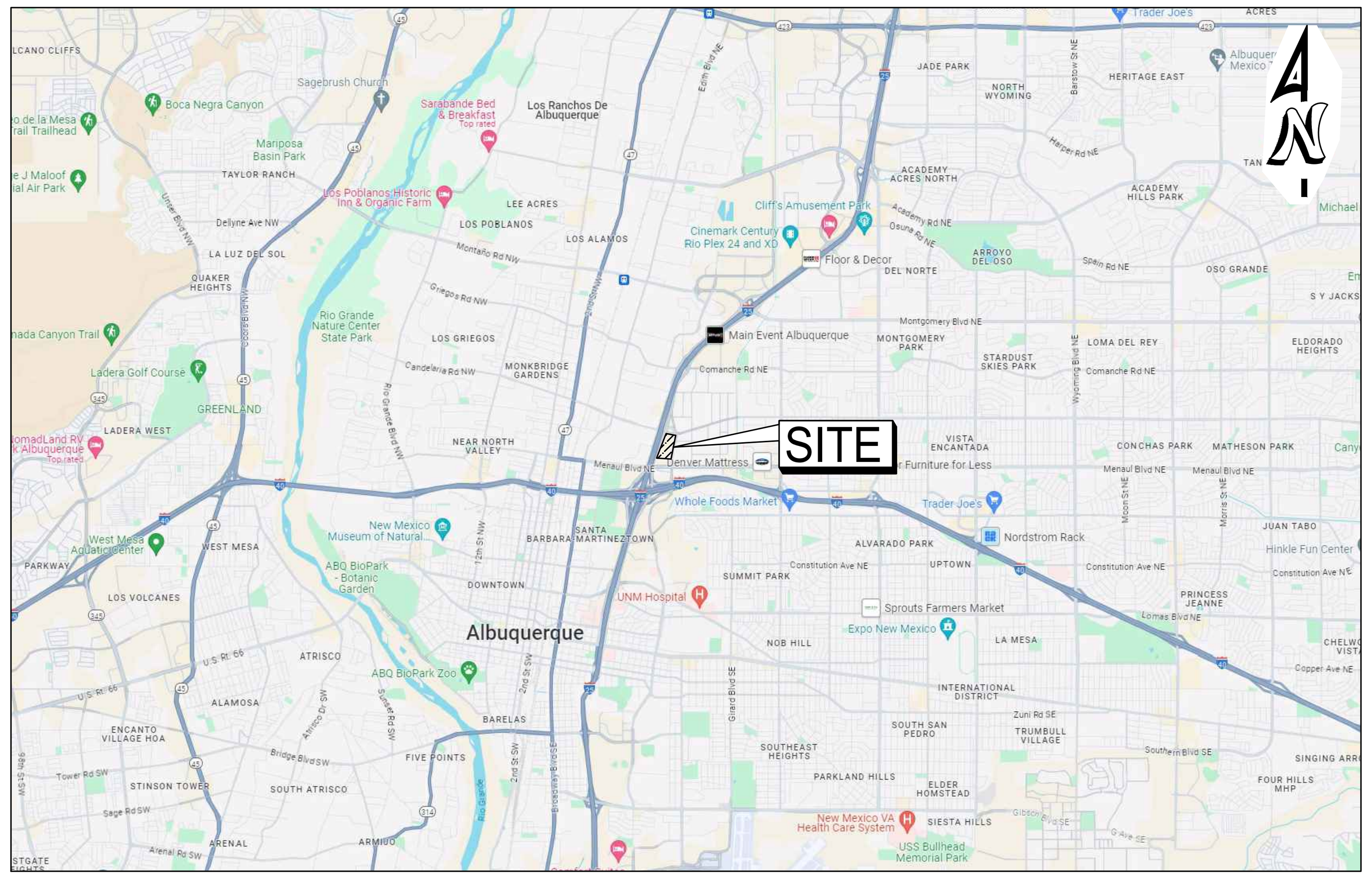
TravelCenters of America



VICINITY MAP

NOT TO SCALE

SITE IMPROVEMENT PLANS FOR

PARKING CONTROL EQUIPMENT INSTALLATION

TA FACILITY #081 NEW PARKING GATE
2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO
87107

PROJECT DATA

PROJECT NAME AND ADDRESS	
PROJECT NAME:	TA #081 PARKING CONTROL EQUIP. INSTALLATION
PROJECT ADDRESS:	2501 UNIVERSITY BLVD. NE
CITY:	ALBUQUERQUE
COUNTY:	BERNALILLO
STATE:	NEW MEXICO
PROJECT DESCRIPTION	
PROPOSAL FOR NEW GATED CONTROLLED PARKING INSTALLATION CONSISTING OF 3 ENTRANCE LANES & 2 EXIT LANES SERVICING THE TRUCK PARKING AREA.	
ZONING INFORMATION	
ZONING DESIGNATION:	
EXISTING ZONING:	NR-LM NON-RESIDENTIAL, LIGHT MANUFACTURING
PROPOSED ZONING:	NR-LM NON-RESIDENTIAL, LIGHT MANUFACTURING
LAND DISTRUBANCE	
AREA TO BE DISTURBED	9,766 S.F.±

FLOODPLAIN NOTE

SUBJECT PARCEL LIES WITHIN:

ZONE X: AREAS OF MINIMAL FLOOD HAZARD

AS SHOWN ON FLOOD INSURANCE RATE MAP COMMUNITY - PANEL NUMBERS 35001C0332G, & 35001C0351H PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

WETLAND NOTE

THE NATIONAL WETLAND INVENTORY MAP INDICATES THE SUBJECT PARCEL IS NOT LOCATED WITHIN A REGULATED WETLAND AREA. THE SUBJECT SITE DOES NOT CONTAIN SOIL AREAS WHICH INCLUDE WETLAND SOILS. FURTHERMORE, VISUAL INSPECTION INDICATES THE WETLANDS DO NOT EXIST ON THE PROPOSED PROJECT SITE.

CURRENT PROPERTY OWNER

TA OPERATING CORPORATION
24601 CENTER RIDGE ROAD
WESTLAKE, OH 44145-5634

PARCEL INFO:
PARCEL UPC: 101505942834810112
Lat: 35.11108° N
Long: 106.62500° W

CIVIL SHEET SET

Sheet Number	Sheet Title	Sheet Revision Number	Sheet Revision Date
CS	TITLE SHEET	1	8/1/2024
D1.0	DEMOLITION PLAN	1	8/1/2024
C1.0	OVERALL SITE PLAN	1	8/1/2024
C1.1	SITE PLAN	1	8/1/2024
C2.0	SITE GRADING PLAN	1	8/1/2024
E1.0	CONDUIT PLAN	1	8/1/2024
E1.1	ELECTRICAL DETAILS	0	6/10/2024
E1.2	ELECTRICAL DETAILS	0	6/10/2024
E1.3	ELECTRICAL DETAILS	0	6/10/2024
E1.4	ELECTRIC CABLE SCHEDULE	0	6/10/2024
E1.5	ELECTRIC CABLE SCHEDULE	0	6/10/2024
TT1.0	TRUCK TURN PLAN	1	8/1/2024
C3.0	DETAILS & SPECIFICATIONS	0	6/10/2024
C3.1	DETAILS & SPECIFICATIONS	0	6/10/2024
C3.2	DETAILS & SPECIFICATIONS	0	6/10/2024
C3.3	DETAILS & SPECIFICATIONS	0	6/10/2024

nm811 Know what's below. Call before you dig.

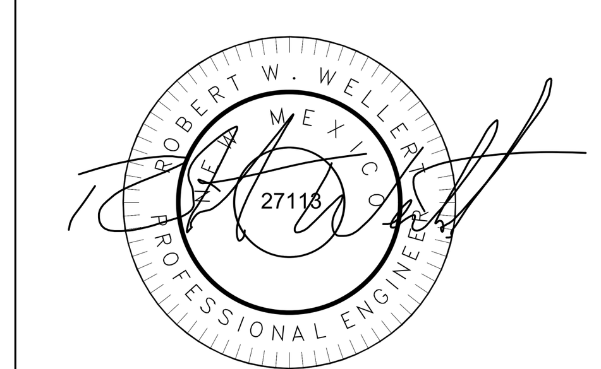
CLIENT:

TravelCenters of America
24601 CENTER RIDGE ROAD
SUITE 210
WESTLAKE, OHIO 44145

CONSULTANT:

Wellert
ENGINEERS • SURVEYORS
5136 Beach Road • Medina, Ohio 44256
t: 330.239.2699
WWW.WELLERT.COM
CELEBRATING 40 YEARS (1980-2020)

NO.	DATE	REVISION DESCRIPTION
0	06/10/2024	ISSUED FOR PERMIT
1	08/01/2024	REVISED CONCRETE PADS AND BARRIER PLACEMENT



PROJECT TITLE:

TA FACILITY #081
NEW PARKING
GATE

SITE ADDRESS:

2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO
87107

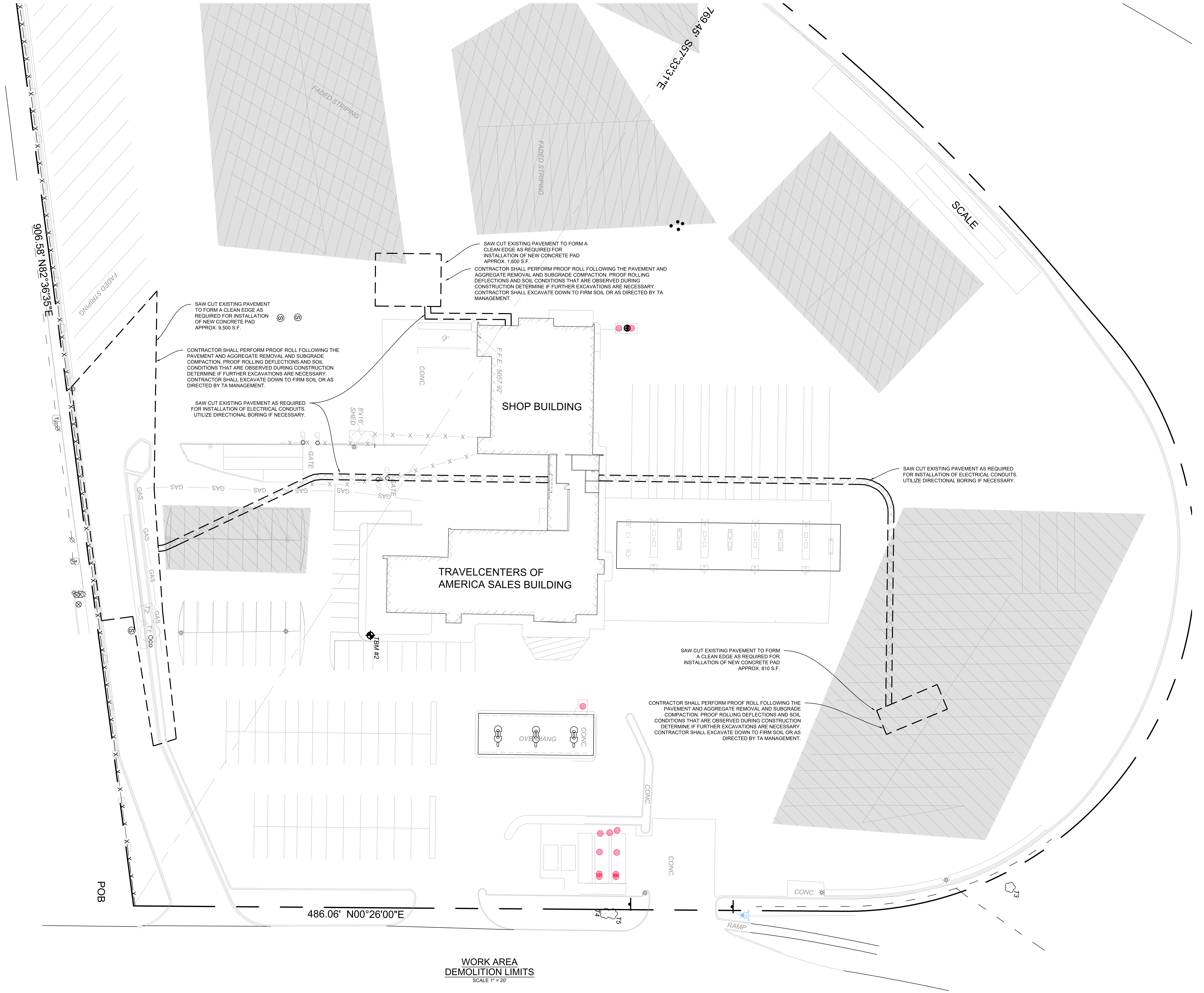
SCALE:	N/A
DATE:	06/10/2024
DESIGNED BY:	SMW
DRAWN BY:	SMW
CHECKED BY:	RWW
FILE NAME:	240117-C #081 Parking Gate.dwg
JOB NUMBER:	240117

DRAWING TITLE:

TITLE SHEET

SHEET NO:

CS



WORK AREA
DEMOLITION LIMITS
SCALE 1" = 20'

LEGEND

SAW CUT EXISTING PAVEMENT	
SAW CUT EXISTING PAVEMENT FOR CONDUIT INSTALLATION	
AREA OF STRIPING REMOVAL	

NORTH

0 10 20 40
SCALE (IN FEET)
1 inch = 20 ft.

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ROBERT W. WELLERT NEW MEXICO 27113 PROFESSIONAL ENGINEER

PROJECT TITLE:

TA FACILITY #081
NEW PARKING GATE
NEW PARKING GATE SYSTEM

SITE ADDRESS:

2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO
87107

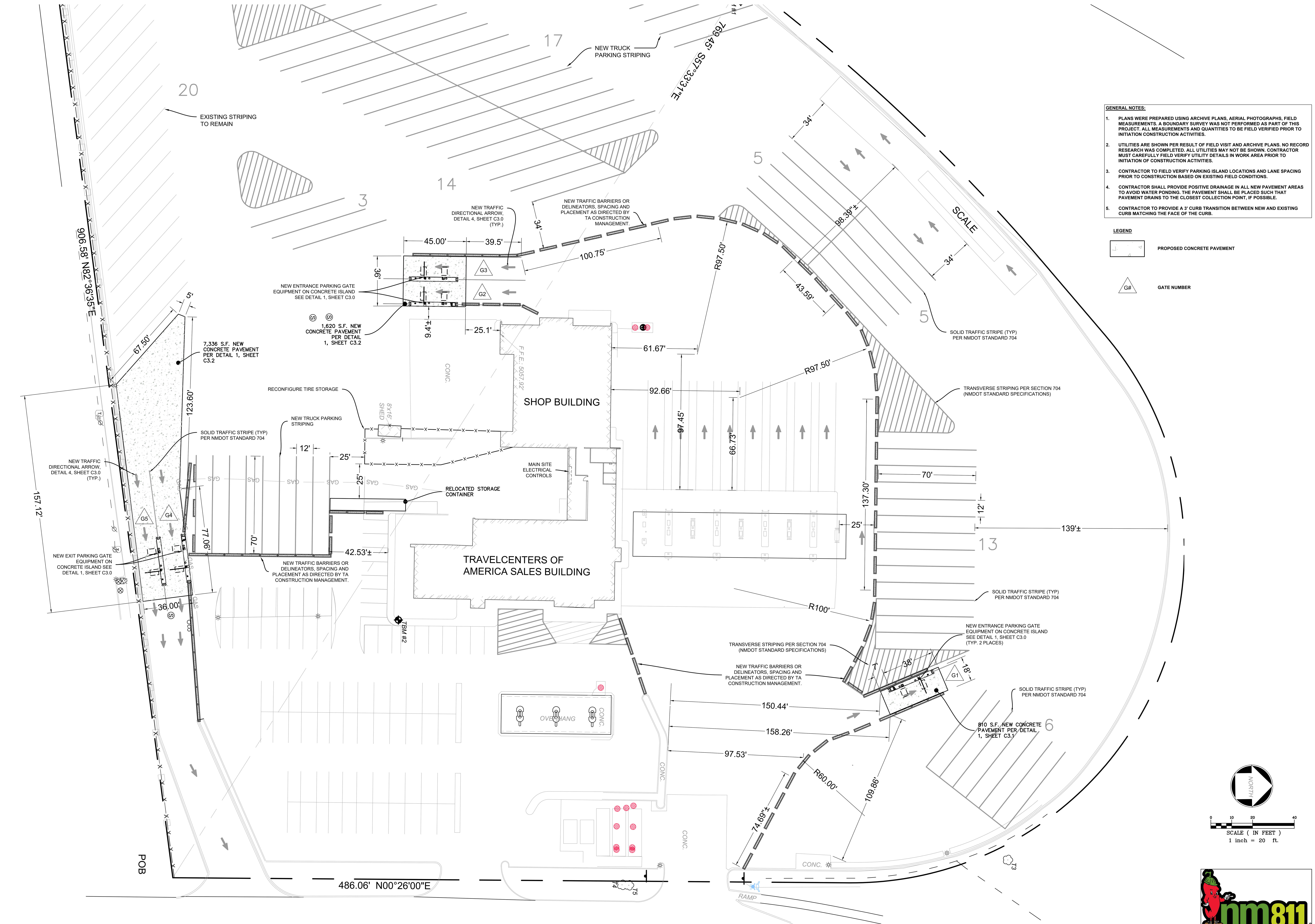
SCALE:	1" = 20'
DATE:	06/10/2024
DESIGNED BY:	SMW
DRAWN BY:	SMW
CHECKED BY:	RWW
FILE NAME:	240117-C #081 Parking Gate.dwg
JOB NUMBER:	240117

DRAWING TITLE:

DEMOLITION PLAN

SHEET NO:

D1.0



WORK AREA
CONSTRUCTION LIMITS
SCALE 1" = 20'

GENERAL NOTES:

1. PLANS WERE PREPARED USING ARCHIVE PLANS, AERIAL PHOTOGRAPHS, FIELD MEASUREMENTS. A BOUNDARY SURVEY WAS NOT PERFORMED AS PART OF THIS PROJECT. ALL MEASUREMENTS AND QUANTITIES TO BE FIELD VERIFIED PRIOR TO INITIATION CONSTRUCTION ACTIVITIES.
2. UTILITIES ARE SHOWN PER RESULT OF FIELD VISIT AND ARCHIVE PLANS. NO RECORD RESEARCH WAS COMPLETED. ALL UTILITIES MAY NOT BE SHOWN. CONTRACTOR MUST CAREFULLY FIELD VERIFY UTILITY DETAILS IN WORK AREA PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES.
3. CONTRACTOR TO FIELD VERIFY PARKING ISLAND LOCATIONS AND LANE SPACING PRIOR TO CONSTRUCTION BASED ON EXISTING FIELD CONDITIONS.
4. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL NEW PAVEMENT AREAS TO AVOID WATER PONDING. THE PAVEMENT SHALL BE PLACED SUCH THAT PAVEMENT DRAINS TO THE CLOSEST COLLECTION POINT, IF POSSIBLE.
5. CONTRACTOR TO PROVIDE A 3' CURB TRANSITION BETWEEN NEW AND EXISTING CURB MATCHING THE FACE OF THE CURB.

LEGEND

PROPOSED CONCRETE PAVEMENT

G# GATE NUMBER

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PROJECT TITLE:
TA FACILITY #081
NEW PARKING GATE
NEW PARKING GATE SYSTEM

SITE ADDRESS:
2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87107

SCALE: 1" = 20'
DATE: 06/10/2024
DESIGNED BY: SMW
DRAWN BY: SMW
CHECKED BY: RWW
FILE NAME: 240117-C #081 Parking Gate.dwg
JOB NUMBER: 240117

DRAWING TITLE:
OVERALL SITE PLAN

SHEET NO:
C1.0

GENERAL NOTES:

1. PLANS WERE PREPARED USING ARCHIVE PLANS, AERIAL PHOTOGRAPHS, FIELD MEASUREMENTS. A BOUNDARY SURVEY WAS NOT PERFORMED AS PART OF THIS PROJECT. ALL MEASUREMENTS AND QUANTITIES TO BE FIELD VERIFIED PRIOR TO INITIATION CONSTRUCTION ACTIVITIES.
2. UTILITIES ARE SHOWN PER RESULT OF FIELD VISIT AND ARCHIVE PLANS. NO RECORD RESEARCH WAS COMPLETED. ALL UTILITIES MAY NOT BE SHOWN. CONTRACTOR MUST CAREFULLY FIELD VERIFY UTILITY DETAILS IN WORK AREA PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES.
3. CONTRACTOR TO FIELD VERIFY PARKING ISLAND LOCATIONS AND LANE SPACING PRIOR TO CONSTRUCTION BASED ON EXISTING FIELD CONDITIONS.
4. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL NEW PAVEMENT AREAS TO AVOID WATER PONDING. THE PAVEMENT SHALL BE PLACED SUCH THAT PAVEMENT DRAINS TO THE CLOSEST COLLECTION POINT, IF POSSIBLE.
5. CONTRACTOR TO PROVIDE A 3' CURB TRANSITION BETWEEN NEW AND EXISTING CURB MATCHING THE FACE OF THE CURB.

LEGEND

PROPOSED CONCRETE PAVEMENT

G# GATE NUMBER

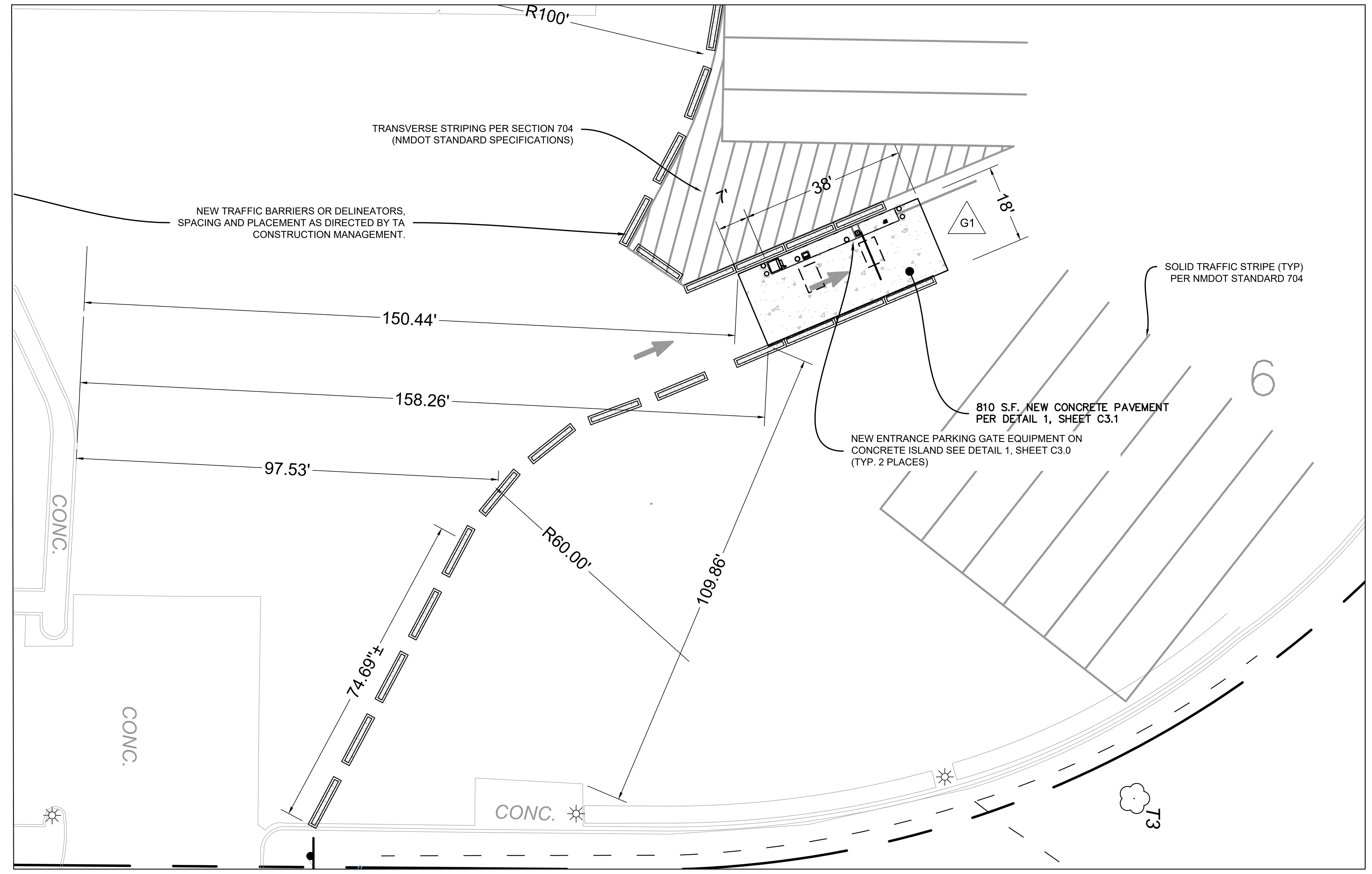
WORK AREA CONSTRUCTION LIMITS

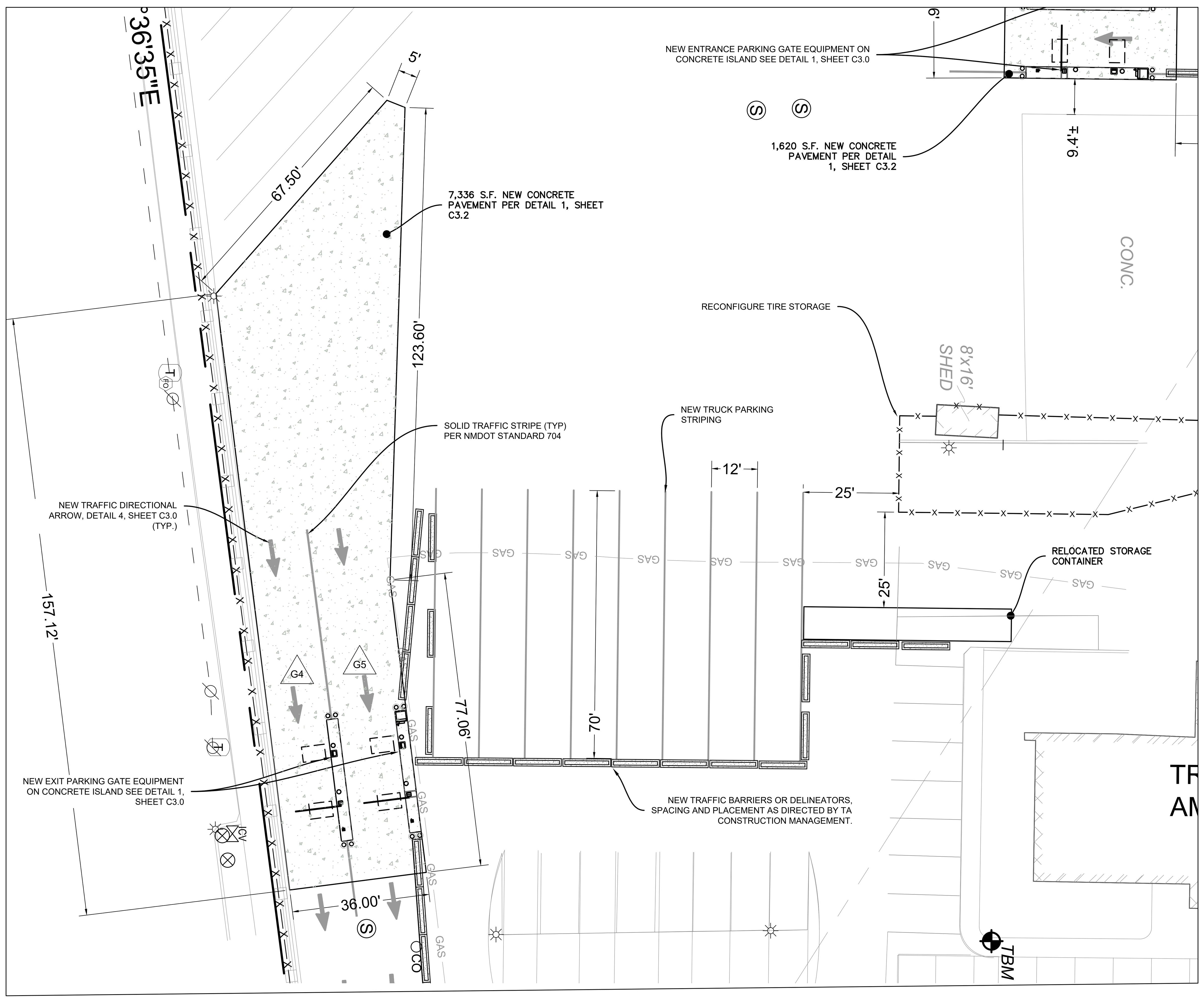
SCALE 1" = 20'

NOTE:

1. REFER TO SHEET C3.2 FOR SAWCUTTING AND JOINT DETAILS.
2. REFER TO SHEET C3.0 FOR ISLAND CONSTRUCTION.

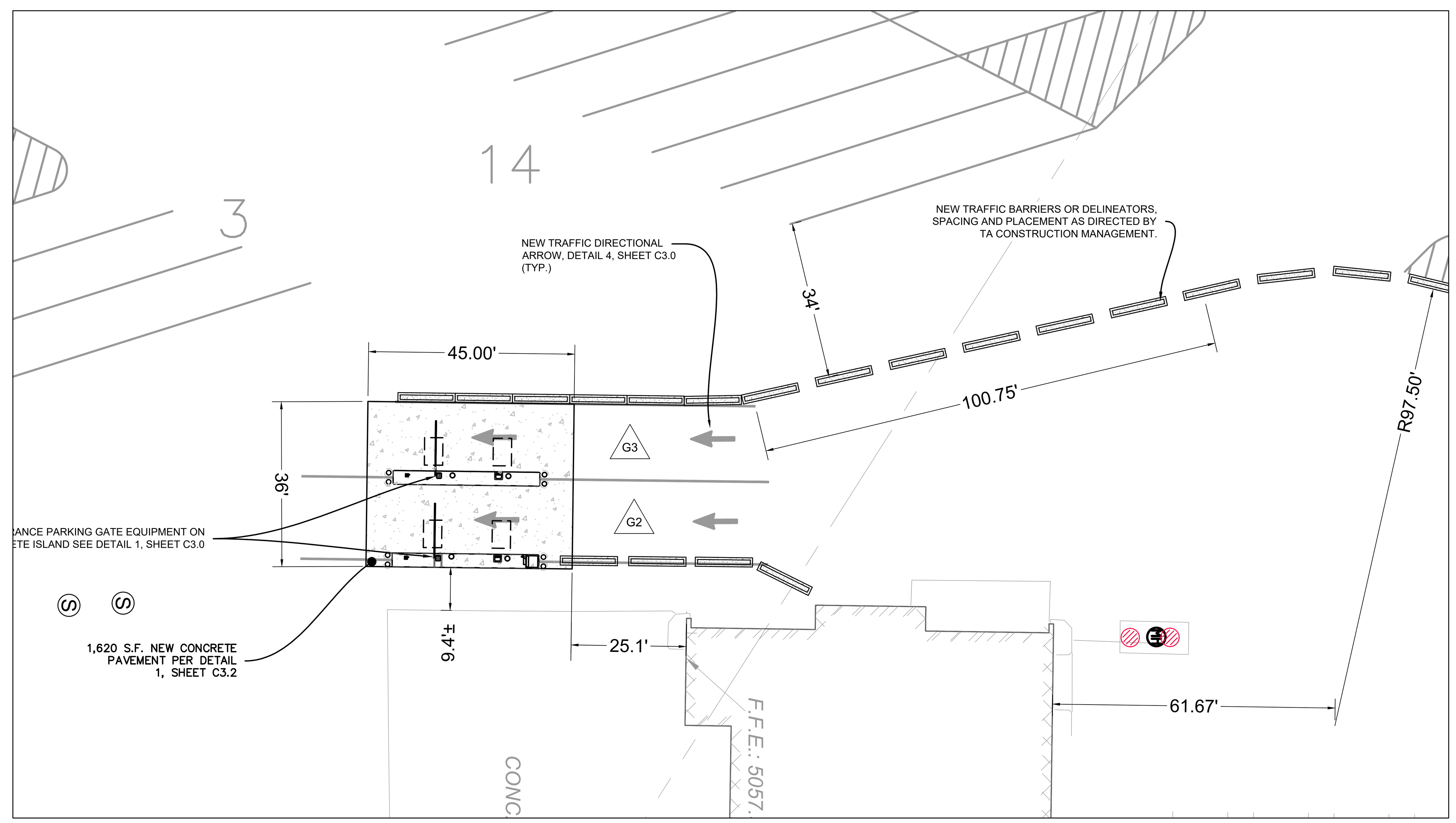
SCALE (IN FEET)
1 inch = 20 ft.





