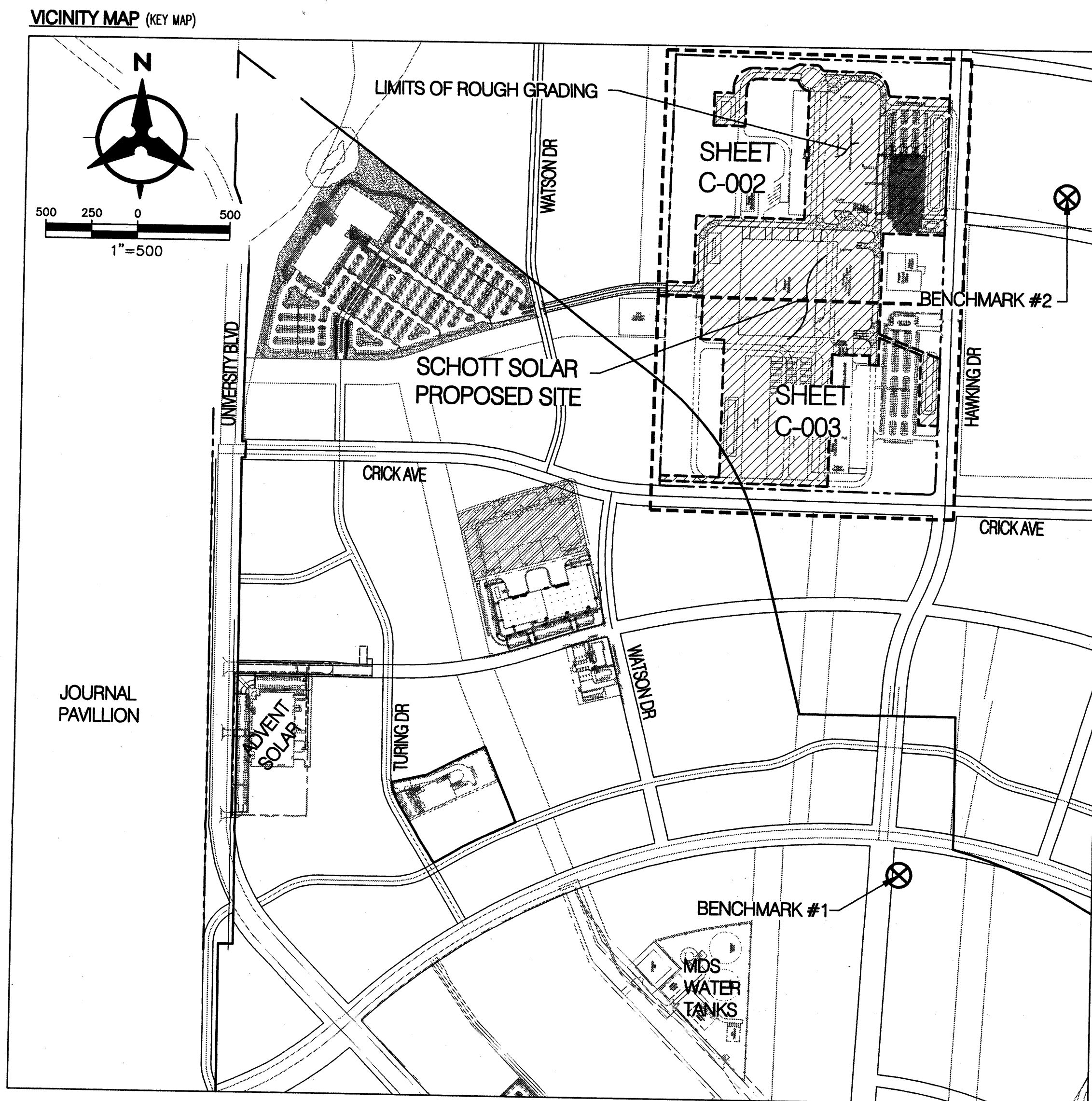




PROJECT BENCH MARKS:

BENCHMARK #1	BENCHMARK #2
1_R16 N1453939.35 E1533242.614 5291.48	3_016 N1457546.798 E1534025.978 5310.42

SCHOTT solar

PHASE 1 ROUGH GRADING PLAN

SHEET INDEX

SHEET NUMBER	DESCRIPTION
C-001	COVER SHEET
C-002	ROUGH GRADING PLAN
C-003	ROUGH GRADING PLAN

GENERAL NOTES

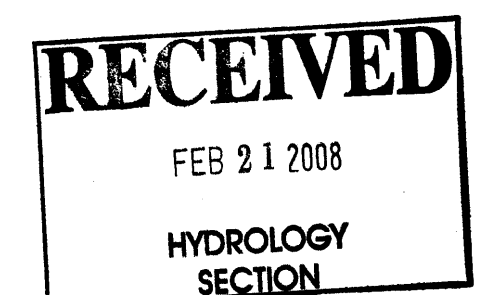
1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT, WHERE APPLICABLE, CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS SHALL APPLY.
2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
7. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
8. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADES, TOPSOIL, DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).
10. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADES AT THE END AND BEGINNING OF EACH DAY.
14. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.

GRADING NOTES

1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION" AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).
4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
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7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND Haul TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
8. PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.1' FROM BUILDING PLAN ELEVATION.
9. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDANS AND ISLANDS.
10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.
11. SITE CONSTRUCTION TO MEET REQUIREMENTS OF SWPPP (STORM WATER POLLUTION PREVENTION PLAN).

ROUGH GRADING NOTES

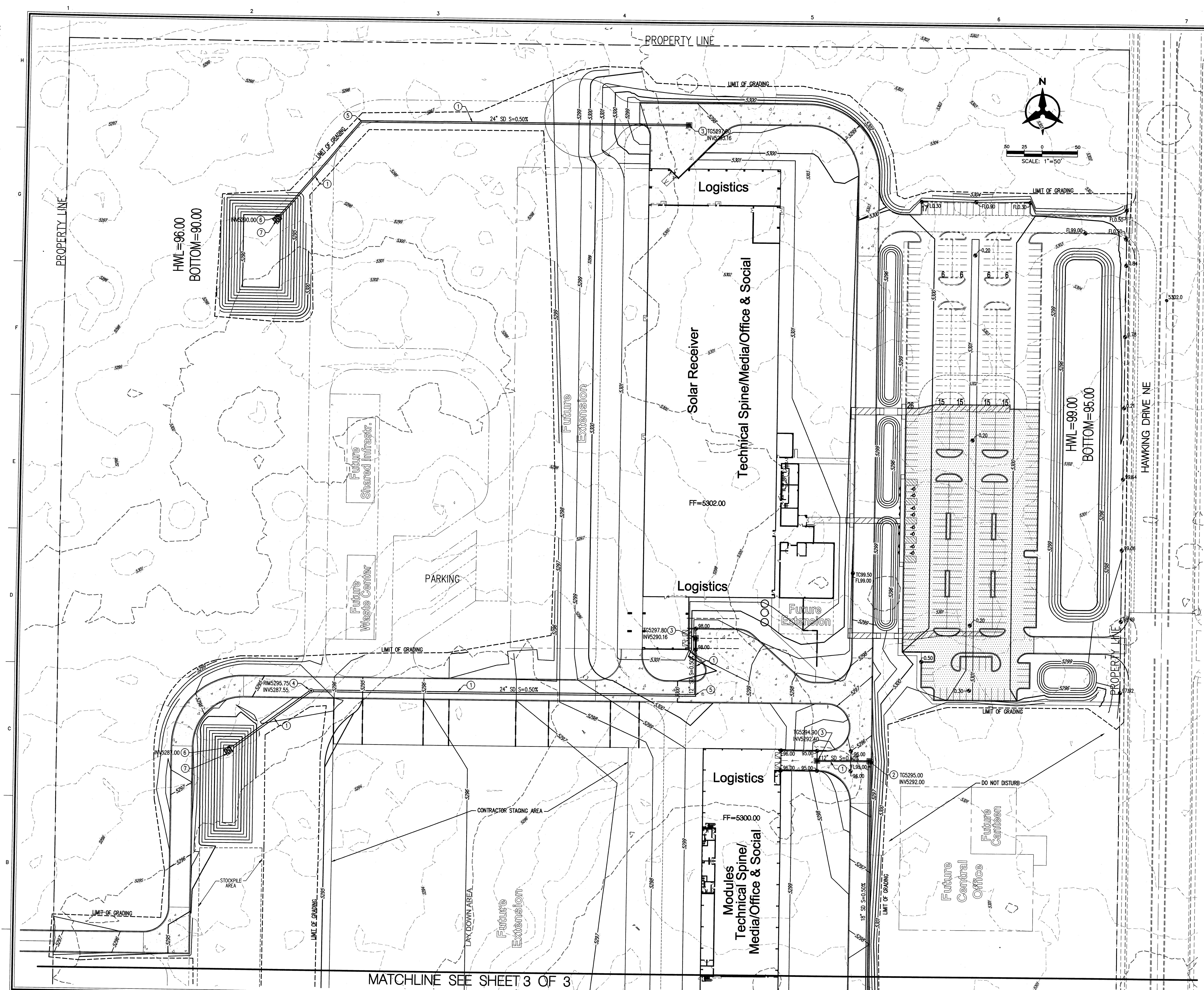
1. CONTRACTOR SHALL PROVIDE CERTIFIED FINISHED GRADE MAP, INCLUDING STOCKPILES (HARD COPY AND ELECTRONIC FORMAT - AUTOCAD PREFERRED) FROM A LICENSED SURVEYOR. TOPOGRAPHIC ACCURACY SHALL BE AS REQUIRED TO PROVIDE 1' CONTOUR INTERVAL MAP. BUILDING PAD SPOT ELEVATIONS PROVIDED ON 50' GRID.
2. CONTRACTOR IS RESPONSIBLE FOR SWPPP PREPARATION AND IMPLEMENTATION. SWPPP COORDINATION IS UNDER WAY. PLEASE CONTACT GRANT MORRISON AT INSPECTION PLUS: 242-9609.
3. ACQUISITION OF CONSTRUCTION WATER FOR DUST CONTROL AND EARTH WORK ACTIVITY IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. BUILDING PADS SHALL BE LEFT 0.7' BELOW FINISHED FLOORS SHOWN.
5. PAVEMENT AREAS SHALL BE LEFT 0.5' BELOW FINISHED GRADES SHOWN.
6. CONCRETE AREAS SHALL BE LEFT 0.8' BELOW FINISHED GRADES SHOWN.
7. CONTRACTOR SHALL FOCUS CONSTRUCTION ON BUILDING PADS. THESE TWO BUILDING PADS SHALL BE FIRST PRIORITY FOR COMPLETION.



Bradley L. Byles 2/15/08
APPROVED FOR ROUGH GRADING DATE

BID SET

Bohannon & Huston Courtyard 7500 Jefferson St. NE Albuquerque, NM 87109-4335 ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES				CH2MHILL Spartanburg, South Carolina		SHEET TITLE: COVER SHEET		JOB NAME: SCHOTT solar SUN ReMo ALBUQUERQUE, NEW MEXICO		JOB NO.: FILENAME:366450 SCALE: 1"=500' REV. NO.: 1 OF 3	
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 11. SITE CONSTRUCTION TO MEET REQUIREMENTS OF SWPPP (STORM WATER POLLUTION PREVENTION PLAN).

- KEYED NOTES**
1. INSTALL STORM DRAIN, A05-N12 HOPE OR APPROVED EQUAL. SIZE PER PLANS.
 2. INSTALL TYPE "C" STORM DRAIN INLET PER COA STD DWG 2205.
 3. INSTALL TYPE "D" STORM DRAIN INLET PER COA STD DWG 2206. TYPE "D" INLETS CAN BE SUBSTITUTED WITH NYLOPLAST ROAD AND HIGHWAY DRAINAGE INLET STRUCTURE W/2X 3" STEEL BAR GRATE (261.2 SQ IN. APPROXIMATE DRAIN AREA) H-25 RATED GRATE (OR APPROVED EQUAL).
 4. MANHOLES SHALL BE BUILT PER COA STD. DWG. 2102 (TYPE "E") AND 2101 (TYPE "C").
 5. INSTALL PRE-FABRICATED FITTING, SEE PLANS FOR SIZE.
 6. INSTALL CMP END SECTION, SEE PLANS FOR SIZE.
 7. INSTALL 10'x10' RIP-RAP BLANKET PER DETAIL SHEET C003.

NOTE
HOPE PIPE, MANHOLES, WATER STOP GASKETS, GRATES/COLLARS, AND DROP INLETS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER'S SPECIFICATIONS

MATCHLINE SEE SHEET 3 OF 3

NO.	DATE	REVISION	BY	CHK.	APPR.

Bohannon & Huston
Courtney | 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING & SPATIAL DATA & ADVANCED TECHNOLOGIES

DESIGNED BY
CHECKED BY
APPR. BY
CLIENT APPR.

CH2MHILL
Spartanburg, South Carolina

SHEET TITLE
CONCEPTUAL GRADING PLAN

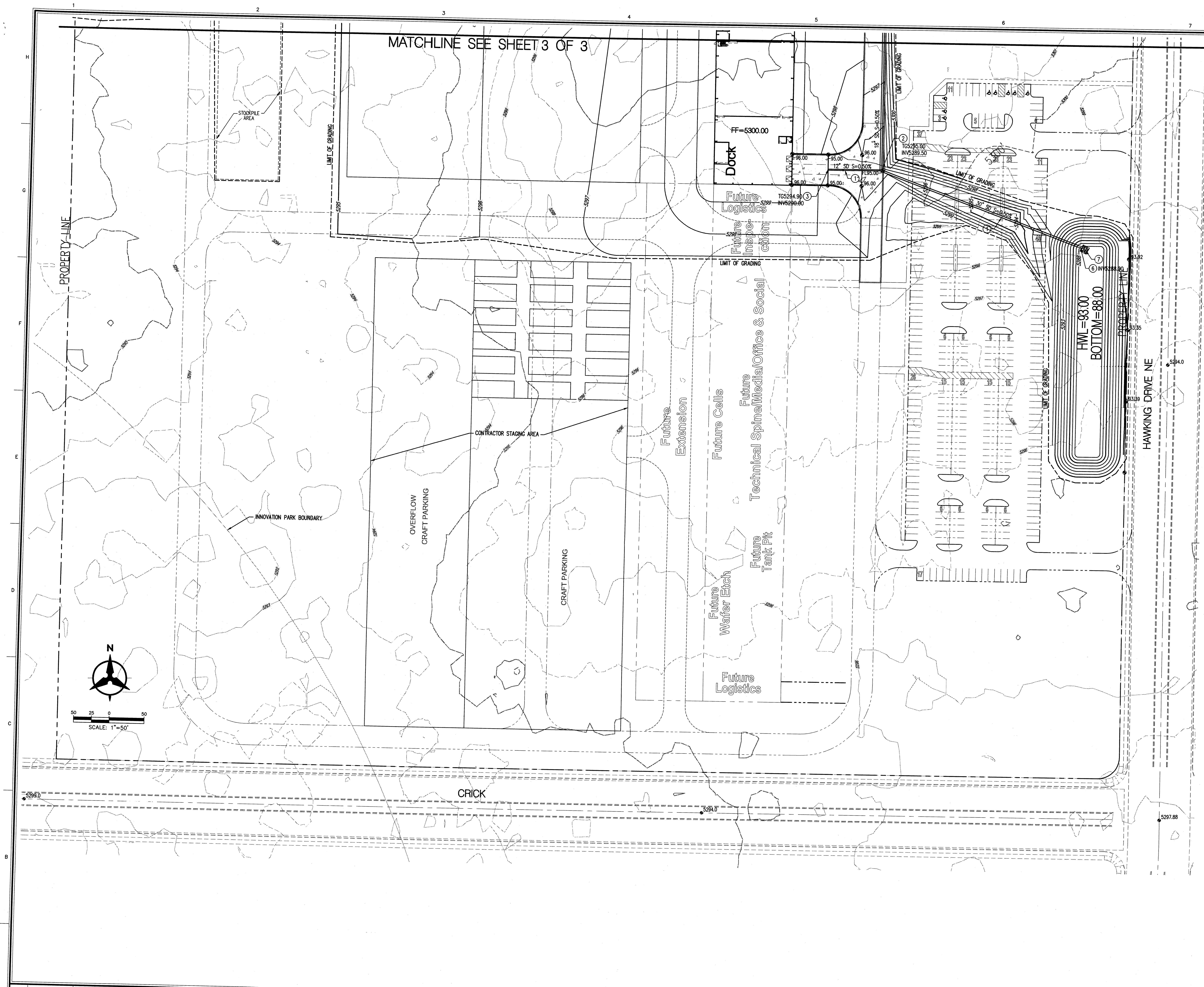
JOB NAME
SCHOTT solar
SUN ReMo
ALBUQUERQUE, NEW MEXICO

JOB NO.
FILENAME: 366450
SCALE
1"=50'
REV. NO.
DWG. NO. 2 of 3
C-002



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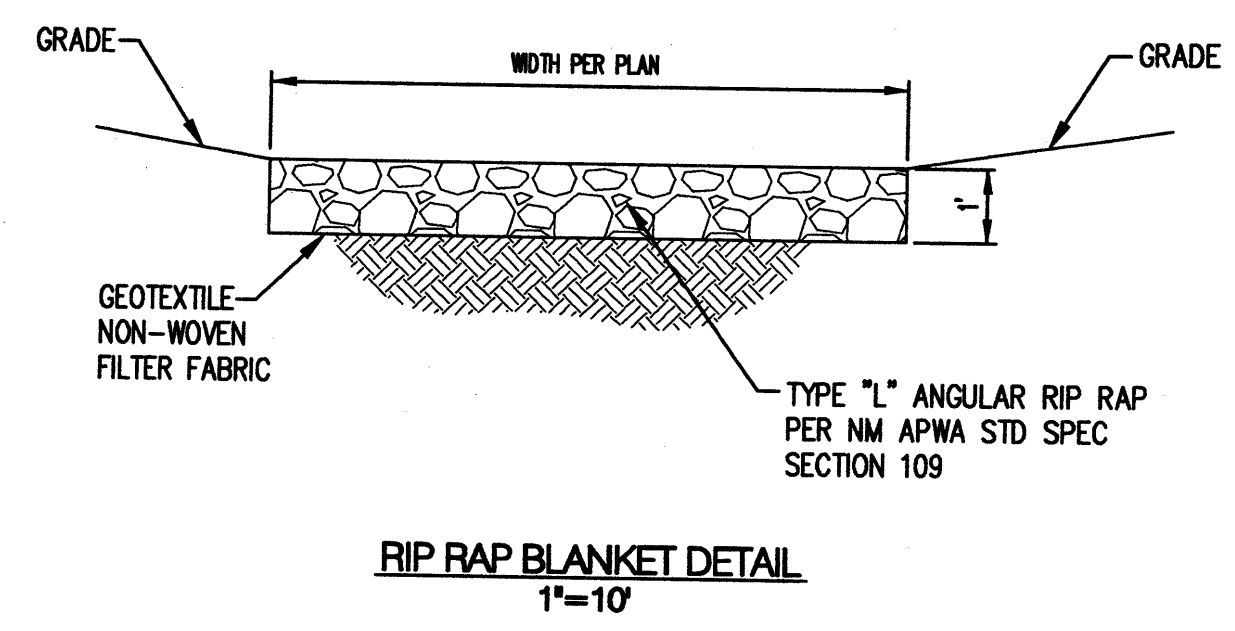
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 - INSTALL PRE-FABRICATED FITTING, SEE PLANS FOR SIZE.
 - INSTALL CAP END SECTION, SEE PLANS FOR SIZE.
 - INSTALL 10'x10' RP-RAP BLANKET PER DETAIL SHEET C003.

