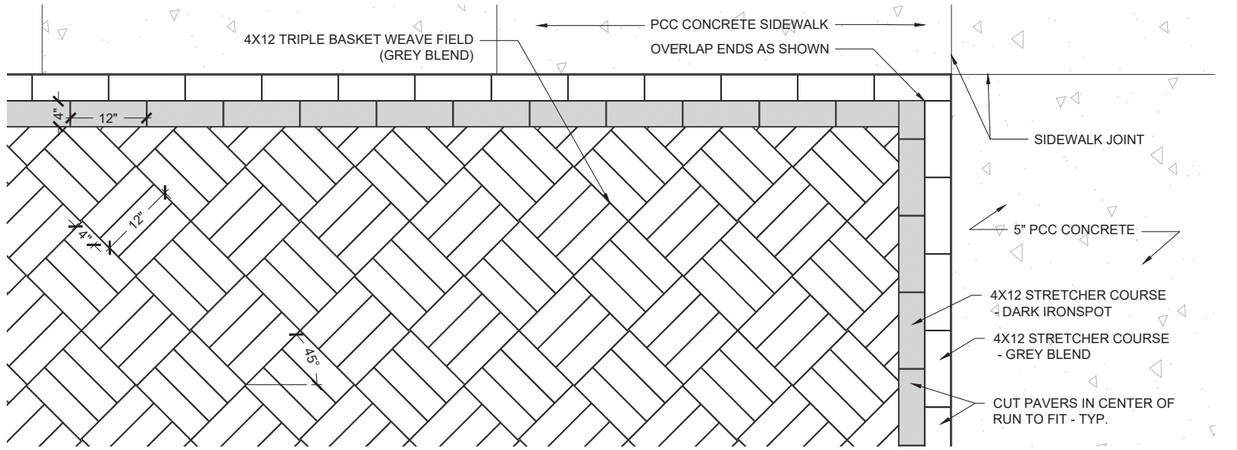
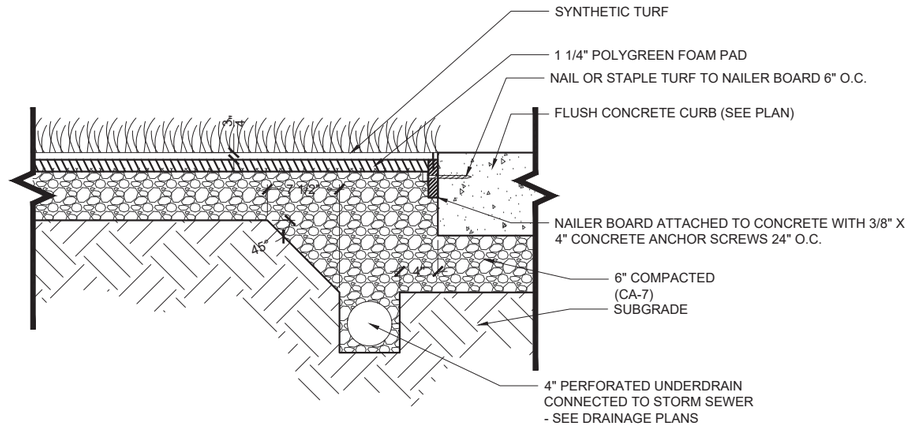
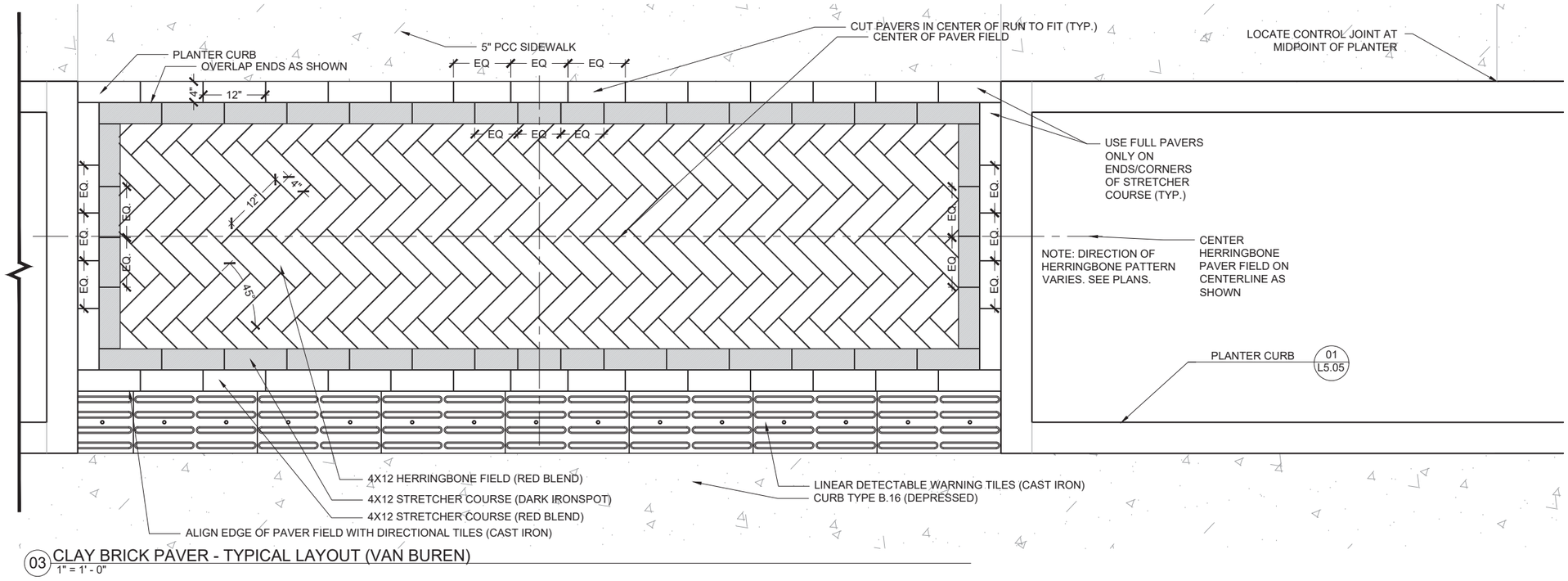


01 4X12 BASKET WEAVE GREY BLEND - TYPICAL LAYOUT
1" = 1' - 0"



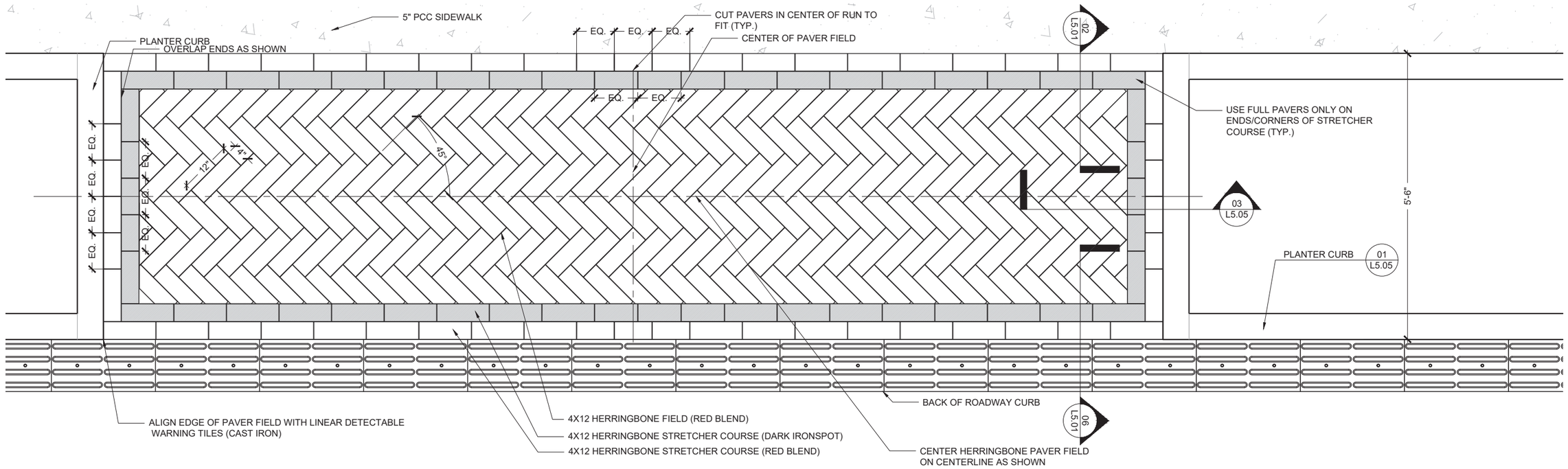
02 ARTIFICIAL TURF - TYPICAL SECTION
1-1/2" = 1' - 0"



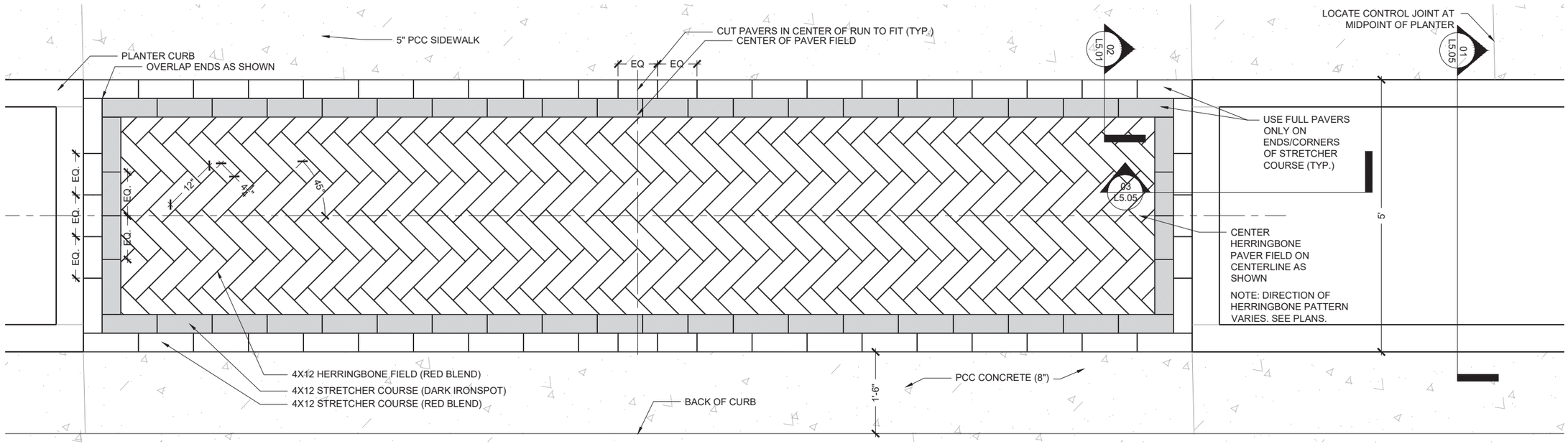
03 CLAY BRICK PAVER - TYPICAL LAYOUT (VAN BUREN)
1" = 1' - 0"

L5.03

CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET	PAVER AND SURFACE DETAILS	COUNTY	TOTAL SHEETS 224 / SHEET NO. 101
		DRAWN - JDM, MA	REVISED -				
		CHECKED - PJH	REVISED -			CONTRACT NO.	
		DATE - 4/26/2024	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS	FED. AID PROJECT



01 CLAY BRICK PAVER - TYPICAL LAYOUT (CHICAGO ST - CURBLESS AREA)
1" = 1' - 0"



02 CLAY BRICK PAVER - TYPICAL LAYOUT (CHICAGO ST. STREETSCAPE AREA)
1" = 1' - 0"

L5.04

CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -
		DRAWN - JDM, MA	REVISED -
		CHECKED - PJH	REVISED -
		DATE - 4/26/2024	REVISED -

CITY OF JOLIET

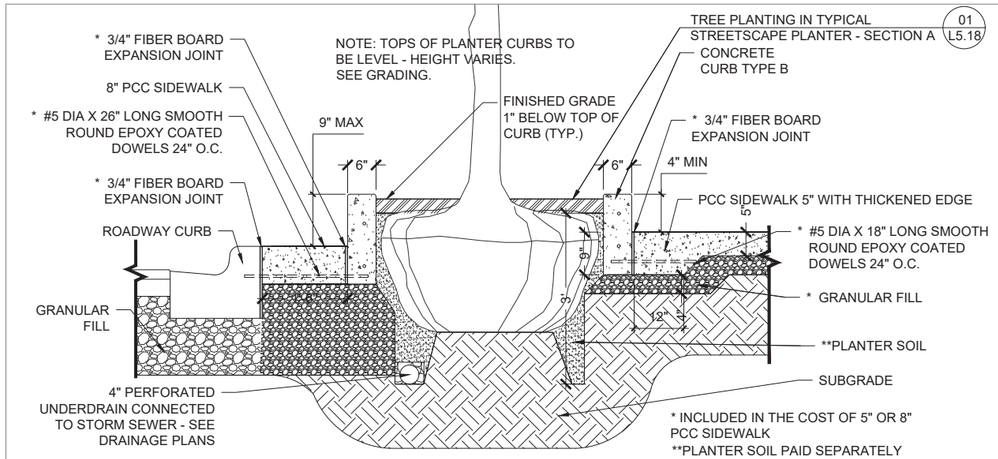
STREETSCAPE TYPICAL LAYOUTS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

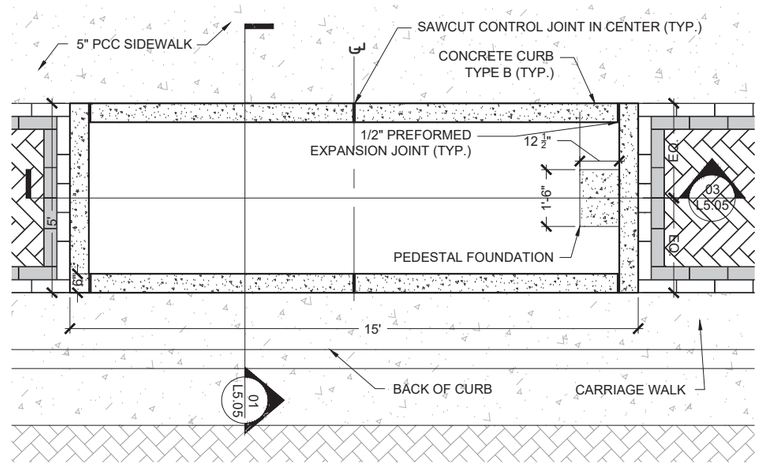
COUNTY	TOTAL SHEETS	SHEET NO.
	224	102

CONTRACT NO.

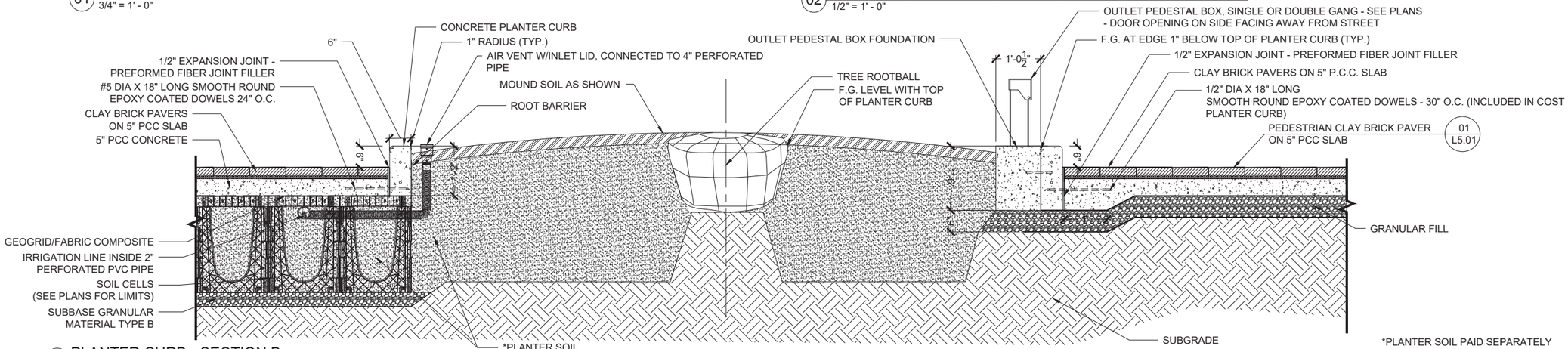
ILLINOIS | FED. AID PROJECT



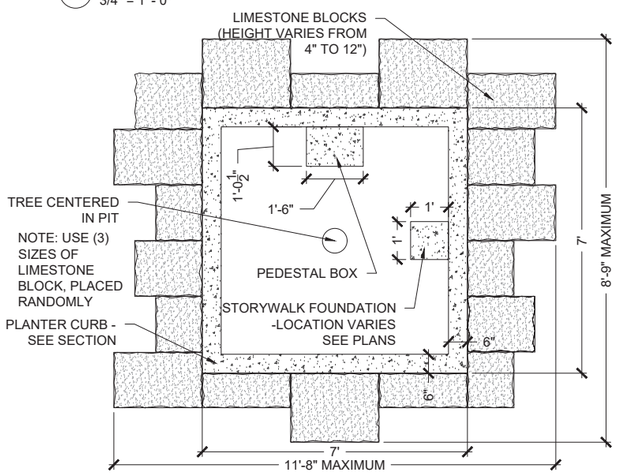
01 PLANTER CURB - SECTION A
3/4" = 1' - 0"



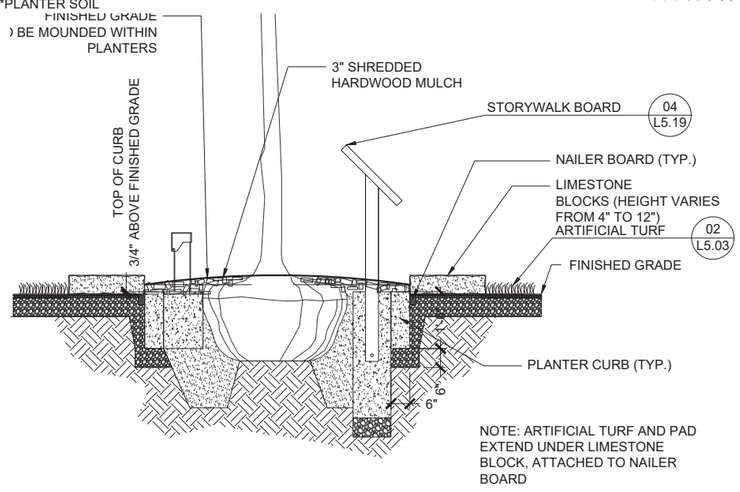
02 PLANTER CURB - TYPICAL LAYOUT
1/2" = 1' - 0"



03 PLANTER CURB - SECTION B
3/4" = 1' - 0"



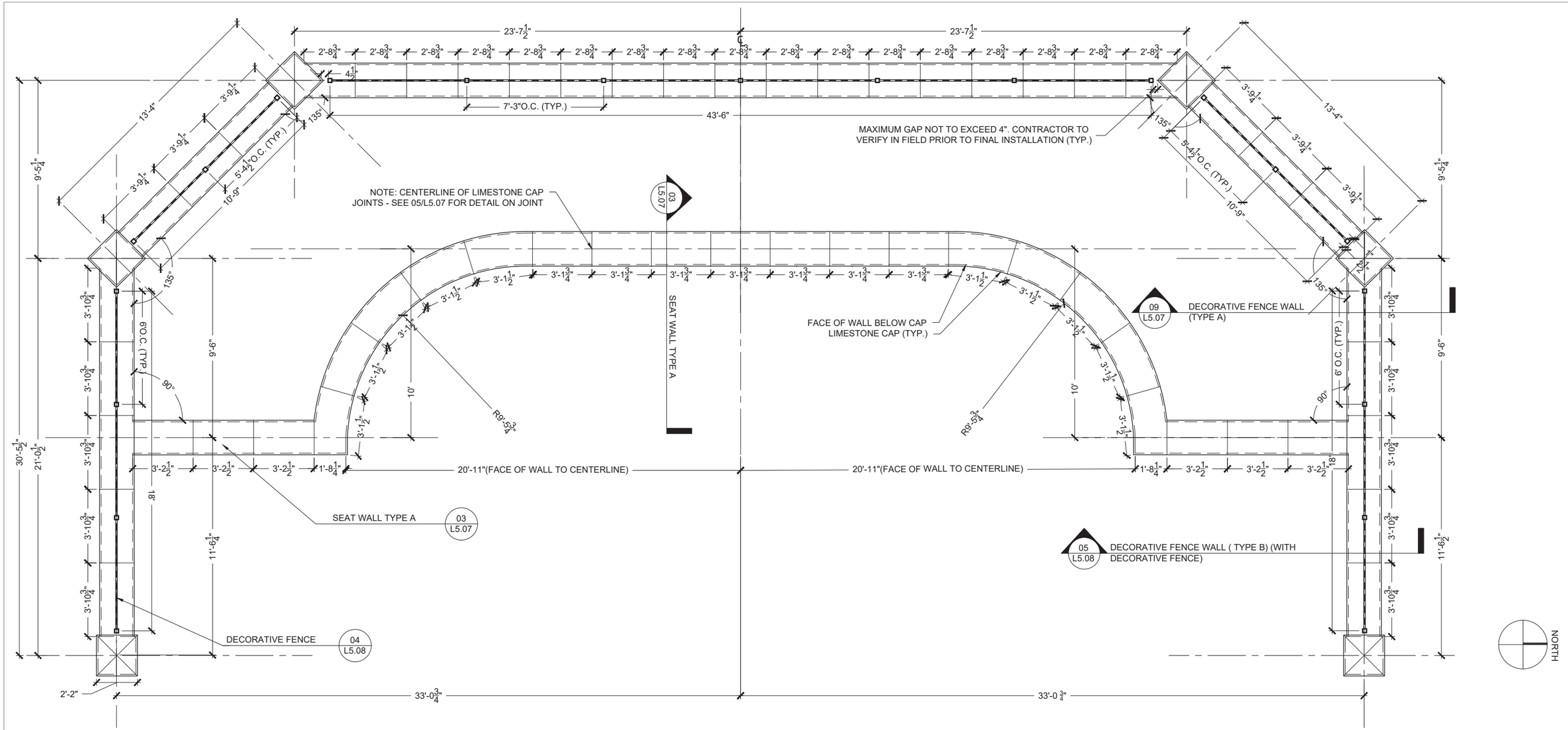
04 LIMESTONE STEPPER PLANTER - TYPICAL LAYOUT
1/2" = 1' - 0"



05 LIMESTONE STEPPER PLANTER - SECTION
1/2" = 1' - 0"

L5.05

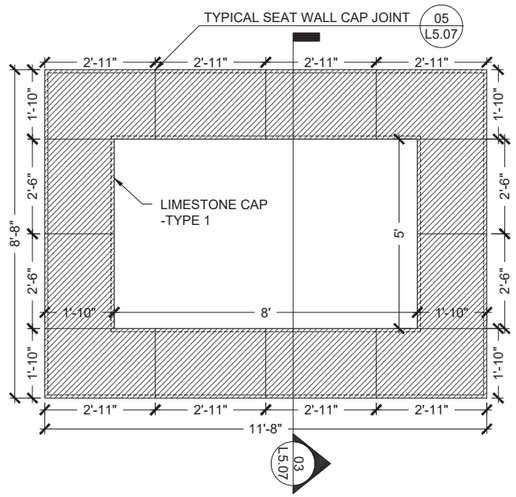
CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET	PLANTER HARDSCAPE DETAILS		COUNTY / TOTAL SHEETS / SHEET NO.
		DRAWN - JDM, MA	REVISED -				224 / 103
		CHECKED - PJH	REVISED -				CONTRACT NO.
		DATE - 4/26/2024	REVISED -		SCALE: / SHEET OF SHEETS / STA. TO STA.		ILLINOIS / FED. AID PROJECT



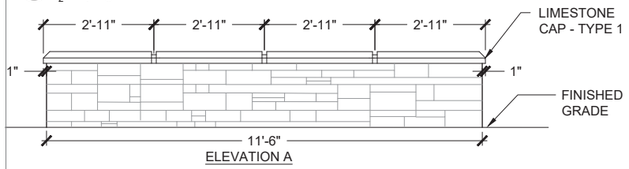
01 FAMILY GATHERING PLANTER - PLAN VIEW LAYOUT
3/8" = 1' - 0"

L5.06

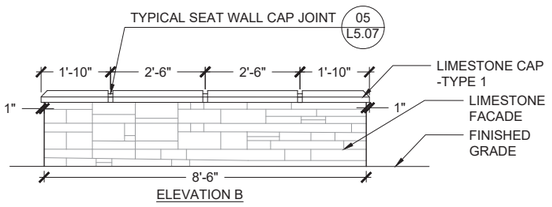
CIVILTECH	DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET
	DRAWN - JDM, MA	REVISED -	PLANTER SEATWALL
	CHECKED - PJH	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.
	DATE - 4/26/2024	REVISED -	COUNTY / TOTAL SHEETS 224 / SHEET NO. 104 / CONTRACT NO. / ILLINOIS FED. AID PROJECT



01 SEAT WALL - PLAN VIEW LAYOUT (CAP)
1/2" = 1' - 0"

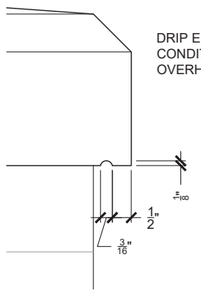


ELEVATION A

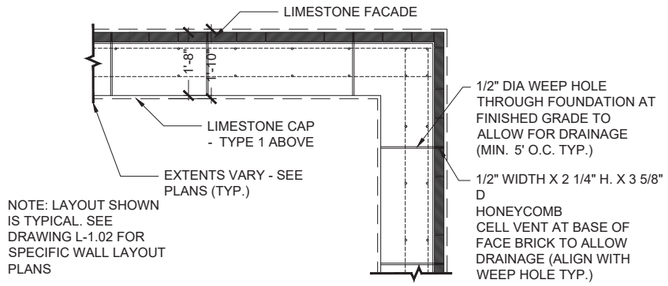


ELEVATION B

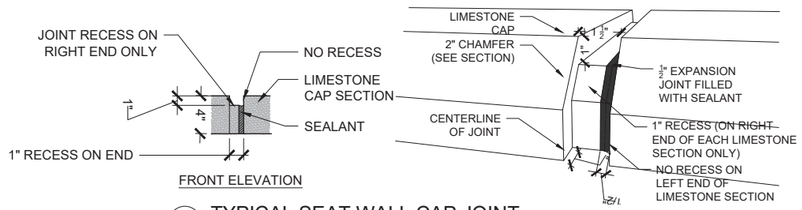
04 SEAT WALL - ELEVATION A AND B
1/2" = 1' - 0"



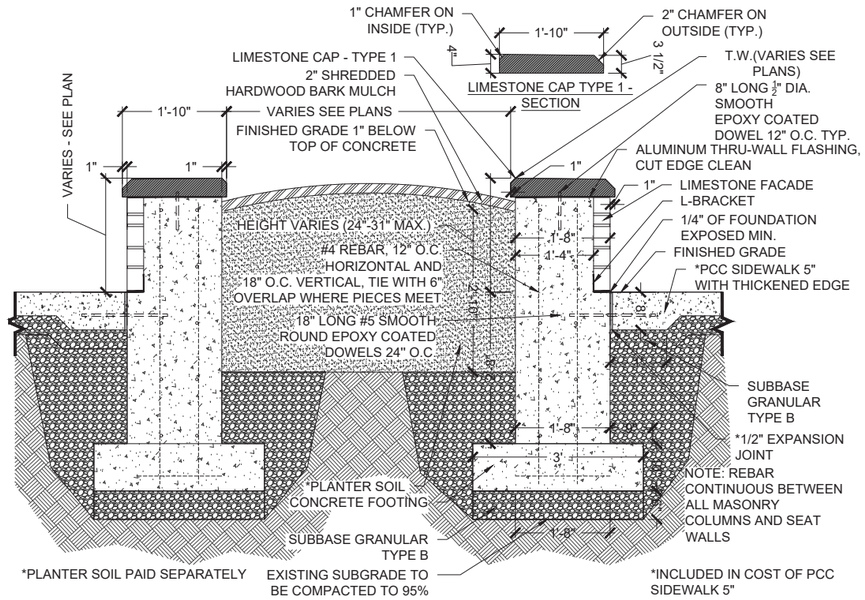
06 MASONRY PIER ELEVATION
6" = 1' - 0"



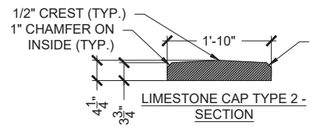
02 SEAT WALL - PLAN VIEW LAYOUT (CORE) (TYP.)
1/2" = 1' - 0"

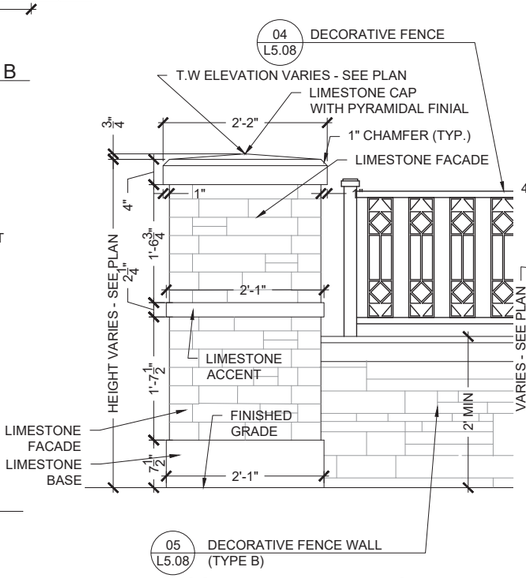


05 TYPICAL SEAT WALL CAP JOINT
NTS

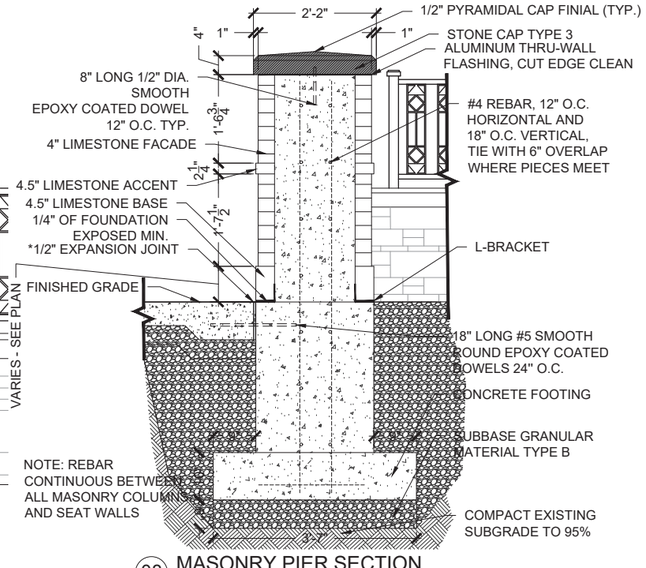


03 SEAT WALL (TYPE A) - TYP. SECTION
3/4" = 1' - 0"

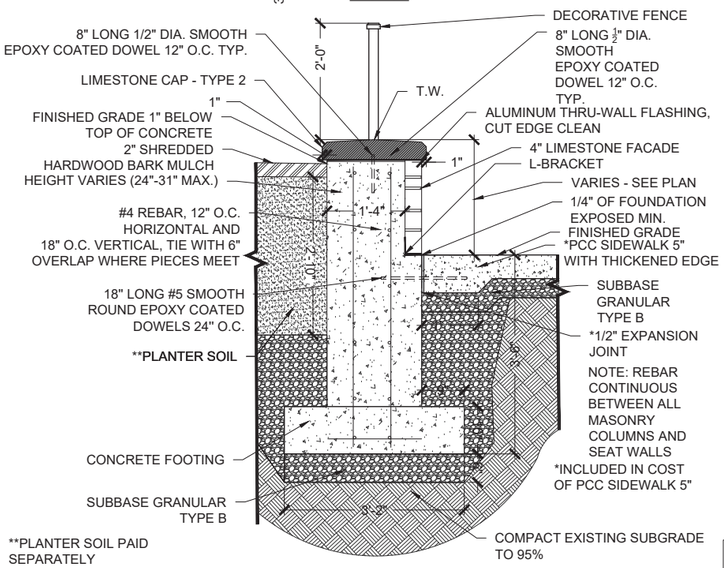




07 MASONRY PIER ELEVATION
1" = 1' - 0"



08 MASONRY PIER SECTION
3/4" = 1' - 0"



09 DECORATIVE FENCE WALL (TYPE A) - TYP. SECTION
3/4" = 1' - 0"

L5.07

CIVILTECH	DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET
	DRAWN - JDM, MA	REVISED -	
	CHECKED - PJH	REVISED -	
	DATE - 4/26/2024	REVISED -	

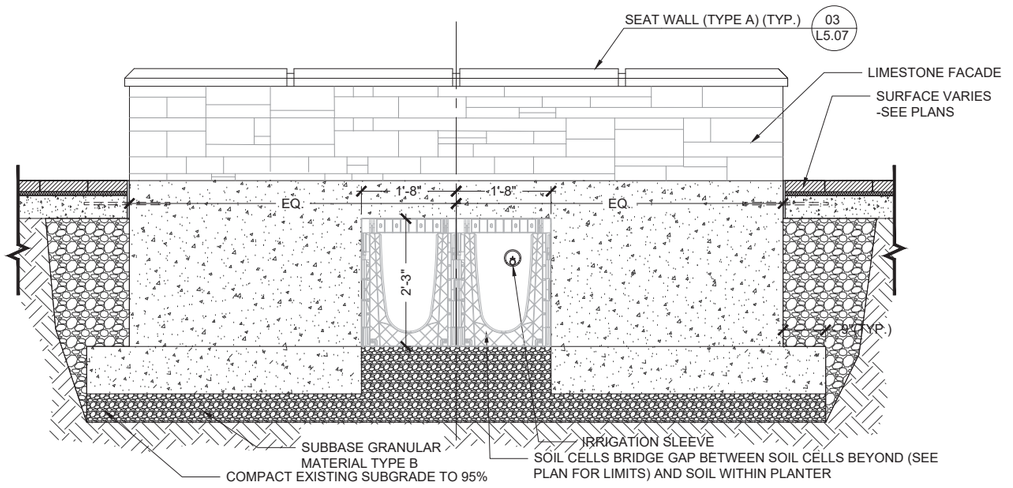
PLANTER SEATWALL DETAILS

SCALE: | SHEET OF SHEETS | STA. TO STA.

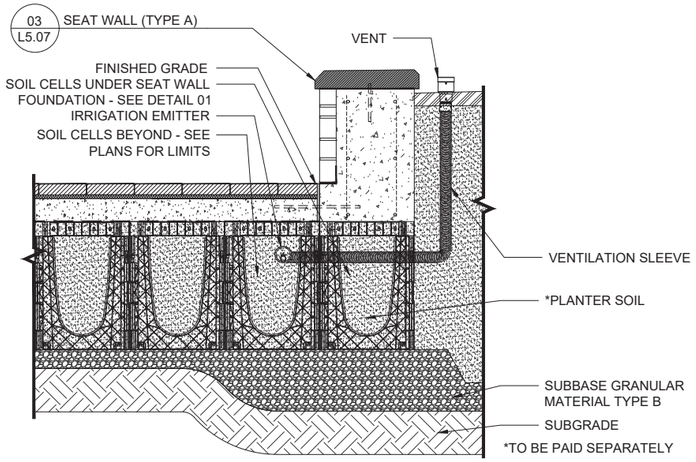
COUNTY	TOTAL SHEETS	SHEET NO.
	224	105

CONTRACT NO.

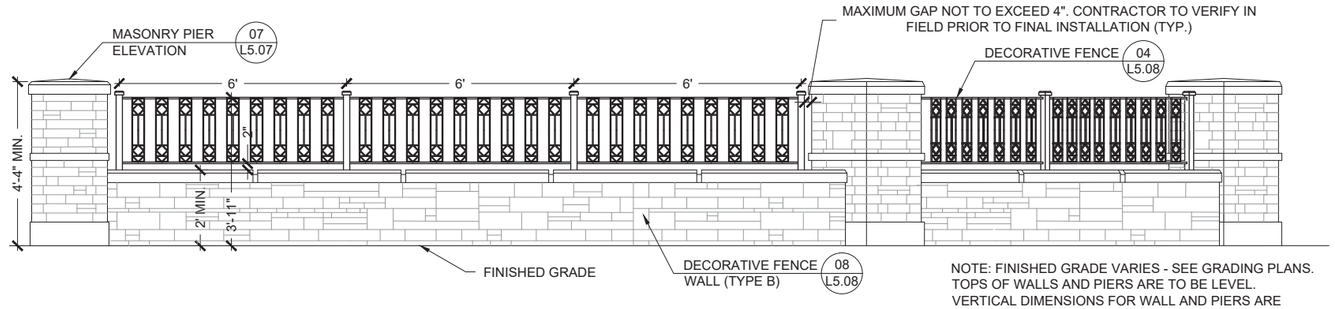
ILLINOIS | FED. AID PROJECT



01 SEAT WALL (WITH SOIL CELLS) - SECTION/ELEVATION
SCALE= 3/4" = 1'-0"

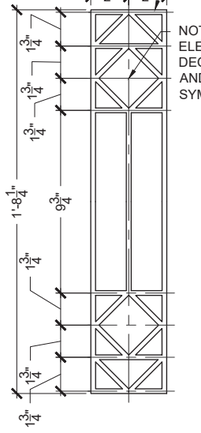


02 SEAT WALL (WITH SOIL CELLS) - SECTION
SCALE= 3/4" = 1'-0"



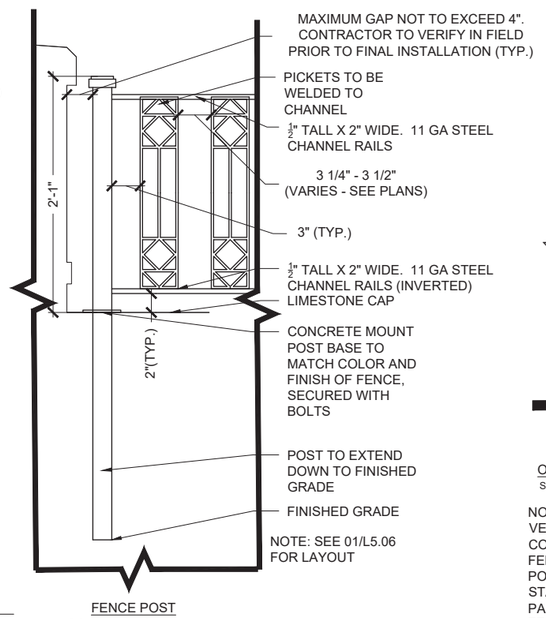
NOTE: FINISHED GRADE VARIES - SEE GRADING PLANS.
TOPS OF WALLS AND PIERS ARE TO BE LEVEL.
VERTICAL DIMENSIONS FOR WALL AND PIERS ARE
MINIMUM HEIGHTS. ACTUAL HEIGHTS WILL VARY
BASED ON FINISHED GRADE

03 DECORATIVE FENCE WALL - ELEVATION
SCALE= 1/2" = 1'-0"



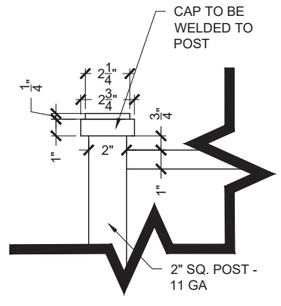
NOTE: DECORATIVE
ELEMENTS ON 45 DEGREE
ANGLES AND
CENTERED/SYMMETRICAL -
(TYP.)

DECORATIVE FENCE PANEL
SCALE = 3" = 1'-0"



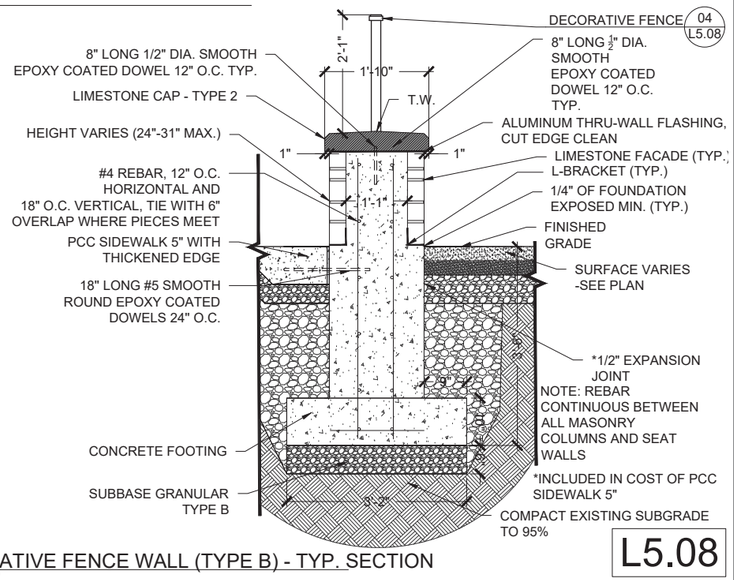
FENCE POST
SCALE = 1 1/2" = 1'-0"

04 DECORATIVE FENCE
SCALE= 1" = 1'-0"



ORNAMENTAL FENCE POST FINIAL
SCALE= 3" = 1'-0"

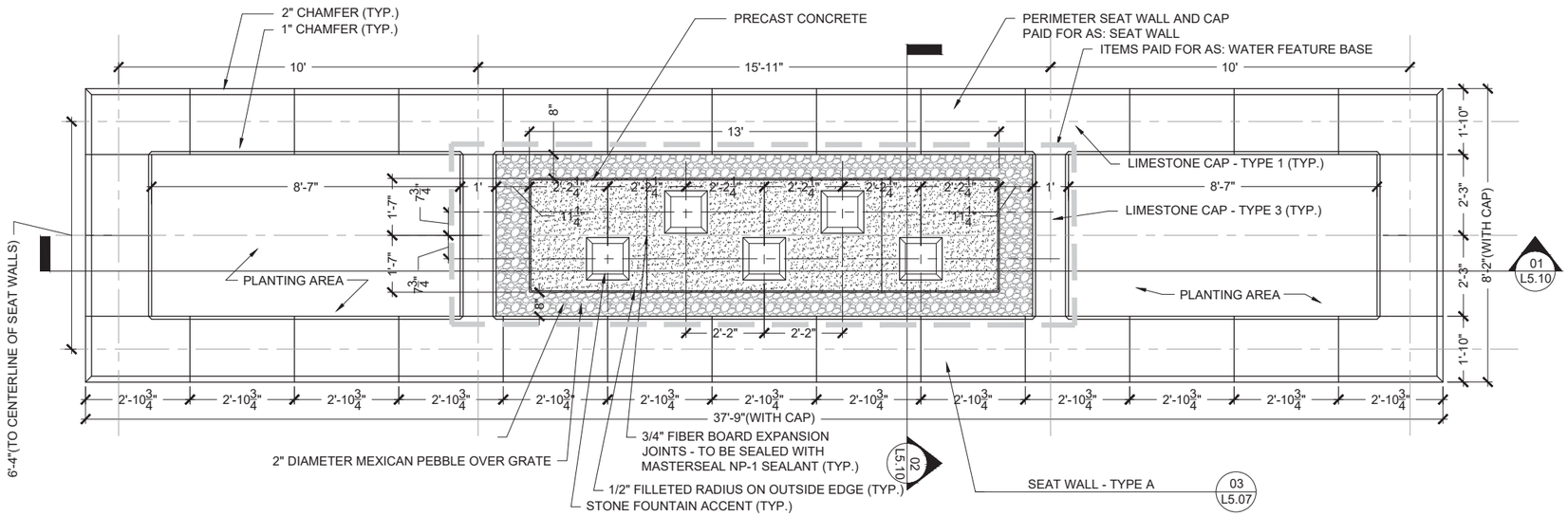
NOTE: CONTRACTOR TO FIELD VERIFY POST LOCATIONS PRIOR TO CONSTRUCTION. DECOm RATIVE FENCE PANELS TO BE SECURED TO POSTS WITH TAMPER RESISTANT STAINLESS STEEL HARDWARE, PAINTED TO MATCH FINISH OF FENCE.