ENLARGED NORTH ENTRANCE WORK AREA PLAN

SCALE 1" = 20'



ENLARGED WEST EXIT WORK AREA PLAN

SCALE 1" = 20'

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PROJECT TITLE:

TA FACILITY #081
NEW PARKING GATE
NEW PARKING GATE SYSTEM

SITE ADDRESS:

2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87107

SCALE:	1" = 20'
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FILE NAME:	240117-C #081 Parking Gate.dwg
JOB NUMBER:	240117

DRAWING TITLE:

SITE PLAN

SHEET NO:

C1.0

WORK AREA
CONSTRUCTION LIMITS
SCALE 1" = 20'

GENERAL NOTES:

1. PLANS WERE PREPARED USING ARCHIVE PLANS, AERIAL PHOTOGRAPHS, FIELD MEASUREMENTS. A BOUNDARY SURVEY WAS NOT PERFORMED AS PART OF THIS PROJECT. ALL MEASUREMENTS AND QUANTITIES TO BE FIELD VERIFIED PRIOR TO INITIATION CONSTRUCTION ACTIVITIES.
2. UTILITIES ARE SHOWN PER RESULT OF FIELD VISIT AND ARCHIVE PLANS. NO RECORD RESEARCH WAS COMPLETED. ALL UTILITIES MAY NOT BE SHOWN. CONTRACTOR MUST CAREFULLY FIELD VERIFY UTILITY DETAILS IN WORK AREA PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES.
3. CONTRACTOR TO FIELD VERIFY PARKING ISLAND LOCATIONS AND LANE SPACING PRIOR TO CONSTRUCTION BASED ON EXISTING FIELD CONDITIONS.
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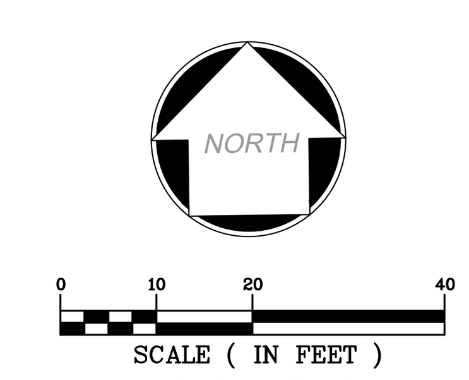
5. CONTRACTOR TO PROVIDE A 3' CURB TRANSITION BETWEEN NEW AND EXISTING CURB MATCHING THE FACE OF THE CURB.

LEGEND

PROPOSED CONCRETE PAVEMENT



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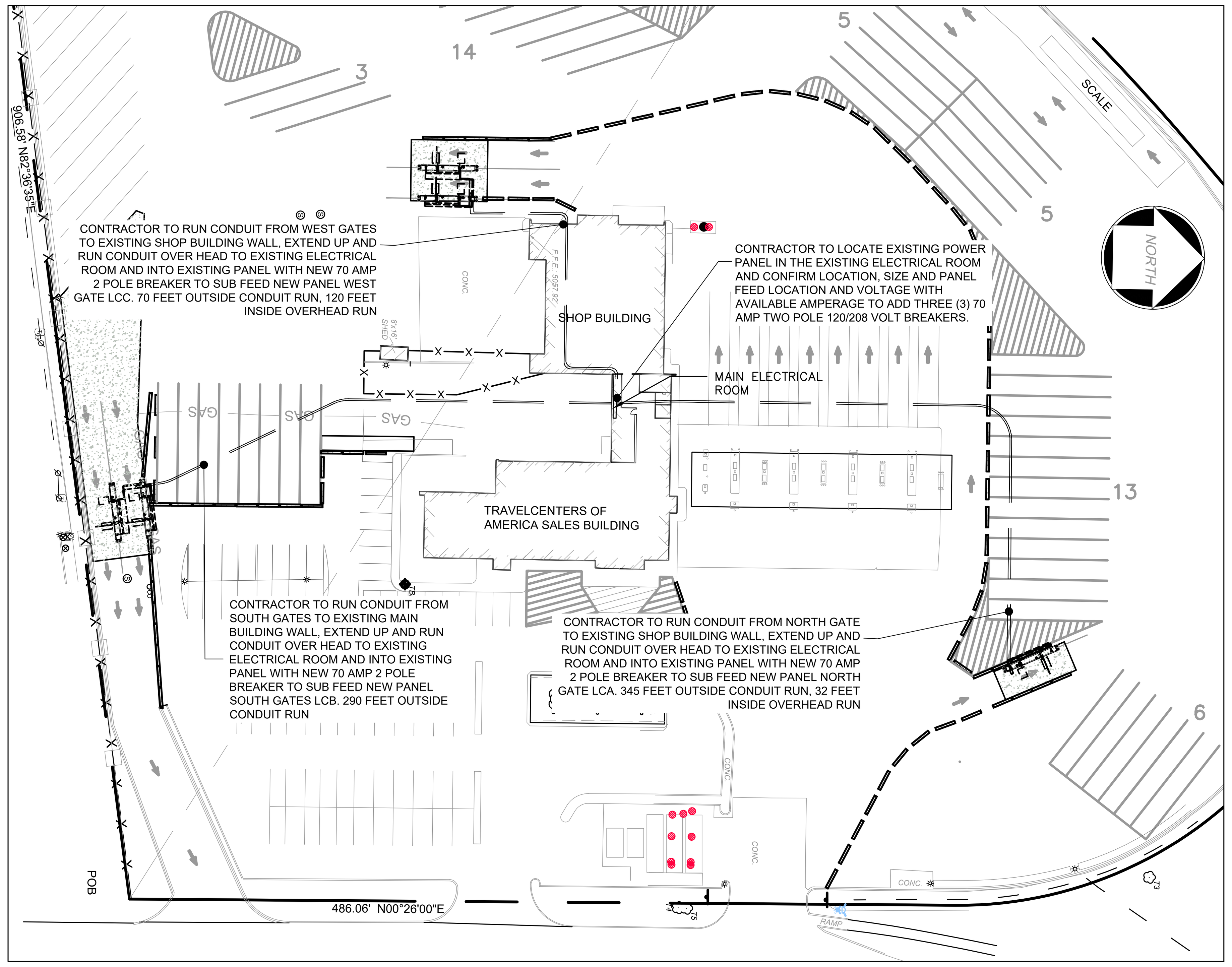
CHECKED BY: RWW
FILE NAME: 240117-C #081 Parking Gate.dwg
JOB NUMBER: 240117

DRAWING TITLE:

SITE GRADING PLAN

SHEET NO:

C2.0



WORK AREA OVERALL CONDUIT PLAN

SCALE 1" = 60'

CONDUIT SCHEDULE

CONDUIT #	DESCRIPTION and NOMINAL SIZE	WIRE COUNT PER CONDUIT	ORIGIN	TERMINATION
1	CAMERA DATA/POWER (¾")	(1) CAT6 DATA CABLE PER CONDUIT	GATE	CAMERA
2	CAMERA DATA/POWER (¾")			
3	CAMERA DATA/POWER (¾")			
4	CAMERA DATA/POWER (¾")			
5	CAMERA DATA/POWER (¾")			
6	MP-60 ENTRY STATION POWER (¾")	(3) #12 AWG CONTROL WIRING WITH (1) #12 GROUND WIRE PER CONDUIT	PNL PR-1	ENTRY LANE DEVICE
7	MP-60 ENTRY STATION POWER (¾")		PNL PR-2	
8	MP-60 ENTRY STATION POWER (¾")		PNL PR-2	
9	SW-60 EXIT STATION POWER (¾")		PNL PR-3	EXIT LANE DEVICE
10	SW-60 EXIT STATION POWER (¾")		PNL PR-3	
11	ENTRY PARKING PRO-M GATE POWER (¾")	(2) #12 AWG CONTROL WIRING WITH (1) #12 GROUND WIRE PER CONDUIT (VERIFY WIRE REQUIREMENTS FOR SENSOR PADS WITH MANUFACTURER PRIOR TO INSTALLATION)	ENTRY LANE DEVICE	GATE
12	ENTRY PARKING PRO-M GATE POWER (¾")			
13	ENTRY PARKING PRO-M GATE POWER (¾")			
14	EXIT PARKING PRO-M GATE POWER (¾")		EXIT LANE DEVICE	
15	EXIT PARKING PRO-M GATE POWER (¾")			
16	EXIT SENSOR PADS POWER (¾")	(2) #12 AWG SENSOR WIRING WITHIN LOOP AREA (CONCRETE APRON) AND (3) #12 SHIELDED WIRE TO CONTROL UNIT (VERIFY WIRE REQUIREMENTS FOR SENSOR PADS WITH MANUFACTURER PRIOR TO INSTALLATION)	EXIT LANE DEVICE/GATE	SENSOR LOOPS
17	EXIT SENSOR PADS POWER (¾")			
18	ENTRY SENSOR PADS POWER (¾")		ENTRY LANE DEVICE/GATE	
19	ENTRY SENSOR PADS POWER (¾")			
20	ENTRY SENSOR PADS POWER (¾")			
21	DATA WIRING TO CAMERA (1")	(3) CAT6 DATA CABLE PER CONDUIT	CABINET/LCA	CAMERA
22	DATA WIRING TO CAMERA (1")		CABINET/LCB	
23	DATA WIRING TO CAMERA (1")		CABINET/LCB	
24	DATA WIRING TO CAMERA (1")		CABINET/LCC	
25	DATA WIRING TO CAMERA (1")		CABINET/LCC	
26	DATA WIRING TO SW-60 EXIT STATION (1")	(3) CAT6 DATA CABLE PER CONDUIT	CABINET/LCC	EXIT LANE DEVICE
27	DATA WIRING TO SW-60 EXIT STATION (1")	(3) CAT6 DATA CABLE PER CONDUIT	CABINET/LCC	
28	DATA WIRING TO MP-60 ENTRY STATION (1")	(2) CAT6 DATA CABLE PER CONDUIT	CABINET/LCA	ENTRY LANE DEVICE
29	DATA WIRING TO MP-60 ENTRY STATION (1")	(2) CAT6 DATA CABLE PER CONDUIT	CABINET/LCB	
30	DATA WIRING TO MP-60 ENTRY STATION (1")	(2) CAT6 DATA CABLE PER CONDUIT	CABINET/LCB	
31	DATA WIRING TO CAMERA (1")	18/4 UNSHIELDED COPPER WIRE	ENTRY LANE DEVICE	CAMERA
32	DATA WIRING TO CAMERA (1")			
33	DATA WIRING TO CAMERA (1")			
34	DATA WIRING TO CAMERA (1")		EXIT LANE DEVICE	
35	DATA WIRING TO CAMERA (1")			

CONDUIT SCHEDULE (CONT.)

CONDUIT #	DESCRIPTION and NOMINAL SIZE	WIRE COUNT PER CONDUIT	ORIGIN	TERMINATION
36	ELECTRIC CABINET POWER (1-1/4")	(3)#2 AWG & (1)#8 AWG GND - 1 1/4" PVC SCHEDULE 40 UNDERGROUND CONDUIT.	BUILDING POWER PANEL	PNL PR-1
37	ELECTRIC CABINET POWER (1-1/4")	(3)#2 AWG & (1)#8 AWG GND - 1 1/4" PVC SCHEDULE 40 UNDERGROUND CONDUIT.	BUILDING POWER PANEL	PNL PR-2
38	ELECTRIC CABINET POWER (1-1/4")	(3)#2 AWG & (1)#8 AWG GND - 1 1/4" PVC SCHEDULE 40 UNDERGROUND CONDUIT.	BUILDING POWER PANEL	PNL PR-3
39	DATA WIRING (1")	6-STRAND SINGLEMODE FIBER OPTIC CABLE	BUILDING NETWORK PANEL	CABINET/LCA
40	DATA WIRING (1")			CABINET/LCB
41	DATA WIRING (1")			CABINET/LCC
42	ELECTRIC CABINET POWER (1")	2-10 AWG & 1-10 AWG GND - 1" PVC SCHEDULE 40 UNDERGROUND CONDUIT.	PNL PR-1	CABINET/LCA
43	ELECTRIC CABINET POWER (1")		PNL PR-2	CABINET/LCB
44	ELECTRIC CABINET POWER (1")		PNL PR-3	CABINET/LCC

*ELECTRICIAN TO DETERMINE REQUIRED WIRE AND CONDUIT SIZE BASED ON LENGTH OF RUN FROM ELECTRICAL CABINET TO BUILDING ELECTRICAL PANEL.

ELECTRICIAN TO VERIFY REQUIRED WIRE & CONDUIT SIZE BASED ON LENGTH OF RUN FROM ELECTRICAL CABINET TO BUILDING ELECTRICAL PANEL.

GENERAL NOTES

A. REFER TO WELLERT CORPORATION'S CIVIL PLANS FOR ADDITIONAL DETAILS.

B. THE ELECTRICAL INSTALLATION MUST MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ANY APPLICABLE STATE OR LOCAL CODES, AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

C. CONDUIT PENETRATIONS THRU ISLANDS AND BUILDINGS ARE DEPICTED FOR REFERENCE ONLY. ACTUAL LOCATIONS OF PENETRATIONS SHALL BE PER EQUIPMENT MANUFACTURER SPECIFICATIONS, REFERENCED DETAILS AND FIELD DETERMINATIONS.

D. ALL WIRING AND CONDUIT FOR POWER AND DATA, AND RELATED EQUIPMENT TO BE PROVIDED AND INSTALLED BY PROJECT ELECTRICIAN. FOR EACH ELECTRICAL RACEWAY SYSTEM INDICATED, PROVIDE A COMPLETE ASSEMBLY OF CONDUIT WITH FITTINGS INCLUDING, BUT NOT NECESSARILY LIMITED TO, CONNECTORS, NIPPLES, COUPLINGS, EXPANSION FITTINGS, BUSHINGS, LOCKOUTS AND OTHER COMPONENTS AND ACCESSORIES AS NEEDED TO FORM A COMPLETE SYSTEM FOR THE TYPE INDICATED AND AS REQUIRED BY NFPA 70, LATEST EDITION.

E. ALL CONDUITS SHALL BE RIGID NON-METALLIC CONDUIT (PVC COMPLYING WITH NFPA 70 ARTICLE 352) WHERE PERMITTED BY NFPA 70.

F. PROVIDE GROUNDING AND BONDING OF ALL METAL RACEWAYS, THE METAL ARMOR OR METALLIC SHEATH ON CABLES, AND ALL NON-CURRENT-CARRYING METAL PARTS REGARDLESS OF VOLTAGE AS REQUIRED BY NFPA 70. GROUNDING AND BONDING SHALL COMPLY WITH N.E.C. REQUIREMENTS.

G. VERIFY THE EXACT LOCATION AND MOUNTING HEIGHTS OF WALL, FLOOR AND CEILING MOUNTED DEVICES AND EQUIPMENT WITH THE EXISTING CONDITIONS BEFORE ROUGH-IN OF THE ELECTRICAL WORK. DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO ROUGH-IN.

H. COORDINATE THE ELECTRICAL WORK WITH ALL TRADES ON SITE AND WITH THE OWNER'S REPRESENTATIVE. REFER TO THE CIVIL PLANS TO PROPERLY PLAN AND INSTALL THE ELECTRICAL SYSTEMS AND EQUIPMENT.

I. ALL WIRE FOR POWER AND CONTROL SYSTEMS SHALL BE 600 VOLT THHN-THWN, 90 DEGREE INSULATED AND SHALL BE COPPER. ALL WIRE FOR COMMUNICATIONS SYSTEMS SHALL BE COPPER.

J. INDOOR WIRING NOT SUBJECT TO PHYSICAL DAMAGE SHALL BE RUN IN EMT THIN-WALL CONDUIT. RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT SHALL BE INSTALLED IN LOCATIONS WHERE SUBJECT TO SEVERE PHYSICAL DAMAGE. TYPE MC CABLE MAY BE INSTALLED CONCEALED WITHIN WALL AND CEILING SPACES FOR BRANCH CIRCUIT WIRING.

K. UNDERGROUND WIRING SHALL BE INSTALLED IN PVC SCHEDULE 40 CONDUIT AND AT 24" MINIMUM BELOW DRIVES AND PARKING SURFACES. TRANSITION TO RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT WHERE TRANSITIONING FROM BELOW GRADE TO ABOVE GRADE.

L. FIRE SEAL OPENINGS AROUND ALL CONDUIT PENETRATIONS TO BUILDINGS. PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE SEALED WITH LISTED FIRE RATED MATERIALS.

M. ALL COMPONENTS FOR ELECTRICAL EQUIPMENT TO BE INSTALLED WILL BE UL RATED, BEAR THE UL SEAL AND BE STATE APPROVED.

N. PANEL DIRECTORIES ARE REQUIRED TO BE UPDATED BY THE ELECTRICAL CONTRACTOR PRIOR TO OBTAINING FINAL OCCUPANCY. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO TRACE EXISTING BRANCH CIRCUIT WIRING THAT IS TO BE MODIFIED AS PART OF THIS CONTRACT, UPDATE THE PANEL DIRECTORIES IN THE FIELD, AND MEASURE LOAD READINGS ON THE PANELS TO ENSURE THAT NO PANEL OR BRANCH CIRCUIT SERVING THE SPACE IS OVERLOADED.

O. PROVIDE LABELS FOR NEW PANEL BOARDS TO WARN OF POTENTIAL ARC FLASH HAZARDS IN ACCORDANCE WITH NEC 110.16(A).

P. PROVIDE LABEL TO INDICATE MAXIMUM AVAILABLE FAULT CURRENT AT SERVICE EQUIPMENT IN ACCORDANCE WITH NEC 110.24(A).

Q. DO NOT INSTALL ANY NEW ELECTRICAL EQUIPMENT IN EXISTING HAZARDOUS LOCATIONS.

R. PARKING SYSTEMS OVER 300 FEET FROM THE NETWORK SYSTEM, THE CAT6 CABLE WILL REQUIRE A SIGNAL EXTENDER TO BE INSTALLED, CONTRACTOR TO VERIFY REQUIREMENTS AND INSTALL EQUIPMENT AS NECESSARY TO CORRECT FUNCTION.

S. FIBER OPTIC CABLE TO CAT 6 CONVERTER WILL BE REQUIRED, USE TRENDNET (T1-F11SFP) WITH POWER TRANSFORMER TRENDNET TI-M6024, AND FIBER OPTIC CONNECTOR TRENDNET TI-MGBSX.

T. TIBA PARKING SYSTEMS #MP-60 ENTRY STATION. 120/208V, 1 PHASE, 0.8 KW. PROVIDE AND INSTALL 3-12 AWG & 1-12 AWG GND - ¾" C. FOR POWER TO EQUIPMENT. ALSO PROVIDE AND INSTALL 1" CONDUIT FOR LOW VOLTAGE CABLING TO EQUIPMENT. COORDINATE EXACT LOCATION WITH CIVIL PLANS AND OWNER, AND COORDINATE EXACT ELECTRICAL CONNECTIONS, WIRING, AND LOW VOLTAGE REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. REFER TO CIVIL PLANS AND CONDUIT ROUTING PLAN BY WELLERT CORPORATION FOR ADDITIONAL INFORMATION.

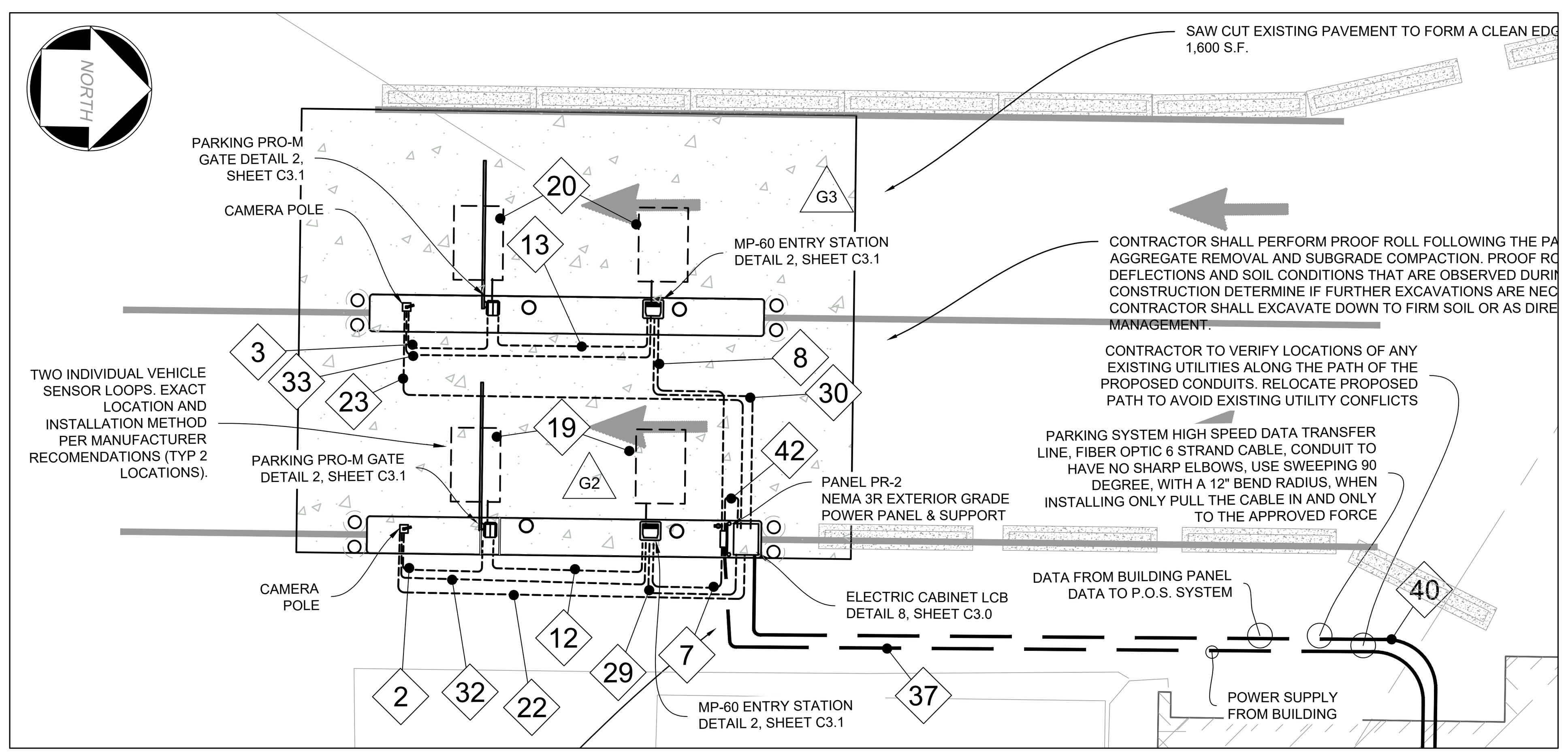
U. TIBA PARKING SYSTEMS #PRO-M-T PARKING GATE. 120/208V, 1 PHASE, 0.1 KW. PROVIDE AND INSTALL 3-12 AWG & 1-12 AWG GND - ¾" C. FOR POWER TO EQUIPMENT. ALSO PROVIDE AND INSTALL 1" CONDUIT FOR LOW VOLTAGE CABLING TO EQUIPMENT. COORDINATE EXACT LOCATION WITH CIVIL PLANS AND OWNER, AND COORDINATE EXACT ELECTRICAL CONNECTIONS, WIRING, AND LOW VOLTAGE REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. REFER TO CIVIL PLANS AND CONDUIT ROUTING PLAN BY WELLERT CORPORATION FOR ADDITIONAL INFORMATION.

V. VEHICLE SENSOR LOOP. 120V, 1 PHASE, 0.2 KW PRESUMED. PROVIDE AND INSTALL 3-12 AWG - ¾" C. FOR POWER TO EQUIPMENT. COORDINATE EXACT LOCATION WITH CIVIL PLANS AND OWNER, AND COORDINATE EXACT ELECTRICAL CONNECTIONS AND WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. REFER TO CIVIL PLANS AND CONDUIT ROUTING PLAN BY WELLERT CORPORATION FOR ADDITIONAL INFORMATION.

W. CAMERA POLE. 12V,DC, 0.2 KW PRESUMED. PROVIDE AND INSTALL CAT6 CABLE - 3/4" C. FOR POWER TO EQUIPMENT. ALSO, PROVIDE AND INSTALL 1" CONDUIT FOR LOW VOLTAGE CABLING TO EQUIPMENT. COORDINATE EXACT LOCATION WITH CIVIL PLANS AND OWNER, AND COORDINATE EXACT ELECTRICAL CONNECTIONS, WIRING, AND LOW VOLTAGE REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. REFER TO CIVIL PLANS AND CONDUIT ROUTING PLAN BY WELLERT CORPORATION FOR ADDITIONAL INFORMATION.

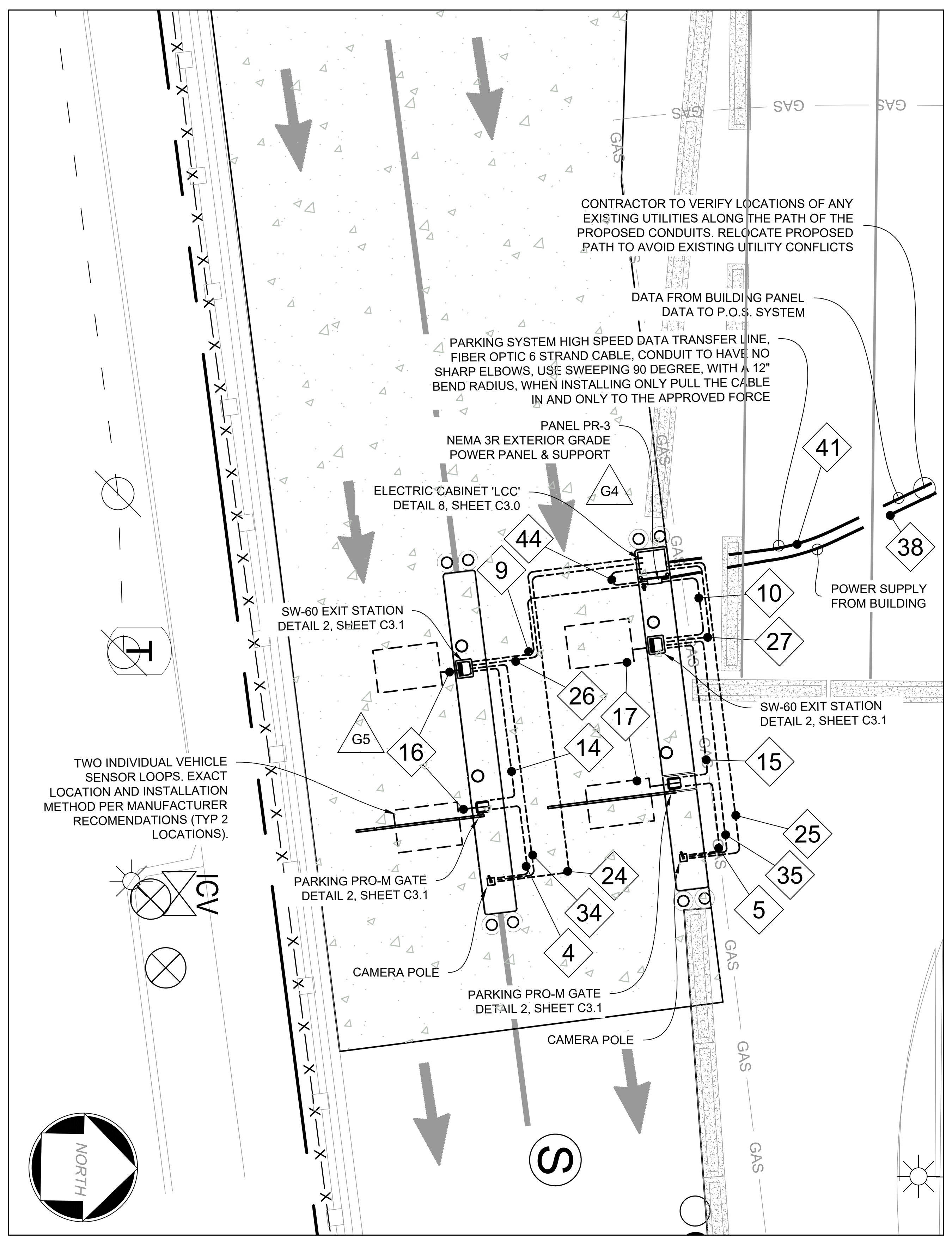
X. TIBA PARKING SYSTEMS #SW-60 EXIT STATION. 120/208V, 1 PHASE, 0.8 KW. PROVIDE AND INSTALL 3-12 AWG & 1-12 AWG GND - ¾" C. FOR POWER TO EQUIPMENT. ALSO PROVIDE LOW VOLTAGE CABLING TO EQUIPMENT. COORDINATE EXACT LOCATION WITH CIVIL PLANS AND OWNER, AND COORDINATE EXACT ELECTRICAL CONNECTIONS, WIRING, AND LOW VOLTAGE REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. REFER TO CIVIL PLANS AND CONDUIT ROUTING PLAN BY WELLERT CORPORATION FOR ADDITIONAL INFORMATION.

Y. PROPOSED CONDUIT ROUTING TO EXISTING ELECTRICAL ROOM. ROUTE CONDUITS OVERHEAD IN EXISTING BUILDING, AND COORDINATE EXACT ROUTING IN FIELD WITH EXISTING CONDITIONS PRIOR TO ROUGH-IN.