NOTE
HOPE PPE, MANHOLES, WATER STOP GASKETS, GRATES/COLLARS, AND DROP INLETS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER'S SPECIFICATIONS

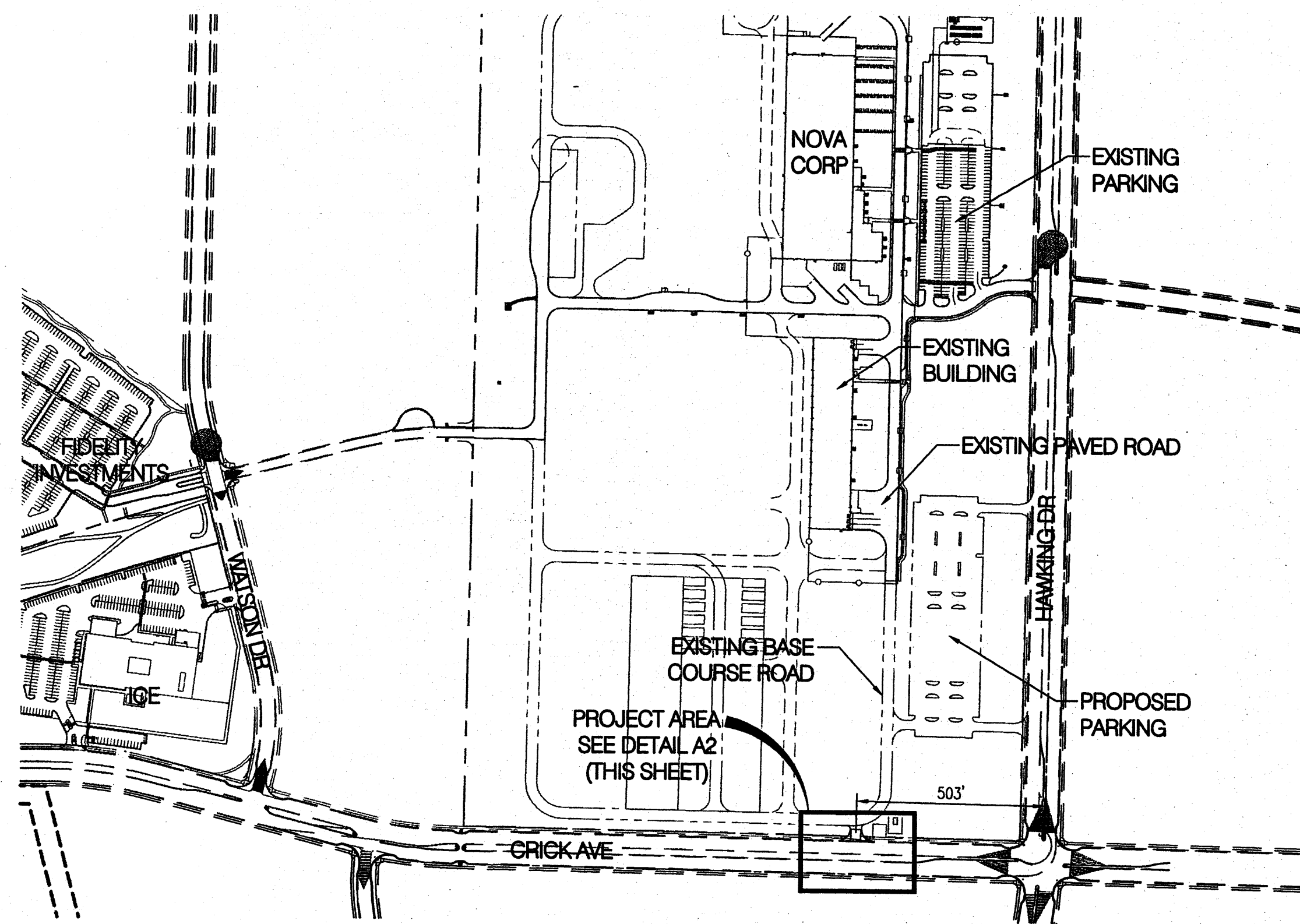


Bohannon & Huston Courtyard 7500 Jefferson St. NE Albuquerque, NM 87109-4335 ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES		CH2MHILL Spartanburg, South Carolina		CONCEPTUAL GRADING PLAN		SCHOTT solar SUN ReMo ALBUQUERQUE, NEW MEXICO		JOB NO. 366450 SCALE: 1"=50' REV. NO. 3-4-3 C-003	
DESIGNED BY: _____ CHECKED BY: _____ APPR. BY: _____ CLIENT APPR. _____		JOB NAME: _____		SHEET TITLE: _____		JOB NO. _____		REV. NO. _____	

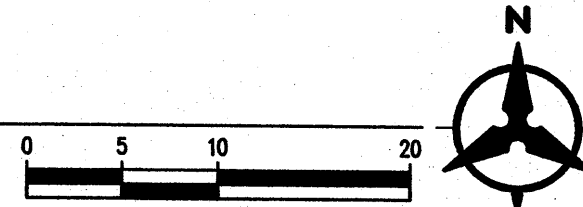


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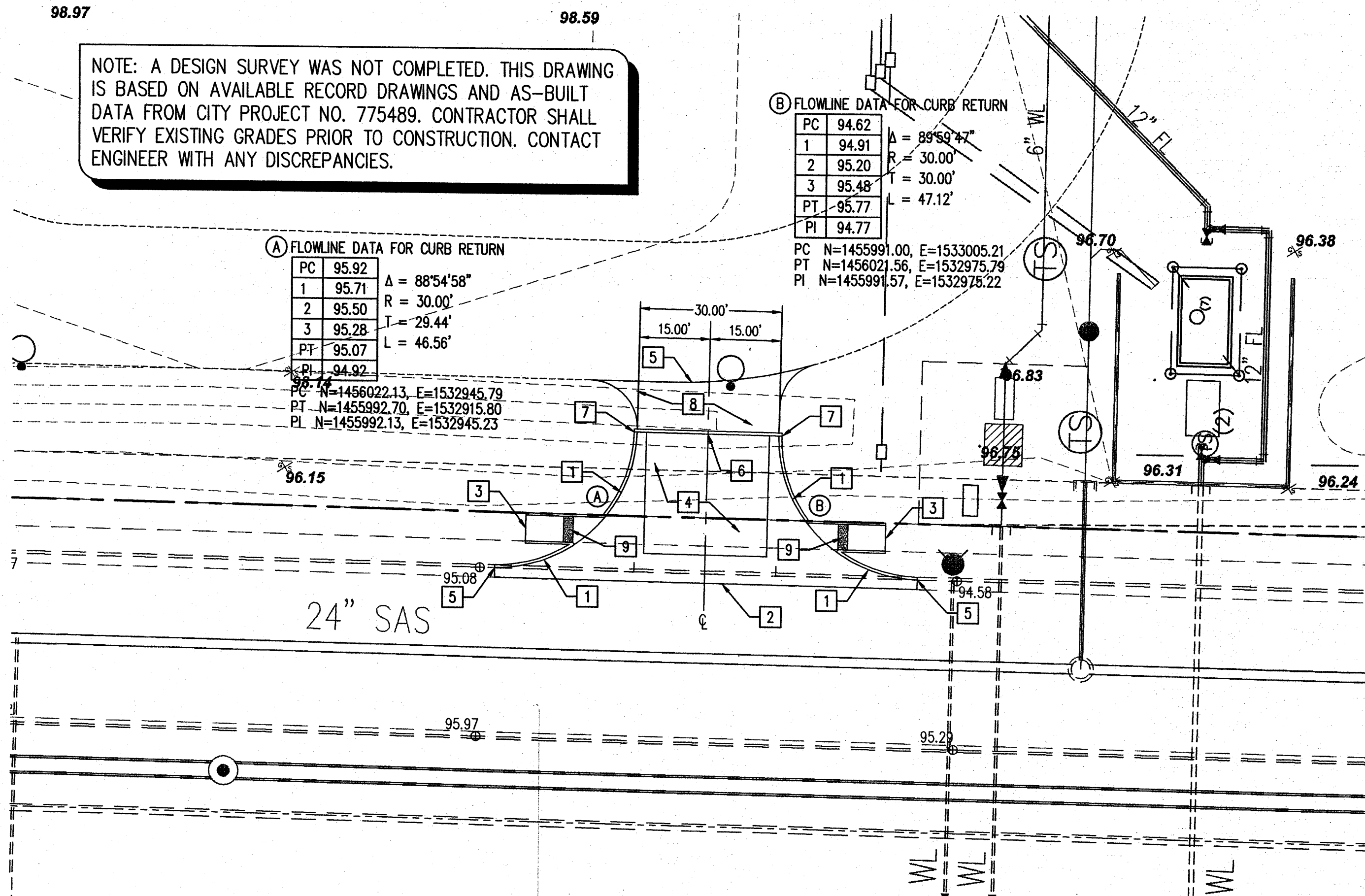
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Printed at 11:53am on Feb 15, 2008 by daniel



A1 MESA DEL SOL VICINITY MAP
SCALE: 1" = 300'



NOTE: A DESIGN SURVEY WAS NOT COMPLETED. THIS DRAWING IS BASED ON AVAILABLE RECORD DRAWINGS AND AS-BUILT DATA FROM CITY PROJECT NO. 775489. CONTRACTOR SHALL VERIFY EXISTING GRADES PRIOR TO CONSTRUCTION. CONTACT ENGINEER WITH ANY DISCREPANCIES.



A2 COMMERCIAL ENTRANCE
SCALE: 1" = 20'



D1 CURB RAMP
N.T.S.

NOTE: EXISTING UTILITIES AND APPURTENANCES SHOWN HERE ON ARE APPROXIMATE IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION PROVIDED BY AVAILABLE RECORD DRAWINGS AND AS-BUILT DATA, AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION. ACCURACY, LOCATION, AND COMPLETENESS OF UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE VERIFIED PRIOR TO THE INITIATION OF CONSTRUCTION, BY ANY MEANS NECESSARY. EXISTING UTILITIES NOT SHOWN ON THE DOCUMENTS ARE LIKELY TO EXIST. ANY UNKNOWN UTILITIES ENCOUNTERED BY THE CONTRACTOR SHALL BE BROUGHT PROMPTLY TO THE ATTENTION OF THE OWNER AND ENGINEER.

GENERAL GRADING NOTES

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SHEET KEYED NOTES

- BUILD STANDARD CURB & GUTTER PER COA STD DWG 2415B.
- INSTALL 6" CONCRETE VALLEY GUTTER PER COA STD DWG 2420.
- INSTALL CURB RAMP PER DETAIL D1, THIS SHEET.
- INSTALL FLEXIBLE PAVEMENT SECTION PER COA STD DWG 2407.
- MATCH EXISTING ELEVATION.
- INSTALL CONCRETE CUT-OFF WALL PER COA STD DWG 2415B.
- INSTALL 5' TRANSITION FROM STANDARD CURB & GUTTER TO NO CURB FLUSH WITH CUT-OFF WALL.
- INSTALL BASE COURSE ROAD PER SECTION, THIS SHEET; STRAIGHT GRADE TO MATCH EXISTING BASE COURSE ROAD.
- INSTALL ADA TACTILE WARNING DEVICE PER CITY STANDARDS AND ADA GUIDELINES. SUBMIT PRODUCT SPECIFICATIONS TO CITY PROJECT MANAGER PRIOR TO CONSTRUCTION (INCIDENTAL TO CURB RAMPS)

6" AGGREGATE BASE COURSE

12" SUBGRADE PREPARATION
95% MAXIMUM DENSITY
PER ASTM D-1557 (R=50)

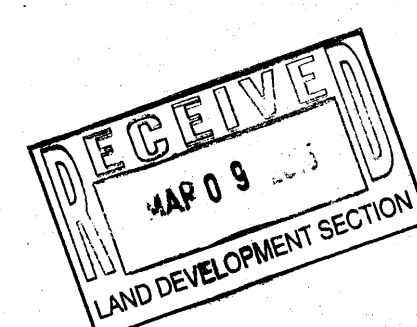
AGGREGATE BASE COURSE SECTION
NOT TO SCALE

GENERAL NOTES

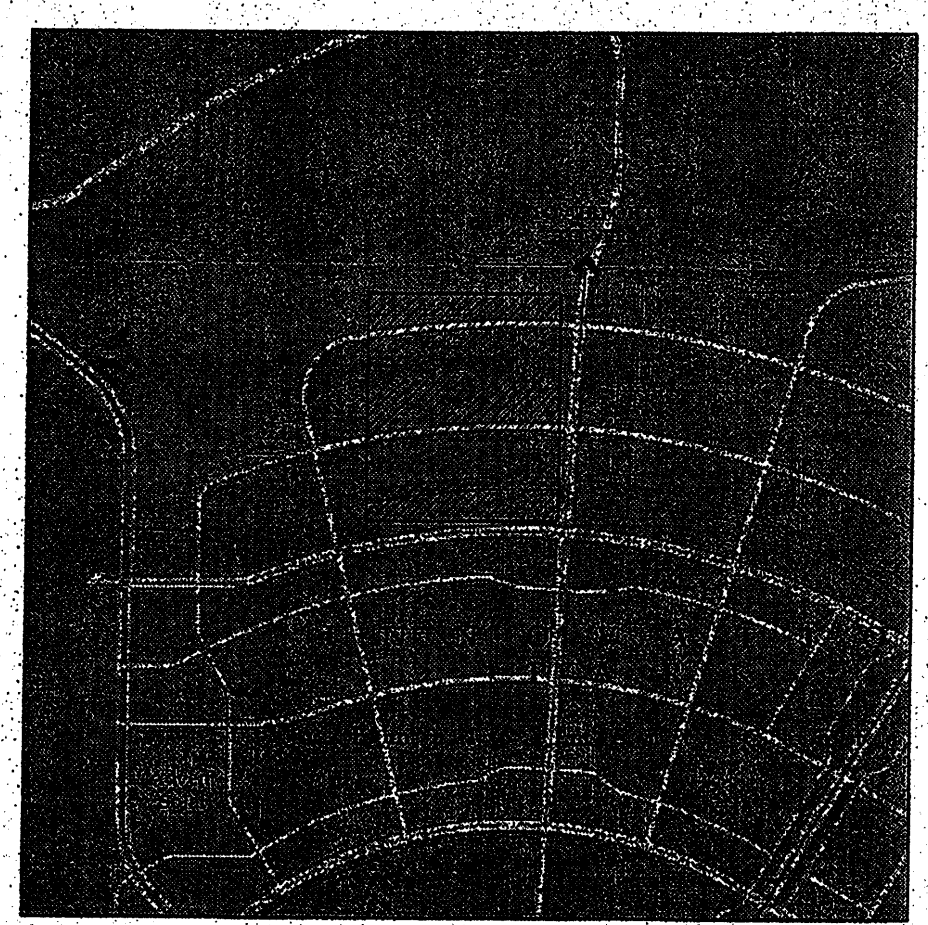
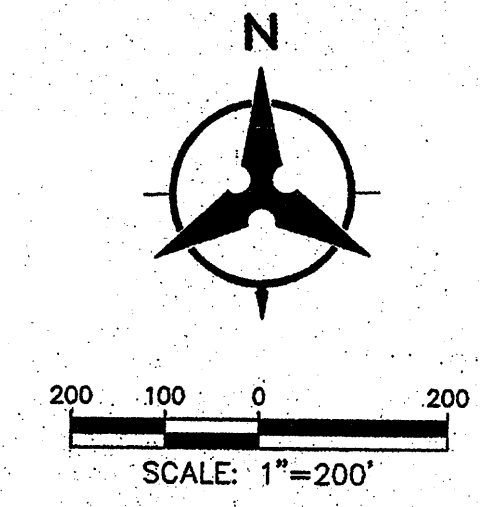
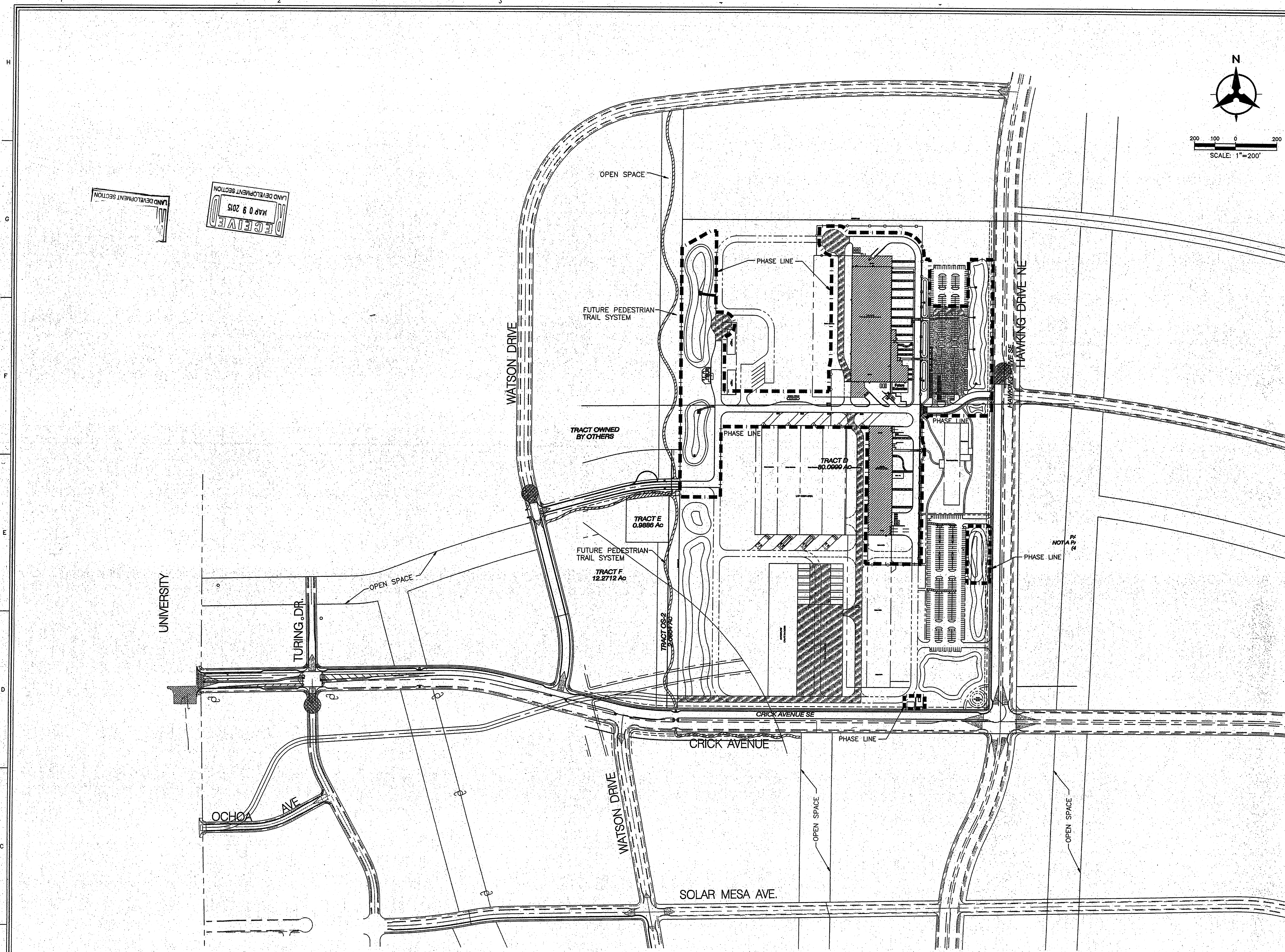
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- ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.

LEGEND

- PROPERTY LINE
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- AS-BUILT EXISTING GROUND SPOT
- PROPOSED CURB & GUTTER



ENGINEER'S SEAL		NOVA ENTRANCE (FORMERLY SCHOTT)	
		CURB CUT PERMIT SHEET	
AS-BUILT INFORMATION		GRADING & PAVING PLAN	
CONTRACTOR	DATE	NO. DATE	OF SHEET
WORK STATED BY	DATE	REVISIONS	1
INSPECTOR'S ACCEPTANCE BY	DATE	DESIGNED BY	1
FIELD VERIFICATION BY	DATE	DRAWN BY	1
DRAWINGS CORRECTED BY	DATE	CHECKED BY	1
BENCH MARKS		FILE NO. Q16/DA5000	
ACS 3-1/4" ALUMINUM CAP RIVETED TO A TUBE SET IN A CONCRETE BASE IN THE GROUND STAMPED BY	DATE	C-1	
"5-0-14, 1987" FROM THE RIO BRAVO BLVD AND BROADWAY INTERSECTION GO SOUTH 0.9 MILES AND PROCEED 123' WEST OF THE CENTERLINE. STATE PLANE COORD. (CENTRAL ZONE, NAD83/NAVDS83)	DATE	DWG NO.	
CITY PROJECT NO.		DWG NO.	



