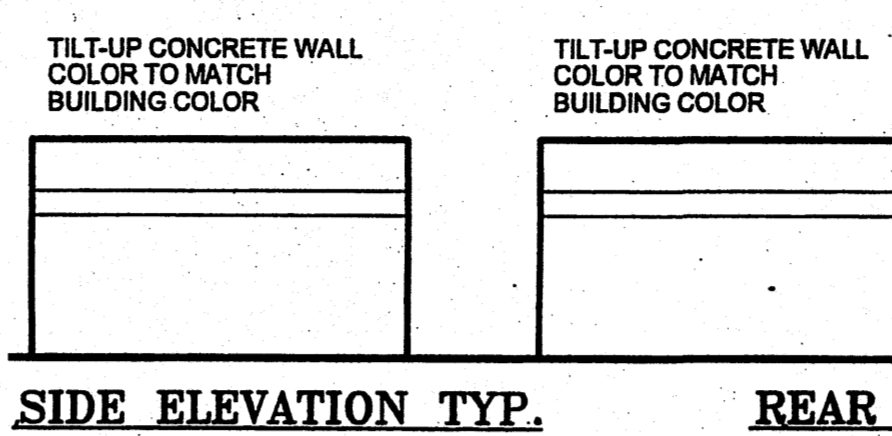
D2 HANDICAP PARKING SIGN
 SCALE: 3/4" = 1'-0"



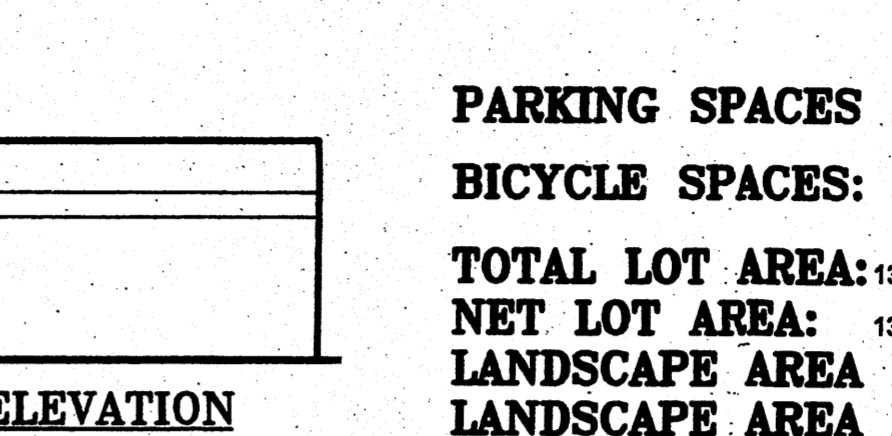
C2 BIKE RACK
 SCALE: 3/4" = 1'-0"



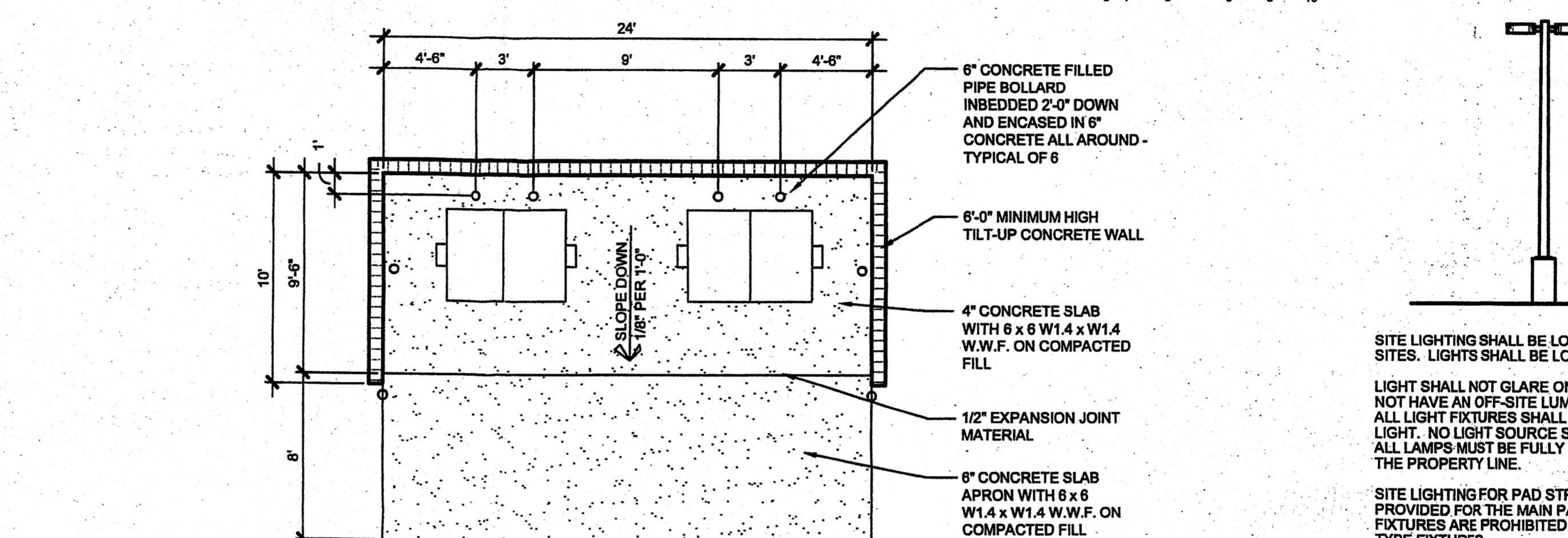
D3 FRONT ELEVATION
 SCALE: 3/16" = 1'-0"



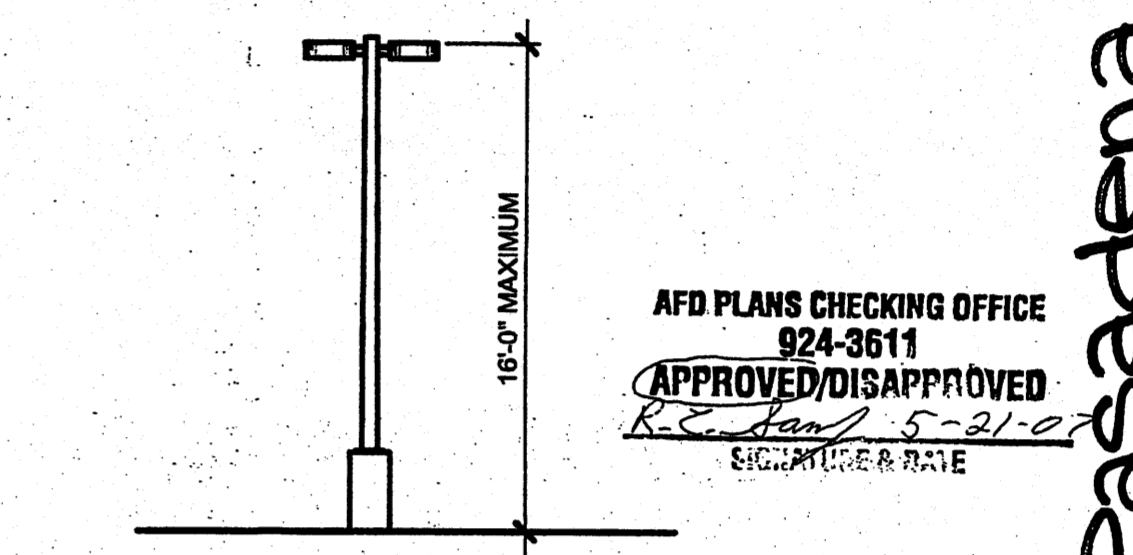
D3 SIDE ELEVATION TYP.
 SCALE: 3/16" = 1'-0"



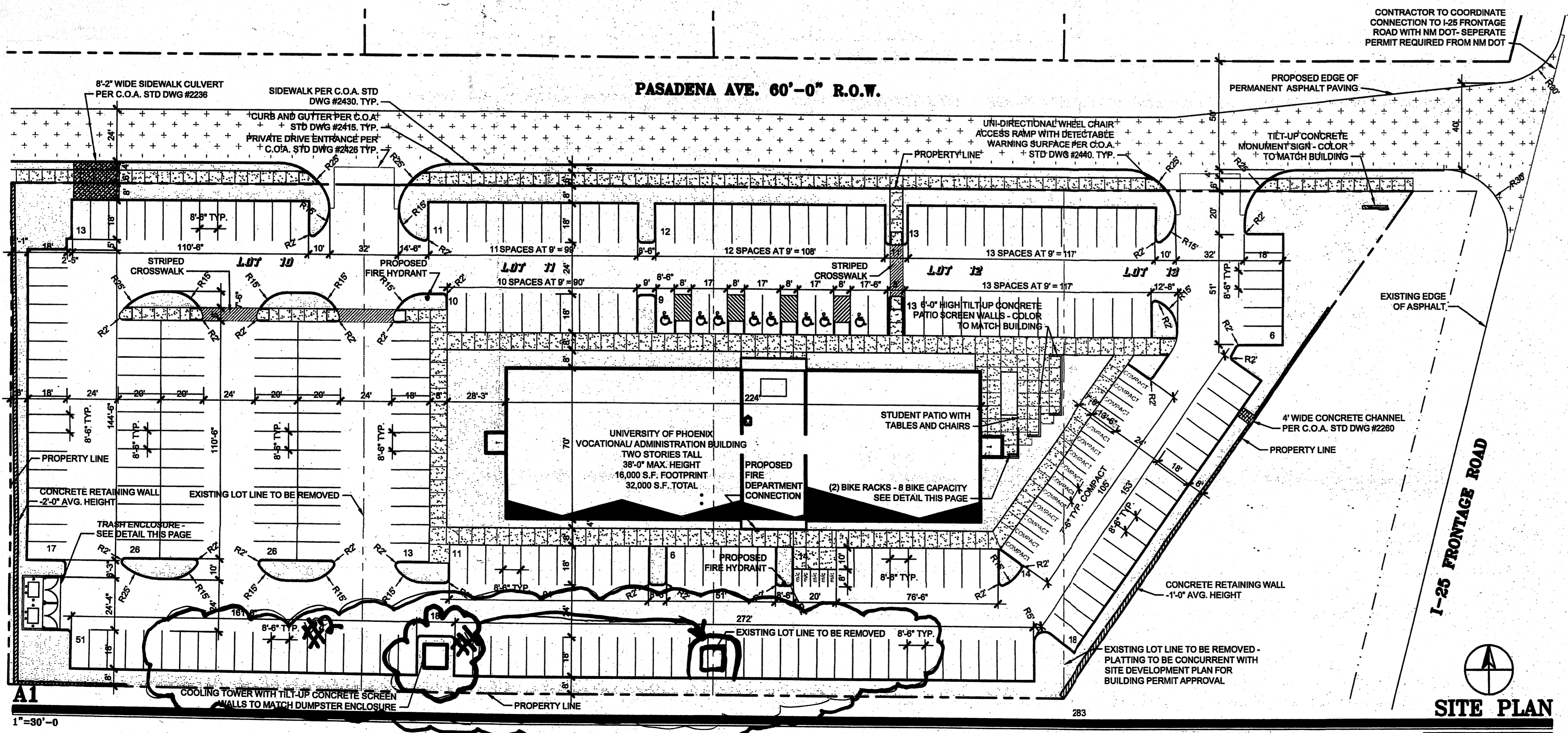
D3 REAR ELEVATION
 SCALE: 3/16" = 1'-0"



C3 TRASH ENCLOSURE
 SCALE: 3/16" = 1'-0"



C5 EXTERIOR POLE LIGHT
 SCALE: 1/8" = 1'-0"



A1 SITE PLAN
 SCALE: 1" = 30'-0"

BUILDING CRITERIA
 PROJECT: UNIVERSITY OF PHOENIX CLASSROOM ADMINISTRATION BUILDING
 OWNER: MART-NAIR LLC - A NEW MEXICO LIMITED LIABILITY COMPANY
 7451 PAN AMERICAN FREEWAY ALBUQUERQUE, NM 87109
 ARCHITECT: CLAUDIO VIGIL ARCHITECTS
 1801 RIO GRANDE BOULEVARD, N.W. ALBUQUERQUE, NEW MEXICO
 LEGAL DESCRIPTION: LOTS 10, 11, 12, 13 BLOCK 3, ALBUQUERQUE, NEW MEXICO
 ZONING CLASSIFICATION: IP - INDUSTRIAL PARK ZONE
 ZONING ATLAS MAP: 818
 PARKING ANALYSIS: ONE SPACE FOR EACH TWO SEATS. 14 ADULT VOCATIONAL ROOMS AT 20 SEATS EACH = 280 SEATS. 140 PARKING SPACES REQUIRED. 283 PARKING SPACES PROVIDED.
 PARKING SPACES SIZES: 8'-0" X 18'-0" WITH 2'-0" OVERHANG (FRONT) 8'-6" X 18'-0" WITH 2'-0" OVERHANG (GENERAL) 7'-0" X 13'-6" WITH 1'-6" OVERHANG (COMPACT)
 BICYCLE SPACES: ONE BICYCLE SPACE FOR EACH 80 STUDENTS. 280 STUDENTS = 8 BICYCLE SPACES REQUIRED. 8 SPACES PROVIDED.
 TOTAL LOT AREA: 135,135 S.F.
 NET LOT AREA: 135,135 S.F. - 16,000 S.F. = 119,135 S.F.
 LANDSCAPE AREA REQUIRED: 119,135 S.F. X 15% = 17,870 S.F.
 LANDSCAPE AREA PROVIDED: 23,237 S.F.