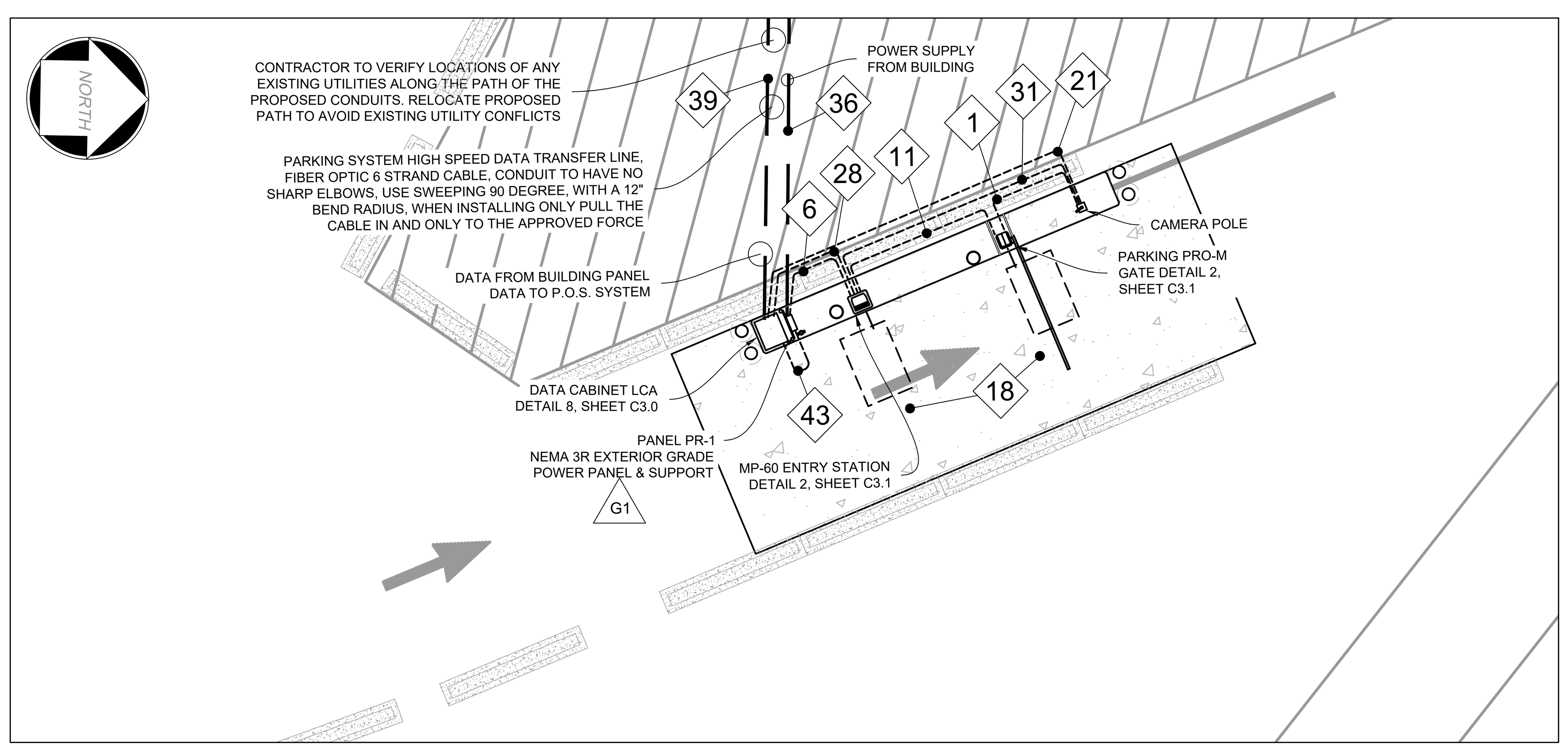
ENLARGED WEST ENTRANCE (GATES 2 & 3) WORK AREA ROUTING CONDUIT PLAN

SCALE 1" = 10'



ENLARGED SOUTH EXIT (GATES 4 & 5) WORK AREA ROUTING CONDUIT PLAN

SCALE 1" = 10'



ENLARGED NORTH ENTRANCE (GATE 1)
WORK AREA ROUTING CONDUIT PLAN

SCALE 1" = 10'

CLIENT:

TravelCenters of America
24601 CENTER RIDGE ROAD
SUITE 210
WESTLAKE, OHIO 44145

CONSULTANT:

Wellert
ENGINEERS • SURVEYORS
5136 Beach Road • Medina, Ohio 44256
t: 330.239.2699
WWW.WELLERT.COM
CELEBRATING 40 YEARS (1980-2020)

NO.	DATE	REVISION DESCRIPTION
0	06/10/2024	ISSUED FOR PERMIT
1	08/01/2024	REVISED CONCRETE PADS AND BARRIER PLACEMENT

ROBERT W. WELLERT
NEW MEXICO
27113
PROFESSIONAL ENGINEER

PROJECT TITLE

TA FACILITY #081
NEW PARKING GATE
NEW PARKING GATE SYSTEM

SITE ADDRESS:

2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO
87107

SCALE:	AS STATED
DATE:	06/10/2024
DESIGNED BY:	SMW
DRAWN BY:	SMW
CHECKED BY:	RWW
FILE NAME:	240117-C #081 Parking Gate.dwg
JOB NUMBER:	240117

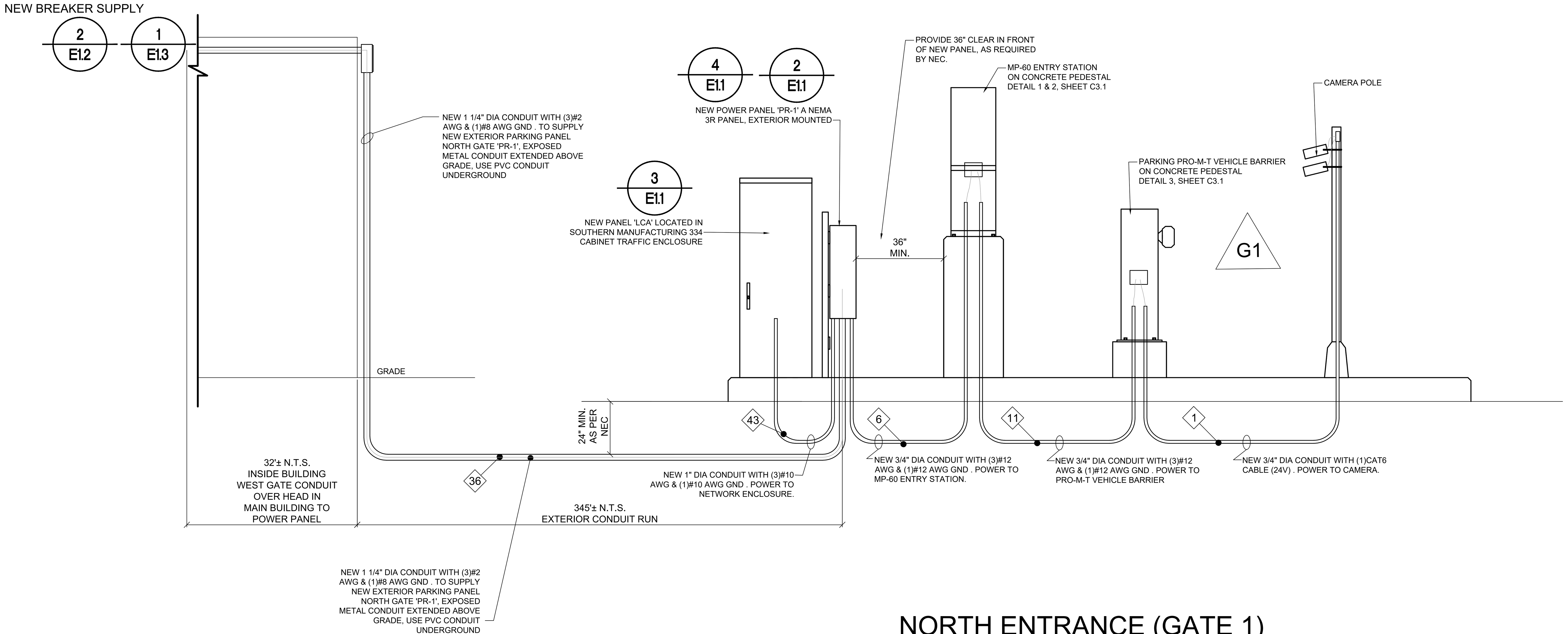
DRAWING TITLE:

CONDUIT PLAN

SHEET NO:

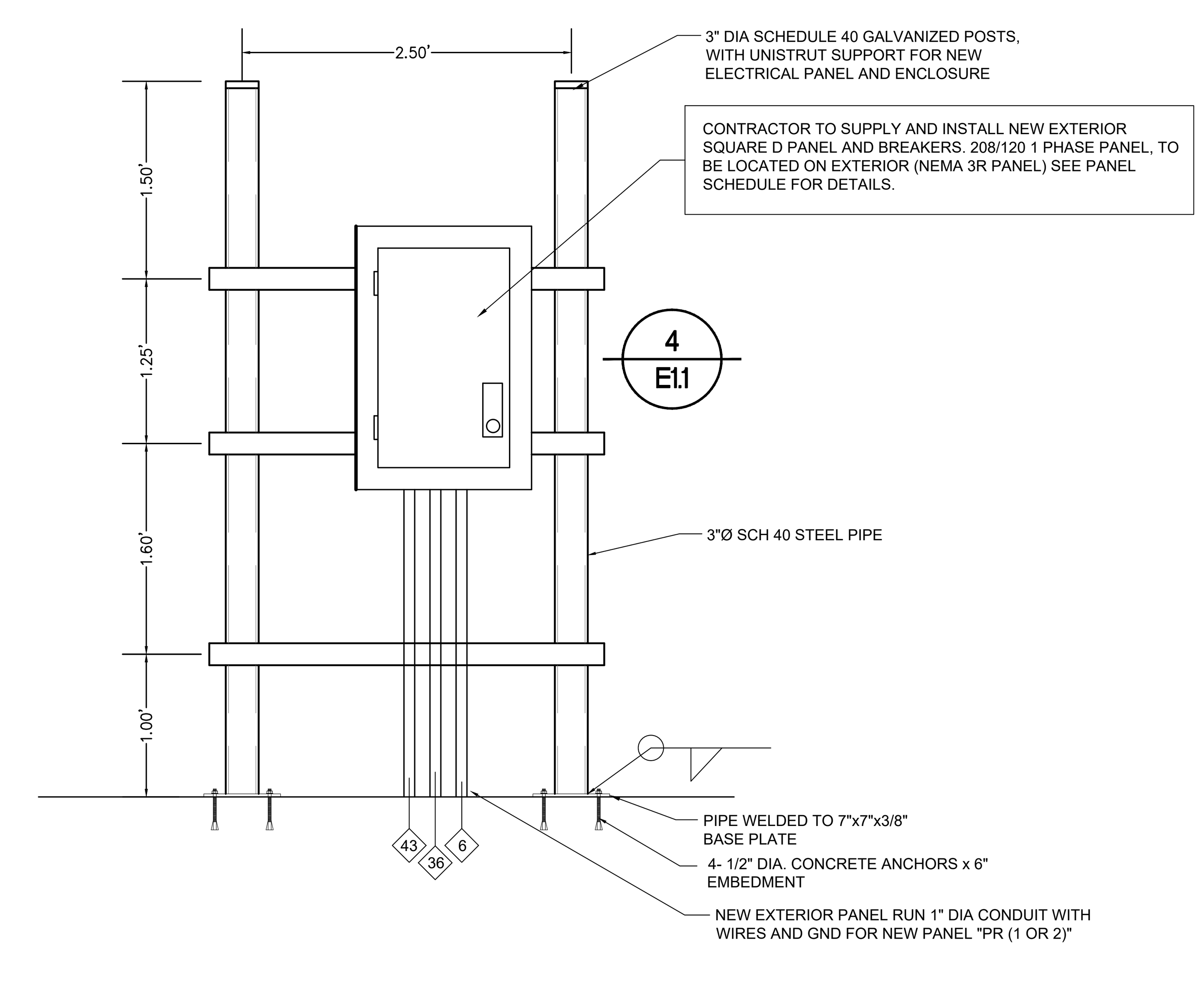
E1.0

nm811
Know what's below. Call before you dig.



NORTH ENTRANCE (GATE 1)

PARTIAL PARKING POWER DISTRIBUTION DIAGRAM
N.T.S.
1 E1.1



NEW PANEL PR-1 ELEVATION DETAIL
N.T.S.
2 E1.1

MANUFACTURER: GE LOAD CENTER OR EQUAL													TA81		
PANEL BUS RATING: 125A, 120/208V, 1PH							**PANEL LCA**								
MAIN TYPE: MLO															
O/C PROTECTION RATING: 25A 2 POLE 120/208 VOLT sub feed fromPANEL PR-1 CCT 1 , 3															
MISC. INFO:															
Type	Description	Load (VA)		Wire	Bkr	Pole	Circuit		Pole	Bkr	Wire	Load (VA)		Description	Type
		A	B	Size	Size		Breaker			Size	Size	B	A		
6	MAIN BREAKER PWR	0		10	25	2	1	2	1	15	12		360	EQUIPMENT LOAD	6
6	MAIN BREAKER PWR		0	10	25	2	3	4	1	15	12	360		ACCESSOR EQUIP	6
6	UPS PWR	850		12	20	1	5	6					0	BLANK	6
6	BLANK		0				7	8				0		BLANK	6

Type Descriptor	Subtotal	Total
1. Receptacles	0 x 1.00	0 VA
2. Lighting (125%)	0 x 1.25	0 VA
3. HVAC (100%)	0 x 1.00	0 VA
4. Motors (100%)	0 x 1.00	0 VA
5. Largest Motor (125%)	0 x 1.25	0 VA
6. Miscellaneous Loads (100%)	1570 x 1.00	1570 VA
7. Appliance Loads - 6 or more (65%)	0 x 0.65	0 VA
Total Demand Load:		**7.5 Amps**

Connected Load		
Phase	Load (VA)	Amps
Phase A	1210 VA	10.1
Phase B	360 VA	3.0
Total	1570 VA	
Phasing	0.30 %	
Total Connected Load:	7.5 Amps	

NEW PANEL (NORTH GATE 1) LCA SCHEDULE
N.T.S.
3 E1.1

MANUFACTURER: SQUARE D						**PANEL 'PR-1'**								TA81	
PANEL BUS RATING: 100A, 208/120V, 1 PHASE, 3WIRE															
MAIN TYPE: MLB															
O/C PROTECTION RATING: 50AMP															
MISC. INFO: SUBFED FROM EXISTING PANEL (CONTRACTOR TO FIELD LOCATE PANEL FOR NEW 50 AMP 2 POLE BREAKER, WIRE: C 1 1/4" WITH (3) #2, AND (1) #8 GND, NEMA 3R															
Description	Load (VA)		Cond.	Wire	Circuit	Pole	Circuit		Pole	Circuit	Wire	Cond.			Description
	A	B	Size	Size	Size	Size	Number		Size	Size	Size	Size	B	A	
LCA PARKING PANEL	1210		1"	10	25	2	1	2	1	15	12	3/4"		1104	GATE 1 ENTRY UNIT
LCA PARKING PANEL		360	1"	10	25	2	3	4							BLANK
BLANK	0						5	6						0	BLANK
BLANK		0					7	8					0		BLANK
BLANK	0						9	10						0	BLANK
BLANK		0					11	12					0		BLANK
Non Continuous Load	1210	360											0	1104	Non Continuous Load
Continuous Load	0	0											0	0	Continuous Load
	0	0											0	0	

Load Type		
Non Continuous Load	2674 kVa / (240 x √1)	11.1
Continuous Load	0 kVa x 1.25 / (208 x √1)	0.0
Largest Motor	1100 kVa x 1.25 / (208 x √1)	3.8
Panel Subfeed Loads		
Total Calculated Load:		15.0

Phase	Total w/Demand Load	
	VA	Amps
A	2314	19.3
B	360	3.0
Total	2674	

NEW PANEL (NORTH GATE 1) PR-1 SCHEDULE
N.T.S.
4 E1.1

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24601 CENTER RIDGE ROAD
SUITE 210
WESTLAKE, OHIO 44145

CONSULTANT:
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5136 Beach Road • Medina, Ohio 44256
t: 330.239.2699
WWW.WELLERT.COM
CELEBRATING 40 YEARS (1980-2020)

NO.	DATE	REVISION DESCRIPTION
0	06/10/2024	ISSUED FOR PERMIT

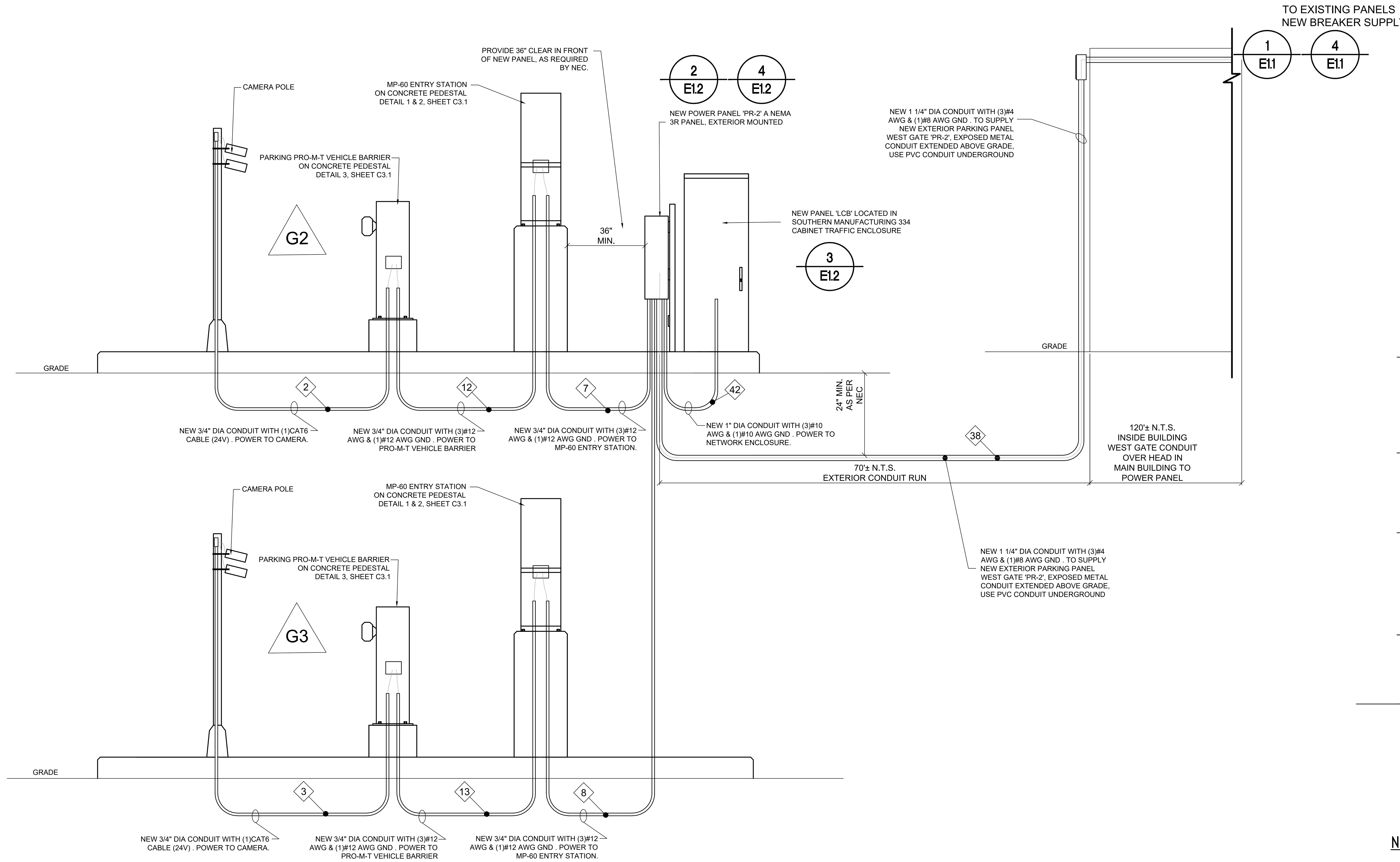
PROJECT TITLE:
TA FACILITY #081
NEW PARKING GATE
NEW PARKING GATE SYSTEM

SITE ADDRESS:
2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87107

SCALE: AS STATED
DATE: 06/10/2024
DESIGNED BY: SMW
DRAWN BY: SMW
CHECKED BY: RWW
FILE NAME: 240117-C #081 Parking Gate.dwg
JOB NUMBER: 240117

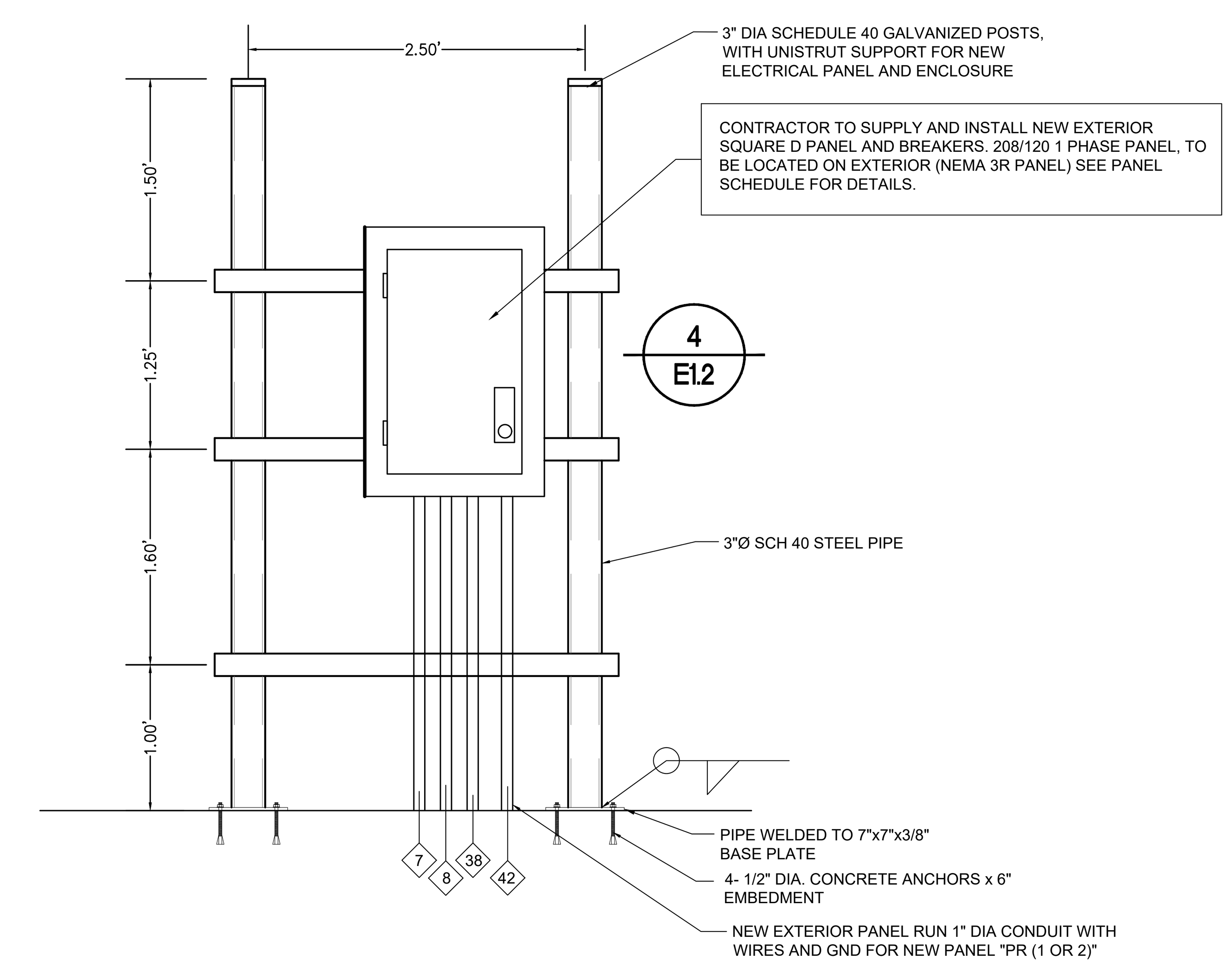
DRAWING TITLE:
ELECTRICAL DETAILS

SHEET NO:
E1.1



WEST ENTRANCE (GATES 2 & 3)

PARTIAL PARKING POWER DISTRIBUTION DIAGRAM
N.T.S.
1 / E1.2



NEW PANEL PR-1 ELEVATION DETAIL
N.T.S.
2 / E1.2

MANUFACTURER: GE LOAD CENTER OR EQUAL													TA81		
PANEL BUS RATING: 125A, 120/208V, 1PH							PANEL LCB								
MAIN TYPE: MLO															
O/C PROTECTION RATING: 25A 2 POLE 120/208 VOLT sub feed fromPANEL PR-3 CCT 1 , 3															
MISC. INFO:															
Type	Description	Load (VA)		Wire	Bkr	Pole	Circuit		Pole	Bkr	Wire	Load (VA)		Description	Type
		A	B	Size	Size		Breaker			Size	Size	B	A		
6	MAIN BREAKER PWR	0		10	25	2	1	2	1	15	12		360	EQUIPMENT LOAD	6
6	MAIN BREAKER PWR		0	10	25	2	3	4	1	15	12	360		ACCESSOR EQUIP	6
6	UPS PWR	850		12	20	1	5	6					0	BLANK	6
6	BLANK		0				7	8				0		BLANK	6

Type Descriptor	Subtotal	Total
1. Receptacles	0 x 1.00	0 VA
2. Lighting (125%)	0 x 1.25	0 VA
3. HVAC (100%)	0 x 1.00	0 VA
4. Motors (100%)	0 x 1.00	0 VA
5. Largest Motor (125%)	0 x 1.25	0 VA
6. Miscellaneous Loads (100%)	1570 x 1.00	1570 VA
7. Appliance Loads - 6 or more (65%)	0 x 0.65	0 VA
Total Demand Load:		**7.5 Amps**

Connected Load		
Phase	Load (VA)	Amps
Phase A	1210 VA	10.1
Phase B	360 VA	3.0
Total	1570 VA	
Phasing	0.30 %	
Total Connected Load:	7.5 Amps	

NEW PANEL (WEST GATES 2 & 3) LCB SCHEDULE
N.T.S.
3 / E1.2

MANUFACTURER: SQUARE D						PANEL 'PR-2'								TA81	
PANEL BUS RATING: 100A, 208/120V, 1 PHASE, 3WIRE															
MAIN TYPE: MLB															
O/C PROTECTION RATING: 50AMP															
MISC. INFO: SUBFED FROM EXISTING PANEL (CONTRACTOR TO FIELD LOCATE PANEL FOR NEW 50 AMP 2 POLE BREAKER, WIRE: C 1 1/4" WITH (3) #2, AND (1) #8 GND, NEMA 3R															
Description	Load (VA)		Cond.	Wire	Circuit	Pole	Circuit		Pole	Circuit	Wire	Cond.			Description
	A	B	Size	Size	Size	Size	Number		Size	Size	Size	Size	B	A	
LCB PARKING PANEL	1210		1"	10	25	2	1	2	1	15	12	3/4"		1104	GATE 2 ENTRY UNIT
LCB PARKING PANEL		360	1"	10	25	2	3	4	1	15	12	3/4"	1104		GATE 3 ENTRY UNIT
BLANK	0						5	6						0	BLANK
BLANK		0					7	8					0		BLANK
BLANK	0						9	10						0	BLANK
BLANK		0					11	12					0		BLANK
Non Continuous Load	1210	360											1104	1104	Non Continuous Load
Continuous Load	0	0											0	0	Continuous Load
	0	0											0	0	

Load Type		
Non Continuous Load	3778 kVa / (240 x √1)	15.7
Continuous Load	0 kVa x 1.25 / (208 x √1)	0.0
Largest Motor	1100 kVa x 1.25 / (208 x √1)	3.8
Panel Subfeed Loads		
Total Calculated Load:		19.6

Phase	Total w/Demand Load	
	VA	Amps
A	2314	19.3
B	1464	12.2
Total	3778	

NEW PANEL (WEST GATES 2 & 3) PR-2 SCHEDULE
N.T.S.
4 / E1.2

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24601 CENTER RIDGE ROAD
SUITE 210
WESTLAKE, OHIO 44145

CONSULTANT:
Wellert ENGINEERS • SURVEYORS
5136 Beach Road • Medina, Ohio 44256
t. 330.239.2699
WWW.WELLERT.COM
CELEBRATING 40 YEARS (1980-2020)

NO.	DATE	REVISION DESCRIPTION
0	06/10/2024	ISSUED FOR PERMIT

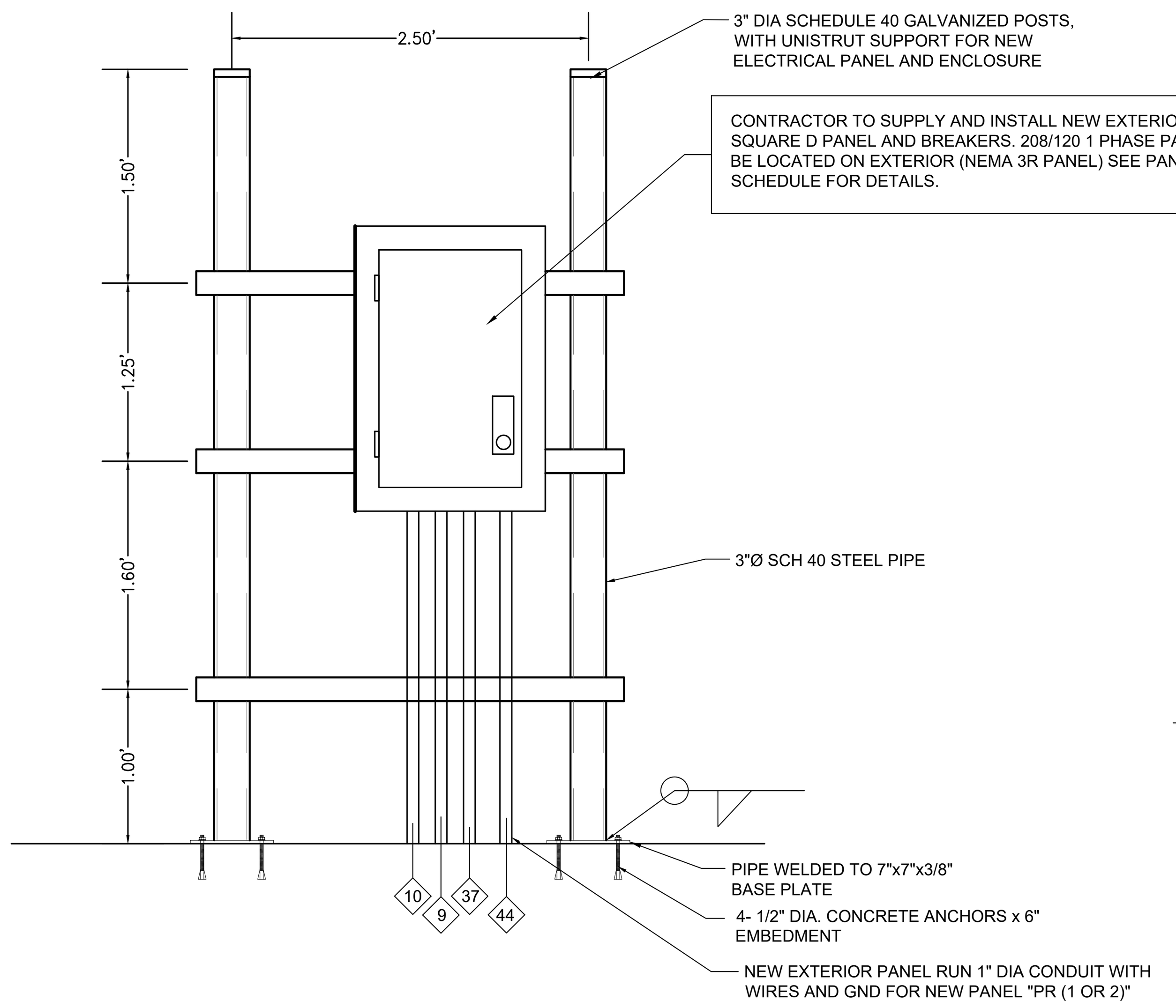
PROJECT TITLE:
TA FACILITY #081
NEW PARKING GATE
NEW PARKING GATE SYSTEM

SITE ADDRESS:
2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO
87107

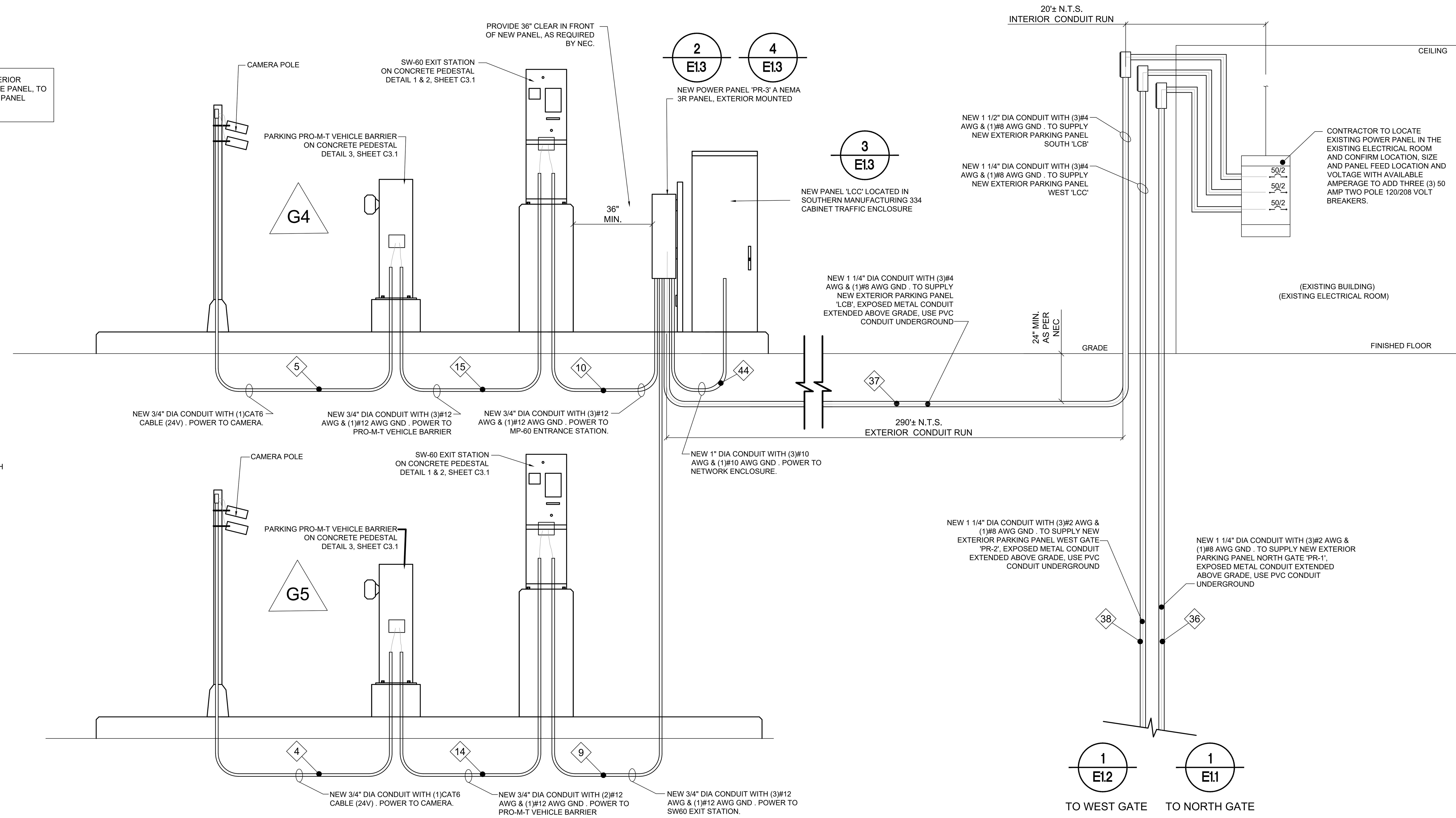
SCALE: AS STATED
DATE: 06/10/2024
DESIGNED BY: SMW
DRAWN BY: SMW
CHECKED BY: RWW
FILE NAME: 240117-C #081 Parking Gate.dwg
JOB NUMBER: 240117

DRAWING TITLE:
ELECTRICAL DETAILS

SHEET NO:
E1.2



NEW PANEL PR-1 ELEVATION DETAIL (4 / E1.3)
N.T.S.