COA ZONE ATLAS PAGE Q-16-Z

BUILDING DATA

SOLAR RECEIVER BUILDING = 121,810 SQ FT
MODULES BUILDING = 55,105 SQ FT

PARKING DATA
(PARKING CALCULATIONS BASED ON PHASE 1 RECEIVER AND MODULE BUILDING)

1. PARKING CAPACITY:
BUILDING AREA OFFICE: 11,050 SF/200 SQ FT = 56 PARKING SPACES REQUIRED
BUILDING AREA PRODUCTION/STORAGE: 165,865 SF/1000 SQ FT = 166 PARKING SPACES REQUIRED
PARKING SPACES REQUIRED: 222 PARKING SPACES
PARKING SPACES PROVIDED: 222 PARKING SPACES (3 FULL SIZE CONVERTED TO 6 MOTORCYCLE SPACES)
2. BICYCLE PARKING:
174 FTE x 5.0% = 9 SPACES REQUIRED
20 SPACES PROVIDED
3. LOW EMISSION AND FUEL EFFICIENT VEHICLES:
222 SPACES PROVIDED x 5.0% = 12 SPACES REQUIRED
12 SPACES PROVIDED
4. CAR POOL AND VAN POOL PREFERRED PARKING:
222 PROVIDED SPACES x 5.0% = 12 SPACES REQUIRED
12 SPACES PROVIDED
5. MOTORCYCLE SPACES: 5 REQUIRED
6 PROVIDED

SHEET INDEX

Drawing Number	Description
GN-C-003	Overall Site Plan
GN-C-006	Conceptual Site Layout
GN-C-007	Conceptual Site Layout
GN-C-MD01	Miscellaneous Site Details
GN-C-100	Conceptual Overall Grading Plan
GN-CD-101	Conceptual Overall Grading Plan
GN-CD-100	Phase 1 Grading & Drainage Plan
GN-CD-101	Phase 1 Grading & Drainage Plan
GN-CD-102	Phase 1 Grading & Drainage Plan
GN-CD-103	Phase 1 Grading & Drainage Plan
GN-CD-104	Phase 1 Grading & Drainage Plan
GN-CD-105	Phase 1 Grading & Drainage Plan
GN-C-102	Water Harvesting Plan
GN-C-200	Phase 1 Utility Plan
GN-C-201	Phase 1 Utility Plan
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L103	Phase 1 Landscape Plan Enlargements
L101 -FB	Landscape Plan Full Build-Out
L102 -FB	Landscape Plan Full Build-Out
L103 -FB	Landscape Plan Full Build-Out
GN-E-120	Site Lighting Roadway & Parking Calc. Grid
GN-E-121	Site Lighting Overall Calc. Grid

Approved for compliance with PC Zoning Level "A" and Level "B" Plans and complies with the Design Standards of the Mesa del Sol Employment Center Covenants, Conditions & Restrictions.

Architectural Review Committee
Mesa del Sol Employment Center
By *Carrie Blesiot*
Carrie Blesiot, Administrator



SEPTEMBER 22, 2008

09-22-08	FINAL SITE PLAN SUBMITTAL	RWB	JLM
NO	DATE	REVISION	BY

Bohannon & Huston
Courtyard 1 7500 Jefferson St NE Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

DESIGNED BY	
DRAWN BY	
APPR. BY	

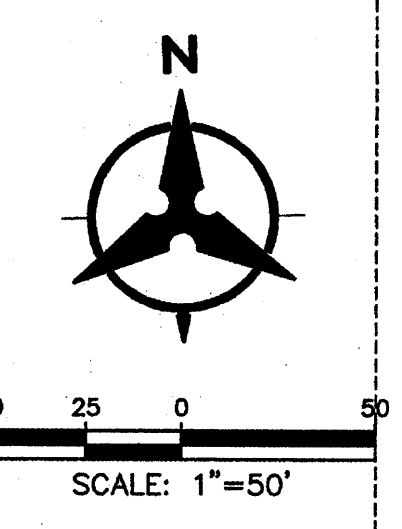
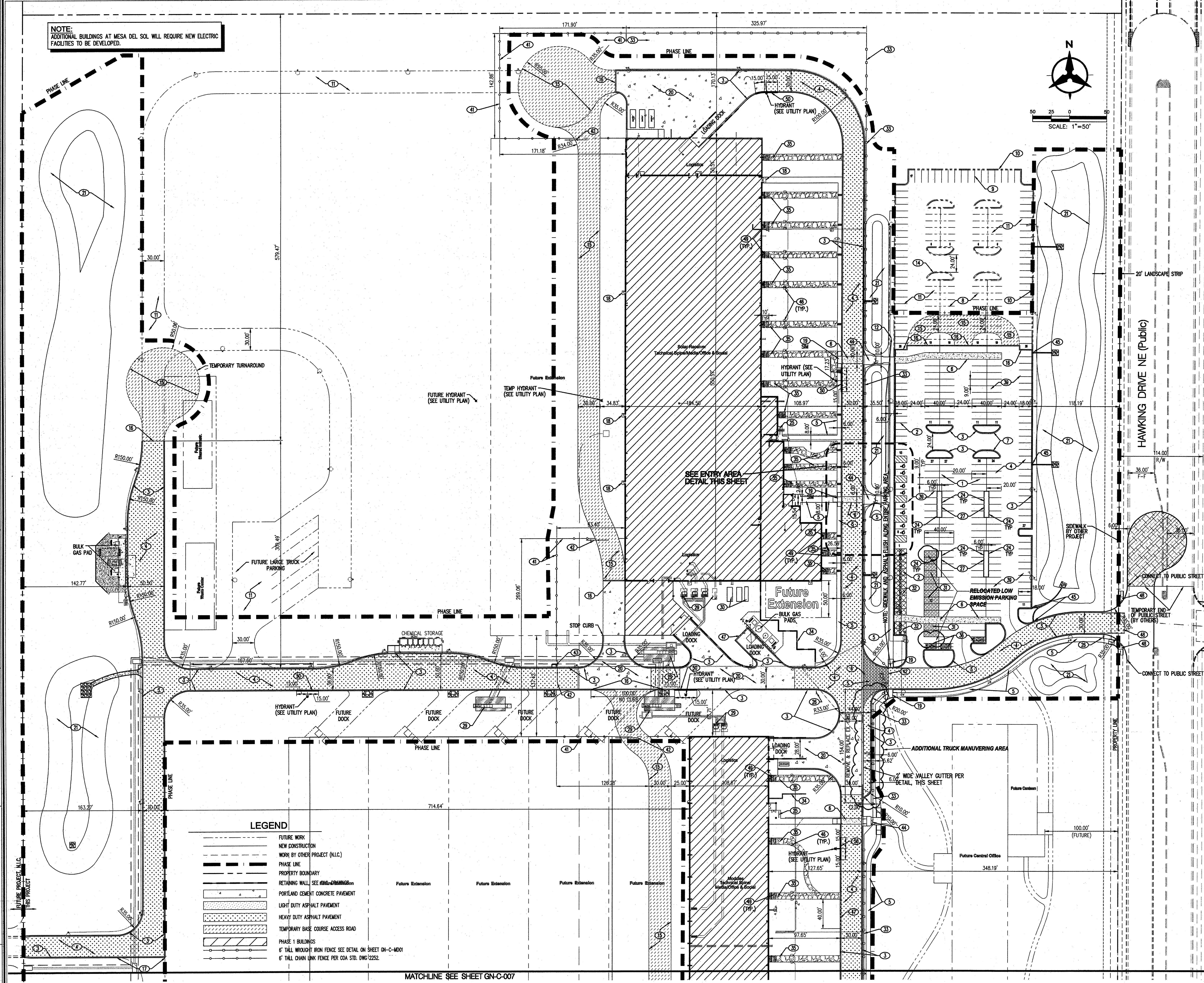
CH2MHILL
Spartanburg, South Carolina

SHEET TITLE: OVERALL SITE PLAN

SCHOTT solar
SUN R&M
ALBUQUERQUE, NEW MEXICO

JOB NO. 366450	REV. NO.
FILENAME	
SCALE 1"=100'	DWG. NO. GN-C-003

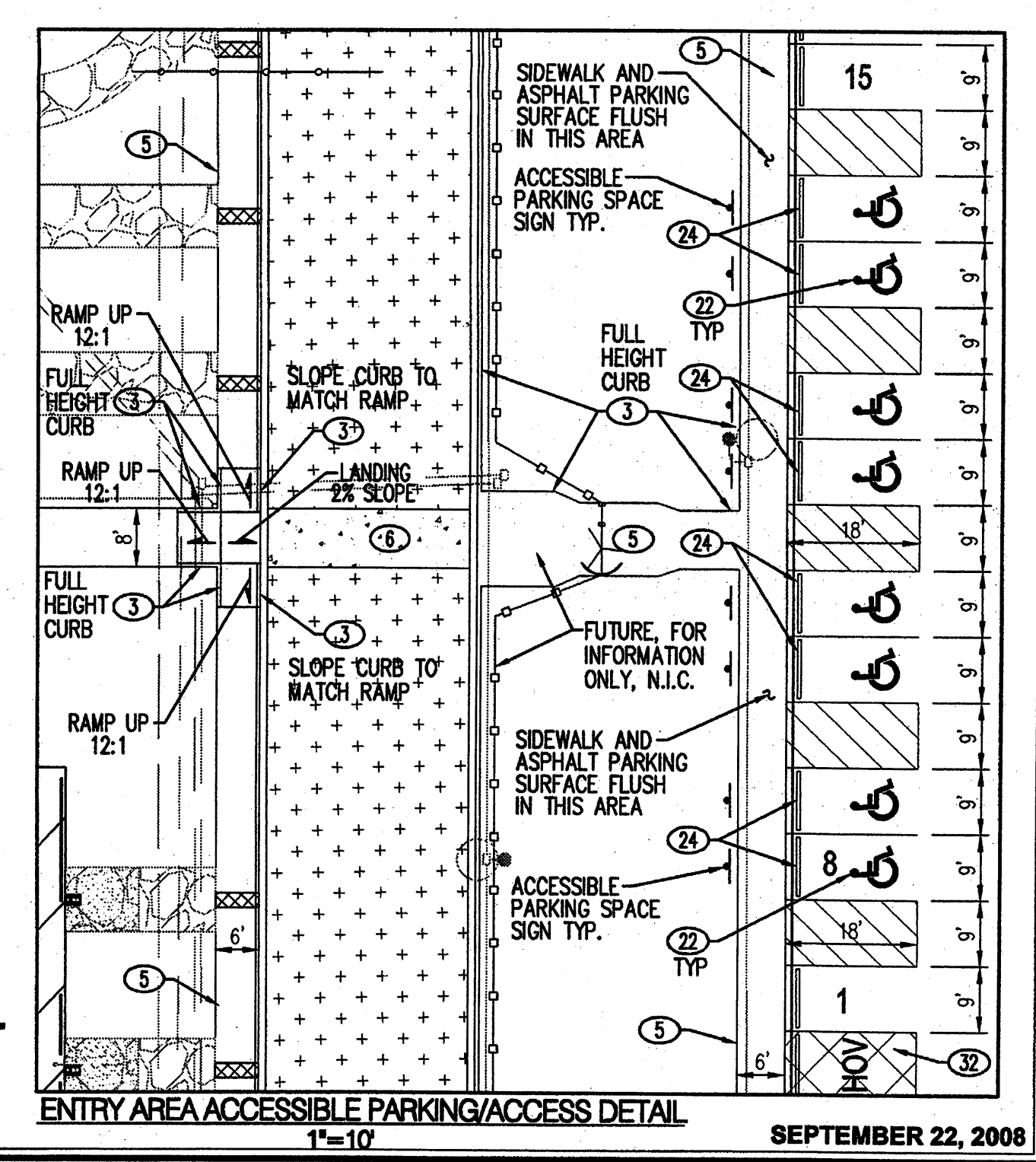
NOTE:
ADDITIONAL BUILDINGS AT MESA DEL SOL WILL REQUIRE NEW ELECTRIC
FACILITIES TO BE DEVELOPED.



LEGEND

[Symbol]	FUTURE WORK
[Symbol]	NEW CONSTRUCTION
[Symbol]	WORK BY OTHER PROJECT (N.I.C.)
[Symbol]	PHASE LINE
[Symbol]	PROPERTY BOUNDARY
[Symbol]	RETAINING WALL SEE CIVIL DRAWING
[Symbol]	PORTLAND CEMENT CONCRETE PAVEMENT
[Symbol]	LIGHT DUTY ASPHALT PAVEMENT
[Symbol]	HEAVY DUTY ASPHALT PAVEMENT
[Symbol]	TEMPORARY BASE COURSE ACCESS ROAD
[Symbol]	PHASE 1 BUILDINGS
[Symbol]	6" TALL WROUGHT IRON FENCE SEE DETAIL ON SHEET GN-C-001
[Symbol]	6" TALL CHAIN LINK FENCE PER COA STD. DWG 2252

- KEYED NOTES**
- 9'X20' WHITE PAINTED PARKING SPACES (TYP.)
 - 9'X18' WHITE PAINTED PARKING SPACES (TYP.)
 - CONSTRUCT CONCRETE MEDIAN CURB & GUTTER PER COA STD DWG 2415.
 - HEAVY DUTY ASPHALT PAVEMENT SECTION PER DETAIL ON SHEET GN-C-001.
 - 6" WIDE CONCRETE SIDEWALK (UNLESS NOTED OTHERWISE).
 - TERRA COTTA COLORED, STAMPED CONCRETE. SCOFIELD SYSTEMS LITOTEX PAVECRAFTERS RANDOM INTERLOCKING VERMONT SLATE PATTERN (OR APPROVED EQUAL).
 - 10'X40' LANDSCAPE ISLAND, SEE DETAIL ON SHEET GN-C-001.
 - FUTURE 9'X20' PARKING SPACES (TYP.), N.I.C.
 - FUTURE 9'X18' PARKING SPACES (TYP.), N.I.C.
 - FUTURE CONCRETE MEDIAN CURB & GUTTER, N.I.C.
 - FUTURE ASPHALT PAVEMENT, N.I.C.
 - FUTURE SIDEWALK, N.I.C.
 - FUTURE CROSSWALK, N.I.C.
 - FUTURE 10'X40' LANDSCAPE ISLAND, N.I.C.
 - TEMPORARY BASE COURSE ACCESS ROAD AND/OR PARKING AREA PER SECTION ON SHEET GN-C-001.
 - CONSTRUCT 8'X24" CONCRETE CUT-OFF WALL PER COA STD DWG 2412.
 - CONSTRUCT TEMPORARY ASPHALT CURB PER COA STD DWG 2415.
 - CONCRETE LANDING AT DOOR, SEE ARCHITECTURAL PLANS.
 - CONSTRUCT WHEEL CHAIR RAMP PER DETAIL ON SHEET GN-C-001.
 - CONCRETE PAVEMENT SECTION PER DETAIL ON SHEET GN-C-001.
 - STORM DRAINAGE PONDING, SEE CIVIL DRAWINGS.
 - ACCESSIBLE PARKING SPACES, PAINT INTERNATIONAL SYMBOL ON ASPHALT SURFACE (BLUE) INSTALL INTERNATIONAL SIGN ON POST PER DETAIL ON SHEET GN-C-001.
 - TEMPORARY CONSTRUCTION TRAILER LOCATION.
 - 8' CONCRETE BUMPER, INSTALL PER MFG. RECOMMENDATIONS.
 - 10 SPACE BICYCLE RACK PER DETAIL ON SHEET GN-C-001.
 - STOP SIGN.
 - 6'X36' LANDSCAPE ISLAND PER DETAIL ON SHEET GN-C-001.
 - BRICK DRIVING SURFACE PER COA STD. DWG 2412.
 - ELECTRICAL EQUIPMENT - SEE ELECTRICAL.
 - MECHANICAL EQUIPMENT - SEE MECHANICAL.
 - LOW EMISSION AND FUEL EFFICIENT VEHICLE PARKING (12 SPACES), INSTALL SIGNAGE PER DETAIL SHEET GN-C-001.
 - CAR POOL AND VAN POOL, PREFERRED PARKING (12 SPACES), INSTALL SIGNAGE PER DETAIL, SHEET GN-C-001.
 - PAINT ROW ON ASPHALT SURFACE.
 - 6" TALL WROUGHT IRON FENCE SEE DETAIL ON SHEET GN-C-001.
 - SCREEN WALL - SEE ARCHITECTURAL.
 - RIP RAP RUNDOWN, SEE CIVIL.
 - MOTORCYCLE PARKING SPACES (6 SPACES), INSTALL SIGNAGE PER DETAIL, SHEET GN-C-001.
 - SIGN/SEAT WALL PER DETAIL ON SHEET GN-C-001, FUTURE, FOR INFO. ONLY; N.I.C.
 - SCREEN WALL PER DETAIL ON SHEET GN-C-001.
 - LIGHT DUTY ASPHALT PAVEMENT SECTION PER DETAIL ON SHEET GN-C-001.
 - 84" LONG ROLLING WROUGHT IRON GATE.
 - 6" TALL CHAIN LINK FENCE PER COA STD. DWG 2252.
 - 6" TALL 32" LONG, LOOKABLE ROLLING GATE, MATCH FENCE TYPE, INSTALL CONCRETE ROLLING SURFACE.
 - 4' X 6' PRE-MANUFACTURED GUARDHOUSE ON CONC. PAD, REQUIRES POWER, TELECOM, AND NO PLUMBING.
 - 48" WIDE, FULL HEIGHT TURNSTILE (SINGLE) WITH ADJOINING PASSAGE GATE, BOTH WITH ELECTRONIC CARD READER.
 - CURB OPENING TO ALLOW STORM DRAINAGE, SEE CIVIL.
 - INSTALL FACADE LIGHTING WITH A MAXIMUM OF 3 FOOT-CANDLES.
 - * NOT USED ON THIS SHEET.



NO.	DATE	REVISION	BY	CHK.	APPR.

