



CATALYST
CONSULTING GROUP, INC.

SECURITY PLANNING AND DESIGN
2789 NAPA VALLEY CORPORATE DRIVE
NAPA, CA 94558
Voice: 707 224-3020
Fax: 707-224-1377

CHABOT -LAS POSITAS COMMUNITY COLLEGE DISTRICT EMERGENCY COMMUNICATION SYSTEM PROJECT

GENERAL NOTES

1. THIS PROJECT CALLS FOR THE CONTRACTOR TO PROVIDE A TURN-KEY INSTALLATION, INCLUDING ALL ITEMS, WHETHER SPECIFIED OR NOT, CONFIGURATION AND PROGRAMMING, WHICH MAY BE REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL EMERGENCY COMMUNICATION SYSTEM FOR EACH CAMPUS.
2. ALL EQUIPMENT SHALL BE APPROVED FOR INSTALLATION BY THE OWNER.
3. EXACT LOCATION AND MOUNTING REQUIREMENTS FOR ALL DEVICES AND EQUIPMENT SHALL BE REVIEWED IN THE FIELD AND COORDINATED WITH THE OWNER PRIOR TO INSTALLATION.
4. ALL TRENCHING, PATCHING, PAVING, CONDUIT, JUNCTION BOXES, POWER RECEPTACLES, SWITCHES, AND ANY OTHER ANCILLARY COMPONENTS AND DEVICES, SHALL BE PROVIDED BY THE CONTRACTOR.
5. CONTRACTOR MUST PROVIDE PULL STRESS TESTING AND CERTIFICATION OF ALL EXISTING ECS PEDESTAL ANCHOR BOLTS PER THE SPECIFICATIONS AT THE LOCATIONS IDENTIFIED ON THE DRAWINGS.
6. CONTRACTOR MUST PROVIDE RODENT BARRIERS COMPRISED, OF 18 GAUGE STEEL W/ 3/8" SPACING AT ALL NEW AND RETROFIT TOWER LOCATIONS.
7. THE REFERENCE PHOTOGRAPHS INCLUDED ON SHEET SE3-1 ARE PROVIDED TO SHOW REPRESENTATIVE EXAMPLES OF EXISTING INSTALLATION AND REPRESENTATIVE EXAMPLES OF THE EXPECTED QUALITY OF INSTALLATION AT THE COMPLETION OF THE PROJECT.
8. THE DEVICE REFERENCE TABLES INCLUDED ON SHEETS SE1-C1 AND SE1-L1 INCLUDE PRIMARY DEVICES AND WORK ELEMENTS ASSOCIATED WITH EACH RETROFIT LOCATION. NEW TOWERS, WHICH ARE SPECIFIED TO REPLACE EXISTING PEDESTALS WILL REQUIRE FIELD INSTALLATION OF ALL INDIVIDUAL COMPONENTS SPECIFIED AND OTHERWISE INCLUDED FROM THE FACTORY FOR INSTALLATION. ADDITIONAL "CUSTOM" FIELD MODIFICATION WILL BE REQUIRED AND SHOWN AND SPECIFIED NAT EACH LOCATION.
9. ALL EXISTING WIRELESS CONNECTIONS SHALL BE REMOVED AND REPLACED WITH HARDWIRED COMMUNICATION INFRASTRUCTURE, WHERE SHOWN ON THE DRAWINGS AND AS DETAILED IN THE SPECIFICATIONS.
10. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A CALIFORNIA LICENCE (C-10) ELECTRICAL CONTRACTOR, USING MATERIALS AND METHODS TO MEET OR EXCEED CURRENT CALIFORNIA ELECTRICAL CODE.
11. PROVIDE UTILITY LOCATING SERVICES FOR EXISTING UTILITIES USING ELECTRONIC INDUCTION, CONDUCTIVE, MAGNETIC AND GROUND PENETRATING RADAR (GPR) METHODS. THE CONTRACTOR WILL BE HELD LIABLE FOR ANY COSTS ASSOCIATED WITH REPAIR OR DELAY AS A RESULT OF DAMAGE TO ANY UNMARKED UTILITY

SHEET INDEX

- SEO-1: TITLE SHEET, GENERAL NOTES AND INFORMATION
- SE1-C1: CHABOT SITE ECS PAN
- SE1-L1: LAS POSITAS SITE ECS PLAN
- SE2-1: DIMENSIONED DRAWINGS
- SE3-1: REFERENCE PHOTOGRAPHS
- SE4-1: COMMUNICATION TRENCH AND CONDUIT DETAILS

SANDIS UTILITY DRAWINGS – ISSUED FOR REFERENCE ONLY

CHABOT – EXCERPTS 2014 "CHABOT COLLEGE UTILITY MAP"

LAS POSITAS – EXCERPTS FROM 2012 "LAS POSITAS COLLEGE UTILITY MAP"

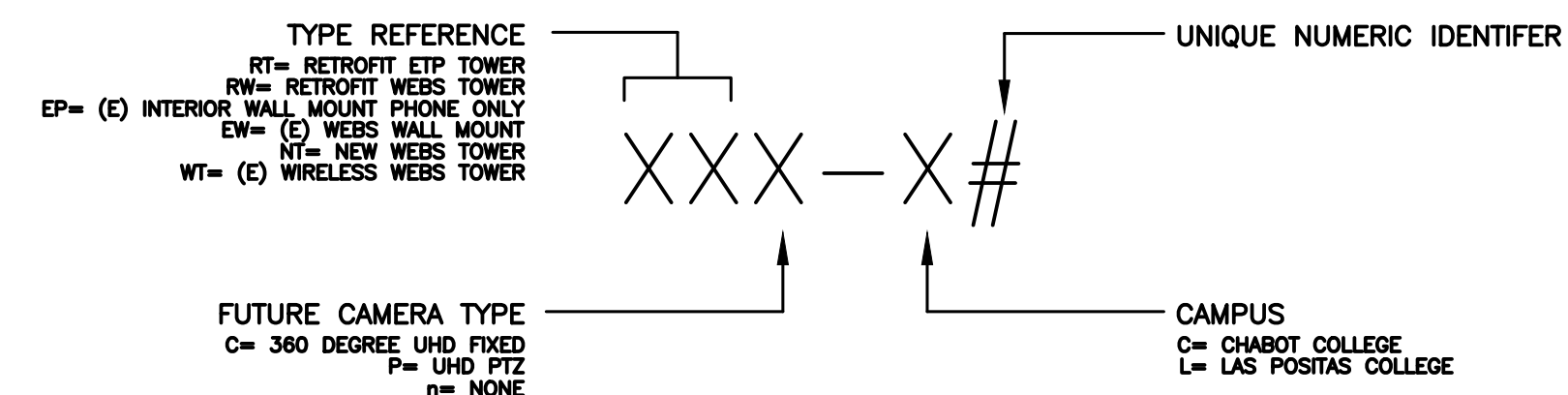
NOTE: THE SANDIS UTILITY DRAWINGS ARE PROVIDED TO ASSIST IN LOCATING EXISTING UTILITIES AND INFRASTRUCTURE. THEY ARE NOT INTENDED TO SHOW OR IDENTIFY ADDITIONAL WORK.

PROPRIETARY INFORMATION

NO PART OF THIS DOCUMENT MAY BE COPIED, REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT PRIOR WRITTEN CONSENT OF CATALYST CONSULTING GROUP, INC.

No.	Revision	By	Date
	CONSTRUCTION DOCUMENTS	-	6/10/2020

ASSET TAG DEFINITION



LEGEND

- SHEET NOTE
- EMERGENCY COMMUNICATION STATION
- POWERED FIBER CHASSIS

NOTE: DASHED SYMBOLS INDICATE EXISTING DEVICES APPLICABLE TO THE SCOPE OF THIS PROJECT.

ABBREVIATIONS

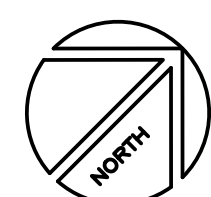
- A.F.F. – ABOVE FINISHED FLOOR
- C. – CONDUIT
- (E) – EXISTING
- ECS – EMERGENCY COMMUNICATION SYSTEM
- PFC – POWER FIBER CAHSSIS

Project:
**DISTRICT WIDE
EMERGENCY
COMMUNICATION SYSTEM
PROJECT**

Sheet Title:

TITLE SHEET
GENERAL NOTES
AND

INFORMATION: 19.749



Scale:
Date: 10/2/19
Sheet No: N.T.S.

SEO-1



CATALYST
CONSULTING GROUP, INC.

SECURITY PLANNING AND DESIGN
2789 NAPA VALLEY CORPORATE DRIVE
NAPA, CA 94558
Voice: 707 224-3020
Fax: 707-224-1377

SHEET NOTES:

- 1 SEE SHEET SE2-1 FOR DIMENSIONED DRAWINGS OF CUSTOM MANUFACTURED Z-BRACKETS AND ECS TOWER BASE PLATE.
- 2 SEE SHEET SE3-R1 FOR PHOTOGRAPHS REPRESENTATIVE OF EXISTING CONDITIONS AND EXPECTED QUALITY OF INSTALLATION DETAIL FOR NEW AND RETROFIT TOWER LOCATIONS AND FOR PFS INSTALLATION IN IDF EQUIPMENT RACKS.
- 3 CONNECT NEW PFS EXTENDERS TO EXISTING PFS CHASSIS AT THIS LOCATION. PROVIDE NEW 120VAC CIRCUIT TERMINATIONS AS REQUIRED.
- 4 RETAIN AND UTILIZE EXISTING PoE NETWORK SWITCH AND EXISTING INFRASTRUCTURE FOR THIS UNIT.
- 5 REPLACE EXISTING ANALOG PHONE CABLING BETWEEN THIS UNIT AND RWP-C8 WITH NEW CAT-6 CABLE PER SECTION 271513. TERMINATE NEW ECS PHONE TO EXISTING PoE SWITCH IN RWP-C8.
- 6 REPLACE EXISTING ANALOG PHONE CABLING BETWEEN THIS UNIT AND RWP-C17 WITH NEW CAT-6 CABLE PER SECTION 271513. TERMINATE NEW ECS PHONE TO EXISTING PoE SWITCH IN RWP-C17.
- 7 REPLACE EXISTING ANALOG PHONE CABLING BETWEEN THIS UNIT AND RWP-C24 WITH NEW CAT-6 CABLE PER SECTION 271513. TERMINATE NEW ECS PHONE TO EXISTING PoE SWITCH IN RWP-C24.

PROPRIETARY INFORMATION

NO PART OF THIS DOCUMENT MAY BE COPIED, REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT PRIOR WRITTEN CONSENT OF CATALYST CONSULTING GROUP, INC.

No.	Revision	By	Date
	CONSTRUCTION DOCUMENTS	-	6/10/2020

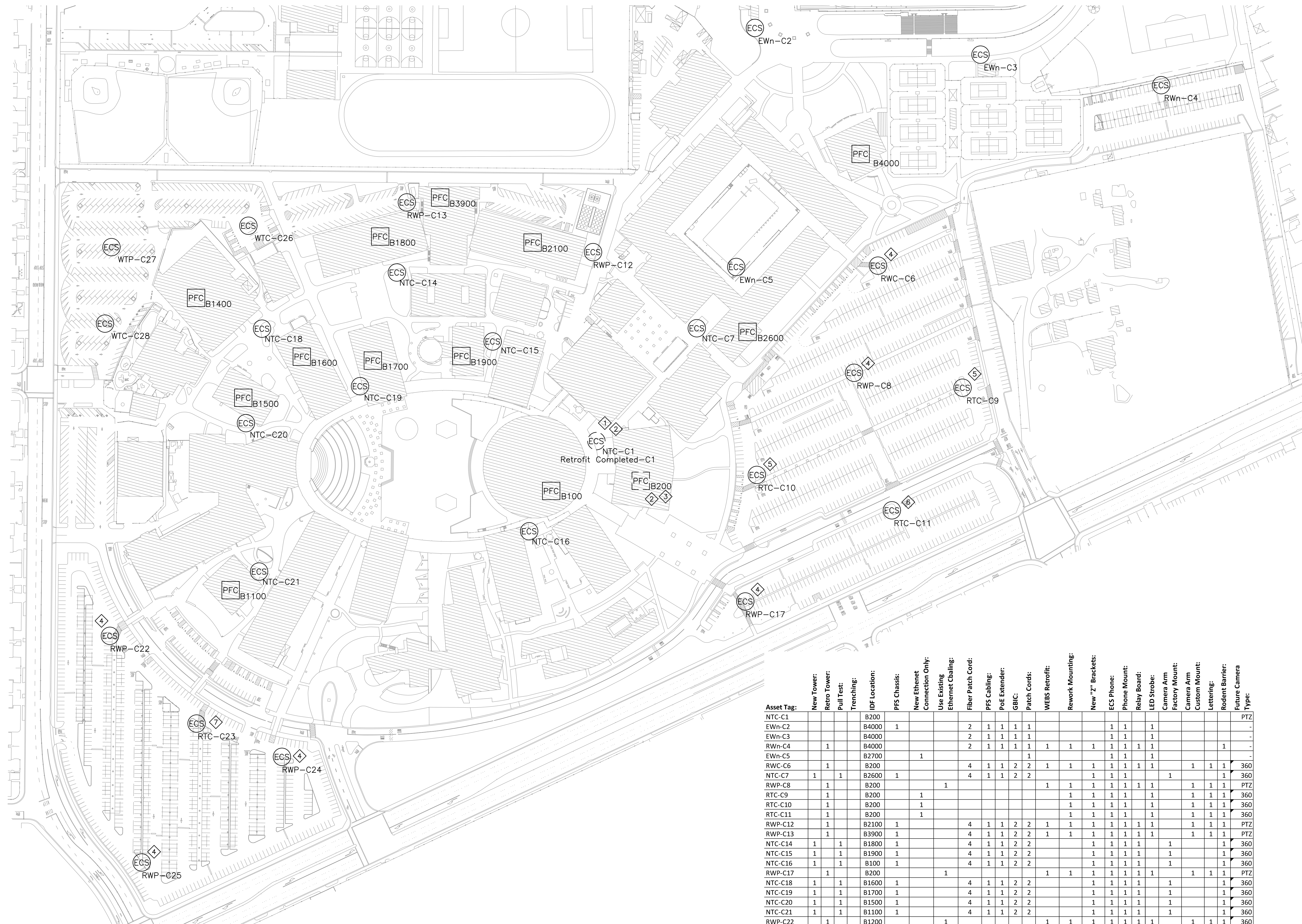
Project:
**DISTRICT WIDE
EMERGENCY
COMMUNICATION SYSTEM
PROJECT**

Sheet Title:
CHABOT SITE ECS PLAN

Job No: 19.749
Scale: N.T.S.
Date: 10/2/19

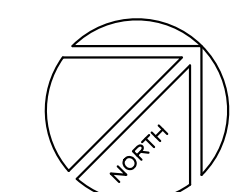
Sheet No:

SE1-C1



Asset Tag:	New Tower:	Retro Tower:	Pull Test:	Trenching:	IDF Location:	PFS Chassis:	New Ethernet Connection Only:	Use Existing Ethernet Chaining:	Fiber Patch Cord:	PFS Cabling:	PoE Extender:	GBIC:	Patch Cards:	WEBS Retrofit:	Rework Mounting:	New "Z" Brackets:	ECS Phone:	Phone Mount:	Relay Board:	LED Strobe:	Camera Arm Factory Mount:	Camera Arm Custom Mount:	Lettering:	Rodent Barrier:	Future Camera Type:	
NTC-C1					B200																				PTZ	
EWn-C2					B4000	1																				-
EWn-C3					B4000																					-
RWn-C4	1				B4000																					-
EWn-C5					B2700		1																			-
RWC-C6	1				B200					4	1	1	2	2	1	1	1	1	1	1			1	1	1	360
NTC-C7	1	1			B2600	1				4	1	1	2	2								1				360
RWP-C8	1				B200			1								1	1	1	1	1	1	1			PTZ	
RTC-C9	1				B200		1									1	1	1	1	1			1	1	1	360
RTC-C10	1				B200			1								1	1	1	1	1			1	1	1	360
RTC-C11	1				B200			1								1	1	1	1	1			1	1	1	360
RWP-C12	1				B2100	1				4	1	1	2	2	1	1	1	1	1	1			1	1	1	PTZ
RWP-C13	1				B3900	1				4	1	1	2	2	1	1	1	1	1	1			1	1	1	PTZ
NTC-C14	1	1			B1800	1				4	1	1	2	2							1					360
NTC-C15	1	1			B1900	1				4	1	1	2	2							1					360
NTC-C16	1	1			B100	1				4	1	1	2	2							1					360
RWP-C17	1	1			B200			1							1	1	1	1	1	1			1	1	1	PTZ
NTC-C18	1	1			B1600	1				4	1	1	2	2							1					360
NTC-C19	1	1			B1700	1				4	1	1	2	2							1					360
NTC-C20	1	1			B1500	1				4	1	1	2	2							1					360
NTC-C21	1	1			B1100	1				4	1	1	2	2							1					360
RWP-C22	1				B1200			1							1	1	1	1	1	1			1	1	1	360
RTC-C23	1				B1200			1							1	1	1	1	1	1			1	1	1	360
RWP-C24	1				B1200			1							1	1	1	1	1	1			1	1	1	PTZ
RWP-C25	1				B1200			1							1	1	1	1	1	1			1	1	1	PTZ
WTC-C26	1	1			B1400	1				4	1	1	2	2	1	1	1	1	1	1			1	1	1	360
WTC-C27	1	1			B1400	1				4	1	1	2	2	1	1	1	1	1	1			1	1	1	360
WTC-C28	1	1			B1400	1				4	1	1	2	2	1	1	1	1	1	1			1	1	1	360
Totals:	8	16	8	3		12	5	5	62	17	17	31	32	12	15	24	27	27	19	19	8	15	15	24		

1 CHABOT SITE ECS PLAN
SCALE N.T.S.





CATALYST
CONSULTING GROUP, INC.

SECURITY PLANNING AND DESIGN
2789 NAPA VALLEY CORPORATE DRIVE
NAPA, CA 94558
Voice: 707 224-3020
Fax: 707-224-1377

SHEET NOTES:

- 1 SEE SHEET SE2-1 FOR DIMENSIONED DRAWINGS OF CUSTOM MANUFACTURED Z-BRACKETS AND ECS TOWER BASE PLATE.
- 2 SEE SHEET SE3-R1 FOR PHOTOGRAPHS REPRESENTATIVE OF EXISTING CONDITIONS AND EXPECTED QUALITY OF INSTALLATION DETAIL FOR NEW AND RETROFIT TOWER LOCATIONS AND FOR PFS INSTALLATION IN IDF EQUIPMENT RACKS.
- 3 CONNECT NEW PFS EXTENDERS TO EXISTING PFS CHASSIS AT THIS LOCATION. PROVIDE NEW 120VAC CIRCUIT TERMINATIONS AS REQUIRED.
- 4 THIS UNIT REQUIRES DEMOLITION OF THE EXISTING PEDESTAL AND CONNECTION ONLY.
- 5 WALL MOUNTED EMERGENCY PHONE LOCATED ON THE SECOND FLOOR ELEVATOR. USE EXISTING ETHERNET CONNECTION AND COORDINATE CONNECTION TO LPC NETWORK WITHIN B1000 IDF WITH ITS REPRESENTATIVE.
- 6 UTILIZE THE ATYPICAL ECS CUSTOM MOUNTING PLATE UNIT AT THIS LOCATION TO PROVIDE 90 DEGREE ROTATION OF DEVICE. INSTALL NEW TOWER ROTATED 90 DEGREES FROM THE EXISTING PEDESTAL SO THAT EMERGENCY PHONE FACES THE SIDEWALK.