SOUTH EXIT (GATES 4 & 5)

PARTIAL PARKING POWER DISTRIBUTION DIAGRAM (1 / E1.3)
N.T.S.

PANEL LCC

MANUFACTURER: GE LOAD CENTER OR EQUAL — TA81
PANEL BUS RATING: 125A, 120/208V, 1PH
MAIN TYPE: MLO
O/C PROTECTION RATING: 25A 2 POLE 120/208 VOLT sub feed fromPANEL PR-2 CCT 1 , 3
MISC. INFO:

Type	Description	Load (VA) A	Load (VA) B	Wire Size	Bkr Size	Pole	Circuit Breaker	Circuit Breaker	Pole	Bkr Size	Wire Size	Load (VA) B	Load (VA) A	Description	Type
6	MAIN BREAKER PWR	0		10	25	2	1	2	1	15	12		360	EQUIPMENT LOAD	6
6	MAIN BREAKER PWR		0	10	25	2	3	4	1	15	12	360		ACCESSOR EQUIP	6
6	UPS PWR	850		12	20	1	5	6					0	BLANK	6
6	BLANK		0				7	8				0		BLANK	6

Type Descriptor	Subtotal		Total
1. Receptacles	0	x 1.00	0 VA
2. Lighting (125%)	0	x 1.25	0 VA
3. HVAC (100%)	0	x 1.00	0 VA
4. Motors (100%)	0	x 1.00	0 VA
5. Largest Motor (125%)	0	x 1.25	0 VA
6. Miscellaneous Loads (100%)	1570	x 1.00	1570 VA
7. Appliance Loads - 6 or more (65%)	0	x 0.65	0 VA
Total Demand Load:			**7.5 Amps**

Connected Load		
Phase	Load (VA)	Amps
Phase A	1210 VA	10.1
Phase B	360 VA	3.0
Total	1570 VA	
Phasing	0.30 %	
Total Connected Load:	7.5 Amps	

NEW PANEL (SOUTH GATES 4 & 5) LCC SCHEDULE (3 / E1.3)
N.T.S.

PANEL 'PR-3'

MANUFACTURER: SQUARE D — TA81
PANEL BUS RATING: 100A, 208/120V, 1 PHASE, 3WIRE
MAIN TYPE: MLB
O/C PROTECTION RATING: 50AMP
MISC. INFO: SUBFED FROM EXISTING PANEL (CONTRACTOR TO FIELD LOCATE PANEL FOR NEW 50 AMP 2 POLE BREAKER, WIRE: C 1 1/4" WITH (3) #2, AND (1) #8 GND, NEMA 3R

Description	Load (VA) A	Load (VA) B	Cond. Size	Wire Size	Circuit Size	Pole Size	Circuit Number	Circuit Number	Pole Size	Circuit Size	Wire Size	Cond. Size	B	A	Description
LCB PARKING PANEL	1210		1"	10	25	2	1	2	1	15	12	3/4"		1104	GATE 4 EXIT UNIT
LCB PARKING PANEL		360	1"	10	25	2	3	4	1	15	12	3/4"	1104		GATE 5 EXIT UNIT
BLANK	0						5	6						0	BLANK
BLANK		0					7	8					0		BLANK
BLANK	0						9	10						0	BLANK
BLANK		0					11	12					0		BLANK
Non Continuous Load	1210	360											1104	1104	Non Continuous Load
Continuous Load	0	0											0	0	Continuous Load
	0	0											0	0	

Load Type		
Non Continuous Load	3778 kVa / (240 x √1)	15.7
Continuous Load	0 kVa x 1.25 / (208 x √1)	0.0
Largest Motor	1100 kVa x 1.25 / (208 x √1)	3.8
Panel Subfeed Loads		
Total Calculated Load:		19.6

Phase	Total w/Demand Load VA	Amps
A	2314	19.3
B	1464	12.2
Total	3778	

NEW PANEL (SOUTH GATES 4 & 5) PR-3 SCHEDULE (2 / E1.3)
N.T.S.

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24601 CENTER RIDGE ROAD
SUITE 210
WESTLAKE, OHIO 44145

CONSULTANT:
Wellert
ENGINEERS • SURVEYORS
5136 Beach Road • Medina, Ohio 44256
t: 330.239.2699
WWW.WELLERT.COM
CELEBRATING 40 YEARS (1980-2020)

NO.	DATE	REVISION DESCRIPTION
0	06/10/2024	ISSUED FOR PERMIT

PROJECT TITLE:
TA FACILITY #081
NEW PARKING GATE
NEW PARKING GATE SYSTEM

SITE ADDRESS:
2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO
87107

SCALE: AS STATED
DATE: 06/10/2024
DESIGNED BY: SMW
DRAWN BY: SMW
CHECKED BY: RWW
FILE NAME: 240117-C #081 Parking Gate.dwg
JOB NUMBER: 240117

DRAWING TITLE:
ELECTRICAL DETAILS

SHEET NO:
E1.3

Travelcenters of America Site #081, Alburquerque, NM

CABLE SCHEDULE

GATE #1 - ENTRANCE

Cable #	Cable Type	From:	To:	Termination (From):	Termination (To):	Conduit #:	Notes:
19	#2 AWG	Gate Power Panel PR-1	Main Building Power Panel			36	Mount Gate power panel in new C3R Enclosure. Field verify space for power in Main Building Electrical Room
20	#2 AWG	Gate Power Panel PR-1	Main Building Power Panel			36	Mount Gate power panel in new C3R Enclosure. Field verify space for power in Main Building Electrical Room
21	#2 AWG	Gate Power Panel PR-1	Main Building Power Panel			36	Mount Gate power panel in new C3R Enclosure. Field verify space for power in Main Building Electrical Room
22	#8 AWG GROUND	Gate Power Panel PR-1	Main Building Power Panel			36	Mount Gate power panel in new C3R Enclosure. Field verify space for power in Main Building Electrical Room
1	6 - STRAND SM FIBEROPTIC	Cabinet LCA (Entrance Gate G1)	Main Building Data Area	LC (Rack Mount Patch Panel	LC (Small Wall Mount Enclosure)	38	Mount fiber patch panel enclosure near top of rack. Mount building enclosure near data rack on wall. Field verify final locations.
2	CAT6	PRO-M Parking Gate	LPR Camera Pole G1	CAT6 Patch Panel	Keystone/Surface Box (Small)	1	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
3	#12 AWG	Gate Power Panel PR-1	Entry Lane Device			6	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
4	#12 AWG	Gate Power Panel PR-1	Entry Lane Device			6	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
5	#12 GROUND	Gate Power Panel PR-1	Entry Lane Device			6	Leave 10' each side (#12 Gauge TW/THW round Wire)
6	#12 AWG	Entry Lane Device	PRO-M Parking Gate			11	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
7	#12 AWG	Entry Lane Device	PRO-M Parking Gate			11	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
8	#12 GROUND	Entry Lane Device	PRO-M Parking Gate			11	Leave 10' each side (#12 Gauge TW/THW round Wire)
9	#12 AWG	Entry Lane Device	Sensor Loops			18	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
10	#12 AWG	Entry Lane Device	Sensor Loops			18	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
11	#12 GROUND	Entry Lane Device	Sensor Loops			18	Leave 10' each side (#12 Gauge TW/THW round Wire)
12	CAT6	Cabinet LCA (Entrance Gate G1)	LPR Camera Pole G1	No Termination	No Termination	21	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
13	CAT6	Cabinet LCA (Entrance Gate G1)	LPR Camera Pole G1	No Termination	No Termination	21	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
14	CAT6	Cabinet LCA (Entrance Gate G1)	LPR Camera Pole G1	No Termination	No Termination	21	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
15	CAT6	Cabinet LCA (Entrance Gate G1)	Entry Lane Device	No Termination	No Termination	28	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
16	CAT6	Cabinet LCA (Entrance Gate G1)	Entry Lane Device	No Termination	No Termination	28	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
17	CAT6	Cabinet LCA (Entrance Gate G1)	Entry Lane Device	No Termination	No Termination	28	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
18	18/4 UNSHIELDED COPPER WIRE	Entry Lane Device	LPR Camera Pole G1	No Termination	No Termination	31	Leave 10' each side (18 AWG, four conductor, stranded, unshielded copper cable)
40	#10 AWG	Gate Power Panel PR-1	Cabinet LCA (Entrance Gate G1)			42	Leave 10' each side (#10 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
41	#10 AWG	Gate Power Panel PR-1	Cabinet LCA (Entrance Gate G1)			42	Leave 10' each side (#10 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
42	#10 GROUND	Gate Power Panel PR-1	Cabinet LCA (Entrance Gate G1)			42	Leave 10' each side (#10 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)

GATE #2 - ENTRANCE

Cable #	Cable Type	From:	To:	Termination (From):	Termination (To):	Conduit #:	Notes:
19	#2 AWG	Gate Power Panel PR-2	Main Building Power Panel			37	Mount Gate power panel in new C3R Enclosure. Field verify space for power in Main Building Electrical Room
20	#2 AWG	Gate Power Panel PR-2	Main Building Power Panel			37	Mount Gate power panel in new C3R Enclosure. Field verify space for power in Main Building Electrical Room
21	#2 AWG	Gate Power Panel PR-2	Main Building Power Panel			37	Mount Gate power panel in new C3R Enclosure. Field verify space for power in Main Building Electrical Room
22	#8 AWG GROUND	Gate Power Panel PR-2	Main Building Power Panel			37	Mount Gate power panel in new C3R Enclosure. Field verify space for power in Main Building Electrical Room
23	CAT6	PRO-M Parking Gate	LPR Camera Pole G2	CAT6 Patch Panel	Keystone/Surface Box (Small)	2	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
24	#12 AWG	Gate Power Panel PR-2	Entry Lane Device			7	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
25	#12 AWG	Gate Power Panel PR-2	Entry Lane Device			7	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
26	#12 GROUND	Gate Power Panel PR-2	Entry Lane Device			7	Leave 10' each side (#12 Gauge TW/THW round Wire)
27	#12 AWG	Entry Lane Device	PRO-M Parking Gate			12	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
28	#12 AWG	Entry Lane Device	PRO-M Parking Gate			12	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
29	#12 GROUND	Entry Lane Device	PRO-M Parking Gate			12	Leave 10' each side (#12 Gauge TW/THW round Wire)
30	#12 AWG	Entry Lane Device	Sensor Loops			19	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
31	#12 AWG	Entry Lane Device	Sensor Loops			19	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
32	#12 GROUND	Entry Lane Device	Sensor Loops			19	Leave 10' each side (#12 Gauge TW/THW round Wire)
33	CAT6	Cabinet LCB (Entrance Gate G2)	LPR Camera Pole G2	No Termination	No Termination	22	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
34	CAT6	Cabinet LCB (Entrance Gate G2)	LPR Camera Pole G2	No Termination	No Termination	22	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
35	CAT6	Cabinet LCB (Entrance Gate G2)	LPR Camera Pole G2	No Termination	No Termination	22	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
36	CAT6	Cabinet LCB (Entrance Gate G2)	Entry Lane Device	No Termination	No Termination	29	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
37	CAT6	Cabinet LCB (Entrance Gate G2)	Entry Lane Device	No Termination	No Termination	29	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
38	CAT6	Cabinet LCB (Entrance Gate G2)	Entry Lane Device	No Termination	No Termination	29	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
39	18/4 UNSHIELDED COPPER WIRE	Entry Lane Device	LPR Camera Pole G2	No Termination	No Termination	32	Leave 10' each side (18 AWG, four conductor, stranded, unshielded copper cable)
40	#10 AWG	Gate Power Panel PR-2	Cabinet LCB (Entrance Gate G2)			42	Leave 10' each side (#10 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
41	#10 AWG	Gate Power Panel PR-2	Cabinet LCB (Entrance Gate G2)			42	Leave 10' each side (#10 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
42	#10 GROUND	Gate Power Panel PR-2	Cabinet LCB (Entrance Gate G2)			42	Leave 10' each side (#10 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)

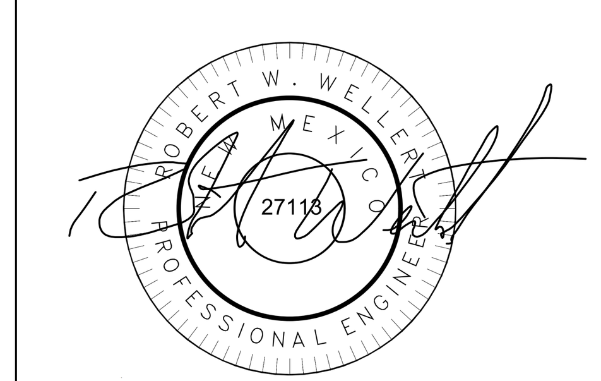
GATE #3 - ENTRANCE

Cable #	Cable Type	From:	To:	Termination (From):	Termination (To):	Conduit #:	Notes:
65	CAT6	PRO-M Parking Gate	LPR Camera Pole G3	CAT6 Patch Panel	Keystone/Surface Box (Small)	3	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
66	#12 AWG	Gate Power Panel PR-2	Entry Lane Device			8	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
67	#12 AWG	Gate Power Panel PR-2	Entry Lane Device			8	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
68	#12 GROUND	Gate Power Panel PR-2	Entry Lane Device			8	Leave 10' each side (#12 Gauge TW/THW round Wire)
69	#12 AWG	Entry Lane Device	PRO-M Parking Gate			13	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
70	#12 AWG	Entry Lane Device	PRO-M Parking Gate			13	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
71	#12 GROUND	Entry Lane Device	PRO-M Parking Gate			13	Leave 10' each side (#12 Gauge TW/THW round Wire)
72	#12 AWG	Entry Lane Device	Sensor Loops			20	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
73	#12 AWG	Entry Lane Device	Sensor Loops			20	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
74	#12 GROUND	Entry Lane Device	Sensor Loops			20	Leave 10' each side (#12 Gauge TW/THW round Wire)
75	CAT6	Cabinet LCB (Entrance Gate G2)	LPR Camera Pole G3	No Termination	No Termination	23	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
76	CAT6	Cabinet LCB (Entrance Gate G2)	LPR Camera Pole G3	No Termination	No Termination	23	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
77	CAT6	Cabinet LCB (Entrance Gate G2)	LPR Camera Pole G3	No Termination	No Termination	23	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
78	CAT6	Cabinet LCB (Entrance Gate G2)	Entry Lane Device	No Termination	No Termination	30	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
79	CAT6	Cabinet LCB (Entrance Gate G2)	Entry Lane Device	No Termination	No Termination	30	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
80	CAT6	Cabinet LCB (Entrance Gate G2)	Entry Lane Device	No Termination	No Termination	30	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
81	18/4 UNSHIELDED COPPER WIRE	Entry Lane Device	LPR Camera Pole G3	No Termination	No Termination	33	Leave 10' each side (18 AWG, four conductor, stranded, unshielded copper cable)

CLIENT:
TravelCenters of America
24601 CENTER RIDGE ROAD
SUITE 210
WESTLAKE, OHIO 44145

CONSULTANT:
Wellert
ENGINEERS • SURVEYORS
5136 Beach Road • Medina, Ohio 44256
t. 330.239.2699
WWW.WELLERT.COM
CELEBRATING 40 YEARS (1980-2020)

NO.	DATE	REVISION DESCRIPTION
0	06/10/2024	ISSUED FOR PERMIT



PROJECT TITLE:
TA FACILITY #081
NEW PARKING GATE
NEW PARKING GATE SYSTEM

SITE ADDRESS:
2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87107

SCALE: AS STATED
DATE: 06/10/2024
DESIGNED BY: SMW
DRAWN BY: SMW
CHECKED BY: RWW
FILE NAME: 240117-C #081 Parking Gate.dwg
JOB NUMBER: 240117

DRAWING TITLE:
ELECTRIC CABLE SCHEDULE

SHEET NO:
E1.4

Travelcenters of America Site #081, Alburquerque, NM

Cable #	Cable Type	From:	To:	Termination (From):	Termination (To):	Conduit #:	Notes:
GATE #4 - EXIT							
60	#2 AWG	Gate Power Panel PR-3	Main Building Power Panel			38	Mount Gate power panel in new C3R Enclosure. Field verify space for power in Main Building Electrical Room
61	#2 AWG	Gate Power Panel PR-3	Main Building Power Panel			38	Mount Gate power panel in new C3R Enclosure. Field verify space for power in Main Building Electrical Room
62	#2 AWG	Gate Power Panel PR-3	Main Building Power Panel			38	Mount Gate power panel in new C3R Enclosure. Field verify space for power in Main Building Electrical Room
63	#8 AWG GROUND	Gate Power Panel PR-3	Main Building Power Panel			38	Mount Gate power panel in new C3R Enclosure. Field verify space for power in Main Building Electrical Room
64	6 - STRAND SM FIBEROPTIC	Cabinet LCC (EXIT GATE G4)	Main Building Data Area	LC (Rack Mount Patch Panel	LC (Small Wall Mount Enclosure)	41	Mount fiber patch panel enclosure near top of rack. Mount building enclosure near data rack on wall. Field verify final locations.
43	CAT6	PRO-M Parking Gate	LPR Camera Pole G4	CAT6 Patch Panel	Keystone/Surface Box (Small)	5	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
44	#12 AWG	Gate Power Panel PR-3	Exit Lane Device			10	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
45	#12 AWG	Gate Power Panel PR-3	Exit Lane Device			10	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
46	#12 GROUND	Gate Power Panel PR-3	Exit Lane Device			10	Leave 10' each side (#12 Gauge TW/THW round Wire)
47	#12 AWG	Exit Lane Device	PRO-M Parking Gate			11	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
48	#12 AWG	Exit Lane Device	PRO-M Parking Gate			11	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
49	#12 GROUND	Exit Lane Device	PRO-M Parking Gate			11	Leave 10' each side (#12 Gauge TW/THW round Wire)
50	#12 AWG	Exit Lane Device	Sensor Loops			15	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
51	#12 AWG	Exit Lane Device	Sensor Loops			15	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
52	#12 GROUND	Exit Lane Device	Sensor Loops			15	Leave 10' each side (#12 Gauge TW/THW round Wire)
53	CAT6	Cabinet LCC (EXIT GATE G4)	LPR Camera Pole G4	No Termination	No Termination	25	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
54	CAT6	Cabinet LCC (EXIT GATE G4)	LPR Camera Pole G4	No Termination	No Termination	25	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
55	CAT6	Cabinet LCC (EXIT GATE G4)	LPR Camera Pole G4	No Termination	No Termination	25	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
56	CAT6	Cabinet LCC (EXIT GATE G4)	Exit Lane Device	No Termination	No Termination	27	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
57	CAT6	Cabinet LCC (EXIT GATE G4)	Exit Lane Device	No Termination	No Termination	27	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
58	CAT6	Cabinet LCC (EXIT GATE G4)	Exit Lane Device	No Termination	No Termination	27	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
59	18/4 UNSHIELDED COPPER WIRE	Exit Lane Device	LPR Camera Pole G1	No Termination	No Termination	35	Leave 10' each side (18 AWG, four conductor, stranded, unshielded copper cable)
82	#10 AWG	Gate Power Panel PR-3	Cabinet LCC (EXIT GATE G4)			44	Leave 10' each side (#10 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
83	#10 AWG	Gate Power Panel PR-3	Cabinet LCC (EXIT GATE G4)			44	Leave 10' each side (#10 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
84	#10 GROUND	Gate Power Panel PR-3	Cabinet LCC (EXIT GATE G4)			44	Leave 10' each side (#10 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
GATE #5 - EXIT							
85	CAT6	Cabinet LCC (EXIT GATE G4)	LPR Camera Pole G5	CAT6 Patch Panel	Keystone/Surface Box (Small)	4	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
86	#12 AWG	Gate Power Panel PR-3	Exit Lane Device			9	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
87	#12 AWG	Gate Power Panel PR-3	Exit Lane Device			9	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
88	#12 GROUND	Gate Power Panel PR-3	Exit Lane Device			9	Leave 10' each side (#12 Gauge TW/THW round Wire)
89	#12 AWG	Exit Lane Device	PRO-M Parking Gate			14	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
90	#12 AWG	Exit Lane Device	PRO-M Parking Gate			14	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
91	#12 GROUND	Exit Lane Device	PRO-M Parking Gate			14	Leave 10' each side (#12 Gauge TW/THW round Wire)
92	#12 AWG	Exit Lane Device	Sensor Loops			16	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
93	#12 AWG	Exit Lane Device	Sensor Loops			16	Leave 10' each side (#12 Gauge 19 Strand THHN stranded bare copper conductor, PVC insulation, and a Nylon jacket)
94	#12 GROUND	Exit Lane Device	Sensor Loops			16	Leave 10' each side (#12 Gauge TW/THW round Wire)
95	CAT6	Cabinet LCC (EXIT GATE G4)	LPR Camera Pole G5	No Termination	No Termination	24	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
96	CAT6	Cabinet LCC (EXIT GATE G4)	LPR Camera Pole G5	No Termination	No Termination	24	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
97	CAT6	Cabinet LCC (EXIT GATE G4)	LPR Camera Pole G5	No Termination	No Termination	24	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
98	CAT6	Cabinet LCC (EXIT GATE G4)	Exit Lane Device	No Termination	No Termination	26	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
99	CAT6	Cabinet LCC (EXIT GATE G4)	Exit Lane Device	No Termination	No Termination	26	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
100	CAT6	Cabinet LCC (EXIT GATE G4)	Exit Lane Device	No Termination	No Termination	26	Leave 4' pole side, TAPCO to final locate surface box in equipment, multiple CAT6 can share a surface mount box
101	18/4 UNSHIELDED COPPER WIRE	Exit Lane Device	LPR Camera Pole G5	No Termination	No Termination	34	Leave 10' each side (18 AWG, four conductor, stranded, unshielded copper cable)
POINT OF SALE/FUEL DESK AREAS							
102	CAT6	Office/Data Closet	Cashier Counter	Keystone/Surface Box (Small)	Keystone/Surface Box (Small)	-	Drop from ceiling near fiber in office, run to POS counter w/ other cable (field coordinate final locations)
103	CAT6	Office/Data Closet	Cashier Counter	Keystone/Surface Box (Small)	Keystone/Surface Box (Small)	-	Drop from ceiling near fiber in office, run to POS counter w/ other cable (field coordinate final locations)
104	CAT6	Office/Data Closet	Cashier Counter 2nd Loc.	Keystone/Surface Box (Small)	Keystone/Surface Box (Small)	-	Drop from ceiling near fiber in office, run to POS counter w/ other cable (field coordinate final locations)
105	CAT6	Office/Data Closet	Cashier Counter 2nd Loc.	Keystone/Surface Box (Small)	Keystone/Surface Box (Small)	-	Drop from ceiling near fiber in office, run to POS counter w/ other cable (field coordinate final locations)
106	CAT6	Office/Data Closet	Cashier Counter	No Termination	No Termination	-	Drop from ceiling near fiber in office, run to POS counter w/ other cable (field coordinate final locations)
107	CAT6	Office/Data Closet	Cashier Counter 2nd Loc.	No Termination	No Termination	-	Drop from ceiling near fiber in office, run to POS counter w/ other cable (field coordinate final locations)
MAIN BUILDING							
N/A	SM Fiber (6 Strand)	Office/Data Closet	Cabinet (Exit L2)				Specified in Exit Lane 2 Cabinet Details
N/A	SM Fiber (6 Strand)	Office/Data Closet	Cabinet (Entrance L1)				Specified in Entrance Lane 1 Cabinet Details

General Notes:

A	Cabinet rack mount patch panels to be installed at top of rack rails and cables routed appropriately with adequate slack.
B	Data closet fiber to be mounted near existing data rack(s) on wall (field coordinate)
C	Qty. 2 - 1/2" Conduit from each gate out to pre-fab inductive loop location for loop lead-in connection per lane.
D	Field coordinate final location for in-building POS counter data cables.
E	120VAC power receptacle required at field coordinated POS counter locations (can share with existing, field coordinate and provide as needed).
F	Per Croft Conduit #'s, 1/3, 7/9 & 15/17, 22/24 to be used for 120VAC power distribution.
G	Additional POS CAT6 cables at this site to cover long counter and multiple POS stations.