Bohannon & Huston
Courtney | 7500 Jefferson St. NE | Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

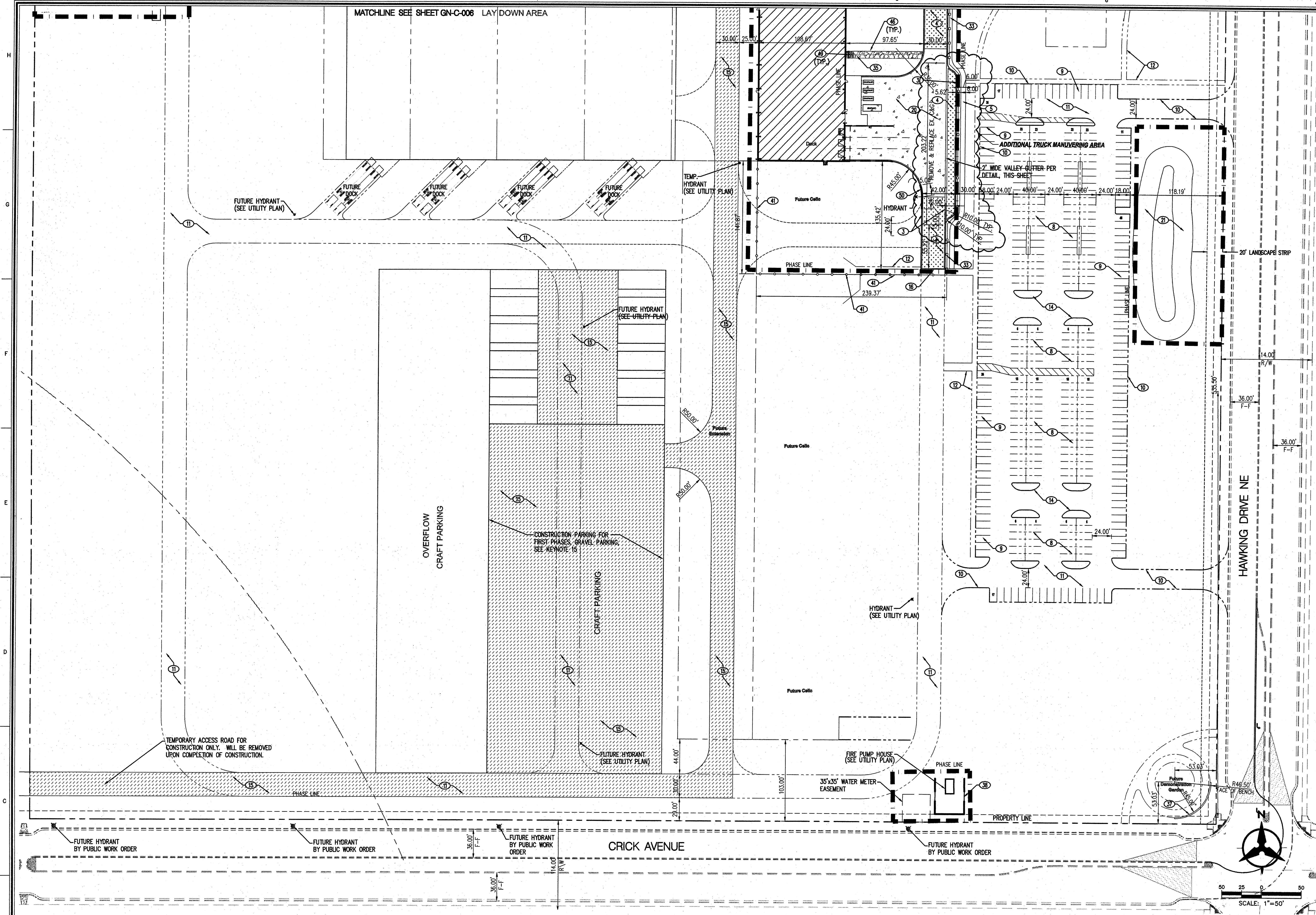
DESIGNED BY	
CHECKED BY	
APPR. BY	

CH2MHILL
Spartanburg, South Carolina

PHASE 1
CIVIL & SITE PLAN DRAWINGS
CONCEPTUAL SITE LAYOUT

SCHOTT solar
SUN REMO
ALBUQUERQUE, NEW MEXICO

JOB NO.	366450	REV. NO.	
FILENAME		DWG. NO.	GN-C-006
SCALE	1"=50'		



- KEYED NOTES**
- 1. 9'x20' WHITE PAINTED PARKING SPACES (TYP).
 - 2. 9'x18' WHITE PAINTED PARKING SPACES (TYP).
 - 3. CONSTRUCT CONCRETE MEDIAN CURB & GUTTER PER COA STD DWG 2415.
 - 4. HEAVY DUTY ASPHALT PAVEMENT SECTION PER DETAIL ON SHEET GN-C-M001.
 - 5. 6' WIDE CONCRETE SIDEWALK (UNLESS NOTED OTHERWISE).
 - 6. TERRA COTTA COLORED, STAMPED CONCRETE. SCOFIELD SYSTEMS LITHOTEX PAVEGRATERS RANDOM INTERLOCKING VERMONT SLATE PATTERN (OR APPROVED EQUAL).
 - 7. 10'x40' LANDSCAPE ISLAND, SEE DETAIL ON SHEET GN-C-M001.
 - 8. FUTURE 9'x20' PARKING SPACES (TYP), N.L.C.
 - 9. FUTURE 9'x18' PARKING SPACES (TYP), N.L.C.
 - 10. FUTURE CONCRETE MEDIAN CURB & GUTTER, N.L.C.
 - 11. FUTURE ASPHALT PAVEMENT, N.L.C.
 - 12. FUTURE SIDEWALK, N.L.C.
 - 13. FUTURE CROSSWALK, N.L.C.
 - 14. FUTURE 10'x40' LANDSCAPE ISLAND, N.L.C.
 - 15. TEMPORARY BASE COURSE ACCESS ROAD AND/OR PARKING AREA PER SECTION ON SHEET GN-C-M001.
 - 16. CONSTRUCT 8'x24' CONCRETE CUT-OFF WALL PER COA STD DWG 2412.
 - 17. CONSTRUCT TEMPORARY ASPHALT CURB PER COA STD DWG 2415.
 - 18. CONCRETE LANDING AT DOOR, SEE ARCHITECTURAL PLANS.
 - 19. CONSTRUCT WHEEL CHAIR RAMP PER DETAIL ON SHEET GN-C-M001.
 - 20. CONCRETE PAVEMENT SECTION PER DETAIL ON SHEET GN-C-M001.
 - 21. STORM DRAINAGE PONDING, SEE CIVIL DRAWINGS.
 - 22. ACCESSIBLE PARKING SPACES, PAINT INTERNATIONAL SYMBOL ON ASPHALT SURFACE (BLUE) INSTALL INTERNATIONAL SIGN ON POST PER DETAIL ON SHEET GN-C-M001.
 - 23. TEMPORARY CONSTRUCTION TRAILER LOCATION.
 - 24. 6' CONCRETE BUMPER, INSTALL PER MFG. RECOMMENDATIONS.
 - 25. 10 SPACE BICYCLE RACK PER DETAIL ON SHEET GN-C-M001.
 - 26. STOP SIGN.
 - 27. 6'x36' LANDSCAPE ISLAND PER DETAIL ON SHEET GN-C-M001.
 - 28. BRICK DRIVING SURFACE PER COA STD DWG 2412.
 - 29. ELECTRICAL EQUIPMENT - SEE ELECTRICAL.
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 - 33. 6' TALL WROUGHT IRON FENCE SEE DETAIL ON SHEET GN-C-M001.
 - 34. SCREEN WALL - SEE ARCHITECTURAL.
 - 35. RIP RAP RUNDOWN, SEE CIVIL.
 - 36. MOTORCYCLE PARKING SPACES (6 SPACES), INSTALL SIGNAGE PER DETAIL, SHEET GN-C-M001.
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 - 38. SCREEN WALL PER DETAIL ON SHEET GN-C-M001.
 - 39. LIGHT DUTY ASPHALT PAVEMENT SECTION PER DETAIL ON SHEET GN-C-M001.
 - 40. 84' LONG ROLLING WROUGHT IRON GATE.
 - 41. 6' TALL CHAIN LINK FENCE PER COA STD DWG 2252.
 - 42. 6' TALL 32' LONG, LOCKABLE ROLLING GATE, MATCH FENCE TYPE. INSTALL CONCRETE ROLLING SURFACE.
 - 43. 4' X 6' PRE-MANUFACTURED GUARDHOUSE ON CONC. PAD; REQUIRES POWER, TELECOM, AND NO PLUMBING.
 - 44. 48" WIDE, FULL HEIGHT TURNSTILE (SINGLE) WITH ADJOINING PASSAGE GATE, BOTH WITH ELECTRONIC CARD READER.
 - 45. CURB OPENING TO ALLOW STORM DRAINAGE, SEE CIVIL.
 - 46. INSTALL FACADE LIGHTING WITH A MAXIMUM OF 3 FOOT-CANDLES.
 - * NOT USED ON THIS SHEET.

- LEGEND**
- FUTURE WORK
 - NEW CONSTRUCTION
 - WORK BY OTHER PROJECT (N.L.C.)
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 - PROPERTY BOUNDARY
 - RETAINING WALL, SEE CIVIL DRAWINGS
 - PORTLAND CEMENT CONCRETE PAVEMENT
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NOTE:
ADDITIONAL BUILDINGS AT MESA DEL SOL WILL REQUIRE NEW ELECTRIC FACILITIES TO BE DEVELOPED.

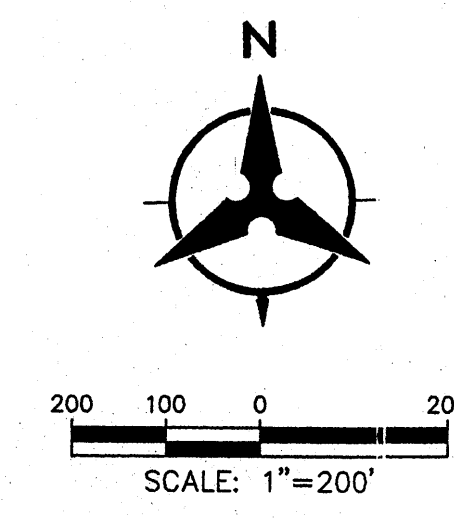
Bohannon & Huston Courtney 7500 Jefferson St NE Albuquerque, NM 87109-4335 ENGINEERING & SPATIAL DATA & ADVANCED TECHNOLOGIES		CH2MHILL Spartanburg, South Carolina		SHEET TITLE PHASE 1 CIVIL & SITE PLAN DRAWINGS CONCEPTUAL SITE LAYOUT		JOB NAME SCHOTT solar SUN ReMo ALBUQUERQUE, NEW MEXICO		JOB NO. 366450 REV. NO. FILENAME SCALE 1"=50'		DWG. NO. GN-C-007	
NO.	DATE	REVISION	BY	CK.	APPR.						

DESIGNED BY
CHECKED BY
APPR. BY

SEPTEMBER 22, 2008

Drawing File = P:\080352\csp\general\TCL-007.dwg
Created At: 9/18/2008 10:00 AM
User: JH

LOREIS_FRIEZE, Architectural CL 30 x 42 in.



SOLAR RECEIVER BUILDING = 121,810 SQ FT
MODULES BUILDING = 55,105 SQ FT

(PARKING CALCULATIONS BASED ON PHASE 1 RECEIVER AND MODULE BUILDING)

1. PARKING CAPACITY:
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PARKING SPACES REQUIRED: 222 PARKING SPACES
PARKING SPACES PROVIDED: 222 PARKING SPACES (3 FULL SIZE CONVERTED TO 6 MOTORCYCLE SPACES)
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<u>Drawing Number</u>	<u>Description</u>
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GN-E-121	Site Lighting Overall Calc. Grid

Approved for compliance with PC Zoning Level "A" and Level "B" Plans and compliance with the Design Standards of the Mesa del Sol Employment Center Convenants, Conditions & Restrictions.

Architectural Review Committee
Mesa del Sol Employment Center
By: Carrie Blesiot
Carrie Blesiot, Administrator



RECEIVED

MAY 07 2009

HYDROLOGY
SECTION

SEPTEMBER 22, 2008

REV. NO.

100

DRG. NO.
GN-C-003

ON C 003

FS1ZE, Architectural EI, 30 x 42 in.

100

A	09-22-08	FINAL SITE PLAN SUBMITTAL	RWB	JLM	
NO	DATE	REVISION	BY	CHK	ISSUED

Bohannon ▲ Huston
 Courtyard | 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

DESIGNED BY
CHECKED BY
APPR. BY

CH2MHILL

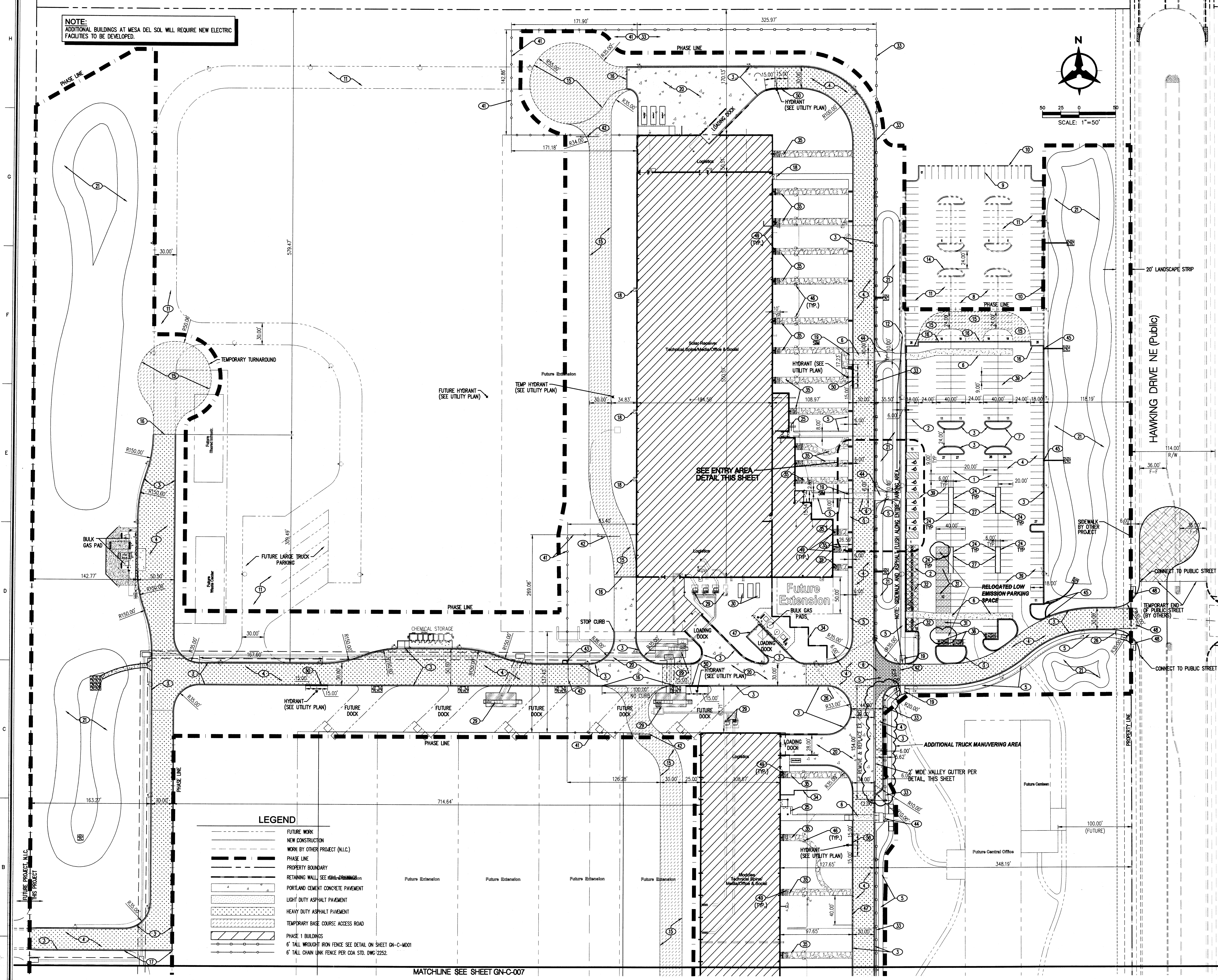
Spartanburg, South Carolina

SHEET TITLE	OVERALL SITE PLAN
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JOB NAME **SCHOTT**
solar
SUN ReMo
ALBUQUERQUE, NEW MEXICO

JOB NO. 366450	REV. NO.
FILENAME	
SCALE 1"=100'	DWG. NO. GN-C-003

NOTE:
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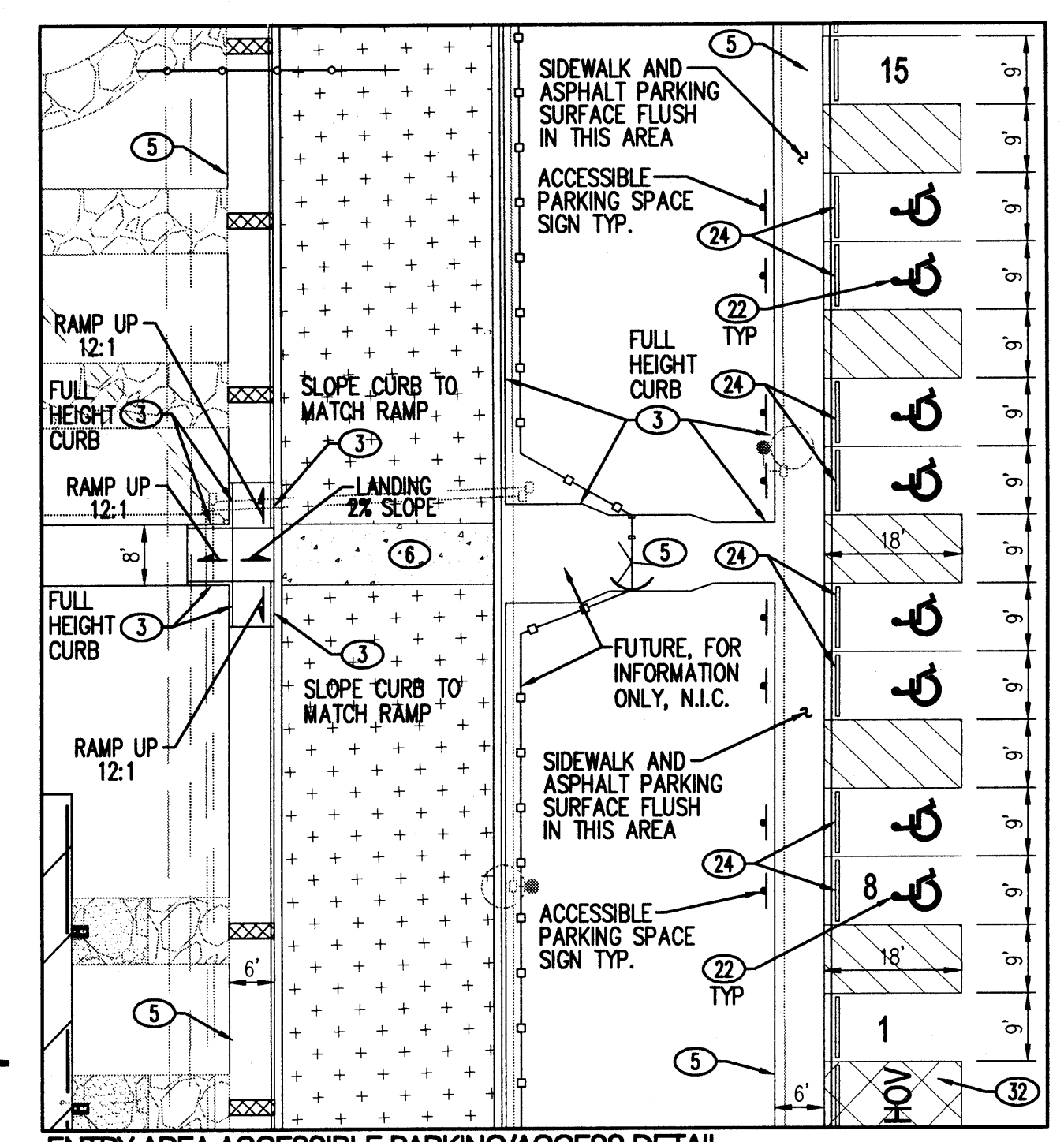
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- FUTURE WORK
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- TEMPORARY BASE COURSE ACCESS ROAD
- PHASE 1 BUILDINGS
- 6" TALL WROUGHT IRON FENCE SEE DETAIL ON SHEET GN-C-001
- 6" TALL CHAIN LINK FENCE PER COA STD. DWG 2252

MATCHLINE SEE SHEET GN-C-007

KEYED NOTES

- 9'x20' WHITE PAINTED PARKING SPACES (TYP.)
- 9'x18' WHITE PAINTED PARKING SPACES (TYP.)
- CONSTRUCT CONCRETE MEDIAN CURB & GUTTER PER COA STD DWG 2415.
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- 6" WIDE CONCRETE SIDEWALK (UNLESS NOTED OTHERWISE).
- TERRA COTTA COLORED, STAMPED CONCRETE, SCORFED SYSTEMS LITHOTEX PAVEMENTERS RANDOM INTERLOCKING VERMONT SLATE PATTERN (OR APPROVED EQUAL).
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- 8' CONCRETE BUMPER, INSTALL PER MFG. RECOMMENDATIONS.
- 10 SPACE BICYCLE RACK PER DETAIL ON SHEET GN-C-001.
- STOP SIGN.
- 6'x36" LANDSCAPE ISLAND PER DETAIL ON SHEET GN-C-001.
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- ELECTRICAL EQUIPMENT - SEE ELECTRICAL.
- MECHANICAL EQUIPMENT - SEE MECHANICAL.
- LOW EMISSION AND FUEL EFFICIENT VEHICLE PARKING (12 SPACES), INSTALL SIGNAGE PER DETAIL, SHEET GN-C-001.
- CAR POOL AND VAN POOL PREFERRED PARKING (12 SPACES), INSTALL SIGNAGE PER DETAIL, SHEET GN-C-001. PAINT HOV ON ASPHALT SURFACE.
- 6' TALL WROUGHT IRON FENCE SEE DETAIL ON SHEET GN-C-001.
- SCREEN WALL - SEE ARCHITECTURAL.
- RIP RAP RUNDOWN, SEE CIVIL.
- MOTORCYCLE PARKING SPACES (6 SPACES), INSTALL SIGNAGE PER DETAIL, SHEET GN-C-001.
- SIGN/SEAT WALL PER DETAIL ON SHEET GN-C-001. FUTURE, FOR INFO. ONLY, N.I.C.
- SCREEN WALL PER DETAIL ON SHEET GN-C-001.
- LIGHT DUTY ASPHALT PAVEMENT SECTION PER DETAIL ON SHEET GN-C-001.
- 84" LONG ROLLING WROUGHT IRON GATE.
- 6' TALL CHAIN LINK FENCE PER COA STD. DWG 2252.
- 6' TALL 32' LONG, LOCKABLE ROLLING GATE, MATCH FENCE TYPE, INSTALL CONCRETE ROLLING SURFACE.
- 4' x 6' PRE-MANUFACTURED GUARDHOUSE ON CONC. PAD, REQUIRES POWER, TELECOM, AND NO PLUMBING.
- 48" WIDE, FULL HEIGHT TURNSTILE (SINGLE) WITH ADJOINING PASSAGE GATE, BOTH WITH ELECTRONIC CARD READER.
- CURB OPENING TO ALLOW STORM DRAINAGE, SEE CIVIL.
- INSTALL FACADE LIGHTING WITH A MAXIMUM OF 3 FOOT-CANDLES.
- * NOT USED ON THIS SHEET.