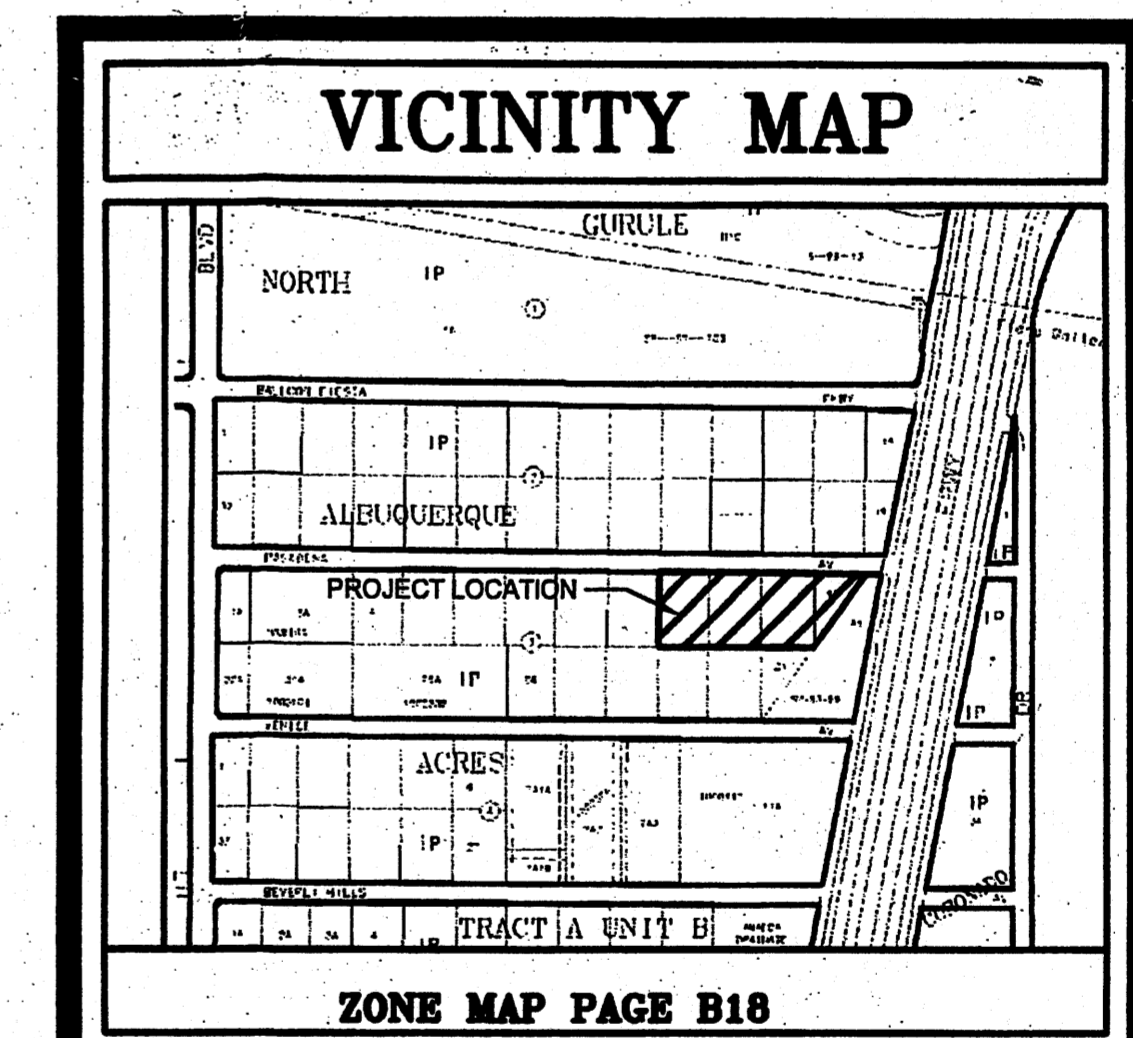
CLAUDIO VIGIL ARCHITECTS
 1801 Rio Grande Boulevard, N.W. Albuquerque, New Mexico
 Phone: (505) 842-1113 Fax: (505) 842-1330

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 All design concepts, details, specifications, plans, computer files, field data, notes and other documents and instruments prepared by Analysis P.C., D.B.A. Claudio Vigil Architects, as instruments of service shall remain the property of Analysis P.C., Claudio Vigil Architects, P.C. Architect shall retain all common law, statutory and other reserved rights, including the copyright thereto.

CONSULTANTS

PROFESSIONAL SEAL

UNIVERSITY OF PHOENIX
 ADULT EDUCATIONAL FACILITY
 BALLOON FIESTA AVE. ALBUQUERQUE, NEW MEXICO



SIGNATURE BLOCK

PROJECT NUMBER: 1005498
 APPLICATION CASE NUMBER: 07028-70006

IS AN INFRASTRUCTURE LIST REQUIRED? (X) YES () NO IF YES, THEN A SET OF APPROVED DBC PLANS WITH A WORK ORDER IS REQUIRED FOR ANY CONSTRUCTION WITHIN PUBLIC-RIGHT-OF-WAY OR FOR CONSTRUCTION OF PUBLIC IMPROVEMENTS

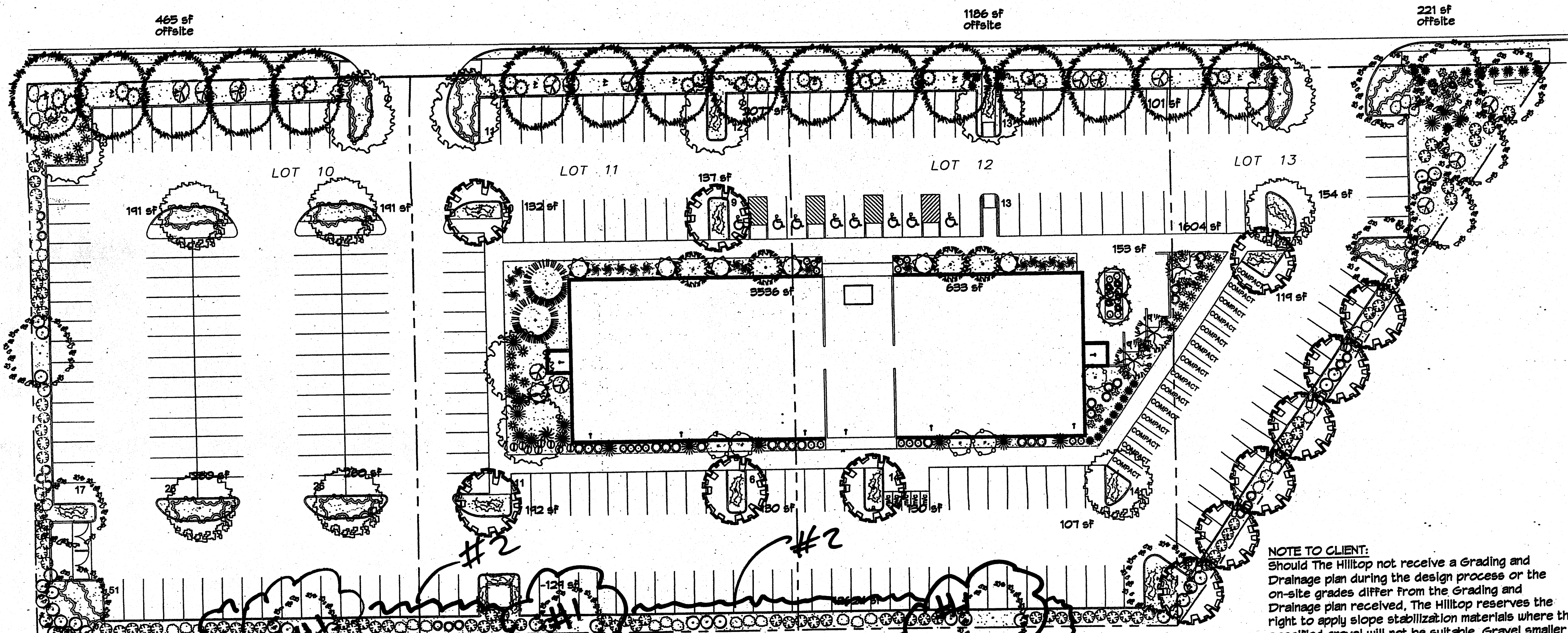
DRB SITE DEVELOPMENT PLAN SIGNOFF APPROVAL:

TRAFFIC ENGINEERING, TRANSPORTATION DIVISION	5-30-07	DATE
<i>John J. Huan</i>	5-30-07	DATE
WATER UTILITIES DEVELOPMENT	5-30-07	DATE
<i>David P. ...</i>	5-30-07	DATE
PARKS & RECREATION DEPARTMENT	8/16/07	DATE
<i>Bradley S. Bimba</i>	8/16/07	DATE
CITY ENGINEER, ENGINEERING DIVISION / AMAPCA		
ENVIRONMENTAL HEALTH DEPARTMENT (conditional)		
<i>Joe White</i>	5-21-07	DATE
SOLID WASTE MANAGEMENT	8/16/07	DATE
<i>Brandon</i>	8/16/07	DATE
DRB CHAIRPERSON, PLANNING DEPARTMENT		

SHEET TITLE
SITE DEVELOPMENT PLAN FOR BUILDING PNT.

SHEET NUMBER
SDP-1

5100 Pasadena Ave. NW



- CHINESE PISTACHE (M) 8
Pistacia chinensis
2' Cal.
- BLACK LOCUST (M) 16
Robinia pseudoacacia
2' Cal.
- PURPLE LEAF PLUM (M) 12
Prunus cerasifera
2' Cal.
- COMMON HACKBERRY (M) 13
Celtis occidentalis
2' Cal.
- NETLEAF HACKBERRY (M) 6
Celtis reticulata
2' Cal.
- AUSTRIAN PINE (M) 2
Pinus nigra
6'-8'
- WASHINGTON HAWTHORN (M+) 4
Crataegus phaenopyrum
15 Gal.
- DESERT WILLOW (L) 2
Chilopsis linearis
15 Gal. 225sf
- NEW MEXICO OLIVE (L) 3
Forsythia neomexicana
15 Gal. 225 sf

- DESERT ACCENTS**
- BANANA YUCCA (L) 1
Yucca baccata
25 sf
 - RED YUCCA (L) 6
Hesperaloe parviflora
5 Gal. 9sf
 - FRICKLY FEAR (L) 3
Opuntia macrocentra
4 sf

- SHRUBS/ORNAMENTAL GRASSES**
- FIVE GAL.**
- BIRD OF PARADISE (L) 5
Caesalpinia gilliesii
5 Gal. 100sf
 - LITTLELEAF SUMAC (L+) 7
Rhus microphylla
5 Gal. 81sf
 - SAND PLUM (M) 27
Fernandesia americana
5 Gal. 36sf
 - APACHE PLUME (L) 37
Fallugia paradoxa
5 Gal. 36sf
 - ALKALI SACATON (L) 18
Sporobolus airoides
5 Gal. 16sf
- ONE GAL.**
- RUBBER RABBITBRUSH (L) 40
Chrysothamnus nauseosus
1 Gal. 25sf

- BEARGRASS (L+) 17
Nolina microcarpa
5 Gal. 36sf
- BLUE SOTOL (L) 1
Dasylirion wheeleri
5 Gal. 4sf
- PRAIRIE SAGE (L+) 42
Artemisia ludoviciana
1 Gal. 25sf
- SARBERRY (M) 38
Berberis spp.
1 Gal. 16sf
- BLUE LEADWORT (M) 21
Cerastostigma plumbaginoides
1 Gal. 16sf
- COMPACT NANDINA (M) 24
Nandina domestica
1 Gal. 4sf
- MEDIUM NATIVE GRASSES 3
INCLUDING BUT NOT LIMITED TO
SAND LOVEGRASS AND
LITTLE BLUESTEM
1 Gal. 4sf
- BLUE FESCUE (L) 18
Festuca caesia
1 Gal. 4sf
- SAND DROPSSEED (L) 24
Sporobolus cryptandrus
1 Gal. 4sf
- CRANBERRY COTONEASTER (L+) 16
Cotoneaster spiculatus
1 Gal. 81sf
- TRUMPET VINE (M) 14
Campsis radicans
1 Gal. 400sf
Unstaked-Groundcover

