

# BUILDING 100 GENERATOR

## Solano College

4000 Suisun Valley Rd, Fairfield, CA 94534

SOLANO COMMUNITY COLLEGE DISTRICT

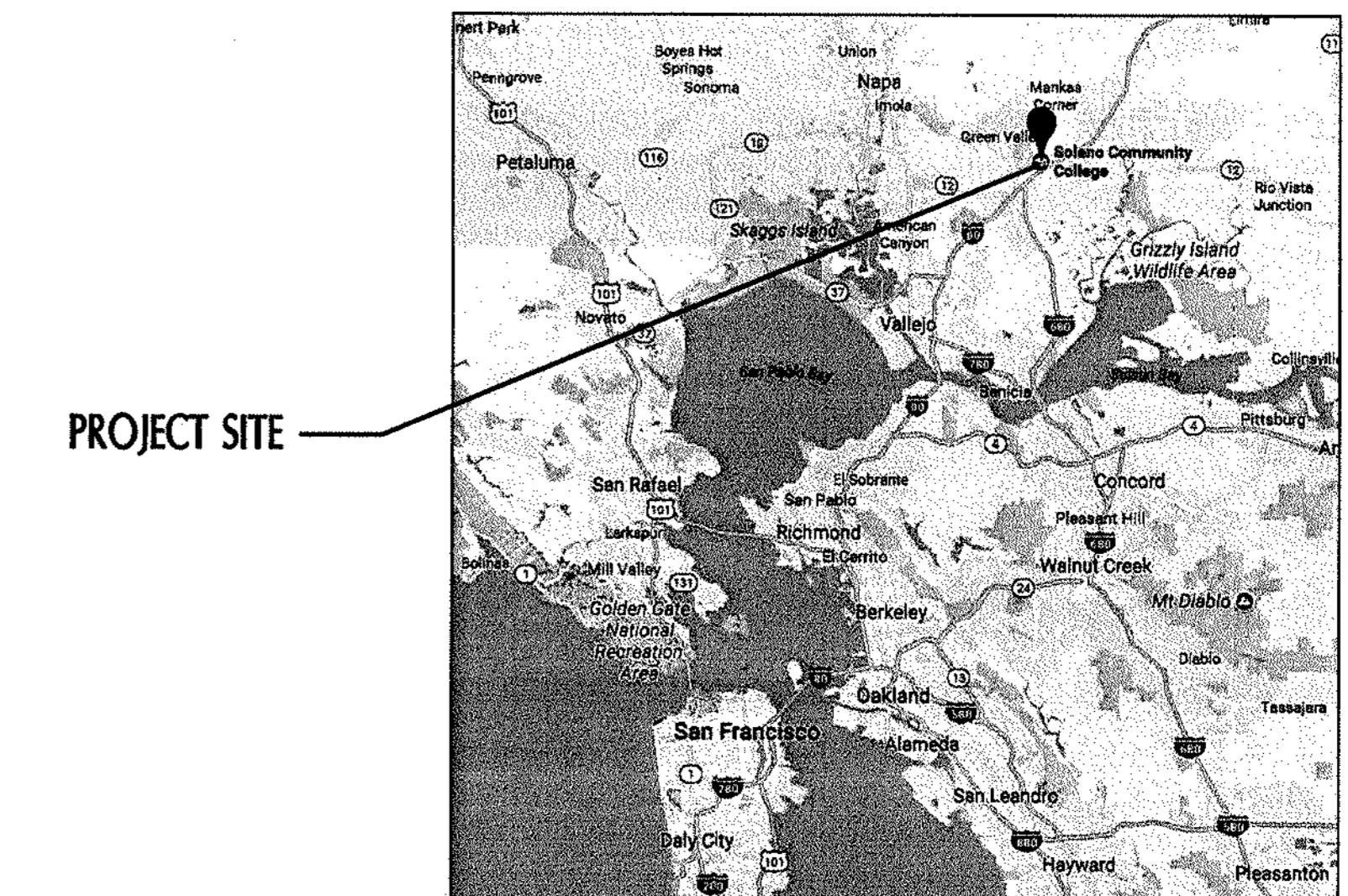
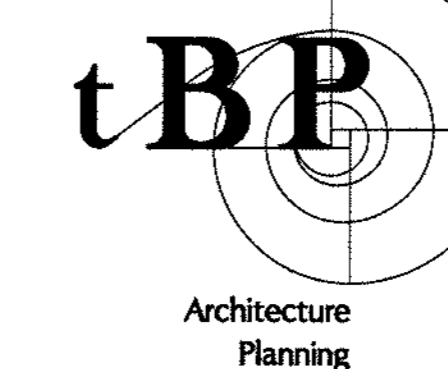
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### CONSTRUCTION DOCUMENTS

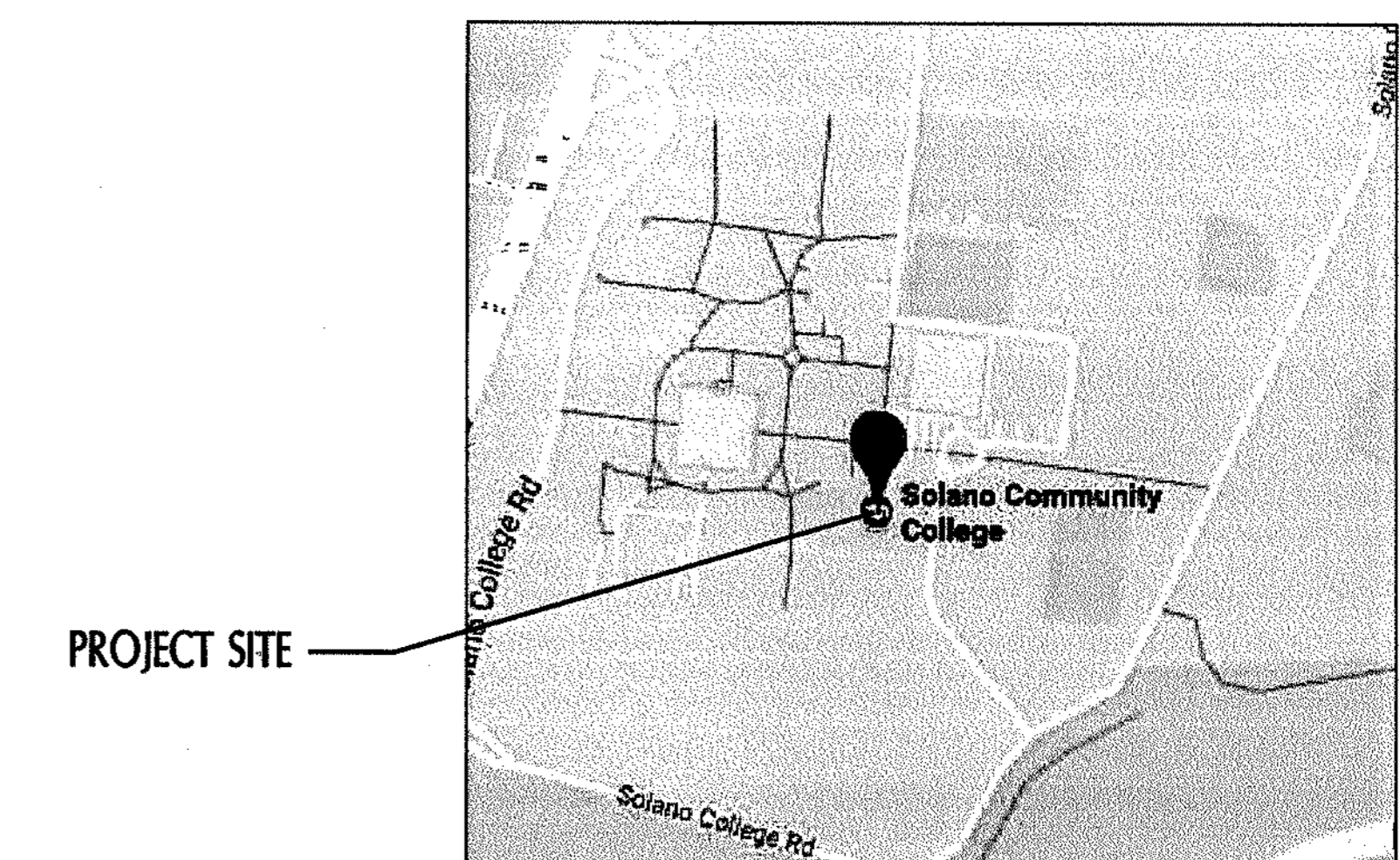
### 100% OCTOBER 17, 2017

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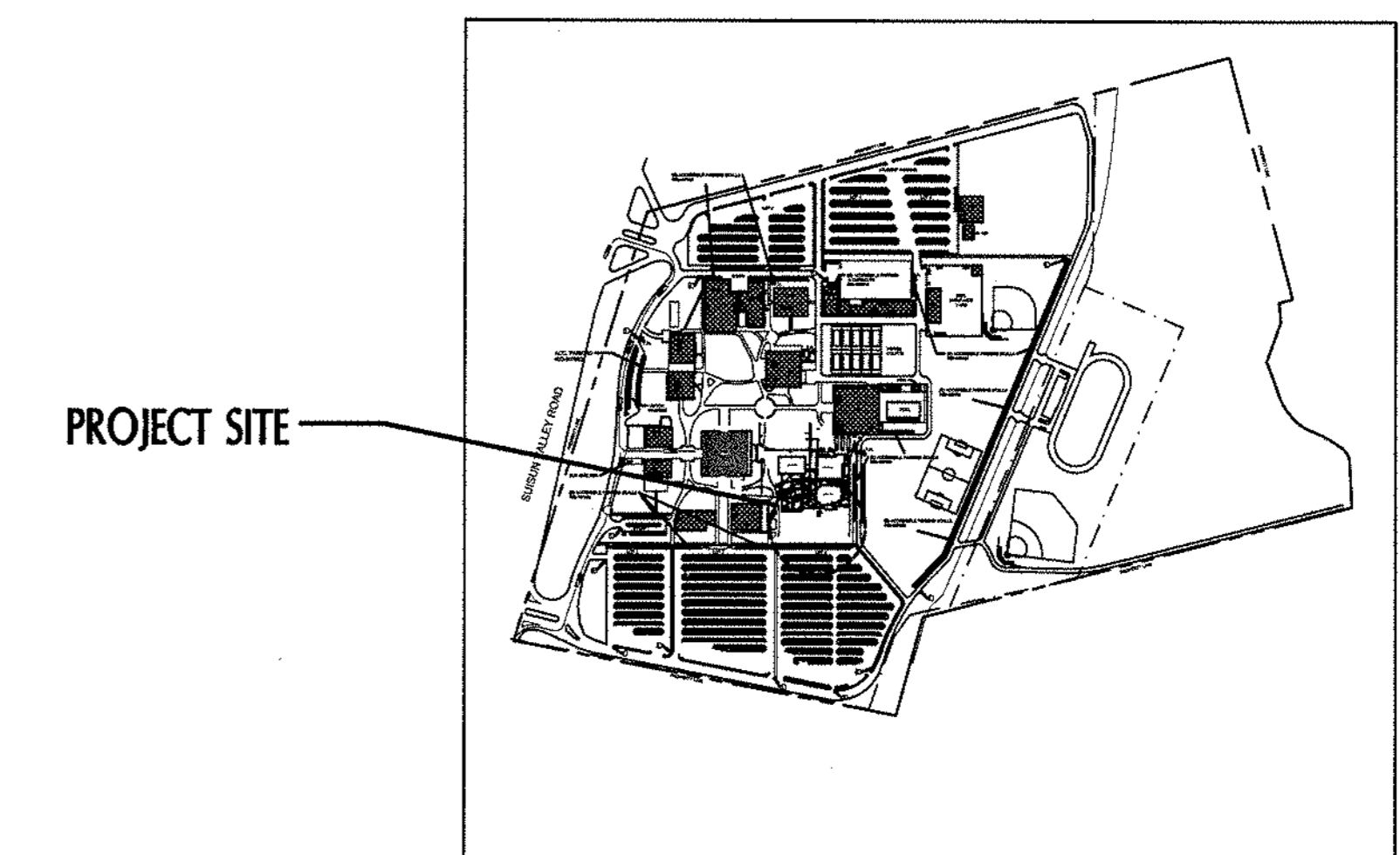
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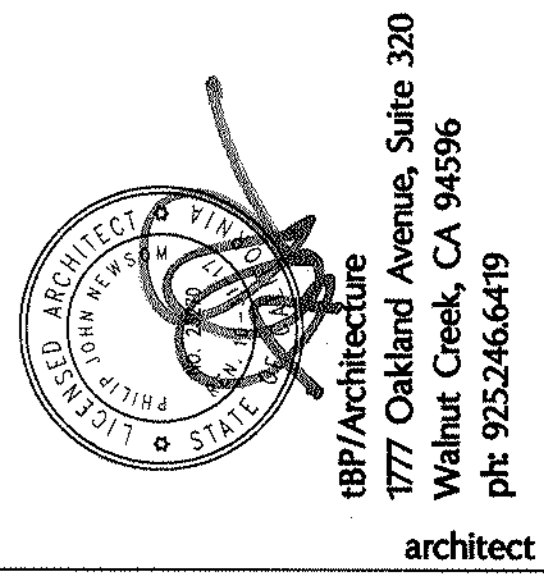
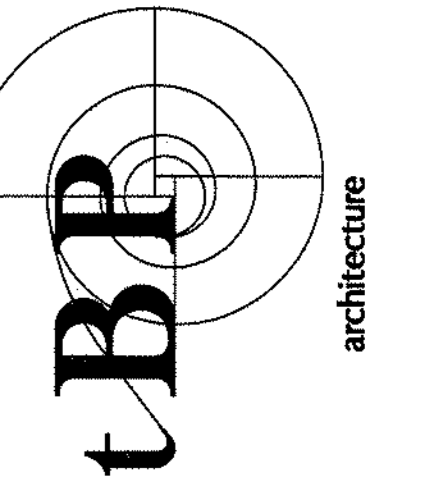
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BUILDING 100 GENERATOR

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FAIRFIELD, CA 94565

tBP project number:	20071.00
file name:	A01 COVER SHEET
drawn by:	checked by:
date:	OCTOBER 17, 2017
Rev.:	date: description:
	10/17/17 Const. Documents

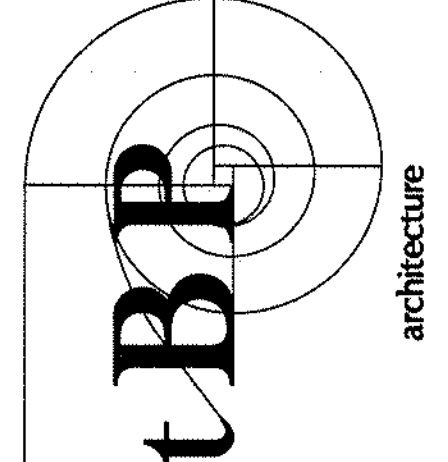
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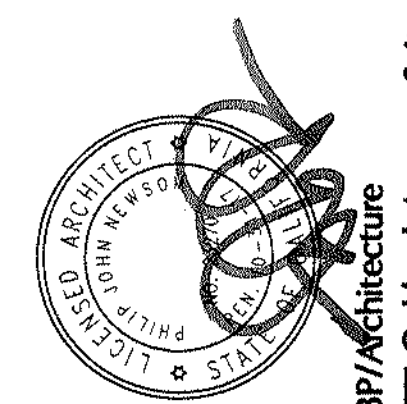
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GENERAL NOTES



