

NE-79-X001

OMAHA RAPID BUS TRANSIT STATION CANOPY PACKAGE

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CIVIL DETAILS (FOR REFERENCE ONLY) STRUCTURAL (FOUNDATIONS AND SEAT WALLS FOR

REFERENCE ONLY)
ARCHITECTURAL

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PROJECT INFORMATION ORBT DODGE RAPID BUS TRANSIT PROJECT NAME WEST DODGE ROAD/DODGE STREET OMAHA ZIP CODE CITY COUNCIL RESOLUTION NUMBER GRANTING PROJECT APPROVAL CITY COUNCIL ORDINANCE NUMBER GRANTING PROJECT APPROVAL DATE

PROJECT DESCRIPTION

THE PROJECT INCLUDES THE FURNISHING AND INSTALLATION OF STATION CANOPIES. THIS PROJECT ALSO INCLUDES THE INSTALLATION OF SOME OWNER—FURNISHED ITEMS. COORDINATED WORK OUTSIDE OF THIS CONTRACT INCLUDES REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALK, CURB AND GUTTER, AND PEDESTRIAN RAMPS WITHIN THE VICINITY OF CONSTRUCTION OF THE RAPID BUS STATIONS.

APPLICANT

INSPECTOR

AECOM

CONTRACTOR

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NE-79-X001

DESIGNED BY: AECOM _DATE _ DRAWN BY: AECOM/LAD SURVEYED: R.W. DATE

REV. NO. REVISION/ISUUE INITIALS REVISION DATE * * *

12120 SHAMROCK PLZ, STE 100 OMAHA, NEBRASKA 68154 ENGINEER:

FIELD BOOK NO. CABLE SENT: 0.P.P.D. TELE. RECEIVED: RECEIVED: RECEIVED: NONE *** _1/4 SECTION SCALE: SHEET ___1_OF___38

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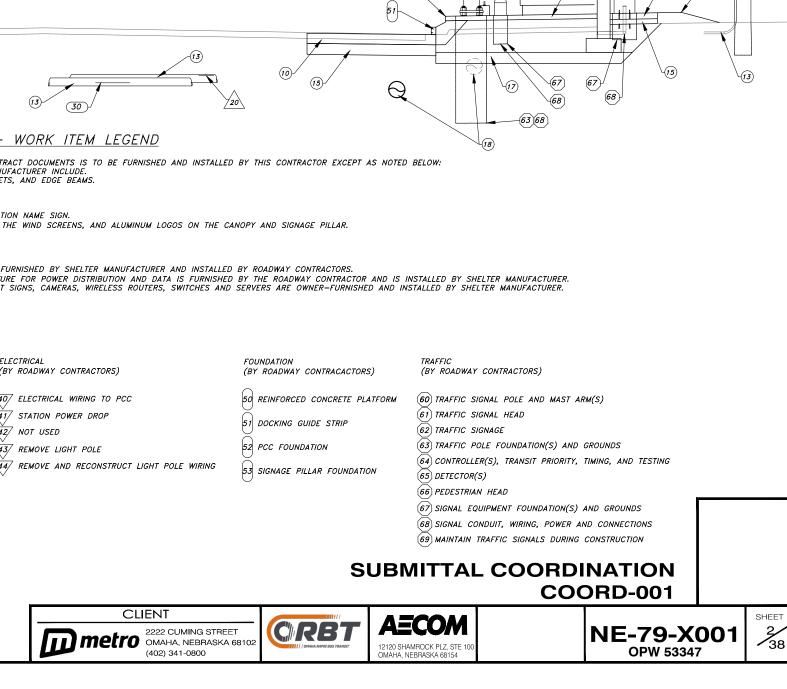
COORDINATING PROFESSIONAL



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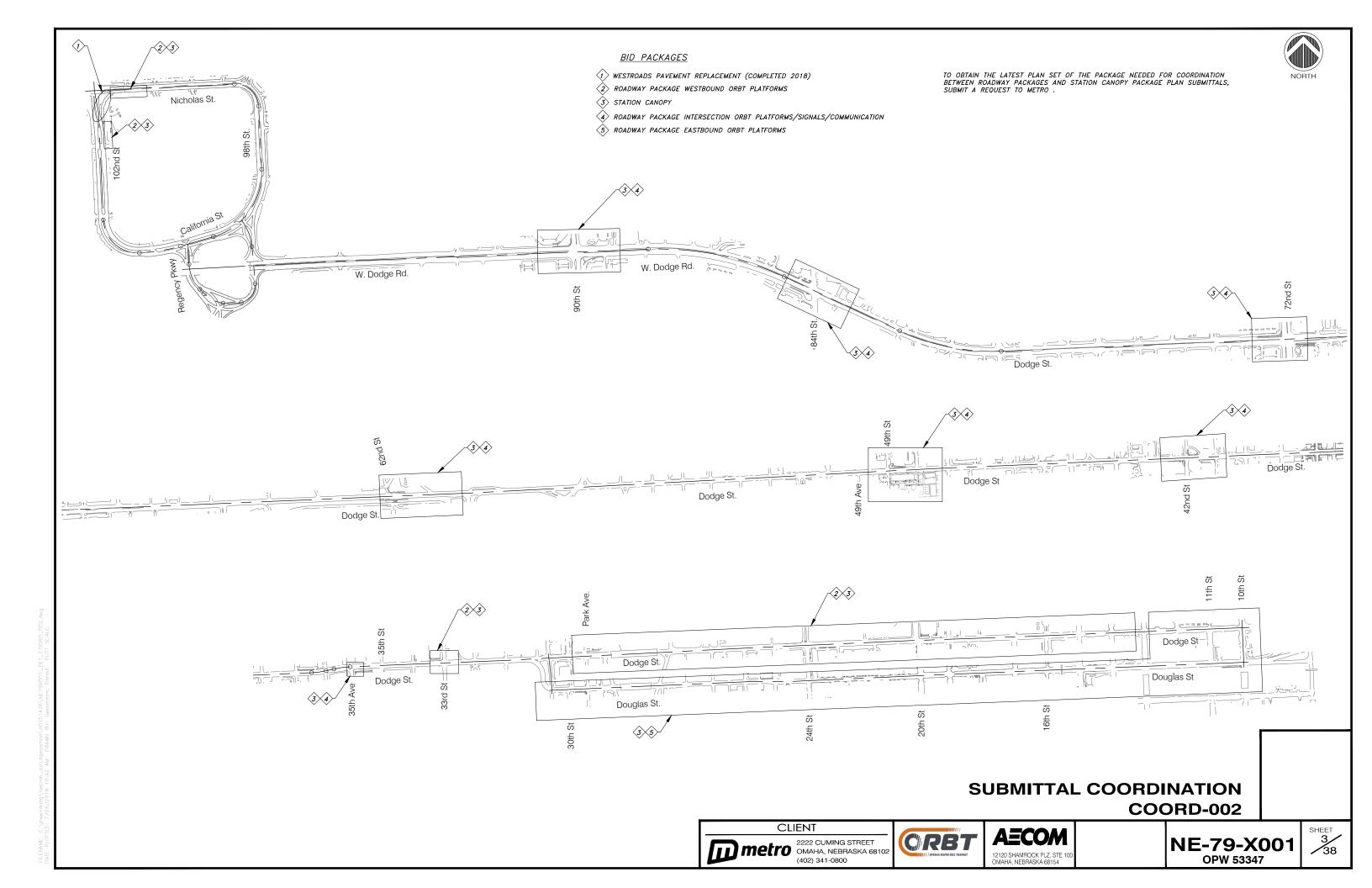
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30 32 34



GENERAL SYMBOLS MATERIALS REFERENCE View Name SCALE: 1/8" = 1'-0" 101 ROOM NUMBER 150 SF / 150 SF — ACTUAL SQ. FT. EARTH EARTH GRAVEL BUILDING SECTION CONCRETE 4 4 DOOR NUMBER METALS OTEC; ALIMINUM WALL SECTION XXX WINDOW NUMBER 09 20 00.A1 KEYNOTE DETAIL SECTION 1)— WALL TYPE EXTERIOR/INTERIOR STONE REVISION NUMBER -ELEVATION NUMBER ELEVATION INDICATION _SHEET ON WHICH ELEVATION IS DRAWN INTERIOR MULTI-VIEW ELEVATION IDENTIFICATION NORTH ARROW INSULATION ATT OR LOCAL PROD __SHEET ON WHICH ELEVATION IS DRAWN CONTROL POINT

ABBREVIATIONS

A A/C	AIR CONDITIONING	CMU CO	CONCRETE MASONRY UNIT CLEANOUT / CARBON MONOXIDE	EXIST EXP	EXISTING EXPOSED	HVAC	HEATING, VENTILATING AND AIR CONDITIONING
AB	ANCHOR BOLT / AIR BLENDER	CO2	CARBON DIOXIDE	EXPN	EXPANSION	HW	HOT WATER
ABS	ACRYLONITRILE-BUTADIENE-STYRENE	COL	COLUMN	EXT	EXTERIOR	HWC	HOT WATER CIRCULATING
AC	ALTERNATING CURRENT / AIR	COMB	COMBINATION / COMBINE	F	EXTENSIT	HZ	HERTZ
.0	COMPRESSOR	COMP	COMPRESSIBLE	F	FIRE MAIN	1	
ACP	ASBESTOS CEMENT PIPE	CONC	CONCRETE	FA	FIRE ALARM	IA	INSTRUMENT AIR
ACU	AIR CONDITIONING UNIT	CONN	CONNECTION	FCU	FAN COIL UNIT	IC	INTERCOM
AD	AREA DRAIN	CONST	CONSTRUCTION	FD	FLOOR DRAIN / FIRE DAMPER	ID	INSIDE DIAMETER
ADA	AMERICANS WITH DISABILITIES ACT	CONT	CONTINUOUS / CONTINUATION	FD/SD	COMBINATION FIRE AND SMOKE	IE	INVERT ELEVATION
ADJ	ADJACENT / ADJUSTABLE	CONTR	CONTRACTOR		DAMPER	IF	INSIDE FACE
ADR	ACCESS DOOR	CORR	CORRIDOR	FDC	FIRE DEPARTMENT CONNECTION	IN	INCH
\FF	ABOVE FINISH FLOOR	CP	CEMENT PIPE	FDN	FOUNDATION	INSUL	INSULATION
λHJ	AUTHORITY HAVING JURISDICTION	CPT	CARPET	FDR	FEEDER	INT	INTERIOR
AHU	AIR HANDLING UNIT	CSF	CUBIC FEET PER SECOND	FE	FIRE EXTINGUISHER	J	
\L	ALUMINUM	CT	CERAMIC TILE / COOLING TOWER	FEC	FIRE EXTINGUISHER CABINET	JAN	JANITOR
ALT	ALTERNATE	CTR	CENTER	FH	FIRE HYDRANT	JB	JUNCTION BOX
APC	ACOUSTICAL PANEL CEILING	CU	CONDENSING UNIT	FHC	FIRE HOSE CABINET	JP	JOCKEY PUMP
APPROX	APPROXIMATELY	CUH	CABINET UNIT HEATER	FIN	FINISH	JST	JOIST
APT	APARTMENT	CUYD	CUBIC YARD	FIX	FIXTURE	JT	JOINT
ARCH	ARCHITECT(URAL)	CW	COLD WATER	FL	FLOOR	K	
ASPH	ASPHALT	D		FM	FORCE MAIN / FACTORY MUTUAL	KC MIL	THOUSAND CIRCULAR MILS
ATB	AIR TERMINAL BOX	D	DRAIN / DIFFUSER	FP	FIREPROOFING / FIRE PUMP	KCJ	KEYED CONSTRUCTION JOINT
ATC	ACOUSTICAL TILE CEILING	DA	DENTAL AIR	FPM	FEET PER MINUTE	KIT	KITCHEN
ATD	AIR TRANSFER DUCT	DBL	DOUBLE	FR	FIRE RATED	KPA	KILOPASCALS
ATU	AIR TERMINAL UNIT	DEPR	DEPRESSED	FRP	FIBERGLASS REINFORCED PLASTIC	KS	KITCHEN SINK
AUX	AUXILIARY	DEPT	DEPARTMENT	FS	FLOW SWITCH	KV	KILOVOLT
AVG	AVERAGE	DET	DETAIL	FT	FEET	KVA	KILOVOLT AMPERE
λZ	AZIMUTH	DF	DRINKING FOUNTAIN	FTG	FOOTING	KW	KILOWATTS
3		DIA	DIAMETER	FVC	FIRE VALVE CABINET	L	
3B	BALLED AND BURLAPPED	DIAG	DIAGONAL	G		L	LITER
3D	BOARD	DIFF	DIFFUSER	G	GAS / GRILLE	LA	LABORATORY AIR
BDD	BACK DRAFT DAMPER	DIP	DUCTILE IRON PIPE	GA	GAGE	LAB	LABORATORY
3E	BOTTOM ELEVATION	DISC	DISCONNECT	GALV	GALVANIZED	LAM	LAMINATE
3L	BUILDING LINE	DISP	DISPENSER	GB	GRAB BAR	LAV	LAVATORY
BLDG	BUILDING	DIST	DISTRIBUTION	GBD	GRAVITY BACKDRAFT DAMPER	LBS	POUNDS
BLKG	BLOCKING	DK	DECK	GEN	GENERATOR	LF	LINEAR FEET
BM	BENCH MARK / BEAM	DL	DEAD LOAD	GFRC	GLASS FIBER REINFORCED CONCRETE	LIN	LINEAR
3R	BARE ROOT	DN	DOWN	GI	GALVANIZED IRON	LL	LIVE LOAD
BRG	BEARING	DO	DITTO	GL	GLASS	LLH	LONG LEG HORIZONTAL
BTU	BRITISH THERMAL UNIT	DPR	DAMPER	GLB	GLASS BLOCK	LLV	LONG LEG VERTICAL
BTUH	BRITISH THERMAL UNIT PER HOUR	DR	DOOR	GP	GLAZED PAINT	LMU	LIGHTWEIGHT MASONRY UNITS
0		DS	DOWNSPOUT	GPM	GALLONS PER MINUTE	LONG	LONGITUDINAL
C/C	CENTER TO CENTER	DV	DENTAL VACUUM	GR	GRADE	LPM	LITERS PER MINUTE
CAB	CABINET	DWG	DRAWING	GRV	GRAVITY ROOF VENTILATOR	LT	LIGHT
CB	CIRCUIT BREAKER / CATCH BASIN	DWL	DOWEL	GWB	GYPSUM WALLBOARD	LT WT	LIGHT WEIGHT
CC	COOLING UNIT	DWP	DOMESTIC WATER PUMP	GYP	GYPSUM	LTG	LIGHTING
CE	COVER ELEVATION	E		H		LV	LABORATORY VACUUM
CEM	CEMENT	EA	EACH / EXHAUST AIR	HB	HOSE BIBB	LVL	LEVEL
CFM	CUBIC FEET PER MINUTE	EF	EACH FACE / EXHAUST FAN	HC	HEATING COIL	M	
CG	CORNER GUARD	EJ	EXPANSION JOINT	HDNR	HARDENER	M	METER
CH	CHILLER	EL	ELEVATION	HDW	HARDWARE	M2	SQUARE METER
CI	CURB INLET / CAST IRON	ELEC	ELECTRIC(AL)	HDWD	HARDWOOD	M3	CUBIC METER
CIP	CAST IRON PIPE	ELEV	ELEVATOR	HK1E	HOOK ONE END	MA	MEDICAL AIR
CJ	CONTROL JOINT OR CONTRACTION JOINT	EMBED	EMBEDMENT	HK2E	HOOK TWO ENDS	MAINT	MAINTENANCE
CKT	CIRCUIT	EMD	ESTIMATED MAXIMUM DEMAND	HM	HOLLOW METAL	MAR	MARBLE
CL	CENTER LINE	EMT	ELECTRICAL METAL TUBING	HORIZ	HORIZONTAL	MAS	MASONRY
CLG	CEILING	EQ	EQUAL	HP	HORSEPOWER	MAT	MATERIAL
CLO	CLOSET	EQUIP	EQUIPMENT	HPT	HIGH POINT	MAX	MAXIMUM
CLR	CLEAR	ET	EXPANSION TANK	HR	HOUR	MBH	1000 BTUH
CM CM	CENTIMETER	EVAC	MEDICAL GAS EVACUATION	HS	HIGH STRENGTH	MDO	MEDIUM DENSITY OVERLAY
OMH		EW	EACH WAY	HT	HEIGHT	MECH	MECHANICAL
∠IVIIT1	CUBIC METER PER HOUR	EWC	ELECTRICAL WATER COOLER	HTG HTR	HEATING	MET	METAL
MD							
CMP CMT	CORRUGATED METAL PIPE CERAMIC MOSAIC TILE	EWH EXH	ELECTRICAL WATER HEATER EXHAUST	HIK	HEATER	MFR MG	MANUFACTURER MOTOR GENERATOR / MEDICAL GAS

	MANHOLE	PRV	PRESSURE REGULATING
١	MINIMUM	PSF	POUNDS PER SQUARE FO
0	MAIN LUGS ONLY	PSI	POUNDS PER SQUARE IN
1	MILLIMETER	PT	POINT OF TANGENCY
)	MASONRY OPENING	PTVC	POINT OF VERTICAL CUR
	METAL PANEL	PVC	POLYVINYL CHLORIDE
D	MOUNTED	PVI	POINT OF VERTICAL INTE
G	MOUNTING	PVT	POINT OF VERTICAL TAN
LL	MULLION	Q	
	MEDICAL VACUUM	QT	QUARRY TILE
		R	
	NITROGEN	R	RADIUS / REGISTER
С	NITROUS OXIDE	RA	RETURN AIR
С	NATIONAL ELECTRICAL CODE	RB	RESILIENT BASE
PA	NATIONAL FIRE PROTECTION	RCP	REFLECTED CEILING PLA
	NOT IN CONTRACT	RD	ROOF DRAIN
	NUMBER	REF	REFERENCE
M	NOMINAL	REFL	REFLECTED
S	NOT TO SCALE	REG	REGISTER
		REINF	REINFORCED
3	OFFSET	REQD	REQUIRED
	OUTSIDE AIR	REV	REVERSE / REVISION
D	OPPOSED BLADE DAMPER	RF	RETURN FAN
	ON CENTER	RGS	RIGID GALVANIZED STEE
	OUTSIDE DIAMETER	RH	ROOF HOOD / RELATIVE I
	OUTSIDE FACE		REHEAT
CI	OWNER PROVIDED CONTRACTOR	RHC	REHEAT COIL
	INSTALLED	RM	ROOM
NG	OPENING	RO	ROUGH OPENING
P	OPPOSITE	ROW	RIGHT OF WAY
	OXYGEN	S	
	OUNCE	S	STAIR / STAIN / SURFACE
		SA	SUPPLY AIR / SOUND ATT
	PAINT / PUMP / PENDANT	SAN	SANITARY
	PASCAL	SCH	SCHEDULE
RT	PARTITION	SD	SMOKE DAMPER / SUB DI
VT	PAVEMENT	SECT	SECTION
	POINT OF CURVATURE	SF	SUPPLY FAN
F	POUNDS PER CUBIC FOOT	SHT	SHEET
D	PEDESTAL	SIM	SIMILAR
RP	PERPENDICULAR	SOG	SLAB-ON-GRADE
С	PREHEAT COIL	SP	SUMP PUMP
VAC	PLUMBING, HEATING, VENTILATING	SPEC	SPECIFICATIONS
	AND AIR CONDITIONING	SQ	SQUARE
	POINT OF INTERSECTION	SS	SERVICE SINK / STORM S
	POST INDICATOR VALVE	SSO	STORM SEWER OVERFLO
G	PARKING	SSTL	STAINLESS STEEL
	PLASTIC LAMINATE / PROPERTY LINE /	STA	STATION
	PLATE	STD	STANDARD
AS	PLASTER	STE	STANDARD TAPERED EN
3G	PLUMBING	STIFF	STIFFENER
- -	POUNDS PER LINEAR FOOT	STIR	STIRRUP
/WD	PLYWOOD	STL	STEEL
L	PANEL	STOR	STORAGE
	PAIR	STR	STRUCTURAL
OJ	PROJECTION	SUSP	SUSPENDED

URE REGULATING VALVE	SW
S PER SQUARE FOOT	SWGR
S PER SQUARE INCH	SYM
OF TANGENCY	T
OF VERTICAL CURVATURE	T
INYL CHLORIDE	T&B
OF VERTICAL INTERSECTION	T&G
OF VERTICAL TANGENCY	TC
0. 12.11.07.2.17.1102.1101	TE
RYTILE	TEL
CI TILL	TEMP
, DE010TED	
S / REGISTER	TERR
N AIR	TLT
ENT BASE	TOPO
CTED CEILING PLAN	TOS
DRAIN	TOW
ENCE	TP
CTED	TRANS
TER	TVM
DRCED	TYP
RED	U
SE / REVISION	UC
N FAN	UG
GALVANIZED STEEL	UH
HOOD / RELATIVE HUMIDITY /	UR
T	UV
T COIL	V
	V
OPENING	VAV
OF WAY	VB
	VC
STAIN / SURFACE / SANITARY	VCP
Y AIR / SOUND ATTENUATOR	VCT
ARY .	VERT
ULE	VEST
DAMPER / SUB DRAIN	VED
ON	VTR
Y FAN	VVC
11744	
R	W
•	W
N-GRADE	W/
PUMP	W/O
FICATIONS	WAGD
tE.	WC
CE SINK / STORM SEWER	WD
I SEWER OVERFLOW	WDW
ESS STEEL	WH
N .	WP
ARD	WPFG
ARD TAPERED END	
NER	WS
JP	WT
)F	WWF
05	Х
GE	XFMR
TURAL	Υ

	TOP ELEVATION
	TELEPHONE
1P	TEMPERATURE
 !R	TERRAZZO
	TOILET
0	TOPOGRAPHY
3	TOP OF STEEL
, V	TOP OF WALL
v	TOP OF PAVEMENT
NS	TRANSVERSE
1	TICKET VENDING MACHINE
	TYPICAL
	UNDERCUT
	UNDERGROUND
	UNIT HEATER
	URINAL
	UNIT VENTILATOR
	VOLT
'	VARIABLE AIR VOLUME
	VINYL BASE
	VERTICAL CURVE
)	VITRIFIED CLAY PIPE
•	VINYL COMPOSITION TILE
RT.	VERTICAL
T	VESTIBULE
1	VARIABLE FREQUENCY DRIV
	VENT THROUGH ROOF
0	VINYL WALL COVERING
	WATT/WATER
	WITH
	WITHOUT
GD	WASTE ANESTHESIA GAS DI
	WATER CLOSET
	WOOD WINDOW
N	WATER HEATER / WALL HYD
	WEATHERPROOF
-G	WATERPROOFING
0	WATER STOP
	WEIGHT
F	WELDED WIRE FABRIC
	TILLELS THILL I ABINO
1R	TRANSFORMER