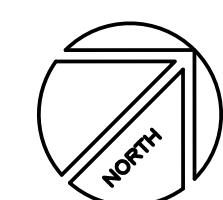
PROPRIETARY INFORMATION

NO PART OF THIS DOCUMENT MAY BE COPIED, REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT PRIOR WRITTEN CONSENT OF CATALYST CONSULTING GROUP, INC.

No.	Revision	By	Date
	CONSTRUCTION DOCUMENTS	-	6/10/2020

Project:
**DISTRICT WIDE
EMERGENCY
COMMUNICATION SYSTEM
PROJECT**

Sheet Title:
LAS POSITAS SITE ECS PLAN



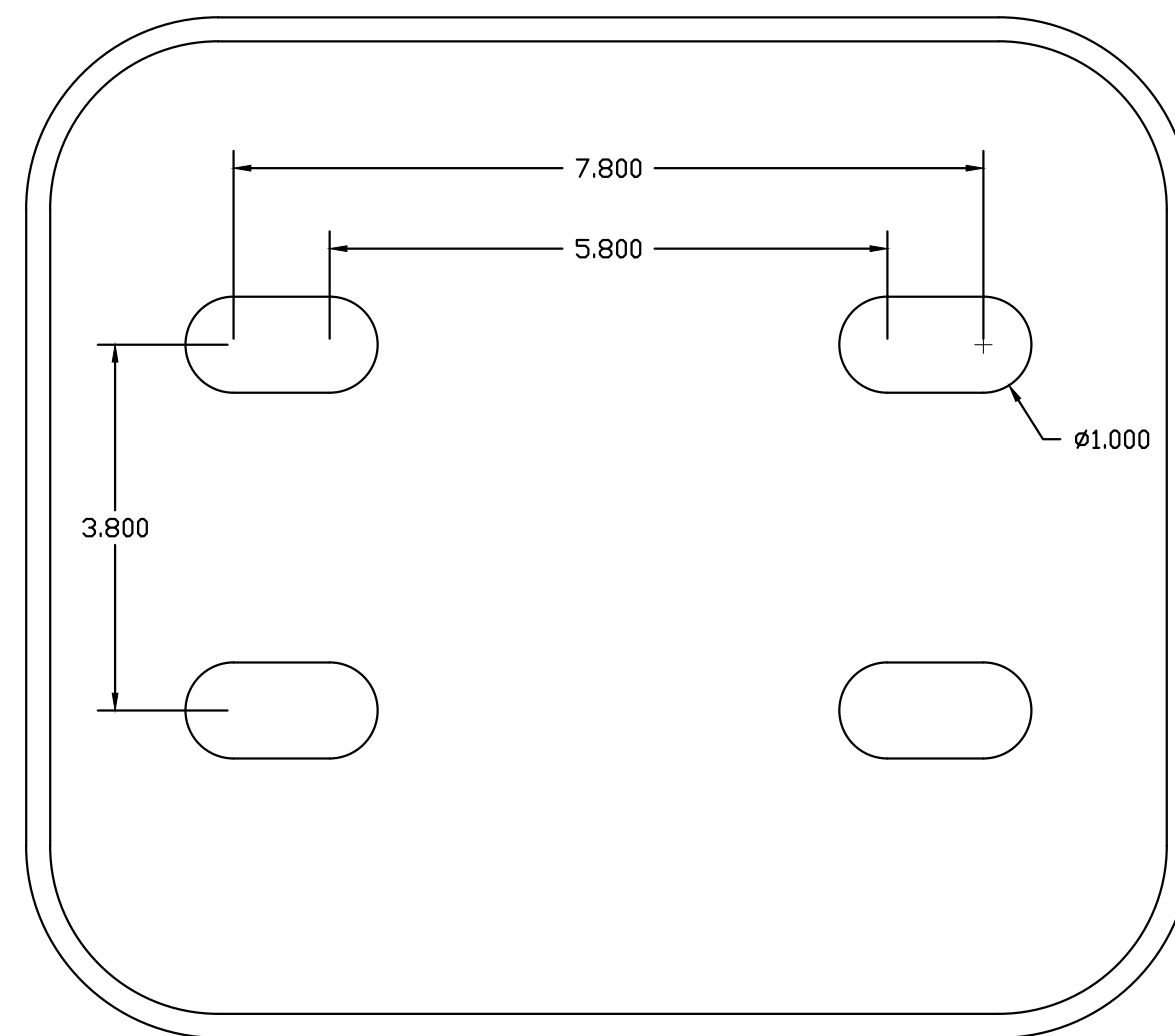
Job No: 19.749
Scale: N.T.S.
Date: 10/2/19
Sheet No:

SE1-L1

Asset Tag:	New Tower:	Retro Tower:	Pull Test:	Trenching:	IDF Location:	PFS Chassis:	New Ethernet Connection Only:	Use Existing Ethernet Challenging:	Fiber Patch Cord:	Poe Cabling:	Poe Extender:	GBIC:	Patch Cords:	WBFS Retrofit:	Rework Mounting:	New 7" Brackets:	ECS Phone:	Phone Mount:	Relay Board:	LED Strobe:	Camera Arm Factory Mount:	Camera Arm Custom Mount:	Lettering:	Rodent Barrier:	Future Camera Type:	
RWC-L1					B3200																				360	
RWP-L2	1				B3200				4	1	1	2	2	1	1	1	1	1	1	1			1	4	1	PTZ
RWC-L3	1				B2500	1			4	1	1	2	2	1	1	1	1	1	1	1			1	1	1	360
RTP-L4	1				B2500				4	1	1	2	2		1	1	1	1	1	1			1	1	1	PTZ
RWn-L5	1				B2500				2	1	1	1	1	1	1	1	1	1	1	1						-
RTC-L6	1				B2500				4	1	1	2	2		1	1	1	1	1	1			1	1	1	360
RTn-L7	1				B2500				2	1	1	1	1		1	1	1	1	1	1						-
RWn-L8	1				B2500				2	1	1	1	1	1	1	1	1	1	1	1						-
RTC-L9	1			1	B2500				4	1	1	2	2		1	1	1	1	1	1			1	1	1	360
RWP-L10	1				B1600	1			4	1	1	2	2	1	1	1	1	1	1	1	1	1			1	PTZ
NTC-L11	1	1			B2300	1	2						2				1	1	1	1			1		1	360
EPh-L12					B1000			1										1	1							-
RWC-L13	1				B1600				4	1	1	2	2	1	1	1	1	1	1	1	1	1			1	360
RWP-L14	1				B2400	1			4	1	1	2	2	1	1	1	1	1	1	1	1	1		4	1	PTZ
RTC-L15	1				B2400				4	1	1	2	2		1	1	1	1	1	1			1	1	1	360
RWP-L16	1				B2300				4	1	1	2	2	1	1	1	1	1	1	1			1	1	1	PTZ
RTC-L17	1				B2400				4	1	1	2	2		1	1	1	1	1	1			1	1	1	360
RTC-L18	1				B1850	1			4	1	1	2	2		1	1	1	1	1	1	1	1			1	360
NTC-L19	1	1			B700	1	2						2				1	1	1	1			1		1	360
RWC-L20	1				B1000	1			4	1	1	2	2	1	1	1	1	1	1	1	1	1			1	360
RTC-L21	1				B1900	1			4	1	1	2	2		1	1	1	1	1	1			1	1	1	360
RTC-L22	1				B1000				4	1	1	2	2		1	1	1	1	1	1			1	1	1	360
RWP-L23	1				B4000	1			4	1	1	2	2	1	1	1	1	1	1	1			1	4	1	PTZ
RWP-L24	1				B4000				4	1	1	2	2	1	1	1	1	1	1	1			1	4	1	360
RTP-L25	1				B1000				4	1	1	2	2		1	1	1	1	1	1			1	1	1	PTZ
RTn-L26	1				B4000				2	1	1	1	1		1	1	1	1	1	1						-
Demo Only					B2200																					-

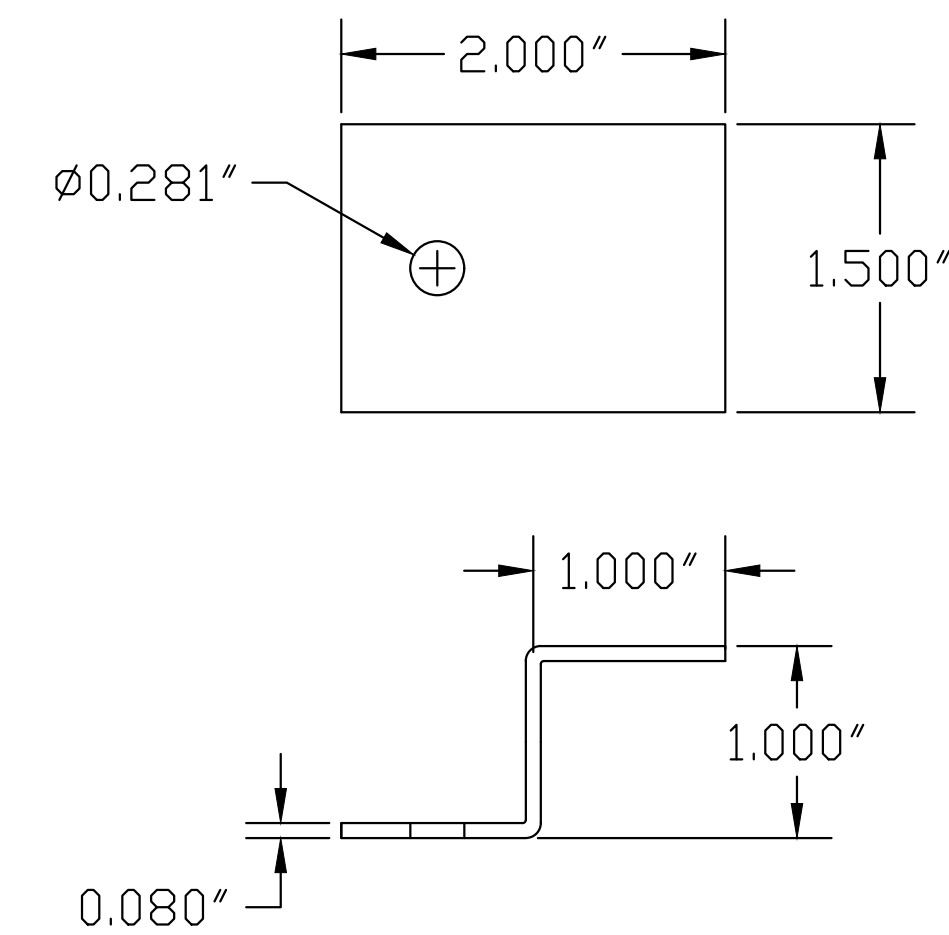
Totals: 2 22 2 1 9 4 1 80 22 22 40 44 11 22 13 25 25 13 22 7 13 29 24





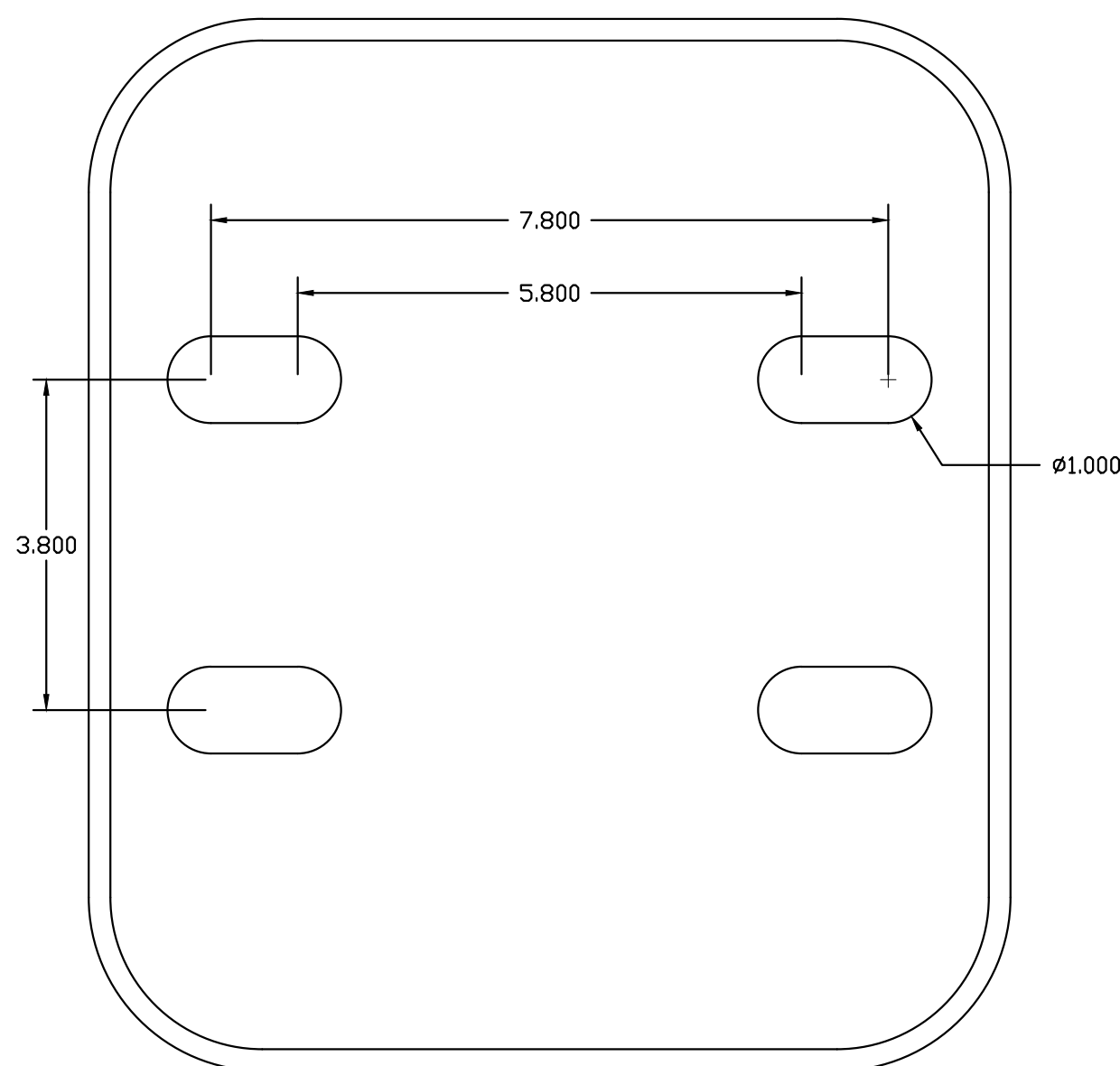
1 TYPICAL ECS TOWER CUSTOM MOUNTING PLATE
SCALE: 1/4"

ECS TOWER CUSTOM MOUNTING PLATE SHALL BE MANUFACTURED AND INSTALLED AT THE FACTORY WITH THE MOUNTING HOLES SIZE AND LOCATED AS SHOWN. SEE SPECIFICATIONS FOR ADDITIONAL DETAILS.



2 ECS TOWER CUSTOM "Z" BRACKET
SCALE: 1/4"

ECS TOWER CUSTOM "Z" BRACKETS CAN MANUFACTURED IN THE FIELD UTILIZING SPARE MATERIAL FROM THE PROVIDED BACK PLATES OR IN THE FACTORY FROM 5/64" THICK 3003 ALUMINUM WITH PRE-DRILLED MOUNTING HOLE. SECONDARY MOUNTING HOLE TO BE DRILLED AND TAPPED IN THE FIELD.



3 ATYPICAL ECS TOWER CUSTOM MOUNTING PLATE
SCALE: 1/4"

ECS TOWER CUSTOM MOUNTING PLATE FOR UNIT NTC-L19 SHALL BE MANUFACTURED AND INSTALLED AT THE FACTORY WITH THE MOUNTING HOLES SIZE AND LOCATED AS SHOWN TO PROVIDE 90 DEGREE ROTATION WHEN NEW TOWER IS INSTALLED OVER EXISTING PEDESTAL BOLTS. SEE SPECIFICATIONS FOR ADDITIONAL DETAILS.



CATALYST
CONSULTING GROUP, INC.

SECURITY PLANNING AND DESIGN
2789 NAPA VALLEY CORPORATE DRIVE
NAPA, CA 94558
Voice: 707 224-3020
Fax: 707-224-1377

SHEET NOTES:

PROPRIETARY INFORMATION

NO PART OF THIS DOCUMENT MAY BE COPIED, REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT PRIOR WRITTEN CONSENT OF CATALYST CONSULTING GROUP, INC.

No.	Revision	By	Date
	CONSTRUCTION DOCUMENTS	-	6/10/2020

Project:
**DISTRICT WIDE
EMERGENCY
COMMUNICATION SYSTEM
PROJECT**

Sheet Title:
DIMENSIONED DRAWINGS

Job No: 19.749
Scale: S.A.S
Date: 10/2/19
Sheet No:

SE2-1



CATALYST
CONSULTING GROUP, INC.

SECURITY PLANNING AND DESIGN
2789 NAPA VALLEY CORPORATE DRIVE
NAPA, CA 94558
Voice: 707 224-3020
Fax: 707-224-1377

SHEET NOTES:

PROPRIETARY INFORMATION

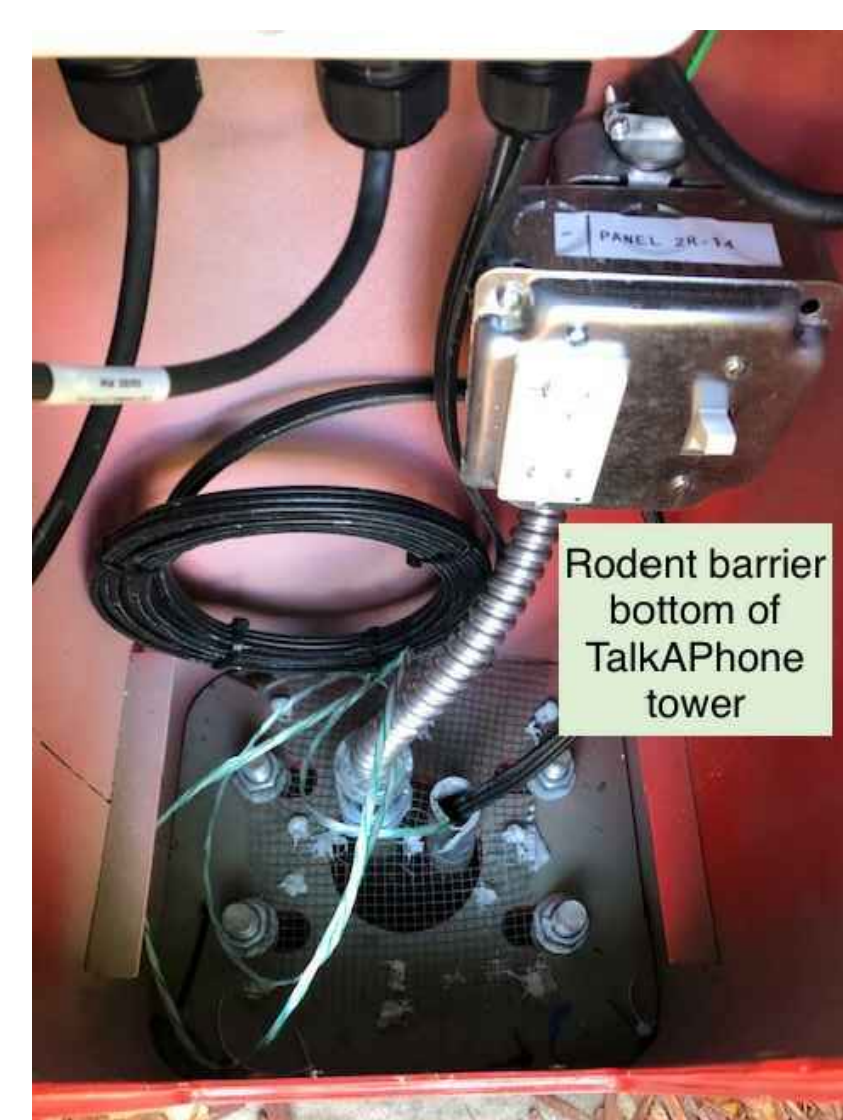
NO PART OF THIS DOCUMENT MAY BE COPIED, REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT PRIOR WRITTEN CONSENT OF CATALYST CONSULTING GROUP, INC.