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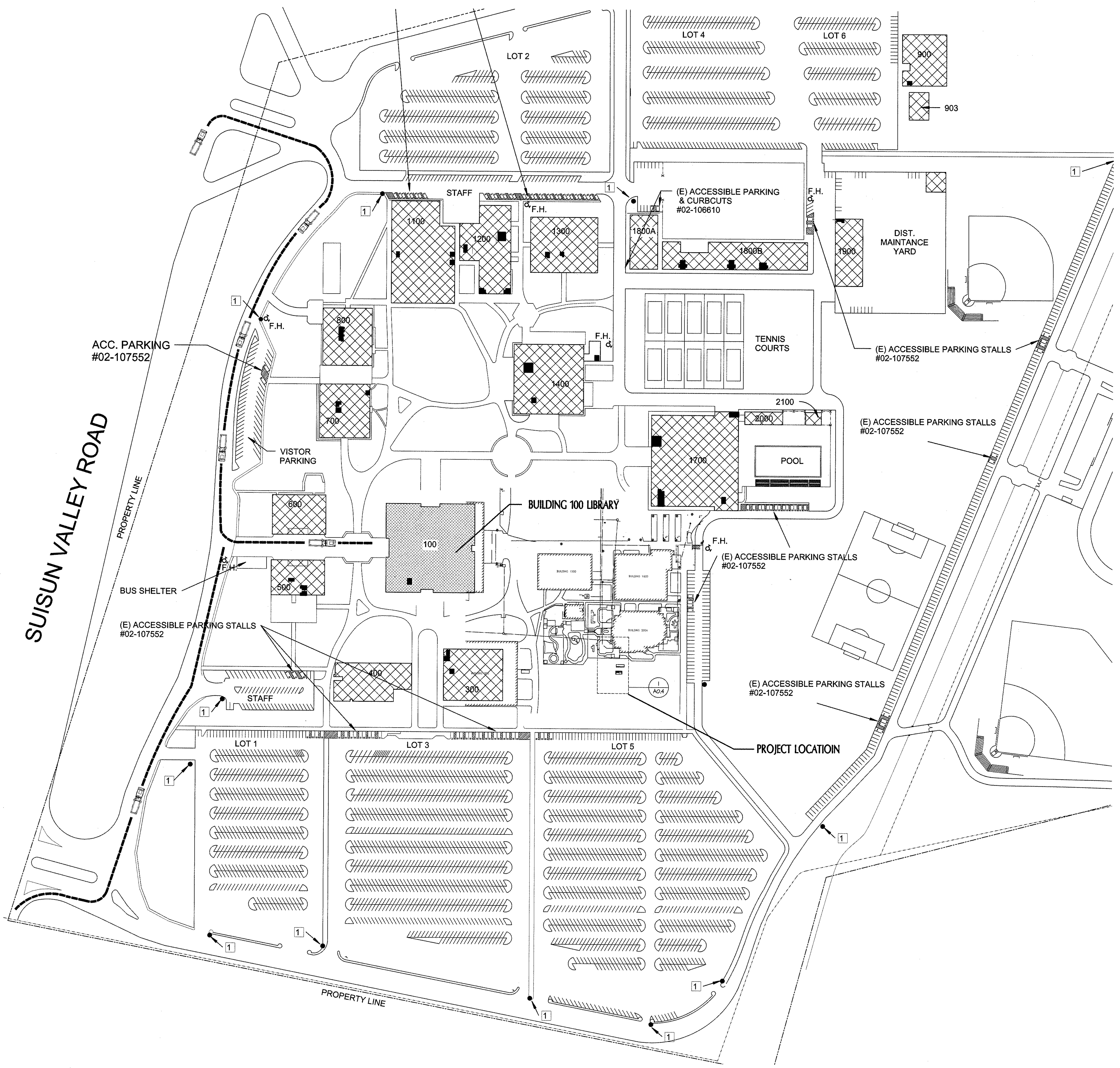
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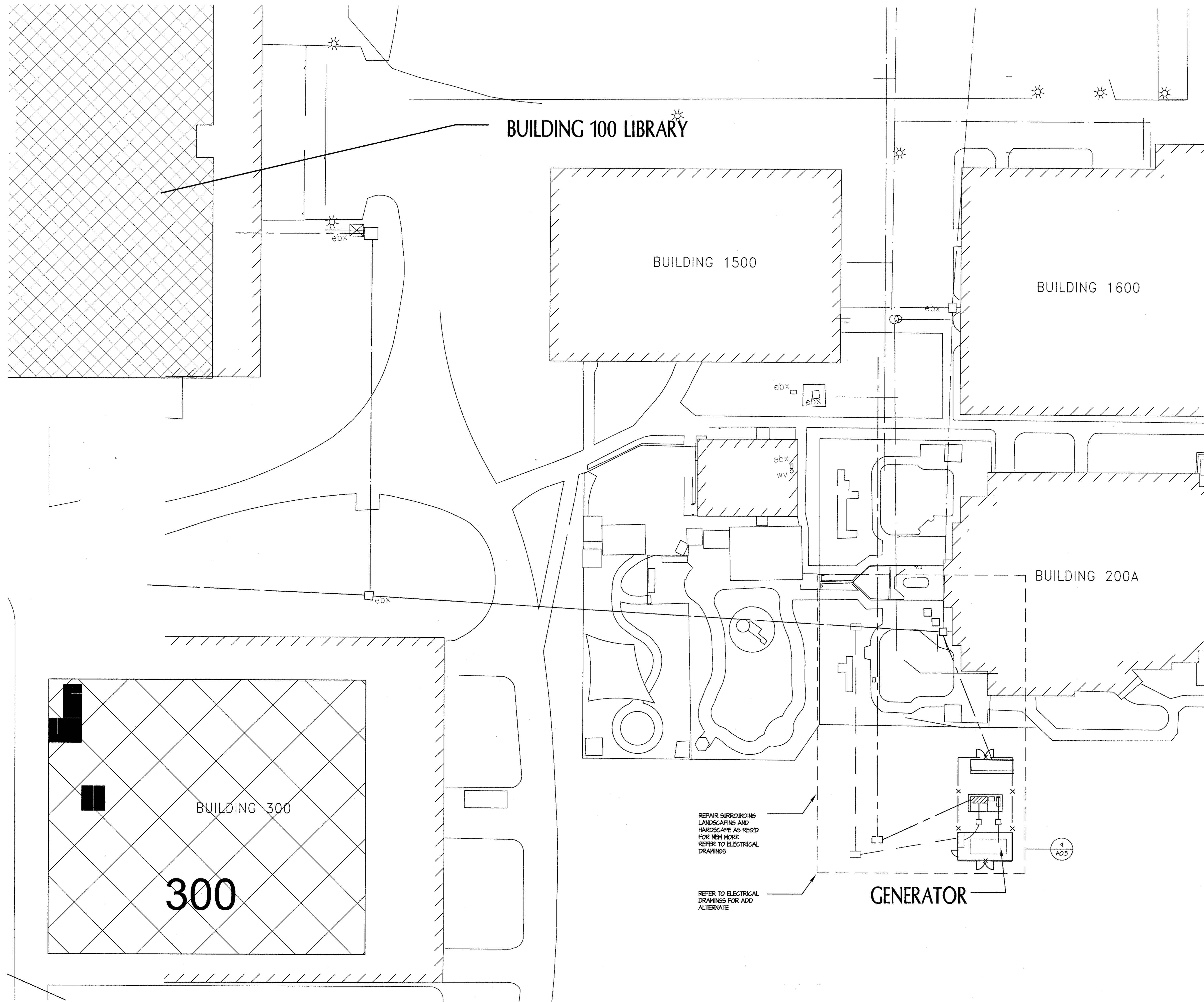
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**CAMPUS SITE PLAN**

drawing no:  
**A0.3**  
drawing of

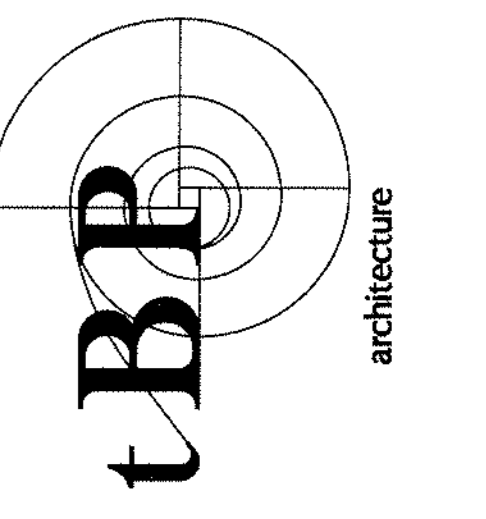


CAMPUS SITE PLAN  
SCALE: 1"=100' 1

LEGEND



SITE PLAN 1  
SCALE: 1"=20'



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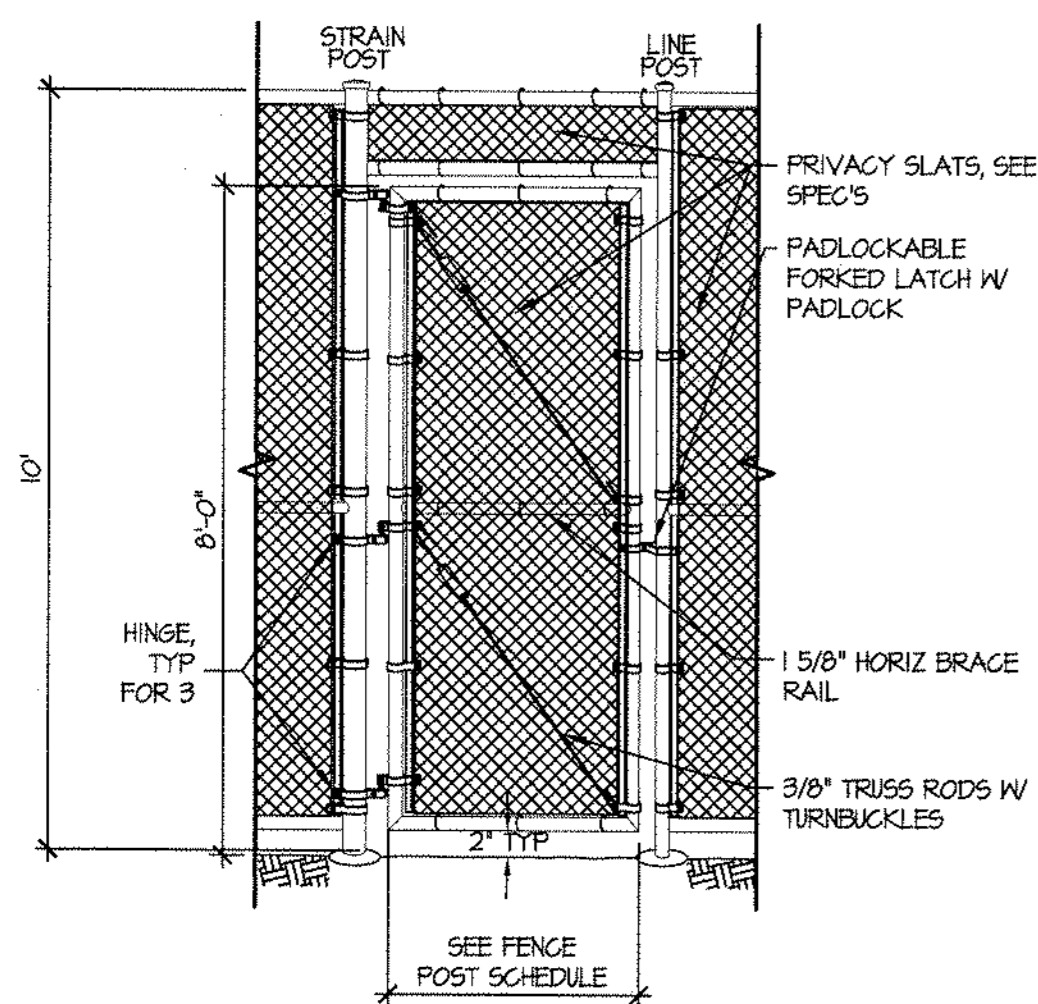
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**SITE PLAN**

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**A0.4**  
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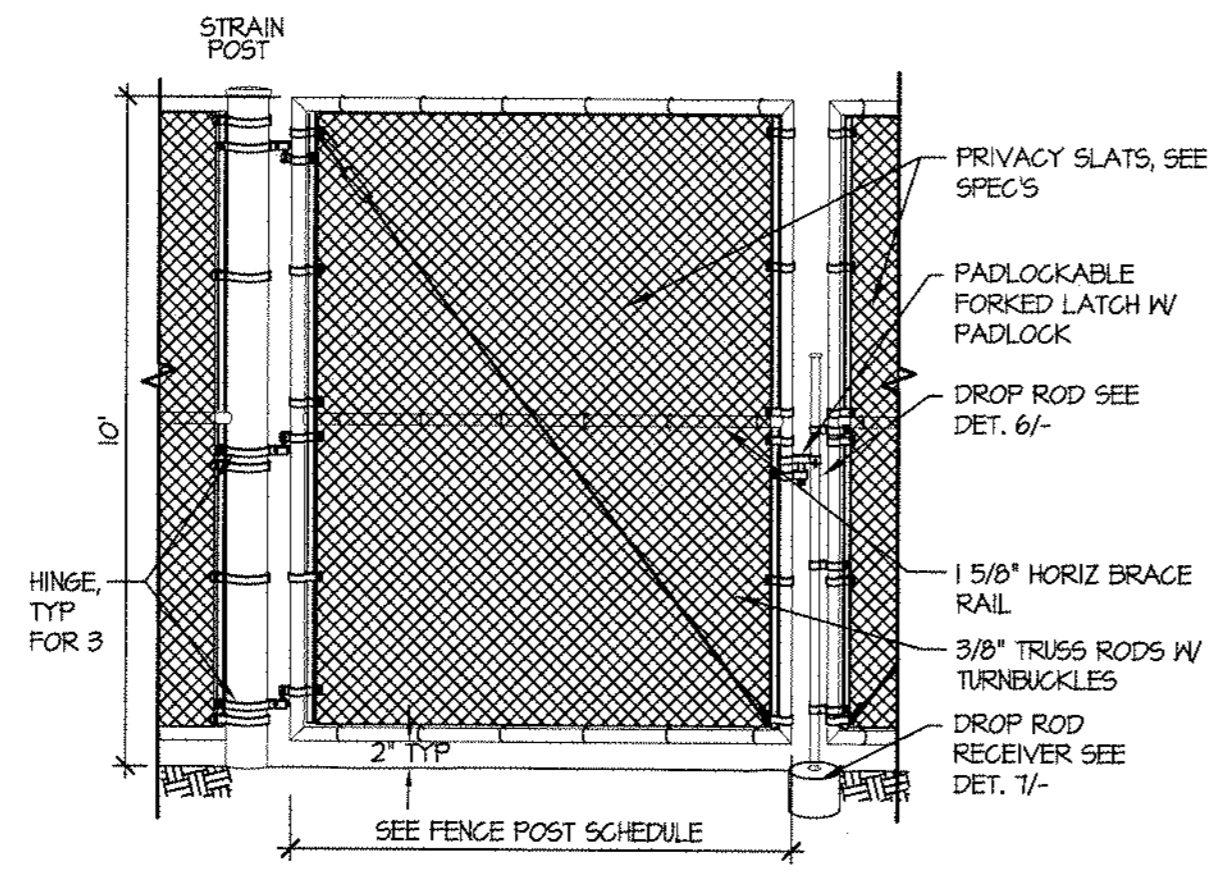


REFER TO FENCE POST SCHEDULE/GATE POST FOR ADDITION INFORMATION

PEDESTRIAN GATE

NTS

1

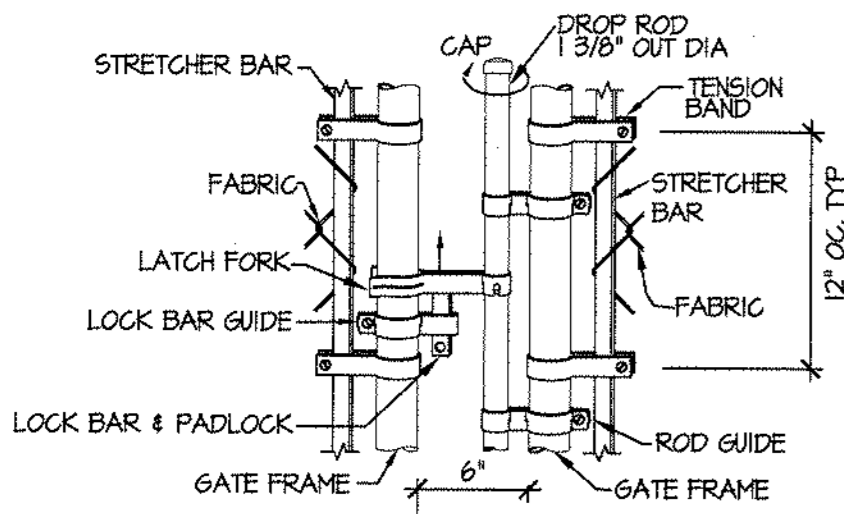


REFER TO FENCE POST SCHEDULE/GATE POST FOR ADDITION INFORMATION

VEHICLE GATE PAIR

NTS

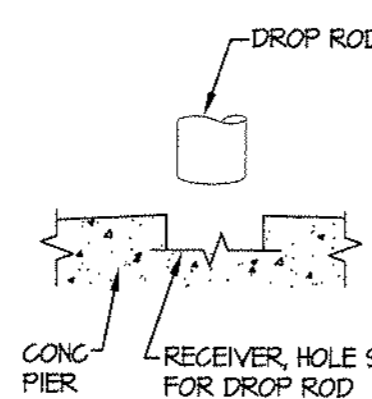
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DROP ROD ASSEMBLY