CLIENT:
TravelCenters of America
24601 CENTER RIDGE ROAD
SUITE 210
WESTLAKE, OHIO 44145

CONSULTANT:
Wellert
ENGINEERS • SURVEYORS
5136 Beach Road • Medina, Ohio 44256
t: 330.239.2699
WWW.WELLERT.COM
CELEBRATING 40 YEARS (1980-2020)

NO.	DATE	REVISION DESCRIPTION
0	06/10/2024	ISSUED FOR PERMIT

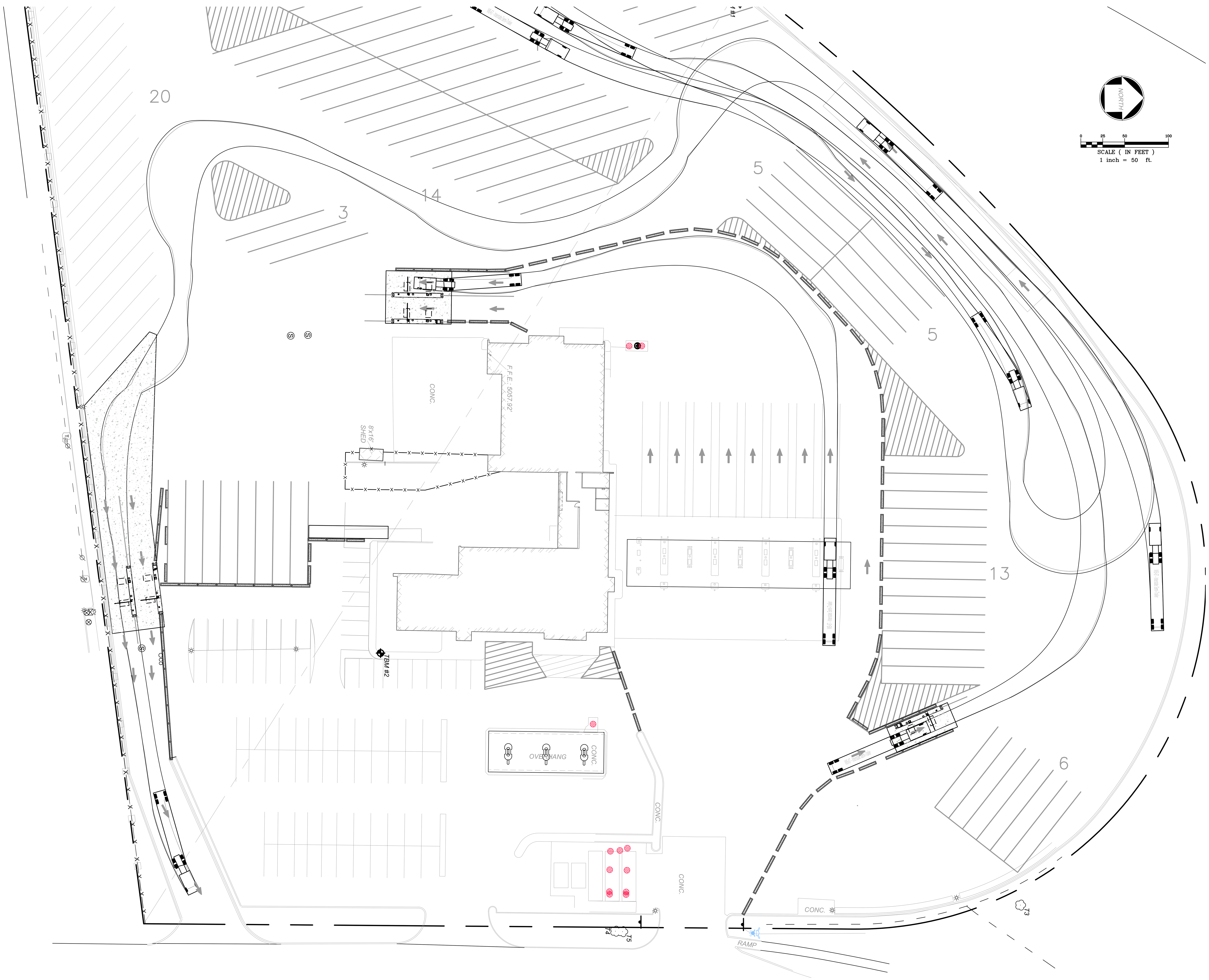
PROJECT TITLE:
TA FACILITY #081
NEW PARKING GATE
NEW PARKING GATE SYSTEM

SITE ADDRESS:
2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO
87107

SCALE: AS STATED
DATE: 06/10/2024
DESIGNED BY: SMW
DRAWN BY: SMW
CHECKED BY: RWW
FILE NAME: 240117-C #081 Parking Gate.dwg
JOB NUMBER: 240117

DRAWING TITLE:
ELECTRIC CABLE SCHEDULE

SHEET NO:
E1.5



CLIENT:

TravelCenters of America
24601 CENTER RIDGE ROAD
SUITE 210
WESTLAKE, OHIO 44145

CONSULTANT:

Wellert
ENGINEERS • SURVEYORS
5136 Beach Road • Medina, Ohio 44256
t: 330.239.2699
WWW.WELLERT.COM
CELEBRATING 40 YEARS (1980-2020)

NO.	DATE	REVISION DESCRIPTION
0	06/10/2024	ISSUED FOR PERMIT
1	08/01/2024	REVISED CONCRETE PADS AND BARRIER PLACEMENT

PROJECT TITLE:

TA FACILITY #081
NEW PARKING GATE
NEW PARKING GATE SYSTEM

SITE ADDRESS:

2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87107

SCALE:	N/A
DATE:	06/10/2024
DESIGNED BY:	SMW
DRAWN BY:	SMW
CHECKED BY:	RWW
FILE NAME:	240117-C #081 Parking Gate.dwg
JOB NUMBER:	240117

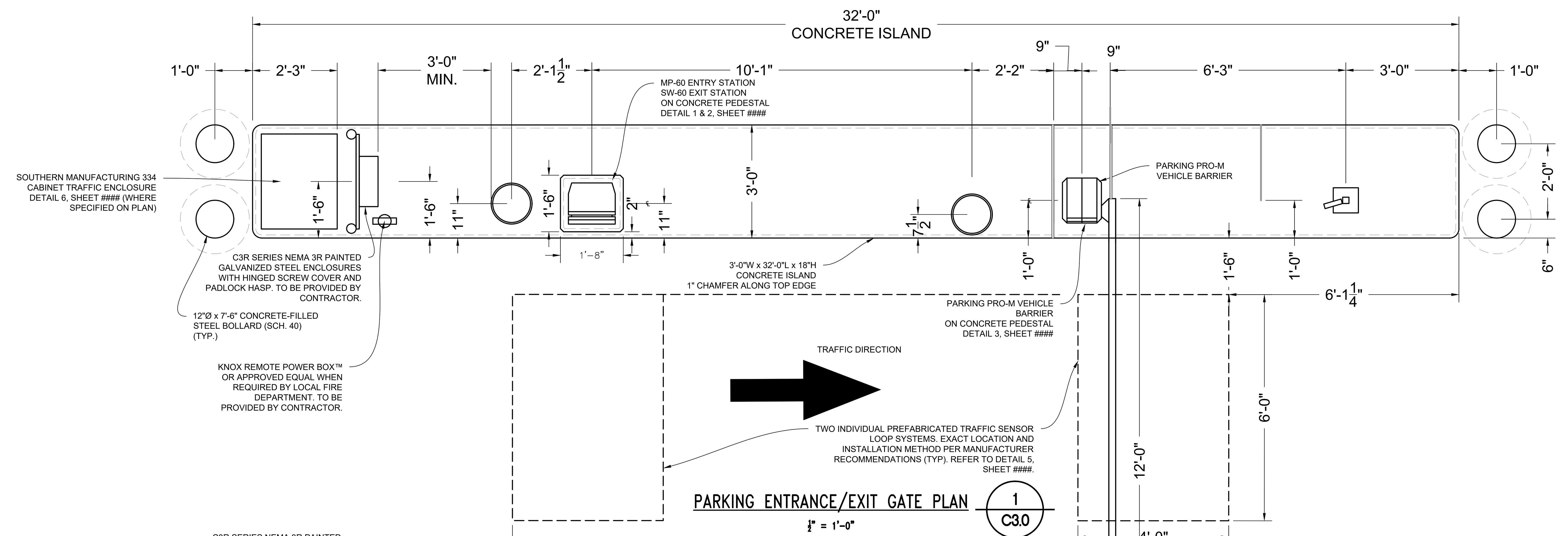
DRAWING TITLE:

TRUCK TURN PLAN

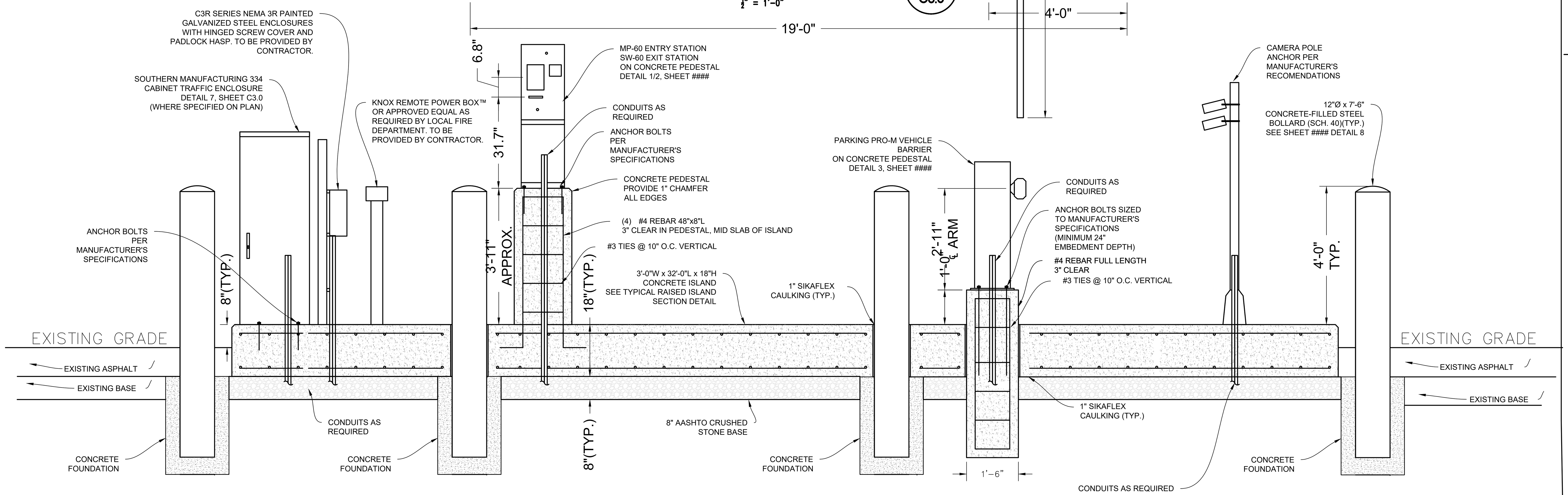
SHEET NO.:

TT1.0

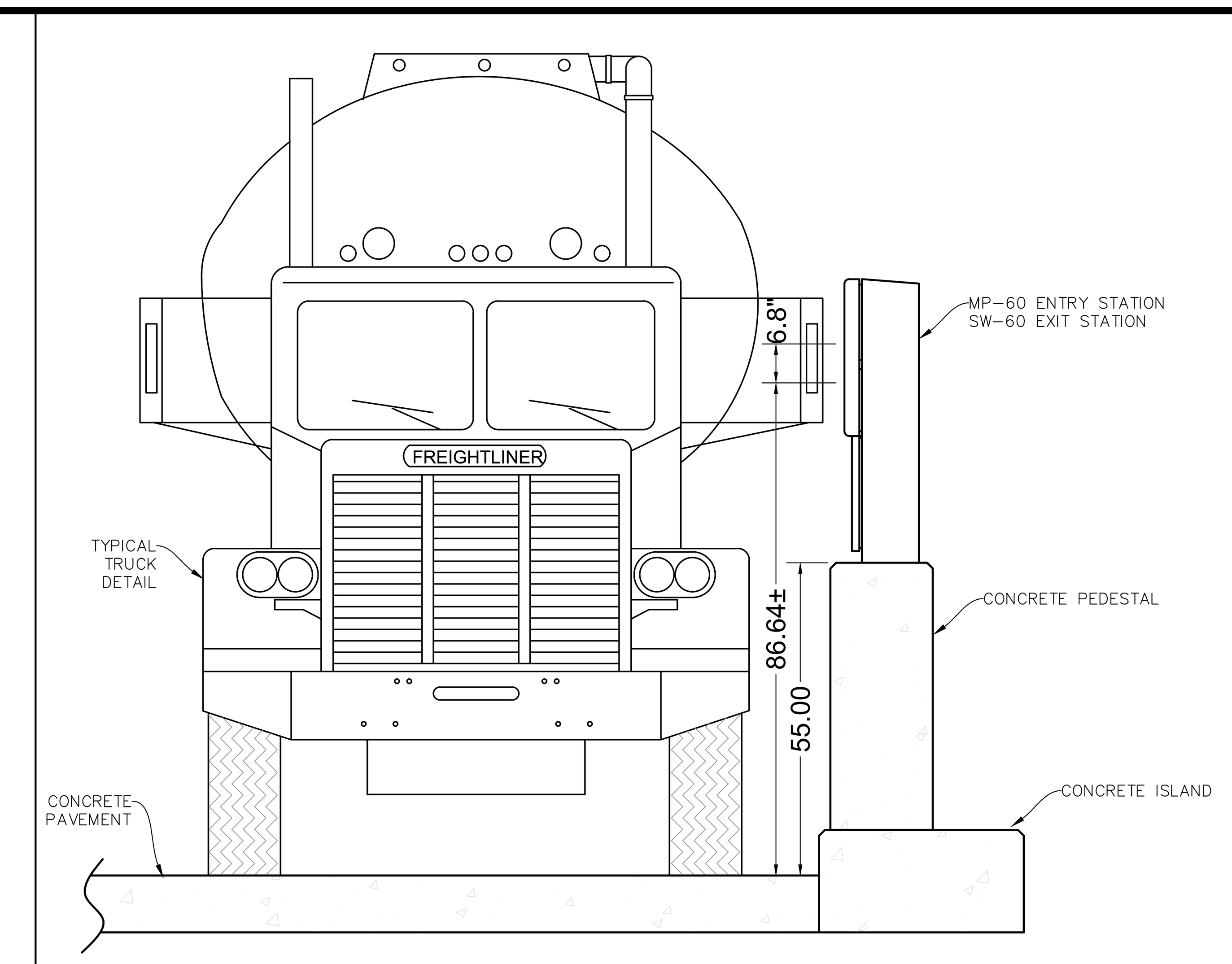
NOTE:
CONDUIT TO BE BURIED AS PER N.E.C., LATEST EDITION.



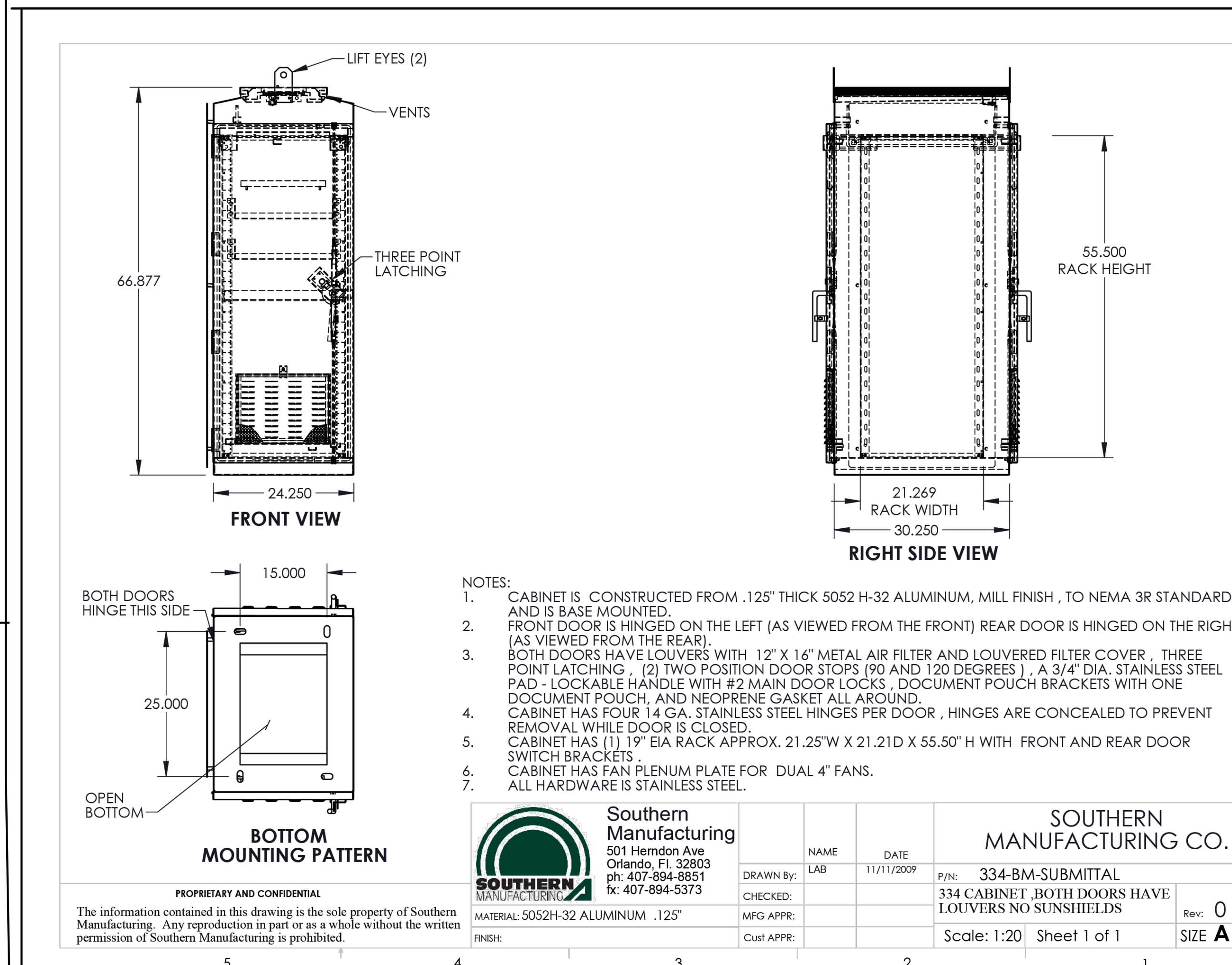
PARKING ENTRANCE/EXIT GATE PLAN (1 / C3.0)
1/4" = 1'-0"



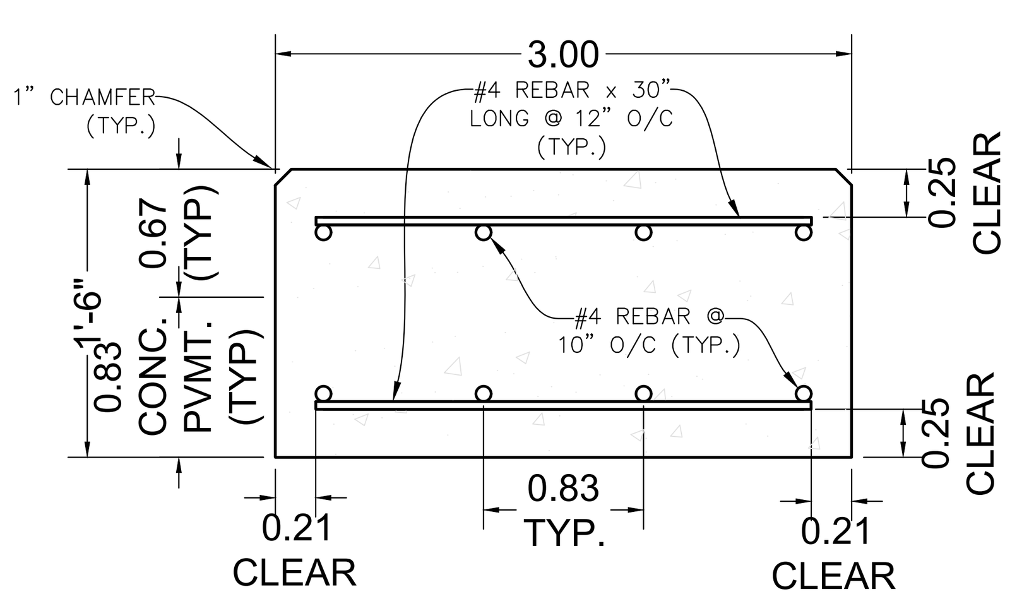
PARKING ENTRANCE/EXIT GATE DETAIL (2 / C3.0)
1/4" = 1'-0"



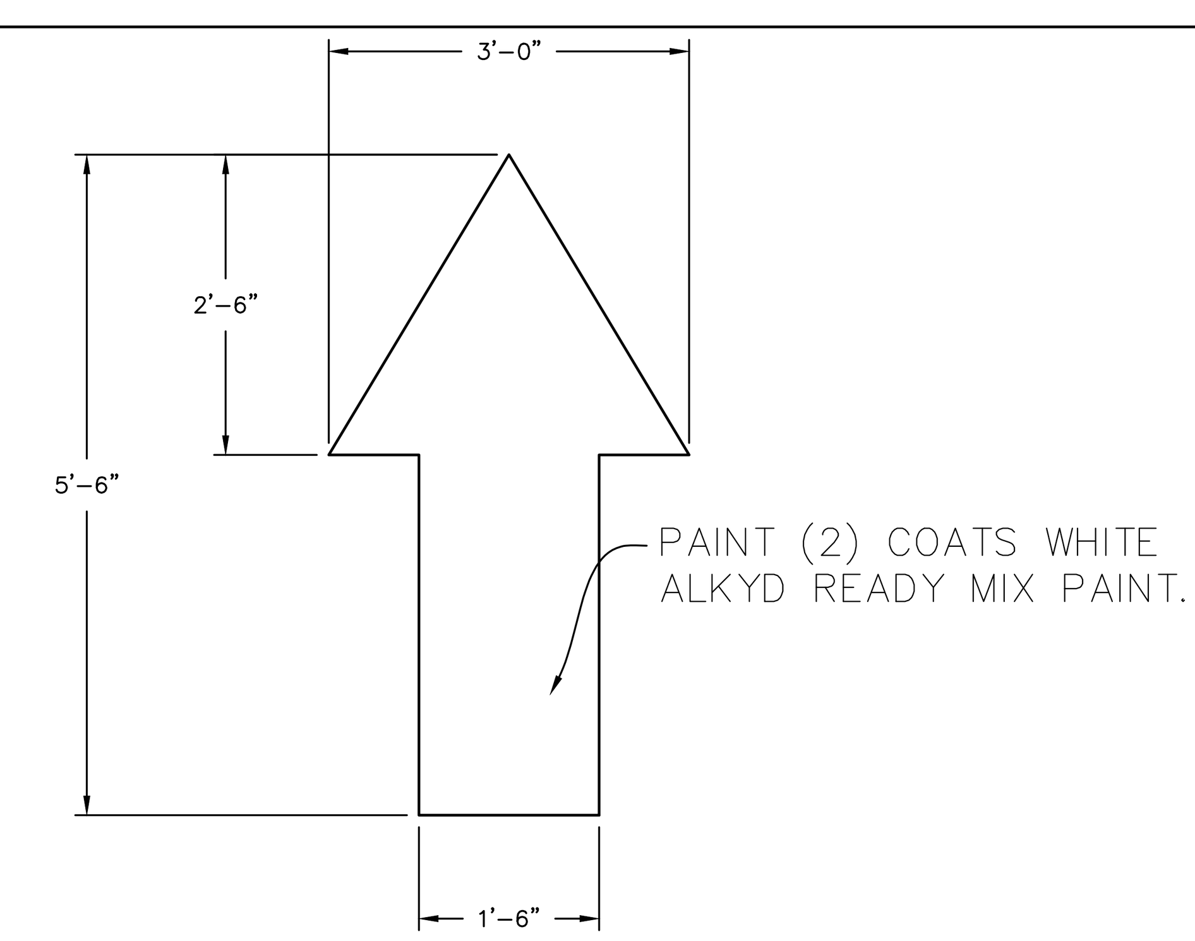
ENTRY/EXIT STATION ACCESSIBILITY SECTION (5 / C3.0)
N.T.S.



ELECTRIC CABINET DETAIL (8 / C3.0)
N.T.S.



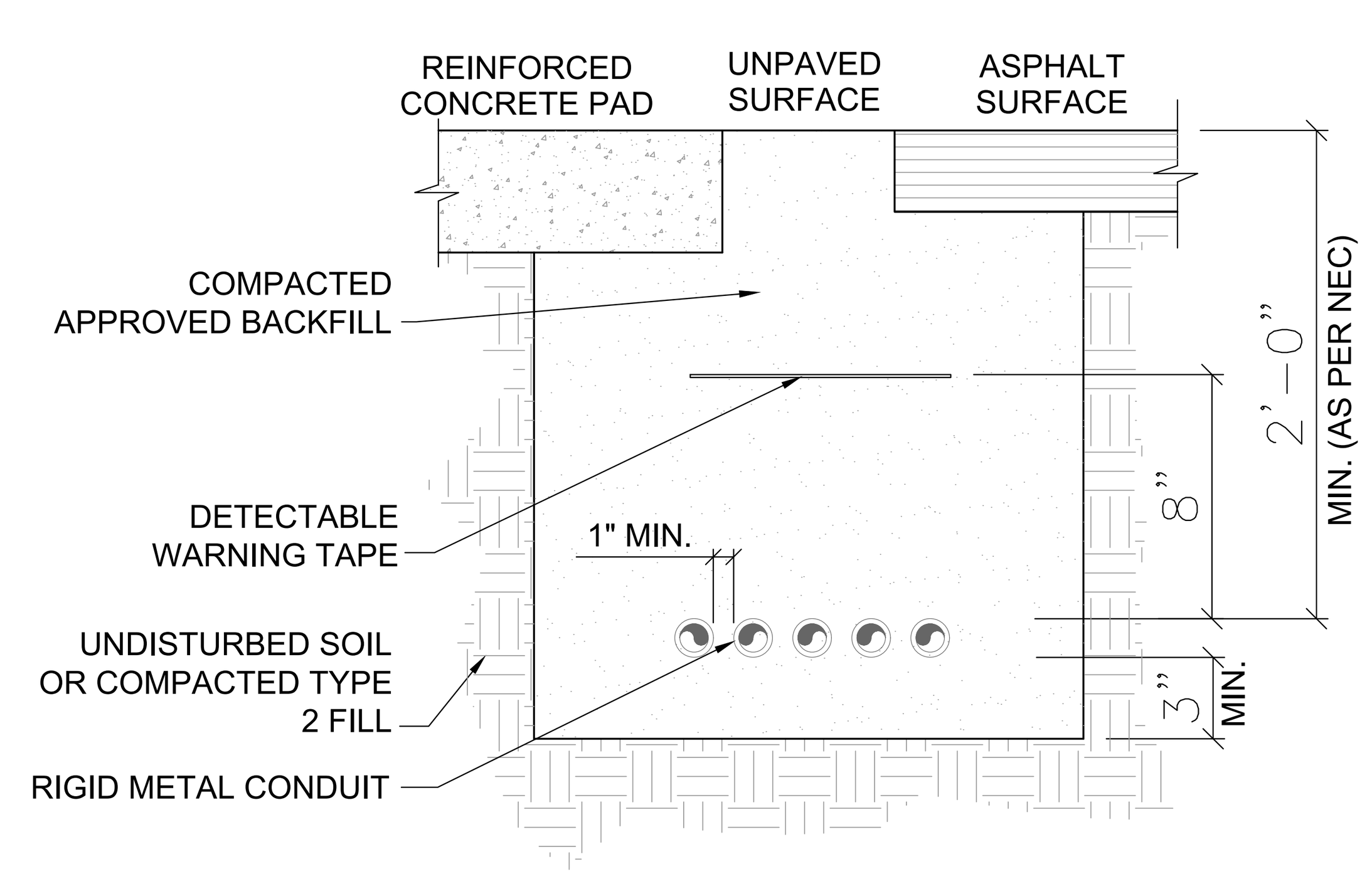
TYPICAL RAISED ISLAND DETAIL (3 / C3.0)
N.T.S.



NOTES

A. SEE SHEET **C1.1** FOR LOCATION AND DIRECTION OF ARROW.

DIRECTIONAL ARROW DETAIL (4 / C3.0)
1/4" = 1'-0"



MINIMUM MANUFACTURER'S BACKFILL REQUIREMENTS
CONDUIT TRENCH DETAIL (6 / C3.0)
N.T.S.

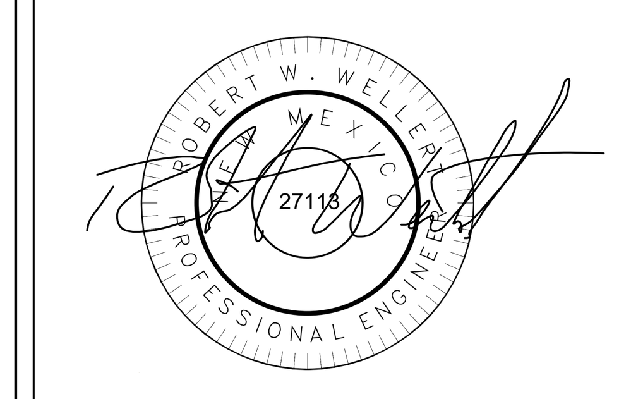
CLIENT:

TravelCenters of America
24601 CENTER RIDGE ROAD
SUITE 210
WESTLAKE, OHIO 44145

CONSULTANT:

Wellert
ENGINEERS • SURVEYORS
5136 Beach Road • Medina, Ohio 44256
t: 330.239.2699
WWW.WELLERT.COM
CELEBRATING 40 YEARS (1980-2020)

NO.	DATE	REVISION DESCRIPTION
0	06/10/2024	ISSUED FOR PERMIT



PROJECT TITLE

TA FACILITY #081
NEW PARKING GATE
NEW PARKING GATE SYSTEM

SITE ADDRESS:

2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87107

SCALE: N/A
DATE: 06/10/2024
DESIGNED BY: SMW
DRAWN BY: SMW
CHECKED BY: RWW
FILE NAME: 240117-C #081 Parking Gate.dwg
JOB NUMBER: 240117

DRAWING TITLE:

DETAILS & SPECIFICATIONS

SHEET NO:

C3.0

FEATURES

Driver Instruction Display	10.1" high-resolution color touch screen display
Ticket Issuing	Thermal ticket printer, roll supports up to 5,000 paper tickets
Card Holder Access	Bluetooth, Proximity, Mifare, AVI, barcode
LPR Imaging	Supported
Barcode Scanner	Reads multiple barcode formats - 1D & 2D, QR, PDF417, and more. Supports various barcode credentials via mobile device or paper
Data Line Surge Protection	Built-in
Heat and Thermostat	Supported
Hotel Room Keys	Supported
Pin Hole Camera	Built-in
Intercom	Built-in VoIP

OPERATIONS

Processor	High-speed embedded industrial processor
Operating System	O/S Less
Communication and Network	Native TCP/IP Ethernet, or RS-485 Communication
Built-In Clock	Lithium-ion battery
Off-Line Operation	Off-line functionality supported
Remote Monitoring	Real-time transaction and events monitoring via Facility Management System

HOUSING

Construction	Stainless steel
Measurements	14.9" (38 cm) width; 13.1" (33.4 cm) depth; 49.9" (126.8 cm) height
Weight	Dependent on components selected
Color (Housing)	Standard: White RAL 9010
Faceplate	High-grade epoxy-based TIBA standard or custom design
Locks	Keyed device lock

ELECTRICAL

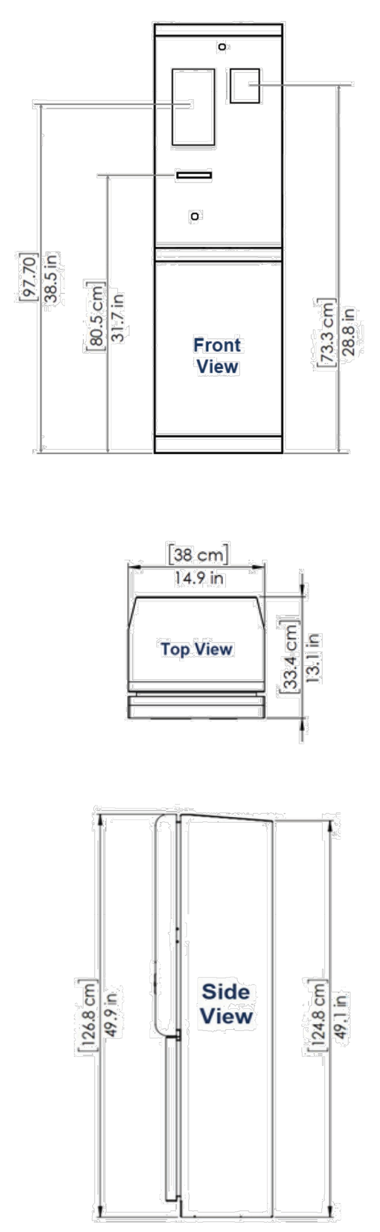
Voltage	100 – 240 VAC 50-60 HZ
Current	6.5A approximate max. (with heater)
Power Consumption	640W (with heater)

ENVIRONMENTAL CONDITIONS

Operating Temperature	-4° to 122° F (-20° to 50°C) with heater
IP Rating	54

REGULATORY

Safety • UL 60950-1:2007
• CAN/CSA-C22.2 No. 60950-1-07
EMC • CE, FCC Part 15, Subpart B, Class B



TIBA PARKING SYSTEMS | A Brand of FAAC Technologies
www.tibaparking.com
USA
2228 Citygate Drive, Columbus, Ohio 43219
T. +1 614 328 2040 • F. +1 614 864 2153
ISRAEL
17 Ha-Mefalsim Street, Petah-Tikva 4951251
T. +972 3619 9777 • F. +972 3 905 4306

TIBA MP-60 ENTRY STATION DETAIL
N.T.S.
1 / C3.1

FEATURES

Driver Instruction Display	10.1" high-resolution color touch screen display
Ticket Verifier	Barcode scanning or motorized barcode ticket reader
Card Holder Access	Bluetooth, Proximity, Mifare, AVI, barcode
LPR Imaging	Supported
Barcode Scanner	Reads multiple barcode formats - 1D & 2D, QR, PDF417, and more. Supports various barcode credentials via mobile device or paper
Receipt Printer	For receipts and lost tickets
Data Line Surge Protection	Built-in
Heat and Thermostat	Supported
Hotel Room Keys	Supported
Pin Hole Camera	Built-in
Intercom	Built-in VoIP
Credit Card Payments	Magstripe, P2PE EMV with or without pin pad, NF

OPERATIONS

Processor	High-speed embedded industrial processor
Operating System	O/S Less
Communication and Network	Native TCP/IP Ethernet, or RS-485 Communication
Built-In Clock	Lithium-ion battery
Off-Line Operation	Off-line functionality supported
Remote Monitoring	Real-time transaction and events monitoring via Facility Management System

HOUSING

Construction	Stainless steel
Measurements	14.9" (38 cm) width; 13.1" (33.4 cm) depth; 49.9" (126.8 cm) height
Weight	Dependent on components selected
Color (Housing)	Standard: White RAL 9010
Faceplate	High-grade epoxy-based TIBA standard or custom design
Locks	Keyed device lock

