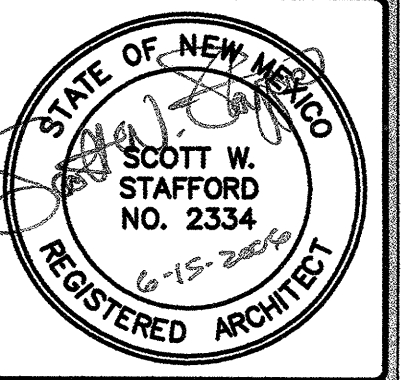


CONSTRUCTION OF THE NEW POLICE PISTOL COMPETITION RANGE + BUILDING "B" CITY OF ALBUQUERQUE ALBUQUERQUE, NEW MEXICO



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CIVIL ENGINEER

Bohannon & Huston

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

STRUCTURAL ENGINEER

Walla Structural Engineering
ENGINEERING LTD Civil Engineering
6100 Indian School Road NE • Suite 210
Albuquerque, New Mexico 87110
881-3008 • Facsimile 881-4025

MECHANICAL ENGINEER

CENTERS CONSULTING P.A.
HVAC FIRE PROTECTION PLUMBING DESIGN
2400 MILES ROAD SE
ALBUQUERQUE, NM 87106
PHONE: (505) 224-2770
FAX: (505) 224-9338

ELECTRICAL ENGINEER

Stone Electrical Design
Jeffrey A. Stone
Owner
2325 San Pedro Dr. NE
Suite 20
Albuquerque, NM 87110
Phone: (505) 888-0265
Fax: (505) 888-4337
E-mail: stoneelectrical@aol.com

GRAPHIC LEGEND

INTERIOR ELEVATION SYMBOL	KEYED NOTE
41/42/21 DETAIL AND SHEET NUMBER	21 WINDOW TYPE SYMBOL
DOOR SYMBOL	21 WINDOW TYPE
21 DOOR NUMBER	21 DETAIL SYMBOL
PARTITION SYMBOL	21 SHEET NUMBER
21 RIP, SHEET ADD	21 WALL SECTION SYMBOL
BUILDING SECTION SYMBOL	21 WALL SECTION REFERENCE
21 BUILDING SECTION REFERENCE	21 SHEET NUMBER

INDEX TO DRAWINGS

G001	TITLE SHEET
C101	GRADING AND DRAINAGE
C102	GRADING DETAILS AND NOTES
A100	SITE PLAN
A101	COMPETITION PLAN
A102	FLOOR PLAN, ELEVATIONS AND SECTIONS
A201	RESTROOM ELEVATIONS AND DETAILS
A501	PFC LAYOUT
A502	PFC DETAILS
A503	WINDOW AND DOOR DETAILS AND SCHEDULES
A501	MISC. DETAILS
S100	STRUCTURAL NOTES
S101	FOUNDATION PLAN
M101	MECHANICAL FLOOR PLAN
P101	PLUMBING FLOOR PLAN
E001	ELECTRICAL SITE PLAN
E101	POWER AND LIGHTING PLANS
E201	RISER DIAGRAM AND LEGEND
E301	SCHEDULES
E401	ELECTRICAL SPECIFICATIONS

LANDSCAPING NOTE:
THIS PROJECT IS IN OPEN SPACE AND ALL LANDSCAPING IS MAINTAINED AS NATURAL VEGETATION SURROUNDING THE RENOVATED AREAS

FOR INFORMATION ONLY:
INCLUDED IN THIS SET ARE THE EXISTING SURVEY AS PROVIDED BY SURVEYING CONTROL INC AND THE 5 YEAR MASTER PLAN.

PROJECT DESIGN DATA

PROJECT NAME: PFC RANGE AND BUILDING
CITY OF ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO

PROJECT ADDRESS: 160015 SHOOTING RANGE ACCESS ROAD
ALBUQUERQUE, NM 87114

APPLICABLE CODES: 2003 INTERNATIONAL BUILDING CODE
2003 UNIFORM PLUMBING CODE
2003 UNIFORM MECHANICAL CODE
2003 NATIONAL ELECTRICAL CODE
2003 INTERNATIONAL ENERGY CONSERVATION CODE
ICC / A.N.S.I. A-111 - 1998
2003 NEW MEXICO AMENDMENTS
CURRENT CITY OF ALBUQUERQUE AMENDMENTS

ZONED: BU-1 (ZONING MAP F3)

OCCUPANCY GROUP: A-3 (BUILDING B)
TRADE SHOW

OCCUPANT LOAD: 1500 GSF
1500 SF/15 SF NET (UNCONCENTRATED): 500

CONSTRUCTION TYPE: IIB

GENERAL NOTES

1. ALL REFERENCES TO THE BUILDING CODE OR BUILDING DEPARTMENT SHALL BE CONSTRUED TO MEAN THE RULES AND REGULATIONS OF THE CITY OF ALBUQUERQUE.
2. THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND TO VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING SITE. IN CASE OF DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS, THEY SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR CORRECTION. WORK DONE AFTER THE DISCOVERY OF DISCREPANCIES AND PRIOR TO RECEIPT OF WRITTEN APPROVAL FOR CORRECTION, SHALL BE AT THE CONTRACTOR'S RISK. NO ADDITION COST WILL BE ADDED TO THE PROJECT DUE TO THE CONTRACTOR'S OVERSIGHT IN VERIFICATION OF EXISTING CONDITIONS.
3. THE CONTRACTOR SHALL PERFORM HIS WORK SO THAT THERE IS A MINIMUM OF DISRUPTION CAUSED TO THOSE PORTIONS OF THE RANGE WHERE THERE IS NO WORK.
4. ALL REFUSE AND DEBRIS SHALL BE REMOVED FROM THE BUILDING AT THE END OF EACH WORK DAY AND SHALL BE PROPERLY DISPOSED OF OFF THE PROPERTY.
5. WORK FOR THIS PROJECT SHALL BE CARRIED OUT IN ACCORDANCE WITH STATE AND LOCAL CODES AND REQUIREMENTS OF ANY OTHER AGENCY HAVING JURISDICTION. IN ALL CASES, THE MOST RESTRICTIVE REQUIREMENT SHALL APPLY.
6. WHERE CONFLICTS OCCUR BETWEEN CONTRACT DRAWINGS, SPECIFICATIONS AND THE BUILDING CODE, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
7. DIMENSIONS HAVE PREFERENCE OVER SCALE.
8. ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE BEST ACCEPTED TRADE PRACTICES AND AS PER MANUFACTURER'S RECOMMENDATIONS.
9. THE GENERAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND THE CITY OF ALBUQUERQUE. THE WORK SHALL BE COORDINATED IN SUCH A MANNER THAT THE CONTRACTOR SHALL NOT DELAY OR INTERFERE WITH CARRYING FORWARD THE WORK OF OTHER CONTRACTORS AND THE CITY OF ALBUQUERQUE.
10. ALL EXITS SHALL BE KEPT READILY ACCESSIBLE AND UNOBSTRUCTED AT ALL TIMES.
11. ALL BUILDING PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE BUILDING PERMIT IS TO BE SECURED FROM THE CITY OF ALBUQUERQUE.
12. COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE RANGE MASTER.

PLUMBING REQUIREMENTS PER BUILDING:
250 WOMEN = 4 WC, 2 LAVS REQUIRED
4 WC, 2 LAVS PROVIDED
250 MEN = 2 WC, 2 LAVS REQUIRED
3 WC, 2 LAVS PROVIDED
1 UTILITY SINK REQUIRED / 1 PROVIDED
1 DRINKING FOUNTAIN REQUIRED / 1 PROVIDED

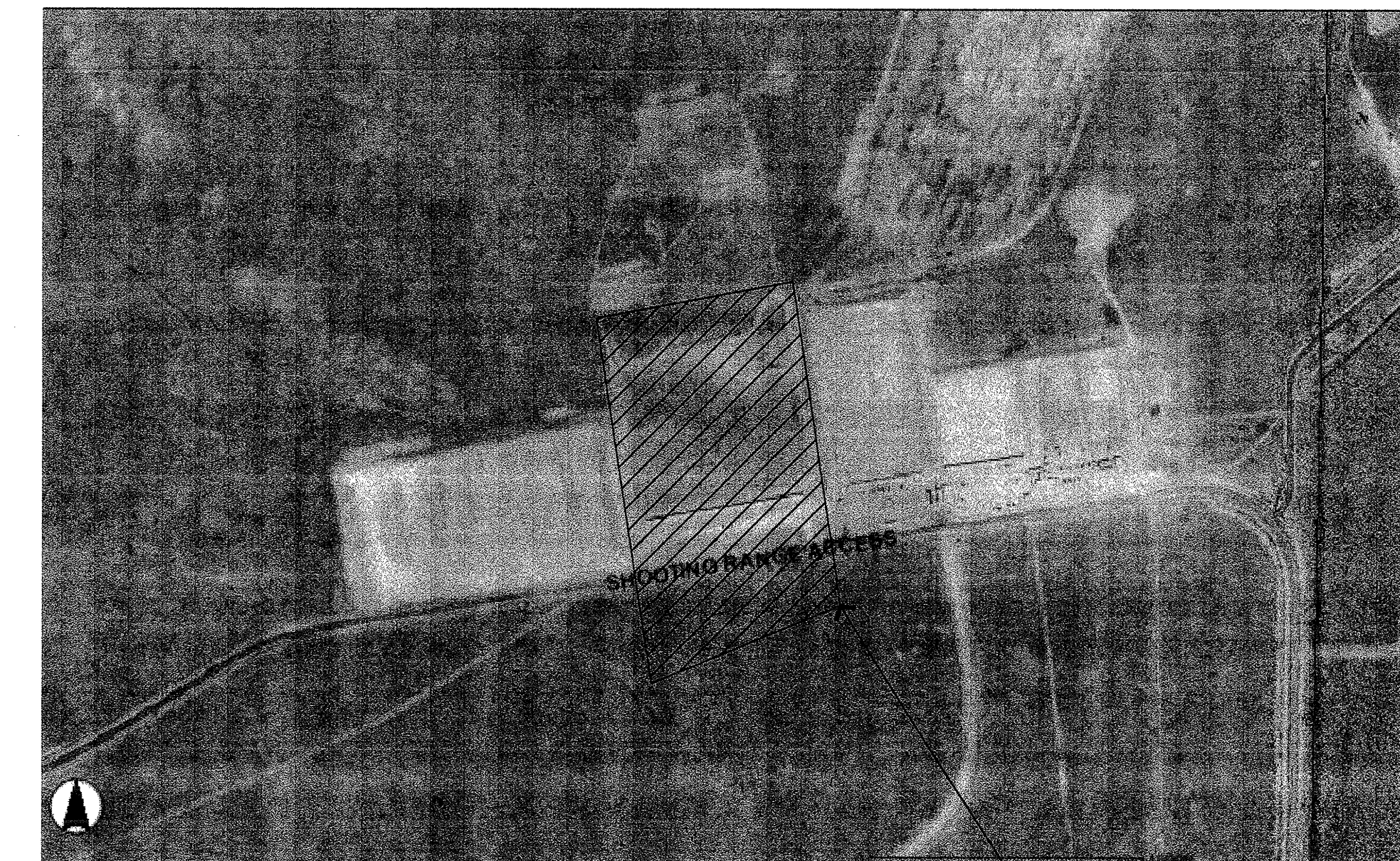
FIRE PROTECTION SYSTEM: UNSPRINKLED/5000 GAL WATER TANK

REQUIRED PARKING: 1:3 (OPEN ASSEMBLY AREA) 500/3 = 161 PER BLDG.
REQUIRED ACCESSIBLE: 8 SPACES/1 VAN ACCESSIBLE PER BUILDING

VIP/REFEREE PARKING (NORTH LOT):
4 HANDICAP ACCESSIBLE (8' X 20' WITH 5' AISLES)
2 VAN HANDICAP ACCESSIBLE (8' X 20' WITH 5' AISLES)
10 GOLF CART (6' X 10')
13 STANDARD (8' X 20')

GENERAL PARKING (SOUTH LOT):
12 HANDICAP ACCESSIBLE (8' X 20' WITH 5' AISLES)
2 VAN ACCESSIBLE (8' X 20' WITH 5' AISLES)
10 RECREATIONAL VEHICLE (20' X 43')
491 STANDARD (8' X 20')

VICINITY MAPS



AREA OF IMPROVEMENTS



SITE

**PPC SHOOTING RANGE
BUILDING "B"**
CITY OF ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO

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COVER SHEET

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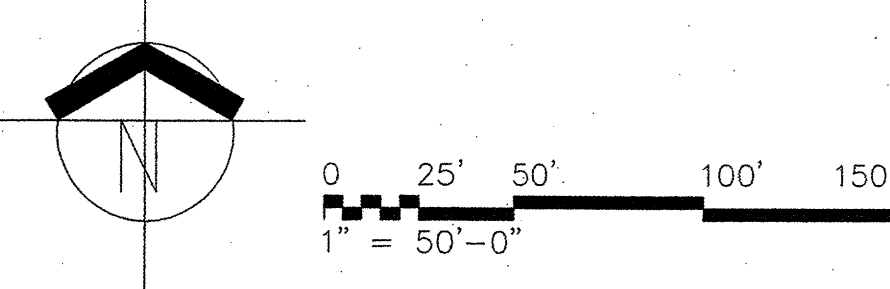
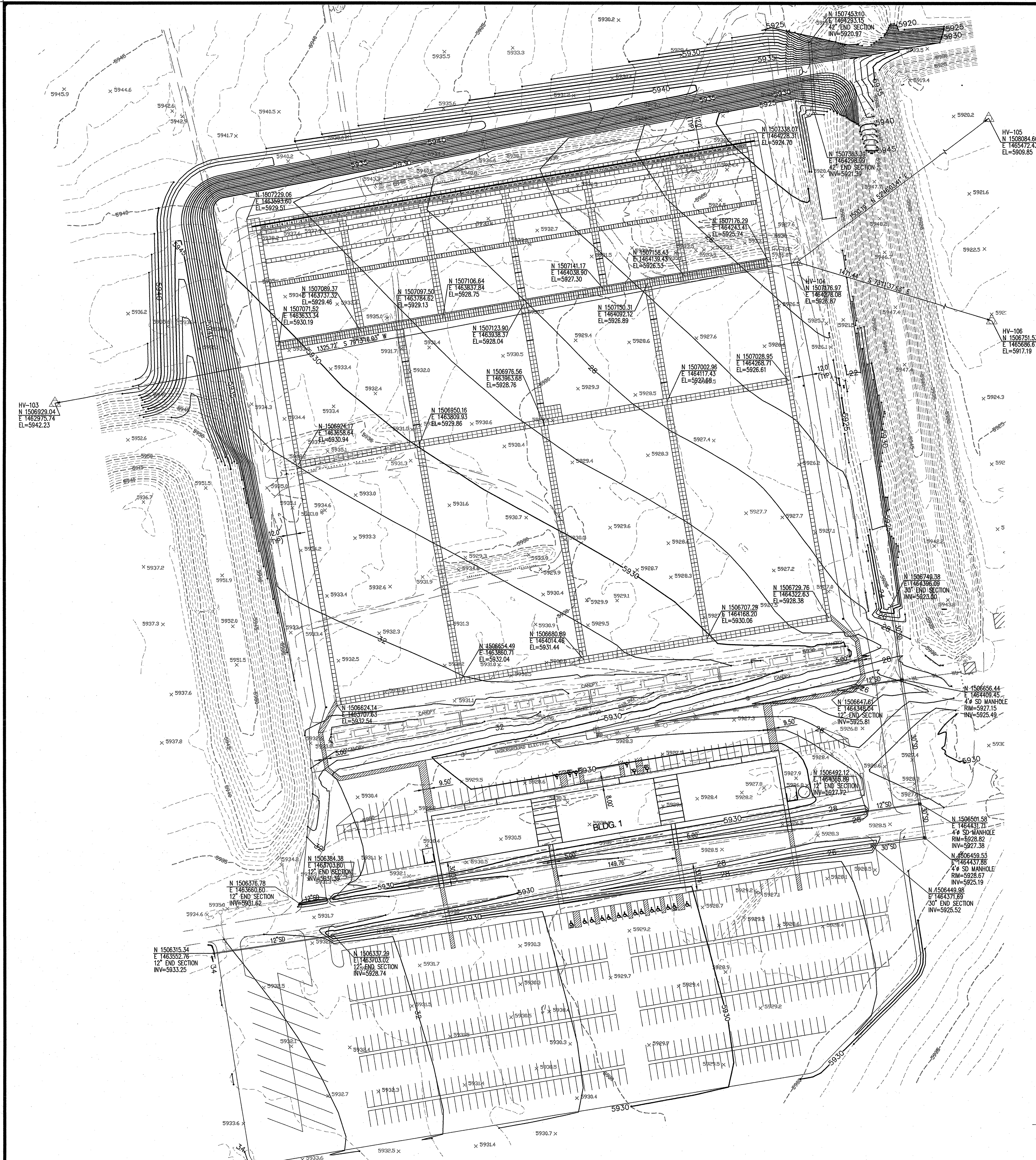
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15 JUNE 2006

PROJECT NO.
7915.02

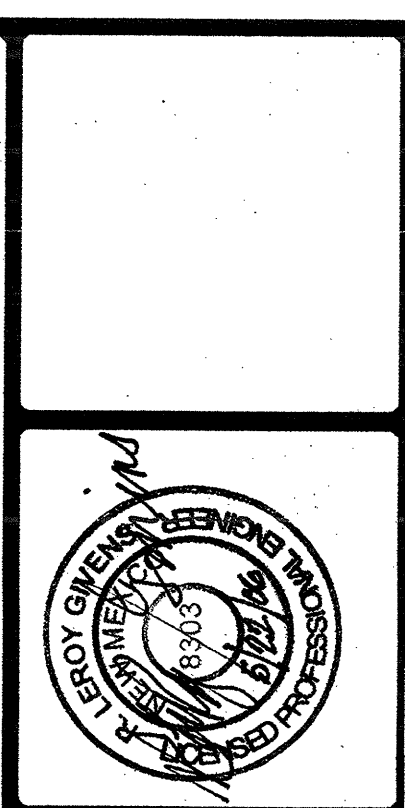
DRAWING SHEET

G001

Project/Revision:
Project: PPC Shooting Range
Revision: 02-15-06
Original
Xcopy



Bradley D. Björn 5/22/06
Approval for Rough Grading Date



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NRA SHOOTING RANGE
CIVIL SITE PLAN
ALBUQUERQUE, NEW MEXICO

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CAD FILENAME
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SHEET TITLE
CIVIL SITE PLAN

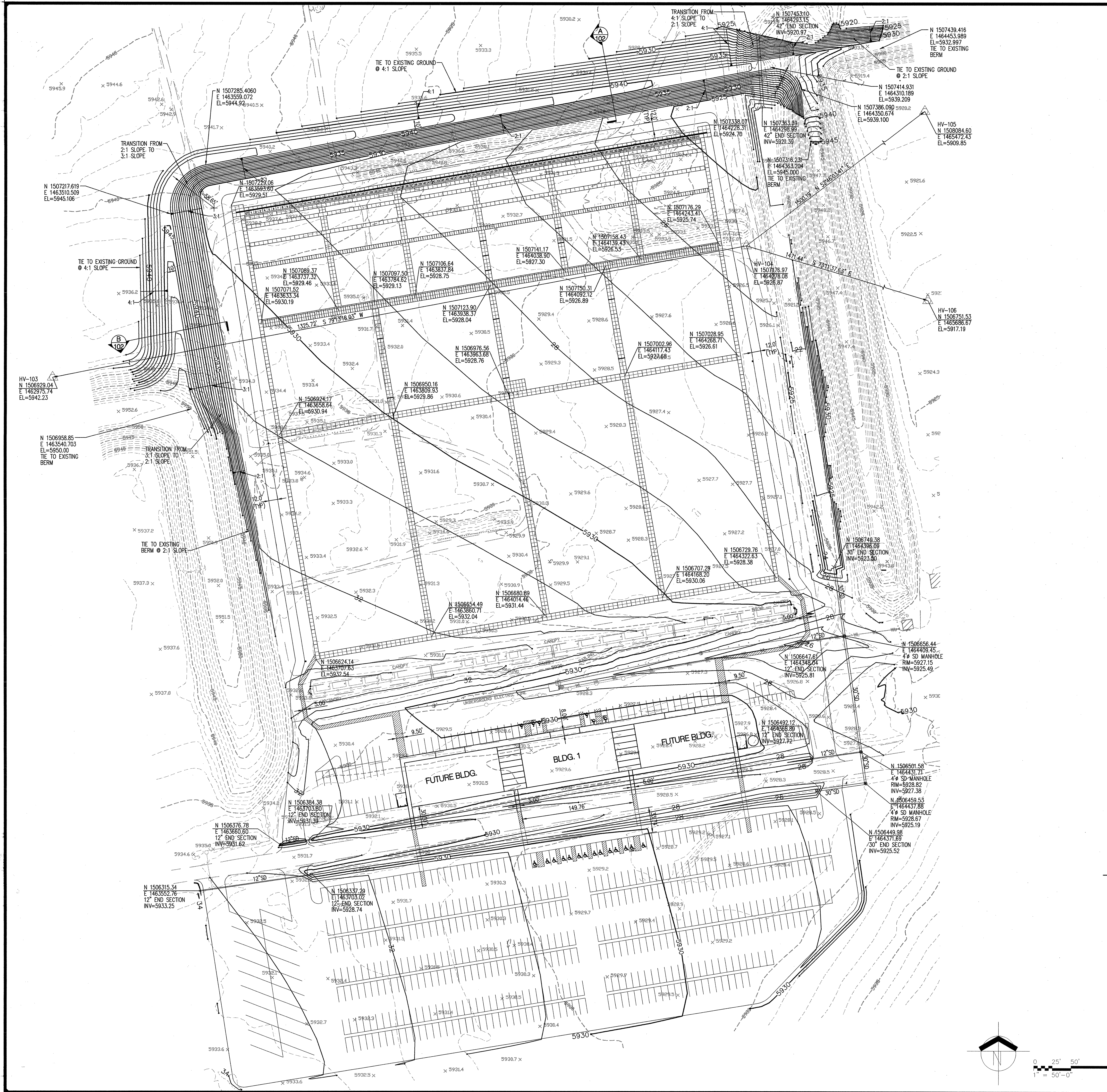
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DATE
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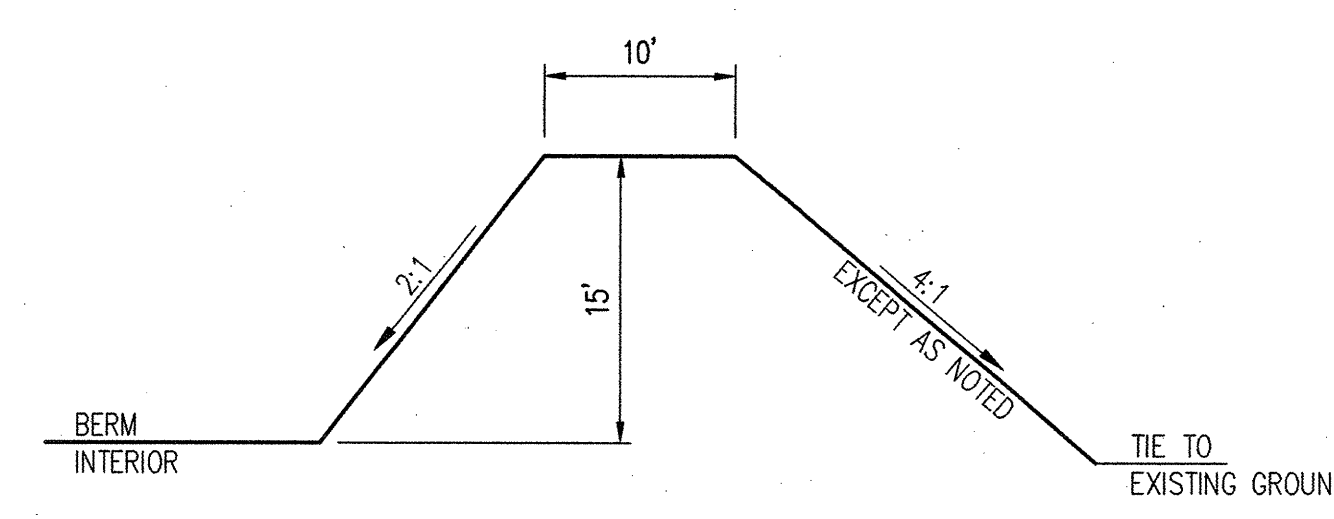
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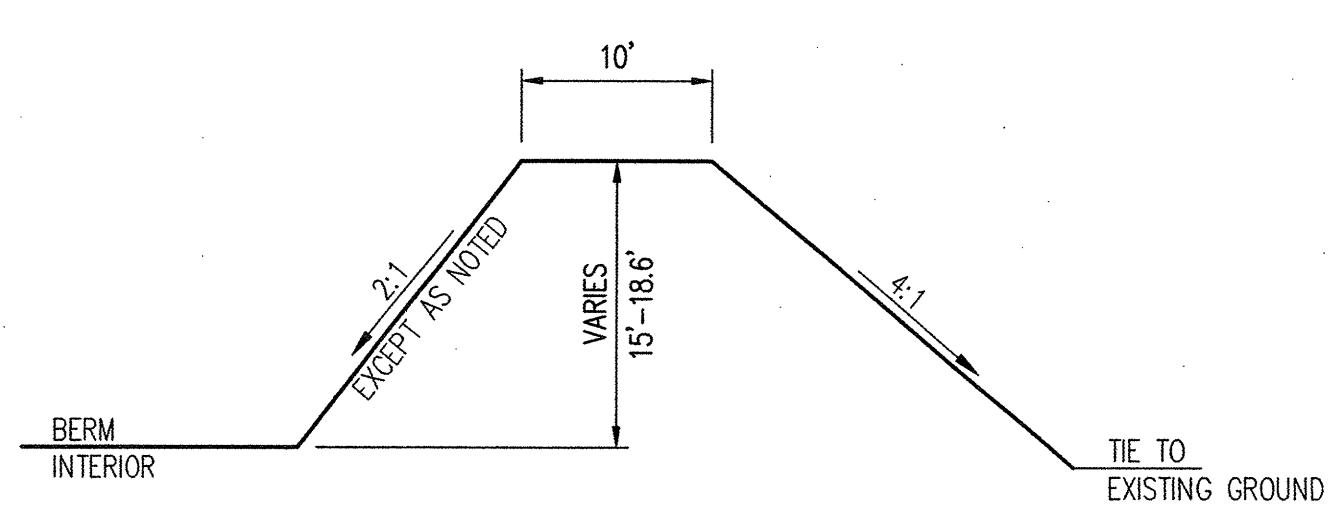
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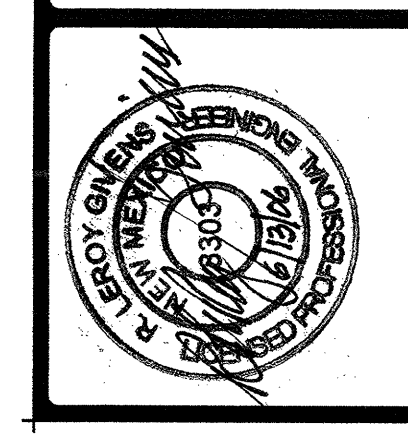
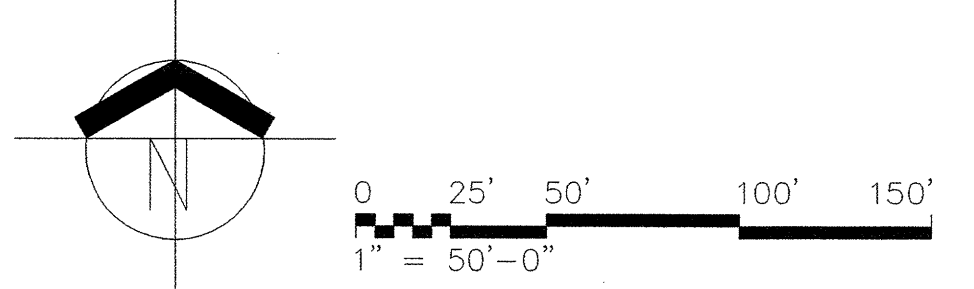
- CONSTRUCTION NOTES:**
1. THE OWNER OBTAINED AN EXCAVATION/CONSTRUCTION PERMIT FROM THE CITY OF ALBUQUERQUE. THE CONTRACTOR SHALL REVIEW PERMIT TERMS BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
 2. THE CONTRACTOR UNDER CONTRACT SHALL PERFORM ALL WORK DETAILED ON THESE PLANS IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7.
 3. THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION, CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPANCY AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
 4. CONTRACTOR SHALL NOTIFY THE OWNER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
 5. CONTRACTOR SHALL CARRY-OUT ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P AS A MINIMUM ACCEPTABLE STANDARD. FOR PIPELINE TRENCH EXCAVATION, CONTRACTOR SHALL UTILIZE METHODS AND PROCEDURES OUTLINED IN THE OSHA REGULATIONS STANDARD NO. 1926 FOR OSHA TYPE "C" SOILS.
 6. FOR TRENCH DEPTHS EXCEEDING 20 FEET, CONTRACTOR SHALL BE RESPONSIBLE TO SUBMIT TO OWNER VERIFICATION THAT TRENCH SUPPORT IS DESIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 7. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
 8. DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAIL, THEREO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
 9. CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITY TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
 10. EXCEPT AS SET FORTH HEREIN AND IN THE SPECIFICATIONS, THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, SURFACE DISTURBANCE).
 11. THE CONTRACTOR SHALL REPLACE AT HIS EXPENSE ANY AND ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION. ALL PROPERTY CORNERS MUST BE RESET BY A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR.
 12. DURING THE CONSTRUCTION OF THE NEW WORK, THE CONTRACTOR SHALL INSTALL ANY TEMPORARY DRAINAGE MEASURES NECESSARY TO SAFELY CONVEY STORM WATER RUNOFF TO EXISTING OUTFALLS. SILT FENCES AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS SHOWN IN THE SWPPP. ANY DAMAGES TO PRIVATE PROPERTY OR IMPROVEMENTS CONSTRUCTED BY THE CONTRACTOR RESULTING FROM STORM WATER FLOWS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 13. THE CONTRACTOR SHALL UTILIZE 4000 PSI STRUCTURAL CONCRETE UNLESS OTHERWISE NOTED ON PLANS.



BERM SECTION
SCALE: N.T.S.



BERM SECTION
SCALE: N.T.S.