NTS

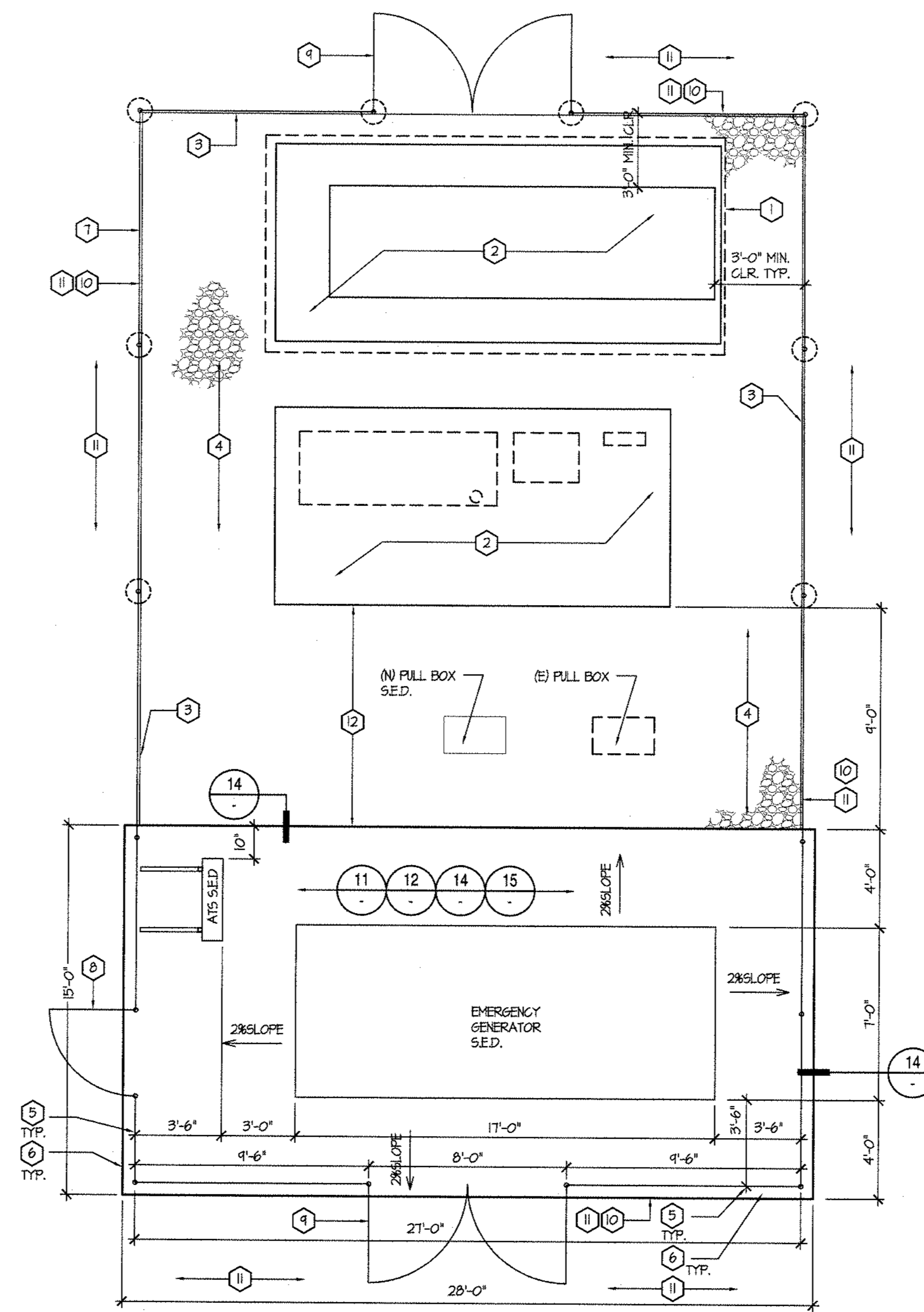
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DROP ROD RECEIVER

NTS

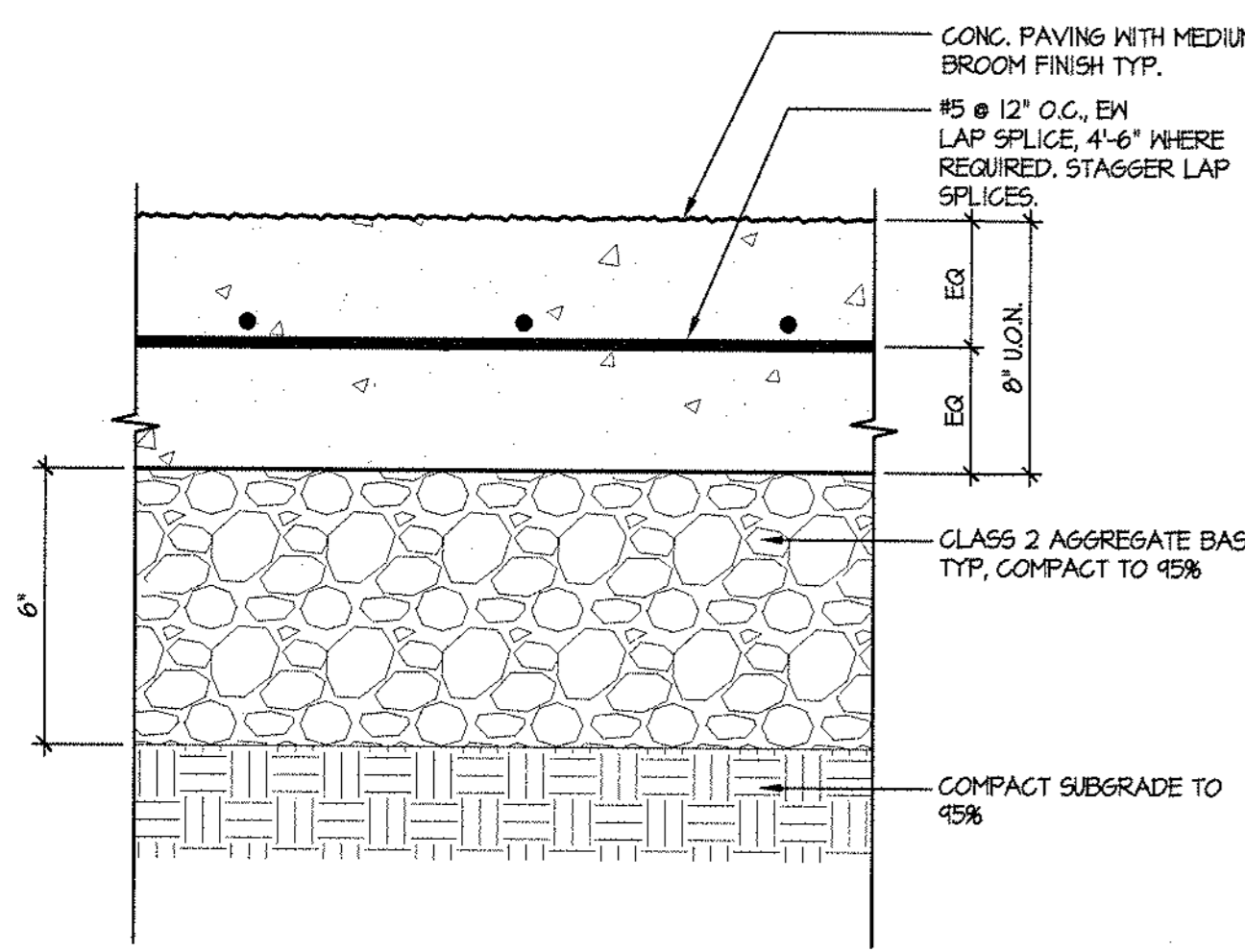
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GENERATOR PLAN

SCALE: 1/4" = 1'-0"

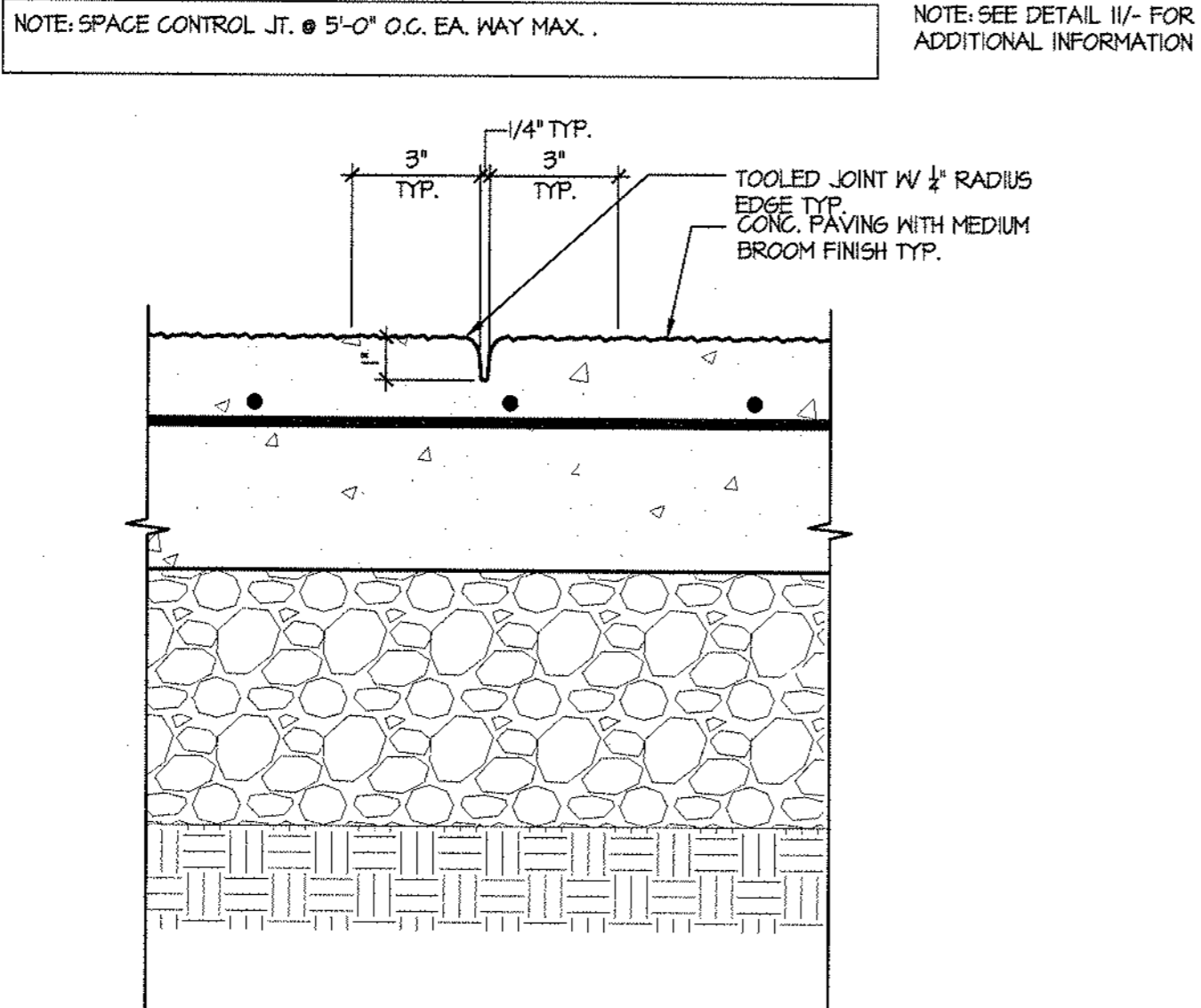
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CONCRETE PAD ON GRADE

SCALE: 3" = 1'-0"

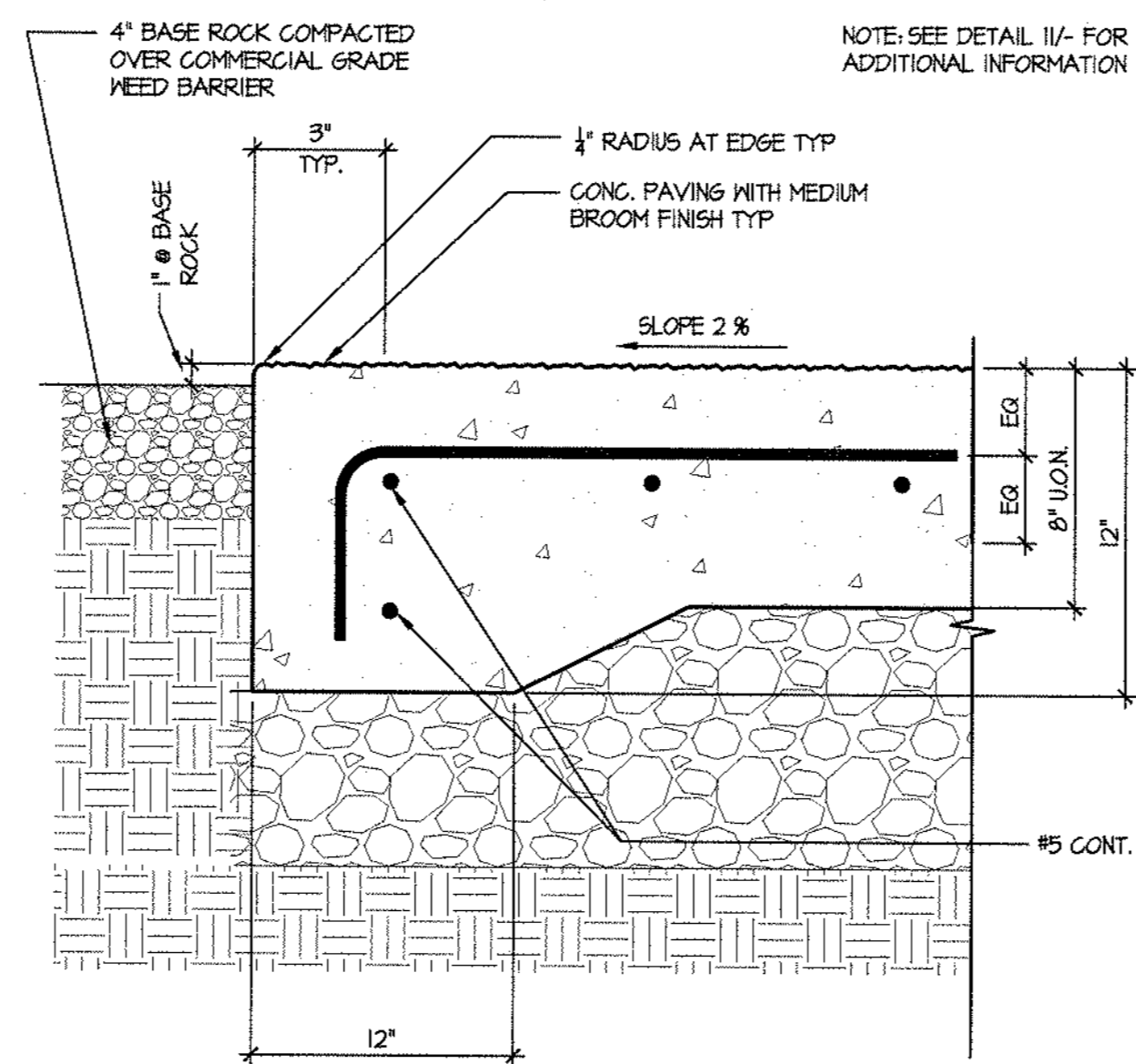
11



TYPICAL CONTROL JOINT

SCALE: 3" = 1'-0"

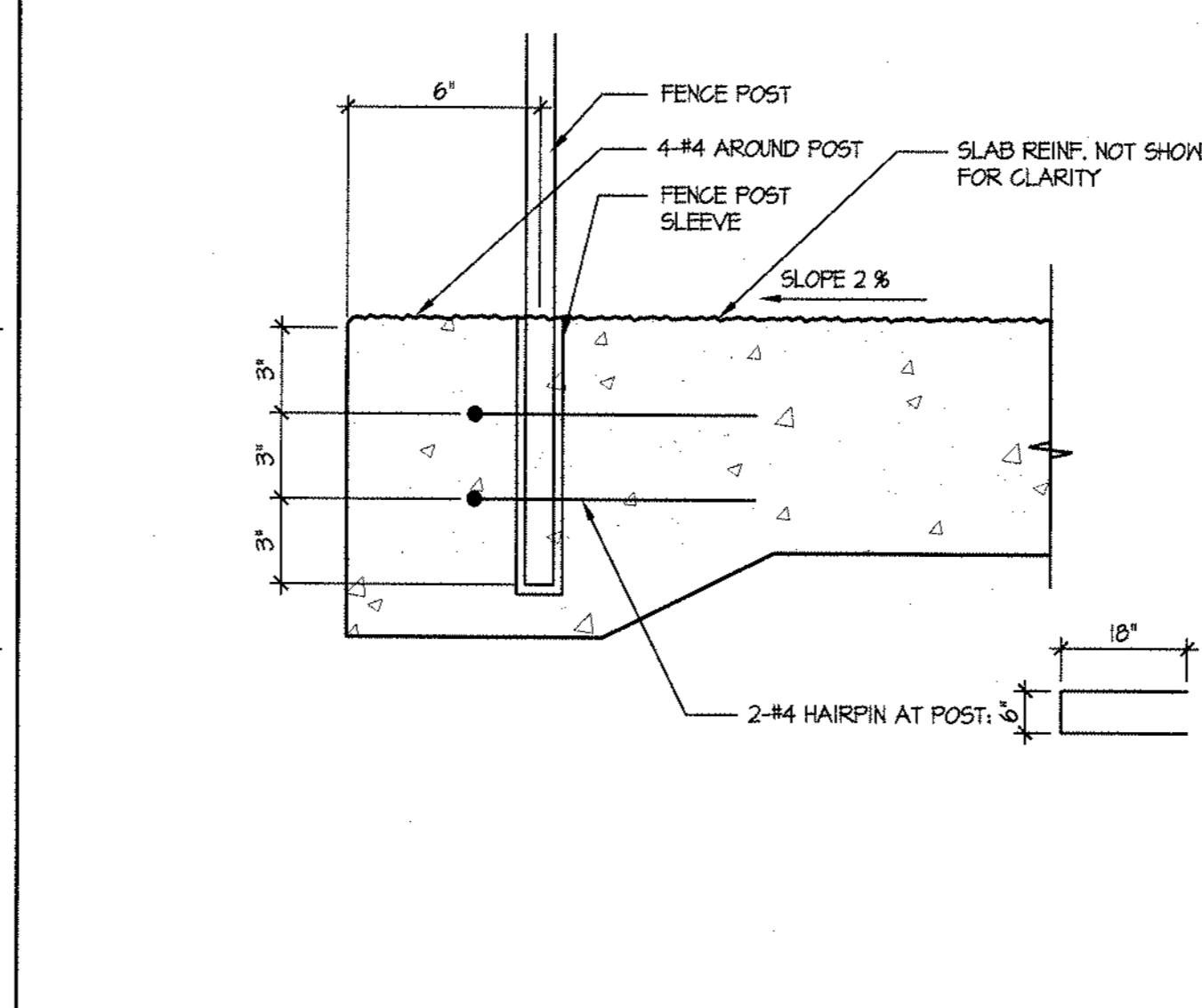
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EDGE OF CONC. PAD