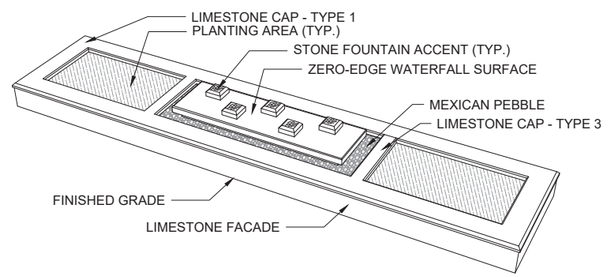
05 DECORATIVE FENCE WALL (TYPE B) - TYP. SECTION
3/4" = 1' - 0"

L5.08

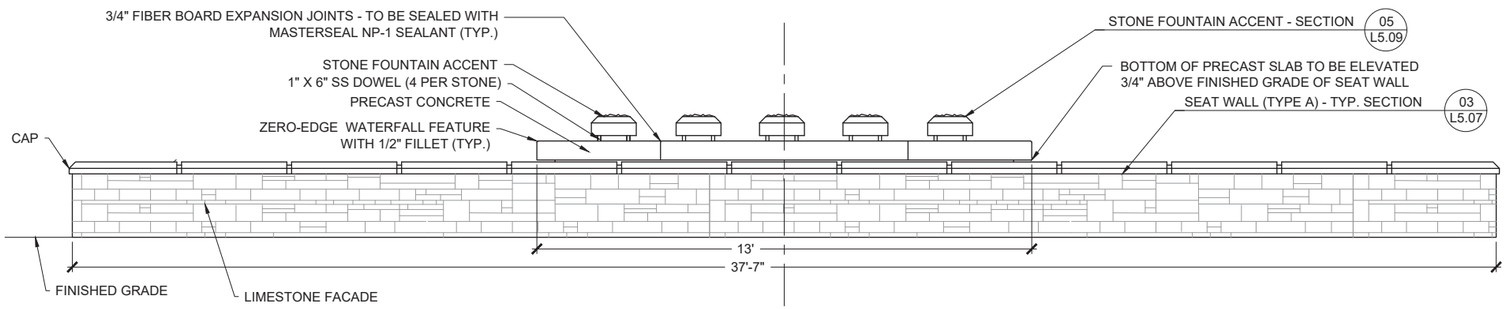
CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET	PLANTER SEATWALL DETAILS	COUNTY	TOTAL SHEETS 224 / SHEET NO. 106
		DRAWN - JDM, MA	REVISED -				
		CHECKED - PJH	REVISED -			CONTRACT NO.	
		DATE - 4/26/2024	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	ILLINOIS	FED. AID PROJECT

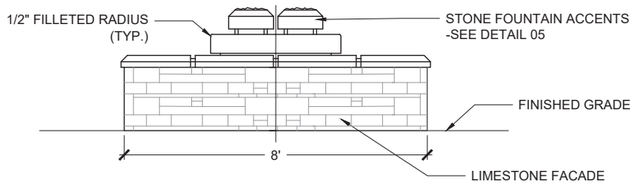


01 WATER FEATURE PLANTER - PLAN VIEW LAYOUT
1/2" = 1' - 0"

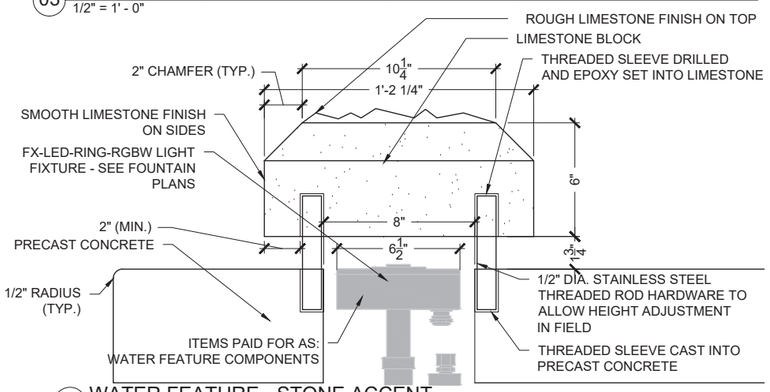


02 WATER FEATURE PLANTER - PERSPECTIVE
NTS

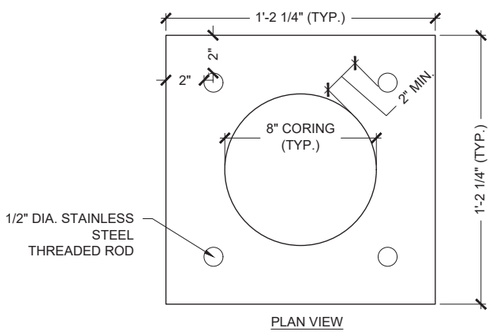




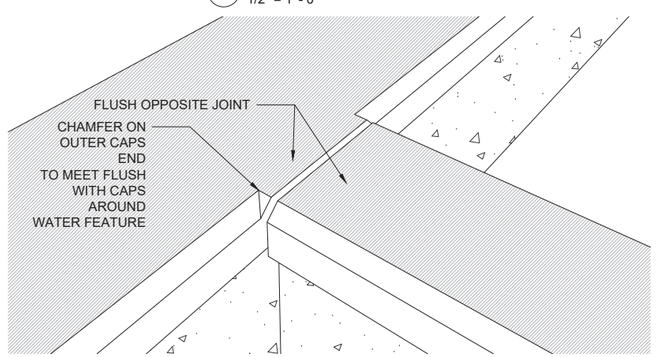
03 WATER FEATURE PLANTER - FRONT ELEVATION
1/2" = 1' - 0"



05 WATER FEATURE - STONE ACCENT
3" = 1' - 0"



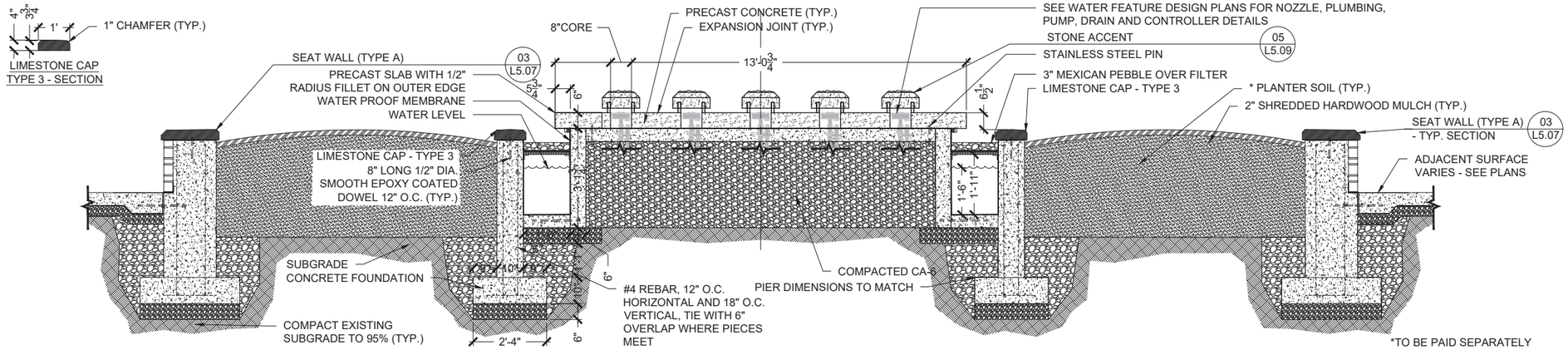
04 WATER FEATURE PLANTER - SIDE ELEVATION
1/2" = 1' - 0"



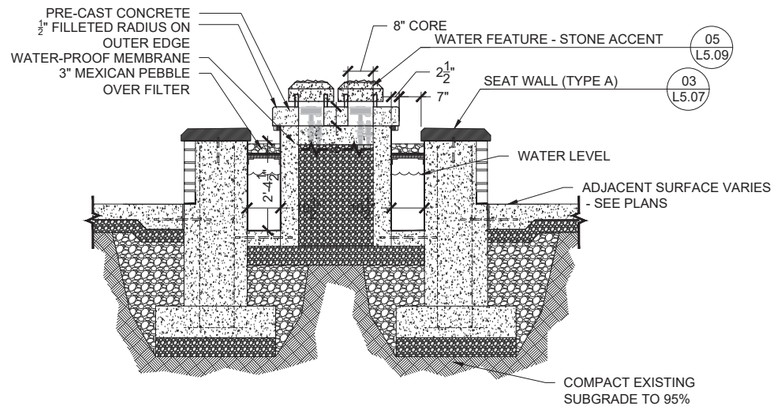
06 WATER FEATURE PLANTER - SEAT WALL CAP CONNECTION
NTS

L5.09

CIVILTECH	DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET
	DRAWN - JDM, MA	REVISED -	SEAT WALL WATER FEATURE PLANTER
	CHECKED - PJH	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.
	DATE - 4/26/2024	REVISED -	COUNTY / TOTAL SHEETS 224 / SHEET NO. 107 / CONTRACT NO. / ILLINOIS FED. AID PROJECT



01 WATER FEATURE PLANTER - SECTION A
1/2" = 1' - 0"



02 WATER FEATURE PLANTER - SECTION B
1/2" = 1' - 0"

L5.10

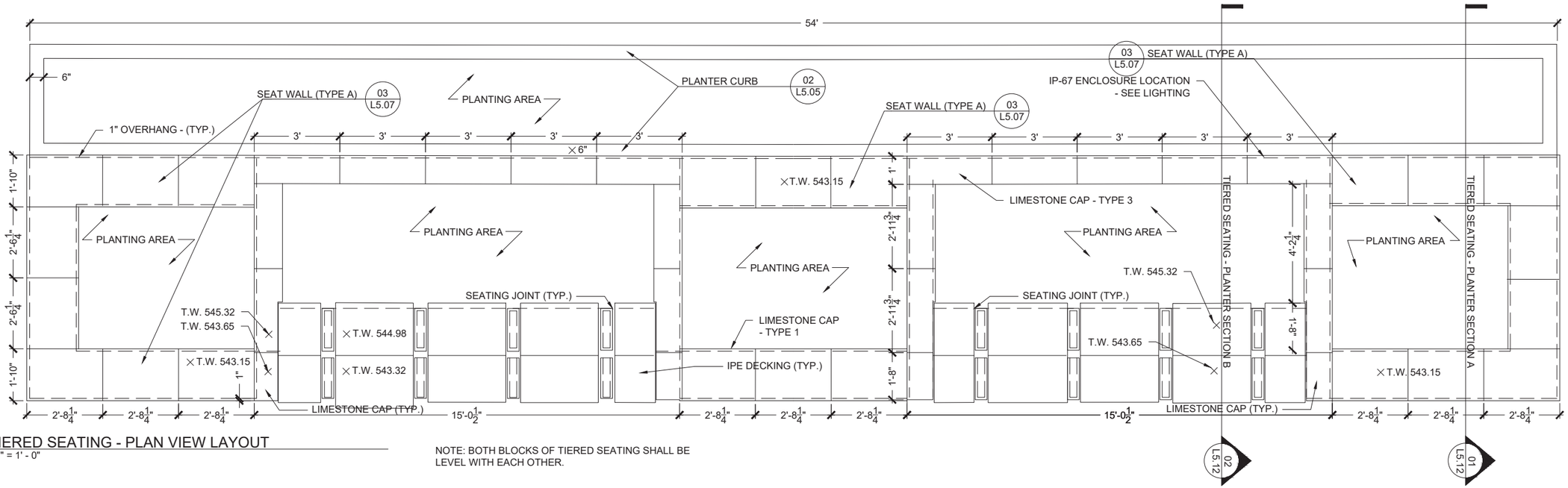
CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -
		DRAWN - JDM, MA	REVISED -
		CHECKED - PJH	REVISED -
		DATE - 4/26/2024	REVISED -

CITY OF JOLIET

FOUNTAIN PUMP DETAILS

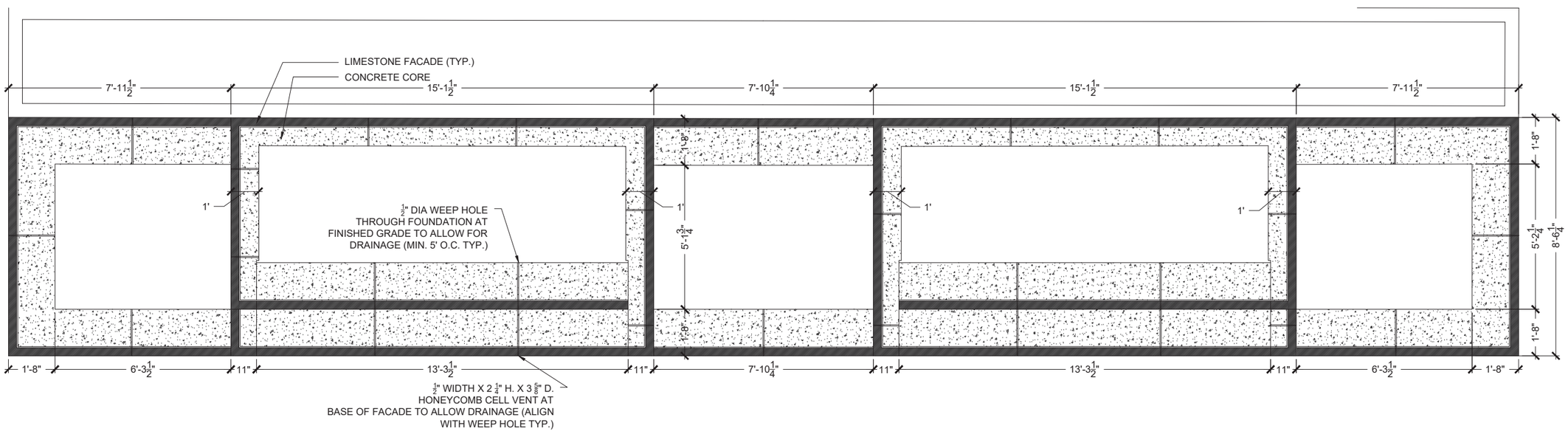
SCALE: | SHEET OF SHEETS | STA. TO STA.

		COUNTY	TOTAL SHEETS	SHEET NO.
			224	108
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	



01 TIERED SEATING - PLAN VIEW LAYOUT
1/2" = 1' - 0"

NOTE: BOTH BLOCKS OF TIERED SEATING SHALL BE LEVEL WITH EACH OTHER.



02 TIERED SEATING - CORE LAYOUT
1/2" = 1' - 0"

L5.11

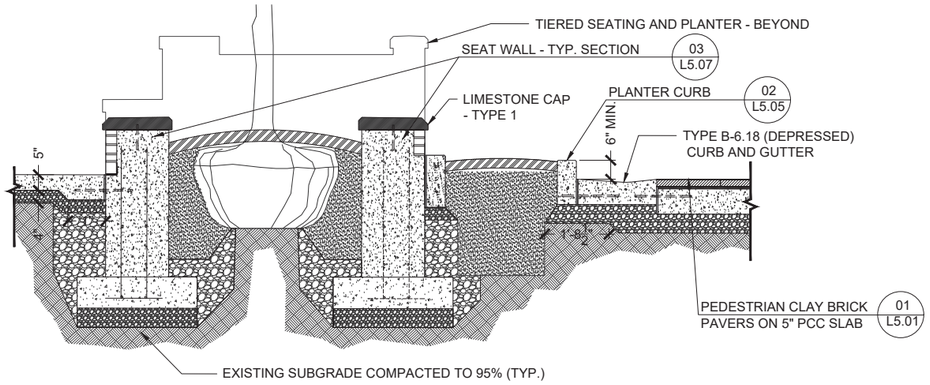
CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -
		DRAWN - JDM, MA	REVISED -
		CHECKED - PJH	REVISED -
		DATE - 4/26/2024	REVISED -

CITY OF JOLIET

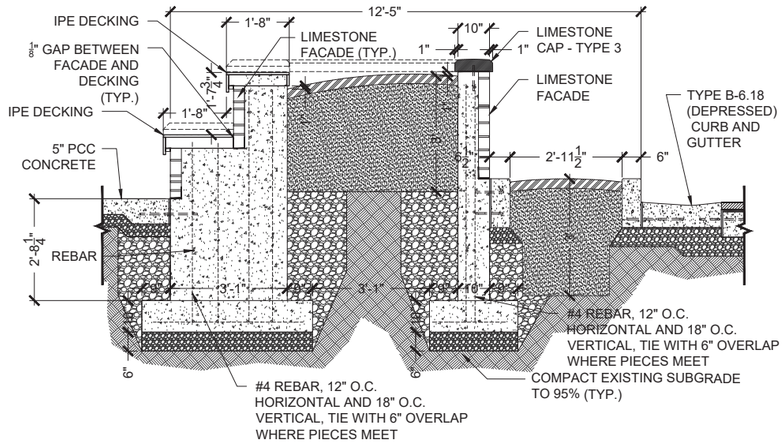
PLANTER HARDSCAPE DETAILS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

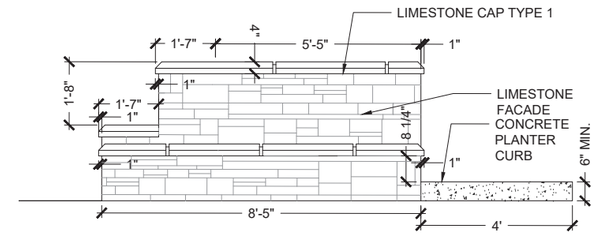
		COUNTY	TOTAL SHEETS	SHEET NO.
			224	109
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	



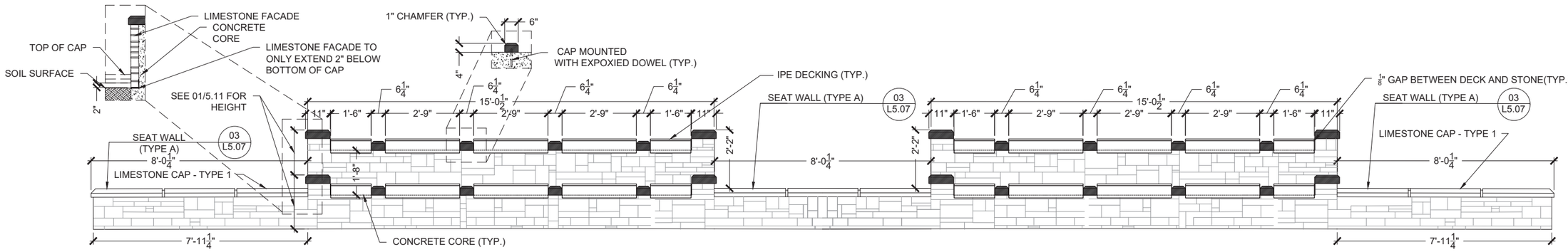
01 TIERED SEATING - PLANTER SECTION A
1/2" = 1' - 0"



02 TIERED SEATING - PLANTER SECTION B
1/2" = 1' - 0"



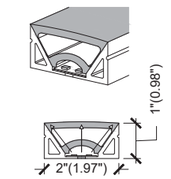
03 TIERED SEATING - ELEVATION SIDE
1/2" = 1' - 0"



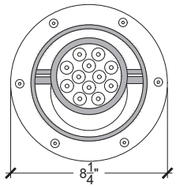
04 TIERED SEATING - PLANTER ELEVATION FRONT
1/2" = 1' - 0"

L5.12

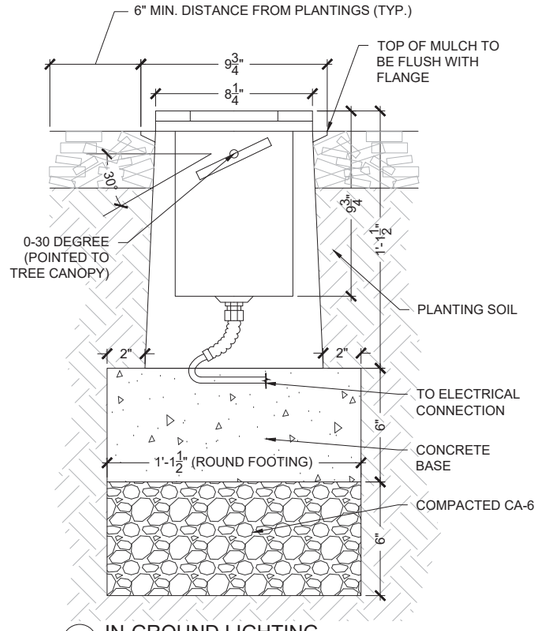
CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET	PLANTER HARDSCAPE DETAILS	COUNTY	TOTAL SHEETS 224 / SHEET NO. 110
		DRAWN - JDM, MA	REVISED -				CONTRACT NO.
		CHECKED - PJH	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS	FED. AID PROJECT
		DATE - 4/26/2024	REVISED -				



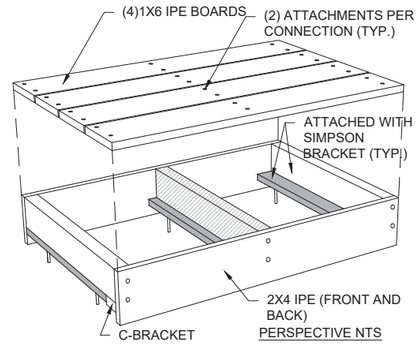
01 LED STRIP LIGHTING
6" = 1'-0"



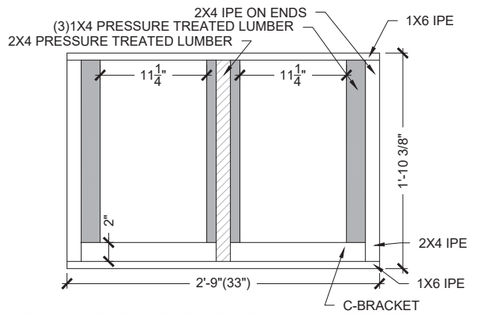
PLAN



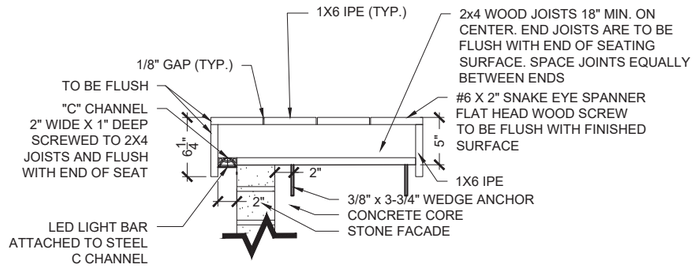
02 IN-GROUND LIGHTING
3" = 1'-0"



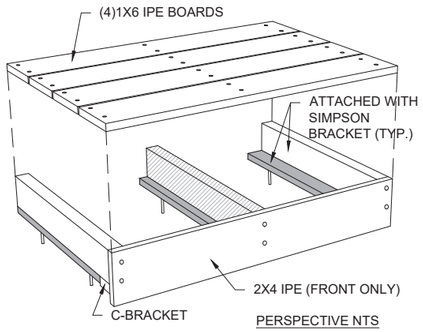
PERSPECTIVE NTS



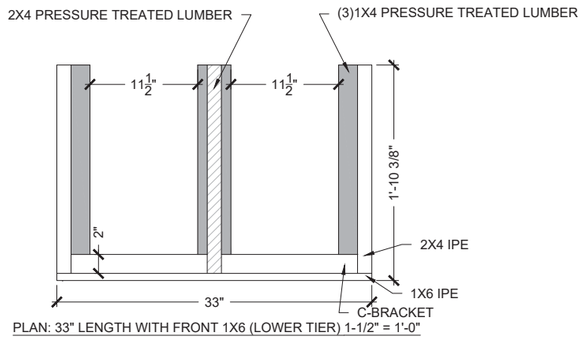
PLAN: 33" LENGTH WITH FRONT AND BACK 1X6 (UPPER TIER) 1-1/2" = 1'-0"



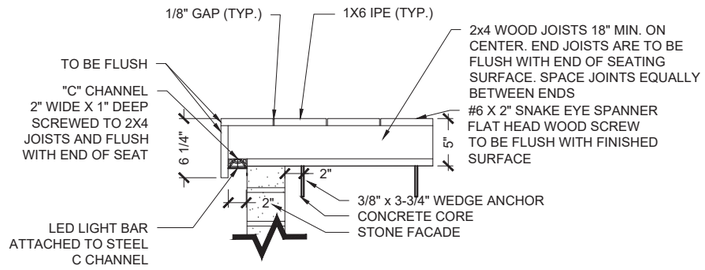
06 TIERED SEAT DECKING ELEVATION (UPPER TIER)
SCALE AS INDICATED



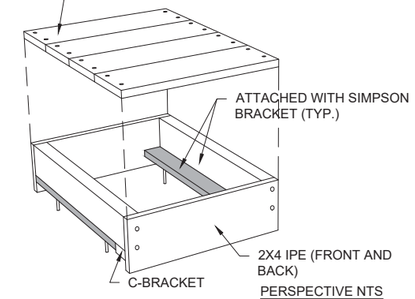
PERSPECTIVE NTS



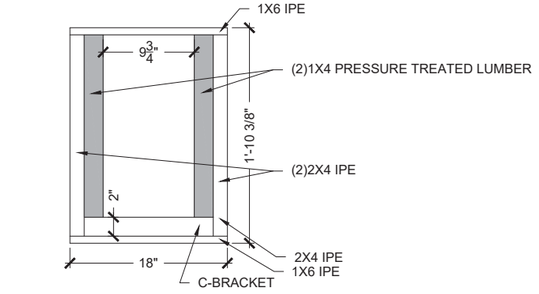
PLAN: 33" LENGTH WITH FRONT 1X6 (LOWER TIER) 1-1/2" = 1'-0"



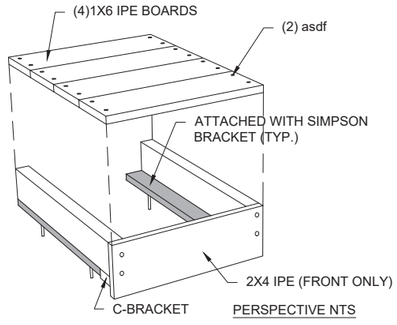
07 TIERED SEAT DECKING ELEVATION (LOWER TIER)
SCALE AS INDICATED



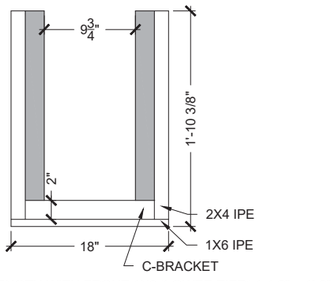
PERSPECTIVE NTS



PLAN: 18" LENGTH WITH FRONT AND BACK 1X6 (UPPER TIER) 1-1/2" = 1'-0"



PERSPECTIVE NTS

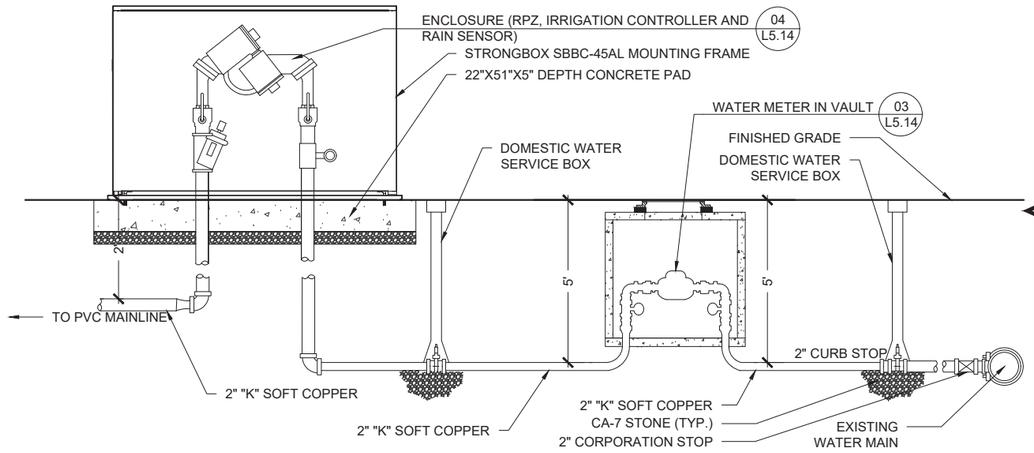


PLAN: 18" LENGTH WITH FRONT 1X6 (LOWER TIER) 1-1/2" = 1'-0"

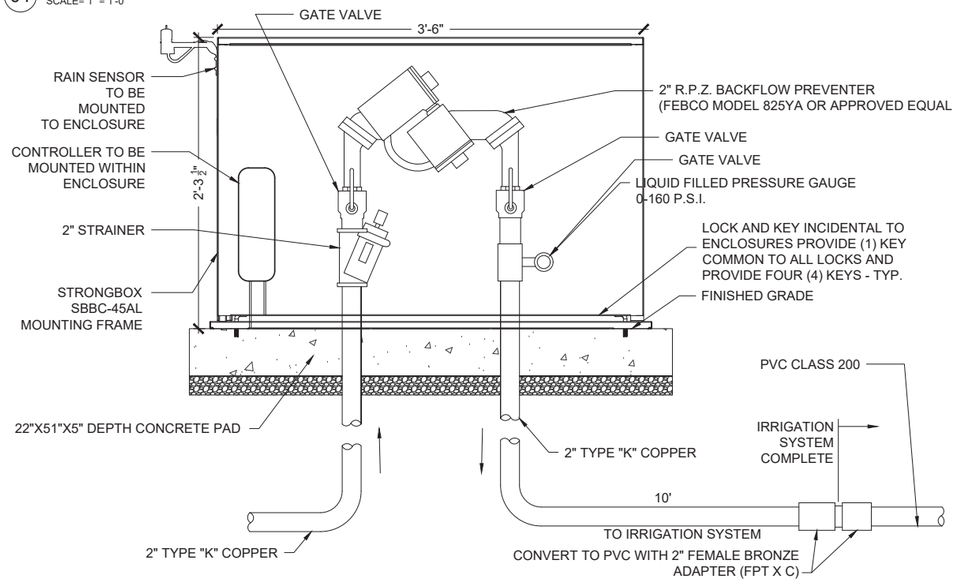
03 TIERED SEAT DECKING
SCALE AS INDICATED

L5.13

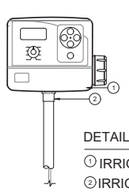
CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET	LANDSCAPE LIGHTING		COUNTY / TOTAL SHEETS 224 / SHEET NO. 111
		DRAWN - JDM, MA	REVISED -				CONTRACT NO.
		CHECKED - PJH	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.		ILLINOIS / FED. AID PROJECT
		DATE - 4/26/2024	REVISED -				



01 WATER MAIN CONNECTION
SCALE= 1" = 1'-0"



04 ENCLOSURE (RPZ, IRRIGATION CONTROLLER AND RAIN SENSOR)
NTS



NOTES:

A. MOUNT CONTROLLER WITH LCD SCREEN FACING OUTWARDS

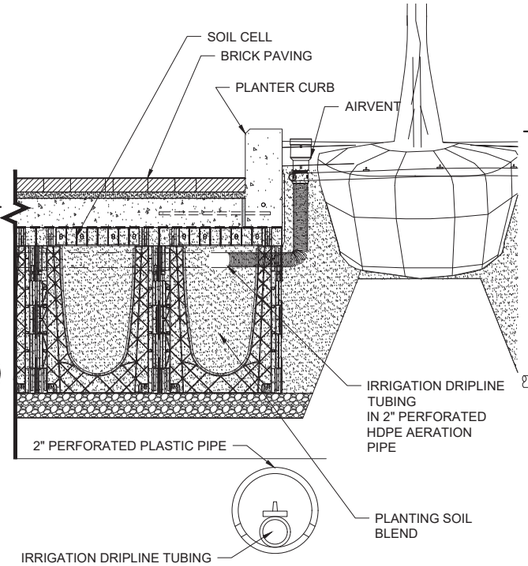
B. 4, 6, OR 8 STATION MODEL CONTROLLER, PER PLAN LAYOUT

DETAIL LEGEND:

① IRRIGATION CONTROLLER (DDCWP) PER PLAN

② IRRIGATION CONTROL WIRE IN CONDUIT. SIZE AND TYPE PER LOCAL CODES

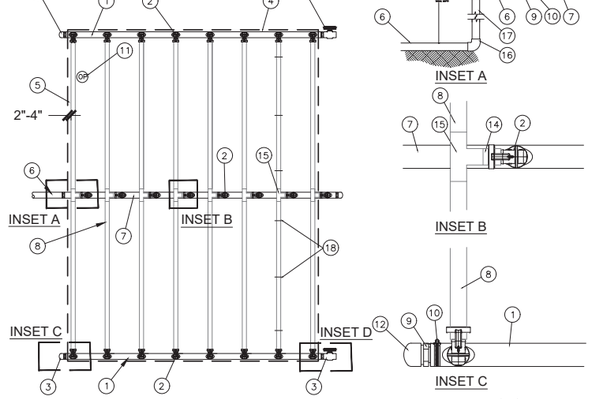
05 IRRIGATION CONTROLLER; TORO DDCWP-6-9V CONTROLLER WITH RFS-1000 RAIN SENSOR
NTS



PIPE DETAIL

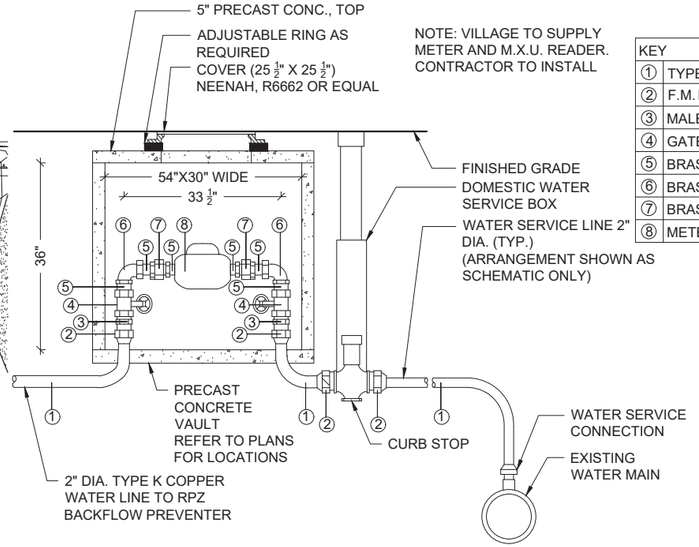
NOTE: IRRIGATION DRIPLINE TUBING PLACED IN PERFORATED PIPE. PERFORATED PIPE DRAINAGE HOLES TO FACE DOWNWARD. USE ONLY LONG SWEEP 90 DEGREE OR 45 DEGREE FITTINGS TO FACILITATE THE INSTALLATION AND MAINTENANCE OF THE DRIPLINE TUBING. PLACE PERFORATED PIPE JUST BELOW THE TOP OF SOIL WITHIN SOIL CELL

02 SOIL CELL IRRIGATION
NTS



NOTES:

1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.



NOTE: VILLAGE TO SUPPLY METER AND M.X.U. READER. CONTRACTOR TO INSTALL

KEY	
①	TYPE K COPPER
②	F.M. FLARED FITTING
③	MALE I.P.T. TO FLARED
④	GATE VALVE
⑤	BRASS NIP
⑥	BRASS ELL
⑦	BRASS UNION
⑧	METER

03 WATER METER IN VAULT
NTS

① QF-FLUSH HEADER
② PRE-INSTALLED BARB FITTING
③ FLUSH POINT WITH PVC CAP OR OPTIONAL PVC BALL VALVE
④ PERIMETER OF AREA
⑤ PERIMETER DRIPLINE PIPE TO BE INSTALLED 2" - 4" FROM PERIMETER OF AREA
⑥ PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
⑦ QF SUPPLY HEADER
⑧ RAIN BIRD XFS SERIES DRIPLINE (TYPICAL)
⑨ MALE ADAPTER INSERT
⑩ STAINLESS STEEL, OETIKER OR MURRAY CLAMP
⑪ OPERATION INDICATOR RAIN BIRD MODEL: OPERIND
⑫ PVC SCH 40 CAP
⑬ PVC SCH 40 BALL VALVE
⑭ RAIN BIRD XF SERIES BLANK TUBING
⑮ BARB X BARB INSERT TEE: RAIN BIRD XFF-TEE (TYPICAL)
⑯ PVC SCH 40 ELL (TYPICAL)
⑰ PVC SCH 40 RISER PIPE
⑱ XF SERIES TIE-DOWN STAKES (TDS-050) REFER TO RAIN BIRD DRIPLINE DESIGN GUIDE FOR PROPER SPACING

LENGTH OF RUN CHART (FEET)

	EMITTER FLOW RATE (GPH)			
	0.58	0.58	0.92	0.92
	EMITTER SPACING (INCHES)			
INLET PRESSURE (PSI)	12 IN	18 IN	12 IN	18 IN
15	169	236	125	175
20	230	323	171	239
25	270	379	200	282
30	301	424	222	314
35	327	460	242	341
40	349	492	258	364
45	369	521	273	386
50	387	547	286	405
55	404	570	299	422
60	420	593	310	439

06 DRIP IRRIGATION TYPICAL LAYOUT
SCALE= 1" = 1'-0"

L5.14

CIVILTECH

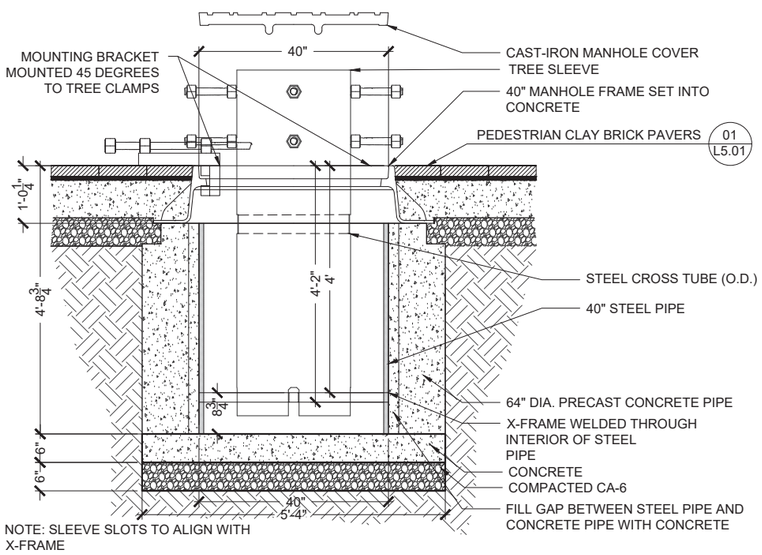
	DESIGNED - PJH, JDM, MA	REVISED -	
	DRAWN - JDM, MA	REVISED -	
	CHECKED - PJH	REVISED -	
	DATE - 4/26/2024	REVISED -	

CITY OF JOLIET

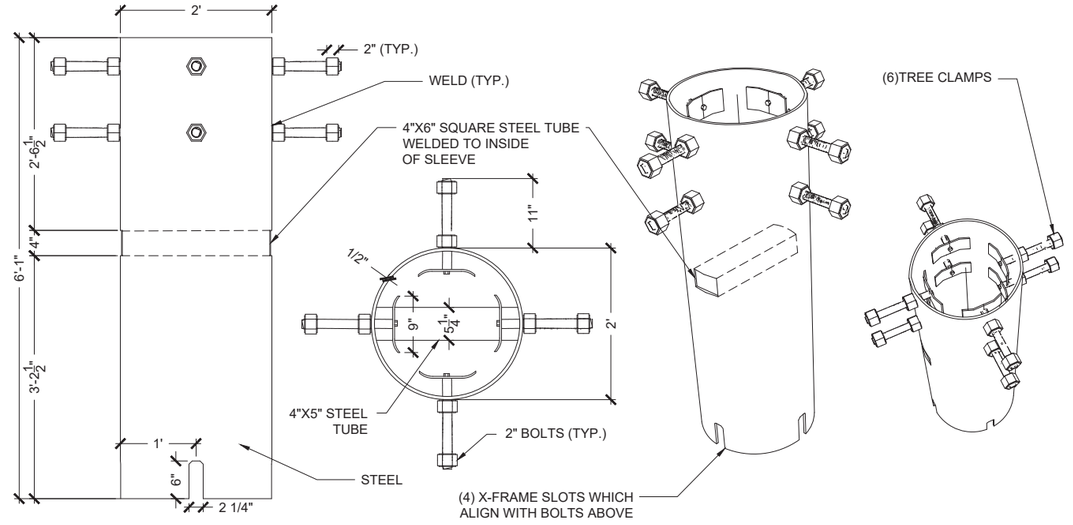
IRRIGATION DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

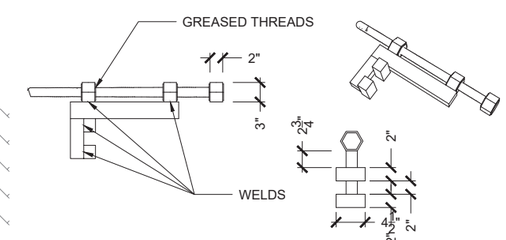
		COUNTY	TOTAL SHEETS	SHEET NO.
			224	112
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	



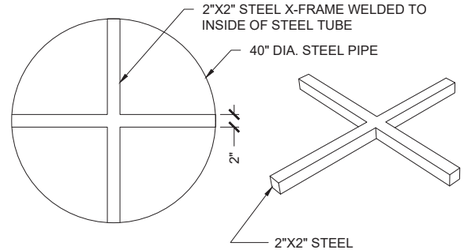
01 HOLIDAY TREE MANHOLE - SECTION
SCALE= 3/4" = 1'-0"



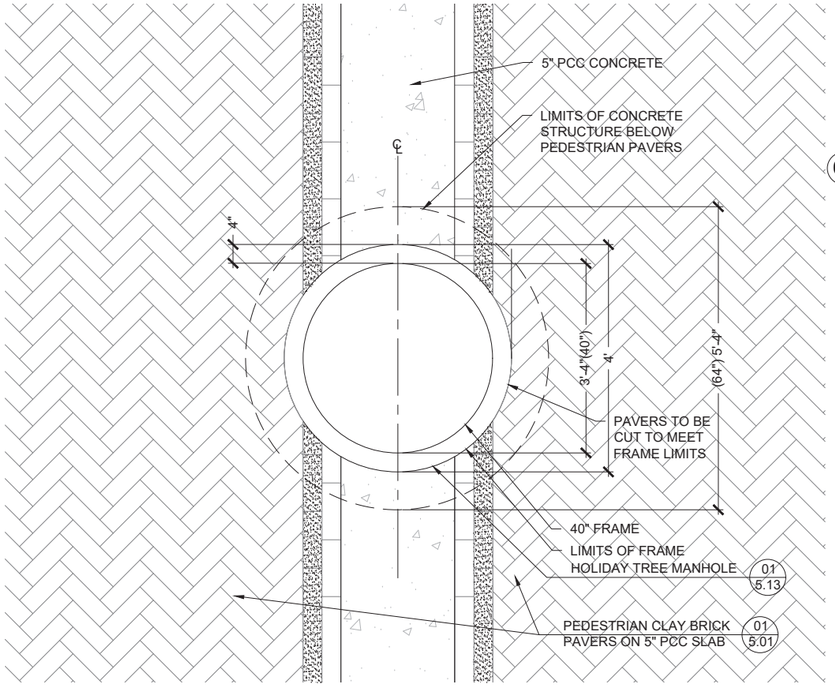
02 HOLIDAY TREE SLEEVE
1" = 1' - 0"



03 HOLIDAY TREE MOUNTING BRACKET
1" = 1' - 0"



04 HOLIDAY TREE X-FRAME
1" = 1' - 0"



05 HOLIDAY TREE MANHOLE - PLAN VIEW
SCALE= 3/4" = 1'-0"

L5.15

CIVILTECH

	DESIGNED - PJH, JDM, MA	REVISED -	
	DRAWN - JDM, MA	REVISED -	
	CHECKED - PJH	REVISED -	
	DATE - 4/26/2024	REVISED -	

CITY OF JOLIET

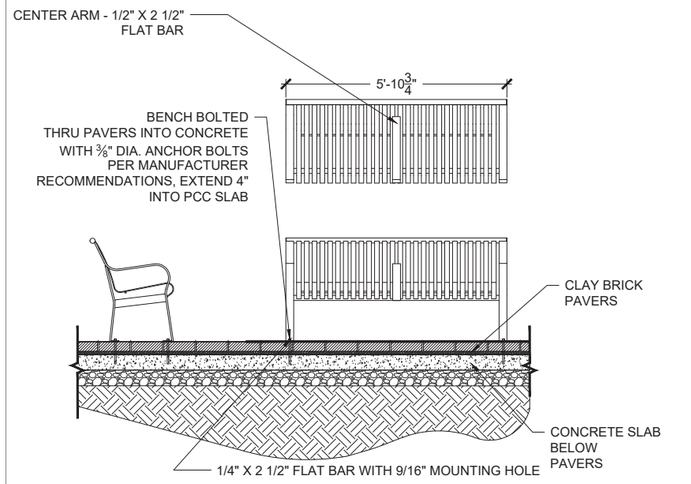
HOLIDAY TREE BRACKET

SCALE: | SHEET OF SHEETS | STA. | TO STA.

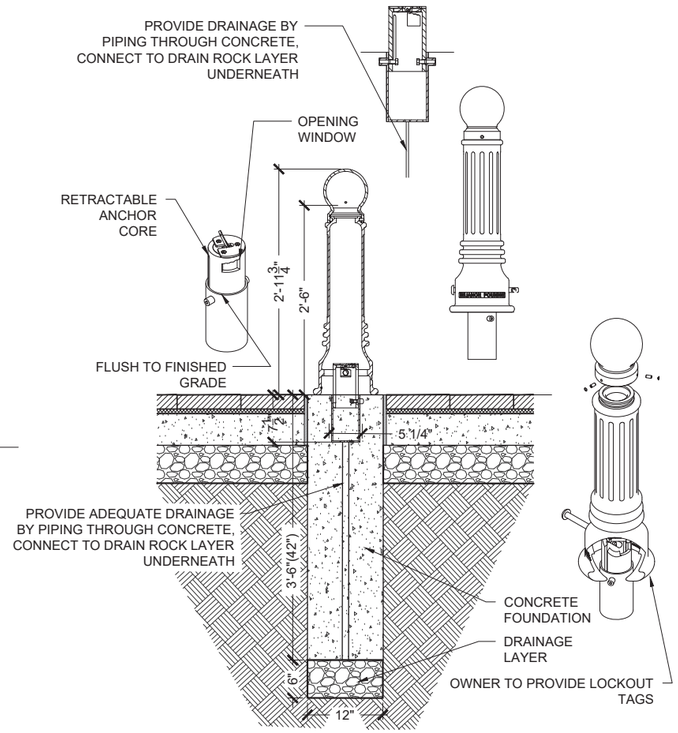
COUNTY	TOTAL SHEETS	SHEET NO.
	224	113

CONTRACT NO.