SWITCH SWITCHGEAR SYMMETRICAL

TOP AND BOTTOM
TONGUE AND GROOVE TOP OF CURB

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S101	S001	STRUCTURAL GENERAL NOTES
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### STEECTRICAL ### ST	S301	FOUNDATION SECTIONS
ARCHITECTURAL AE100 PLATFORM SERIES - A AE100.1 PLATFORM SERIES - B AE101 PLATFORM ASERIES - B AE101 PLATFORM AND A1 PLANS, ROOF PLAN, CEILING PLAN AE102 PLATFORM A2, A3 AND A4 PLANS AE103 PLATFORM B AND B2 PLANS, ROOF PLAN AND CEILING PLA AE201 PLATFORM ELEVATIONS AE202 PLATFORM ELEVATIONS AE202 PLATFORM ELEVATIONS AE203 PLATFORM ELEVATIONS AE301 PLATFORM ELEVATIONS AE401 PLAN DETAILS AND WALL SECTIONS AE461 PLAN DETAILS AND WALL SECTIONS BE450 SIGNAGE ELECTRICAL E001 ELECTRICAL SYMBOL LEGEND E111 POWER & SYSTEMS PLAN TYPE A E112 POWER & SYSTEMS PLAN TYPE B E113 LIGHTING PLAN E114 POWER & SYSTEMS PLAN TYPE B	S302	FOUNDATION SECTIONS
AE100 PLATFORM SERIES - A AE100.1 PLATFORM SERIES - B PLATFORM A AND A1 PLANS, ROOF PLAN, CEILING PLAN AE101 PLATFORM A AND A1 PLANS, ROOF PLAN, CEILING PLAN AE102 PLATFORM A2, A3 AND A4 PLANS AE103 PLATFORM B AND B2 PLANS, ROOF PLAN AND CEILING PLA AE201 PLATFORM ELEVATIONS AE202 PLATFORM ELEVATIONS AE203 PLATFORM ELEVATIONS AE301 PLATFORM SECTIONS AE301 PLATFORM SECTIONS AE401 PLAN DETAILS AND WALL SECTIONS DETAILS AE500 SIGNAGE ELECTRICAL E001 ELECTRICAL SYMBOL LEGEND E111 POWER & SYSTEMS PLAN TYPE A E112 POWER & SYSTEMS PLAN TYPE B E113 LIGHTING PLAN E114 POWER & SYSTEMS PLAN TYPE B	S311	FRAMING SECTIONS
AE100 PLATFORM SERIES - A AE100.1 PLATFORM SERIES - B PLATFORM A AND A1 PLANS, ROOF PLAN, CEILING PLAN AE101 PLATFORM A AND A1 PLANS, ROOF PLAN, CEILING PLAN AE102 PLATFORM A2, A3 AND A4 PLANS AE103 PLATFORM B AND B2 PLANS, ROOF PLAN AND CEILING PLA AE201 PLATFORM ELEVATIONS AE202 PLATFORM ELEVATIONS AE203 PLATFORM ELEVATIONS AE301 PLATFORM SECTIONS AE301 PLATFORM SECTIONS AE401 PLAN DETAILS AND WALL SECTIONS DETAILS AE500 SIGNAGE ELECTRICAL E001 ELECTRICAL SYMBOL LEGEND E111 POWER & SYSTEMS PLAN TYPE A E112 POWER & SYSTEMS PLAN TYPE B E113 LIGHTING PLAN E114 POWER & SYSTEMS PLAN TYPE B	ARCHITECTU	URAL
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AE103 PLATFORM B ÂND B2 PLANS, ROOF PLAN AND CEILING PLA AE201 PLATFORM ELEVATIONS AE202 PLATFORM ELEVATIONS AE203 PLATFORM ELEVATIONS AE301 PLATFORM SECTIONS AE401 PLAN DETAILS AND WALL SECTIONS AE4601 DETAILS AE500 SIGNAGE ELECTRICAL E0001 ELECTRICAL SYMBOL LEGEND E111 POWER & SYSTEMS PLAN TYPE A E112 POWER & SYSTEMS PLAN TYPE B E113 LIGHTING PLAN E114 POWER & SYSTEMS PLAN - SUBFED STATION (NO PCC)	AE101	PLATFORM A AND A1 PLANS, ROOF PLAN, CEILING PLAN
AE201 PLATFORM ELEVATIONS AE202 PLATFORM ELEVATIONS AE203 PLATFORM ELEVATIONS AE301 PLATFORM SECTIONS AE401 PLAN DETAILS AND WALL SECTIONS AE400 DETAILS AE500 SIGNAGE ELECTRICAL E001 ELECTRICAL SYMBOL LEGEND E111 POWER & SYSTEMS PLAN TYPE A E112 POWER & SYSTEMS PLAN TYPE B E113 LIGHTING PLAN E114 POWER & SYSTEMS PLAN - SUBFED STATION (NO PCC)	AE102	PLATFORM A2, A3 AND A4 PLANS
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AE401 PLAN DETAILS AND WALL SECTIONS AE450 DETAILS AE500 SIGNAGE ELECTRICAL SYMBOL LEGEND E001 ELECTRICAL SYMBOL LEGEND E111 POWER & SYSTEMS PLAN TYPE A E112 POWER & SYSTEMS PLAN TYPE B E113 LIGHTING PLAN E114 POWER & SYSTEMS PLAN - SUBFED STATION (NO PCC)	AE203	PLATFORM ELEVATIONS
AE450 DETAILS SIGNAGE ELECTRICAL ELECTRICAL SYMBOL LEGEND E111 POWER & SYSTEMS PLAN TYPE A E112 POWER & SYSTEMS PLAN TYPE B E113 LIGHTING PLAN E114 POWER & SYSTEMS PLAN - SUBFED STATION (NO PCC)	AE301	PLATFORM SECTIONS
AE500 SIGNAGE ELECTRICAL E001 ELECTRICAL SYMBOL LEGEND E111 POWER & SYSTEMS PLAN TYPE A E112 POWER & SYSTEMS PLAN TYPE B E113 LIGHTING SYSTEMS E114 POWER & SYSTEMS PLAN - SUBFED STATION (NO PCC)	AE401	PLAN DETAILS AND WALL SECTIONS
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E001 ELECTRICAL SYMBOL LEGEND E111 POWER & SYSTEMS PLAN TYPE A E112 POWER & SYSTEMS PLAN TYPE B E113 LIGHTING PLAN E114 POWER & SYSTEMS PLAN - SUBFED STATION (NO PCC)	AE500	SIGNAGE
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E112 POWER & SYSTEMS PLAN TYPE B E113 LIGHTING PLAN E114 POWER & SYSTEMS PLAN - SUBFED STATION (NO PCC)		
E113 LIGHTING PLAN E114 POWER & SYSTEMS PLAN - SUBFED STATION (NO PCC)		POWER & SYSTEMS PLAN TYPE B
E114 POWER & SYSTEMS PLAN - SUBFED STATION (NO PCC)		
	E501	
E502 SNOW MELT SYSTEM DETAILS	E502	SNOW MELT SYSTEM DETAILS

GENERAL NOTES

- 1. SITE WORK INCLUDING BUT NOT LIMITED TO CONCRETE WORK, SITE STIE WORK INCLUDING BUT IN OT LIMITED TO CONCRETE WORK, STIE UTILITIES, ETC... TO BE PROVIDED IN OTHER SUBMITTALS. SEE SHEET COORD-001 FOR FURTHER DESCRIPTION OF WORK INCLUDED IN STATION CANOPY PACKAGE. SEE COORD-002 FOR SUBMITTALS INFORMATION. SEE STRUCTURAL FOR ANCHOR BOLT COORDINATION. SEE ELECTRICAL AND STRUCTURAL FOR STUBBED UP CONDUIT COORDINATION.
- ALL METAL PANELS NOTED AS REMOVABLE SHALL BE TAMPER PROOF AND ONLY REMOVABLE BY THE OWNER WITH A SPECIAL TOOL OR APPROVED OTHER MEANS.
- 3. SEAL ALL PENETRATIONS IN METAL PANELS WATER TIGHT.



SHEET INDEX, ABBREVIATIONS AND GENERAL SYMBOLS GI002









YARD HYDRANT





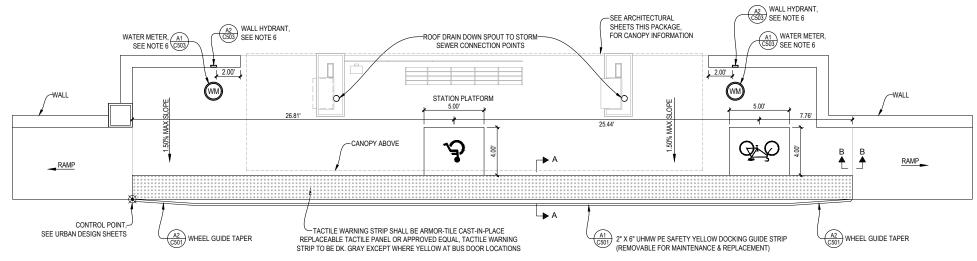


- NOTES:

 1. STATION TYPES VARY BY LOCATION. SEE CONSTRUCTION SHEETS. TYPICAL ALL STATIONS. 2. REFER TO URBAN DESIGN SHEETS WITHIN ROADWAY PACKAGES 2, 4, & 5 FOR GRADES.

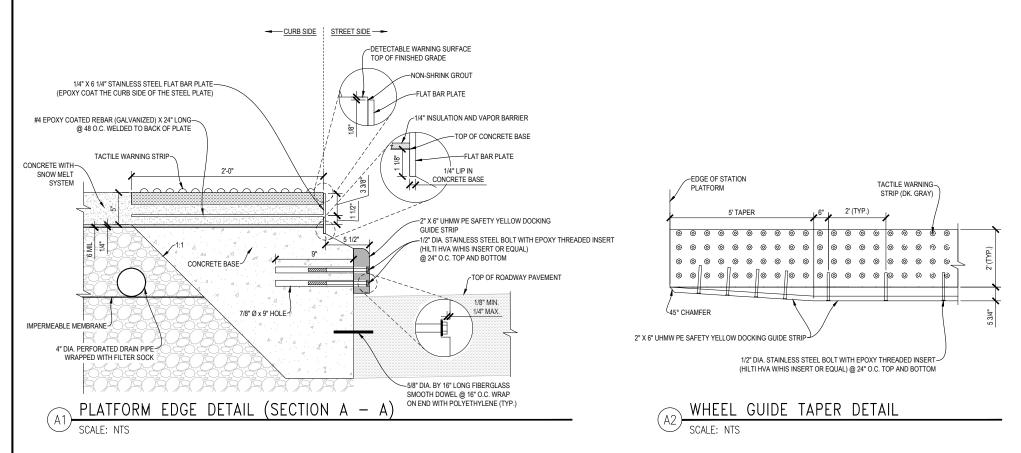
 3. REFER TO PLAN AND PROFILE SHEETS FOR UTILITIES.

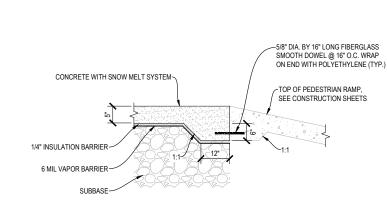
- 4. RAMP AND WALL CONDITIONS VARY. SEE CONSTRUCTION SHEETS. TYPICAL ALL STATIONS.
- 5. REFER TO ARCHITECTURE SHEETS FOR ROOF DRAIN CONNECTION POINT. 6. WATER METERS AND WALL HYDRANTS ARE SHOWN IN PREFERRED LOCATIONS FOR
- REFERENCE ONLY. CONTRACTOR SHALL INSTALL ONE METER AND ONE WALL HYDRANT PER STATION. REFER TO CONSTRUCTION DRAWINGS FOR ACTUAL LOCATION.
- 7. ACCESSIBLE BOARDING AREA SYMBOL AND BIKE BOARDING AREA SYMBOL TO BE TILCO VANGUARD MM8 STENCILS OR APPROVED EQUAL. USE THE INTERNATIONAL SYMBOL OF ${\tt ACCESSIBILITY} \ {\tt FOR} \ {\tt GRAPHIC}. \ {\tt FOR} \ {\tt THE} \ {\tt BIKE} \ {\tt GRAPHIC}, \ {\tt USE} \ {\tt THE} \ {\tt STANDARD} \ {\tt SYMBOL} \ {\tt FROM} \ {\tt THE}$ MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



STREET

TYPICAL STATION PLATFORM SCALE: 1" = 4'-0"





DOWEL DETAIL (SECTION B - B)

CIVIL DETAILS C501

FOR INFORMATION ONLY







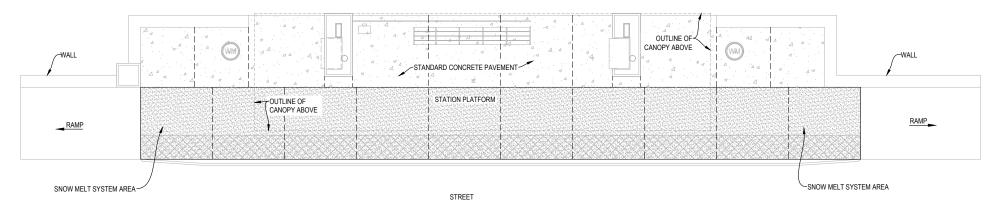
002-10178-000 8600 INDIAN HILLS DRIVE OMAHA, NE 68114-4039



- 1. SNOW MELT SYSTEM SHALL BE PLACED UNDER THE ENTIRE LENGTH OF THE TACTILE WARNING STRIP.
- SEE ELECTRICAL PLANS FOR ELECTRICAL ELEMENT OF SNOW MELT SYSTEM.
 COORDINATE INSTALLATION OF SNOW MELT SYSTEM WITH THE SNOW MELT SYSTEM DESIGNER.

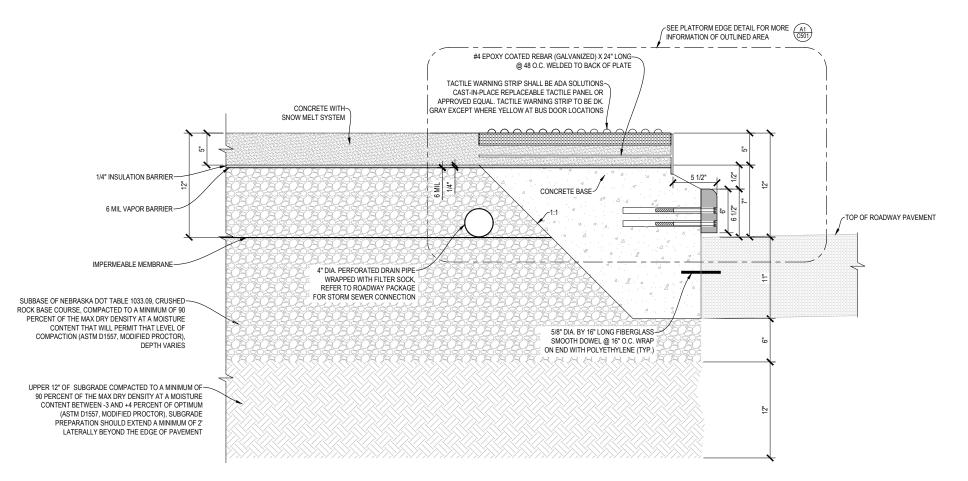


____ CONTRACTION JOINT



AREA OF CONCRETE WITH SNOW MELT SYSTEM

SCALE: 1" = 4'-0"



CLIENT

2222 CUMING STREET
OMAHA, NEBRASKA 68102
(402) 341-0800

SNOW MELT SYSTEM DETAIL

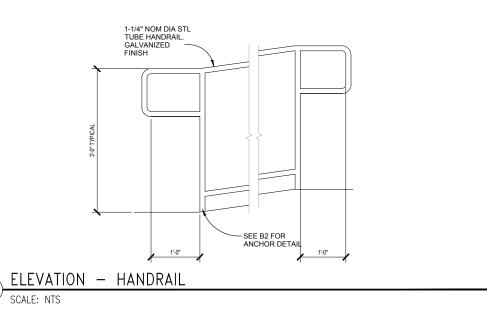
CIVIL DETAILS C502

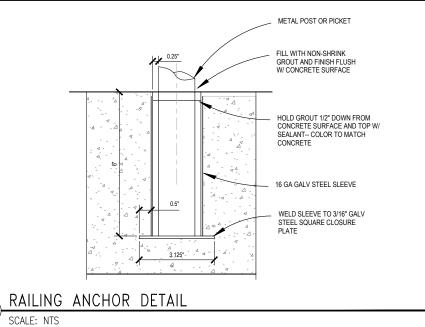
CRBT



LEO A DAILY 002-10178-000 8600 INDIAN HILLS DRIVE OMAHA, NE 68114-4039







SIDEWALK WHERE OCCURS

PLATFORM EDGE
AND SIDEWALK

CONDUCTIVE CONCRETE

CONDUCTIVE CONCRETE

AND SIDEWALK

CONCRETE

AND SIDEWALK

CONCRETE

CONCRETE

CONCRETE

AND SIDEWALK

CONCRETE

C

METER -WATER SERVICE DUAL CHECK VALVE-LOCKABLE SHUTOFF FORD 70 SERIES COPPER SETTER & 18x24-DFW PLASTICS ROUND METER BOX WITH -DFW PLASTICS HEAVY DUTY POLYMER LID, OR APPROVED EQUAL FORD ELECTRONIC READ LID SET ON FINAL -GRADE -DFW PLASTICS inc. HEAVY DUTY POLYMER ROUND METER BOX, OR APPROVED EQUAL -COMPACTED GRAVEL SUPPLY TO WALL HYDRANT WATER SERVICE NOTES:

1. WATER LINE TYPE AND CONNECTIONS SHALL MEET METER BETWEEN WATER SUPPLY AND WALL HYDRANT 2. CONTRACTOR TO COORDINATE WATER METER INSTALLATION WITH M.U.D. WATER METER
SCALE: NTS

HY-450
Moderate Climate Narrow Wall
Hydrant w/NB Box
Specification

Watts HY-450 concelled moderate climate anti-siphon narrow wall hydrant with nickel bronze box, chrome plated face, integral vacuum breaker, 3/4* hose connection, 380 degree swivel pipe connection with 3/4* fremile / 1* male threads. Bronze head, seat casting, interns working parts, and loose key, Compiles with ASSE 1019-2004, UPC/IAPMO Listed. Max. operating pressure 125 psl.

Heavy Duty Chrome Plated Bronze Head Casting
Vandal Resistant Integral
Vandal Resistant I

WALL HYDRANT

✓ SCALE: NIS

CIVIL DETAILS
C503

CLIENT

2222 CUMING STREET
OMAHA, NEBRASKA 68102
(402) 341-0800





002-10178-000 8600 INDIAN HILLS DRIVE OMAHA, NE 68114-4039

ALL STRUCTURAL STEEL W SHAPES SHALL BE ASTM A992

BASE PLATE HOLE AND WASHER SIZES FOR ANCHOR RODS

DIAMETER

1 9/16"ø

1 13/16"ø

2 1/16"ø

2 5/16"ø

2 3/4"ø

3 3/4"ø

ACCORDANCE WITH SECTION M2.8 OF THE AISC SPECIFICATION.

COVERED BY CONCRETE IN FINISHED STRUCTURE

SOCIETY (AWS) "STRUCTURAL WELDING CODE" AWS D1.1 - LATEST EDITION.

THE FREE END OF CANITILEVERS SHALL USE FULL-DEPTH STIFFENERS EACH SIDE.

ANCHOR ROD BASE PLATE HOLE

SIZE

7/8"ø

1"ø

1 1/4"ø

1 1/2"ø

1 3/4"ø

2 1/2"ø

STRUCTURAL STEEL FOR CHANNELS ANGLES AND PLATES SHALL BE ASTM A36

ALL ANCHOR RODS SHALL BE ASTM F1554, GRADE 55 UNLESS NOTED OTHERWISE.

TABLE 051200-1 - STRUCTURAL STEEL FRAMING ANCHOR ROD SCHEDULE

WHERE PLATES ARE INDICATED WITH Fy = 50 KSI, THEY SHALL BE ASTM A572, GRADE 50.

STRUCTURAL STEEL HAS BEEN DESIGNED IN ACCORDANCE WITH "AISC 360-05, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, 2005". ALLOWABLE STRENGTH DESIGN METHOD.

ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4-INCH DIAMETER ASTM A325 BOLTS (BEARING TYPE CONNECTION), UNLESS NOTED OTHERWISE. BOLTS SHALL BE TIGHTENED (SNUG-TIGHT) IN CONFORMANCE

WITH "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS OF THE ENGINEERING FOUNDATION.

STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B WITH A MINIMUM YIELD STRENGTH OF 46,000

MIN. WASHER

DIAMETER

2 1/2"ø

3"ø

3 1/2"ø

4"ø

ALL WELDING SHALL BE DONE WITH E70XX FLECTRODES IN CONFORMANCE WITH THE AMERICAN WELDING

ALL RE-ENTRANT CORNERS OF BEAM COPES AND PLATE CUTS MUST BE SHAPED NOTCH-FREE PER AWS D1.1 TO A RADIUS. AN APPROXIMATE MINIMUM RADIUS TO WHICH THIS CORNER MUST BE SHAPED IS 1/2 INCH.

BEARING SURFACES OF COLUMNS SHALL BE FINISHED TO PROVIDE FULL BEARING CONTACT WITH BASE PLATE

(AND CAP PLATE IF REQUIRED BY LOAD TRANSFER). BASE PLATES AND CAP PLATES SHALL BE FINISHED IN

ALL STEEL MEMBERS AND COMPONENTS EXPOSED TO EXTERIOR CONDITIONS WITHIN THE CAVITY OF THE

EXTERIOR WALL OR LOCATED OUTSIDE THE EXTERIOR VAPOR BARRIER SHALL BE GALVANIZED. APPLY ZINC COATING BY THE HOT DIP PROCESS ACCORDING TO ASTM A123. AFTER ERECTION OF STEEL, REPAIR

DAMAGED GALVANIZED COATING WITH GALVANIZED REPAIR PAINT. FILL ALL BENT HOLES THAT WILL NOT BE

ALL INTERIOR EXPOSED STEEL SHALL MEET PRIMING AND PAINTING REQUIREMENTS AS DEFINED IN THE INTERIOR PAINTING SPECIFICATION.

MIN. WASHER

THICKNESS

5/16"

(LINI ESS NOTED OTHERWISE)

(UNLESS NOTED OTHERWISE)

INTERNATIONAL BUILDING CODE 2006 WITH OMAHA CODE AMENDMENTS ACI 318-05 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AISC 360-05 SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES INCLUDING SUPPLEMENT NO.

1 AND 2. EXCLUDING CHAPTER 14 AND APPENDIX 11A AWS D1.1-04 STRUCTURAL WELDING CODE - STEEL

AWS D1.3-08 STRUCTURAL WELDING CODE - SHEET STEEL AWS D1.4-98 STRUCTURAL WELDING CODE - REINFORCING STEEL

AISC 303-10 CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL BUILDING AND BRIDGES

ACI 301-10 CODE OF STANDARD PRACTICE FOR REINFORCED CONCRETE BUILDINGS

OTHER SELECT REFERENCED STANDARDS MAY BE INDICATED ELSEWHERE IN THE CONTRACT DOCUMENTS, AS APPLICABLE.

THE PROVISIONS OF THE REFERENCED BUILDING CODE AND ALL REFERENCED STANDARDS THEREIN SHALL APPLY TO THIS PROJECT. WHERE THERE IS A CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL BE APPLICABLE. TYPICALLY, THE LATEST EDITION OF CONSTRUCTION STANDARDS SHALL BE UTILIZED, AS APPROVED BY THE AUTHORITY HAVING

INTERPRETATION OF CONFLICTS

SHOULD CONFLICTS OCCUR IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REQUEST INTERPRETATION BEFORE PROCEEDING WITH THE ASSOCIATED WORK. ALL SUCH REQUESTS SHALL FIRST BE PRECEDED BY A DILIGENT INVESTIGATION INTO THE CONTRACT DOCUMENTS. EVIDENCE OF SUCH INVESTIGATION SHALL BE CONTAINED IN ALL REQUESTS FOR INTERPRETATION SUBMITTED.

IF THE CONTRACTOR FAILS TO MAKE SUCH A REQUEST, THE CONTRACTOR IS EXPECTED TO COMPLETE THE WORK AS INDICATED IN THE CONTRACT DOCUMENTS. SHOULD CONFLICTS OCCUR IN OR RETWEEN DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL ESTIMATE THE COST OF THE WORK BASED ON THE MORE EXPENSIVE WAY OF DOING THE WORK UNLESS HAVING ASKED FOR, AND OBTAINED, WRITTEN DECISION BEFORE SUBMISSION OF PROPOSAL AS TO WHICH METHOD OR MATERIALS WILL BE REQUIRED

STRUCTURAL MEMBERS HAVE BEEN DESIGNED TO ACCOMODATE THE FOLLOWINGS LOADS:

A. FLOOR LIVE LOADS

THE "TYPICAL MINIMUM LIVE LOAD USED FOR DESIGN" INDICATED BELOW WAS USED FOR ALL OCCUPANCY OR USE TYPES, EXCEPT THOSE WHERE THE "CODE-SPECIFIED MINIMUM LIVE LOADS" ARE GREATER, IN WHICH CASE THE ASSOCIATED LIVE LOAD INDICATED IN THE TABLE WAS USED FOR DESIGN. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR THE DEFINITION OF SPACES.

TYPICAL MINIMUM LIVE LOAD USED FOR DESIGN - SEE TABLE BELOW

TABLE 010000-1 - CODE-SPECIFIED MINIMUM LIVE LOADS					
OCCUPANCY	UNIFORMLY DISTRIBUTED LOAD (PSF)	CONCENTRATED LOAD * (LBS)			
SIDEWALKS	250	8000			

* UNLESS OTHERWISE INDICATED. THE CONCENTRATED LOAD INDICATED WAS DISTRIBUTED OVER AN AREA OF 4.5 INCHES BY 4.5 INCHES (20.25 SQUARE INCHES), AND LOCATED AS TO PROVIDE THE MAXIMUM LOAD EFFECTS IN THE STRUCTURAL MEMBERS.

B. ROOF LIVE LOADS

25 PSF MINIMUM ROOF LIVE LOAD

C. LIVE LOAD REDUCTIONS HAVE NOT BEEN APPLIED.

ROOF SNOW LOADS. APPLIED IN ACCORDANCE WITH THE BUILDING CODE INDICATED HEREIN

GROUND SNOW LOAD, Pg = 25 PSF FLAT ROOF SNOW LOAD, Pf = 21 PSF

SNOW EXPOSURE FACTOR. Ce = 1.0 SNOW IMPORTANCE FACTOR, I = 1.0

THERMAL FACTOR, Ct = 1.2

PARTIAL, UNBALANCED, AND DRIFT SNOW LOADING HAVE BEEN APPLIED AS REQUIRED FOR DESIGNS INDICATED HEREIN.

SNOW LOADS ARE NOT REDUCIBLE

E. WIND LOADS. APPLIED IN ACCORDANCE WITH THE BUILDING CODE INDICATED HEREIN.

BASIC WIND SPEED, V = 90 MPH WIND IMPORTANCE FACTOR, I = 1.0 OCCUPANCY CATEGORY = II

WIND EXPOSURE = "C" INTERNAL PRESSURE COEFFICIENT, GPi = +/- 0.55

COMPONENTS AND CLADDING WIND LOADS

	TABLE 010000-2 - WIND LOAD SCHEDULE					
TABLE 0	10000-2 -WIND LO	ADS *(PSF) FOR COMPO	NENTS AND CLADDING, LOW-RIS	SE BUILDING		
			EFFECTIVE WIND AREA **			
SURFACE	AREA	AEFF < 10 SF	10 SF ≤ AEFF < 100 SF	AEFF > 100 SF		
ROOF INTERIOR ZONES	TYPICAL, UNO	+12.73 / -23.22	LINEAR INTERPOLATION PERMITTED	+11.24 / -21.72		
ROOF END ZONES	WITHIN 3 FEET OF EDGES	+12.73 / -35.20	LINEAR INTERPOLATION PERMITTED	+11.24 / -24.72		
ROOF CORNER ZONES	WITHIN 3 FEET OF CORNERS	+12.73 / -50.18	LINEAR INTERPOLATION PERMITTED	+11.24 / -24.72		
		AEFF < 10 SF	10 SF ≤ AEFF < 500 SF	AEFF > 500 SF		
ROOF INTERIOR ZONES	TYPICAL, UNO	+23.22 / -24.72	LINEAR INTERPOLATION PERMITTED	+18.73 / -20.22		
WALLS END ZONES	WITHIN 3 FEET OF EDGES	+23.22 / -29.21	LINEAR INTERPOLATION PERMITTED	+18.73 / -20.22		
* PRESSURES SHO	OWN ARE APPLIE	D NORMAL TO THE SURI	ACE. PLUS AND MINUS SIGNS	SIGNIFY		

PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.