SCALE: 3" = 1'-0"

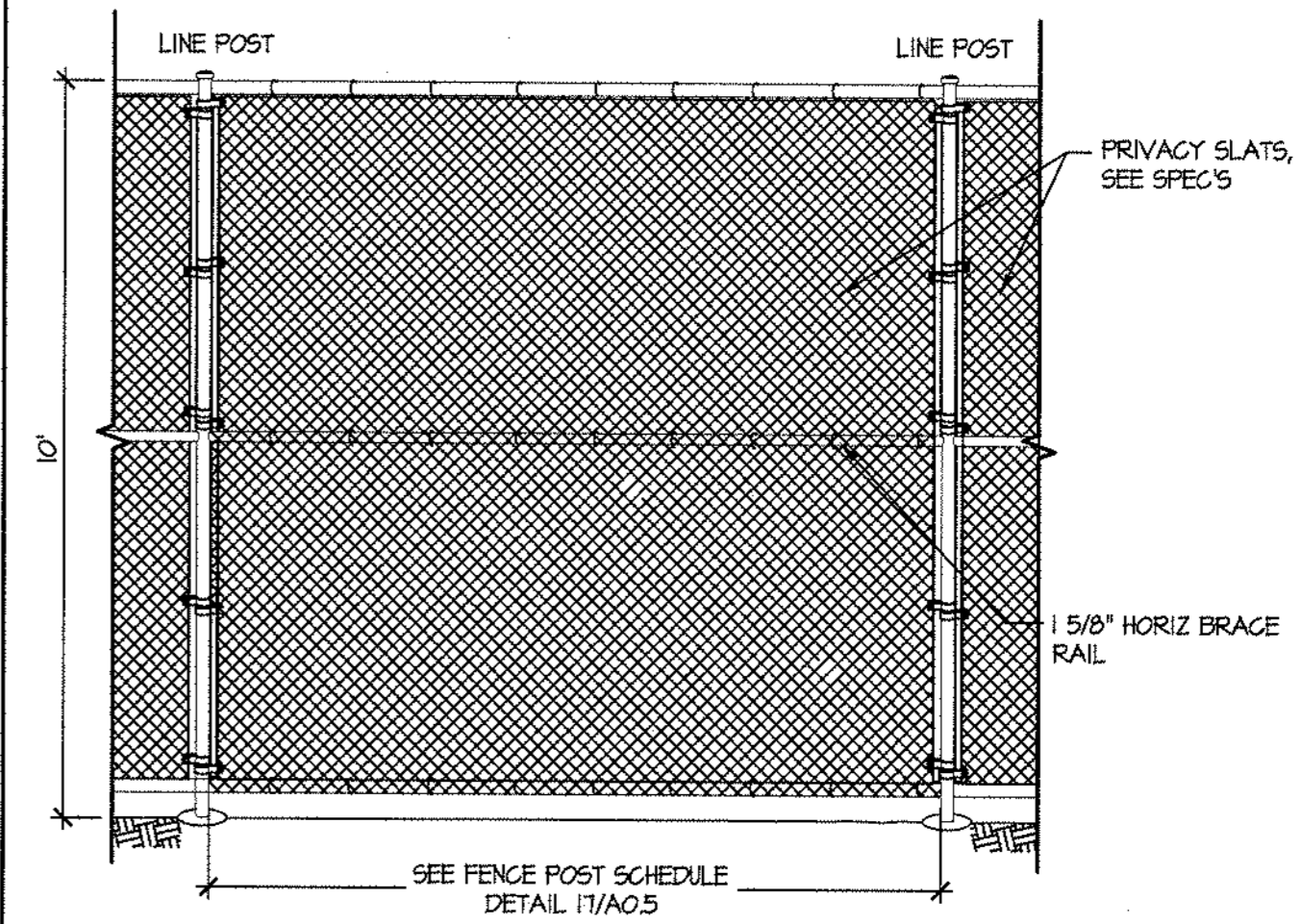
14



FENCE POST AT SLAB

NTS

15



FENCE DETAIL

NTS

10

GATE POST							
FENCE DESCRIPTION	HGT FEET	LEAF LENGTH FEET	POST SIZE	FTG DIA INCHES	FTG DEPTH FEET	VERT REINF	SPIRAL TIES
CHAIN LINK PEDESTRIAN	10	3'-6"	2.5" SP	12	3'-6"	4-#4	#3 @ 6"
CHAIN LINK VEHICULAR	10	4'-0"	3" SP	12	3'-6"	4-#4	#3 @ 6"

LINE POST									END, CORNER, PULL POST		
FENCE DESCRIPTION	HGT FEET	WIND OPACITY	POST SPACING FEET	POST SIZE	FTG DIA INCHES	FTG DEPTH FEET	VERT REINF	SPIRAL TIES	POST SIZE	FTG DIA INCHES	FTG DEPTH FEET
CHAIN LINK	10	0.2	10	2" SP	12	3.5	4-#4	#3 @ 6"	2.5" SP	12	4.0

PIPE SIZES SHOWN ARE NOMINAL INSIDE DIA TYP

SP = STD PIPE, SCHED 40

SEE SPEC FOR REQMTS NOT SHOWN HERE

FENCE POST SCHEDULE

17

PLAN KEYNOTES

- DEM'D (E) CHAIN LINK FENCE, GATE & CONCRETE FOOTING
- (E) EQUIPMENT PAD TO REMAIN, PROTECT S.E.D.
- 2X PRESSURE TREATED WOOD BORDER EDGE ALL AROUND. HEIGHT AS REQUIRED TO ACHIEVE 14/10.5
- 3/4" DRAIN ROCK (4" THICK) OVER COMMERCIAL GRADE NEED BARRIER LANDSCAPE FABRIC
- CENTER OF CHAIN LINK FENCE, TYP.
- EDGE OF CONCRETE PAD, TYP.
- CHAIN LINK FENCE TYP. FOOTING SHOWN DASHED, SEE DET. 10
- PEDESTRIAN GATE, SEE DET. 1
- VEHICLE GATE, SEE DET. 2
- CLEAR AND GRUB SURROUNDING AREA, PREPARE SITE FOR NEW WORK, RELOCATE IF NEEDED IRRIGATION LINES/HEADS, V.I.F.
- PROTECT ALL EXISTING ELECTRICAL & UTILITIES, REFER TO ELECTRICAL DRAWINGS
- MATCH ELEVATION OF EXISTING PAD PROVIDE ALL GRADING REQUIRED

NOTES

- CONCRETE**
- MIXING, BATCHING, TRANSPORTING AND PLACING OF ALL CONCRETE SHALL CONFORM TO ACI 301.
  - ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATE
  - THE SCHEDULE BELOW INDICATES THE MINIMUM CONCRETE DESIGN MIX REQUIREMENTS. SEE THE SPECIFICATIONS FOR ADDITIONAL CONCRETE PROPERTIES
- | TYPE | LOCATION      | MINIMUM 28 DAY STRENGTH (PSI) | MAXIMUM HEIGHT (FCF) |
|------|---------------|-------------------------------|----------------------|
| A    | SLAB ON GRADE | 3000                          | 150                  |
- CONCRETE CLEAR COVER OVER MILD REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
    - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
    - CONCRETE EXPOSED TO EARTH OR WEATHER:
      - NO. 5 BARS AND SMALLER = 1 1/2"
      - NO. 6 BARS AND LARGER = 2"
    - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
      - SLABS, WALLS, COLUMNS = 3/4"
      - NO. 11 BARS AND SMALLER = 3/4"
  - NON-SHRINK GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI AT 28 DAYS
- CONSTRUCTION JOINTS**
- NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED IN BEAMS, WALLS OR SLABS UNLESS APPROVED BY THE SEOR IN WRITING.
  - ALL CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED AND CONSTRUCTED IN ACCORDANCE WITH TYPICAL CONSTRUCTION JOINT DETAILS.
  - ALL CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED AND CONSTRUCTED IN ACCORDANCE WITH ARCHITECTURAL FINISHES AND TREATMENTS.
  - ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS OR OTHER FOREIGN MATTER PRIOR TO PLACING ADJACENT CONCRETE.
- REINFORCING STEEL**
- ALL REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 AND ASTM A106 WHERE REQUIRED; ALL BARS TO BE GRADE 60 UNLESS OTHERWISE NOTED
  - REINFORCING BARS TO BE WELDED SHALL BE ASTM A106.
  - WELDING WIRE REINFORCING SHALL BE ASTM A106.
  - WELDED BAR ANCHORS SHALL BE NELSON D212 DEFORMED BAR ANCHORS PER ICC-ES ESR - 5217.
  - DETAIL REINFORCING STEEL BASED ON THE PROJECT REQUIREMENTS, ACI 318, AND ACI 315.
  - TERMINATION OF REINFORCEMENT:
    - TERMINATE ALL BARS IN LAPS, 40 DEGREE BENDS OR WITH DOVELS EMBEDDED INTO EXISTING CONCRETE.

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owner

tBP project number: 20871.00

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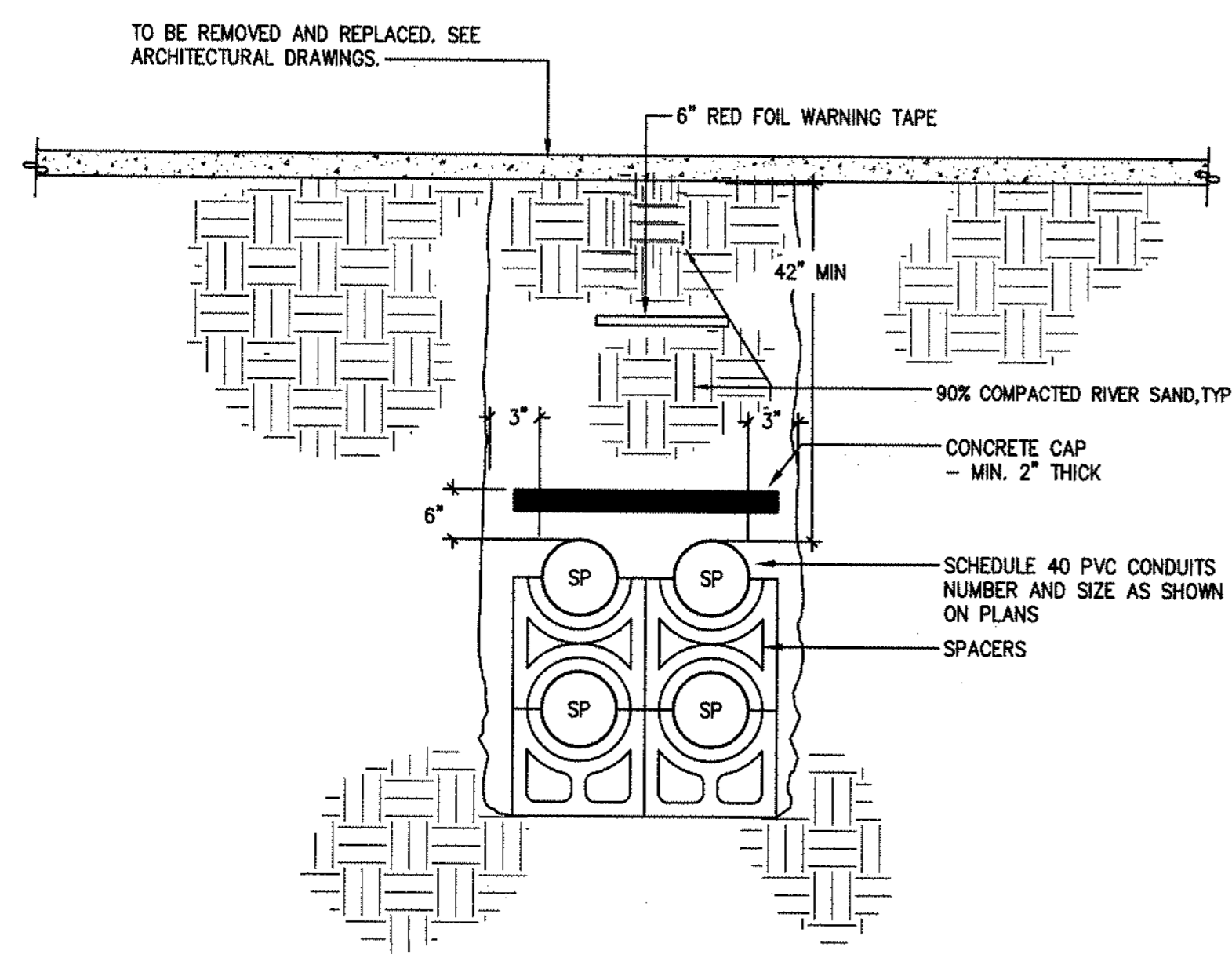
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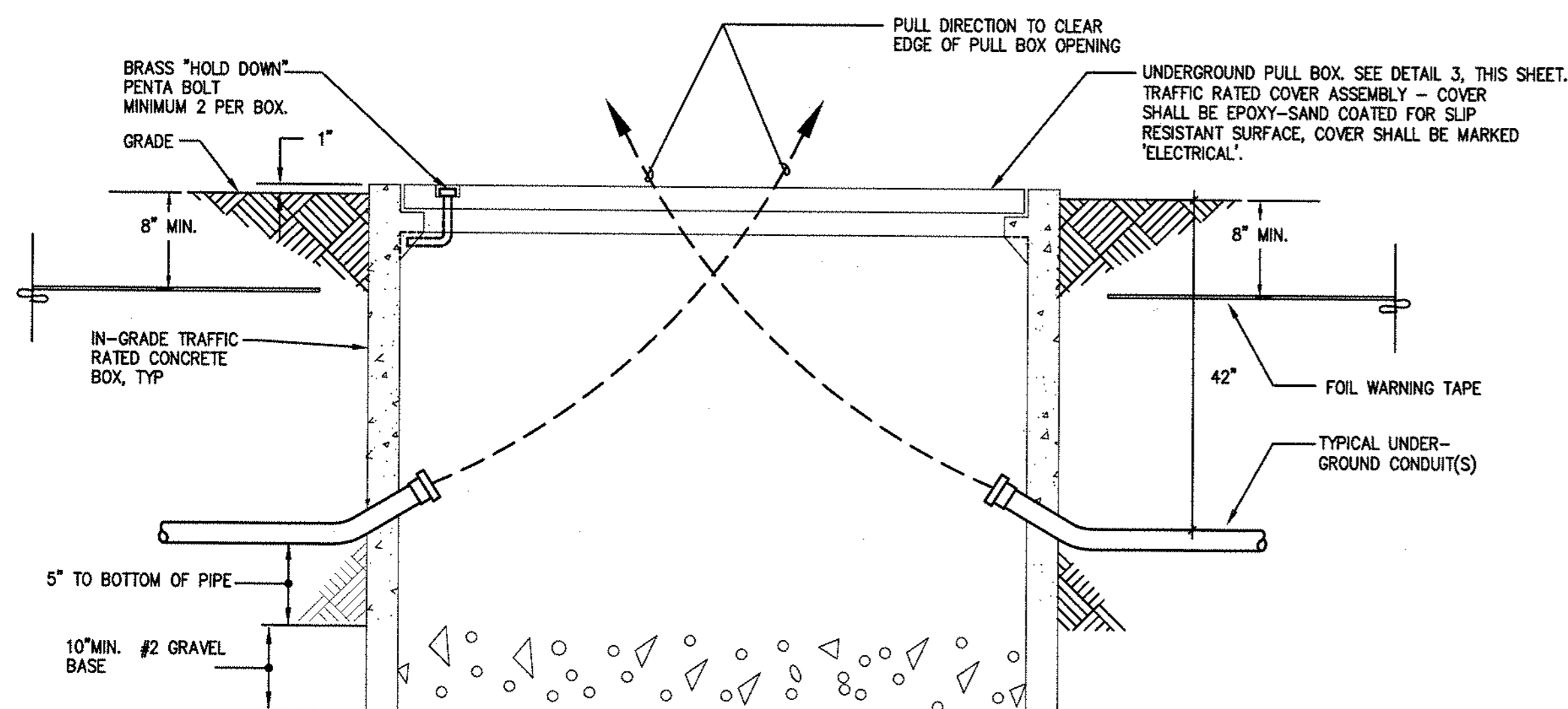
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drawing no: A0.5