ELECTRICAL

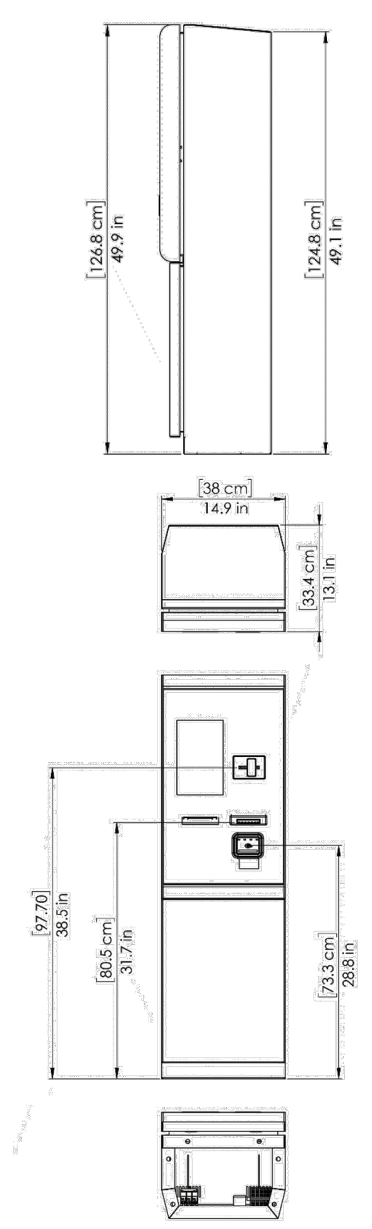
Voltage	100 – 240 VAC 50-60 HZ
Current	6.5A approximate max. (with heater)
Power Consumption	650W (with heater)

ENVIRONMENTAL CONDITIONS

Operating Temperature	-4° to 122° F (-20° to 50°C) with heater
IP Rating	54

REGULATORY

Safety • UL 60950-1:2007
• CAN/CSA-C22.2 No. 60950-1-07
EMC • CE, FCC Part 15, Subpart B, Class B



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TIBA SW-60 EXIT STATION DETAIL
N.T.S.
2 / C3.1

FEATURES

Opening/Closing Time	1.3 Seconds
Lane Width	10 or 12 ft (3m or 3.6m)
MicroBoom 12 ft	Standard
Articulated Boom	Optional
Control Unit Modularly Extendable	Standard
Integrated 2-Channel Loop Detector	Standard
Additional 2-Channel Loop Detector	Optional
Integrated Serial Communication	Standard
Variable I/O Allocation	Standard
Opening/Closing Times Selectable	Standard
Number of Digital Inputs	8
Number of Relay/Digital Outputs	6/4
Solar/Battery Option	Optional

OPERATIONS

Drive Unit	MHTM™ MicroDrive
Embedded Control Unit	MGC Pro
Specified Number of Cycles	10 Mio
Duty Cycle	100%

HOUSING

Housing Design	Powder-coated aluminum
Base Frame	Powder-coated stainless steel
Measurements	12.4" (31.5 cm) width; 13.6" (34.5 cm) depth; 43.9" (111.5 cm) height
Weight Without Boom	97 Lbs. (44 kg)
Standard Colors	RAL 9010

ELECTRICAL

Supply Voltage	85-264 VAC 50-60HZ
Power Consumption Max.	95 W
Current	1.2A

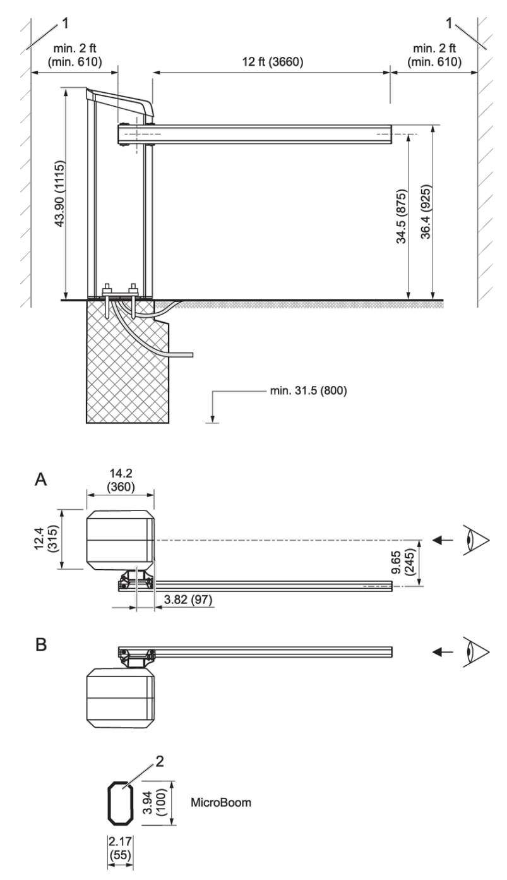
ENVIRONMENTAL CONDITIONS

Operating Temperature	-22° to 131° F (-30° to 55° C)
Water Rating	IP 54

REGULATORY

reddot design award winner 2012

Safety • UL 325 C22.2 No. 247, CE, 2004/108/EG, 2006/42/EG, 305/2011
EMC • FCC Part 15, Subpart B



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TIBA PARKING PRO-M DETAIL
N.T.S.
3 / C3.1

Type 1, 3, & 3R Enclosures

Type 1, 3, & 3R Enclosures

Panel Enclosures
Type 3R Large Continuous Hinge Cover
Data Sheet and Catalog Number

Application
- Used as wiring boxes, junction and pull boxes
- Protects against falling rain, sleet and external ice formation

Standards
- UL 50 listed, Type 3R
- CSA C22.2 No. 40 certified, Type 3R
- Conforms to NEMA standard for Type 3R

Construction
- Enclosure and door are fabricated from code gauge galvaneal steel, (see below)
- Enclosure standard without knockouts
- Door is secured to the body with a continuous hinge and stainless steel pin on one side and captive screws on the opposite side
- Door has padlock hasp with sealing hole provision
- .375-16 collar studs are furnished for mounting optional panel
- External mounting feet are provided for secure wall mounting
- Ground stud provided on door

Finish
- Wash and phosphate undercoat
- ANSI 61 gray polyester powder finish

Accessories
- Panels
- Touch-up paint
- See Accessories section

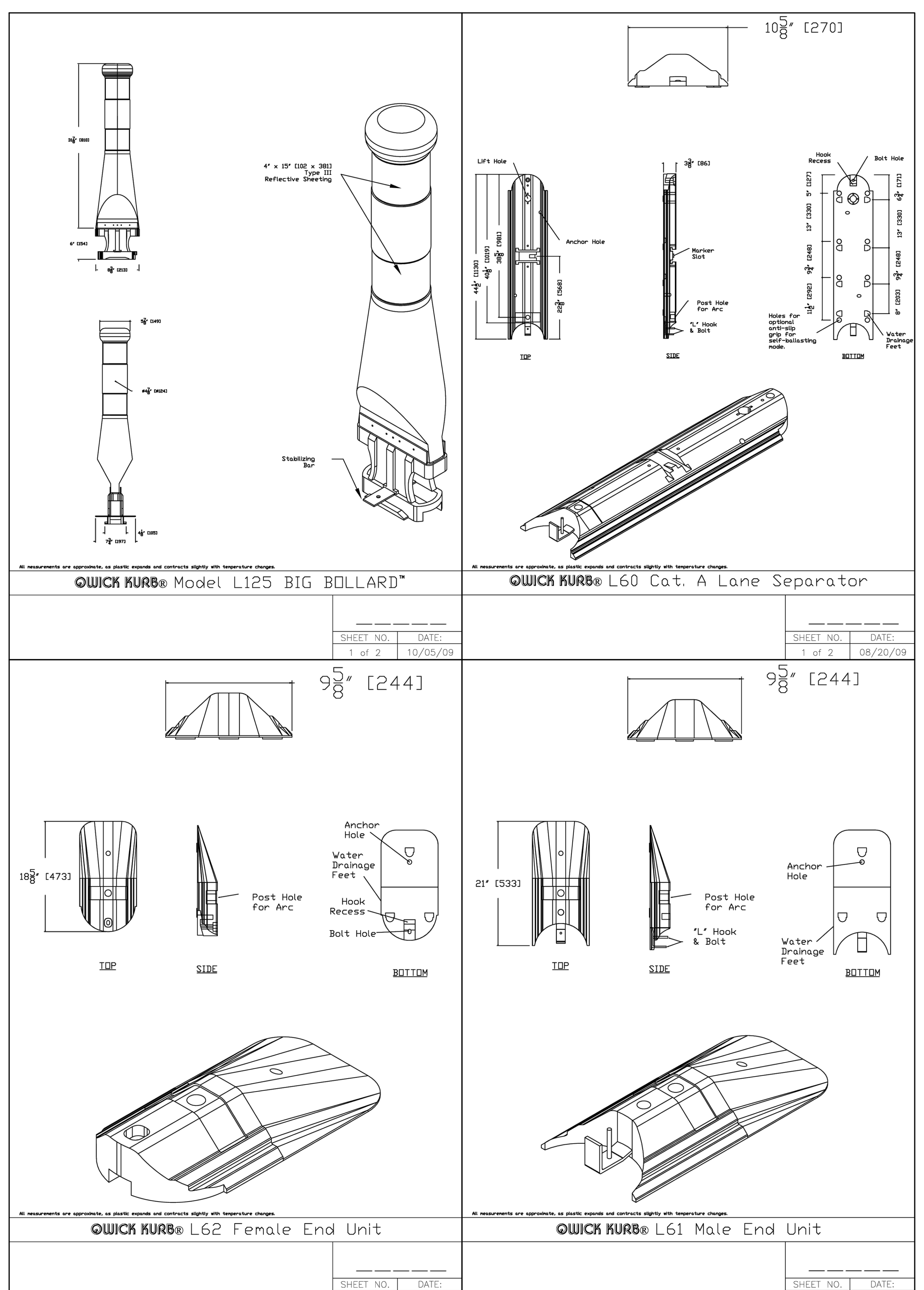
Discount Schedule: A2
Subclass: AU0

Enclosure Catalog Number	Enclosure Size Height x Width x Depth A x B x C in.	mm	D in.	D mm	Gauge	Panel Catalog Number	Panel Size Height x Width in.	mm
16126RHC	16.00 x 12.00 x 6.00	406 x 305 x 152	5.00	127	16	N1612P	13.00 x 9.00	330 x 229
16166RHC	16.00 x 16.00 x 6.00	406 x 406 x 152	9.00	229	16	N1616P	13.00 x 13.00	330 x 330
18186RHC	18.00 x 18.00 x 6.00	457 x 457 x 152	13.00	330	16	N1818P	15.00 x 15.00	381 x 381
181810RHC	18.00 x 18.00 x 10.00	457 x 457 x 254	13.00	330	16	N1818P	15.00 x 15.00	381 x 381
20166RHC	20.00 x 16.00 x 6.00	508 x 406 x 152	9.00	229	16	N2016P	17.00 x 13.00	432 x 330
20208RHC	20.00 x 20.00 x 8.00	508 x 508 x 203	13.00	330	16	N2020P	17.00 x 17.00	432 x 432
24208RHC	24.00 x 20.00 x 8.00	610 x 508 x 203	13.00	330	16	N2420P	20.87 x 16.87	530 x 428
24248RHC	24.00 x 24.00 x 8.00	610 x 610 x 203	17.00	432	14	N2424P	20.87 x 20.87	530 x 530
242410RHC	24.00 x 24.00 x 10.00	610 x 610 x 254	17.00	432	14	N2424P	20.87 x 20.87	530 x 530
30248RHC	30.00 x 24.00 x 8.00	762 x 610 x 203	17.00	432	14	N3024P	26.87 x 20.87	682 x 530
302410RHC	30.00 x 24.00 x 10.00	762 x 610 x 254	17.00	432	14	N3024P	26.87 x 20.87	682 x 530
30308RHC	30.00 x 30.00 x 8.00	762 x 762 x 203	17.00	432	14	N3030P	26.87 x 26.87	682 x 682
303012RHC	30.00 x 30.00 x 12.00	762 x 762 x 305	27.00	432	14	N3030P	26.87 x 26.87	682 x 682
303016RHC	30.00 x 30.00 x 16.00	762 x 762 x 406	27.00	432	14	N3030P	26.87 x 26.87	682 x 682
362412RHC	36.00 x 24.00 x 12.00	914 x 610 x 305	17.00	432	14	N3624P	32.87 x 20.87	835 x 530
363012RHC	36.00 x 30.00 x 12.00	914 x 762 x 305	27.00	432	14	N3630P	32.87 x 26.87	835 x 682
363610RHC	36.00 x 36.00 x 10.00	914 x 914 x 254	27.00	432	14	N3636P	32.87 x 32.87	835 x 835
363612RHC	36.00 x 36.00 x 12.00	914 x 914 x 305	27.00	432	14	N3636P	32.87 x 32.87	835 x 835
423012RHC	42.00 x 30.00 x 12.00	1067 x 762 x 305	27.00	432	14	N4230P	38.87 x 26.87	987 x 682
423612RHC	42.00 x 36.00 x 12.00	1067 x 914 x 305	27.00	432	14	N4236P	38.87 x 32.87	987 x 835
483612RHC	48.00 x 36.00 x 12.00	1219 x 914 x 305	27.00	432	14	N4836P	44.87 x 32.87	1140 x 835
483616RHC	48.00 x 36.00 x 16.00	1219 x 914 x 406	27.00	432	14	N4836P	44.87 x 32.87	1140 x 835
603612RHC	60.00 x 36.00 x 12.00	1524 x 914 x 305	27.00	432	14	N6036P	56.87 x 32.87	1444 x 835

Notes: We can provide special sizes, finishes and other modifications. Consult the factory for your special requirements. Dimensions are in inches. Millimeters shown are for reference only. Data subject to change without notice.

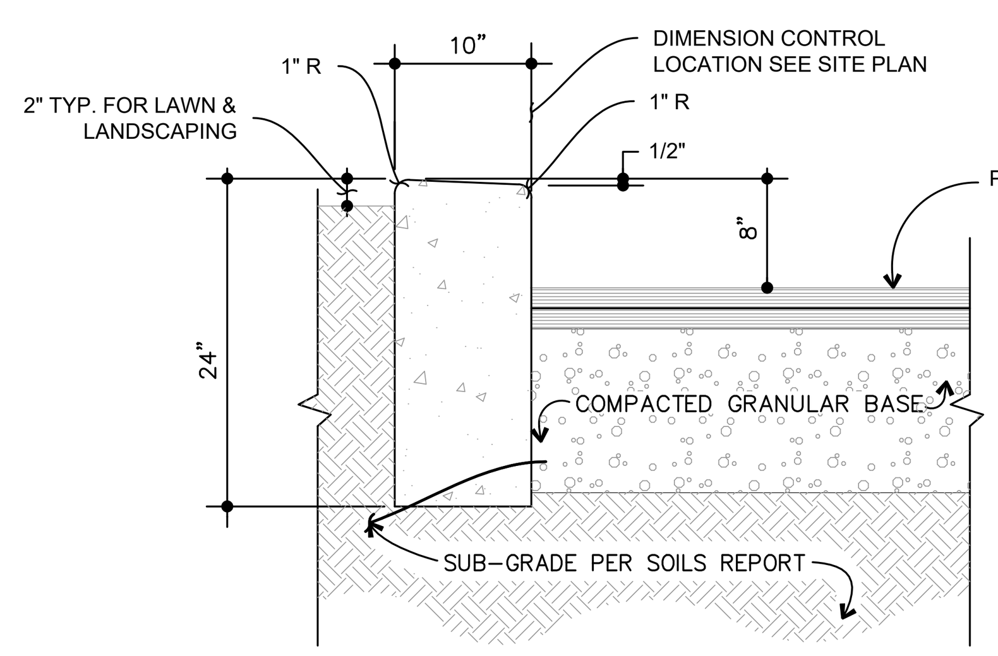
Eaton 74 B-Line series electrical enclosures

C3R POWER PANEL DETAIL
N.T.S.
7 / C3.1



QUICK KURB® Model L125 BIG BOLLARD™
QUICK KURB® L60 Cat. A Lane Separator
QUICK KURB® L62 Female End Unit
QUICK KURB® L61 Male End Unit

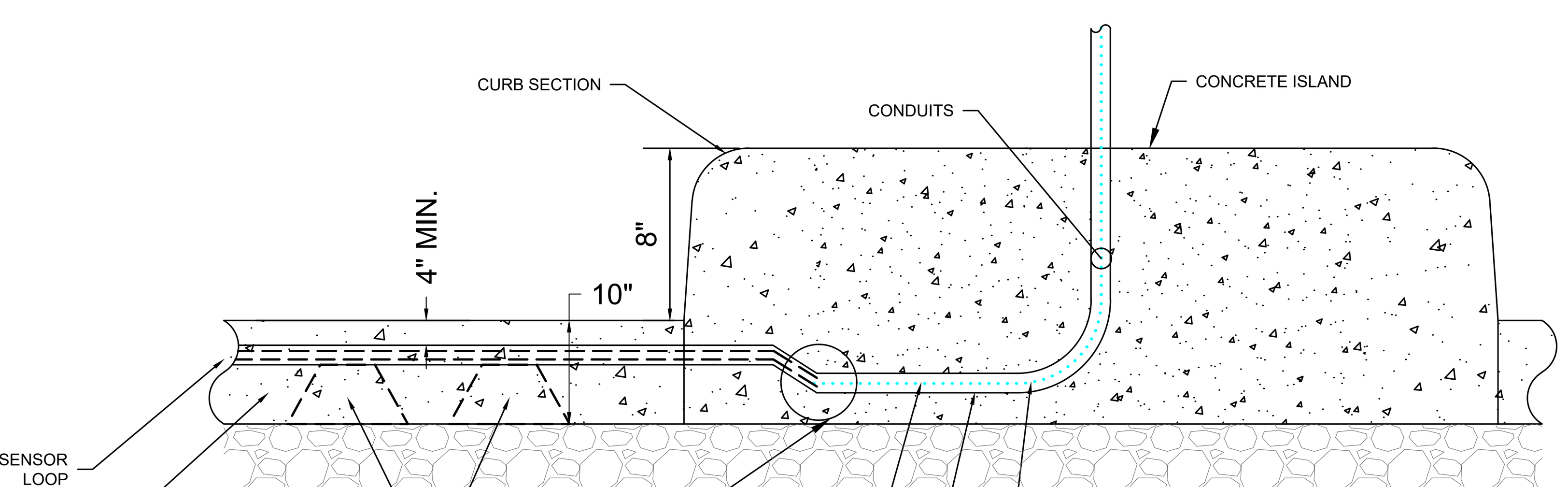
DELINEATOR DETAIL
N.T.S.
6 / C3.1



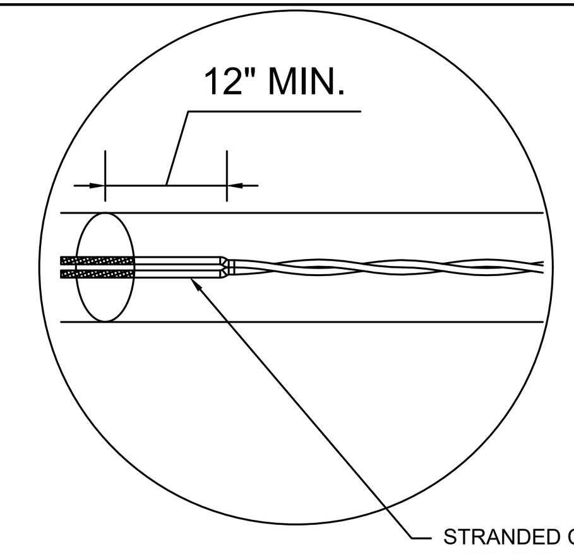
CURB NOTES

1. REMOVE FORMS AS EARLY AS POSSIBLE. BRUSH TOP AND FACE OF CURBS TO REMOVE ALL IMPERFECTIONS, TYPICAL OF ALL FORM WORK.
2. ALL CURB RADII SHALL BE TRUE ARCS.
3. PROVIDE LIGHT BROOM FINISH ON ALL EXTERIOR CONCRETE.
4. PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAXIMUM FOR 8" CURB AND ½" PREFORMED EXPANSION JOINTS AT 50' O.C. MAX.
5. CURB TO MATCH EXISTING PROFILE AND DIMENSIONS OF ADJOINING EXISTING CURB.

6 / C3.1 **8" HIGH STANDARD HEADER CURB**
SCALE: N.T.S.



NO LOOP LEADS THROUGH TURNING RADIUS

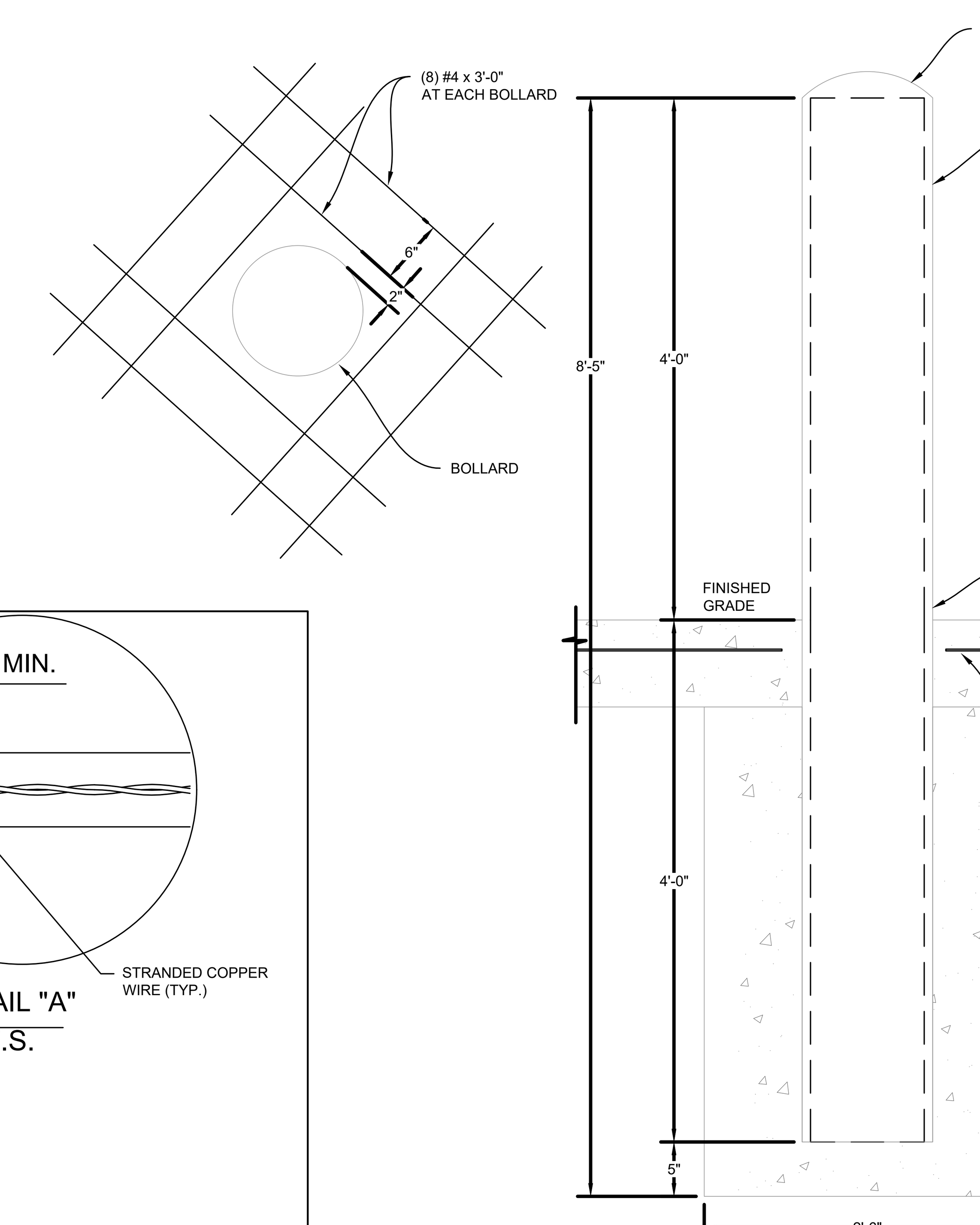


DETAIL "A"
N.T.S.

NOTES:

- NO PART OF THE LOOP CAN BE WITHIN 18" OF AC POWER RUNS (OVER/UNDER/ADJACENT).
- ONE LOOP LEAD IN PER CONDUIT ONLY.
- NO REBAR OR METAL WITHIN 18".
- CONTRACTOR TO INSTALL THE LOOP SENSOR USING POLYPRYLENE SUPPORT CHAIRS PRIOR TO CONCRETE INSTALLATION.

TYPICAL INDUCTIVE LOOP DETECTOR DETAIL
N.T.S.
5 / C3.1



12"ø STEEL BOLLARD DETAIL
N.T.S.
4 / C3.1

CLIENT:

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ROBERT W. WELLERT
NEW MEXICO
27113
PROFESSIONAL ENGINEER

PROJECT TITLE:
TA FACILITY #081
NEW PARKING GATE
NEW PARKING GATE SYSTEM

SITE ADDRESS:
2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO
87107

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DETAILS & SPECIFICATIONS

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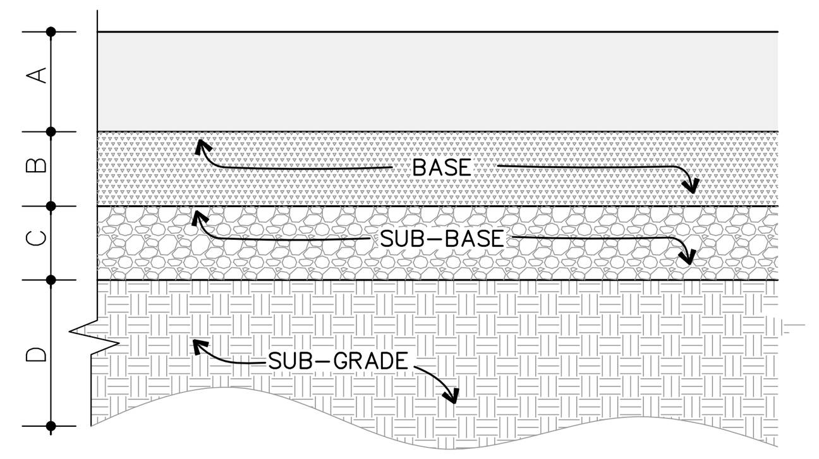


CONCRETE NOTE:

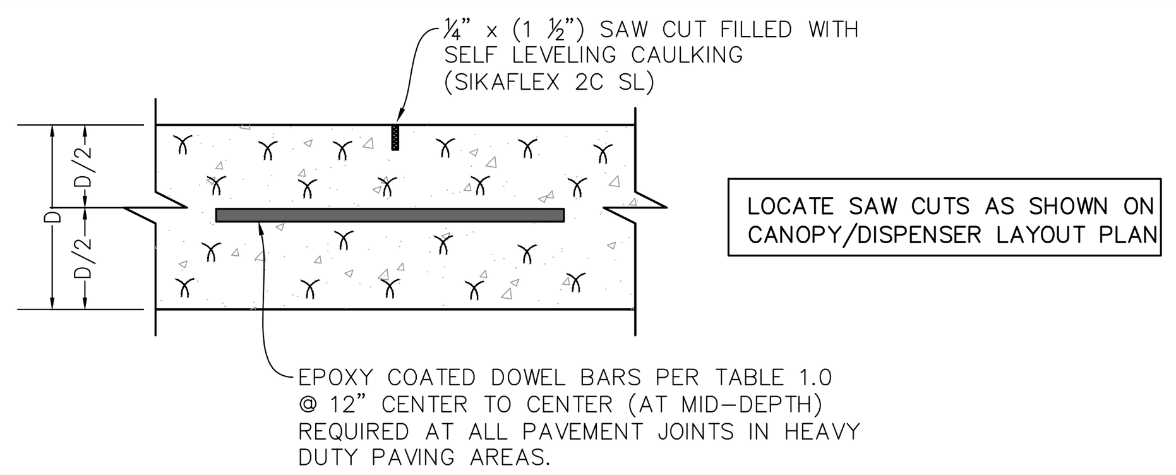
ALL CONCRETE IS TO BE REINFORCED USING FORTA-FERRO MACRO-SYNTHETIC FIBERS, 2-¼ INCHES LONG AT 6 POUNDS PER CUBIC YARD (OR EQUAL).

CONCRETE PAVEMENT DESIGN THICKNESS	
PAVEMENT MATERIALS	**DESIGN THICKNESS**
A - CONCRETE PAVEMENT (SEE NOTES THIS SHEET)	10.0 INCHES HEAVY DUTY AREAS
B- TxDOT 247, GRADE 2, TYPE D	8.0 INCHES HEAVY DUTY AREAS
C - NOT REQUIRED	
D - SOIL COMPACTED PER SPECIFICATION	

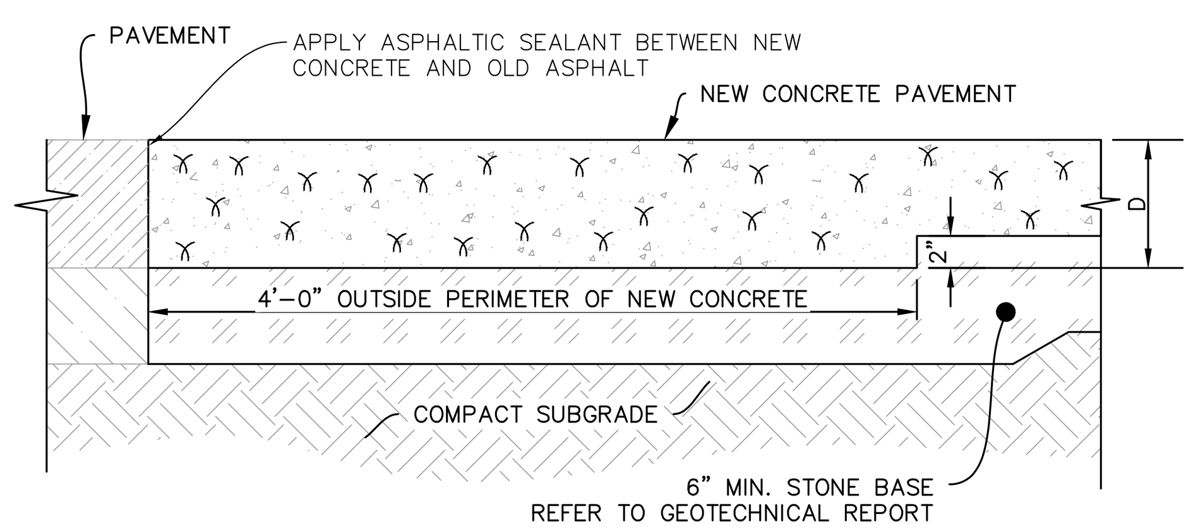
PAVING NOTES

1. COMPACT SUB-BASE TO 90% RELATIVE DENSITY PER ASTM D-4253
2. COMPACT SUB-GRADE TO 98% STANDARD PROCTOR PER ASTM D-698.
3. SUBGRADE MUST PASS PROOF ROLL TESTS PRIOR TO ACCEPTANCE.

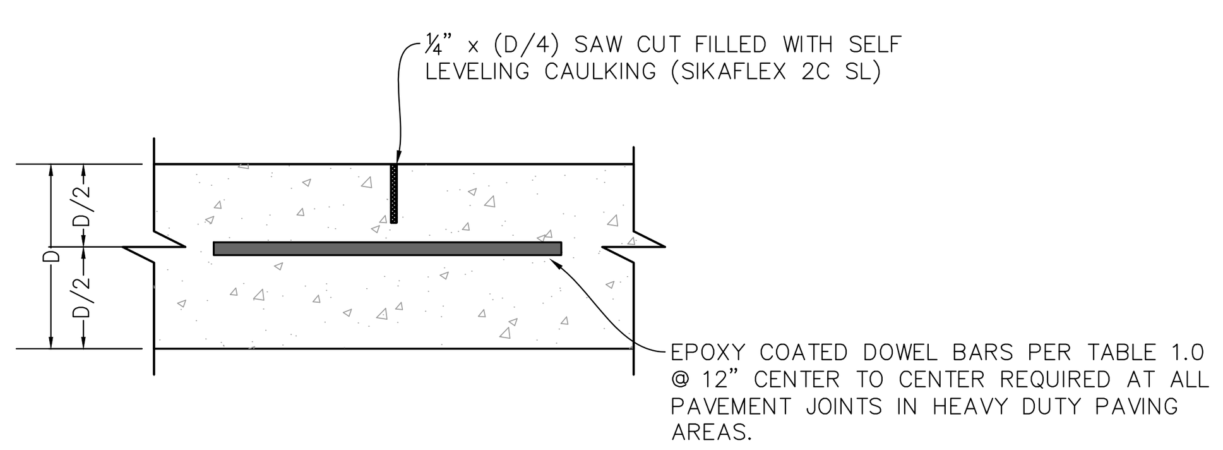
CONCRETE PAVING SECTION DETAIL — 1 / C3.2
N.T.S.