No.	Revision	By	Date
	CONSTRUCTION DOCUMENTS	-	6/10/2020

Project:
**DISTRICT WIDE
EMERGENCY
COMMUNICATION SYSTEM
PROJECT**

Sheet Title:
REFERENCE PHOTOGRAPHS

Job No: 19.749
Scale: 1:1
Date: 10/2/19
Sheet No:
SE3-1



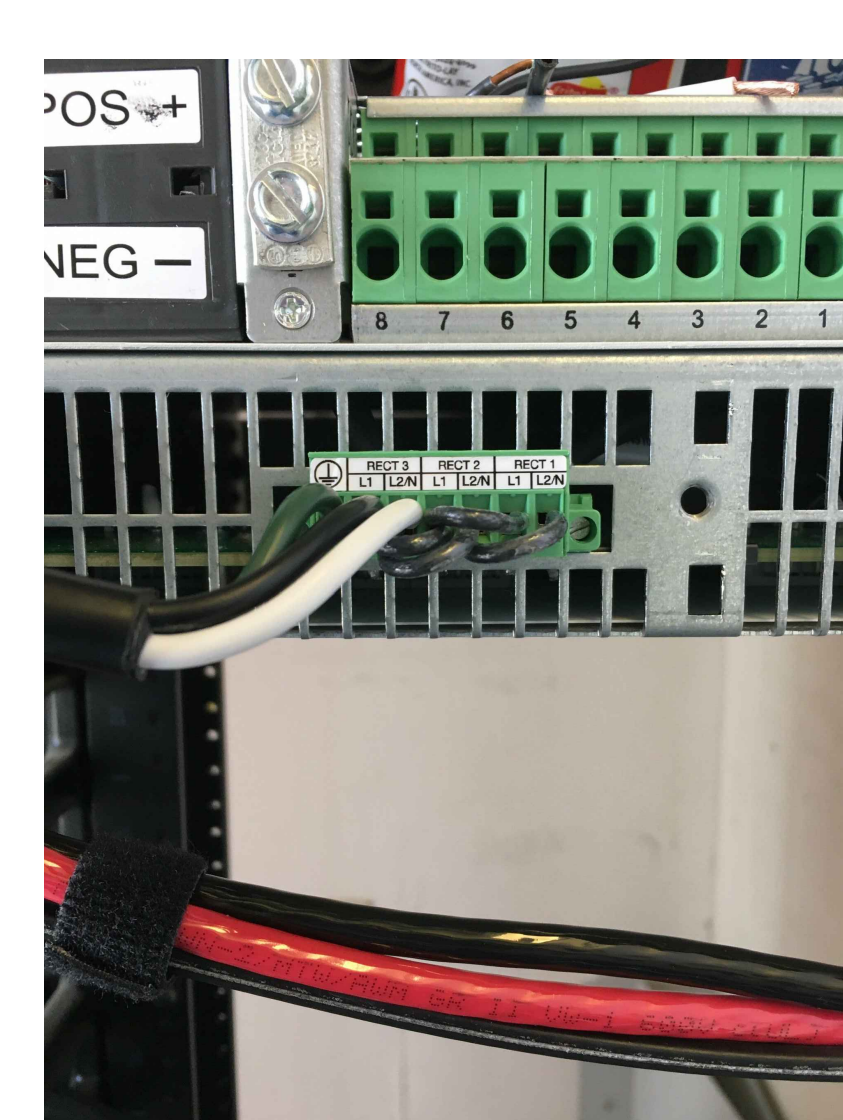
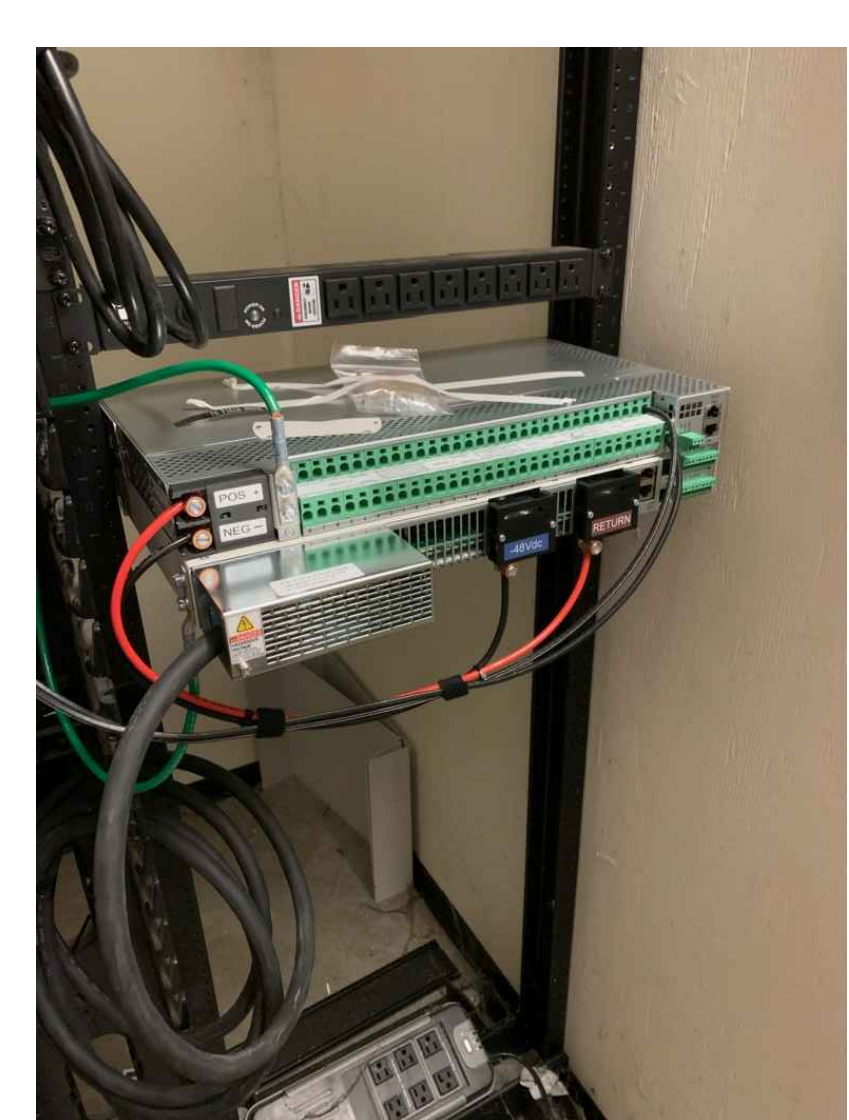
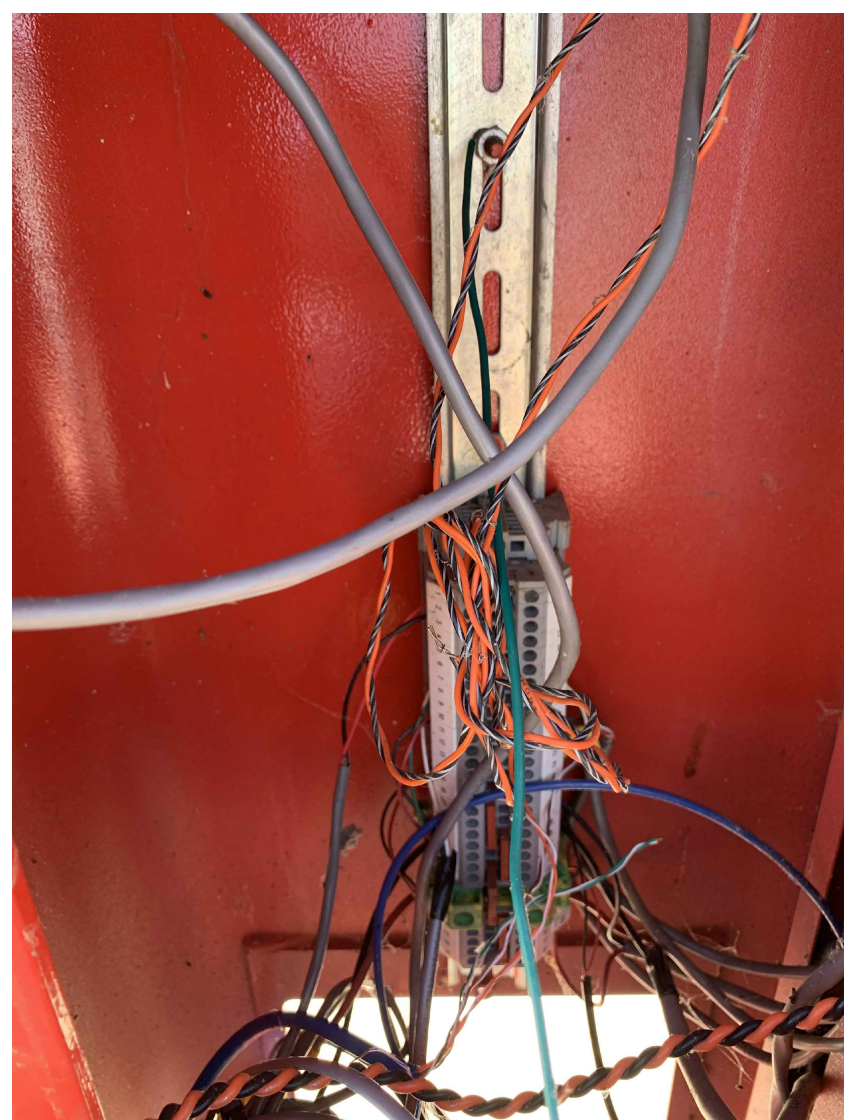
1 EXISTING WEBS ECS
TYPICAL CONDITION OF EXISTING TOWERS. ALL EXISTING DEVICES AND WIRING ARE TO BE REMOVED. ALL REPLACED DEVICES AND WIRING ARE TO BE DISPOSED OF. DEVICES TO BE REINSTALLED ARE TO BE CLEANED PRIOR TO INSTALLATION. (RWC-L1)

2 RETROFIT WEBS ECS
LOWER ACCESS DOOR: EXPECTED CONDITION OF DEVICES IN RETROFIT TOWERS AFTER COMPLETION, INCLUDING PoE EXTENDER AND WEBS DRIVER MOUNTED WITH "Z" BRACKETS TO BACK PLATE, AND NEW GFCI OUTLET AND POWER SWITCH. (RWC-L1)

3 RETROFIT WEBS ECS
UPPER ACCESS DOOR: EXPECTED CONDITION OF DEVICES IN RETROFIT TOWERS AFTER COMPLETION, INCLUDING WEBS VCU AND AMPLIFIER. (RWC-L1)

4 CAMERA ARM
RETROFIT TOWER: EXPECTED CONDITION OF CAMERA ARM AFTER COMPLETION OF FIELD MODIFICATION TO EXISTING TOWER. (RWC-L1)

5 RODENT BARRIER
LOWER ACCESS DOOR: EXPECTED CONDITION OF RODENT BARRIER AFTER COMPLETION. (RWC-L1)



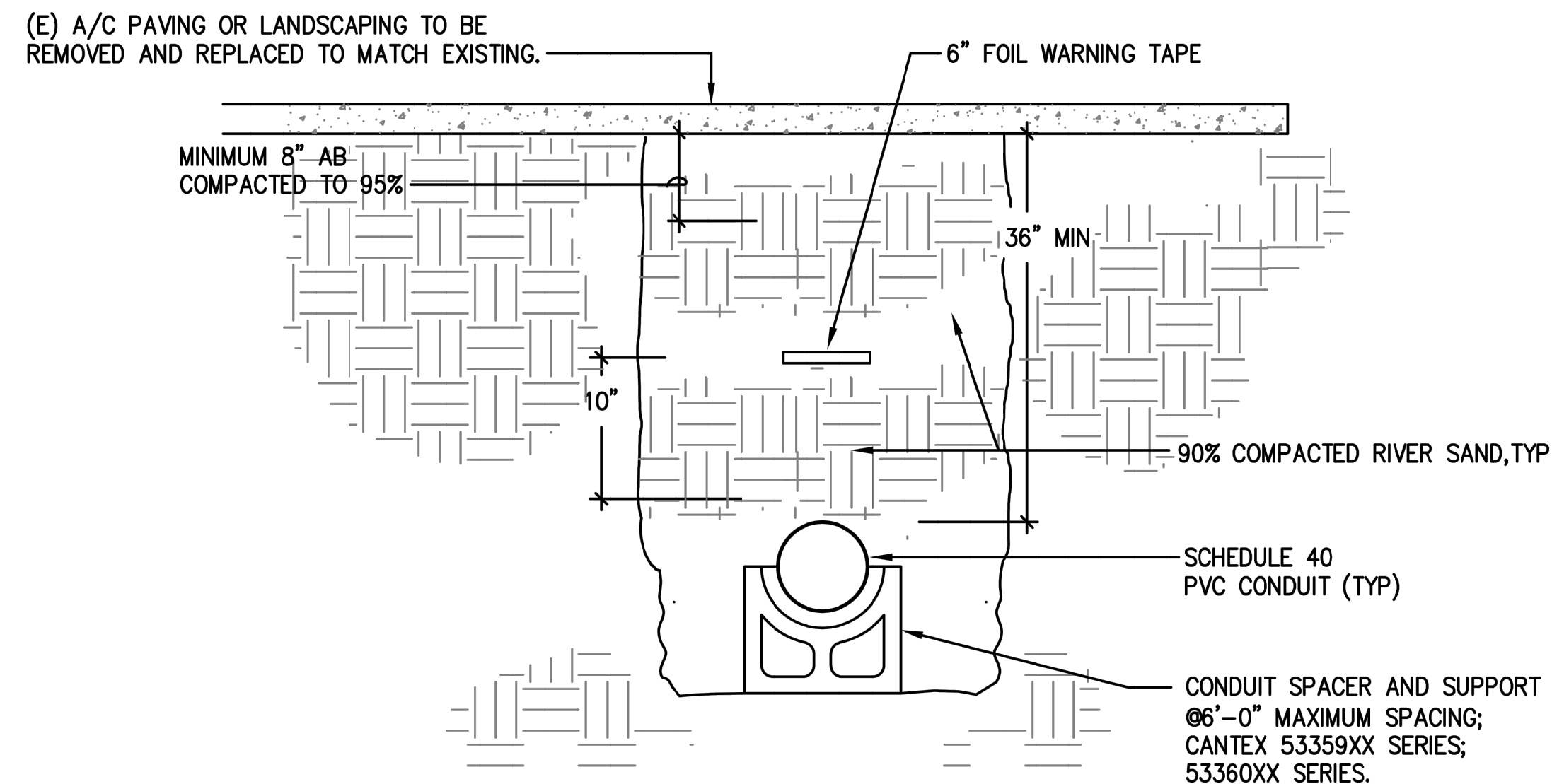
6 EXISTING PEDESTAL
TYPICAL CONDITION OF EXISTING PEDESTAL. ALL EXISTING DEVICES AND WIRING ARE TO BE REMOVED. ALL REPLACED WITH NEW WEBS TOWER AND DEVICES. (NTC-C1)

7 NEW WEBS TOWER
LOWER ACCESS DOOR: EXPECTED CONDITION OF DEVICES IN NEW TOWERS AFTER ALL COMPLETION, INCLUDING PoE EXTENDER AND WEBS DRIVER MOUNTED WITH "Z" BRACKETS TO BACK PLATE, AND NEW GFCI OUTLET AND POWER SWITCH. (NTC-C1)

8 PoE EXTENDER (INTERNAL)
EXPECTED CONDITION OF PoE EXTENDER WIRING AND FIBER OPTIC TERMINATIONS AFTER COMPLETION.

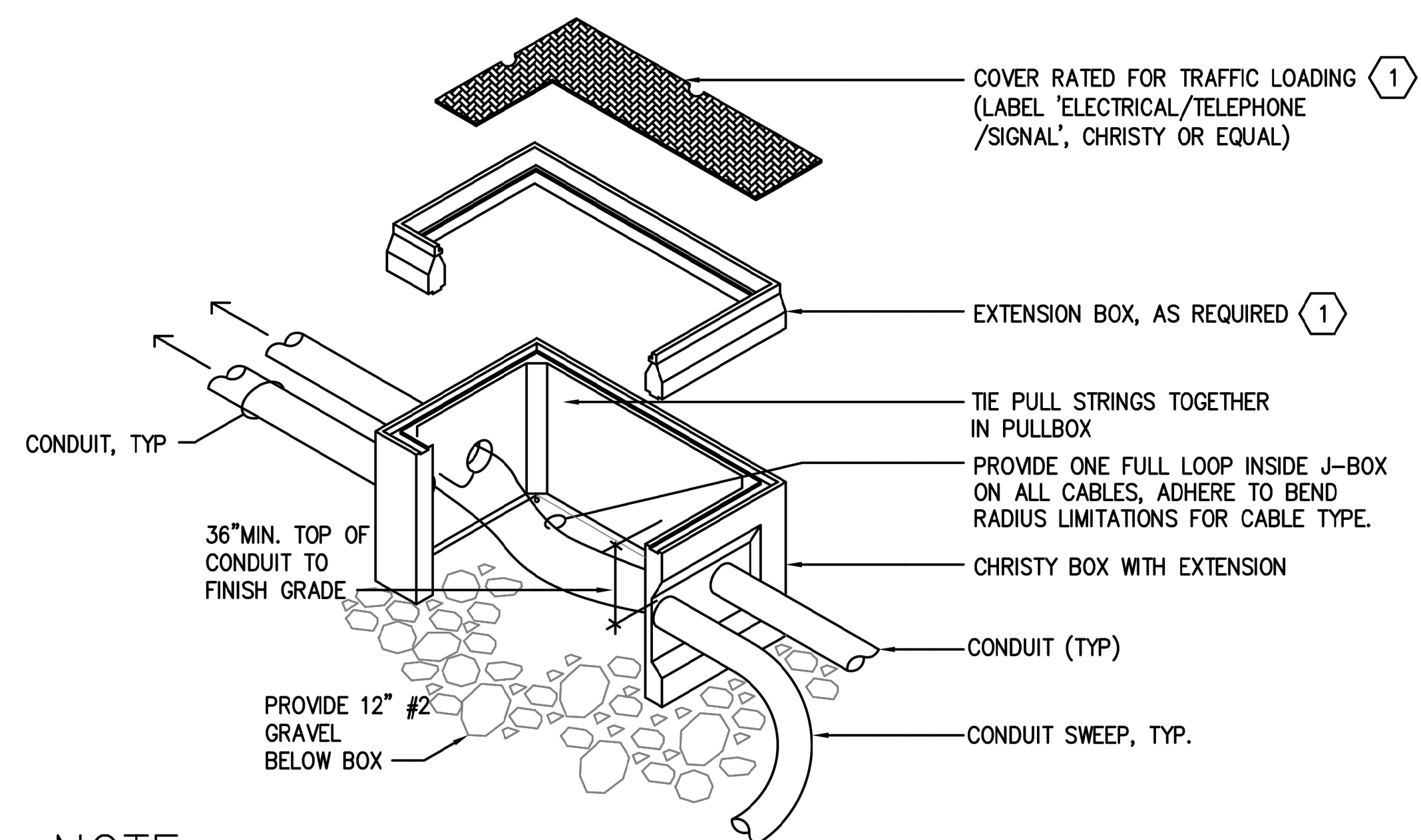
9 RACK MOUNTED PFC
EXPECTED CONDITION OF RACK MOUNTED PFC CHASSIS AFTER COMPLETION.