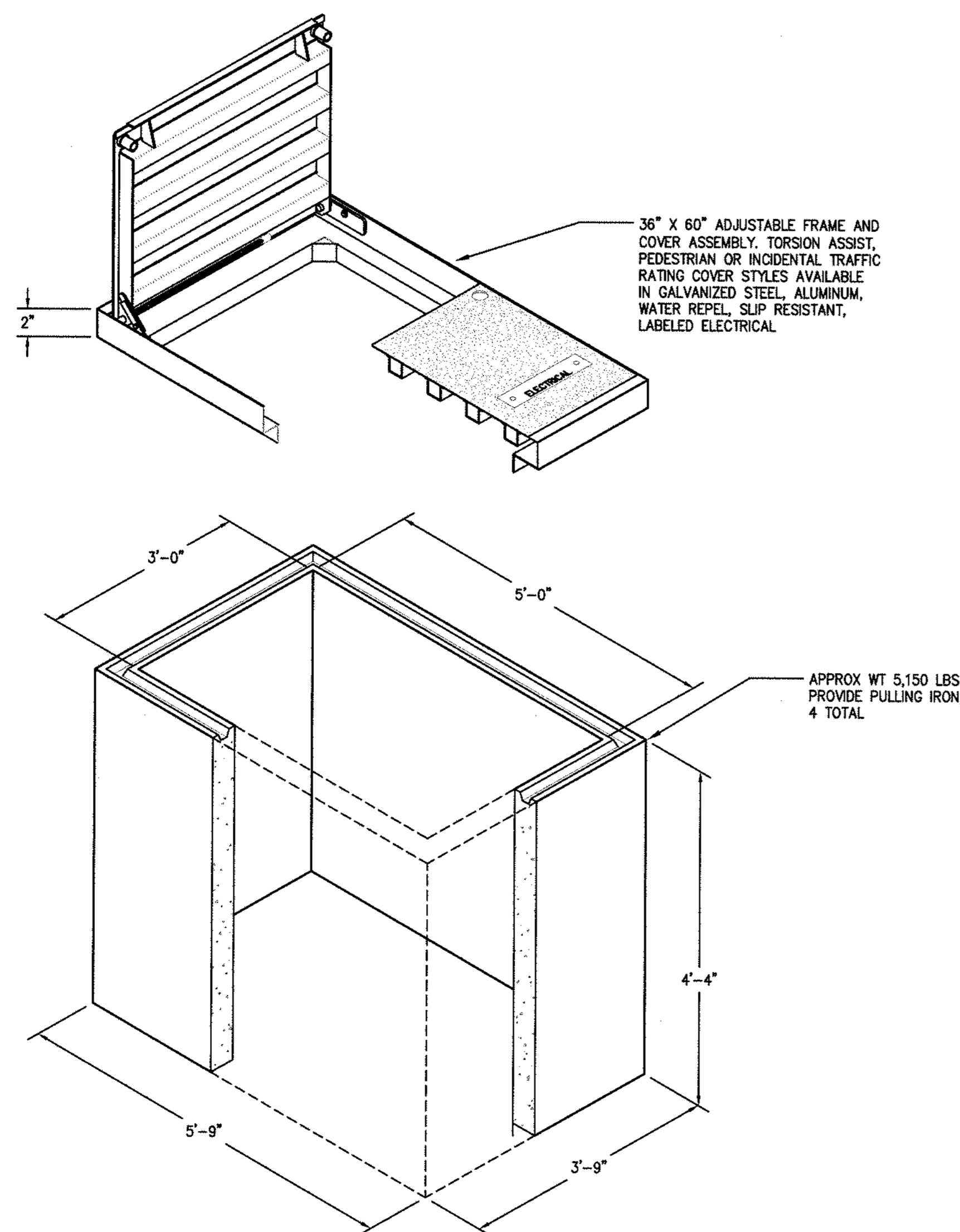
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**1 DUCTBANK DETAIL**  
NOT TO SCALE



**2 TYPICAL UNDERGROUND PULLBOX INSTALLATION DETAIL**  
NOT TO SCALE

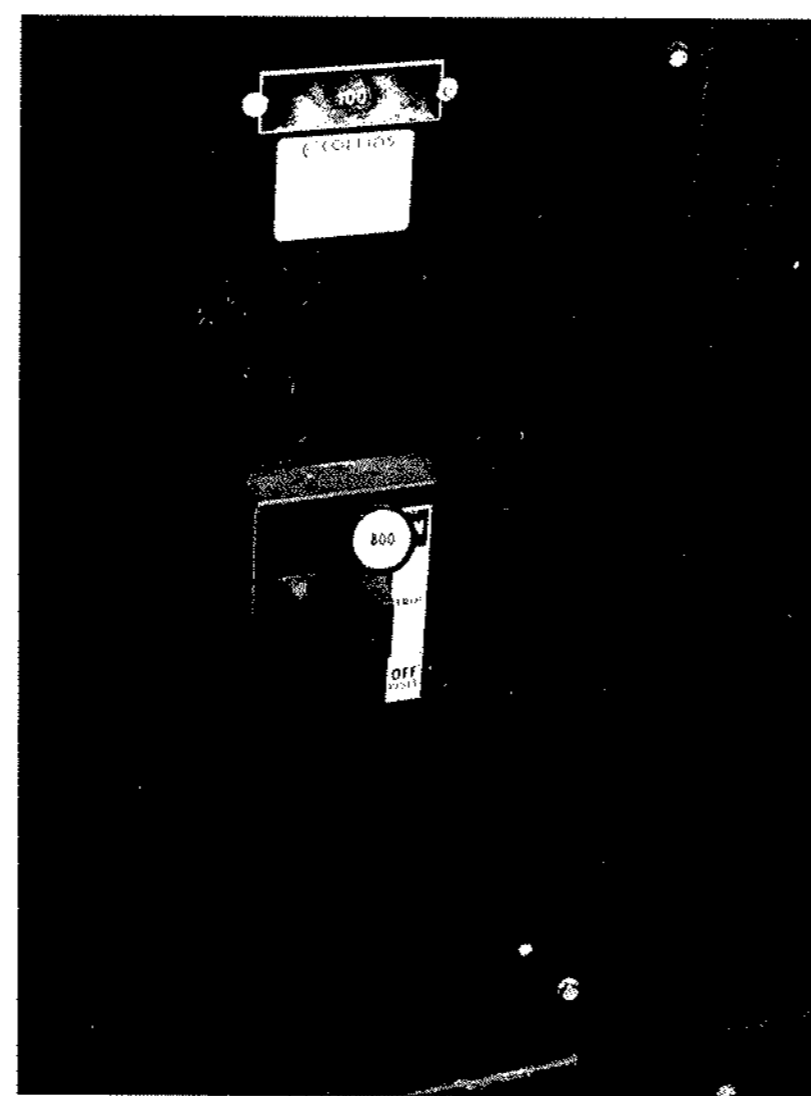


**3 TYPICAL UNDERGROUND 3X5 PULLBOX DETAIL**  
NOT TO SCALE



EXISTING CIRCUIT BREAKER FOR LIBRARY BUILDING 100 TO BE LOCKED IN THE 'OFF' POSITION AFTER RE-SPLICING OF EXISTING CONDUCTORS WITH NEW CONDUCTORS. PROVIDE PADLOCK TO LOCK CIRCUIT BREAKER IN 'OFF' POSITION.

**4 EXISTING SUBSTATION #4 DISTRIBUTION SECTION**  
NOT TO SCALE



EXISTING CIRCUIT BREAKER FOR LIBRARY BUILDING 100 TO BE LOCKED IN THE 'OFF' POSITION AFTER RE-SPLICING OF EXISTING CONDUCTORS WITH NEW CONDUCTORS. PROVIDE PADLOCK TO LOCK CIRCUIT BREAKER IN 'OFF' POSITION.

**5 EXISTING LIBRARY BUILDING 100 MAIN CIRCUIT BREAKER AT SUBSTATION #4**  
NOT TO SCALE

**NOTE:**

COORDINATE CLOSELY WITH DISTRICT FOR SCHEDULING OF ALL REQUIRED SHUTDOWNS FOR ELECTRICAL SERVICE TO BUILDING 100 FOR SPLICING OF NEW CONDUCTORS TO EXISTING CONDUCTORS AS CALLED OUT ON DRAWINGS. PROVIDE MINIMUM OF 2 WEEKS NOTICE TO ALLOW TIME FOR IT DEPARTMENT SCHEDULING OF SHUT OF DATA EQUIPMENT. INFORM DISTRICT OF THE REQUIRED LENGTH OF TIME FOR THE SHUTDOWN.

**ELECTRICAL SYMBOL LIST**

NOTE: DASHED SYMBOLS ON PLANS DENOTE EXISTING DEVICES

- TRANSFORMER WITH IDENTIFICATION
- TRANSFORMER WITH IDENTIFICATION
- CONDUIT CONCEALED UNDERGROUND
- EXISTING BRANCH CIRCUIT CONDUIT
- DISCONNECT SWITCH - FUSED AS REQUIRED, WEATHERPROOF FOR OUTDOORS, SIZED PER MANUFACTURER'S REQUIREMENTS
- MOTOR CONNECTION
- CONDUIT UP
- CONDUIT DOWN
- EXISTING
- EXISTING
- EMERGENCY POWER
- EXISTING TO REMAIN
- NEW
- CENTERLINE
- COPPER
- MAIN SWITCHBOARD
- EMPTY CONDUIT WITH PULL CORD
- PULL BOX
- WEATHERPROOF
- UNDERGROUND
- UNLESS OTHERWISE NOTED
- VERIFY IN FIELD
- TRANSFORMER
- SHEET NOTE

**GENERAL ELECTRICAL NOTES**

1. ELECTRICAL CONTRACTOR IS TO PROVIDE LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, RELATED HAND TOOLS, SPECIAL AND OCCASIONAL SERVICES TO CONSTRUCT AND INSTALL THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED AND SHOWN ON THE PLANS.
2. BONDING JUMPERS SHALL BE INSTALLED TO INSURE CONTINUITY WHERE CONDUIT CONNECTIONS AT CONCENTRIC KNOCKOUTS ARE TO SERVE AS A GROUND.
3. PROVIDE GREEN THINW COPPER GROUND WIRE FROM PANELBOARD GROUND BUS TO ALL BRANCH CIRCUITS.
4. THE ELECTRICIAN SHALL CHECK THE TIGHTNESS OF ALL PANELBOARD BUSES AND CIRCUIT BREAKER LUGS. COMPLETELY VACUUM AND CLEAN INTERIOR OF EQUIPMENT PRIOR TO TURN OVER TO THE OWNER.
5. ALL NEW AND EXISTING PANELBOARDS AND SWITCHBOARDS SHALL BE PROVIDED WITH NEW TYPED WRITTEN DIRECTORIES TO IDENTIFY THE LOCATION OF EACH LOAD SERVED.
6. ALL EQUIPMENT SHALL BE U.L. LISTED AND INSTALLED AS PER LISTING OR LABELING (I.E. MAX. FUSE SIZES MEAN FUSE PROTECTION REQUIRED).
7. COORDINATE EQUIPMENT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH CONTRACTOR RESPONSIBLE FOR PROVIDING EQUIPMENT AND EQUIPMENT MANUFACTURER DATA SHEETS.
8. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF MANUFACTURER'S OR OWNER'S DATA AVAILABLE AND/OR VERIFY DATA IN THE FIELD FOR PROVIDING AND INSTALLING CORRECT CABLE LENGTHS.
9. ALL EQUIPMENT MUST BE LISTED, LABELED, OR CERTIFIED BY A NATIONAL RECOGNIZED TESTING LABORATORY (NRTL).
10. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE PROJECT MANUAL.
11. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRIC CODE, LATEST EDITION.
12. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
13. ALL UNDERGROUND CONDUIT RUNS SHALL BE SEALED TO PREVENT GAS/MOISTURE ENTERING THE PIPE PER ARTICLE 230-8, 300.5 AND 300.50E.
14. ALL EQUIPMENT/COMPONENTS/DEVICES INSTALLED OUTDOOR SHALL BE U.L. LISTED FOR WET LOCATION.
15. THE CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES.
16. ALL CONDUIT STUB OUTS AND CONDUITS TERMINATING TO A J-BOX, CABINET, AND THE LIKE SHALL BE PROVIDED WITH INSULATED THROAT. BOX OR CABINET COVER SHALL BE LABELED AS TO USE.
17. VERIFY EXACT REQUIREMENTS REQUIRED REGARDING SIZE, QUANTITY AND LOCATION OF EQUIPMENT WITH DISTRICT BEFORE MAKING ANY INSTALLATIONS INVOLVING THEIR EQUIPMENT.

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**BUILDING 100 GENERATOR**

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tBP project number : 20871.0

file name:

drawn by: DM checked by: SCH

date: October 17, 2017

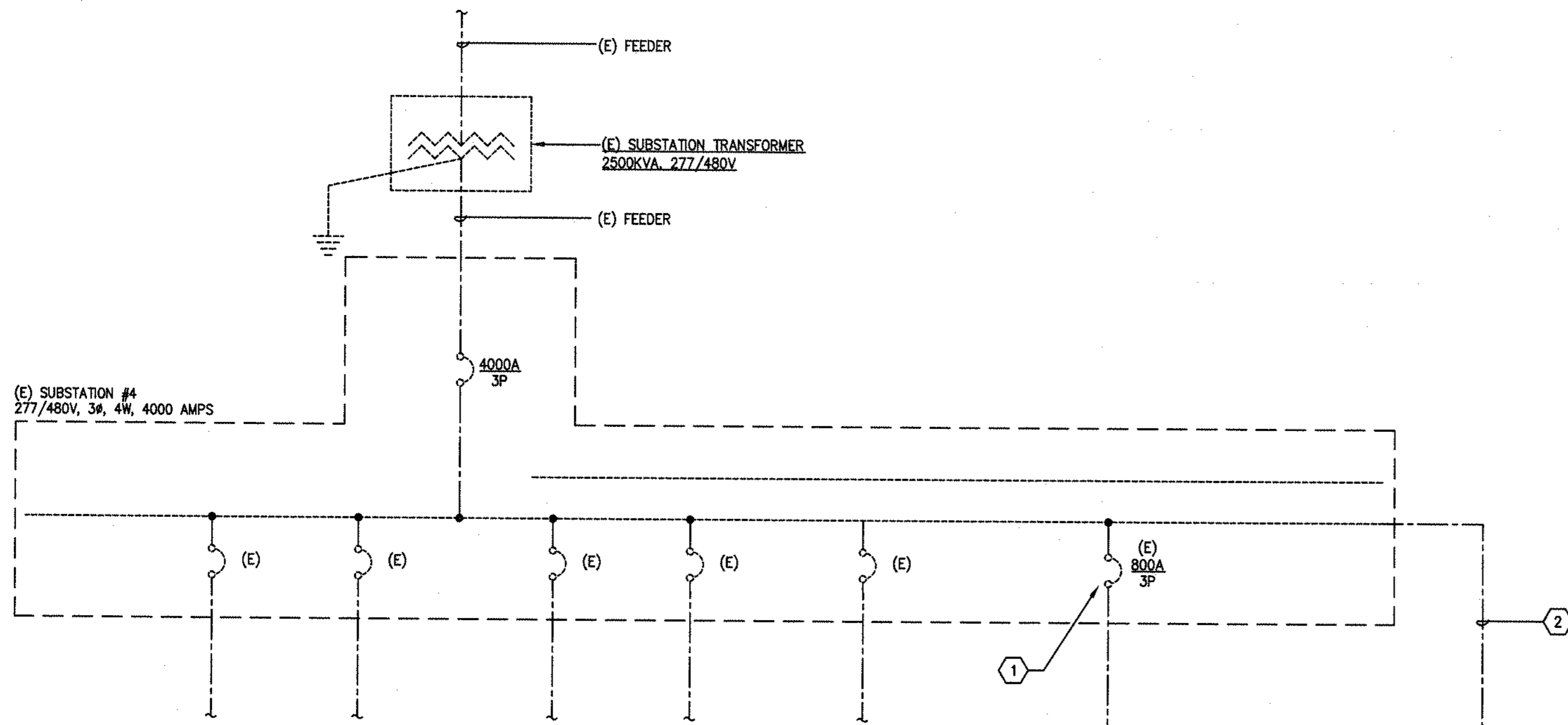
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drawing title:  
**ELECTRICAL NOTES, SYMBOLS & DETAILS**

drawing no:  
**E0.1**  
drawing of



DESCRIPTION	LOAD (KVA)				CB	CKT	SN	CB	CKT	LOAD (KVA)				DESCRIPTION
	LTO.	REC.	RES.	MOT.						LTO.	REC.	RES.	MOT.	
SPARE					402	1	*	2	201					SPARE
SPARE					402	3	*	4	201					SPARE
SPARE					402	5	*	6	201					SPARE
SPARE					402	7	*	8	201					SPARE
SPARE					402	9	*	10	201					SPARE
SPACE						11	*	12	201					SPACE
SPACE						13	*	14						SPACE
SPACE						15	*	16						SPACE
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SPACE						23	*	24						SPACE
SPACE						25	*	26						SPACE
SPACE						27	*	28						SPACE
SPACE						29	*	30						SPACE
SPACE						31	*	32						SPACE
SPACE						33	*	34						SPACE
SPACE						35	*	36						SPACE
SPACE						37	*	38						SPACE
SPACE						39	*	40	125/3					(N) GENERATOR PANEL
SPACE						41	*	42						SPACE
TOTAL														