** SEE ASCE 7 FOR DEFINITION FOR EFFECTIVE WIND AREAS BETWEEN THOSE GIVEN VALUES MAY BE LINEARLY INTERPOLATED, OTHERWISE USE VALUES ASSOCIATED WITH THE LOWER EFFECTIVE WIND AREA.

G. SEISMIC LOADS. APPLIED IN ACCORDANCE WITH THE BUILDING CODE INDICATED HEREIN.

SEISMIC IMPORTANCE FACTOR, le = 1.0 OCCUPANCY CATEGORY = II MAPPED SPECTRAL RESPONSE ACCELERATIONS -SHORT PERIOD, Ss = 0.127 -ONE-SECOND PERIOD, S1 = 0.042 SPECTRAL RESPONSE COEFFICIENTS -SHORT PERIOD. Sds = 0.135

-ONE-SECOND PERIOD, Sd1 = 0.067 SEISMIC DESIGN CATEGORY, SDC = B

BASIC SEISMIC-FORCE-RESISTING SYSTEM(S) = ORDINARY CANTILEVERED COLUMN MOMENT FRAMES

DESIGN BASE SHEAR, V = 1.07 KIPS SEISMIC RESPONSE COEFFICIENT(S), Cs = 0.108 RESPONSE MODIFICATION FACTOR, R = 1.25

LONG-PERIOD TRANSITION = 12 SEC PERIOD, TL ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE

SITE CLASS: D

DESIGN ITEMS DELEGATED TO THE CONTRACTOR

THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FOLLOWING ITEMS. DESIGNS SHALL SATISFY THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

A. HANDRAILS AND GUARDRAILS

CONTRACTOR RESPONSIBILITIES

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS (INCLUDING FIELD VERIFICATIONS OF EXISTING CONDITIONS AND DIMENSIONS) BEFORE STARTING WORK OR FABRICATING ANY REINFORCING STEEL, OR STRUCTURAL STEEL. THE (ARCHITECT) (OWNER) SHALL BE NOTIFIED OF ANY DISCREPANCIES FOUND.
- SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF WALL, ROOF AND FLOOR OPENINGS AND SLEEVES, AND CONCRETE PADS UNDER EQUIPMENT. THE CONTRACTOR SHALL VERIFY EXACT SIZE AND LOCATION WITH EQUIPMENT FURNISHED. OPENINGS IN STRUCTURE TO BE

OPENINGS THROUGH METAL ROOF DECK, WHICH MEASURE 6" OR LESS IN ALL DIRECTIONS, MAY BE CUT.

FOR OPENINGS THROUGH METAL DECK WHICH MEASURE BETWEEN 6" AND 13", SEE B4/S311

- C. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING OF THE STRUCTURE (NEW AND/OR EXISTING) FOR ALL LOADS THAT MAY BE IMPOSED DURING CONSTRUCTION.
- THE DIAPHRAGM PROVIDED BY THE METAL ROOF DECK IS REQUIRED TO BRACE THE COLUMNS AND COMPLETE THE LATERAL LOAD RESISTING SYSTEM OF THE STRUCTURE. THE CONTRACTOR SHALL PROVIDE LATERAL BRACING AS REQUIRED DURING CONSTRUCTION UNTIL THE METAL ROOF DECK HAS
- ALL COLUMNS SHALL BE CENTERED ON GRID LINES UNLESS NOTED OTHERWISE
- ALL COLUMN FOOTINGS SHALL BE CENTERED ON COLUMNS UNLESS NOTED OTHERWISE.
- G. ALL WALL FOOTINGS SHALL BE CENTERED ON WALLS LINLESS NOTED OTHERWISE
- CONTRACTOR SHALL ENSURE NO STRUCTURAL MEMBERS OR ELEMENTS ARE DAMAGED OR ALTERED UNLESS SO INDICATED BY THE STRUCTURAL ENGINEER. ANY SUCH DAMAGE THAT DOES OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER AND SHALL BE THE RESPONSIBILITY OF THE

PROVISIONS FOR FUTURE EXPANSION

OTHERWISE.

NO PROVISIONS FOR FUTURE EXPANSION HAVE BEEN MADE IN THE STRUCTURAL SYSTEMS.

014000 - QUALITY REQUIREMENTS

SPECIAL INSPECTIONS AND STRUCTURAL TESTING IAND STRUCTURAL OBSERVATIONSI SHALL BE PERFORMED PER CHAPTER 17 OF IBC. THE CONTRACT DOCUMENTS, AND THE STATEMENT OF SPECIAL INSPECTIONS WHICH IS INCLUDED IN THE CONTRACT DOCUMENTS.

033000 - CAST-IN-PLACE CONCRETE (REINFORCED)

ALL STRUCTURAL CONCRETE SHALL BE DESIGNED FOR A 28-DAY COMPRESSIVE STRENGTH OF:

fc EQUALS 5000 PSI (NORMAL WEIGHT) FOUNDATIONS, FOUNDATION WALLS, AND STATION WALLS

ALL REINFORCING STEEL SHALL BE DEFORMED, NEW, AND JONFOLDM TO ASTM A615 GRADE 60

ALL PLAIN WELDED WIRE RE NFOR "EN" SNT SHALL BE NEW A 'D CONFORM TO ASTM A185. ALL DEFORMED WELDF', WILL REIN 'ORCEME, "." SHALL LE NEW AND CONFORM TO ASTM A497. CONCRETE PROTECTIVE OVERING FOR REINFORCE. "ENT AT SURFACES NOT EXPOSED

CONCRETE PROTECTIVE. "OVERING FOR F. "INTER". SIN AT SURFACES NOT EXPOSED DIRECTLY TO EARTH OR W. "FATHER SHALL B." 24" - FOR SLABS JOISTS, AND WALLS AND 1 1/2" FOR BEAM STIRRUPS AND COLUMN TIES OR SINGLESS DET MED OTHERWISE.

CONCRETE PROTECTIVE COVER". G. F. R. F. "INFORCEMENT A. JURFACES WHICH WILL BE EXPOSED TO THE WEATHER OR BL. "L. JUL" "ACT WITH "ARTH IBU. NOT CAST AGAINST) SHALL BE 2" FOR BARS LARGER THAN "5 AN. 1" "2" FOR #5 BAR. C. "SM" LLER, PROVIDE 3" COVER FOR REINFORCEMENT CAST "G." NST AT D PERMANE. "T." Y. F. "C. JED TO EARTH, UNLESS DETAILED OTTHERWISE.

PROVIDE 3/4-INCH Cr'AM, -FR ON ALL EXPOS ED COL CRETE CORNERS (UNLESS NOTED

FORMWORK Shall BE ADULISTED REFORE AND AFTER CONCRETE PLACING OPERATIONS (PRIOR TO INITIAL SET) TO COMPENSATE FOR FORMWORK DEFLECTION, IN ADDITION TO ANY CAMBER SPECIFIED ON THE DRAWINGS.

PROVIDE EXTERIOR CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCING AT ALL CONCRETE WALLS AND FOOTINGS - LAP AS PER TABLE BELOW

PROVIDE LAP SPLICES IN CONFORMANCE WITH TABLE 033000-1, UNLESS OTHERWISE INDICATED. FOLLOW RESTRICTIONS ON LOCATIONS OF SPLICES AS INDICATED IN DETAILS, NOTES, OR

TABLE 033000-1 - LAP SPLICE LENGTHS (GRADE 60 BARS, NORMAL WEIGHT CONCRETE) fc=3500 psi fc=4000 psi fc=4500 psi fc=5000 psi TOP OTHER TOP BARS BARS BARS BARS BARS BARS 2'-8" 2'-1" 3'-4" 2'-7" 2'-6" 2'-0" 3'-2" 2'-5" 3'-4" 4'-0" 3'-1" 3'-10" 2'-9" 3'-7" 4'-10" 5'-10" 4'-6" 5'-6" 4'-3" 5'-3" 4'-4" 4-10" 5-10" 4-6" 5-6" 4-3" 5-3" 4-1" 5-7" 6-8" 5-2" 6-4" 4-11" 6-0" 4-7" 6-3" 7-7" 5-10" 7-2" 5-6" 6-9" 5-3" 7-0" 8-6" 6-7" 8-0" 6-2" 7-7" 5-10" 7-10" 9-5" 7-3" 8-11" 6-40" 8-5" 6-6"

033000 - LAP SPLICE LENGTHS NOTE:

TOP BARS ARE HORIZONTAL BARS WITH WICHS THAN 12" OF CO. ICRF IE CAST BELOW BARS P. FOR LIGHT WEIGHT CONCRETE MULTUPL (LENGTH B). 1.33

. FOR GRADE 75 BARS (IF AP' LIC, BLE), I ULTIPLY LINGTH B. 1.25 4. TABULATED VALUES ARE 1 OP UNCUATED OR TINC OC 1, ED (GALVANIZED) BARS. FOR EPOXY COATED BARS, MULTIPLY LENGTH BY 1.5.

5. IF CONCRETE COVER IS LESS THAN 1.0 × du >> C C > PACING IS LESS THAN 3.0 x db, MULTIPLY LENGTH BY 1.5. (db = BAR DIAMETER)

- WHERE REINFORCING STEF _IN TE, SION IS REQLIBED 10 BE MECHANICALLY SPLICED, MECHANICAL SPLICE SHALL IS DESIGNED FOR 1.5% OF THE SPECIFIED YIELD STRENGTH OF THE LARGER BAR BEING SPLICEL
- NO PENETRATIONS (SUCH AS r. PE SLEEVES, ELECTRICAL CONDUITS, ETC.) THROUGH ANY STRUCTURAL MEMBER, Sh. ILL BE MADE WITHOUT APPROVAL BY THE STRUCTURAL ENGINEER UNLESS INDICATED ON D. AWINGS.
- BEAM REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-LATEST EDITION, SECTIONS 7.13.2.2 AND 7.13.2.3, REQUIREMENTS FOR STRUCTURAL INTEGRITY.
- NON-CONTINUOUS ENDS OF TOP BARS IN BEAMS AND SLABS SHALL TERMINATE WITH A STANDARD 90-DEGREE OR 180-DEGREE HOOK, UNLESS DETAILED OTHERWISE.
- ANY CONDUIT (PLASTIC OR METAL) EMBEDDED IN THE STRUCTURE SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO PLACEMENT. PROVISIONS OF ACI 318-05 SECTION 6.3 SHALL BE FOLLOWED
- A. EMBEDDED CONDUIT OR PIPE MAY BE PLASTIC OR STEEL. EMBEDDED ITEMS MAY NOT BE
- B. NO CONDUIT OR PIPE SHALL HAVE AN OUTSIDE DIAMETER LARGER THAN 1/3 THE OVERALL THICKNESS OF SLAB OR WALL IN WHICH THEY ARE EMBEDDED. IF CONDUITS CROSS, THE MAXIMUM DIAMETER OF EACH CONDUIT SHALL BE NO GREATER THAN 3/4*
- C. CONDUIT AND PIPE SHALL HAVE A MINIMUM SPACING OF THREE DIAMETERS OR WIDTHS ON CENTER.
- D. CONCRETE COVER FOR PIPES, CONDUITS, ANS FITTINGS SHALL BE A MINIMUM 1-1/2" FOR CONCRETE EXPOSED TO EARTH OR WEATHER, 3/4" FOR CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND.
- E. CONDUIT AND PIPING SHALL BE FABRICATED AND INSTALLED SO THERE IS NO CONTACT, INTERRUPTION, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION.

053100 - STEEL DECKING

- DESIGN AND CONSTRUCTION OF STEEL ROOF DECK SHALL CONFORM TO ANSI/SDI-RD1.0.
- STEEL DECKING SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM YIELD STRENGTHS:

Fy = 33 ksi (STEEL ROOF DECK)

- ALL METAL DECKING SHALL BE GALVANIZED PER THE SPECIFICATIONS.
- STEEL ROOF DECK (TYPE "1") SHALL BE 1-1/2 INCH, 20 GAUGE TYPE "B" WIDE RIB METAL DECK HAVING THE FOLLOWING MINIMUM SECTION PROPERTIES:

lp = 0.201 IN^4/FT

In = 0.222 IN^4/FT Sp = 0.234 IN^3/FT

Sn = 0.247 IN^3/FT

p = FOR POSITIVE BENDING n = FOR NEGATIVE BENDING

CAPACITY OF 255 PLF

ATTACH STEEL ROOF DECK USING THE FOLLOWING FASTENER PATTERN TO ACHIEVE A DIAPHRAGM

36/4 AT ENDS AND INTERMEDIATE SUPPORTS (5/8" WELD OR EQUIV.)

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4 SIDE LAP FASTENERS EQUALLY SPACED PER SPAN (#10 TEK SCREW OR EQUIV.)

METAL DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SPANS, UNO.

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- STEEL ROOF DECK SHALL BE ANCHORED TO ROOF TO RESIST A GROSS UPLIFT LOAD AS INDICATED IN SECTION 010000.
- PROVIDE ADDITIONAL ANGLES TO SUPPORT DECKING AT AREAS WHERE DECK IS CUT FOR COLUMNS OR OTHER PENETRATIONS TO PREVENT WEAKENED AREAS IN DECKING.

THESE GENERAL NOTES ARE ORGANIZED BY THE SPECIFICATION NUMBER MOST CLOSELY ASSOCIATED WITH THE INFORMATION, ALTHOUGH SOME UNIQUE NUMBI HAD TO BE ASSIGNED TO SECTIONS NOT INCLUDED IN THE SPECIFICATIONS. THESE RUCTURAL GENERAL NOTES APPLY TO ALL WORK, NOT JUST FOR WORK WITHIN E SECTION NUMBER INDICATED. ALSO REFER TO SPECIFICATIONS FOR DITIONAL INFORMATION.

STRUCTURAL GENERAL NOTES **S001**

12120 SHAMBOCK PLZ STE 10

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316000 - GENERAL FOUNDATIONS

- A FOUNDATION INVESTIGATION WAS MADE BY THIELE GEOTECH INC. DATED MARCH 27, 2018. THIS REPORT IS INCLUDED FOR INFORMATION WITHIN SECTION 003132, OF THE SPECIFICATIN "GEOTECHNICAL REPORT".
- BACKFILLING AGAINST WALLS AND GRADE BEAMS SHALL NOT BE DONE UNTIL CONCRETE HAS ATTAINED SUFFICIENT STRENGTH AND WALLS ARE PROPERLY SHORED OR BRACED. WHERE BACKFILL IS REQUIRED ON BOTH SIDES OF WALLS, BACKFILL BOTH SIDES
- WHERE WALLS ARE SUPPORTED BY CONCRETE SLABS, SLABS SHALL HAVE CURED A MINIMUM 7 DAYS BEFORE BACKFILLING.

316100 - SPREAD FOOTINGS

ALL FOOTINGS SHALL BEAR ON NEW STRUCTURAL FILL. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3-6" BELOW FINISHED GRADE. ELEVATIONS OF BOTTOM OF ALL FOOTINGS HAVE BEEN ESTIMATED BASED ON AVAILABLE INFORMATION AND SHALL NOT BE CONSTRUED AS WAIVING ANY OF THE MINIMUM REQUIREMENTS ON THESE DRAWINGS AND IN THE SPECIFICATIONS. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE SPECIAL INSPECTOR PRIOR TO CONSTRUCTION OF THE FOOTINGS. ALLOWABLE SOIL BEARING PRESSURE:

REFER TO THE TABLE BELOW SHOWING THE ALLOWABLE BEARING PRESSURES AND ASSOCIATED SUBGRADE MODULUS FOR THE STATION LOCATIONS (DEAD LOAD PLUS FULL LIVE LOAD)

STATION BEARING CAPACITIES AND MODULUS OF SUBGRADE					
STATION LOCATION	BEARING CAPACITY (PSF)	MODULUS OF SUBGRADE, K (PCI)			
12TH AND DODGE (WB)	2,000	115			
16TH AND DODGE (WB)	2,000	115			
20TH AND DODGE (WB)	2,000	115			
24TH AND DODGE (WB)	2,000	115			
PARK AVENUE AND DODGE (WB)	2,000	115			
33RD AND DODGE (WB)	1,750	110			
35TH AND DODGE (EB)	1,750	110			
42ND AND DODGE (WB)	2,000	115			
42ND AND DODGE (EB)	1,500	100			
49TH AND DODGE (WB)	1,750	110			
49TH AND DODGE (EB)	1,500	100			
62ND AND DODGE (WB)	2,500	130			
62ND AND DODGE (EB)	2,000	115			
72ND AND DODGE (WB)	2,000	115			
72ND AND DODGE (EB)	2,500	130			
84TH AND DODGE (WB)	1,500	100			
84TH AND DODGE (EB)	2,000	115			
90TH AND DODGE (WB)	2,000	115			
90TH AND DODGE (EB)	2,000	115			
WESTROADS (EB)	2,000	115			
10TH AND DOUGLAS (EB)	2,000	115			
15TH AND DOUGLAS (EB)	2,000	115			
19TH AND DOUGLAS (EB)	1,750	110			
24TH AND DOUGLAS (EB)	2,500	130			
30TH AND DOUGLAS (EB)	3,000	150			

RETAINING WALLS = MAXIMUM TOE PRESSURE SHALL BE APPLICABLE TO THE TABLE ABOVE INFORMATION PRESENTED IN TABLE ABOVE IS SUBJECT TO CHANGE BASED ON FINAL PLATFORM

- ALLOWABLE FOUNDATION BASE ADHESION = 500 PSF.
- ALLOWABLE PASSIVE SOIL PRESSURE FOR SLIDING RESISTANCE: 250 PCF EQUIVALENT FLUID PRESSURE

TABLE 033000-2 - STRAIGHT BAR EMBEDMENT LENGTHS (GRADE 60 BARS, NORMAL WEIGHT CONCRETE)										
	f'c = 3	3000 psi	fc = 3	3500 psi	fc = 4	1000 psi	f'c = 4	1500 psi	fc = 5	5000 psi
	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
BAR SIZE	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS	BARS
		•								
#3	1'-10"	1'-5"	1'-8"	1'-4"	1'-7"	1'-3"	1'-6"	1'-2"	1'-5"	1'-1"
#4	2'-5"	1'-10"	2'-3"	1'-8"	2'-1"	1'-7"	2'-0"	1'-6"	1'-10"	1'-5"
#5	3'-0"	2'-4"	2'-9"	2'-2"	2'-7"	2'-0"	2'-5"	1'-11"	2'-4"	1'-10"
#6	3'-7"	2'-9"	3'-4"	2'-7"	3'-1"	2'-5"	2'-11"	2'-3"	2'-9"	2'-2"
#7	5'-3"	4'-0"	4'-10"	3'-8"	4'-6"	3'-6"	4'-3"	3'-3"	4'-1"	3'-1"
#8	6'-0"	4'-7"	5'-7"	4'-3"	5'-2"	4'-0"	4'-11"	3'-9"	4'-7"	3'-7"
#9	6'-9"	5'-2"	6'-3"	4'-9"	5'-10"	4'-6"	5'-6"	4'-3"	5'-3"	4'-0"
#10	7'-7"	5'-10"	7'-0"	5'-5"	6'-5"	5'-1"	6'-2"	4'-9"	5'-10"	4'-6"
#11	8'-5"	6'-6"	7'-10"	6'-0"	7'-3"	5'-7"	6'-10"	5'-4"	6'-6"	5'-0"

TABLE 033000-2 - STRAIGHT BAR EMBEDMENT LENGTHS NOTES

- 1. SEE TABLE 033000-1 FOR LAP SPLICE LENGTH REQUIREMENTS.
- 2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OR CONCRETE CAST BELOW BARS.
- 3. TABULATED VALUES ARE FOR UNCOATED OR ZINC-COATED (GALVANIZED) BARS. FOR EPOXY COATED BARS, MULTIPLY LENGTH
- 4. IF CONCRETE COVER IS LESS THAN 1.0 x db OR C-C SPACING IS LESS THAN 3.0 x db, MULTIPLY LENGTH BY 1.5 (db = BAR

				T	IGHT CONCRETE
BAR SIZE	fc = 3000 psi	fc = 3500 psi	fc = 4000 psi	fc = 4500 psi	fc = 5000 psi
#3	0'-9"	0'-8"	0'-7"	0'-7"	0'-7"
#4	0'-11"	0'-10"	0'-10"	0'-9"	0'-9"
#5	1'-2"	1'-1"	1'-0"	0'-11"	0'-11"
#6	1'-5"	1'-4"	1'-3"	1'-2"	1'-1"
#7	1'-7"	1'-6"	1'-5"	1'-4"	1'-3"
#8	1'-10"	1'-8"	1'-7"	1'-6"	1'-5"
#9	2'-1"	1'-9"	1'-10"	1'-8"	1'-7"
#10	2'-4"	2'-2"	2'-0"	1'-11"	1'-10"
#11	2'-7"	2'-5"	2'-3"	2'-1"	2'-0"

TABLE 033000-3 - STANDARD HOOK EMBEDMENT NOTES

TABLE APPLIES TO STANDARD 90-DEGREE HOOKS AND STANDARD 180-DEGREE HOOKS.

- 2. SEE DIAGRAM 033000-1. OTHER DETAILS MAY ALSO INDICATE EMBED REQUIREMENTS.
- 3. TABULATED VALUES ARE FOR UNCOATED OR ZINC-COATED (GALVANIZED) BARS. FOR EPOXY BARS, MULTIPLY LENGTH
- 4. IF CONCRETE SIDE COVER (NORMAL TO PLANE OF HOOKS) IS NOT LESS THAN 2 1/2 INCHES, AND FOR 90-DEGREE HOOKS WITH COVER ON THE BAR EXTENSION BEYOND THE HOOK NOT LESS THAN 2 INCHES, THE LENGTH MAY BE

STRUCTURAL GENERAL NOTES **S002**

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2222 CUMING STREET

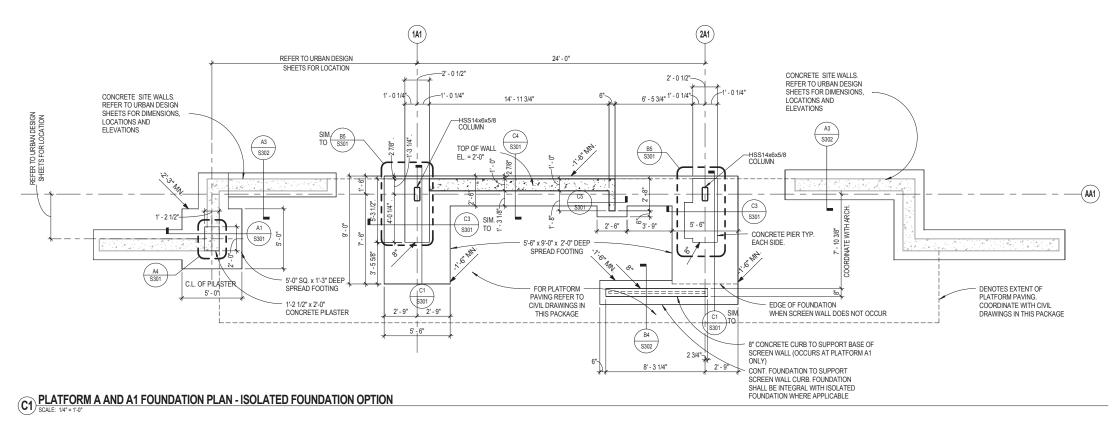


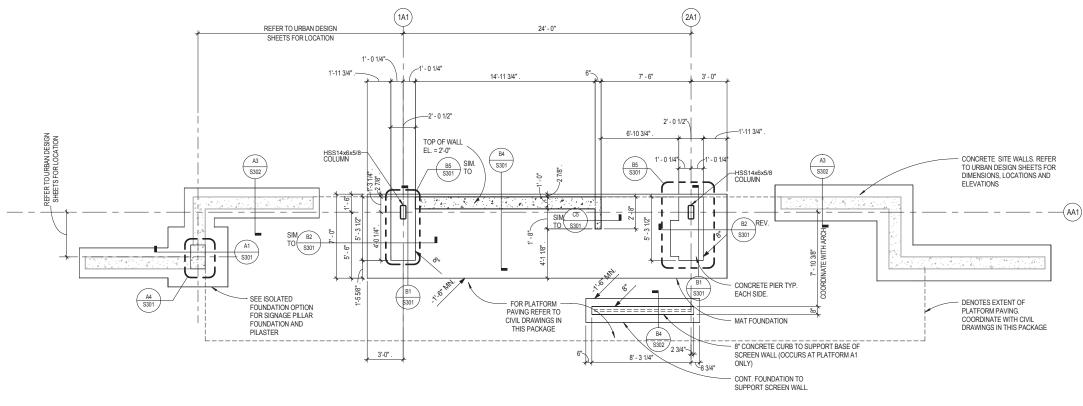




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FOUNDATION PLAN NOTES:

1. FOR STRUCTURAL GENERAL NOTES - SEE SHEETS S001 (8/38) AND S002 (9/38).



2. INDICATES EL. FROM PLATFORM ELEVATION

3. FOR OVER EXCAVATION INFORMATION REFER TO DETAIL

A1

S302

4. MAT FOUNDATION OR ISOLATED FOUNDATION MAY BE USED AT CONTRACTORS OPTION AT EACH STATION LOCATION

5. REFER TO THE URBAN DESIGN SHEETS FOR PLATFORM ELEVATIONS

PLATFORM A AND A1 FOUNDATION PLANS S101

FOR INFORMATION ONLY

(A1) PLATFORM A AND A1 FOUNDATION PLAN - MAT FOUNDATION OPTION









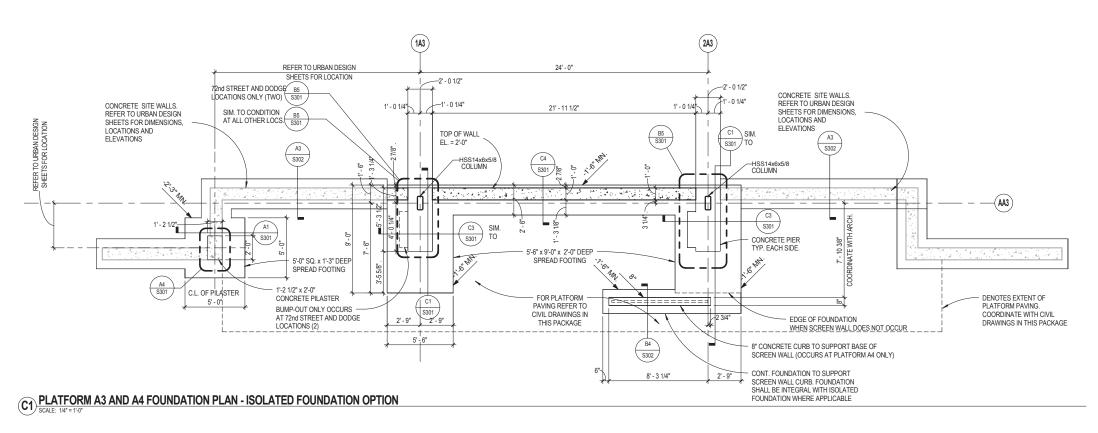
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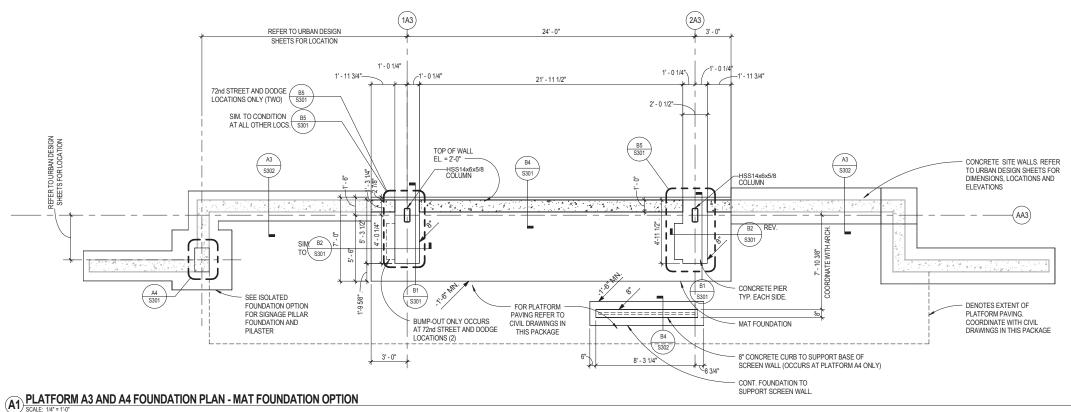
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OPW 53347





PLATFORM A3 AND A4 FOUNDATION PLANS









FOUNDATION PLAN NOTES:

LOCATION

1. FOR STRUCTURAL GENERAL NOTES - SEE SHEETS S001 (8/38) AND S002 (9/38).

INDICATES EL. FROM PLATFORM ELEVATION

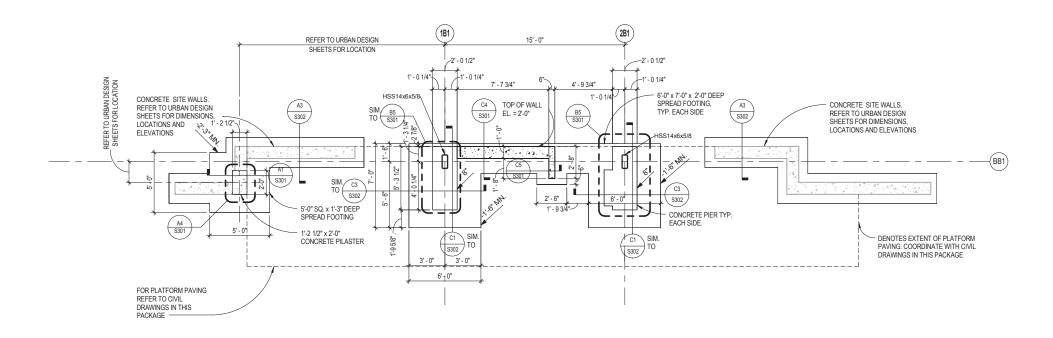
3. FOR OVER EXCAVATION INFORMATION REFER TO DETAIL A1

5. REFER TO THE URBAN DESIGN SHEETS FOR PLATFORM ELEVATIONS

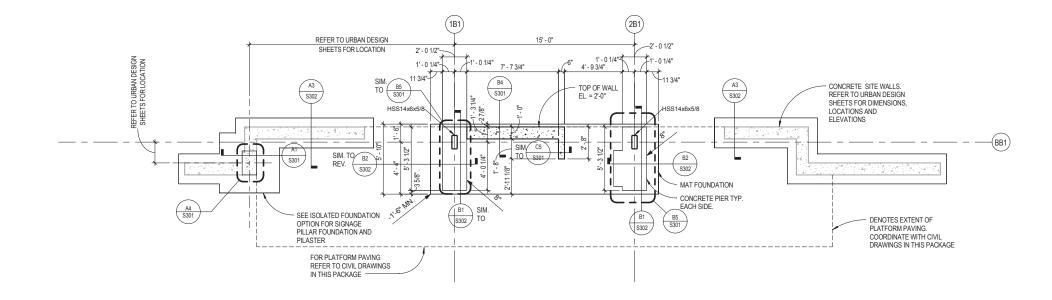
MAT FOUNDATION OR ISOLATED FOUNDATION
 MAY BE USED AT CONTRACTORS OPTION AT EACH STATION

OPW 53347

S103



PLATFORM B FOUNDATION PLAN - ISOLATED FOUNDATION OPTION



PLATFORM B FOUNDATION PLAN S104

FOR INFORMATION ONLY

PLATFORM B FOUNDATION PLAN - MAT FOUNDATION OPTION
SCALE: 1/4" = 1-0"







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FOUNDATION PLAN NOTES:

1. FOR STRUCTURAL GENERAL NOTES - SEE SHEETS S001 (8/38) AND S002 (9/38).

2. INDICATES EL. FROM PLATFORM ELEVATION

4. MAT FOUNDATION OR ISOLATED FOUNDATION

3. FOR OVER EXCAVATION INFORMATION REFER TO DETAIL

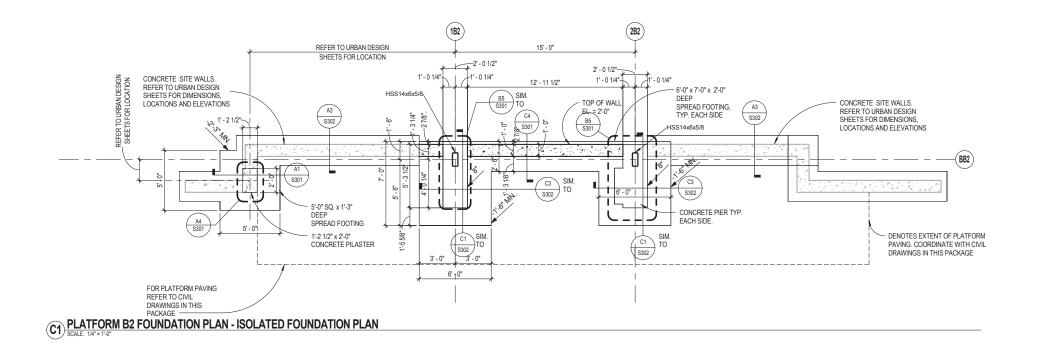
S302

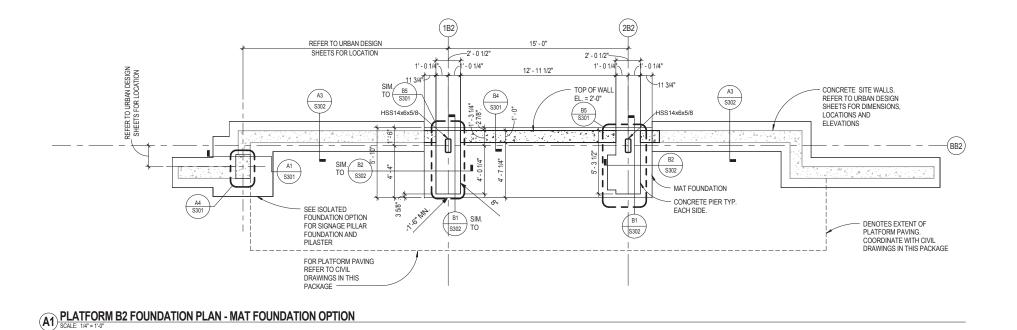
MAY BE USED AT CONTRACTORS OPTION AT EACH STATION LOCATION

5. REFER TO THE URBAN DESIGN SHEETS FOR PLATFORM ELEVATIONS

13/38

Transie to





PLATFORM B2 FOUNDATION PLANS S105

FOUNDATION PLAN NOTES:

LOCATION

1. FOR STRUCTURAL GENERAL NOTES - SEE SHEETS S001 (8/38) AND S002 (9/38).

2. INDICATES EL. FROM PLATFORM ELEVATION

3. FOR OVER EXCAVATION INFORMATION REFER TO DETAIL AT

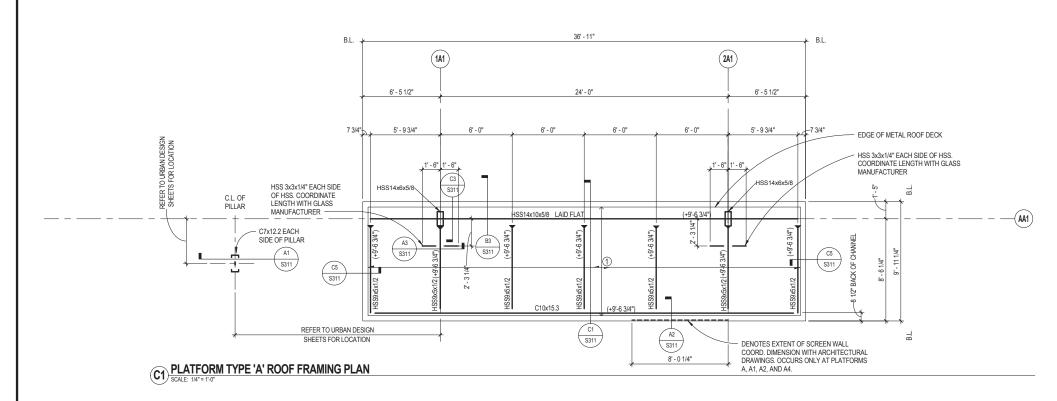
5. REFER TO THE URBAN DESIGN SHEETS FOR PLATFORM ELEVATIONS

MAT FOUNDATION OR ISOLATED FOUNDATION
 MAY BE USED AT CONTRACTORS OPTION AT EACH STATION



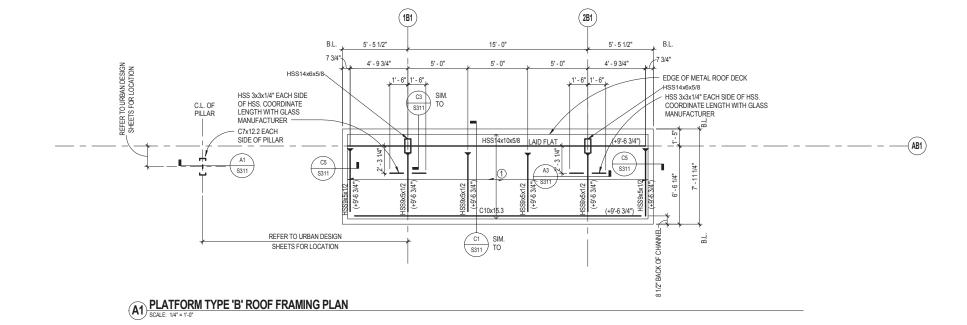






ROOF FRAMING PLAN NOTES:

- 1. FOR STRUCTURAL GENERAL NOTES SEE SHEETS S001 (8/38) AND S002 (9/38).
- 2. (+9'-6 3/4") INDICATES TOP OF STEEL EL. FROM PLATFORM LEVEL
- 3. ► INDICATES MOMENT CONNECTION SEE C1 C3
 S311 S31
- 4. 1 INDICATES 1 1/2" METAL ROOF DECK
- 5. OPEN ENDS OF HSS MEMBERS SHALL HAVE 1/4" WELDED CAP PLATES TYPICAL
- 6. ALL STEEL MEMBERS SHALL BE GALVANIZED







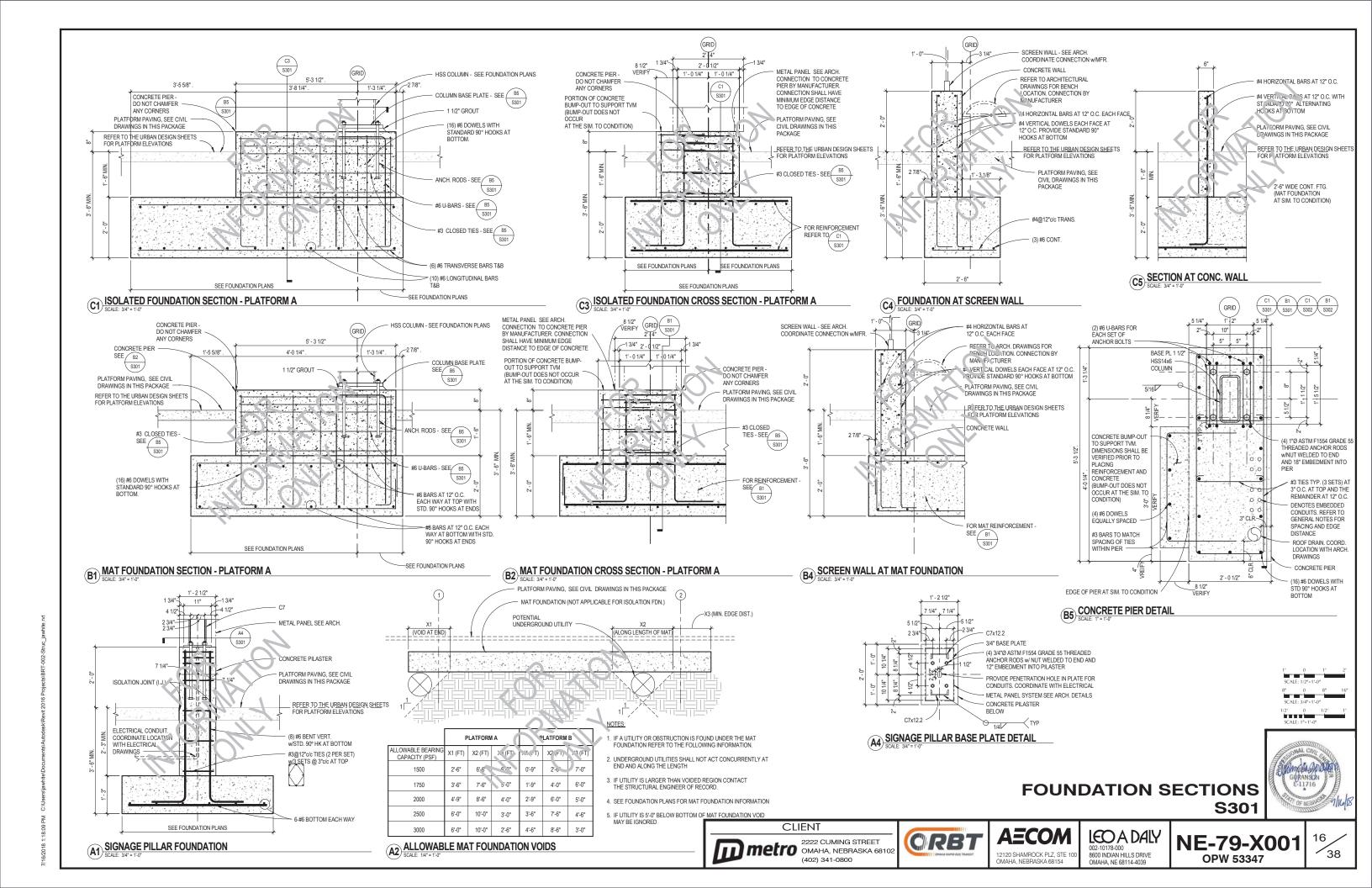


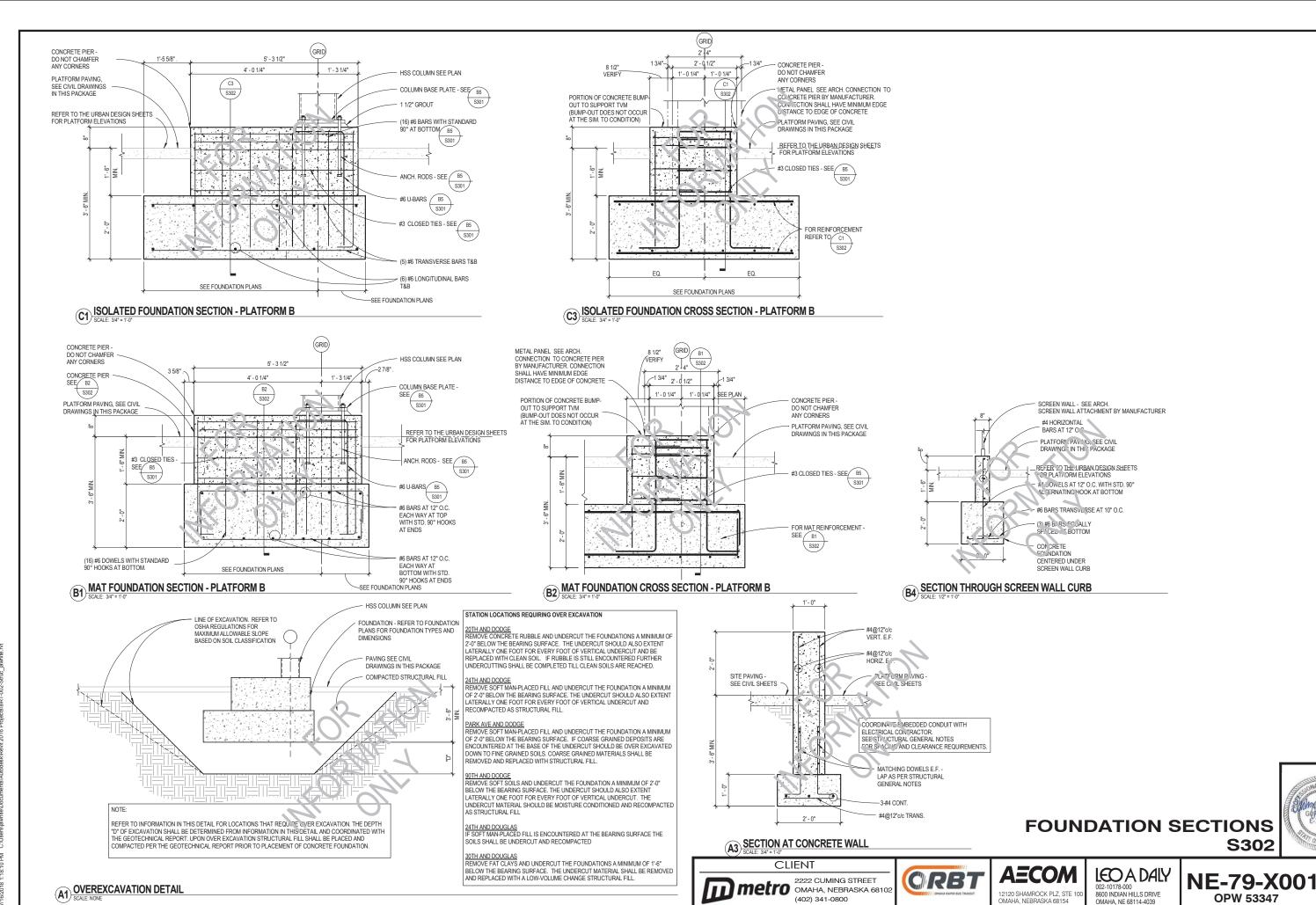












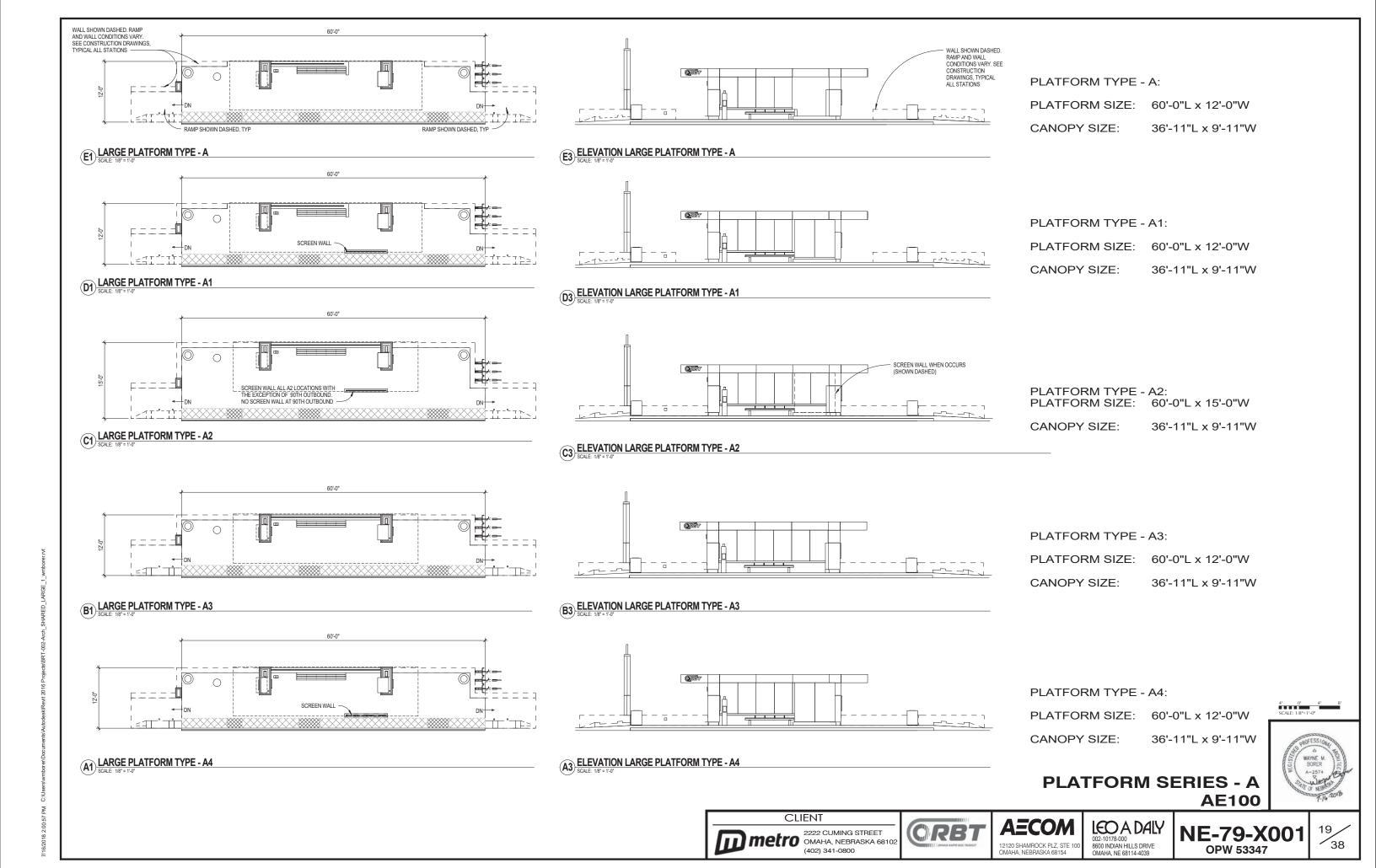
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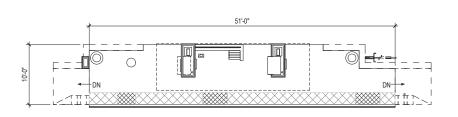
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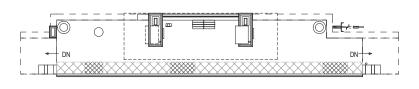
12120 SHAMROCK PLZ, STE 100 OMAHA, NEBRASKA 68154

8600 INDIAN HILLS DRIVE OMAHA, NE 68114-4039

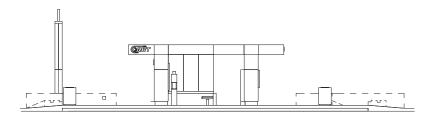




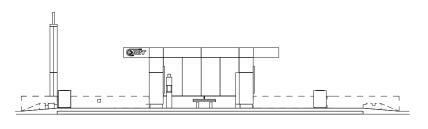
SMALL PLATFORM TYPE - B
SCALE: 1/8" = 1'-0"



C1 SMALL PLATFORM TYPE - B2 SCALE: 1/8" = 1'-0"



E3) ELEVATION SMALL PLATFORM TYPE - B



C3) ELEVATION SMALL PLATFORM TYPE - B2

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

PLATFORM TYPE - B: PLATFORM SIZE: 51'-0"L x 10'-0"W

CANOPY SIZE: 25'-11"L x 7'-11"W

PLATFORM TYPE - B2:

PLATFORM SIZE: 51'-0"L x 10'-0"W

25'-11L x 7'-11"W CANOPY SIZE:

PLATFORM SERIES - B AE100.1







NE-79-X001 OPW 53347





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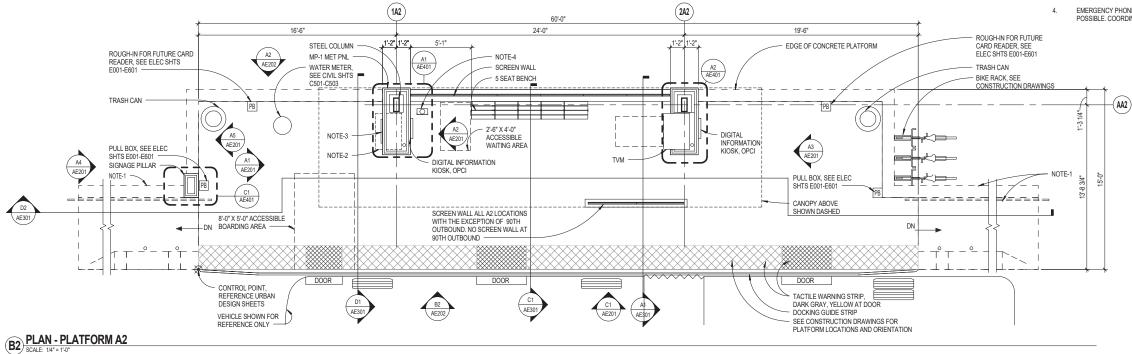
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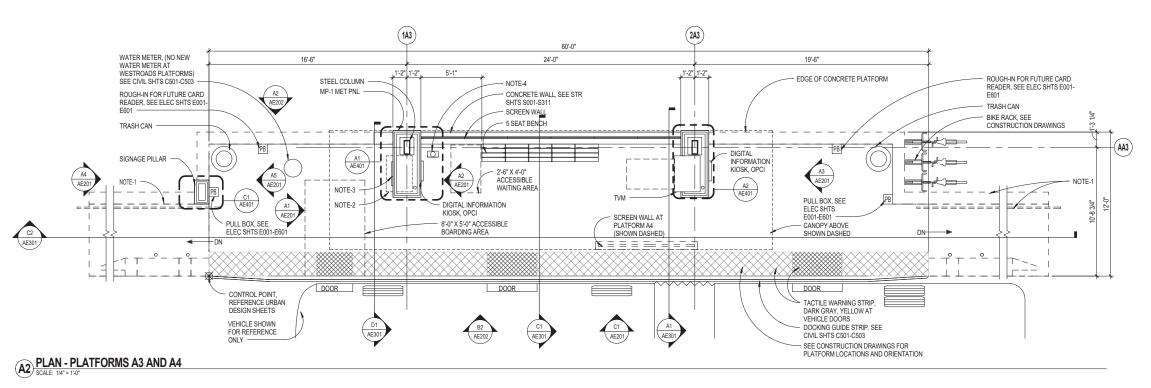
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8600 INDIAN HILLS DRIVE OMAHA, NE 68114-4039

SHEET NOTES:

- CONCRETE WALL, RAMP, BOLLARD AND HANDRAIL WHEN OCCURS (SHOWN DASHED). LAYOUTS VARY. SEE CONSTRUCTION DRAWINGS, TYP ALL LOCATIONS.
- INSTALL TVM OPCI AT LEFT COLUMN AT THE 72ND
 STREET PLATFORMS. PROVIDE ELECTRICAL ROUGHN
 FOR FUTURE TVM OTHER LOCATIONS. FUTURE TVM NIC.
 SEE ELECTRICAL SUPERISE FOR LEGAL
 - DIGITAL SLOT SIGN OPCI CENTERED ABOVE TVM OR FUTURE TVM WHERE OCCURS.
 - EMERGENCY PHONE. LOCATE AS CLOSE TO WALL AS POSSIBLE. COORDINATE WITH PHONE MANUFACTURER.