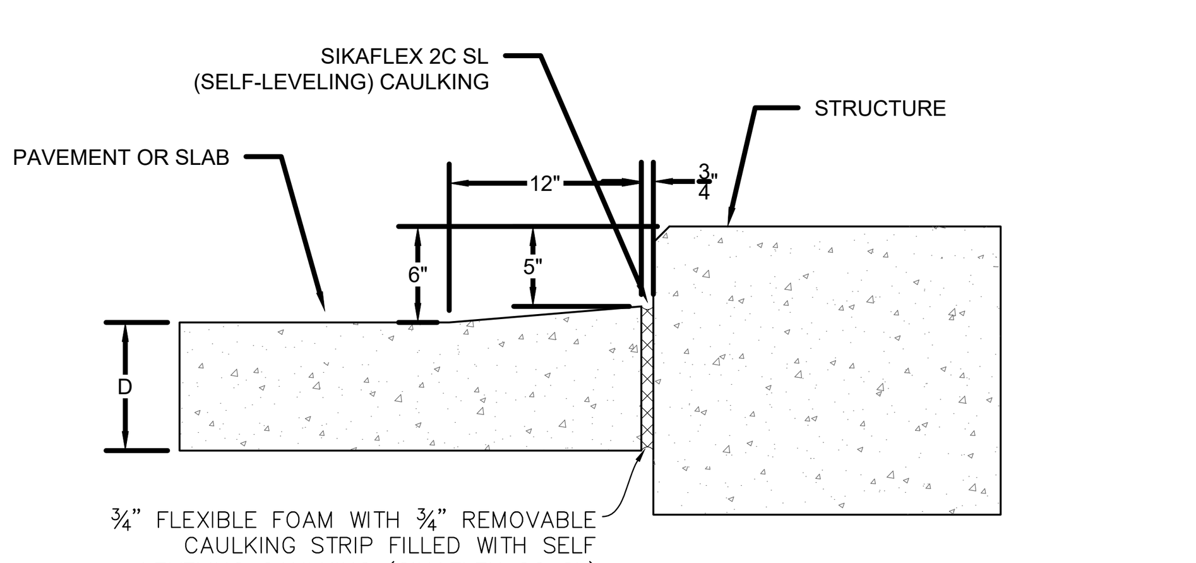
CONCRETE PAVEMENT SAW CUT CONTROL JOINT — 2 / C3.2
N.T.S.



OUTSIDE PERIMETER OF NEW CONCRETE — 3 / C3.2
N.T.S.

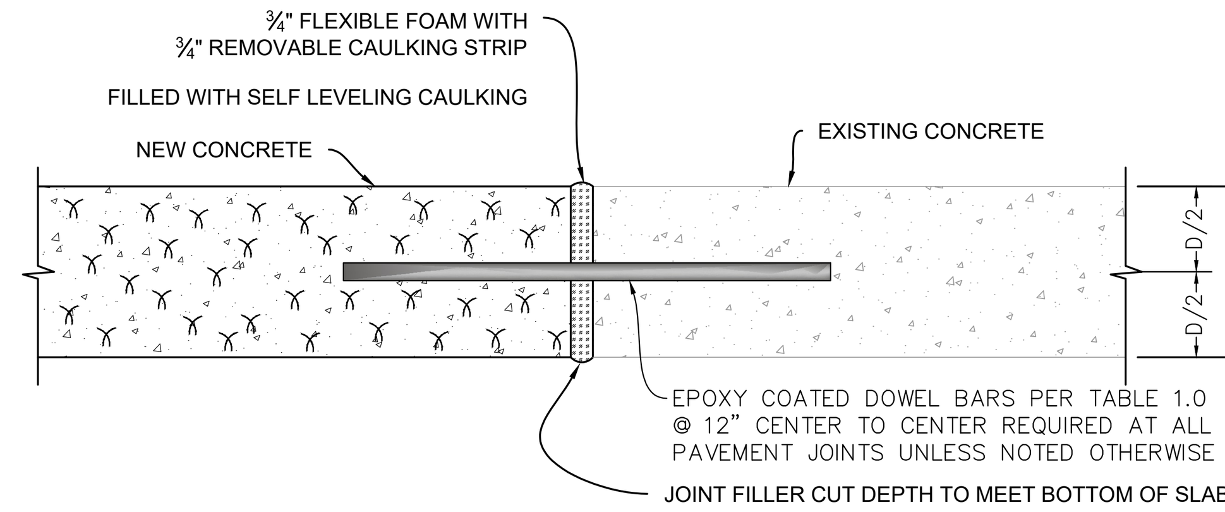


CONCRETE CONTROL JOINTS — 4 / C3.2
N.T.S.



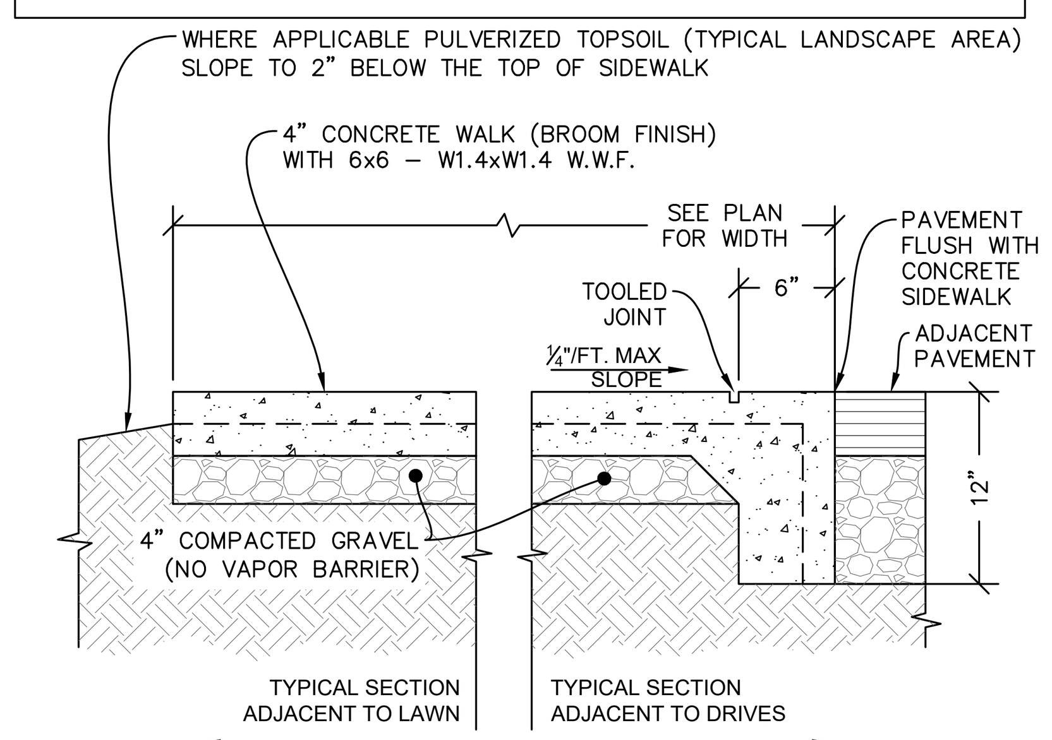
*THE 1 INCH "TURN UP" AT STRUCTURES IS NOT INDICATED AS PART OF THE ELEVATIONAL DATA AS SHOWN ON THE GRADING PLAN

TYPICAL PAVEMENT/SLAB TURN UP AT STRUCTURES — 9 / C3.2
SCALE: 1" = 1'- 0"



NEW CONCRETE PAVEMENT & EXISTING CONCRETE CONSTRUCTION JOINT — 5 / C3.2
N.T.S.

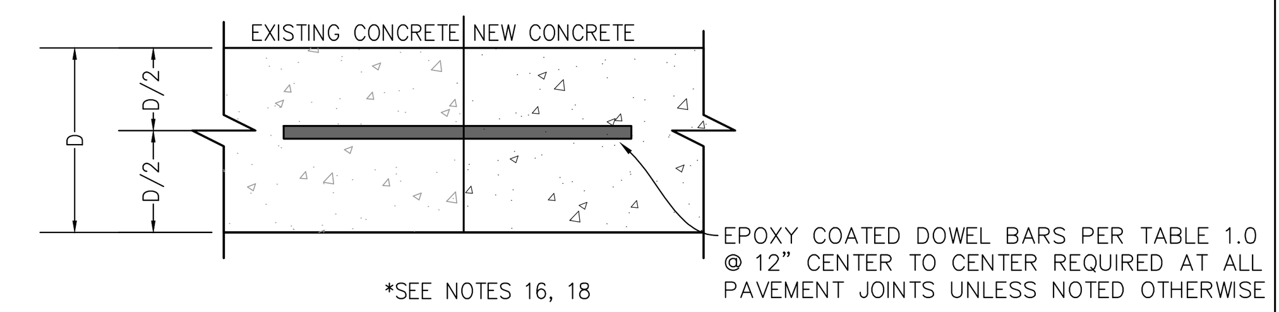
STOOP NOTE:
REFER TO CIVIL DRAWINGS FOR DOOR STOOP LOCATIONS. DOWEL DOWNTURNED SLAB INTO EXISTING FOUNDATION W/ #4 DEFORMED STEEL REINFORCING BARS x 12" LONG (6" EMBED EACH SIDE) AT 12" O.C. GROUT FULL.



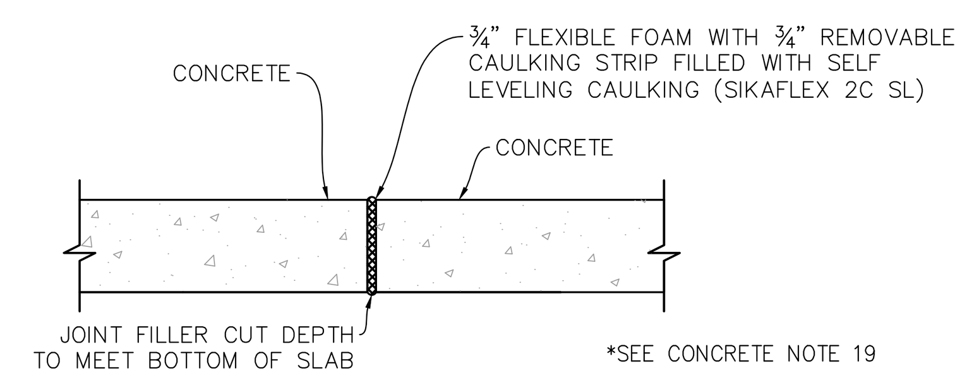
CONCRETE WALK DETAIL — 6 / C3.2
N.T.S.

NOTES

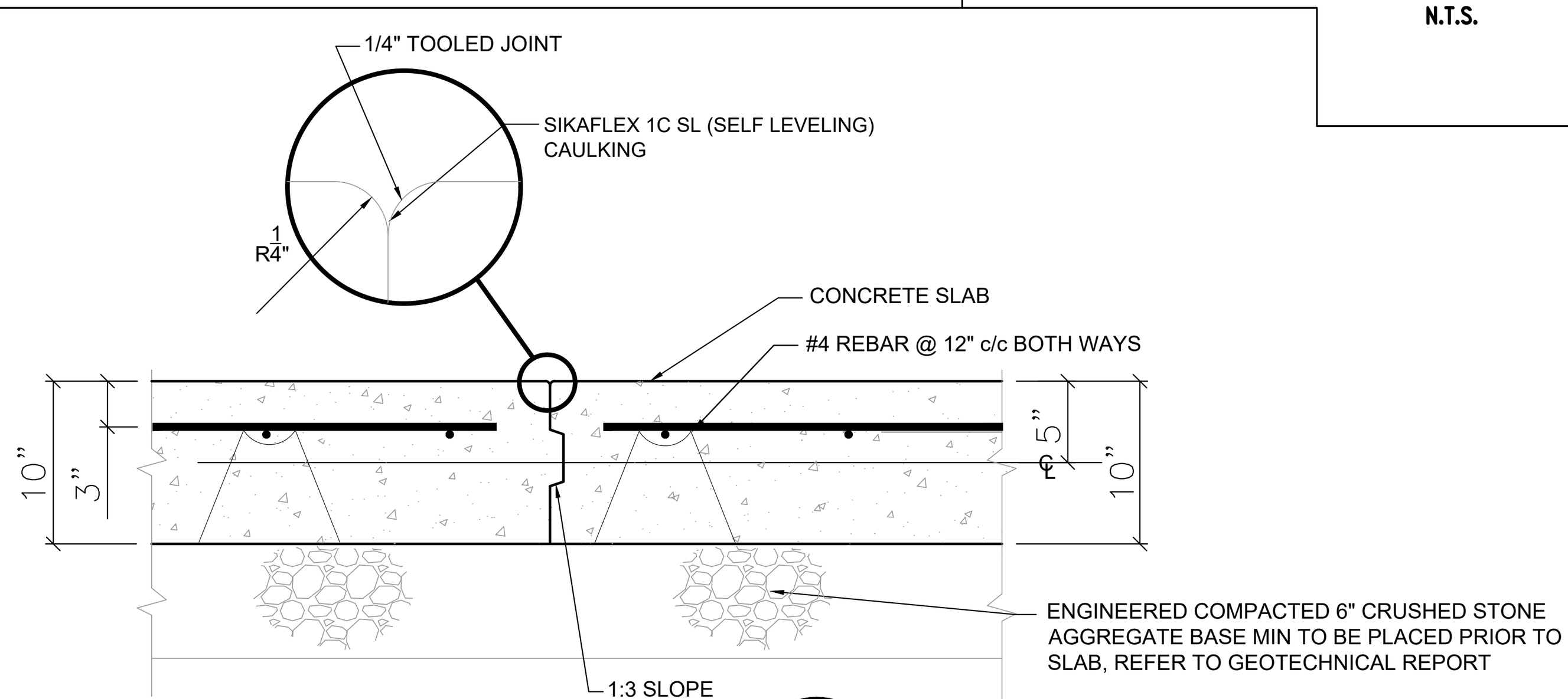
1. CONTROL JOINTS TO BE PLACED AT SPACING EQUAL TO SIDEWALK WIDTH
2. PLACE PREFORMED EXPANSION JOINTS AT 20' O.C. MAX.
3. WHEN WALK IS ADJACENT TO THE BUILDING PROVIDE ½" PREFORMED EXPANSION JOINT.
4. REFER TO CIVIL DRAWINGS FOR SIDEWALK GRADES.



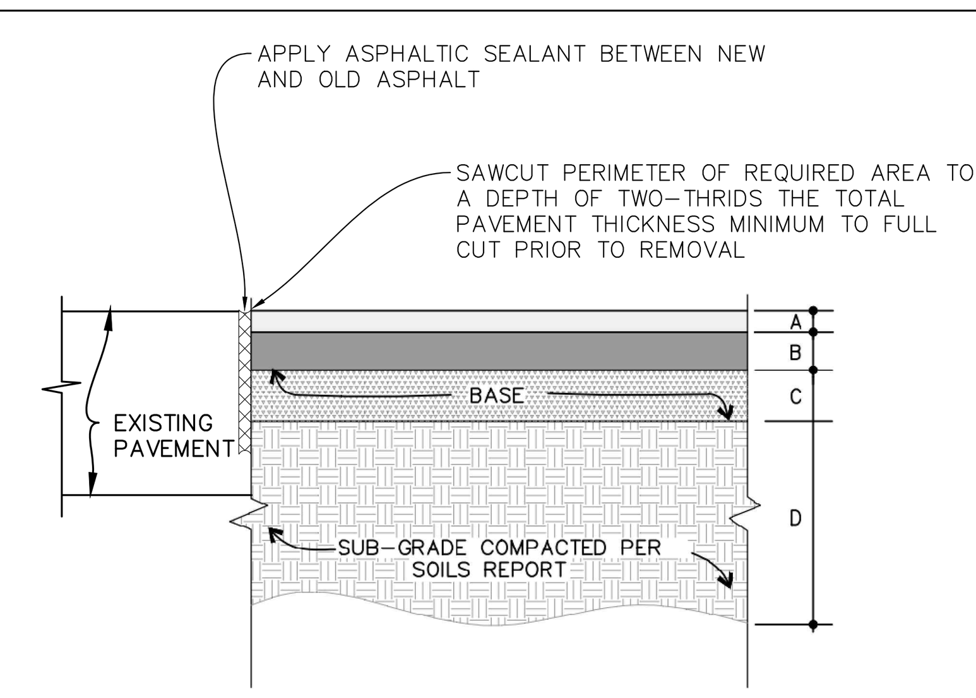
CONCRETE CONSTRUCTION JOINTS — 7 / C3.2
N.T.S.



CONCRETE ISOLATION JOINTS — 8 / C3.2
N.T.S.



KEYED CONSTRUCTION JOINT — 9 / C3.2
N.T.S.

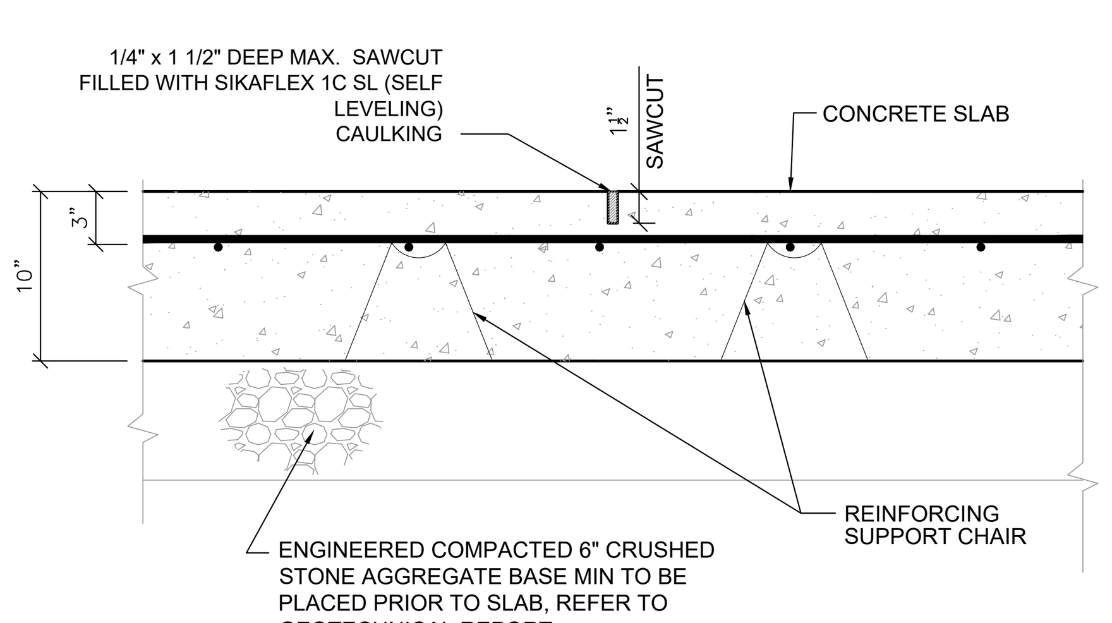


FLEXIBLE PAVEMENT DESIGN THICKNESS	
PAVEMENT MATERIALS	**DESIGN THICKNESS**
A,B,C - HOT MIX ASPHALT CONCRETE ITEM 340, TxDOT - TYPE D	8.0 INCHES
D - TxDOT 247, GRADE 2, TYPE D	8.0 INCHES

PAVING NOTES

1. ALL CONSTRUCTION TO CONFORM TO THE LATEST VERSION OF THE STATE DOT REQUIREMENTS.
2. COMPACT SUB-BASE TO 90% RELATIVE DENSITY PER ASTM D1557. COMPACT SUB-GRADE TO 98% STANDARD PROCTOR PER ASTM D-698.
3. SUBGRADE MUST PASS PROOF ROLL TESTS PRIOR TO ACCEPTANCE.

TYPICAL ASPHALT REPAIR DETAIL — 10 / C3.2
N.T.S.



CONCRETE PAVEMENT SAWCUT DETAIL — 11 / C3.2
N.T.S.

TABLE 1.0 CONCRETE JOINTS - DOWEL REQUIREMENTS				
SLAB THICKNESS (IN.)	DOWEL DIAMETER (IN.)	MIN. DOWEL EMBEDMENT EACH SIDE (IN.)	MIN. DOWEL LENGTH (IN.)	DOWEL SPACING ON-CENTERS (IN.)
6.0	¾	6	14	12
7.0	1	8	18	12
8.0	1⅛	8	18	12
≥ 9.0	1¼	8	18	12

ALL DOWELS ARE TO BE EPOXY-COATED AND COVERED WITH BOND BREAKER
DOWELS ARE NOT REQUIRED IN PAVEMENT DEPTHS < 6.0".

TABLE 2.0 CONTROL JOINT SPACING - UNREINFORCED CONCRETE		
CONTROL JOINT SPACING MAX. (FEET)	CONCRETE THICKNESS (INCHES)	SAW CUT MINIMUM (INCHES)
8.0	4	¼ x 1
10.0	5	¼ x 1 ¼
12.0	6	¼ x D/4*
14.0	7	¼ x D/4*
16.0	8	¼ x D/4*
18.0	9	¼ x D/4*
20.0	10	¼ x D/4*

JOINTS ARE TO BE CUT TO PROVIDE SQUARE SECTIONS AS MUCH AS POSSIBLE. MAXIMUM PANEL LENGTH TO WIDTH RATIO IS 1.50.

*D = CONCRETE THICKNESS

CONCRETE NOTES

1.0 GENERAL

1.1 THE REQUIREMENTS OF THE STATE BUILDING CODE, THE AMERICAN CONCRETE INSTITUTE (ACI) AND STATE DEPARTMENT OF TRANSPORTATION (DOT) APPLY TO ALL NEW CONCRETE CONSTRUCTION UNLESS OTHERWISE NOTED (LATEST REVISIONS).

1.2 ALL CONCRETE WORK SHALL CONFORM TO THE LATEST APPROVED EDITIONS OF THE FOLLOWING ACI DOCUMENTS:

ACI 211.1-91	PROPORTIONS OF CONCRETE
ACI 214R-11	GUIDE TO CONCRETE STRENGTH EVALUATIONS
ACI 301-16	SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
ACI 304R-00 & ACI 302.1R-15	FLOOR AND SLAB CONSTRUCTION
ACI 304.6R-09	MEASURING & MIXING CONCRETE
ACI 305.1-4 & ACI 305R-10	HOT WEATHER CONCRETE
ACI 306.1-90 & ACI 306R-16	COLD WEATHER CONCRETE
ACI 308.1-11 & ACI 308R-16	CURING CONCRETE
ACI 309R-05	CONCRETE CONSOLIDATION
ACI 318-14	BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
ACI 325.9R-15	CONCRETE PAVEMENTS
ACI 325.12R-02	JOINTED CONCRETE PAVEMENTS
ACI 330.2R-17	CONCRETE DESIGN GUIDE FOR TRUCK FACILITIES
ACI 347R-13	FORMWORK

1.3 ALL CONCRETE WORK SHALL CONFORM TO THE LATEST APPROVED EDITIONS OF ASTM:

ASTM C31	FIELD CYLINDER SPECIMENS
ASTM C39	LAB TESTING CYLINDER
ASTM C42	HARDENED CORES
ASTM C78	FLEXURAL STRENGTH TESTING OF CONCRETE
ASTM C94	READY MIX CONCRETE
ASTM C143	SLUMP TEST
ASTM C172	SAMPLING FRESH CONCRETE
ASTM C231	AIR CONTENT
ASTM C260	AIR ENTRAINMENT
ASTM C494	WATER REDUCER

2.0 MIXING

2.1 CONCRETE MIX DESIGN - MIX DESIGN SHALL BE ESTABLISHED BY THE CONCRETE SUPPLIER BASED ON A PROVEN STRENGTH RECORD FOR CONCRETE MADE WITH SIMILAR INGREDIENTS AND SHALL CONFORM TO ACI 211, EXCEPT AS SPECIFIED HEREIN, USING APPROVED MATERIALS.

2.2 CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER 72 HOURS PRIOR TO USE. OBTAIN ENGINEER'S APPROVAL BEFORE USING CONCRETE ADMIXTURES. USE OF CALCIUM CHLORIDE WILL NOT BE PERMITTED.

2.3 TESTS FOR ALL MATERIALS SHALL BE CURRENT WITHIN THE PAST TWELVE (12) MONTHS PRIOR TO USE IN THE WORK. MAKE TESTS AVAILABLE TO THE ENGINEER UPON REQUEST. ANY TESTING REQUIRED BY CITY AGENCIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY LOCAL MORE STRINGENT REQUIREMENTS SHALL TAKE PRECEDENCE OVER THESE SPECIFICATIONS AND BE INCLUDED IN THE CONTRACTOR'S BASE BID.

2.4 SUBMITTALS REQUIRE NAME AND LOCATION OF CONCRETE SUPPLIER. SUBMIT CONCRETE MIX DESIGN INDICATING AMOUNT OF ALL INCREDIENTS FOR EACH CLASS TO BE USED IN THE WORK.

2.5 THE CONTRACTOR SHALL HAVE AT HIS DISPOSAL A MODERN AND DEPENDABLE BATCH PLANT WITHIN A REASONABLE DISTANCE FROM THE WORK.

2.6 CONCRETE SHOULD BE BATCHED, MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94/94M.

2.7 ALL CEMENT SHALL CONFORM TO ASTM C150, TYPE II. TYPE I MAY BE EMPLOYED WITH ENGINEER'S APPROVAL.

2.8 NORMAL WEIGHT CONCRETE TO DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS. MAXIMUM WATER-CEMENT RATIO TO BE 0.40. AIR ENTRAINMENT IS TO BE 6.5% (± 1.5%). MODULUS OF RUPTURE (MOR) IS TO BE 650 PSI (4.5MPa) PER ASTM C78 STANDARDS.

2.9 SLUMP LIMITS:
PAVMENT, RAMPS, SLABS AND SLOPING SURFACES: 3"
FOUNDATION: 3"
CONCRETE CONTAINING HIGH RANGE WATER-REDUCING ADMIXTURES (SUPERPLASTICIZER): 8" AFTER ADDING ADMIXTURE TO SITE-VERIFIED 3" SLUMP CONCRETE.
TOLERANCES IN SLUMP OR SLUMP FLOW…ASTM C94/C94M:

FOR SLUMP OF	TOLERANCE
2" AND LESS	± ½" INCH [15mm]
MORE THAN 2 THROUGH 4 IN.	± 1" IN [25 mm]
MORE THAN 4 IN [100 mm]	± 1 ½ " [40 mm]

2.10 FINE AND COARSE AGGREGATES SHALL COMPLY IN ALL RESPECTS TO ASTM C33. MAXIMUM SIZE 1-½" FOR GENERAL CONCRETE COARSE AGGREGATES. COARSE AGGREGATE FOR SIDEWALKS, CURBS AND GUTTERS MAXIMUM SIZE ¾". COARSE AGGREGATE SHALL BE CRUSHED LIMESTONE OR APPROVED EQUAL.

2.11 WATER - USE PUBLIC POTABLE WATER SUPPLY, CLEAN AND FREE FROM DELETERIOUS MATERIALS.

2.12 ADMIXTURES - WATER REDUCING - SHALL CONFORM TO ASTM C494, TYPE A, AND AIR-ENTRAINING SHALL CONFORM TO ASTM C260.

3.0 QUALITY ASSURANCE / QUALITY CONTROL

3.1 CONCRETE CYLINDERS ARE TO BE TAKEN FROM EVERY 35 CUBIC YARDS OF CONCRETE PLACED. CONCRETE CYLINDERS ARE TO BE OBTAINED AS FOLLOWS: (4) 4" x 8" CYLINDERS FOR LABORATORY CURE AND TESTING. (2) 4" x 8" CYLINDERS FOR FIELD CURE AND TESTING. CYLINDERS ARE TO BE TESTED FOR SLUMP, AIR AND TEMPERATURE AT TIME OF PLACEMENT. CYLINDERS ARE TO BE COMPRESSION TESTED AT 7 DAYS AND 28 DAYS. THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY IF FIELD TESTS DO NOT SATISFY SPECIFICATIONS.

3.2 UPON COMPLETION OF CONCRETE TESTING, THE AGENCY SHALL CERTIFY THEIR RESULTS AS FOLLOWS:

"I CERTIFY THAT THE FIELD AND LAB TESTING CONFORMS TO ACI AND ASTM STANDARDS AND AS HEREIN-SPECIFIED."

SIGNED ________________________________, P.E.

3.3 CONCRETE SURFACE IS TO BE TRUE WITHIN ⅛" WHEN MEASURED USING 10'0" STRAIGHT EDGE IN ANY DIRECTION.

3.4 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE QUALITY CONTROL OF ALL CONCRETE.

3.5 CONCRETE WHICH DOES NOT MEET THE REQUIREMENTS OF THESE SPECIFICATIONS MAY BE REJECTED BY THE ENGINEER.

4.0 CONCRETE PLACEMENT

4.1 CONCRETE FORMWORK SHALL CONFORM TO ACI 347R-13. FORMS SHALL BE SUBSTANTIALLY FREE FROM SURFACE DEFECTS AND SUFFICIENTLY TIGHT TO PREVENT LEAKAGE FORMS. SHALL BE PROPERLY BRACED AND TIED TO MAINTAIN POSITION AND SHAPE DURING AND AFTER PLACING CONCRETE.

4.2 REINFORCING STEEL BARS SHALL BE DEFORMED NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. WIRE FABRIC SHALL BE COLD-DRAWN STEEL CONFORMING TO ASTM A185. ALL DOWEL BARS ARE TO BE EPOXY-COATED, SMOOTH STEEL BARS AT SLAB MID-DEPTH AT 12" CENTERS AND ARE TO BE COATED WITH A BOND BREAKER.

4.3 CONCRETE COVER FOR REINFORCING STEEL:
- 3" BOTTOM (CLEAR)
- 2" TOP AND SIDES (CLEAR)

4.4 ALL REINFORCING BARS ARE TO BE TIED, SUPPORTED ON CHAIRS AND LOCATED AS SHOWN ON DRAWINGS.

4.5 PROVIDE DOWELED CONCRETE PAVEMENT CONSTRUCTION JOINTS AT INTERFACE BETWEEN AREAS OF CONCRETE PLACED AT DIFFERENT TIMES DURING THE COURSE OF THE PROJECT. PROVIDE JOINT SEAL.

4.6 PROVIDE DOWELED CONTROL JOINTS AS SPECIFIED. PROVIDE JOINT SEAL.

4.7 ALL DOWELS ARE TO BE FASTENED INTO DOWEL BASKETS AND LOCATED AS SHOWN ON DRAWINGS. JOINTS ARE TO BE LOCATED OVER CENTERLINE OF DOWELS.

4.8 ALL DOWELS ARE TO BE EPOXY COATED AND COVERED WITH BOND BREAKER.

4.9 DOWELS AND REINFORCING BARS ARE TO REMAIN IN POSITION AS SHOWN ON DRAWINGS THROUGH COMPLETION OF CONCRETE PLACEMENT.

4.10 CONCRETE SHALL BE CONSOLIDATED USING HIGH FREQUENCY VIBRATORS. VIBRATION PRACTICES TO BE IN ACCORDANCE WITH ACI 309R.