VOLTS: 120/208V, 3ø 4W  
 BUS: 225 AMP  
 MAIN: 225 AMP MB

MTG: SURFACE  
 TYPE: \_\_\_\_\_  
 KAIC: 10

CONNECTED KVA: \_\_\_\_\_  
 CONNECTED AMPS: \_\_\_\_\_

**SHEET NOTES**

- EXISTING CIRCUIT BREAKER TO BE LOCKED IN THE "OFF" POSITION AFTER RE-SPLICING OF EXISTING CONDUCTORS WITH NEW CONDUCTORS. PROVIDE PADLOCK TO LOCK CIRCUIT BREAKER IN "OFF" POSITION. SURRENDER KEYS (3 TOTAL) TO THE DISTRICT.
- EXISTING BUS TAP AND FEEDERS TO REMAIN. PROVIDED AND INSTALLED BY OTHERS.
- ADD ALTERNATE SCOPE. EXISTING CONDUIT AND FEEDERS TO BUILDING 100 MSB TO INTERCEPT. CONDUITS AND FEEDERS TO BE ABANDONED IN PLACE.
- EXISTING (2) 4" EMPTY CONDUITS. PULL IN NEW 3/500KCMIL AND 1/3/0 GROUND IN EACH.
- PROVIDE NEW PULL BOX AT EXISTING (2) 4" EMPTY CONDUIT STUB OUT LOCATION.
- NEW (2) 4" UNDERGROUND CONDUITS WITH 3/500KCMIL AND 1/3/0 GROUND IN EACH IN EACH. CONTRACTOR HAS OPTION TO BORE CONDUITS OR TRENCH AND BACKFILL. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES AND SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF ITS ACTIVITIES.
- ADD ALTERNATE SCOPE. PROVIDE NEW PULL BOX. INTERCEPT EXISTING FEEDERS AND SPLICE TO NEW FEEDERS. TAPE OFF EXISTING FEEDERS TO BE ABANDONED IN PLACE AND REMOVED BY CAMPUS AT A LATER DATE.
- EXISTING CONDUIT AND FEEDERS TO EXISTING BUILDING 100 MSB.
- PROVIDE NEW 125A/3P BREAKER IN EXISTING SPACE. MATCH EXISTING. VERIFY REQUIREMENTS WITH EMERGENCY GENERATOR MANUFACTURER.
- EXISTING (2) SPARE 4" UNDERGROUND CONDUITS IN DUCTBANK FROM EXISTING SUBSTATION #4 TO EXISTING PULL BOX TO BE VERIFIED BY CONTRACTOR WITH DISTRICT REPRESENTATIVE PRESENT. IF IT IS DETERMINED (2) SPARE 4" UNDERGROUND CONDUITS PATHWAY ARE CONDUITS FROM EXISTING PULL BOX TO SUBSTATION #4, THEN CONTRACTOR TO INTERCEPT SPARE CONDUITS. ALL OTHER CONDUITS IN DUCTBANK ARE TO REMAIN. CONTRACTOR TO PULL IN NEW 3/500KCMIL AND 1/3/0 GROUND IN EACH. IF IT IS DETERMINED (2) SPARE 4" UNDERGROUND CONDUITS DO NOT LEAD TO SUBSTATION #4, THEN CONTRACTOR SHALL PROCEED WITH ADD ALTERNATE, AS SHOWN BELOW.
- VERIFY EXISTING FEEDER FROM SUBSTATION #4 FEEDING LIBRARY BUILDING #100. CUT OUT EXISTING SPLICES AND RECONNECT TO NEW FEEDERS FROM TRANSFER SWITCH. CONTRACTOR SHALL VERIFY LIBRARY BUILDING 100 FEEDERS IN PULL BOX BEFORE RE-SPLICING. TAPE OFF OLD CONDUCTORS FROM SUBSTATION #4. CAMPUS WILL REMOVE OLD CONDUCTORS AT A LATER DATE.
- 2" CONDUIT WITH CONTROL WIRING FROM GENERATOR TO ATS.

1 ELECTRICAL PARTIAL ONE-LINE DIAGRAM - BASE SCOPE  
 NOT TO SCALE

2 ELECTRICAL PARTIAL ONE-LINE DIAGRAM - ADD ALTERNATE  
 NOT TO SCALE

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**BUILDING 100 GENERATOR**

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 FAIRFIELD, CA 94505

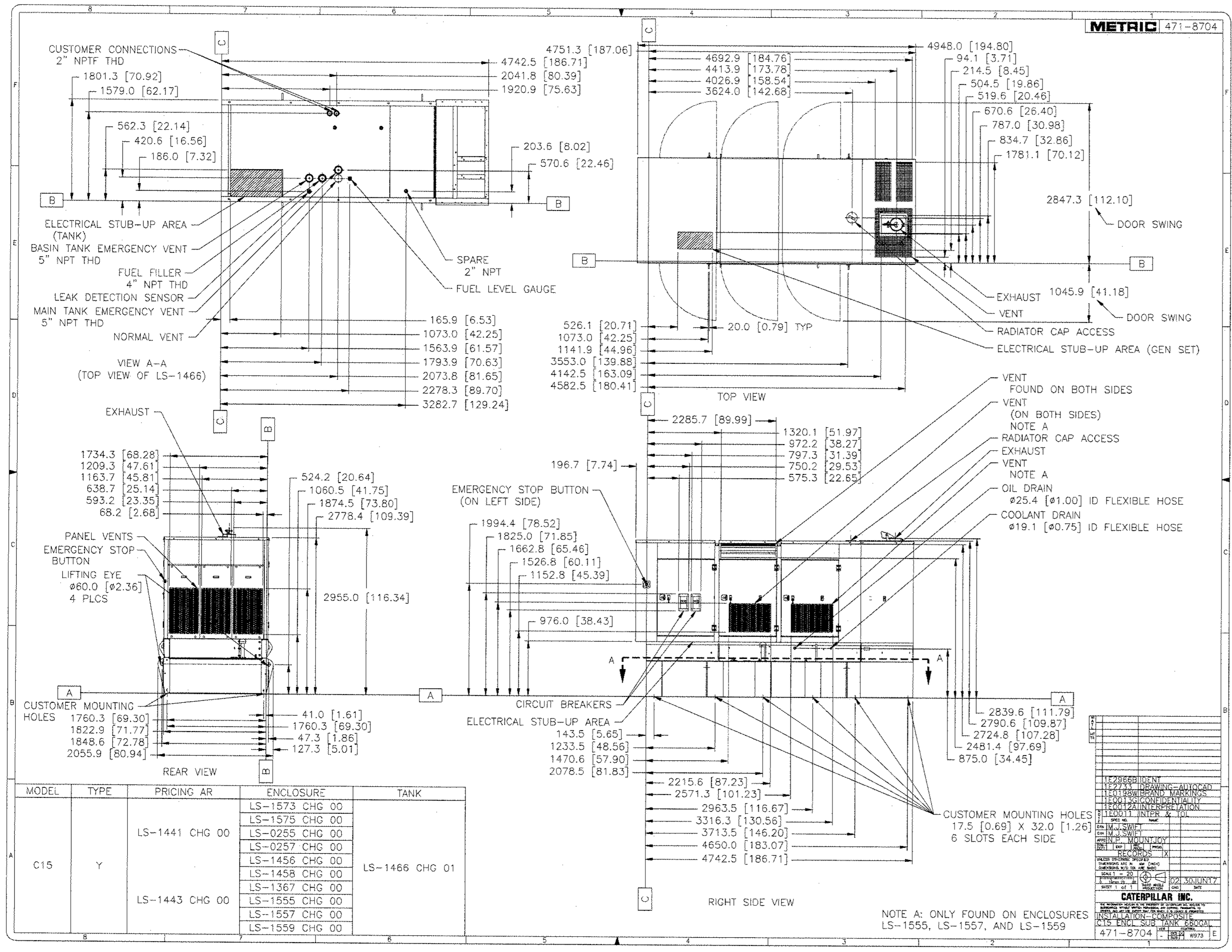
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tBP project number :	20871.0
file name:	
drawn by: DM	checked by: SCH
date: October 17, 2017	
Rev: date: description:	
10/17/17	Const. Documents

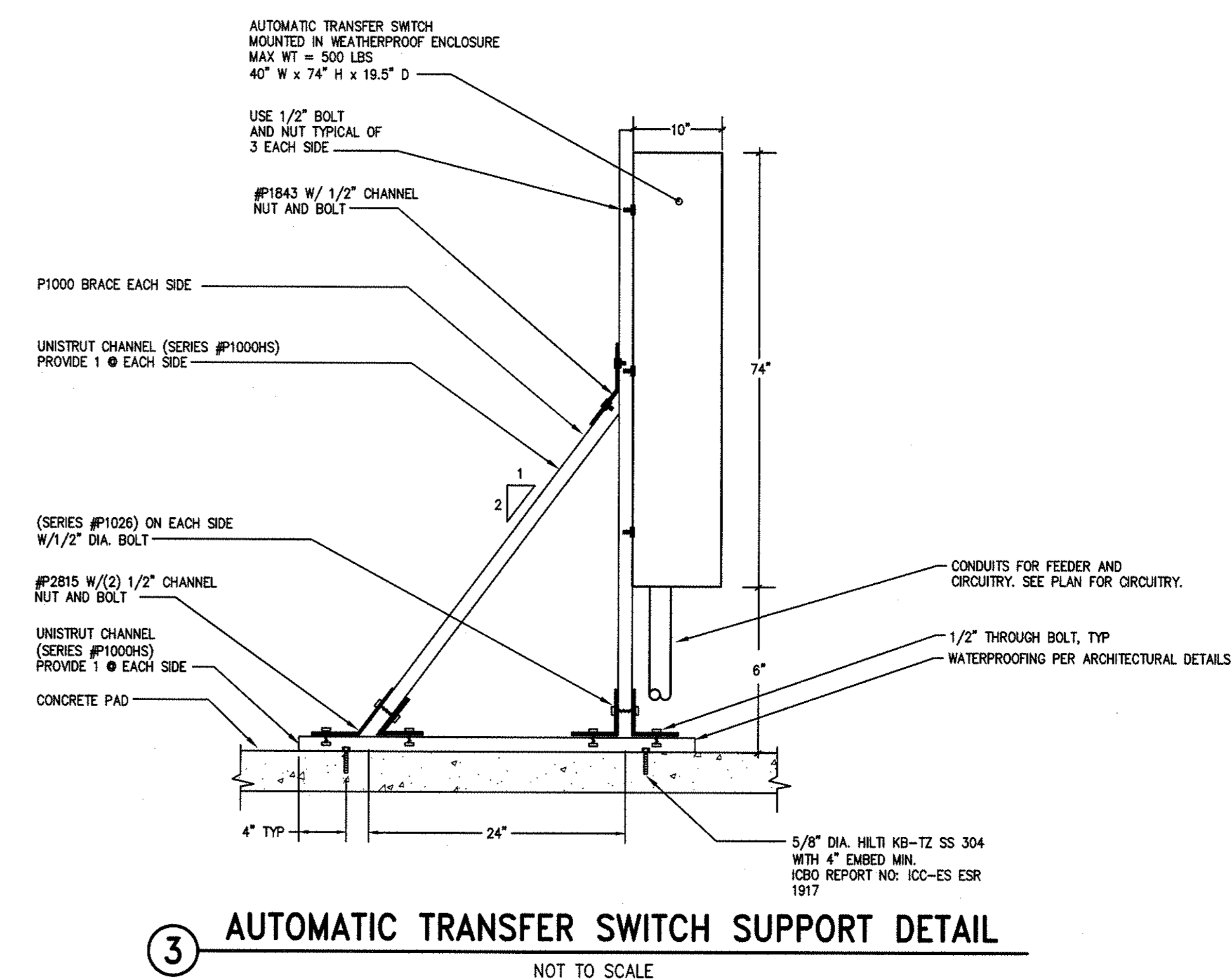
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drawing title:  
**ELECTRICAL ONE-LINE DIAGRAM**

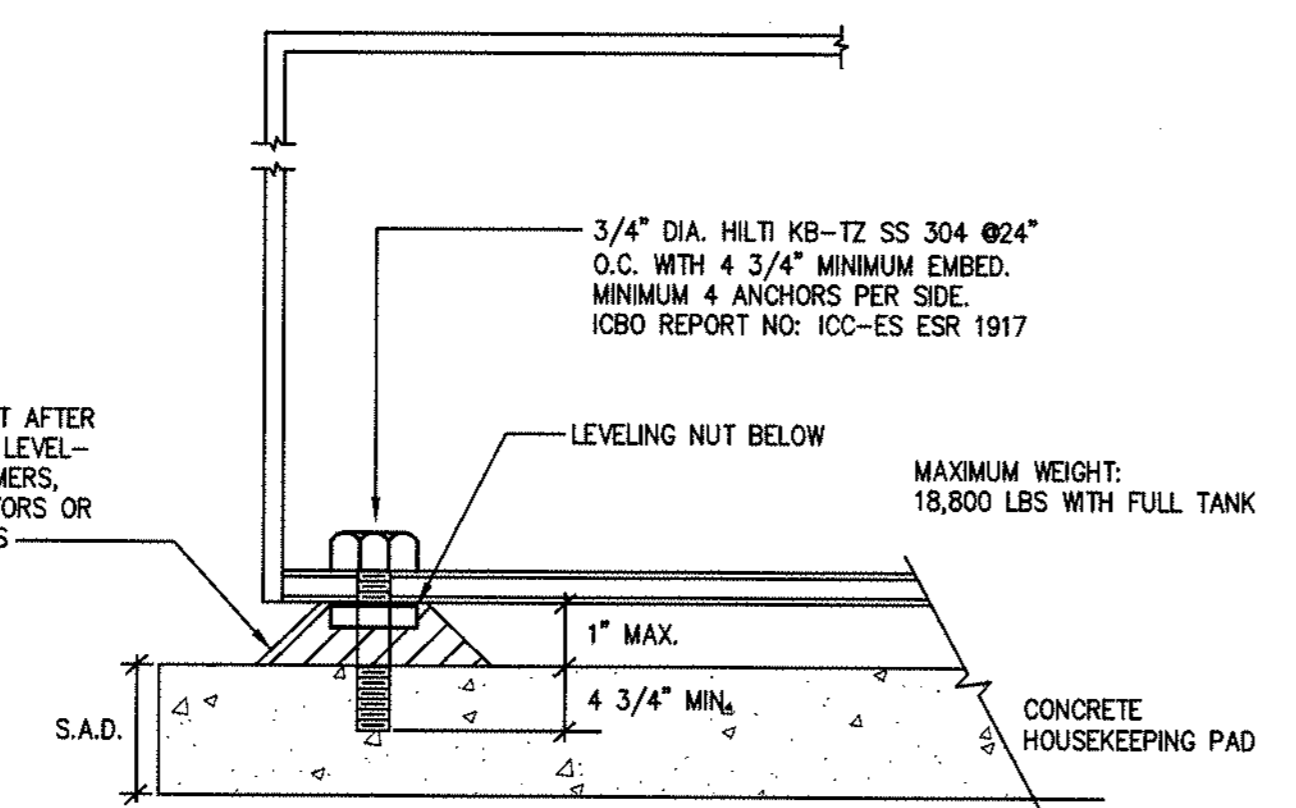
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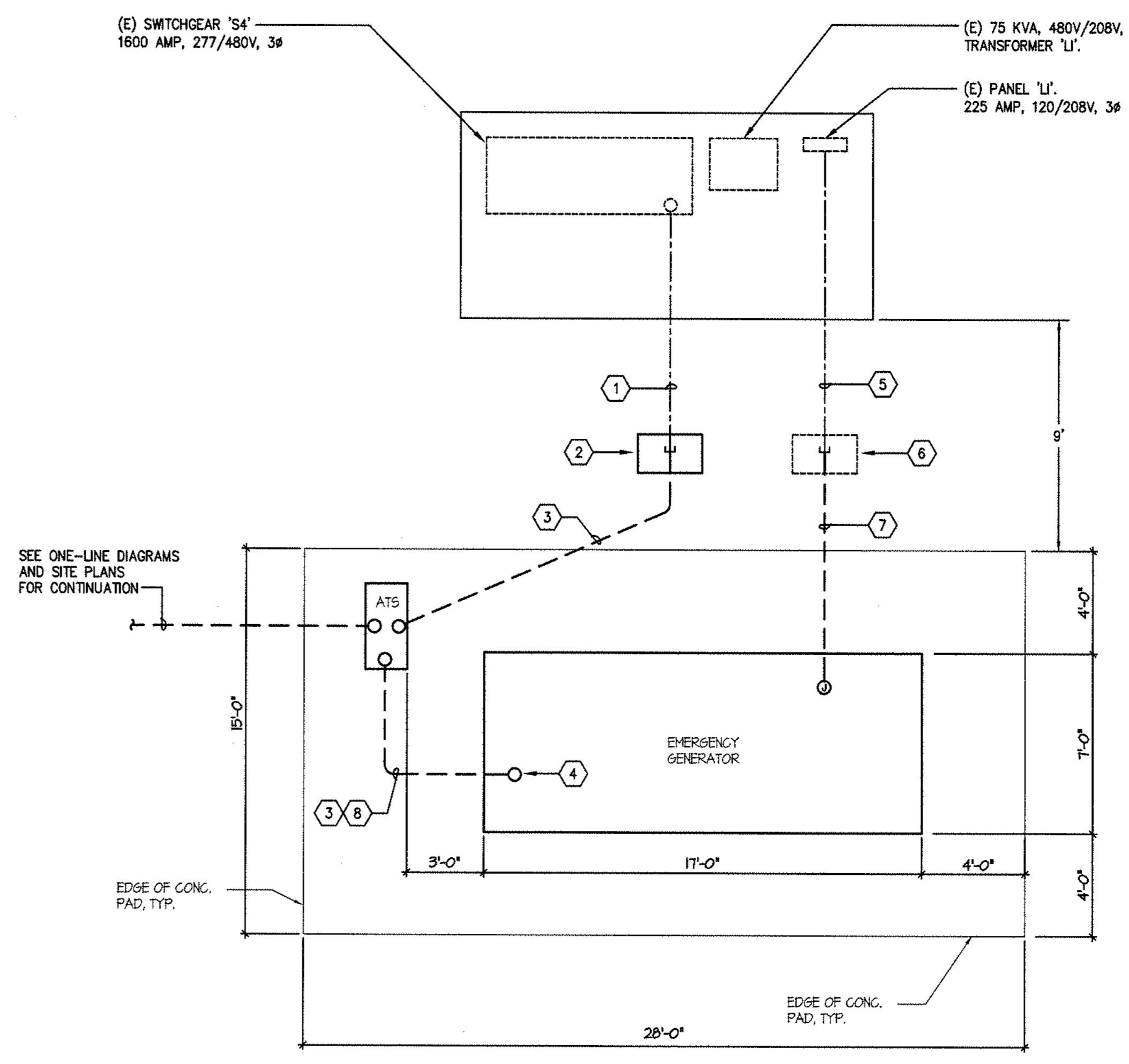
**1 NEW 500 KVA GENERATOR SET ELEVATIONS AND SECTIONS**  
NOT TO SCALE