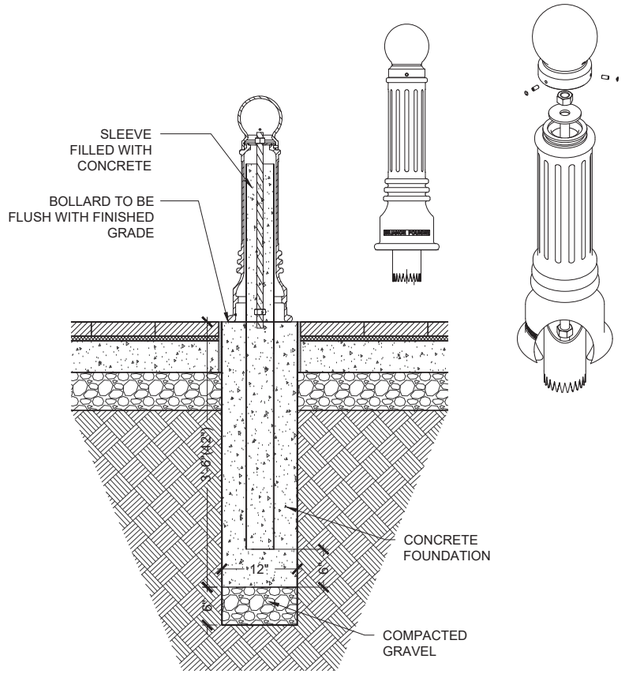
ILLINOIS | FED. AID PROJECT



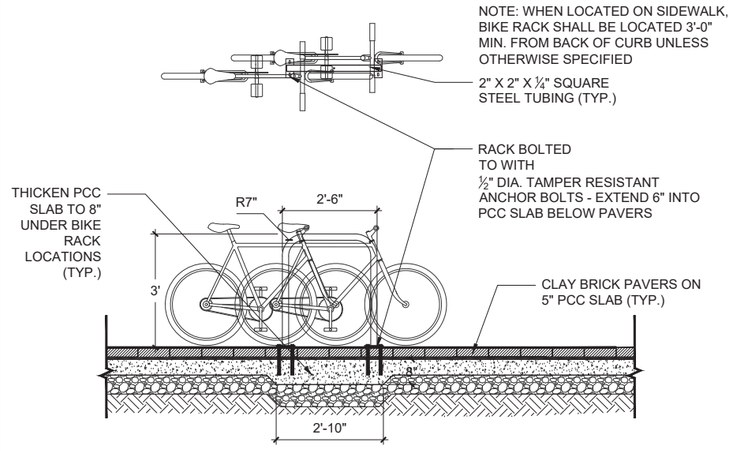
01 METAL BENCH - PLAN AND SECTION
SCALE= NTS



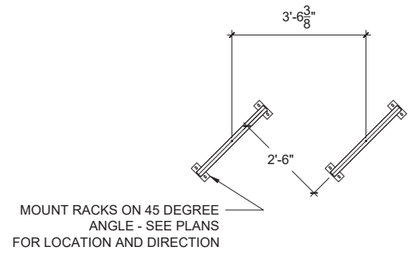
02 BOLLARD - REMOVABLE
1" = 1' - 0"



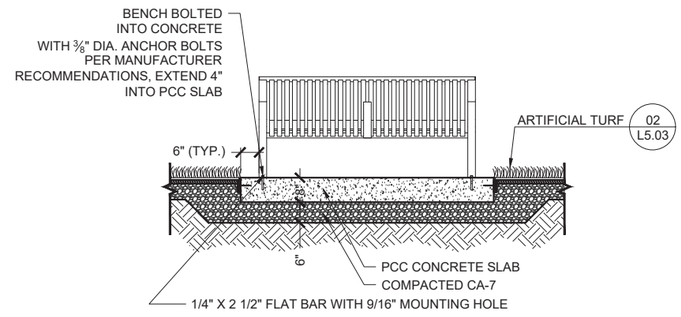
03 BOLLARD - FIXED FOUNDATION
1" = 1' - 0"



04 BIKE RACK PLAN AND SECTION
SCALE= ½" = 1'-0"



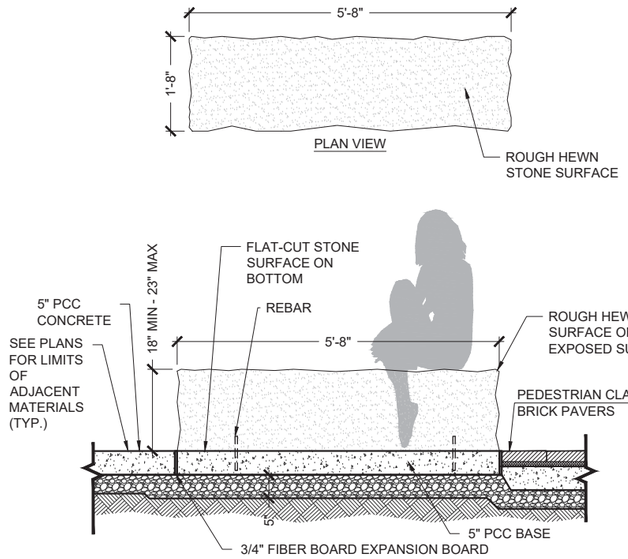
05 BIKE RACK PAVER LAYOUT
SCALE= 1/2" = 1'-0"



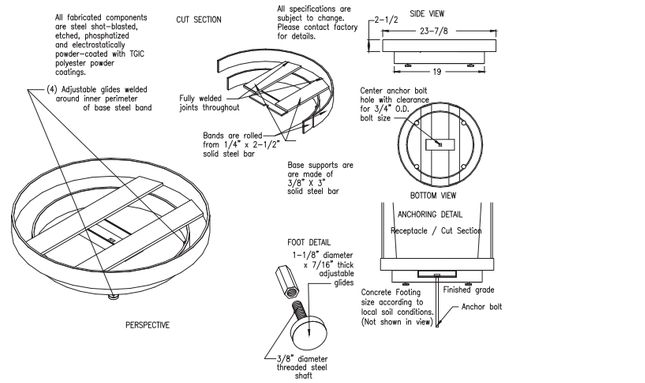
06 METAL BENCH (WITHIN FAMILY GATHERING AREA) SECTION
SCALE= NTS

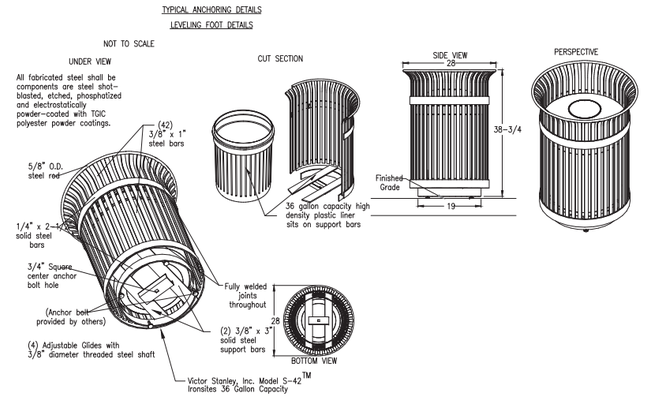
L5.16

CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET	FURNITURE DETAILS	COUNTY	TOTAL SHEETS 224 / SHEET NO. 114
		DRAWN - JDM, MA	REVISED -				
		CHECKED - PJH	REVISED -				
		DATE - 4/26/2024	REVISED -		SCALE: / SHEET OF SHEETS / STA. TO STA.	CONTRACT NO.	ILLINOIS / FED. AID PROJECT

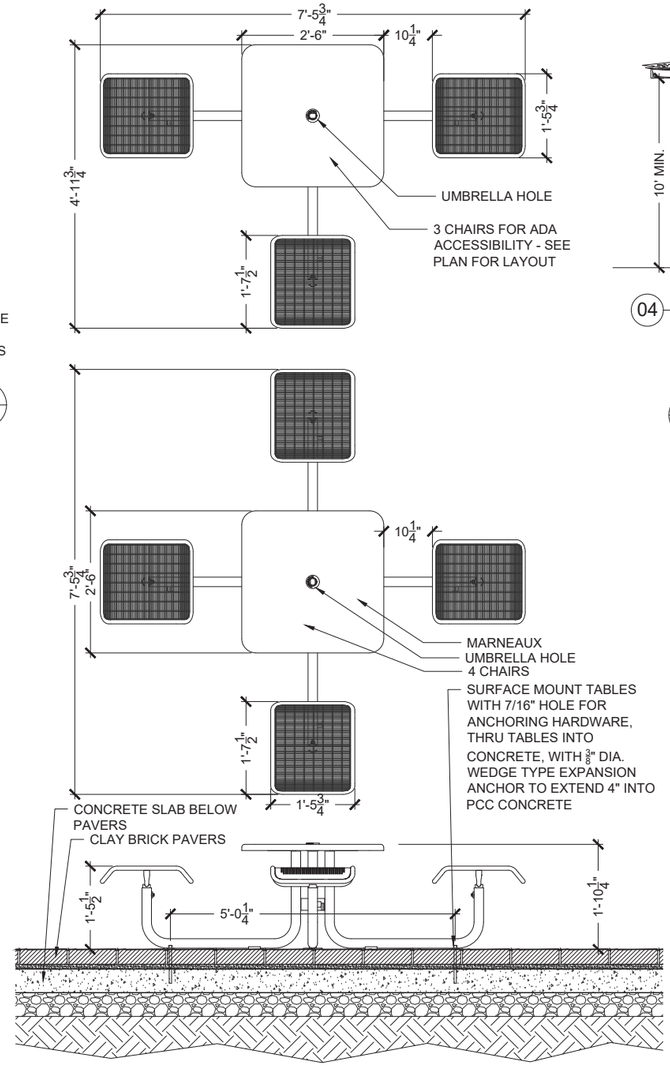


01 LIMESTONE BLOCK SEATING
SCALE= NTS

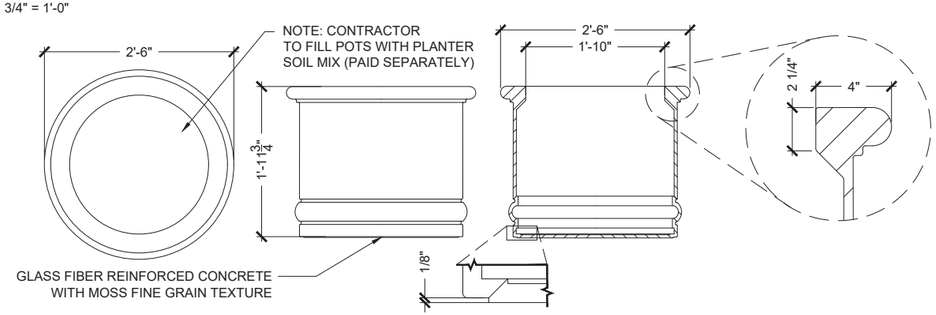




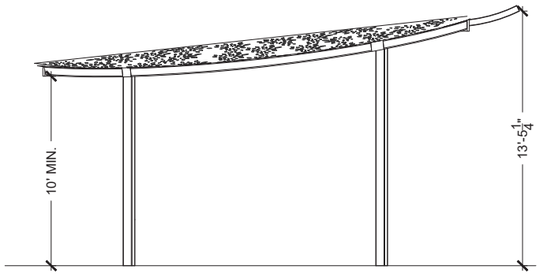
02 TRASH RECEPTACLE
SCALE= NTS



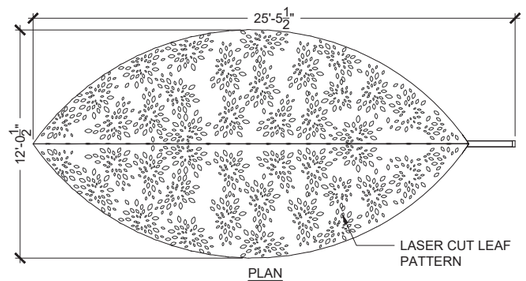
03 METAL TABLES
3/4" = 1'-0"

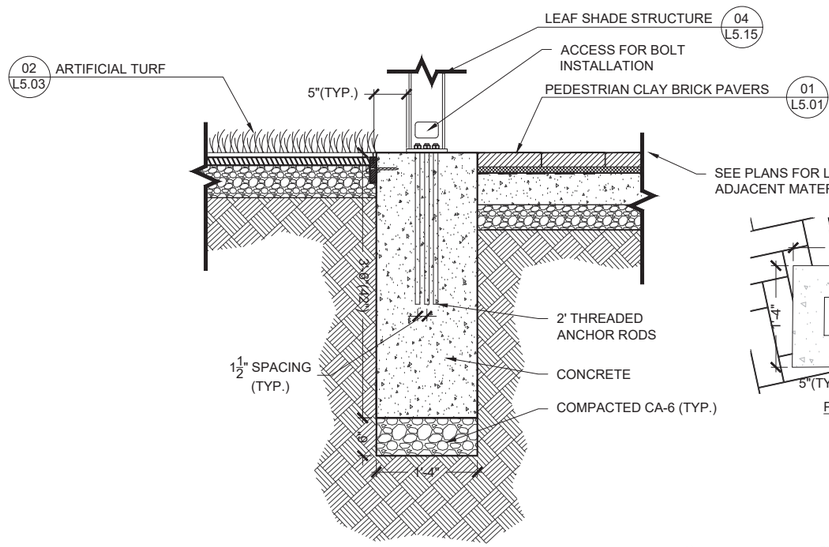


06 FREESTANDING POT - PLAN AND SECTION
1" = 1'-0"

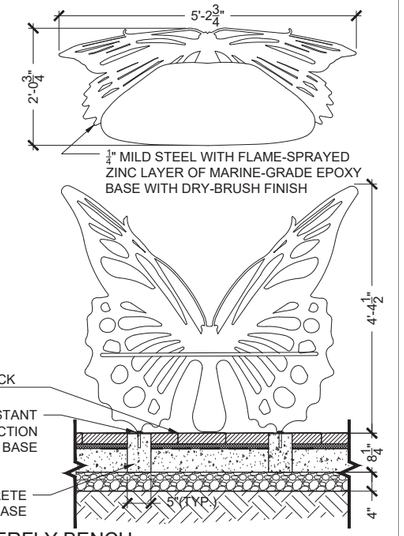


04 LEAF SHADE STRUCTURE - PLAN AND SECTION
SCALE= NTS





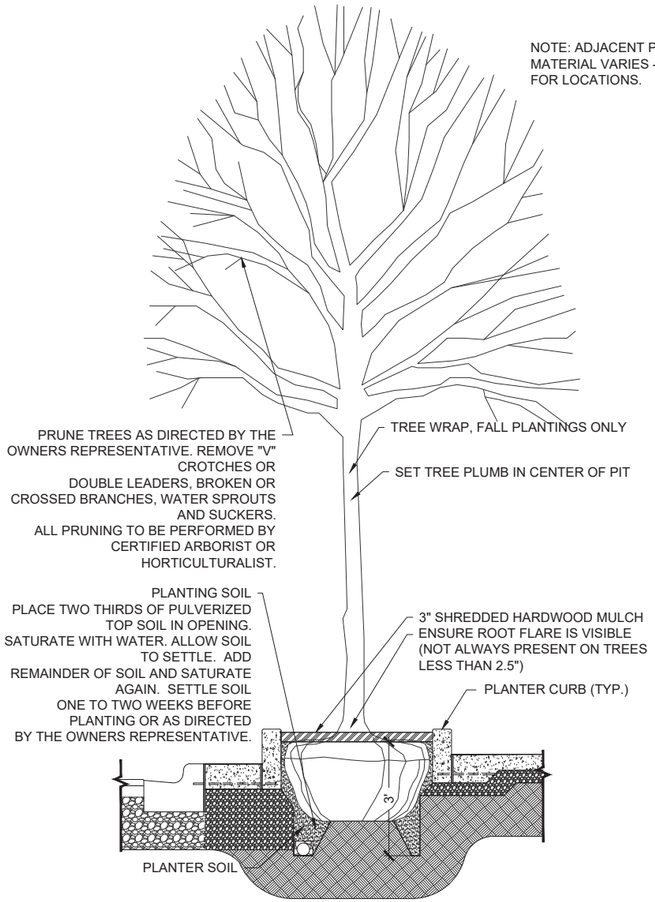
05 LEAF SHADE STRUCTURE BASE
1" = 1' - 0"



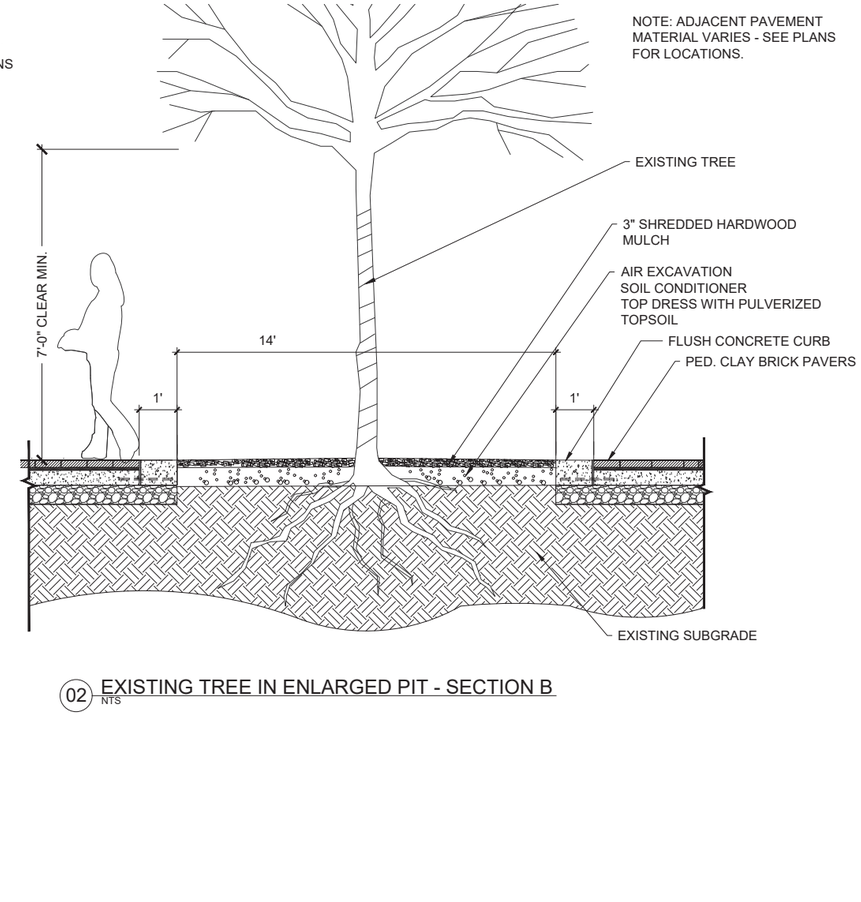
07 BUTTERFLY BENCH
3/4" = 1'-0"

L5.17

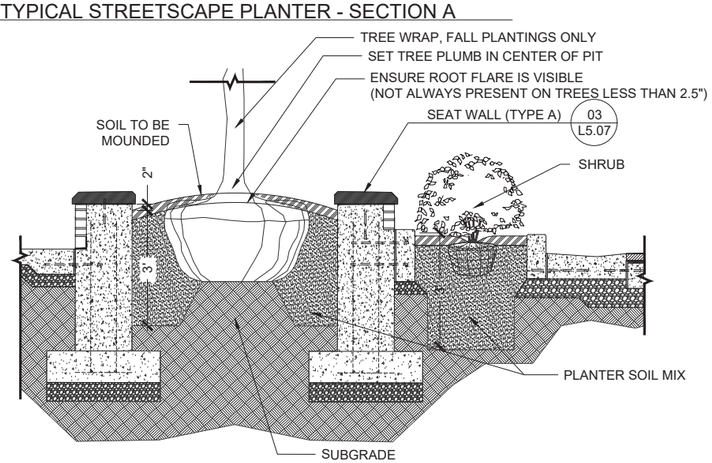
CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET	FURNITURE DETAILS	COUNTY	TOTAL SHEETS 224 / SHEET NO. 115
		DRAWN - JDM, MA	REVISED -				
		CHECKED - PJH	REVISED -			CONTRACT NO.	
		DATE - 4/26/2024	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT	



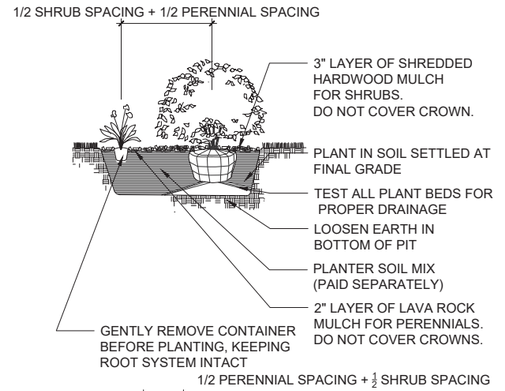
01 TREE PLANTING IN TYPICAL STREETSCAPE PLANTER - SECTION A
NTS



02 EXISTING TREE IN ENLARGED PIT - SECTION B
NTS



05 TREE PLANTING IN RAISED SEAT WALL PLANTER
NTS



03 SHRUB PERENNIAL GRASS PLANTING
SCALE= 1/2" = 1'-0"



04 SHRUB PERENNIAL GRASS - TRIANGULAR SPACING
SCALE= 1/2" = 1'-0"

MASTER PLANT SCHEDULE L5.18

QTY	CODE	BOTANICAL NAME	COMMON NAME	SIZE	MATURE HEIGHT
TREE					
7	ACF	ACER X FREEMANII	FREEMAN MAPLE	2.5"-3" DBH	50-70 FT
2	CAC	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	2.5"-3" DBH	30 FT
6	CEC	CERCIS CANADENSIS	EASTERN REDBUD	2.5"-3" DBH	20-30 FT
8	CEO	CELTIS OCCIDENTALIS	HACKBERRY	2.5"-3" DBH	40-60 FT
3	GYD	GYMNOCLADUS DIOICUS	KENTUCKY COFFEETREE	2.5"-3" DBH	60-80 FT
6	HAV	HAMAMELIS VIRGINIANA	WITCH HAZEL	2" DBH	15-20 FT
5	QUB	QUERCUS BICOLOR	SWAMP WHITE OAK	2.5"-3" DBH	60-80 FT
15	SYR	SYRINGA RETICULATA	JAPANESE TREE LILAC	2" DBH	30 FT
8	TAD	TAXODIUM DISTICHUM	BALD CYPRESS	2.5"-3" DBH	35-120 FT
4	TIA	TILIA AMERICANA	AMERICAN HORNBEAM	2.5"-3" DBH	60-80 FT
7	ULN	ULMUS X DAVIDIANA PUMILA	NEW HORIZON ELM	2.5"-3" DBH	50 FT
SHRUBS					
54	HYQ	HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	#3	6-8 FT
21	SPT	SPIRAEA BETULIFOLIA	TOR SPIREA	#3	2-3 FT
PERENNIALS					
124	ALT	ALLIUM TANGUTICUM	SUMMER BEAUTY CHIVES	1 GAL	1-1.5 FT
34	DAC	DALEA CANDIDA	WHITE PRAIRIE CLOVER	1 GAL	1-2 FT
158	ECM	ECHINACEA PURPUREA 'MAGNUS'	MAGNUS CONEFLOWER	1 GAL	2-3 FT
96	HEA	HEMEROCALLIS 'CHICAGO APACHE'	CHICAGO APACHE DAYLILY	1 GAL	2 FT
63	HEH	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	1 GAL	1.5 FT
277	KOM	KOELERIA MACRANTHA	JUNE GRASS	1 GAL	2 FT
234	LOC	LOBELIA CARDINALIS	CARDINAL FLOWER	1 GAL	3 FT
71	PED	PENSTEMON DIGITALIS	FOXGLOVE BEARDTONGUE	1 GAL	3 FT
13	RUH	RUELLIA HUMILIS	WILD PETUNIA	1 GAL	2 FT
96	RUI	RUDBECKIA HIRTA	BLACK EYED SUSAN	1 GAL	2-3 FT
93	SAN	SALVIA NEMEROSA	CARADONNA SAGE	1 GAL	1.5-2 FT
225	SEK	SEDUM KAMTSCHATICUM	RUSSIAN SEDUM	1 PINT	0.5 FT

L5.18

CIVILTECH

DESIGNED - PJH, JDM, MA	REVISED -	
DRAWN - JDM, MA	REVISED -	
CHECKED - PJH	REVISED -	
DATE - 4/26/2024	REVISED -	

CITY OF JOLIET

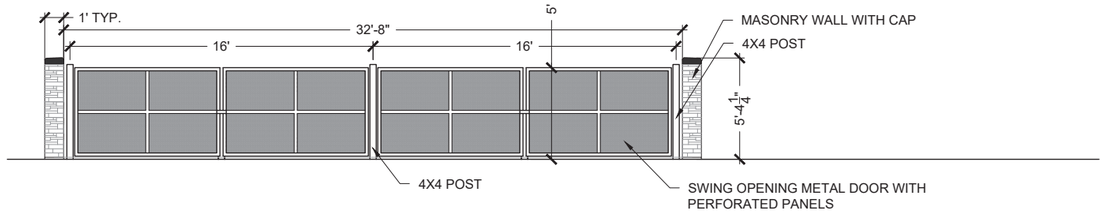
LANDSCAPE DETAILS
PLANTING

SCALE: | SHEET OF SHEETS | STA. | TO STA.

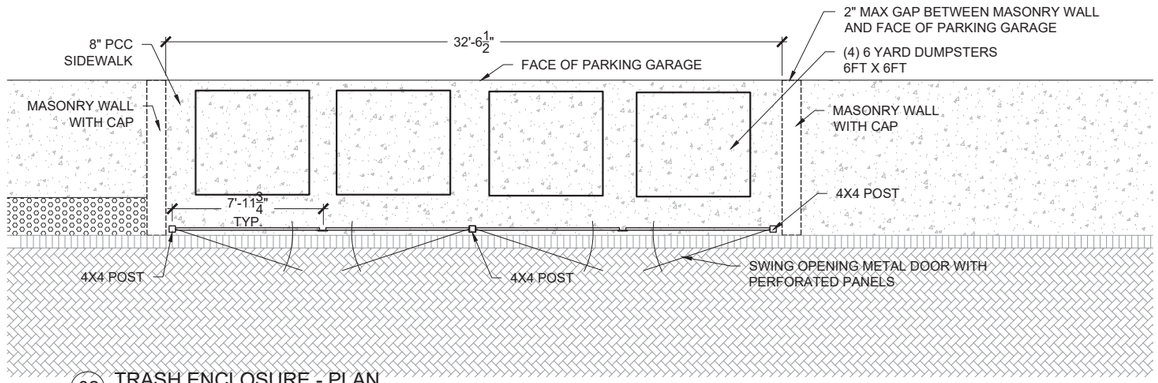
COUNTY	TOTAL SHEETS	SHEET NO.
	224	116

CONTRACT NO.

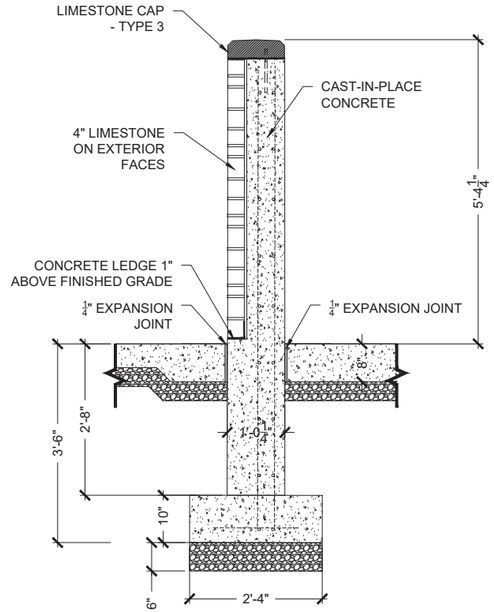
ILLINOIS | FED. AID PROJECT



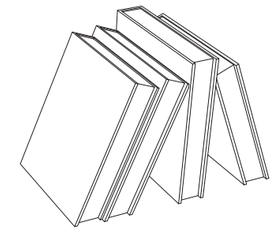
01 TRASH ENCLOSURE - ELEVATION
NTS



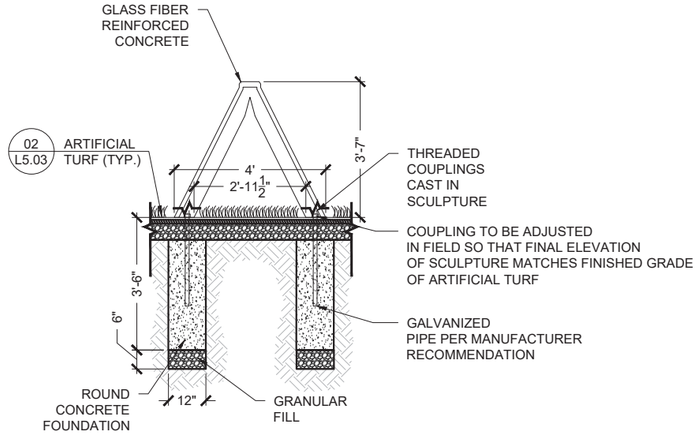
02 TRASH ENCLOSURE - PLAN
NTS



03 TRASH ENCLOSURE MASONRY WALL - SECTION
NTS

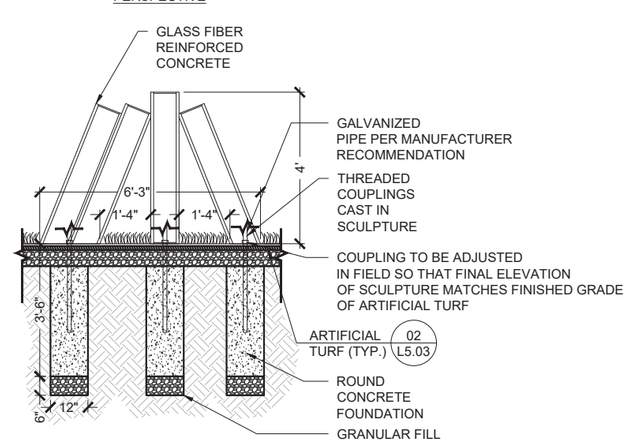


PERSPECTIVE

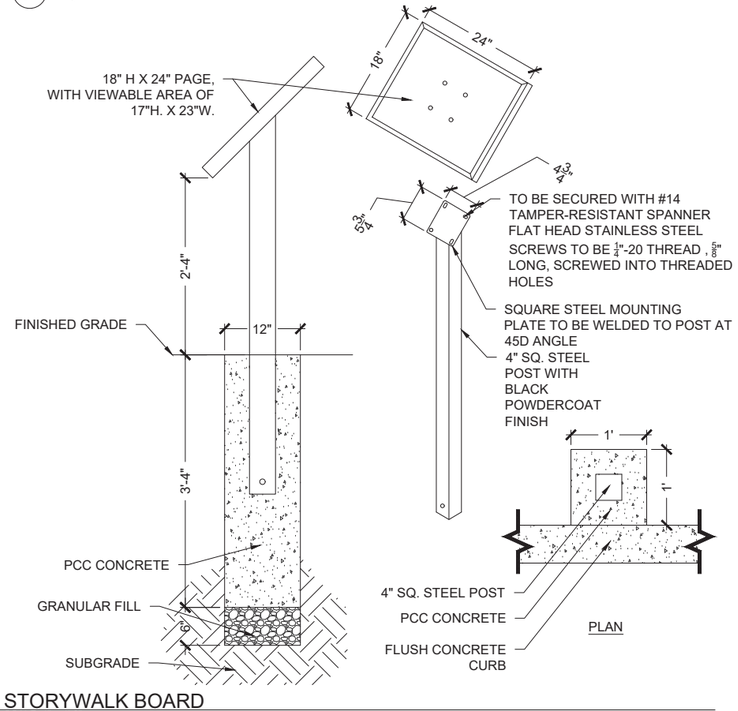


05 BOOK SCULPTURE 1
SCALE: 1" = 1'-0"

PERSPECTIVE



06 BOOK SCULPTURE 2
SCALE: 1" = 1'-0"

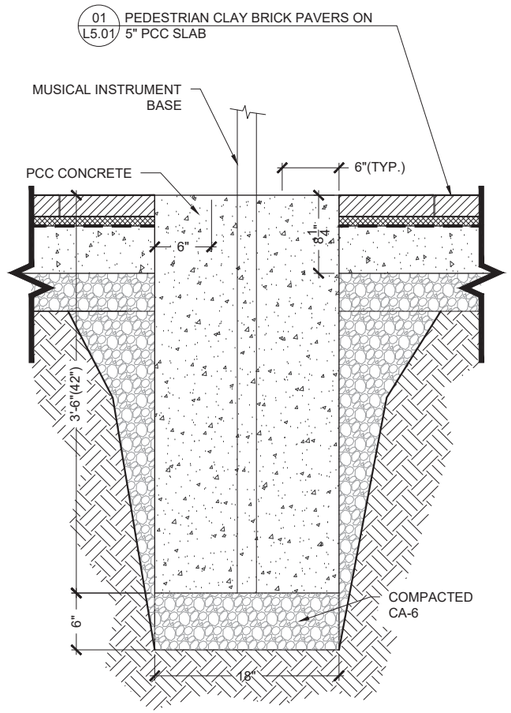


04 STORYWALK BOARD
SCALE: 1" = 1'-0"

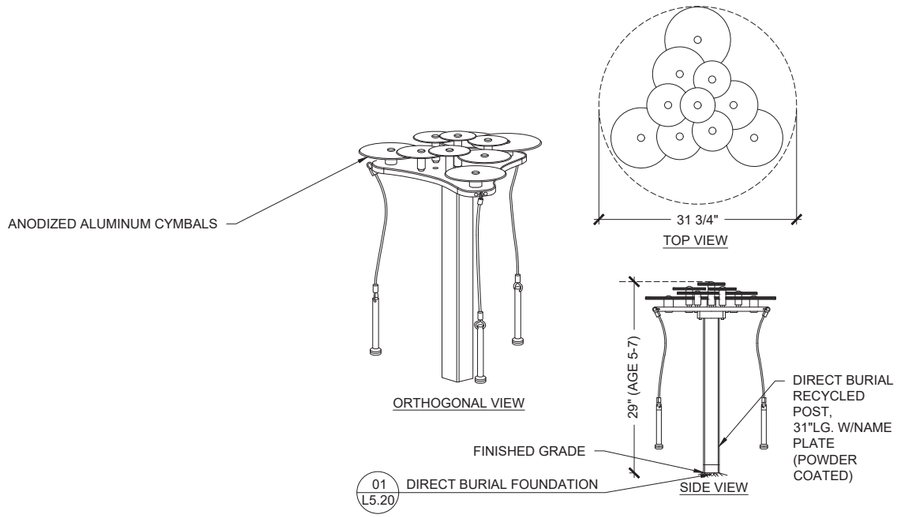
L5.19

CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET	TRASH ENCLOSURE AND BOOK DETAILS
		DRAWN - JDM, MA	REVISED -		
		CHECKED - PJH	REVISED -		
		DATE - 4/26/2024	REVISED -		

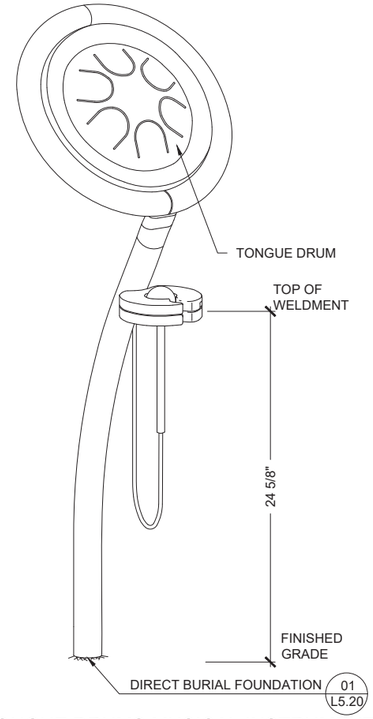
SCALE:	SHEET OF SHEETS	STA.	TO STA.	COUNTY	TOTAL SHEETS / SHEET NO.
					224 / 117
				CONTRACT NO.	
				ILLINOIS	FED. AID PROJECT



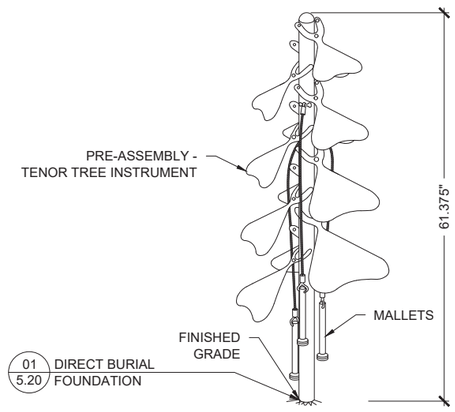
01 DIRECT BURIAL FOUNDATION
SCALE: 1 1/2" = 1'-0"



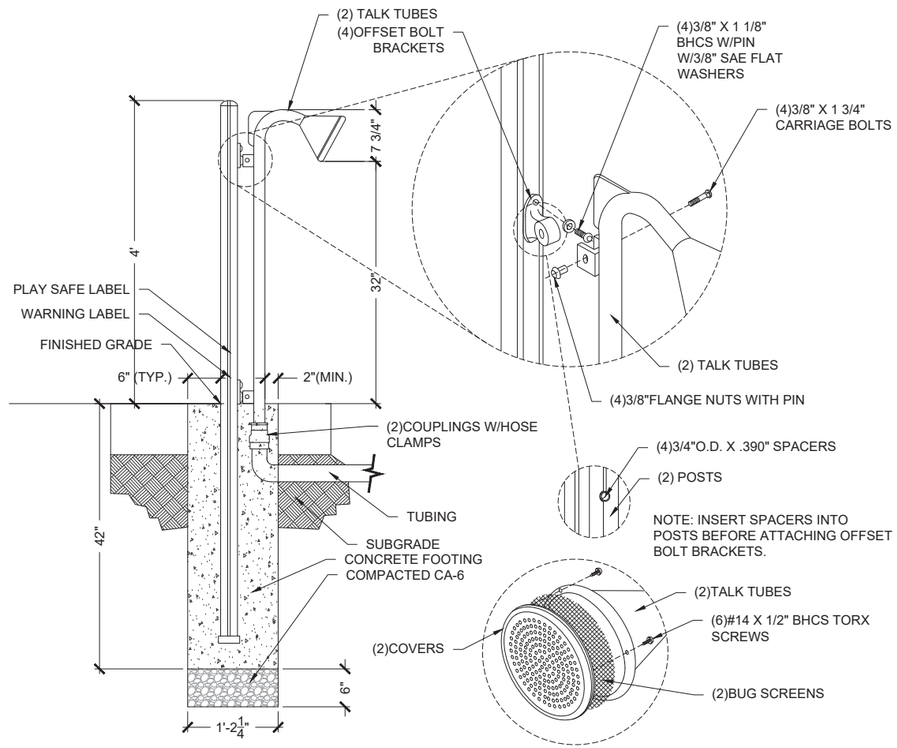
02 LILYPAD CYMBALS MUSICAL INSTRUMENT
SCALE: 1" = 1'-0"



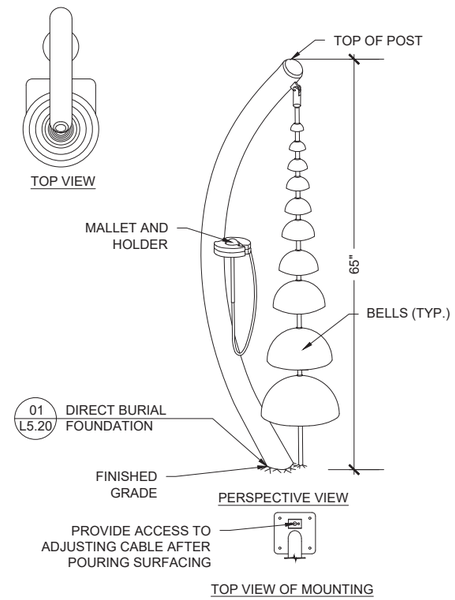
03 TONGUE DRUMS MUSICAL INSTRUMENT
SCALE: 1" = 1'-0"



04 TENOR TREE MUSICAL INSTRUMENT
SCALE: 1" = 1'-0"



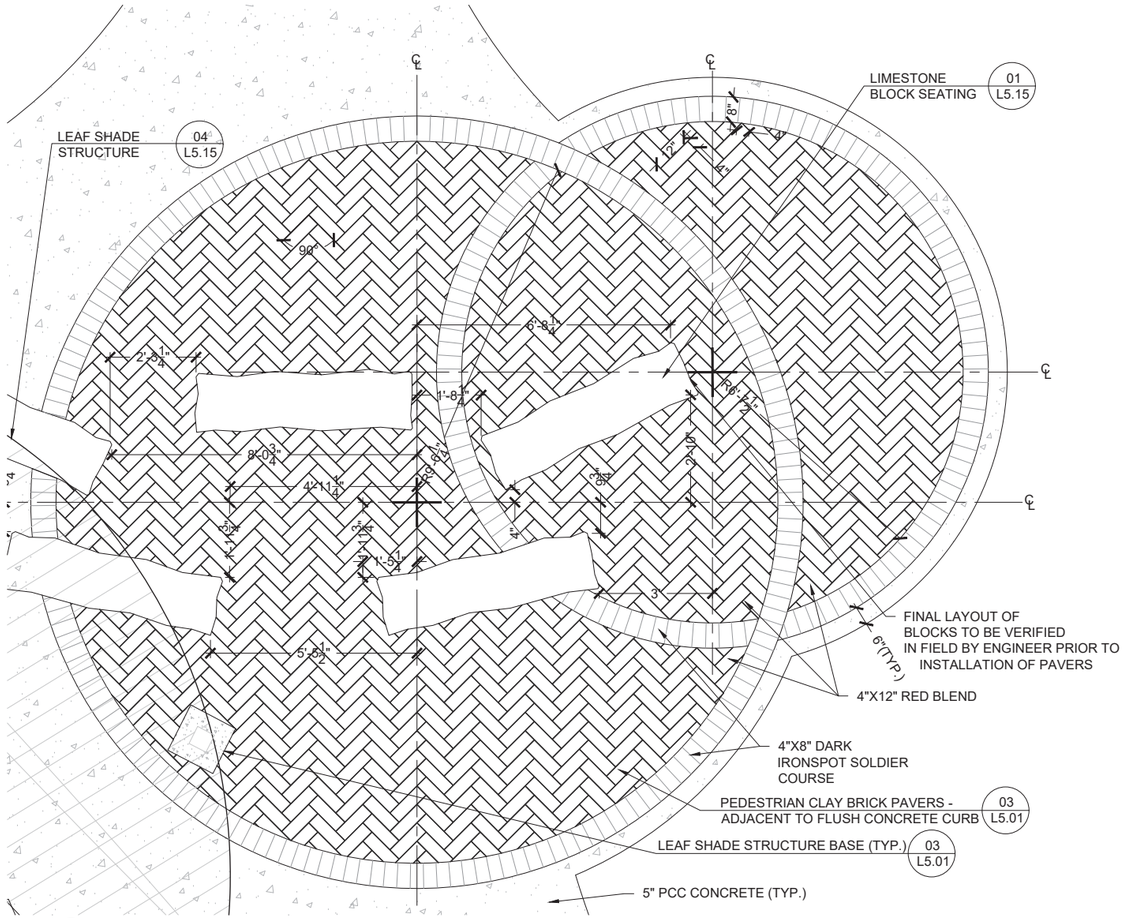
05 TALK TUBES MUSICAL INSTRUMENT
SCALE: 1" = 1'-0"



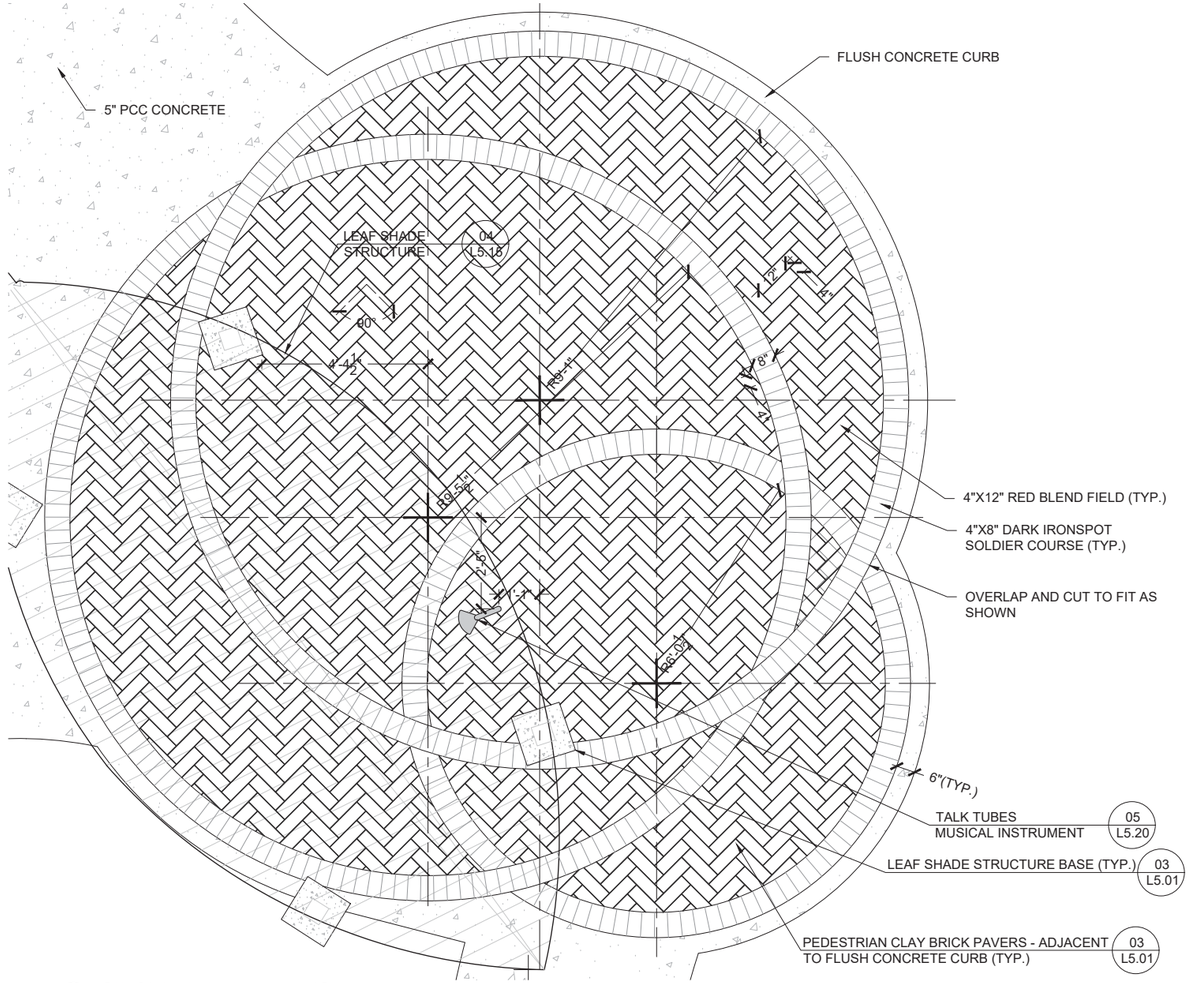
06 CASCATA BELLS MUSICAL INSTRUMENT
SCALE: 1" = 1'-0"

L5.20

CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET	PLAY ELEMENTS	COUNTY	TOTAL SHEETS 224 / SHEET NO. 118
		DRAWN - JDM, MA	REVISED -				
		CHECKED - PJH	REVISED -				CONTRACT NO.
		DATE - 4/26/2024	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT



01 CIRCULAR PAVER LAYOUT A
1/2" = 1'-0"



02 CIRCULAR PAVER LAYOUT B
1/2" = 1'-0"

L5.21

CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -
		DRAWN - JDM, MA	REVISED -
		CHECKED - PJH	REVISED -
		DATE - 4/26/2024	REVISED -

CITY OF JOLIET

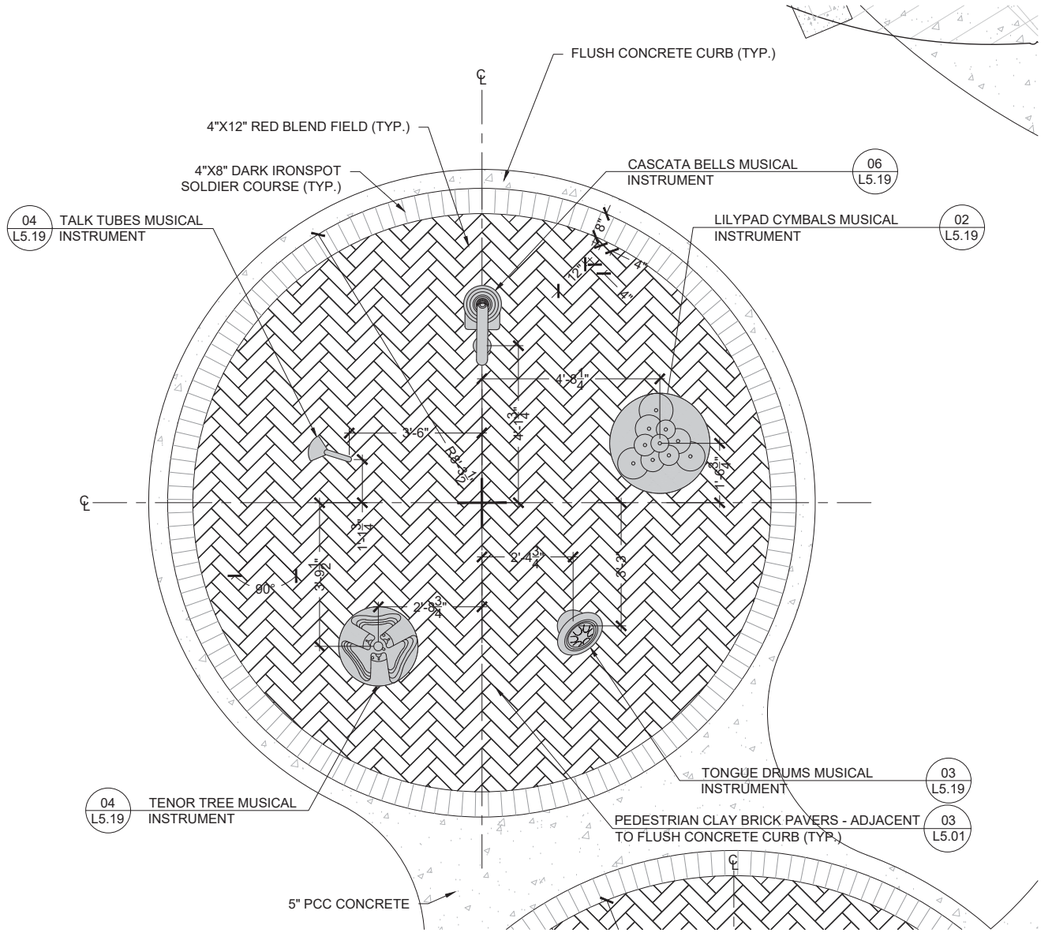
PLAY ELEMENTS

SCALE: | SHEET OF SHEETS | STA. TO STA.