PLATFORM A2, A3 AND A4 PLANS AE102







002-10178-000 8600 INDIAN HILLS DRIVE OMAHA, NE 68114-4039

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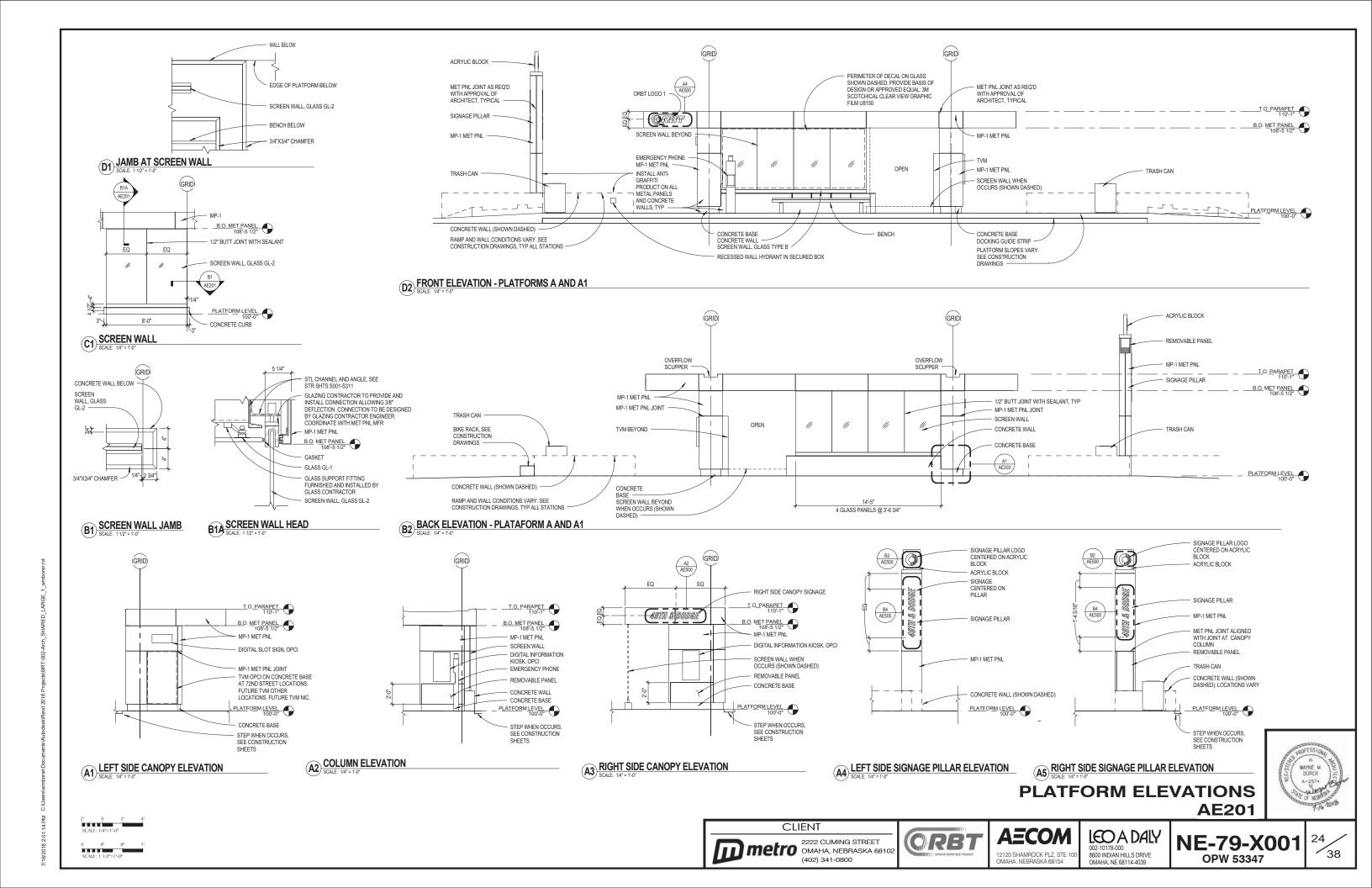
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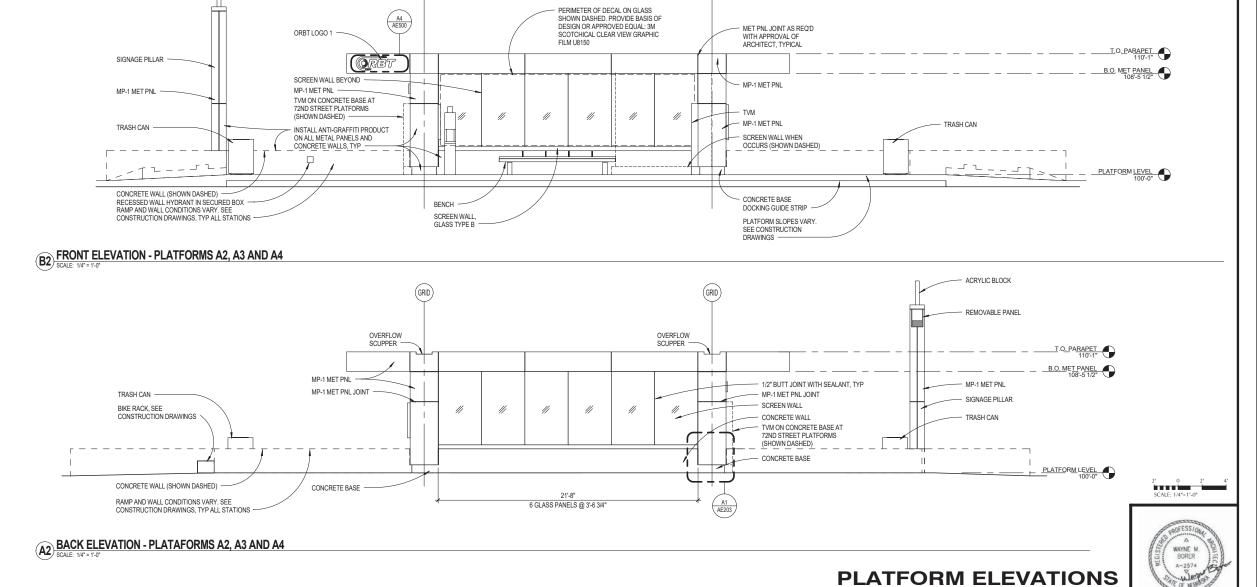
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12120 SHAMROCK PLZ, STE 100 OMAHA, NEBRASKA 68154

8600 INDIAN HILLS DRIVE OMAHA, NE 68114-4039





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25/38

AECOM

12120 SHAMROCK PLZ, STE 100 OMAHA, NEBRASKA 68154

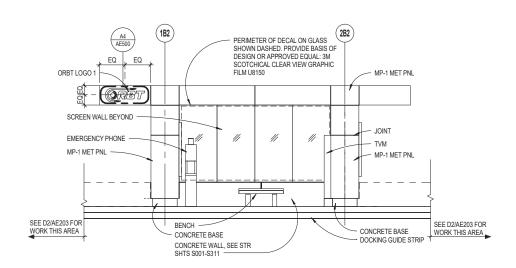
CRBT

LEO A DALY

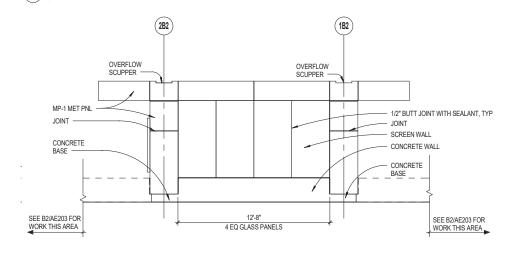
8600 INDIAN HILLS DRIVE OMAHA, NE 68114-4039

GRID

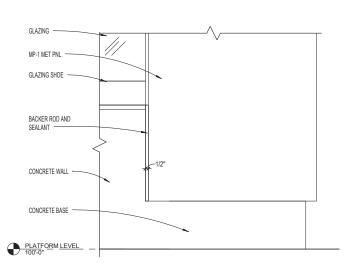
ACRYLIC BLOCK



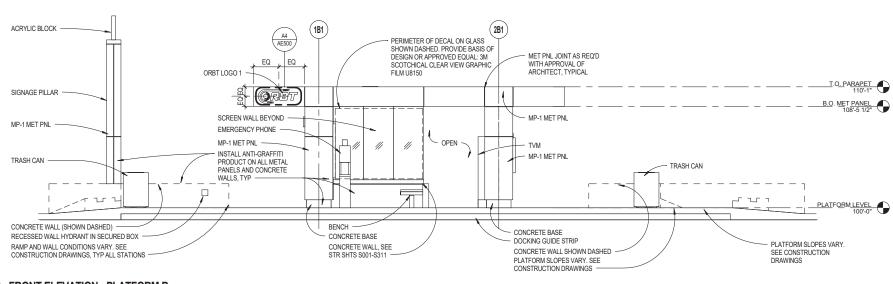
PRONT ELEVATION - PLATFORM B2 SCALE: 1/4" = 1'-0"



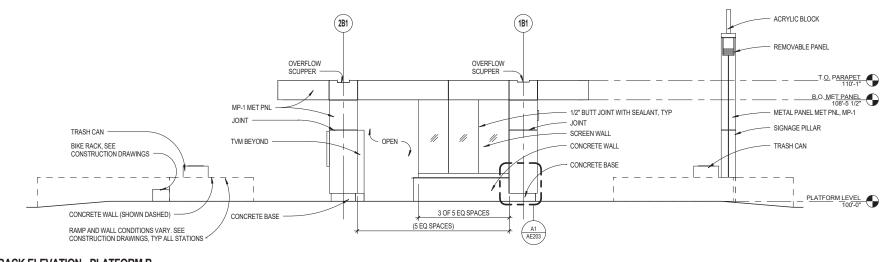
B1 BACK ELEVATION - PLATFORM B2 SCALE: 1/4" = 1'-0"



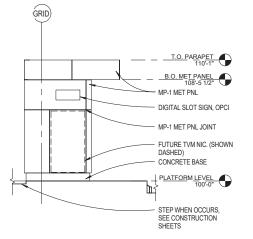
A1 BACK ELEVATION - DETAIL
SCALE: 1 1/2" = 1'-0"



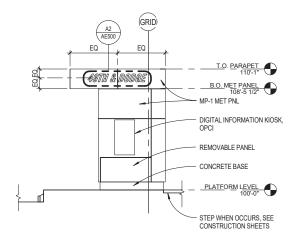
D2) FRONT ELEVATION - PLATFORM B
SCALE: 114" = 11:0"



B2 BACK ELEVATION - PLATFORM B







A3 RIGHT SIDE CANOPY ELEVATION PLATFORMS B AND B2









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PLATFORM ELEVATIONS



OPW 53347

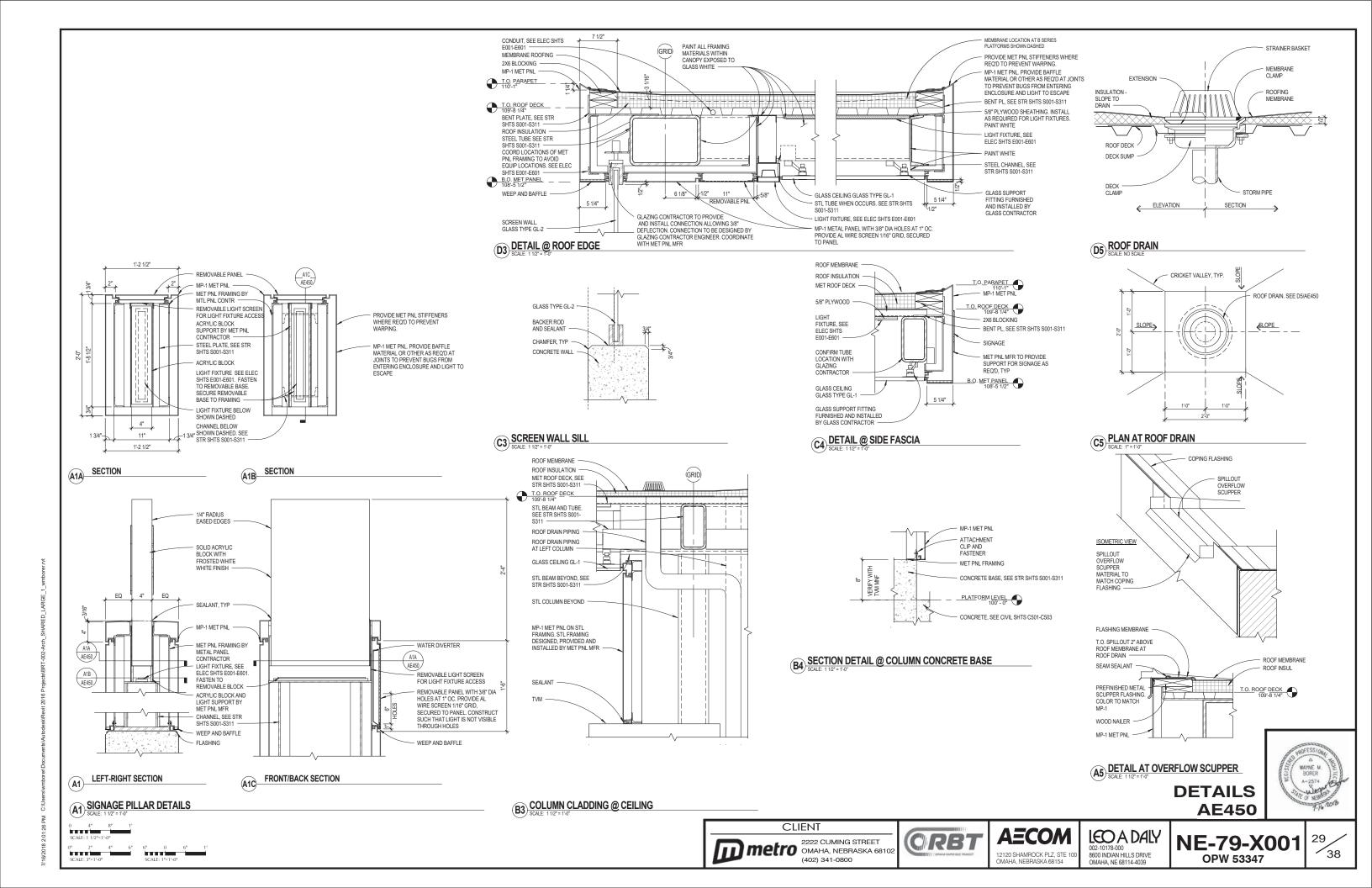
metro 2222 CUMING STREET OMAHA, NEBRASKA 68102 (402) 341-0800

NE-79-X001

OPW 53347

12120 SHAMROCK PLZ, STE 100 OMAHA, NEBRASKA 68154

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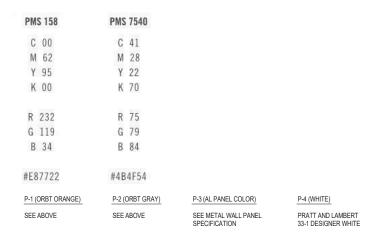




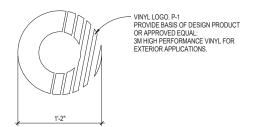
LEO A DALY 8600 INDIAN HILLS DRIVE OMAHA, NE 68114-4039

NE-79-X001 OPW 53347





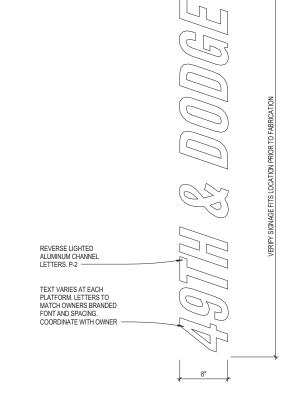
C2) COLOR SCHEDULE
SCALE: 1 1/2" = 1'-0"



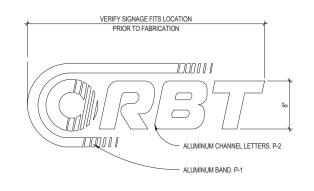
B2 SIGNAGE PILLAR LOGO
SCALE: 1 1/2" = 1'-0"

ALUMINUM CHANNEL LETTERS. P-2. TEXT VARIES AT EACH PLATFORM. LETTERS TO MATCH OWNERS BRANDED FONT AND SPACING. COORDINATE WITH OWNER -VERIFY SIGNAGE FITS LOCATION PRIOR TO FABRICATION

RIGHT SIDE CANOPY SIGNAGE
SCALE: 11/2" = 11-0"



B4) LEFT SIDE PILLAR SIGNAGE SCALE: 1 1/2" = 1'-0"



FRONT CANOPY LOGO
SCALE: 1 1/2" = 1'-0"

SIGNAGE AE500



AECOM 12120 SHAMROCK PLZ, STE 100 OMAHA, NEBRASKA 68154

	FI FORMAL DATE OF		
	ELECTRICAL SYMBOLS		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
\Rightarrow	DUPLEX RECEPTACLE 125V	A ANL	DOWNLIGHT - LETTER INDICATES FIXTURE TYPE. SOLID SHADING INDICATES
Ю	SPECIAL RECEPTACLE AS NOTED	- ONL	FIXTURE IS ON EMERGENCY. 'NL' INDICATES UNSWITCHED NIGHT LIGHT
	DOUBLE DUPLEX RECEPTACLE 125V	(A)	DIRECTIONAL DOWNLIGHT (WALLWASHER / ACCENT) - LETTER INDICATES FIXTURE TYPE
\Rightarrow	DUPLEX RECEPTACLE - ONE SIDE SWITCHED	A	SQUARE DOWNLIGHT - LETTER INDICATES FIXTURE TYPE
—	DUPLEX RECEPTACLE - EMERGENCY BRANCH	↑ A	
-	DUPLEX RECEPTACLE - COMBINATION	₩	DECORATIVE FIXTURE - LETTER INDICATES FIXTURE TYPE
⊕ c	CEILING DUPLEX RECEPTACLE		
0	FLOOR DUPLEX RECEPTACLE		RECESSED TROFFER (2X4, 1X4, 2X2) - LETTER INDICATES FIXTURE TYPE. SHADING INDICATES FIXTURE IS ON EMERGENCY
	MULTI-OUTLET ASSEMBLY	A	ON BING HUBOTIES I WIGHE IS ON EMERGENOT
Ю	JUNCTION BOX WALL	⊢ A →	STRIP OR INDUSTRIAL FIXTURE - LETTER INDICATES FIXTURE TYPE
① _C	JUNCTION BOX CEILING	HA)	WALL MOUNT FIXTURE - LETTER INDICATES FIXTURE TYPE
H©	WALL CLOCK OUTLET	HA)>	ADJUSTABLE WALL MOUNT FIXTURE - LETTER INDICATES FIXTURE TYPE
Ю́н	WALL CLOCK HANGER OUTLET	A	LINEAR WALL MOUNT FIXTURE - LETTER INDICATES FIXTURE TYPE
	LIGHTING & APPLIANCE PANELBOARD	A	LINEAR FIXTURE - LETTER INDICATES FIXTURE TYPE
	TELEPHONE CABINET		LINEAR PENDANT FIXTURE - LETTER INDICATES FIXTURE TYPE
7///2	DISTRIBUTION PANELBOARD	A	UNDERCABINET FIXTURE - LETTER INDICATES FIXTURE TYPE
Т	TRANSFORMER - VOLTAGE AS INDICATED	A	COVE FIXTURE - LETTER INDICATES FIXTURE TYPE
PB	PULL BOX - SIZE AS INDICATED	\$	SINGLE POLE SWITCH
ATS	AUTOMATIC TRANSFER SWITCH	\$2	DOUBLE POLE SWITCH
SPD	SURGE PROTECTION DEVICE	\$3	3-WAY SWITCH
VFD	VARIABLE FREQUENCY DRIVE	\$4	4-WAY SWITCH
(M)	MOTOR	\$ _D	DIMMER SWITCH
\$ _{TE}	SINGLE PHASE MANUAL MOTOR STARTER	\$ _{MC}	MOMENTARY CONTACT SWITCH
8	MOTOR CONTROL PUSHBUTTON STATION	PC	PHOTOCELL
마	DISCONNECT SWITCH NON-FUSED UNLESS OTHERWISE NOTED	TC	TIME SWITCH
	MAGNETIC STARTER	\$ _{OC} OC3	OCCUPANCY SENSOR - SEE OCCUPANCY SENSOR SCHEDULE
₩	COMBINATION MAGNETIC STARTER WITH FUSED DISCONNECT UNLESS OTHERWISE NOTED	1 NL	SUBSCRIPT "NL" ADDED TO LIGHTING FIXTURE INDICATES UNSWITCHED NIGHT LIGHT
Ā	AMBER STROBE LIGHT	С	SUBSCRIPT "C" ADDED TO ANY SYMBOL INDICATES CEILING MOUNTED
K	KEYED TEST SWITCH	E	SUBSCRIPT "E" ADDED TO ANY SYMBOL INDICATES EMERGENCY
	BRANCH CIRCUIT: 2 WIRES PLUS GROUND UNLESS OTHERWISE NOTED	F	SUBSCRIPT "F" ADDED TO ANY SYMBOL INDICATES FLUSH FLOOR INSTALLATION
	HOME RUN TO PANEL - NO. OF CIRCUITS INDICATED BY NO. OF ARROWS	К	SUBSCRIPT "K" ADDED TO ANY SYMBOL INDICATES KEY OPERATED
•	CIRCUIT DOWN	Р	SUBSCRIPT "P" ADDED TO ANY SYMBOL INDICATES PILOT LIGHT
	CIRCUIT UP	т т	SUBSCRIPT "T" ADDED TO ANY SYMBOL INDICATES TAMPER-RESISTANT
\(\sigma\) XD	TELECOMMUNICATIONS OUTLET. "X" INDICATES QUANTITY OF DATA JACKS TO BE PROVIDED	· ·	
△ XA\XD	VOICE/DATA OUTLET, "X" INDICATES QUANTITY OF DATA AND/OR VOICE JACKS TO BE PROVIDED	EX	SUBSCRIPT "EX" ADDED TO ANY SYMBOL INDICATES EXPLOSION, PROOF OF CLASS GROUP AND DIVISION AS NOTED
▼ W	WALL PHONE OUTLET		CURCODID THAN ADDED TO ANY OVARDOL INDICATED THAT IS CONSIDERED TO FIRE
\textstyle	CEILING MOUNTED OUTLET	FA	SUBSCRIPT "FA" ADDED TO ANY SYMBOL INDICATES UNIT IS CONNECTED TO FIRE ALARM SYSTEM
	FLOOR MOUNTED OUTLET	FP	SUBSCRIPT "FP" ADDED TO ANY SYMBOL INDICATES PEDESTAL MOUNTED
DS	SECURITY DOOR SWITCH	IG	SUBSCRIPT "IG" ADDED TO ANY SYMBOL INDICATES ISOLATED GROUND RECEPTACLE
CR	CARD READER	RT	SUBSCRIPT "RT" ADDED TO ANY SYMBOL INDICATES RAINTIGHT. NEMA TYPE 3 OR EQUIVALENT
KP	KEY PAD		
MS	MOTION SENSOR	SP	SUBSCRIPT "SP" ADDED TO ANY SYMBOL INDICATES SURGE, PROTECTED TYPE RECEPTACLE - SINEWAVE TRACKING (UL1449)
	CCTV CAMERA		SUBSCRIPT "WP" ADDED TO ANY SYMBOL INDICATES WEATHERPROOF, WHILE-IN-
\$	CEILING SPEAKER	WP	SUBSCRIPT "WP" ADDED TO ANY SYMBOL INDICATES WEATHERPROOF, WHILE-IN- USE NEMA TYPE 4 OR EQUIVALENT
H\$	WALL SPEAKER	GFI	SUBSCRIPT "GFI" ADDED TO ANY SYMBOL INDICATES GROUND FAULT INTERRUPTER
HM)	WALL MICROPHONE OUTLET	K	WALL INTERCOM OUTLET
H	WALL TELEVISION OUTLET	+-'-	CABLE TRAY - TYPE/SIZE AS INDICATED ON PLANS
HW HW	WALL VOLUME CONTROL	•	PUSHBUTTON
	WALL VOLUME OUNTROL		FUSHBUTTUN