10 PFC POWER TERMINATION
EXPECTED CONDITION OF 120VAC TERMINATION TO PFC AFTER COMPLETION.



1 UNDERGROUND CONDUIT INSTALLATION DETAIL

NOT TO SCALE



NOTE:

1 PROVIDE TRAFFIC RATED COVER WITH STEEL FRAMING.

2 TYPICAL UNDERGROUND PULLBOX

NOT TO SCALE



CATALYST
CONSULTING GROUP, INC.

SECURITY PLANNING AND DESIGN
2789 NAPA VALLEY CORPORATE DRIVE
NAPA, CA 94558
Voice: 707 224-3020
Fax: 707-224-1377

SHEET NOTES:

PROPRIETARY INFORMATION

NO PART OF THIS DOCUMENT MAY BE COPIED, REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT PRIOR WRITTEN CONSENT OF CATALYST CONSULTING GROUP, INC.

No.	Revision	By	Date
	CONSTRUCTION DOCUMENTS	-	6/10/2020

Project:

**DISTRICT WIDE
EMERGENCY
COMMUNICATION SYSTEM
PROJECT**

Sheet Title:

**COMMUNICATION
TRENCH AND CONDUIT DETAILS**

Job No: 19.749
Scale: S.A.S
Date: 10/2/19
Sheet No:

SE4-1

CHABOT COLLEGE UTILITY SYSTEM MAP



PREPARED BY:  **SANDIS** | CIVIL ENGINEERS
SURVEYORS
PLANNERS

DATE: AUGUST 2014



TITLE PAGE

No.	REVISION	DATE	BY

**CAMPUS
UTILITY
SURVEY**

DATE: 8/04/14
SCALE: N.T.S.
DRAWN BY: GL
APPROVED BY: MAK
SANDS DRAWING No.:
612032

SHEET

1

OF 85 SHEETS

TABLE OF CONTENTS

TITLE PAGE I
 AERIAL PHOTO II
 TABLE OF CONTENTS III
 NOTES, LEGEND, AND ABBREVIATIONS . . . IV
 DSA PROJECT NUMBER MAP V
 PROJECT REFERENCES VI
 PROJECT REFERENCES VII
 KEY PLAN VIII

NATURAL GAS
 -SYSTEM DIAGRAM GD
 -UTILITY PLAN G1-G6

STORM DRAIN
 -SYSTEM DIAGRAM SDD
 -UTILITY PLAN SD1-SD6

SANITARY SEWER
 -SYSTEM DIAGRAM SSD
 -UTILITY PLAN SS1-SS6

DOMESTIC WATER
 -SYSTEM DIAGRAM DWD
 -UTILITY PLAN DW1-DW6

FIRE WATER
 -SYSTEM DIAGRAM FWD
 -UTILITY PLAN FW1-FW6

IRRIGATION
 -SYSTEM DIAGRAM IRRD
 -UTILITY PLAN IRR1-IRR6

HYDRONIC PIPING
 -SYSTEM DIAGRAM HD
 -UTILITY PLAN H1-H6

TELECOM
 SYSTEM DIAGRAM TD
 UTILITY PLAN T1-T6

FIRE ALARM
 -SYSTEM DIAGRAM FAD
 -UTILITY PLAN FA1-FA6

ELECTRICAL
 -SYSTEM DIAGRAM ED
 -UTILITY PLAN E1-E6

STREET LIGHTING
 -SYSTEM DIAGRAM SLD
 -UTILITY PLAN SL1-SL6



TABLE OF CONTENTS

No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

DATE: 8/04/14
 SCALE: N.T.S.
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.: 612032

SHEET

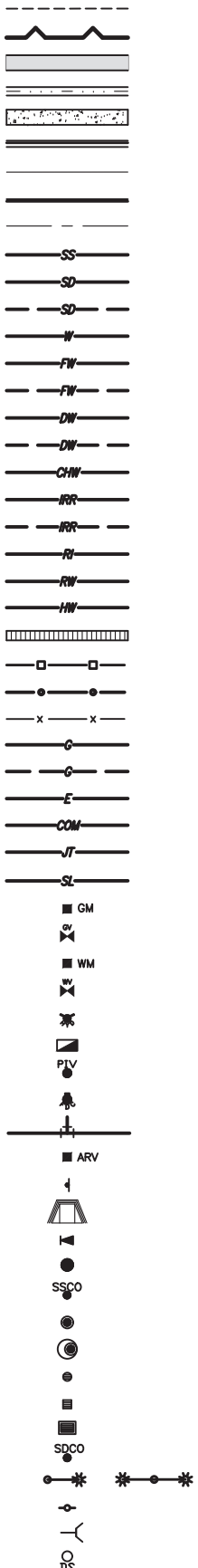


ABBREVIATIONS

- AB - AGGREGATE BASE
- AC - ASPHALT CONCRETE
- AD - AREA DRAIN
- ADA - AMERICANS WITH DISABILITIES ACT
- BFP - BACK FLOW PREVENTOR
- BLDC - BUILDING CORNER
- BLDG - BUILDING
- BOD - BOTTOM OF DOCK
- BOL - BOLLARD
- BOS - BOTTOM OF STEP
- BOW - FG @ BOTTOM OF WALL
- BW - BACK OF WALK
- C - CONCRETE OR CIVIL
- C&G - CURB AND GUTTER
- CB - CATCH BASIN
- CI - CURB INLET
- CIP - CAST IRON PIPE
- CL - CENTER LINE OR CLASS
- CMP - CORRUGATED METAL PIPE
- CO - CLEANOUT
- CONC - CONCRETE
- CONST - CONSTRUCTION OR CONSTRUCT
- DCDA - DOUBLE CHECK DETECTOR ASSEMBLY
- DI - DROP INLET
- DIP - DUCTILE IRON PIPE
- DOM - DOMESTIC
- DS - DOWN SPOUT
- DW - DOMESTIC WATER
- DWG - DRAWING
- E - EAST
- EC - END OF CURVE
- EP - EDGE OF PAVEMENT
- ELEV - ELEVATION
- EX., EXIST. - EXISTING
- FA - FIRE ALARM
- FC - FACE OF CURB
- FDC - FIRE DEPARTMENT CONNECTION
- FF - FINISHED FLOOR
- FG - FINISHED GRADE
- FH - FIRE HYDRANT
- FL - FLOW LINE
- FOUND - FOUNDATION
- FS - FINISHED SURFACE
- FT - FOOT
- FW - FIRE WATER
- G - GROUND ELEVATION
- GB - GRADE BREAK
- GV - GATE VALVE
- HOR - ACCESSIBLE RAMP
- HP - HIGH POINT
- INV - INVERT ELEVATION
- JP - JOINT POLE
- JT - JOINT TRENCH
- LIP - LIP OF GUTTER
- MAX - MAXIMUM
- MH - MANHOLE
- MIN - MINIMUM
- MON - MONUMENT
- N - NORTH
- NO - NUMBER
- NTS - NOT TO SCALE
- P - PAVEMENT ELEVATION
- PCC - PORTLAND CEMENT CONCRETE / POINT OF CONTINUOUS CURVATURE
- PIV - POST INDICATOR VALVE
- PL - PROPERTY LINE
- PP - POWER POLE
- PVC - POLYVINYL CHLORIDE PIPE
- R - RADIUS
- RC - RELATIVE COMPACTION
- RCP - REINFORCED CONCRETE PIPE
- RPPA - REDUCED PRESSURE PRINCIPLE ASSEMBLY
- R/W - RIGHT OF WAY
- S - SLOPE OR SOUTH
- S.A.D. - SEE ARCHITECTURAL DRAWINGS
- SD - STORM DRAIN
- SS - SANITARY SEWER
- STA - STATION
- STD - STANDARD
- S/W - SIDEWALK
- TC - TOP OF CURB
- TD - TRENCH DRAIN
- TOE - TOE OF SLOPE
- TOS - TOP OF STAIR
- TOW - FG @ TOP OF WALL
- TYP - TYPICAL
- WM - WATER METER
- WV - WATER VALVE
- W - WEST

LEGEND

- SAWCUT AND CONFORM LINE
- RETAINING WALL
- A.C. PAVEMENT
- CONC. VALLEY GUTTER
- CONC. SIDEWALK OR PAD
- 6" CURB & GUTTER
- EDGE OF A.C. PAVEMENT
- 6" VERTICAL CURB
- CENTER LINE
- SANITARY SEWER MAIN
- STORM DRAIN MAIN
- PERFORATED PIPE
- WATER MAIN
- FIRE WATER MAIN
- ABANDONED FIRE WATER MAIN
- DOMESTIC WATER MAIN
- ABANDONED DOMESTIC WATER MAIN
- CHILLED WATER MAIN
- IRRIGATION LINE
- ABANDONED IRRIGATION LINE
- RECLAIMED IRRIGATION LINE
- RECLAIMED WATER LINE
- HOT WATER MAIN
- TRENCH DRAIN
- METAL BEAM GUARD RAIL
- SILT FENCE
- CHAIN LINK FENCE
- GAS MAIN
- ABANDONED GAS MAIN
- ELECTRIC LINE
- TELECOM LINE
- JOINT TRENCH LINE
- STREET LIGHT CONDUIT
- GAS METER
- GAS VALVE
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- BACK FLOW PREVENTOR
- POST INDICATOR VALVE
- FIRE DEPARTMENT CONNECTION
- WATER LINE TEE
- AIR RELEASE VALVE
- SIGN
- ACCESSIBLE RAMP
- REDUCER
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- STORM DRAIN MANHOLE
- STORMCEPTOR
- STORM DRAIN AREA DRAIN
- STORM DRAIN CATCH BASIN
- STORM DRAIN CURB INLET
- STORM DRAIN CLEANOUT
- ELECTROLIER
- JOINT POLE
- OUTFALL STRUCTURE
- DOWN SPOUT



UTILITY NOTE:

UTILITIES SHOWN ON THIS DRAWING ARE A COMPILATION FROM RECORD DRAWINGS PROVIDED BY THE DISTRICT, TOPOGRAPHIC SURVEYS PERFORMED BY OTHERS AS PROVIDED BY THE DISTRICT, PREVIOUS FIELD SURVEYS PERFORMED BY BKF ENGINEERS AND UTILITY DESIGN FILES BY BKF ENGINEERS. THE UTILITIES SHOWN, AND THE LOCATION THEREOF, MAY BE INCOMPLETE OR INACCURATE AND SHOULD BE FIELD VERIFIED PRIOR TO ISSUANCE OF FINAL CONSTRUCTION DOCUMENTS OR CONSTRUCTION ITSELF.

BASIS FOR ELEVATIONS

THE ELEVATIONS ARE BASED ON THE FINISHED FLOOR OF BUILDING 300, AT THE DOORWAY LOCATED ON THE NORTHWESTERLY SIDE OF BUILDING 300, APPROXIMATELY 25' SOUTHWESTERLY FROM THE MOST NORTHERLY CORNER, AS SHOWN ON THE SITE PLAN OF "SOUTH COUNTY COMMUNITY COLLEGE DISTRICT, CHABOT COLLEGE - VALLEY CAMPUS", SHEET A2 DATED 8/30/76. THE ELEVATION WAS TAKEN AS 469.00 FEET. AFTER ESTABLISHING ELEVATIONS ON CONTROL POINTS 21, 22, 23, 24 AND 25, A LEVELING SURVEY WAS RUN FROM BUILDING 300 TO THE CITY OF LIVERMORE VERTICAL BENCHMARK 2K-242. IT WAS FOUND THAT BUILDING 300 WAS .07 FEET LOW AS COMPARED TO THE CITY OF LIVERMORE DATA.

BASIS OF BEARINGS

THE BEARING OF NORTH 00°32'00" EAST, ALONG THE WEST LINE OF PLAT 15 OF THE RANCHO VALLE DE SAN JOSE, AS SHOWN ON RECORD OF SURVEY NO. 666, FILED APRIL 18, 1984, IN BOOK 12 OF RECORDS OF SURVEY, AT PAGES 20 & 21, WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.

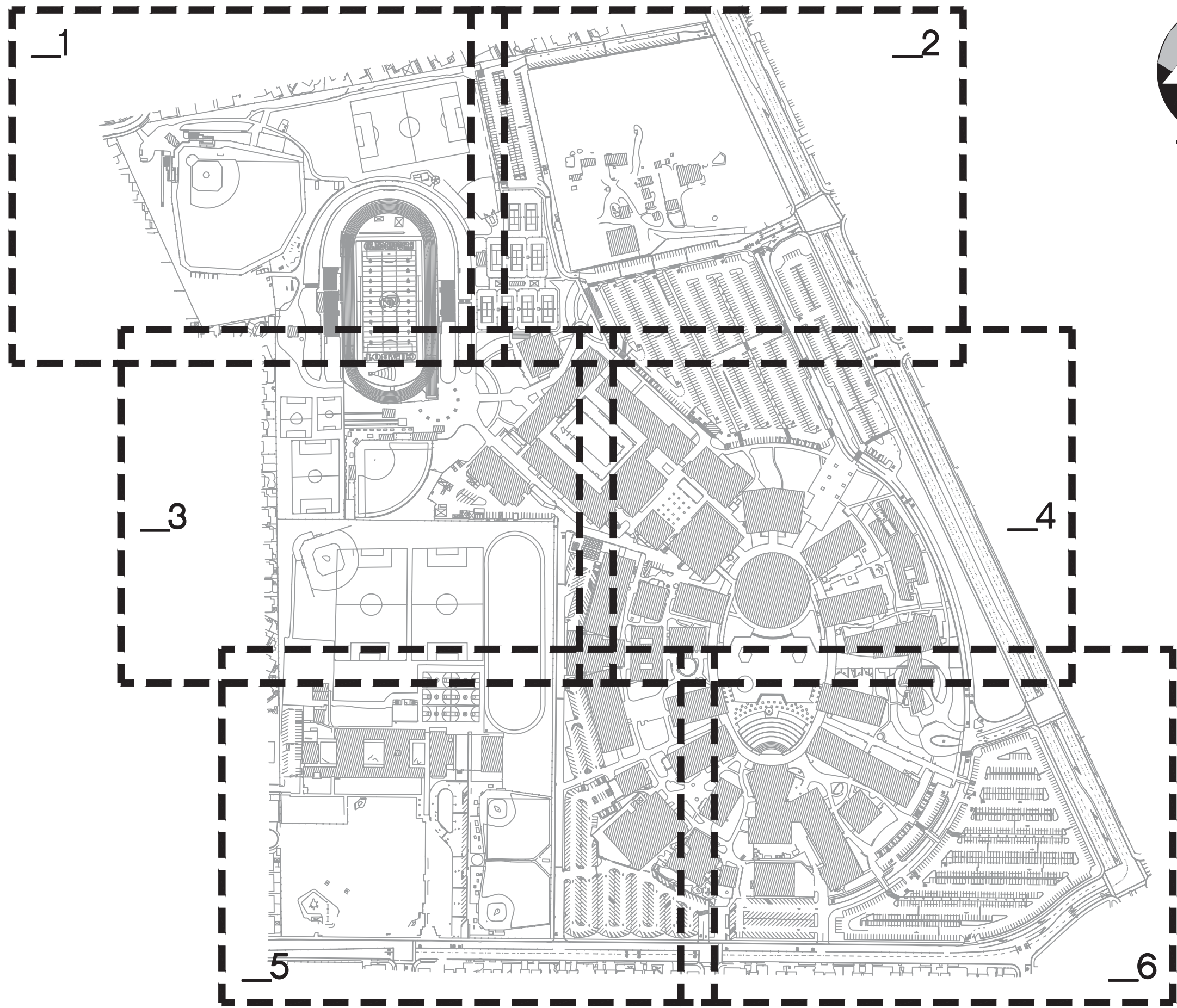


NOTES, LEGEND, AND ABBREVIATIONS

No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

DATE: 8/04/14
 SCALE: N.T.S.
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No: 612032



KEY PLAN

No.	REVISION	DATE	BY

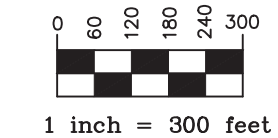
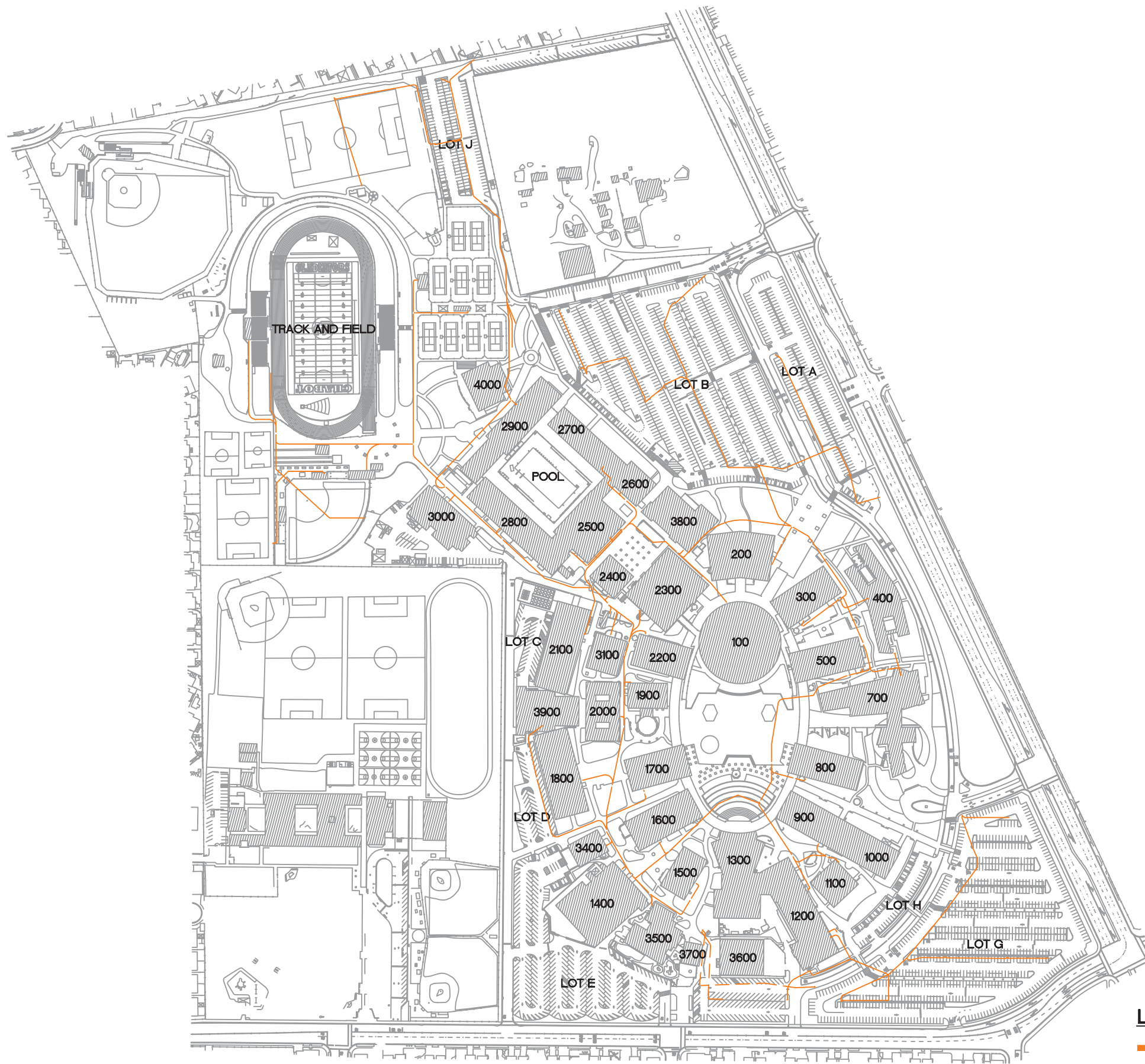
**CAMPUS
UTILITY
SURVEY**

DATE: 8/04/14
 SCALE: 1"=300'
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.:
612032