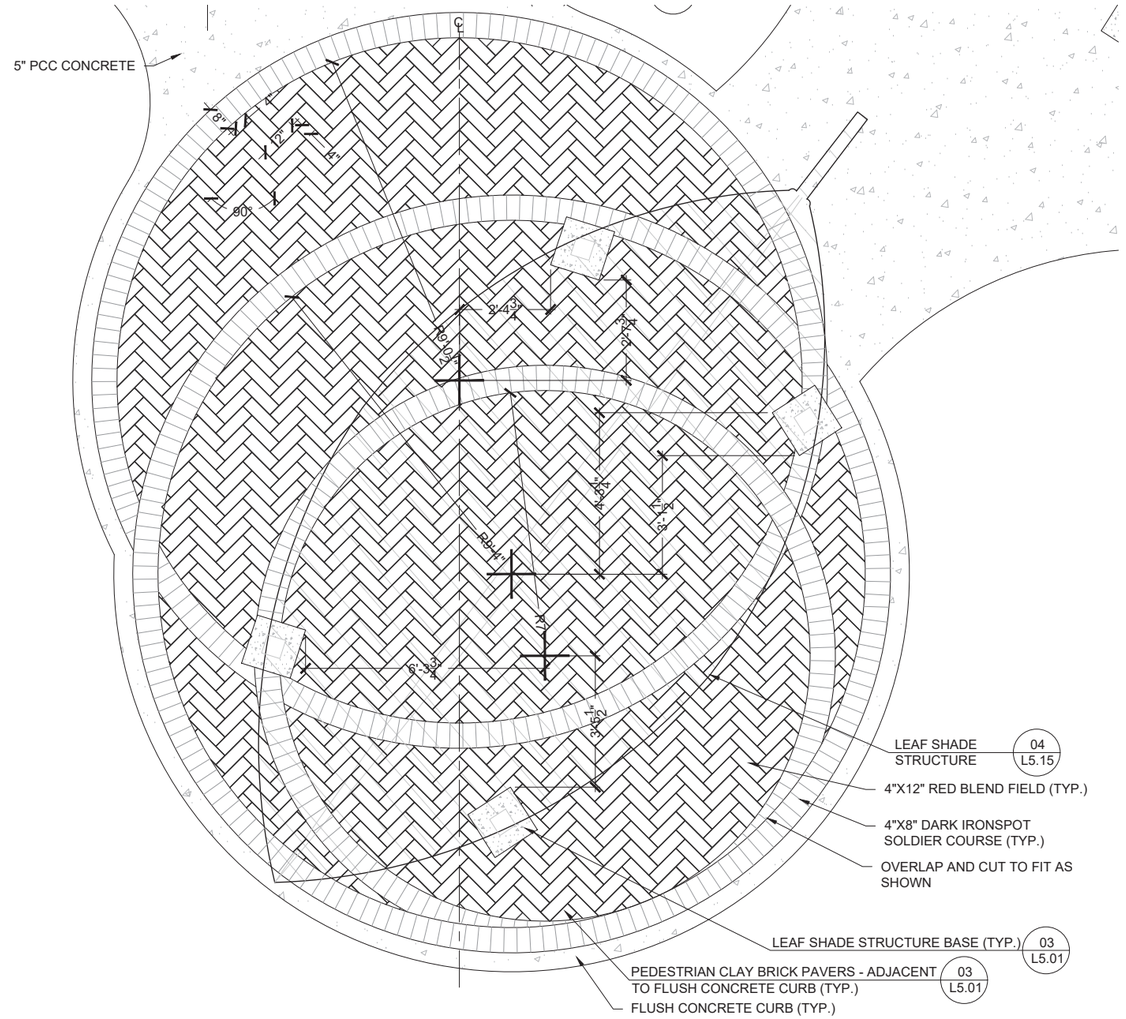
COUNTY	TOTAL SHEETS	SHEET NO.
	224	119

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



01 CIRCULAR PAVER LAYOUT C
1/2" = 1'-0"



02 CIRCULAR PAVER LAYOUT D
1/2" = 1'-0"

L5.22

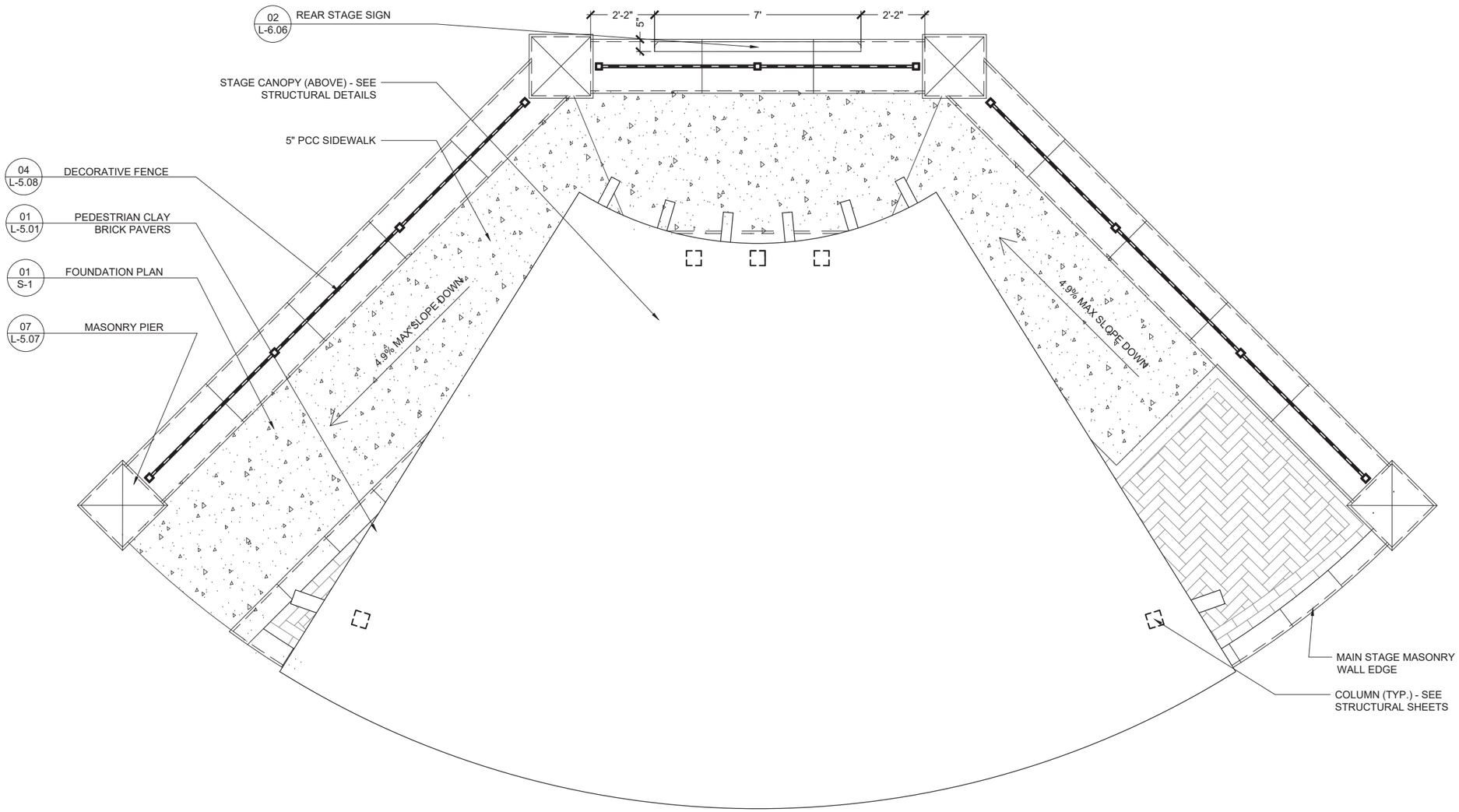
CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -
		DRAWN - JDM, MA	REVISED -
		CHECKED - PJH	REVISED -
		DATE - 4/26/2024	REVISED -

CITY OF JOLIET

PLAY ELEMENTS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

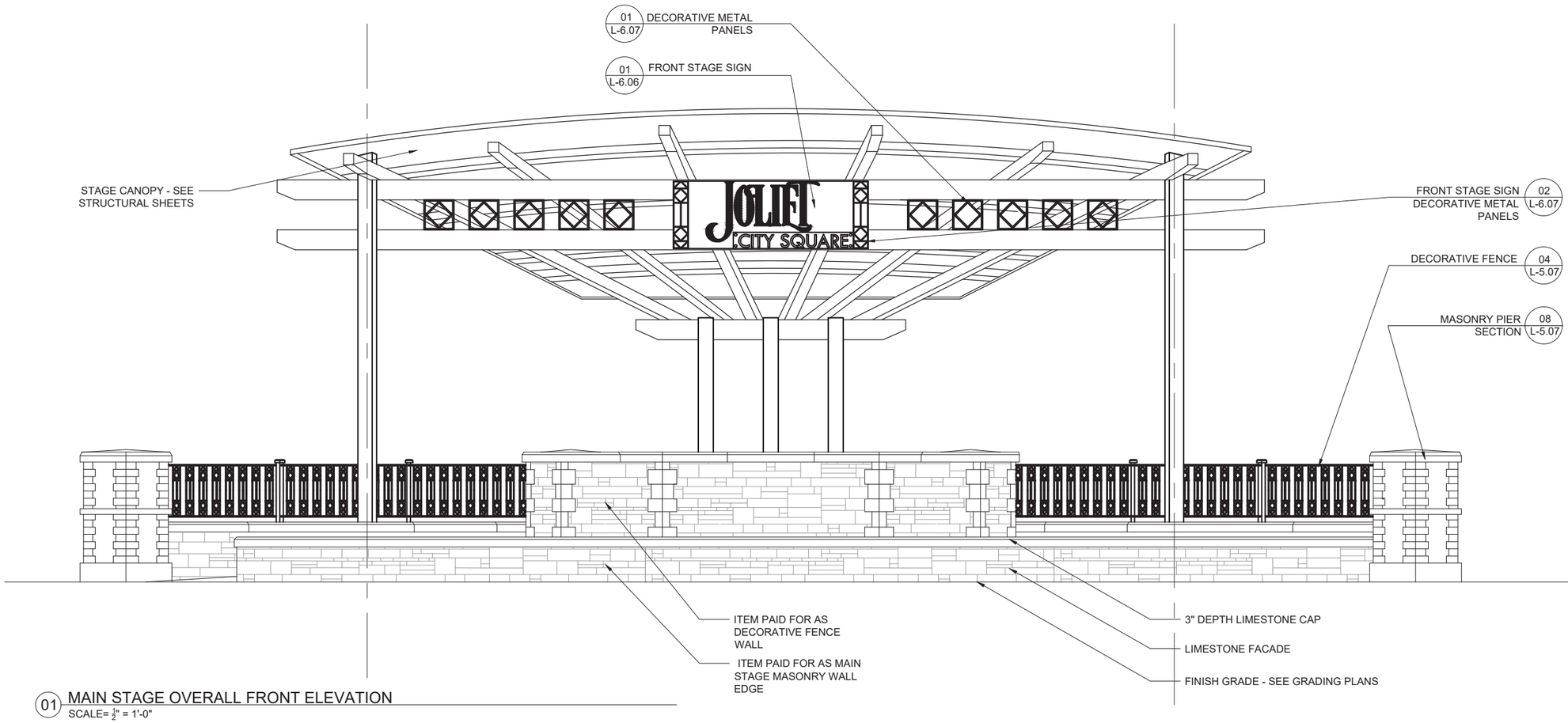
		COUNTY	TOTAL SHEETS	SHEET NO.
			224	120
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



01 MAIN STAGE OVERALL PLAN
SCALE=$\frac{1}{8}$" = 1'-0"

L-6.01

CIVILTECH	DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET
	DRAWN - JDM, MA	REVISED -	LANDSCAPE DETAILS MAIN STAGE
	CHECKED - PJH	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.
	DATE - 4/26/2024	REVISED -	COUNTY / TOTAL SHEETS 224 / SHEET NO. 121
			CONTRACT NO.
			ILLINOIS FED. AID PROJECT



01 MAIN STAGE OVERALL FRONT ELEVATION
SCALE= $\frac{1}{2}$" = 1'-0"

L-6.02

CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -
		DRAWN - JDM, MA	REVISED -
		CHECKED - PJH	REVISED -
		DATE - 4/26/2024	REVISED -

CITY OF JOLIET

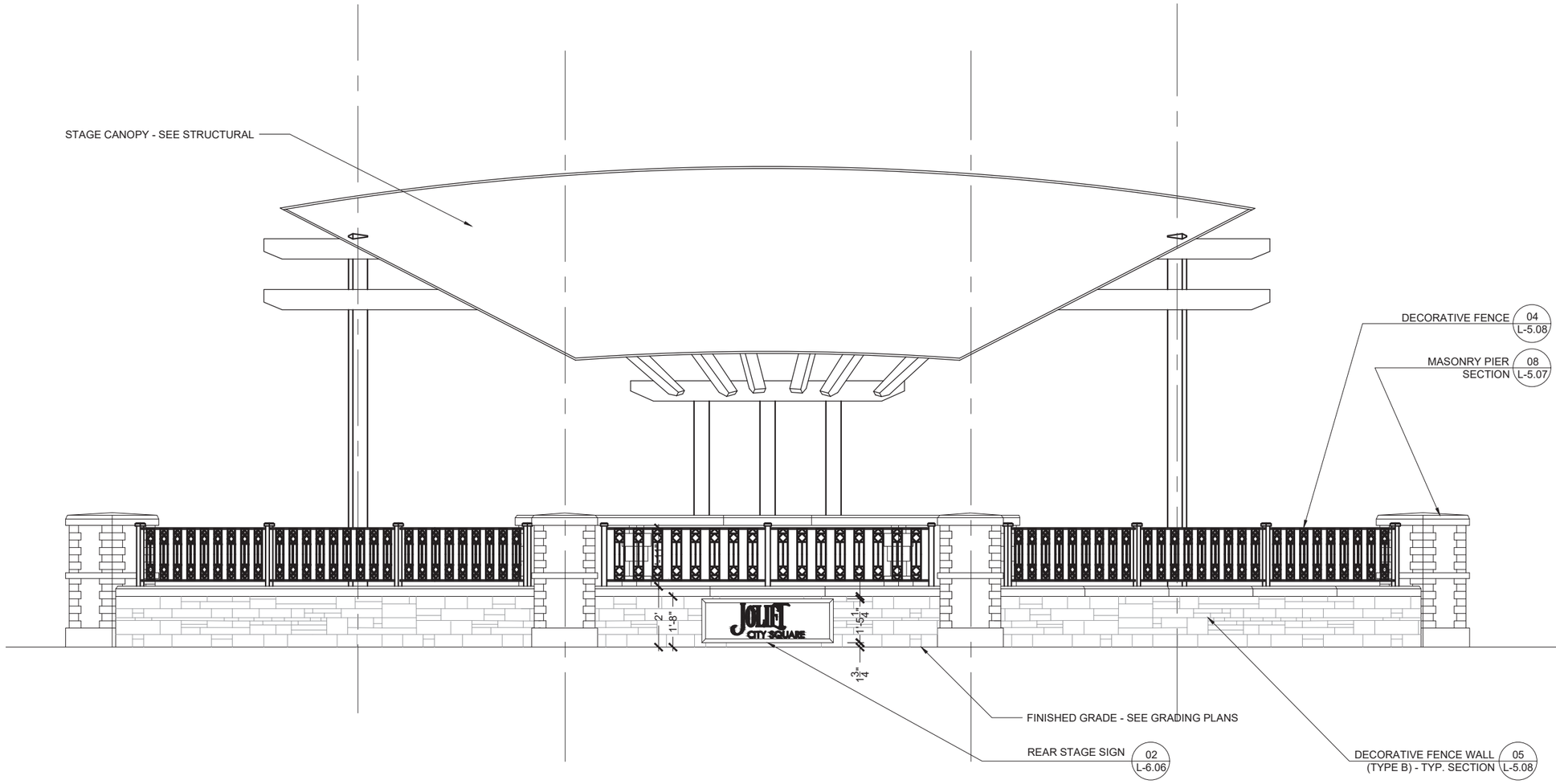
LANDSCAPE DETAILS
MAIN STAGE

SCALE: | SHEET OF SHEETS | STA. TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
	224	122

CONTRACT NO.

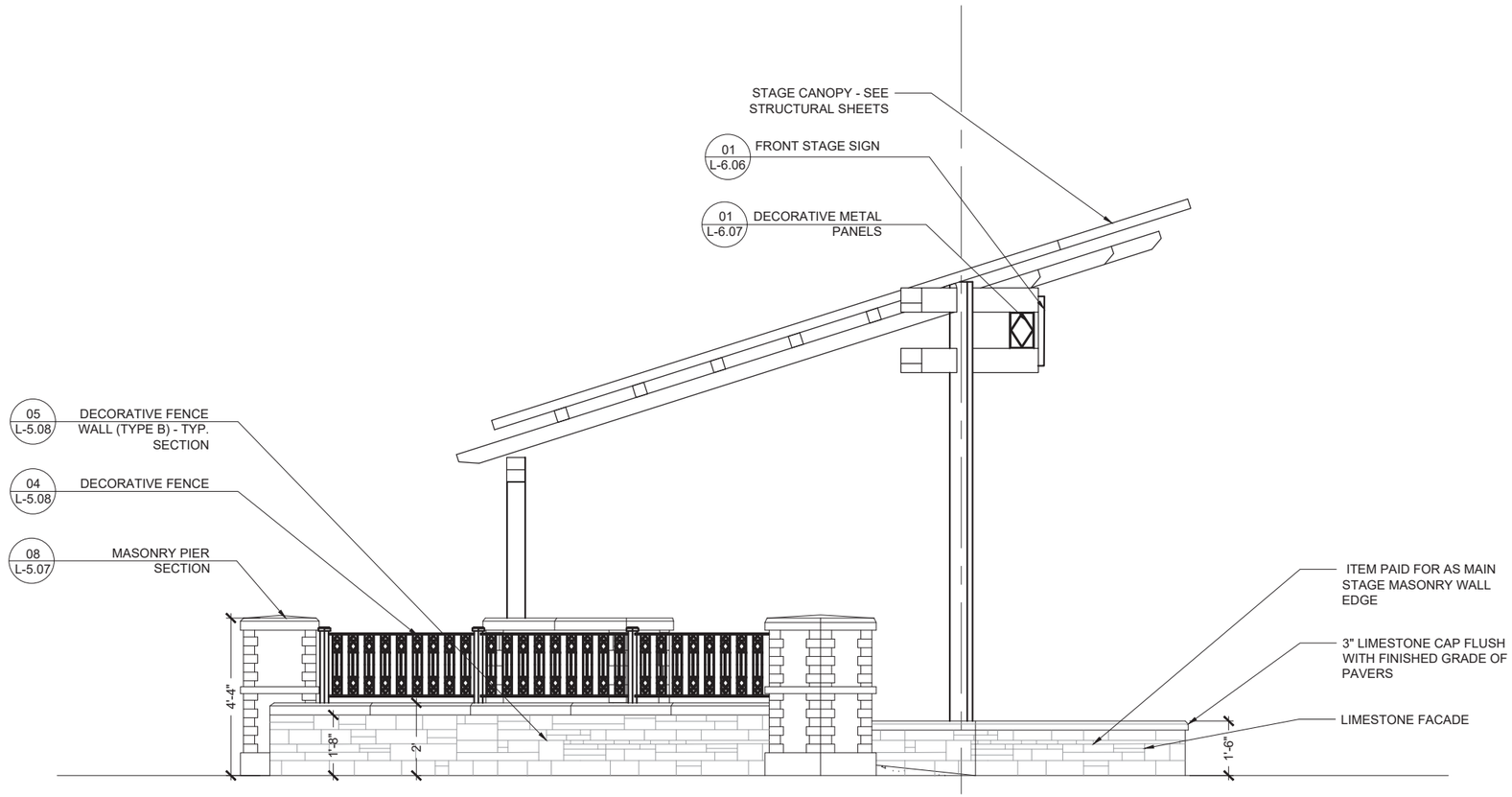
ILLINOIS | FED. AID PROJECT



01 MAIN STAGE OVERALL REAR ELEVATION
SCALE= 1/2" = 1'-0"

L-6.03

CIVILTECH	DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET
	DRAWN - JDM, MA	REVISED -	LANDSCAPE DETAILS MAIN STAGE
	CHECKED - PJH	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.
	DATE - 4/26/2024	REVISED -	COUNTY / TOTAL SHEETS 224 / SHEET NO. 123 / CONTRACT NO. / ILLINOIS / FED. AID PROJECT



01 MAIN STAGE OVERALL SIDE ELEVATION
SCALE= 3/4" = 1'-0"

L-6.04

CIVILTECH	DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET
	DRAWN - JDM, MA	REVISED -	
	CHECKED - PJH	REVISED -	
	DATE - 4/26/2024	REVISED -	

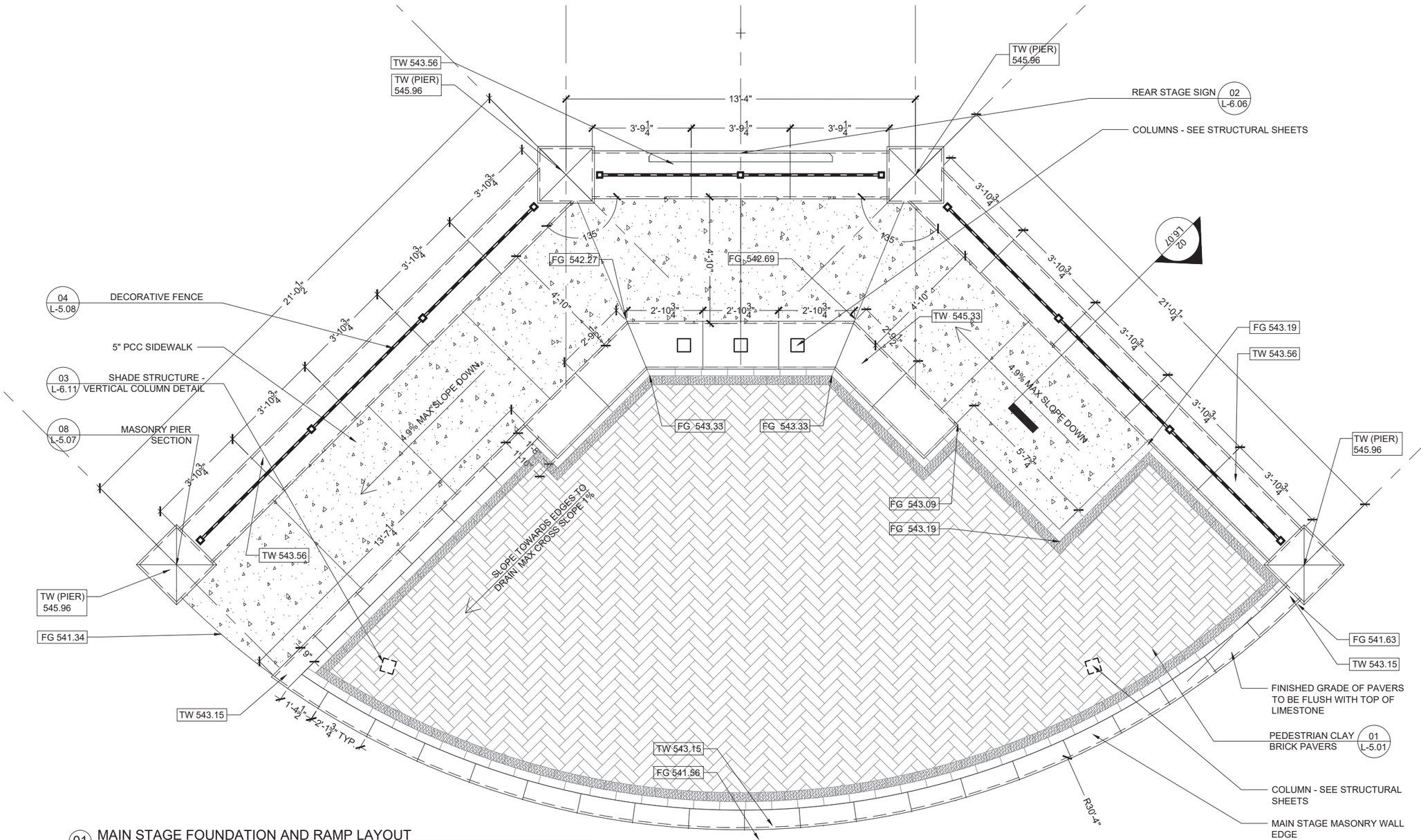
LANDSCAPE DETAILS
MAIN STAGE

SCALE: | SHEET OF SHEETS | STA. TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
	224	124

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



01 MAIN STAGE FOUNDATION AND RAMP LAYOUT
SCALE= 1/2" = 1'-0"

L-6.05

CIVILTECH	DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET
	DRAWN - JDM, MA	REVISED -	
	CHECKED - PJH	REVISED -	
	DATE - 4/26/2024	REVISED -	

LANDSCAPE DETAILS
MAIN STAGE

SCALE: | SHEET OF SHEETS | STA. TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
	224	125

CONTRACT NO.

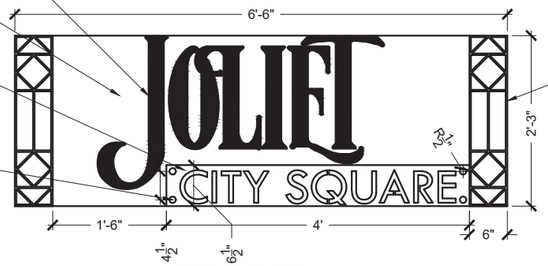
ILLINOIS | FED. AID PROJECT

1/4" LASER CUT STEEL LETTERS WITH 3" LENGTH THREADED LUGS. LETTERS TO BE BOLTED TO DRILLED SIGN BODY WITH NUTTED CONNECTION TO PROVIDE 2" PROJECTION

SIGN BODY TO BE 1/4" THICK STEEL PANEL PAINTED SILVER

LASER CUT 11GA STEEL PLATE (BLACK) TO BE BOLTED TO SIGN BODY (SILVER).

(4) 1/2" DIA X 1 1/4" LENGTH STAINLESS STEEL HEX BOLTS WITH NUTS AT EACH CORNER OF PANEL



FRONT STAGE SIGN

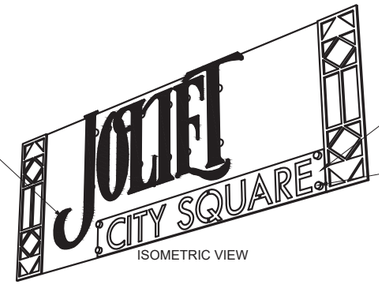
FRONT STAGE SIGN DECORATIVE METAL PANELS — 02 / L-6.07



1/2" DIA HOLES IN SIGN BODY PANEL TO ACCEPT 1/2" DIA THREADED LUGS, WELDED TO LETTERS.

1/4" LASER CUT STEEL LETTERS - OWNER TO PROVIDE DIGITAL FILE OF TEXT/FONT FOR CONTRACTOR USE.

1/4" LASER CUT STEEL LETTERS WITH 3" LENGTH 1/2" DIA THREADED LUGS. LETTERS TO BE BOLTED TO DRILLED SIGN BODY WITH NUTTED CONNECTION TO PROVIDE 2" GAP BETWEEN LETTER AND SIGN BODY PANEL. LETTERS AND ATTACHMENT HARDWARE TO BE PAINTED BLACK.



ISOMETRIC VIEW

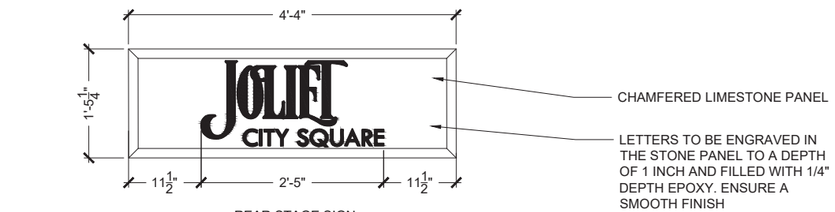
LASER CUT PLATE TO BE 11GA STEEL - BOLTED TO IDENTIFIER BODY. LASER CUT PLATE TO BE PAINTED BLACK

(4) 1/2" DIA X 1 1/4" LENGTH STAINLESS STEEL HEX BOLTS WITH NUTS AT EACH CORNER OF PANEL



TOP VIEW

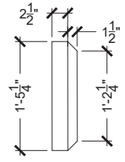
01 FRONT STAGE SIGN
SCALE= 1" = 1'-0"



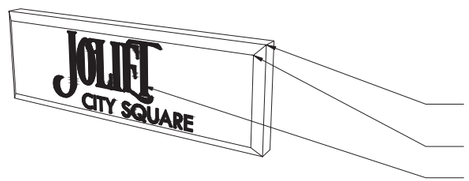
REAR STAGE SIGN

CHAMFERED LIMESTONE PANEL

LETTERS TO BE ENGRAVED IN THE STONE PANEL TO A DEPTH OF 1 INCH AND FILLED WITH 1/4" DEPTH EPOXY. ENSURE A SMOOTH FINISH



SIDE VIEW



ISOMETRIC VIEW

THE SIGN TO BE EMBEDDED IN THE LIMESTONE FACADE

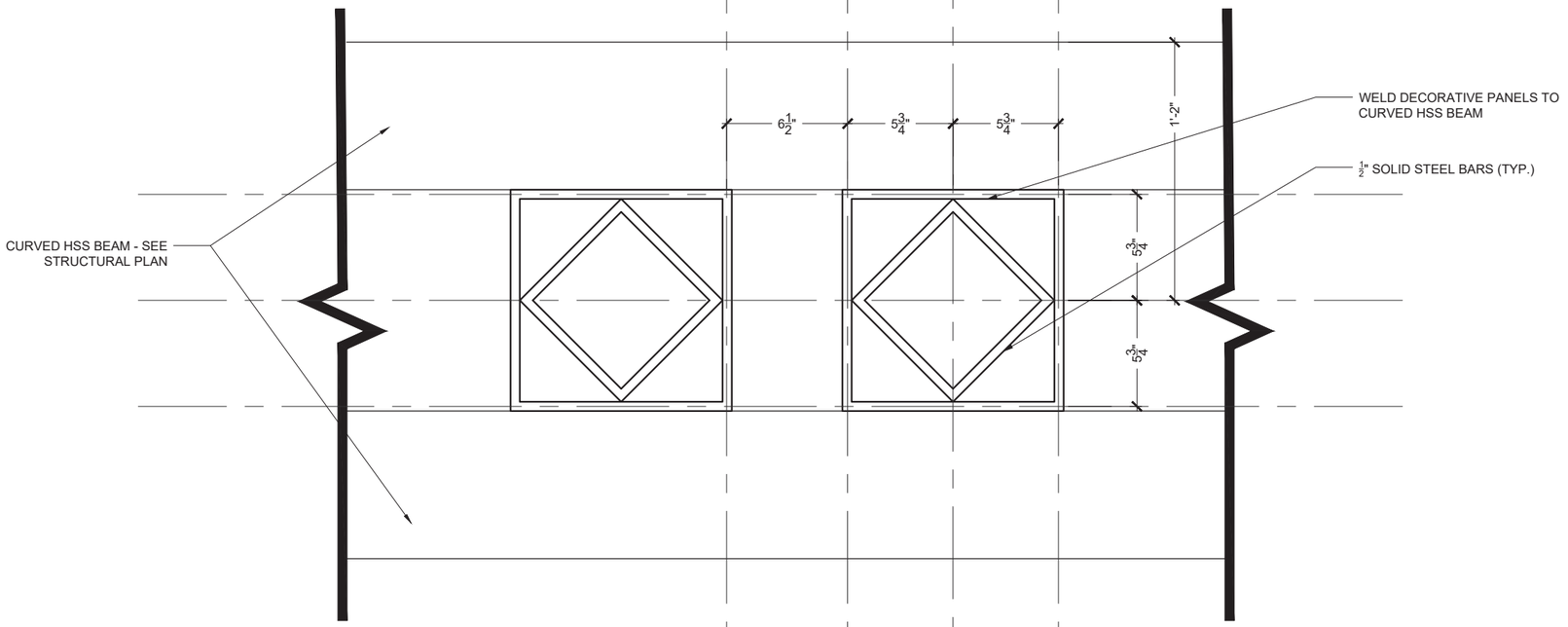
CHAMFERED LIMESTONE PANEL

BLACK EPOXY

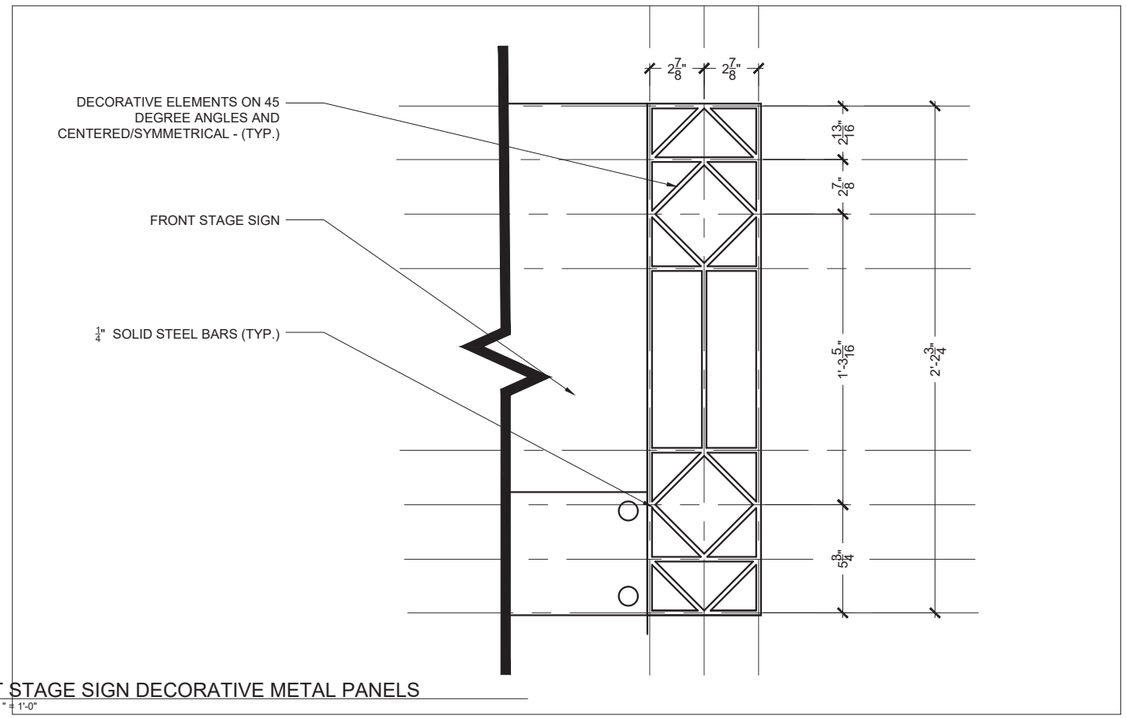
02 REAR STAGE SIGN
SCALE= 1" = 1'-0"

L-6.06

CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET	LANDSCAPE DETAILS MAIN STAGE SIGNAGE		COUNTY / TOTAL SHEETS / SHEET NO.
		DRAWN - JDM, MA	REVISED -				224 / 126
		CHECKED - PJH	REVISED -				CONTRACT NO.
		DATE - 4/26/2024	REVISED -		SCALE: / SHEET OF SHEETS / STA. TO STA.		ILLINOIS / FED. AID PROJECT



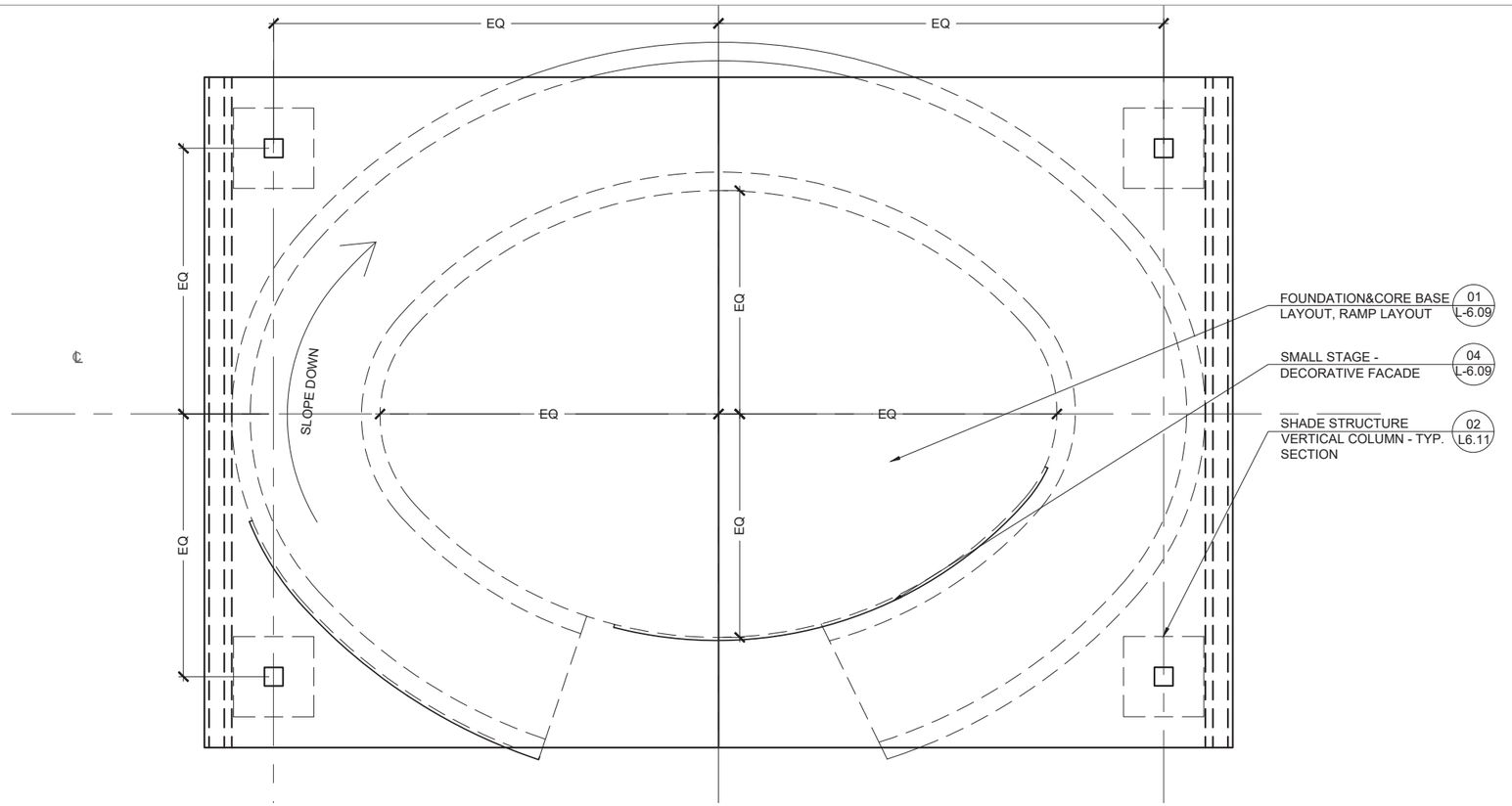
01 DECORATIVE METAL PANELS
SCALE= 3/4 " = 1'-0"



02 FRONT STAGE SIGN DECORATIVE METAL PANELS
SCALE= 1-1/2 " = 1'-0"

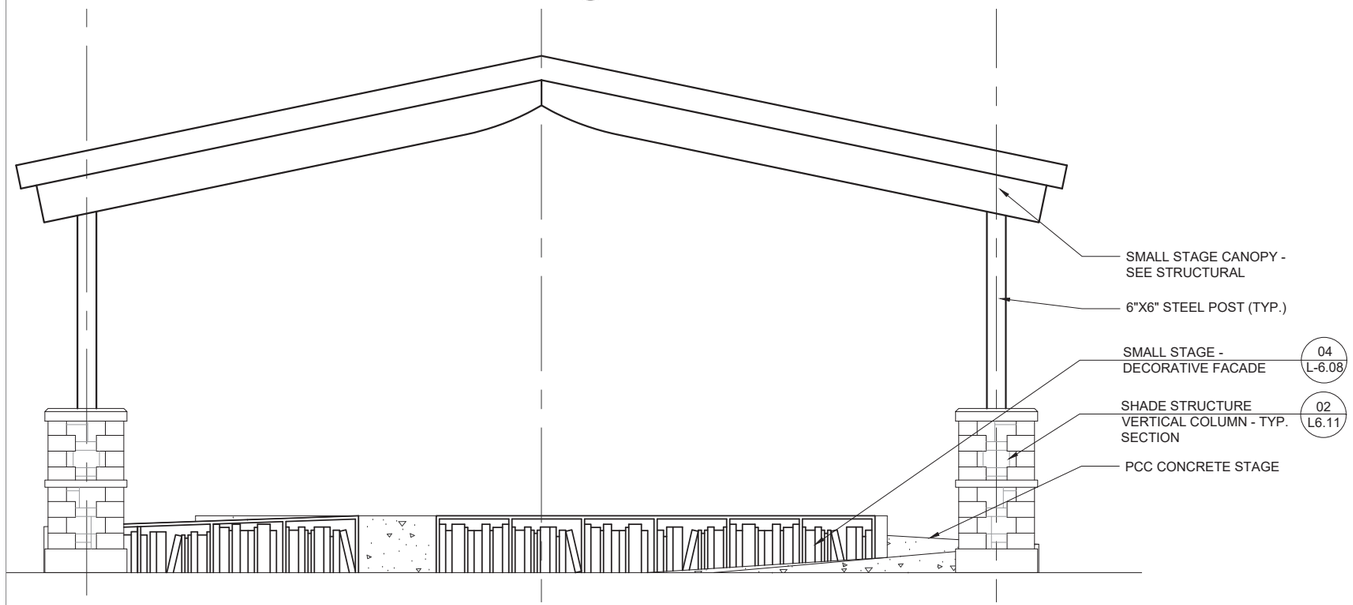
L-6.07

CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET	LANDSCAPE DETAILS MAIN STAGE SIGNAGE DETAILS		COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - JDM, MA	REVISED -					224 / 127
		CHECKED - PJH	REVISED -				CONTRACT NO.	
		DATE - 4/26/2024	REVISED -		SCALE:	SHEET OF SHEETS STA. AS NOTED TO STA.	ILLINOIS	FED. AID PROJECT



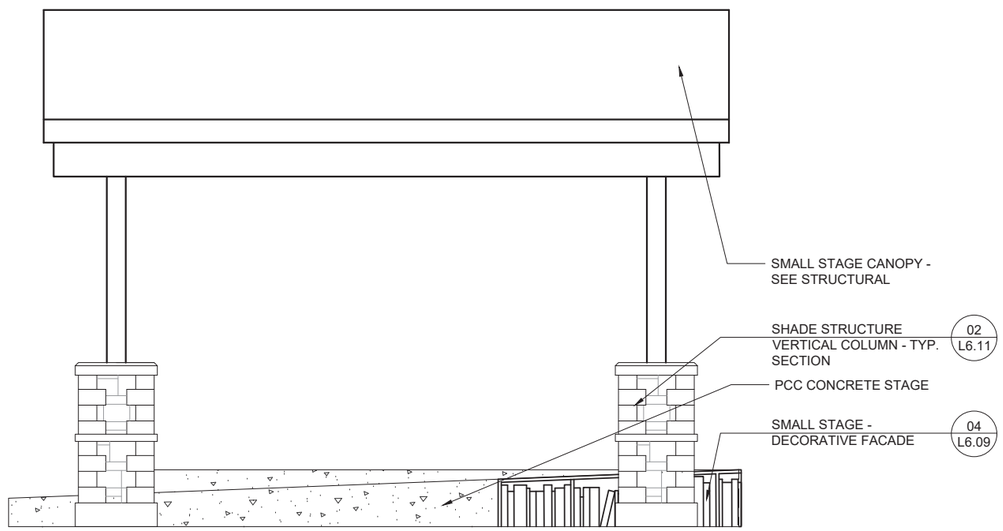
01 SMALL STAGE - OVERALL PLAN

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



02 SMALL STAGE - FRONT ELEVATION

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



03 SMALL STAGE - SIDE ELEVATION

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

L-6.08

CIVILTECH

DESIGNED - PJH, JDM, MA	REVISED -	
DRAWN - JDM, MA	REVISED -	
CHECKED - PJH	REVISED -	
DATE - 4/26/2024	REVISED -	

CITY OF JOLIET

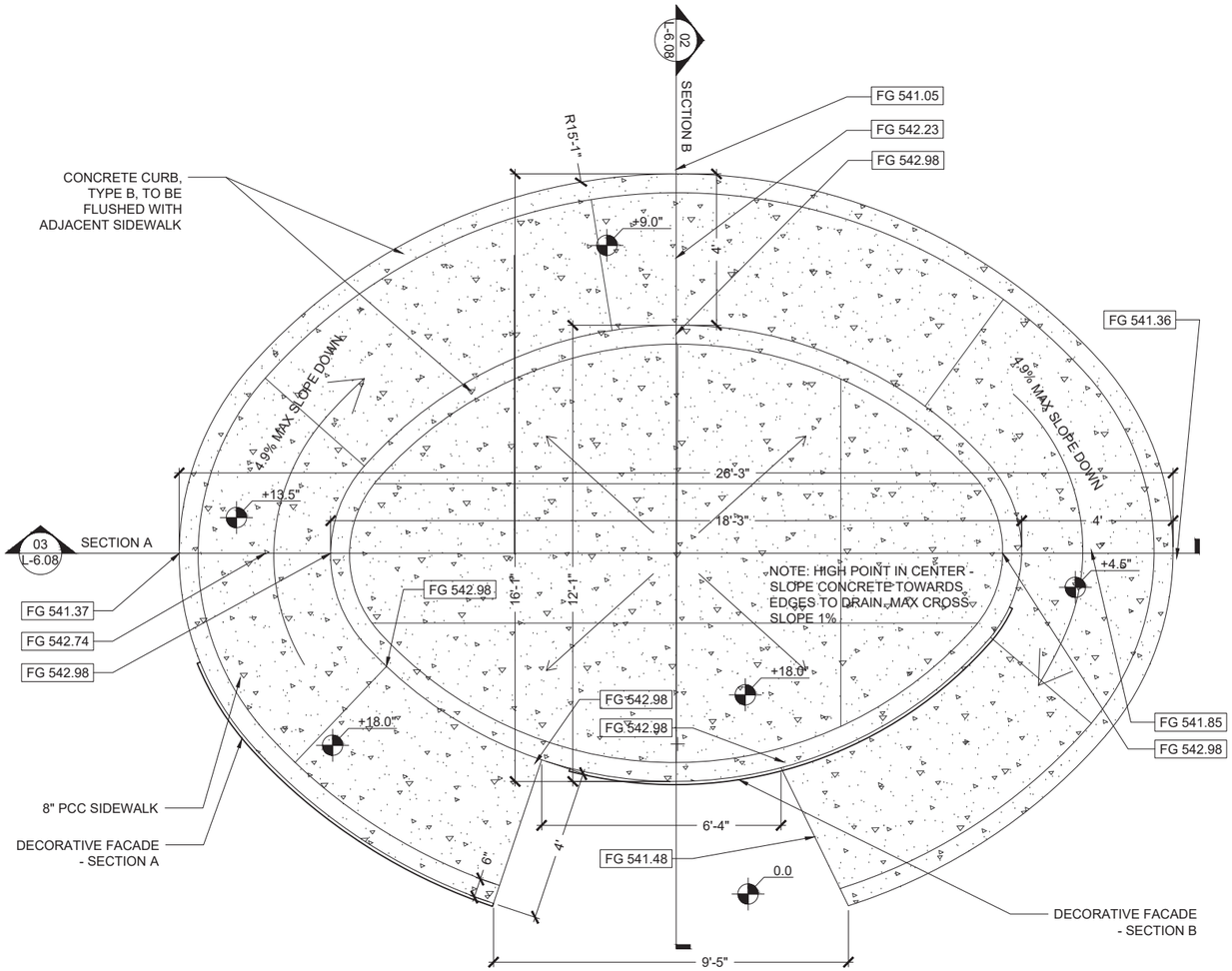
LANDSCAPE DETAILS
SMALL STAGE

SCALE: SHEET OF SHEETS STA. TO STA.