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**NRA SHOOTING RANGE
CIVIL GRADING AND DRAINAGE PLAN**

ALBUQUERQUE, NEW MEXICO

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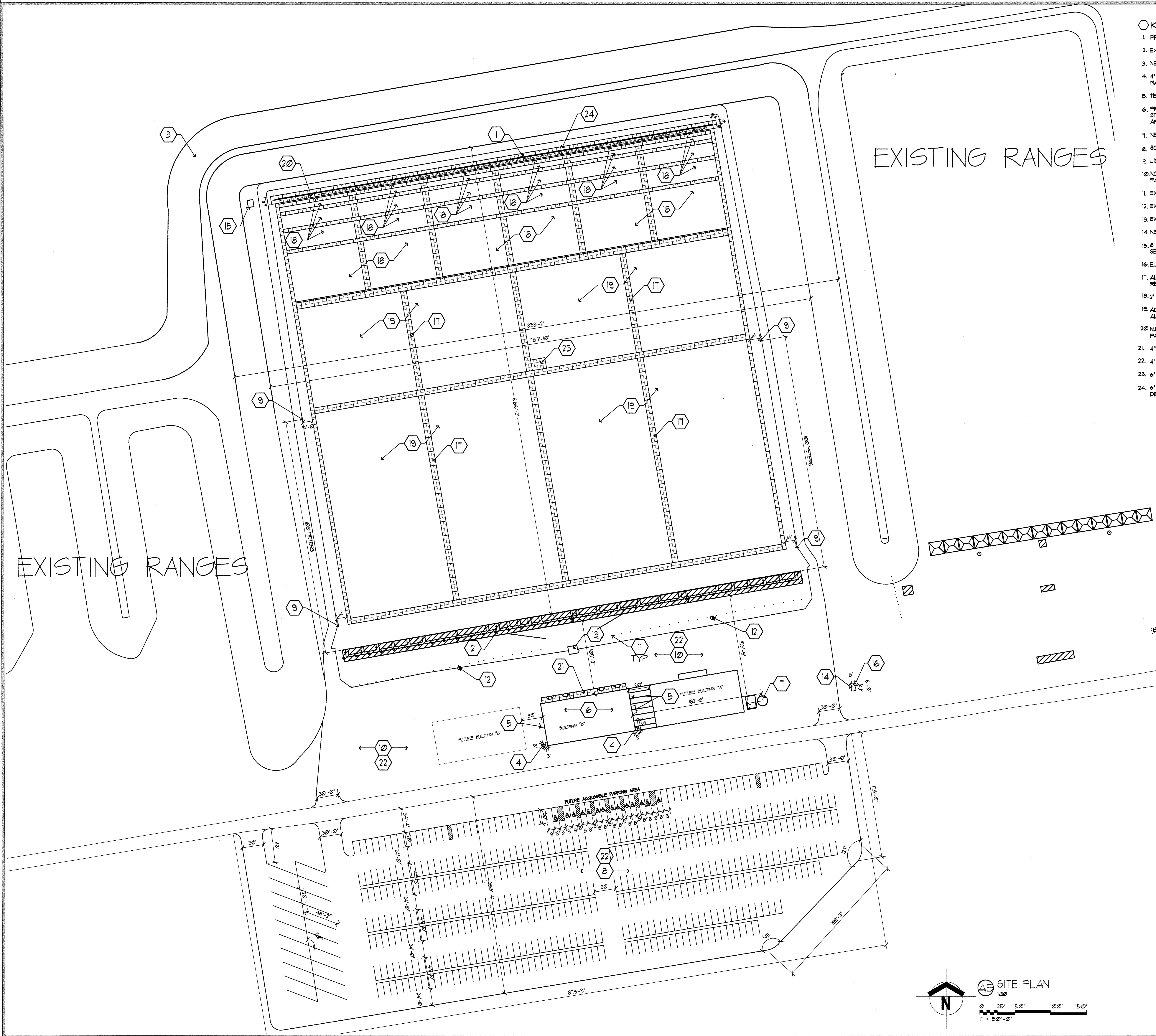
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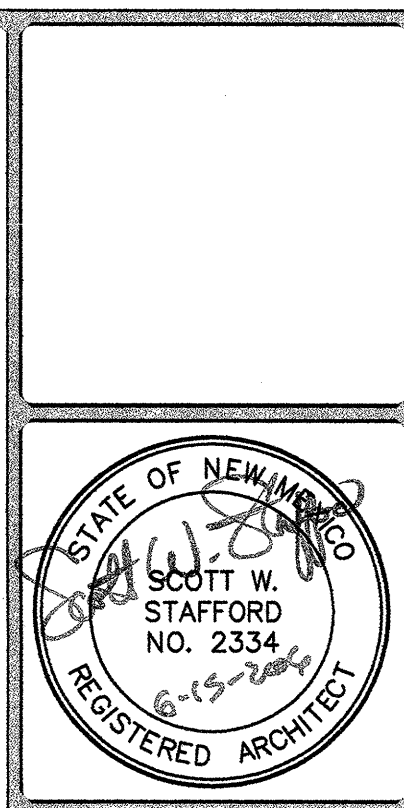
REVISION	DATE
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PROJECT NO.
2915.02

DRAWING SHEET
C102



- KEYED NOTES:**
1. PPC RANGE AND BALLISTIC BARRIER. SEE SHEETS A501 AND A502.
 2. EXISTING RIFLE RANGE SHADE STRUCTURE.
 3. NEW BERM'S. SEE CIVIL.
 4. 4' REINFORCED CONCRETE EQUIPMENT PADS. TOP OF PAD MUST MATCH FINISHED FLOOR OF BUILDING.
 5. TEMPORARY CONCRETE RAMPS. SEE DETAIL B5/A801.
 6. PREFABRICATED METAL BUILDING, CENTERED ON EXISTING SHADE STRUCTURE. STRUCTURAL DRAWINGS WILL BE SUBMITTED FOR APPROVAL PRIOR TO ERECTION AND C.O.
 7. NEW 5000 GAL. WATER TANK. SEE PLUMBING.
 8. SOUTH PARKING LOT. SEE CIVIL SHEETS.
 9. LIGHT POLE BASE. SEE ELECTRICAL.
 10. NORTH PARKING LOT. SEE COMPETITION DRAWING A101 FOR 2006 PARKING LAYOUT.
 11. EXISTING BOLLARDS TO REMAIN.
 12. EXISTING LIGHT POLES TO REMAIN.
 13. EXISTING BUILDING TO REMAIN.
 14. NEW TRANSFORMER PAD.
 15. 8' X 10' PREFABRICATED COMPRESSOR SHED ON 4' CONCRETE SLAB. SEE DETAILS D3, E2, & E3/A801.
 16. ELECTRIC METER MOUNTED ON TRANSFORMER.
 17. ALTERNATE NORTH/SOUTH SIDEWALKS. PRICE SEPARATELY FROM REST OF SIDEWALKS.
 18. 2' CRUSHER FINES ON WEED BARRIER.
 19. ADDITION 2' CRUSHER FINES ON WEED BARRIER. PRICE AS ALTERNATE.
 20. NUMBERS FOR EACH TARGET ARE INFORMATIONAL ONLY. DO NOT PAINT NUMBERS ON CONCRETE OR BARRIER.
 21. 4" THICK, 8'-0" W SIDEWALK WITH HANDICAP ACCESS RAMPS.
 22. 4' MILLINGS FOR PHASE I PARKING PLAN.
 23. 6' REINFORCED CONCRETE TOWER PAD. SEE DETAILS A801.
 24. 6' FIBER REINFORCED CONCRETE EQUIPMENT PAD. SEE DETAILS A 801.



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**PPC SHOOTING RANGE
BUILDING "B"**
CITY OF ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO

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CAD FILENAME
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SHEET TITLE
SITE PLAN 2006

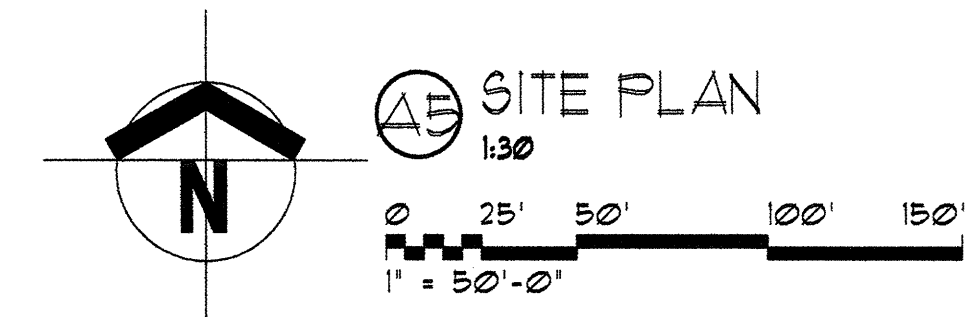
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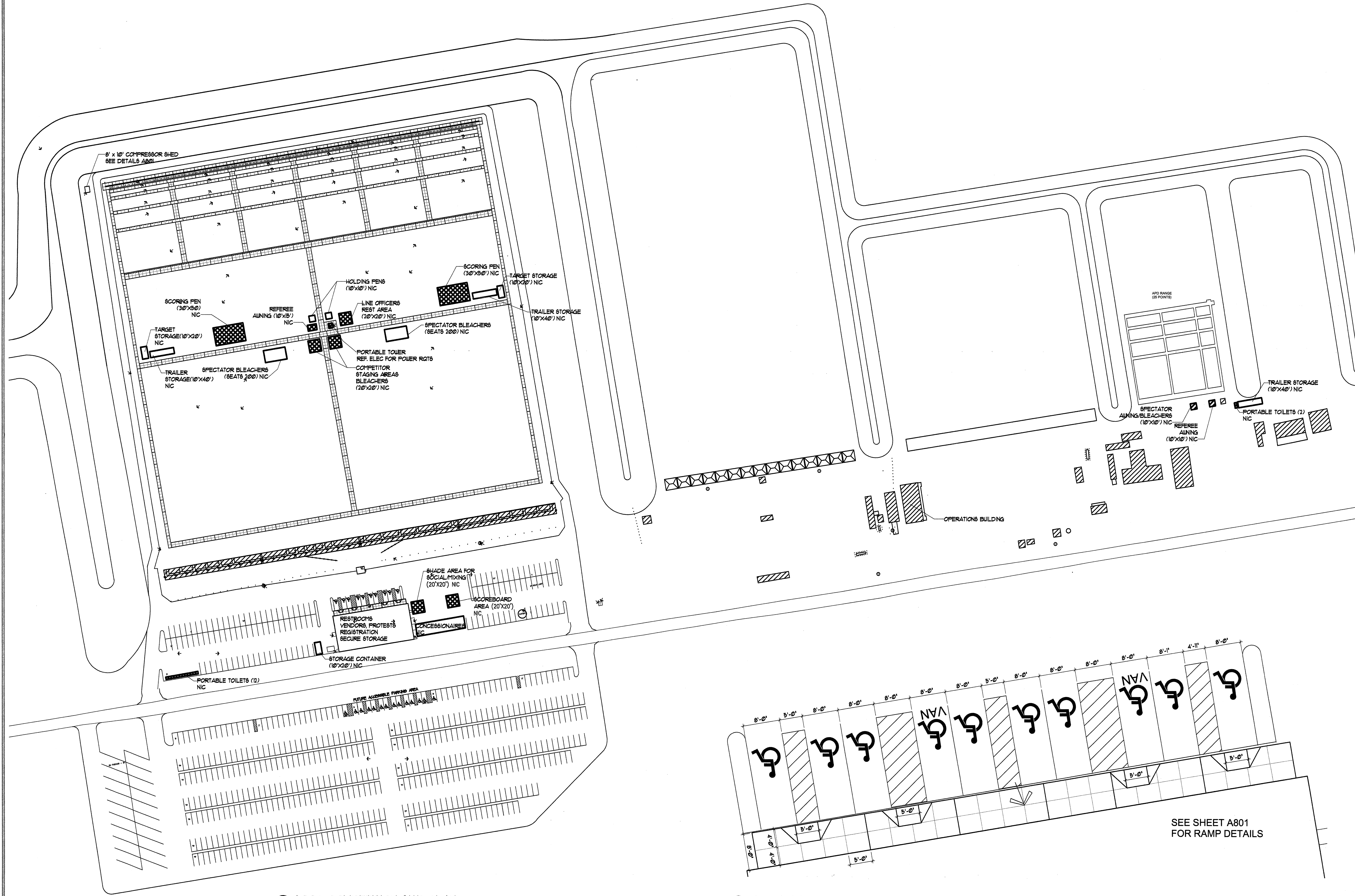
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PROJECT NO.
295.02

DRAWING SHEET

A100

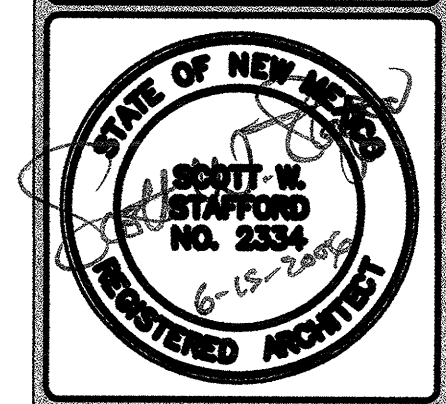




2006 COMPETITION SITE PLAN
1:60
0' 20' 40' 60' 80' 100' 120' 140' 160' 180'
1" = 60'-0"

HC PARKING SIDEWALK
1/8" = 1'-0"

SEE SHEET A801
FOR RAMP DETAILS



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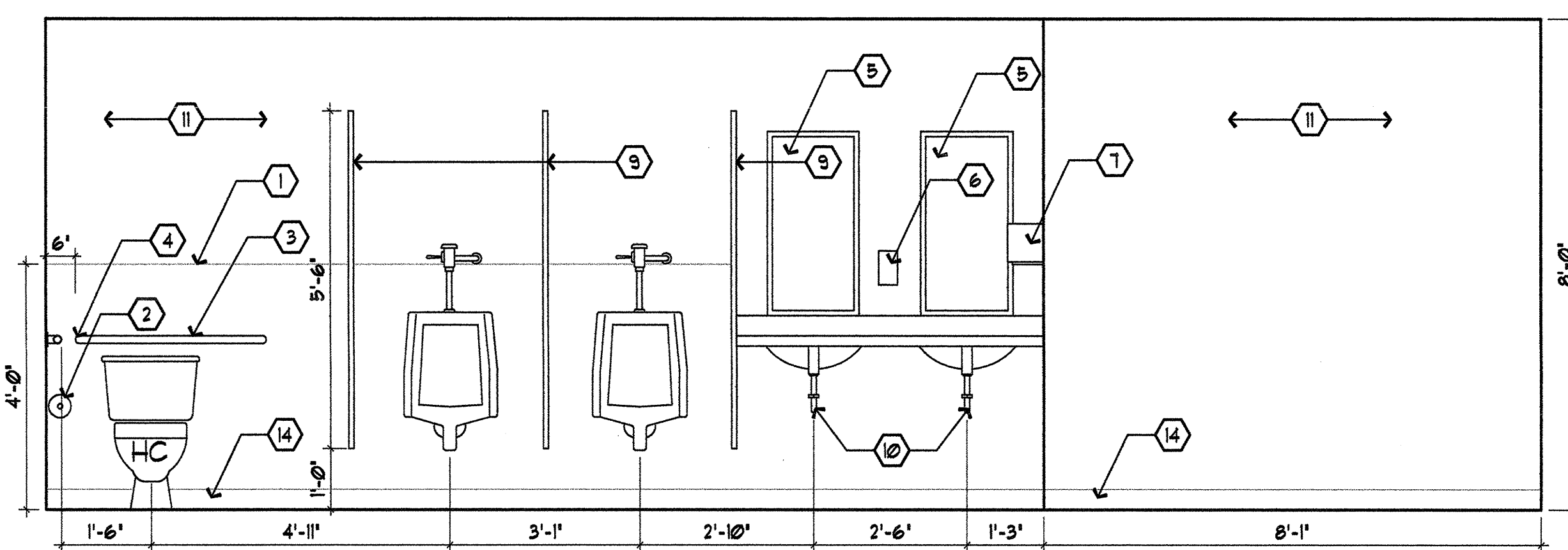
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BUILDING "B"
CITY OF ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO

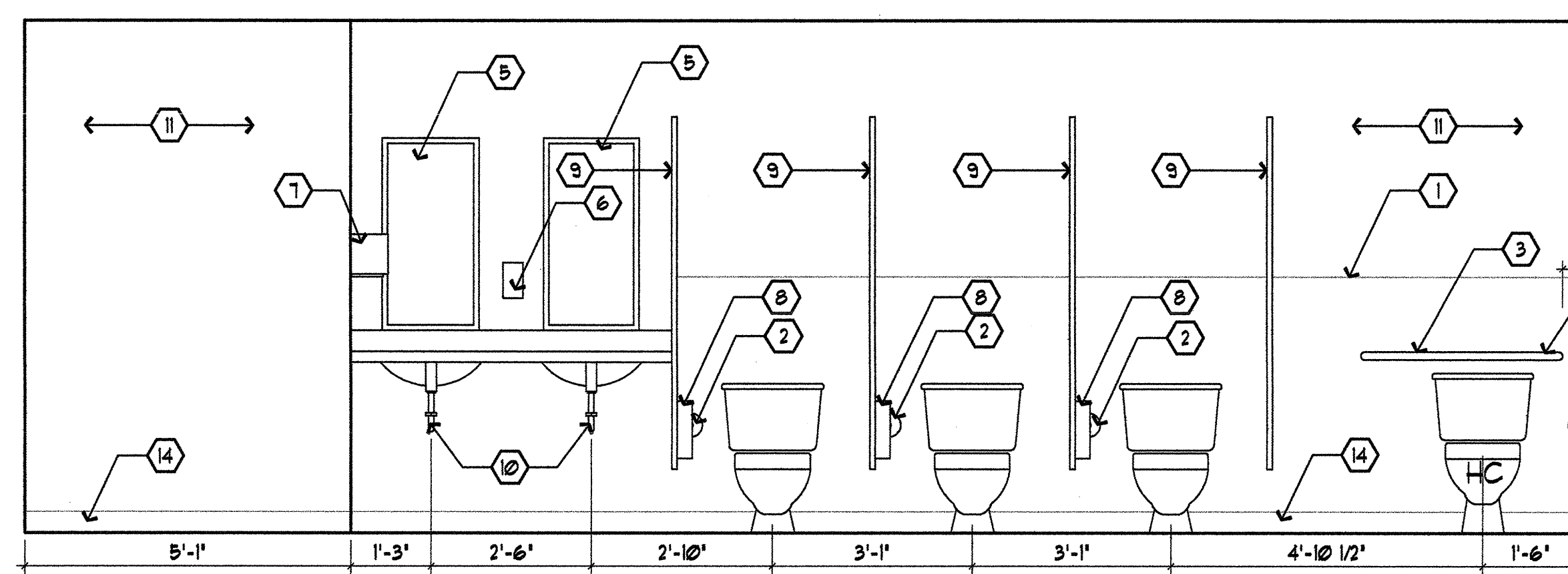
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REVISION	DATE
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DATE	15 JUNE 2006
PROJECT NO.	17235.01
DRAWING SHEET	

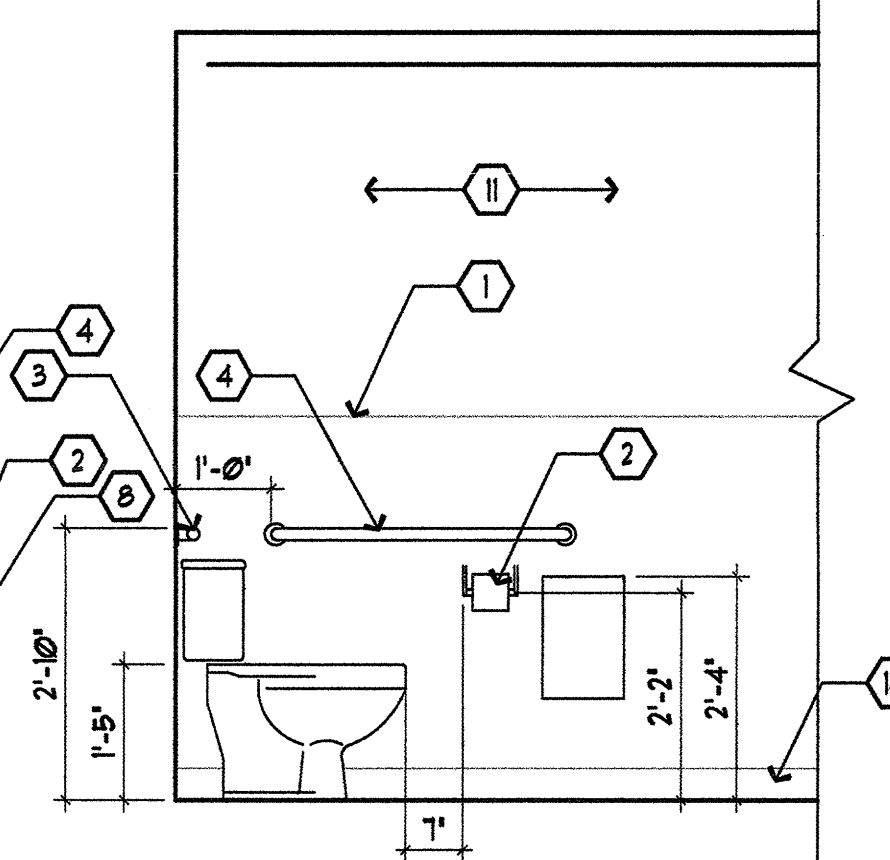
A101



MENS RESTROOM

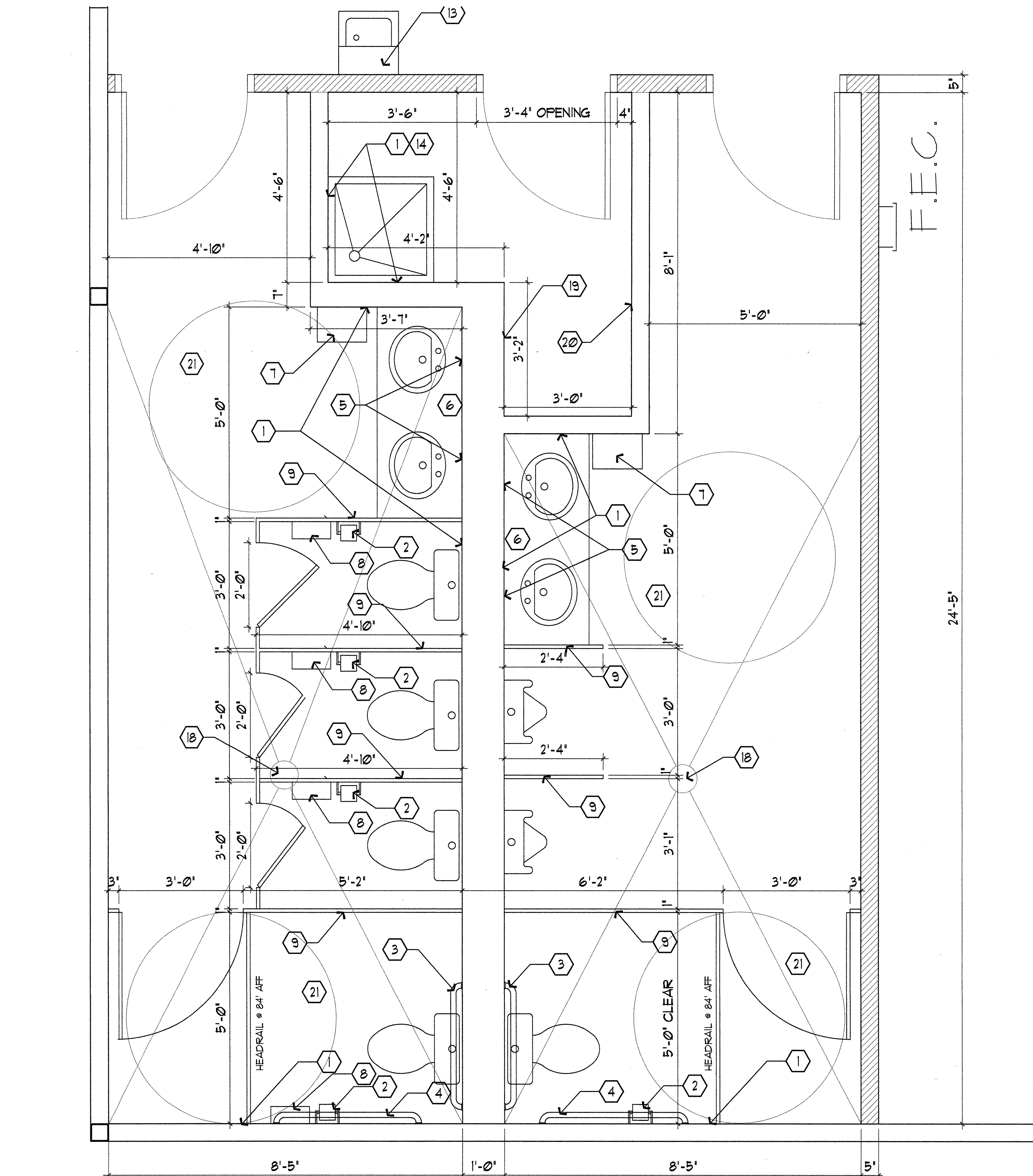


WOMENS RESTROOM

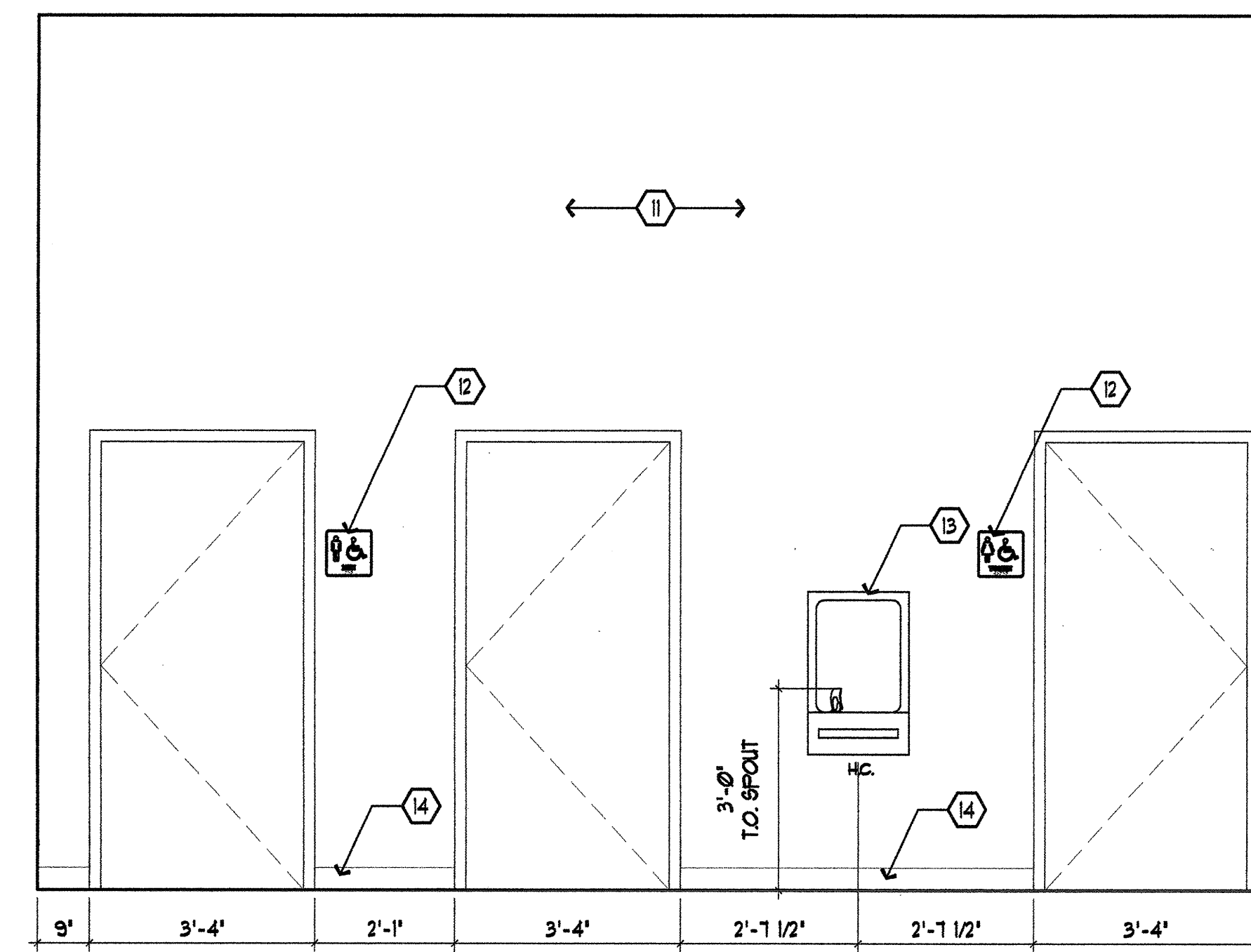


RESTROOM ELEVATION

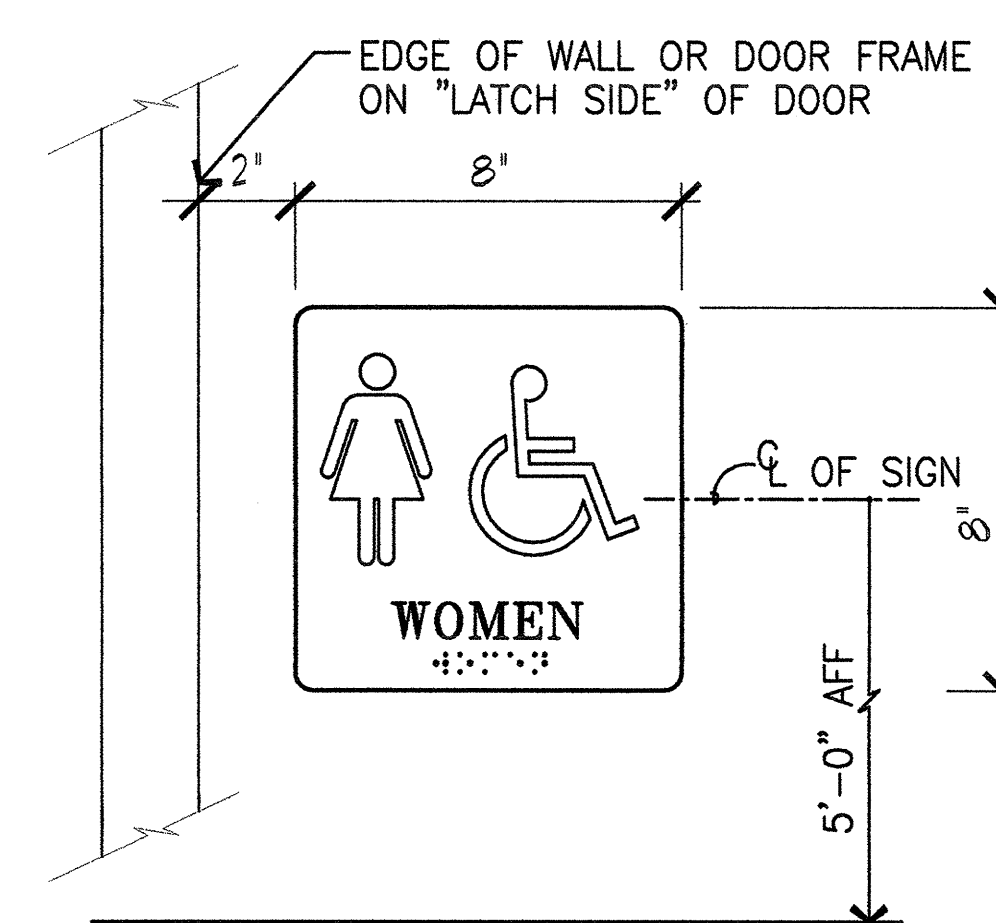
- KEYED NOTES:**
- FRP PANELS TO 48" AFF. ALMOND WITH PEBBLE FINISH. USE APPROPRIATE MOLDINGS FOR ALL SEAMS, CORNERS, AND EXPOSED EDGES. NO EXPOSED ADHESIVE.
 - TOILET PAPER HOLDER. DUAL ROLL TOILET TISSUE DISPENSER. MOUNT TO TOP OF DIM. SHOWN.
 - 1 1/2" O.D. X 36" GRAB BAR. STAINLESS STEEL. MOUNT TOP TO DIM. SHOWN.
 - 1 1/2" O.D. X 42" GRAB BAR. STAINLESS STEEL. MOUNT TOP TO DIM. SHOWN.
 - 18" X 36" MIRROR - TYP. EACH LAY. SHOWN. MOUNT BOTTOM TO TOP OF LAVATORY SPLASH. 1/8" GA. STAINLESS STEEL FRAME. SQUARE MITERED AND WELDED CORNERS. 1/4" POLISHED PLATE GLASS. PROVIDE THEFT PROOF MOUNTING DEVICE.
 - SURFACE MOUNTED LIQUID SOAP DISPENSER. MOUNT SPOUT AT 48" AFF.
 - ELECTRIC HAND DRYER. MOUNT HIGHEST OPERABLE PART TO 48" AFF. FULLY SEALED MOTOR. HEATING ELEMENT PROTECTED BY RESETTUB CIRCUIT BREAKER. BOTTOM GRILL INTAKES AUTOMATIC SHUT OFF TIMER. TWO YEAR MIN. UNCONDITIONAL GUARANTEE. STOCK PARTS AND SERVICE REP. WITHIN 150 MILES.
 - SANITARY NAPKIN DISPOSAL. SURFACE MOUNTED.
 - METAL TOILET/URNAL PARTITIONS. SUBMIT COLOR SAMPLES FOR ARCHITECT'S SELECTION. FLUSH CONSTRUCTION GALVANIZED, BONDORIZED STEEL FACE SHEETS WITH BAKED ENAMEL FINISH. OVERSPRAY COLOR NOT ACCEPTABLE. EACH TOILET COMPARTMENT TO HAVE COAT HOOK-BUFFER, LATCH AND HINGES. LATCH WITH GUIDED EMERGENCY RELEASE. HINGES CUT NOT DOOR AND HAVE ADJUSTABLE SELF-CLOSING ACTION. URINAL SCREENS ARE WALL HUNG, FLANGE SUPPORTED, BAKED ENAMEL FINISH. PROVIDE CONTINUOUS FLANGED EDGE AND CONTINUOUS CONCEALED STEEL BRACKET FOR ATTACHMENT TO WALL. INSTALL ACCURATELY, PLUMB, TRUE AND SECURELY TO WALLS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - WRAP EXPOSED PIPES FOR ADA PROTECTION.
 - ORANGE PEEL, TEXTURE COAT EXPOSED WALLS. EPOXY PAINT RESTROOMS AND JANITOR'S CLOSET. OFF WHITE, SATIN FINISH. SUBMIT COLOR SAMPLES FOR ARCHITECT'S APPROVAL. PRIME AND PAINT ALL EXPOSED SURFACES. PRIMER AND PAINT WILL BE BY SAME MANUFACTURER. STANDARD, BEST GRADE PRODUCT. 2 COAT MINIMUM ON PAINT. PAINT IN DRY WEATHER, ON CLEAN, DRY SURFACES.
 - SIGNAGE: LETTER STYLE - ALL SIGNS - HELVETICA MEDIUM CAPS AND LOWER CASE. 1/8" THICK ACRYLIC PLASTIC. EDGES FREE FROM SAW MARKS OR OTHER IMPERFECTIONS AND 1/2" RADIUS CORNERS. 25-35 DEGREES OF GLOSS. MOUNT WITH DOUBLE-SIDED VINYL TAPE ON SMOOTH SURFACES. SUBMIT SAMPLES FOR ARCHITECT'S COLOR SELECTION.
 - DRINKING FOUNTAIN. MOUNT SPOUT AT DIM. SHOWN. WALL MOUNTED, ADA APPROVED. REFRIGERATED, STAINLESS STEEL WITH BACK SPLASH.
 - MOP SINK SURROUND AND MOP RACK. MOUNT SECURELY.
 - 4" LIGHT GREY VINYL BASE. SEE NOTE 5/A201.
 - HM DOORS, HEAVY DUTY, FULL FLUSH. PRIME AND PAINT ALL SWING DOORS AND ALL FRAMES. SUBMIT PAINT SAMPLES TO ARCHITECT FOR APPROVAL.
 - COILING DOOR. INTEGRAL COLOR. SUBMIT COLOR SAMPLES FOR ARCHITECT'S APPROVAL.
 - FLOOR DRAIN. SEE PLUMBING. SLOPE FLOOR 1/4"LF MIN.
 - INSTA-HOT WATER HEATER. SEE PLUMBING.
 - TELEPHONE BOARD. SEE ELECTRICAL.
 - 5'-0" TURNING CIRCLE FOR ACCESSIBLE ACCESS.