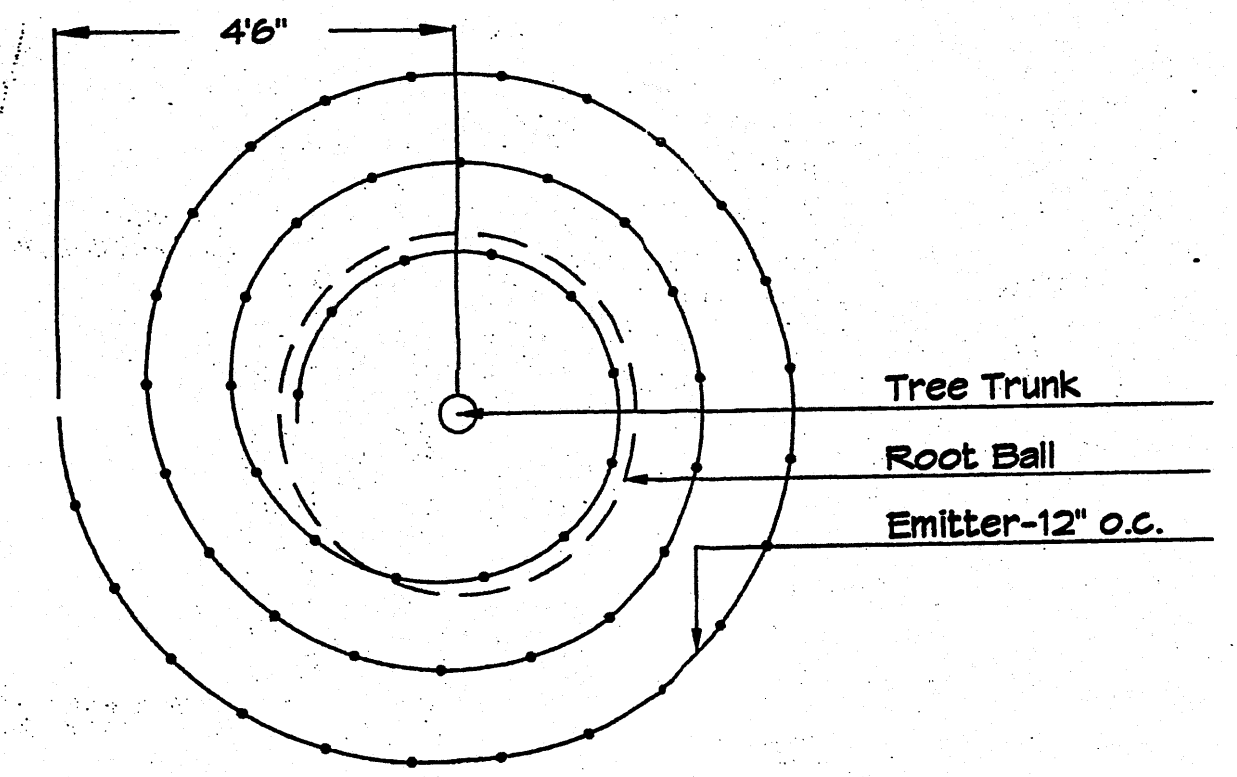
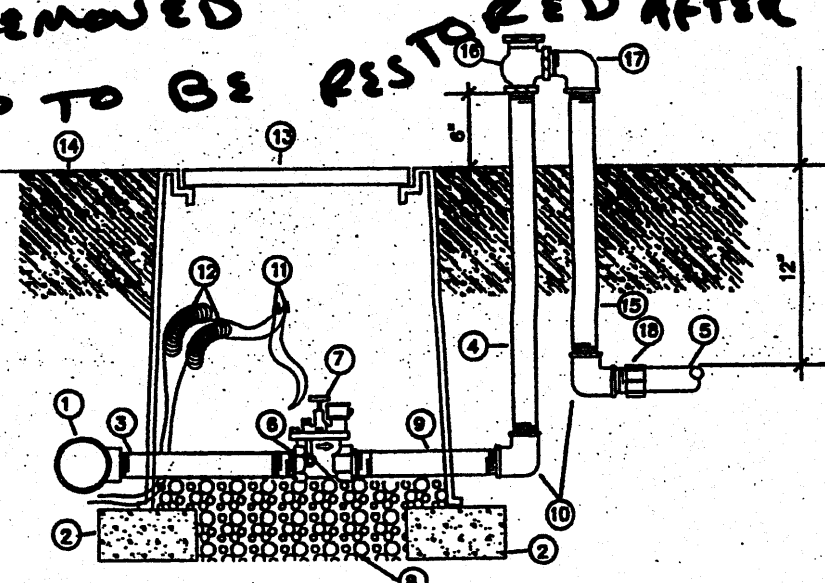
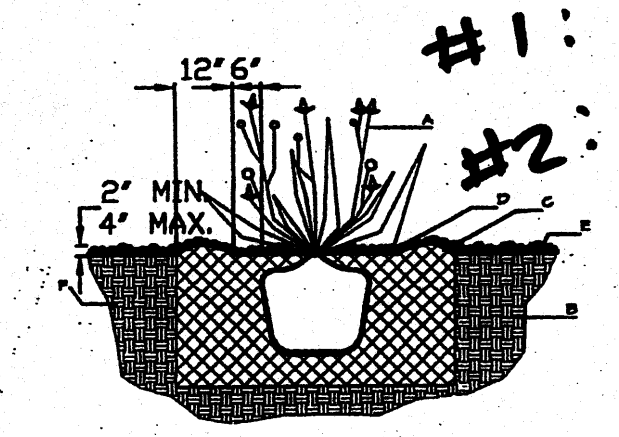
- GROUNDCOVERS**
- VIRGINIA CREEPER (M) 10
Parthenocissus quinquefolia
5 Gal. 240sf
Unstaked-groundcover

- HARDSCAPES**
- SANTA FE BROWN CRUSHER
FINES WITH FILTER FABRIC
TO A DEPTH OF 2"
 - OVERSIZED GRAVEL
& 11 BOULDERS

NOTE TO CLIENT:
Should The Hilltop not receive a Grading and Drainage plan during the design process or the on-site grades differ from the Grading and Drainage plan received, The Hilltop reserves the right to apply slope stabilization materials where the specified gravel will not be suitable. Gravel smaller than 2-4" cobblestone will not stay on a slope greater than 3:1. If the grades are greater than what was originally designed, we will request an in-field change-order to lay cobblestone or rip-rap, in lieu of the specified gravel, to stabilize the slope. All vegetative material shall remain per plan.

AMENDMENT #1 NOTES

- #1: 3 TREES TO BE REMOVED
- #2: LANDSCAPING AREAS TO BE RESTORED AFTER CONSTRUCTION

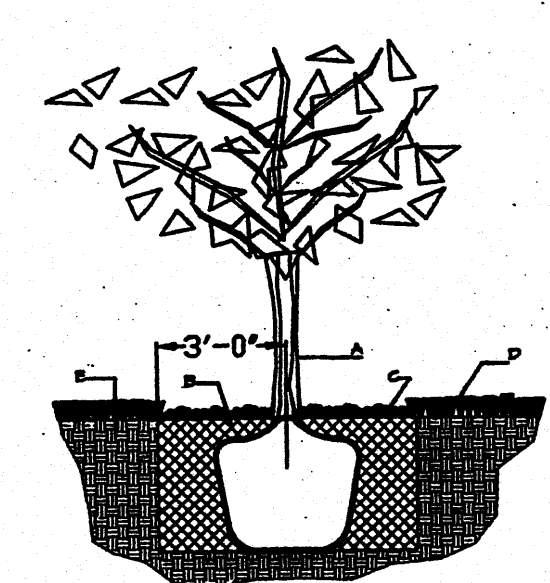


Netafim Spiral Detail

GENERAL NOTES:

- THE OUTSIDE DIAMETER OF THE WATER RETENTION BASIN SHALL BE TWICE THE DIAMETER OF THE SHRUB PLANTING FIT.

SHRUB PLANTING DETAIL NOTES



GENERAL NOTES:

- ROOTBALL SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT TREE FROM SETTLING.
- TOP OF ROOTBALL INDICATED LEVEL AT WHICH TREE WAS GROWN AND DUG; THIS REPRESENTS THE LEVEL AT WHICH THE TREE SHOULD BE INSTALLED; THAT LEVEL MAY BE EXCEEDED BY ONLY A ONE INCH LAYER OF SOIL.
- PRIOR TO BACKFILLING TREE, ALL WIRE, ROPE AND SYNTHETIC MATERIALS SHALL BE REMOVED FROM THE TREE AND THE PLANTING FIT.
- PRIOR TO BACKFILLING ALL BURLAP SHALL BE CUT AWAY EXCEPT FROM BOTTOM OF THE ROOTBALL.

CONSTRUCTION NOTES:

- SHRUB.
- BACKFILL WITH EXISTING SOIL.
- EARTH BERM AROUND WATER RETENTION BASIN.
- 4" DEPTH OF BARK MULCH.
- FINISH GRADE.
- UNDISTURBED SOIL.

CONSTRUCTION NOTES:

- TREE
- BACKFILL WITH EXISTING SOIL.
- 4" DEPTH OF BARK MULCH.
- TURF AT FINISH GRADE.
- UNDISTURBED SOIL.

TREE PLANTING DETAIL NOTES

LANDSCAPE NOTES:
Landscape maintenance shall be the responsibility of the Property Owner.

It is the intent of this plan to comply with the City of Albuquerque Water Conservation Landscaping and Water Waste Ordinance planting restriction approach. Approval of this plan does not constitute or imply exemption from water waste provisions of the Water Conservation Landscaping and Water Waste Ordinance.

Water management is the sole responsibility of the Property Owner. All landscaping will be in conformance with the City of Albuquerque Zoning Code, Street Tree Ordinance, Pollen Ordinance, and Water Conservation Landscaping and Water Waste Ordinance. In general, water conservative, environmentally sound landscape principles will be followed in design and installation.

Plant beds shall achieve 75% live ground cover at maturity.

Santa Fe Brown Crusher Fines over Filter Fabric shall be placed in all landscape areas which are not designated to receive native seed.

IRRIGATION NOTES:
Irrigation shall be a complete underground system with Trees to receive 1 Netafim spiral (50' length) with 3 loops at a final radius of 4.5' from tree trunk, pinned in place. Netafim shall have emitters 12" o.c. with a flow of .6 gph. Shrubs to receive (2) 1.0 GPH Drip Emitters. Drip and Bubbler systems to be tied to 1/2" poly pipe with flush caps at each end. Trees and shrubs shall be on separate valves.

Run time per each shrub drip valve will be approximately 15 minutes per day. Tree drip valve shall run 1.5 hours, 3 times per week. Run time will be adjusted according to the season.

Point of connection for Irrigation system is unknown at current time and will be coordinated in the field. Irrigation will be operated by automatic controller.

Location of controller to be field determined and power source for controller to be provided by others.

Irrigation maintenance shall be the responsibility of the Property Owner.

Water and Power source shall be the responsibility of the Developer/Builder.