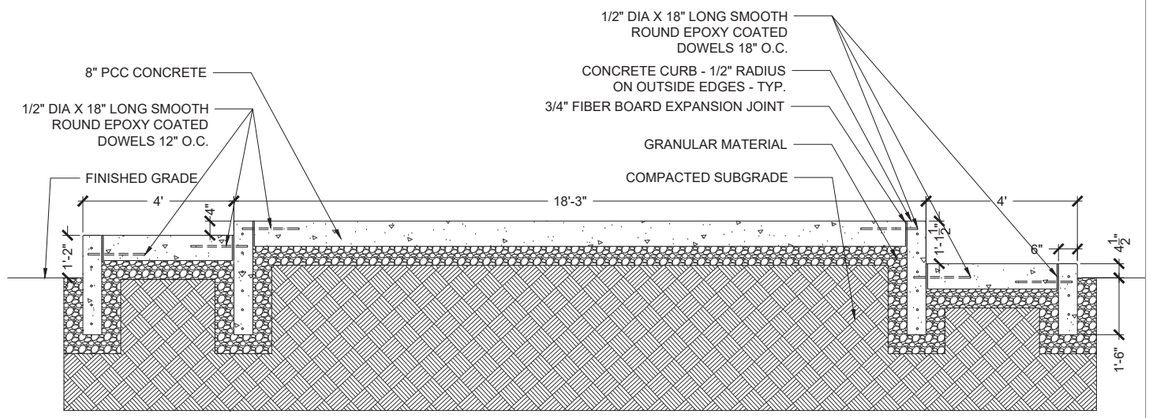
COUNTY	TOTAL SHEETS	SHEET NO.
	224	128

CONTRACT NO.

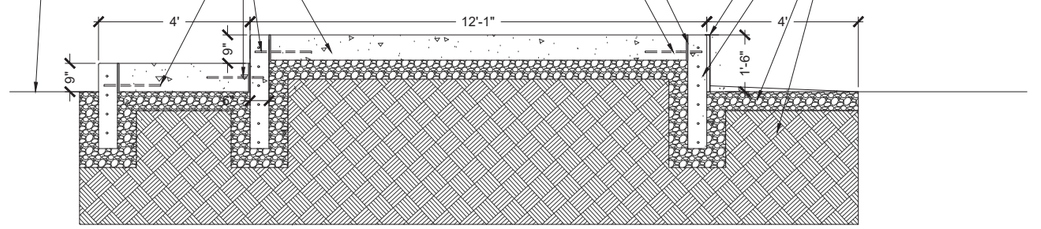
ILLINOIS FED. AID PROJECT



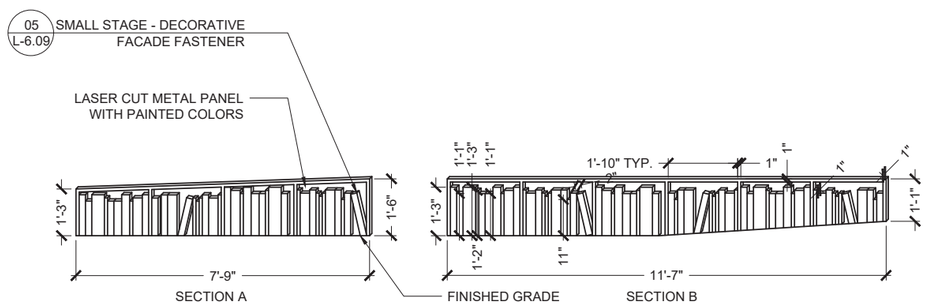
01 SMALL STAGE - FOUNDATION AND RAMP LAYOUT
SCALE= 1/4" = 1'-0"



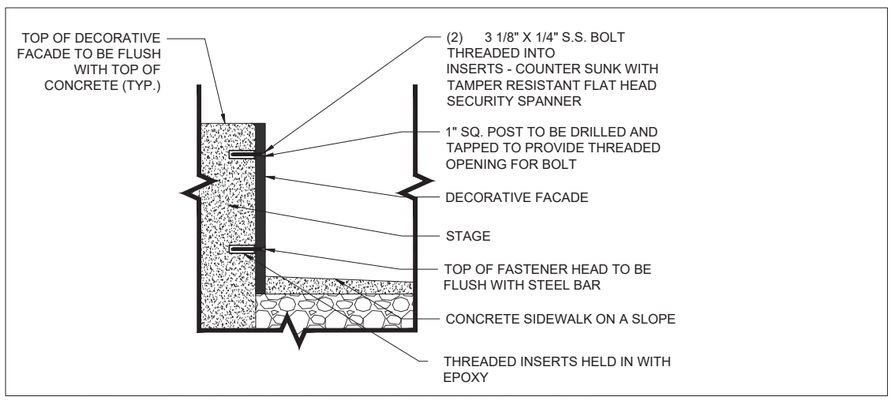
02 SMALL STAGE BASE - SECTION A
SCALE= 1/4" = 1'-0"



03 SMALL STAGE BASE - SECTION B
SCALE= 1/4" = 1'-0"



04 SMALL STAGE - DECORATIVE FACADE
SCALE= 1/4" = 1'-0"



05 SMALL STAGE - DECORATIVE FACADE FASTENER
SCALE= 1-1/2" = 1'-0"

L-6.09

CIVILTECH

	DESIGNED - PJH, JDM, MA	REVISED -
	DRAWN - JDM, MA	REVISED -
	CHECKED - PJH	REVISED -
	DATE - 4/26/2024	REVISED -

CITY OF JOLIET

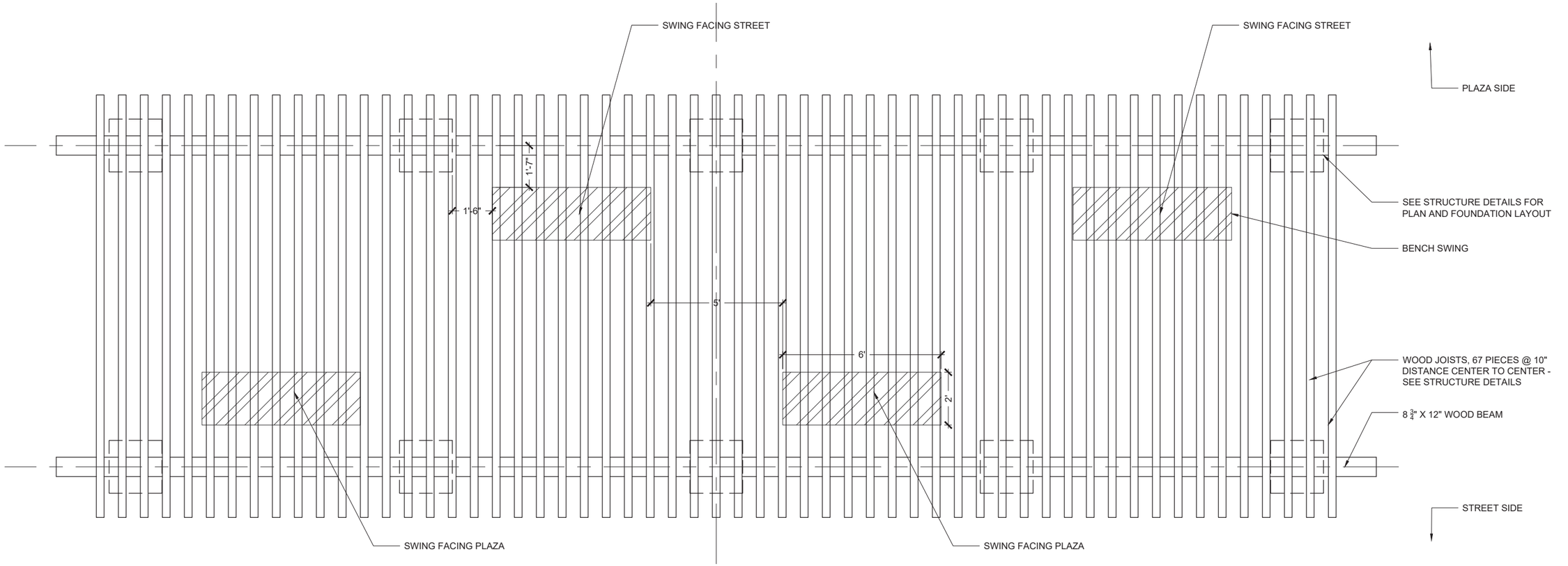
LANDSCAPE DETAILS
SMALL STAGE

SCALE: | SHEET OF SHEETS | STA. TO STA.

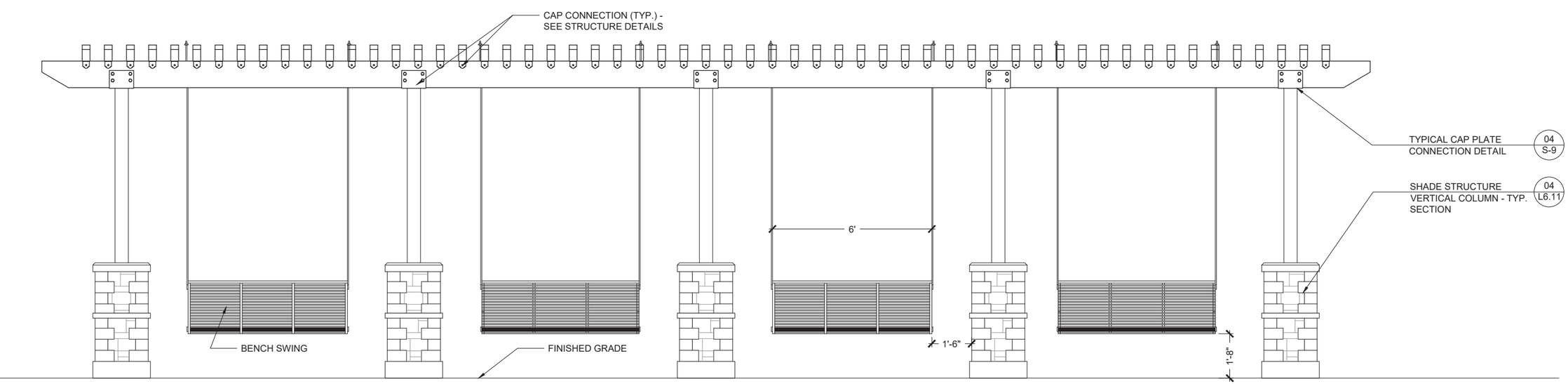
COUNTY	TOTAL SHEETS	SHEET NO.
	224	129

CONTRACT NO.

ILLINOIS | FED. AID PROJECT



01 SHADE STRUCTURE - TYPICAL PLAN VIEW
SCALE= ½ " = 1'-0"



02 SHADE STRUCTURE - TYPICAL SIDE ELEVATION
SCALE= ½ " = 1'-0"

L-6.10

CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -
		DRAWN - JDM, MA	REVISED -
		CHECKED - PJH	REVISED -
		DATE - 4/26/2024	REVISED -

CITY OF JOLIET

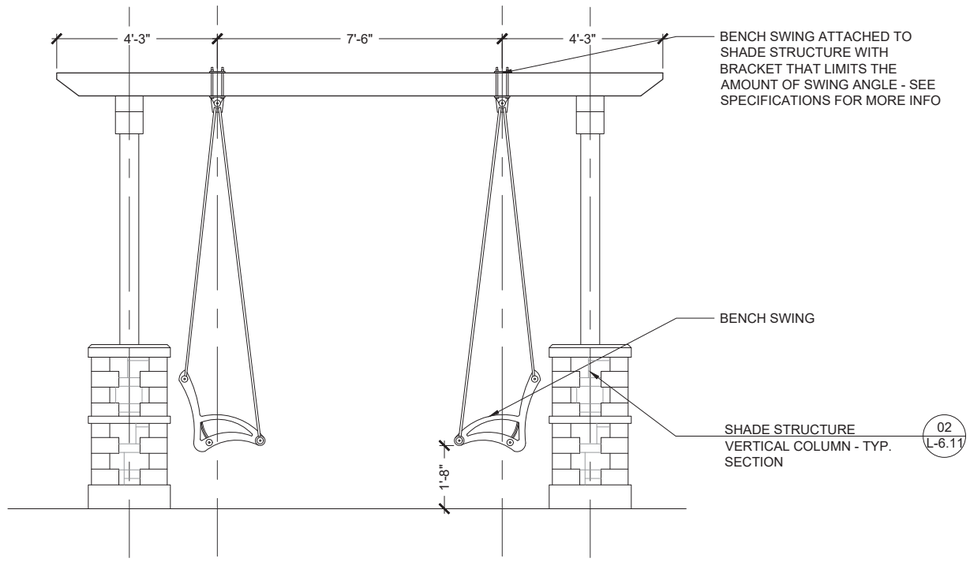
LANDSCAPE DETAILS
SHADE STRUCTURE

SCALE: | SHEET OF SHEETS | STA. | TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
	224	130

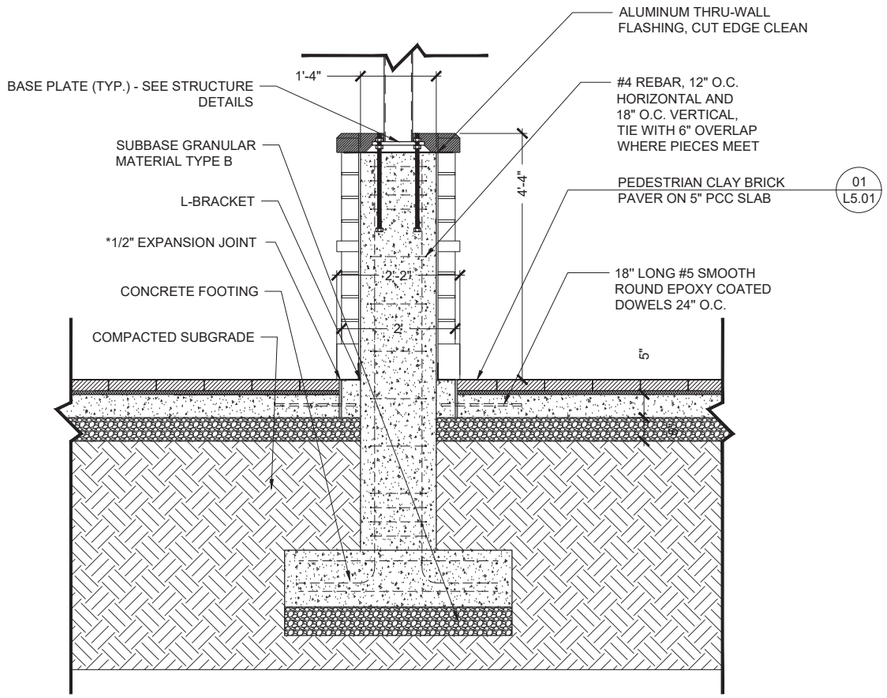
CONTRACT NO.

ILLINOIS | FED. AID PROJECT



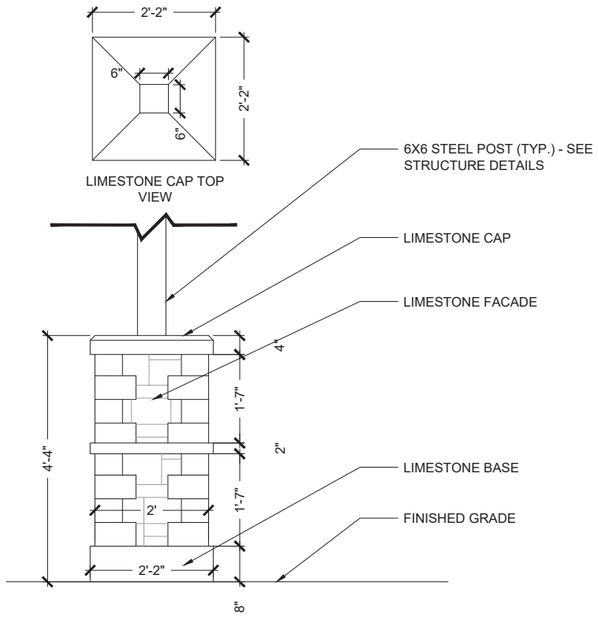
01 SHADE STRUCTURE - TYPICAL FRONT ELEVATION

SCALE=$\frac{3}{4}$" = 1'-0"



02 SHADE STRUCTURE VERTICAL COLUMN - TYP. SECTION

SCALE=$\frac{3}{4}$" = 1'-0"



03 SHADE STRUCTURE VERTICAL COLUMN - TYP. ELEVATION

SCALE=$\frac{3}{4}$" = 1'-0"

L-6.11

CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -
		DRAWN - JDM, MA	REVISED -
		CHECKED - PJH	REVISED -
		DATE - 4/26/2024	REVISED -

CITY OF JOLIET

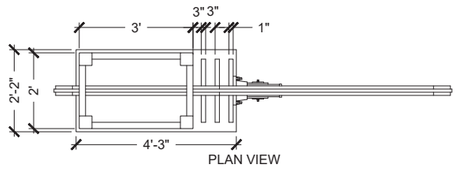
LANDSCAPE DETAILS
SHADE STRUCTURE

SCALE: | SHEET OF SHEETS | STA. | TO STA.

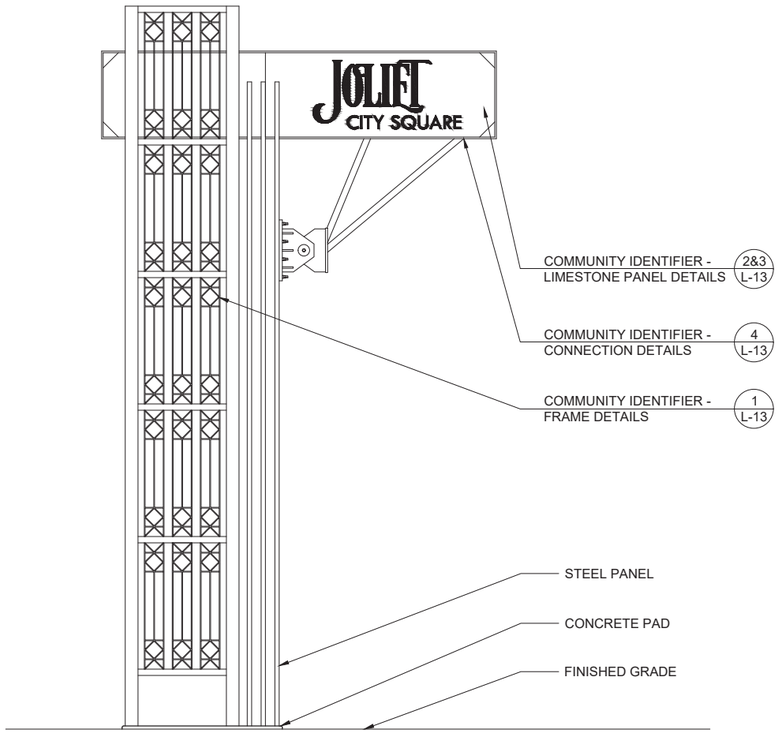
COUNTY	TOTAL SHEETS	SHEET NO.
	224	131

CONTRACT NO.

ILLINOIS | FED. AID PROJECT

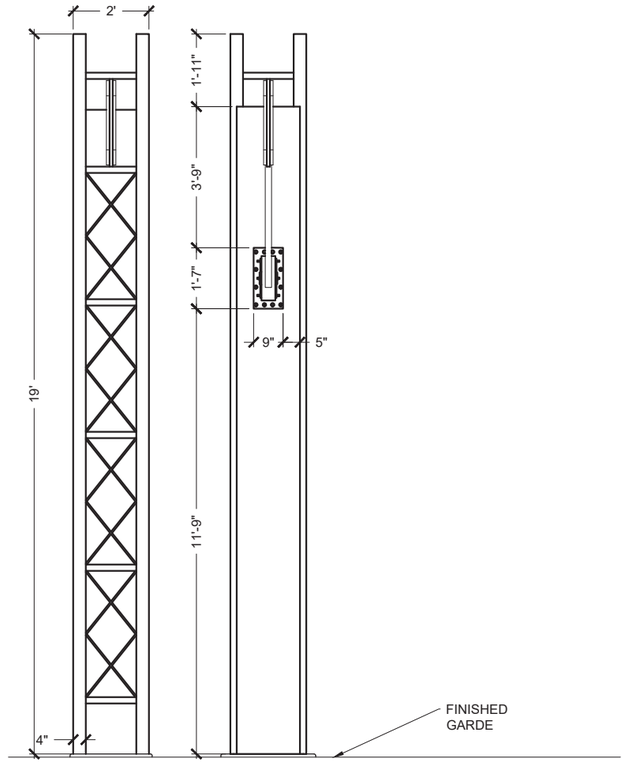


PLAN VIEW



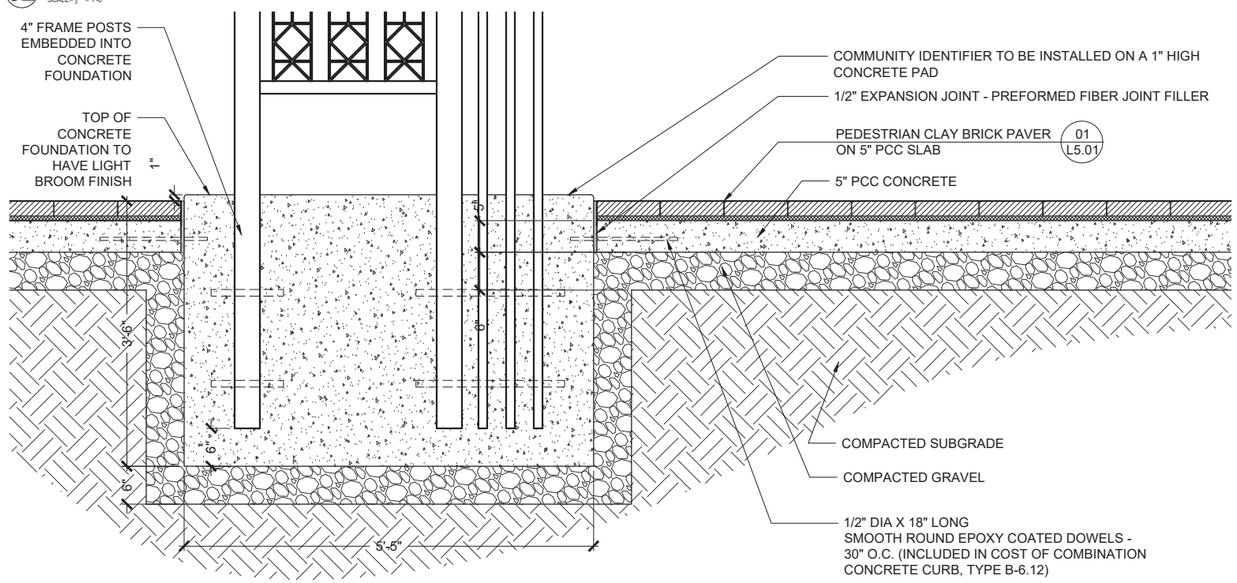
01 COMMUNITY IDENTIFIER - FRONT ELEVATION & PLAN VIEW

SCALE= $\frac{1}{2}$ " = 1'-0"



02 COMMUNITY IDENTIFIER - SIDE ELEVATIONS

SCALE= $\frac{1}{2}$ " = 1'-0"

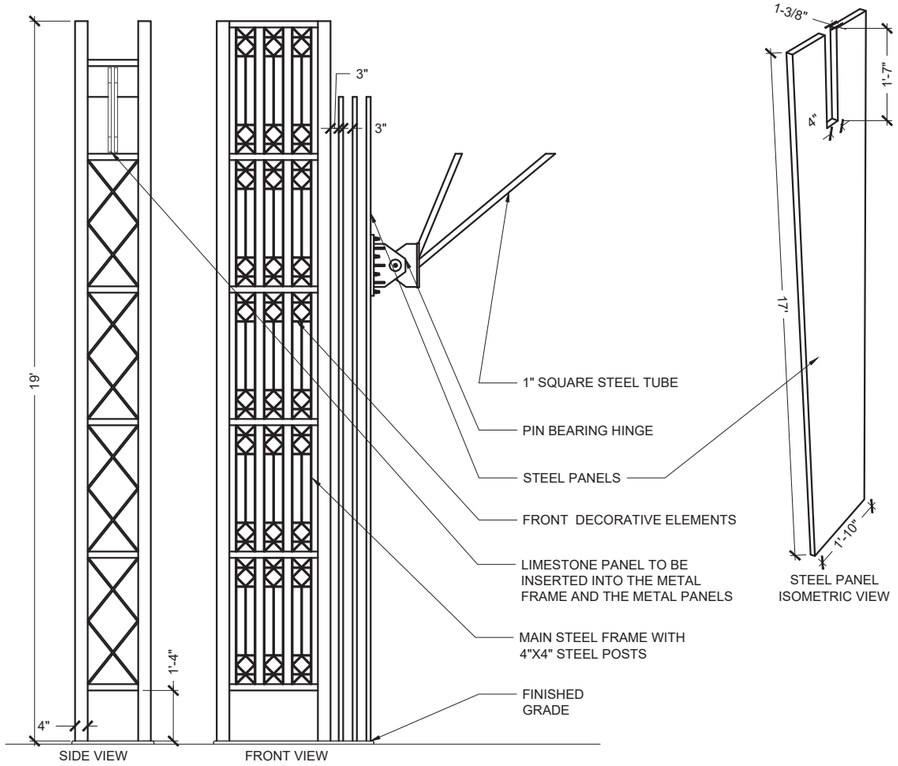


03 COMMUNITY IDENTIFIER - FOUNDATION DETAILS

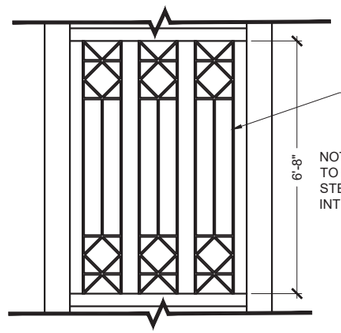
SCALE= 1 " = 1'-0"

L-6.12

CIVILTECH	DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET
	DRAWN - JDM, MA	REVISED -	LANDSCAPE DETAILS COMMUNITY IDENTIFIER
	CHECKED - PJH	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.
	DATE - 4/26/2024	REVISED -	COUNTY / TOTAL SHEETS 224 / SHEET NO. 132 / CONTRACT NO. / ILLINOIS FED. AID PROJECT

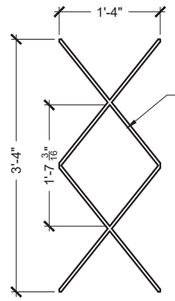


STEEL PANEL ISOMETRIC VIEW



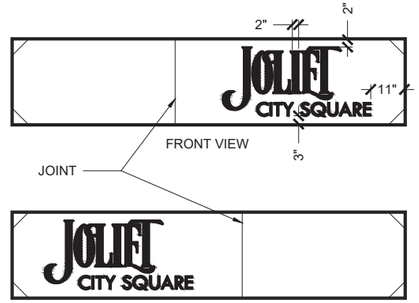
NOTE: 5 DECORATIVE STEEL BARS TO BE WELDED INTO THE MAIN STEEL FRAME AT REGULAR INTERVALS

FRONT DECORATIVE STEEL BARS DETAILS

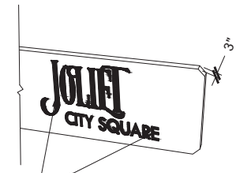


NOTE: 5 DECORATIVE STEEL BARS TO BE WELDED INTO THE MAIN STEEL FRAME AT REGULAR INTERVALS

SIDE DECORATIVE STEEL BARS DETAILS



BACK VIEW



LETTERS TO BE ENGRAVED IN THE STONE PANEL WITH 1" DEPTH, FILLED WITH BLACK EPOXY

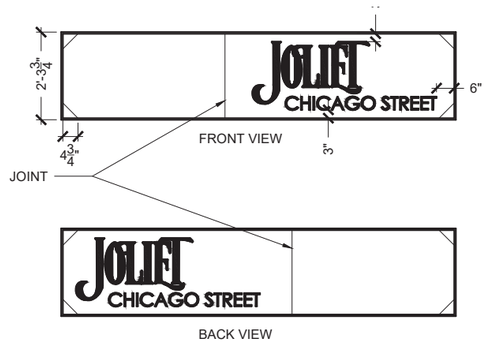
ISOMETRIC VIEW

01 COMMUNITY IDENTIFIER - FRAME DETAILS

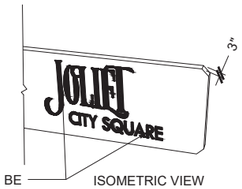
SCALE= ¼ " = 1'-0"

02 COMMUNITY IDENTIFIER - LIMESTONE PANEL DETAIL TYPE A

SCALE= ¼ " = 1'-0"



BACK VIEW



LETTERS TO BE ENGRAVED IN THE STONE PANEL WITH 1" DEPTH, FILLED WITH BLACK EPOXY

ISOMETRIC VIEW

DETAIL UNDER DEVELOPMENT

03 COMMUNITY IDENTIFIER - LIMESTONE PANEL DETAIL TYPE B

SCALE= ¼ " = 1'-0"

04 COMMUNITY IDENTIFIER - CONNECTION DETAILS

SCALE= ¼ " = 1'-0"

L-6.13

CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -
		DRAWN - JDM, MA	REVISED -
		CHECKED - PJH	REVISED -
		DATE - 4/26/2024	REVISED -

CITY OF JOLIET

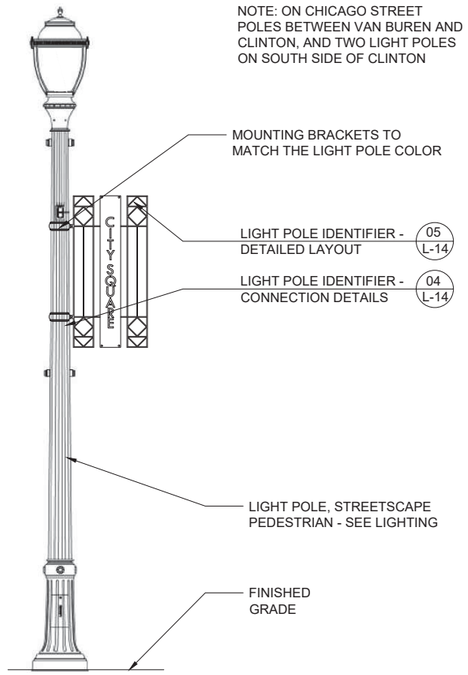
LANDSCAPE DETAILS
COMMUNITY IDENTIFIER

SCALE: | SHEET OF SHEETS | STA. TO STA.

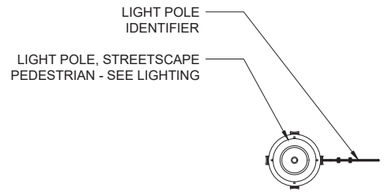
COUNTY	TOTAL SHEETS	SHEET NO.
	224	133

CONTRACT NO.

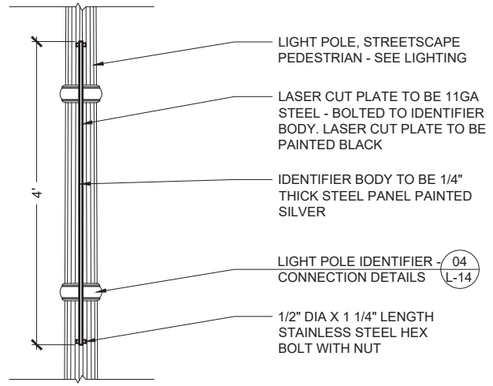
ILLINOIS | FED. AID PROJECT



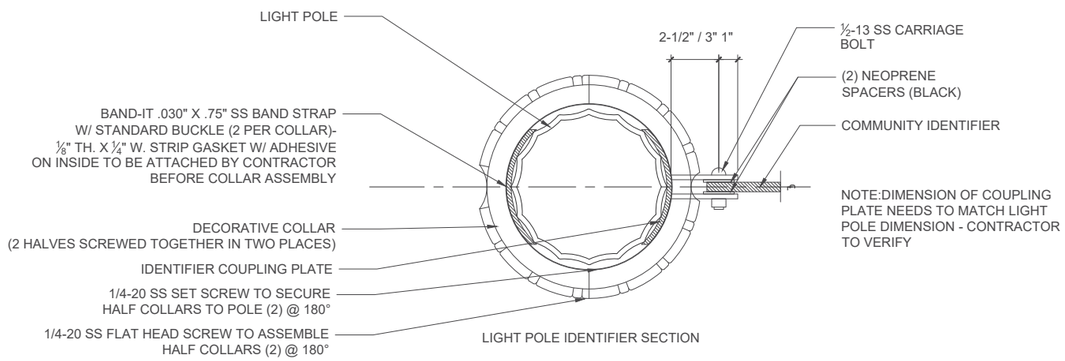
01 LIGHT POLE IDENTIFIER - FRONT ELEVATION
SCALE= $\frac{1}{2}$" = 1'-0"



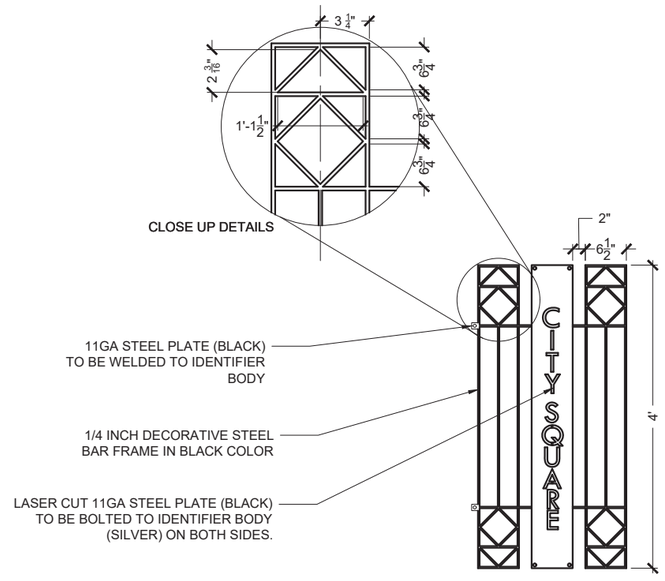
02 LIGHT POLE IDENTIFIER - PLAN
SCALE= 1 " = 1'-0"



03 LIGHT POLE IDENTIFIER - SIDE ELEVATION
SCALE= 1 " = 1'-0"



04 LIGHT POLE IDENTIFIER - CONNECTION DETAILS
SCALE= 3 " = 1'-0"



05 LIGHT POLE IDENTIFIER - DETAILED LAYOUT
SCALE= 1" = 1'-0"

L-6.14

CIVILTECH		DESIGNED - PJH, JDM, MA	REVISED -	CITY OF JOLIET	LANDSCAPE DETAILS LIGHT POLE IDENTIFIER		COUNTY / TOTAL SHEETS / SHEET NO.
		DRAWN - JDM, MA	REVISED -				224 / 134
		CHECKED - PJH	REVISED -				CONTRACT NO.
		DATE - 4/26/2024	REVISED -		SCALE: / SHEET OF SHEETS / STA. TO STA.		ILLINOIS / FED. AID PROJECT

JOLIET CITY SQUARE
SINGLE RECTANGLE FOUNTAIN
JOLIET, ILLINOIS
USA

DRAWING SHEET INDEX
FP PROJECT REF - P24566

		MAR 18, 2024 - ISSUED FOR REVIEW
GENERAL INFORMATION		
FC-0	COVER SHEET & DRAWING INDEX	/
FN-1	GENERAL NOTES, DESIGN STATEMENT & EQUIPMENT LIST	/
FOUNTAIN		
FD-1	FOUNTAIN EQUIPMENT DETAILS SHEET	/
FM-1	FOUNTAIN SITE PLAN	/
FM-2	FOUNTAIN DIMENSION PLAN	/
FM-3	FOUNTAIN SUCTION, DRAIN & VENT PIPING PLAN	/
FM-4	FOUNTAIN DISCHARGE & FILL PIPING PLAN	/
FM-5	DBVA DIRECT BURIAL VAULT INSTALLATION DETAIL SHEET 1	/
FM-6	DBVA DIRECT BURIAL VAULT INSTALLATION DETAIL SHEET 2	/
FE-1	FOUNTAIN ELECTRICAL PLAN	/

fountain people™
A PLAYCORE Company

"APPROVAL TO PROCEED BY CLIENT"

In order for Fountain People to proceed with procurement and fabrication of equipment outlined in this drawing package, the "Client" must provide notice that the documents enclosed are "Approved" or "Approved as Noted".

This cover sheet may act as the approving "notice to proceed" and may be returned to Fountain People in a reduced/scanned image.

Expected equipment delivery dates cannot be confirmed until Fountain People receives the "Approved" drawing notice AND the equipment proposal has been confirmed and agreed upon by all parties.

SIGNATURE PRINT/TYPE NAME

COMPANY NAME

DATE

FC-0

CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	COVER SHEET		
		DRAWN - JD	REVISED -			COUNTY	TOTAL SHEETS 224 / SHEET NO. 135
		CHECKED - WP	REVISED -				CONTRACT NO.
		DATE - 4/26/2024	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	ILLINOIS	FED. AID PROJECT

Design Operation Statement &Specifications

The Joliet City Square project includes (3) nearly icentical exterior water features, divided into two independent fountain systems refered to as the "Single Rectangle Fountain" and the "Double Rectangle Fountain". This package includes information for the Single Rectangle Fountain; please refer to the Double Rectangle Fountain drawing package for more information on it.

The Single Rectangle Fountain is in a planter area with surrounding seat wall. The fountain portion measures approximately 15'-1" x 5'-0". Water is introduced under five 11" square, rough split, limestone blocks located atop a larger stone slab. Water is introduced from under the small square blocks and flows around the perimeter of the larger stone slab. The water then falls into a common lower basin. The lower basin has grating and is covered in gravel as provided by others. Submersible ring lighting is located under the five limestone blocks and is concealed within the larger stone slab. In addition to the five ring lights, linear LED flex strip lighting is used to illuminate the under-edge perimeter of the stone slab. The water level is controlled by a standpipe and conduit mount water level sensor. The 2" standpipe can be removed to drain the basin. Fittings in the basin work with an underground equipment vault to provide the necessary equipment for filtration and recirculation of the water. This vault contains a 3-HP self-priming filter/display pump, TA40 sand filter, chemical feeder, fill manifold, disconnection switches and light switches and UL Listed Control Panel. The underground burial vault is in a landscape area adjacent to the fountain. The direct burial equipment vault is factory engineered, assembled and pressure tested prior to shipment.

Approximate calculations as field conditions may vary:

Fountain Lower Basin Area:	34.8 Sq Ft (Less the center stone slab support)
Lower Basin Water Depth:	18 Inches (1'-6")
Lower Basin Volume:	52.2 Cubic Feet, 391 Gallons
Shut Down Gain:	~ 1/4"
Display Requirements:	Qty (5) 1" discharge nozzle, 20 GPM each at 6 Feet of Head
Display Requirement Total:	100 GPM at 50 Feet of Head
Display Pump Capacity:	3-HP pump, 150 GPM at 50 Feet of Head
Filtration Requirement:	2 GPM @ 50 Feet of Head (4 Hour turnover rate)
Filtration Type:	Sand Filter, 40 GPM Max Filter Rate
Actual Filtration Rate:	40 GPM
Rate of Filtration Turnover:	10 minutes

Joliet City Square Single Rectangle Fountain Equipment List
Fountain People - 03/18/24

Item #	Qty	Component Number	Description
^01	5	FWS-100	Waterstop Fittng, cast bronze coupling with integral waterstop flange, bonding lug and 1" female threaded connections.
^02	2	PCS-32-B	VGB Compliant Plastic Channel Sump, dimensions: 33" x 4-9/32" x 5-9/16", three bottom ports: 2-2/2" spigot x 2" socket x 2" NPT, two 2" threaded plugs, #316 Stainless Steel fasteners, VGB Grate has 25.9 sq in open area for water flow, allowing 316 GPM @ 3.9 fps. IAPMO Listed VGB Suction: Compliant to ANSI/APSP - 16 2011 & CPSC Requirements. Color: Black.
^03	1	FSD-200-P24566	Overflow Standpipe Drain, 18-1/2"H, cast bronze body with integral waterstop flange and ground screw, cast bronze cap, copper standpipe, 2" FNPT connection.
04	1	CWL-002C	Conduit Mounted Water Level Sensor, cast bronze housing base with spun brass cover, dual function water level sensor with 100 feet of integral cable, 3/4" adjustability range. 1/2" female threaded conduit connection.
^05	10	FWS-050	Waterstop Fitting, cast bronze coupling with integral waterstop flange, bonding lug and 1/2" female threaded connections.
^06	2	ST-EF-200	Adjustable Eyeball Inlet Fitting, constructed of machined cast bronze and brass with bonding screw, 5/8" orifice eyeball, and 2" (F) N.P.T. connection.
07	2	FXPRO-FLEX-79	Flexible linear LED light, resin encapsulated- UV resistant, 24VDC, 36W, 79" length cut and seal end to field dimension
08	2	FXPRO-FLEX-197	Flexible linear LED light, resin encapsulated- UV resistant, 24VDC, 90W, 197" length cut and seal end to field dimension
09	5	FX-LED-RING-RGBW	LED Underwater Ring Light Fixtsre, type 304 stainless steel construction, 6.5" diameter, 1-1/1" x 1-1/4" transition adapter, tempered glass lens with silicone gasket, and 20feet of cable. 24V input voltage, 36 watts from (9) RGBW diodes.
09a	5	FX-LED-RING-ADP	LED Ring Light transition adapter. 1-1/2" x 1-1/4", stainless steel construction.
10	1	DBVA-P24566	Direct Burial Vault, fully pre-assembled and tested heavy duty FRP vault (4'-2" x 3'-4" x 4'-2" deep) with gel-coat interior and exterior, furnished with lockable fiberglass reinforced access hatch. The vault includes a 3-HP self-priming pump with integral basket strainer, TA40 sand filter, chemical feeder, 3/4" connection water fill manifold with solenoid valve, suction & discharge valve assemblies, sump pump with 2" check valve drain connection, 3" connection forced air ventilation system, LED Lighting control and UL listed electrical control panel in NEMA enclosure with motor starter, water level control relays, 24/7 digital timeclock, HOA switches, and a main disconnect switch.
11	2	VCA-300-P	Vent Cap Assembly, PVC construction, 3" connection

^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR.