SHEET
VIII
 OF 85 SHEETS

BLDG # BUILDING NAME

100	LEARNING RESOURCE CENTER
200	ADMINISTRATION
300	BUSINESS EDUCATION BUILDING
400	BUSINESS EDUCATION FACILITY OFFICES
500	SOCIAL SCIENCE BUILDING
700	COMMUNITY STUDENT SERVICE CENTER
800	LANGUAGE ARTS BUILDING
900	HUMANITIES AND FOREIGN LANGUAGE
1000	ART BUILDING
1100	HUMANITIES FACULTY OFFICES
1200	PERFORMING ARTS CENTER
1300	AUDITORIUM
1400	INDUSTRIAL TECHNOLOGY CENTER
1500	TECHNICAL AND VOCATIONAL OFFICES
1600	ENGINEERING BUILDING
1700	PHYSICS AND MATHEMATICS
1800	MATH AND SCIENCE CLASSROOMS
1900	PLANETARIUM
2000	SCIENCE OFFICES
2100	BIOLOGICAL SCIENCES
2200	DENTAL CLINIC
2300	STUDENT CENTER
2400	STUDENT STORE
2500-2900	PE COMPLEX
3000	WAREHOUSE AND MAINTENANCE SHOP
3100	EMERGENCY MEDICAL SERVICES
3400	PRINTSHOP
3500	CHILD CARE CENTER
3600	PORTABLE BUILDING
3700	PORTABLE MODULAR
3800	BOOKSTORE
3900	CHEMISTRY
4000	PE COMPLEX



LEGEND

— TELECOM LINE

- - - ABANDONED TELECOM LINE

SANDIS CIVIL ENGINEERING PLANNING

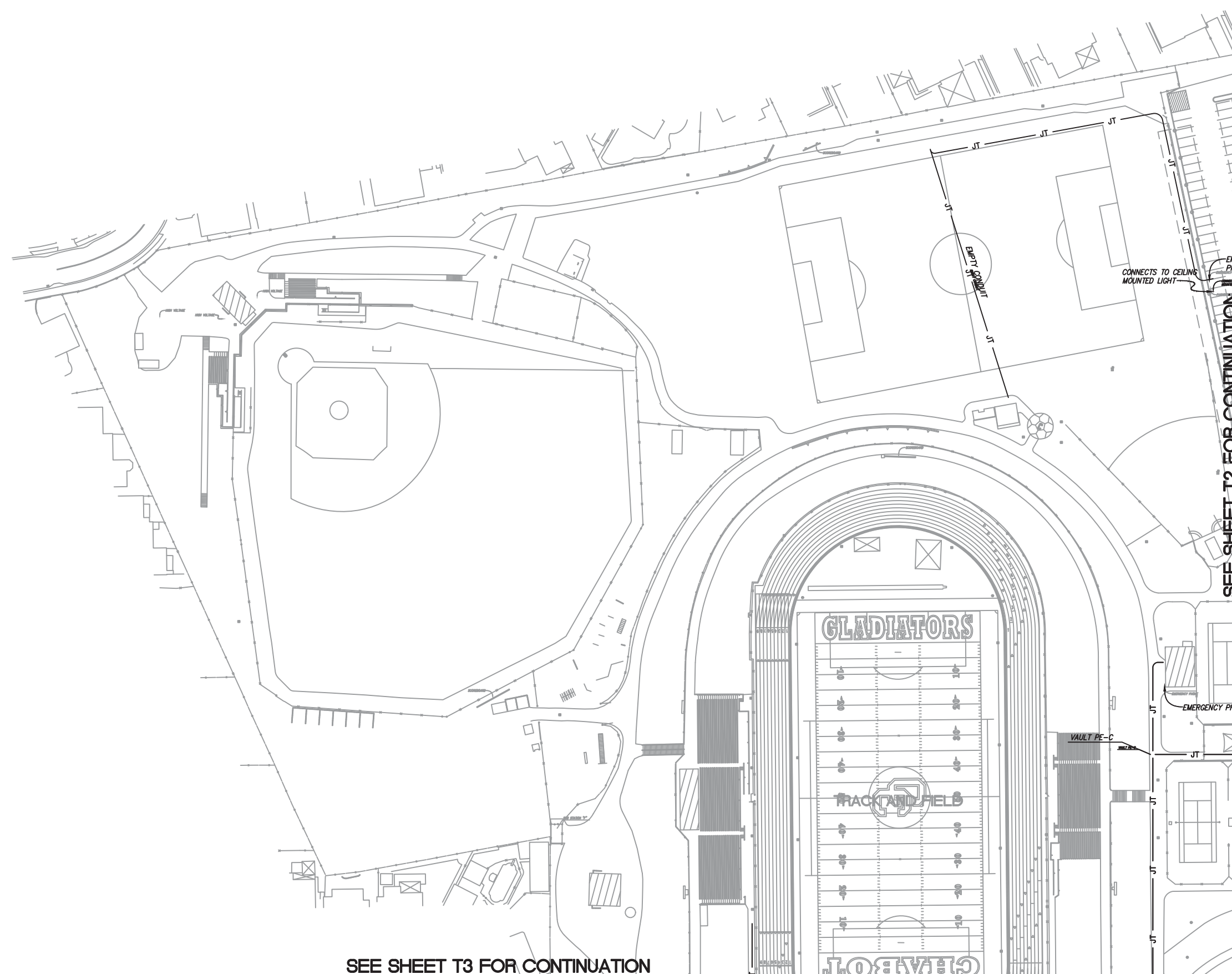
1775 W. UNIVERSITY BLVD. SUITE 1000 | TAMPA, FL 33613 | TEL: 813.974.1111

TELECOM SYSTEM DIAGRAM

No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

DATE: 8/04/14
 SCALE: 1"=300'
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.: 612032



SEE SHEET T3 FOR CONTINUATION

SEE SHEET T2 FOR CONTINUATION



UTILITY PLAN

REVISION	DATE	BY
No.		

CAMPUS UTILITY SURVEY

DATE: 8/04/14
 SCALE: 1"=100'
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.: 612032

SHEET

T1

OF 85 SHEETS



SANDIS
 CIVIL ENGINEERS
 PLANNERS
 ARCHITECTS
 LANDSCAPE ARCHITECTS
 ENVIRONMENTAL ENGINEERS
 SURVEYORS

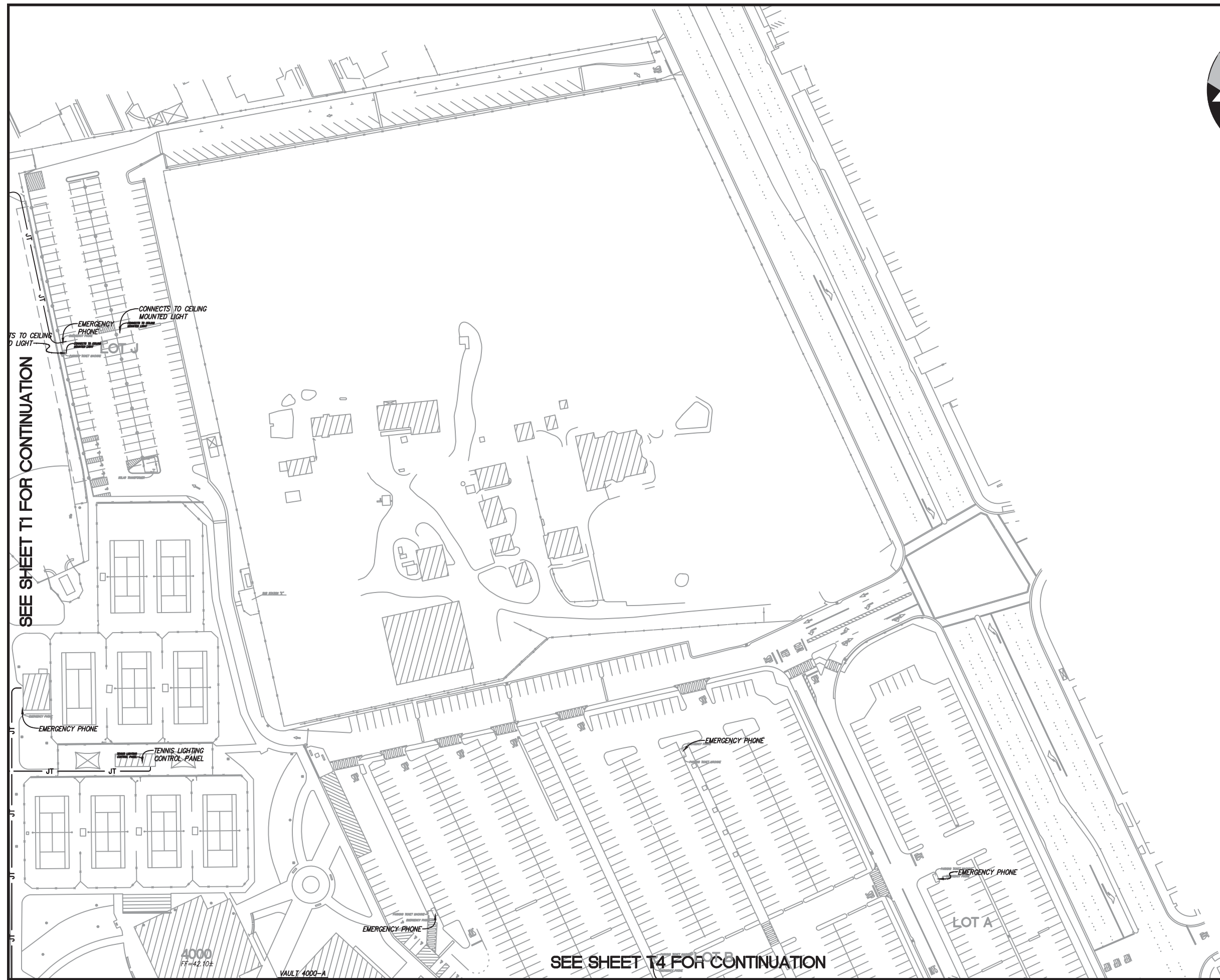
UTILITY PLAN

REVISION	DATE	BY

**CAMPUS
 UTILITY
 SURVEY**

DATE: 8/04/14
 SCALE: 1"=100'
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.:
612032

SHEET
T2
 OF 85 SHEETS

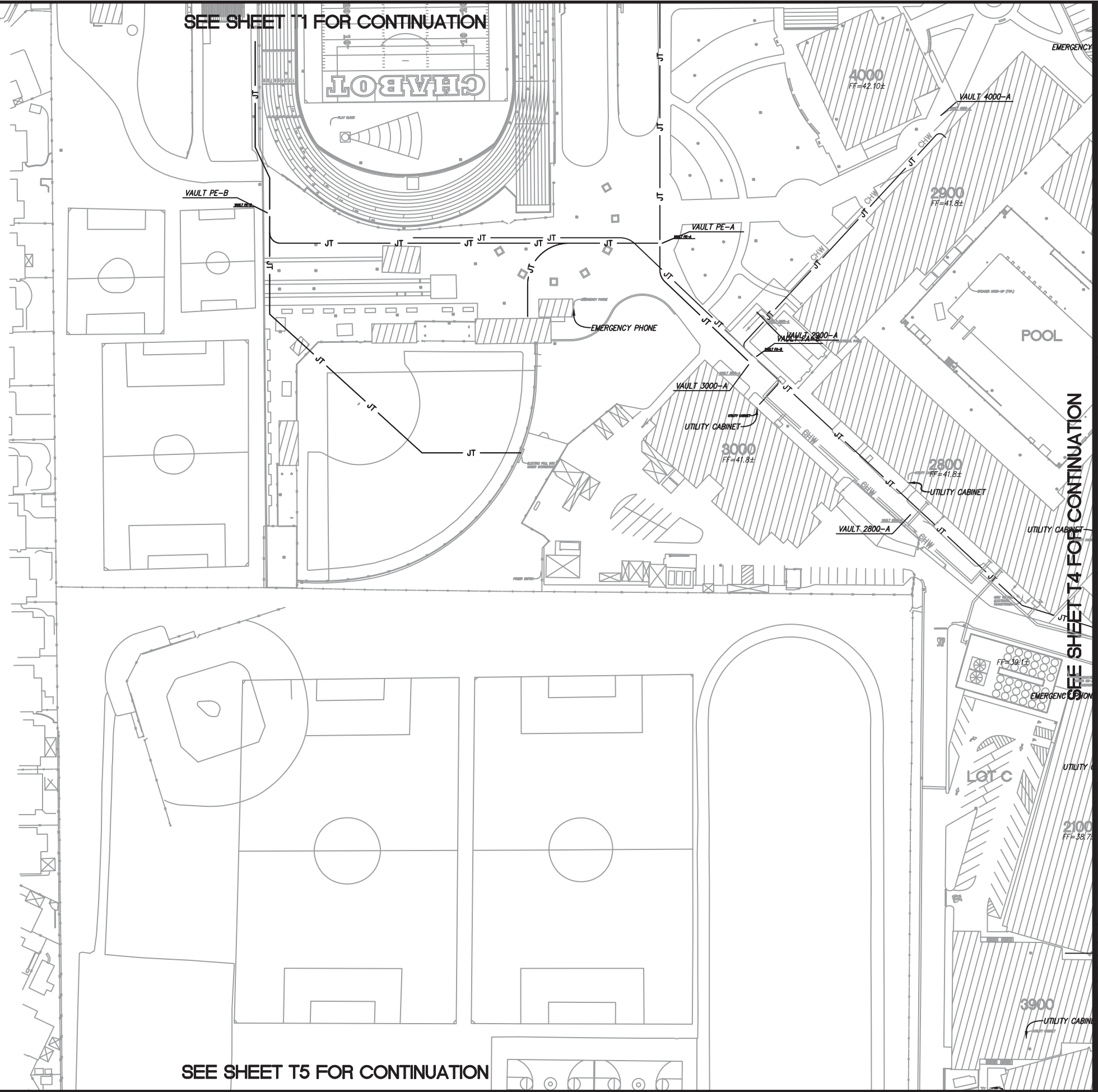


SEE SHEET T1 FOR CONTINUATION

SEE SHEET T4 FOR CONTINUATION



SEE SHEET T1 FOR CONTINUATION



SEE SHEET T5 FOR CONTINUATION



UTILITY PLAN

No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

DATE: 8/04/14
 SCALE: 1"=100'
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.: 612032

SHEET
T3
 OF 85 SHEETS

SEE SHEET T4 FOR CONTINUATION

SEE SHEET T2 FOR CONTINUATION

LOT A

LOT B



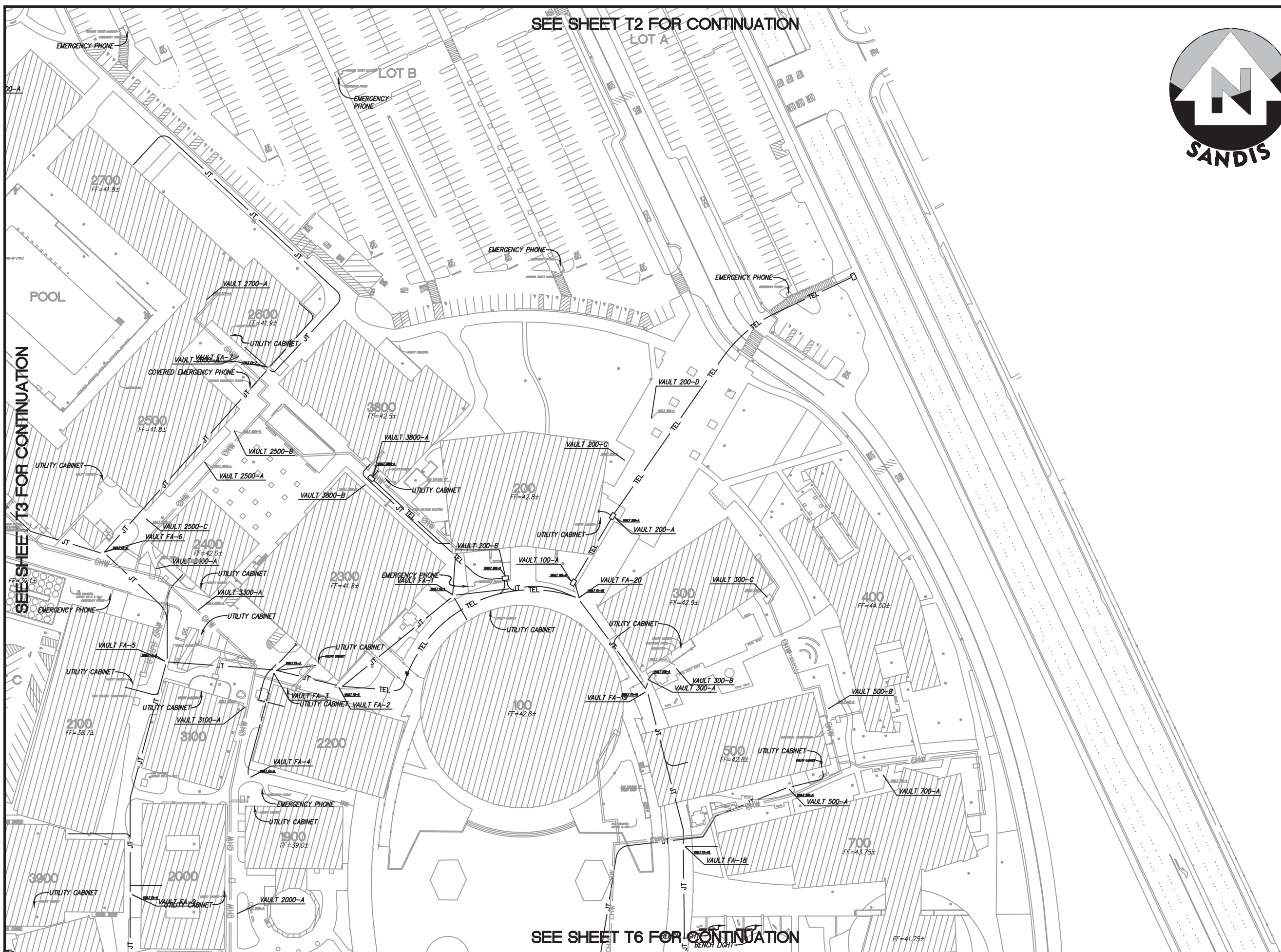
UTILITY PLAN

NO.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

DATE: 8/04/14
SCALE: 1"=100'
DRAWN BY: GL
APPROVED BY: MAK
SANDS DRAWING No: 612032

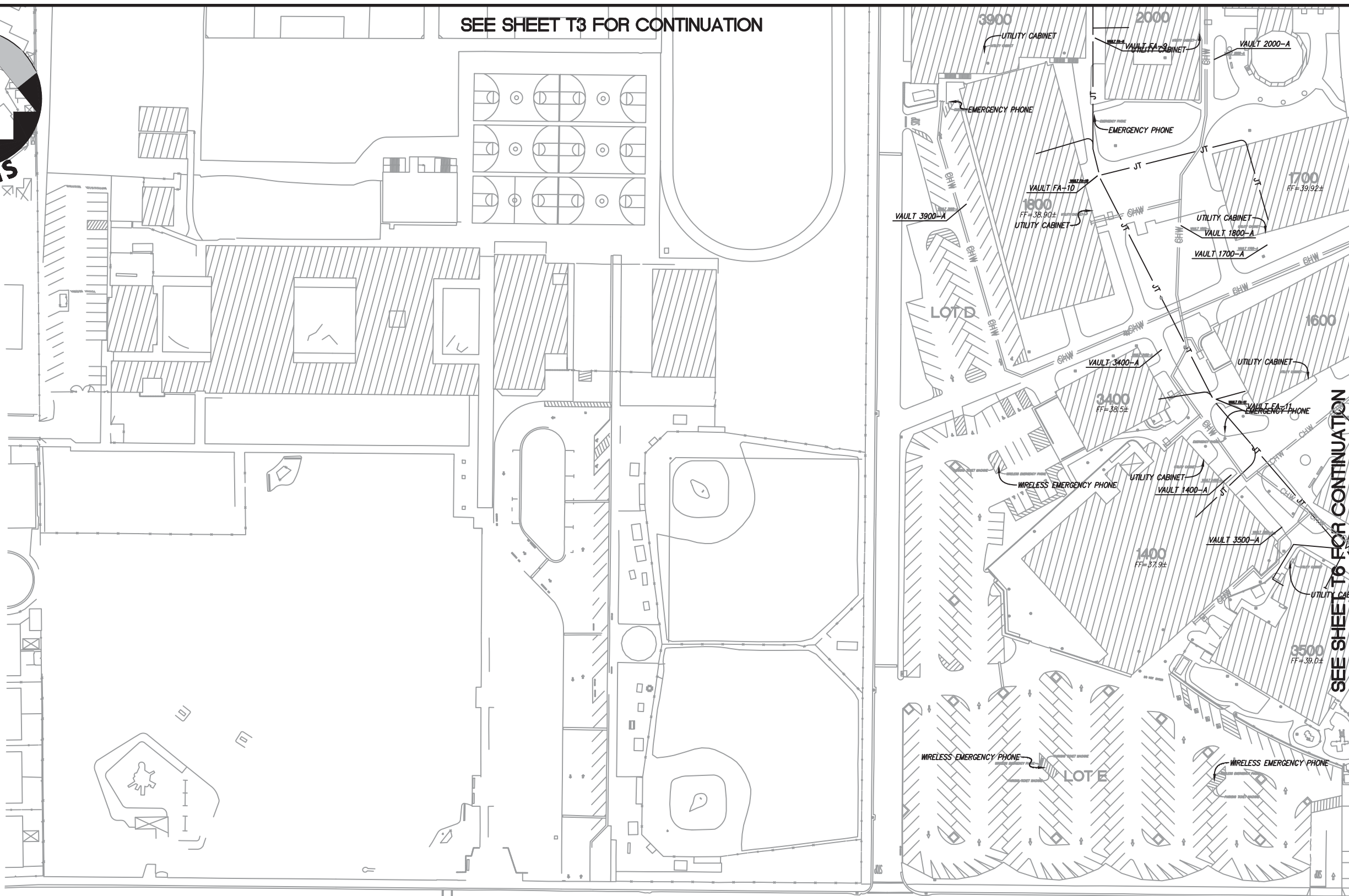
SHEET
T4
OF 85 SHEETS



SEE SHEET T6 FOR CONTINUATION



SEE SHEET T3 FOR CONTINUATION



SEE SHEET T6 FOR CONTINUATION



UTILITY PLAN

No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

DATE: 8/04/14
 SCALE: 1"=100'
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.: 612032