PARKING LOT TREE REQUIREMENTS

Shade trees required under the City of Albuquerque Parking Lot Tree Ordinance are as follows:

1 Shade tree per 10 spaces
Required # 27 Provided # 27

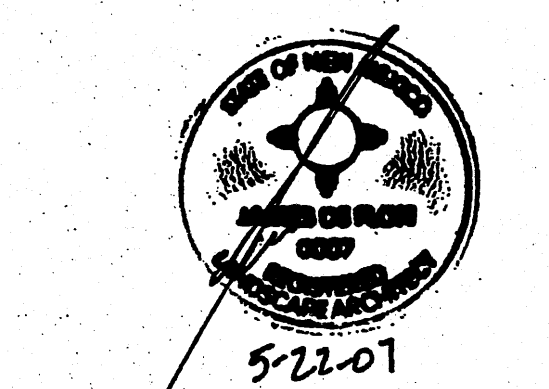
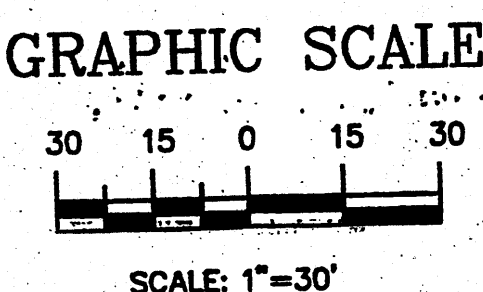
LANDSCAPE CALCULATIONS

TOTAL LOT AREA	133105	square feet
TOTAL BUILDINGS AREA	16000	square feet
OFFSITE AREA	1812	square feet
NET LOT AREA	119105	square feet
LANDSCAPE REQUIREMENT	15%	
TOTAL LANDSCAPE REQUIREMENT	17866	square feet

TOTAL BED PROVIDED	23602	square feet
GROUNDCOVER REQ.	75%	square feet
TOTAL GROUNDCOVER REQUIREMENT	17702	square feet
TOTAL GROUNDCOVER PROVIDED	20239 (86%)	square feet

TOTAL SOD AREA	0	square feet
(max. 20% of landscape required)		

TOTAL LANDSCAPE PROVIDED	23602 (20%)	square feet
--------------------------	-------------	-------------



The Hilltop
LANDSCAPE ARCHITECTS & CONTRACTORS
Cont. Lic. #26458
7909 Edith N.E.
Albuquerque, NM 87184
Ph. (505) 898-9690
Fax (505) 893-7737
cmj@hilltoplandscape.com

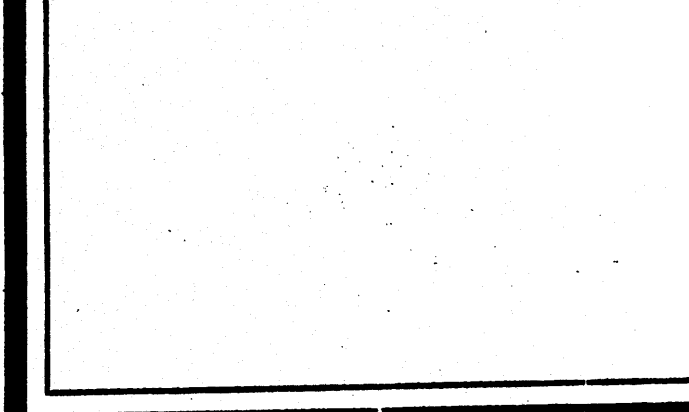
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1801 Rio Grande Boulevard, N.W.
Albuquerque, New Mexico
Phone: (505) 842-1113
Fax: (505) 842-1330

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CONSULTANT.



PROFESSIONAL SEAL



UNIVERSITY OF PHOENIX
ADULT EDUCATIONAL FACILITY
BALLOON FIESTA AVE.
ALBUQUERQUE, NEW MEXI

MARK	DATE	DESCRIPTION
1	5-22-07	SITE REVISION & COMME

PROJECT NUMBER:	26300
DRAWING FILE:	
DRAWN BY:	RMM
CHECK BY:	CJ
COPYRIGHT:	CLAUDIO VIGIL ARCHITECTS 2006
DATE:	4-27-07

SHEET TITLE	LANDSCAPE PLAN
SHEET NUMBER	L1

UNIVERSITY OF PHOENIX ALBUQUERQUE CAMPUS CARPORT PHOTOVOLTAIC SYSTEM

PROJECT CONTACTS:

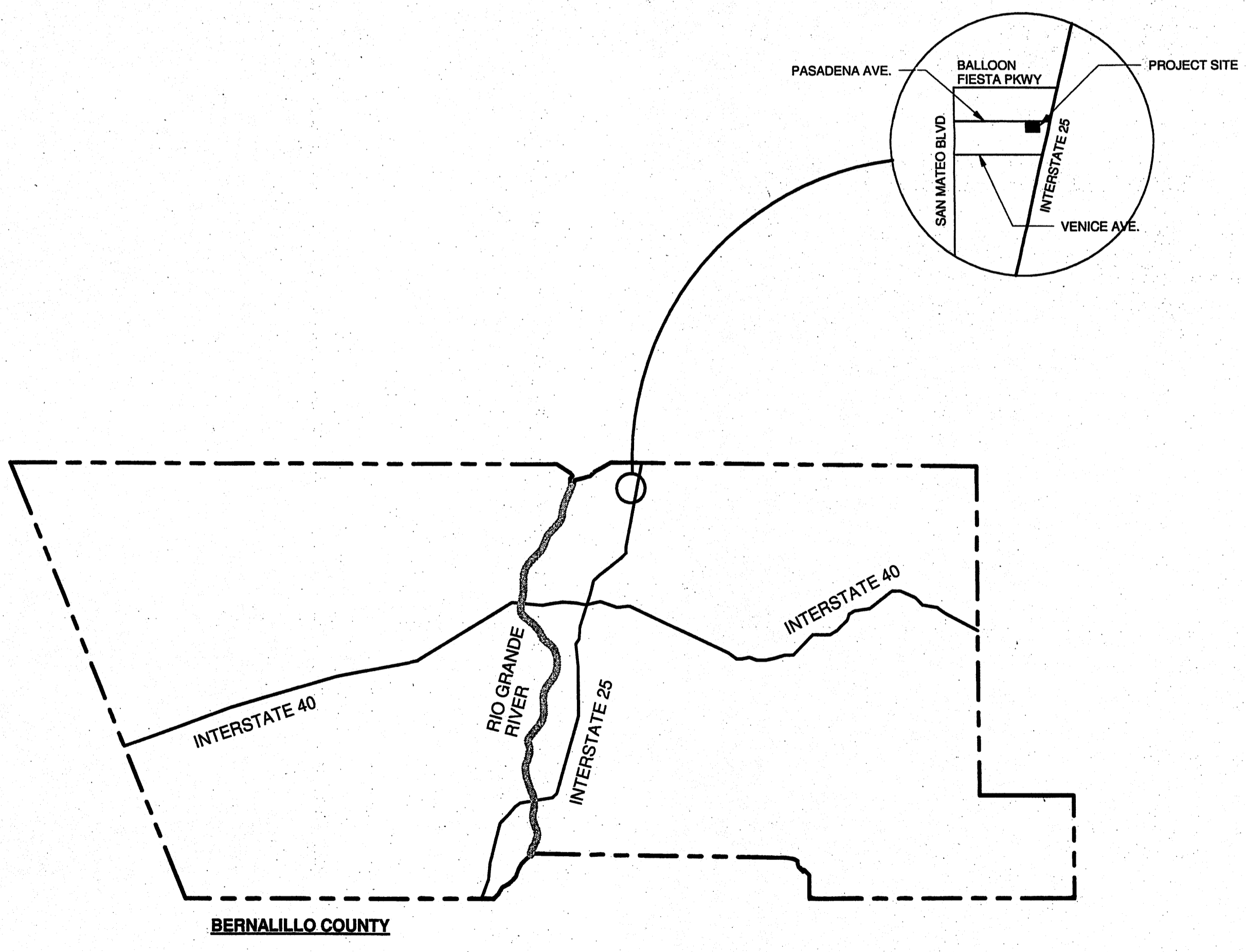
PROJECT MANAGER: PHOENIX SOLAR PETER CANDELARIA PHONE: 802.877.0749 2603 CAMINO RAMON SUITE 215 SAN RAMON CA 94583	STRUCTURAL: CARUSO TURLEY SCOTT RICHARD TURLEY PHONE: 480.774.1700 1215 WEST RIO SALADO PARKWAY SUITE 200 TEMPE AZ 85281
ELECTRICAL: BURNS & MCDONNELL MARTIN GONZALEZ PHONE: 480.337.6514 2600 NORTH CENTRAL AVENUE SUITE 1500 PHOENIX AZ 85004	

SHEET INDEX:

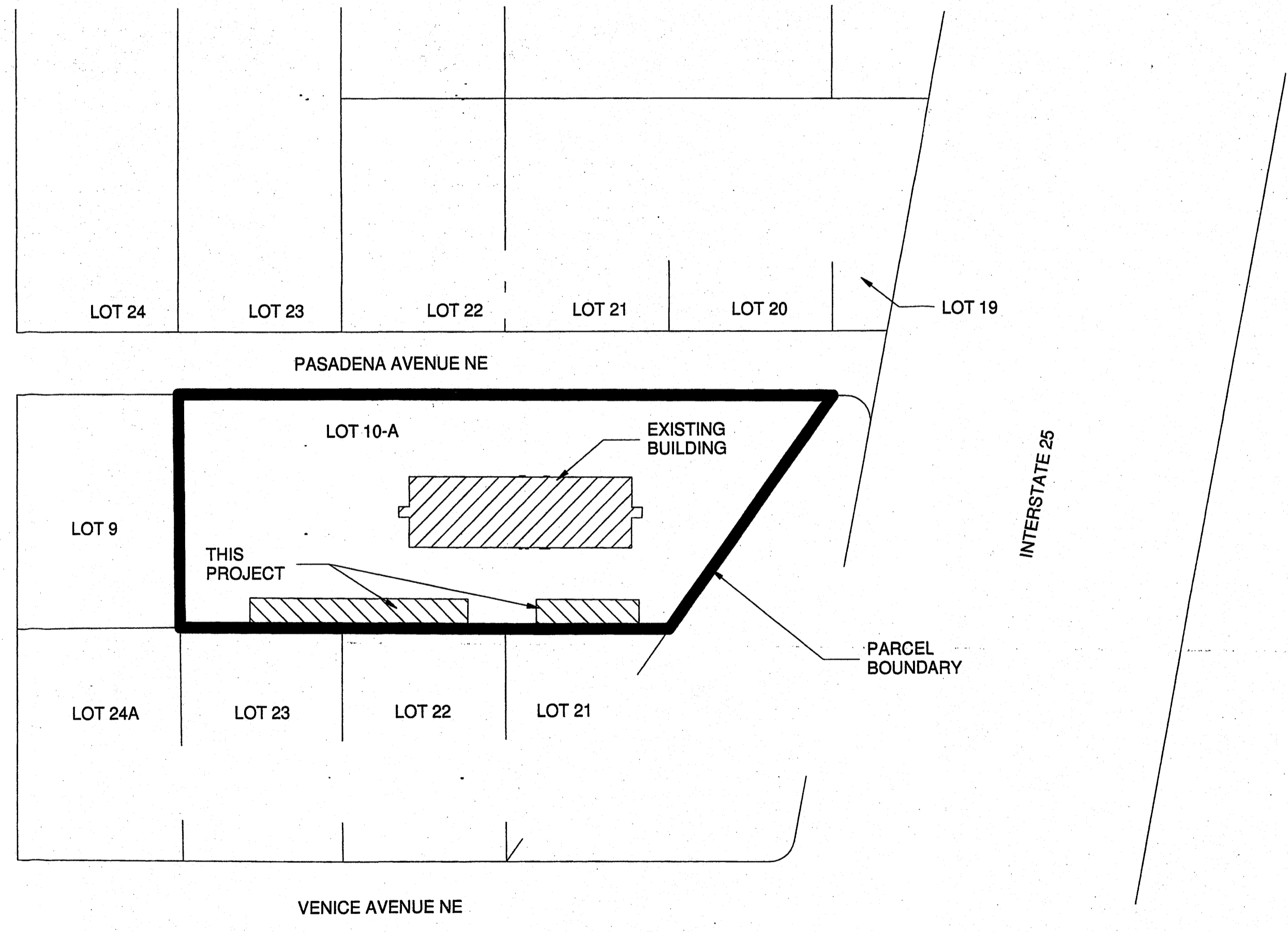
G 1.0 SP 1.0 EE 001 EE 002 EE 003 EE 004 EE 005 EE 006 EE 007 EE 008 EE 009 EE 010 EP 100 EP 101 EP 102 EP 200 EP 400 S1 S2 1 2	COVER SHEET ARRAY LAYOUT 1-LINE ELECTRICAL CONDUIT BLOCK DIAGRAM COMMUNICATIONS LABELS EQUIPMENT SCHEDULES 3-LINE ELECTRICAL 3-LINE ELECTRICAL 3-LINE ELECTRICAL 3-LINE ELECTRICAL ELECTRICAL SITE PLAN SITE DETAILS STRING LOCATIONS GROUNDING PLAN LIGHTING PLAN PLAN & SECTION GENERAL NOTES & DETAILS COLUMNS BEAMS
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PROJECT DETAILS:

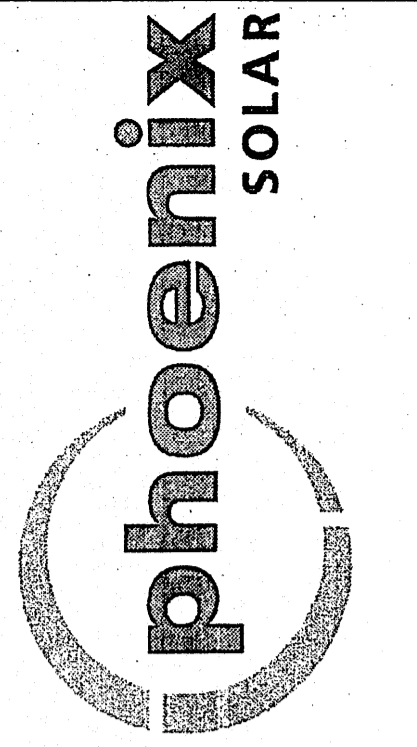
SYSTEM SIZE (kWp dc): MODULE TYPE: MODULE WATTAGE: MODULE DIMENSIONS (m x in): TOTAL NO. OF MODULES: MODULE ORIENTATION: CARPORT TILT ANGLE (degrees): NUMBER OF STRINGS: STRING SIZE: ARRAY AZIMUTH (degrees): INVERTER TYPE:	110.88 CRYSTALLINE 280 39.1 x 77 396 4-UP PORTRAIT 15 36 11 MODULES 180 SMA SB8000-US SMA SB7000-US SMA SB5000-US
TOTAL NO. OF INVERTERS:	13



VICINITY MAP: (NTS)



PARCEL MAP: (NTS)



No.	Description	Date
1	INVERTERS ADDED	20/2/2012

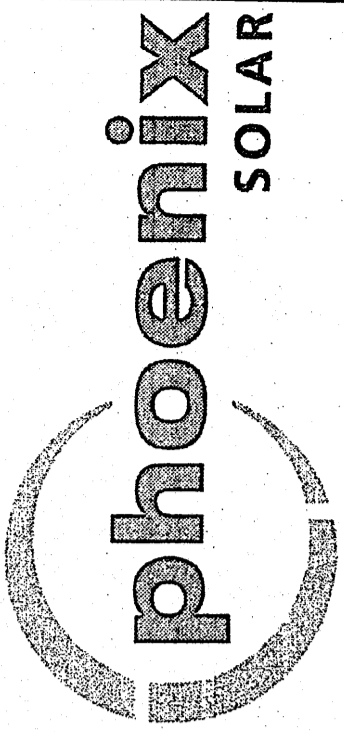
**UNIVERSITY OF PHOENIX
ALBUQUERQUE CAMPUS**
5700 PASADENA AVENUE NE
ALBUQUERQUE NM 87113

Project Number	10148
Drawn by	EA
Checked by	NDV

Date: 20 FEB 2012

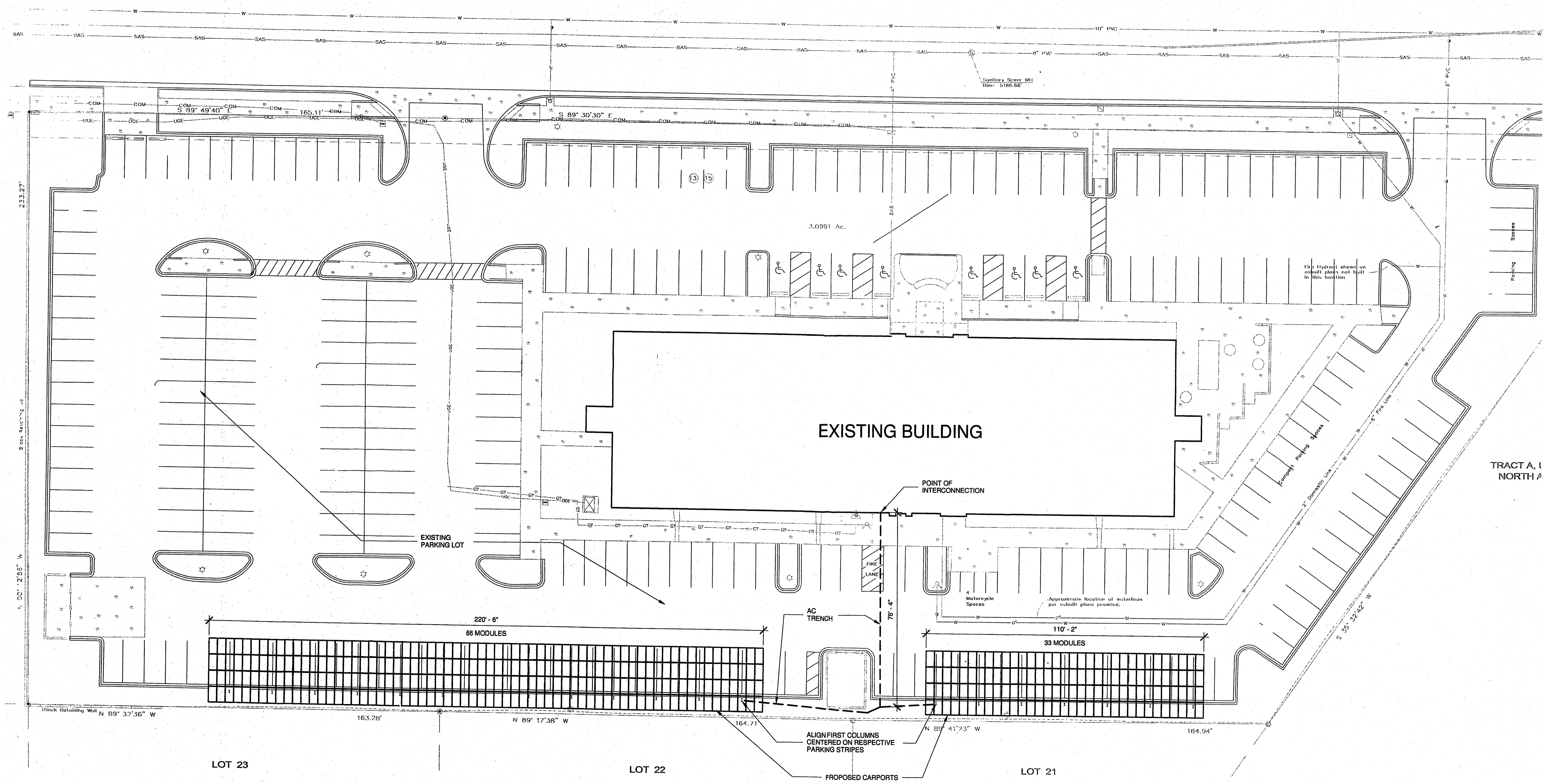
Sheet name: COVER SHEET

Sheet number: **G 1.0**



ARRAY DETAILS:

SYSTEM SIZE (kWp dc): 110.88
 MODULE TYPE: CRYSTALLINE
 MODULE WATTAGE: 280
 MODULE DIMENSIONS (in x in): 33.1 x 77
 TOTAL NO. OF MODULES: 398
 MODULE ORIENTATION: 4-UP PORTRAIT
 CARPORT TILT ANGLE (degrees): 15
 NUMBER OF STRINGS: 38
 STRING SIZE: 11 MODULES
 ARRAY AZIMUTH (degrees): 180
 INVERTER TYPE(S): SMA SB8000-US
 SMA SB7000-US
 SMA SB5000-US
 TOTAL NO. OF INVERTERS: 13



① OVERALL ARRAY
 1" = 20'-0"

No.	Description	Date
1	INVERTERS ADDED	20120519

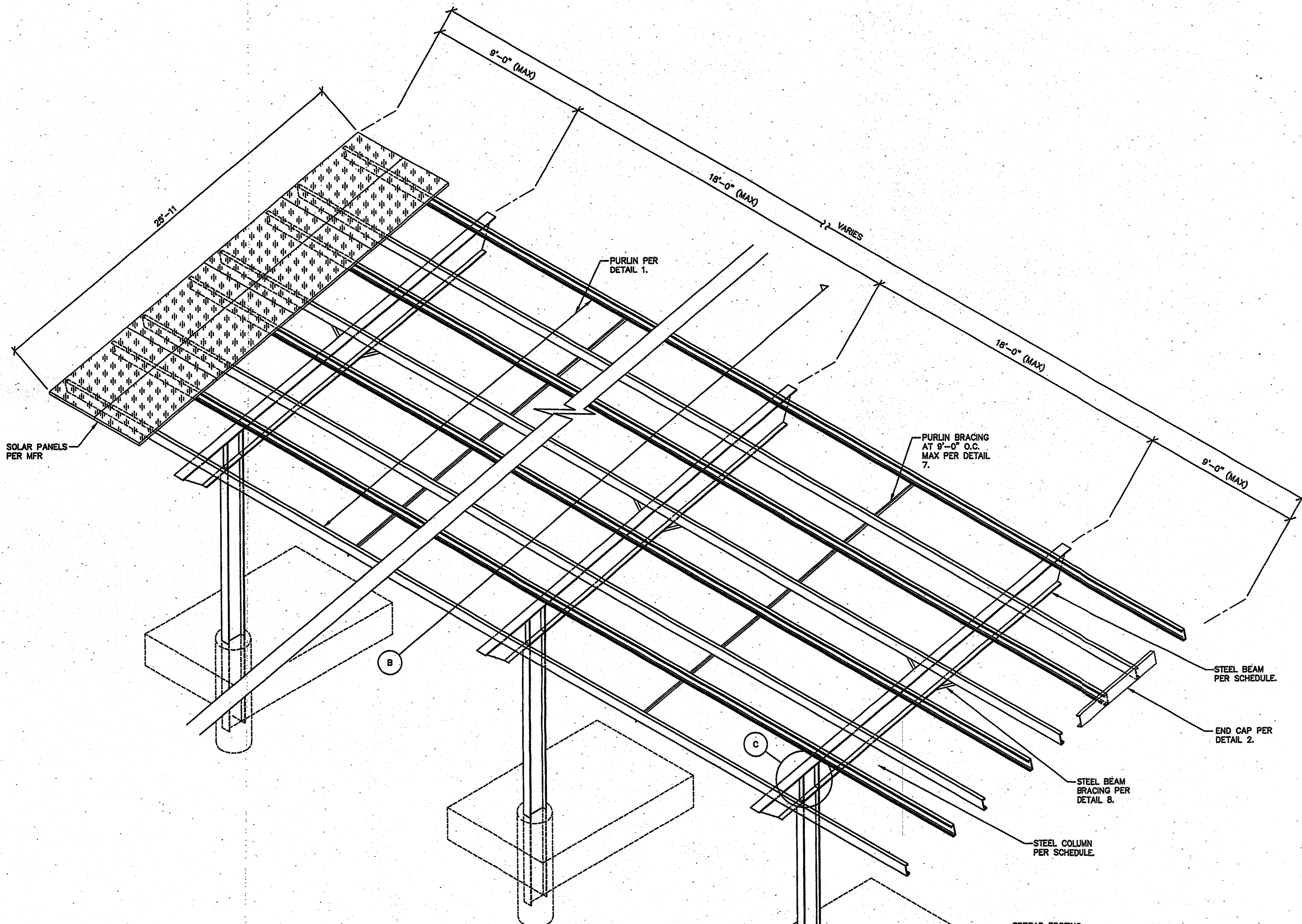
**UNIVERSITY OF PHOENIX
 ALBUQUERQUE CAMPUS**
 5700 PASADENA AVENUE NE
 ALBUQUERQUE NM 87113