WATER FEATURE SPECIFICATION NOTES

THE INSTALLER SHALL BE RESPONSIBLE FOR PURCHASING WATER FEATURE COMPONENTS, AS WELL AS PROVIDING LABOR AND MATERIALS REQUIRED EFFECTING THE INSTALLATION OF THE OPERATIONAL SYSTEMS AS DETAILED IN THE PLANS AND SPECIFICATIONS.

THE PRIME WATER FEATURE INSTALLER SHALL FURNISH FOUNTAIN ELECTRICAL COMPONENTS TO THE ELECTRICAL INSTALLER FOR INSTALLATION AND CONNECTION.

A SINGLE MANUFACTURER SHALL SUPPLY ELECTRICAL AND MECHANICAL WATER FEATURE COMPONENTS IN ORDER TO ENSURE THE INTEGRITY OF THE WATER FEATURE DESIGN. THE WATER FEATURE EQUIPMENT SHALL BE AS DESIGNED AND MANUFACTURED BY FOUNTAIN PEOPLE, INC., P.O. BOX 807, 4600 HWY 123 EAST, SAN MARCOS, TX 78666. (512) 392-1155. SUBSTITUTION OF WATER FEATURE MATERIALS SHALL REQUIRE WRITTEN APPROVAL BY THE PROJECT ARCHITECT OR LANDSCAPE ARCHITECT.

INSTALLERS OFFERING SUBSTITUTIONS SHALL SUBMIT THREE COPIES OF THE FOLLOWING DATA AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE FOR REVIEW AND APPROVAL:

1. COMPLETE WATER FEATURE SYSTEM FLOW DIAGRAM.
2. COMPLETE WATER FEATURE ELECTRICAL CONTROL PANEL LADDER LOGIC DIAGRAMS.
3. A COMPLETE BILL OF MATERIALS ALONG WITH SPECIFICATION CUTS OF PROPOSED SUBSTITUTE ITEMS.
4. A WRITTEN DESCRIPTION OF THE WATER FEATURE'S OPERATIONAL CYCLE.
5. A WRITTEN PERFORMANCE GUARANTEE BY THE ALTERNATE SYSTEM MANUFACTURER CERTIFYING THAT THE ALTERNATE SYSTEM WILL MEET THE SPECIFIED DESIGN CONCEPT AND PERFORMANCE REQUIREMENTS. FAILURE TO SUBMIT FOR PRIOR APPROVAL OF SUBSTITUTIONS WILL BE GROUNDS FOR REJECTION. WITHIN TEN WORKING DAYS OF AWARD OF CONTRACT, INSTALLER SHALL SUBMIT FIVE COPIES OF MANUFACTURERS' DETAILED DATA SHEETS AND SUBMITTAL DRAWINGS OF WATER FEATURE COMPONENTS FOR APPROVAL PRIOR TO INSTALLATION. UPON COMPLETION OF THE PROJECT, INSTALLER SHALL PROVIDE THREE COPIES OF OWNER'S OPERATION AND MAINTENANCE MANUALS. MANUALS SHALL BE PROVIDED ON COMPACT DISCS WITH ALL PORTIONS IN A PRINTABLE FORMAT, AND SHALL INCLUDE OPERATING AND MAINTENANCE PROCEDURES ALONG WITH MANUFACTURERS' DATA SHEETS AND SYSTEM DRAWINGS.

GENERAL NOTES

THE WATER FEATURE MECHANICAL AND ELECTRICAL DRAWINGS ARE DIAGRAMMATIC, INTENDED TO INDICATE THE SCOPE OF THE WORK TO BE DONE. EQUIPMENT AND MATERIAL LOCATIONS MAY BE DISTORTED FOR CLARITY IN PRESENTATION.

QUESTIONS PERTAINING TO WORK THAT DOES NOT APPEAR TO BE SUFFICIENTLY DETAILED OR EXPLAINED, OR PERTAINING TO THE TRUE MEANING OF A PART OF THE DRAWINGS OR SPECIFICATIONS, OR DISCREPANCIES FOUND EXISTING IN OR BETWEEN THE SPECIFICATIONS AND DRAWINGS, SHALL BE REFERRED TO THE ARCHITECT OR LANDSCAPE ARCHITECT FOR CLARIFICATION.

ITEM NUMBERS CORRESPOND TO THE BILL OF MATERIALS AND SHALL BE FURNISHED BY THE EQUIPMENT MANUFACTURER. THE INSTALLER SHALL FURNISH OTHER MATERIALS, LABOR, TOOLS, EQUIPMENT, APPARATUS, AND SERVICES, WHICH ARE REQUIRED TO COMPLETE THE INSTALLATION OF THE WATER FEATURE SYSTEM.

MECHANICAL NOTES

1. THIS INSTALLATION SHALL COMPLY WITH LOCAL PLUMBING CODES.
2. PIPING LOCATED WITHIN A POOL BASIN, AND STUB-UPS THROUGH A POOL FLOOR OR WALLS OF A BASIN, SHALL BE OF BRASS PIPE, TYPE K COPPER TUBING OR STAINLESS STEEL.
3. INSTALLER SHALL SUPPLY WATERSTOP PROTECTION FOR PIPING PENETRATING POOL FLOOR OR WALLS AND FOR FITTINGS CAST THEREIN UNLESS OTHERWISE SPECIFIED WITHIN THESE DRAWINGS AND EQUIPMENT LISTS.
4. INTERCONNECTING PIPE AND FITTINGS BETWEEN THE POOL BASIN AND THE PUMP EQUIPMENT ROOM SHALL BE OF COPPER, MINIMUM-SCHEDULE 40 PVC, STAINLESS STEEL OR FIBERGLASS.
5. PRESSURIZED CITY WATER LINES SUPPLYING THE WATER FEATURE SYSTEM SHALL BE OF COPPER AND SHALL BE PROTECTED BY A BACKFLOW PREVENTION DEVICE AND PRESSURE REDUCTION VALVE SET AT 50 PSI MAXIMUM.
6. PIPING RUNS SHALL BE MADE AS DIRECT AS POSSIBLE USING THE MINIMUM NUMBER OF FITTINGS. PIPE SHALL SLOPE TO THE PUMP FOR DRAINAGE AND SHALL BE FREE OF TRAPS OR LOOPS THAT COULD TRAP WATER OR AIR.
7. IF PIPING CANNOT BE SLOPED TO PUMP, MAKE PROVISIONS FOR COMPLETE DRAINING OF EACH PIPE WITH A MINIMUM 1 1/2" LINE AND VALVE AT THE LOWEST POINT.
8. PUMP SUCTION INTAKE AND SUCTION PIPING SHALL BE ROUTED TO AN ELEVATION BELOW THE WATER LEVEL OF THE LOWEST BASIN SO THAT BOTH THE PUMP AND THE SUCTION PIPING ARE COMPLETELY FLOODED WHEN THE WATER FEATURE SYSTEM IS FILLED UNLESS OTHERWISE SPECIFIED HEREIN.
9. PIPING SHALL BE PRESSURE TESTED PRIOR TO BACK-FILLING AND SHALL BE PROPERLY SUPPORTED.
10. INSTALLER SHALL PROVIDE DRAINAGE AND VENTILATION IN AN EQUIPMENT PUMP ROOM IN ORDER TO PREVENT FLOODING, CONDENSATION, OR OVERHEATING OF EQUIPMENT.

ELECTRICAL NOTES

1. UNDERWATER ELECTRICAL EQUIPMENT CAN CAUSE FATAL ELECTRICAL SHOCK IF NOT INSTALLED PROPERLY. THIS INSTALLATION HAS BEEN DESIGNED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, ARTICLE 680. INSTALLER SHALL INSTALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 680 AND LOCAL ELECTRICAL CODES.
2. A CLASS 'A' GROUND FAULT CIRCUIT INTERRUPTER (GFCI) SHALL BE INSTALLED ON CIRCUITS THAT HAVE AN OPERATING VOLTAGE GREATER THAN 15 VOLTS AND THAT SUPPLY WATER FEATURE EQUIPMENT LOCATED WITHIN BASINS. EQUIPMENT OPERATING AT LESS THAN 15 VOLTS SHALL BE PROTECTED BY A TRANSFORMER WHICH IS UL LISTED AND MARKED FOR THE APPLICATION.
3. UNLESS UL LISTED FOR EITHER WET OR DRY OPERATION, UNDERWATER LIGHT FIXTURES SHALL BE INSTALLED SO THAT THEY ARE SUBMERGED WHEN IN OPERATION, SHALL BE PROTECTED BY A LENS GUARD IF POINTED UPWARD, AND SHALL BE PROTECTED BY AN INTEGRAL THERMAL CUTOFF DEVICE TO PREVENT OVERHEATING.
4. UNDERWATER LIGHT FIXTURES SHALL BE INSTALLED WITH SUFFICIENT CORD LENGTH TO ALLOW REMOVAL FROM THE WATER FOR RELAMPING AND NORMAL MAINTENANCE WITHOUT LOWERING THE BASIN WATER LEVEL.
5. UNDERWATER JUNCTION BOXES SHALL BE EQUIPPED WITH THREADED CONDUIT ENTRIES AND STRAIN RELIEF SEALS FOR CORD ENTRY. STRAIN RELIEF SEALS SERVING NICHE MOUNTED FIXTURES SHALL MAKE PROVISION FOR BOTH THE FIXTURE CORD AND AN AWG #8 COPPER BONDING WIRE WHEN REQUIRED BY LOCAL CODE.
6. UNDERWATER JUNCTION BOXES, OR JUNCTION BOXES MOUNTED OUTSIDE THE BASIN BUT BELOW THE WATER LEVEL, SHALL BE POTTED USING 3M "GELLA" 8882 RE-ENTERABLE POTTING COMPOUNDS. CONDUIT ENTRIES SHALL BE SEALED PRIOR TO POTTING THE JUNCTION BOX TO PREVENT POTTING COMPOUND FROM ENTERING THE CONDUIT SYSTEM.
7. STUB-UPS FOR CONDUIT MOUNTED UNDERWATER JUNCTION BOXES MUST BE OF RED BRASS PIPE OR STAINLESS STEEL. NON-METALLIC CONDUIT MAY NOT BE USED FOR SUPPORT OF JUNCTION BOXES.
8. WIRE PULLED BETWEEN WATER FEATURE ELECTRICAL CONTROLS PANELS AND UNDERWATER JUNCTION BOXES SHALL BE OF STRANDED COPPER, WATER-RESISTANT TYPE SELECTED AND SIZED FOR THE APPLICATION.
9. CONDUIT SHALL BE SEALED TO PREVENT ENTRY OF MOISTURE AND TO PREVENT WATER FROM DRAINING INTO THE WATER FEATURE ELECTRICAL CONTROL PANELS.

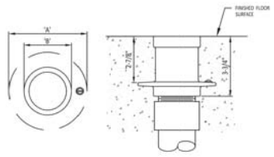
FN-1

CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	GENERAL NOTES, DESIGN STATEMENT & EQUIPMENT LISTS		COUNTY / TOTAL SHEETS / SHEET NO.
		DRAWN - JD	REVISED -				224 / 136
		CHECKED - WP	REVISED -				CONTRACT NO.
		DATE - 4/26/2024	REVISED -		SCALE: SHEET OF SHEETS STA. 1" = 40'-0" TO STA.		ILLINOIS FED. AID PROJECT

FWS-SERIES WATERSTOP FITTING

PRODUCT SPECIFICATION:
FWS-Series Waterstop Fitting; consists of a coupling with an integral waterstop plate, bonding lug and female threaded connections. Construction shall be of cast bronze, copper and brass with a natural finish.





PLAN VIEW ELEVATION VIEW

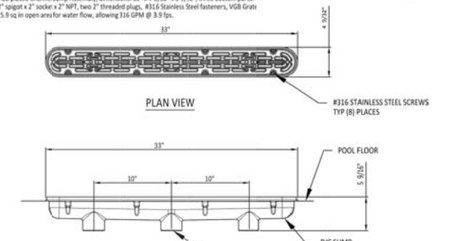
ENGINEERING DATA			
MODEL #	FNPT	Measurements	
		"A"	"B"
FWS-050	1/2"	3-1/2"	1-3/4"
FWS-075	3/4"	3-1/2"	1-3/4"
FWS-100	1"	5"	1-3/4"
FWS-125	1-1/4"	5"	3"
FWS-150	1-1/2"	5"	3"
FWS-200	2"	5"	3"
FWS-300	3"	7"	5-1/4"
FWS-400	4"	7"	5-1/4"

ITEM # 01 QTY(5)

PCS-32 32" VGB CHANNEL SUMP

PRODUCT SPECIFICATION:
32" VGB plastic Channel Sump Assembly, dimensions: 33" x 4-9/32" x 5-9/16", three bottom ports: 2-2/2" spigot x 2" socket x 2" NPT, two 2" threaded plugs, #316 Stainless Steel fasteners, VGB Grate has 25.9 sq in open area for water flow, allowing 116 GPM @ 3.9 fps.





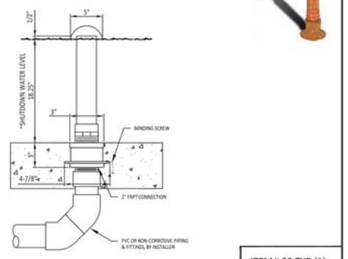
PLAN VIEW ELEVATION VIEW

ITEM # 02 QTY(2)

FSD-200-P24566 OVERFLOW STANDPIPE

PRODUCT SPECIFICATION:
FSD-Series 2" Overflow Standpipe Drain; consistsof an integral waterstop flange with female threaded connection, gound screw and a removable standpipe drain with secured dome. Construction is of cast bronze with copper standpipe and cast bronze dome in natural finish.



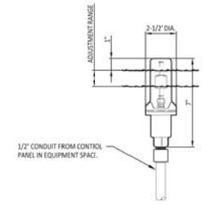


ITEM # 03 TYP (1)

CWL-002C WATER LEVEL CONTROL SENSOR

PRODUCT SPECIFICATION:
Conduit Mount Water level Sensor, cast bronze housing base with spun brass cover, dual function water level sensor with 100' feet of integral cable, 3/4" adjustability rangs. 1/2" female threaded conduit connection.





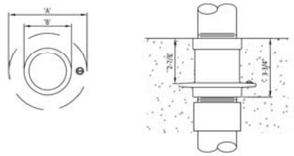
ELEVATION VIEW

ITEM # 04 QTY(1)

FWS-050 WATERSTOP FITTING

PRODUCT SPECIFICATION:
FWS-Series Waterstop Fitting; consists of a coupling with an integral waterstop plate, bonding lug and female threaded connections. Construction shall be of cast bronze, copper and brass with a natural finish.





PLAN VIEW ELEVATION VIEW

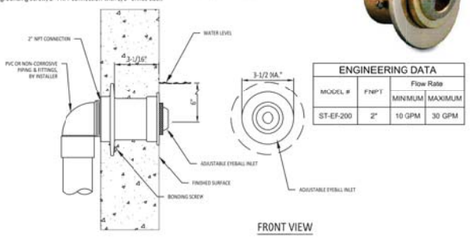
ENGINEERING DATA			
MODEL #	FNPT	Measurements	
		"A"	"B"
FWS-050	1/2"	3-1/2"	1-3/4"
FWS-075	3/4"	3-1/2"	1-3/4"
FWS-100	1"	5"	1-3/4"
FWS-125	1-1/4"	5"	3"
FWS-150	1-1/2"	5"	3"
FWS-200	2"	5"	3"
FWS-300	3"	7"	5-1/4"
FWS-400	4"	7"	5-1/4"

ITEM # 05 QTY(10)

ST-EF-200 ADJUSTABLE EYEBALL INLET FITTING

PRODUCT SPECIFICATION:
ST-EF-Series Stream Eyeball Inlet Fitting directs dibris to skimmers and improve water circulation; constructed of cast machined bronze and brass body with a natural finish, integral waterstop with grounding screw, 2" FNT connection with 5/8" orifice size.





FRONT VIEW

ENGINEERING DATA			
		Flow Rate	
MODEL #	FNPT	MINIMUM	MAXIMUM
ST-EF-200	2"	10 GPM	30 GPM

ITEM # 06 QTY(2)

FXPRO-FLEX-SERIES LED LINEAR LIGHT FIXTURE

PRODUCT SPECIFICATION:
FXPRO-FLEX-SERIES, Underwater flexible linear LED light fixture; Flexible resin encapsulated body, flexible up to 150mm radius, UV resistant, fixture is able to be trimmed and sealed to required length, includes 20 feet of submersible cable. Installation requires SS spring type clips - 16mm (0.629")W x 6.2mm(0.244") with recommended pacing every 250mm (9.84")



ENGINEERING DATA				
	MODEL NO.#	LENGTH	Input V	Wattage RGB-DMX	Wattage White
ITEM # 07 →	FXPRO-FLEX-20	20"	24VDC	9W	5W
	FXPRO-FLEX-39	39"	24VDC	18W	10W
ITEM # 08 →	FXPRO-FLEX-79	79"	24VDC	36W	10W
ITEM # 08 →	FXPRO-FLEX-197	197"	24VDC	90W	50W

ENGINEERING DATA
NOTES:
1) UNDERWATER JUNCTION BOX REQUIRED. SIZE BASED ON LIGHT QUANTITY. SEE CATALOG ITEM: LJP-SERIES
2) WATERSTOP FITTING REQUIRED FOR CONCRETE POUR. SIZE BASED ON WIRE/CONDUIT SIZE. (SEE CATALOG ITEM: FWS-SERIES)
3) IP66/IP68 WOR RATED - RECOMMENDED ABOVE WATER LINE FOR LONG TERM INSTALLATION.

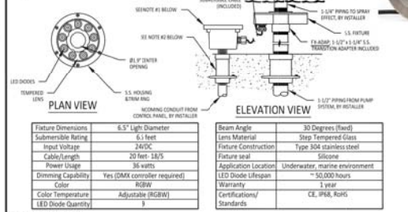
ITEM # 07 QTY(2)

ITEM # 08 QTY(2)

FX-LED-RING-RGBW LIGHT FIXTURE

PRODUCT SPECIFICATION:
FX-LED-RING-SERIES, Underwater LED Ring style light fixture; 6.5" diameter, type 304 stainless steel housing and trim ring, fixture includes tempered glass lens with silicone gasket, entry cord seal and 20 feet of submersible cable. 27 watt fixture is available in either RGB (-RGB) or White (-W) (9) diode configuration.





PLAN VIEW ELEVATION VIEW

Fixture Dimensions	6.5" Ligh Diameter
Submersible Rating	6.1 feet
Input Voltage	24VDC
Cable/Length	20 feet- 18/5
Power Usage	36 watts
Dimming Capability	Yes (DMX corroller required)
Color	RGBW
Color Temperature	Adjustable (RGBW)
LED Diode Quantity	9

Beam Angle	30 Degrees (fixed)
Lens Material	Step Tempered Glass
Fixture Construction	Type 304 stainless steel
Fixture seal	Silicone
Application Location	Underwater, marine environment
LED Diode Lifespan	~ 50,000 hours
Warranty	1 year
Certifications/ Standards	CE, IP68, RoHS

ENGINEERING DATA

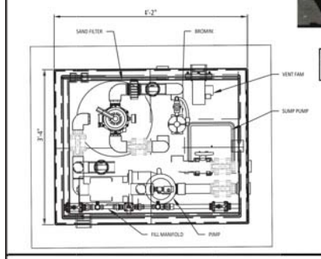
CATALOG #	DIM 'A'	DIM 'B'	NOTES:
FX-LED-RING-RGBW	2.125"	6.5"	1) UNDERWATER JUNCTION BOX REQUIRED. SIZE BASED ON LIGHT QUANTITY. SEE CATALOG ITEM: LJP-SERIES
FX-LED-RING-W	2.125"	6.5"	2) WATERSTOP FITTING REQUIRED FOR CONCRETE POUR. SIZE BASED ON WIRE/CONDUIT SIZE. (SEE CATALOG ITEM: FWS-SERIES) 3) 1-1/2" WATERSTOP FITTING REQUIRED FOR CONCRETE POUR. (SEE CATALOG ITEM: FWS-150)

ITEM # 09 QTY(5)

DBVA-P24566 DIRECT BURIAL VAULT

PRODUCT SPECIFICATION:
Direct Burial Vault, fully pre-assembled and testsd heavy duty FRP vault (4'-2" x 3'-4" x 4'-2" deep) with gel-coat interior and exterior, furnished with lockable Fiberglass reinforced access hatch. The vault includes a 3-HP self-priming pump with integral basket strainer, TAAD sand filter, chemical feeder, 3/4" connection water fill manifold with solenoid valve, suction & discharge valve assemblies, sump pump with 2" check valve drain connection, 3" connection forced air ventilation system, and a UL listed electrical control panel in NEMA enclosure with motor starter, water level control relays, 24/7 digital timeclock, HOA switches, and a main disconnect switch.



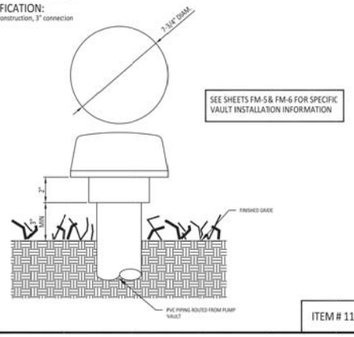


SEE SHEETS FM-5 & FM-6 FOR SPECIFIC VAULT INSTALLATION INFORMATION

ITEM # 10 QTY(1)

VCA-300-P VENT CAP

PRODUCT SPECIFICATION:
Vent Cap Assembly, PVC construction, 3" connection



ITEM # 11 QTY(2)

FD-1

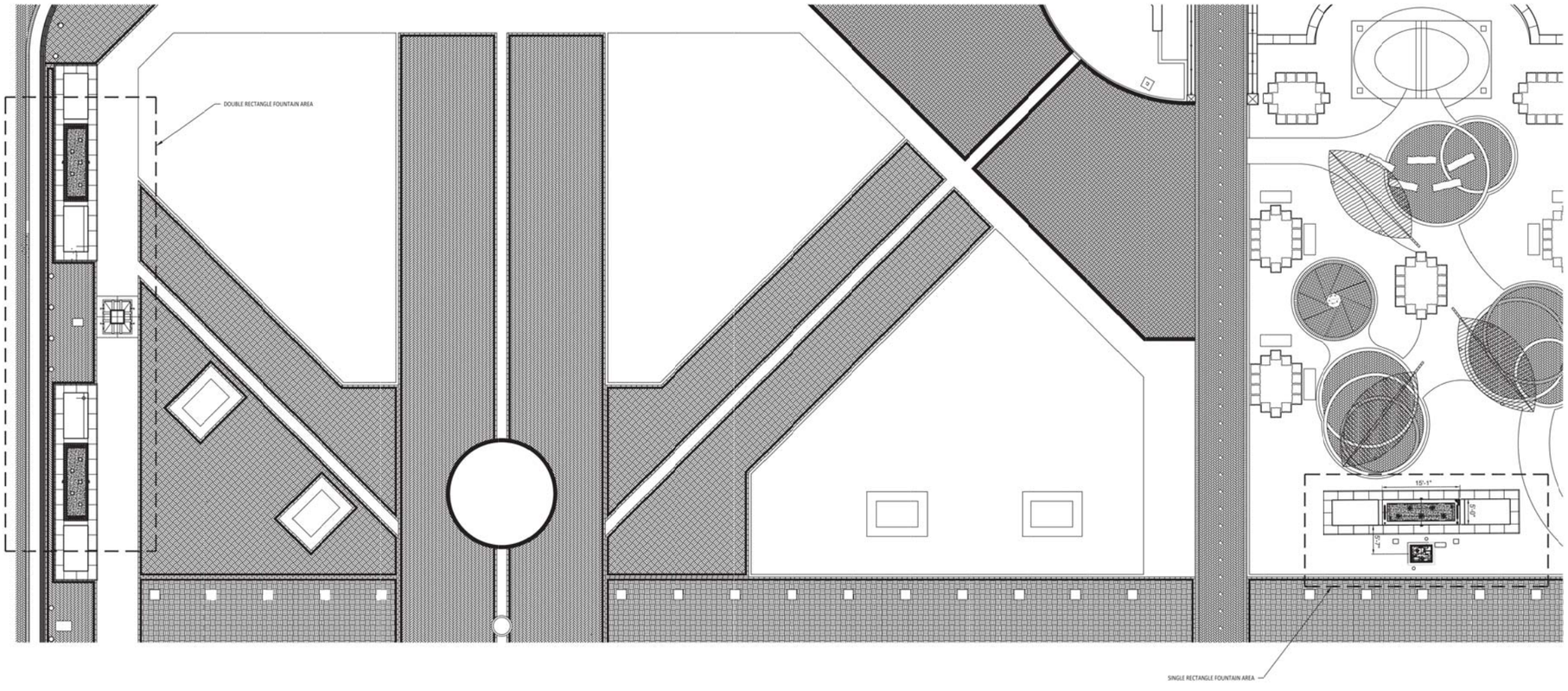
CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	FOUNTAIN EQUIPMENT DETAILS SHEET		COUNTY / TOTAL SHEETS / SHEET NO.
		DRAWN - JD	REVISED -				224 / 137
		CHECKED - WP	REVISED -				CONTRACT NO.
		DATE - 4/26/2024	REVISED -		SCALE: / SHEET OF SHEETS / STA. 1" = 40'-0" / TO STA.		ILLINOIS / FED. AID PROJECT

NOTE:
ARCHITECTURAL DETAILING SHOWN FOR REFERENCE ONLY.

Joliet City Square
Single Rectangle Fountain
Equipment List
Fountain People 03/18/24

Item #	Qty	Component Number	Description
^01	5	FWS-100	1" Waterstop Fitting
^02	2	PCS-32-B	VGB Compliant Plastic Channel Sump
^03	1	FSD-200-P24566	Overflow Standpipe Drain
04	1	CWL-002C	Conduit Mounted Water Level Sensor
^05	10	FWS-050	1/2" Waterstop Fitting
^06	2	ST-EF-200	Adjustable Eyeball Inlet Fitting
07	2	FXPRO-FLEX-79	LED Underwater Flex Light
08	2	FXPRO-FLEX-197	LED Underwater Flex Light
09	5	FX-LED-RING-RGBW	LED Underwater Ring Light
09a	5	FX-LED-RING-ADP	LED Ring Light Adapter
10	1	JBVA-P24427	Direct Burial Vault
11	2	VCA-300-P	Vent Cap Assembly, 3"

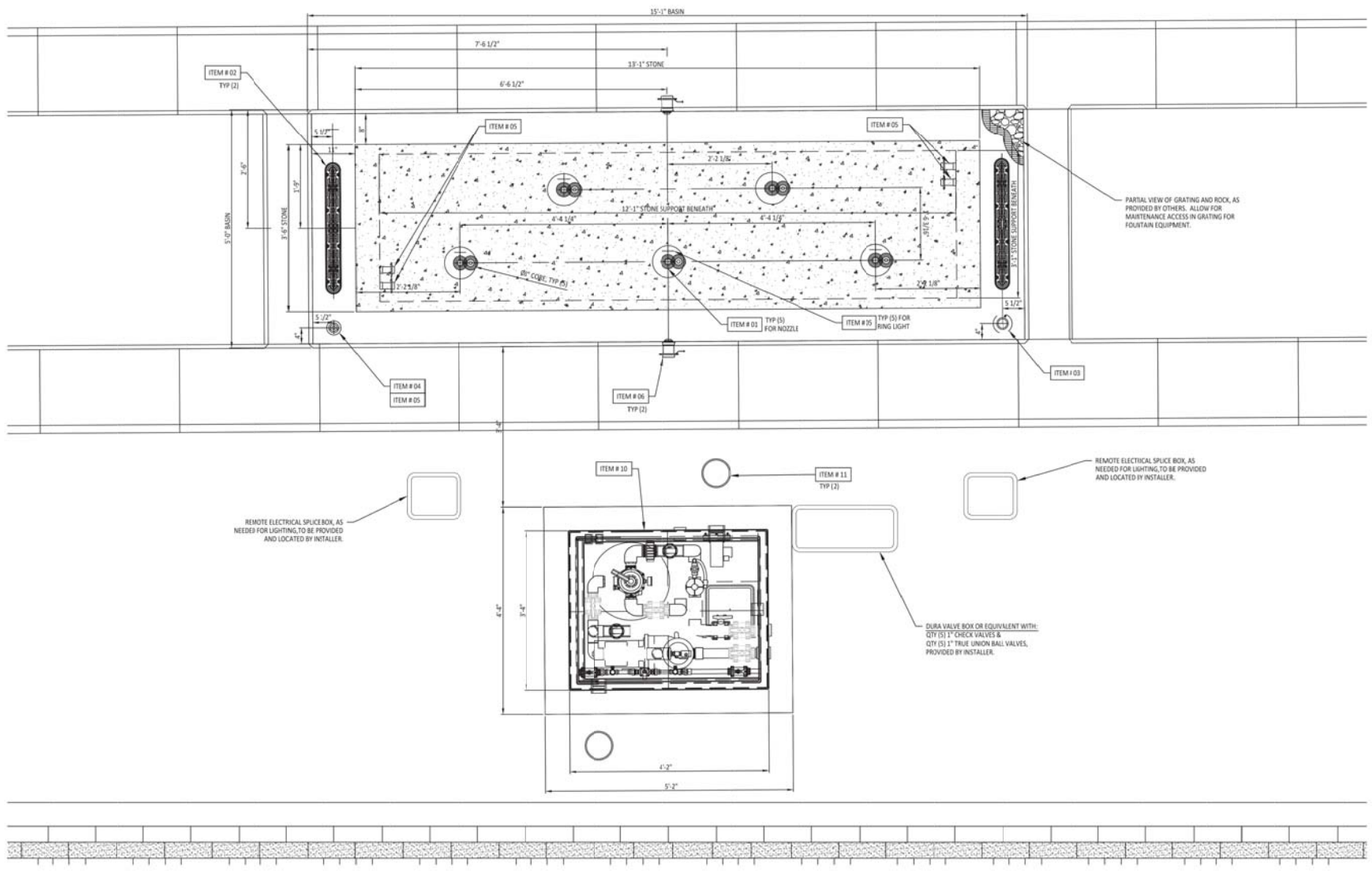
^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR



FM-1

CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	FOUNTAIN SITE PLAN		COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JD	REVISED -					224	138
		CHECKED - WP	REVISED -				CONTRACT NO.		
		DATE - 4/26/2024	REVISED -		SCALE:	SHEET OF SHEETS STA. TO STA.	ILLINOIS	FED. AID PROJECT	

NOTE:
LIGHTING FIXTURES AND LIMESTONE BLOCK ABOVE NOZZLES HIDDEN FOR CLARITY.



Joliet City Square
Single Rectangle Fountain
Equipment List
Fountain People 03/18/24

Item #	Qty	Component Number	Description
^01	5	FWS-100	1" Waterstop Fitting
^02	2	PCS-32-B	YGB Compliant Plastic Channel Sump
^03	1	FSD-200-P24566	Overflow Standpipe Drain
04	1	CWL-002C	Conduit Mounted Water Level Sensor
^05	10	FWS-050	1/2" Waterstop Fitting
^06	2	ST-EF-200	Adjustable Eyeball Inlet Fitting
07	2	FXPRO-FLEX-79	LED Underwater Flex Light
08	2	FXPRO-FLEX-197	LED Underwater Flex Light
09	5	FX-LED-RING-RGBW	LED Underwater Ring Light
09a	5	FX-LED-RING-ADP	LED Ring Light Adapter
10	1	DBVA-P24427	Direct Burial Vault
11	2	VCA-300-P	Vent Cap Assembly, 3"

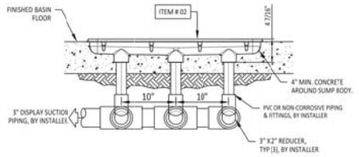
^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR.

NOTE:
ARCHITECTURAL DETAILING SHOWN FOR REFERENCE ONLY.

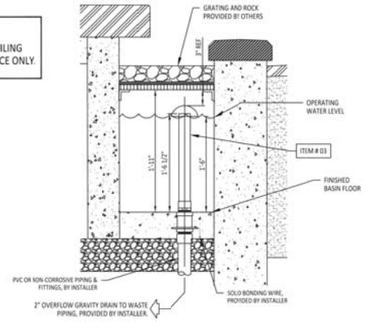
FM-2

CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	FOUNTAIN DIMENSION PLAN		COUNTY	TOTAL SHEETS 224 / SHEET NO. 139
		DRAWN - JD	REVISED -					CONTRACT NO.
		CHECKED - WP	REVISED -					
		DATE - 4/26/2024	REVISED -		SCALE:	SHEET OF SHEETS	STA. 1" = 40'-0" TO STA.	ILLINOIS FED. AID PROJECT

NOTE:
ARCHITECTURAL DETAILING SHOWN FOR REFERENCE ONLY.



SECTION 'A'
SCALE: 1" = 1'-0"



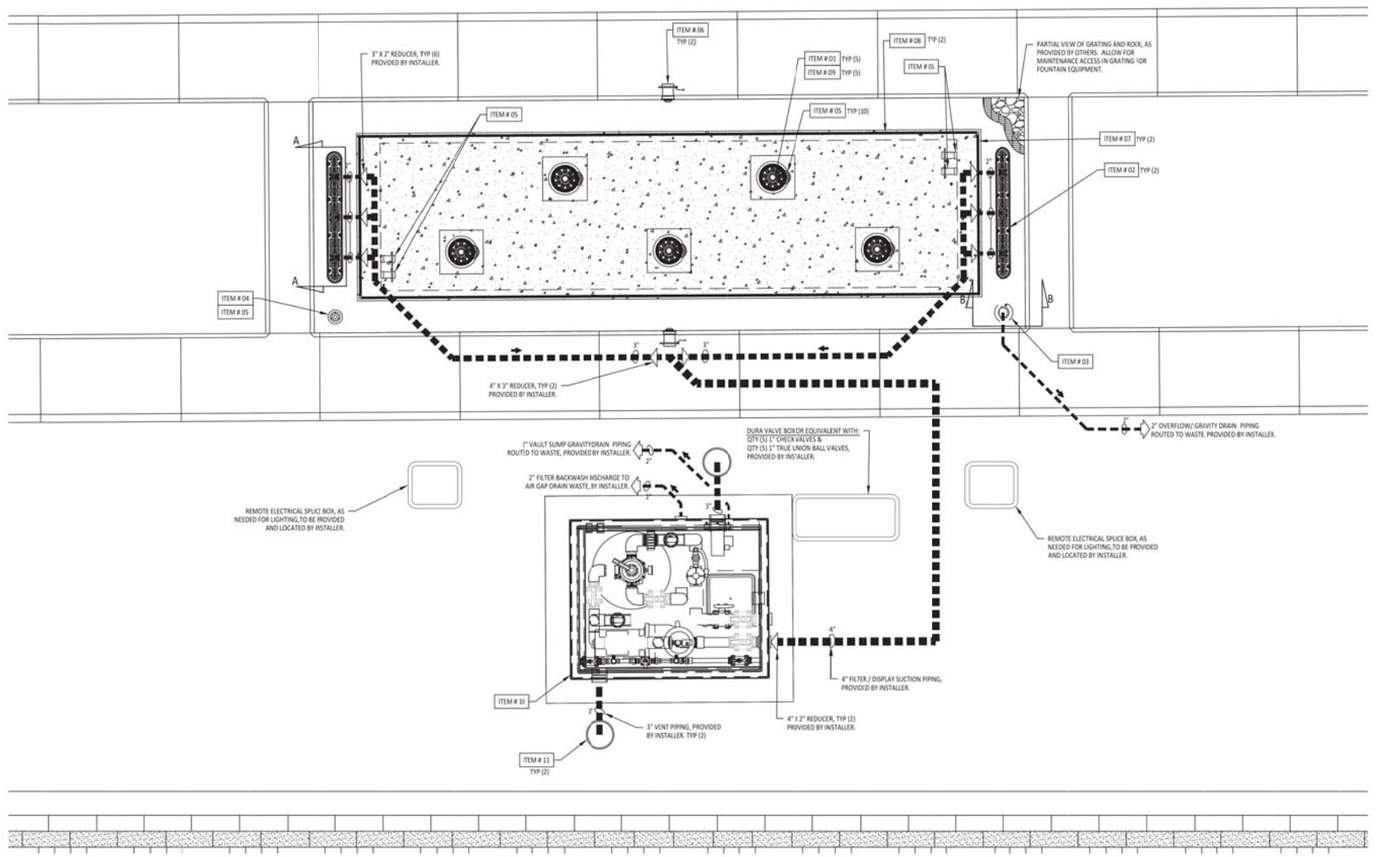
SECTION 'B'
SCALE: 1" = 1'-0"

Joliet City Square
Single Rectangle Fountain
Equipment List
Fountain People 03/18/24

Item #	Qty	Component Number	Description
^01	5	FWS-100	1" Waterstop Fitting
^02	2	PCS-32-B	VGB Compliant Plastic Channel Sump
^03	1	FSD-200-P24566	Overflow Standpipe Drain
04	1	CWL-002C	Conduit Mounted Water Level Sensor
^05	10	FWS-050	1/2" Waterstop Fitting
^06	2	ST-EF-200	Adjustable Eyeball Inlet Fitting
07	2	FXPRO-FLEX-79	LED Underwater Flex Light
08	2	FXPRO-FLEX-197	LED Underwater Flex Light
09	5	FX-LED-RING-RGBW	LED Underwater Ring Light
09a	5	FX-LED-RING-ADP	LED Ring Light Adapter
10	1	DBVA-P24427	Direct Burial Vault
11	2	VCA-300-P	Vent Cap Assembly, 3"

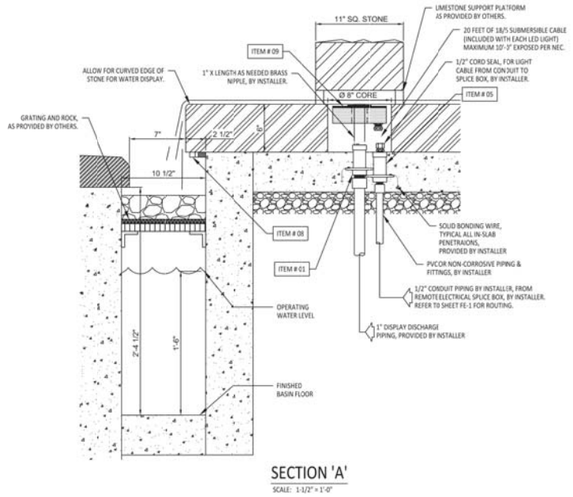
^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR

NOTE: ALL PIPING AND CONDUITS SHOWN ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO REPRESENT THE ACTUAL PIPE ROUTING FOR THIS PROJECT.



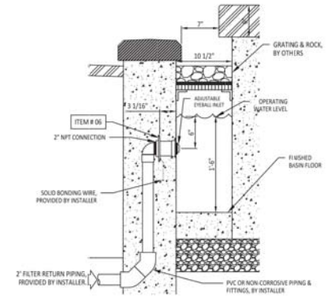
FM-3

CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	FOUNTAIN SUCTION, DRAIN & VENT PLAN			COUNTY	TOTAL SHEETS 224 / SHEET NO. 140
		DRAWN - JD	REVISED -						
		CHECKED - WP	REVISED -						CONTRACT NO.
		DATE - 4/26/2024	REVISED -		SCALE:	SHEET OF SHEETS	STA. 1" = 40'-0" TO STA.	ILLINOIS	FED. AID PROJECT



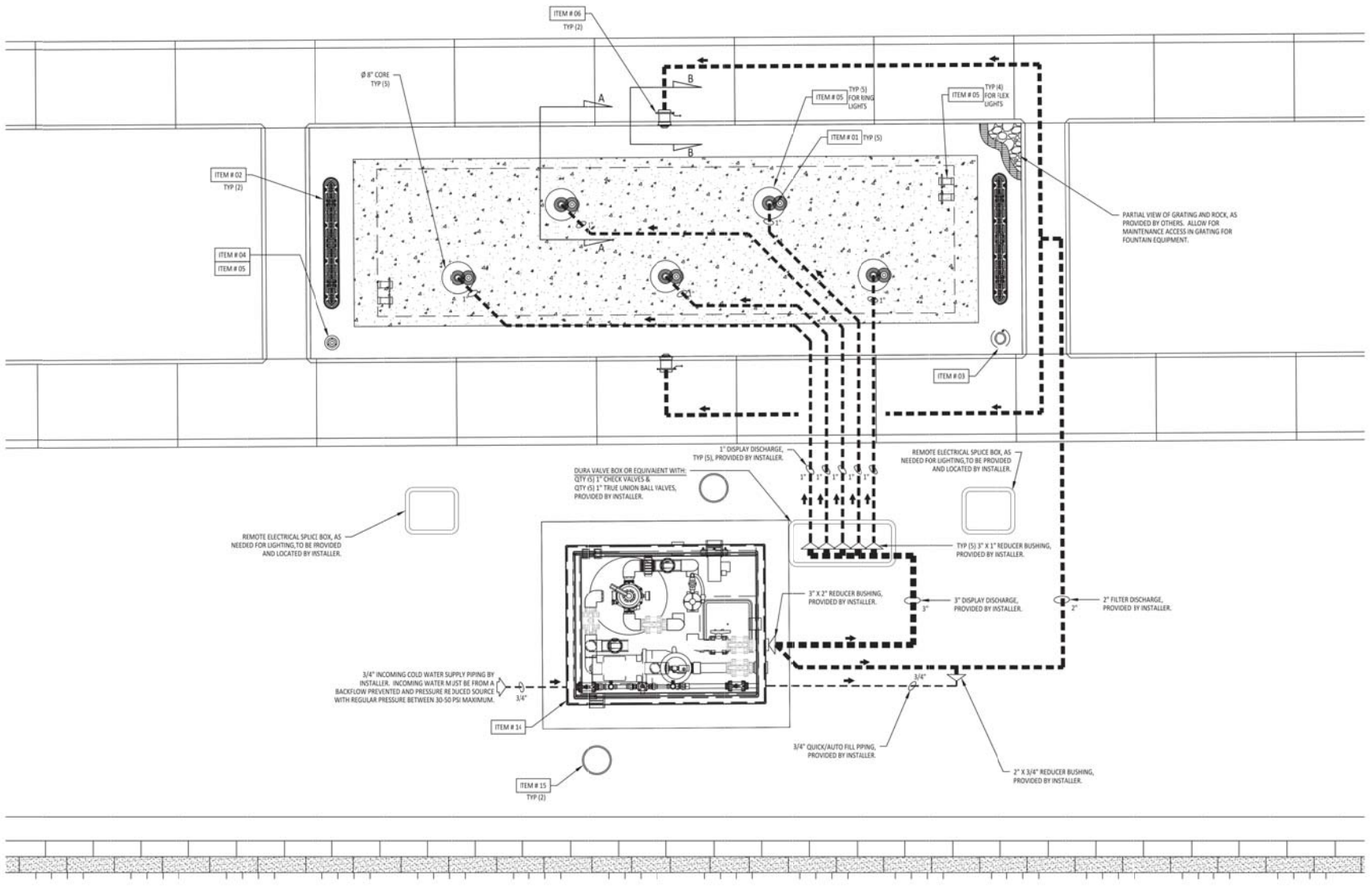
SECTION 'A'

SCALE: 1-1/2" = 1'-0"



SECTION 'B'

SCALE: 1" = 1'-0"



Joliet City Square
Single Rectangle Fountain
Equipment List
Fountain People 03/18/24

Item #	Qty	Component Number	Description
^01	5	FWS-100	1" Waterstop Fitting
^02	2	PCS-32-B	VGB Compliant Plastic Channel Sump
^03	1	FSD-200-P24566	Overflow Standpipe Drain
04	1	CWL-002C	Conduit Mounted Water Level Sensor
^05	10	FWS-050	1/2" Waterstop Fitting
^06	2	ST-EF-200	Adjustable Eyeball Inlet Fitting
07	2	FXPRO-FLEX-79	LED Underwater Flex Light
08	2	FXPRO-FLEX-197	LED Underwater Flex Light
09	5	FX-LED-RING-RGBW	LED Underwater Ring Light
09a	5	FX-LED-RING-ADP	LED Ring Light Adapter
10	1	DBVA-P24427	Direct Burial Vault
11	2	VCA-300-P	Vent Cap Assembly, 3"

^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR.

NOTE: ALL PIPING AND CONDUITS SHOWN ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO REPRESENT THE ACTUAL PIPE ROUTING FOR THIS PROJECT.

NOTE:
ARCHITECTURAL DETAILING SHOWN FOR REFERENCE ONLY.

NOTE:
LIGHTING FIXTURES AND LIMESTONE BLOCK ABOVE NOZZLES HIDDEN FOR CLARITY.

FM-4

CIVILTECH

	DESIGNED - JD	REVISED -	
	DRAWN - JD	REVISED -	
	CHECKED - WP	REVISED -	
	DATE - 4/26/2024	REVISED -	

CITY OF JOLIET

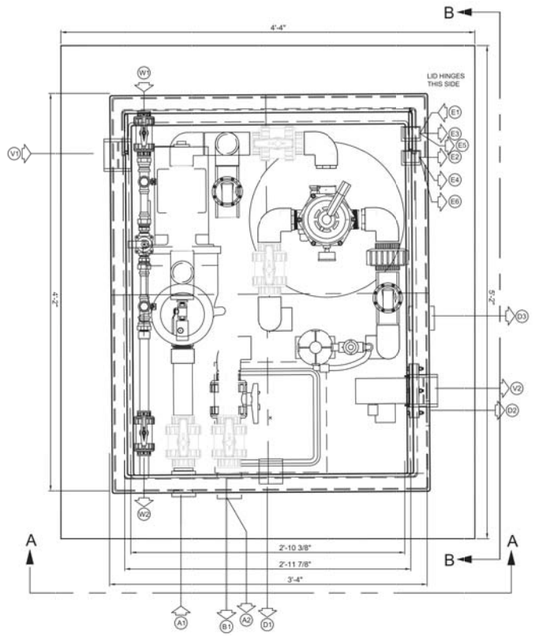
FOUNTAIN DISCHARGE & FILL PLAN

SCALE: | SHEET OF SHEETS | STA. 1" = 40'-0" | TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
	224	141

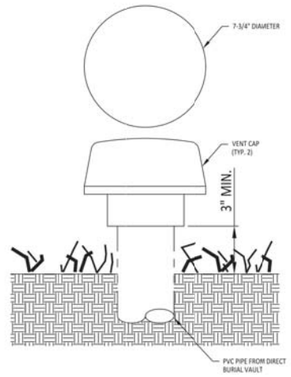
CONTRACT NO.