SHEET

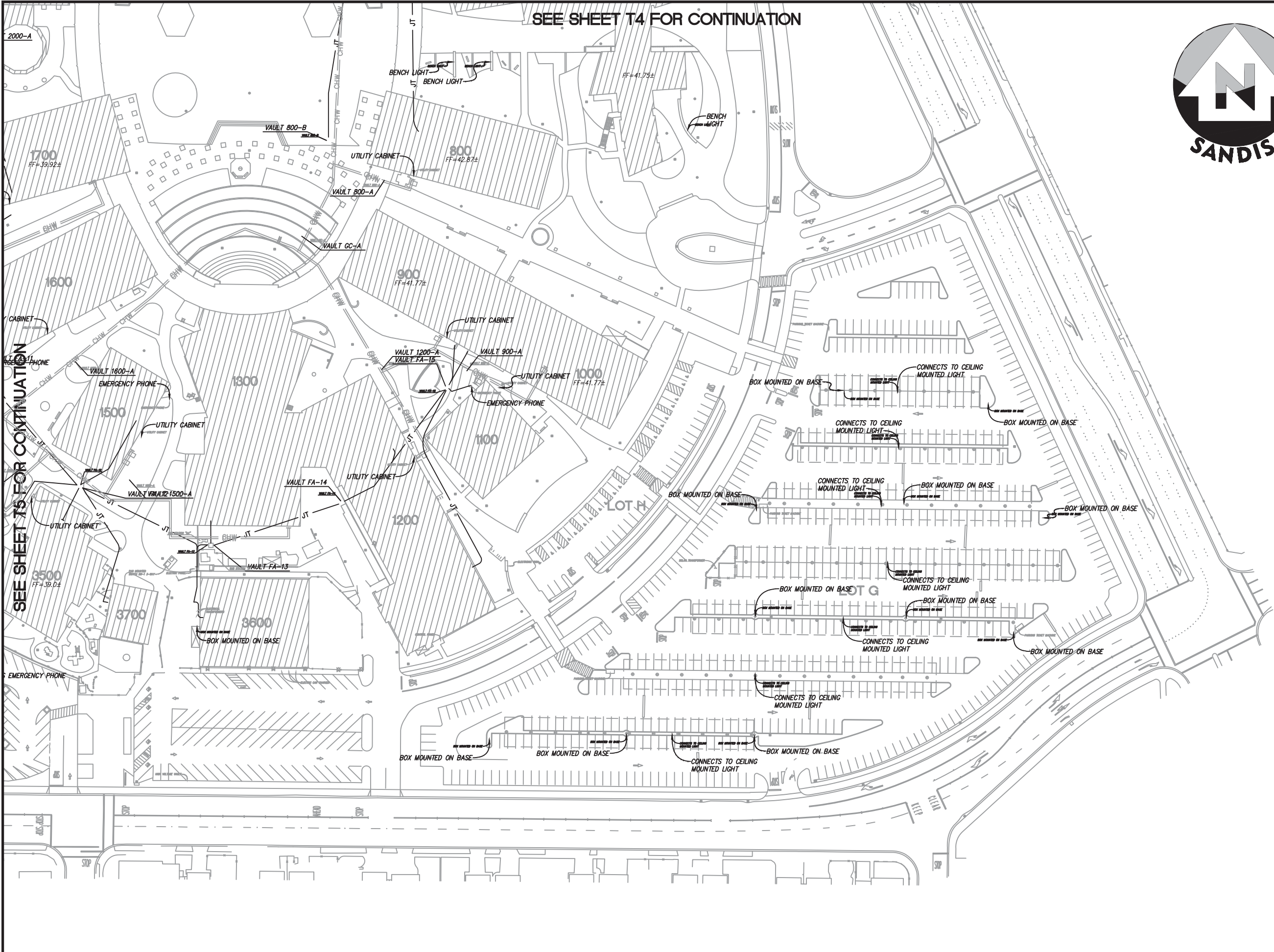
T5

OF 85 SHEETS

SEE SHEET T4 FOR CONTINUATION



SEE SHEET T5 FOR CONTINUATION



UTILITY PLAN

NO.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

DATE: 8/04/14
 SCALE: 1"=100'
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.: 612032

SHEET
T6
 OF 85 SHEETS

LAS POSITAS COLLEGE UTILITY SYSTEM MAP



PREPARED BY:  **SANDIS** | CIVIL ENGINEERS
SURVEYORS
PLANNERS

DATE: OCTOBER 2012



TITLE PAGE

No.	REVISION	DATE	BY

**CAMPUS
UTILITY
SURVEY**

DATE: 10/26/12
SCALE: N.T.S.
DRAWN BY: GL
APPROVED BY: MAK
SANDS DRAWING No.:
612032

SHEET
—
OF **106** SHEETS

TABLE OF CONTENTS

TITLE PAGE I
 AERIAL PHOTO II
 TABLE OF CONTENTS III
 NOTES, LEGEND, AND ABBREVIATIONS . . . IV
 DSA PROJECT NUMBER MAP V
 PROJECT REFERENCES VI
 KEY PLAN VII

NATURAL GAS
 -SYSTEM DIAGRAM GD
 -UTILITY PLAN G1-G8

STORM DRAIN
 -SYSTEM DIAGRAM SDD
 -UTILITY PLAN SD1-SD8

SANITARY SEWER
 -SYSTEM DIAGRAM SSD
 -UTILITY PLAN SS1-SS8

DOMESTIC WATER
 -SYSTEM DIAGRAM DWD
 -UTILITY PLAN DW1-DW8

RECLAIMED WATER AND FIRE WATER
 -SYSTEM DIAGRAM FWD
 -UTILITY PLAN FW1-FW8

RECLAIMED IRRIGATION
 -SYSTEM DIAGRAM IRRD
 -UTILITY PLAN IRR1-IRR8

HYDRONIC PIPING
 -SYSTEM DIAGRAM HD
 -UTILITY PLAN H1-H8

TELECOM
 SYSTEM DIAGRAM TD
 UTILITY PLAN T1-T8

FIRE ALARM
 -SYSTEM DIAGRAM FAD
 -UTILITY PLAN FA1-FA8

ELECTRICAL
 -SYSTEM DIAGRAM ED
 -UTILITY PLAN E1-E8

STREET LIGHTING
 -SYSTEM DIAGRAM SLD
 -UTILITY PLAN SL1-SL8



TABLE OF CONTENTS

No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

DATE: 10/26/12
 SCALE: N.T.S.
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.: 612032

SHEET



OF 106 SHEETS

ABBREVIATIONS

AB	- AGGREGATE BASE
AC	- ASPHALT CONCRETE
AD	- AREA DRAIN
ADA	- AMERICANS WITH DISABILITIES ACT
BFP	- BACK FLOW PREVENTOR
BLDC	- BUILDING CORNER
BLDG	- BUILDING
BOD	- BOTTOM OF DOCK
BOL	- BOLLARD
BOS	- BOTTOM OF STEP
BOW	- FG @ BOTTOM OF WALL
BW	- BACK OF WALK
C	- CONCRETE OR CIVIL
C&G	- CURB AND GUTTER
CB	- CATCH BASIN
CI	- CURB INLET
CIP	- CAST IRON PIPE
CL	- CENTER LINE OR CLASS
CMP	- CORRUGATED METAL PIPE
CO	- CLEANOUT
CONC	- CONCRETE
CONST	- CONSTRUCTION OR CONSTRUCT
DCDA	- DOUBLE CHECK DETECTOR ASSEMBLY
DI	- DROP INLET
DIP	- DUCTILE IRON PIPE
DOM	- DOMESTIC
DS	- DOWN SPOUT
DW	- DOMESTIC WATER
DWG	- DRAWING
E	- EAST
EC	- END OF CURVE
EP	- EDGE OF PAVEMENT
ELEV	- ELEVATION
EX., EXIST.	- EXISTING
FA	- FIRE ALARM
FC	- FACE OF CURB
FDC	- FIRE DEPARTMENT CONNECTION
FF	- FINISHED FLOOR
FG	- FINISHED GRADE
FH	- FIRE HYDRANT
FL	- FLOW LINE
FOUND	- FOUNDATION
FS	- FINISHED SURFACE
FT	- FOOT
FW	- FIRE WATER
G	- GROUND ELEVATION
GB	- GRADE BREAK
GV	- GATE VALVE
HOR	- ACCESSIBLE RAMP
HP	- HIGH POINT
INV	- INVERT ELEVATION
JP	- JOINT POLE
JT	- JOINT TRENCH
LIP	- LIP OF GUTTER
MAX	- MAXIMUM
MH	- MANHOLE
MIN	- MINIMUM
MON	- MONUMENT
N	- NORTH
NO	- NUMBER
NTS	- NOT TO SCALE
P	- PAVEMENT ELEVATION
PCC	- PORTLAND CEMENT CONCRETE / POINT OF CONTINUOUS CURVATURE
PIV	- POST INDICATOR VALVE
PL	- PROPERTY LINE
PP	- POWER POLE
PVC	- POLYVINYL CHLORIDE PIPE
R	- RADIUS
RC	- RELATIVE COMPACTION
RCP	- REINFORCED CONCRETE PIPE
RPPA	- REDUCED PRESSURE PRINCIPLE ASSEMBLY
R/W	- RIGHT OF WAY
S	- SLOPE OR SOUTH
S.A.D.	- SEE ARCHITECTURAL DRAWINGS
SD	- STORM DRAIN
SS	- SANITARY SEWER
STA	- STATION
STD	- STANDARD
S/W	- SIDEWALK
TC	- TOP OF CURB
TD	- TRENCH DRAIN
TOE	- TOE OF SLOPE
TOS	- TOP OF STAIR
TOW	- FG @ TOP OF WALL
TYP	- TYPICAL
WM	- WATER METER
WV	- WATER VALVE
W	- WEST

LEGEND

SAWCUT AND CONFORM LINE	
RETAINING WALL	
A.C. PAVEMENT	
CONC. VALLEY GUTTER	
CONC. SIDEWALK OR PAD	
6" CURB & GUTTER	
EDGE OF A.C. PAVEMENT	
6" VERTICAL CURB	
CENTER LINE	
SANITARY SEWER MAIN	
STORM DRAIN MAIN	
PERFORATED PIPE	
WATER MAIN	
FIRE WATER MAIN	
DOMESTIC WATER MAIN	
CHILLED WATER MAIN	
IRRIGATION LINE	
RECLAIMED IRRIGATION LINE	
RECLAIMED WATER LINE	
HOT WATER MAIN	
TRENCH DRAIN	
METAL BEAM GUARD RAIL	
SILT FENCE	
CHAIN LINK FENCE	
GAS MAIN	
ELECTRIC LINE	
TELECOM LINE	
JOINT TRENCH LINE	
STREET LIGHT CONDUIT	
GAS METER	
GAS VALVE	
WATER METER	
WATER VALVE	
FIRE HYDRANT	
BACK FLOW PREVENTOR	
POST INDICATOR VALVE	
FIRE DEPARTMENT CONNECTION	
WATER LINE TEE	
AIR RELEASE VALVE	
SIGN	
ACCESSIBLE RAMP	
REDUCER	
SANITARY SEWER MANHOLE	
SANITARY SEWER CLEANOUT	
STORM DRAIN MANHOLE	
STORMCEPTOR	
STORM DRAIN AREA DRAIN	
STORM DRAIN CATCH BASIN	
STORM DRAIN CURB INLET	
STORM DRAIN CLEANOUT	
ELECTROLIER	
JOINT POLE	
OUTFALL STRUCTURE	

UTILITY NOTE:

UTILITIES SHOWN ON THIS DRAWING ARE A COMPILATION FROM RECORD DRAWINGS PROVIDED BY THE DISTRICT, TOPOGRAPHIC SURVEYS PERFORMED BY OTHERS AS PROVIDED BY THE DISTRICT, PREVIOUS FIELD SURVEYS PERFORMED BY BKF ENGINEERS AND UTILITY DESIGN FILES BY BKF ENGINEERS. THE UTILITIES SHOWN, AND THE LOCATION THEREOF, MAY BE INCOMPLETE OR INACCURATE AND SHOULD BE FIELD VERIFIED PRIOR TO ISSUANCE OF FINAL CONSTRUCTION DOCUMENTS OR CONSTRUCTION ITSELF.

BASIS FOR ELEVATIONS

THE ELEVATIONS ARE BASED ON THE FINISHED FLOOR OF BUILDING 300, AT THE DOORWAY LOCATED ON THE NORTHWESTERLY SIDE OF BUILDING 300, APPROXIMATELY 25' SOUTHWESTERLY FROM THE MOST NORTHERLY CORNER, AS SHOWN ON THE SITE PLAN OF "SOUTH COUNTY COMMUNITY COLLEGE DISTRICT, CHABOT COLLEGE - VALLEY CAMPUS", SHEET A2 DATED 8/30/76. THE ELEVATION WAS TAKEN AS 469.00 FEET. AFTER ESTABLISHING ELEVATIONS ON CONTROL POINTS 21, 22, 23, 24 AND 25, A LEVELING SURVEY WAS RUN FROM BUILDING 300 TO THE CITY OF LIVERMORE VERTICAL BENCHMARK 2K-242. IT WAS FOUND THAT BUILDING 300 WAS .07 FEET LOW AS COMPARED TO THE CITY OF LIVERMORE DATA.

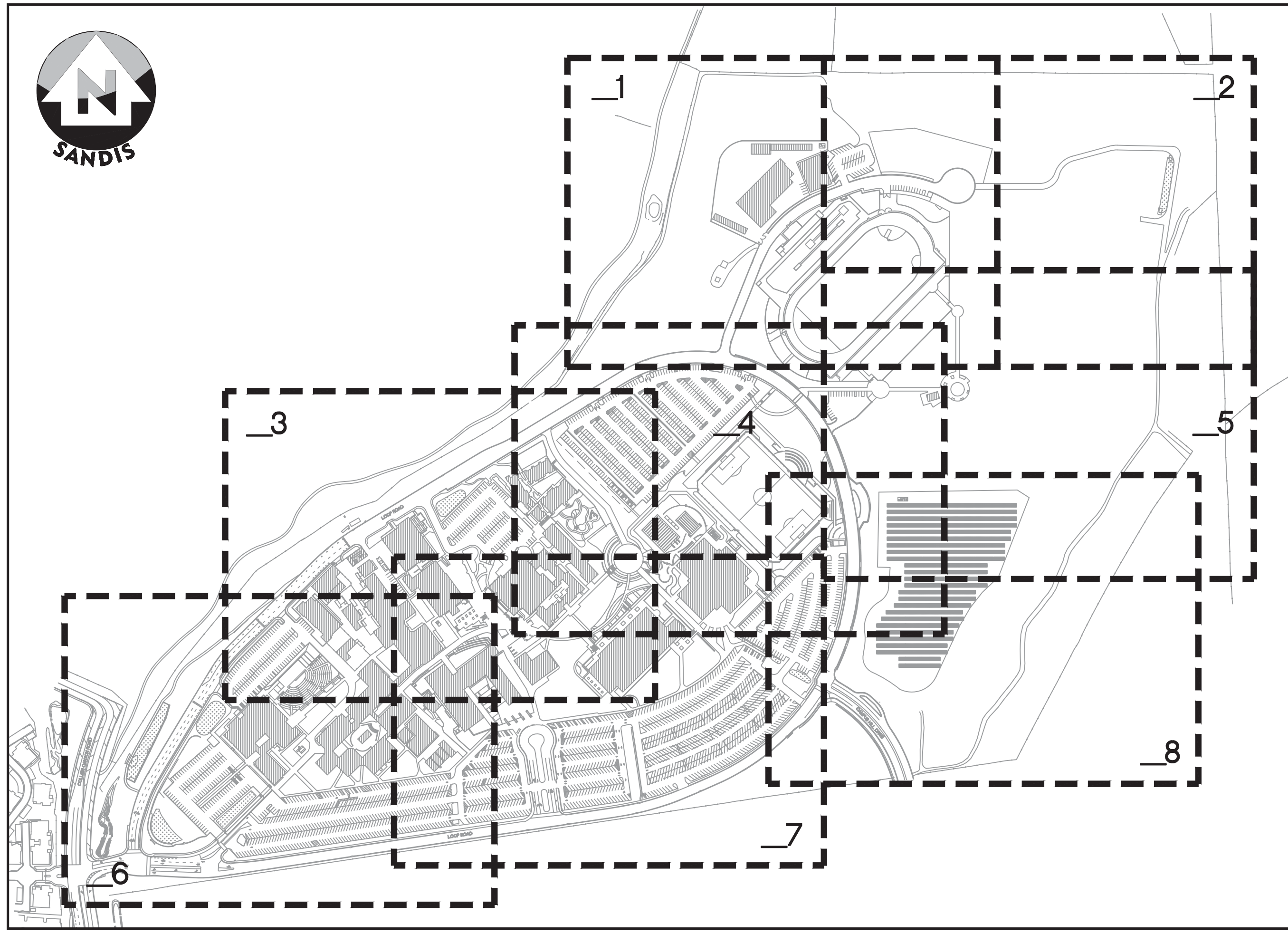
BASIS OF BEARINGS

THE BEARING OF NORTH 00°32'00" EAST, ALONG THE WEST LINE OF PLAT 15 OF THE RANCHO VALLE DE SAN JOSE, AS SHOWN ON RECORD OF SURVEY NO. 666, FILED APRIL 18, 1984, IN BOOK 12 OF RECORDS OF SURVEY, AT PAGES 20 & 21, WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.