1		ONE-LINE SYMBOL LEGEND
7	G	ENGINE GENERATOR SET
	CT'S 🗧	CURRENT TRANSFORMERS
	PT'S ⊰⊱	POTENTIAL TRANSFORMERS
	AS-A	AMMETER AND PHASE SELECTOR SWITCH
	VS-V	VOLTMETER AND PHASE SELECTOR SWITCH
\downarrow	*>	DRAW OUT CIRCUIT BREAKER
	>	MOLDED CASE CIRCUIT BREAKER (MCCB) 3P. EXCEPT AS NOTED "ST" AT BREAKER SYMBOL INDICATES SHUNT TRIP
+	M	MOTOR - HORSEPOWER AS INDICATED
		3 POLE COMBINATION CIRCUIT BREAKER AND MOTOR STARTER #INDICATES NEMA STARTER SIZE
+		FUSES
1		DRY-TYPE TRANSFORMER, UNLESS OTHERWISE NOTED
		BRANCH CIRCUIT PANELBOARD
	DM	DIGITAL METER
1		DISCONNECT SWITCH - NON FUSED, UNLESS OTHERWISE NOTED
+	K	KIRK KEY INTERLOCK
	PWCP	PRE-WIRED CONTROL PANEL
+	SPD	SURGE PROTECTION DEVICE
	#	FEEDER NUMBER - 3 WIRE
	#	FEEDER NUMBER - 4 WIRE
4		

ELECTRICAL SYMBOL LEGEND NOTES

- ALL MOUNTING DIMENSIONS GIVEN ARE TO THE CENTERLINE (CL) OF THE DEVICE ABOVE FINISHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG) LINI ESS OTHERWISE NOTED
- WALL MOUNTED LIGHTING FIXTURES SHALL BE MOUNTED AS INDICATED

ELECTRICAL GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE APPLICABLE EDITIONS OF THE NATIONAL ELECTRICAL CODE, THE STATE BUILDING CODE, AND ANY OTHER LOCAL, STATE, OR FEDERAL CODES, ORDINANCES, OR AUTHORITATIVE INTERPRETATIONS THAT MAY APPLY, A CERTIFICATE OF FINAL ELECTRICAL INSPECTION SHALL BE OBTAINED BY THE CONTRACTOR AT THE COMPLETION OF THE WORK AND PRESENTED TO BOTH THE OWNER AND THE A/E.
- THE CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE AND SATISFACTORILY OPERATING SYSTEMS AS INDICATED ON THE CONTRACT DOCUMENTS. IT IS NOTED THAT THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENTS OF SYSTEMS AND WORK. CIRCUIT NUMBERS, INTERCONNECTIONS, HOME RUNS, AND SWITCH LEGS HAVE BEEN SHOWN, AND THE CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT AND WIRING AS REQUIRED TO ACCOMPLISH THE FUNCTIONS INDICATED. SPECIAL SYSTEMS DEVICES
 (COMMUNICATIONS, SECURITY, ETC.) HAVE BEEN SHOWN AND THE CONTRACTOR SHALL FURNISH AND INSTALL THE REQUIRED QUANTITIES AND TYPES OF CABLES, CONDUCTORS, RACEWAYS, REMOTE POWER SUPPLIES AND CONNECTIONS, SHIELDING REQUIREMENTS, ETC., AS REQUIRED BY THE SYSTEM MANUFACTURER, THE SPECIFICATIONS, AND ANY APPLICABLE CODES.
- THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL WORK WITH THE WORK OF ALL OTHER TRADES SO AS TO AVOID CONFLICTS. RESOLVE ALL CONFLICTS THROUGH THE AVE PRIOR TO ROUGH-IN. FAILURE TO PROVIDE SUCH COORDINATION PRIOR TO WORK BEING INSTALLED SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR, AND MAY RESULT IN REJECTION OF THE WORK, IT IS THE CONTRACTORS' RESPONSIBILITY TO COORDINATE SUBSTITUTIONS WITH OTHER TRADES.
- ALL MATERIALS SHALL BE NEW, SHALL BE SUITABLE FOR THE APPLICATION INTENDED, AND SHALL BEAR LABELS OR MARKINGS INDICATING THIRD PARTY TESTING LABORATORY LISTINGS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION UNLESS OTHERWISE NOTED.
- VERIFY LOCATIONS OF LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS AND THE PLANS
- ALL WIRING FOR POWER AND LIGHTING SYSTEMS SHALL BE INSTALLED IN METALLIC RACEWAY SYSTEMS UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE COPPER, SHALL BE #12AWG MINIMUM, AND SHALL HAVE 600V TYPE THHN/THWN INSULATION, UNLESS OTHERWISE NOTED. ALL RACEWAYS AND CIRCUITS SHALL INCLUDE INSULATED GROUND CONDUCTORS SIZED AS INDICATED OR AS REQUIRED BY THE NEC. MINIMUM RACEWAY SIZE
- SHALL BE 34" UNLESS OTHERWISE NOTED.
 RACEWAYS SHALL NOT CONTAIN MORE THAN THREE PHASE CONDUCTORS, THREE NEUTRALS, AND ONE GROUND CONDUCTOR, UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE SEPARATE NEUTRALS FOR ALL 20A/1P CIRCUIT BREAKERS. PROVIDING MULTI-POLE CIRCUIT BREAKERS IN CONJUNCTION WITH SHARED NEUTRALS IN A MULTI-WIRE CIRCUIT IN ACCORDANCE WITH NEC 210.4 SHALL BE APPROVED BY THE ENGINEER
- ALL CONNECTIONS FOR ELECTRICALLY POWERED EQUIPMENT, INCLUDING BUT NOT LIMITED TO MECHANICAL AND OWNER SUPPLIED EQUIPMENT, SHALL BE FURNISHED AND INSTALLED. WHERE NOT INDICATED AS BEING PROVIDED WITH THE FOUIPMENT, ALL REQUIRED DISCONNECTING MEANS SHALL BE FURNISHED AND INSTALLED AS A PART OF THE ELECTRICAL WORK. COORDINATE LOCATIONS OF DISCONNECTING AND CONTROLLING MEANS WITH EQUIPMENT TO MAINTAIN CODE AND INSTALLATION REQUIREMENTS. DEDICATED WORKING SPACE FOR MOTOR CONTROLLERS AND SAFETY SWITCHES SHALL BE PER NEC 110.26 REQUIREMENTS.
- PROVIDE PULL AND JUNCTION BOXES AS REQUIRED TO MEET CODE AND INSTALLATION REQUIREMENTS. PULL AND JUNCTION BOXES SHALL BE CONCEALED IN FINISHED SPACES AND LOCATIONS SHALL BE COORDINATED. WITH THE WORK OF ALL OTHER TRADES SO AS TO AVOID CONFLICTS.
- ALL CONDUCTORS SHALL BE IDENTIFIED AT EACH JUNCTION BOX, OUTLET BOX, CABINET, PULL BOX, ETC., WITH VINYL SELF-ADHESIVE TAGS INDICATING PANEL AND CIRCUIT NUMBER. CONTROL WIRE IDENTIFICATION NUMBER. OR OTHER APPROPRIATE INFORMATION. ALL PULL AND JUNCTION BOXES SHALL BE LABELED AS TO FUNCTION.
 ALL EQUIPMENT SHALL BE SECURELY FASTENED BY MEANS OF ANCHORS, RODS, HANGERS, SUPPORTS, GUIDES,
- SWAY BRACES, ETC., TO MAINTAIN ALIGNMENT AND PREVENT FOUIPMENT MOVEMENT.
- ALL PENETRATIONS OF FIRE OR SMOKE RATED CONSTRUCTION SHALL BE SEALED WITH FIRESTOPPING MATERIALS APPROVED AND LISTED FOR THE RATING OF THE CONSTRUCTION TO BE PENETRATED. PROVIDE DOCUMENTATION ON ALL SUCH PENETRATION SEALING SYSTEMS FOR VERIFICATION OF PROPER INSTALLATION. ALL PENETRATIONS OF ROOFS, EXTERIOR WALLS, FOUNDATIONS, OR OTHER WATER OR MOISTURE PROOF CONSTRUCTION SHALL BE SEALED WITH APPROPRIATE SEALING FITTINGS OR SEALED CONSTRUCTION TO
- PREVENT THE INTRODUCTION OF MOISTURE.
 WHERE EMPTY RACEWAYS ARE INSTALLED, THEY SHALL BE LABELED AT BOTH ENDS AND FITTED WITH NYLON
- PULLSTRINGS FOR FUTURE USE. TO PREVENT PERSONNEL INJURY AND POTENTIAL SYSTEM FAILURE, ELECTRICAL WORK SHALL BE PERFORMED ON DE-ENERGIZED SYSTEMS ONLY. WHERE WORK ON EXISTING SYSTEMS WILL REQUIRE INTERRUPTION OF FLECTRICAL SERVICE THEN TEMPORARY PROVISIONS ACCEPTABLE TO THE OWNER FOR TEMPORARY POWER SHALL BE UTILIZED UNTIL THE WORK IS COMPLETE. PROVIDE ARC FLASH LABELS FOR ALL SWITCHBOARDS,
- PANELBOARDS, AND MOTOR CONTROL CENTERS. WHERE 20A, 120V LIGHTING AND POWER CIRCUIT LENGTHS EXCEED 100 FEET, PROVIDE #10 PHASE AND NEUTRAL
- CONDUCTORS WITH #10 GND IN MIN. 3/4" CONDUIT.

 IF THE CONTRACTOR SUBSTITUTES EQUIPMENT WITH DIFFERENT CHARACTERISTICS THAN WHAT IS SPECIFIED, INCLUDING ELECTRICAL CHARACTERISTICS, IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE THESE DIFFERENCES WITH OTHER TRADES.

 DEVICE BOXES SHALL BE MOUNTED FLUSH IN WALLS UNLESS OTHERWISE NOTED OR REQUIRED. FLUSH SHALL
- BE DEFINED AS EVEN WITH THE FACE OF THE WALL, OR RECESSED NO MORE THAN 1/16". JEOXES INSTALLED WITH PLASTER RINGS TO BE FLUSH WITH WALL. EXAMPLE: WALLS WITH 5/8" THICK SHEET ROCK REQUIRES 3/4" PLASTER RING. PROVIDE PLASTER RINGS AS REQUIRED FOR VARYING WALL THICKNESS COVERINGS. J-BOXES TO BE SUPPORTED WITH STUD-TO-STUD BACK BOX BRACING.
- WALL BOXES FOR SINGLE AND TWO-GANG SWITCHES, CONVENIENCE OUTLETS, SHALL BE 4" SQUARE TELECOMMUNICATION OR DATA WALL BOXES SHALL BE 4-11/16" SQUARE BY 2-1/8" DEEP. WALLS WITH 5/8 THICK SHEET ROCK REQUIRE 3/4" PLASTER RING. PROVIDE SINGLE OR DOUBLE GANG PLASTER RINGS OF CORRECT DEPTH FOR WALL CONSTRUCTION FOR VARYING WALL THICKNESS COVERINGS. J-BOXES TO BE SUPPORTED WITH STUD-TO-STUD BACK BOX BRACING. SECTIONAL OR MULTI-GANG BOXES WITH APPROPRIATE PLASTER RINGS SHALL BE USED FOR MULTI-GANG APPLICATIONS.





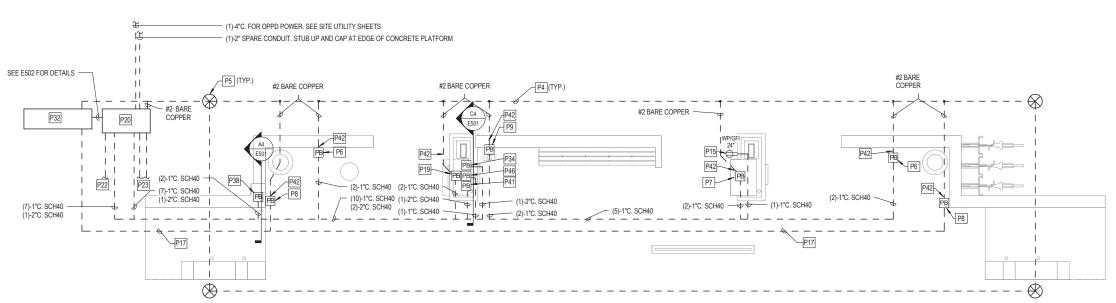




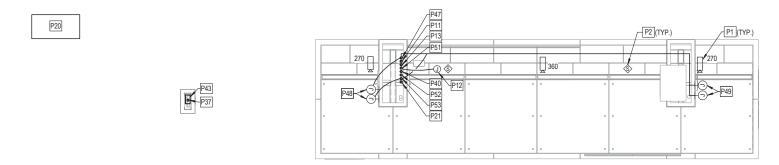




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POWER & SYSTEMS PLAN TYPE A - LARGE (OTHERS SIMILAR)



POWER & SYSTEMS CEILING PLAN TYPE A - LARGE (OTHERS SIMILAR)

GENERAL NOTES

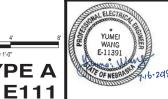
- CCTV CAMERAS WILL BE FURNISHED BY OTHERS AND INSTALLED BY THE CONTRACTOR ALL CONDUITS SHALL BE ROUTED BACK TO THE POWER AND COMMUNICATIONS CABINET. SEE SITE INFRASTRUCTURE PLANS (BY OTHERS) FOR EXACT LOCATION. MAINTAIN A MINIMUM OF 6" SPACING BETWEEN DATA AND POWER CONDUITS.
- CONDUIT SHALL NOT BE ROUTED IN SNOW MELT AREA AND SHALL BE ROUTED NOT LESS THAN 6" BELOW SNOW MELT SYSTEM WHERE NEEDED. COORDINATE EXACT DEPTH IN FIELD.
- NUMBER OF CONDUITS SHOWN FOR REFERENCE ONLY. MULTIPLE BRANCH CIRCUITS IN ONE CONDUIT ARE ALLOWED. FIELD COORDINATE REQUIRED QUANTITY TO COMPLY WITH NEC REQUIREMENTS. INTERFACE BETWEEN CANOPY PULLBOXES AND PLATFORM CONDUITS SHALL BE COORDINATED IN FIELD WITH OTHER TRADES.
- ALL CABLING IN CANOPY SHALL BE ROUTED IN CONDUIT. COORDINATE EXACT LOCATIONS OF CONDUIT IN FIELD. MAINTAIN A
- MINIMUM OF 6" SPACING BETWEEN DATA AND POWER CONDUITS.
 CONTRACTOR SHALL COORDINATE IN FIELD FOR EXACT REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT
- ALL POWER AND COMMUNICATIONS CABLES SHALL BE EXTERIOR RATED.
- SEE PANEL SCHEDULES ON SHEET E601 FOR HOME RUN AND CIRCUITING INFORMATION.

 CAT. 6 CABLES SHALL BE CONTINUOUS FROM THE PATCH PANEL IN THE PCC TO ALL DEVICES AND OUTLETS. COIL ENOUGH CABLING IN PULLBOXES WHERE FUTURE CONNECTIONS TO EQUIPMENT OR DEVICES ARE NEEDED.
- WHERE UNDERGROUND CONDUITS ARE ROUTED UNDER DRIVEWAYS AND TRAFFIC AREAS PROVIDE SCHEDULE 80 PVC
- CONTRACTOR SHALL COORDINATE IN FIELD WITH EXISTING UTILITY TYPE AND LOCATION IN THE STATION AREA. NEW UTILITY RUNS SHALL BE LOWERED TO AVOID CONFLICT WITH EXISTING UTILITIES. PROTECT EXISTING UTILITIES DURING CONSTRUCTION. POWER BRANCH CIRCUITS SHALL BE MINIMUM #10AWG
- ALL PULLBOXES AND PENETRATIONS THROUGH SNOW MELT AREA SHALL COMPLY WITH SNOW MELT SYSTEM REQUIREMENTS.

KEYED SHEET NOTES

- CCTV CAMERA MOUNTED ON CEILING WITH CAMERA LENS BELOW LOWEST PART OF THE CANOPY
- PAGING SPEAKER FLUSH WITH CEILING.
- GROUND RING. #2 BARE COPPER BURIED 30" BELOW GRADE. MINIMUM 2' FROM FOUNDATION
- GROUND ROD. 3/4"x10' LONG COPPER CLAD WITH COLDWELD CONNECTION.
- PULLBOX FLUSH WITH FINISHED GRADE FOR POWER AND DATA CONNECTION TO FUTURE TICKET VALIDATION MACHINE COORDINATE EXACT LOCATION IN FIELD. PROVIDE BARRIER BETWEEN DATA AND POWER CABLES.
- PULLBOX FLUSH WITH FINISHED GRADE FOR DATA AND POWER CONNECTION TO TICKET VENDING MACHINE. COORDINATE
- EXACT LOCATION IN FIELD. PROVIDE BARRIER BETWEEN DATA AND POWER CABLES.
- 12" X 24" PULLBOX FLUSH WITH FINISHED GRADE FOR FUSE BLOCK AND CONNECTORS. SEE SNOW MELT SYSTEM DESIGN FOR DETAILS. SNOW MELT SYSTEM DESIGN BY OTHERS.
- PULLBOX FLUSH WITH FINISHED GRADE FOR DATA AND POWER CONNECTION TO EMERGENCY PHONE PEDESTAL. COORDINATE EXACT LOCATION IN FIELD. SEE ARCHITECTURAL SPECIFICATIONS FOR DETAILS. PROVIDE BARRIER BETWEEN POWER AND
- DATA CABLES. (1) CAT 6 FOR VOICE AND (1) FOR CAMERA. (1)-1" CONDUIT FOR LIGHTING CIRCUITS FROM PULLBOX TO CANOPY. COORDINATE EXACT LOCATION IN FIELD. SEE C4/E501 FOR DETAILS.
- J-BOX ABOVE CEILING FOR POWER CONNECTION TO FUTURE RADIANT HEATER.
- (1)-1" CONDUIT FROM PULLBOX TO CANOPY FOR POWER TO HEAT TAPE ON ROOF DRAIN PIPING. COORDINATE EXACT LOCATION IN FIELD
- PROVIDE LOCKABLE BOX. COORDINATE EXACT LOCATION IN FIELD.
- SEE E502 FOR DETAILS.
- CONDUIT STUB AND PULLBOX FOR FUTURE TICKET VENDING MACHINE. PROVIDE BARRIER BETWEEN POWER AND DATA CABLES. COORDINATE EXACT LOCATION IN FIELD.
- POWER AND COMMUNICATIONS CABINET. SEE SHEET E501 FOR DETAIL. SEE SITE SHEETS FOR EXACT LOCATIONS FOR EACH STATION.
- (1)-2" CONDUIT FROM PULLBOX TO CANOPY FOR CAT 6 CABLES TO CCTV CAMERAS, SPEAKERS, AND DATA CONNECTION TO BUS INDICATOR. ROUTE CAT 6 CABLES BACK TO PCC.
- (1)-3" UNDERGROUND CONDUIT FOR COMMUNICATIONS CABLES TO SUBFED STATIONS (WHERE THERE ARE TWO STATIONS PAIRED TOGETHER WITH ONE PCC). SEE SITE SHEETS FOR EXACT LOCATIONS.
- (2)-3" UNDERGROUND CONDUITS FOR POWER FEEDERS TO SUBFED STATIONS (WHERE THERE ARE TWO STATIONS PAIRED TOGETHER WITH ONE PCC). SEE SHEET E114 FOR DETAILS.
- SNOW MELT SYSTEM EQUIPMENT CABINET. SEE SHEET E502 FOR DETAILS. SEE SITE DRAWINGS FOR EXACT LOCATION
- PULLBOX MOUNTED ON UNISTRUT FOR POWER CONNECTION TO LIGHTING CIRCUITS, FUTURE RADIANT HEATER, MESSAGE BOARD, DIGITAL KIOSK, DIGITAL SLOT SIGN AND HEAT TAPE FOR DRAIN PIPES IN CANOPY. SEE C4/E501 FOR DETAILS.
- (1)-1° CONDUIT FOR DATA CONNECTION FROM MESSAGE BOARD TO LIGHTING CONTROLLER. COORDINATE EXACT LOCATION IN FIELD. COORDINATE EXACT CABLE AND INTERFACE REQUIRED. SEE A4/E501.
- PULLBOX FOR POWER CONNECTION TO SIGNAGE AND LIGHTING ON SIGNAGE PILLAR. COORDINATE EXACT LOCATION AND CONNECTION IN FIELD. SEE A4/E501 FOR ROUGH IN INFORMATION.
- (1)-1" CONDUIT FROM PULLBOX TO CANOPY FOR POWER CONNECTION TO MESSENGER BOARD. SEE C4/E501 FOR DETAIL. COORDINATE EXACT LOCATION IN FIELD.
- PULLBOX MOUNTED ON UNISTRUT FOR DATA CABLES TO CCTV CAMERAS, SPEAKERS AND BUS INDICATOR. SEE C4/E501 FOR
- BOND TO EQUIPMENT. COORDINATE EXACT REQUIREMENTS IN FIELD.
- DMX POWER SUPPLY AND CONTROLLER QTRAN QOM-eLED+DMX OR APPROVED EQUAL. MOUNT VERTICALLY ON UNISTRUT BEHIND REMOVABLE PANEL FOR ACCESSIBILITY. SEE A4/E501. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD PROVIDE DATA CONNECTION TO MESSAGE BOARD, PROVIDE ALL NECESSARY COMPONENTS AND CONNECTORS FOR PROPER
- PULLBOX MOUNTED ON UNISTRUT FOR DATA AND POWER CONNECTION TO DIGITAL KIOSK, DIGITAL SLOT SIGN AND MESSAGE BOARD. SEE C4/E501 FOR DETAILS.
- (1)-1" CONDUIT FROM PULLBOX TO CANOPY FOR POWER CONNECTION TO DIGITAL SIGNAGE AND DIGITAL KIOSK. SEE C4/E501 FOR DETAIL. COORDINATE EXACT LOCATION IN FIELD.
- J-BOX FOR POWER AND DATA CONNECTION TO DIGITAL SLOT SIGN. COORDINATE EXACT LOCATION IN FIELD.
- J-BOX FOR POWER AND DATA CONNECTION TO DIGITAL KIOSK. COORDINATE EXACT LOCATION IN FIELD.
- (1)-1° CONDUIT FROM PULLBOX TO CANOPY FOR POWER CONNECTION TO FUTURE RADIANT HEATER. SEE C4/E501 FOR DETAIL COORDINATE EXACT LOCATION IN FIELD.
- (1)-1" CONDUIT FROM PULLBOX TO CANOPY FOR DATA CONNECTION TO MESSENGER BOARD. SEE C4/E501 FOR DETAIL. COORDINATE EXACT LOCATION IN FIELD.
- 1)-1" CONDUIT FROM PULLBOX TO CANOPY FOR POWER CONNECTION TO DIGITAL SIGNAGE AND DIGITAL KIOSK. SEE C4/E501 FOR DETAIL. COORDINATE EXACT LOCATION IN FIELD.