ILLINOIS | FED. AID PROJECT



VAULT PLAN VIEW (LID REMOVED FOR CLARITY)

SCALE: 1-1/2"=1'-0"



VENT CAP DETAIL

SCALE: AS SHOWN

SEE FM-6 FOR ADDITIONAL INSTALLATION INFORMATION

INSTALLER CONNECTION NOTIFICATION

DUE TO FINAL FABRICATION PROCESSES, THE LOCATIONS FOR ALL PENETRATIONS INDICATED ARE "APPROXIMATE".

IN THE EVENT SPECIFIC LOCATIONS ARE REQUIRED DUE TO FIELD CONDITIONS, AVOIDANCE OF OTHER TRADES, ETC, PLEASE CONTACT FOUNTAIN PEOPLE.

SYSTEM POWER REQUIREMENT:
120/208V, THREE PHASE, 4-WIRE FEEDER + GND. @ 30.0 AMPS
CONTACT FACTORY IMMEDIATELY IF NOT AVAILABLE.

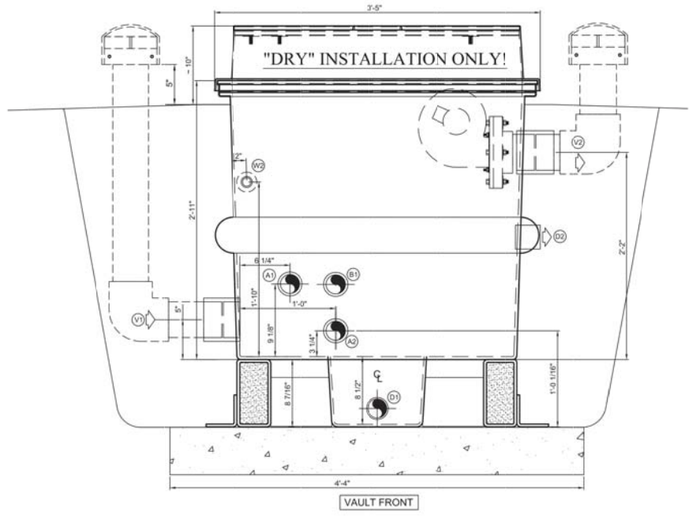
PIPING/CONDUIT LEGEND		
SYM.	SIZE	DESCRIPTION
A1	2"	FILTER/DISPLAY SUCTION CONNECTION; INSTALLER TO IMMEDIATELY INCREASE TO 4".
A2	2"	FILTER DISCHARGE CONNECTION, PIPING TO (2) EYEBALL FITTINGS
B1	2"	DISPLAY DISCHARGE CONNECTION; INSTALLER TO IMMEDIATELY INCREASE TO 3"
D1	2"	SUMP PIT GRAVITY DRAIN TO WASTE (NOT USED)
D2	2"	SUMP PUMP GRAVITY DRAIN TO WASTE
D3	2"	SAND FILTER BACKWASH TO WASTE
E1	1"C.	***SEE ABOVE***
E2	3/4"C.	WATER LEVEL CONTROL SENSOR CONDUIT
E3	1"C.	24VDC LED LIGHTING CIRCUITS TO ELECTRICAL SPLICE BOX
E4	1"C.	24VDC LED LIGHTING CIRCUITS TO ELECTRICAL SPLICE BOX
E5	1"C.	24VDC LED LIGHTING CIRCUITS TO ELECTRICAL SPLICE BOX
E6	1"C.	24VDC LED LIGHTING CIRCUITS TO ELECTRICAL SPLICE BOX
V1	3"	PVC 'SOCKET' INTAKE VENT
V2	3"	PVC 'SOCKET' EXHAUIST VENT
W1	3/4"	C.W.S. IN FROM CODE COMPLIANT, BACKFLOW PROTECTED SOURCE; REGULATE WATER PRESSURE DOWN TO 50 PSI MAX. / 30 PSI MIN., BY INSTALLER.
W2	3/4"	WATER FILL/MAKE-UP TO 2" FILTER RETURN PIPING. OUTSIDE VAULT; BY INSTALLER

ADVISORY

THE CONSTRUCTION OF THE DBV-SERIES DIRECT-BURIALVAULT IS INTENDED FOR "DRY" INSTALLATION ONLY!

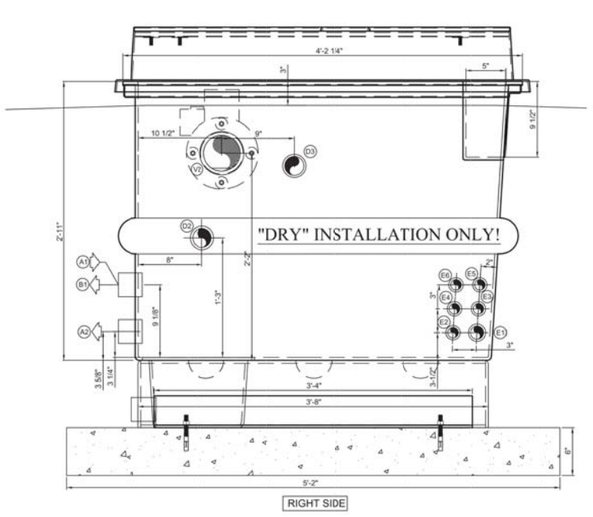
ANY PROLONGED OR TEMPORARY EXCESS GROUND WATER SURROUNDING THE VAULT MAY CAUSE INTERNAL LEAKS. THIS INCLUDES, BUT IS NOT LIMITED TOO; INSTALLED GROUND IRRIGATION, RAIN, STORM RUNOFF, FLOODING OR OTHER WATER INTRODUCING EVENT.

IN THE EVENT THESE CONDITIONS MAY BE PRESENT AT ANYTIME, IT IS "NOT THE RESPONSIBILITY" OF THE FOUNTAIN PEOPLE TO MAKE ANY RECOMMENDATIONS BEYOND THE SCOPE OF THIS DRAWING PACKAGE. THE OWNER, LANDSCAPE ARCHITECT, ARCHITECT, SPECIFICATION WRITER AND/OR THE INSTALLER WILL COORDINATE AS NEEDED WITH THE PROPER SITE CIVIL ENGINEER TO CREATE A SUITABLE, PERMANENT INSTALLATION ENVIRONMENT FOR THE VAULT. ANY ADDITIONAL COSTS ASSOCIATED WITH OBTAINING THESE SERVICES ARE NOT THE RESPONSIBILITY OF THE FOUNTAIN PEOPLE.



ELEVATION A-A

SCALE: 1-1/2"=1'-0"



ELEVATION B-B

SCALE: 1-1/2"=1'-0"

FM-5

CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	DBVA-P24566 DIRECT BURIAL VAULT INSTALLATION DETAILS SHEET 1		COUNTY / TOTAL SHEETS 224 / SHEET NO. 142
		DRAWN - JD	REVISED -				CONTRACT NO.
		CHECKED - WP	REVISED -				ILLINOIS FED. AID PROJECT
		DATE - 4/26/2024	REVISED -		SCALE: SHEET OF SHEETS STA. 1" = 40'-0" TO STA.		

DBV-SERIES INSTALLATION NOTES

1) RECEIVING THE VAULT
UPON ARRIVAL OF VAULT, CHECK BOTH INTERIOR AND EXTERIOR FOR SHIPPING DAMAGE. REPORT ANY DAMAGE FOUND TO THE FREIGHT CARRIER AND FOUNTAIN PEOPLE, INC. IMMEDIATELY. IF VAULT IS FREE OF DAMAGE, PROCEED WITH INSTALLATION. IF EQUIPMENT VAULT IS NOT TO BE INSTALLED IMMEDIATELY, STORE IN A COVERED AREA SAFE FROM FLOODING. IF A SAND FILTER IS USED, FILTRATION SAND MUST BE PROVIDED AND INSTALLED BY OTHERS.

2) EXCAVATION
EXCAVATI AS REQUIRED AND POUR A FLAT BALLAST SLAB OF SIZE INDICA'ED ON THE DRAWING. BALLAST SLAB SHOULD BE REINFORCED WITH GRID USING #4 RE-BAR ON 9" CENTEIS OR #6 X 6-4 WOVEN WIRE MESH. ALL EXCAVATION, SHORING AND PERTINENT SAFETY MEASURE TO BE FOLLOWED IN ACCORDANCE WITH OSHA REGULATION.

3) INSTALLING THE VAULT IN THE EXCAVATION
RIG VAULT WITH STRAPS, TAKING CARE NOT TO DAMAGE HOUSING OR PIPING CONNECTIONS. DO NOT USE CHAINS OR CABLES TO RIG VAULT. LOWER VAULT ONTO THE BALLAST SLAB AND SECURE USING THE STAINLESS STEEL HARDWARE (BY INSTALLER). SEE INSTALLATION DETAIL FOR SPECIFIC INFORMATION.

4) SAFEGUARDING THE VAULT
IF THE VAULT IS EQUIPPED WITH FORCED AIR VENTILATION, SUMP PUMPS, OR GRAVITY DRAINS, THESE MUST BE CONNECTED AND MADE OPERATIONAL IMMEDIATELY! DO NOT ALLOW EXCAVATION TO FILL WITH WATER PRIOR TO BACKFILLING AS THE VAULT MAY FLOOD THROUGH AN OPENING OR ATTEMPT TO FLOAT AND DAMAGE FITTINGS OR ANCHORING HARDWARE. ANCHORING HARDWARE IS INTENDED TO SECURE THE POSITION OF THE VAULT DURING INSTALLATION PLUMBING & ELECTRICAL CONNECTION AND BACKFILLING.

THE ANCHORS ARE NOT INTENDED TO PREVENT THE VAULT FROM LIFTING OR FLOATING IN UNCONTROLLED GROUND WATER CONDITIONS. REFER TO DETAILS AND ADDITIONAL INFORMATION REGARDING PROPER DE-WATERING IN HIGH GROUND WATER APPLICATIONS.

5) CONNECTING THE VAULT
CONNECT ALL PIPING AND CONDUIT, AS REQUIRED, TO CONNECTIONS PROVIDED ON VAULT EXTERIOR. DO NOT EXTERNALLY LOAD THE VAULT CONNECTIONS OR ALLOW THE CONNECTIONS TO SUPPORT THE WEIGHT OF THE CONNECTED PIPING. IF THE PIPING IS NOT SUPPORTED PROPERLY, SOIL SETTLING CAN RESULT IN EXCESSIVE LOADING ON THE PIPING. THIS CAN RESULT IN BROKEN PIPING AND MISALIGNED CONNECTIONS IN THE YAULT.

6) WIRING THE VAULT
CONDUIT WIRING MUST BE SEALED TO PREVENT WATER FROM ENTERING THE VAULT THROUGH THE CONDUIT.

7) PRESSURE TESTING THE CONNECTIONS
PRESSURE TEST ALL PIPING CONNECTED TO VAULT TO INSURE THERE ARE NO LEAKS. ALL EQUIPMENT AND PIPING WITHIN VAULT HAS BEIN FACTORY PRESSURE TESTED. DO NOT EXCEED 30 PSI IN PRESSURE TESTING ANY PIPING CONNECTED TO VAULT.

VENTILATION CONNECTIONS
IF EXTERNAL VENT PIPING IS REQUIRED, ROUTE IT WITH AS FEW BENDS AS POSSIBLE TO A LOCATION SAFE FROM FLOODING. LENGTH OF VENT PIPING SHOULD BE AS SHORT AS POSSIBLE AND SHOULD NOT EXCEED 20'-0". IF A LONGER PIPING LENGTH IS NECESSARY, CONTACT THE FOUNTAIN PEOPLE, INC. VENT CAPS, IF USED, SHOULD BE INSTALLED ON ENDS OF VENT PIPING IMMEDIATELY TO PREVENT RAIN OR DEBRIS FROM ENTERING THE VENT PIPING.

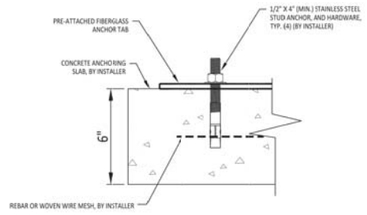
8) BACKFILLING
WHEN BACKFILLING, PROTECT OPEN ENDS OF ALL PIPING TO PREVENT BACKFILL MATERIAL FROM ENTERING THE PIPING SYSTEM. BACKFIL MATERIAL SHOULD BE A ROUNDED GRAVEL OR CRUSHED STONE (1/4" TO 3/4" MAX. AND LESS THAN 5% FINES). THERE SHOULD BE AT LEAST 2'-0" OF BACKFILL MATERIAL ON ALL SIDES OF VAULT BETWEEN THE VAULT AND THE SURROUNDING EARTH. BE CERTAIN TO COMPLETELY FILL ANY POCKETS BETWEEN THE BOTTOM OF THE VAULT AND THE CONCRETE ANCHORING PAD. THE TOP OF THE ACCESS HATCH SHOULD BE ABOVE FINISHED GRADE (AS INDICATED ON THE DRAWING) AND LOCATEDIN AN AREA THAT IS SAFE FROM FLOODING. DO NOT USE SAND OR DIRT FOR BACKFILL. DO NOT MECHANICALLY COMPACT ANY FILL OVER PIPING AND ELECTRICAL CONDUIT. FAILURE TO COMPLY MAY RESULT IN LEAKING, CRACKED OR BROKEN PLUMBING CONNECTIONS AT THE VAULT AND WILL VOID THE WARRANTY.

FAILURE TO FOLLOW ALL THE ABOVE PROCEDURES COULD RESULT IN SERIOUS DAMAGE TO THE EQUIPMENT AND WILL VOID THE WARRANTY ON THIS PRODUCT.

FOR ANY QUESTIONS CONCERNING THESE INSTALLATION INSTRUCTIONS OR THE INSTALLATION OF THE VAULT SYSTEM PLEASE CONTACT FOUNTAIN PEOPLE, INC. AT (512) 392-1155

NOTICE TO INSTALLER

ALL GENERAL VAULT INSTALLATION, SITE PREPARATION AND "MEP" WORK SHOWN ARE PRESENTED AS MINIMUM REQUIREMENTS. STATE, COUNTY AND LOCAL CODES MAY REQUIRE ADDITIONAL CONSTRUCTION AND INSTALLATION METHODS TO COMPLY WITH LOCAL ORDINANCES. INSTALLER TO COORDINATE WITH GENERAL CONTRACTOR ON ANY SPECIFIC SITE INSTALLATION REQUIREMENTS.



REQUIRED ANCHORING COMPONENTS, BY INSTALLER

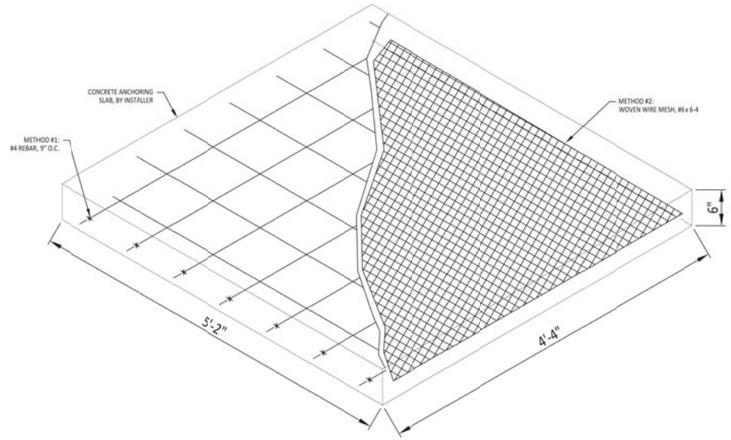
(ALL MATERIAL BELOW MUST BE 18-8 OR 316 STAINLESS STEEL)

(4) 1/2"X 4" LONG (MIN). STUD ANCHOR
(4) 1/2" FLAT WASHER (-1/4" X .055"-.069" THICKNESS)
*(4) 1/2" HEX NUT, TYPE 316 S.S.
*(4) 1/2" TYPE 316 S.S. PLIT LOCK WASHER

NOTES:
* A STAINLESS STEEL HEX NUT WITH NYLON LOCKING INSERT MAY BE UTILIZED IN LIEU OF HEX NUT AND LOCK WASHER MAY BE

ANCHOR DETAIL

SCALE: NONE



DUE TO FINAL ASSEMBLY AND DRILL LOCATIONS IN THE FIBERGLASS FROM THE FACTORY, INSTALLER TO FIELD VERIFY FINAL ANCHOR HOLE POSITIONS PRIOR TO LOCATING AND INSTALLING ANCHORS IN THE CONCRETE SLAB.

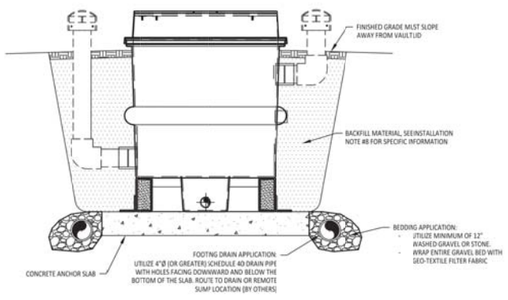
CONCRETE ANCHOR SLAB

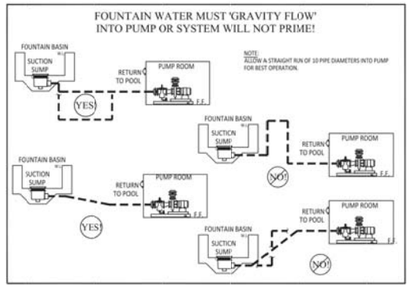
SCALE: NONE

SEE FM-5 FOR ADDITIONAL INSTALLATION INFORMATION

DBV-SERIES GROUND WATER REMOVAL APPLICATION (IF REQUIRED, BY INSTALLER)

SUMP WELL APPLICATION:
IF FOOTING DRAIN IS NOT AVAILABLE FOR GROUND WATER REMOVAL APPLICATION, INSTALLER TO CONSULT CIVIL ENGINEER FOR POSSIBLE SUMP PUMP WELL OR OTHER REMOVAL OPTION.





ADVISORY

THE CONSTRUCTION OF THE DBV-SERIES DIRECT-BURIALVAULT IS INTENDED FOR "DRY" INSTALLATION ONLY!

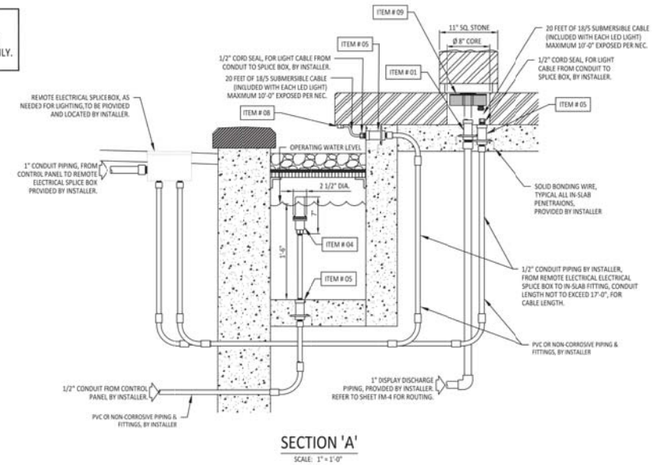
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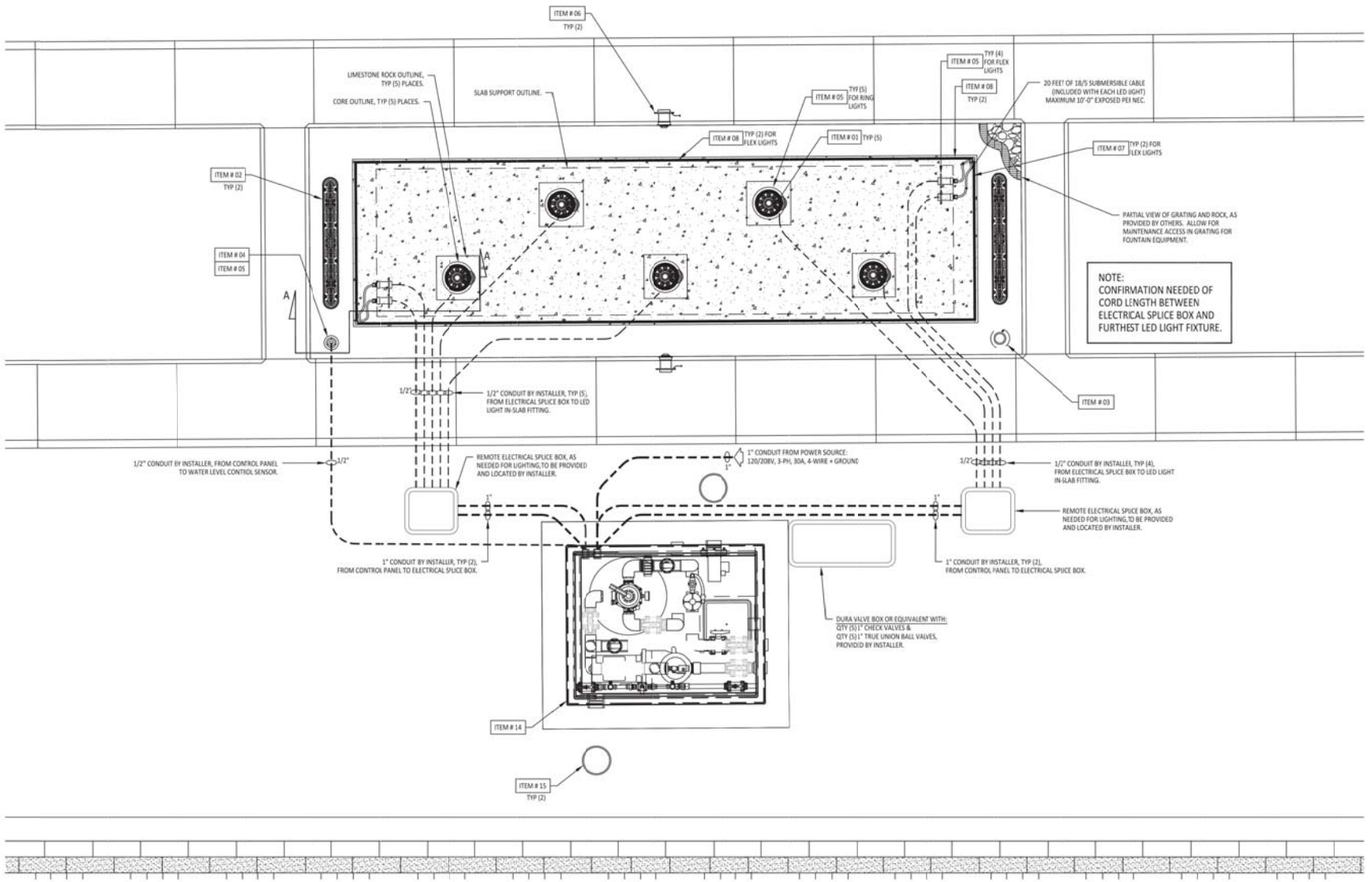
FM-6

CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	DBVA-P24566 DIRECT BURIAL VAULT INSTALLATION DETAILS SHEET 2		COUNTY / TOTAL SHEETS / SHEET NO.
		DRAWN - JD	REVISED -				224 / 143
		CHECKED - WP	REVISED -				CONTRACT NO.
		DATE - 4/26/2024	REVISED -		SCALE: / SHEET OF SHEETS / STA. 1" = 40'-0" / TO STA.		ILLINOIS / FED. AID PROJECT

NOTE:
ARCHITECTURAL DETAILING SHOWN FOR REFERENCE ONLY.



SECTION 'A'
SCALE: 1" = 1'-0"



Joliet City Square
Single Rectangle Fountain
Equipment List
Fountain People 03/18/24

Item #	Qty	Component Number	Description
^01	5	FWS-100	1" Waterstop Fitting
^02	2	PCS-32-B	VGB Compliant Plastic Channel Sump
^03	1	FSD-200-P24566	Overflow Standpipe Drain
04	1	CWL-002C	Conduit Mounted Water Level Sensor
^05	10	FWS-050	1/2" Waterstop Fitting
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08	2	FXPRO-FLEX-197	LED Underwater Flex Light
09	5	FX-LED-RING-RGBW	LED Underwater Ring Light
09a	5	FX-LED-RING-ADP	LED Ring Light Adapter
10	1	DBVA-P24427	Direct Burial Vault
11	2	VCA-300-P	Vent Cap Assembly, 3"

^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR.

NOTE: ALL PIPING AND CONDUITS SHOWN ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO REPRESENT THE ACTUAL PIPE ROUTING FOR THIS PROJECT.

FE-1

CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	FOUNTAIN ELECTRICAL PLAN		COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - JD	REVISED -					224 / 144
		CHECKED - WP	REVISED -				CONTRACT NO.	
		DATE - 4/26/2024	REVISED -		SCALE:	SHEET OF SHEETS STA. 1" = 40'-0" TO STA.	ILLINOIS FED. AID PROJECT	

JOLIET CITY SQUARE DOUBLE RECTANGLE FOUNTAIN

JOLIET, ILLINOIS

USA

DRAWING SHEET INDEX

FP PROJECT REF - P24566

		MAR 18, 2024 - ISSUED FOR REVIEW	APRIL 24, 2024 - REVISION #1 ISSUED FOR REVIEW
GENERAL INFORMATION			
FC-0	COVER SHEET & DRAWING INDEX	/	/
FN-1	GENERAL NOTES, DESIGN STATEMENT & EQUIPMENT LIST	/	/
FOUNTAIN			
FD-1	FOUNTAIN EQUIPMENT DETAILS SHEET	/	/
FM-1	FOUNTAIN SITE PLAN	/	/
FM-2	FOUNTAIN DIMENSION PLAN	/	/
FM-3	FOUNTAIN SUCTION, DRAIN & VENT PIPING PLAN	/	/
FM-4	FOUNTAIN DISCHARGE, FILL & EQUALIZATION PIPING PLAN	/	/
FM-5	DBVE DIREC' BURIAL VAULT INSTALLATION DETAIL SHEET 1	/	/
FM-6	DBVE DIREC' BURIAL VAULT INSTALLATION DETAIL SHEET 2	/	/
FE-1	FOUNTAIN ELECTRICAL PLAN	/	/

REV 01:
- UPDATED VALVE BOX LOCATIONS FROM LANDSCAPE AREA TO PLAZA.
- ADJUST PIPING LAYOUT AS NEEDED.
- EDIT "LIMESTONE" PAVERS DESCRIPTION TO "PRECAST"

fountain people™

A PLAYCORE Company

"APPROVAL TO PROCEED BY CLIENT"

In order for Fountain People to proceed with procurement and fabrication of equipment outlined in this drawing package, the "Client" must provide notice that the documents enclosed are "Approved" or "Approved as Noted".

This cover sheet may act as the approving "notice to proceed" and may be returned to Fountain People in a reduced/scanned image.

Expected equipment delivery dates cannot be confirmed until Fountain People receives the "Approved" drawing notice AND the equipment proposal has been confirmed and agreed upon by all parties.

SIGNATURE _____ PRINT/TYPE NAME _____

COMPANY NAME _____

DATE _____

FC-0

CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	COVER SHEET		COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JD	REVISED -					224	145
		CHECKED - WP	REVISED -					CONTRACT NO.	
		DATE - 4/26/2024	REVISED -		SCALE:	SHEET OF SHEETS STA. TO STA.	ILLINOIS	FED. AID PROJECT	

Design Operation Statement &Specifications

The Joliet City Square project includes (3) nearly identical exterior water features, divided into two independent fountain systems referred to as the "Single Rectangle Fountain" and the "Double Rectangle Fountain". This package includes information for the Double Rectangle Fountain; please refer to the Single Rectangle Fountain drawing package for more information on it.

The Double Rectangle Fountain is in a plaza area with adjacent planter areas and surrounding seat wall. It is made up of two equalized fountain features. Each rectangle fountain portion measures approximately 15'-1" x 5'-0". Water is introduced under ten (five in each fountain) 11" square, rough split, limestone blocks located atop a larger stone slab. Water is introduced from under the small square blocks and flows around the perimeter of the larger stone slab. The water then falls into a lower basin. The lower basin has grating and is covered in gravel as provided by others. Submersible ring lighting is located under each of the precast blocks and is concealed within the larger stone slab. In addition to the ring lights, linear LED flex strip lighting is used to illuminate the under-edge perimeter of the stone slabs. The water level is controlled by a standpipe in each fountain and a conduit mount water level sensor. The 2" standpipes can be removed to drain the basins. Fittings in the basins work with an underground equipment vault to provide the necessary equipment for filtration and recirculation of the water. This vault contains a 5-HP XF self-priming filter/display pump, TA60 sand filter, fill manifold, disconnection switches and light switches and UL listed Control Panel. The chemical feeder is located in an exterior housing (by others) next to the vault. The underground burial vault is in a plaza area adjacent to the fountain and includes a tile set hatch. The direct burial equipment vault is factory engineered, assembled and pressure tested prior to shipment.

Approximate calculations as field conditions may vary:

Fountain Lower Basin 1 Area:	34.8 Sq Ft (Less the center stone slab support)
Lower Basin 1 Water Depth:	18 Inches (1'-6")
Lower Basin 1 Volume:	52.2 Cubic Feet, 390.5 Gallons
Fountain Lower Basin 2 Area:	34.8 Sq Ft (Less the center stone slab support)
Lower Basin 2 Water Depth:	18 Inches (1'-6")
Lower Basin 2 Volume:	52.2 Cubic Feet, 390.5 Gallons
Total Volume:	104.4 Cubic Feet, 781 Gallons
Shut Down Gain:	~ 1/4"
Display Requirements:	Qty (10) 1" discharge nozzle, 20 GPM each at 6 Feet of Head
Display Requirement Total:	200 GPM at 50 Feet of Head
Display Pump Capacity:	5-HP XF pump, 220 GPM at 50 Feet of Head
Filtration Requirement:	4 GPM @ 50 Feet of Head (4 Hour turnover rate)
Filtration Type:	Sand Filter, 60 GPM Max Filter Rate
Actual Filtration Rate:	20 GPM
Rate of Filtration Turnover:	40 minutes

Joliet City Square Double Rectangle Fountain Equipment List
Fountain People - 03/18/24

Item #	Qty	Component Number	Description
^01	10	FWS-100	Waterstop Fitting, cast bronze coupling with integral waterstop flange, bonding lug and 1" female threaded connections.
^02	4	FWS-400	Waterstop Fitting, cast bronze coupling with integral waterstop flange, bonding lug and 4" female threaded connections.
^03	4	PCS-32-B	VGB Compliant Plastic Channel Sump, dimensions: 33" x 4-9/32" x 5-9/16", three bottom ports: 2-2/2" spigot x 2" socket x 2" NPT, two 2" threaded plugs, #316 Stainless Steel fasteners, VGB Grate has 25.9 sq in open area for water flow, allowing 316 GPM @ 3.9 fps. IAPMO Listed VGB Suction: Compliant to ANSI/APSP - 16 2011 & CPSC Requirements. Color: Black.
^04	2	FSD-200-P24566	Overflow Standpipe Drain, 18-1/2"H, cast bronze body with integral waterstop flange and ground screw, cast bronze cap, copper standpipe, 2" FNPT connection.
05	1	CWL-002C	Conduit Mounted Water Level Sensor, cast bronze housing base with spun brass cover, dual function water level sensor with 100 feet of integral cable, 3/4" adjustability range. 1/2" female threaded conduit connection.
^06	19	FWS-050	Waterstop Fitting, cast bronze coupling with integral waterstop flange, bonding lug and 1/2" female threaded connections.
^07	2	ST-EF-200	Adjustable Eyeball Inlet Fitting, constructed of machined cast bronze and brass with bonding screw, 5/8" orifice eyeball, and 2" (F) N.P.T. connection.
08	4	FXPRO-FLEX-79	Flexible linear LED light, resin encapsulated- UV resistant, 24VDC, 36W, 79" length cut and seal end to field dimension
09	4	FXPRO-FLEX-197	Flexible linear LED light, resin encapsulated- UV resistant, 24VDC, 90W, 197" length cut and seal end to field dimension
10	10	FX-LED-RING-RGBW	LED Underwater Ring Light Fixture, type 304 stainless steel construction, 6.5" diameter. 1-1/2" x 1-1/4" transition adapter. tempered glass lens with silicone gasket, and 20 feet of cable. 24V input voltage, 36 watts from (9) RGBW diodes.
10a	10	FX-LED-RING-ADP	LED Ring Light transition adapter. 1-1/2" x 1-1/4", stainless steel construction.
11	1	DBVE-P24566	Direct Burial Vault, fully pre-assembled and tested heavy duty FRP vault (6'-7" x 5'-7" x 6'-7" deep) with gel-coat interior and exterior, furnished with lockable tileset access hatch and ladder up extension pole. The vault includes a 5-HP XF self-priming display pump with integral basket strainer, TA60 sand filter, suction & discharge isolation & throttling valves, 3/4" water fill manifold assembly, 3/4-HP sump pump assembly, forced air ventilation system, LED Lighting control and a UL electrical control panel with pump starter, timeclock, and main disconnect switch. Unit is factory engineered, assembled, and tested prior to shipment. Power requirement: 120/208 Volt, three-phase, 4-wire feeder + GND.
12	2	VCA-600	Vent Cap Assembly, cast iron construction, 6" connection
13	1	WTC-920-P24566	Chemical Feeder Treatment Assembly: Erosion style chemical feeder, and (2) 1-1/2" PVC isolation valve assemblies. Requires valve box with metal lockable lid, 1'-7" x 1'-8" x 2'-2", by installer. Coordinate style with other site housings.

^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR.

WATER FEATURE SPECIFICATION NOTES

THE INSTALLER SHALL BE RESPONSIBLE FOR PURCHASING WATER FEATURE COMPONENTS, AS WELL AS PROVIDING LABOR AND MATERIALS REQUIRED EFFECTING THE INSTALLATION OF THE OPERATIONAL SYSTEMS AS DETAILED IN THE PLANS AND SPECIFICATIONS.

THE PRIME WATER FEATURE INSTALLER SHALL FURNISH FOUNTAIN ELECTRICAL COMPONENTS TO THE ELECTRICAL INSTALLER FOR INSTALLATION AND CONNECTION.

A SINGLE MANUFACTURER SHALL SUPPLY ELECTRICAL AND MECHANICAL WATER FEATURE COMPONENTS IN ORDER TO ENSURE THE INTEGRITY OF THE WATER FEATURE DESIGN. THE WATER FEATURE EQUIPMENT SHALL BE AS DESIGNED AND MANUFACTURED BY FOUNTAIN PEOPLE, INC., P.O. BOX 807, 4600 HWY 123 EAST, SAN MARCOS, TX 78666. (512) 392-1155. SUBSTITUTION OF WATER FEATURE MATERIALS SHALL REQUIRE WRITTEN APPROVAL BY THE PROJECT ARCHITECT OR LANDSCAPE ARCHITECT.

INSTALLERS OFFERING SUBSTITUTIONS SHALL SUBMIT THREE COPIES OF THE FOLLOWING DATA AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE FOR REVIEW AND APPROVAL:

1. COMPLETE WATER FEATURE SYSTEM FLOW DIAGRAM.
2. COMPLETE WATER FEATURE ELECTRICAL CONTROL PANEL LADDER LOGIC DIAGRAMS.
3. A COMPLETE BILL OF MATERIALS ALONG WITH SPECIFICATION CUTS OF PROPOSED SUBSTITUTE ITEMS.
4. A WRITTEN DESCRIPTION OF THE WATER FEATURE'S OPERATIONAL CYCLE.
5. A WRITTEN PERFORMANCE GUARANTEE BY THE ALTERNATE SYSTEM MANUFACTURER CERTIFYING THAT THE ALTERNATE SYSTEM WILL MEET THE SPECIFIED DESIGN CONCEPT AND PERFORMANCE REQUIREMENTS. FAILURE TO SUBMIT FOR PRIOR APPROVAL OF SUBSTITUTIONS WILL BE GROUNDS FOR REJECTION. WITHIN TEN WORKING DAYS OF AWARD OF CONTRACT, INSTALLER SHALL SUBMIT FIVE COPIES OF MANUFACTURERS' DETAILED DATA SHEETS AND SUBMITTAL DRAWINGS OF WATER FEATURE COMPONENTS FOR APPROVAL PRIOR TO INSTALLATION. UPON COMPLETION OF THE PROJECT, INSTALLER SHALL PROVIDE THREE COPIES OF OWNER'S OPERATION AND MAINTENANCE MANUALS. MANUALS SHALL BE PROVIDED ON COMPACT DISCS WITH ALL PORTIONS IN A PRINTABLE FORMAT, AND SHALL INCLUDE OPERATING AND MAINTENANCE PROCEDURES ALONG WITH MANUFACTURERS' DATA SHEETS AND SYSTEM DRAWINGS.

GENERAL NOTES

THE WATER FEATURE MECHANICAL AND ELECTRICAL DRAWINGS ARE DIAGRAMMATIC, INTENDED TO INDICATE THE SCOPE OF THE WORK TO BE DONE. EQUIPMENT AND MATERIAL LOCATIONS MAY BE DISTORTED FOR CLARITY IN PRESENTATION.

QUESTIONS PERTAINING TO WORK THAT DOES NOT APPEAR TO BE SUFFICIENTLY DETAILED OR EXPLAINED, OR PERTAINING TO THE TRUE MEANING OF A PART OF THE DRAWINGS OR SPECIFICATIONS, OR DISCREPANCIES FOUND EXISTING IN OR BETWEEN THE SPECIFICATIONS AND DRAWINGS, SHALL BE REFERRED TO THE ARCHITECT OR LANDSCAPE ARCHITECT FOR CLARIFICATION.

ITEM NUMBERS CORRESPOND TO THE BILL OF MATERIALS AND SHALL BE FURNISHED BY THE EQUIPMENT MANUFACTURER. THE INSTALLER SHALL FURNISH OTHER MATERIALS, LABOR, TOOLS, EQUIPMENT, APPARATUS, AND SERVICES, WHICH ARE REQUIRED TO COMPLETE THE INSTALLATION OF THE WATER FEATURE SYSTEM.

MECHANICAL NOTES

1. THIS INSTALLATION SHALL COMPLY WITH LOCAL PLUMBING CODES.
2. PIPING LOCATED WITHIN A POOL BASIN, AND STUB-UPS THROUGH A POOL FLOOR OR WALLS OF A BASIN, SHALL BE OF BRASS PIPE, TYPE K COPPER TUBING OR STAINLESS STEEL.
3. INSTALLER SHALL SUPPLY WATERSTOP PROTECTION FOR PIPING PENETRATING POOL FLOOR OR WALLS AND FOR FITTINGS CAST THEREIN UNLESS OTHERWISE SPECIFIED WITHIN THESE DRAWINGS AND EQUIPMENT LIST.
4. INTERCONNECTING PIPE AND FITTINGS BETWEEN THE POOL BASIN AND THE PUMP EQUIPMENT ROOM SHALL BE OF COPPER, MINIMUM-SCHEDULE 40 PVC, STAINLESS STEEL OR FIBERGLASS.
5. PRESSURIZED CITY WATER LINES SUPPLYING THE WATER FEATURE SYSTEM SHALL BE OF COPPER AND SHALL BE PROTECTED BY A BACKFLOW PREVENTION DEVICE AND PRESSURE REDUCTION VALVE SET AT 50 PSI MAXIMUM.
6. PIPING RUNS SHALL BE MADE AS DIRECT AS POSSIBLE USING THE MINIMUM NUMBER OF FITTINGS. PIPE SHALL SLOPE TO THE PUMP FOR DRAINAGE AND SHALL BE FREE OF TRAPS OR LOOPS THAT COULD TRAP WATER OR AIR.
7. IF PIPING CANNOT BE SLOPED TO PUMP, MAKE PROVISIONS FOR COMPLETE DRAINING OF EACH PIPE WITH A MINIMUM 1 1/2" LINE AND VALVE AT THE LOWEST POINT.
8. PUMP SUCTION INTAKE AND SUCTION PIPING SHALL BE ROUTED TO AN ELEVATION BELOW THE WATER LEVEL OF THE LOWEST BASIN SO THAT BOTH THE PUMP AND THE SUCTION PIPING ARE COMPLETELY FLOODED WHEN THE WATER FEATURE SYSTEM IS FILLED UNLESS OTHERWISE SPECIFIED HEREIN.
9. PIPING SHALL BE PRESSURE TESTED PRIOR TO BACK-FILLING AND SHALL BE PROPERLY SUPPORTED.
10. INSTALLER SHALL PROVIDE DRAINAGE AND VENTILATION IN AN EQUIPMENT PUMP ROOM IN ORDER TO PREVENT FLOODING, CONDENSATION, OR OVERHEATING OF EQUIPMENT.

ELECTRICAL NOTES

1. UNDERWATER ELECTRICAL EQUIPMENT CAN CAUSE FATAL ELECTRICAL SHOCK IF NOT INSTALLED PROPERLY. THIS INSTALLATION HAS BEEN DESIGNED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, ARTICLE 680. INSTALLER SHALL INSTALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 680 AND LOCAL ELECTRICAL CODES.
2. A CLASS 'A' GROUND FAULT CIRCUIT INTERRUPTER (GFCI) SHALL BE INSTALLED ON CIRCUITS THAT HAVE AN OPERATING VOLTAGE GREATER THAN 15 VOLTS AND THAT SUPPLY WATER FEATURE EQUIPMENT LOCATED WITHIN BASINS. EQUIPMENT OPERATING AT LESS THAN 15 VOLTS SHALL BE PROTECTED BY A TRANSFORMER WHICH IS UL LISTED AND MARKED FOR THE APPLICATION.
3. UNLESS UL LISTED FOR EITHER WET OR DRY OPERATION, UNDERWATER LIGHT FIXTURES SHALL BE INSTALLED SO THAT THEY ARE SUBMERGED WHEN IN OPERATION, SHALL BE PROTECTED BY A LENS GUARD IF POINTED UPWARD, AND SHALL BE PROTECTED BY AN INTEGRAL THERMAL CUTOFF DEVICE TO PREVENT OVERHEATING.
4. UNDERWATER LIGHT FIXTURES SHALL BE INSTALLED WITH SUFFICIENT CORD LENGTH TO ALLOW REMOVAL FROM THE WATER FOR RELAMPING AND NORMAL MAINTENANCE WITHOUT LOWERING THE BASIN WATER LEVEL.
5. UNDERWATER JUNCTION BOXES SHALL BE EQUIPPED WITH THREADED CONDUIT ENTRIES AND STRAIN RELIEF SEALS FOR CORD ENTRY. STRAIN RELIEF SEALS SERVING NICHE MOUNTED FIXTURES SHALL MAKE PROVISION FOR BOTH THE FIXTURE CORD AND AN AWG #8 COPPER BONDING WIRE WHEN REQUIRED BY LOCAL CODE.
6. UNDERWATER JUNCTION BOXES, OR JUNCTION BOXES MOUNTED OUTSIDE THE BASIN BUT BELOW THE WATER LEVEL, SHALL BE POTTED USING 3M "GELLA" 1882 RE-ENTERABLE POTTING COMPOUNDS. CONDUIT ENTRIES SHALL BE SEALED PRIOR TO POTTING THE JUNCTION BOX TO PREVENT POTTING COMPOUND FROM ENTERING THE CONDUIT SYSTEM.
7. STUB-UPS FOR CONDUIT MOUNTED UNDERWATER JUNCTION BOXES MUST BE OF RED BRASS PIPE OR STAINLESS STEEL. NON-METALLIC CONDUIT MAY NOT BE USED FOR SUPPORT OF JUNCTION BOXES.
8. WIRE PULLED BETWEEN WATER FEATURE ELECTRICAL CONTROLS PANELS AND UNDERWATER JUNCTION BOXES SHALL BE OF STRANDED COPPER, WATER-RESISTANT TYPE SELECTED AND SIZED FOR THE APPLICATION.
9. CONDUIT SHALL BE SEALED TO PREVENT ENTRY OF MOISTURE AND TO PREVENT WATER FROM DRAINING INTO THE WATER FEATURE ELECTRICAL CONTROL PANELS.

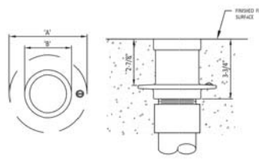
FN-1

CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	GENERAL NOTES, DESIGN STATEMENT & EQUIPMENT LISTS		COUNTY / TOTAL SHEETS / SHEET NO.
		DRAWN - JD	REVISED -				224 / 146
		CHECKED - WP	REVISED -				CONTRACT NO.
		DATE - 4/26/2024	REVISED -		SCALE: / SHEET OF SHEETS / STA. TO STA.		ILLINOIS / FED. AID PROJECT

FWS-SERIES WATERSTOP FITTING

PRODUCT SPECIFICATION:
FWS-Series Waterstop Fitting; consists of a coupling with an integral waterstop plate, bonding lug and female threaded connections. Construction shall be of cast bronze, copper and brass with a natural finish.





PLAN VIEW ELEVATION VIEW

ENGINEERING DATA			
MODEL #	FNPT	Measurements "A"	Measurements "B"
FWS-050	1/2"	3-1/2"	1-3/4"
FWS-075	3/4"	3-1/2"	1-3/4"
ITEM # 01 → FWS-100	1"	5"	1-3/4"
FWS-125	1-1/4"	5"	3"
FWS-150	1-1/2"	5"	3"
FWS-200	2"	5"	3"
FWS-300	3"	7"	5-1/4"
ITEM # 02 → FWS-400	4"	7"	5-1/4"

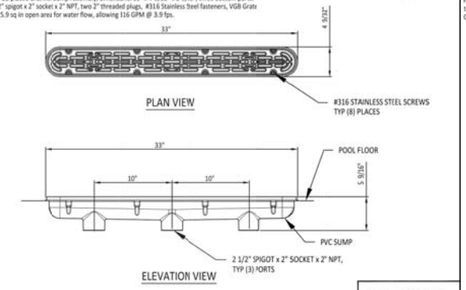
ITEM # 01 QTY(10)

ITEM # 02 QTY(4)

PCS-32 32" VGB CHANNEL SUMP

PRODUCT SPECIFICATION:
32" VGB plastic Channel Sump Assembly, dimensions: 33" x 4-9/32" x 5-9/16", three bottom ports: 2-1/2" spigot x 2" socket x 2" NPT, two 2" threaded plugs, #316 Stainless Steel fasteners, VGB Grate has 25.9 sq in open area for water flow, allowing 116 GPM @ 3.9 fps.