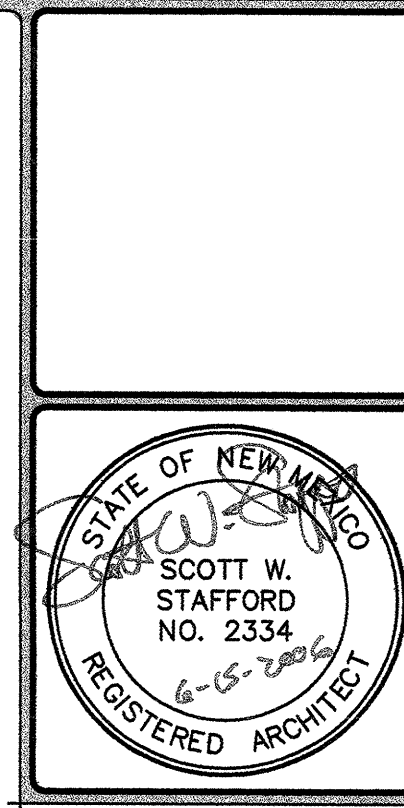
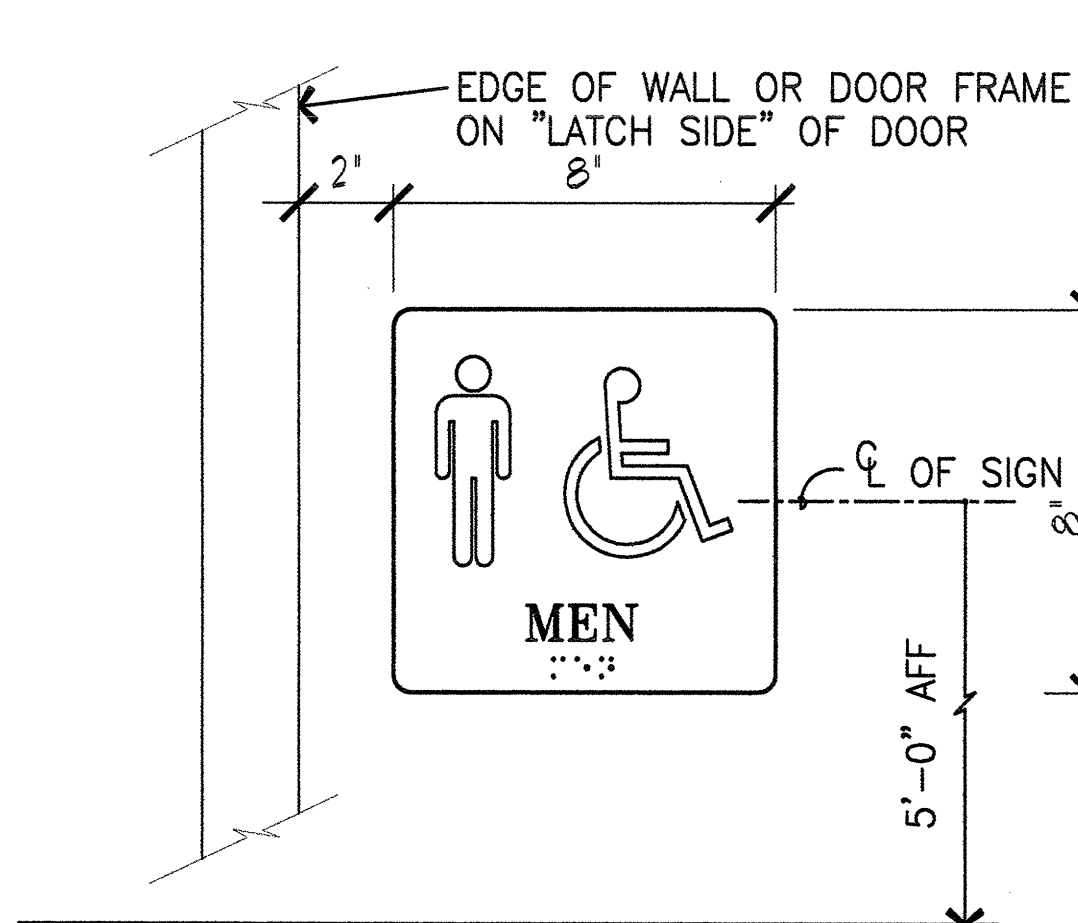
RESTROOM PLAN



CORRIDOR ELEVATION



RESTROOM SIGNAGE



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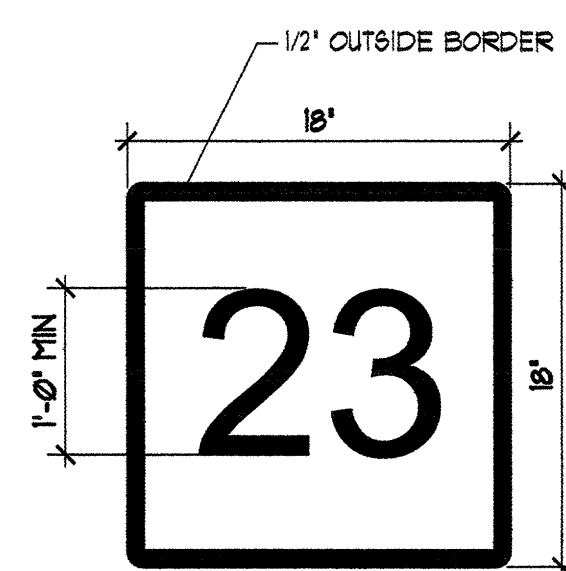
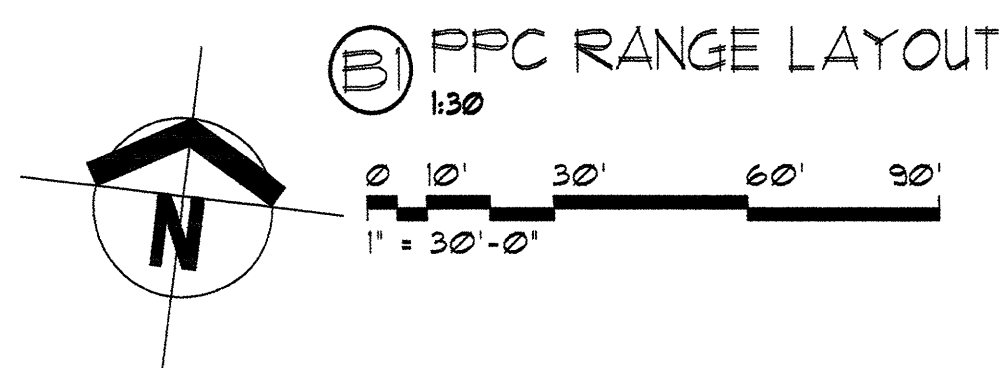
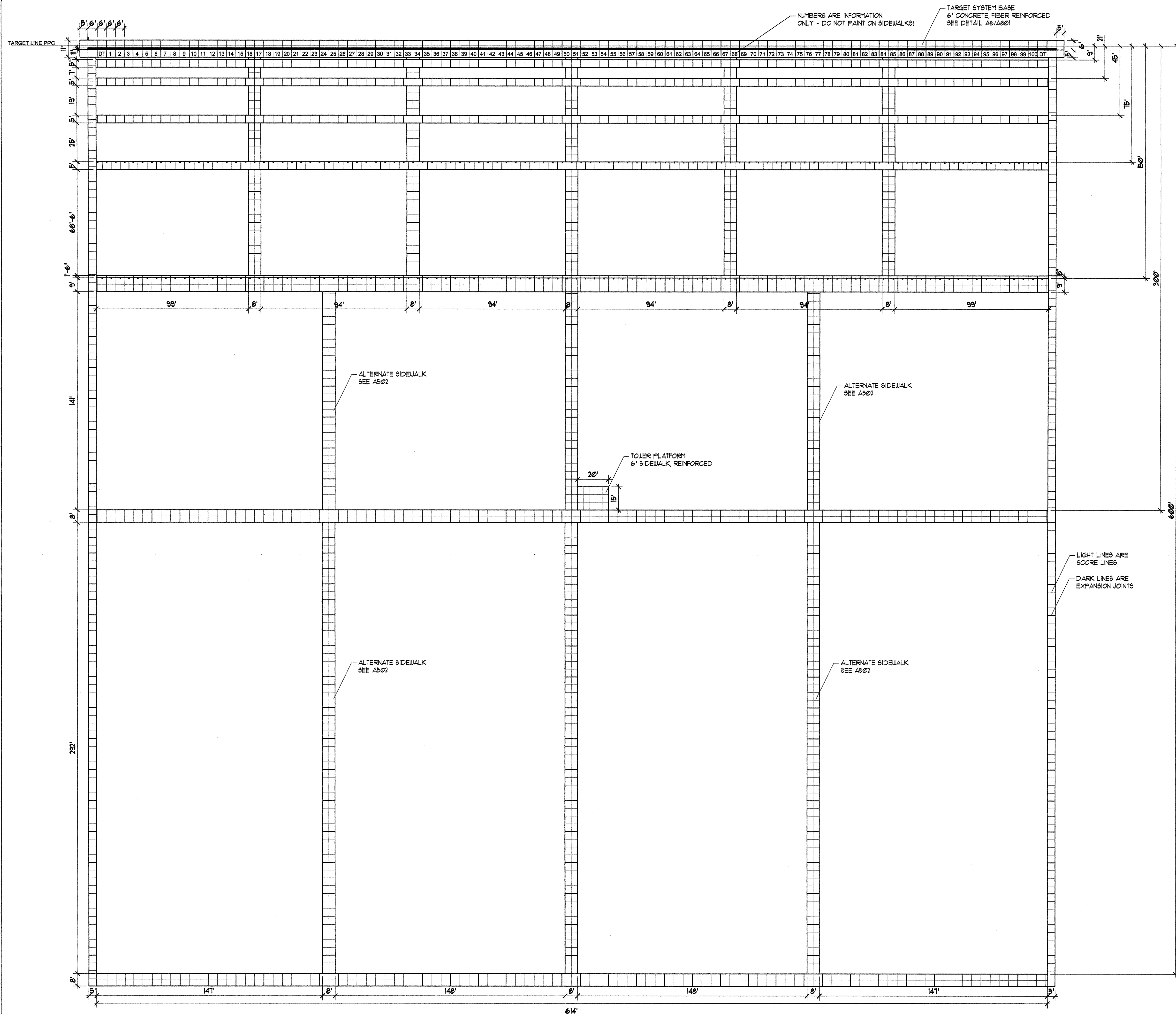
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PPC SHOOTING RANGE
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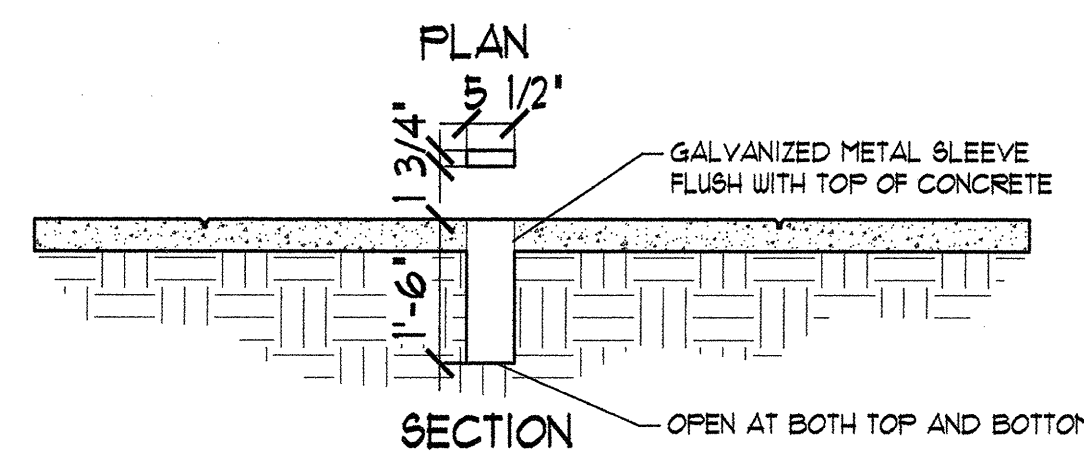
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SHEET TITLE	INTERIOR ELEVATIONS
DETAILS	SCHEDULES
REVISION	DATE
1	
2	
3	
DATE	15 JUNE 2006
PROJECT NO.	295\02
DRAWING SHEET	

A201

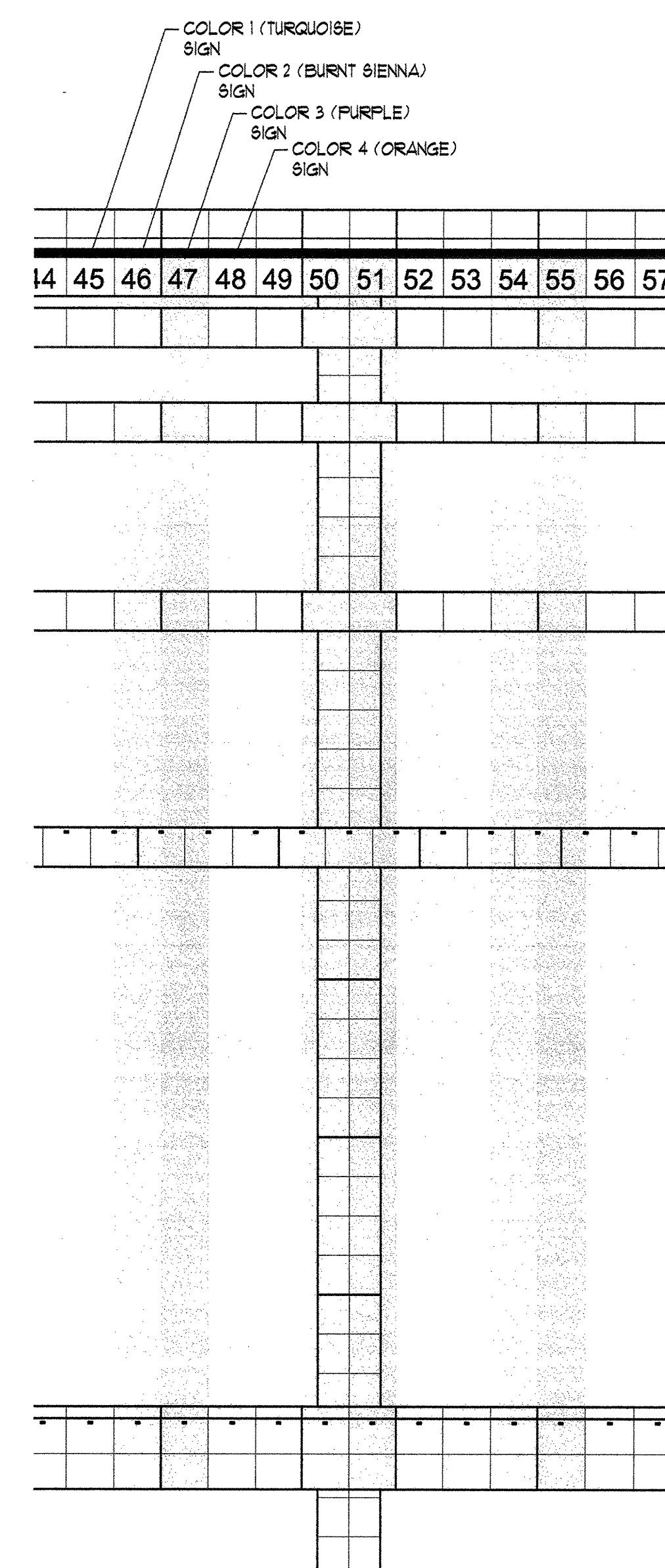
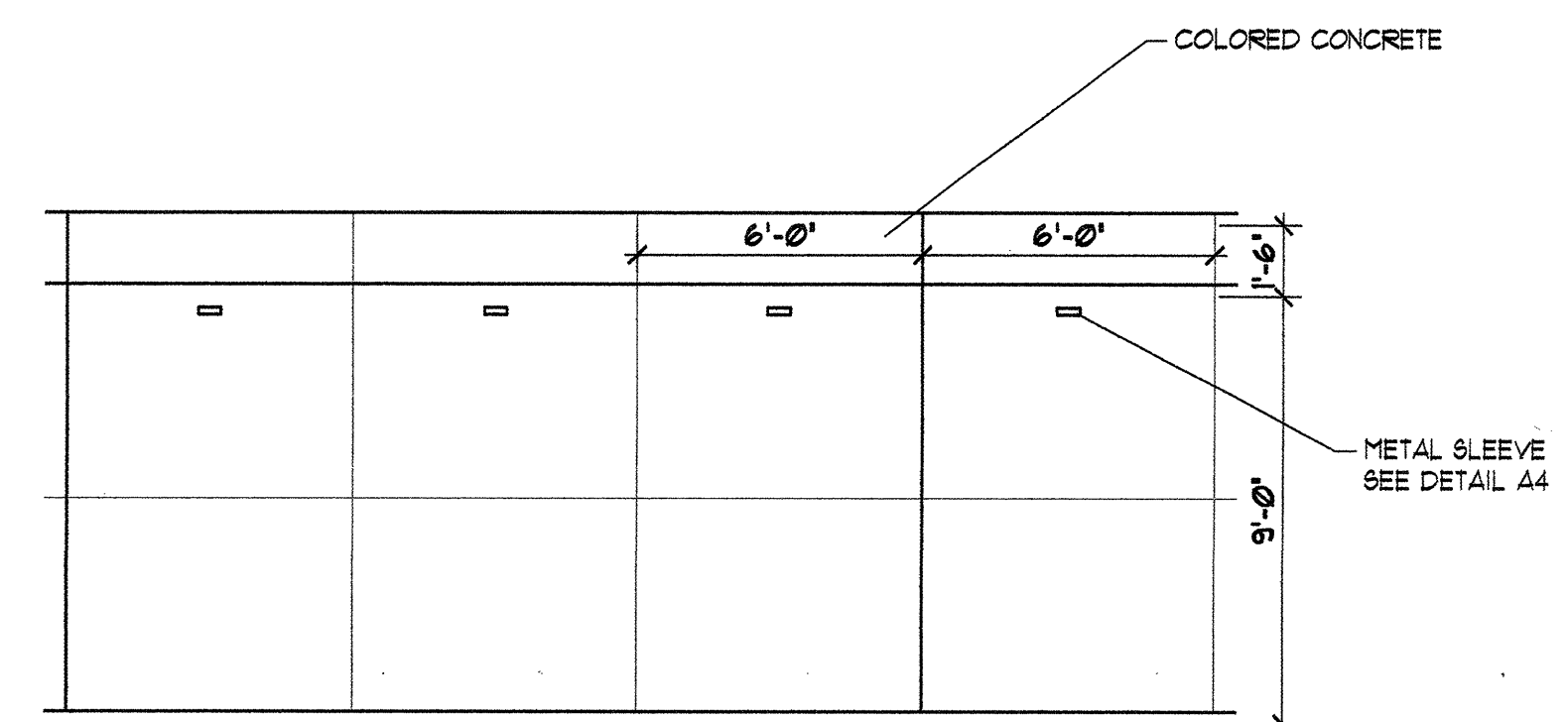
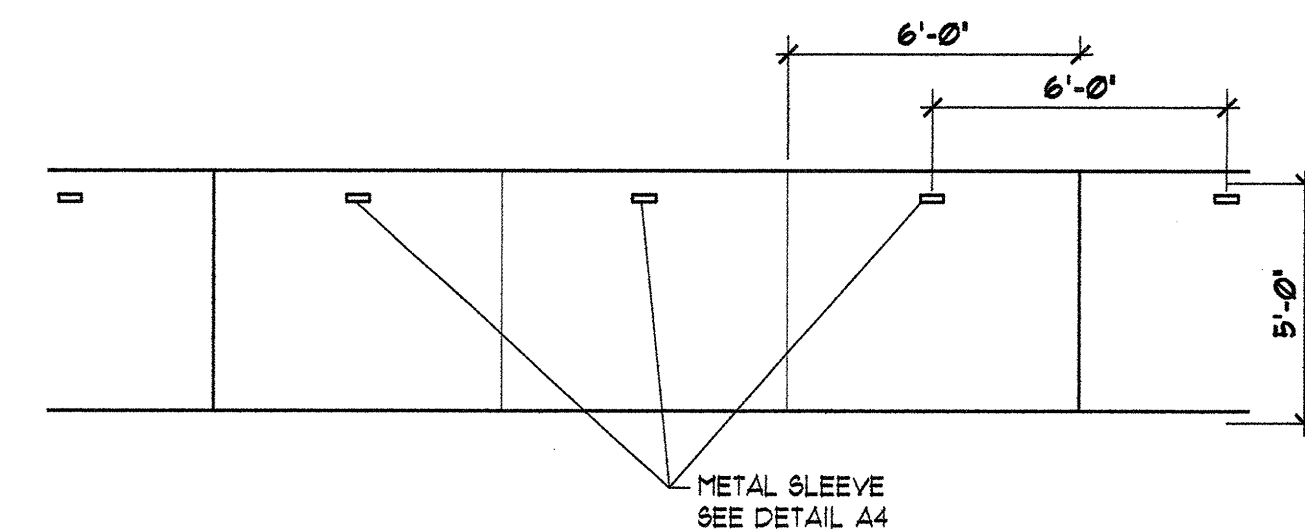
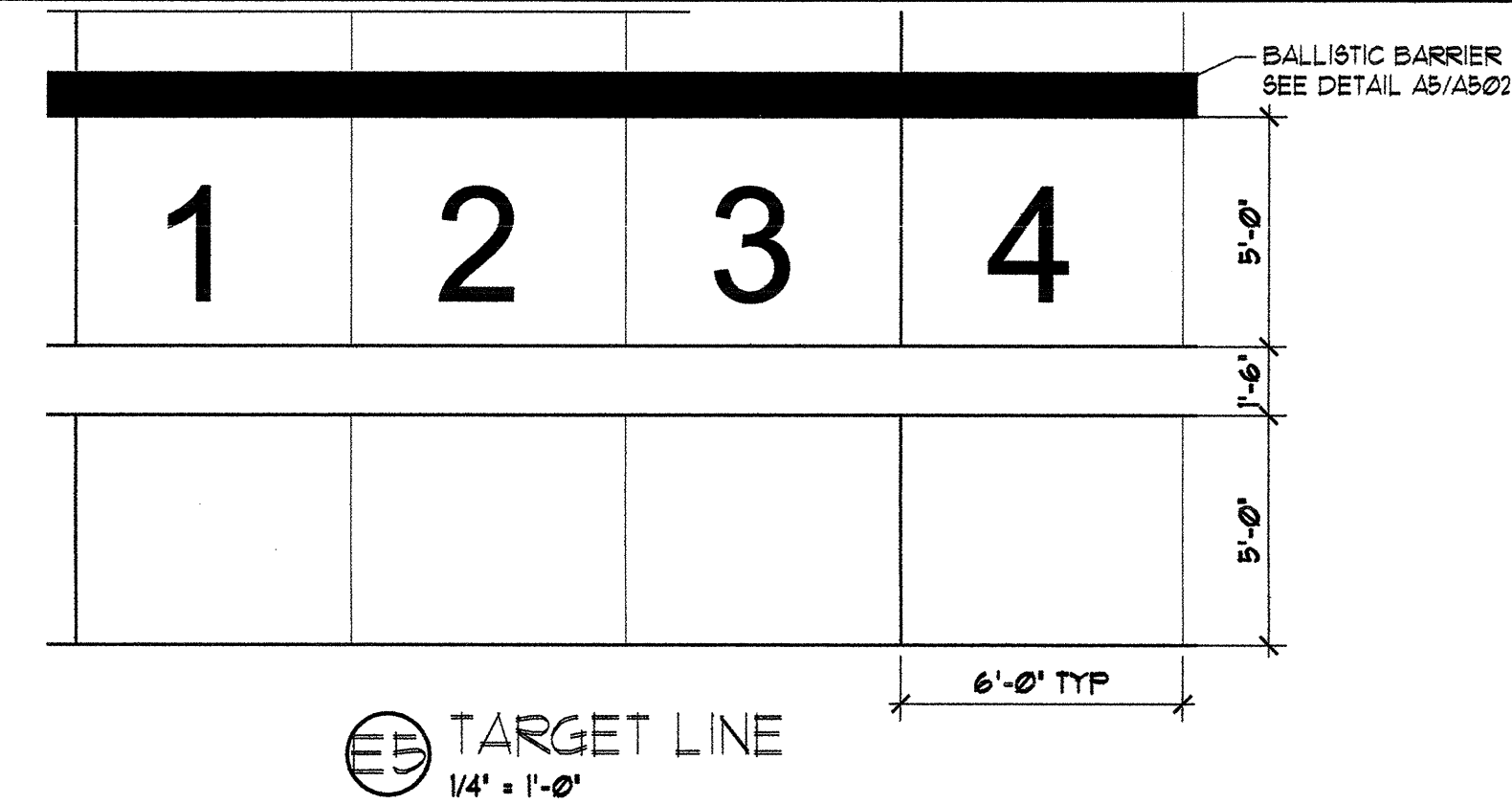


BLACK LETTERS, MIN. 1'-0" HIGH ON COLORED BACKGROUNDS WITH 1/2" BLACK BORDER. CENTER SIGNS AT EACH TARGET LANE, ON BALLISTIC BARRIER. 4 DIFFERENT COLORS ROTATED THROUGH (SEE DETAIL A5). THIS SHEET, SIGN FOR EACH COMPETITION LANE (100 TOTAL). SUBMIT COLORS TO ARCHITECT FOR APPROVAL.

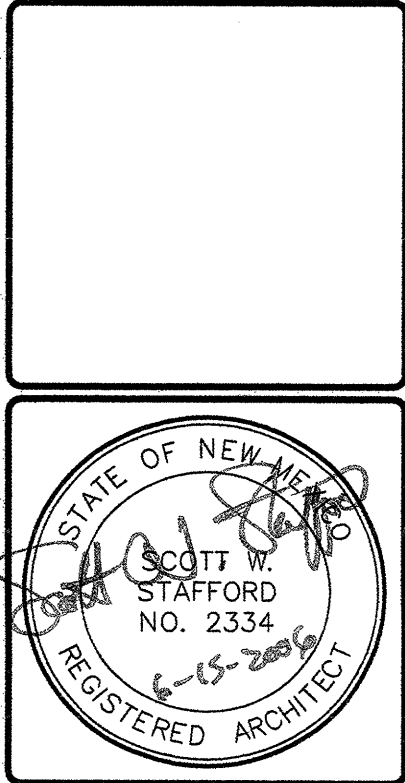
A3 SIGNS AT BARRIER
3' x 1'-0"



A4 BARRIER SLEEVE
1' x 1'-0"



A8 TARGET LINES
1/16" x 1'-0"



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CAD FILENAME
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SHEET TITLE
PPC RANGE

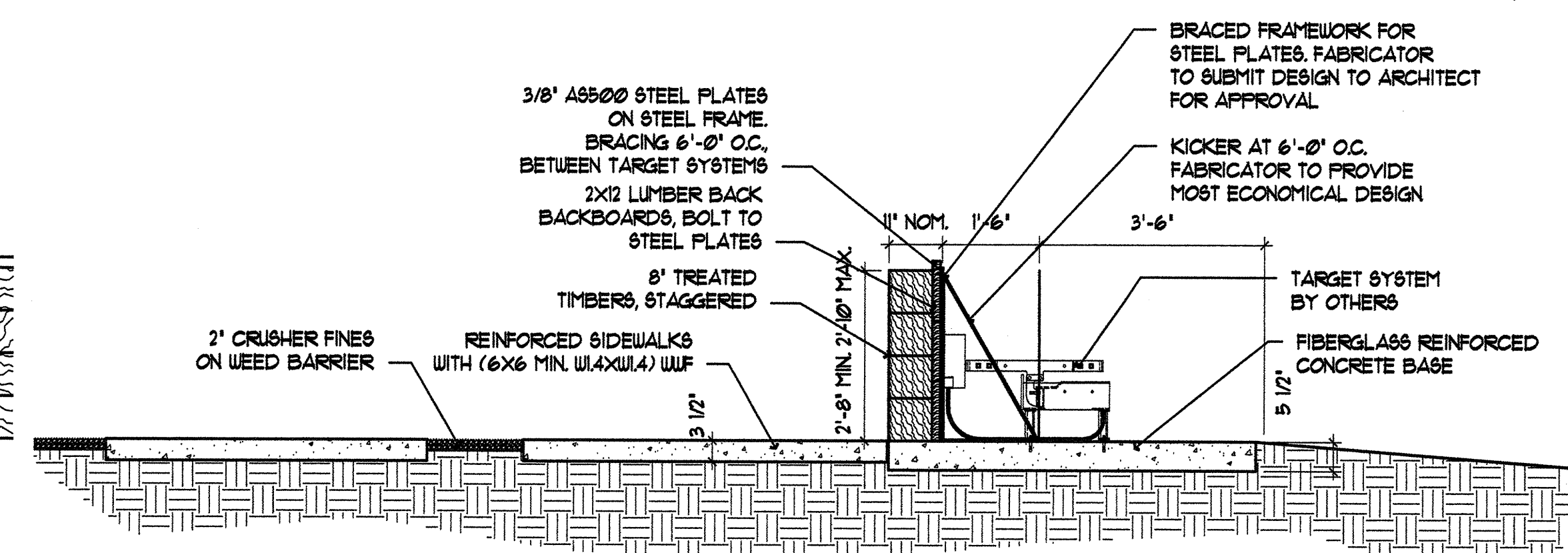
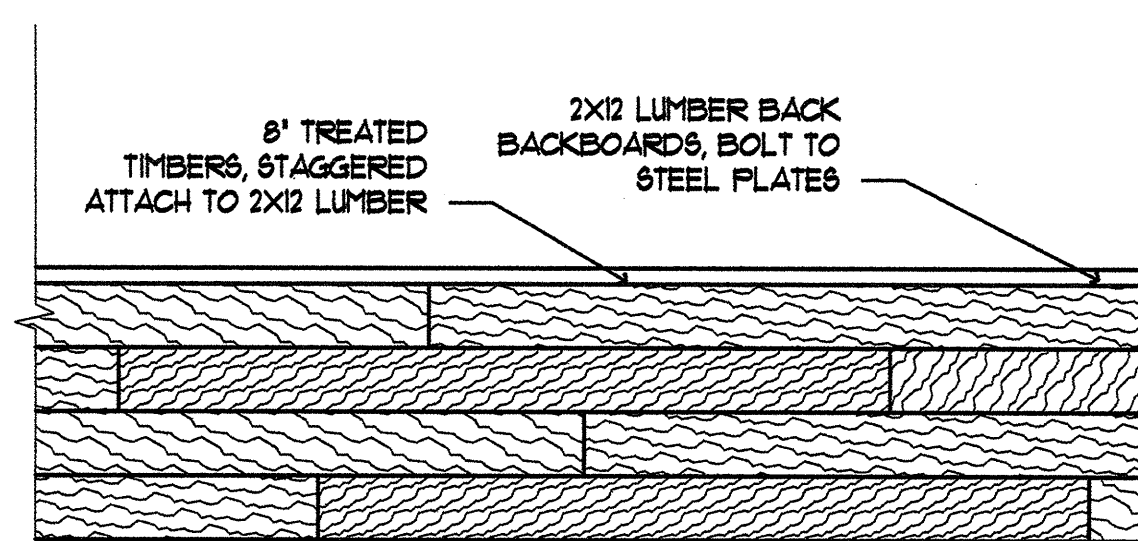
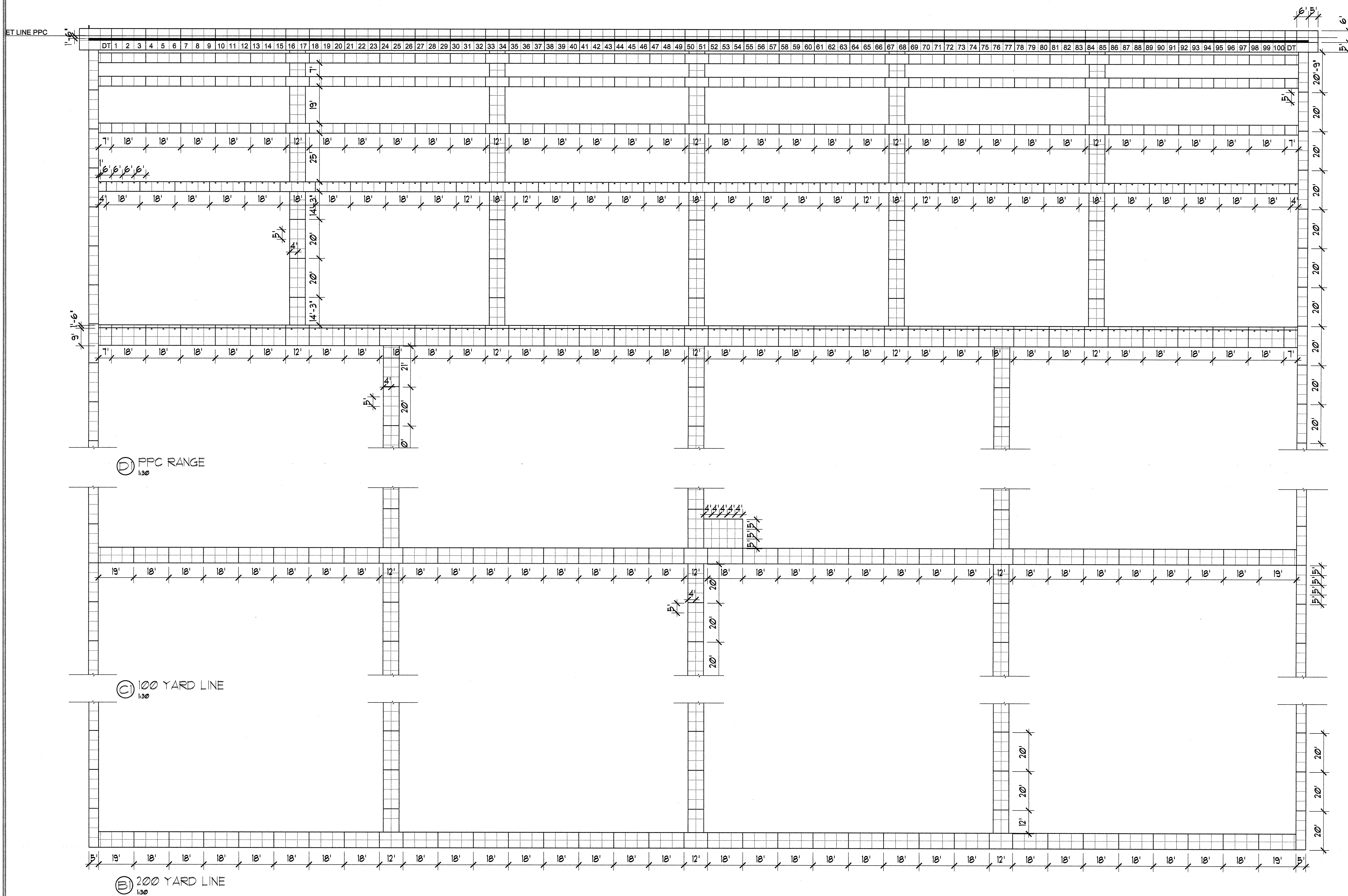
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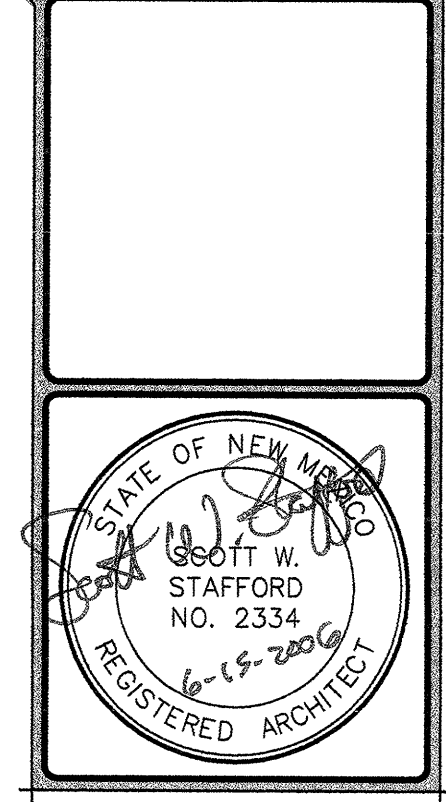
DRAWING SHEET