4.11 SAW CUT CONTROL JOINTS AS LOCATED ON PLANS USING ¼" THICK BLADE. FILL SAW CUT WITH SELF LEVELING, POLYURETHANE BASE JOINT SEALANT. SEALANT TO BE CLASS "A", ASTM C-920, TYPE S, GRADE P, CLASS 25. ACCEPTABLE MATERIAL: SIKAFLEX 2C SL AS MANUFACTURED BY SIKA OR APPROVED EQUAL. BACKER ROD AND SEALANT ONLY REQUIRED ON EXPOSED SLABS.

4.12 SAWCUT JOINTS 4-12 HOURS AFTER PLACING CONCRETE (AS SOON AS SURFACE IS FIRM ENOUGH, SO THAT IT WILL NOT BE TORN OR DAMAGED BY THE CUTTING MACHINE OR BLADE). DO NOT WAIT UNTIL THE NEXT DAY TO MAKE SAWCUTS.

4.13 SAW-CUT PAVEMENT CONTROL JOINTS FOR UNREINFORCED CONCRETE PER DETAILS. JOINTS ARE TO BE CUT TO PROVIDE SQUARE SECTIONS AS MUCH AS POSSIBLE. MAXIMUM PANEL LENGTH TO WIDTH RATIO IS 1.5, U.N.O.

4.14 COLD WEATHER CONCRETING IS TO BE PERFORMED PER ACI 306R-16 AND ACI-306.1-90. HOT WEATHER CONCRETING IS TO BE PERFORMED PER ACI 305R-10 AND ACI-305.1-4.

4.15 FOR COLD WEATHER CONCRETE PAVEMENT CONSTRUCTION, USE COMBINATION OF NON-CHLORIDE ACCELERATOR AND WATER-REDUCER THAT MEET REQUIREMENTS OF ASTM C494/C494M FOR TYPE C ACCELERATING MIXTURES AND TYPE E, OR BOTH. CONCRETE SHALL BE COVERED AND INSULATED (AND HEATED IN NECESSARY) FOR MINIMUM 72 HOURS WHEN AMBIENT OUTSIDE AIR TEMPERATURES ARE BELOW 40° F.

5.0 OPENINGS

5.1 FOR OPENINGS THAT ARE LEFT IN NEW CONCRETE OR WHERE MADE IN EXISTING CONCRETE FOR THE INSERTION OF WALL CASTINGS, PIPES OR OTHER FIXTURES: THE SPACE AROUND THESE ITEMS SHALL BE MADE WATERTIGHT BY COMPLETELY FILLING WITH A NON-SHRINK GROUT UNLESS ANOTHER METHOD IS SPECIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

5.2 THE LOCATION OF ALL OPENINGS IN WALLS, SLABS OR FOUNDATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. WHERE OPENINGS FOR ELECTRICAL, MECHANICAL, OR PLUMBING ARE NOT SHOWN, THE GENERAL CONTRACTOR IS TO COORDINATE.

5.3 ALL COVERS, GASKETS, AND SEALS TO BE IN PLACE AND WATER TIGHT PRIOR TO PLACING CONCRETE.

5.4 ALL GROUT SHALL BE HIGH-STRENGTH, NON-SHRINK, NONMETALLIC, NON-GAS FORMING, PRE-BLENDED AND READY FOR USE REQUIRING ONLY THE ADDITION OF WATER.

6.0 FINISH, CURE, SEAL

6.1 FORMED CONCRETE SURFACES SHALL BE SURFACE FINISHED AS SOON AS PRACTICAL. REMOVE ALL FORM TIES, FINS AND PROJECTIONS. PATCH TIE HOLES, INDENTATIONS AND OTHER SURFACE IRREGULARITIES WITH SAND CEMENT PATCHING MORTAR, 3000 PSI. FILL AND REPAIR HONEYCOMBS AND HOLES.

6.2 UNLESS OTHERWISE NOTED, ALL FORMED CONCRETE SURFACES TO BE EXPOSED SHALL BE GIVEN A RUBBED FINISH. IN THE CASE OF RESTORATION, THE RUBBED FINISH SHALL BE EQUAL TO THAT OF THE CONCRETE SURFACE BEING REPLACED. INVERTS, BENCH WALLS, FLOORS, OR STRUCTURES AND SIMILAR SURFACES SHALL BE GIVEN A FLOAT FINISH. SIDEWALKS SHALL BE HAND FLOATED USING A MAGNESIUM FLOAT AND GIVEN A BROOM FINISH PERPENDICULAR TO TRAFFIC, EDGES OF SLABS TO BE TOOLED. PAVEMENT IS TO BE FINISHED AS A NON-SKID SURFACE.

6.3 CONCRETE PAVEMENT SHALL HAVE A MEDIUM BROOM FINISH.

6.4 CONCRETE IS TO BE CURED PER ACI 308R-16 AND ACI 308.1-11.

6.5 CONCRETE TO BE SEALED WITH CHEMMASTERS POLYSEAL PLUS-A PER MANUFACTURER'S RECOMMENDATIONS AFTER ALL BLEED WATER HAS DISSIPATED AND APPLICATION WILL NOT MAR SURFACE.

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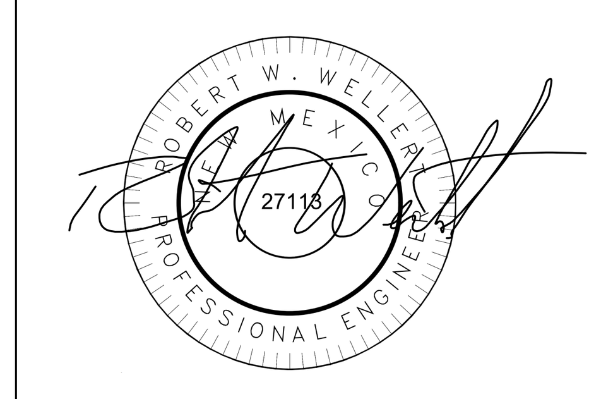
CELEBRATING 40 YEARS (1980-2020)

NO.	DATE	REVISION DESCRIPTION
0	06/10/2024	ISSUED FOR PERMIT



PROJECT TITLE:
TA FACILITY #081
NEW PARKING GATE
NEW PARKING GATE SYSTEM

SITE ADDRESS:
2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87107

SCALE:	N/A
	06/10/2024
DESIGNED BY:	SMW
DRAWN BY:	SMW
CHECKED BY:	RWW
FILE NAME:	240117-C #081 Parking Gate.dwg
JOB NUMBER:	240117

DRAWING TITLE:
DETAILS & SPECIFICATIONS

SHEET NO:
C3.2

GENERAL:

1. ALL WORK IS TO BE PERFORMED PER REQUIREMENTS OF THE STATE BUILDING CODE AND STATE DEPARTMENT OF TRANSPORTATION (D.O.T.).
2. ALL WORK SHALL BE PERFORMED PER OSHA HEALTH AND SAFETY GUIDELINES.
3. PROVIDE AND MAINTAIN SERVICEABLE VEHICULAR ACCESS THROUGHOUT CONSTRUCTION OF THIS PROJECT.
4. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS AND OWNER.
5. DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS ARE NOT INTENDED. THE CONTRACTOR IS TO IDENTIFY ANY SUCH DISCREPANCIES WITH THE ENGINEER PRIOR TO COMMENCING WORK.
6. STATED DIMENSIONS TAKE PRECEDENCE OVER GRAPHICS, DO NOT SCALE DRAWINGS TO DETERMINE LOCATIONS. THE OWNER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONTINUING WORK.
7. EXISTING ELEVATIONS AND LOCATIONS OF ITEMS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
9. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIALS AND PLAN SPECIFICATIONS TO THE OWNER AND LOCAL UTILITY COMPANIES AS REQUIRED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
10. FOR CONSTRUCTION DETAILS NOT SHOWN USE THE MANUFACTURER'S APPROVED SHOP DRAWINGS / DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE, PROTECTION, AND CONTINUATION OF SERVICE FOR ALL UTILITIES SERVING THE SITE OUTSIDE THE WORK AREA.
12. ANY MODIFICATIONS TO THE WORK AS SHOWN ON THE PLANS MUST HAVE PRIOR WRITTEN APPROVAL BY THE ENGINEER AND MUNICIPALITY.
13. THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, PROCEDURES, TECHNIQUES OR SEQUENCES OF CONSTRUCTION NOT SPECIFIED HEREIN, NOR FOR THE SAFETY ON THE JOB SITE, NOR SHALL THE DESIGN ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS.
14. ANY APPARENT DISCREPANCIES OR QUESTIONS IN CONTRACT DOCUMENTS ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY.
15. ALL EXCAVATION, BACKFILL, SUBGRADE PREPARATION, BASE COURSE, BITUMINOUS PAVEMENT, AND CONCRETE WORK (INCLUDING CURBS, SIDEWALK AND RELATED ITEMS) SHALL COMPLY WITH GOVERNING CODES AND REGULATIONS.
16. TRUCKING ON OR ABOUT THE SITE WILL BE PERMITTED ONLY WITHIN REASONABLE LIMITS AND THE CONTRACTOR SHALL NOT UNREASONABLY ENCUMBER THE PREMISES WITH EQUIPMENT AND MATERIALS. STORAGE AND STAGING AREAS SHALL BE CONFINED TO SUCH LIMITS AS MAY BE JOINTLY AGREED UNPON BY OWNER AND CONTRACTOR.
17. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL BACKFILL AND GRADE EXCAVATED AREAS SO AS TO ELIMINATE PONDING ON THE SITE.
18. ALL WORK IS SUBJECT TO THE DIRECT INSPECTION OF THE OWNER OR THEIR DULY AUTHORIZED REPRESENTATIVE.
19. ANY DEFECTS IN THE CONSTRUCTION INCLUDING MATERIALS AND WORKMANSHIP SHALL BE REPLACED OR CORRECTED BY REMOVAL AND REPLACEMENT OR OTHER APPROVED METHODS PRIOR TO ACCEPTANCE BY THE OWNER WITHOUT ANY EXTRA COST TO THE OWNER.
20. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED BY STATE AND LOCAL AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
21. VISIBLE ABOVE-GROUND UTILITIES ON SITE HAVE BEEN SHOWN ON THE SURVEY. CONTRACTOR IS TO FIELD-VERIFY ELEVATIONS, QUANTITIES AND LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
22. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL PROPOSED CONNECTIONS TO EXISTING FACILITIES PRIOR TO COMMENCING WORK. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY ENGINEER OF ANY DISCREPANCIES.

EARTHWORK:

1. A GEOTECHNICAL REPORT FOR THIS PROJECT IS NOT AVAILABLE.
2. REMOVE SOILS AS NECESSARY TO COMPLETE PROPOSED CONSTRUCTION. IF CONTAMINATED SOILS ARE ENCOUNTERED, IT SHALL BE STOCKPILED PER DIRECTION OF OWNER'S REPRESENTATIVE. CONTAMINATED SOILS SHALL BE PLACED ON AND COVERED WITH VISQUEEN. A BERM SHALL BE CONSTRUCTED AROUND ENTIRE STOCKPILE TO HOLD VISQUEEN DOWN AND PREVENT SURFACE WATER AND RAIN FROM ENTERING SOIL PILE. ALL SEALS OR OVERLAPS IN THE VISQUEEN COVERING SHALL BE SECURED. UNLESS OTHERWISE DIRECTED, USE ALL "CLEAN" EXCAVATED SOILS AS FILL ON SITE. IF DISCOVERED, ANY CONTAMINATED SOILS THAT CANNOT BE UTILIZED ON THE SITE SHALL BE STOCKPILED FOR FURTHER EVALUATION BY OWNER'S REPRESENTATIVE. "CLEAN" SOIL SHALL BE STOCKPILED SEPARATELY FROM CONTAMINATED SOIL AND SHALL NOT BE MIXED.
3. ON-SITE SOIL INTENDED FOR USE AS FILL IS TO BE FREE OF ORGANICS, TOPSOIL, FROST, LARGE ROCKS, CONCRETE FRAGMENTS, STEEL REBAR AND ANY OTHER DELETERIOUS MATERIALS. THE IN-SITU, NON-ORGANIC SOILS ON SITE MAY BE LIME-TREATED PER SPECIFICATIONS AND CAN BE USED AS FILL FOR THIS PROJECT.
4. PRIOR TO USE, THE APPROVED FILL MATERIAL SHOULD BE TESTED AS OUTLINED IN ASTM D-698 TO DETERMINE THE MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT FOR SILTY OR COHESIVE SOILS, OR MAXIMUM INDEX DENSITY (ρmax) PER ASTM D-4253 (USING DRY AND WET METHODS) FOR CLEAN GRANULAR SOILS. FOR EACH CHANGE IN BORROW MATERIAL, ADDITIONAL TESTS SHOULD BE PERFORMED.
5. FILL OR BACKFILL CONSISTING OF LOW PLASTICITY SOILS SHOULD BE PLACED IN LOOSE LIFT THICKNESS OF 8 INCHES (MAXIMUM) AND BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR (ASTM D-698) MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN ±2 PERCENT OF OPTIMUM.
6. FILL OR BACKFILL CONSISTING OF GRANULAR MATERIAL SHOULD BE PLACED IN LOOSE LIFT THICKNESS OF 8 INCHES (MAXIMUM) AND BE COMPACTED TO AT LEAST 90% RELATIVE COMPACTION (Rc) PER ASTM D4253 (USING DRY AND WET METHODS).
7. UTILITY TRENCH BACKFILL AND SMALL PAVEMENT AREAS WHICH ARE NOT ACCESSIBLE TO HEAVY COMPACTORS IS TO BE PLACED IN LOOSE LIFT THICKNESS OF 6 INCHES MAXIMUM AND BE COMPACTED TO AT LEAST 90% RELATIVE COMPACTION (Rc) PER ASTM D4253 (USING DRY AND WET METHODS). NO COMPACTIVE EFFORTS ARE PERMITTED WITHIN 16 INCHES ABOVE PIPES OR CONDUITS OR WHERE PROHIBITED BY PIPE OR CONDUIT MANUFACTURER'S INSTALLATION REQUIREMENTS.
8. ALL FILLING OPERATIONS SHOULD BE OBSERVED BY A QUALIFIED SOILS TECHNICIAN. FIELD DENSITY TESTS SHOULD BE PERFORMED TO ASSURE SOIL COMPACTION MEETS SPECIFICATIONS.
9. COHESIVE FILL IN LAWN AREAS SHALL BE COMPACTED TO 92% STANDARD PROCTOR (ASTM D-698) AT A MOISTURE CONTENT OF OPTIMUM ±3%.
10. COMPACTION TESTING OF FILL MATERIAL UNDER PROPOSED PAVEMENT AREAS SHALL BE PERFORMED AS DIRECTED BY OWNERS REPRESENTATIVE AND THE LOCAL ENGINEERING DEPARTMENT. FILL WHICH FAILS TO MEET THE APPLICABLE COMPACTION REQUIREMENTS SHALL BE CORRECTED BEFORE PAVING WILL BE PERMITTED.

PROOF ROLL:

A. PROOF ROLL ALL PROPOSED STRUCTURE AND PAVEMENT AREAS PRIOR TO PLACEMENT OF BASE MATERIAL, PAVEMENT OR SLABS.
B. A LOADED, TANDEM-AXLE DUMP TRUCK, GROSS WEIGHT ≥ 50,000 POUNDS, IS TO BE USED.
C. SPEED IS TO BE SLOW ENOUGH TO COMFORTABLY WALK ALONG SIDE THE TRUCK DURING THE PROOF ROLL.
D. ANY AREA EXHIBITING RUTTING OR "ROLLING" OF ONE INCH OR MORE IS TO BE REJECTED.
E. REJECTED AREAS ARE TO BE RE-COMPACTED AND RE-TESTED. FAILURE OF THE SECOND PROOF ROLL WILL RESULT IN THE NECESSITY OF OVEREXCAVATION AND BACKFILL OF THE REJECTED AREA.
F. THE ENGINEER IS TO PROVIDE REMEDIAL RECOMMENDATIONS AS MAY BE NECESSARY.
G. DO NOT PROOF ROLL OVER UNDERGROUND PIPING, ELECTRICAL CONDUITS, OR UNDERGROUND STORAGE TANKS.

SITE WORK:

1. TRAFFIC SHALL BE MAINTAINED ON ALL ADJOINING STREETS AND THROUGHOUT SITE AT ALL TIMES.
2. TRAFFIC BARRICADES AND FENCE MUST BE IN PLACE PRIOR TO INITIATION OF ANY SITE CONSTRUCTION ACTIVITIES
3. THE CONTRACTOR SHALL BE ADVISED THAT ALL EXCAVATION IS CONSIDERED UNCLASSIFIED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, AND MATERIALS OF CONSTRUCTION TO COMPLETE PROPOSED CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPORTATION OF ANY BORROW MATERIAL NECESSARY TO COMPLETE THE JOB.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OFF-SITE DISPOSAL OF ANY AND ALL EXCESS OR UNSUITABLE MATERIAL NOT USED ON THE JOB SITE UNLESS OTHERWISE NOTED.
7. PROPOSED ELEVATIONS SHOWN SHALL NOT BE CHANGED WITHOUT APPROVAL OF THE ENGINEER.
8. ALL SITE WORK, MATERIALS OF CONSTRUCTION, AND CONSTRUCTION METHODS SHALL COMPLY WITH LOCAL MUNICIPALITY, LOCAL COUNTY, AND THE STATE D.O.T. MATERIAL AND CONSTRUCTION SPECIFICATIONS.
9. PROPER COORDINATION SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL UTILITY COMPANY, LOCAL MUNICIPALITY, AND LOCAL COUNTY STANDARDS FOR MATERIALS AND CONSTRUCTION SCHEDULES AND METHODS ARE SATISFIED.
10. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING SERVICES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE STATE UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS BEFORE START OF WORK AND VERIFY ALL EXISTING UTILITY LOCATIONS.
11. CONTRACTOR SHALL PROVIDE AND CONSTRUCT ALL BENDS, FITTINGS, ADAPTERS, ETC. AS REQUIRED FOR GRAVITY-DRAINAGE PIPE CONNECTIONS TO STRUCTURE STUB-OUTS, INCLUDING SANITARY CONNECTIONS AND ROOF/FOOTING DRAIN CONNECTIONS TO ROOF LEADERS AND TO STORM DRAINAGE SYSTEM.
12. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING.
13. MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE FRAMES AND COVERS, CATCH BASIN GRATES, VALVE BOXES, ETC., TO BE RAISED OR LOWERED, TO PROPOSED FINISHED GRADE, FLUSH WITH THE ADJACENT GRADE.
14. UNDERDRAINS MUST BE ADDED IF DETERMINED NECESSARY BY THE ENGINEER OR CONSTRUCTION MANAGER AFTER SUBGRADE IS ROUGH GRADED.
15. UNLESS OTHERWISE INDICATED AT A SPECIFIC LOCATION, ALL FINISHED GRADES ARE TO CONFORM TO AND MATCH EXISTING GRADES AT INTERFACES OF NEW AND EXISTING PAVEMENT AND STRUCTURES.
16. THE CONTRACTOR SHALL RESTORE ANY STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, ETC. DISTURBED DURING CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER.
17. THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO STORMWATER POLLUTION PREVENTION PLAN FOR LIMIT OF DISTURBANCE AND NOTES.
18. ALL DISTURBANCE INCURRED TO PUBLIC PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE LOCAL MUNICIPALITY AND/OR STATE D.O.T.
19. ALL CONSTRUCTION SHALL COMPLY WITH THE LOCAL MUNICIPALITY'S STANDARDS AND STATE D.O.T. SPECIFICATIONS. ALL CONSTRUCTION WITHIN A PUBLIC ROAD SHALL COMPLY WITH ALL APPROPRIATE PUBLIC UTILITY AND AGENCY REQUIREMENTS.
20. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE LOCAL MUNICIPALITIES TO SECURE PERMITS AND FEES FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES.
21. SITE GRADING SHALL BE PERFORMED TO PROVIDE POSITIVE DRAINAGE TO CATCH BASINS AND TO PRECLUDE THE PONDING OF WATER ON SITE.
22. VERIFY REQUIRED SPOT ELEVATIONS/GRADING IN THE VICINITY OF THE WORK WITH THE EXISTING CONDITIONS PLAN AND A SITE CHECK.
23. CONTRACTOR IS TO FIELD VERIFY RELATIVE ELEVATIONS OF BENCHMARKS PRIOR TO CONSTRUCTION.

LAYOUT AND PAVING:

1. ALL PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO AASHTO AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS SHALL BE CONSTRUCTED OF FLAT SHEET ALUMINUM IN ACCORDANCE WITH STATE HIGHWAY SPECIFICATIONS. STEEL SIGN POSTS SHALL BE USED AND CONFORM TO ASTM A36 OR ASTM A441 AND SHOULD BE GALVANIZED IN ACCORDANCE WITH AASHTO M111.
2. A MINIMUM CLEARANCE OF 2 FEET SHALL BE MAINTAINED FROM THE FACE OF CURB AND ANY PART OF A LIGHT POLE OR TRAFFIC SIGN. CLEARANCES SHALL BE MAINTAINED PER LIGHT POLE BASE DETAIL SHOWN ON C6 SERIES.
3. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS. PAVEMENT MARKINGS SHALL BE APPLIED PER MANUFACTURER RECOMMENDATIONS. APPLY PAINT TO CLEAN, DRY SURFACES TO YIELD SHARP DEFINITION OF EDGES. AIR TEMPERATURE 50°F MINIMUM. APPLY TWO (2) COATS.
4. CONTRACTOR SHALL SAW-CUT IN A NEAT, STRAIGHT LINE FOR SMOOTH TRANSITIONS AT TIE-INS TO EXISTING EDGES OF PAVEMENT AND AT COLD JOINTS OF RECENTLY PAVED PAVEMENT.
5. JOINTS OR SCORE MARKS ARE TO BE SHARP AND CLEAN WITHOUT SHOWING EDGES OF JOINTING TOOL.
6. CONTRACTOR SHALL SAWCUT TIE-INS AT EXISTING CURBS TO ENSURE SMOOTH TRANSITIONS. CONTRACTOR SHALL SAWCUT AND TRANSITION TO EXISTING PAVEMENT TO ENSURE POSITIVE DRAINAGE.
7. ALL CURB RADII ARE 3', UNLESS OTHERWISE NOTED. FOR CURBED ISLANDS SHOWN WITH ONE LABELED RADIUS, THE LABELED RADIUS SHALL APPLY TO ALL FOUR CORNERS OF THE ISLAND.
8. CONTRACTOR SHALL INSTALL ALL CURBING IN A TRUE LINE AND PROPER GRADE IN ACCORDANCE WITH THE APPROVED SITE PLANS AND APPROPRIATE STATE DOT SPECIFICATIONS. CURVED CURB SECTIONS SHALL BE USED FOR RADII LESS THAN 30'. ALL CURBING SHALL BE BACKFILLED WITH CLEAN AGGREGATE.
9. CONTRACTOR SHALL REPAIR ANY CURB DAMAGED DURING CONSTRUCTION ACTIVITIES.
10. ALL CURBS SHALL BE FULL DEPTH CONCRETE CURB WITH REVEAL AS INDICATED ON PLANS, UNLESS OTHERWISE NOTED.

GENERAL CONSTRUCTION:

1. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE OWNER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS, SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION. ANY CONFLICT BETWEEN DRAWINGS AND THE SPECIFICATIONS SHALL BE CONFIRMED WITH THE CONSTRUCTION MANAGER ASAP.
2. THE CONTRACTOR SHALL ALERT THE STATE UTILITIES PROTECTION SERVICES 48 HOURS BEFORE ANY EXCAVATING IS INITIATED. CONTRACTOR MUST CONTACT UTILITY COMPANIES FOR EXACT LOCATIONS OF UTILITIES 2 WORKING DAYS BEFORE DIGGING.
3. SHOULD ANY UNCHARTED, OR INCORRECTLY CHARTED, EXISTING UNDERGROUND UTILITY OR OTHER OBSTRUCTION BE UNCOVERED DURING EXCAVATION, CONSULT THE OWNER'S REPRESENTATIVE IMMEDIATELY BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
4. THE CONTRACTOR SHALL ABIDE BY ALL OSHA, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS.
5. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER, LOCAL MUNICIPALITY AND UTILITY COMPANY. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY OR PERMANENT SERVICE HAS BEEN PROVIDED.
6. THE CONTRACTOR SHALL RESTORE ANY STRUCTURES, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, OR OTHER EXISTING IMPROVEMENTS WITHIN THE SITE OR ADJOINING PROPERTIES DISTURBED BY CONTRACTOR DURING DEMOLITION OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AND TO THE SATISFACTION OF THE OWNER AND LOCAL MUNICIPALITY.
7. ANY APPARENT DISCREPANCIES OR QUESTIONS IN CONTRACT DOCUMENTS ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY.
8. CONTRACTOR SHALL KEEP ALL EXISTING STREETS CLEAN OF ALL SOIL, DIRT, MUD, AND DEBRIS. CONTRACTOR SHALL EXERCISE DILIGENT CARE TO PROTECT ALL TREES, SHRUBS, AND PLANTS NOT DESIGNATED FOR REMOVAL. CONTRACTOR SHALL REPLACE, TO THE SATISFACTION OF THE ENGINEER AND AT NO COST TO THE OWNER, ANY TREES, SHRUBS, PLANTS, AND OTHER OBJECTS REMOVED, DESTROYED, DISFIGURED, OR DAMAGED DUE TO CONTRACTOR'S NEGLIGENCE.
9. TRAFFIC SHALL BE MAINTAINED ON ALL ADJOINING STREETS AT ALL TIMES. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE STATE D.O.T. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
10. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL BACKFILL AND GRADE EXCAVATED AREAS TO ELIMINATE PONDING ON THE SITE.
11. CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNING BODY PRIOR TO BEGINNING ANY WORK IN THE PUBLIC RIGHT-OF-WAY.
12. DIRECTIONAL TRAFFIC ARROWS SHALL BE PAINTED WHITE UNLESS OTHERWISE NOTED.
13. ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE OF PAVING UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE UNLESS OTHERWISE NOTED.
14. THE OWNER AT ITS DISCRETION RESERVES THE RIGHT TO MODIFY THE DETAILS AND STANDARDS OF CONSTRUCTION FOR ALL PRIVATE FACILITIES FROM THAT INDICATED ON THE APPROVED PLAN, PROVIDED THAT THE ALTERNATE STANDARD COMPLIES WITH LOCAL CODE AND/OR UTILITY COMPANY REQUIREMENTS AND THE GENERAL DESIGN INTENT OF THE PROJECT IS NOT COMPROMISED.
15. UPON COMPLETION OF CONSTRUCTION, POWER WASH ALL PAVING AND SIDEWALKS TO OWNER'S SATISFACTION.

DEMOLITION:

1. THE CONTRACTOR SHALL PROTECT ALL IRON PINS, MONUMENTS AND PROPERTY CORNERS DURING CONSTRUCTION. ANY PINS, MONUMENTS AND/OR PROPERTY CORNERS DISTURBED BY CONTRACTOR SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
2. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND FIELD SURVEY AND IS NOT GUARANTEED ACCURATE OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES PRIOR TO DEMOLITION AND CONSTRUCTION. **CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND CONTACT NEW MEXICO 811 THREE (3) WORKING DAYS BEFORE COMMENCEMENT.**
3. ALL EXISTING ITEMS DESIGNATED TO BE REMOVED INCLUDING: CURB, CONCRETE, ASPHALT AND EXCESS SOIL SHALL BE DISPOSED OF BY THE CONTRACTOR EITHER OFF-SITE, OR IN AN AREA DELINEATED BY THE OWNER. THE CONTRACTOR SHALL PROVIDE A COST IN HIS BID TO DISPOSE OF THESE MATERIALS AT AN AUTHORIZED DISPOSAL FACILITY.
4. DEMOLITION DEBRIS IS TO BE REMOVED FROM SITE AND PROPERLY DISPOSED OF IN A TIMELY MANNER. ACCUMULATION OF DEMOLITION DEBRIS ON SITE MUST BE REMOVED WEEKLY.
5. THE CONTRACTOR SHALL RESTORE ALL ITEMS THAT ARE TO REMAIN SUCH AS UTILITY STRUCTURES, PIPE, PAVEMENT, CURBS, SIDEWALKS OR LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE LOCAL AGENCIES, STATE D.O.T. AND THE OWNER.
6. ALL WORK TO BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL CITY, STATE AND LOCAL ORDINANCES.
7. WITHIN THE SUBJECT PROPERTY, THE INTENT IS TO HAVE A CLEAN, CLEAR SITE, FREE OF ALL EXISTING ITEMS NOTED TO BE REMOVED IN ORDER TO PERMIT THE CONSTRUCTION OF THE NEW PROJECT.
8. ALL ITEMS NOTED TO BE REMOVED SHALL BE DONE SO AS PART OF THE CONTRACT FOR GENERAL CONSTRUCTION.
9. EXISTING UTILITY SERVICES NOT BEING SAVED SHALL BE CUT AND CAPPED NEAR AREA OF DEMOLITION. EXISTING UTILITY LINES/CONDUITS THAT WILL NO LONGER BE REQUIRED AND THAT ARE WITHIN 24 INCHES OF EXISTING OR FINAL GRADE SHALL BE REMOVED. UTILITY LINES/CONDUITS BEYOND THESE LIMITS MAY BE PROPERLY ABANDONED IN PLACE OR REMOVED IF NOT REQUIRED AND ARE LOCATED BEYOND THE LIMITS OF NEW CONSTRUCTION. CONTRACTOR TO CONTACT UTILITY COMPANIES FOR TERMINATION OF SERVICE PRIOR TO DEMOLITION.
10. FOR ALL ITEMS TO BE REMOVED - REMOVE NOT ONLY THE ABOVE GROUND ELEMENTS, BUT ALL UNDERGROUND ELEMENTS AS WELL, INCLUDING BUT NOT NECESSARILY LIMITED TO: FOUNDATIONS, GRAVEL FILLS, TREE ROOTS, OLD PIPE, ETC.
11. BACKFILL FOR ALL EXCAVATIONS RESULTING FROM THE DEMOLITION WORK IS TO MEET THE REQUIREMENTS FOR FILL OUTLINED IN THE CONSTRUCTION DOCUMENTS AND THE GEOTECHNICAL REPORT.
12. LIMITS OF REMOVAL SHOWN ON DEMOLITION PLAN ARE APPROXIMATE ONLY. ACTUAL QUANTITIES MAY VARY DUE TO CONSTRUCTION ACTIVITIES. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION, REMOVAL AND RESTORATION WORK NECESSARY TO PERMIT CONSTRUCTION OF THE PROPOSED PROJECT.
13. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE TEMPORARY CONSTRUCTION FENCE IN THE FIELD WITH THE LOCAL UTILITY COMPANIES, AUTHORITIES, AND THE CONSTRUCTION PROJECT MANAGER.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC THROUGHOUT CONSTRUCTION AND SHALL INSTALL TRAFFIC CONTROL DEVICES, SIGNAGE, AND UTILIZE FLAG MEN AS NECESSARY. TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. TRAFFIC MAINTENANCE SHALL BE PROVIDED FOR ALL PUBLIC ROADWAYS THROUGHOUT THE DEMOLITION AND CONSTRUCTION PROJECT.

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CELEBRATING 40 YEARS (1980-2020)

NO.	DATE	REVISION DESCRIPTION
0	06/10/2024	ISSUED FOR PERMIT

ROBERT W. WELLERT
NEW MEXICO
27118
PROFESSIONAL ENGINEER

PROJECT TITLE:

TA FACILITY #081
NEW PARKING GATE
NEW PARKING GATE SYSTEM

SITE ADDRESS:

2501 UNIVERSITY BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87107

SCALE: N/A
06/10/2024
DESIGNED BY: SMW
DRAWN BY: SMW
CHECKED BY: RWW
FILE NAME: 240117-C #081 Parking Gate.dwg
JOB NUMBER: 240117

DRAWING TITLE:

DETAILS & SPECIFICATIONS

SHEET NO:

C3.3