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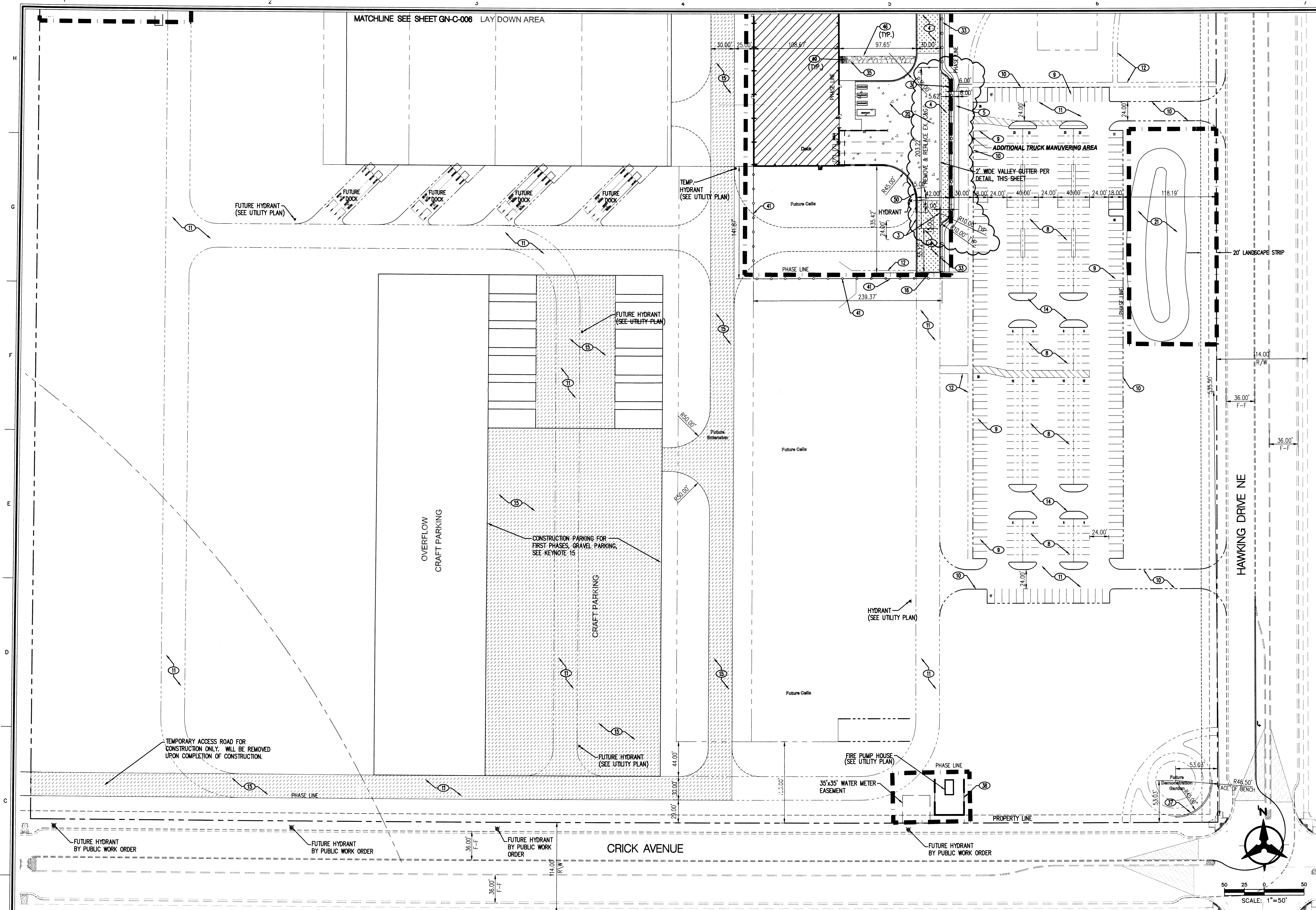
CH2MHILL
Spartanburg, South Carolina

PHASE 1
CIVIL & SITE PLAN DRAWINGS
CONCEPTUAL SITE LAYOUT

SCHOTT solar
SUN ReMo
ALBUQUERQUE, NEW MEXICO

RECEIVED
MAY 07 2009
HYDROLOGY SECTION
366450
1"=50'
GN-C-006
SEPTEMBER 22, 2008

Drawing File = P:\080352\cib\General\TOL-006.dwg
Printed at 5:00pm on May 06, 2009 by rhomer



- KEYED NOTES**
- 1. 9'x20' WHITE PAINTED PARKING SPACES (TYP).
 - 2. 9'x18' WHITE PAINTED PARKING SPACES (TYP).
 - 3. CONSTRUCT CONCRETE MEDIAN CURB & GUTTER PER COA STD DWG 2415.
 - 4. HEAVY DUTY ASPHALT PAVEMENT SECTION PER DETAIL ON SHEET GN-C-M001.
 - 5. 6' WIDE CONCRETE SIDEWALK (UNLESS NOTED OTHERWISE).
 - 6. TERRA COTTA COLORED, STAMPED CONCRETE. SCOFIELD SYSTEMS LITOTEX PAVEDRAFTERS RANDOM INTERLOCKING VERMONT SLATE PATTERN (OR APPROVED EQUAL).
 - 7. 10'x40' LANDSCAPE ISLAND, SEE DETAIL ON SHEET GN-C-M001.
 - 8. FUTURE 9'x20' PARKING SPACES (TYP), N.I.C.
 - 9. FUTURE 9'x18' PARKING SPACES (TYP), N.I.C.
 - 10. FUTURE CONCRETE MEDIAN CURB & GUTTER, N.I.C.
 - 11. FUTURE ASPHALT PAVEMENT, N.I.C.
 - 12. FUTURE SIDEWALK, N.I.C.
 - 13. FUTURE CROSSWALK, N.I.C.
 - 14. FUTURE 10'x40' LANDSCAPE ISLAND, N.I.C.
 - 15. TEMPORARY BASE COURSE ACCESS ROAD AND/OR PARKING AREA PER SECTION ON SHEET GN-C-M001.
 - 16. CONSTRUCT 8'x24" CONCRETE CUT-OFF WALL PER COA STD DWG 2412.
 - 17. CONSTRUCT TEMPORARY ASPHALT CURB PER COA STD DWG 2415.
 - 18. CONCRETE LANDING AT DOOR, SEE ARCHITECTURAL PLANS.
 - 19. CONSTRUCT WHEEL CHAIR RAMP PER DETAIL ON SHEET GN-C-M001.
 - 20. CONCRETE PAVEMENT SECTION PER DETAIL ON SHEET GN-C-M001.
 - 21. STORM DRAINAGE PONDING, SEE CIVIL DRAWINGS.
 - 22. ACCESSIBLE PARKING SPACES, PAINT INTERNATIONAL SYMBOL ON ASPHALT SURFACE (BLUE) INSTALL INTERNATIONAL SIGN ON POST PER DETAIL ON SHEET GN-C-M001.
 - 23. TEMPORARY CONSTRUCTION TRAILER LOCATION.
 - 24. 8' CONCRETE BUMPER, INSTALL PER MFG. RECOMMENDATIONS.
 - 25. 10 SPACE BICYCLE RACK PER DETAIL ON SHEET GN-C-M001.
 - 26. STOP SIGN.
 - 27. 6'x36' LANDSCAPE ISLAND PER DETAIL ON SHEET GN-C-M001.
 - 28. BRICK DRIVING SURFACE PER COA STD DWG 2412.
 - 29. ELECTRICAL EQUIPMENT - SEE ELECTRICAL.
 - 30. MECHANICAL EQUIPMENT - SEE MECHANICAL.
 - 31. LOW EMISSION AND FUEL EFFICIENT VEHICLE PARKING (12 SPACES), INSTALL SIGNAGE PER DETAIL, SHEET GN-C-M001.
 - 32. CAR POOL AND VAN POOL PREFERRED PARKING (12 SPACES), INSTALL SIGNAGE PER DETAIL, SHEET GN-C-M001. PAINT HOV ON ASPHALT SURFACE.
 - 33. 6' TALL WROUGHT IRON FENCE SEE DETAIL ON SHEET GN-C-M001.
 - 34. SCREEN WALL - SEE ARCHITECTURAL.
 - 35. RIP RAP RUNDOWN, SEE CIVIL.
 - 36. MOTORCYCLE PARKING SPACES (6 SPACES), INSTALL SIGNAGE PER DETAIL, SHEET GN-C-M001.
 - 37. SIGN/SEAT WALL PER DETAIL ON SHEET GN-C-M001. FUTURE, FOR INFO. ONLY; N.I.C.
 - 38. SCREEN WALL PER DETAIL ON SHEET GN-C-M001.
 - 39. LIGHT DUTY ASPHALT PAVEMENT SECTION PER DETAIL ON SHEET GN-C-M001.
 - 40. 84' LONG ROLLING WROUGHT IRON GATE.
 - 41. 6' TALL CHAIN LINK FENCE PER COA STD DWG 2252.
 - 42. 6' TALL 32" LONG, LOCKABLE ROLLING GATE, MATCH FENCE TYPE. INSTALL CONCRETE ROLLING SURFACE.
 - 43. 4' x 6' PRE-MANUFACTURED GUARDHOUSE ON CONC. PAD; REQUIRES POWER, TELECOM, AND NO PLUMBING.
 - 44. 48" WIDE, FULL HEIGHT TURNSTILE (SINGLE) WITH ADJOINING PASSAGE GATE, BOTH WITH ELECTRONIC CARD READER.
 - 45. CURB OPENING TO ALLOW STORM DRAINAGE, SEE CIVIL.
 - 46. INSTALL FACADE LIGHTING WITH A MAXIMUM OF 3 FOOT-CANDLES.
 - * NOT USED ON THIS SHEET.

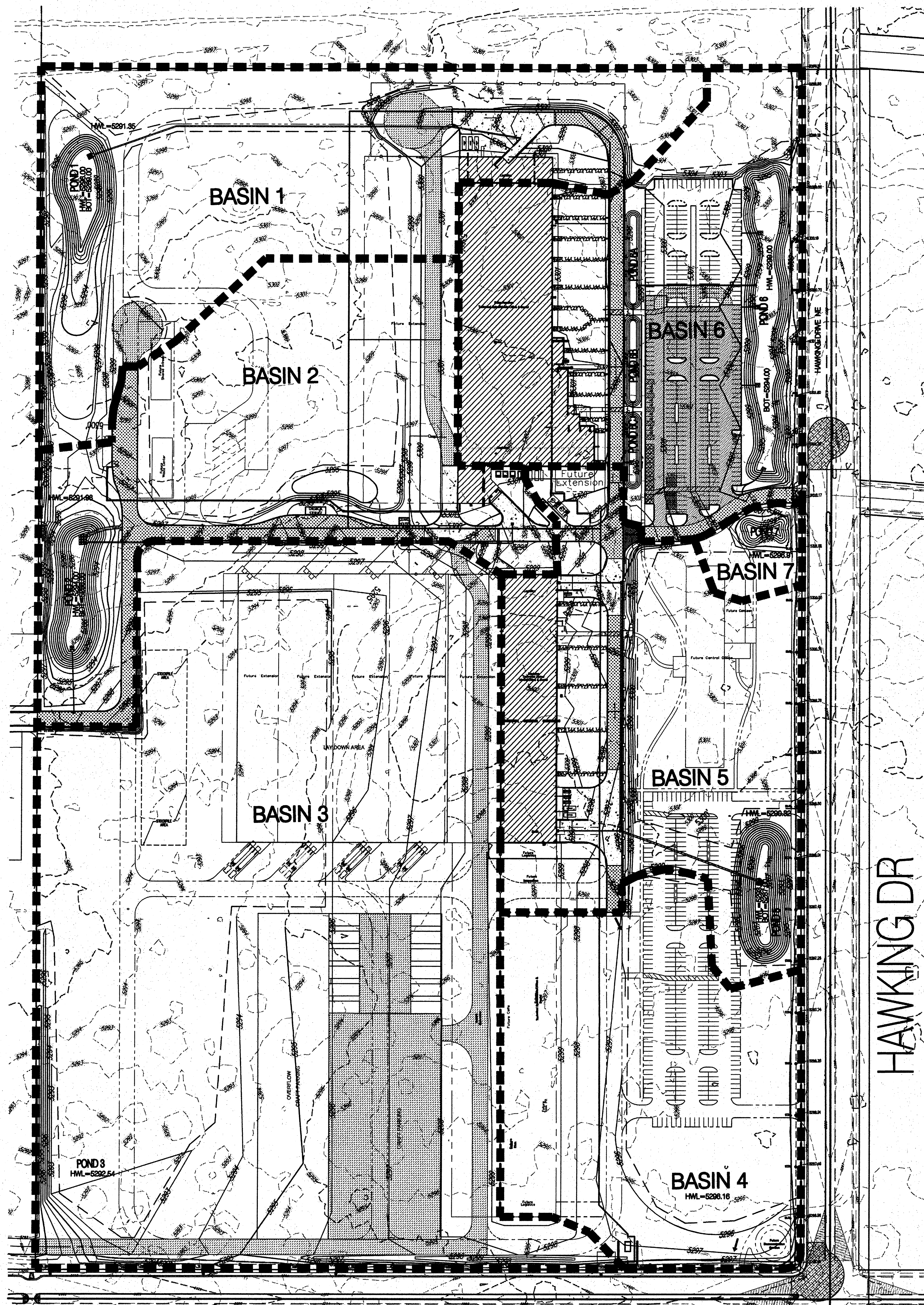
LEGEND

	FUTURE WORK
	NEW CONSTRUCTION
	WORK BY OTHER PROJECT (N.I.C.)
	PHASE LINE
	PROPERTY BOUNDARY
	RETAINING WALL, SEE CIVIL DRAWINGS
	PORTLAND CEMENT CONCRETE PAVEMENT
	LIGHT DUTY ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	TEMPORARY BASE COURSE ACCESS ROAD
	PHASE 1 BUILDINGS
	6' TALL WROUGHT IRON FENCE SEE DETAIL ON SHEET GN-C-M001
	6' TALL CHAIN LINK FENCE PER COA STD DWG 2252.

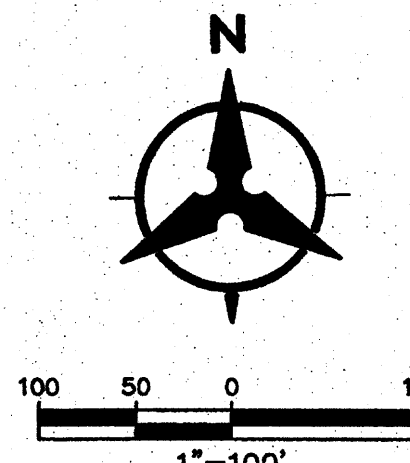
NOTE:
ADDITIONAL BUILDINGS AT MESA DEL SOL WILL REQUIRE NEW ELECTRIC FACILITIES TO BE DEVELOPED.

 Courtland 7500 Jefferson St. NE Albuquerque, NM 87109-4335 ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES		DESIGNED BY: CHECKED BY: APPR. BY:		 Spartanburg, South Carolina		SHEET TITLE PHASE 1 CIVIL & SITE PLAN DRAWINGS CONCEPTUAL SITE LAYOUT		JOB NAME SUN RoMo ALBUQUERQUE, NEW MEXICO		REV. NO. 366450 FILENAME MAY 07 2009 SCALE 1"=50' HYDROLOGY SECTION		REV. NO. GN-C-007	
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Printed at 5:03pm on May 06, 2009 by roanier



HAWKING DR



DRAINAGE MANAGEMENT PLAN-PHASE ONE

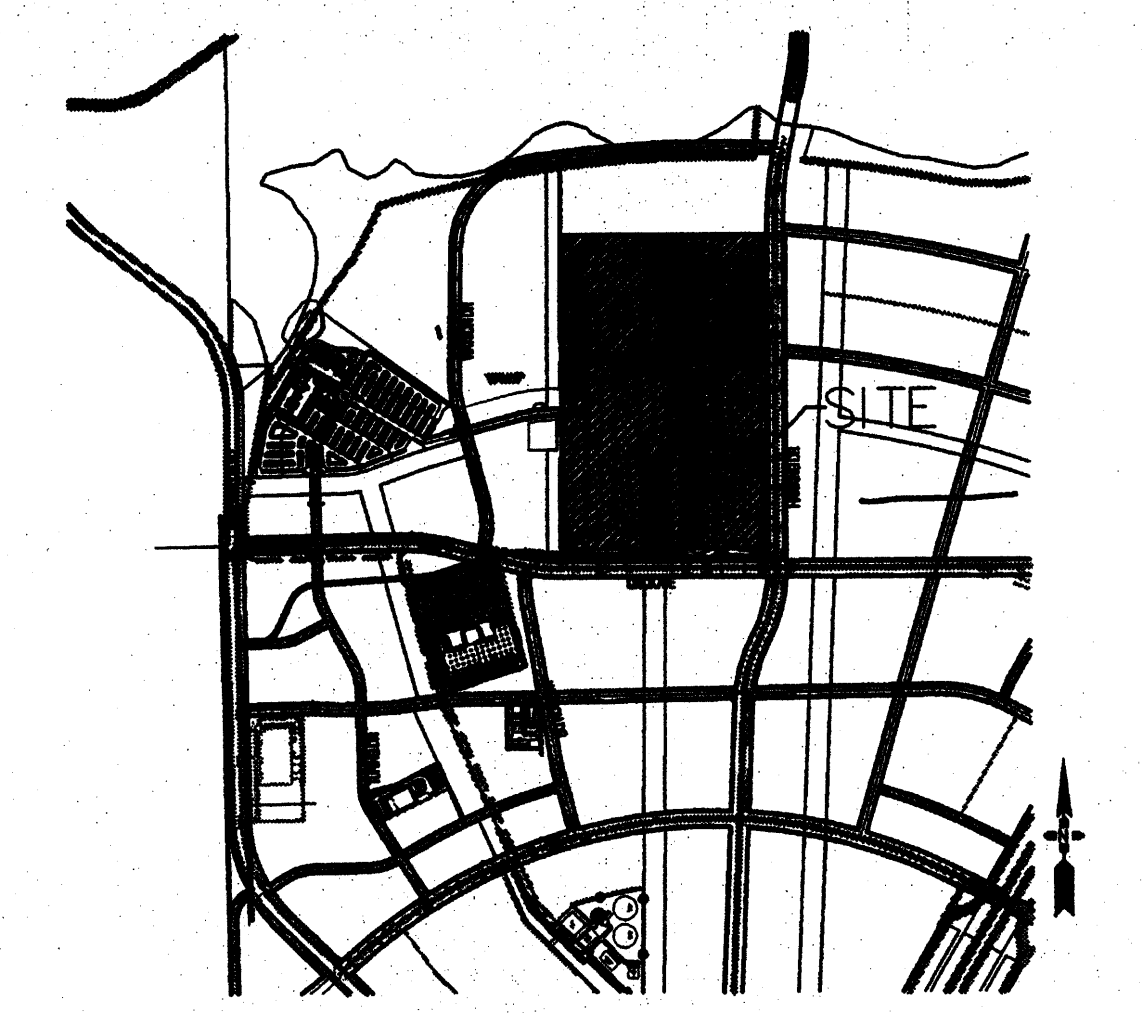
I. INTRODUCTION
The purpose of this submittal is to present a grading and drainage plan for the proposed Schott Solar development site. The site is located at the northern end of the Innovation Park within Mesa del Sol. There is vacant land surrounding the site with an existing drag strip to the north of the site. The entire site will be constructed in phases. This first phase will include 2 buildings along with parking and landscaped areas. Future phases will include additional building expansions, parking, and landscaping. This drainage management plan is in full accordance with the Drainage Area Schott Drainage Management Plan. This submittal is in support of Mesa del Sol ARC approval, DRB approval, rough grading approval, foundation permit approval, grading permit approval, and building permit submittal for Phase One.