A501



AA BALLISTIC BARRIER ELEVATION
1/2" = 1' - 0"

AB BALLISTIC BARRIER
1/2" = 1' - 0"



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CAD FILENAME
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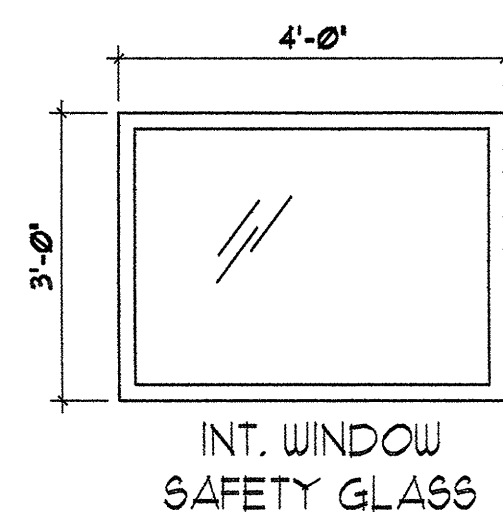
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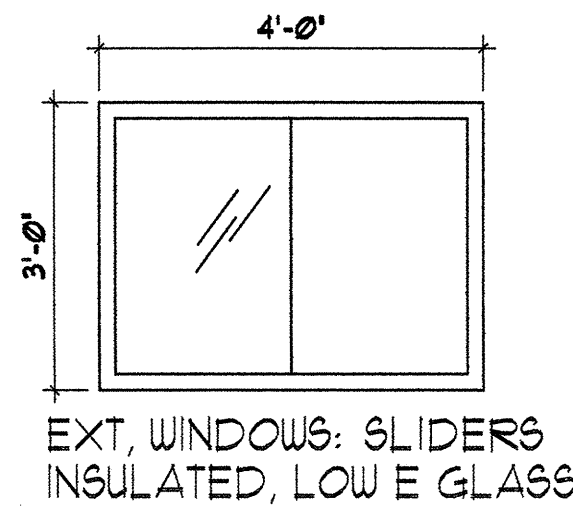
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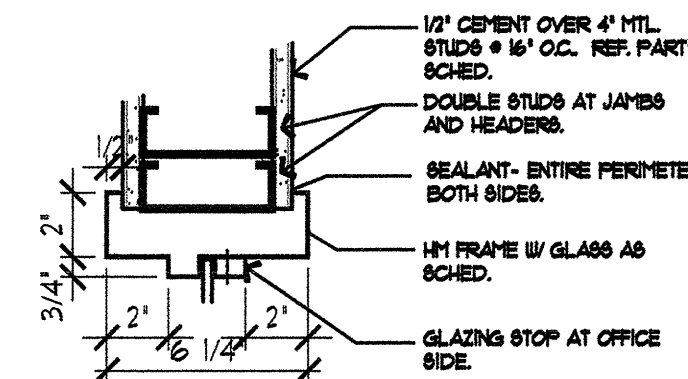
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A502



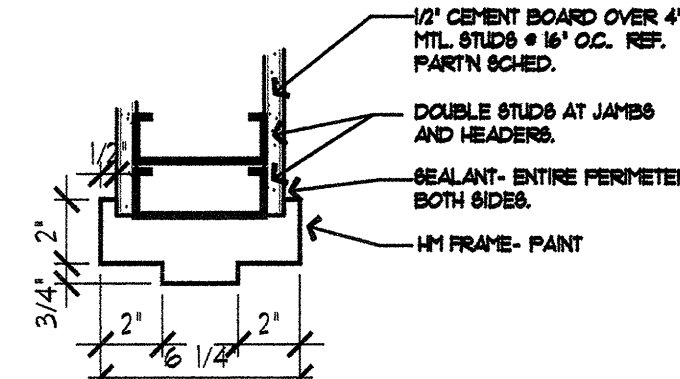
E2 INTERIOR WINDOW
1/2" x 1" - 0"



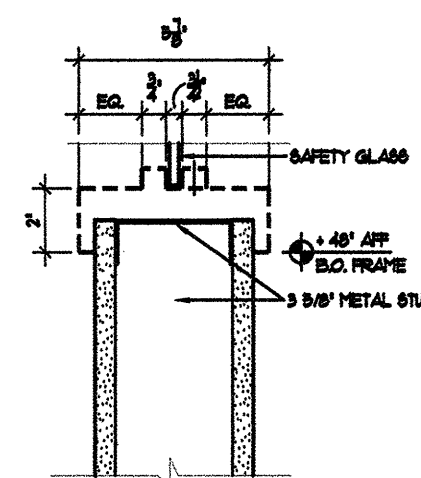
E3 EXTERIOR WINDOWS
1/2" x 1" - 0"



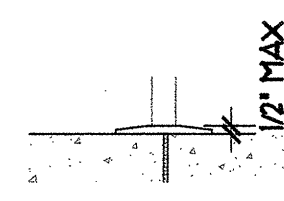
E2 INTERIOR WINDOW DETAIL
1/2" x 1" - 0"



E3 DOOR FRAMES
1/2" x 1" - 0"



E2 INTERIOR WINDOW DETAIL
1/2" x 1" - 0"

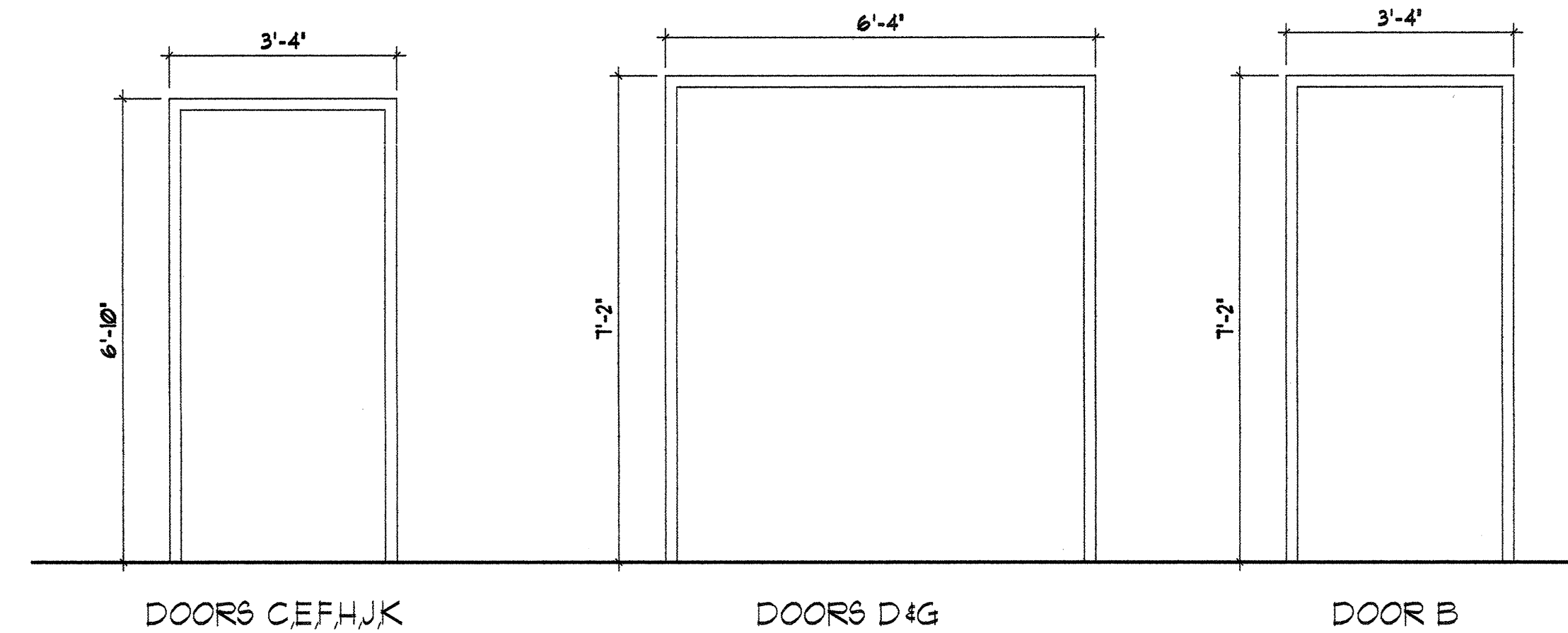


E3 EXT. DOOR THRESHOLDS
1/2" x 1" - 0"

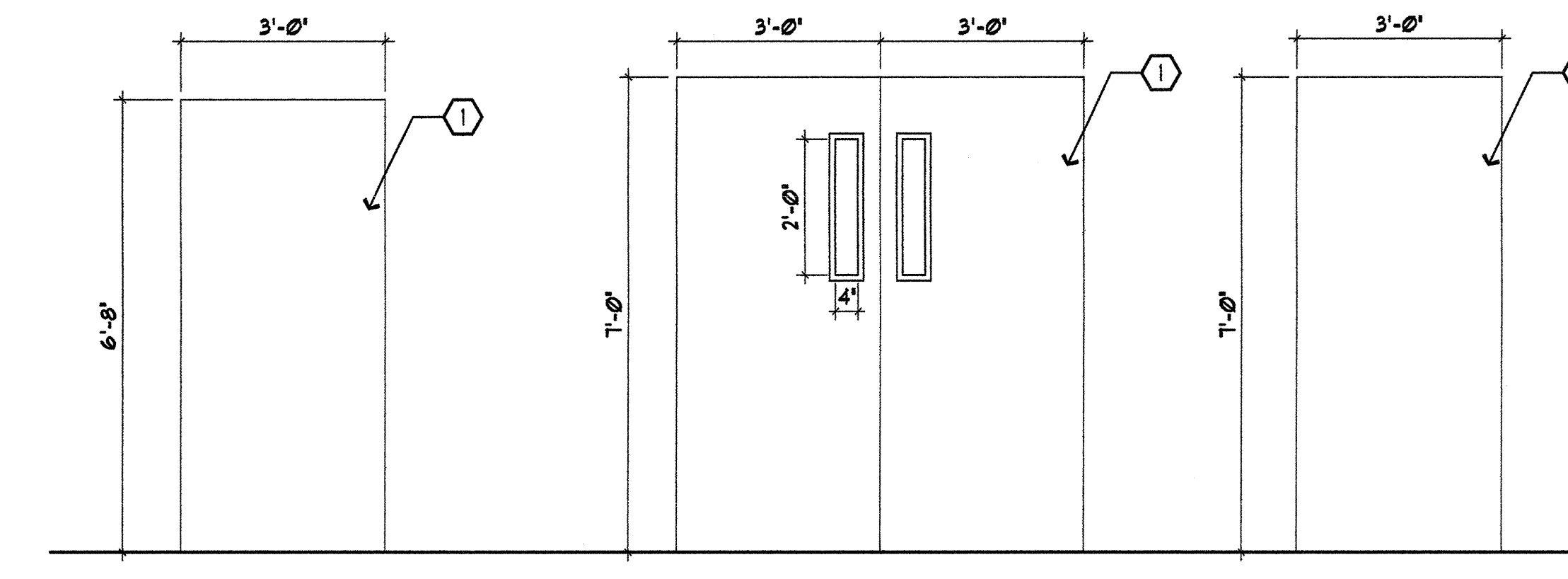
DOOR, FRAME AND HARDWARE SCHEDULE

Door Mark	Width	Height	Thk	Frame Mat.	Type	Gl	Details Mat.	Type	Gl	HARDWARE	Remarks
A	10'x10'		N/A	HM	A-	M				DOOR PACKAGE BY MANUFACTUR	ROLL UP DOOR
B	3684		1.75	HM	A-	HM				H(3), ED, RC, SC, KP, WS, TH, DW, WS, RD	
C	3680		1.75	HM	A-	HM				H(3), STL, SC, KP, SW, SS	
D	3684		1.75	HM	A-	HM				H(3), M, ED, MC, RC, SC, KP, WS, TH, DS, WS, RD, WS@M	DOUBLE DOORS
E	3680		1.75	HM	A-	HM				H(3), EL, WS, SIL	
F	3680		1.75	HM	A-	HM				H(3), EL, WS, SIL	
G	3684		1.75	HM	A-	HM				H(3), M, ED, MC, RC, SC, KP, WS, TH, D WS, RD, WS@M	DOUBLE DOORS
H	3680		1.75	HM	A-	HM				H(3), PLP, P&P, SC, KP, WS, SIL	
J	3680		1.75	HM	A-	HM				H(3), CL, KP, WS, SIL	
K	3680		1.75	HM	A-	HM				H(3), PLP, P&P, SC, KP, WS, SIL	

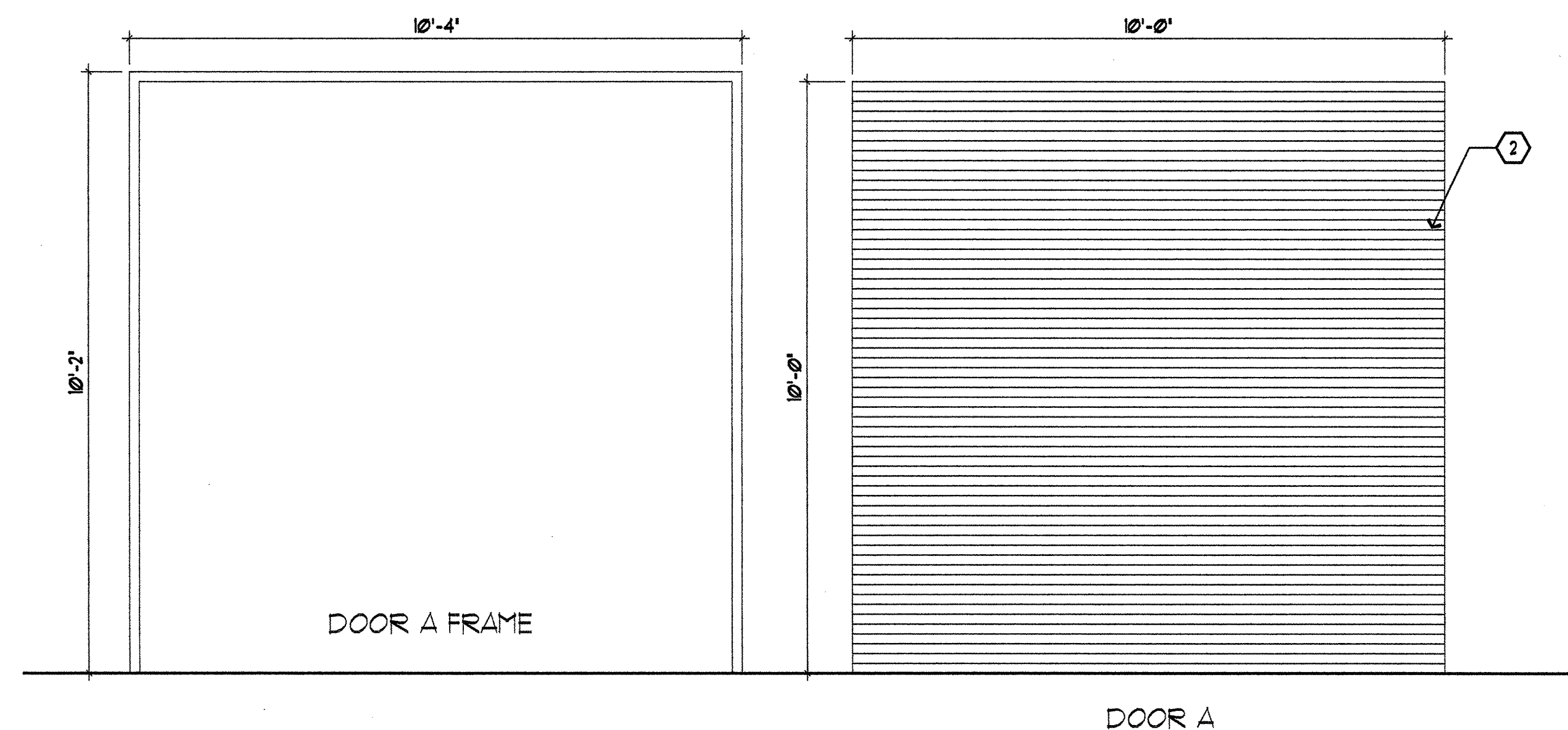
H-HINGES (NUMBER), ED-EXIT DEVICE, RC-RIM CYLINDER, SC-SURFACE CLOSER, KP-KICKPLATE, WS-WALL STOP, TH-THRESHOLD, DS-DOOR SWEEP, WS-WEATHER STRIPPING, RD-RAIN DRIP, STL-STOREROOM LOCK, SS-SMOKE SEAL, M-MULLION, EL-ENTRANCE LOCK, SIL-SILENCER, PLP-PULL PLATE, P&P-PUSHPLATE, SEE DETAILED HARDWARE SPECS.



E4 DOOR FRAMES
1/2" x 1" - 0"



E4 DOORS
1/2" x 1" - 0"

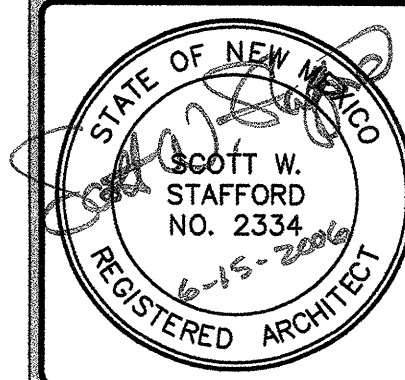


E4 DOOR 'A' FRAME
1/2" x 1" - 0"

E5 DOOR 'A'
1/2" x 1" - 0"

KEYED NOTES:

- HM DOORS, HEAVY DUTY, FULL FLUSH, PRIME AND PAINT ALL SWING DOORS AND ALL FRAMES. SUBMIT PAINT SAMPLES TO ARCHITECT FOR APPROVAL.
- ROLLING DOOR, INTEGRAL COLOR. SUBMIT COLOR SAMPLES FOR ARCHITECT'S APPROVAL.



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SHEET TITLE
WINDOWS
DOORS
SCHEDULES

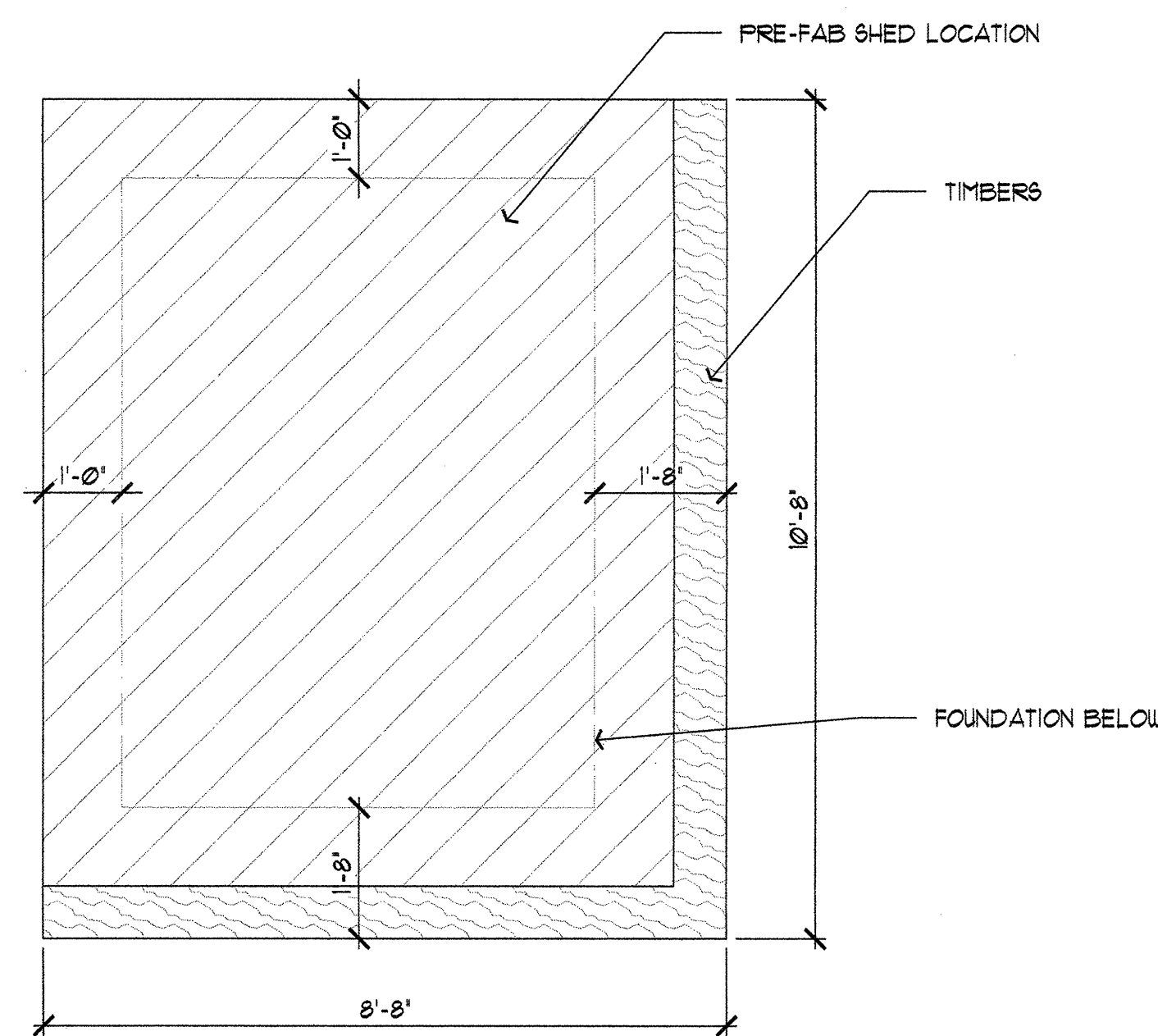
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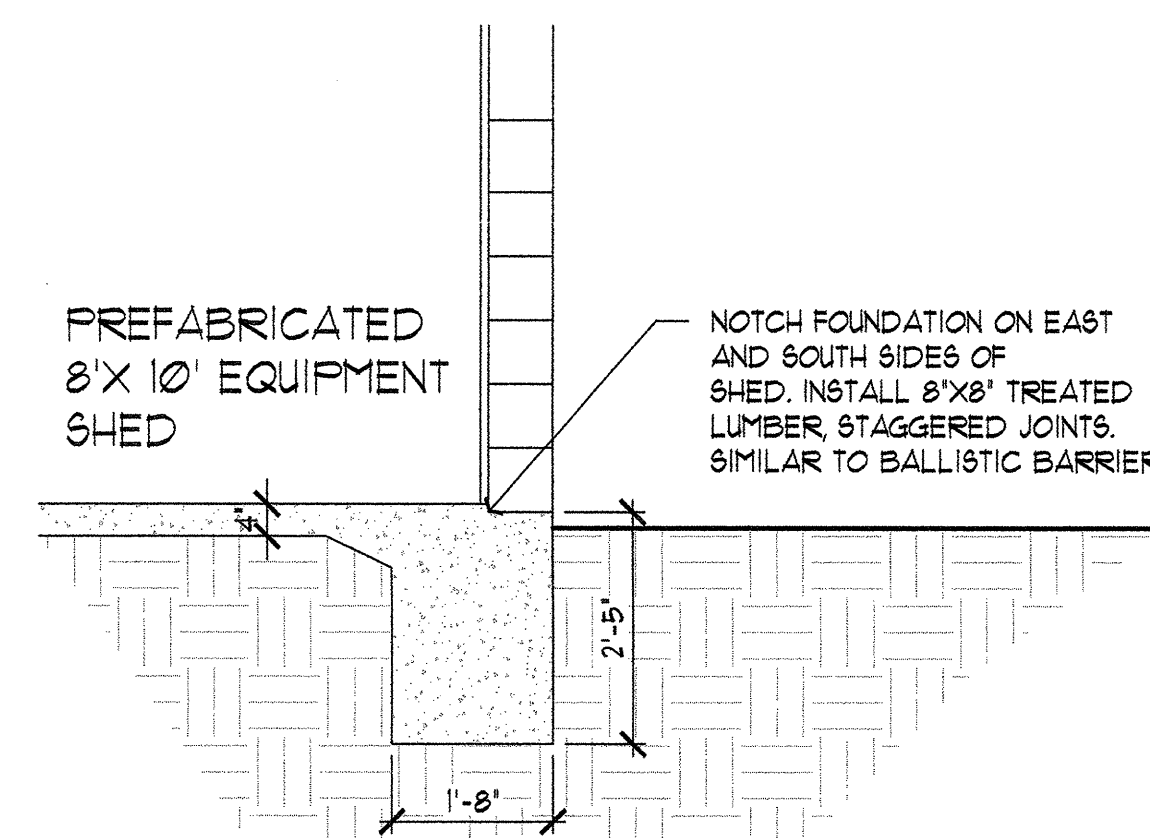
PROJECT NO.
235-02

DRAWING SHEET

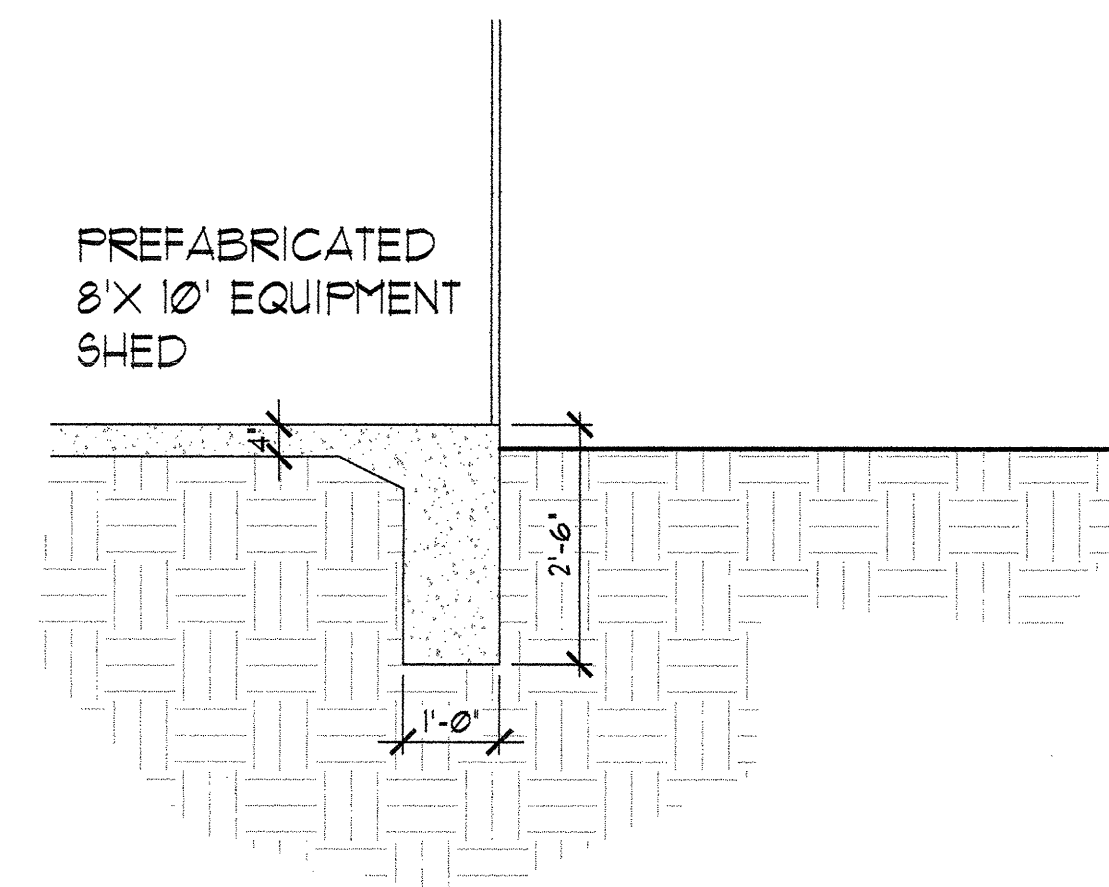
A503



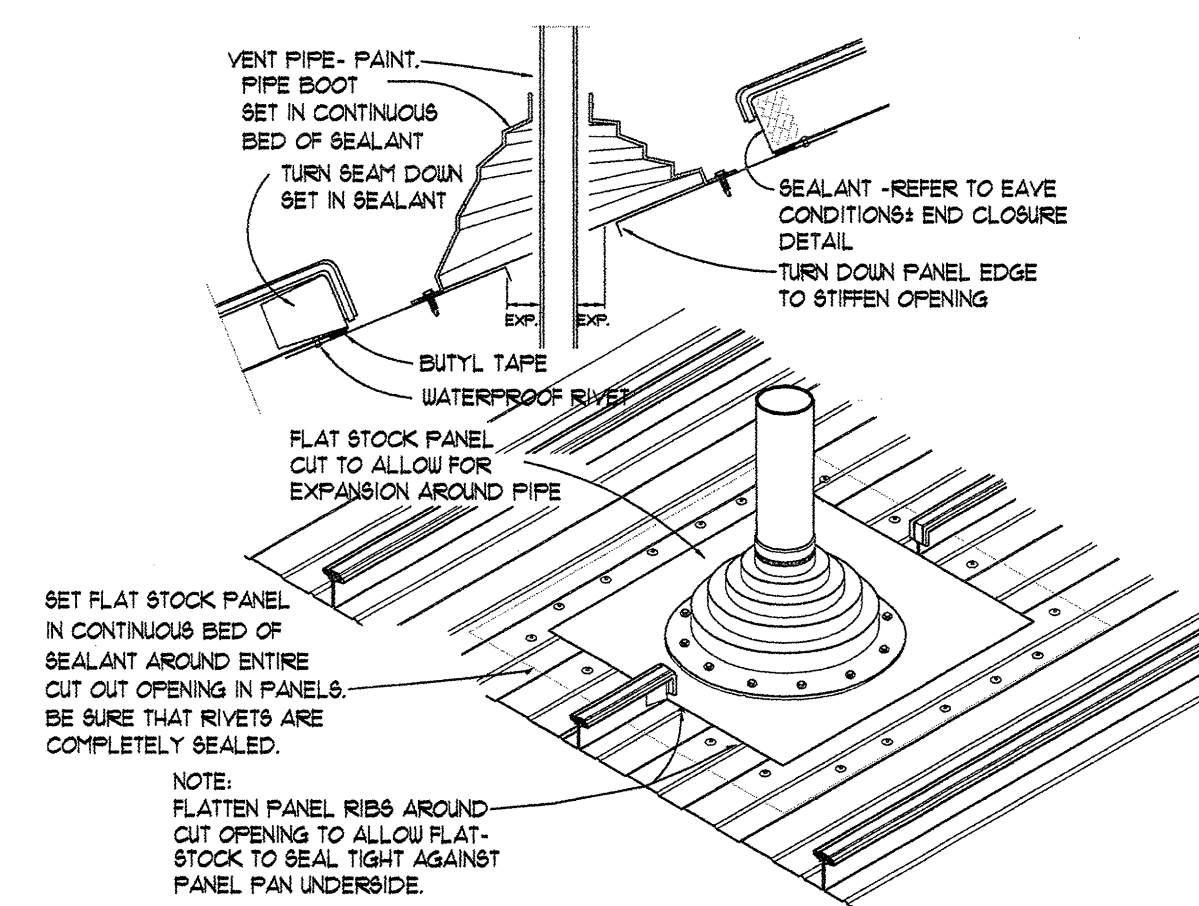
D2 SHED BASE
1/2"=1'-0"