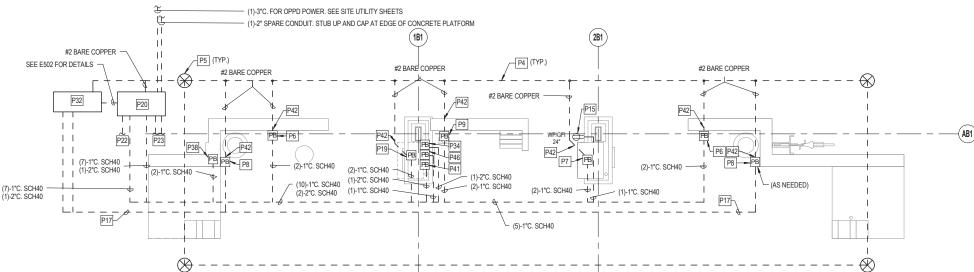




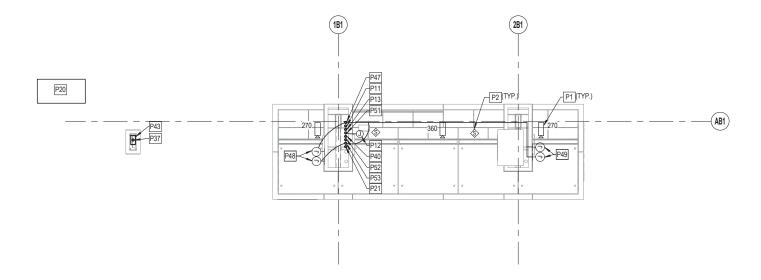


8600 INDIAN HILLS DRIVE OMAHA, NE 68114-4039





(C1) POWER & SYSTEMS PLAN TYPE B - SMALL (OTHERS SIMILAR)



(A1) POWER & SYSTEMS CEILING PLAN TYPE B - SMALL (OTHERS SIMILAR)

2222 CUMING STREET III MELTO OMAHA, NEBRASKA 68102 (402) 341-0800





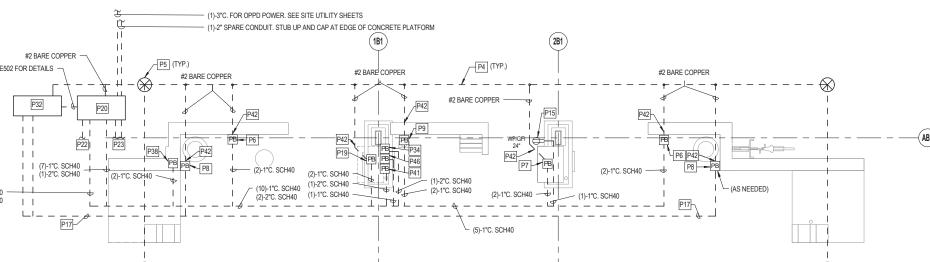


POWER & SYSTEMS PLAN TYPE B

NE-79-X001 **OPW 53347**

E112





- ALL POWER AND COMMUNICATIONS CABLES SHALL BE EXTERIOR RATED.

 SEE PANEL SCHEDULES ON SHEET E601 FOR HOME RUN AND CIRCUITING INFORMATION.

 CAT. 6 CABLES SHALL BE CONTINUOUS FROM THE PATCH PANEL IN THE PCC TO ALL DEVICES AND OUTLETS. COIL ENOUGH CABLING IN PULLBOXES WHERE FUTURE CONNECTIONS TO EQUIPMENT OR DEVICES ARE NEEDED.
 WHERE UNDERGROUND CONDUITS ARE ROUTED UNDER DRIVEWAYS AND TRAFFIC AREAS PROVIDE SCHEDULE 80 PVC
- CONTRACTOR SHALL COORDINATE IN FIELD WITH EXISTING UTILITY TYPE AND LOCATION IN THE STATION AREA. NEW UTILITY RUNS SHALL BE LOWERED TO AVOID CONFLICT WITH EXISTING UTILITIES. PROTECT EXISTING UTILITIES DURING CONSTRUCTION.

CCTV CAMERAS WILL BE FURNISHED BY OTHERS AND INSTALLED BY THE CONTRACTOR ALL CONDUITS SHALL BE ROUTED BACK TO THE POWER AND COMMUNICATIONS CABINET. SEE SITE INFRASTRUCTURE PLANS (BY OTHERS) FOR EXACT LOCATION. MAINTAIN A MINIMUM OF 6" SPACING BETWEEN DATA AND POWER CONDUITS. CONDUIT SHALL NOT BE ROUTED IN SNOW MELT AREA AND SHALL BE ROUTED NOT LESS THAN 6" BELOW SNOW MELT SYSTEM WHERE NEEDED. COORDINATE EXACT DEPTH IN FIELD. NUMBER OF CONDUITS SHOWN FOR REFERENCE ONLY. MULTIPLE BRANCH CIRCUITS IN ONE CONDUIT ARE ALLOWED, FIELD COORDINATE REQUIRED QUANTITY TO COMPLY WITH NEC REQUIREMENTS. INTERFACE BETWEEN CANOPY PULLBOXES AND PLATFORM CONDUITS SHALL BE COORDINATED IN FIELD WITH OTHER TRADES. ALL CABLING IN CANOPY SHALL BE ROUTED IN CONDUIT. COORDINATE EXACT LOCATIONS OF CONDUIT IN FIELD. MAINTAIN A MINIMUM OF 6" SPACING BETWEEN DATA AND POWER CONDUITS.

CONTRACTOR SHALL COORDINATE IN FIELD FOR EXACT REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT.

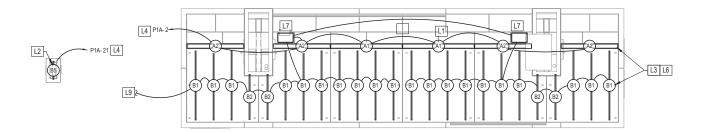
- POWER BRANCH CIRCUITS SHALL BE MINIMUM #10AWG
- ALL PULLBOXES AND PENETRATIONS THROUGH SNOW MELT AREA SHALL COMPLY WITH SNOW MELT SYSTEM REQUIREMENTS.

KEYED SHEET NOTES

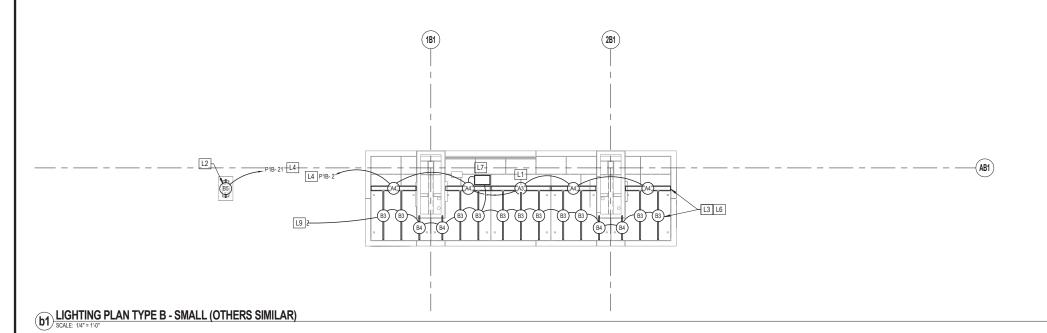
GENERAL NOTES

- CCTV CAMERA MOUNTED ON CEILING WITH CAMERA LENS BELOW LOWEST PART OF THE CANOPY.
- PAGING SPEAKER FLUSH WITH CEILING.
- GROUND RING. #2 BARE COPPER BURIED 30" BELOW GRADE, MINIMUM 2' FROM FOUNDATION.
- GROUND ROD, 3/4"x10' LONG COPPER CLAD WITH COLDWELD CONNECTION.
- PULLBOX FLUSH WITH FINISHED GRADE FOR POWER AND DATA CONNECTION TO FUTURE TICKET VALIDATION MACHINE. COORDINATE EXACT LOCATION IN FIELD. PROVIDE BARRIER BETWEEN DATA AND POWER CABLES.
- PULLBOX FLUSH WITH FINISHED GRADE FOR DATA AND POWER CONNECTION TO TICKET VENDING MACHINE. COORDINATE EXACT LOCATION IN FIELD. PROVIDE BARRIER BETWEEN DATA AND POWER CABLES.
- 12" X 24" PULLBOX FLUSH WITH FINISHED GRADE FOR FUSE BLOCK AND CONNECTORS. SEE SNOW MELT SYSTEM DESIGN FOR DETAILS
- SNOW MELT SYSTEM DESIGN BY OTHERS. PULLBOX FLUSH WITH FINISHED GRADE FOR DATA AND POWER CONNECTION TO EMERGENCY PHONE PEDESTAL. COORDINATE EXACT LOCATION IN FIELD. SEE ARCHITECTURAL SPECIFICATIONS FOR DETAILS. PROVIDE BARRIER BETWEEN POWER AND DATA CABLES. (1) CAT 6 FOR VOICE AND (1) FOR CAMERA.
- (1)-1" CONDUIT FOR LIGHTING CIRCUITS FROM PULLBOX TO CANOPY, COORDINATE EXACT LOCATION IN FIELD, SEE C4/E501 FOR
- J-BOX ABOVE CEILING FOR POWER CONNECTION TO FUTURE RADIANT HEATER. $(1) \pm 1^{\circ} \text{CONDUIT FROM PULLBOX TO CANOPY FOR POWER TO HEAT TAPE ON ROOF DRAIN PIPING. COORDINATE EXACT LOCATION IN$
- PROVIDE LOCKABLE BOX. COORDINATE EXACT LOCATION IN FIELD.
- SEE E502 FOR DETAILS.
- CONDUIT STUB AND PULLBOX FOR FUTURE TICKET VENDING MACHINE. PROVIDE BARRIER BETWEEN POWER AND DATA CABLES. COORDINATE EXACT LOCATION IN FIELD.
- POWER AND COMMUNICATIONS CABINET. SEE SHEET E501 FOR DETAIL. SEE SITE SHEETS FOR EXACT LOCATIONS FOR EACH STATION
- (1)-2" CONDUIT FROM PULLBOX TO CANOPY FOR CAT 6 CABLES TO CCTV CAMERAS, SPEAKERS, AND DATA CONNECTION TO BUS INDICATOR. ROUTE CAT 6 CABLES BACK TO PCC.
- (1)-3" UNDERGROUND CONDUIT FOR COMMUNICATIONS CABLES TO SUBFED STATIONS (WHERE THERE ARE TWO STATIONS PAIRED TOGETHER WITH ONE PCC). SEE SITE SHEETS FOR EXACT LOCATIONS.
- (2):3" UNDERGROUND CONDUITS FOR POWER FEEDERS TO SUBFED STATIONS (WHERE THERE ARE TWO STATIONS PAIRED TOGETHER WITH ONE PCC). SEE SHEET E114 FOR DETAILS.
- SNOW MELT SYSTEM EQUIPMENT CABINET. SEE SHEET E502 FOR DETAILS. SEE SITE DRAWINGS FOR EXACT LOCATION.
- PULLBOX MOUNTED ON UNISTRUT FOR POWER CONNECTION TO LIGHTING CIRCUITS, FUTURE RADIANT HEATER, MESSAGE BOARD, DIGITAL KIOSK, DIGITAL SLOT SIGN AND HEAT TAPE FOR DRAIN PIPES IN CANOPY. SEE C4/E501 FOR DETAILS.
- (1)-1" CONDUIT FOR DATA CONNECTION FROM MESSAGE BOARD TO LIGHTING CONTROLLER. COORDINATE EXACT LOCATION IN FIELD. COORDINATE EXACT CABLE AND INTERFACE REQUIRED, SEE A4/E501.
- PULLBOX FOR POWER CONNECTION TO SIGNAGE AND LIGHTING ON SIGNAGE PILLAR. COORDINATE EXACT LOCATION AND CONNECTION IN FIELD. SEE A4/E501 FOR ROUGH IN INFORMATION.
- (1)-1" CONDUIT FROM PULLBOX TO CANOPY FOR POWER CONNECTION TO MESSENGER BOARD. SEE C4/E501 FOR DETAIL. COORDINATE
- PULLBOX MOUNTED ON UNISTRUT FOR DATA CABLES TO CCTV CAMERAS, SPEAKERS AND BUS INDICATOR. SEE C4/E501 FOR DETAILS.
- BOND TO EQUIPMENT. COORDINATE EXACT REQUIREMENTS IN FIELD.

 DMX POWER SUPPLY AND CONTROLLER OTRAN QOM-BLED+DMX OR APPROVED EQUAL, MOUNT VERTICALLY ON UNISTRUT BEHIND. REMOVABLE PANEL FOR ACCESSIBILITY. SEE A4/E501. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD. PROVIDE DATA CONNECTION TO MESSAGE BOARD. PROVIDE ALL NECESSARY COMPONENTS AND CONNECTORS FOR PROPER SYSTEM OPERATION AND CONTROL
- PULLBOX MOUNTED ON UNISTRUT FOR DATA AND POWER CONNECTION TO DIGITAL KIOSK, DIGITAL SLOT SIGN AND MESSAGE BOARD. SEE C4/E501 FOR DETAILS.
- (1)-1" CONDUIT FROM PULLBOX TO CANOPY FOR POWER CONNECTION TO DIGITAL SIGNAGE AND DIGITAL KIOSK. SEE C4/E501 FOR DETAIL. COORDINATE EXACT LOCATION IN FIELD.
- J-BOX FOR POWER AND DATA CONNECTION TO DIGITAL SLOT SIGN. COORDINATE EXACT LOCATION IN FIELD.
- $\hbox{\it J-BOX FOR POWER AND DATA CONNECTION TO DIGITAL KIOSK. COORDINATE EXACT LOCATION IN FIELD. }$
- (1)-1" CONDUIT FROM PULLBOX TO CANOPY FOR POWER CONNECTION TO FUTURE RADIANT HEATER. SEE C4/E501 FOR DETAIL.
- (1)-1° CONDUIT FROM PULLBOX TO CANOPY FOR DATA CONNECTION TO MESSENGER BOARD. SEE C4/E501 FOR DETAIL. COORDINATE EXACT LOCATION IN FIELD.
- 1)-1" CONDUIT FROM PULLBOX TO CANOPY FOR POWER CONNECTION TO DIGITAL SIGNAGE AND DIGITAL KIOSK. SEE C4/E501 FOR DETAIL. COORDINATE EXACT LOCATION IN FIELD.



C1 LIGHTING PLAN TYPE A - LARGE (OTHERS SIMILAR)



LIGHTING FIXTURE SCHEDULE												
FIXTURE						LAMP						
TYPE	DESCRIPTION	MANUFACTURER	MODEL	NO.	WATTS	TYPE	CCT	CRI	VOLTAGE	MOUNTING	COMMENTS	
A1	RECESSED LINEAR LED - 6'	LUMENWERX	VIAWETS-PYC-LED-90-500-35-6'-120-D1-1-GSM-EF-W		33 W	LED	3500 K	90	120 V	RECESSED	OR APPROVED EQUAL	
A2	RECESSED LINEAR LED - 4'-9"	LUMENWERX	VIAWETS-PYC-LED-90-500-35-4'9"'-120-D1-1-GSM-EF-W		26 W	LED	3500 K	90	120 V	RECESSED	OR APPROVED EQUAL	
A3	RECESSED LINEAR LED - 5'	LUMENWERX	VIAWETS-PYC-LED-90-500-35-5'-120-D1-1-GSM-EF-W		28 W	LED	3500 K	90	120 V	RECESSED	OR APPROVED EQUAL	
A4	RECESSED LINEAR LED - 3'-9"	LUMENWERX	VIAWETS-PYC-LED-90-500-35-3'9"'-120-D1-1-GSM-EF-W		21 W	LED	3500 K	90	120 V	RECESSED	OR APPROVED EQUAL	
B1	WET LISTED LED RGBW TAPE LIGHT - 5'-9"	Q TRAN	iQ65-MW-30-90-3.5-5'9"		20 W	LED	3000 K		120 V	SURFACE	OR APPROVED EQUAL	
B2	WET LISTED LED RGBW TAPE LIGHT - 3'-9"	Q TRAN	iQ65-MW-30-90-3.5-3'9"		13 W	LED	3000 K		120 V	SURFACE	OR APPROVED EQUAL	
B3	WET LISTED LED RGBW TAPE LIGHT - 4'	Q TRAN	iQ65-MW-30-90-3.5-4'		14 W	LED	3000 K		120 V	SURFACE	OR APPROVED EQUAL	
B4	WET LISTED LED RGBW TAPE LIGHT - 2'	Q TRAN	iQ65-MW-30-90-3.5-2'		7 W	LED	3000 K		120 V	SURFACE	OR APPROVED EQUAL	
B5	WET LISTED LED RGBW TAPE LIGHT - 2'	Q TRAN	iQ65-MW-30-90-6.0-1.5'		9 W	LED	3000 K		120 V	SURFACE	OR APPROVED EQUAL	









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LIGHTING PLAN

NE-79-X001 **OPW 53347**

E113

34



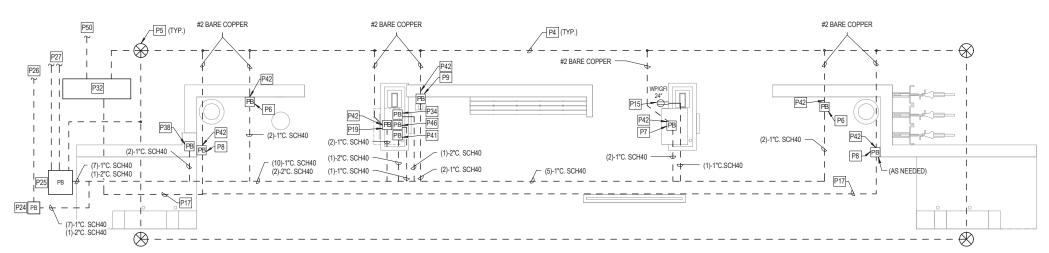
GENERAL NOTES

- ALL ELECTRICAL FIXTURES, CONTROLS, AND CABLES SHALL BE SUITABLE FOR OUTDOOR APPLICATION AND WET LOCATION RATED. ALL CABLES IN THE CANOPY SHALL BE ROUTED IN CONDUIT. COORDINATE EXACT LOCATIONS OF CONDUIT IN FIELD.

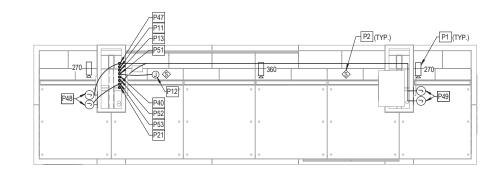
KEYED SHEET NOTES

- CANOPY LIGHTING WILL BE CONTROLLED BY PHOTOCELL AND TIME CLOCK
- SEE D3/AE450 FOR MOUNTING DETAILS. LIGHT TO BE CONTROLLED VIA MESSAGE BOARD COORDINATE WITH
- SEE D3/AE450 FOR MOUNTING DETAIL.
- TO PANEL VIA LIGHTING CONTACTOR (SEE A2/E501).
 LIGHTING FIXTURE AND CONTROL MODULES SHALL BE FURNISHED AND INSTALLED BY CANOPY VENDOR FOR PRE-FABRICATED CANOPIES. FIELD CONNECTION BOX AND TERMINALS SHALL BE PROVIDED BY THE CANOPY VENDOR. VENDOR.
- VENUOR:

 DMX POWER SUPPLY AND CONTROLLER QTRAN QOM-eLED+DMX OR APPROVED EQUAL. SURFACE MOUNTED IN CANOPY ABOVE REMOVABLE PANEL FOR ACCESSIBILITY. CORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD. PROVIDE ALL NECESSARY COMPONENTS AND CONNECTORS FOR PROPER SYSTEM OPERATION AND CONTROL.
- POWER CIRCUIT TO SIGNAGE PILLAR SIGNAGE LIGHTING. SEE A4/E501 FOR DETAILS.



POWER & SYSTEMS PLAN - SUBFED STATION



POWER & SYSTEMS CEILING PLAN - SUBFED STATION

GENERAL NOTES

- CCTV CAMERAS WILL BE FURNISHED BY OTHERS AND INSTALLED BY THE CONTRACTOR
- ALL CONDUITS SHALL BE ROUTED BACK TO THE POWER AND COMMUNICATIONS CABINET. SEE SITE INFRASTRUCTURE PLANS (BY OTHERS) FOR EXACT LOCATION. MAINTAIN A MINIMUM OF 6" SPACING BETWEEN DATA AND POWER CONDUITS.
- CONDUIT SHALL NOT BE ROUTED IN SNOW MELT AREA AND SHALL BE ROUTED NOT LESS THAN 6" BELOW SNOW MELT SYSTEM WHERE
- NUMBER OF CONDUITS SHOWN FOR REFERENCE ONLY, MULTIPLE BRANCH CIRCUITS IN ONE CONDUIT ARE ALLOWED, FIELD COORDINATE REQUIRED QUANTITY TO COMPLY WITH NEC REQUIREMENTS. INTERFACE BETWEEN CANOPY PULLBOXES AND PLATFORM CONDUITS SHALL BE COORDINATED IN FIELD WITH OTHER TRADES.
- ALL CABLING IN CANOPY SHALL BE ROUTED IN CONDUIT. COORDINATE EXACT LOCATIONS OF CONDUIT IN FIELD. MAINTAIN A MINIMUM OF 6' SPACING BETWEEN DATA AND POWER CONDUITS.
- CONTRACTOR SHALL COORDINATE IN FIELD FOR EXACT REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT
- ALL POWER AND COMMUNICATIONS CABLES SHALL BE EXTERIOR RATED.
- CONDUIT SHALL NOT BE ROUTED IN CONDUCTIVE CONCRETE AREA.
 BRANCH FEEDERS SHALL BE #8AWG MINIMUM. PROVIDE SAME SIZE GROUNDING CONDUCTORS.
- SEE PANEL SCHEDULES ON SHEET E601 FOR HOME RUN AND CIRCUITING INFORMATION.
- CAT. 6 CABLES SHALL BE CONTINUOUS FROM THE PATCH PANEL IN THE PCC TO ALL DEVICES AND OUTLETS. COIL ENOUGH CABLING IN PULLBOXES WHERE FUTURE CONNECTIONS TO EQUIPMENT OR DEVICES ARE NEEDED.
- WHERE UNDERGROUND CONDUITS ARE ROUTED UNDER DRIVEWAYS AND TRAFFIC AREAS PROVIDE SCHEDULE 80 PVC CONDUITS.

 CONTRACTOR SHALL COORDINATE IN FIELD WITH EXISTING UTILITY TYPE AND LOCATION IN THE STATION AREA. NEW UTILITY RUNS SHALL BE LOWERED TO AVOID CONFLICT WITH EXISTING UTILITIES. PROTECT EXISTING UTILITIES DURING CONSTRUCTION.
- ALL PULLBOXES AND PENETRATIONS THROUGH SNOW MELT AREA SHALL COMPLY WITH SNOW MELT SYSTEM REQUIREMENTS.

KEYED SHEET NOTES

- CCTV CAMERA MOUNTED ON CEILING WITH CAMERA LENS BELOW LOWEST PART OF THE CANOPY.
- PAGING SPEAKER FLUSH WITH CEILING.
- GROUND RING. #2 BARE COPPER BURIED 30" BELOW GRADE. MINIMUM 2' FROM FOUNDATION.
- GROUND ROD, 3/4"x10" LONG COPPER CLAD WITH COLDWELD CONNECTION
- PULLBOX FLUSH WITH FINISHED GRADE FOR POWER AND DATA CONNECTION TO FUTURE TICKET VALIDATION MACHINE. COORDINATE EXACT LOCATION IN FIELD. PROVIDE BARRIER BETWEEN DATA AND POWER CABLES.
- PULLBOX FLUSH WITH FINISHED GRADE FOR DATA AND POWER CONNECTION TO TICKET VENDING MACHINE. COORDINATE EXACT
- LOCATION IN FIELD, PROVIDE BARRIER BETWEEN DATA AND POWER CABLES. 12" X 24" PULLBOX FLUSH WITH FINISHED GRADE FOR FUSE BLOCK AND CONNECTORS. SEE SNOW MELT SYSTEM DESIGN FOR
- DETAILS. SNOW MELT SYSTEM DESIGN BY OTHERS. PULLBOX FLUSH WITH FINISHED GRADE FOR DATA AND POWER CONNECTION TO EMERGENCY PHONE PEDESTAL. COORDINATE EXACT LOCATION IN FIELD. SEE ARCHITECTURAL SPECIFICATIONS FOR DETAILS. PROVIDE BARRIER BETWEEN POWER AND DATA CABLES. (1) CAT 6 FOR VOICE AND (1) FOR CAMERA.
- (1)-1" CONDUIT FOR LIGHTING CIRCUITS FROM PULLBOX TO CANOPY. COORDINATE EXACT LOCATION IN FIELD. SEE C4/E501 FOR
- J-BOX ABOVE CEILING FOR POWER CONNECTION TO FUTURE RADIANT HEATER
- (1)-1" CONDUIT FROM PULLBOX TO CANOPY FOR POWER TO HEAT TAPE ON ROOF DRAIN PIPING. COORDINATE EXACT LOCATION IN
- PROVIDE LOCKABLE BOX. COORDINATE EXACT LOCATION IN FIELD
- SEE E502 FOR DETAILS.
- CONDUIT STUB AND PULLBOX FOR FUTURE TICKET VENDING MACHINE. PROVIDE BARRIER BETWEEN POWER AND DATA CABLES. COORDINATE EXACT LOCATION IN FIELD.
- (1)-2" CONDUIT FROM PULLBOX TO CANOPY FOR CAT 6 CABLES TO CCTV CAMERAS, SPEAKERS, AND DATA CONNECTION TO BUS INDICATOR, ROUTE CAT 6 CABLES BACK TO PCC
- 12" X 12" PULLBOX FOR COMMUNICATIONS CABLES FROM PCC PANEL TO THE SUBFED STATION. COORDINATE EXACT LOCATION
- 24" X 24" PULLBOX FOR POWER CABLES FROM PCC PANEL TO THE SUBFED STATION. COORDINATE EXACT LOCATION WITH OTHER
- (1)-3" CONDUIT FOR COMMUNICATIONS CABLES FROM PCC CABINET. BORE UNDER STREET. COMMUNICATIONS AND POWER
- CONDUITS SHALL MAINTAIN A 12" SEPARATION. (2)-3" CONDUITS FOR POWER CABLES FROM PCC TO THE SUBFED STATION. BORE UNDER STREET. COMMUNICATIONS AND POWER
- CONDUITS SHALL MAINTAIN A 12" SEPARATION.
- SNOW MELT SYSTEM EQUIPMENT CABINET. SEE SHEET E502 FOR DETAILS. SEE SITE DRAWINGS FOR EXACT LOCATION.
- PULLBOX MOUNTED ON UNISTRUT FOR POWER CONNECTION TO LIGHTING CIRCUITS, FUTURE RADIANT HEATER, MESSAGE BOARD, DIGITAL KIOSK, DIGITAL SLOT SIGN AND HEAT TAPE FOR DRAIN PIPES IN CANOPY. SEE C4/E501 FOR DETAILS.
- (1)-1" CONDUIT FOR DATA CONNECTION FROM MESSAGE BOARD TO LIGHTING CONTROLLER. COORDINATE EXACT LOCATION IN
- FIELD. COORDINATE EXACT CABLE AND INTERFACE REQUIRED. SEE A4/E501.
- PULLBOX FOR POWER CONNECTION TO SIGNAGE AND LIGHTING ON SIGNAGE PILLAR. COORDINATE EXACT LOCATION AND CONNECTION IN FIELD. SEE A4/E501 FOR ROUGH IN INFORMATION.
- 1)-1" CONDUIT FROM PULLBOX TO CANOPY FOR POWER CONNECTION TO MESSENGER BOARD. SEE C4/E501 FOR DETAIL.
- COORDINATE EXACT LOCATION IN FIELD.
- PULLBOX MOUNTED ON UNISTRUT FOR DATA CABLES TO CCTV CAMERAS, SPEAKERS AND BUS INDICATOR. SEE C4/E501 FOR DETAILS.
- BOND TO EQUIPMENT, COORDINATE EXACT REQUIREMENTS IN FIELD

DETAIL. COORDINATE EXACT LOCATION IN FIELD.