No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

DATE: 10/26/12
SCALE: N.T.S.
DRAWN BY: GL
APPROVED BY: MAK
SANDS DRAWING No.: 612032



KEY PLAN

No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

DATE: 10/26/12
SCALE: 1"=300'
DRAWN BY: GL
APPROVED BY: MAK
SANDS DRAWING No.: 612032

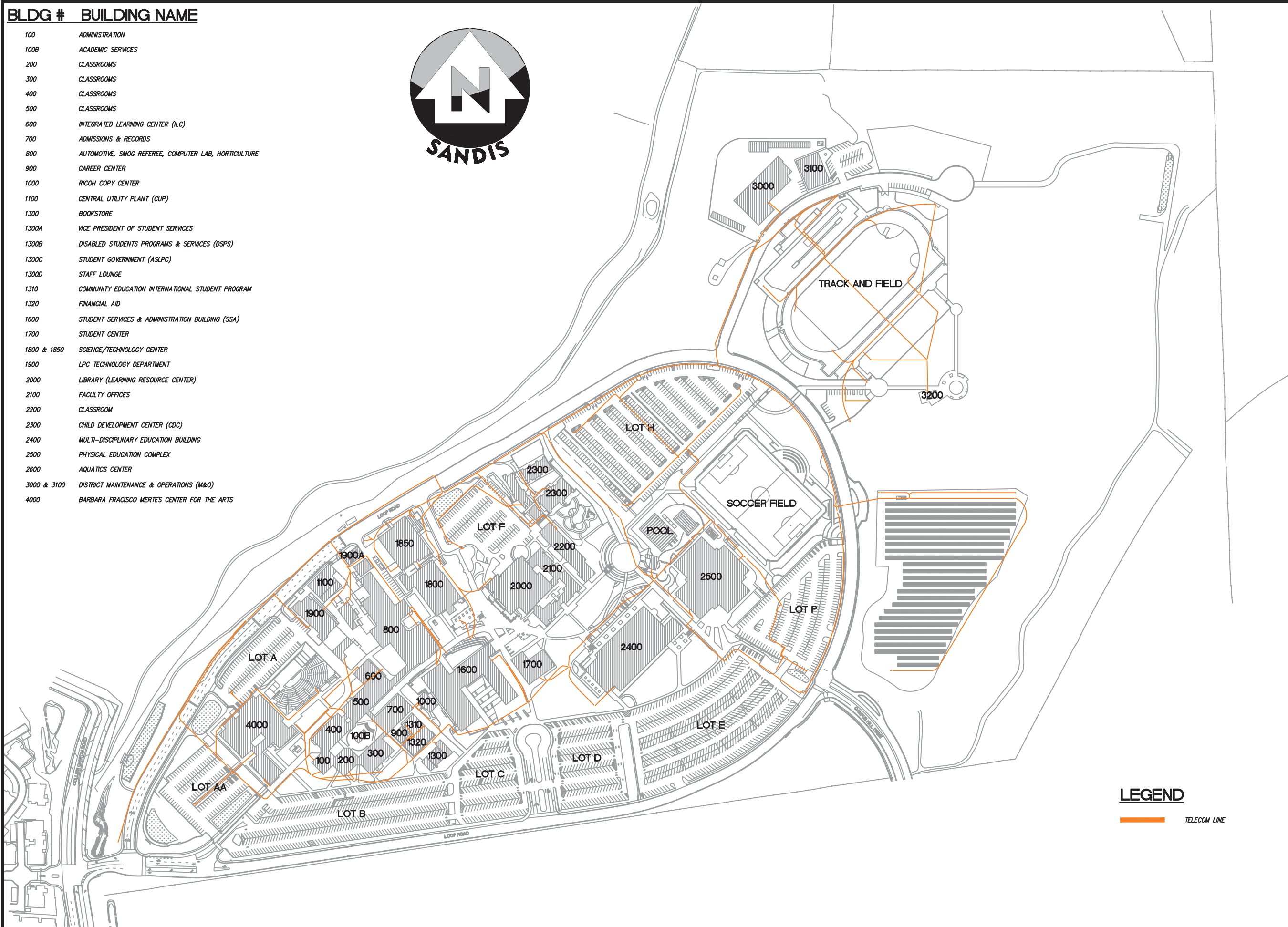
SHEET

VII

OF 106 SHEETS

BLDG # BUILDING NAME

100	ADMINISTRATION
100B	ACADEMIC SERVICES
200	CLASSROOMS
300	CLASSROOMS
400	CLASSROOMS
500	CLASSROOMS
600	INTEGRATED LEARNING CENTER (ILC)
700	ADMISSIONS & RECORDS
800	AUTOMOTIVE, SMOG REFEREE, COMPUTER LAB, HORTICULTURE
900	CAREER CENTER
1000	RICOH COPY CENTER
1100	CENTRAL UTILITY PLANT (CUP)
1300	BOOKSTORE
1300A	VICE PRESIDENT OF STUDENT SERVICES
1300B	DISABLED STUDENTS PROGRAMS & SERVICES (DSPS)
1300C	STUDENT GOVERNMENT (ASLPC)
1300D	STAFF LOUNGE
1310	COMMUNITY EDUCATION INTERNATIONAL STUDENT PROGRAM
1320	FINANCIAL AID
1600	STUDENT SERVICES & ADMINISTRATION BUILDING (SSA)
1700	STUDENT CENTER
1800 & 1850	SCIENCE/TECHNOLOGY CENTER
1900	LPC TECHNOLOGY DEPARTMENT
2000	LIBRARY (LEARNING RESOURCE CENTER)
2100	FACULTY OFFICES
2200	CLASSROOM
2300	CHILD DEVELOPMENT CENTER (CDC)
2400	MULTI-DISCIPLINARY EDUCATION BUILDING
2500	PHYSICAL EDUCATION COMPLEX
2600	AQUATICS CENTER
3000 & 3100	DISTRICT MAINTENANCE & OPERATIONS (M&O)
4000	BARBARA FRANCISCO MERTES CENTER FOR THE ARTS



LEGEND
 TELECOM LINE



TELECOM SYSTEM DIAGRAM

No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

DATE: 10/26/12
 SCALE: 1"=300'
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.: 612032

SHEET
TD
 OF 106 SHEETS



SANDIS
CIVIL ENGINEERS
PLANNERS
ARCHITECTS
LANDSCAPE ARCHITECTS
INTERIOR DESIGNERS

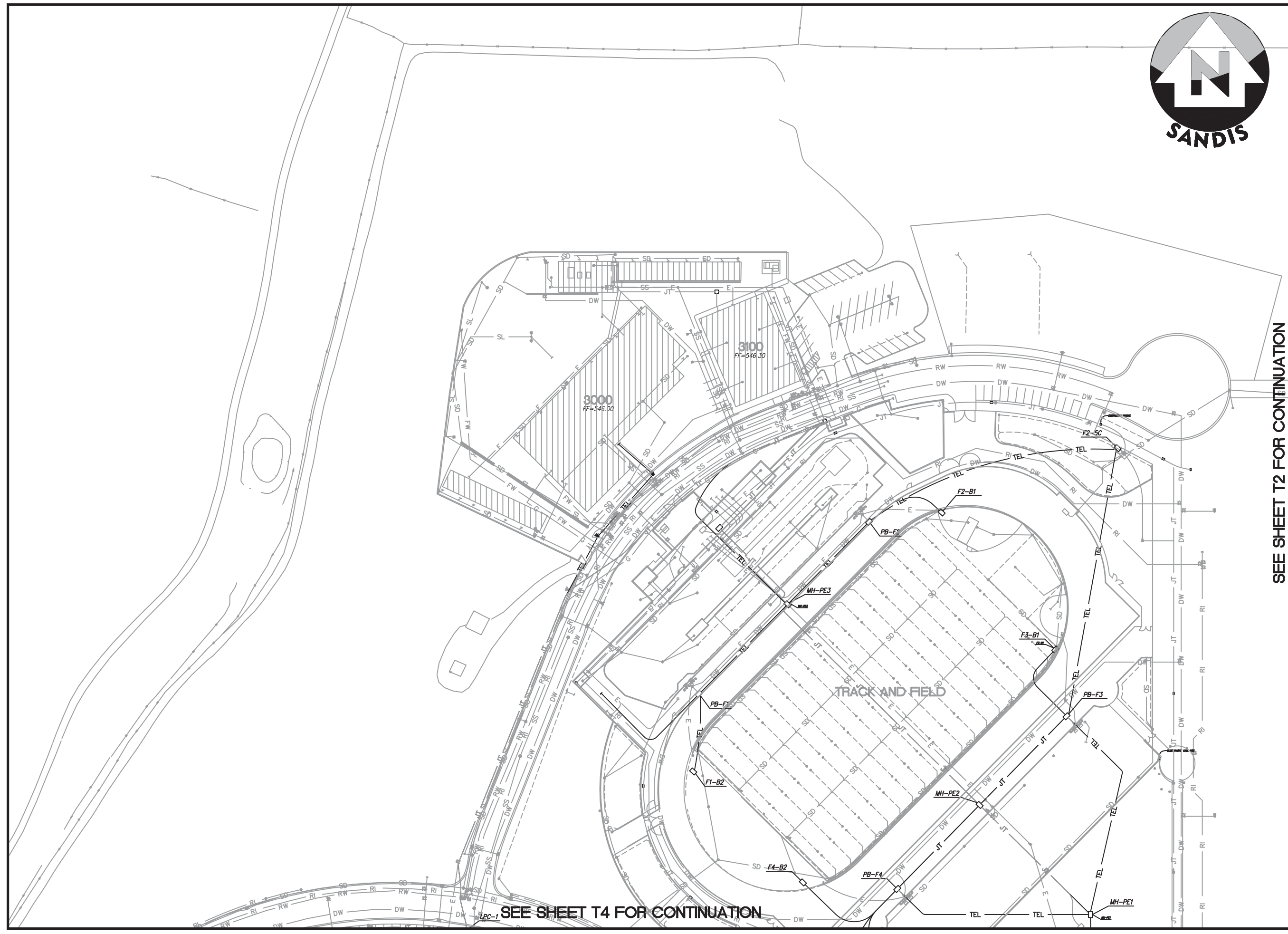
UTILITY PLAN

No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

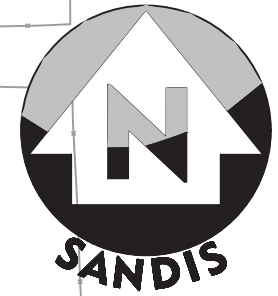
DATE: 10/26/12
SCALE: 1"=100'
DRAWN BY: GL
APPROVED BY: MAK
SANDS DRAWING No.: **612032**

SHEET
T1
OF 106 SHEETS



SEE SHEET T2 FOR CONTINUATION

SEE SHEET T4 FOR CONTINUATION



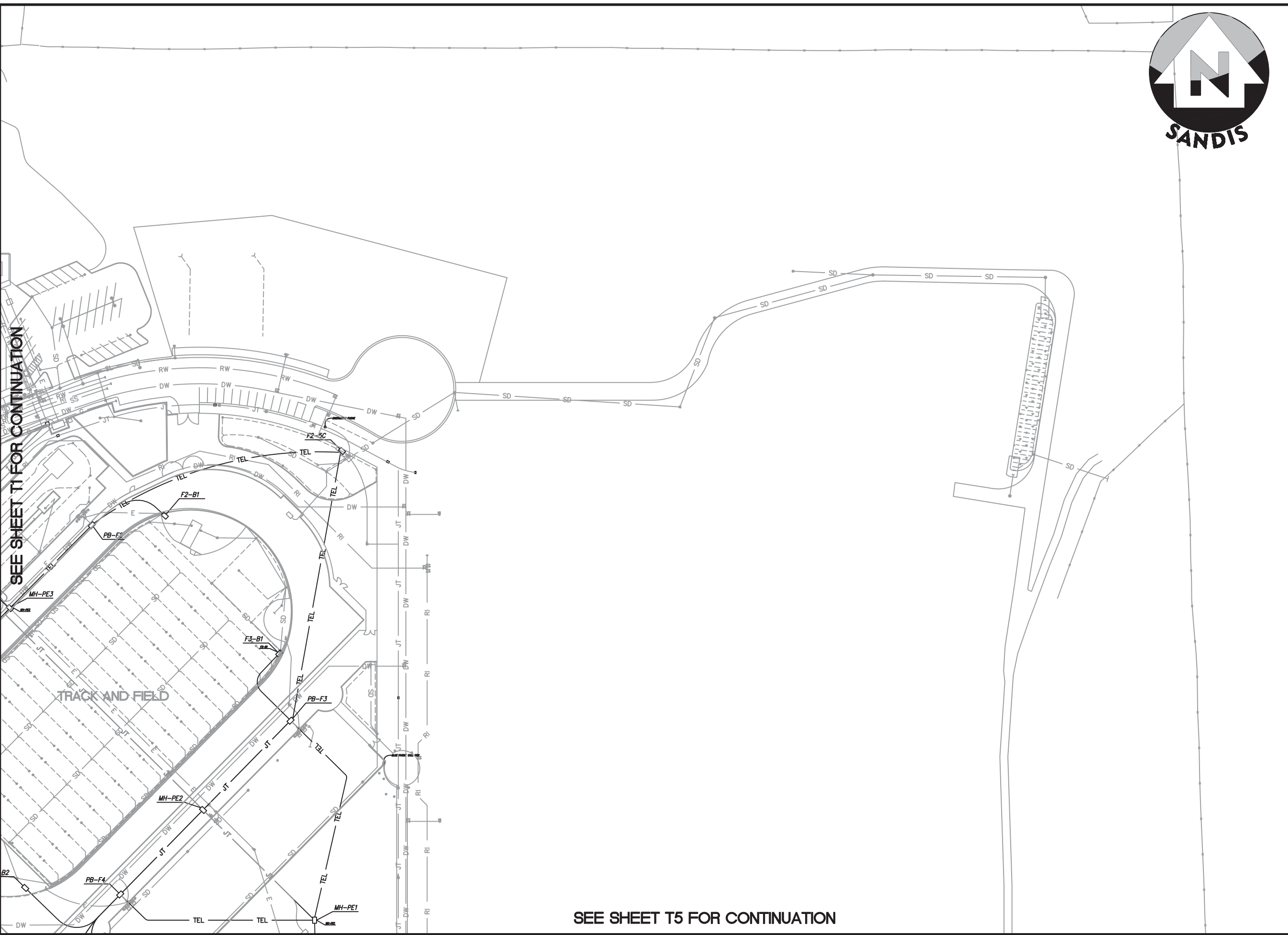
UTILITY PLAN

No.	REVISION	DATE	BY

**CAMPUS
UTILITY
SURVEY**

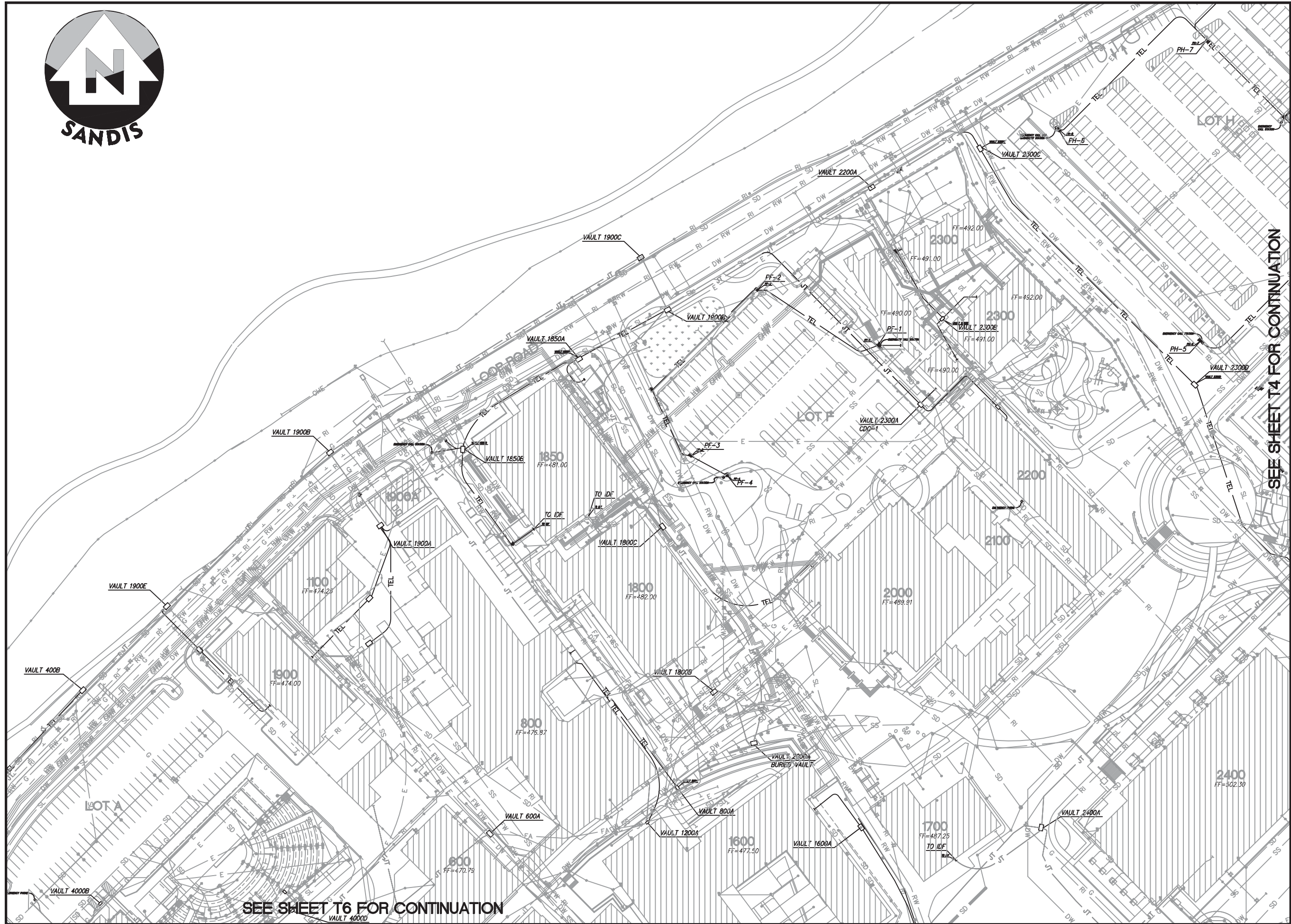
DATE: 10/26/12
 SCALE: 1"=100'
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.:
612032