Project Number	10148
Drawn by	EA
Checked by	NDV

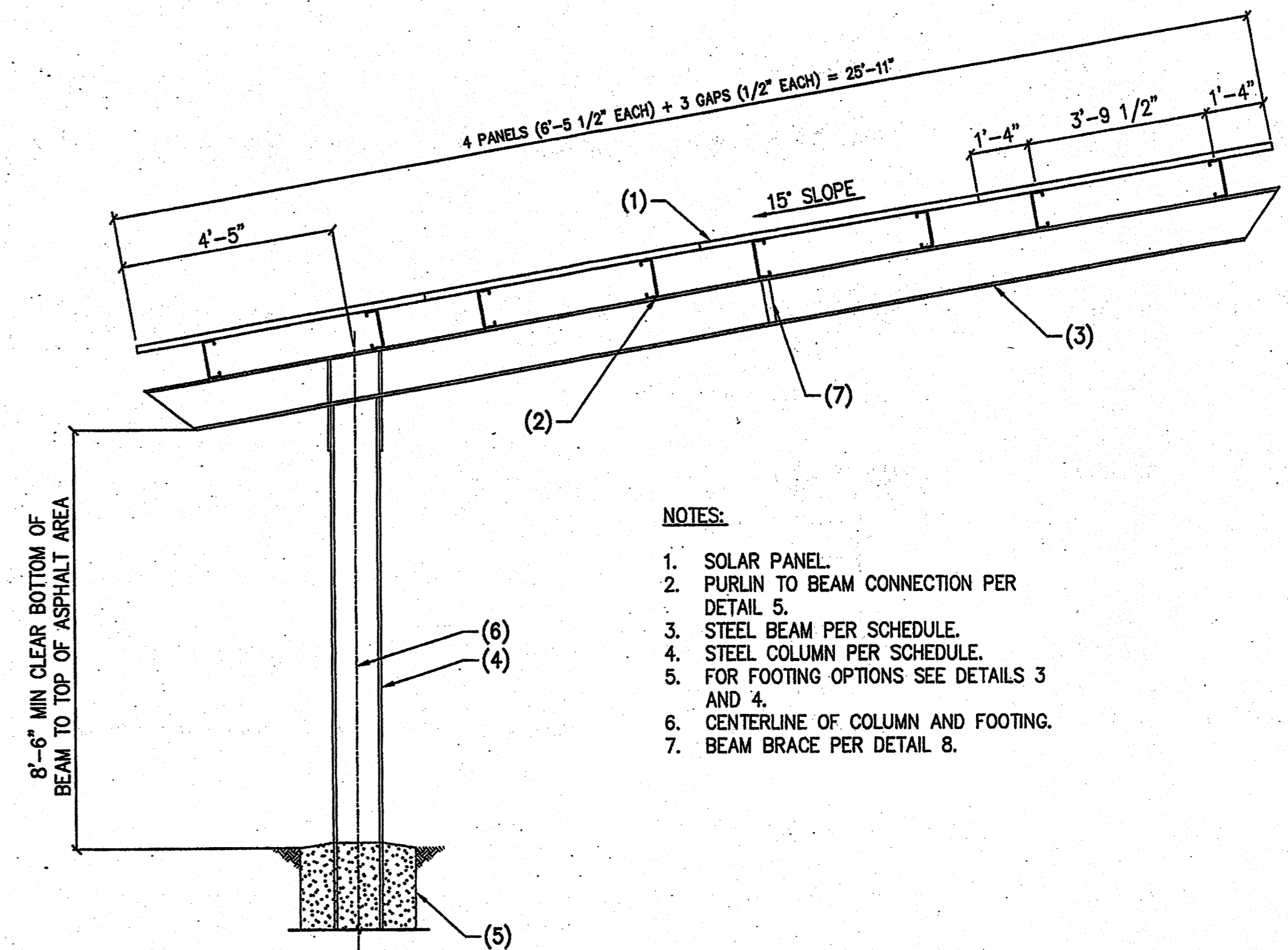
Date: 20 FEB 2012

Sheet name: OVERALL ARRAY LAYOUT

Sheet number: SP 1.0



A 4 PANEL ISOMETRIC PLAN
NO SCALE



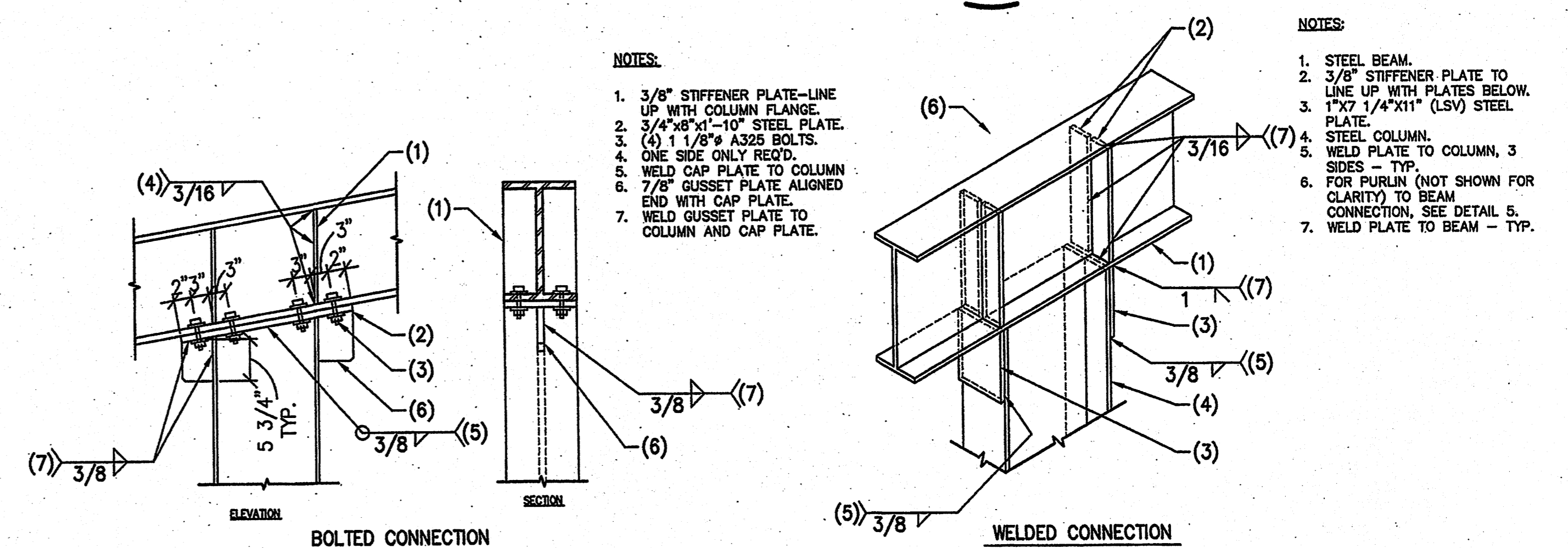
NOTES:

1. SOLAR PANEL.
2. PURLIN TO BEAM CONNECTION PER DETAIL 5.
3. STEEL BEAM PER SCHEDULE.
4. STEEL COLUMN PER SCHEDULE.
5. FOR FOOTING OPTIONS SEE DETAILS 3 AND 4.
6. CENTERLINE OF COLUMN AND FOOTING.
7. BEAM BRACE PER DETAIL 8.

STRUCTURAL MEMBER SCHEDULE						
SOLAR CANOPY TYPE	STEEL BEAM SIZE (F _y =50 KSI)	STEEL COLUMN SIZE (F _y =50 KSI)	PURLIN SIZE	CAISSON DEPTH (24" DIA)	ALTERNATE SPREAD FOOTING SIZE	REMARKS
4 PANEL SEMI-CANT	W12x50	W12x45	PER DETAIL 1	13'-3"	18'-6" x 5'-0" x 24"	---

B 4 PANEL SEMI-CANTILEVERED SECTION
NO SCALE

NOTE:
FOR DETAILS SEE SHEET S2.

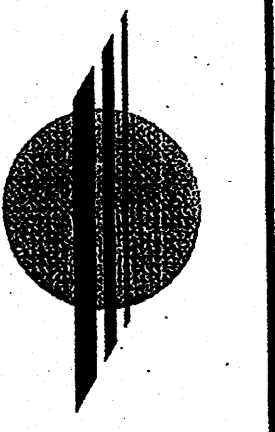


NOTES:

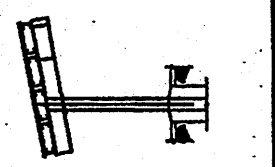
1. 3/8" STIFFENER PLATE—LINE UP WITH COLUMN FLANGE.
2. 3/4"x8"x1-10" STEEL PLATE.
3. 4 1 1/8" A325 BOLTS.
4. ONE SIDE ONLY REQD.
5. WELD CAP PLATE TO COLUMN.
6. 7/8" GUSSET PLATE ALIGNED END WITH CAP PLATE.
7. WELD GUSSET PLATE TO COLUMN AND CAP PLATE.

NOTES:

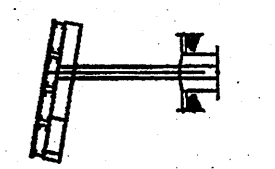
1. STEEL BEAM.
2. 3/8" STIFFENER PLATE TO LINE UP WITH PLATES BELOW.
3. 1"x7 1/4"x11" (LSV) STEEL PLATE.
4. STEEL COLUMN.
5. WELD PLATE TO COLUMN, 3 SIDES - TYP.
6. FOR PURLIN (NOT SHOWN FOR CLARITY) TO BEAM CONNECTION, SEE DETAIL 5.
7. WELD PLATE TO BEAM - TYP.



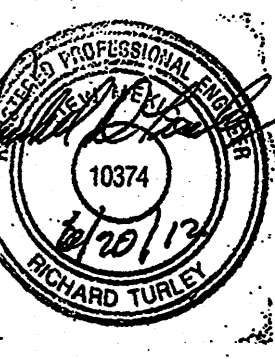
CARUSO TURLEY SCOTT INC.
consulting structural engineers
1215 W. Rio Salado Pkwy
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UNIVERSITY OF PHOENIX
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5700 PASADENA AVE. NORTHEAST
ALBUQUERQUE, NM 87113



RESOLUTE PERFORMANCE CONTRACTING
5014 E DESERT PARK LN
PHOENIX, AZ 8523



REVISIONS	
JOB NUMBER:	12-520
DRAWN:	ENGINEER:
DB	AFW
CHECKED:	SCALE:
PGS	AS NOTED
DATE:	5-29-12
SHEET:	S1

GENERAL STRUCTURAL NOTES

Applies unless noted otherwise on drawings

BUILDING CODE:

2009 EDITION OF THE INTERNATIONAL BUILDING CODE

LOADS:

ROOFS:
ROOF LIVE LOAD = 20 PSF (REDUCIBLE)
ROOF DEAD LOAD = ACTUAL WEIGHT OF MEMBER:
SOLAR PANELS = 3 PSF

C&C WIND LOAD = 19.9 PSF (TOWARD THE SURFACE).
C&C WIND LOAD = -23.3 PSF (AWAY FROM THE SURFACE).
MWFRS WIND LOAD = 19.9 PSF / 6.8 PSF (TOWARD THE SURFACE).
MWFRS WIND LOAD = -23.3 PSF / -6.6 PSF (AWAY FROM THE SURFACE).

LATERAL:

WIND:
3 SECOND WIND GUST = 90 MPH.
WIND IMPORTANCE FACTOR = 0.87.
EXPOSURE C.

SEISMIC:

SEISMIC IMPORTANCE FACTOR = 1.0.
S_s = .547
S₁ = .167
SDS = .540
SD1 = .261

SEISMIC DESIGN CATEGORY C.

BASIC SEISMIC-FORCE RESISTING SYSTEM = INVERTED PENDULUM-TYPE STRUCTURE.
RESPONSE MODIFICATION FACTOR (R) = 2
ANALYSIS PROCEDURE USED = SEISMIC DESIGN OF NON-BUILDING SYSTEMS NOT SIMILAR TO BUILDINGS PER SECTION 18.4 OF ASCE 7-05

FOUNDATIONS:

SOIL REPORT BY GEOTEST, INC; JOB NO. 1-70407. DATED MAY 18, 2007.

SPREAD FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL 2 FEET MINIMUM BELOW ADJACENT EXISTING GRADE. DESIGN SOIL BEARING VALUE = 3000 PSF. REFER TO REPORT FOR ADDITIONAL INFORMATION PRIOR TO COMMENCEMENT OF EARTHWORK. SOILS ENGINEER SHALL INSPECT FOUNDATION EXCAVATIONS PRIOR TO PLACEMENT OF CONCRETE.

ALLOWABLE LATERAL BEARING PRESSURE = 325 PSF/FT FOR DRILLED PIER FOOTINGS. THE ALLOWABLE LATERAL BEARING PRESSURE MAY BE MULTIPLIED BY 2.0 PER IBC SECTION 1804.3.1. THE DRILLED PIER FOOTINGS ARE DESIGNED AS CONSTRAINED (SECTION 1805.7.2.2, EQUATION 18-3) WHERE PLACED IN AN ASPHALT OR CONCRETE AREA (SOILS ENGINEER MUST CONFORM, IN WRITING, THAT ASPHALT PAVEMENT CAN BE CONSIDERED RIGID) AND AS UNCONSTRAINED (CZERNIAK) WHEN NOT PLACED IN CONCRETE OR ASPHALT AREAS (AS CONFIRMED BY THE SOILS ENGINEER). DRILLED PIERS BEAR A MINIMUM OF 4 FEET BELOW EXISTING GRADE.

CONCRETE:

SPECIFIED 28 DAY COMPRESSIVE STRENGTH F_c:

FOUNDATIONS _____ 2,500 PSI

GENERAL:

ALL CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE ACI. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED UNLESS NOTED OTHERWISE. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED. NO OTHER ADMIXTURES PERMITTED WITHOUT APPROVAL. FOR CONCRETE WITHOUT PLASTICIZER, MAXIMUM SLUMP 4 1/2" AT POINT OF PLACEMENT U.N.O. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL.

FOR REINFORCING INFORMATION, SEE REINFORCING SECTION OF G.S.N., PLANS, SCHEDULES AND DETAILS.