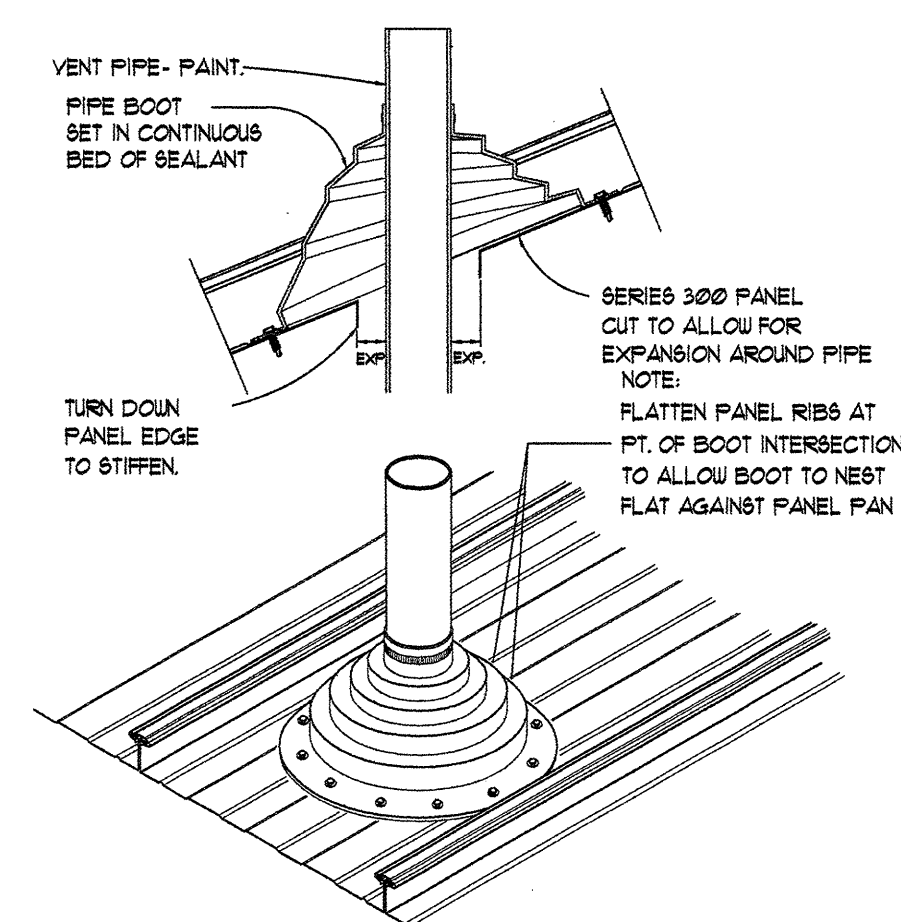
E3 SHED FOUNDATION - EAST/SOUTH
1/2"=1'-0"



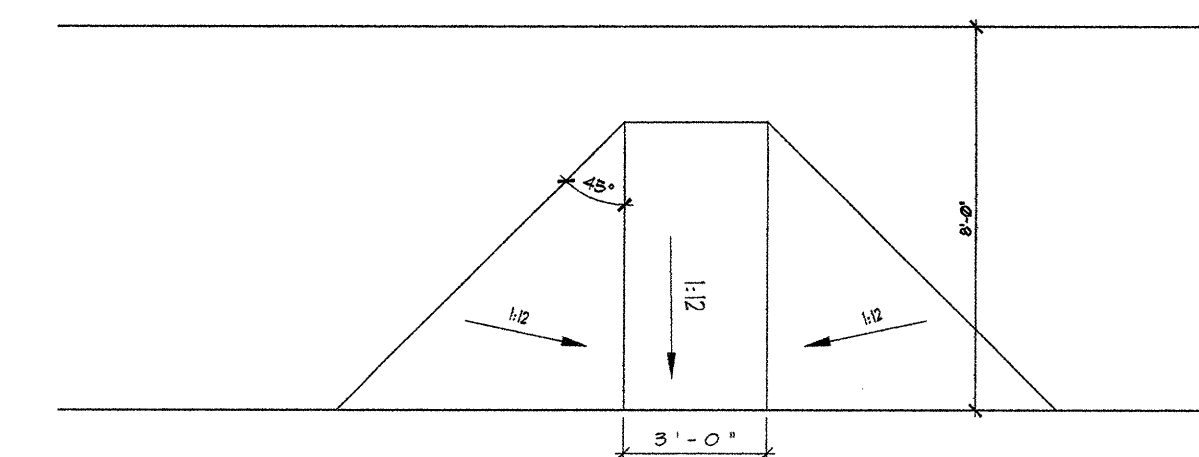
D3 SHED FOUNDATION - WEST/NORTH
1/2"=1'-0"



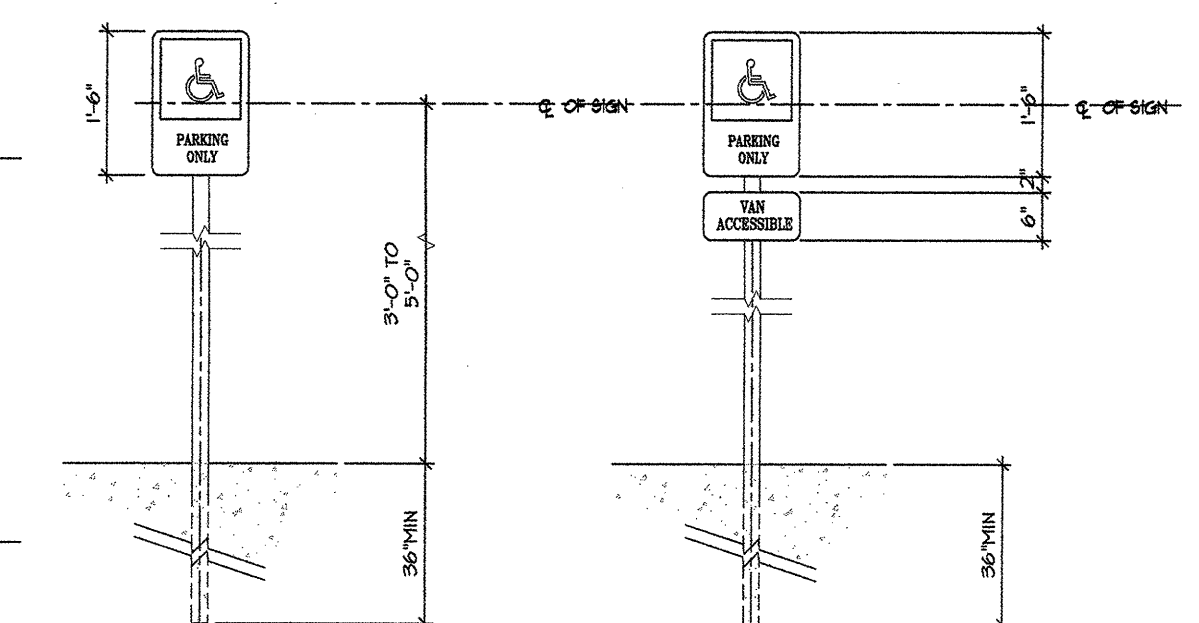
B4 ROOF PENETRATION
1/2"=1'-0"



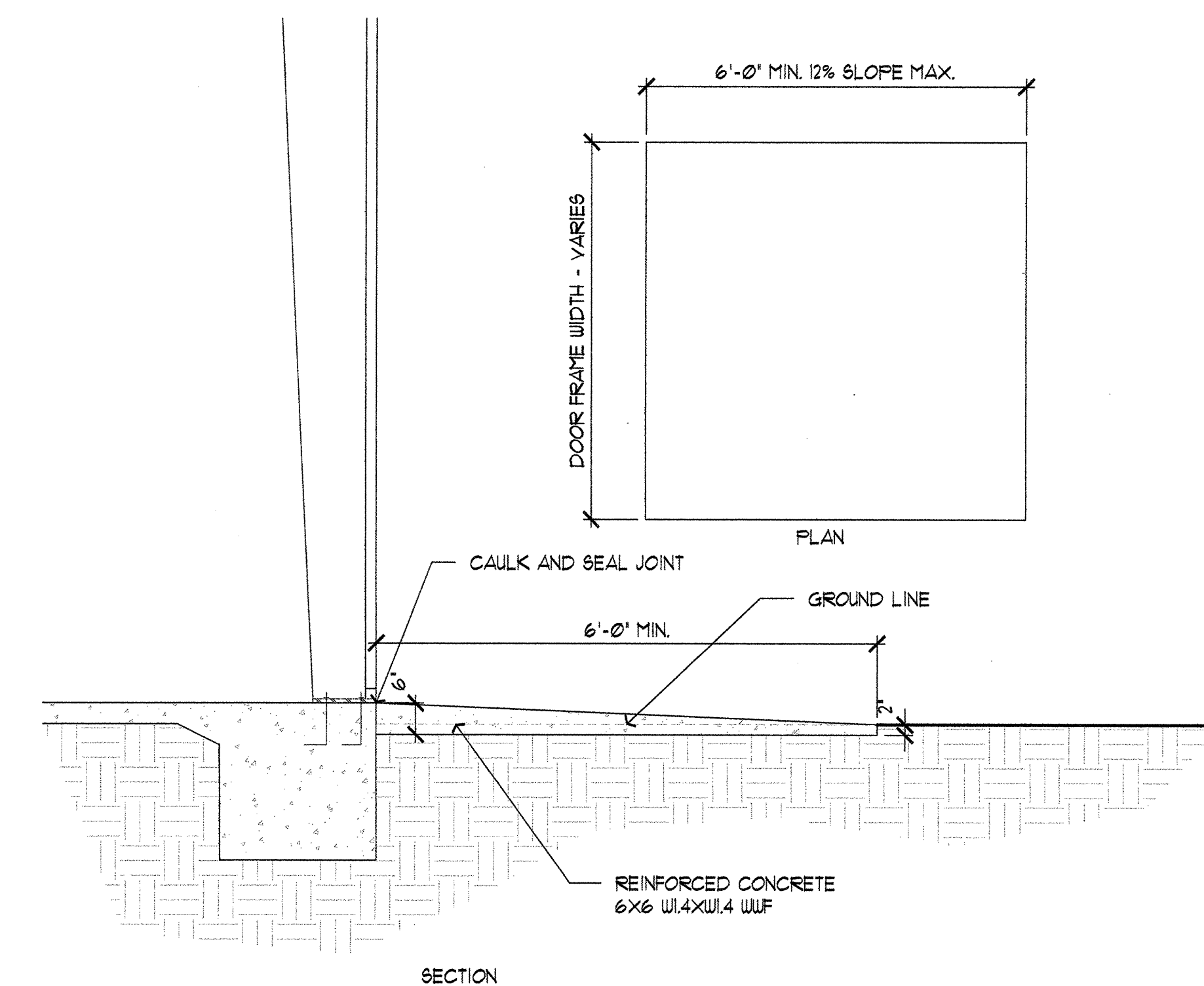
A3 ROOF PENETRATION
1/2"=1'-0"



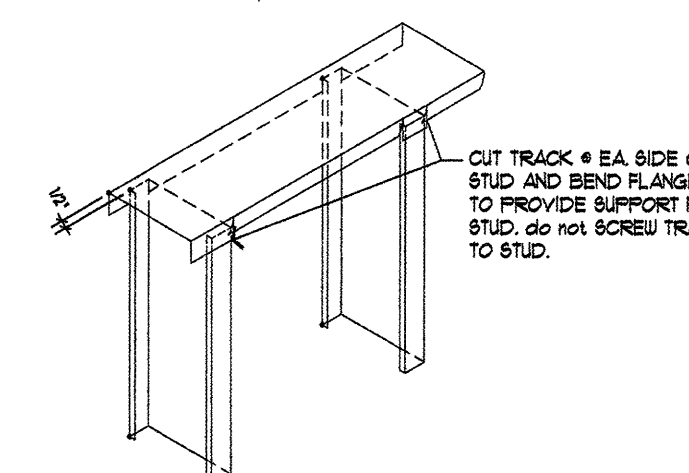
D5 BUILDING SIDEWALK HC RAMPs
1/2"=1'-0"



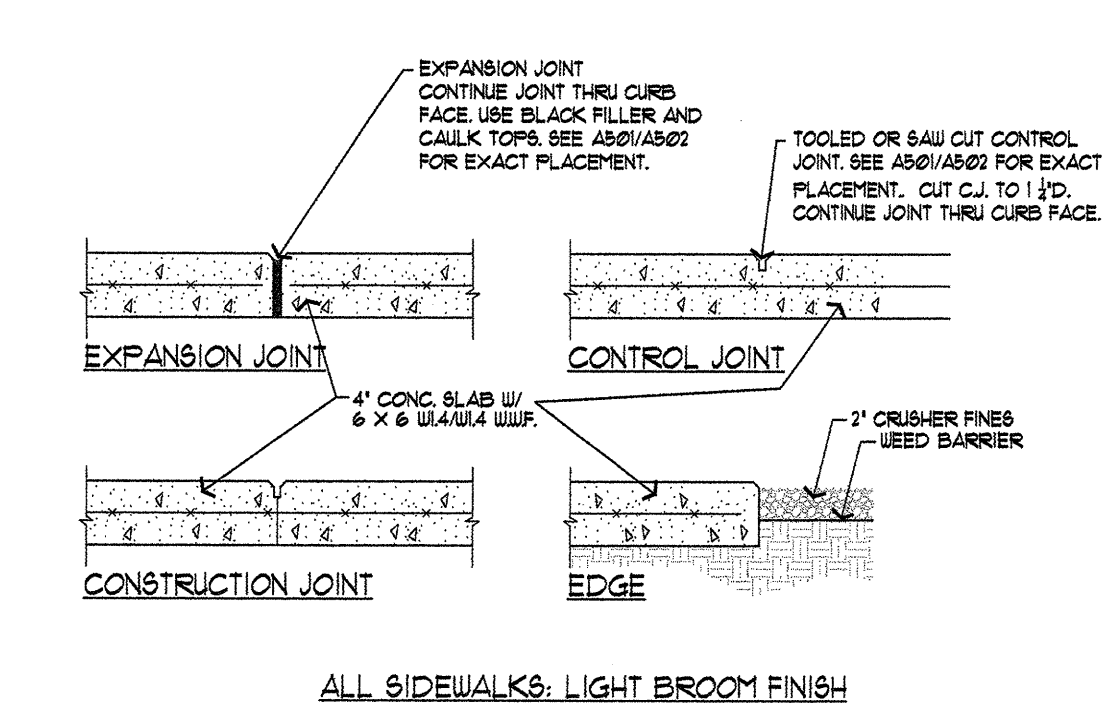
D6 BUILDING SIDEWALK HC SIGNS
1/2"=1'-0"



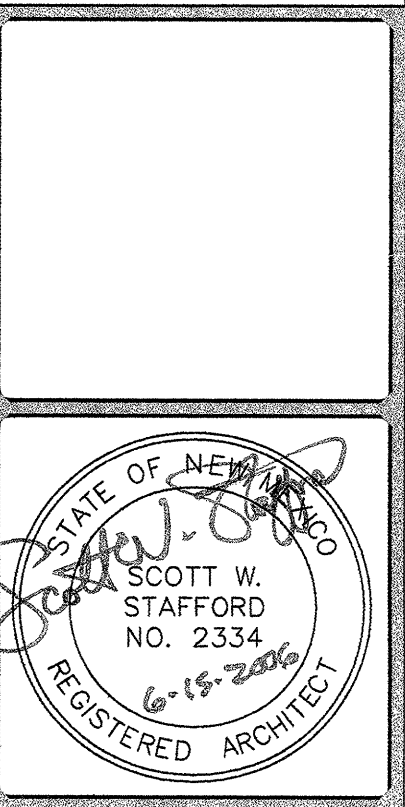
B5 AUXILIARY RAMP DETAIL
1/2"=1'-0"



A5 SLIP TRACK
1"=1'-0"



A6 RANGE SIDEWALK DETAIL
1"=1'-0"



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DATE	15 JUNE 2006
PROJECT NO.	2915.02
DRAWING SHEET	A801

1. CODES AND MANUALS:
 INTERNATIONAL BUILDING CODE, 2003 EDITION, AISC-7
 AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION
 AISI COLD FORMED STEEL MANUAL, 1986 EDITION
 ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318-95
 AWS D11 AND D13

2. DESIGN CRITERIA:
 A. VERTICAL:
 LIVE LOAD
 ROOF
 DEAD
 20 PSF (SNOW)
 ACTUAL COMPONENT WEIGHT

B. HORIZONTAL:
 (1) WIND IBC SIMPLIFIED WIND LOAD METHOD
 $P_e = 1.1 W P_{s30}$
 30 MPH
 BASIC WIND SPEED (3 SEC)
 EXPOSURE
 IMPORTANCE FACTOR (I_w)
 HT. EXPOSURE ADJUSTMENT FACTORS (1 X)
 10
 $0-15'$ 121
 $15-20'$ 129
 $20-25'$ 139

(2) SEISMIC
 SOIL SITE CLASS
 IMPORTANCE FACTOR
 SPECTRAL ACCELERATION:
 SHORT PERIOD
 1-SECOND
 $I_m = 1.0$
 $S_s = 0.25$
 $S_1 = 0.160$

SITE EFFECT:
 SHORT PERIOD
 1-SECOND
 $F_a = 1.36$
 $F_v = 2.30$

DESIGN SPECTRAL RESPONSE ACCELERATION:
 SHORT PERIOD
 1-SECOND
 $S_{ds} = 0.50$
 $S_{d1} = 0.21$

BASE SHEAR
 SEISMIC RESPONSE FACTOR
 SEISMIC FORCE
 $V = 12 \times S_{ds} \times W / R$
 $= 23$
 $V = 0.24 \times W$

C. ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF

- A. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
- B. SHOP DRAWINGS SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP DRAWINGS WILL BE REJECTED AND SHALL BE RESUBMITTED.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.
- D. TEMPORARY PROVISIONS SHALL BE MADE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION.
- E. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL OPENINGS IN FLOORS, ROOF, WALLS AND BEAMS WITH THE INDIVIDUAL TRADES.
- F. NOTCHING OR CUTTING ANY STRUCTURAL MEMBER IN THE FIELD IS PROHIBITED.
- G. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF FOUNDATIONS UNDER MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED. NO CONCRETE PADS SHALL BE LOCATED ON ROOF UNLESS SHOWN ON STRUCTURAL DRAWINGS.
- H. REMOVAL OF FORMS AND SHORING SHALL BE IN ACCORDANCE WITH ACI 347.

A. CAST-IN-PLACE CONCRETE:

- (1) ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301-96.
- (2) ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A $\frac{3}{4}$ " CHAMFER UNLESS NOTED OTHERWISE.
- (3) NORMALWEIGHT CONCRETE:
 - A. FC = 4000 PSI @ 28 DAYS (AIR ENTRAINED) - ALL EXPOSED EXTERIOR CONCRETE FLAT WORK (I.E. SLABS, EQUIPMENT PADS, ETC.).
 - B. FC = 3600 PSI @ 28 DAYS (AIR ENTRAINED) - ALL INTERIOR CONCRETE (I.E. ROOFING, FIELDS, ETC.).
 - C. FC = 3000 PSI @ 28 DAYS - ALL INTERIOR SLABS.
- (4) THE CONTRACTOR SHALL NOT CAST FOUNDATIONS, GRADE BEAMS OR RETAINING WALLS AGAINST EXCAVATED VERTICAL SIDE SURFACES WITHOUT PRIOR APPROVAL.

- (3) ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-95) AND THE STANDARD MANUAL (ACI 318-92).
- (4) ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 EXCEPT STIRRUPS, TIES AND FIELD-BENT BARS WHICH SHALL CONFORM TO ASTM A615 GRADE 40.
- (5) ALL SLABS SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS.
- (6) WHERE LAPPED SPICES IN REINFORCING OCCUR, THE MINIMUM LAP SHALL BE MADE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
 - A. VERTICAL REINFORCING: 30 BAR DIA. OR 18" MINIMUM
 - B. HORIZONTAL REINFORCING: 30 BAR DIA. OR 18" MINIMUM
- (7) ALL HORIZONTAL REINFORCING IN GRADE BEAMS AND WALLS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP A MINIMUM OF 30 BAR DIAMETERS OR 18 INCHES.
- (8) CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
 - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
 - B. CONCRETE EXPOSED TO EARTH OR WEATHER:
 - 1. BARS LARGER THAN NO. 5: _____"
 - 2. BARS NO. 5 OR SMALLER: _____1 1/2"
- (9) FORM TIES SHALL BE EITHER OF THE THREADED OR SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN 1 INCH OF THE SURFACE OF THE WALL.
- (10) BAR SUPPORTS AND SPACERS FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH ACI 318-92. CHAIRS WITH 22 GA. SAND PLATES OR PRECAST BLOCKS SHALL BE PROVIDED FOR ALL REINFORCING OF CONCRETE IN CONTACT WITH GRADE. REINFORCING SHALL BE SECURELY TIED TO SUPPORTS.
- (11) REINFORCING SHALL NOT BE TACK WELDED OR WELDED IN ANY MANNER UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS.

1. GENERAL

A. A SUBSURFACE SOIL INVESTIGATION HAS BEEN MADE BY VINEYARD & ASSOCIATES. A REPORT OF THAT INVESTIGATION DATED MAY 22, 2006 IS AVAILABLE FOR VIEWING AT THE OFFICE OF THE ARCHITECT.

B. ADDITIONAL INFORMATION CONCERNING SPECIFIC SOIL CONDITIONS TO BE ENCOUNTERED IS AVAILABLE IN THE SOILS REPORT AND SHOULD BE REVIEWED.

A. THE CONTRACTOR WILL EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL ENGINEER TO OBSERVE ALL CONTROLLED EARTHWORK. GEOTECHNICAL ENGINEER SHALL PROVIDE CONTINUOUS ON-SITE OBSERVATION BY EXPERIENCED PERSONNEL DURING INITIAL EXCAVATION, PLACEMENT AND COMPACTION OF STRUCTURAL FILL, AND FOUNDATION EXCAVATIONS. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST TWO WORKING DAYS IN ADVANCE OF ANY FIELD OPERATIONS REQUIRING OBSERVATION.

B. TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING MINIMUM RATES:

1. ONE FIELD DENSITY TEST PER EACH 2500 SQUARE YARDS OF COMPACTED SUBGRADE PRIOR TO PLACING STRUCTURAL FILL WITH A PLAIN OF 3 TESTS.
2. ONE FIELD DENSITY TEST PER EACH 1500 CUBIC YARDS OF STRUCTURAL FILL, PLACED OR EACH HORIZONTAL LAYER OF STRUCTURAL FILL, WHICHEVER IS GREATER.
3. ONE FIELD DENSITY TEST PER EACH 2500 SQUARE FEET OF BUILDING AREA.
4. ONE MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED, AS INDICATED BY SIEVE ANALYSIS AND PLASTICITY INDEX.

C. THE GEOTECHNICAL ENGINEER SHALL SUBMIT THE RESULTS OF ALL REQUIRED TESTS.

- A. REMOVE ALL BRUSH, RUBBISH, GRASS, AND GRASS ROOTS TO A DEPTH OF SIX INCHES FROM THE CONSTRUCTION AREA FOR A DISTANCE OF FIVE FEET OUTSIDE BUILDING LINES.
- B. REMOVE STUMPS, MATTED ROOTS AND ROOTS LARGER THAN 2 INCHES IN DIAMETER WITHIN 12 INCHES OF THE SURFACE OF AREAS ON WHICH FILL AND/OR CONCRESE SHALL BE CONCRETE.
- C. REMOVE ALL TOPSOIL FROM THE CONSTRUCTION AREA. THIS MATERIAL SHALL NOT BE USED AS FILL MATERIAL, BUT MAY BE STOCKPILED AND LATER USED IN THE TOP 6 INCHES OF FILL OUTSIDE THE BUILDING PAD.

- A. A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO CONFIRM COMPLETE EXCAVATION OF ANY UNCONTROLLED FILL OR SOFT AREAS, OVEREXCAVATE THE ENTIRE BUILDING AREA TO REMOVE ALL EXISTING FILL AND SOFT AREAS. OVEREXCAVATION SHALL EXTEND 3' BELOW SLAB & FOOTINGS AND Laterally BEYOND THE PERIMETER OF THE FOOTINGS A MINIMUM OF (5) FEET PILE.
- C. SCARIFY ALL EXPOSED SUBGRADE SOILS TO A DEPTH OF 12 INCHES, MOISTEN TO OPTIMUM MOISTURE CONTENT (+/- 2%) AND COMPACT TO THE SPECIFIED DENSITY HEREINAFTER.
- D. PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN EIGHT (8) INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (+/- 2%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.

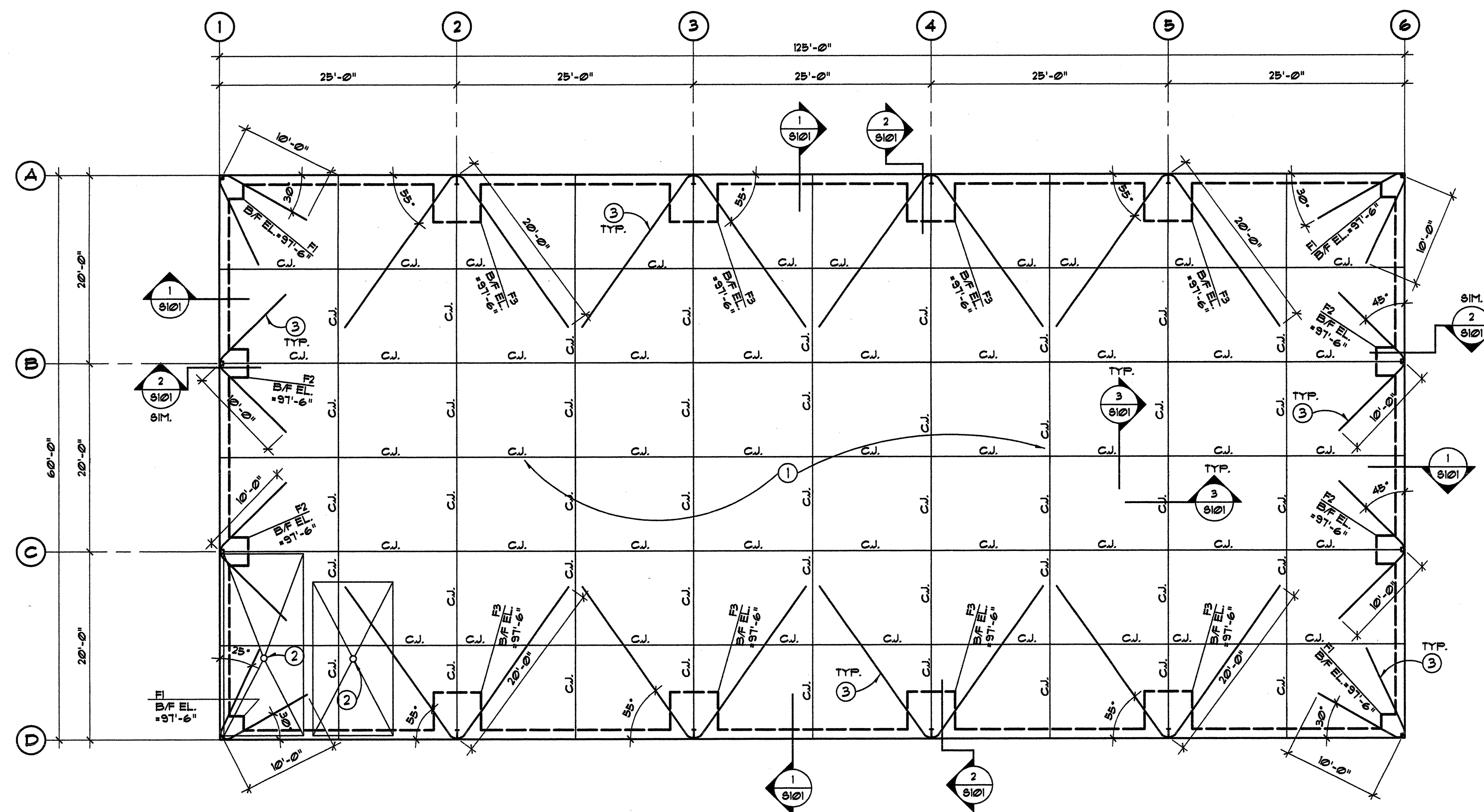
SIEVE SIZE	PERCENT PASSING BY WEIGHT
1"	90-100
4"	100
NO. 4	70-100
NO. 200	10-40

C. MATERIAL LARGER THAN 3 INCHES SHALL NOT BE PLACED IN THE STRUCTURAL FILL.

D. NO BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE MATERIAL SHALL BE PLACED IN THE STRUCTURAL FILL. MATERIAL SHALL BE PLACED IN SUCH A MANNER AS TO RESULT IN A UNIFORMLY COMPACTED FILL.

A. SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D 1557 MAXIMUM DRY DENSITY AT +/- 3% OPTIMUM MOISTURE CONTENT.

MATERIAL	MINIMUM PERCENT COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95
SUBBASE FOR SLAB SUPPORT	95
SUBGRADE BELOW STRUCTURAL FILL	95
MISCELLANEOUS BACKFILL	90



FOUNDATION PLAN
SCALE: 1/8"=1'-0"

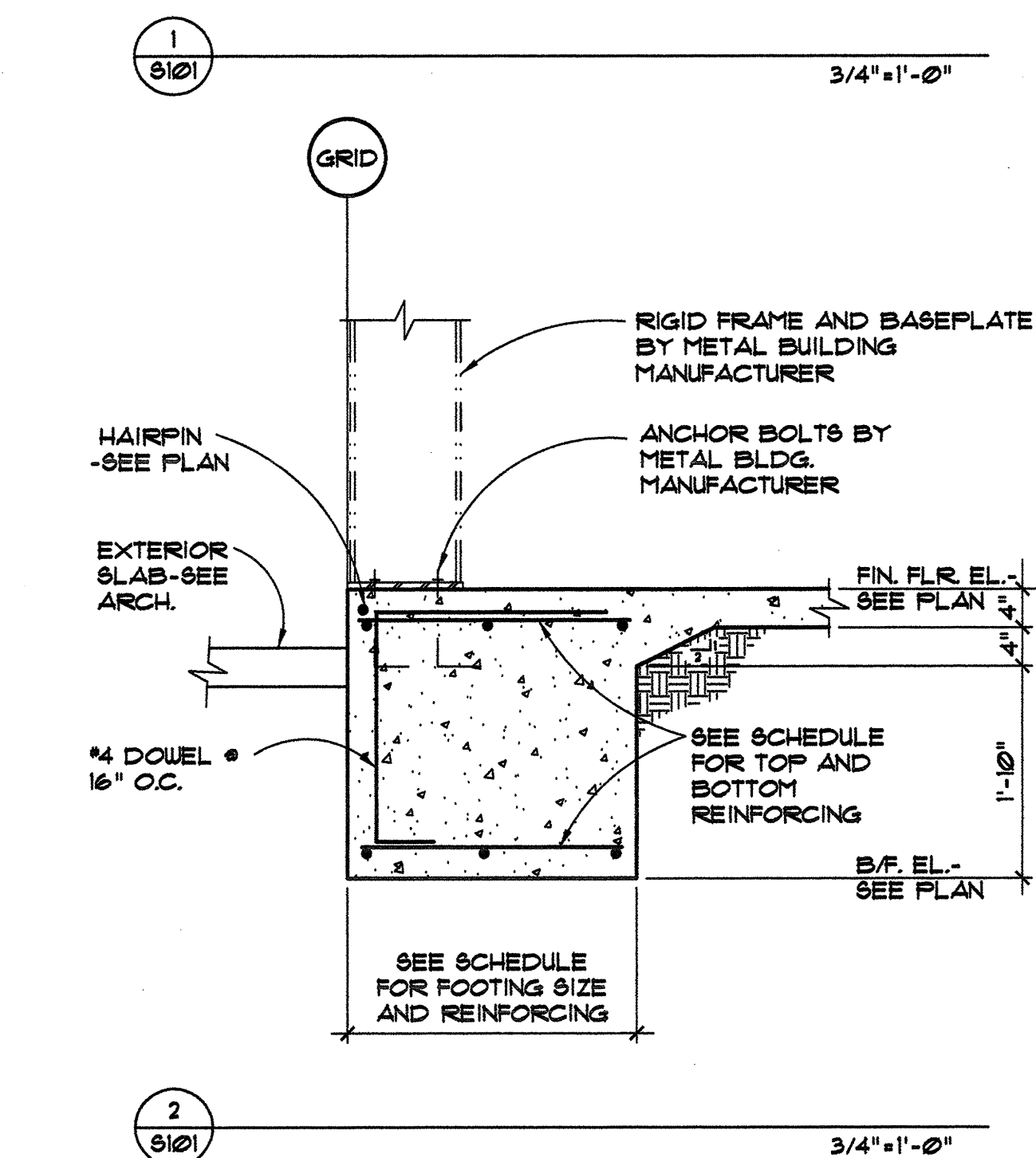
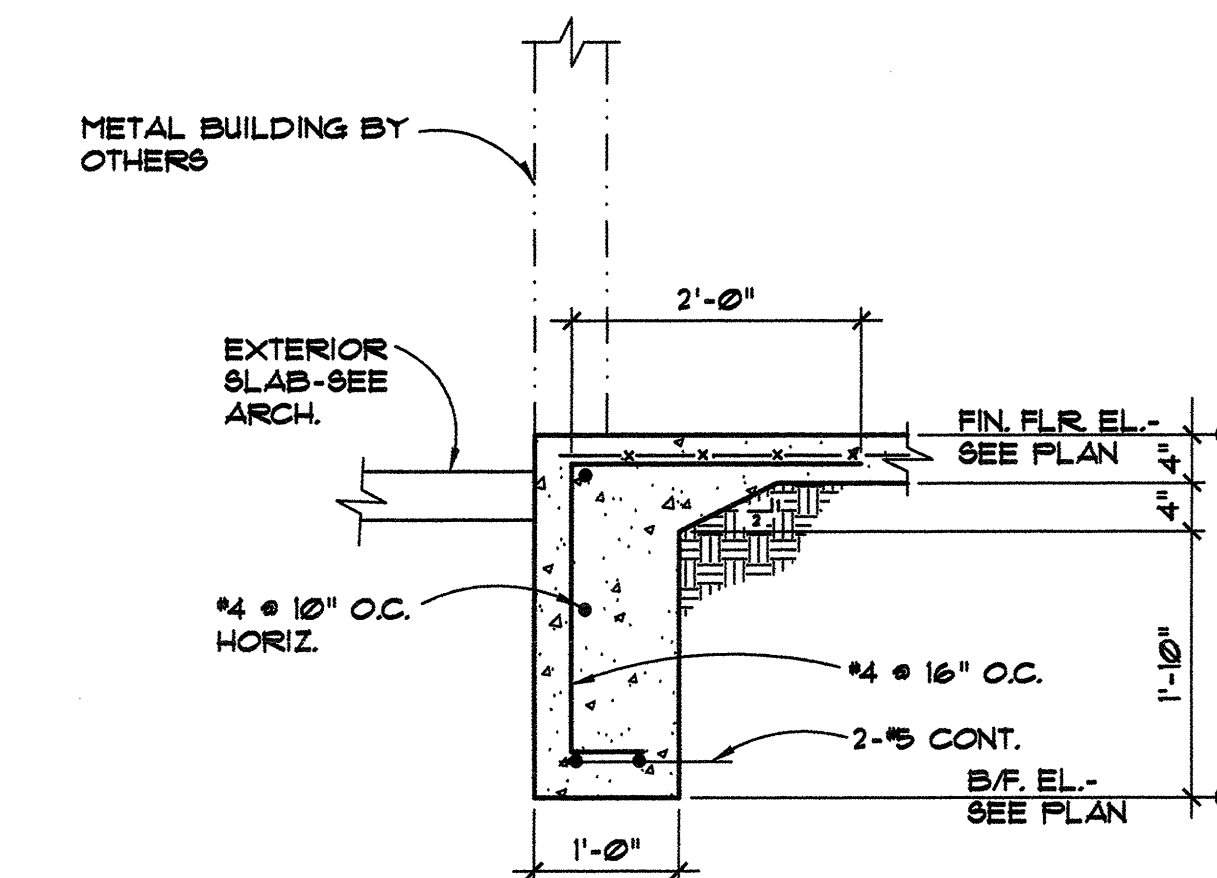
MARK	SIZE	REINFORCING
F1	2'-6" SQ. x 2'-6" DP.	3-#5 ELL. TOP & BOTT.
F2	3'-0" SQ. x 2'-6" DP.	3-#5 ELL. TOP & BOTT.
F3	5'-0" SQ. x 2'-6" DP.	3-#5 ELL. TOP & BOTT.