SHEET
T2
 OF 106 SHEETS



SEE SHEET T1 FOR CONTINUATION

SEE SHEET T5 FOR CONTINUATION



SEE SHEET T4 FOR CONTINUATION

SEE SHEET T6 FOR CONTINUATION

UTILITY PLAN

No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

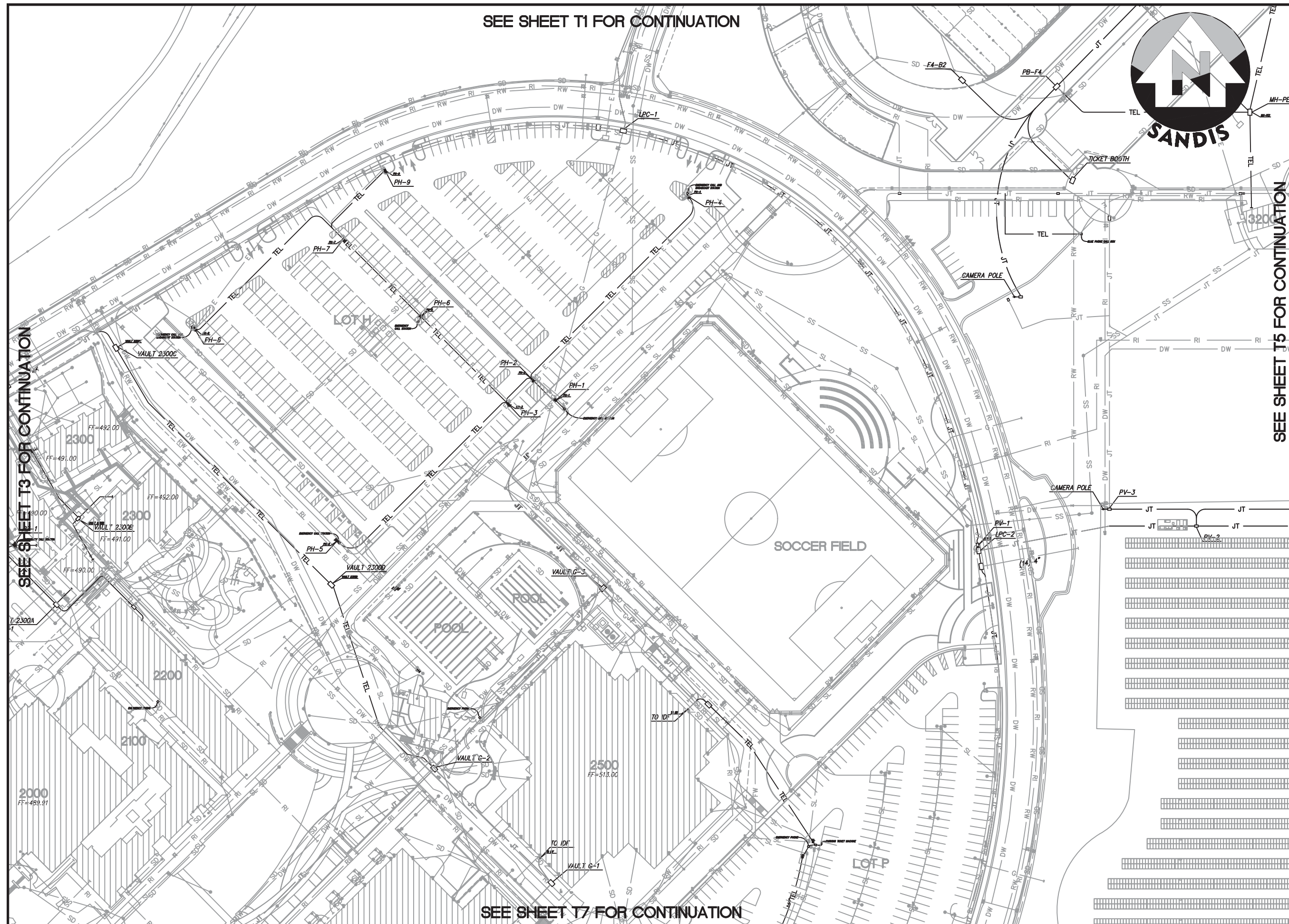
DATE: 10/26/12
 SCALE: 1"=100'
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.: 612032

SHEET

T3

OF 106 SHEETS

SEE SHEET T1 FOR CONTINUATION



SEE SHEET T3 FOR CONTINUATION

SEE SHEET T3 FOR CONTINUATION

UTILITY PLAN

No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

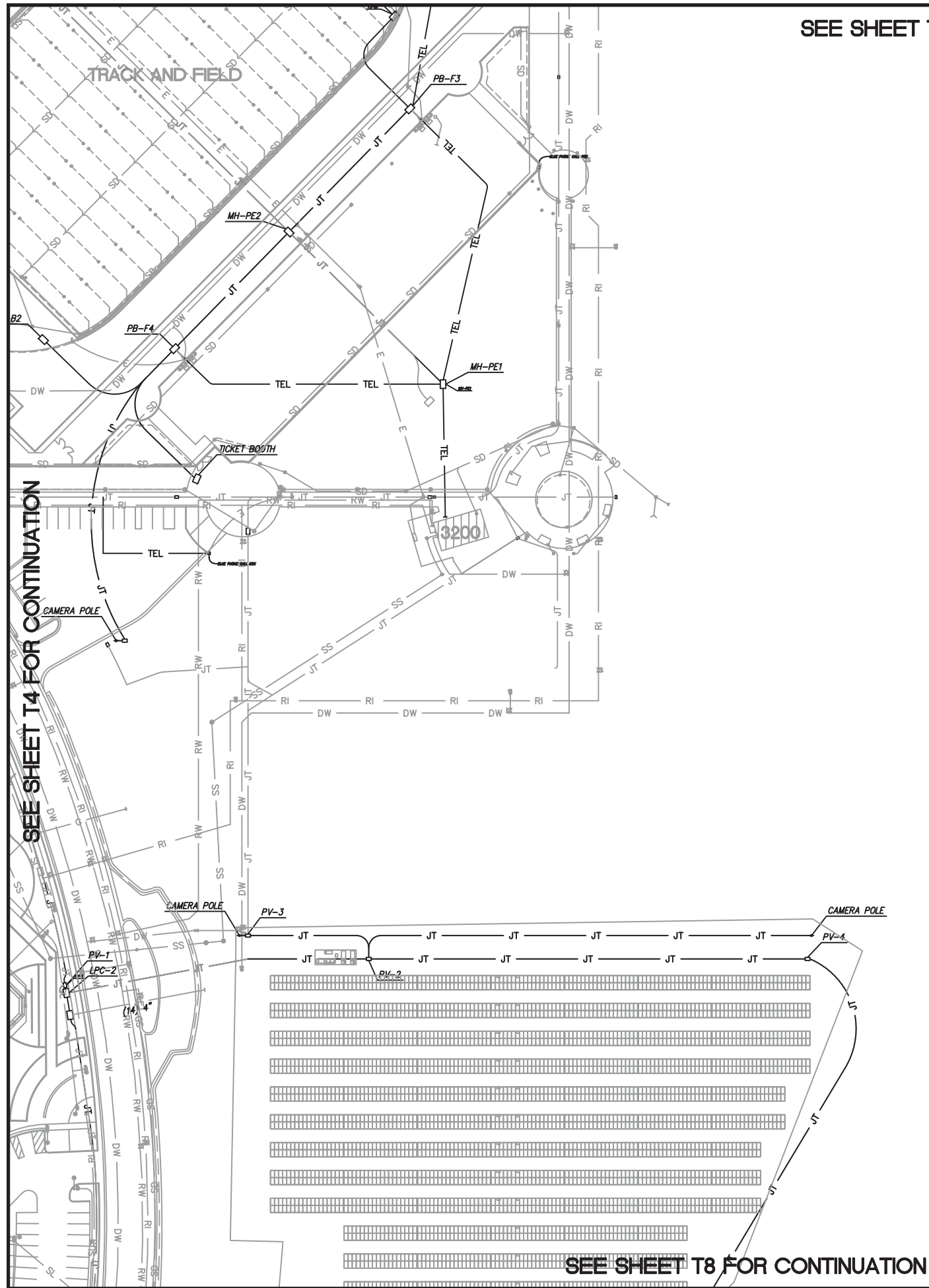
DATE: 10/26/12
SCALE: 1"=100'
DRAWN BY: GL
APPROVED BY: MAK
SANDS DRAWING No: 612032

SHEET

T4

OF 106 SHEETS

SEE SHEET T7 FOR CONTINUATION



SEE SHEET T2 FOR CONTINUATION

SEE SHEET T4 FOR CONTINUATION

SEE SHEET T8 FOR CONTINUATION



UTILITY PLAN

No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

DATE: 10/26/12
 SCALE: 1"=100'
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.: 612032

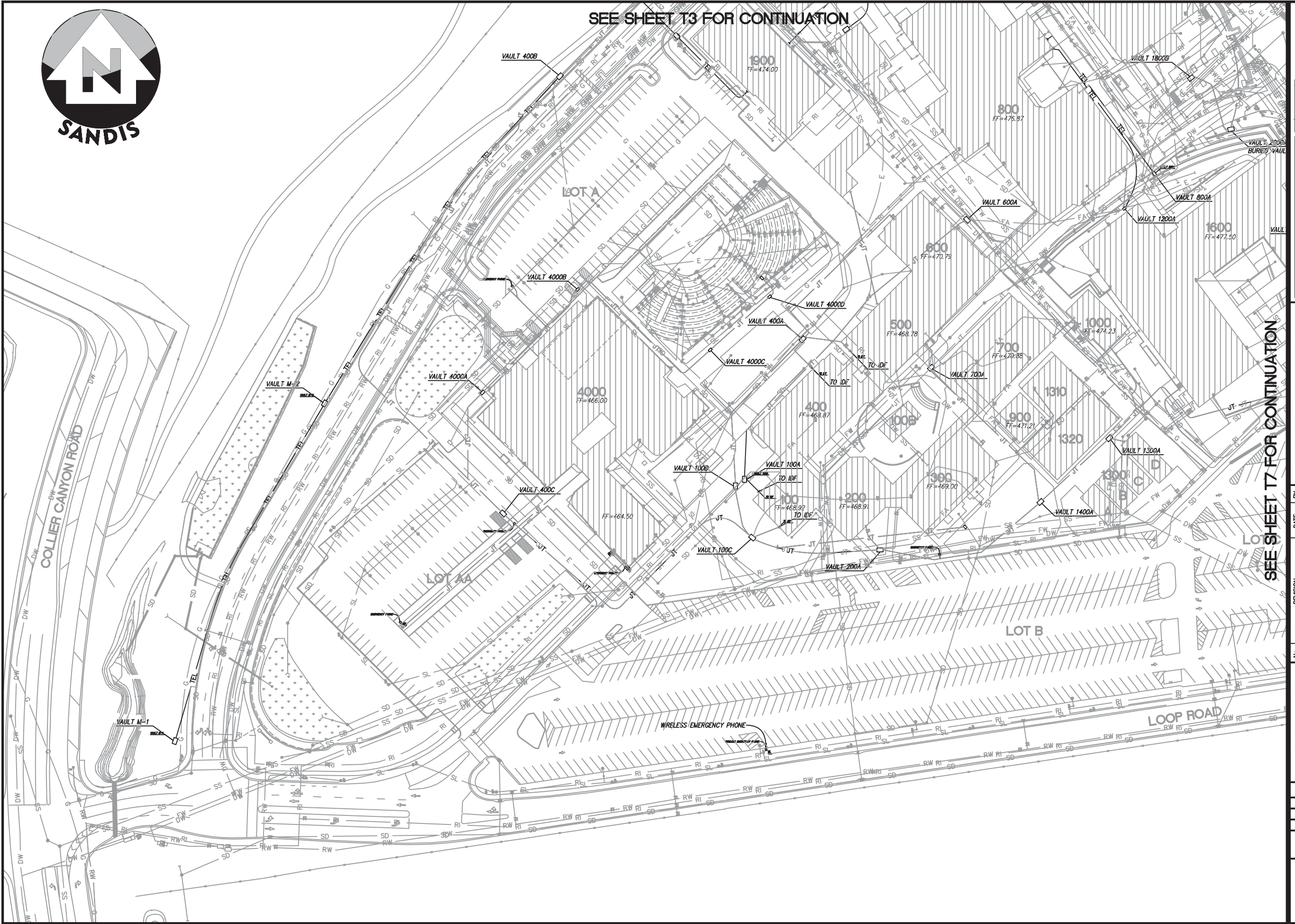
SHEET

T5

OF 106 SHEETS



SEE SHEET T3 FOR CONTINUATION



SEE SHEET T7 FOR CONTINUATION



SANDIS CIVIL ENGINEERS PLANNERS
 1300 UNIVERSITY BLVD. SANTA CLARA, CA 95050
 (408) 287-4373

UTILITY PLAN

No.	REVISION	DATE	BY

**CAMPUS
UTILITY
SURVEY**

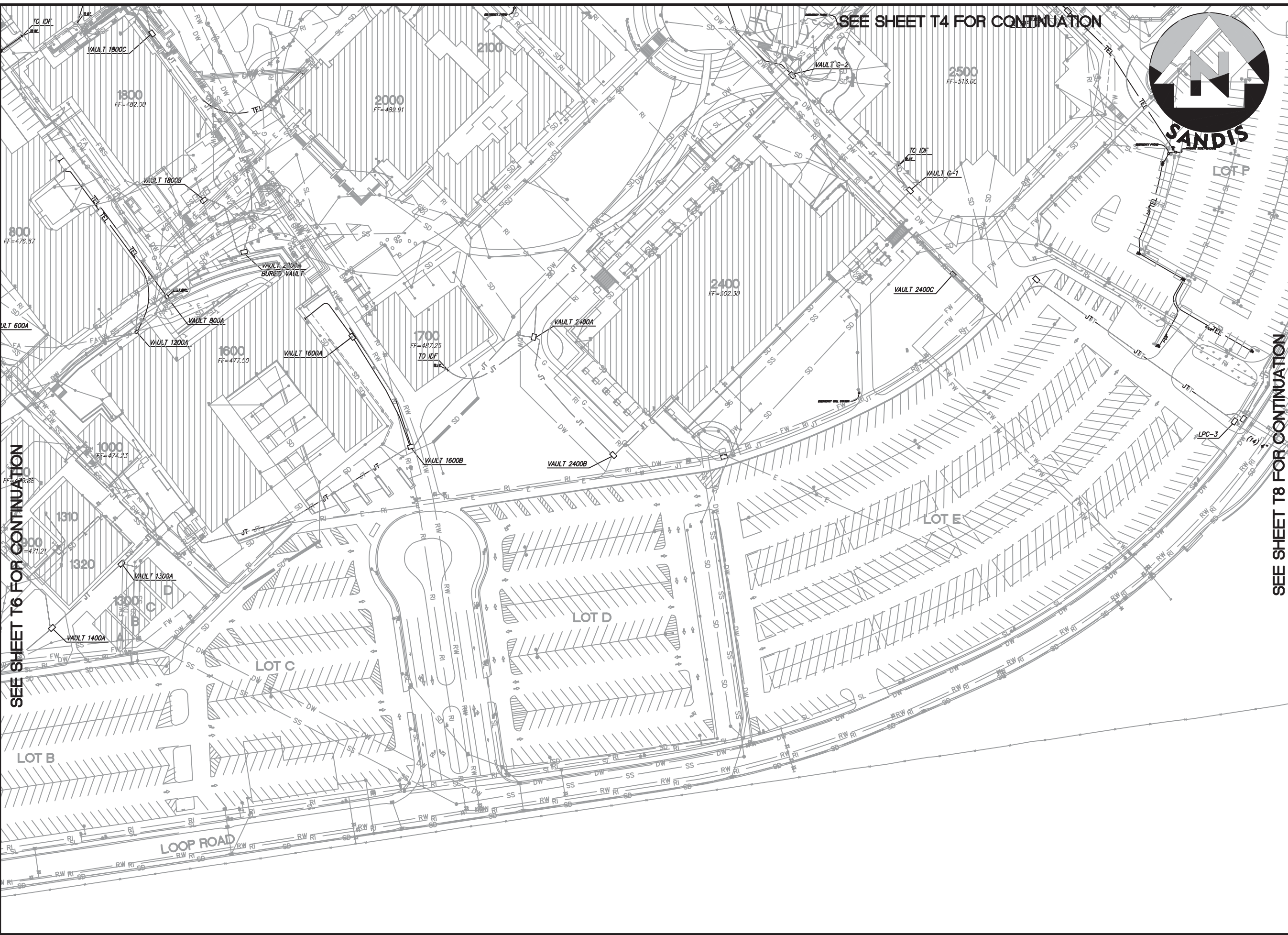
DATE: 10/26/12
 SCALE: 1"=100'
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.: 612032

SHEET
T6
 OF 106 SHEETS

SEE SHEET T4 FOR CONTINUATION



SEE SHEET T8 FOR CONTINUATION



SEE SHEET T6 FOR CONTINUATION

UTILITY PLAN

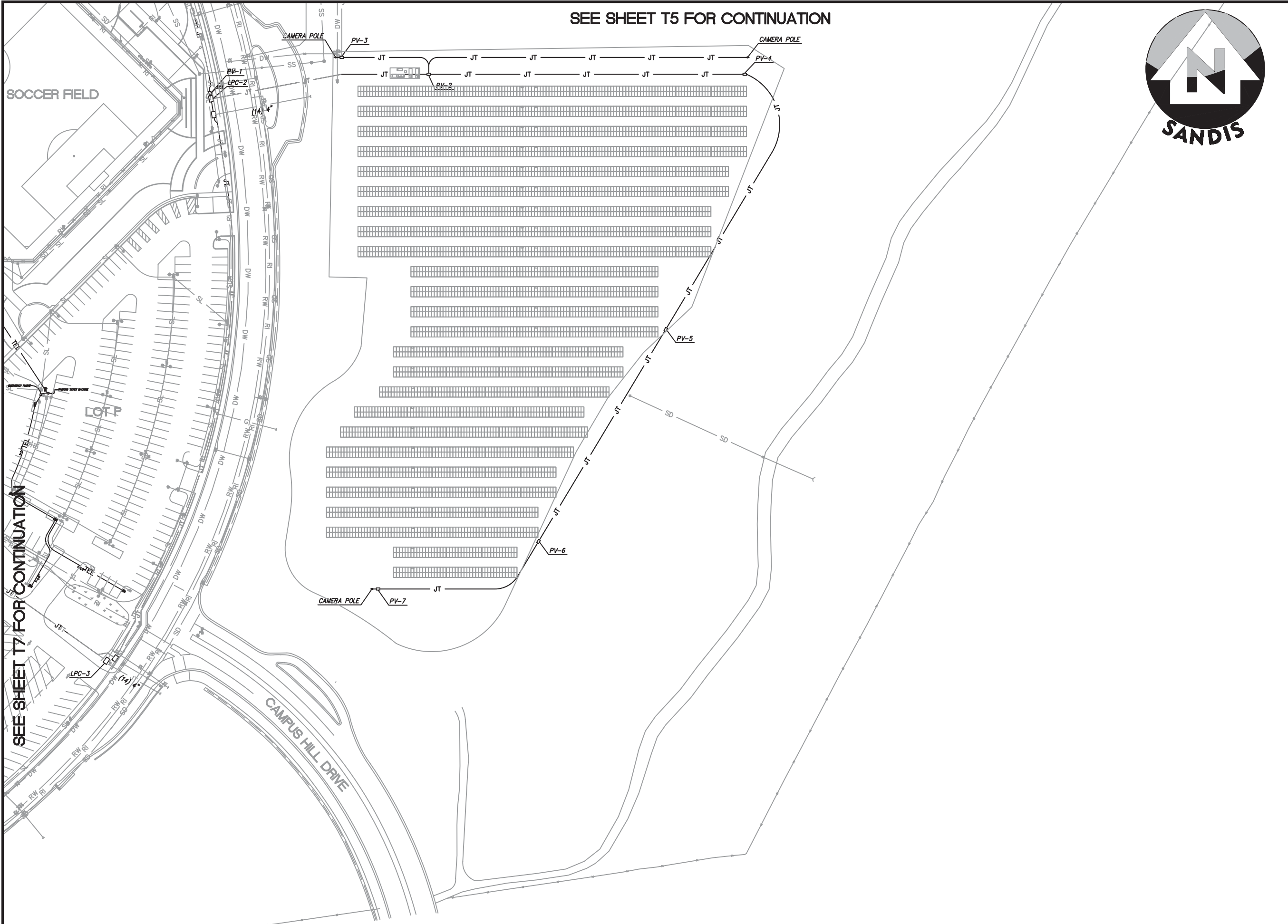
No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

DATE: 10/26/12
 SCALE: 1"=100'
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No: 612032

SHEET T7

OF 106 SHEETS



UTILITY PLAN

No.	REVISION	DATE	BY

CAMPUS UTILITY SURVEY

DATE: 10/26/12
 SCALE: 1"=100'
 DRAWN BY: GL
 APPROVED BY: MAK
 SANDS DRAWING No.: 612032

SHEET
T8

OF 106 SHEETS