II. EXISTING HYDROLOGIC CONDITIONS
The site is approximately 80 acres and is currently undeveloped. The land is relatively flat with slopes ranging from 0.3% to 3% with a general trend sloping from the north to south. There is sparse vegetation cover. According to the FEMA Community Map Panel #35001C0363E, the site is not located within a floodplain.

III. PROPOSED HYDROLOGIC CONDITIONS
The 100 yr. 10 day developed flows from the entire 80 acre site are retained onsite within retention ponds located on site. The site was divided into multiple basins (see basin table below) and drains both overland and through a system of storm drains to retention ponds. Each Basin has ponding which is designed to retain the volume of the 100 yr. 10 day storm. This DMP for Phase One shows that only a portion of the ponds one, two, and five will be built to accommodate developed flows for the Phase One build-out. The final pond for Basin 3 and Basin 4 will not be built as part of Phase One; but will retain flows in the naturally occurring ponding area resulting from the existing topography and the Phase One grading. The ponds in Basin 6 will be fully built-out as part of Phase One. Ponds three and four will be built at a later time to accommodate future phases.

IV. OFFSITE FLOWS
Bordering the south and east of the site are proposed roadways which are not part of this project. The roadways will not contribute any offsite flows to the Schott Solar site and mitigate any offsite flows from entering the site. Bordering the west of the site is vacant land which does not contribute any offsite flows. At the north of the Schott site, the existing drag strip slopes from east to west and does not contribute any offsite flows to the site.

V. CONCLUSION
The total flow generated on site will be retained on site. These flows were computed in accordance with section 22.2 of the Development Process Manual. This drainage management plan is capable of safely passing the 100 year storm and meets city requirements. With this submittal we are seeking Mesa del Sol ARC approval, DRB approval, rough grading approval and foundation permit approval for Phase One.



LOCATION MAP
ZONE ATLAS INDEX MAP Q-18

Mesa del Sol

SCHOTT SOLAR Phase One - Proposed Conditions Basin Data Table											
This table is based on the DMP Section 22.2, Zone: 2											
Basin ID	Area		Land Treatment Percentages				Q(100)		WT E	V(100-10yr)	
	(SQ. FT)	(AC.)	A	B	C	D	(cfs/ac)	(CFS)		(CF)	CF
BSN 1	405843	11.38	75.0%	15.0%	5.0%	5.0%	1.90	21.67	0.68	27874	31279
BSN 2	464759	10.67	65.0%	15.0%	5.0%	15.0%	2.22	23.66	0.84	32378	41673
BSN 3	1227296	28.17	30.0%	65.0%	5.0%	0.0%	2.11	59.36	0.72	73893	73893
BSN 4	375613	8.62	50.0%	0.0%	50.0%	0.0%	2.35	20.26	0.83	25980	25980
BSN 5	431163	9.90	30.0%	25.0%	15.0%	30.0%	2.92	28.89	1.16	41661	58908
BSN 6	459715	10.55	0.0%	0.0%	10.0%	90.0%	4.54	47.96	2.02	77424	132589
BSN 7	30221	0.69	65.0%	30.0%	5.0%	0.0%	1.86	1.29	0.64	1599	1599

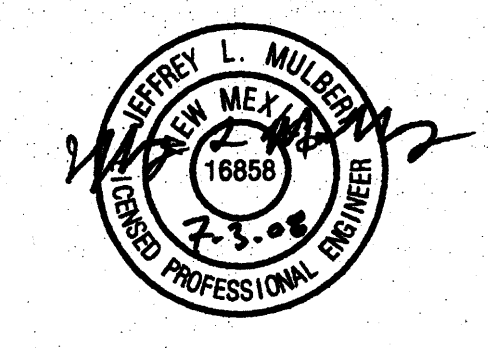
Pond	Volume Req'd (CF)	Volume Provided (CF)
Pond 1	31,279	170,802
Pond 2	41,673	54,075
Pond 3 (natural ponding area)	73,893	278,115
Pond 4 (natural ponding area)	25,980	158,786
Pond 5	58,908	61,636
Ponds 6+6A+6B+6C	132,589	209,029
Pond 7	1,599	6,458

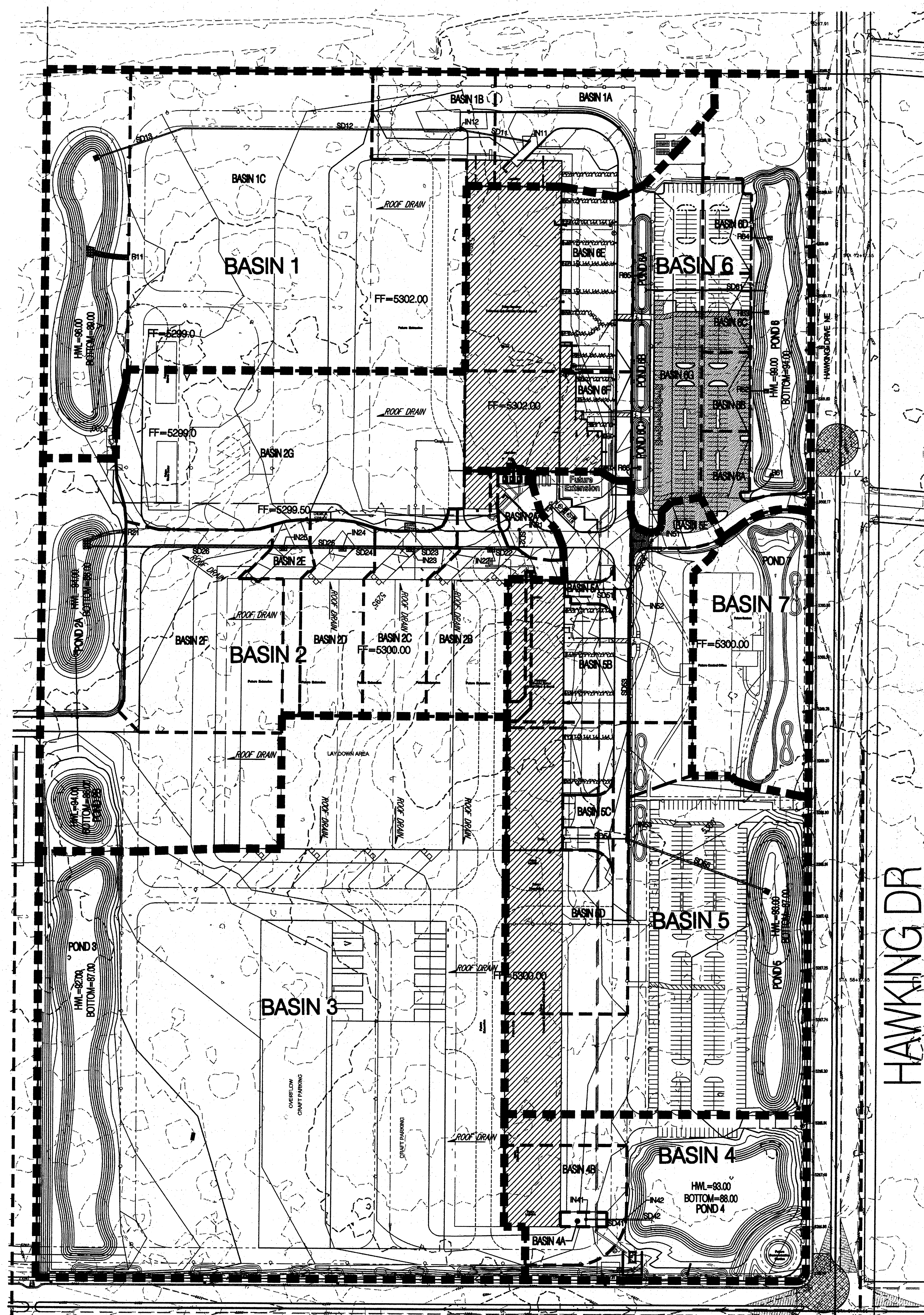
NOTE:
SEE OVERALL DRAINAGE MANAGEMENT
PLAN FOR PIPE SIZES AND BASIN DETAILS

LEGEND

- DRAINAGE AREA LINE
- - - PHASE LINE
- BASIN 3 BASIN ID
- PROPOSED STORM DRAIN
- PROPOSED STORM INLET
- ← EMERGENCY OVERFLOW ARROW

NOTE:
FINISHED FLOORS AND PROPOSED
GRADING SHOWN IS CONCEPTUAL





DRAINAGE MANAGEMENT PLAN

I. INTRODUCTION

The purpose of this submittal is to present a grading and drainage plan for the proposed Schott Solar development site. The site is located at the northern end of the Innovation Park within Mesa del Sol. There is vacant land surrounding the site with an existing drag strip to the north of the site. The entire site will be constructed in phases. The first phase will include 2 buildings along with parking and landscaped areas. Future phases will include additional building expansions, parking, and landscaping. This drainage management plan has been prepared for the full build out of the Schott Solar site.

II. EXISTING HYDROLOGIC CONDITIONS

The site is approximately 80 acres and is currently undeveloped. The land is relatively flat with a slopes of ranging from 0.3% to 3% with a general trend sloping from the north to south. There is sparse vegetation cover. According to the FEMA Community Map Panel #35001C0363E, the site is not located within a floodplain.

III. PROPOSED HYDROLOGIC CONDITIONS

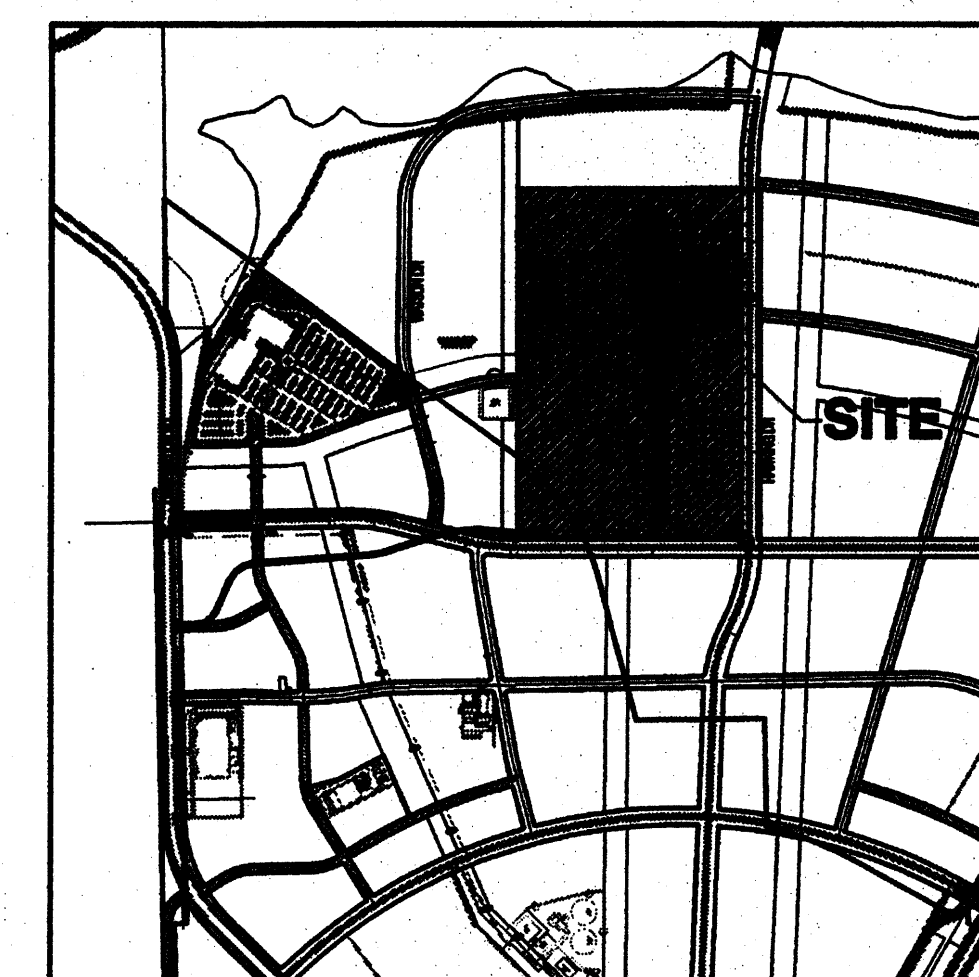
The 100 yr. 10 day developed flows from the entire 80 acre site are retained onsite within retention ponds located on site. The site was divided into multiple basins and drains both overland or through a system of storm drains to retention ponds. Each Basin has ponding which is designed to retain the volume of the 100 yr. 10 day storm. The two ponds in Basin 2 area hydraulically connected to function as one retention pond. Likewise, the ponds in Basin 6 are also hydraulically connected.

IV. OFFSITE FLOWS

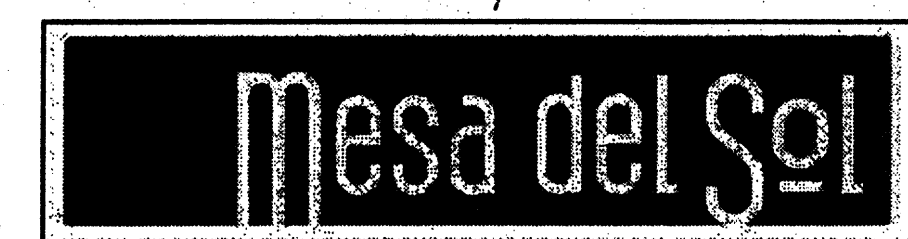
Bordering the south and east of the site are proposed roadways which are not part of this project. The roadways will not contribute any offsite flows to the Schott Solar site and mitigate any offsite flows from entering the site. Bordering the west of the site is vacant land which does not contribute any offsite flows. The future development of the vacant land (not part of this project) is proposed drainage ponds which would border the Schott site at the western side. At the north of the Schott site, the existing drag strip slopes from east to west and does not contribute any offsite flows to the site.

V. CONCLUSION

The total flow generated on site will be retained on site. These flows were computed in accordance with section 22.2 of the Development Process Manual. This drainage management plan is capable of safely passing the 100 year storm and meets city requirements.



LOCATION MAP
ZONE ATLAS INDEX MAP Q-16



SCHOTT SOLAR Proposed Conditions Basin Data Table											
This table is based on the DPM Section 22.2, Zone: 2											
Basin	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages				Q(100)	Q(100)	WTE	V(100-4hr)	V(100-10day)
ID			A	B	C	D	(cfs/ac.)	(CFS)	(Inches)	(CF)	CF
BSN 1	783028	17.98	0.0%	10.0%	0.0%	90.0%	4.46	80.14	1.99	129591	223554
BSN 2	481534	11.05	0.0%	10.0%	0.0%	90.0%	4.46	49.28	1.99	79694	137478
BSN 3	896901	20.59	0.0%	10.0%	0.0%	90.0%	4.46	91.79	1.99	148437	256065
BSN 4	183005	4.20	0.0%	10.0%	0.0%	90.0%	4.46	18.73	1.99	30267	52248
BSN 5	582677	13.38	0.0%	10.0%	0.0%	90.0%	4.46	59.63	1.99	96433	166354
BSN 6	445280	10.22	0.0%	10.0%	0.0%	90.0%	4.46	45.57	1.99	73694	127127
BSN 7	112188	2.58	0.0%	10.0%	0.0%	90.0%	4.46	11.48	1.99	18567	32030

Basin	Pond	Volume Req'd (CF)	Volume Provided (CF)
BSN 1	Pond 1	223,554	242,380
BSN 2	Ponds 2A+2B	137,478	167,394
BSN 3	Pond 3	256,065	286,705
BSN 4	Pond 4	52,248	216,939
BSN 5	Pond 5	166,354	168,867
BSN 6	Ponds 6+6A+6B+6C	127,127	187,020
BSN 7	Pond 7	32,030	35,613

STORM DRAIN PIPE TABLE						
PIPE #	Basin/SD	Contributing Basin Area (SF)	Size In.	Slope	Capacity* cfs	ACTUAL FLOW cfs
BASIN 1						
SD11	1A	85239	24	0.50%	16.00	8.73
SD12	1B	43139	24	0.50%	16.00	13.14
SD13	SD12	128378	24	0.50%	16.00	13.14
BASIN 2						
SD21	2A	14552	12	0.77%	3.13	1.49
SD22	SD21	14552	18	0.75%	9.10	1.49
SD23	2B	64998	18	0.75%	9.10	8.14
SD24	2C	47432	24	0.75%	19.59	13.00
SD25	2D	46249	24	0.76%	19.72	17.74
SD26	2E	19324	24	0.77%	19.85	19.72
BASIN 4						
SD41	4A	2520	18	2.60%	16.94	0.27
SD42	4B	46975	30	2.60%	66.14	4.81
BASIN 5						
SD51	5A	4400	12	1.00%	3.56	0.47
SD52	5E	11251	12	0.50%	2.52	1.15
SD53	5B	135187	24	0.50%	16.00	15.47
SD54	5C	11050	12	0.50%	2.52	1.19
SD55	5D	137634	30	0.60%	31.77	30.75
BASIN 6						
SD61	6E,6F,6G	271184	18	0.92%	9.71	9.88

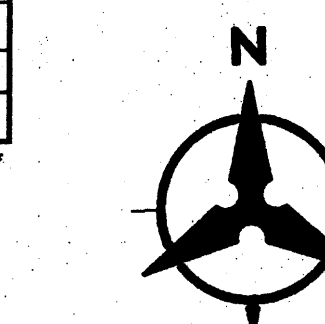
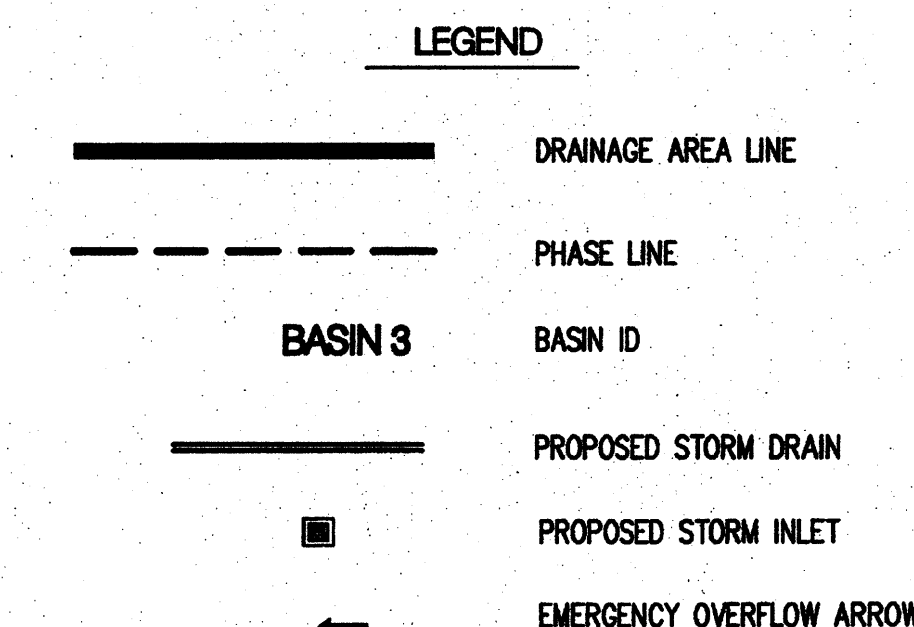
Capacity Based on Manning's Eq w/ N=0.013 - *
Capacity Based on Submitted Drainage Structure Analyzer Report - *
Flow Based on Submitted AHYMO Report - *

INLET TABLE				
Inlet #	Inlet Type	Actual Flow	Avail Head ft	Capacity CFS
BASIN 1				
IN11	1-SGL COA TYPE D*	8.73	0.75	13.89
IN12	1-SGL COA TYPE D*	4.42	0.75	13.89
BASIN 2				
IN21	1-SGL COA TYPE D*	1.49	0.50	7.96
IN22	1-SGL COA TYPE D*	6.65	0.50	7.96
IN23	1-SGL COA TYPE D*	4.86	0.50	7.96
IN24	1-SGL COA TYPE D*	4.74	0.50	7.96
IN25	1-SGL COA TYPE D*	1.98	0.50	7.96
BASIN 4				
IN41	1-SGL COA TYPE D*	0.27	0.50	7.96
IN42	1-SGL COA TYPE D*	4.81	0.50	7.96
BASIN 5				
IN51	1-SGL COA TYPE D*	1.15	0.50	7.96
IN52	1-SGL COA TYPE C*	13.84	0.83	15.50
IN53	1-SGL COA TYPE C*	14.09	0.83	15.50

* - INLET IN SUMP CONDITION

CONCRETE RUNDOWN TABLE									
Rundown #	Basin ID	Contributing	Rundown/Weir Type	Actual Flow	Min Weir** Length ft	Channel Width ft	Channel Height ft	Minimum Slope	Capacity* CFS
BASIN 1									
R11	1B	349958	Rectangular	35.83	15.00	13.00	0.50	0.75%	38.57
BASIN 2									
R21	2F & 2G	318134	Rectangular	32.57	14.00	5.00	0.50	4.47%	33.70
BASIN 6									
R61	6A	20504	Rectangular	2.21	1.00	1.00	0.50	2.52%	3.60
R62	6B	14459	Rectangular	1.56	1.00	1.00	0.50	8.73%	6.70
R63	6C	14459	Rectangular	1.56	1.00	1.00	0.50	6.83%	5.93
R64	6D	16840	Rectangular	1.82	1.00	1.00	0.50	5.95%	5.53
R65	6E	114356	Rectangular	12.34	5.00	2.00	0.50	6.83%	14.36
R66	6F	63597	Rectangular	6.86	3.00	2.00	0.50	5.95%	13.41

Weir Eq: $Q = 3.3P(\sqrt{h^3})$ - ** Capacity Based on Manning's Eq w/ N=0.013 - *



1"=100'

NOTE: FINISHED FLOORS AND PROPOSED GRADING SHOWN IS CONCEPTUAL.