GENERAL NOTES

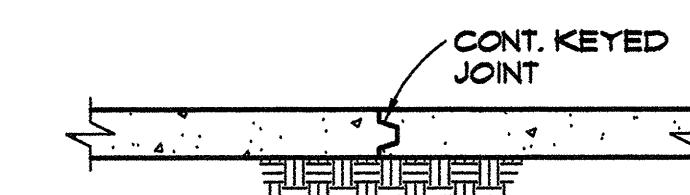
- DIMENSIONS ARE TO FACE OF CONCRETE UNLESS NOTED OTHERWISE.
- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- C.J. INDICATES CONTROL JOINTS IN THE SLAB. CONSTRUCT PER 3/8/01.

KEYED NOTES

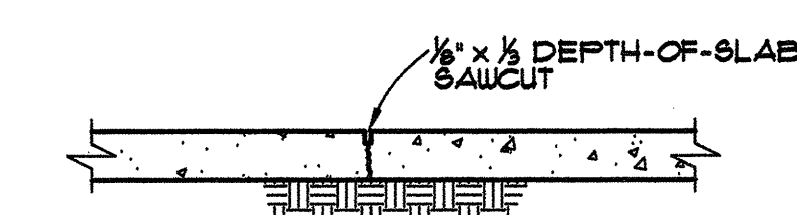
- 4" THICK 4000 PSI, AIR-ENTRAINED CONCRETE SLAB ON COMPACTED SUBGRADE. REINFORCE WITH POLYPROPYLENE FIBERS AS RECOMMENDED BY THE MANUFACTURER.
- FLOOR DRAIN, SLOPE SLAB TO DRAIN 1/8" PER FOOT. COORDINATE EXACT LOCATION WITH ARCHITECTURAL AND PLUMBING DRAWINGS.
- #4 HAIRPIN BAR @ METAL BUILDING COLUMN. LOCATE AT THE CENTER OF THE SLAB.



NOTE: AT CONTRACTOR'S OPTION A PLASTIC JOINT FORMER MAY BE INSTALLED INSTEAD OF THE SAWCUT.



AT END OF FOUR



AT SAWCUT

3 TYPICAL CONTROL JOINT (C.J.) 3/4" x 1'-0"

MECHANICAL SCHEDULE

AC-1 AIR CONDITIONING UNIT: COMPLETE PACKAGE UNIT FOR GROUND INSTALLATION WITH MOUNTING RAIL, UL LISTED ELECTRIC HEATING SECTION WITH SINGLE POINT CONNECTION. UNIT SHALL HAVE ALL SAFETY CONTROLS. COOLING SECTIONS SHALL INCLUDE R-22 REFRIGERANT, STARTERS, RELAYS TRANSFORMERS, LOW AMBIENT OPERATING KIT, CRANKCASE HEATERS. PROVIDE WITH ECONOMIZER. SUPPLY FANS SHALL BE INTERNALLY ISOLATED WITH ADJUSTABLE V-BELT DRIVES. FAN COMPARTMENTS SHALL HAVE 1 INCH ACOUSTIC INSULATION. FILTERS SHALL BE 2 INCH THICK IN PERMANENT FRAMES, AND SHALL BE RENEWABLE MEDIA. FURNISH ONE YEAR COMPRESSOR WARRANTY FOR ALL UNITS. VOLTAGE = 208/230V-1PH. UNITS SHALL ALL BE DESIGNED TO FM STANDARDS. FURNISH ONE STAGE THERMOSTAT WITH "FAN, AUTO- OFF, ON", AND "OFF-AUTO-COOL" FOR UNIT. PROVIDE FACTORY WIRED SUPPLY SMOKE DETECTOR FOR UNIT. COOLING CONDITIONS ARE AT 80°/ 67° AND 105° AMBIENT. CARRIER MODEL 50GL IS LISTED. CARRIER, OR YORK ARE APPROVED EQUALS.

SYMBOL	MODEL	CFM	ESP	KW	HEATING COOLING	TOTAL SENS. COOLING	MCA	HP	WEIGHT
AC-1	024	800	0.4"	7.5	22.3	16.4	47.6	1/4	350 #

EF-1 EXHAUST FAN: CEILING MOUNTED EXHAUSTER AMCA CERTIFIED WITH ACOUSTICALLY LINED GALVANIZED HOUSING, DIRECT DRIVE MOTOR, CENTRIFUGAL WHEEL AND WHITE FINISHED GRILLE. PROVIDE WITH BACKDRAFT DAMPER, DUCT COLLAR, DISCONNECT, WALL CAP AND THERMAL OVERLOAD PROTECTION. GREENHECK MODELS AS LISTED, ACME AND COOK ARE APPROVED EQUAL.

SYMBOL	CFM	ESP	VOLTAGE	AMPS	RPM	SONES	MODEL
EF-1	391	0.125"	110V.-1PH	1.34	1350	5.4	SP-A390

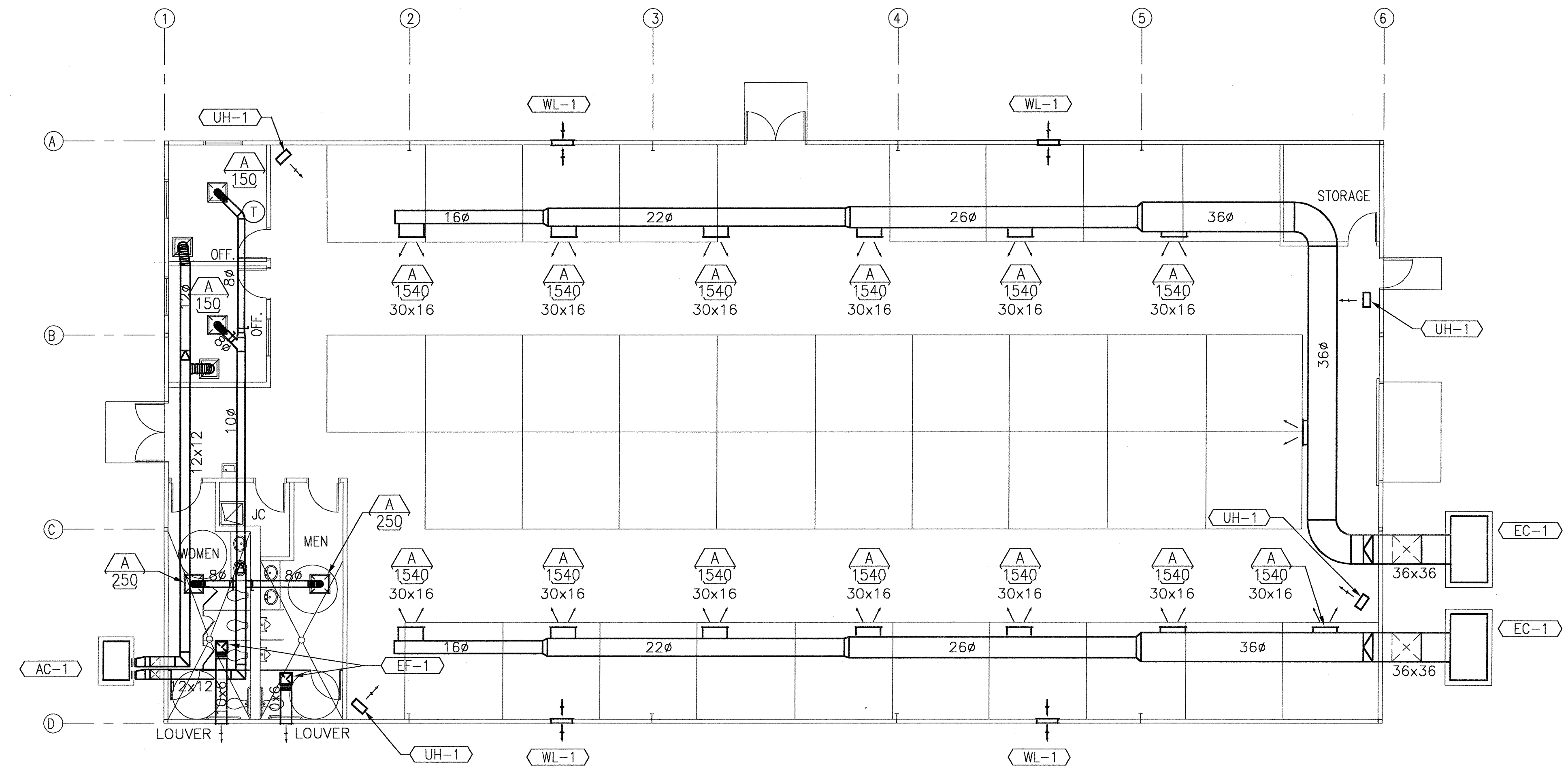
EC-1 EVAPORATIVE COOLER: UNIT SHALL BE SIDE DISCHARGE CABINET, BLOWER HOUSING AND CENTRIFUGAL FAN CONSTRUCTED OF HOT DIPPED GALVANIZED STEEL WITH BLOWER HOUSING AND MOTOR MOUNTS TREATED WITH A RUST INHIBITING UNDERCOATING. THE WATER RESERVOIR SHALL BE OF 18 GAUGE STEEL WITH WELDED SEAMS AND THE INTERIOR TREATED WITH A RUST INHIBITING UNDERCOATING. THE FAN SHALL BE FORWARD CURVED CENTRIFUGAL, STATICALLY BALANCED WITH BLADES CONSTRUCTED OF 18 GAUGE STEEL, WITH SELF-OILING SELF ALIGNING BEARINGS. MOTOR SHALL BE MOUNTED ON AN ADJUSTABLE BASE WITH AN ADJUSTABLE V-BELT MOTOR SHEAVE. THE EVAPORATIVE MEDIA SHALL BE 12" THICK CELL DECK MEDIA MOUNTED IN A METAL FRAME AND ENCLOSED IN A METAL FRAME. PROVIDE TDK BLEED OFF KIT WITH DRAIN PUMP, OVERFLOW TUBE AND ELECTRICAL BOX, PLASTIC HOUSED CENTRIFUGAL PUMP[110V.-1PH]. WATER SHALL BE SUPPLIED WITH A FLOAT VALVE. UNIT SHALL BE AMCA CERTIFIED AND FLEX CONNECTED TO DUCTWORK WITH A SLIDE DAMPER AND WINTER CLOSURE PANELS. PROVIDE PRE-COOLER AS AN ALTERNATE BID ITEM. CHAMPION, PHOENIX, MASTERCOOL OR APPROVED EQUAL AS FOLLOWS:

SYM.	CFM	ESP	HP	VOLTAGE	SPEEDS	WEIGHT	MODEL
EC-1	10775	0.5"	5	208V.-3PH	1	739	AS100

UH-1 ELECTRIC FIRED SUSPENDED UNIT HEATER: PROVIDE WITH CONTROL TRANSFORMER 24V, THERMOSTAT WITH LOCKING METAL COVER. PROVIDE DISCONNECT, TOTALLY ENCLOSED FAN MOTOR, WALL HANGER KIT FOR MOUNTING CLOSE TO CEILING, FAN ONLY SWITCH. REZNOR EGE AS LISTED OR APPROVED EQUAL AS FOLLOWS:

SYM.	MODEL	CFM	KW	H.P.	VOLTAGE
UH-1	15	1040	15	1/10	208V.-3PH

WL-1 WALL LOUVER: GREENHECK MODEL EAD-401 FOR METAL BUILDING INSTALLATION, WITH ADJUSTABLE LOUVER WITH DRAIN GUTTERS IN HEAD MEMBER AND HORIZONTAL BLADES TO CHANNEL WATER. ALUMINUM CONSTRUCTION AND INSECT SCREEN. PROVIDE FOR GRAVITY DAMPER RELIEF. 36"x36"



① MECHANICAL FLOOR PLAN
1/8" = 1' - 0"

OUTLINE MECHANICAL SPECIFICATIONS

- ALL MECHANICAL WORK SHALL BE PROVIDED AND INSTALLED IN CONFORMANCE WITH THE 2003 UNIFORM MECHANICAL CODE.
- ALL DUCTWORK SHALL BE METAL WITH GAUGES AS REQUIRED BY THE CODE. FLEX DUCT SHALL BE LIMITED TO A MAXIMUM OF FIVE FEET IN LENGTH.
- DUCTWORK SHALL BE INSULATED WITH 1/2" FIBERGLASS DUCT WRAP AND SEALED BUTTED JOINTS. DUCTWORK SHALL BE SEALED AIRTIGHT. DUCTWORK INSTALLED EXPOSED IN THE SPACE NEED NOT BE INSULATED.
- CONTRACTOR SHALL COORDINATE ALL EQUIPMENT INSTALLATIONS TO AVOID CONFLICTS AND MAINTAIN ACCESS AND SERVICEABILITY.
- CONTRACTOR SHALL FURNISH ALL NECESSARY STRUCTURES, SLEEVES AND HANGING DEVICES FOR INSTALLATION OF EQUIPMENT.
- CONTRACTOR SHALL PROVIDE ALL PERMITS AND INSPECTIONS REQUIRED BY CODE.
- A WRITTEN ONE YEAR WARRANTY FOR ALL LABOR AND MATERIALS PROVIDED SHALL BE PROVIDED.

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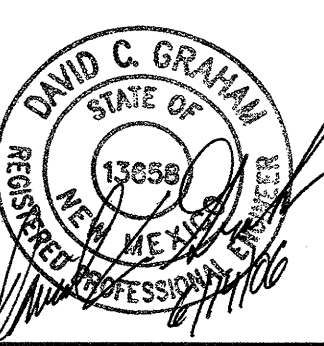
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BUILDING "B"
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REVISION	DATE
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DATE	15 JUNE 2006
PROJECT NO.	2915.02
DRAWING SHEET M101	



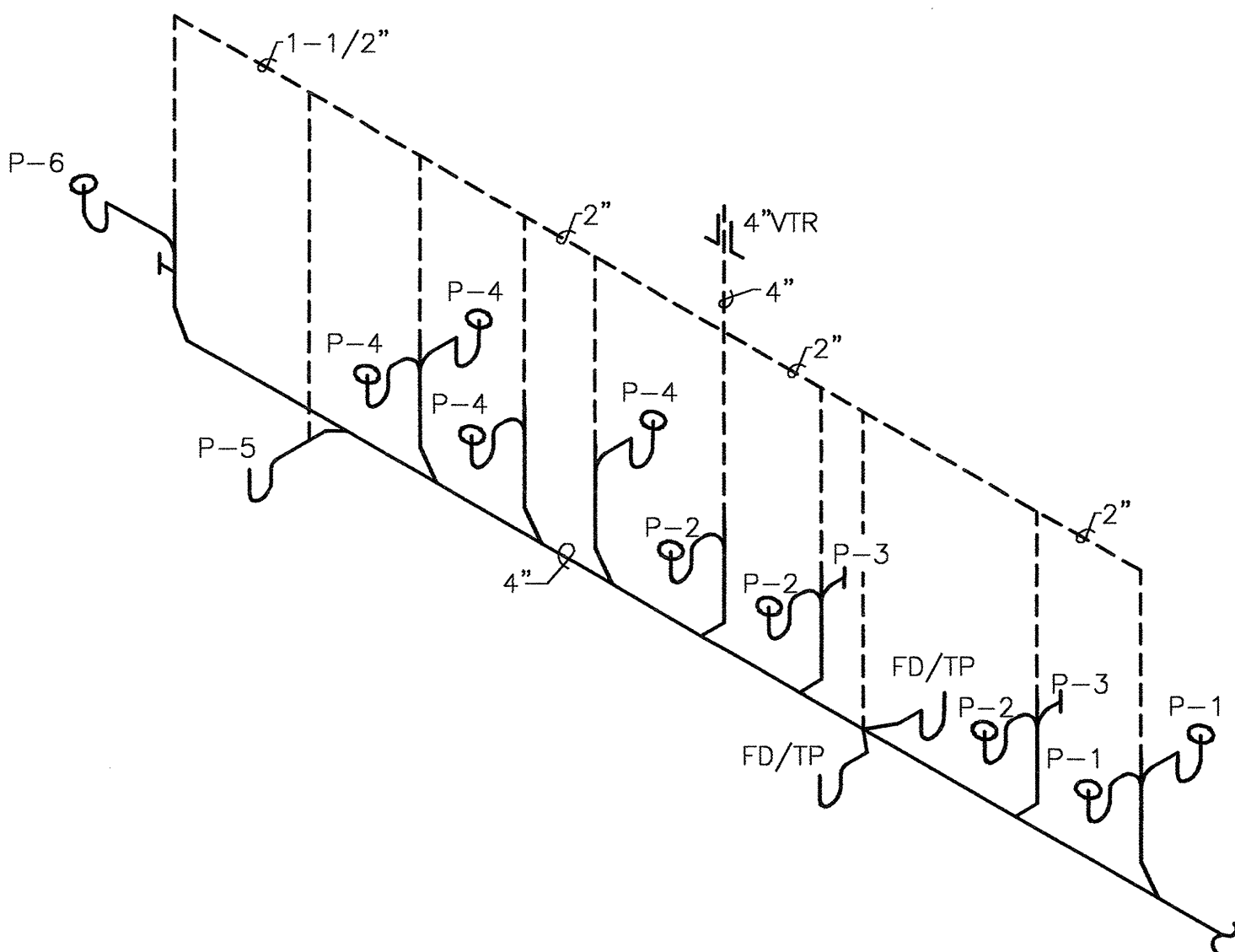
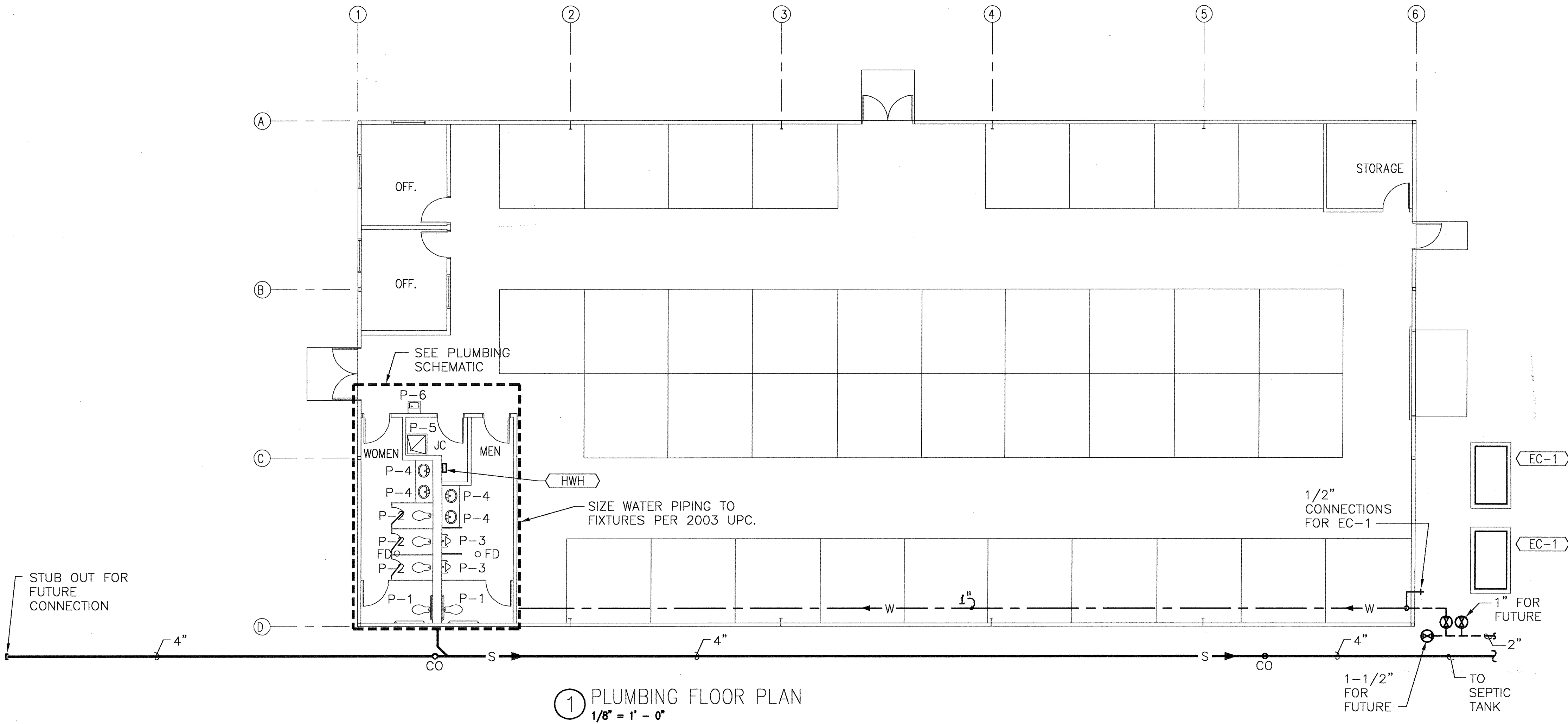
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PLUMBING FIXTURE SCHEDULE

- P-1 WATER CLOSET[HANDICAPPED]: AMERICAN STANDARD MODEL 2998.012 ADA VITREOUS CHINA FLOOR MOUNTED 1.6 GPF WATER CLOSET WITH ELONGATED BOWL, CLOSE COUPLED TANK AND SOLID PLASTIC OPEN FRONT SEAT LESS COVER. PROVIDE ANGLE WALL STOP. 1/2" C.W., 4" WASTE, 2" VENT.
- P-2 WATER CLOSET: AMERICAN STANDARD MODEL 2998.012 VITREOUS CHINA FLOOR MOUNTED 1.6 GPF WATER CLOSET WITH ELONGATED BOWL, CLOSE COUPLED TANK AND SOLID PLASTIC OPEN FRONT SEAT LESS COVER. PROVIDE ANGLE WALL STOP. 1/2" C.W., 4" WASTE, 2" VENT.
- P-3 URINAL [HANDICAPPED]: AMERICAN STANDARD 6601.012 VITREOUS CHINA WALL HUNG 1.0 GPF URINAL WITH 3/4" INLET, WALL HANGER, AND SIPHON JET ACTION. PROVIDE SLOAN ROYAL 180-1, 1.0 GPF FLUSH VALVE. 3/4" C.W., 2" WASTE, 1-1/2" VENT
- P-4 LAVATORY [HANDICAPPED]: AMERICAN STANDARD 0491.019 COUNTERTOP LAVATORY WITH FAUCET LEDGE, 5502.142H CENTERSET METAL LEVER HANDLE FAUCET AND GRID DRAIN. PROVIDE P-TRAP, TAILPIECE, ANGLE WALL STOPS, AND INSULATE WATER AND WASTE WITH TRU-BRO PIPE WRAP SYSTEM. 1/2" C.W., 1/2" H.W., 2" WASTE, 1-1/2" VENT.
- P-5 JANITORS SINK: FIAT MODEL MSB 2424 MOLDED STONE FLOOR SINK WITH MOP BRACKET, BUMPER GUARDS, MODEL 830-AA SERVICE FAUCET WITH VACUUM BREAKER AND WALL BRACE, HOSE AND HOSE BRACKET, 3" DRAIN BODY. 1/2" C.W., 1/2" H.W., 3" WASTE, 2" VENT.
- P-6 ELECTRIC WATER COOLERS[HANDICAPPED]: ELKAY MODEL LISEA-8 WALL HUNG WATER COOLER WITH STAINLESS STEEL TOP, CHROME PLATED NON-SQUIRT BUBBLER ADA COMPLIANT, UNIT SHALL PROVIDE 8.0 GPH OF 50°F DRINKING WATER AT 90°F AMBIENT AIR TEMP COMPRESSOR SHALL BE 1/5 H.P. 4.8 AMPS AT 110V.-1PH. PROVIDE WALL HANGER AND ANGLE WALL STOPS. 1/2" C.W., 1-1/2" WASTE, 1-1/2" VENT.
- HWH ELECTRIC HOT WATER HEATER: EEMAX 3.5 KW, 110V.-1PH MODEL SP3512, 29AMP INSTANEOUS WATER HEATER WITH INLET FILTER AND OUTLET FLOW RESTRICTOR.
- FD FLOOR DRAIN: ZURN 415 PB WITH TRAP PRIMER CONNECTION.
- TP TRAP PRIMER: ZURN Z-1022
- WCO WALL CLEANOUT: ZURN MODEL Z-1441
- FCO FLOOR CLEANOUT: ZURN MODEL Z-1400

OUTLINE PLUMBING SPECIFICATIONS

1. ALL PLUMBING WORK SHALL BE PROVIDED AND INSTALLED IN CONFORMANCE WITH THE 2003 UNIFORM PLUMBING CODE.
2. WATER PIPING SHALL BE "TYPE L" COPPER WITH WROUGHT COPPER FITTINGS.
3. WASTE AND VENT PIPING SHALL BE INSTALLED WITH SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS.
4. HOT WATER PIPING SHALL BE INSULATED WITH 1/2" FIBERGLASS INSULATION WITH ALL SERVICE JACKET.
5. ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH ANGLE WALL STOPS ON THE WATER LINES AND P-TRAPS AND TAILPIECES ON THE WASTE PIPING.
6. ALL NECESSARY PERMITS AS REQUIRED BY CODE SHALL BE PROVIDED.
7. ALL NEW WATER PIPING SHALL BE TESTED UNDER WORKING PRESSURE AND SHALL SHOW NO DROP IN PRESSURE FOR A PERIOD OF 15 MINUTES.
8. WASTE AND VENT PIPING SHALL BE TESTED BY FILLING THE SYSTEM TO A POINT 10 FEET ABOVE THE HIGHEST OVERFLOW LEVEL AND SHOW NO DROP IN WATER LEVEL FOR 15 MINUTES.
9. ALL WORK PROVIDED BY THE CONTRACTOR SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR.



WASTE / VENT PIPING SCHEMATIC

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PROJECT NO.	2915.02
DRAWING SHEET	P101

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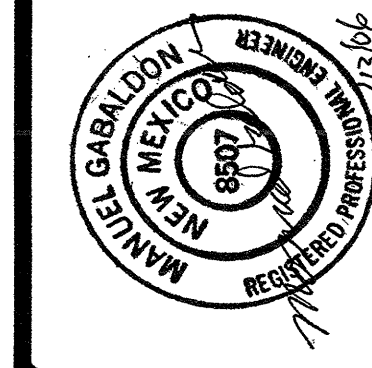
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EXISTING RANGES

PHASE I

KEYED NOTES

- 1-1" CONDUIT FOR FUTURE LIGHTING. COORDINATE STUB-UP LOCATIONS WITH ARCHITECT AND OWNER. STUB-UP CONDUITS 18" ABOVE FINISHED GRADE AND CAP.
- PANEL "PPA".
- 3-2" CONDUITS FOR FUTURE TARGETING SYSTEM. ONE CONDUIT IS FOR DATA. ONE CONDUIT IS FOR LOW VOLTAGE AND ONE CONDUIT IS FOR FUTURE USE. CABLING SHALL BE BY OTHERS.
- 20" x 20" x 10", FLUSH WITH FINISHED GRADE, WEATHERPROOF JUNCTION BOX.
- TWO 10" x 8" x 4", FLUSH WITH FINISHED GRADE, WEATHERPROOF JUNCTION BOX. VERIFY WITH TARGETING SYSTEM MANUFACTURER PRIOR TO ROUGH-IN.
- 2-2" CONDUITS FOR FUTURE TARGETING SYSTEM. VERIFY WITH TARGETING SYSTEM MANUFACTURER PRIOR TO ROUGH-IN.
- 2-3" CONDUITS STUBBED OUT FOR FUTURE BUILDINGS. COORDINATE STUB-OUT LOCATIONS WITH ARCHITECT AND OWNER. STAKE AND IDENTIFY STUB-OUT CONDUIT LOCATIONS.
- STUB OUT 4-4" CONDUITS, 10'-0" PAST PNM TRANSFORMER PAD, CAP AND STAKE LOCATION. CONDUITS ARE FOR FUTURE FEEDS TO ADDITIONAL BUILDINGS.
- 3-2" CONDUITS FOR FUTURE TARGETING SYSTEM. VERIFY WITH TARGETING SYSTEM MANUFACTURER PRIOR TO ROUGH-IN.
- 3" CONDUIT WITH 2 RUNS OF 200/0 AND 100/0 (COMPRESSORS) AND 1 RUN OF 30/10 AND 100/0 (RECEPTS). THESE ARE THE FEEDERS FOR THE COMPRESSORS AND TWO QUAD RECEPTACLES. SMALL VENT EXHAUST FAN SHALL BE FEED OFF RECEPTACLE CIRCUIT #59. KEYED NOTE 11 FOR LOCATION.
- LOCATION OF 2 COMPRESSORS. SEE KEYED NOTE 10.
- INSTALL THE FOLLOWING. TWO (2) QUAD RECEPTACLES IN PORTABLE TOWER AND (2) 10"x6"x4" JUNCTION BOXES. SIZE FEEDER FOR QUAD RECEPTACLES FOR VOLTAGE DROP.