**3 AUTOMATIC TRANSFER SWITCH SUPPORT DETAIL**  
NOT TO SCALE



**2 GENERATOR BOLT DOWN DETAIL**  
NOT TO SCALE

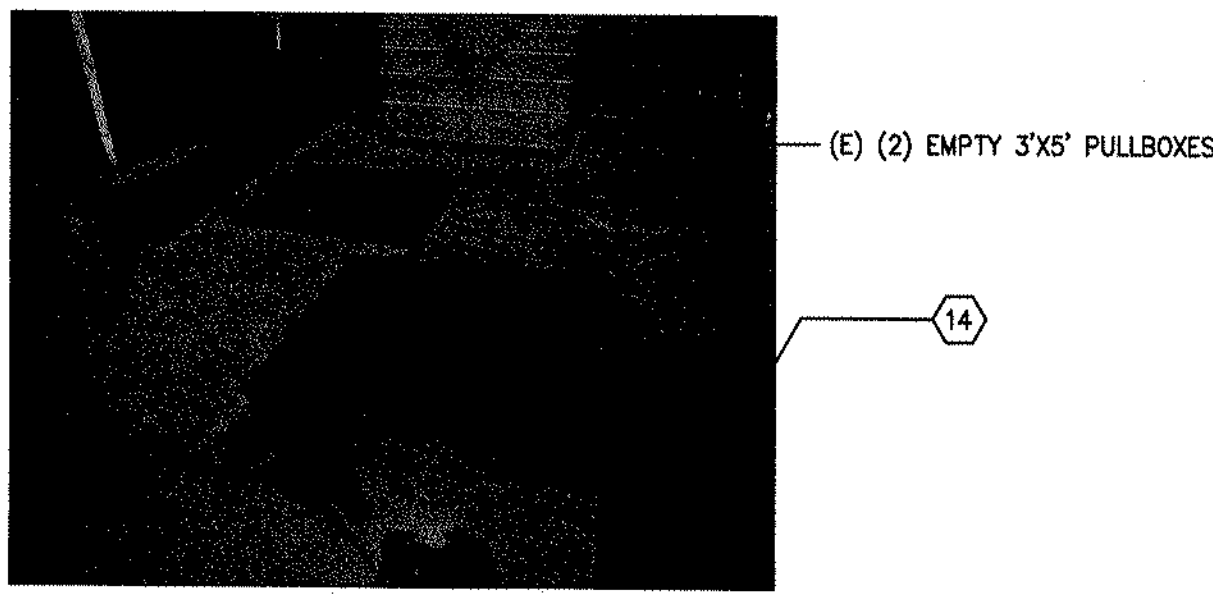


**4 NEW 500 KVA GENERATOR SET PLAN VIEW**  
NOT TO SCALE

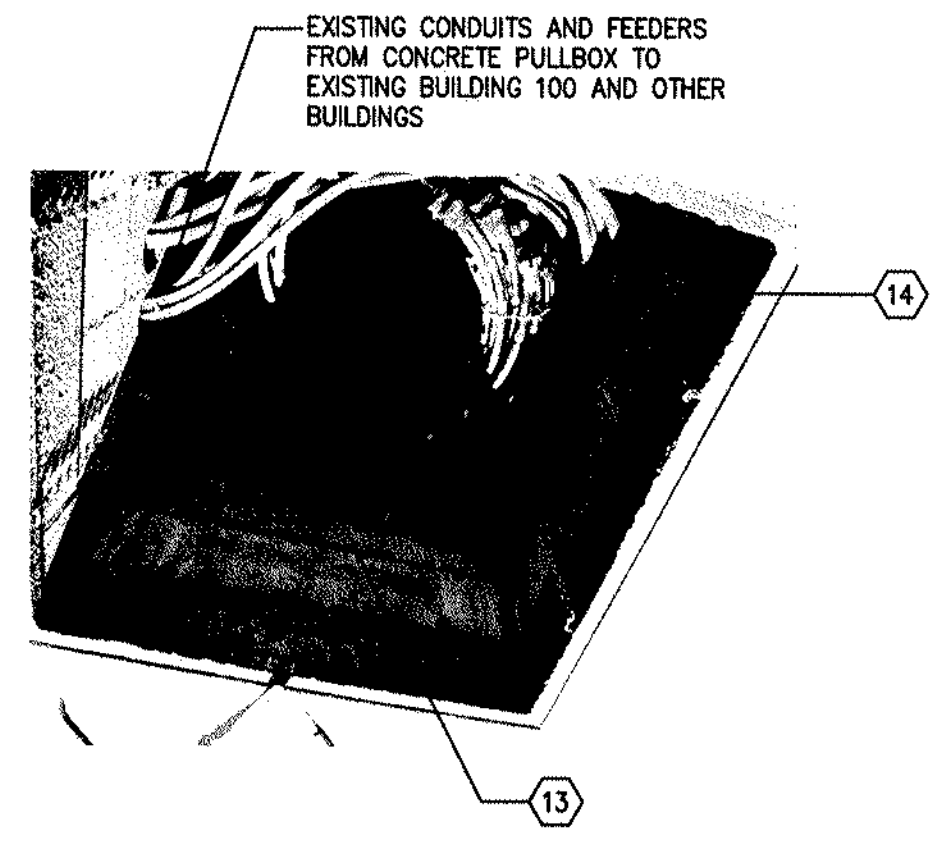
**DETAIL NOTES**

- EXISTING (2) 4" EMPTY CONDUITS. SEE ONE-LINE DIAGRAM
- PROVIDE NEW PULL BOX AT EXISTING (2) 4" EMPTY CONDUIT STUB OUT LOCATION.
- NEW (2) 4" UNDERGROUND CONDUITS. SEE ONE-LINE DIAGRAM.
- ELECTRICAL CONNECTION LOCATION FOR GENERATOR. SEE DETAIL 1, THIS SHEET.
- EXISTING (2) 2" CONDUITS STUBBED TO EXISTING PULLBOX FROM PANEL 'L' TO BE INSTALLED AND PROVIDED BY OTHERS. PULL IN NEW #81 AND 1#6 GROUND IN EXISTING (1) 2" CONDUIT FOR NEW GENERATOR LOAD CENTER PANEL.
- EXISTING PULLBOX.
- NEW (2) 2" UNDERGROUND CONDUITS FROM EXISTING PULLBOX TO NEW GENERATOR. PULL IN NEW #81 AND 1#6 GROUND IN NEW (1) 2" UNDERGROUND CONDUIT FOR NEW GENERATOR LOAD CENTER PANEL. SEE ONE-LINE DIAGRAM.
- 2" CONDUIT WITH CONTROL WIRING FROM GENERATOR TO ATS. SEE ONE-LINE DIAGRAM.

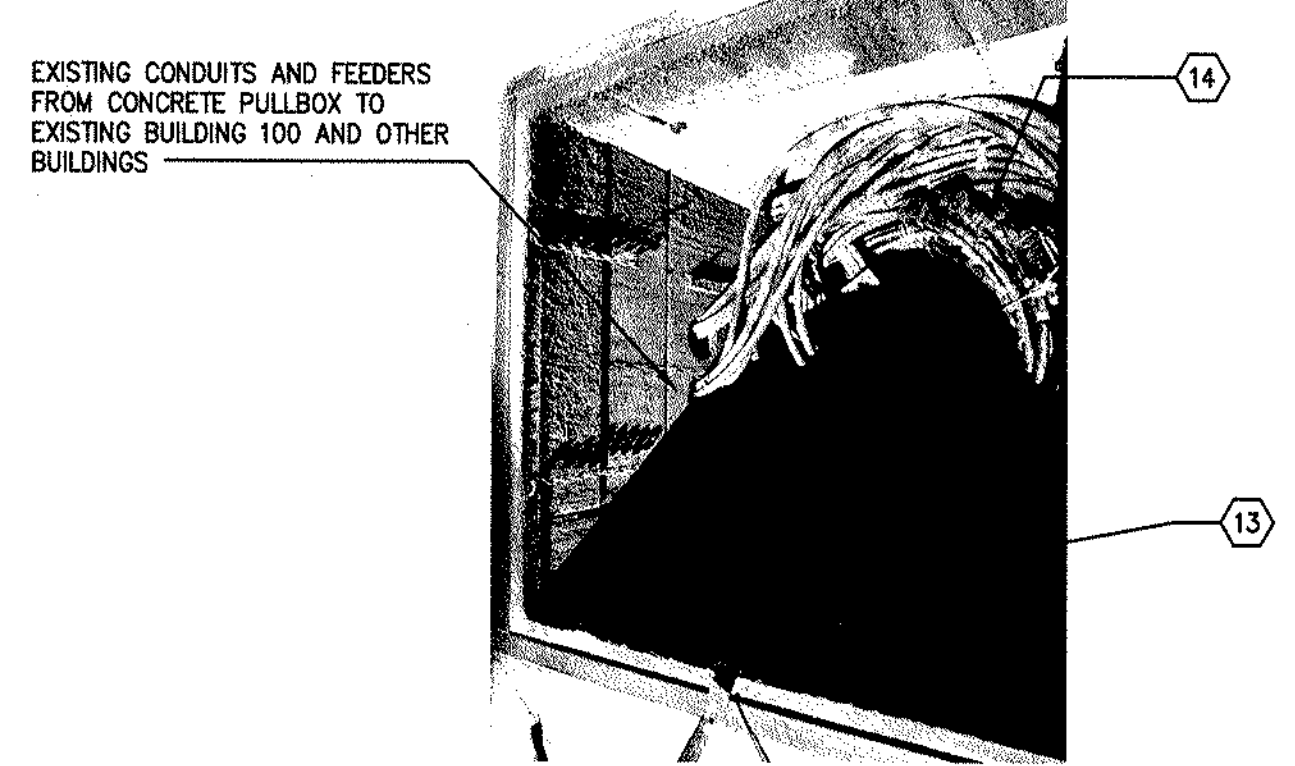




2 EXISTING PULLBOXES AT BUILDING 200  
SCALE: NONE



3 EXISTING PULLBOX AT BUILDING 200  
SCALE: NONE



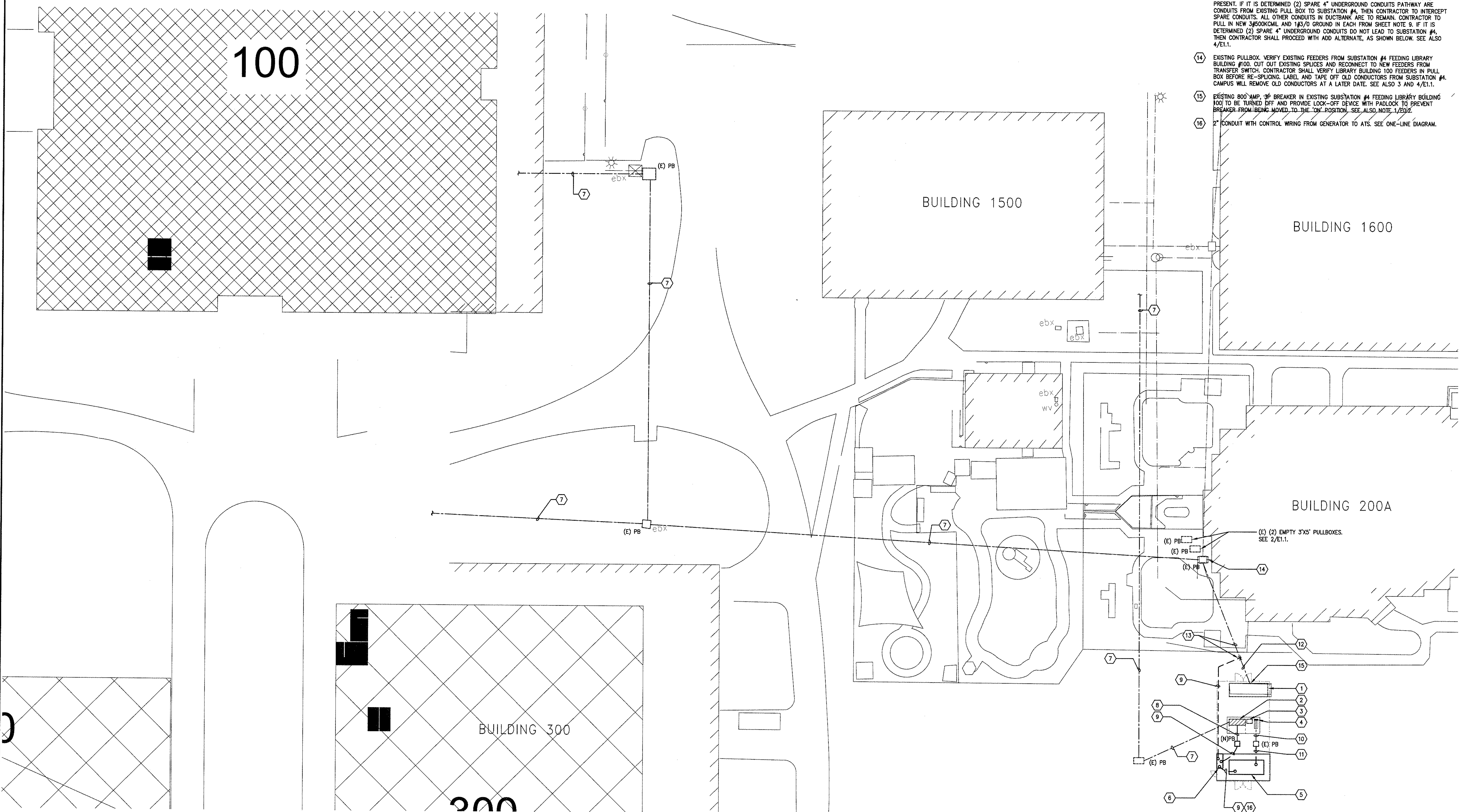
4 EXISTING PULLBOX AT BUILDING 200  
SCALE: NONE

**GENERAL NOTES**

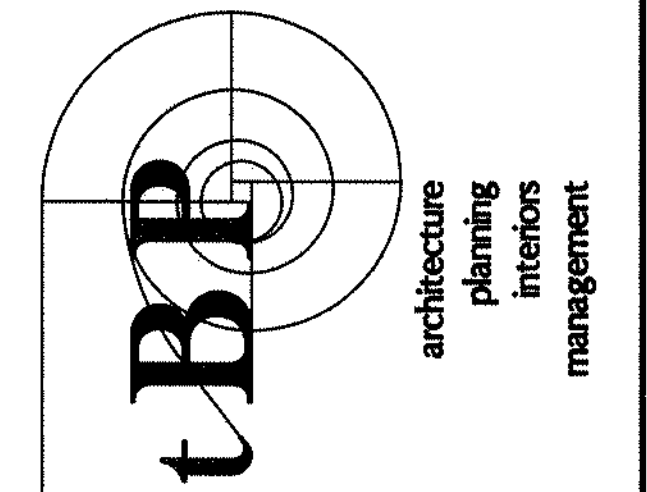
1. PRIOR TO START OF WORK, CONTRACTOR SHALL VERIFY EXISTING BUILDING 100 ROUTING OF CONDUITS AND FEEDERS FROM SUBSTATION #4 TO EXISTING BUILDING 100.