FLY ASH - SHALL BE LIMITED TO 25% OF TOTAL CEMENTITIOUS MATERIALS BY WEIGHT.

TEST DATA FOR EACH CONCRETE MIX SHALL BE SUBMITTED FOR REVIEW PER CHAPTER 5 OF ACI 318. REFERENCE FIGURE R5.3 FOR SUBMITTAL REQUIREMENTS AND OPTIONS. CONCRETE MIX DESIGNS THAT ARE SUBMITTED WITHOUT THE APPROPRIATE TEST DATA CANNOT BE REVIEWED.

IT IS ACCEPTABLE AND INTENDED TO USE EARTH CUTS FOR THE DRILLED PIER FOOTING AND SPREAD FOOTING. THE FOOTING DESIGNS INDICATED ON THIS SHEET DO NOT APPLY IF THE EARTH CUTS ARE UNSTABLE AND/OR DO NOT STAND ON THEIR OWN.

THE FOOTINGS INDICATED ON THIS SHEET DO NOT APPLY WHERE ORGANIC FILL MATERIALS EXIST.

CONCRETE SHALL BE ADEQUATELY VIBRATED AROUND THE EMBEDDED STEEL COLUMNS TO ENSURE THE CONCRETE HAS COMPLETELY SURROUNDED THE STEEL COLUMN AND TO ENSURE THE CONCRETE AT THE INSIDE OF THE STEEL COLUMN HAS RISEN TO THE LEVEL OF THE CONCRETE IN THE REMAINDER OF THE DRILLED PIER OR SPREAD FOOTING. CONCRETE SHALL SLOPE UP SLIGHTLY TOWARDS COLUMNS TO PREVENT WATER FROM PONDING AROUND COLUMNS.

IT IS ACCEPTABLE FOR CONCRETE TO FREE FALL INTO FOOTINGS.

REINFORCING:

ALL REINFORCING PER CRSI SPECIFICATIONS AND HANDBOOK. ASTM A615 (F_y = 60 KSI / GRADE 60) DEFORMED BARS FOR ALL BARS #5 AND LARGER. ASTM A615 (F_y = 40 KSI / GRADE 40) DEFORMED BARS FOR ALL BARS #4 AND SMALLER. WHERE SHOWN ON DRAWINGS ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. LATEST ACI CODE AND DETAILING MANUAL APPLY. CLEAR CONCRETE COVERAGES AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH _____ 3"
EXPOSED TO EARTH OR WEATHER _____ 2"
#5 OR LARGER _____ 2"
#5 AND SMALLER _____ 1 1/2"
ALL OTHER PER LATEST EDITION OF ACI 318

ALL REINFORCING SHALL BE CHAIRED TO ENSURE PROPER CLEARANCES. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE/CORROSION BY USE OF A PLASTIC OR CONCRETE CHAIR. DUCT-TAPE COVERED REINFORCING IS NOT AN ACCEPTABLE CHAIR.

ALL DIMENSIONS REFERENCED IN DRAWINGS AS "CLEAR" SHALL BE FROM FACE OF STRUCTURE TO EDGE OF REINFORCING, AND SHALL NOT BE LESS THAN STATED, NOR GREATER THAN "CLEAR" DIMENSION PLUS 3/8". ALL OTHERS SHALL BE PLUS OR MINUS 1/4" TYPICAL UNLESS NOTED OTHERWISE.

FIELD BENDING OR STRAIGHTENING OF DEFORMED BARS SHALL BE LIMITED TO #5 BARS AND SMALLER AND SHALL BE FIELD BENT OR STRAIGHTENED ONLY ONCE. ANY BEND SHALL BE LIMITED TO 90 DEGREES. IF FIELD BENDING OR STRAIGHTENING OF #6 BARS OR LARGER IS REQUIRED, OR IF A SECOND BEND IS REQUIRED FOR #5 BARS AND SMALLER, HEAT SHALL BE APPLIED FOR BENDING OR STRAIGHTENING. CONTRACTOR SHALL SUBMIT PROCEDURE FOR APPLYING HEAT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BENDING OR STRAIGHTENING BARS.

STRUCTURAL STEEL:

GENERAL:

ALL CONSTRUCTION PER LATEST AISC STEEL CONSTRUCTION MANUAL. ALL WIDE FLANGE STEEL SHALL BE ASTM A992 (F_y = 50 KSI). ALL PIPE STEEL SHALL BE ASTM A500 (F_y = 42 KSI) OR ASTM A53, TYPE E OR S, GRADE B (F_y = 35 KSI). ALL TUBE STEEL SHALL BE ASTM A500 (F_y = 46 KSI). ALL MISCELLANEOUS STEEL UNLESS NOTED OTHERWISE SHALL BE ASTM A36 (F_y = 36 KSI). IF CALLED OUT ON PLANS, F_y = 50 KSI PLATE STEEL SHALL BE ASTM A529 OR A572. THE TERMS PIPE AND ROUND HOLLOW STRUCTURAL SHAPE (RHSS) ARE USED SYNONYMOUSLY THROUGHOUT THESE DOCUMENTS ALONG WITH THE TERMS TUBE STEEL AND RECTANGULAR OR SQUARE HSS.

ALL STRUCTURAL ROLLED STEEL MEMBERS WITH F_y GREATER THAN 36 KSI ARE TO BE IDENTIFIED WITH AN ASTM SPECIFICATION MARK OR TAG PER IBC SEC. 2203.1.

HIGH STRENGTH BOLTS (A325N):

HIGH STRENGTH BOLTS SHALL BE ASTM A325N AND SHALL BE INSTALLED AS BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE. INSTALL WASHERS AND TIGHTEN "SNUG TIGHT" PER AISC SPECIFICATIONS. NO DIRECT TENSION INDICATOR TIGHTENING DEVICES OR ALTERNATE DESIGN FASTENERS ARE PERMITTED WITH "SNUG TIGHT" APPLICATIONS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. FOR ADDITIONAL INFORMATION, SEE ABOVE.

WELDING:

UNLESS NOTED OTHERWISE, ALL WELDS PER LATEST EDITION OF THE AWS STANDARDS. ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY. ALL WELDING DONE BY E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. FOR GRADE 60 REINFORCING BARS, USE E90 SERIES.

THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS; THE CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW.

ALL FULL (COMPLETE) PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY.

COLD FORMED STRUCTURAL STEEL FRAMING:

GENERAL:

ALL COLD FORMED STEEL COMPONENTS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE FABRICATED AND RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AISI.

FRAMING:

ALL STRUCTURAL STEEL FRAMING MATERIAL AND ITS ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBER".

ALL WELDING TO BE PERFORMED BY WELDERS HOLDING A VALID CERTIFICATE AND HAVING CURRENT EXPERIENCE IN LIGHT GAUGE STEEL. CERTIFICATES SHALL BE ISSUED BY AN ACCEPTED TESTING AGENCY. DO NOT NOTCH FLANGES OF MEMBERS WITHOUT EXPRESSED APPROVAL OF THE ENGINEER OF RECORD. ALL WELDING TO BE PERFORMED IN AN APPROVED FABRICATOR'S SHOP.

STRUCTURAL STEEL MEMBERS ARE FURNISHED TO A SPECIFIED MINIMUM F_y = 55,000 PSI. THE GRADE AND THE ASTM SPECIFICATION NUMBER OR OTHER SPECIFICATION DESIGNATION SHALL BE INDICATED BY PAINTING, DECAL, TAGGING OR OTHER SUITABLE MEANS ON EACH BUNDLE OF FABRICATED ELEMENTS. IT IS ACCEPTABLE TO USE THE F_y SHOWN ON THE MILL CERTIFICATION IN LIEU OF THE "ORDERED" F_y.

MATERIAL THICKNESS COMPARISON TABLE TO BE INSERTED HERE ON DWG SHEET. PLEASE DO NOT DELETE SPACERS IN WORD DOCUMENT.

MILS	GAGE NO.	MIN DELIVERED THICKNESS	DESIGN THICKNESS
12	30	0.0120"	0.0128"
14	29	0.0132"	0.0139"
16	28	0.0174"	0.0183"
33	20	0.0336"	0.0354"
43	18	0.0447"	0.0470"
54	16	0.0561"	0.0590"
68	14	0.0713"	0.0750"
97	12	0.0998"	0.1050"
118	10	0.1283"	0.1350"

GENERAL NOTES:

THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. EXCEPT WHERE NOTED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA. ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A REGISTERED ENGINEER RECOGNIZED BY THE BUILDING CODE JURISDICTION OF THIS PROJECT.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL ITEMS WITH THE APPROPRIATE TRADE DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS CHOSEN, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, APPROVALS AND THE COORDINATION OF THE WORK WITH ALL RELATED TRADES AND SUPPLIERS.

SPECIAL INSPECTION - STRUCTURAL ONLY:

SPECIAL INSPECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A STATE REGISTERED STRUCTURAL ENGINEER WHO IS FAMILIAR WITH THE STRUCTURAL DESIGN OF THIS PROJECT. THE SUPERVISING STRUCTURAL ENGINEER SHALL SEAL THE SPECIAL INSPECTION CERTIFICATE.

SPECIAL INSPECTION IS TO BE PROVIDED FOR THE ITEMS LISTED BELOW IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING JURISDICTION. "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE BUILDING JURISDICTION INSPECTIONS REQUIRED BY SECTION 109 OF THE INTERNATIONAL BUILDING CODE. SPECIAL INSPECTION IS REQUIRED PER CHAPTER 17 FOR THE FOLLOWING:

CONCRETE CONSTRUCTION:

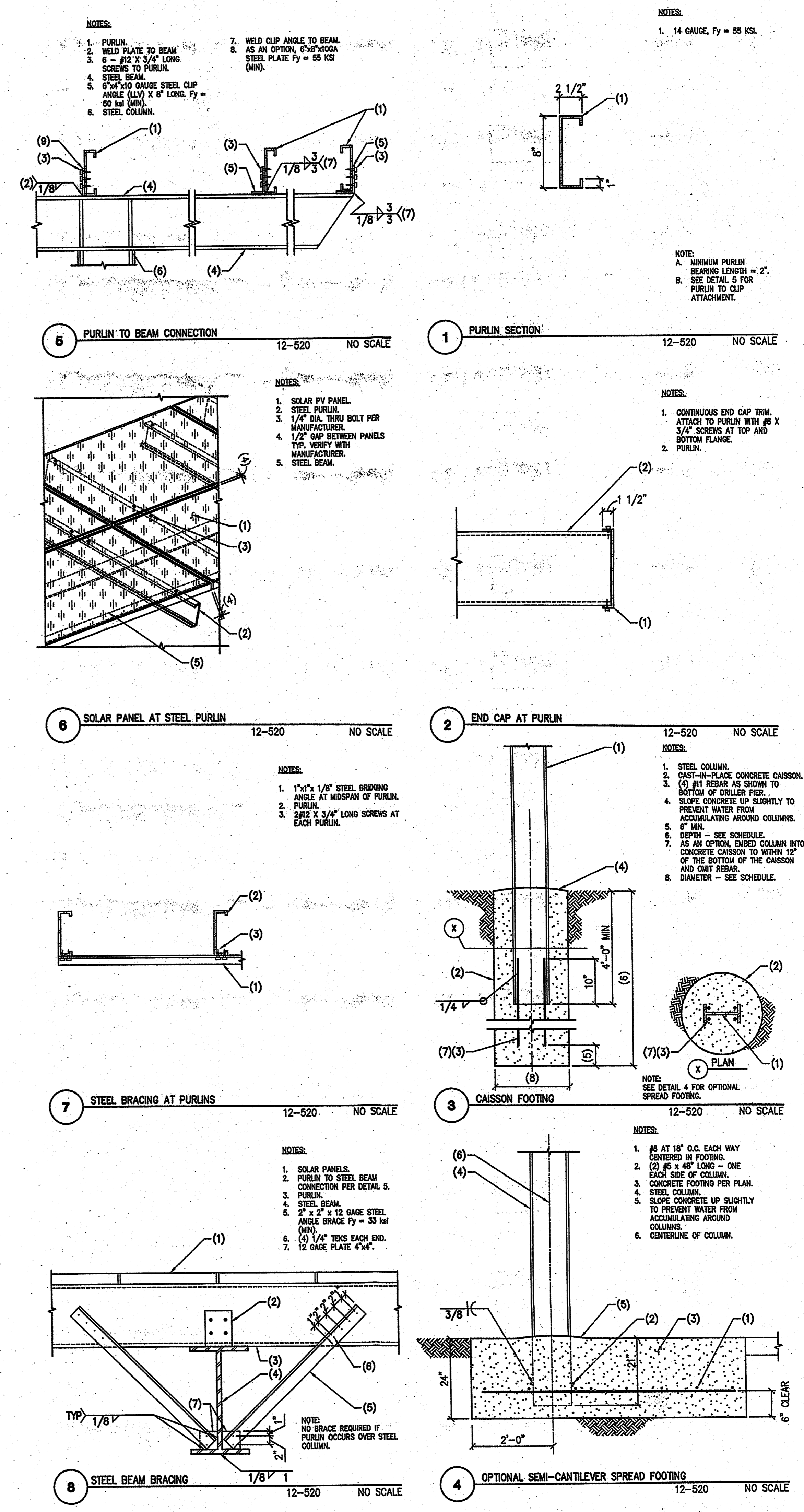
- CONCRETE:
 - DURING THE TAKING OF TEST SPECIMENS.
 - NO INSPECTION IS REQUIRED FOR THE PLACEMENT OF FOUNDATION CONCRETE. INSPECTION OF SPREAD FOOTING FOUNDATION REINFORCING IS REQUIRED PER "REINFORCING STEEL" SECTION BELOW.
- REINFORCING STEEL: INSPECTION OF IN-PLACE REINFORCING FOR CONFORMANCE PRIOR TO THE CLOSING OF FORMS OR THE DELIVERY OF CONCRETE TO THE JOBSITE FOR THE FOLLOWING:
 - REINFORCING FOR ALL CONCRETE REQUIRED TO HAVE INSPECTION NOTED ABOVE.
 - REINFORCING FOR SPREAD FOOTING CONCRETE FOUNDATIONS.