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SHEET TITLE
ELECTRICAL SITE PLAN

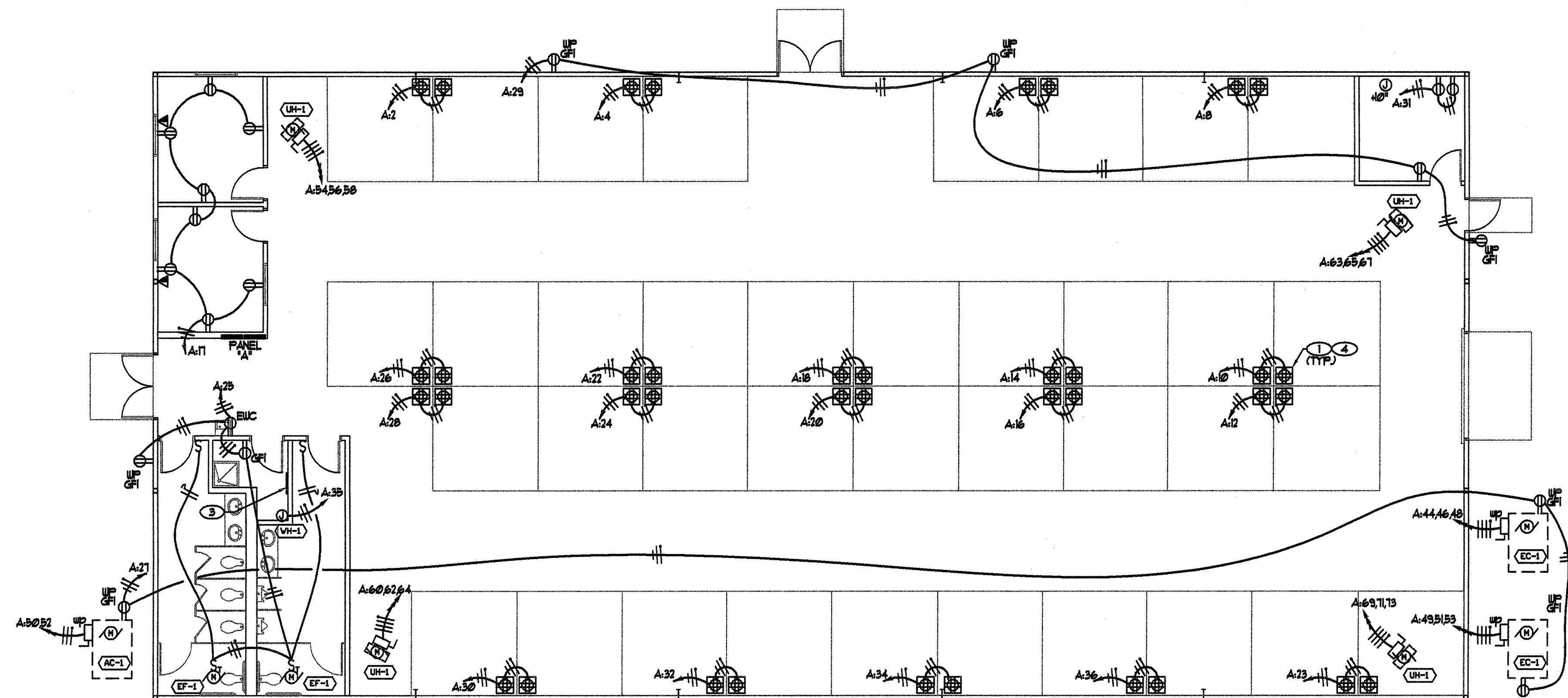
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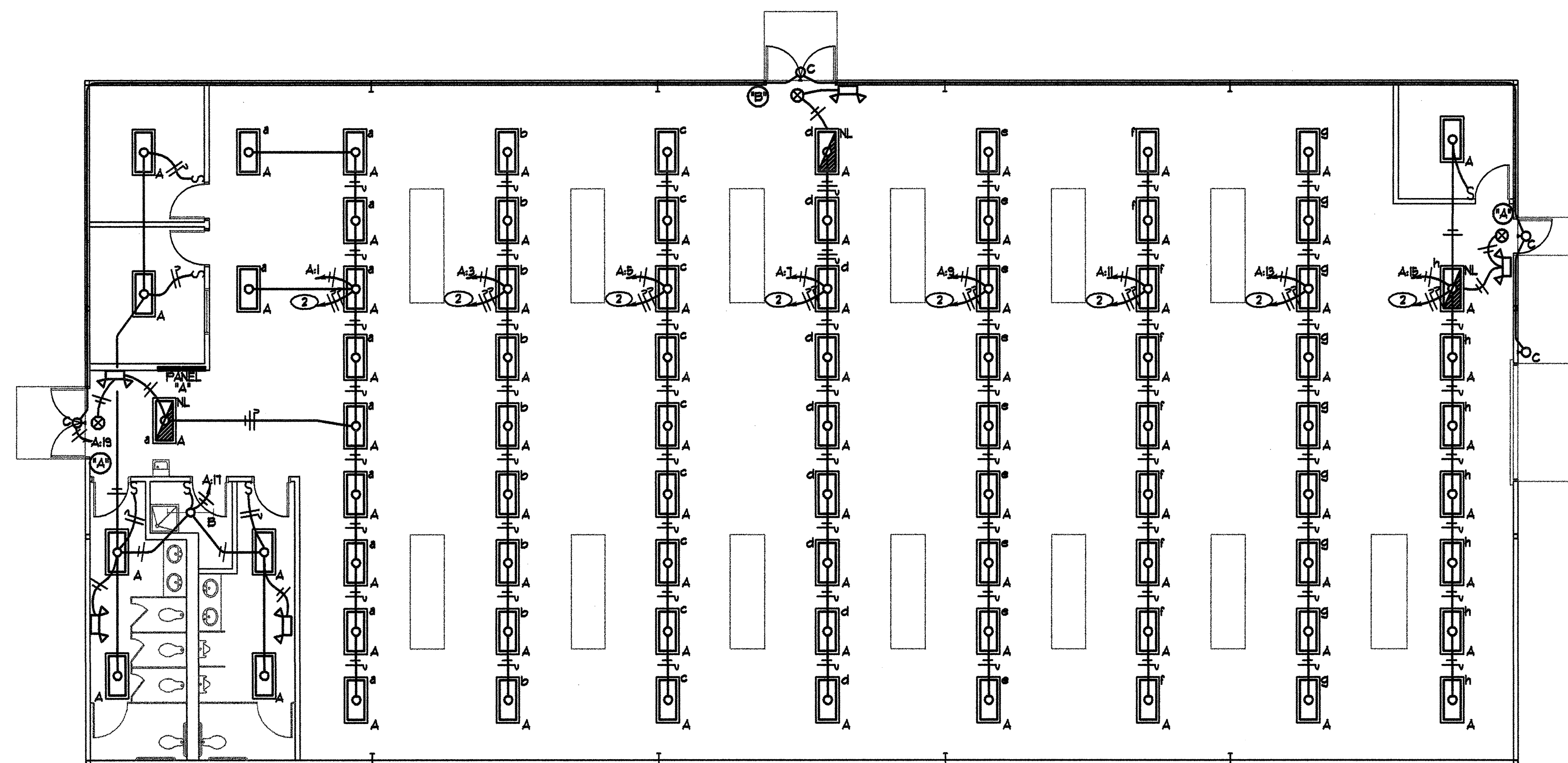
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DRAWING SHEET

E001



① BUILDING "B" - POWER PLAN
1/8" = 1' - 0"



② SWITCHBANK DETAIL ③ SWITCHBANK DETAIL

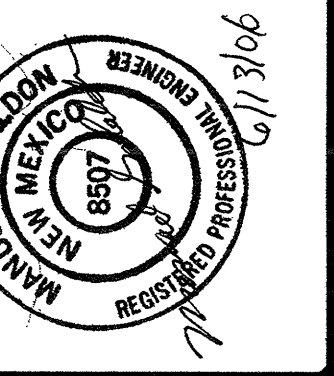
② BUILDING "B" - LIGHTING PLAN
1/8" = 1' - 0"

KEYED NOTES

1. FLUSH WITH FLOOR WEATHERPROOF QUAD RECEPTACLE WITH BRASS COVER PLATE. BRYANT OR EQUAL. (TYP.)
2. DOWN TO SWITCHBANKS 'A' AND 'B'. SEE SWITCHBANK DETAILS THIS SHEET.
3. 2' x 2'-0" x 2'-0" PLYWOOD TELEPHONE BOARD.
4. E.C. SHALL PROVIDE ALTERNATE PRICING FOR COMBINATION 220/120 VOLT OUTLET BOX. (TYP.)

GENERAL NOTES

- A. ALL CONDUIT SHALL BE 1/2" MINIMUM UNLESS OTHERWISE NOTED.
- B. ALL WIRING SHALL BE #12 THIN MINIMUM UNLESS OTHERWISE NOTED. VOLTAGE DROP SHALL BE KEPT TO 3% FOR BRANCH CIRCUITS PER THE N.E.C., E.C. SHALL INCREASE WIRE SIZE AS REQUIRED.
- C. COORDINATE ELECTRICAL ROUGH-IN OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR ON WHO IS RESPONSIBLE FOR FURNISHING THE DISCONNECTS.
- D. COORDINATE SIZE OF MOTOR STARTERS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION. COORDINATE WITH MECHANICAL CONTRACTOR ON WHO IS RESPONSIBLE FOR FURNISHING THE MOTOR STARTERS.
- E. COORDINATE CONTROL WIRING WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- F. DUCT MOUNTED SUPPLY AIR SMOKE DETECTOR FURNISHED AND INSTALLED IN DUCT BY MECHANICAL CONTRACTOR AND POWERED BY ELECTRICAL CONTRACTOR. INTERLOCK DETECTOR TO SHUT UNIT DOWN UPON DETECTION OF SMOKE.



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SHEET TITLE
BUILDING 1

REVISION DATE

15 JUNE 2006

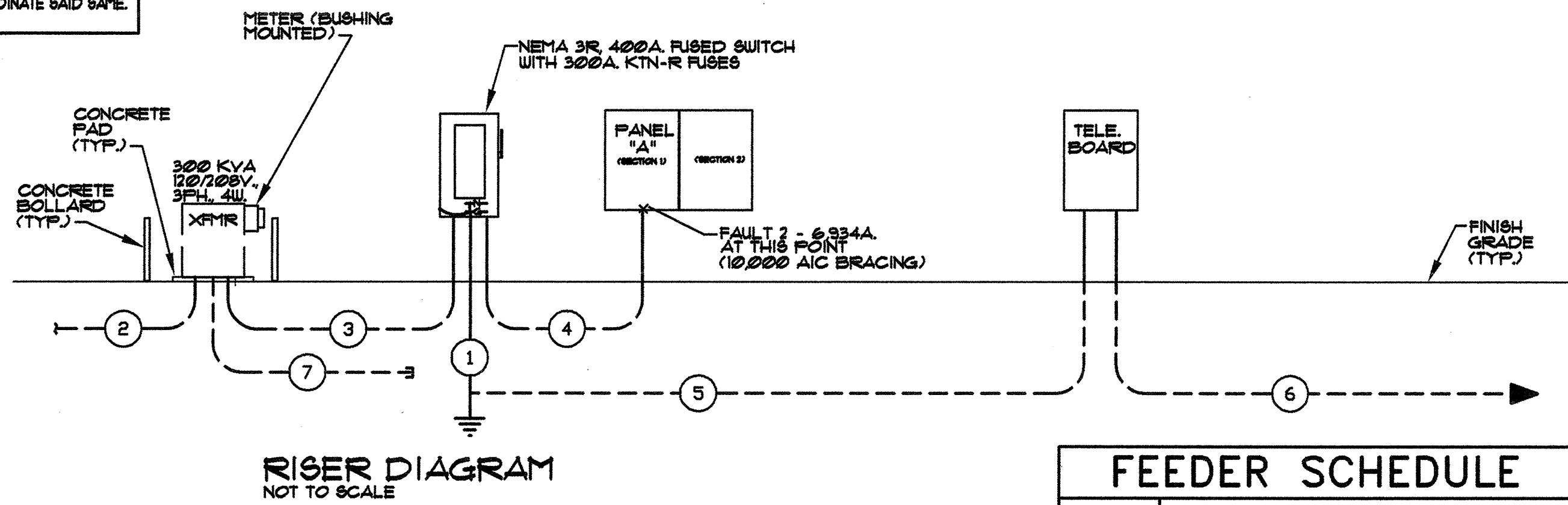
DATE

PROJECT NO.
2915.02

DRAWING SHEET

E101

NOTE:
ELECTRICAL CONTRACTOR SHALL INSTALL METER METER
ENCLOSURE AND CTS PER FPM DESIGN STANDARDS.
ELECTRICAL CONTRACTOR SHALL COORDINATE SAID SAME.



FEEDER SCHEDULE

SYMBOL	DESCRIPTION
1	1/2" CU TO NEAREST METALLIC COLD WATER PIPE AND CONCRETE ENCASED 3/4" x 10'-0" COPPER GROUND ROD.
2	2-4" CONDUITS TO FPM'S MAIN POINT OF SERVICE. CONTACT TOPAS GOLF WITH FPM AT (505) 241-3481 TO COORDINATE INSTALLATION. INSTALLATION SHALL BE PER FPM DESIGN STANDARDS. SEE ELEC. SITE PLAN FOR MORE INFORMATION.
3	4500Kcmil THIN CU IN 3/2" CONDUIT.
4	4500Kcmil THIN CU AND P96 IN 3/2" CONDUIT.
5	1/2" SDBC GROUNDING CONDUCTOR.
6	2-4" CONDUITS TO GUESTS MAIN POINT OF PRESENCE (MPOF). CONTACT ROBERTO KNEFL WITH GUEST AT (505) 248-4374 TO COORDINATE INSTALLATION. INSTALLATION SHALL BE PER GUESTS DESIGN STANDARDS. SEE ELEC. SITE PLAN FOR MORE INFORMATION.
7	SEE ELECTRICAL SITE PLAN FOR QUANTITY AND SIZES OF STUBBED OUT CONDUITS.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION - NOTE: NOT ALL SYMBOLS MAY BE USED.
	2'x4' RECESSED FLUORESCENT LUMINAIRE "A" DENOTES LUMINAIRE TYPE.
	WALL MOUNTED LUMINAIRE
	HID LUMINAIRE
	TWIN HEAD BATTERY BACK-UP EMERGENCY LUMINAIRE, TYPE "Q" SEE LUMINAIRE SCHEDULE.
	JUNCTION BOX
	EXIT SIGN WITH DIRECTIONAL ARROW
	DISCONNECT SWITCH
	MOTOR, "S" DENOTES A 5 HORSEPOWER MOTOR
	HOMERUN CONDUIT: GROUND CONDUCTOR SWITCH CONDUCTOR HOT OR PHASE CONDUCTOR NEUTRAL CONDUCTOR ARROW(S) DENOTES NO. OF CIRCUITS
	DUPLEX GROUNDING STYLE RECEPTACLE, MOUNT @ 18" AFF.
	DOUBLE DUPLEX GROUNDING STYLE RECEPTACLE, MOUNT @ 18" AFF.
	SPECIAL RECEPTACLE, SEE 'KITCHEN EQUIPMENT SCHEDULE' FOR MORE INFORMATION.
WP	DENOTES WEATHERPROOF
GFI or GFCI	GROUND FAULT CIRCUIT INTERRUPTER
U.O.N.	UNLESS OTHERWISE NOTED
SDBC	SOFT DRAWN BARE COPPER
	PANELBOARD SURFACE MOUNTED
	CONCEALED OR EXPOSED CONDUIT TURNED AWAY FROM OBSERVER
	CONCEALED OR EXPOSED CONDUIT TURNED TOWARD OBSERVER
	CONDUIT UNDERGROUND OR EMBEDDED IN CONCRETE
	MAIN TELEPHONE TERMINAL BOARD WITH GROUND
	METER
	CIRCUIT BREAKER
	LIGHT SWITCH
	3-WAY SWITCH
	MANUAL MOTOR STARTERS WITH THERMAL OVERLOADS
	MECHANICAL EQUIPMENT DESIGNATION
	KEYED NOTE DESIGNATION
	KITCHEN EQUIPMENT DESIGNATION
	TELEPHONE EQUIPMENT
	TELEPHONE OUTLET, MOUNT @ 18" AFF. "W" DENOTES "WALL" PHONE, MOUNT AT +48" AFF.
	2 JACK OUTLET, TELEPHONE AND DATA, MOUNT @ 18" AFF.
	TELEVISION OUTLET FOR CABLE TV, MOUNT @ 18" AFF. CONTACT LOCAL CABLE TV COMPANY FOR WIRING REQUIREMENTS.

MECHANICAL EQUIPMENT SCHEDULE														
KEY	ITEM	LISTED LOAD			EQUIVALENT LOAD	VOLTAGE			FEEDER			PROTECTION		
		HP	MCA	WATTS		CODE	VOLTS	PH	SIZE	"C	BREAKER	DISC. SW.	FUSE	REMARKS
EC	1 EVAPORATIVE COOLER (2 UNITS)	5			6304.7	5	208	3	3 # 10	0.5	35 A 3 P			30 A 3 P 25 COORDINATE FINAL SIZE WITH MECHANICAL.
AC	1 AIR CONDITIONING UNIT (1 UNIT)		47.6		9900.8	2	208	1	2 # 4	1	90 A 2 P			60 A 2 P 70 COORDINATE FINAL SIZE WITH MECHANICAL.
EF	1 EXHAUST FAN (2 UNITS)			147	147.0	1	120	1	2 # 12	0.5	15 A 1 P			30 A 1 P 15 COORDINATE FINAL SIZE WITH MECHANICAL.
CP	1 COMPRESSOR (2 UNITS)	5			6440.0	2	208	1	2 # 8	0.5	60 A 2 P			60 A 2 P 40 COORDINATE FINAL SIZE WITH MECHANICAL.
-	NOT USED				0.0	5	208	3	3 # 8	0.5	60 A 3 P			60 A 3 P 40 COORDINATE FINAL SIZE WITH MECHANICAL.
UH	1 UNIT HEATER (4 UNITS)	0.1		15,000	15000.0	5	208	3	3 # 6	1	80 A 3 P			60 A 3 P 60 COORDINATE FINAL SIZE WITH MECHANICAL.
WH	1 INSTANTANEOUS WATER HEATER			3,500	3500.0	1	120	1	2 # 8	0.5	60 A 1 P			60 A 1 P 40 COORDINATE FINAL SIZE WITH MECHANICAL.



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ALBUQUERQUE, NM 87110-7027
505.265.1235 FAX 505.265.1040

ARCHITECTURE
ENGINEERING
PLANNING
INTERIOR DESIGN

GREER
STAFFORD
S/JCF

PPC SHOOTING RANGE
BUILDING "B"

CITY OF ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO

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CAD FILENAME
N:/SERVER 2/

SHEET TITLE
RISER DIAGRAM
and LEGEND

REVISION DATE

15 JUNE 2006

DATE

PROJECT NO.
2915.02

DRAWING SHEET

E201

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	LAMPS	TOTAL WATTS	MANUFACTURER	CATALOG NO.	VOLTAGE	FINISH	MOUNTING	RECESS DEPTH
A	2' X 4' SHALLOW LENSED SURFACE MOUNTED FLUORESCENT WITH ELECTRONIC BALLAST(S) AND 0.125" PATTERN 12 LENS.	4-F32T8/SP35	97	LSI	2S PAX125 432 SD SSO	120	BAKED WHITE ENAMEL	PENDANT OR UNISTRUT SUPPORT	
B	WIDE TWO LAMP STRIP, T8 FLUORESCENT LAMPS WITH ELECTRONIC BALLAST.	2-F32T8/SP35	53	LSI	WS 2 32 SSO CH-12 CHAIN HUNG	120	WHITE	SUSPENDED OR SURFACE	
C	FULL CUTOFF WALL PACK, METAL HALIDE.	1-400W MH	460	LSI	SIFCL WB 400 F MT	120	BAKED WHITE ENAMEL	SURFACE SEE ARCH. FOR HEIGHT	
Q	TWIN HEAD SELF CONTAINED EMERGENCY FLOOD WITH MAINTENANCE FREE LEAD ACID BATTERIES.	FURNISHED WITH UNIT	14	EXITRONIX	LL-30	120 OR 277	WHITE	WALL +7'6"	---
X	9" X 12" X 2" EXIT SIGN RED LETTERS ON WHITE BACKGROUND POLYCARBONATE HOUSING, SINGLE/DOUBLE FACE UNIVERSAL MOUNT AND ARROWS.	L.E.D. FURNISHED WITH UNIT	3	EXITRONIX	G400U WB BA G1	120	BRUSHED ALUMINUM	UNIVERSAL MOUNT	---
NOTE: TEN DAYS PRIOR APPROVAL REQUIRED ON ALL FIXTURE TYPES.									

600A. M.L.O.										PANEL " A "										(2 SECTION PANEL)										VOLTAGE 120 / 208 V										TYPE : SQ. D - NGOOD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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SECTION 16400

ELECTRICAL

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide all electrical work for a complete and operable system as shown on the drawings and as specified in this section including, but not limited to the following:
1. Site investigations prior to bidding to establish existing conditions.
 2. Temporary power and lighting facilities for construction.
 3. Electrical aerial service at 120/208 volt, three phase, four wire.
 4. Service metering and distribution system for 120/208 volt power and lighting, and convenience outlets.
 5. Branch circuit wiring system including wiring devices, wiring, conduit, disconnect switches, pull boxes and equipment connections.
 6. Lighting system including light fixtures, lamps, ballasts, required mounting hardware, photocell controls and the switches.
 7. Telephone system facilities including conduit between backboards, pull wires, telephone backboard, and grounding.
 8. Connection of mechanical equipment, check mechanical plans for additional work required. Air conditioning equipment shall be fused per manufacturer's recommendations; use "RGS-1D" fuses at units.
 9. Fire Alarm System. If required by local code equipment shall be Simplex. See also HVAC section.
 10. Adjustment and test of the electrical work.
 11. Guarantee.

1.2 QUALITY ASSURANCE

- A. All products and equipment herein specified or indicated on the drawings shall be new with UL label and in compliance with the National Electrical Code, state and local codes. Materials for similar use shall be of the same type and manufacture.
- B. All work and materials shall be installed per the governing authorities. Nothing in the plans or specifications shall be deemed as permission to violate these codes or authorities and the Contractor shall be held responsible for any work which is not accepted. Violations shown on the plans are to be brought to the attention of the Electrical Engineer before work is done.

1.3 SITE VISITATIONS

- A. Prior to the submission of the bid, the Contractor shall visit the site and make a thorough examination of the existing conditions and thereby include allowances for this work in this bid.

1.4 PERMITS AND LICENSES

- A. Contractor shall pay for and obtain all necessary permits, inspections, insurance and licenses required for the Electrical work. Deliver certificates for all permits and inspections to the Architect.

1.5 COORDINATION

- A. Contractor to coordinate the Electrical work with other trades. Review drawings and specifications of all equipment requiring electrical connections prior to installation of the electrical system. Verify space, ventilation and clearances required to install electrical equipment. Exact locations of lights and wiring devices are shown on architectural drawings.

1.6 SUBMITTALS

- A. Within thirty (30) days after award of contract submit to the Architect six (6) sets of shop drawings consisting of switchboards with interrupting capacity of all devices. Product data sheets for light fixtures, panelboards, receptacles, switches, plates, disconnect switches, the switches, wiring devices, material list, and fire alarm. Fire Alarm submittal shall include testary calculations, wiring type and sizes per ULFC Standard 14.103. Submittals not to include substitutions or deviations from the materials or methods specified unless prior approval has been given in writing. Make all submittals at one time in booklet form.

1.7 SUBSTITUTIONS

- A. Where manufacturer's name and catalog number are called out, the phrase "or approved equal" can be assumed except the burden of proving equality is on the bidder.

1.8 DRAWINGS

- A. During progress of work maintain a record of changes made from plans and "as built" locations of buried conduits and ducts. On completion, present a professionally done reproducible drawing to the Architect.

1.9 VERIFICATION OF DIMENSIONS

- A. All scaled and figured dimensions are approximate and are given for estimating purposes only. Where apparatus and equipment, particularly switchboards and transformers, have been taken from typical equipment of the class indicated and before proceeding with the work, the Contractor shall carefully check and verify all dimensions and sizes and shall assume all responsibility for the fitting of his materials and equipment to other parts of the equipment and to the structure.

1.10 LOCATION

- A. Prior to rough-in, minor adjustments to outlet locations may be made without additional compensation.

1.11 PROTECTION OF FINISH

- A. Fully protect all finished parts during the progress of the work and until final completion.

1.12 GUARANTEE

- A. All electrical work and equipment (except lamps) shall be guaranteed for one year from the date of acceptance on Contractor's letterhead and turned over to the Owner at the completion and final acceptance of the job.

PART 2 - PRODUCTS

2.1 MAIN SWITCHBOARD

- A. Not used.

2.2 SWITCHES

- A. Switches shall be quick-make, quick break type QMB rated 600 volts with frame size, number of poles and fuses as shown.

2.3 CIRCUIT BREAKERS

- A. Circuit breakers shall be bolt-on molded-case type with thermal magnetic trips. Provide with rated voltage, frame size, number of poles and trip setting as shown. NEMA interrupting capacity shall be 10,000 AIC at 120/208 volts or 14,000 AIC at 277/480 volts, unless otherwise noted.

2.4 PANELBOARDS

- A. Panelboards shall be surface mounted, with bolt-on circuit breakers type NQDB for 120/208 volt with hinged lockable doors, all locks keyed alike and typewritten directories. All multipole breakers shall be single handle common trip. Provide 1/2" minimum side gutter and 6" minimum top and bottom gutters. If double lugs are shown, top or bottom gutter to be 12". Panelboard front shall be sheet steel, painted manufacturer's standard color if surface mounted and prime coated if flush mounted. Branch circuits shall be clearly marked on the dead front shield. Provide a 1" X 2-1/2" phenolic nameplate screwed to the dead front shield. All terminals shall be solderless type connectors. Solid neutral bus shall have connectors numbered to agree with branch circuits. All circuit breakers to have lock-off device. Use "HRCR" circuit breakers for air conditioning loads. Use "QWV" circuit breakers for lighting circuits controlled from panels. Manufacturer shall be Challenger, GE, Siemens, Square D, or Westinghouse.

2.5 CONDUIT

- A. Conduit shall be rigid steel galvanized IMC for underground, exposed up to +5'-0" or in damp locations. No running threads will be permitted. Galvanized EMT shall be used in dry concealed locations and exposed above +5'-0". EMT connectors shall be watertight compression type. Galvanized flexible conduit shall be used only for motor and fixture connections in lengths not to exceed 6'. Conduits penetrating the roof shall be flashed and counter flashed. PVC schedule 40 may be used under floor slabs or underground with ground wire. PVC underground to have 24 inch cover. Service conduits shall be PVC schedule 40 or as specified by utility companies. Install fittings, special devices and material which may be required for the proper installation of the conduit system. Conduits penetrating 1-hour walls shall be sealed with intumescent material, 3M or equal, as required by code.

2.6 OUTLET BOXES

- A. Outlet boxes shall be galvanized pressed steel of 4" square X 2-1/8" deep minimum with required device rings, bar hangers Rayco 900 series or secured to 2" X 4" blocking with two 1-1/2" #9 wood screws. Wall outlets with one conduit entry may be 2-1/8" square X 4" high. Boxes for multiple devices shall be ganged boxes. Outlet boxes shall be equipped with plaster rings, extension rings, or fixture studs as required. Boxes exposed to rain or other moisture shall be Crouse-Hinds type FS or FI conduit boxes with appropriate covers and gaskets.

2.7 PULL BOXES

- A. Sheet steel pull boxes shall be fabricated of code gauge steel finished with one coat of metal primer and one coat of manufacturer's standard baked enamel. Weatherproof boxes shall be NEMA 3R. Surface mounted boxes shall be provided with a removable screw cover lined up accurately with the edges of the box. Flush mounted boxes shall be provided with a removable screw cover extending 3/4" beyond the edges of the box and installed plumb.
- B. Cast metal pull boxes shall be fabricated of cast iron, hot-dipped galvanized, and provided with gasketed plain cast iron cover secured to the box with brass screws. Boxes shall be provided to insure five full conduit threads. Surface mounted boxes shall have flat flanged cover mounting. Flush mounted boxes shall have inside flange recessed cover mounting for 3" concrete encasement if installed in the earth.

2.8 CONDUCTOR

- A. Conductors shall be 600 volt insulation type THHN/THWN copper. Conductors AWG #10 and smaller shall be solid, AWG #8 and larger shall be stranded.

2.9 SPLICES

- A. Splices on conductors #8 or smaller shall be Scotchloc spring connectors and for larger size cable use solderless connectors.

2.10 RECEPTACLES

- A. Receptacles, 120 volt duplex grounding type, shall be specification grade 20 amp Leviton #5362-V and isolated ground receptacles Leviton #5362-IGW. Where indicated VP install weatherproof gasketed cover, mounted on FS box. Provide ground fault circuit interrupters where required by code. Dedicated receptacles shall be 20 amp, Leviton #5362A-GI.

2.11 LIGHT SWITCHES

- A. Switches shall be toggle type specification grade 120/277 volts AC Leviton #1221-2V and #1223-2V for 3-way.

2.12 PLATES

- A. Shall be stainless steel.

2.13 TIME SWITCHES

- A. The switches shall be in NEMA 1 enclosure with 24 hour dial, mechanical carry-over, timing device and adjustable (as specified under Section 15000) by Torq, Paragon or Sangano.

2.14 PHOTO-ELECTRIC CONTROLLERS

- A. As manufactured by Square D, Torq, Paragon or Sangano.

2.15 CONTACTORS

- A. As manufactured by Automatic Switch Company or Square D.

2.16 CHANNELS

- A. Structural channels shall be by Kndorf, Kln-Line or Unistrut complete with all fittings, accessories, swivels, rods, etc. and installed to structural members as directed by the Structural Engineer.

2.17 DISCONNECT SWITCHES

- A. Disconnect switches shall be horsepower rated, fused except where otherwise indicated 3 pole, 600 volt, quick make, quick break with lockable handle open or closed, in general purpose or weatherproof enclosures as required.

2.18 LIGHTING FIXTURES

- A. Furnish and install complete with lamps, ballasts and required mounting hardware. Prior to ordering fixtures, verify mounting methods and finishes. All fluorescent fixtures mounted in "T" bar ceilings to be independently suspended diagonally with 2 #10 steel wires. Installations in fire-rated areas shall be done according to code requirements. Recessed portions of fixture enclosures, other than at points of support, shall be spaced at least 1/2" inch from combustible material. Thermal insulation shall not be installed within 3 inches from the recessed fixture enclosure, wiring compartment, or ballast and shall not be so installed above the fixture as to entrap heat and prevent the free circulation of air unless the fixture is otherwise identified for installation within thermal insulation.

2.19 LAMPS

- A. Lamps shall be as shown on the fixture schedule. Provide lamps suitable for the use intended. Fluorescent lamps shall be 34 watt energy saver GE F32SP30/RS or approved equal by Sylvania or Philips. Metal halide lamps shall be coated.

2.20 BALLASTS

- A. Fluorescent ballasts shall be premium type CEM certified, CEC and ETL approved, high power factor and of voltage required. Ballasts shall be "Triad" by Magnetek "DCTIC" series for T8 lamps.
- B. HID ballast shall be UL listed for the source, wattage and position of the lamp provided.

2.21 LENSES AND DIFFUSERS

- A. 100% virgin acrylic with 0.125 inch minimum thickness. Outdoor lenses shall be vandal/weather resistant.

2.22 FLOOR BOXES

- A. Floor boxes shall be fully adjustable flush-floor type, Hubbell B-2503. Provide S-3925 fitting and carpet flange for power, and S-2525 fitting and carpet flange for telephone.

2.23 TRANSFORMERS

- A. Transformers shall be dry type, indoor or outdoor, self-cooled type with 150 degrees C. temperature rise under full load conditions. Transformers shall be four 2-1/2X full capacity taps. Transformers shall be of voltages, phase, and KVA ratings as shown on the drawings. Mount on vibration dampeners.

2.24 GROUND FAULT CIRCUIT INTERRUPTER (GFCI)

- A. Provide GFCI circuit breakers or outlets according to the National Electrical Code Section 210 (2) and (3), 210-8, and such ground fault circuit interrupter protection may be provided on other circuits, locations and occupancies, and where used, will provide additional protection against line-to-ground shock hazards.

2.25 FIRE DETECTION AND ALARM SYSTEM

- A. Quality Assurance: Provide, as required, a complete and operable Fire Alarm System which is listed by UL and State Fire Marshal and complies with the Uniform Fire Code (UFC). Provide battery calculations, automatic dialer, wiring type and sizes.
- B. REFER TO DRAWINGS FOR EQUIPMENT REQUIRED.

PART 3 - EXECUTION

3.1 GENERAL

- A. The Electrical Drawings, which constitute an integral part of this contract, serve as the working drawings and indicate the general layout of the electrical systems. Field verifications of locations on plans is directed by field conditions. Check the Architectural, Structural and Mechanical Plans to avert possible installation conflicts and include all resulting cost in the bid.
- B. Discrepancies between different plans, between plans and actual field conditions, or between plans and specifications shall be promptly brought to the attention of the Electrical Engineer for clarification or decision. Appearances and wiring not specifically indicated or referred to, but which are common to complete an operable electrical systems, shall be included in the bid.

- C. Each empty conduit shall include a pull cord. All pull cords shall have a minimum diameter of 1/4" and a minimum average tensile strength of 1100 pounds. It shall be yellow in color. A contrasting tracer color may be included to identify the manufacturer. Flat braid is not acceptable.

3.2 INSTALLATION

- A. Installation of materials and equipment shall be in strict accordance with manufacturer's recommendations, instructions, industry standards, indicated on the drawings and as specified herein.

- B. Provide all mounting facilities for securing or hanging fixtures, equipment and outlets to the satisfaction of the Engineer. Details shown on the plans are for the purpose of establishing the extent and general methods required. Provide all sleeves, inserts, extenders and general methods required. Provide all sleeves, inserts, expansion joints, vibration, fitting, etc.

- C. Provide storage facilities and protect all work, materials and equipment from damage during process of work. Materials and equipment shall not be stored exposed to weather. Replace all damaged or defective work, materials and equipment without additional cost to the Owner.

- D. Provide trenching, concrete encasement of duct and conduit, back-filling and compaction for the underground electrical system, all in accordance with applicable section of this specification.

3.3 CONDUIT AND WIRING

- A. All conduit and wiring shall be installed concealed in walls, above ceilings and below floor slabs or exposed in accordance with applicable regulations and the Electrical Drawings. All penetrations of fire-rated walls or ceilings shall be coordinated with Owner. Conduit runs are shown diagrammatically. Exact routing and location of the equipment shall be determined in the field.

3.4 EXTERIOR EQUIPMENT

- A. All equipment and wiring outside shall be weatherproof and tamperproof.

3.5 MOISTURE PROTECTION

- A. Where required by regulations, all panelboards, main switchboards and electrical devices in the spray radius of sprinklers shall be installed with weatherproof enclosures in compliance with these regulations.

3.6 GROUNDING

- A. All metallic conduits, supports and enclosures shall be grounded in compliance with the National Electrical Code. Grounding bushings shall be used wherever conduits are required to be grounded.

3.7 ELECTRICAL SERVICE FACILITIES

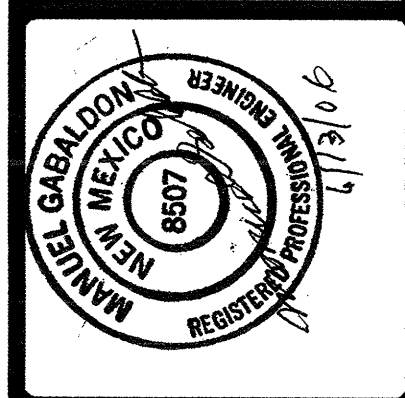
- A. Electrical service and metering facilities shall be installed in compliance with all requirements of the local utility company. Verify the point of connection, location of service poles, conduit stubs or manholes and include all construction cost in the bid. Apply for services in the same name of the Owner and pay all services and cable charges.

3.8 TELEPHONE SERVICE FACILITIES

- A. Provide conduits between backboards, grounding and receptacles as required by the serving utility company. Verify the point of connection, location of service poles, conduit stubs or manholes and include all construction cost in the bid.

3.9 TESTING

- A. All new circuits shall be tested for short and open circuit to ground with a megohm resistance to ground shall be in compliance with the requirements of the National Electrical Code. Furnish all necessary labor, instruments and equipment required for making tests to demonstrate that the operation of the system is in accordance with the intent of the contract documents. Also perform a complete "in service" operation of the entire electrical system to the full satisfaction of the Owner.