- DMX POWER SUPPLY AND CONTROLLER QTRAN QOM-eLED+DMX OR APPROVED EQUAL. MOUNT VERTICALLY ON UNISTRUT BEHIND REMOVABLE PANEL FOR ACCESSIBILITY. SEE A4/E501. COORDINATE EXACT LOCATION AND REQUIREMENTS IN FIELD. PROVIDE DATA CONNECTION TO MESSAGE BOARD. PROVIDE ALL NECESSARY COMPONENTS AND CONNECTORS FOR PROPER SYSTEM OPERATION AND CONTROL.
- PULLBOX MOUNTED ON UNISTRUT FOR DATA AND POWER CONNECTION TO DIGITAL KIOSK, DIGITAL SLOT SIGN AND MESSAGE BOARD. SEE C4/E501 FOR DETAILS.
- (1)-1" CONDUIT FROM PULLBOX TO CANOPY FOR POWER CONNECTION TO DIGITAL SIGNAGE AND DIGITAL KIOSK. SEE C4/E501 FOR DETAIL. COORDINATE EXACT LOCATION IN FIELD.
- J-BOX FOR POWER AND DATA CONNECTION TO DIGITAL SLOT SIGN. COORDINATE EXACT LOCATION IN FIELD.
- J-BOX FOR POWER AND DATA CONNECTION TO DIGITAL KIOSK. COORDINATE EXACT LOCATION IN FIELD.
- UNDERGROUND CONDUITS FOR POWER FROM PCC TO SNOW MELT SYSTEM TRANSFORMERS. COORDINATE EXACT LOCATION IN FIELD. SEE E502 FOR DETAILS.
- (1)-1" CONDUIT FROM PULLBOX TO CANOPY FOR POWER CONNECTION TO FUTURE RADIANT HEATER. SEE C4/E501 FOR DETAIL. COORDINATE EXACT LOCATION IN FIELD.
- (1)-1° CONDUIT FROM PULLBOX TO CANOPY FOR DATA CONNECTION TO MESSENGER BOARD. SEE C4/E501 FOR DETAIL. COORDINATE EXACT LOCATION IN FIELD.
- 1)-1" CONDUIT FROM PULLBOX TO CANOPY FOR POWER CONNECTION TO DIGITAL SIGNAGE AND DIGITAL KIOSK. SEE C4/E501 FOR









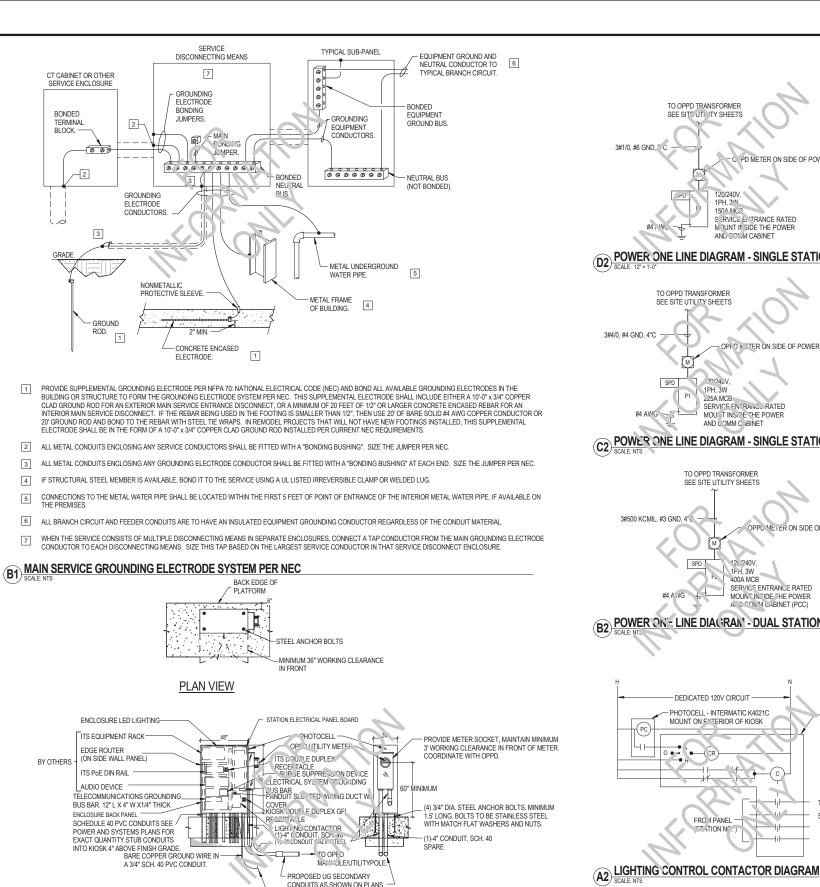




LEO A DALY 8600 INDIAN HILLS DRIVE OMAHA, NE 68114-4039

OPW 53347

NE-79-X001



TO GROUNDING GRID SEE ONE-LINE FOR G.E.C. SIZE.

SURGE FRO IEST TOWN OF YOUR SHOULD SHOW THE SYSTEM PANDUIT WIRING DUCT.
CABINET ENCLOSURE SHALL BE NEMA 4X RATED.
PROVIDE LOCKABLE DOOR ON CABINET.

AVAILABLE SPACE IN ENCLOSURE IS MINIMAL ENCLOSURE ELECTRICAL EQUIPMENT LAYOUT BASED ON THE FOLLOWING MANUFACTURERS. IF OTHER MANUFACTURERS ARE USED, ELECTRICAL CONTRACTOR SHALL COORDINATE TO ENSURE ALL EQUIPMENT WILL FIT IN SPACE PROVIDED ADJUST CABINET HEIGHT AS NEEDED FOR ALL EQUIPMENT.

2 PANELBOARD: SQUARE D 'NO': 30 SPACE, 14' WIDE, NEMA 1 ENCLOSURE. FOR DOUBLE STATIONS, PANELS SHALL BE 42 SPACES.

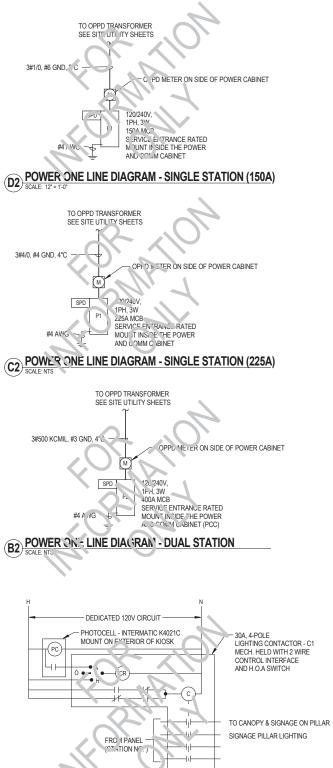
3 LIGHTING CONTACTOR SQUARE D 'LOG' 30A, NEMA 1 ENCLOSURE.

4 SURGE PROTECTION DEVICE: LIEBERT 'LPL', 100KA.

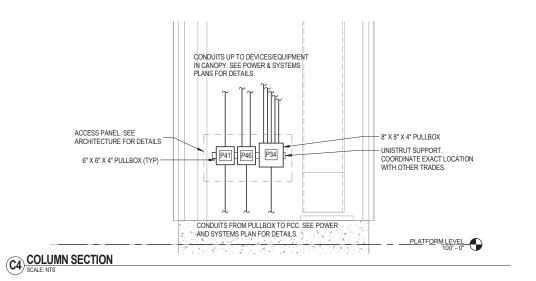
5 SURGE PROTECTION DEVICE: LIEBERT 'LPL', 100KA.

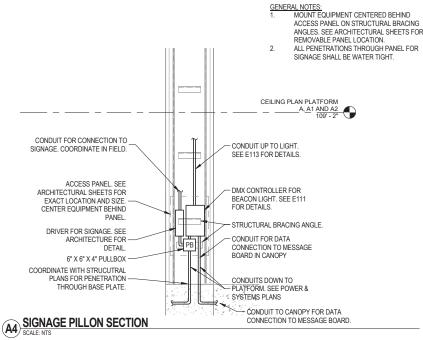
FRONT ELEVATION

POWER AND COMM CABINET DETAIL (PCC)



- PULLBOX MOUNTED ON LINISTRUT FOR POWER CONNECTION TO LIGHTING CIRCUITS. FUTURE RADIANT HEATER MESSAGE BOARD, DIGITAL KIOSK, DIGITAL SLOT SIGN AND HEAT TAPE FOR DRAIN PIPES IN CANOPY. SEE C4/E501
- PULLBOX MOUNTED ON UNISTRUT FOR DATA CABLES TO CCTV CAMERAS, SPEAKERS AND BUS INDICATOR. SEE C4/E501 FOR DETAILS.
- PULLBOX MOUNTED ON UNISTRUT FOR DATA AND POWER CONNECTION TO DIGITAL KIOSK, DIGITAL SLOT SIGN AND MESSAGE BOARD. SEE C4/E501 FOR DETAILS.





ELECTRICAL DETAILS

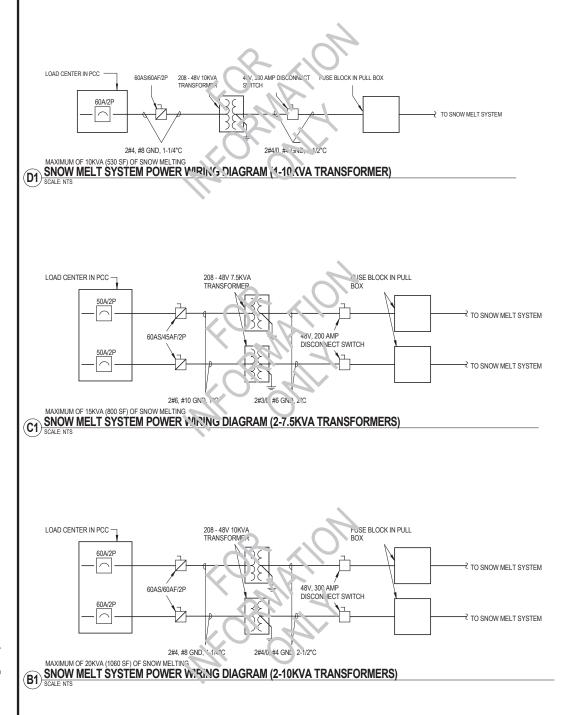


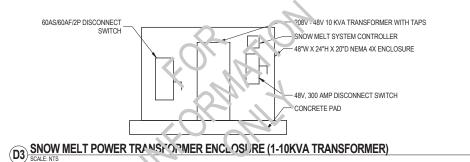


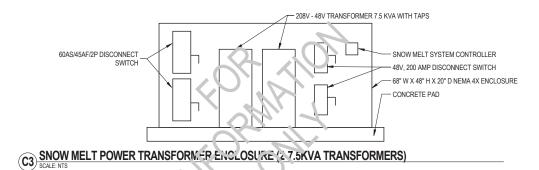


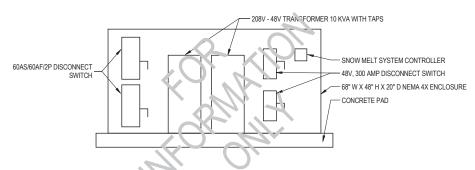


LEO A DALY NE-79-X001 8600 INDIAN HILLS DRIVE OMAHA, NE 68114-4039 **OPW 53347**









SNOW MELT POWER TRANSFORMER ENCLOSURE (2-10KVA TRANSFORMERS)

SNOW MELT SYSTEM DETAILS E502



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GENERAL NOTES

REQUIRED.

COORDINATE WITH SNOW MELT SYSTEM DESIGNER FOR EXACT REQUIREMENTS FOR SYSTEM EQUIPMENT SIZES.
COORDINATE EXACT FEEDER SIZE WITH SNOW MELT
CONSULTANT. PROVIDE LARGER SIZE CONDUCTORS AND

CONDUITS WHERE REQUIRED TO COMPENSATE FOR VOLTAGE DROP. PROVIDE FEEDER ADAPTER WHERE

REQUIRED.
ALL EQUIPMENT AND FEEDERS SHOWN ARE FOR
REFERENCE ONLY. CONTRACTOR TO COORDINATE WITH
SNOW MELT SYSTEM DESIGNER FOR EXACT
REQUIREMENTS.

 MAINS TYPE:
 MCB

 MAIN BREAKER SIZE:
 150A

TYPE: LIGHTIN PHASE BUS RATING: 150A LIGHTING & APPLIANCE

LOCATION:
MOUNTING: SURFACE FED FROM ID: TRANSFORMER

SERVICE VOLTAGE: 120/208 Single,1-PHASE,3-WIRE AIC RATING: NOTES: 42KAIC

SINGLE STATION TYPE A (WESTROADS STATION, OTHER STATIONS SIMILAR, SEE STATION LOAD/PANEL TYPE SCHEDULE FOR EXACT PANEL SIZE AT EACH STATION)

NEUTRAL BUS RATING: 150A

LOAD DESCRIPTION		Р	CKT NO.	A (VA)		B (VA)		CKI No.	Р	BKR	LOAD DESCRIPTION	
RECEPTACLE	20	1	1	180	140			2	1	20	LIGHTING/BACKLIGHTING	
TVM - FUTURE (FEEDER:(2)#10,#10GND)	30	1	3			2800	60.3	4	1	20	BUS INDICATOR LIGHT	
RADIANT HEATER - FUTURE (FEEDER: (2)#10,#10GND)	30	2	5	3000	100			6	1	20	MESSAGE BOARD	
NADIANT HEATER - TOTORE (I EEDER. (2)#10,#109ND)	30		7			\$500	900	8	1	20	EMERGENCY PHONE	
SNOW MELTING SYSTEM (GFPE) (FEEDER: (2)#6,#10GND)	60	2	9	.737	2800			10	1	30	TVM (FEEDER: (2)#10,#10GND)	
SNOW MELTING SYSTEM (GFPE) (FEEDER: (2)#6,#10GND)	60	2	11			2374	1400	12	1	20	TICKET VALIDATION - FUTURE	
SNOW MELTING SYSTEM (GFPE) (FEEDER: (2)#6,#10GND)	60	2	13	2374	600			14	1	20	HEAT TAPE FOR ROOF DRAIN PIPING (GFPE)	
SNOW MELTING STSTEM (GFFE) (FEEDER. (2)#0,#10GND)	60		15			2374	1400	16	1	20	TICKET VALIDATION - FUTURE	
ITS RECEPTACLE	20	1	17	360				18	2	30	SPD	
LIGHTING CONTROLLER	20	1	19			16.		20	2	30		
PILON LIGHTING	20	1	21	5	0			22	1	20	SPARE	
DIGITAL SIGNAGE	20	1	23			360	0	24	1	20	SPARE	
SPARE	20	1	25	2	0			26	1	20	SPARE	
SPARE	20	1	2,			0	0	28	1	20	SPARE	
SPARE	20	1	29	0	0			30	1	20	SPARE	
		Tota	I Load:	12415	.00 VA	15208	3.00 VA					
	119	.4 A	142	1								

MAINS TYPE: MCB MAIN BREAKER SIZE: 150A SERVICE VOLTAGE: 120/208 Single, 1-PHASE, 3-WIRE				BUS RA		<u>LIGHTING 8</u> 150 <u>A</u> 150A	& APPLIANO	<u>DE</u>		OCAT MOUN ED FI	TING:	SURFACE TRANSFORMER
AIC RATING: NOTES: SINGLE STATION TYPE	B (24TH WB STATION, OTHER STATIO	ONS SIMI	LAR, S	SEE STA	TION LOAE	D/PANEL TY	PE SCHED	ULE FOR E	XACT PA	ANEL S	SIZE AT	EACH STATION)
LO	AD DESCRIPTION	BKR	Р	CKT NO.	Α(VA)	В (VA)	CK.	Р	BKR	LOAD DESCRIPTION
RECEPTACLE		20	1	1	180	200				1	20	LIGHTING/BACKLIGHTING
TVM - FUTURE (FEEDE	R: (2)#10,#10GND)	30	1	3		K 74	2800	61.7	4	1	20	BUS INDICATOR LIGHT
	RADIANT HEATER - FUTURE (FEEDER: (2)#10, #10GND)		2	5	3000	167			6	1	20	MESSAGE BOARD
RADIANT HEATER - FU			-	7			3000	800	8	1	20	EMERGENCY PHONE
DUOM MELTING OVERTEN (OFFIC) (FEFFICE OVER 1/400ND)		50	2	9	2.070	2800	. 12		10	1	30	TVM (FEEDER:(2)#10,#10GND)
SNOW MELTING SYSTE	SNOW MELTING SYSTEM (GFPE) (FEEDER: 2#6, #10GND)		2	11			.`07(1400	12	1	20	TICKET VALIDATION - FUTURE
SNOW MELTING SYSTEM (GFPE) (FEEDER: 2#6, #10GND)		50	2	13	2070	600	7/1/2		14	1	20	HEAT TAPE FOR ROOF DRAIN PIPING (GFPE)
SINOW WELTING STOTE	EM (GFFE) (FEEDER. 2#6, #10GND)	50	-	15		K O I	2070	1400	16	1	20	TICKET VALIDATION - FUTURE
ITS RECEPTACLE		20	1	17	360				18	2	30	SPD
LIGHITNG CONTROLLE	R	20	1	19			100		20	2	30	370
PILON LIGHTING		20	1	21	5	0			22	1	20	SPARE
DIGITAL SIGNAGE		20	1	23			360	0	24	1	20	SPARE
SPARE		20	1	2.	2	0			26	1	20	SPARE
SPARE	SPARE		1	27			0	0	28	1	20	SPARE
SPARE		20	1	29	0	0			30	1	20	SPARE
			Tota	I Load:	11476	.50 VA	14600	0.00 VA				

MAINS TYPE: MCB MAIN BREAKER SIZE: 400A SERVICE VOLTAGE: 120/208 Single,1-PHASE,3-WIRE AIC RATING: 42KAIC	P		BUS RA	ATING: RATING:					MOUN FED F	TING:	SURFACE TRANSFORMER	
NOTES: DUAL STATION TYPE A (62ND STATIONS, OTHER STAT	IONS SIMILAR	, SEE S		N LOAD/PA	NEL TYPE \$	SCHEDULE	FOR EXAC	T PANE	L SIZE	AT EAC	H STATION)	
LOAD DESCRIPTION	BKR	Р	CKT NO.	A	A (VA)		B (VA)		Р	BKR	R LOAD DESCRIPTION	
RECEPTACLE (1ST STATION)	20	1	1	180	1142			2	1	20	LIGHTING (1ST STATION)	
TVM - FUTURE (1ST STATION) (FEEDER: (2)#10,#10GNE	0) 30	1	3			2800	600	4	1	20	BUS INDICATOR LIGHT (1ST STATION)	
RADIANT HEATER - FUTURE (1ST STATION) (FEEDER: (2)#10, #10GND)		2	5	3000	100			6	1	20	MESSAGE BOARD (1ST STATION)	
		_	7			3000	900	8	1	20	EMERGENCY PHONE (1ST STATION)	
RECEPTACLE (2ND STATION) (FEEDER: (2)#8,#8GND)	20	1	9	180	. 30.			10	1	30	TVM (1ST STATION) (FEEDER:(2)#10,#10GND)	
TVM - FUTURE (2ND STATION) (FEEDER: (2)#6,#6GND)		1	11			25,20	400	12	1	20	TICKET VALIDATION - FUTURE (1ST STATION)	
RADIANT HEATER - FUTURE (2ND STATION) (FEEDER: (2)#6, #6GND)		2	13	งกาบ	600			14	1	20	HEAT TAPE (1ST STATION) (GFPE)	
		2	15			3,170	1400	16	1	20	TICKET VALIDATION - FUTURE (1ST STATION)	
ITS RECEPTACLE	20	1	17	360	152			18	1	20	LIGHTING (2ND STATION) (FEEDER: (2)#8,#8GND)	
SNOW MELTING SYSTEM (1ST STATION) (GFPE) (FEED	ER: 60	2	19			2220	600	20	1	20	BUS INDICATOR (2ND STATION) (FEEDER: (2)#8,#8GND)	
(2)#6, #6GND)	00	-	21	2220	167			22	1	20	MESSAGE BOARD (2ND STATION) (FEEDER:(2)#8,#8GNI	
SNOW MELTING SYSTEM (2ND STATION) (GFPE) (FEED	DER: 60	2	23			22'2 '	90J	24	1	20	EMERGENCY PHONE (2ND STATION) (FEEDER: (2)#8,#8	
(2)#6, #6 GND)	00		25	2225	2800			26	1	30	TVM (2ND STATION) (FEEDER:(2)#6,#6GND)	
SNOW MELTING SYSTEM (2ND STATION) (GFPE) (FEED	DER: 60	2	27			2100	1400	28	1	20	TICKET VALIDATION (2ND STATION) (FEEDER: (2)#8,#80	
(2)#6, #6 GND)	00	-	29	۵ک	600			30	1	20	HEAT TAPE (2ND STATION) (GFPE) (FEEDER: (2)#8,#8Gf	
SNOW MELTING SYSTEM (2ND STATION) (GFGE) (FEE	DER: 60	2	31			2100	1400	32	1	20	TICKET VALIDATION (2ND STATION) (FEEDER: (2)#8,#80	
(2)#6, #6 GND)	00		33	2100	0			34	2	30	SPD	
LIGHITNG CONTROLLER	20	1	35			100	0	36		30		
DIGITAL SIGNAGE (1ST STATION)	20	1	37	360	0			38	1	20	SPARE	
DIGITAL SIGNAGE (2ND STATION) (FEEDER: (2)#8,#8GN	ND) 20	1	39			360	0	40	1	20	SPARE	
SPARE	20	1	41	0	0			42	1	20	SPARE	
			Load:		4.00 VA		0.00 VA					

	STATIO	N LOAD/I	PANEL T	YPE SCHEDI	JLE	
STATION	SNOW MELT LOAD (KVA)	TOTAL LOAD (KVA)	TOTAL CURRENT (A)	SERVICE VOLTAGE	PANEL TYPE AND SIZE (A)	COMMETS
WESTROADS	11.9	27	143	120/208V, 1P. 3W		
90TH WB	9.3	25	133	120/208V 1P. 3vv		
90TH EB	9.2	23	122	120/20 JV, 1F, 3V.	P1B - 150A	
84TH WB	9.4	23	122	120/20. V, 1P, 3 N	P1B - 150A	
84TH EB	14.8	20	154	20/2c9V, 17, 3W	P1A - 225A	
72ND WB	10.2	6	137	127/208V, 1P, 3W	P1A - 150A	
72ND EB	8.3	2ι	130	120/2 78V, 1P, 3W	P1A - 150A	
62ND WB	11.1	52	277	123/208V, 1P, 3W	P2A - 400A	ONE PCC FOR
62ND EB	10.6		~ ///			BOTH STATIONS
49TH WB	11.3	53	230	120/208V, P, 3W	P2A - 400A	ONE PCC FOR
49TH EB	11.3					BOTH STATIONS
42ND WB	11.3	27	1.12	12 V208V, 1P, JW	P1A - 150A	
42ND EB	9.4	.6	135	120/208V .P, 3W	P1A - 150A	
35TH EB	10.8	23	139	120/108v, 1P, 3W	P1A - 150A	
33RD WB	9.4	25	174	120/208V, 1P, 3W	P1A - 150A	
PARK AVE WB	16.5	28	14.5	120/208V, 1P, 3W	P1B - 225A	
PARK AVE EB	10.5	26	138	120/208V, 1P, 3W	P1A - 150A	
24TH WB	10.4	26	125	120/208V, 1P, 3W	P1B - 150A	
24TH EB	10.5	26	138	120/208V, 1P, 3W	P1A - 150A	
20TH WB	16.5	28	146	120/208V, 1P, 3W	P1B - 225A	
19TH EB	10.5	26	138	120/208V, 1P, 3W	P1A - 150A	
16TH WB	8.7	25	131	120/208V, 1P, 3W	P1A - 150A	
15TH EB	10.5	26	138	120/208V, 1P, 3W	P1A - 150A	
12TH WB	9.0	25	132	120/208V, 1P, 3W	P1A - 150A	
10TH EB	10.5	26	138	120/208V, 1P, 3W	P1A - 150A	

SNOW MELT LOAD FOR REFERENCE ONLY. COORDINATE WITH SYSTEM DESIGNER FOR EXACT LOAD INFORMATION.

ELECTRICAL SCHEDULES E601











NE-79-X001 OPW 53347

GENERAL NOTES

PANEL BOARD INFORMATION SHOWN IS FOR TYPICAL TYPE
A AND B STATIONS. CONTRACTOR TO COORDINATE WITH
SITE CIVIL SHEETS FOR QUANTITY OF PANELBOARDS
REQUIRED.
SNOW MELT LOAD INFORMATION SHOWN IS FOR
REFERENCE ONLY. SEE SHEET E502 AND COORDINATE WITH
SNOW MELT DESIGNER FOR EXACT REQUIREMENTS.

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