Bohannon & Huston

Courtyard I 7500 Jefferson St NE Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

DESIGNED BY
CHECKED BY
APPR. BY

CH2MHILL

Spartanburg, South Carolina

SHEET TITLE

DRAINAGE AREA SCHOTT
DRAINAGE MANAGEMENT PLAN

JOB NAME

SCHOTT solar
SUN RoRo
ALBUQUERQUE, NEW MEXICO

JOB NO.

366450

REV. NO.

FILENAME

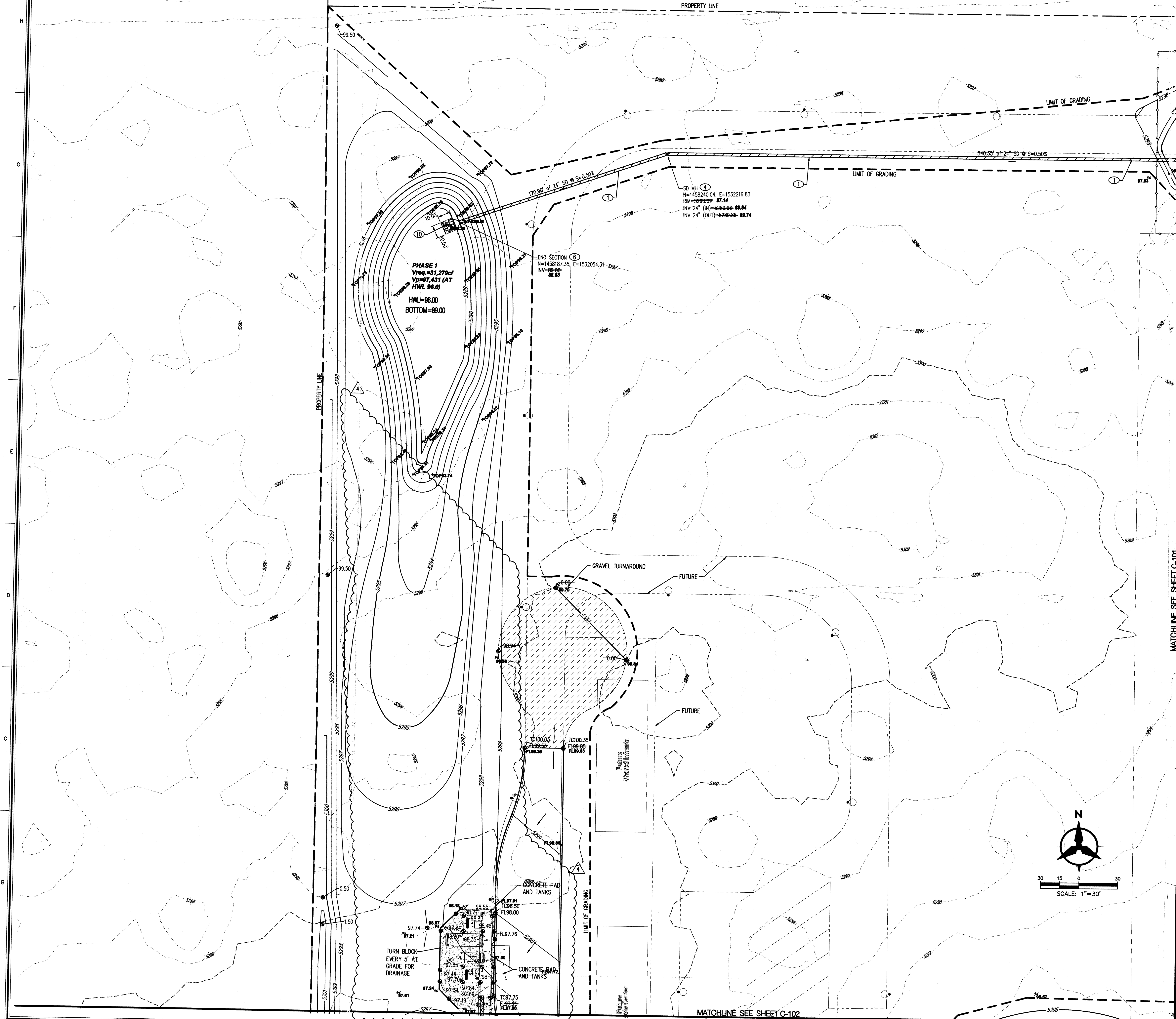
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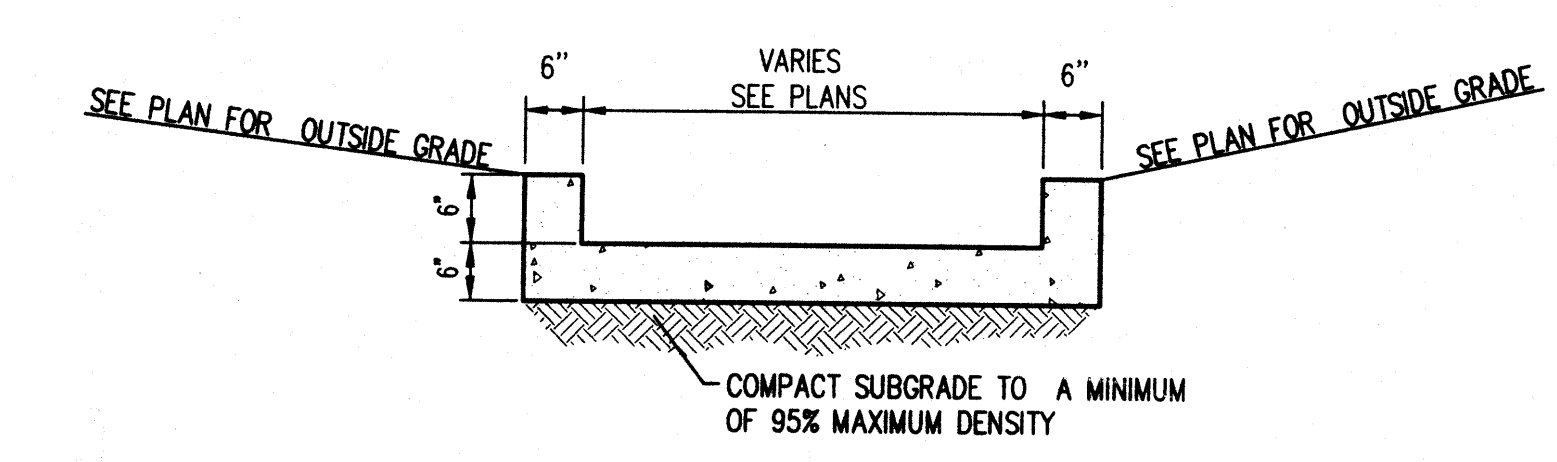
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DMP-OVERALL

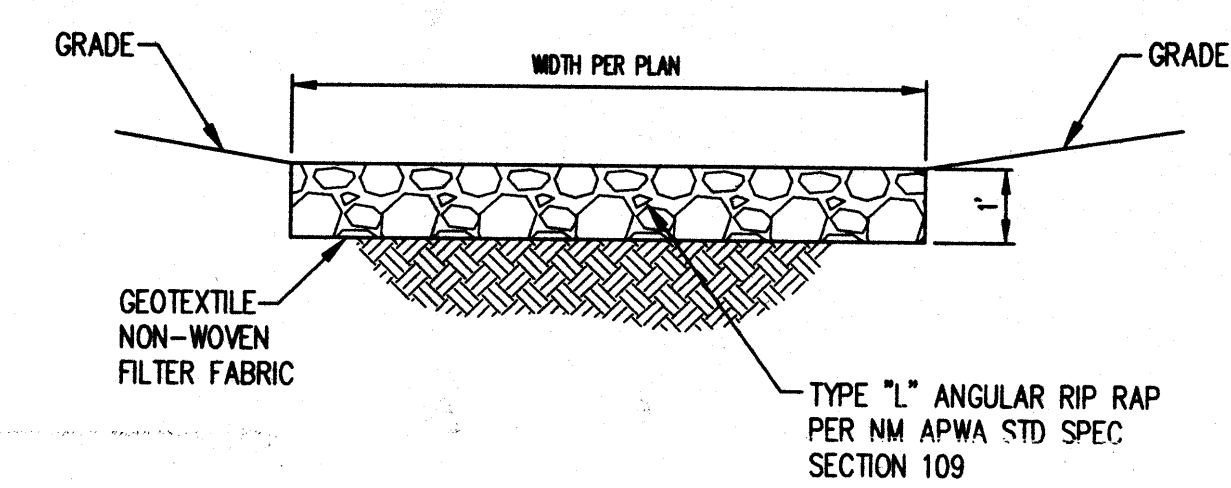
LOREIS_FISKE, Architectural EL 30 x 42 IN.



- GRADING KEYED NOTES**
1. INSTALL STORM DRAIN PIPE (HDPE N-12WT, OR APPROVED EQUAL), SIZE PER PLANS.
 2. INSTALL STORM DRAIN INLET TYPE "C" PER COA STD DWG 2205.
 3. INSTALL TYPE "D" STORM DRAIN INLET PER COA STD. DWG. 2206. TYPE "D" INLETS CAN BE SUBSTITUTED WITH NYLOPLAST ROAD AND HIGHWAY DRAINAGE INLET STRUCTURE W/ 2'x3' STEEL BAR GRATE (261.2 SQ. IN APPROXIMATE DRAIN AREA) H-25 RATED GRATE (OR APPROVED EQUAL).
 4. MANHOLES SHALL BE BUILT PER COA STD. DWG 2102 (TYPE "E") AND 2101 (TYPE "C").
 5. INSTALL PRE FABRICATED FITTING, SEE PLANS FOR SIZE.
 6. INSTALL CMP END SECTION, SEE PLANS FOR SIZE.
 7. INSTALL 10'x10' RIP RAP BLANKET PER DETAIL 2, SHEET GN-CD-100.
 8. INSTALL RIP RAP COBBLE SWALE. SEE SHEET GN-CD-102 FOR DETAILS.
 9. INSTALL 2' CURB OPENING PER DETAIL 1, SHEET GN-CD-103.
 10. INSTALL RIP RAP BLANKET PER DETAIL 2, SHEET GN-CD-100, SIZE PER PLANS.
 11. INSTALL STORM DRAIN PLUG, SIZE PER PLANS.
 12. INSTALL CONCRETE RUNDOWN PER DETAIL 1, SHEET GN-CD-100.
 13. INSTALL CMP END SECTION, SEE PLANS FOR SIZE.
 14. CONNECT TO EXISTING STORM DRAIN SUBROUT. CONTRACTOR TO VERIFY LOCATION AND INVERT; CONTACT ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES.
 15. WATER HARVESTING AREA. SEE SHEET L003 FOR DETAIL.
 16. INSTALL 24" SIDEWALK CULVERT PER COA STD DWG 2236.
 - * NOT USED ON THIS SHEET
- NOTE:
CONTOURS THROUGH RIPRAP SWALES DO NOT REFLECT ACTUAL SWALE GRADING.
PLEASE SEE SWALE DETAIL, SHEET GN-CD-102, AND SPOT ELEVATIONS FOR ACTUAL GRADING DETAILS.



1 CONCRETE RUNDOWN
N.T.S.



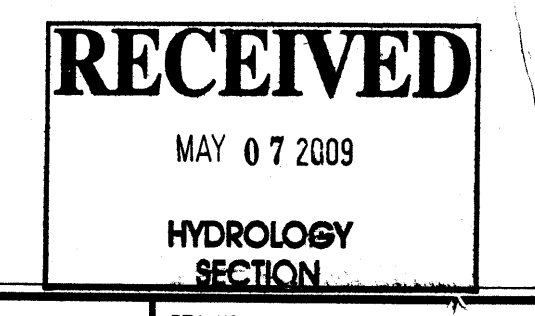
2 RIP RAP BLANKET DETAIL
N.T.S.

DRAINAGE CERTIFICATION

I, JEFFREY L. MULBERRY, NMPE 16858, OF THE FIRM BOHANNAN HUSTON INC., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED APRIL 17, 2009. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ROBERT GROMATZKY, NMPS 16488, OF THE FIRM BOHANNAN HUSTON INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON MAY 4TH, 2009 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR PERMANENT CERTIFICATE OF OCCUPANCY.

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DATE 5/6/09
JEFFREY L. MULBERRY, NMPE 16858



NO	DATE	REVISION	BY	CHK	APP
1	03-26-09	MISC. REVISIONS & CLARIFICATIONS THROUGH DC#27	RWB	JLM	JLM
2	10-10-08	MISC. REVISIONS & CLARIFICATIONS; FIELD CONSTRUCTION ISSUANCE	RWB	JLM	JLM
3	09-22-08	REVISIONS ISSUED WITH DC#S 9-12	RWB	JLM	JLM
4	08-15-08	REVISIONS ISSUED WITH DC#8	RWB	JLM	JLM
5	07-03-08	REVISIONS ISSUED THROUGH THE 07-03-08 IFC SET	RWB	JLM	JLM

Bohannon & Huston
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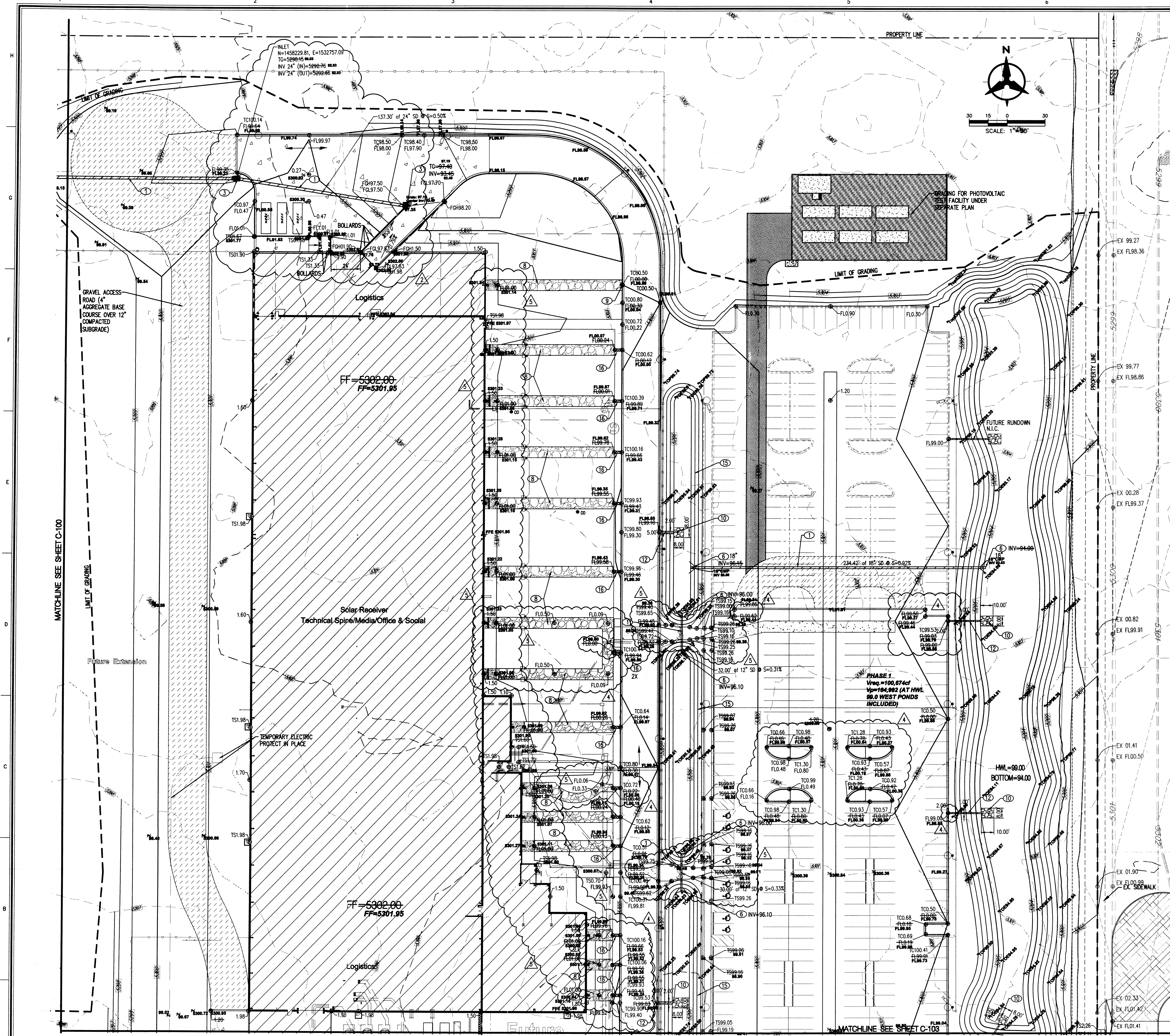
CHECKED BY _____
APPR. BY _____