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ARCHITECTURE
ENGINEERING
PLANNING
INTERIOR DESIGN

GREER
STAFFORD
SJCF

PPC SHOOTING RANGE
BUILDING "B"
CITY OF ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO

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SHEET TITLE
ELECTRICAL
SPECIFICATIONS

REVISION DATE

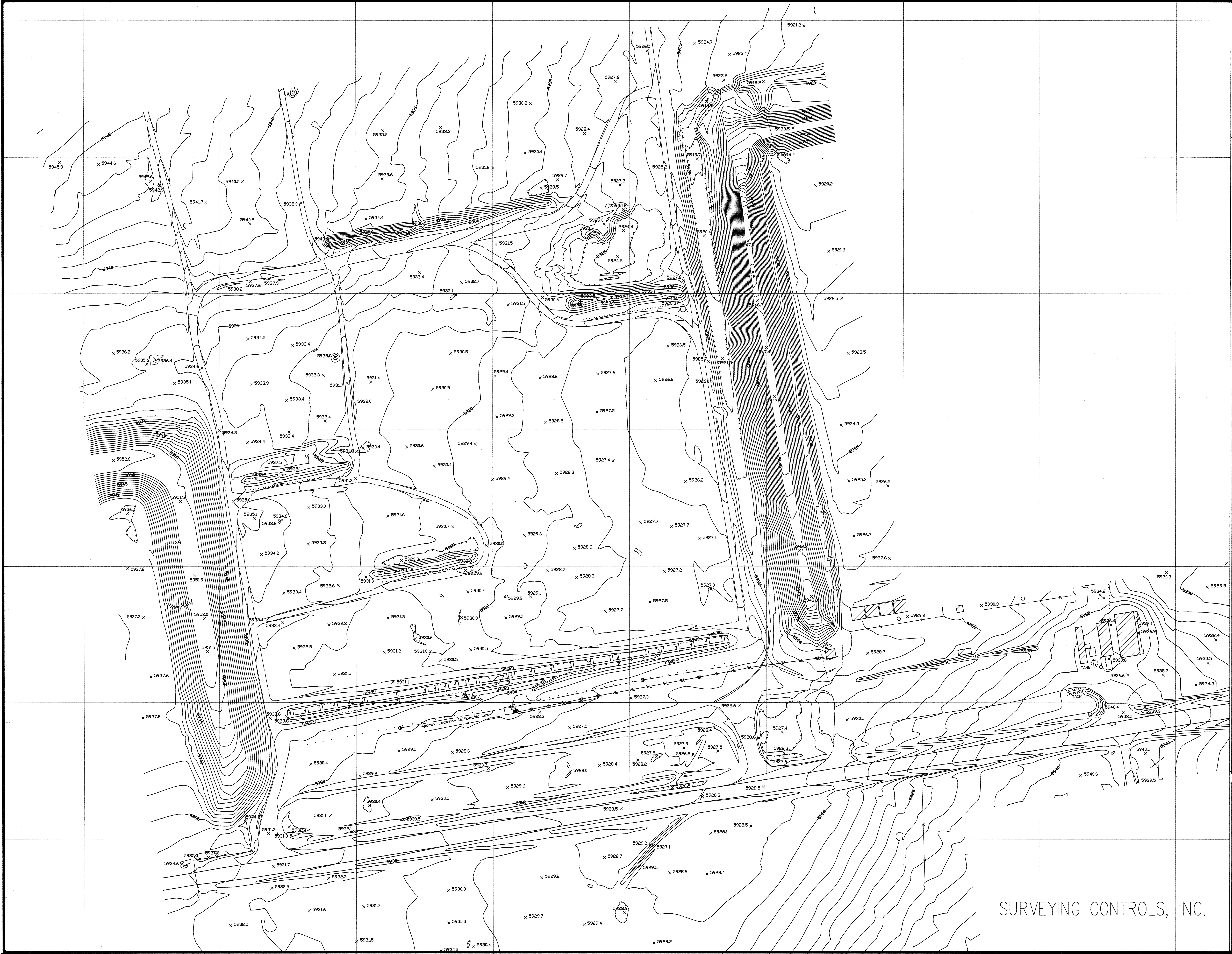
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DATE
15 JUNE 2006

PROJECT NO.
2915.02

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E401



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3005 NORTHBRIDGE DR., SUITE F
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505.821.0235 FAX 505.821.0345

PPC SHOOTING RANGE
BUILDING "B"
CITY OF ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO

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DWG. FILENAME	2515.02
SHEET TITLE	EX. CONDITION SURVEY
REVISION	DATE
1	
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4	
DATE	15 JUNE 2006
PROJECT NO.	2515.02
DRAWING SHEET	

SURVEYING CONTROLS, INC.

MASTER PLAN

POLICE PISTOL COMPETITION RANGE

CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

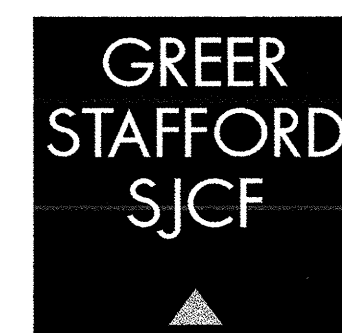
ADVISORY BOARD

NRA
Ron Kirtland - Director
Dwight Van Horn
Dennis L. Willing
Tommy Gaines

City of Albuquerque
John C. Griego
Demetrio Griego
Rick Vernon
Dr. David Bennett

AEC
Fowler Johnson
James Duran
Todd Perkins

ARCHITECT



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INTERIOR DESIGN

INDEX TO DRAWINGS

GENERAL:

G-001 COVER SHEET

ARCHITECTURAL:

A101 FINAL PLAN
A102 2006 PLAN
A103 2007 PLAN
A104 2008 PLAN
A105 2009 PLAN
A106 2010 PLAN
A112 2006 COMPETITION PLAN

PROJECT DESIGN DATA

PROJECT NAME: PPC RANGE
CITY OF ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO

APPLICABLE CODES: 2003 INTERNATIONAL BUILDING CODE
2003 UNIFORM PLUMBING CODE
2003 UNIFORM MECHANICAL CODE
2003 NATIONAL ELECTRICAL CODE
2003 INTERNATIONAL ENERGY CONSERVATION CODE
ICC / A.N.S.I. A-111 - 1998
2003 NEW MEXICO AMENDMENTS
CURRENT CITY OF ALBUQUERQUE AMENDMENTS

OCCUPANCY GROUP: A-3 (BUILDINGS 12,43)
TRADE SHOW

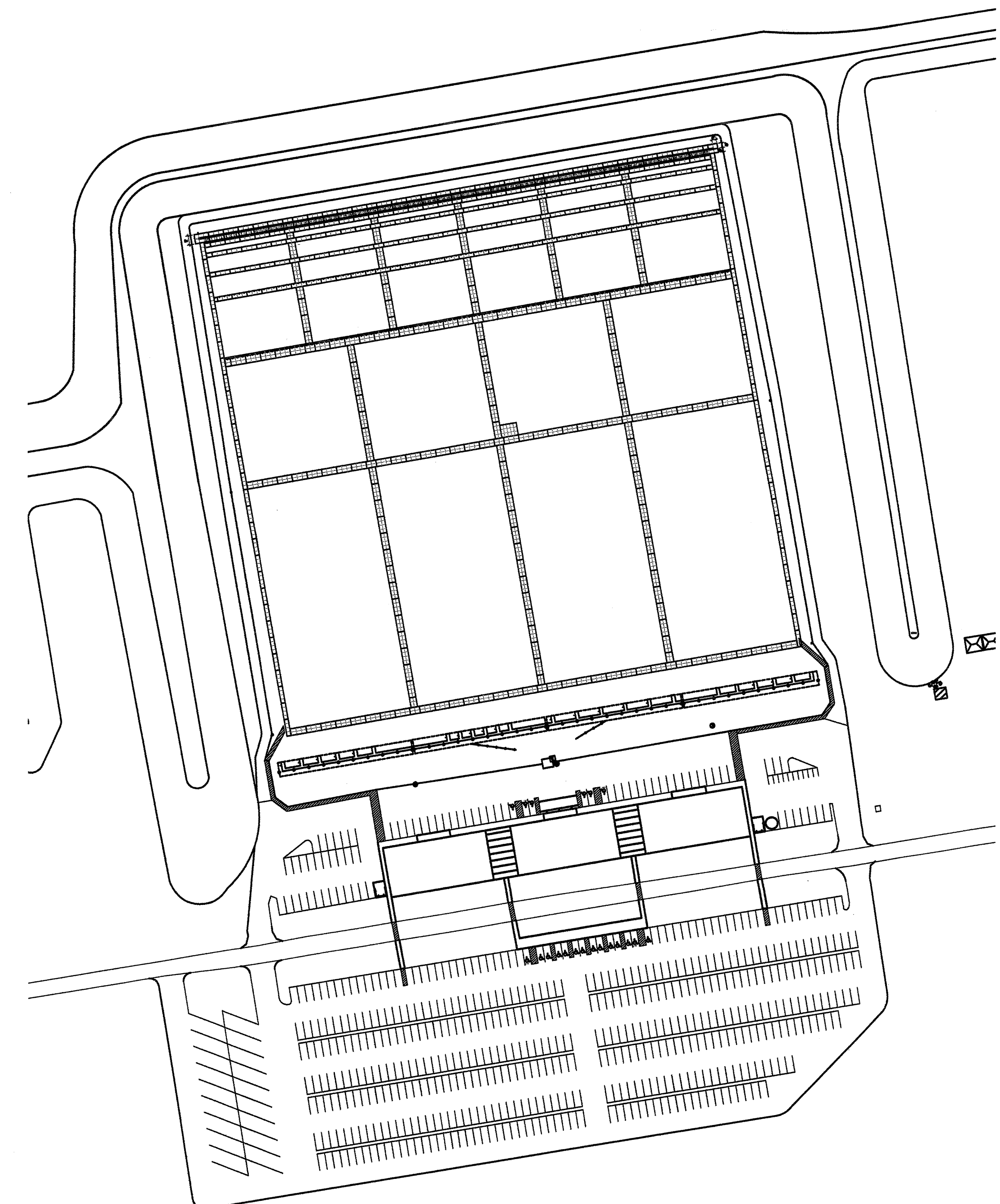
OCCUPANT LOAD (PER BUILDING): 1500 GSF
1500 SF/15 GSF NET (UNCONCENTRATED): 4500

CONSTRUCTION TYPE: IIB

FIRE PROTECTION SYSTEM: SPRINKLER

VIP/REFEREE PARKING:
4 HANDICAP ACCESSIBLE (8' X 20' WITH 5' AISLES)
2 VAN HANDICAP ACCESSIBLE (8' X 20' WITH 8' AISLES)
10 GOLF CART (6' X 10')
13 STANDARD (9' X 20')

GENERAL PARKING:
12 HANDICAP ACCESSIBLE (8' X 20' WITH 5' AISLES)
2 VAN ACCESSIBLE (8' X 20' WITH 8' AISLES)
10 RECREATIONAL VEHICLE (20' X 43')
451 STANDARD (9' X 20')



OVERALL PLAN
1" = 100'-0"

SET NO.

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PPC RANGE
SHOOTING RANGE IMPROVEMENTS
ALBUQUERQUE, NEW MEXICO

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/SERVER/2/2006/2006-01/G-001

SHEET TITLE
COVER SHEET

REVISION DATE

DATE
25 APRIL 2006

PROJECT NO.
2006-01

DRAWING SHEET

G-001

NEW BERM

NEW PPC RANGE

EXISTING RANGES

EXISTING RANGE

OFFICIAL/VIP PARKING

BLDG #3

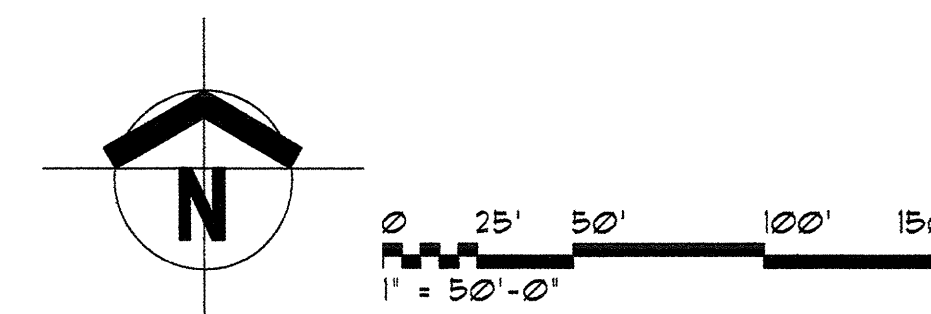
BLDG #1

BLDG #2

GENERAL PARKING

RV PARKING

MASTER PLAN



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NRA SHOOTING RANGE
MASTER PLAN

ALBUQUERQUE, NEW MEXICO

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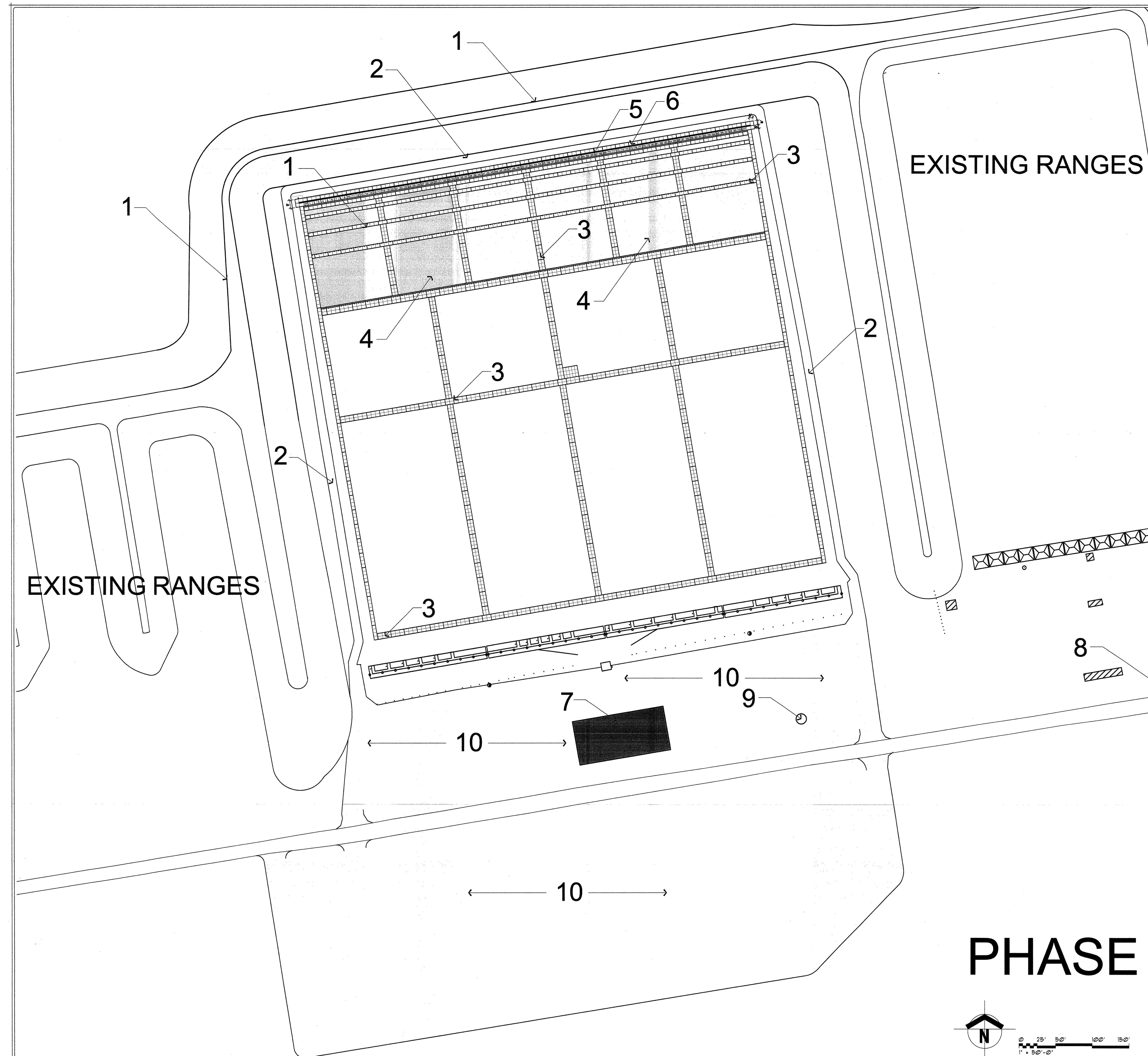
SHEET TITLE
SITE MASTER PLAN

REVISION	DATE
1	
2	
3	

DATE
20 APRIL 2006

PROJECT NO.
2015.02

DRAWING SHEET
A101



2006 Improvements

1. PPC Range:
Grading, Drainage and Berms
2. PPC Maintenance Roads
3. Sidewalks for PPC Range
4. Crusher Fines for PPC Range
5. Ballistic Barrier
6. Targeting System
7. Building 1 to include:
 - Electrical
 - Plumbing
 - Telephone
 - Septic System
 - Offices/Restrooms
 - Foundation and Slab
 - Insulated Metal Building
 - Fire Suppression System
8. Electrical upgrade for Site
9. Water upgrade for Site
10. Grading for Parking Areas, and Future Buildings

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1777 LOUISIANA, N.E. SUITE 205
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PHONE: 505.262.1000 FAX: 505.262.1000

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NRA SHOOTING RANGE
SITE PLAN 2006
ALBUQUERQUE, NEW MEXICO

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N:\2006\200602 Firing Range

SHEET TITLE
SITE PLAN 2006

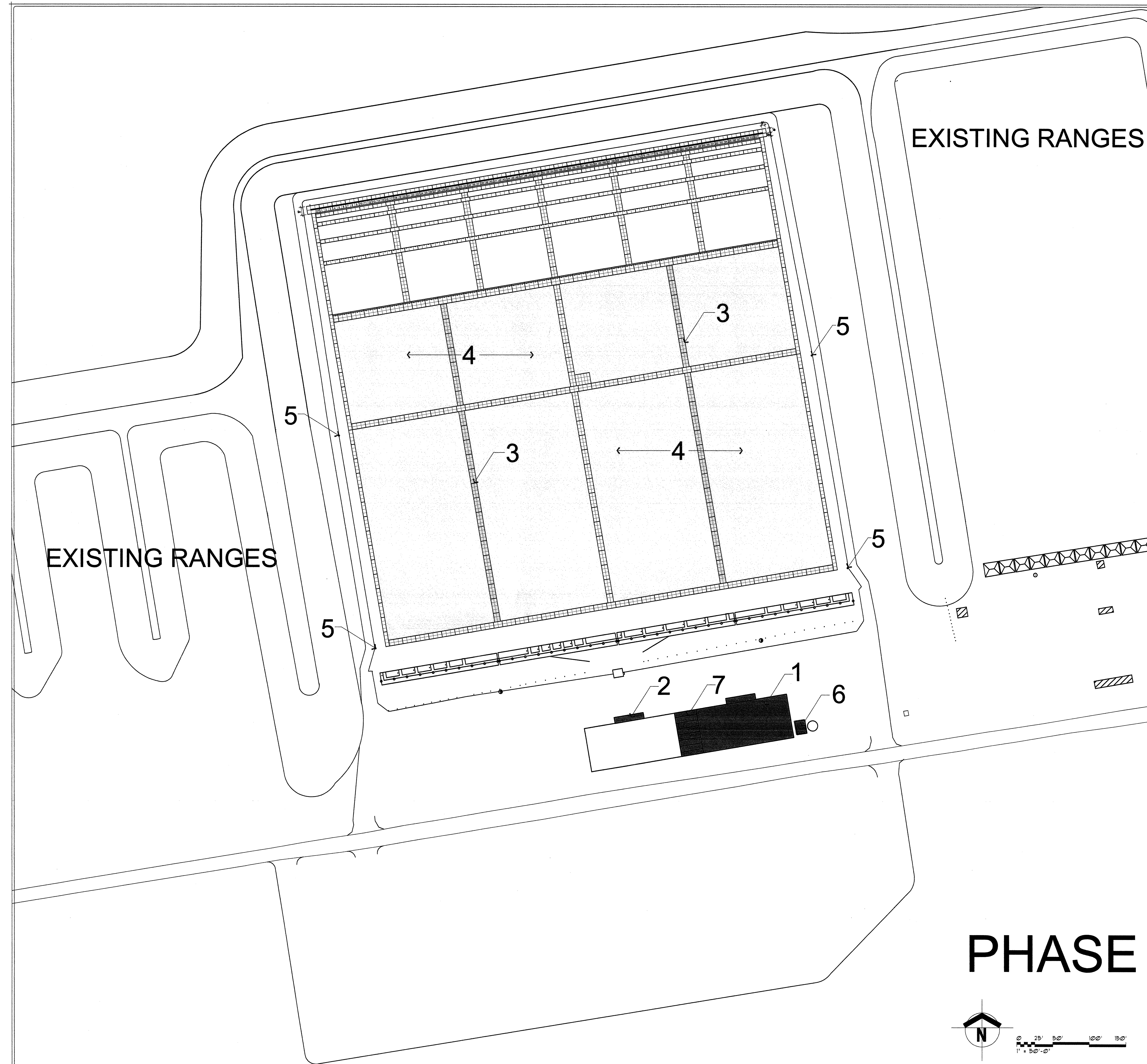
REVISION

DATE
20 APRIL 2006

PROJECT NO.
2006.02

DRAWING SHEET

A102



- 2007 Improvements**
1. Building 2 to include:
 - Electrical
 - Plumbing
 - Telephone
 - Septic System
 - Offices/Restrooms
 - Foundation and Slab
 - Insulated Metal Building
 - Fire Suppression System
 - Entrance Awning
 2. Entrance Awning for Bldg. 1
 3. Complete Range Sidewalks
 4. Complete Range Crusher Fines
 5. Range lights for night firing
 6. Dumpster Enclosure #1
 7. Covered Portico between Buildings 1 & 2

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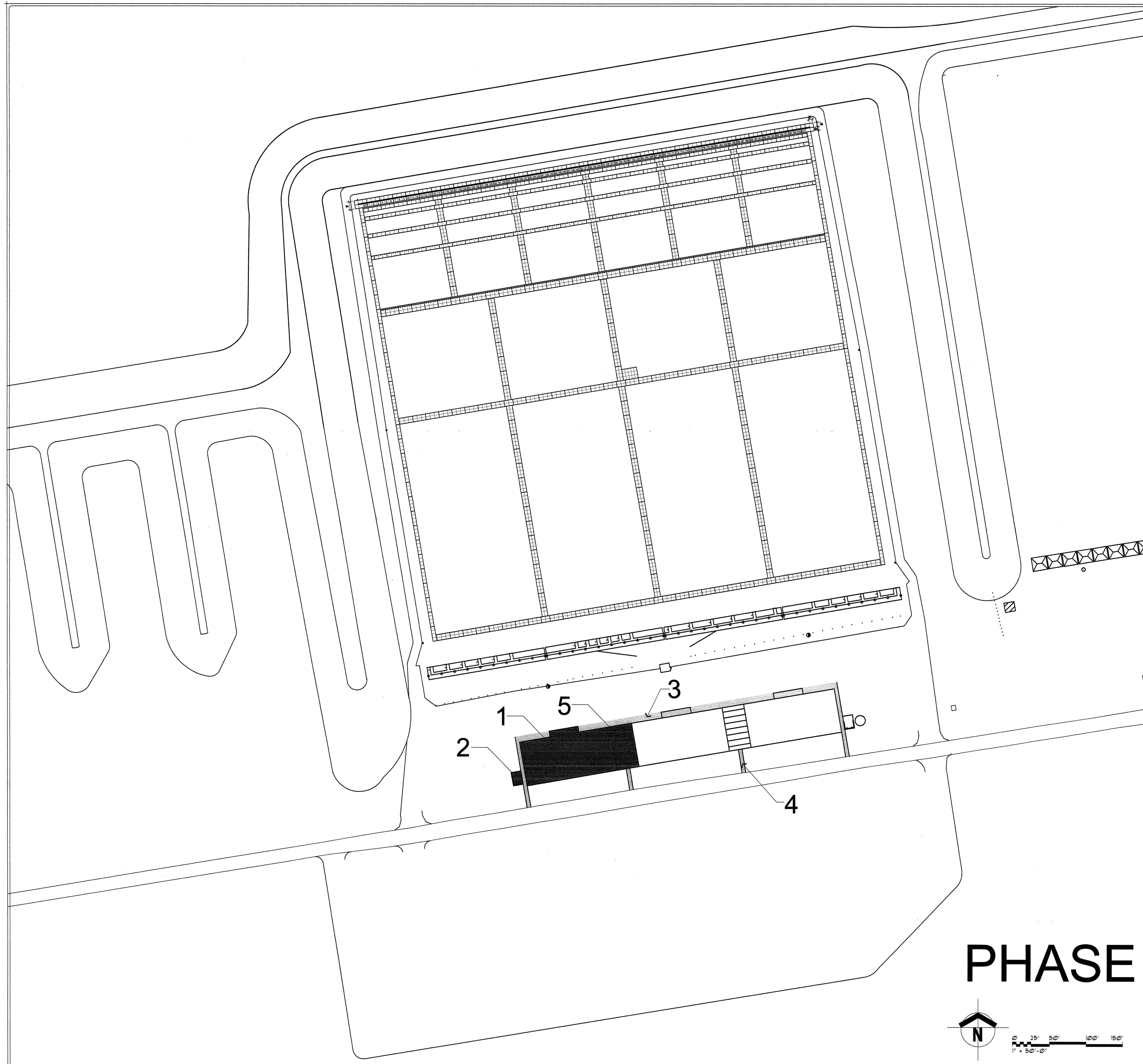
177 LOUISIANA, N.E., SUITE 205
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505.225.1038 FAX 505.225.1038

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**NRA SHOOTING RANGE
SITE PLAN 2007**

ALBUQUERQUE, NEW MEXICO

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GAD FILENAME N:\1295\1295.02 Firing Range	
SHEET TITLE SITE MASTER PLAN	
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DATE	20 APRIL 2006
PROJECT NO.	2915.02
DRAWING SHEET	A103



- 2008 Improvements
1. Building 3 to include:
 - Electrical
 - Plumbing
 - Telephone
 - Septic System
 - Offices/Restrooms
 - Foundation and Slab
 - Insulated Metal Building
 - Fire Suppression System
 - Entrance Awning
 2. Dumpster Enclosure #2
 3. Building Sidewalks
 4. Walkways to General Parking
 5. Covered Portico between Buildings 1 & 3

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ARCHITECTURE
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INTERIOR DESIGN

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NRA SHOOTING RANGE
SITE PLAN 2008
ALBUQUERQUE, NEW MEXICO

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CAD FILENAME
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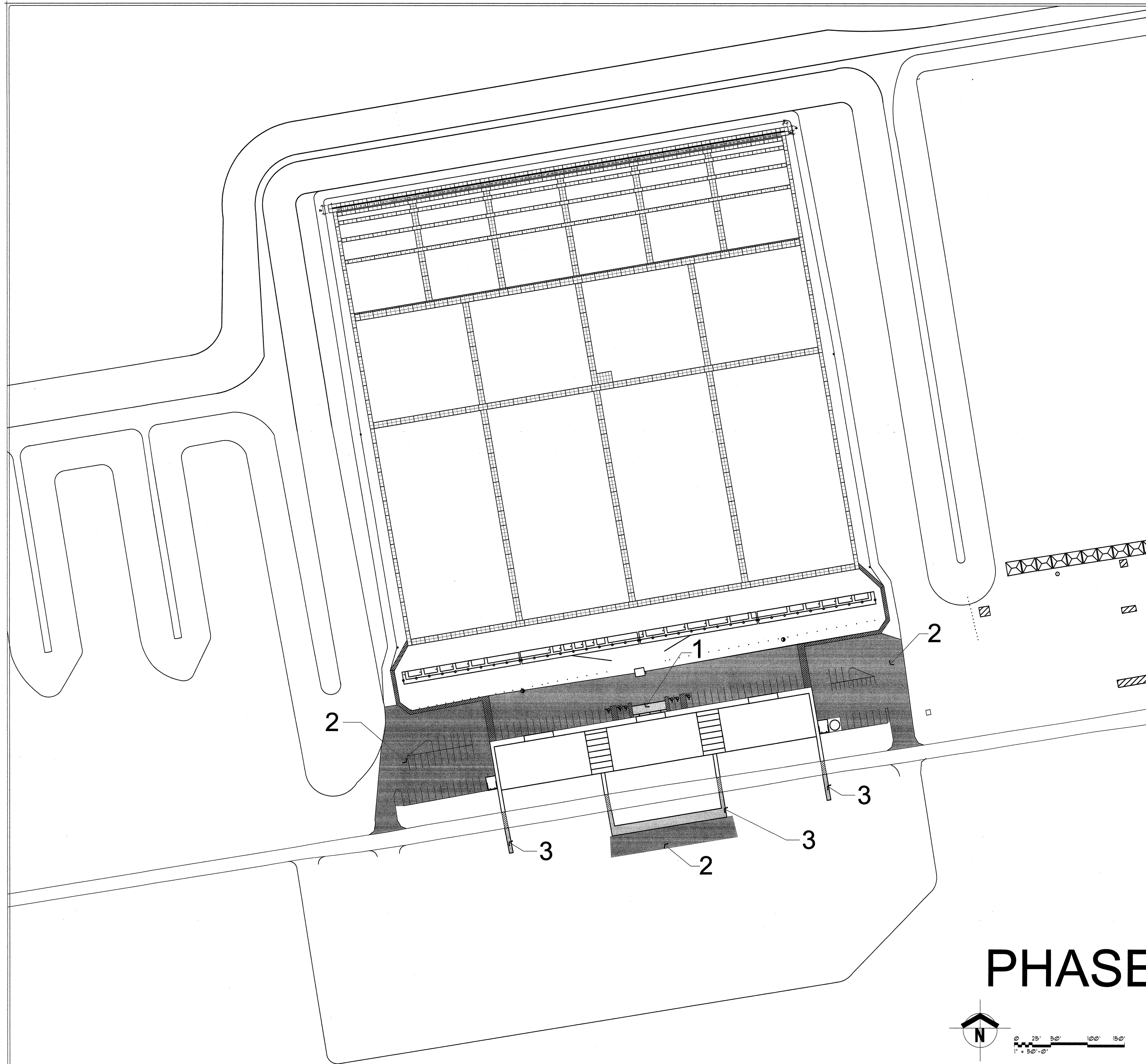
SHEET TITLE
SITE MASTER PLAN

REVISION	DATE
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DATE
20 APRIL 2006

PROJECT NO.
295.02

DRAWING SHEET
A104



- 2009 Improvements
1. Concrete Stage and Flagpoles.
 2. Pave North Parking (VIP and Officials)
 3. Handicap Parking Sidewalks and Connections.

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NRA SHOOTING RANGE
SITE PLAN 2009
ALBUQUERQUE, NEW MEXICO

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SITE MASTER PLAN

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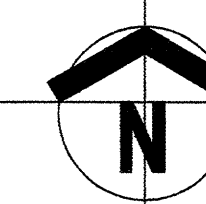
DATE
20 APRIL 2006

PROJECT NO.
7915.02

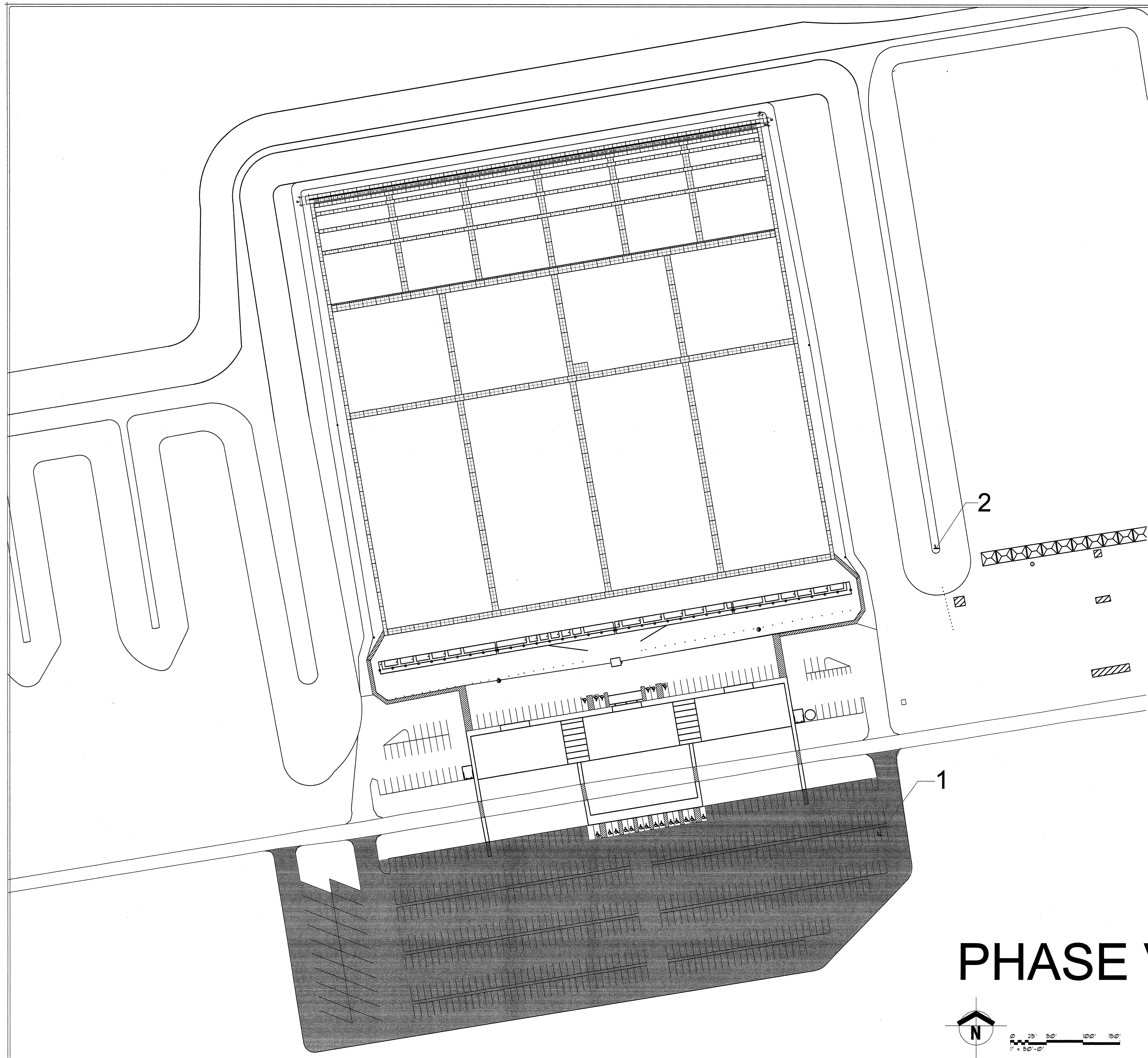
DRAWING SHEET

A105

PHASE IV



0 25' 50' 100' 150'
1" = 50'-0"



- 2010 Improvements
1. Pave General Parking
 2. Install Electronic Reader Board for Matches

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NRA SHOOTING RANGE
SITE PLAN 2010
ALBUQUERQUE, NEW MEXICO

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DRAWING SHEET
A106

PHASE V