**SHEET NOTES**

- 1 EXISTING SUBSTATION #4, 4000A, 277/480V, 3A. SEE ONE-LINE DIAGRAM FOR MODIFICATIONS.
- 2 EXISTING SWITCHGEAR 'S4', 1800A, 277/480V, 3A. SEE ONE-LINE DIAGRAM.
- 3 EXISTING TRANSFORMER 'T1', 75KVA, 480/120/208V, 3A, 4W. SEE ONE-LINE DIAGRAM.
- 4 EXISTING PANEL 'L1', 225A, 120/208V, 3A, 4W. SEE ONE-LINE DIAGRAM.
- 5 NEW 500KVA GENERATOR ON CONCRETE PAD, 277/480V, 3A, 4W. SEE ONE-LINE DIAGRAM.
- 6 NEW ATS IN WEATHERPROOF ENCLOSURE MOUNTED ON UNISTRUT BRACING SUPPORT SYSTEM, 800A, 277/480V, 3A, 4W. SEE ONE-LINE DIAGRAM.
- 7 EXISTING UNDERGROUND CONDUITS AND FEEDERS.
- 8 EXISTING (2) 4" UNDERGROUND CONDUITS. PULL IN NEW 3/500KCMIL AND 1#5/0 GROUND IN EACH. SEE ONE-LINE DIAGRAM.
- 9 NEW (2) 4" UNDERGROUND CONDUITS WITH 3/500KCMIL AND 1#5/0 GROUND IN EACH IN EACH. SEE ONE-LINE DIAGRAM.
- 10 EXISTING (2) 2" SPARE CONDUITS STUBBED TO EXISTING PULLBOX FROM PANEL 'L1' TO BE INSTALLED AND PROVIDED BY OTHERS. PULL IN NEW 4#1 AND 1#6 GROUND IN EXISTING (1) 2" CONDUIT FOR NEW GENERATOR LOAD CENTER PANEL.
- 11 NEW (2) 2" UNDERGROUND CONDUITS FROM EXISTING PULLBOX TO NEW GENERATOR. PULL IN NEW 4#1 AND 1#6 GROUND IN NEW (1) 2" UNDERGROUND CONDUIT FOR NEW LOAD CENTER CONTROL PANEL. SEE 1/EQ.2.
- 12 EXISTING UNDERGROUND DUCTBANK WITH SPARE CONDUITS.
- 13 EXISTING (2) SPARE 4" UNDERGROUND CONDUITS FROM EXISTING SUBSTATION #4 TO EXISTING PULL BOX TO BE VERIFIED BY CONTRACTOR WITH DISTRICT REPRESENTATIVE PRESENT. IF IT IS DETERMINED (2) SPARE 4" UNDERGROUND CONDUITS PATHWAY ARE CONDUITS FROM EXISTING PULL BOX TO SUBSTATION #4, THEN CONTRACTOR TO INTERCEPT SPARE CONDUITS. ALL OTHER CONDUITS IN DUCTBANK ARE TO REMAIN. CONTRACTOR TO PULL IN NEW 3/500KCMIL AND 1#5/0 GROUND IN EACH FROM SHEET NOTE 9. IF IT IS DETERMINED (2) SPARE 4" UNDERGROUND CONDUITS DO NOT LEAD TO SUBSTATION #4, THEN CONTRACTOR SHALL PROCEED WITH ADD ALTERNATE, AS SHOWN BELOW. SEE ALSO 4/E1.1.
- 14 EXISTING PULLBOX. VERIFY EXISTING FEEDERS FROM SUBSTATION #4 FEEDING LIBRARY BUILDING #100. CUT OUT EXISTING SPLICES AND RECONNECT TO NEW FEEDERS FROM TRANSFER SWITCH. CONTRACTOR SHALL VERIFY LIBRARY BUILDING 100 FEEDERS IN PULL BOX BEFORE RE-SPLICING LABEL AND TAPE OFF OLD CONDUCTORS FROM SUBSTATION #4. CAMPUS WILL REMOVE OLD CONDUCTORS AT A LATER DATE. SEE ALSO 3 AND 4/E1.1.
- 15 EXISTING 800 AMP 3P BREAKER IN EXISTING SUBSTATION #4 FEEDING LIBRARY BUILDING 100 TO BE TURNED OFF AND PROVIDE LOCK-OFF DEVICE WITH PADLOCK TO PREVENT BREAKER FROM BEING MOVED TO THE 'ON' POSITION. SEE ALSO NOTE 1/EQ.2.
- 16 2" CONDUIT WITH CONTROL WIRING FROM GENERATOR TO ATS. SEE ONE-LINE DIAGRAM.



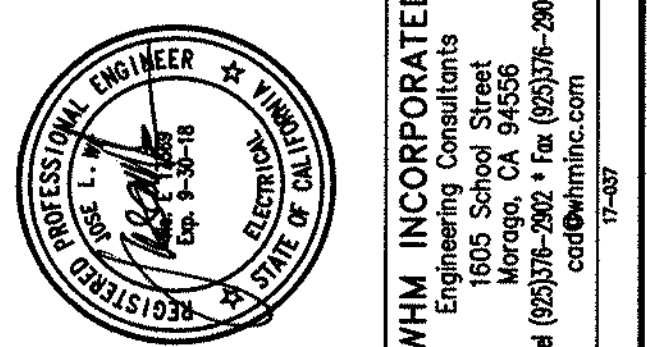
1 ELECTRICAL SITE PLAN - BASE SCOPE  
SCALE: 1" = 20'-0"



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consultant

agency

**BUILDING 100 GENERATOR**

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FAIRFIELD, CA 94565

owner

tBP project number :	20871.0
file name:	
drawn by: DM	checked by: SCH
date: October 17, 2017	
Rev. date:	description:
10/17/17	Const. Documents

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drawing title:  
**ELECTRICAL SITE PLAN - BASE SCOPE**

drawing no:  
**E1.1**  
drawing of

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(E) (2) EMPTY 3'X5' PULLBOXES  
(E) PULLBOX AT EXISTING BUILDING 200. SEE DETAIL 3, THIS SHEET



EXISTING CONDUITS AND FEEDERS FROM EXISTING CONCRETE PULLBOX TO EXISTING BUILDING 100 AND OTHER BUILDINGS

### GENERAL NOTES

1. PRIOR TO START OF WORK, CONTRACTOR SHALL VERIFY EXISTING BUILDING 100 ROUTING OF CONDUITS AND FEEDERS FROM SUBSTATION #4 TO EXISTING BUILDING 100.

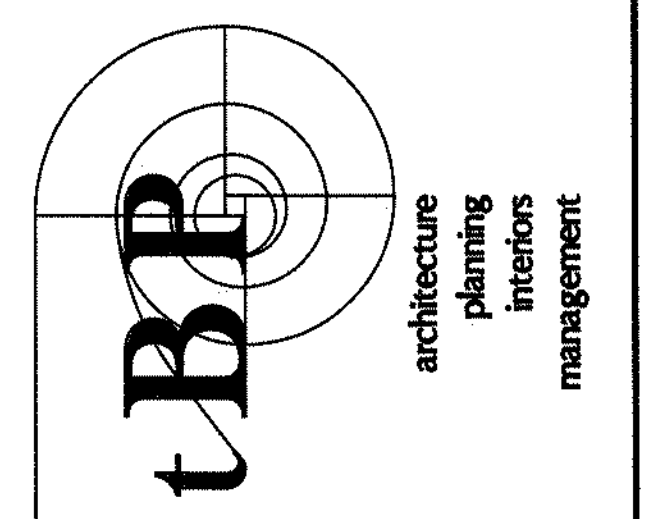
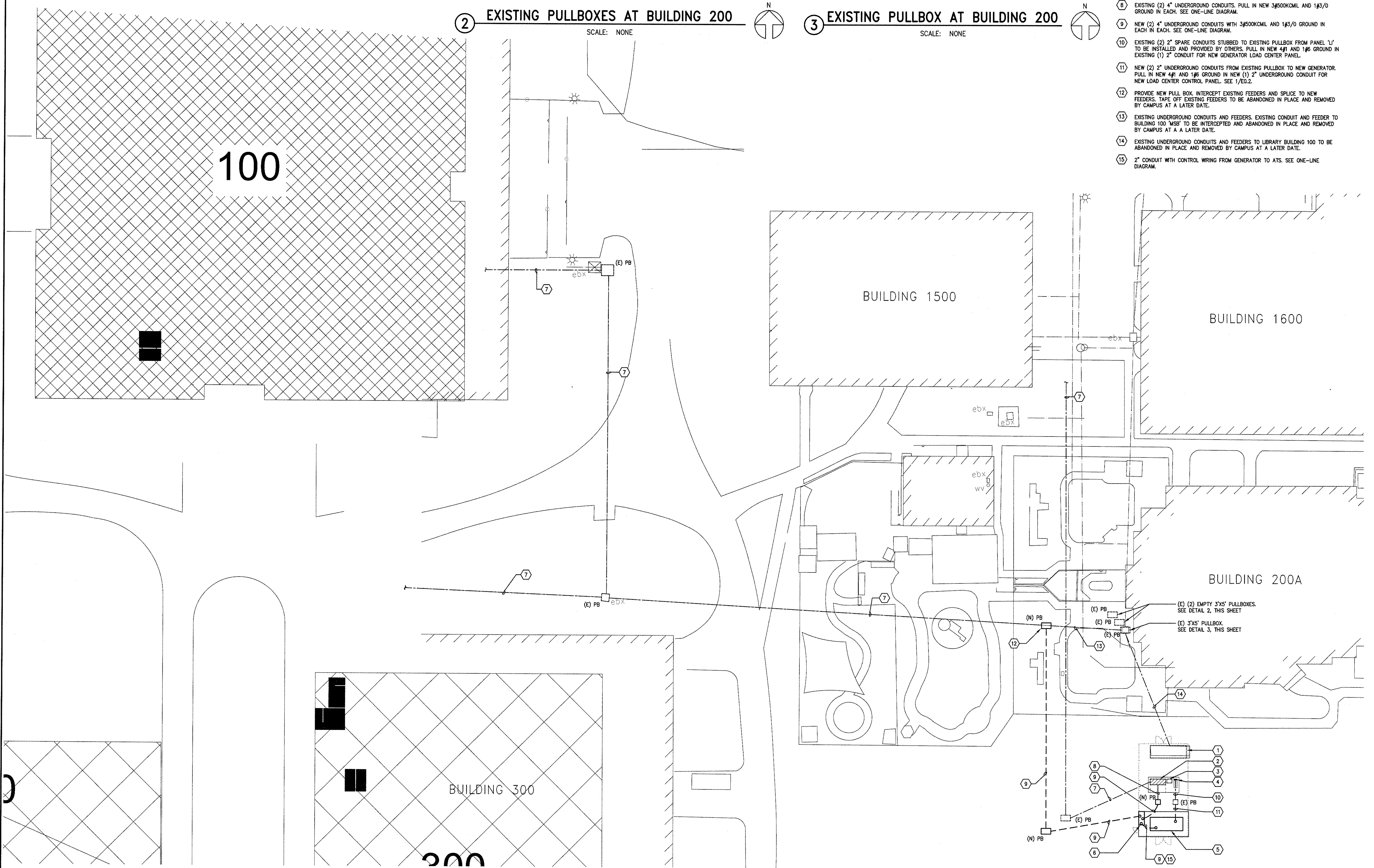
### SHEET NOTES

1. EXISTING SUBSTATION #4, 4000A, 277/480V, 3ø. SEE ONE-LINE DIAGRAM FOR MODIFICATIONS.
2. EXISTING SWITCHGEAR 'S4', 1600A, 277/480V, 3ø. SEE ONE-LINE DIAGRAM.
3. EXISTING TRANSFORMER 'L', 75KVA, 480/120/208V, 3ø, 4W. SEE ONE-LINE DIAGRAM.
4. EXISTING PANEL 'L1', 225A, 120/208V, 3ø, 4W. SEE ONE-LINE DIAGRAM.
5. NEW 500KVA GENERATOR ON CONCRETE PAD. 277/480V, 3ø, 4W. SEE ONE-LINE DIAGRAM.
6. NEW ATS IN WEATHERPROOF ENCLOSURE MOUNTED ON UNISTRUT BRACING SUPPORT SYSTEM. 800A, 277/480V, 3ø, 4W. SEE ONE-LINE DIAGRAM.
7. EXISTING UNDERGROUND CONDUITS AND FEEDERS.
8. EXISTING (2) 4" UNDERGROUND CONDUITS. PULL IN NEW 3/500KCMIL AND 1ø/3/0 GROUND IN EACH. SEE ONE-LINE DIAGRAM.
9. NEW (2) 4" UNDERGROUND CONDUITS WITH 3ø/500KCMIL AND 1ø/3/0 GROUND IN EACH IN EACH. SEE ONE-LINE DIAGRAM.
10. EXISTING (2) 2" SPARE CONDUITS STUBBED TO EXISTING PULLBOX FROM PANEL 'L1' TO BE INSTALLED AND PROVIDED BY OTHERS. PULL IN NEW 4ø/1 AND 1ø/6 GROUND IN EXISTING (1) 2" CONDUIT FOR NEW GENERATOR LOAD CENTER PANEL.
11. NEW (2) 2" UNDERGROUND CONDUITS FROM EXISTING PULLBOX TO NEW GENERATOR. PULL IN NEW 4ø/1 AND 1ø/6 GROUND IN NEW (1) 2" UNDERGROUND CONDUIT FOR NEW LOAD CENTER CONTROL PANEL. SEE 1/EO.2.
12. PROVIDE NEW PULL BOX. INTERCEPT EXISTING FEEDERS AND SPLICE TO NEW FEEDERS. TAPE OFF EXISTING FEEDERS TO BE ABANDONED IN PLACE AND REMOVED BY CAMPUS AT A LATER DATE.
13. EXISTING UNDERGROUND CONDUITS AND FEEDERS. EXISTING CONDUIT AND FEEDER TO BUILDING 100 'MSB' TO BE INTERCEPTED AND ABANDONED IN PLACE AND REMOVED BY CAMPUS AT A LATER DATE.
14. EXISTING UNDERGROUND CONDUITS AND FEEDERS TO LIBRARY BUILDING 100 TO BE ABANDONED IN PLACE AND REMOVED BY CAMPUS AT A LATER DATE.
15. 2" CONDUIT WITH CONTROL WIRING FROM GENERATOR TO ATS. SEE ONE-LINE DIAGRAM.

2 EXISTING PULLBOXES AT BUILDING 200  
SCALE: NONE

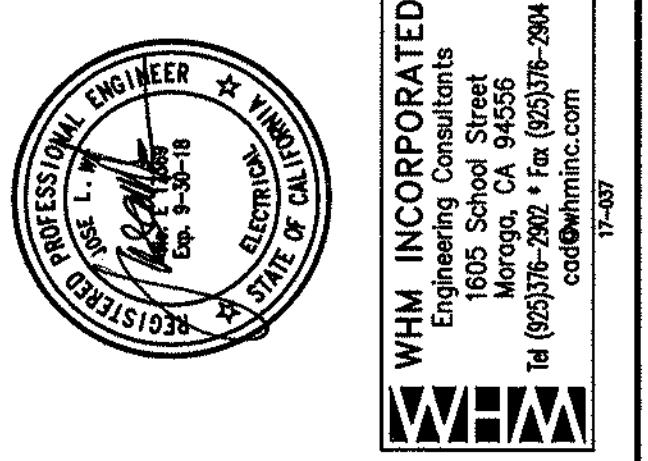
3 EXISTING PULLBOX AT BUILDING 200  
SCALE: NONE

1 ELECTRICAL SITE PLAN - ADD ALTERNATE  
SCALE: 1" = 20'-0"



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BUILDING 100 GENERATOR

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ELECTRICAL SITE PLAN -  
ADD ALTERNATE

drawing no:  
E1.1A  
drawing of