CH2MHILL
Spartanburg, South Carolina

SHEET TITLE
**PHASE 1
CIVIL & SITE PLAN DRAWINGS
GRADING AND DRAINAGE PLAN**

JOB NAME
SCHOTT solar
SUN RoMo
ALBUQUERQUE, NEW MEXICO

JOB NO. 366450
FILENAME
SCALE 1"=30'
DWG. NO. GN-CD-100



GRADING KEYED NOTES

1. INSTALL STORM DRAIN PIPE (HOPE N-12W, OR APPROVED EQUAL), SIZE PER PLANS.
2. INSTALL STORM DRAIN INLET TYPE "C" PER COA STD DWG 2205.
3. INSTALL TYPE "D" STORM DRAIN INLET PER COA STD. DWG. 2206. TYPE "D" INLETS CAN BE SUBSTITUTED WITH NYLOPLAST ROAD AND HIGHWAY DRAINAGE INLET STRUCTURE W/ 2'x3' STEEL BAR GRATE (261.2 SQ. IN. APPROXIMATE DRAIN AREA) H-25 RATED GRATE (OR APPROVED EQUAL).
4. MANHOLES SHALL BE BUILT PER COA STD. DWG 2102 (TYPE "E") AND 2101 (TYPE "C").
5. INSTALL PRE FABRICATED FITTING, SEE PLANS FOR SIZE.
6. INSTALL CMP END SECTION, SEE PLANS FOR SIZE.
7. INSTALL 10'x10' RIP RAP BLANKET PER DETAIL 2, SHEET GN-CD-100.
8. INSTALL RIP RAP COBBLE SWALE. SEE SHEET GN-CD-102 FOR DETAILS.
9. INSTALL 2' CURB OPENING PER DETAIL 1, SHEET GN-CD-103.
10. INSTALL RIP RAP BLANKET PER DETAIL 2, SHEET GN-CD-100, SIZE PER PLANS.
11. INSTALL STORM DRAIN PLUG, SIZE PER PLANS.
12. INSTALL CONCRETE RUNDOWN PER DETAIL 1, SHEET GN-CD-100.
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14. CONNECT TO EXISTING STORM DRAIN SUBROUT. CONTRACTOR TO VERIFY LOCATION AND INVERT; CONTACT ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES.
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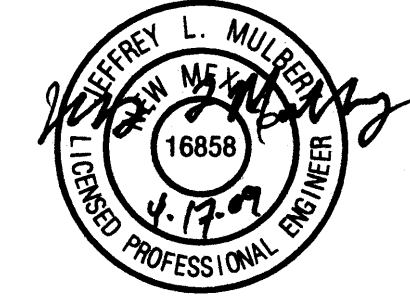
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DATE 5/6/09
JEFFREY L. MULBERRY, NMPE 16858



RECEIVED

MAY 07 2009

HYDROLOGY SECTION

NO.	DATE	REVISION	BY	CHK.	APPR.
5	03-26-09	MISC. REVISIONS & CLARIFICATIONS THROUGH DC#27	RWB	JLM	JLM
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1	07-03-08	REVISIONS ISSUED THROUGH THE 07-03-08 IFC SET	RWB	JLM	JLM

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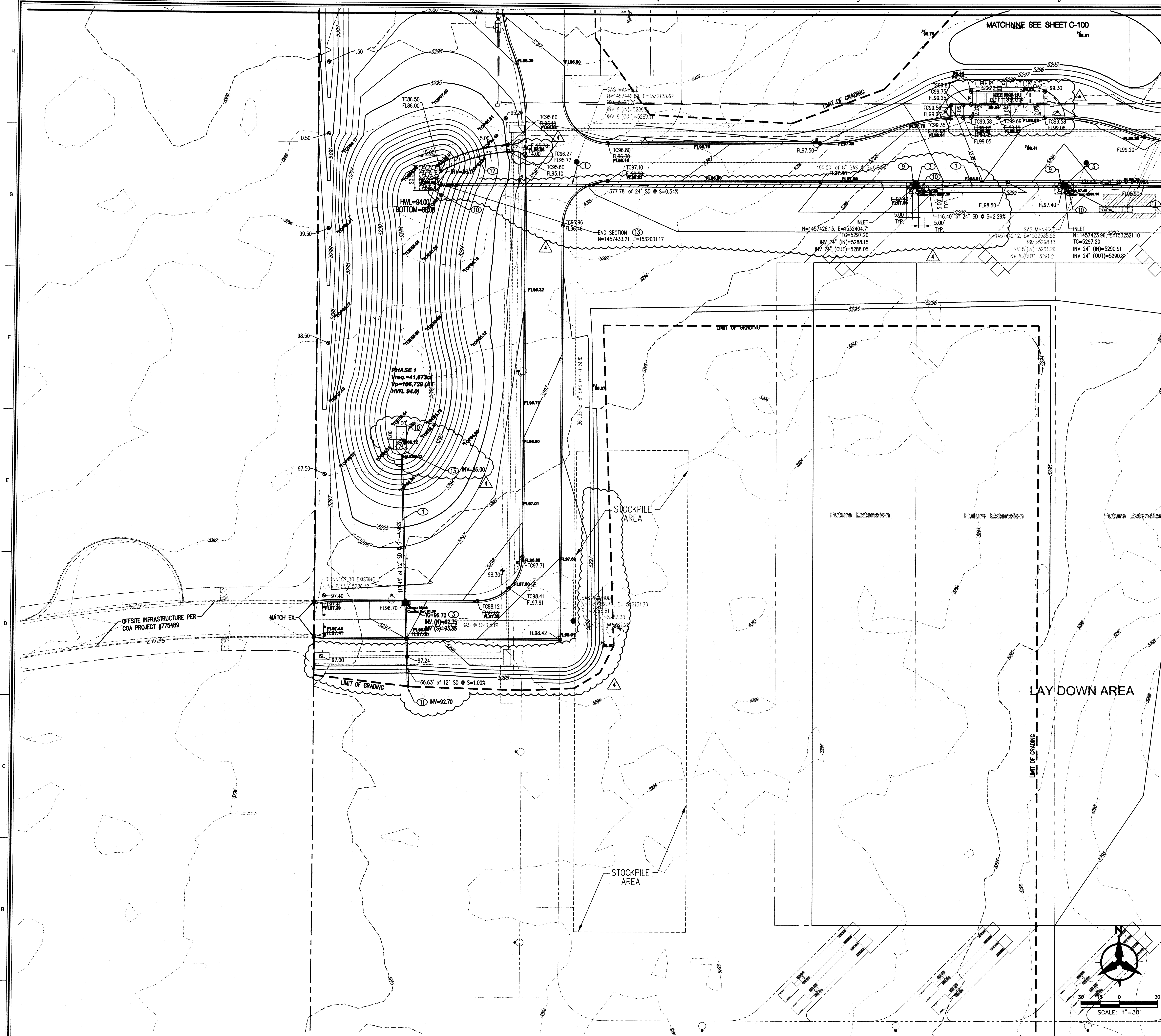
CH2MHILL

Spartanburg, South Carolina

SHEET TITLE
PHASE 1
CIVIL & SITE PLAN DRAWINGS
GRADING AND DRAINAGE PLAN

JOB NAME
SCHOTT solar
SUN ReMo
ALBUQUERQUE, NEW MEXICO

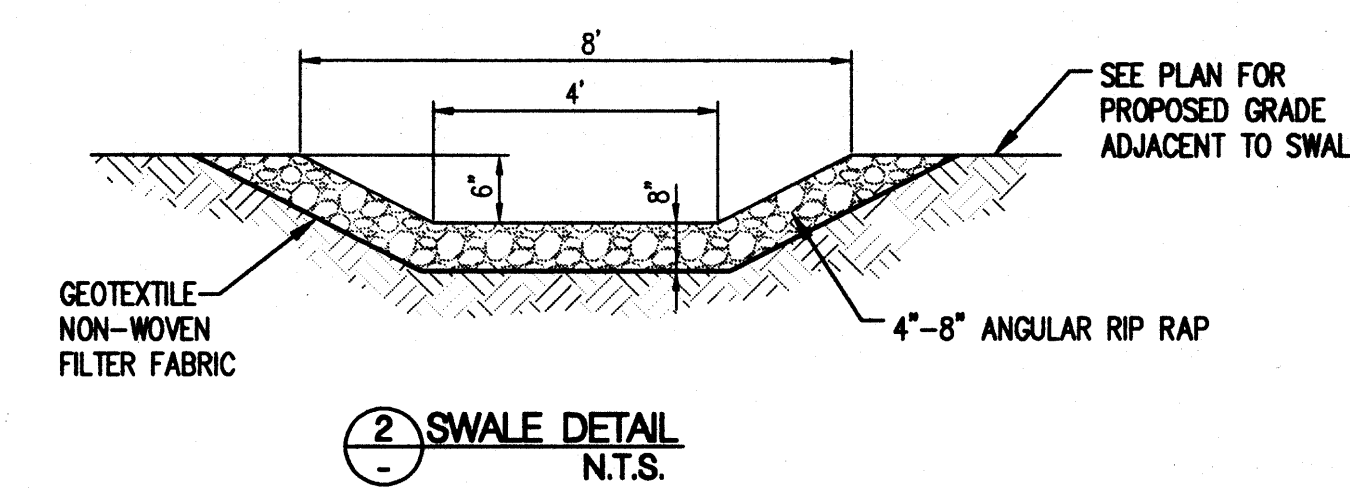
JOB NO.	366450	REV. NO.	
FILENAME		DWG. NO.	GN-CD-101
SCALE	1"=30'		



○ GRADING KEYED NOTES

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2. INSTALL STORM DRAIN INLET TYPE "C" PER COA STD DWG 2205.
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6. INSTALL CMP END SECTION, SEE PLANS FOR SIZE.
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JEFFREY L. MULBERRY
NMPE 16858
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HYDROLOGY
SECTION

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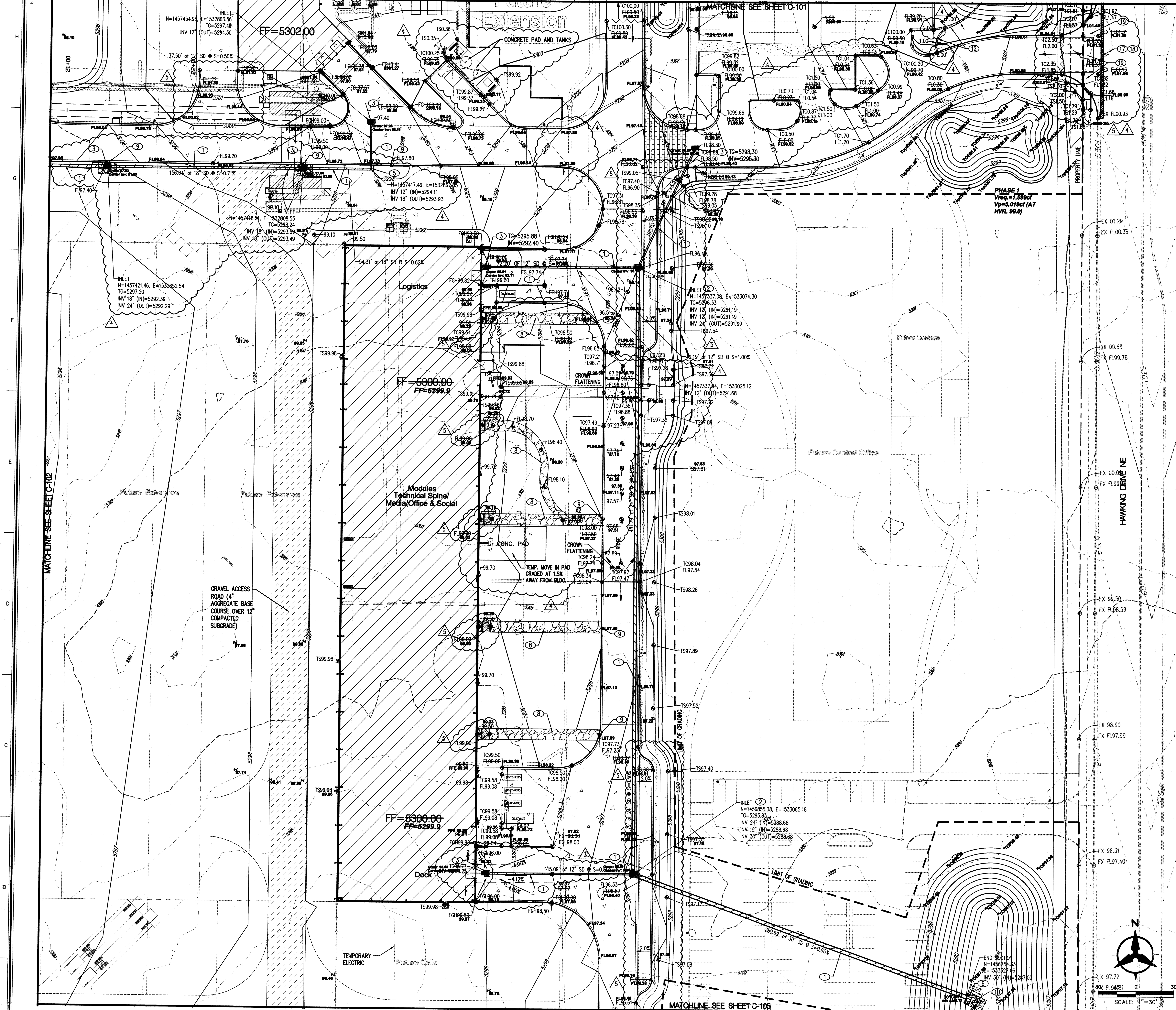
DESIGNED BY _____
CHECKED BY _____
APPR. BY _____

CH2MHILL
Spartanburg, South Carolina

SHEET TITLE
**PHASE 1
CIVIL & SITE PLAN DRAWINGS
GRADING AND DRAINAGE PLAN**

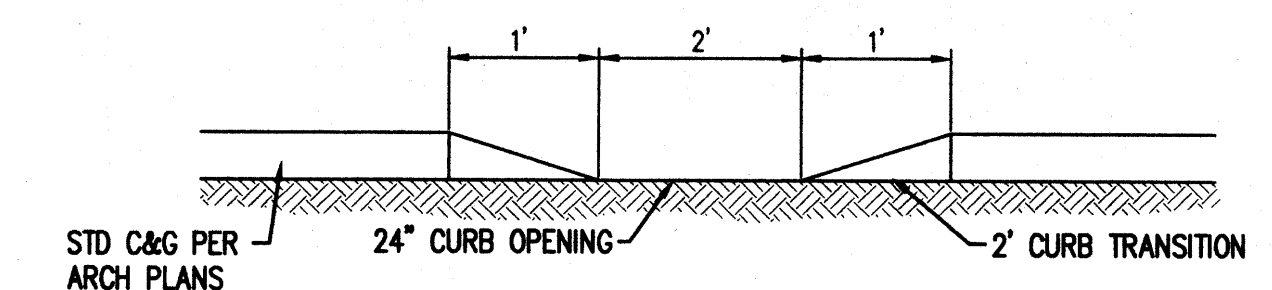
JOB NAME
SCHOTT solar
SUN ReMo
ALBUQUERQUE, NEW MEXICO

JOB NO. 366450
REV. NO. _____
FILENAME _____
SCALE 1"=30'
DWG. NO. GN-CD-102



- GRADING KEYED NOTES**
1. INSTALL STORM DRAIN PIPE (HPIPE N-12W, OR APPROVED EQUAL), SIZE PER PLANS.
 2. INSTALL STORM DRAIN INLET TYPE "C" PER COA STD DWG 2205.
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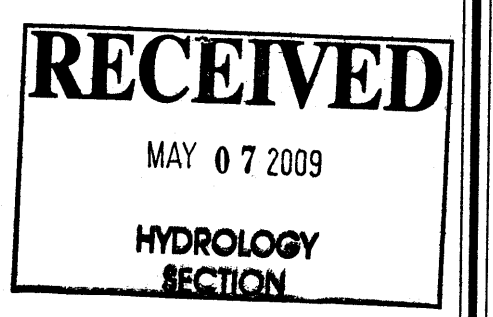


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JEFFREY L. MULBERRY
NMPE 16856
DATE 5/6/09



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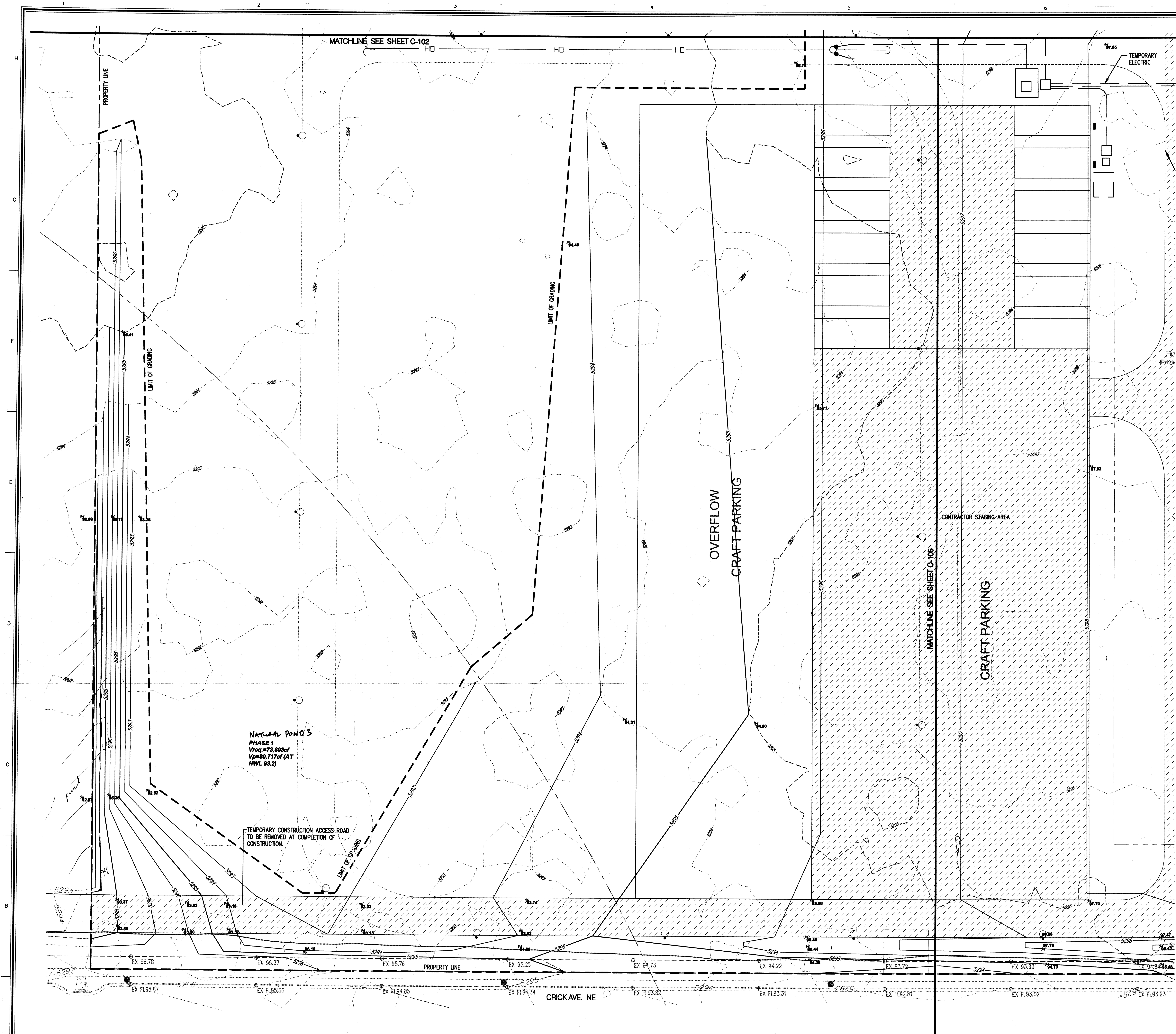
DESIGNED BY: _____
CHECKED BY: _____
APPROVED BY: _____

CH2MHILL
Spartanburg, South Carolina

SHEET TITLE: PHASE 1
CIVIL & SITE PLAN DRAWINGS
GRADING AND DRAINAGE PLAN

SCHOTT solar
SUN RoMo
ALBUQUERQUE, NEW MEXICO

JOB NO. 366450	REV. NO.
FILENAME	DWG. NO. GN-CD-103
SCALE 1"=30'	



GRADING KEYED NOTES

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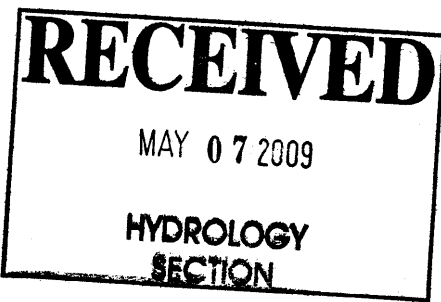
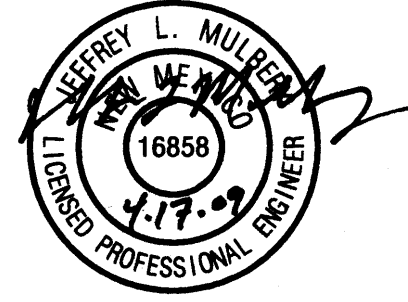
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Bohannon & Huston
Courtney | 7800 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

DESIGNED BY	
CHECKED BY	
APPR. BY	

CH2MHILL
Spartanburg, South Carolina

PHASE 1
CIVIL & SITE PLAN DRAWINGS
GRADING AND DRAINAGE PLAN

SCHOTT
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