STEEL CONSTRUCTION:

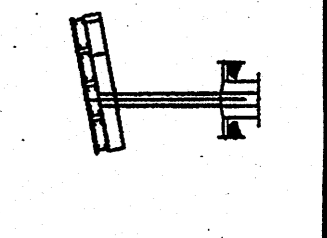
- WELDING:
 - PERIODIC VISUAL INSPECTION OF ALL FIELD WELDS.
 - CONTINUOUS INSPECTION OF ALL MULTIPASS FILLET WELDS OR SINGLE PASS FILLET WELDS LARGER THAN 5/16".
 - NON-DESTRUCTIVE TESTING OF ALL COMPLETE PENETRATION WELDS BY AN AWS CERTIFIED INDEPENDENT TESTING LABORATORY AT THE CONTRACTORS EXPENSE.
 - VERIFICATION OF VALID WELDER'S CERTIFICATES.
 - ALL STRUCTURAL STEEL FABRICATORS SHALL EMPLOY AN AWS CERTIFIED INDEPENDENT TESTING LAB TO PROVIDE SHOP INSPECTIONS PER CODE. INSPECTION REPORTS SHALL BE SUBMITTED TO ENGINEER OF RECORD PRIOR TO STEEL INSTALLATION.
- STEEL FRAMES: VERIFICATION OF BRACING, STIFFENING, MEMBER LOCATIONS, AND PROPER JOINT DETAIL APPLICATION AT ALL STEEL FRAME CONNECTIONS.
- HIGH STRENGTH BOLTING:
 - VERIFICATION OF SNUG TIGHT BOLT INSTALLATION FOR ASTM A325N BOLTS.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

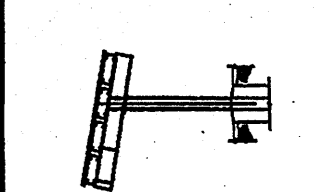
- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATION.
- THE SPECIAL INSPECTOR IS NOT AUTHORIZED TO APPROVE DEVIATIONS FROM THE DESIGN DRAWINGS OR SPECIFICATIONS, AND ALL DEVIATIONS MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE WORK. ALL REQUESTS FOR DEVIATIONS SHALL BE INITIATED BY THE CONTRACTOR VIA WRITTEN REQUEST FOR INFORMATION (RFI).
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OR ARCHITECT OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
- CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR ACCESS TO ALL ITEMS REQUIRING SPECIAL INSPECTION. ACCESS SHALL BE PROVIDED BY IN-PLACE LADDERS, SCAFFOLDS, LIFTS AND/OR OTHER EQUIPMENT OPERATED BY THE CONTRACTOR'S PERSONNEL AS REQUIRED FOR SAFE OBSERVATION. INSPECTOR IS NOT RESPONSIBLE OR AUTHORIZED TO OPERATE CONTRACTOR'S EQUIPMENT.
- UPON COMPLETION OF THE ASSIGNED WORK THE ENGINEER OR ARCHITECT SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT TO THE BEST OF THEIR KNOWLEDGE THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.



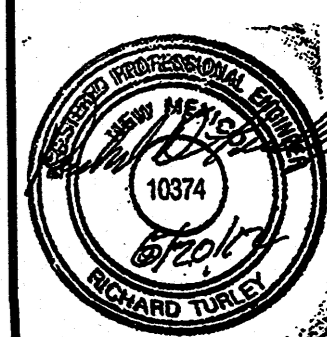
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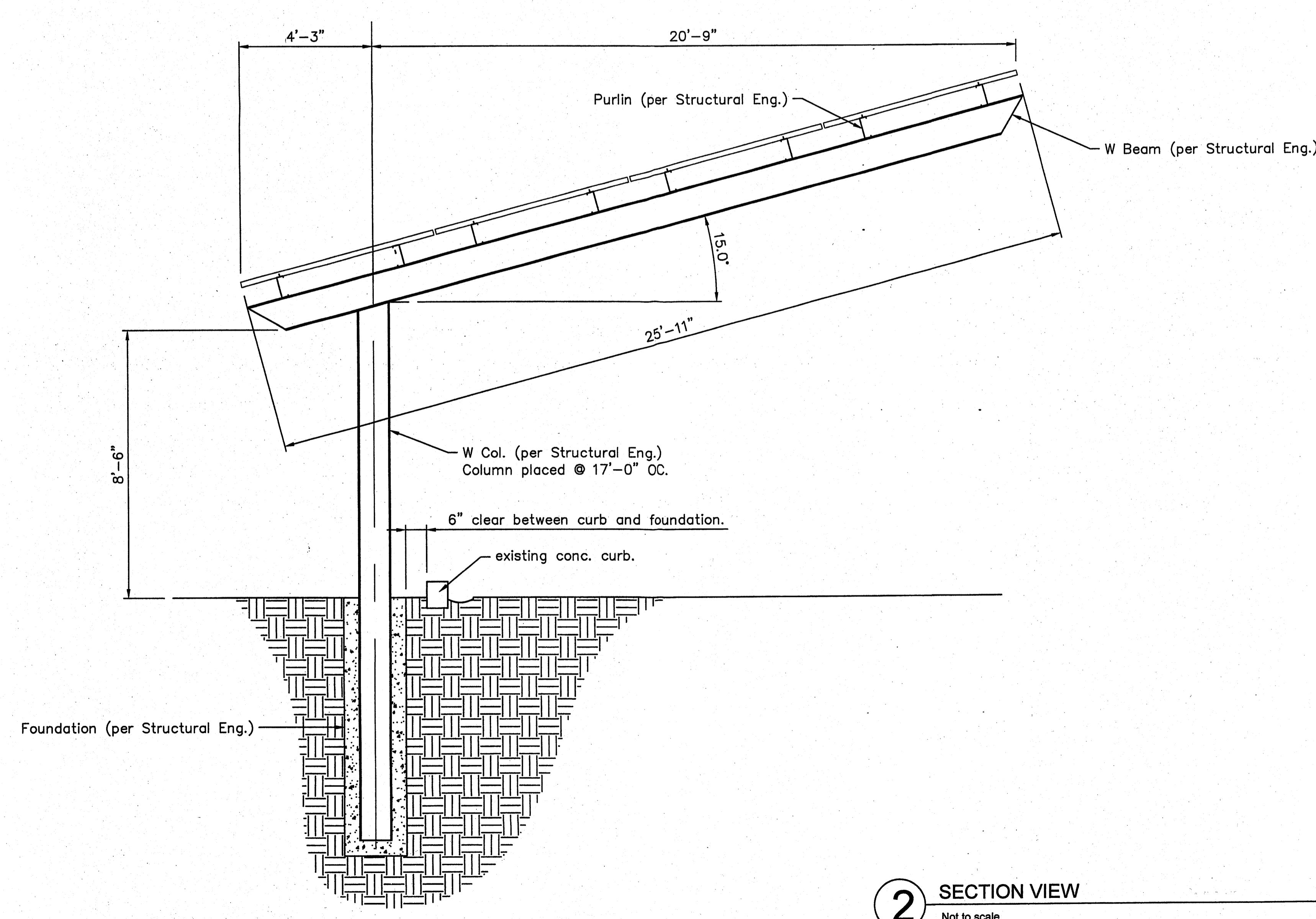
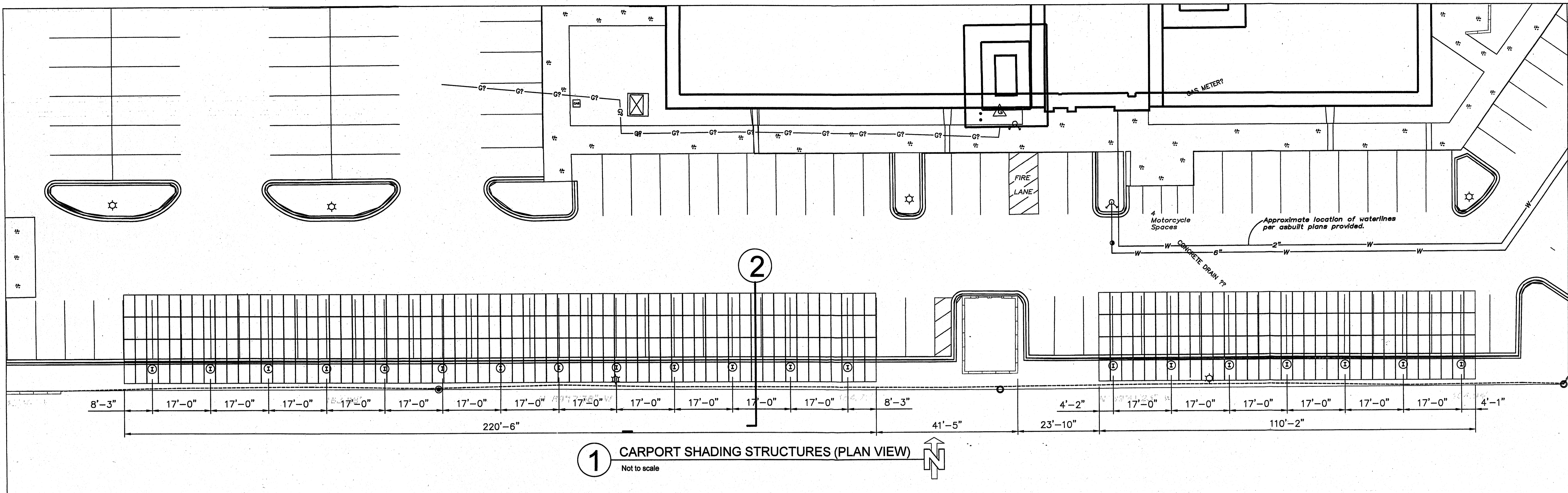
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RESOLUTE PERFORMANCE
CONTRACTING
5014 E DESERT PARK LN
PHOENIX, AZ 8523



REVISIONS	
JOB NUMBER:	12-520
DRAWN:	ENGINEER:
DB	AFW
CHECKED:	SCALE:
PGS	AS NOTED
DATE:	5-29-12
SHEET:	S2



SYSTEM SUMMARY	
PV MODULE TYPE	280W
# MODULES	396
TOTAL STC RATED DC POWER	110.88kW
STRING CONFIGURATION	11 MODULES IN SERIES
TOTAL # OF STRINGS	36 PARALLEL STRINGS

DESIGN CONSIDERATIONS	
TILT	15 Deg.
MODULE ORIENTATION	Portrait
XX	XX

PROJECT NOTES:
This is a conceptual layout based on Google Earth scale, the final layout may change based on actual field conditions and final engineering. DO NOT USE FOR CONSTRUCTION.

DATE	REV	REVISION/DESCRIPTION
06/19/2012	A	FOR PERMITTING
05/11/2012	B	FOR APPROVAL
03/12/2012	C	Conceptual Layout
02/10/2012	D	Conceptual Layout

PROJECT NOTES:
This is a conceptual layout based on Google Earth scale, the final layout may change based on actual field conditions and final engineering. DO NOT USE FOR CONSTRUCTION.

U of PHX Albuquerque
Albuquerque, NM

CUSTOMER: Phoenix Solar
DRAFTING SERVICE: Resolute Performance Contracting

REV. NO. **D** DATE: 02-10-12 DRAWN BY: VS CHECKED BY: RO
JOB NO. **12-023J**
Dwg. NO. **01**

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