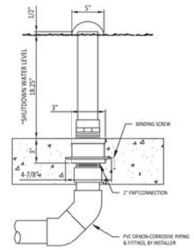


ITEM # 03 QTY(4)

FSD-200-P24566 OVERFLOW STANDPIPE

PRODUCT SPECIFICATION:
FSD-Series 2" Overflow standpipe Drain; consists of an integral waterstop flange with female threaded connection, gound screw and a removable standpipe drain with secured dome. Construction is of cast bronze with copper standpipe and cast bronze dome in natural finish.



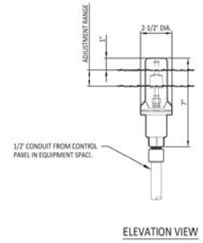


ITEM # 04 TYP (2)

CWL-002C WATER LEVEL CONTROL SENSOR

PRODUCT SPECIFICATION:
Conduit Mount Water level Sensor, cast bronze housing base with spun brass cover, dual function water level sensor with 100' feet of integral cable, 3/4" adjustability range. 1/2" female threaded conduit connection.





ITEM # 05 QTY(1)

FWS-050 WATERSTOP FITTING

PRODUCT SPECIFICATION:
FWS-Series Waterstop Fitting; consists of a coupling with an integral waterstop plate, bonding lug and female threaded connections. Construction shall be of cast bronze, copper and brass with a natural finish.

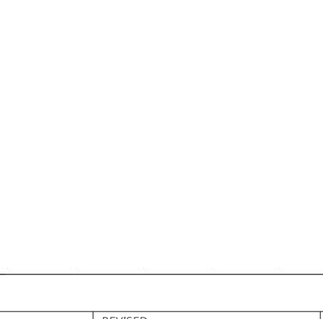
PLAN VIEW ELEVATION VIEW

ENGINEERING DATA			
MODEL #	FNPT	Measurements "A"	Measurements "B"
FWS-050	1/2"	3-1/2"	1-3/4"
FWS-075	3/4"	3-1/2"	1-3/4"
FWS-100	1"	5"	1-3/4"
FWS-125	1-1/4"	5"	3"
FWS-150	1-1/2"	5"	3"
FWS-200	2"	5"	3"
FWS-300	3"	7"	5-1/4"
FWS-400	4"	7"	5-1/4"

ITEM # 06 QTY(19)

ST-EF-200 ADJUSTABLE EYEBALL INLET FITTING

PRODUCT SPECIFICATION:
ST-EF-Series Stream Eyeball Inlet Fitting directs debris to skimmers and improve water circulation; constructed of cast machined bronze and brass body with a natural finish, integral waterstop with grounding screw, 2" FNPT connection with 5/8" orifice size.



ENGINEERING DATA			
MODEL #	FNPT	Flow Rate MINIMUM	Flow Rate MAXIMUM
ST-EF-200	2"	10 GPM	30 GPM

ITEM # 07 QTY(2)

FXPRO-FLEX-SERIES LED LINEAR LIGHT FIXTURE

PRODUCT SPECIFICATION:
FXPRO-FLEX-SERIES, Underwater flexible linear LED light fixture; Flexible resin encapsulated body flexible up to 150mm radius, UV resistant, fixture is able to be trimmed and sealed to required length, includes 20 feet of submersible cable. Installation requires SS spring type clips - 16mm (0.629")W x 6.2mm(0.244") with recommended spacing every 250mm (9.94")



ENGINEERING DATA				
MODEL NO. #	LENGTH	Input V	Wattage RGB-DMX	Wattage White
FXPRO-FLEX-20	20"	24VDC	9W	5W
FXPRO-FLEX-39	39"	24VDC	18W	10W
ITEM # 08 → FXPRO-FLEX-79	79"	24VDC	36W	10W
ITEM # 09 → FXPRO-FLEX-197	197"	24VDC	90W	10W

ENGINEERING DATA

NOTES:
1) UNDERWATER JUNCTION BOX REQUIRED. SIZE BASED ON LIGHT QUANTITY. SEE CATALOG ITEM: LJP-SERIES
2) WATERSTOP FITTING REQUIRED FOR CONCRETE POUR. SIZE BASED ON WIRE/CONDUIT SIZE. (SEE CATALOG ITEM: FWS-SERIES)
3) IP68/IP98 RIOB RATED - RECOMMENDED ABOVE WATER LINE FOR LONG TERM INSTALLATION.

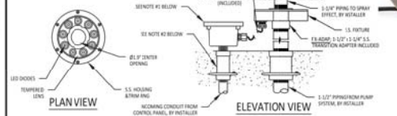
ITEM # 08 QTY(4)

ITEM # 09 QTY(4)

FX-LED-RING-RGBW LIGHT FIXTURE

PRODUCT SPECIFICATION:
FX-LED-RING-SERIES, Underwater LED Ring style light fixture; 6.5" diameter, type 304 stainless steel housing and trim ring, fixture includes tempered glass lens with silicone gasket, entry cord seal and 20 feet of submersible cable. 27 watt fixture is available in either RGB (-RGB) or White (-W) (9) diode configuration.





Fixture Dimensions	6.5" Light Diameter
Submersible Rating	6.1 feet
Input Voltage	24VDC
Cable/Length	20 feet- 18/5
Power Usage	36 watts
Dimming Capability	Yes (DMX controller required)
Color	RGBW
Color Temperature	Adjustable (RGBW)
LED Diode Quantity	9

Beam Angle	30 Degrees (fixed)
Lens Material	Step Tempered Glass
Fixture Construction	Type 304 stainless steel
Fixture seal	Silicone
Application Location	Underwater, marine environment
LED Diode Lifespan	+/- 50,000 hours
Warranty	1 year
Certifications/ Standards	CE, IP68, RoHS

ENGINEERING DATA

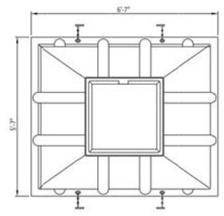
CATALOG #	DIM 'A'	DIM 'B'	NOTES:
FX-LED-RING-RGBW	2.125"	6.5"	1) UNDERWATER JUNCTION BOX REQUIRED. SIZE BASED ON LIGHT QUANTITY. SEE CATALOG ITEM: LJP-SERIES
FX-LED-RING-W	2.125"	6.5"	2) WATERSTOP FITTING REQUIRED FOR CONCRETE POUR. SIZE BASED ON WIRE/CONDUIT SIZE. (SEE CATALOG ITEM: FWS-SERIES) 3) 1-1/2" WATERSTOP FITTING REQUIRED FOR CONCRETE POUR. (SEE CATALOG ITEM: FWS-150)

ITEM# 10 QTY(10)

DBVE-24556 DIRECT BURIAL VAULT

PRODUCT SPECIFICATION:
Direct Burial Vault, fully pre-assembled and tested heavy duty FRP vault (6'-7" x 5'-7" x 6'-7" deep) with gel-coat interior and exterior, furnished with lockable tileset access hatch and ladder up extension pole. The vaut includes a 5-HP XF selfprimingdisplay pump with integral basket strainer, TA60 sand filter, suction & discharge isolation & throttling valves, 3/4" water fill manifold assembly, 1/3-HP sump pump assembly, forced air ventilaion system, LED Lighting Panel and a UL electrical control panel with pump starter, timeclock, and main disconnect switch. Unit is factory engineered, assembled, and tested prior to shipment.
Power requirement: 120/208 Volt, three-phase, 4-wire feeder + GND.



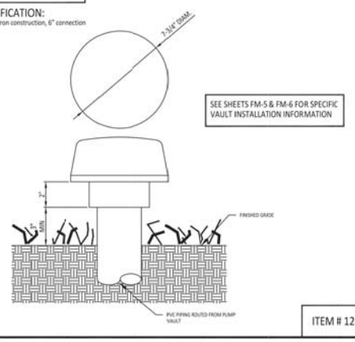


SEE SHEETS FM-5 & FM-6 FOR SPECIFIC VAULT INSTALLATION INFORMATION

ITEM # 11 QTY(1)

VCA-600 VENT CAP

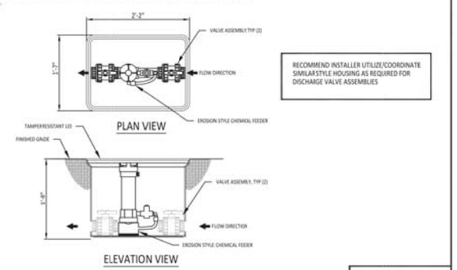
PRODUCT SPECIFICATION:
Vent Cap Assembly, cast iron construction, 6" connection



ITEM # 12 QTY(2)

WTC-920 CHEMICAL FEEDER ASSEMBLY

PRODUCT SPECIFICATION:
Erosion style chemical feeder and two (2) 2" PVC isolation valve assemblies, for water treatment systems. Requires Valve Box, minimum 1'-7" x 1'-8" x 2'-2" with metil lockable lid. Provided by installer.



ITEM # 13 QTY(1)

FD-1

CIVILTECH		DESIGNED - JD	REVISED -
		DRAWN - JD	REVISED -
		CHECKED - WP	REVISED -
		DATE - 4/26/2024	REVISED -

CITY OF JOLIET

FOUNTAIN EQUIPMENT DETAILS SHEET

SCALE: | SHEET OF SHEETS | STA. TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
	224	147

CONTRACT NO.

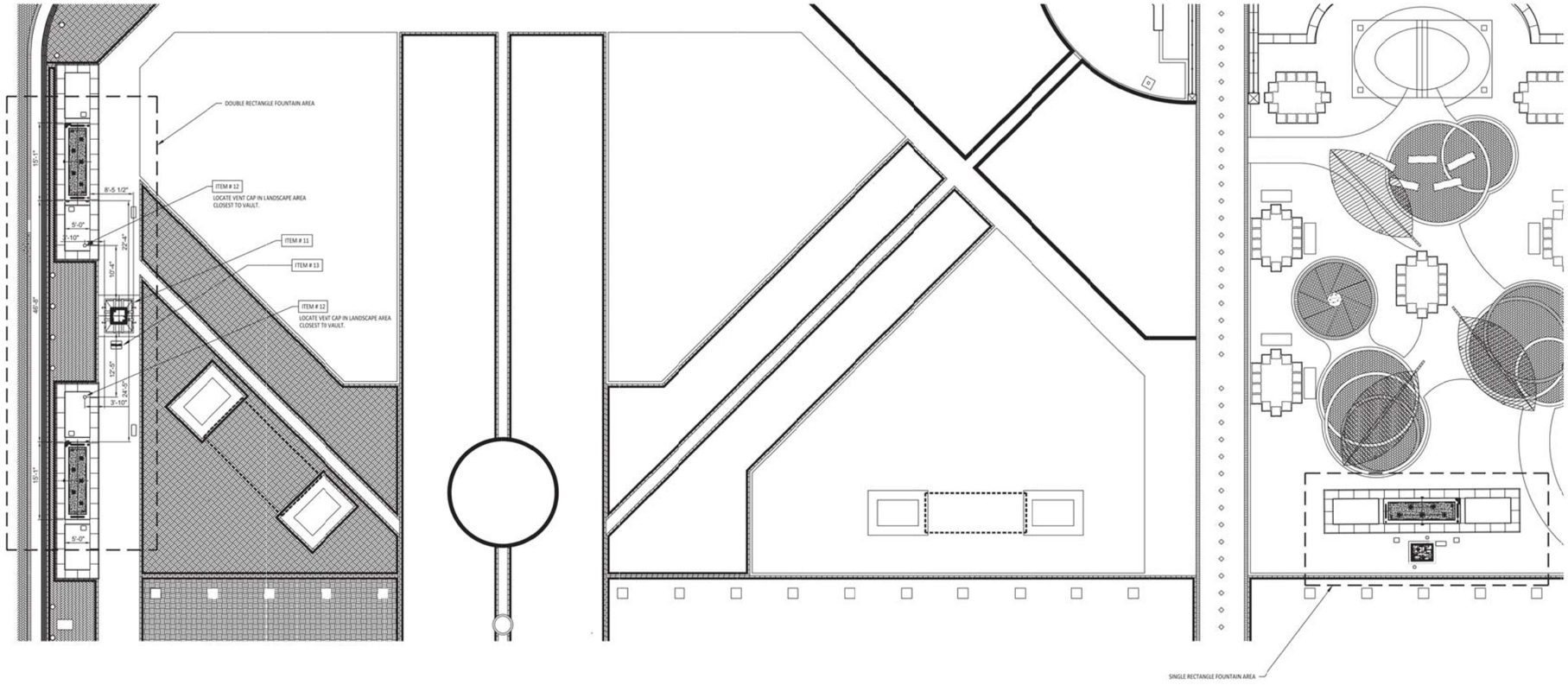
ILLINOIS | FED. AID PROJECT

NOTE:
ARCHITECTURAL DETAILING SHOWN FOR REFERENCE ONLY.

Joliet City Square
Double Rectangle Fountain
Equipment List
Fountain People 03/18/24

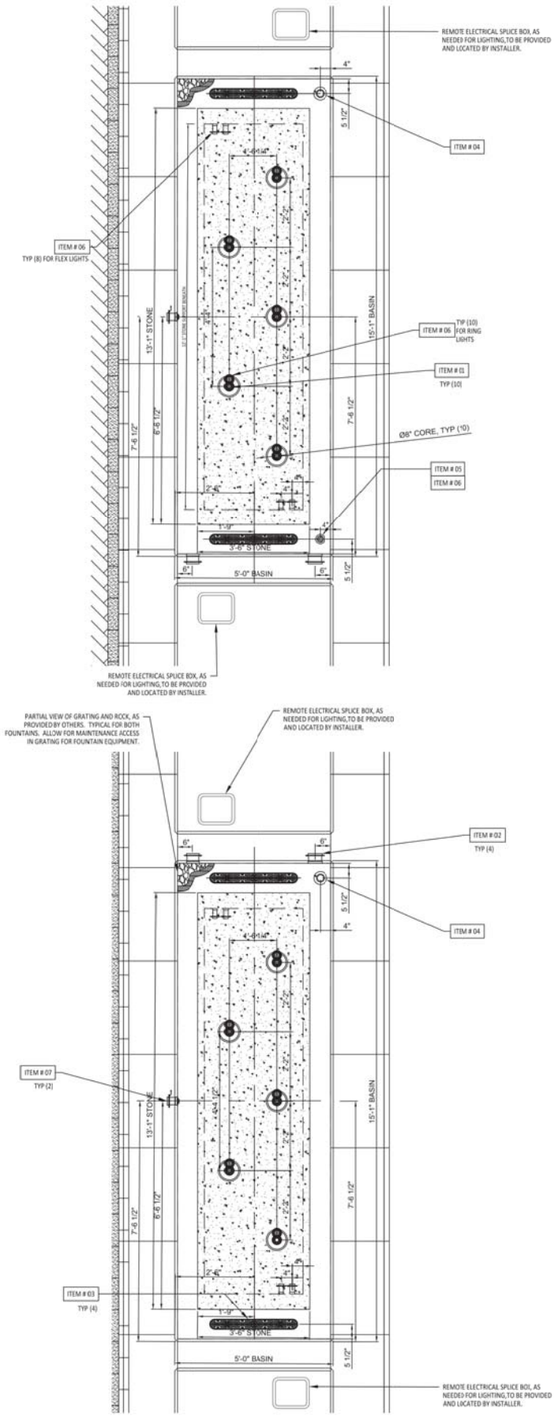
Item #	Qty	Component Number	Description
^01	10	FWS-100	1" Waterstop Fitting
^02	4	FWS-400	4" Waterstop Fitting
^03	4	PCS-32-B	VGB Compliant Plastic Channel Sump
^04	2	FSD-200-P24566	Overflow Standpipe Drain
05	1	CWL-002C	Conduit Mounted Water Level Sensor
^06	19	FWS-050	1/2" Waterstop Fitting
^07	2	ST-EF-200	Adjustable Eyeball Inlet Fitting
08	4	FXPRO-FLEX-79	LED Underwater Flex Light
09	4	FXPRO-FLEX-197	LED Underwater Flex Light
10	10	FX-LED-RING-RGBW	LED Underwater Ring Light
10a	10	FX-LED-RING-ADP	LED Ring Light Adapter
11	1	DBVE-P24566	Direct Burial Vault
12	2	VCA-600	Vent Cap Assembly, 6"
13	1	WTC-920-P24566	Chemical Feeder Treatment Assembly

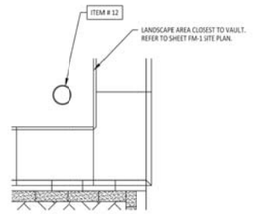
^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR.



FM-1

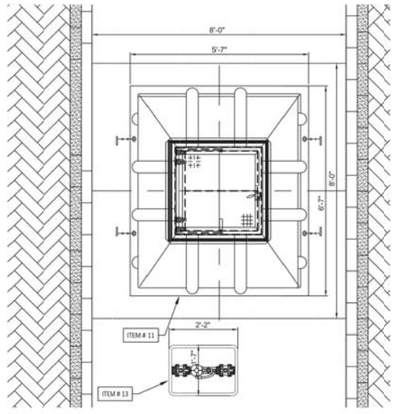
CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	FOUNTAIN SITE PLAN		COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JD	REVISED -					224	148
		CHECKED - WP	REVISED -					CONTRACT NO.	
		DATE - 4/26/2024	REVISED -		SCALE:	SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT





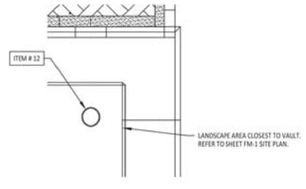
VAULT VENT CAP - PLAN VIEW

SCALE: 1/2" = 1'-0"



EQUIPMENT VAULT - PLAN VIEW

SCALE: 1/2" = 1'-0"



VAULT VENT CAP - PLAN VIEW

SCALE: 1/2" = 1'-0"

Joliet City Square
Double Rectangle Fountain
Equipment List
Fountain People 03/18/24

Item #	Qty	Component Number	Description
^01	10	FWS-100	1" Waterstop Fitting
^02	4	FWS-400	4" Waterstop Fitting
^03	4	PCS-32-B	YGB Compliant Plastic Channel Sump
^04	2	FSD-200-P24566	Overflow Standpipe Drain
05	1	CWL-002C	Conduit Mounted Water Level Sensor
^06	19	FWS-050	1/2" Waterstop Fitting
^07	2	ST-EF-200	Adjustable Eyeball Inlet Fitting
08	4	FXPRO-FLEX-79	LED Underwater Flex Light
09	4	FXPRO-FLEX-197	LED Underwater Flex Light
10	10	FX-LED-RING-RGBW	LED Underwater Ring Light
10a	10	FX-LED-RING-ADP	LED Ring Light Adapter
11	1	DBVE-P24566	Direct Burial Vault
12	2	VCA-600	Vent Cap Assembly, 6"
13	1	WTC-920-P24566	Chemical Feeder Treatment Assembly

^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR.

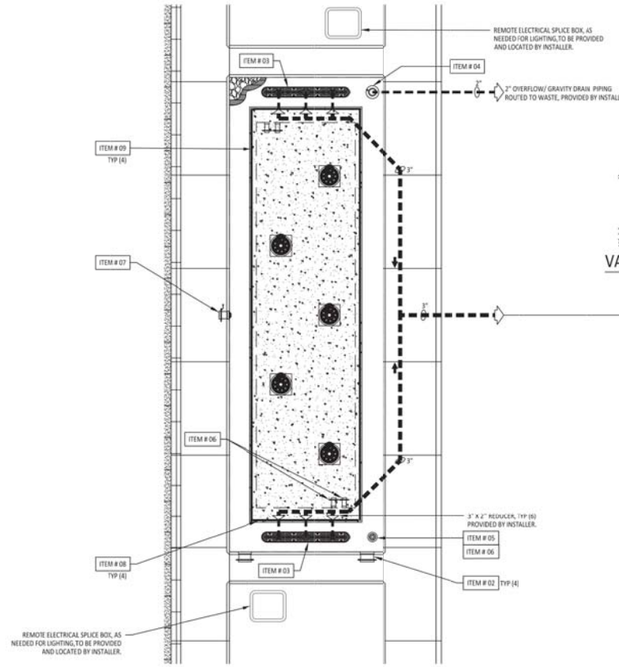
NOTE:
ARCHITECTURAL DETAILING SHOWN FOR REFERENCE ONLY.

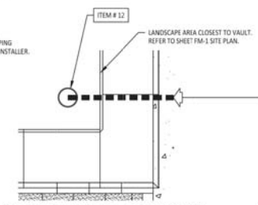
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NOTE:
LIGHTING FIXTURES AND PRECAST BLOCK ABOVE NOZZLES HIDDEN FOR CLARITY.

FM-2

CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	FOUNTAIN DIMENSION PLAN		COUNTY	TOTAL SHEETS 224 / SHEET NO. 149
		DRAWN - JD	REVISED -					
		CHECKED - WP	REVISED -				CONTRACT NO.	
		DATE - 4/26/2024	REVISED -		SCALE:	SHEET OF SHEETS STA. TO STA.	ILLINOIS	FED. AID PROJECT

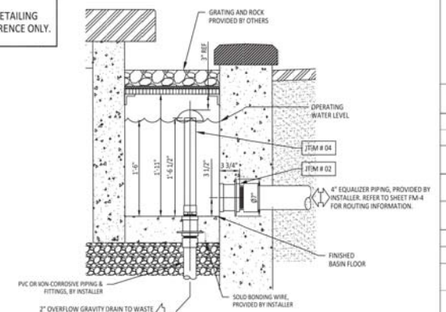




VAULT VENT CAP - PLAN VIEW

SCALE: 1/2" = 1'-0"

NOTE:
ARCHITECTURAL DETAILING SHOWN FOR REFERENCE ONLY.



SECTION 'A'

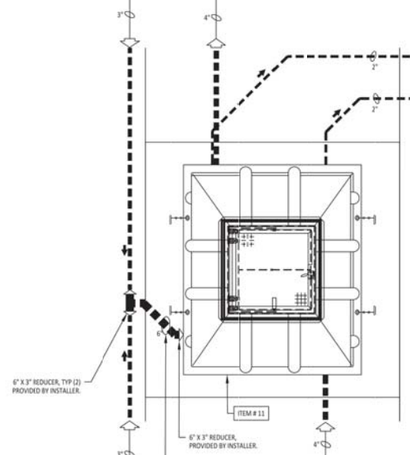
SCALE: 1" = 1'-0"

Joliet City Square
Double Rectangle Fountain
Equipment List
Fountain People 03/18/24

Item #	Qty	Component Number	Description
^01	10	FWS-100	1" Waterstop Fitting
^02	4	FWS-400	4" Waterstop Fitting
^03	4	PCS-32-B	VGB Compliant Plastic Channel Sump
^04	2	FSD-200-P24566	Overflow Standpipe Drain
05	1	CWL-002C	Conduit Mounted Water Level Sensor
^06	19	FWS-050	1/2" Waterstop Fitting
^07	2	ST-EF-200	Adjustable Eyeball Inlet Fitting
08	4	FXPRO-FLEX-79	LED Underwater Flex Light
09	4	FXPRO-FLEX-197	LED Underwater Flex Light
10	10	FX-LED-RING-RGBW	LED Underwater Ring Light
10a	10	FX-LED-RING-ADP	LED Ring Light Adapter
11	1	DBVE-P24566	Direct Burial Vault
12	2	VCA-600	Vent Cap Assembly, 6"
13	1	WTC-920-P24566	Chemical Feeder Treatment Assembly

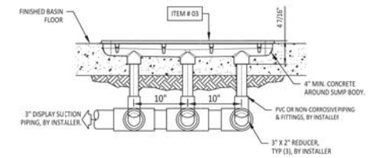
^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR

NOTE: ALL PIPING AND CONDUITS SHOWN ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO REPRESENT THE ACTUAL PIPE ROUTING FOR THIS PROJECT.



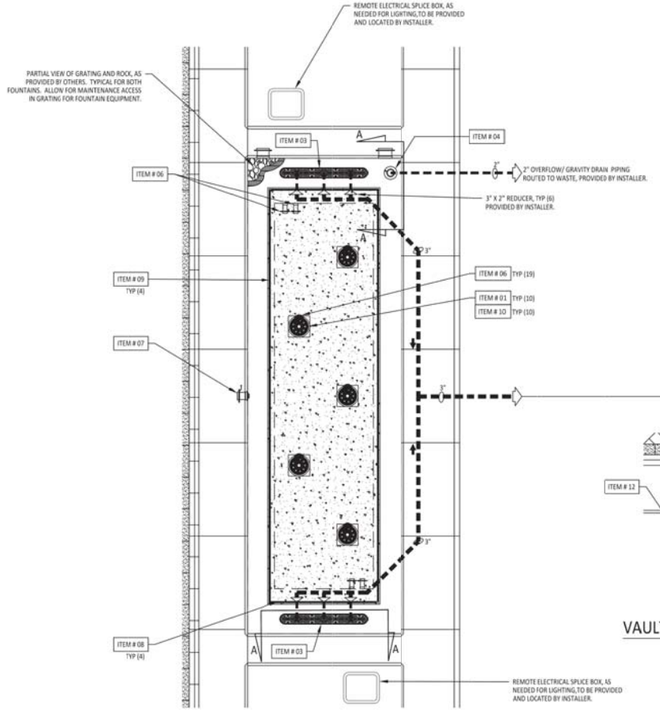
EQUIPMENT VAULT - PLAN VIEW

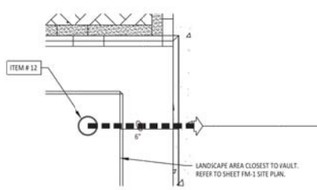
SCALE: 1/2" = 1'-0"



SECTION 'B'

SCALE: 1" = 1'-0"





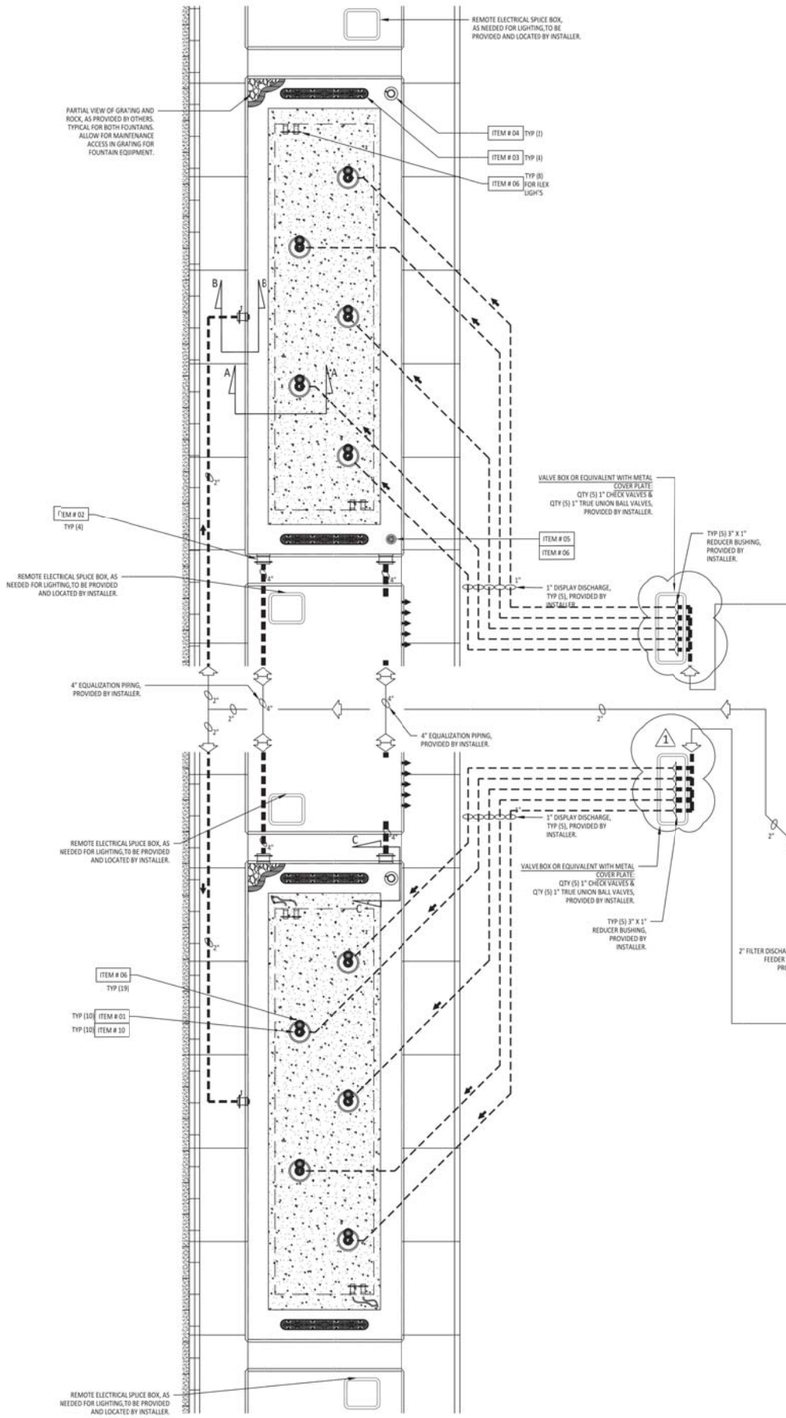
VAULT VENT CAP - PLAN VIEW

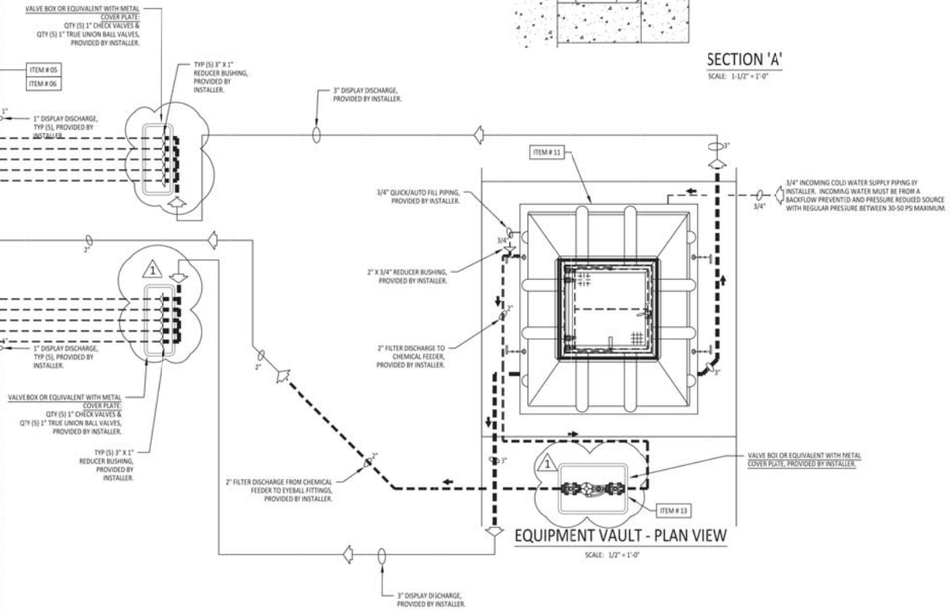
SCALE: 1/2" = 1'-0"

6" VENT PIPING, PROVIDED BY INSTALLER.

FM-3

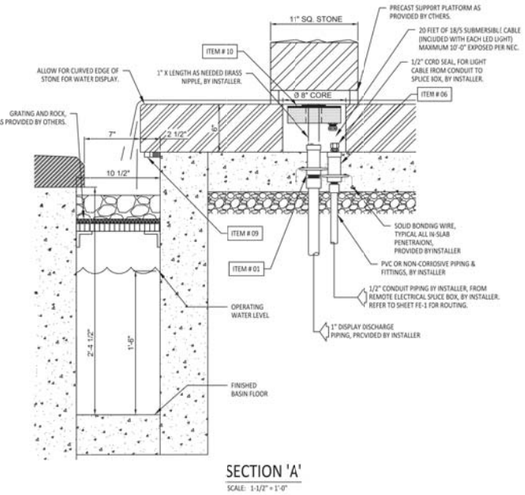
CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	FOUNTAIN SUCTION, DRAIN & VENT PLAN		COUNTY	TOTAL SHEETS 224 / SHEET NO. 150
		DRAWN - JD	REVISED -					CONTRACT NO.
		CHECKED - WP	REVISED -					ILLINOIS FED. AID PROJECT
		DATE - 4/26/2024	REVISED -		SCALE:	SHEET OF SHEETS STA. TO STA.		





EQUIPMENT VAULT - PLAN VIEW

SCALE: 1/2" = 1'-0"



SECTION 'A'

SCALE: 1-1/2" = 1'-0"

Joliet City Square
Double Rectangle Fountain
Equipment List
Fountain People 03/18/24

Item #	Qty	Component Number	Description
^01	10	FWS-100	1" Waterstop Fitting
^02	4	FWS-400	4" Waterstop Fitting
^03	4	PCS-32-B	VGB Compliant Plastic Channel Sump
^04	2	FSD-200-P24566	Overflow Standpipe Drain
05	1	CWL-002C	Conduit Mounted Water Level Sensor
^06	19	FWS-050	1/2" Waterstop Fitting
^07	2	ST-EF-200	Adjustable Eyeball Inlet Fitting
08	4	FXPRO-FLEX-79	LED Underwater Flex Light
09	4	FXPRO-FLEX-197	LED Underwater Flex Light
10	10	FX-LED-RING-RGBW	LED Underwater Ring Light
10a	10	FX-LED-RING-ADP	LED Ring Light Adapter
11	1	DBVE-P24566	Direct Burial Vault
12	2	VCA-600	Vent Cap Assembly, 6"
13	1	WTC-920-P24566	Chemical Feeder Treatment Assembly

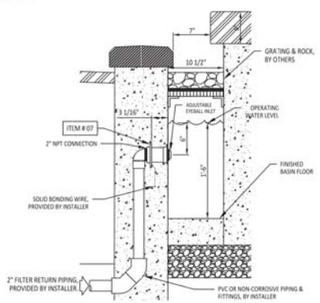
^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR.

NOTE: ALL PIPING AND CONDUITS SHOWN ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO REPRESENT THE ACTUAL PIPE ROUTING FOR THIS PROJECT.

NOTE:
ARCHITECTURAL DETAILING SHOWN FOR REFERENCE ONLY.

1

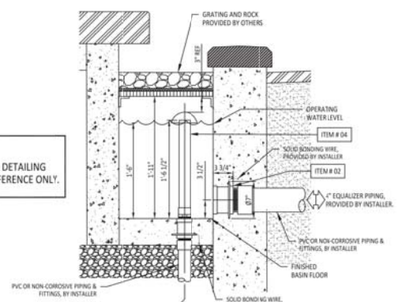
NOTE:
LIGHTING FIXTURES AND PRECAST BLOCK ABOVE NOZZLES HIDDEN FOR CLARITY.



SECTION 'B'

SCALE: 1" = 1'-0"

NOTE:
ARCHITECTURAL DETAILING SHOWN FOR REFERENCE ONLY.

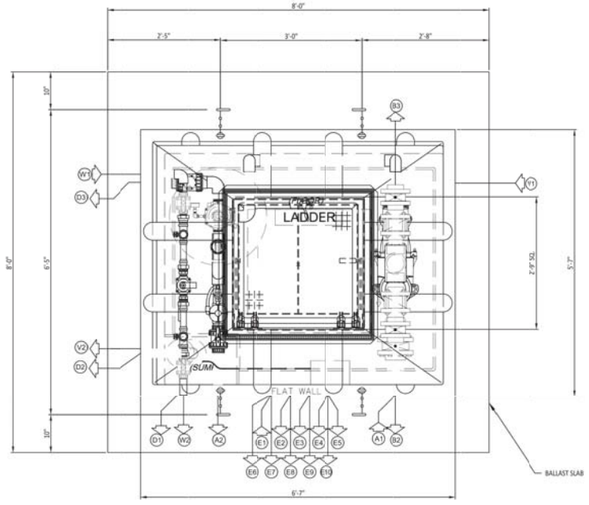


SECTION 'C'

SCALE: 1" = 1'-0"

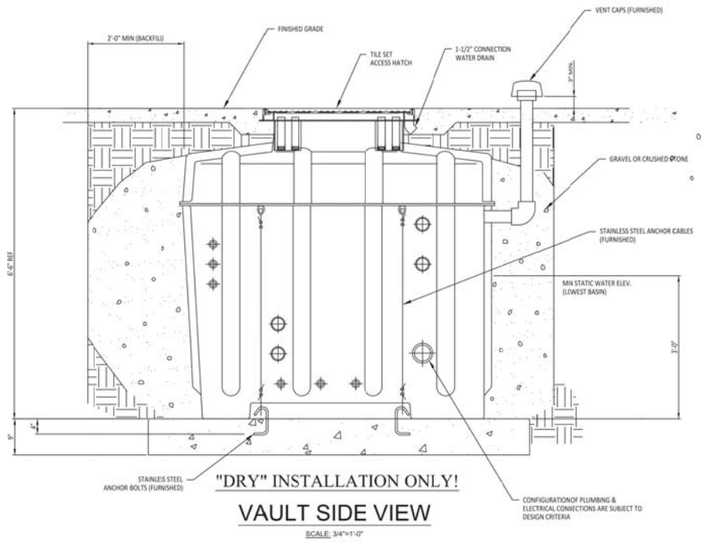
FM-4

CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	FOUNTAIN DISCHARGE, FILL & EQUALIZATION PLAN		COUNTY	TOTAL SHEETS 224 / SHEET NO. 151
		DRAWN - JD	REVISED -					
		CHECKED - WP	REVISED -				CONTRACT NO.	
		DATE - 4/26/2024	REVISED -		SCALE:	SHEET OF SHEETS STA. 1" = 40'-0" TO STA.	ILLINOIS	FED. AID PROJECT



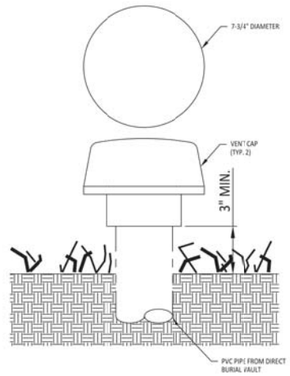
VAULT PLAN VIEW

SCALE: 3/4"=1'-0"



VAULT SIDE VIEW

SCALE: 3/4"=1'-0"



VENT CAP DETAIL

SCALE: AS SHOWN

SEE FM-6 FOR ADDITIONAL INSTALLATION INFORMATION

INSTALLER CONNECTION NOTIFICATION

DUE TO FINAL FABRICATION PROCESSES, THE LOCATIONS FOR ALL PENETRATIONS INDICATED ARE "APPROXIMATE".

IN THE EVENT SPECIFIC LOCATIONS ARE REQUIRED DUE TO FIELD CONDITIONS, AVOIDANCE OF OTHER TRADES, ETC, PLEASE CONTACT FOUNTAIN PEOPLE.

SYSTEM POWER REQUIREMENT:
120/208V, THREE PHASE, 4-WIRE FEEDER + GND. @ 40.0 AMPS
CONTACT FACTORY IMMEDIATELY IF NOT AVAILABLE.

PIPING/CONDUIT LEGEND		
SYM.	SIZE	DESCRIPTION
A1	3"	FILTER/DISPLAY SUCTION PIPING CONNECTION. INSTALLER TO IMMEDIATELY INCREASE TO 6"
A2	2"	FILTER DISCHARGE PIPING CONNECTION
B2	3"	DISPLAY DISCHARGE PIPING CONNECTION
B3	3"	DISPLAY DISCHARGE PIPING CONNECTION
D1	2"	SUMP GRAVITY DRAIN CONNECTION (INSTALLER TO CAP IF NOT USED)
D2	2"	SUMP PUMP DISCHARGE (TO AIR GAP WASTE, BY INSTALLER)
D3	2"	SAND FILTER DISCHARGE (TO AIR GAP WASTE, BY INSTALLER)
E1	1"C.	***SEE ABOVE***
E2	1/2"C.	WATER LEVEL SENSOR CONDUIT FROM VAULT TO SENSOR
E3	1"C.	CONDUIT FROM VAULT TO ELECTRICAL SPLICE BOX (FOR LED LIGHTS)
E4	1"C.	CONDUIT FROM VAULT TO ELECTRICAL SPLICE BOX (FOR LED LIGHTS)

PIPING/CONDUIT LEGEND		
SYM.	SIZE	DESCRIPTION
E5	1"C.	CONDUIT FROM VAULT TO ELECTRICAL SPLICE BOX (FOR LED LIGHTS)
E6	1"C.	CONDUIT FROM VAULT TO ELECTRICAL SPLICE BOX (FOR LED LIGHTS)
E7	1"C.	CONDUIT FROM VAULT TO ELECTRICAL SPLICE BOX (FOR LED LIGHTS)
E8	1"C.	CONDUIT FROM VAULT TO ELECTRICAL SPLICE BOX (FOR LED LIGHTS)
E9	1"C.	CONDUIT FROM VAULT TO ELECTRICAL SPLICE BOX (FOR LED LIGHTS)
E10	1"C.	CONDUIT FROM VAULT TO ELECTRICAL SPLICE BOX (FOR LED LIGHTS)
V1	6"	PVC 'SOCKET' IN'AKE VENT
V2	6"	PVC 'SOCKET' EXHAUST VENT
W1	3/4"	C.W.S. IN FROM CODE COMPLIANT, BACKFLOW PROTECTED SOURCE. REGULATE WATER PRESSURE DOWN TO 50 PSI MAX. / 30 PSI MIN., BY INSTALLER
W2	3/4"	WATER FILL/MAKE-UP TO 2" FILTER RETURN PIPING, OUTSIDE VAULT; BY INSTALLER

ADVISORY

THE CONSTRUCTION OF THE DBV-SERIES DIRECT-BURIALVAULT IS INTENDED FOR "DRY" INSTALLATION ONLY!

ANY PROLONGED OR TEMPORARY EXCESS GROUND WATER SURROUNDING THE VAULT MAY CAUSE INTERNAL LEAKS. THIS INCLUDES, BUT IS NOT LIMITED TOO; INSTALLED GROUND IRRIGATION, RAIN, STORM RUNOFF, FLOODING OR OTHER WATER INTRODUCING EVENT.

IN THE EVENT THESE CONDITIONS MAY BE PRESENT AT ANYTIME, IT IS "NOT THE RESPONSIBILITY" OF THE FOUNTAIN PEOPLE TO MAKE ANY RECOMMENDATIONS BEYOND THE SCOPE OF THIS DRAWING PACKAGE. THE OWNER, LANDSCAPE ARCHITECT, ARCHITECT, SPECIFICATION WRITER AND/OR THE INSTALLER WILL COORDINATE AS NEEDED WITH THE PROPER SITE CIVIL ENGINEER TO CREATE A SUITABLE, PERMANENT INSTALLATION ENVIRONMENT FOR THE VAULT. ANY ADDITIONAL COSTS ASSOCIATED WITH OBTAINING THESE SERVICES ARE NOT THE RESPONSIBILITY OF THE FOUNTAIN PEOPLE.

FM-5

CIVILTECH

	DESIGNED - JD	REVISED -	
	DRAWN - JD	REVISED -	
	CHECKED - WP	REVISED -	
	DATE - 4/26/2024	REVISED -	

CITY OF JOLIET

DBVE-P24566 DIRECT BURIAL VAULT
INSTALLATION DETAILS SHEET 1

SCALE: | SHEET OF SHEETS | STA. TO STA.

		COUNTY	TOTAL SHEETS	SHEET NO.
			224	152
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

INSTALLATION INSTRUCTIONS

Receiving the Vault
Upon arrival of vault, check both interior and exterior for shipping damage. Report any damage found to the freight carrier and Fountain People, Inc. immediately. If vault is free of damage, proceed with installation. If equipment vault is not to be installed immediately, store in a covered area safe from flooding. If a sand filter is used, filtration sand must be provided and installed by others.

Excavation
Excavate as required and pour a flat ballast slab of size indicated on the drawing. Ballast slab should be reinforced with grid using #4 re-bar on 12" centers. Stainless steel anchor hooks should be tied to the reinforcing grid and located as detailed.

Installing the Vault in the Excavation
Rig vault with straps, taking care not to damage housing or piping connections. Do not use chains or cables to rig vault. Lower vault onto the ballast slab and secure using the stainless steel hardware provided. If the vault is to be secured with cables, loop the stainless steel anchor cables (provided) around slab anchor hooks and through the tie-down lugs on vault. Secure cables with the connection hardware provided. Remove slack from the cables then tighten the cable clamps to the torque rating indicated on the thimble tag provided. Do not over-tighten the cables.

Safeguarding the Vault
If the vault is equipped with forced air ventilation, sump pumps, or gravity drains, these must be connected and made operational immediately. Do not allow excavation to fill with water prior to backfilling as the vault may flood through an opening or attempt to float and damage fittings or anchoring hardware.

Connecting the Vault
Connect all piping and conduit, as required, to connections provided on vault exterior. Do not externaly load the vault connections or allow the connections to support the weight of the connected piping. If the piping is not supported propery, soil settling can result in excessive loading on the piping. This can result in broken piping and misaligned connections in the vault.

Wiring the Vault
Conduit wiring must be sealed to prevent water from entering the vault through the conduit.

Pressure Testing the Connections
Pressure test all piping connected to vault to insure there are no leaks. All equipment and piping within vault has been factory pressure tested. Do not exceed 30 PSI in pressure testing any piping connected to vault.

ventilation Connections
If external vent piping is required, route it with as few bends as possble to a location safe from flooding. Length of vent piping should be as short as possible and should not exceed 20'-0". If a longer piping length is necessary, contact The Fountain People, Inc. Vent caps, if used, should be installed on ends of vent piping immediately to prevent rain or debris from entering the vent piping.

Backfilling
When backfilling, protect open ends of all piping to prevent backfill material from entering the piping system. Backfill material should be a rounded gavel or crushed stone (1/4" to 3/4" Max. and less than 5% fines). There should be at least 2'-0" of backfill material on all sides of vault between the vault and the surrounding earth. The top of the access hatch should be above finished grade (as indicated on the drawing) and located in an area that is safe from flooding. DO NOT USE SAND OR DIRT FOR BACKFILL. If the surrounding earth has poor drainage provide some means for water to drain away from the vault.

FAILURE TO FOLLOW ALL THE ABOVE PROCEDURES COULD RESULT IN SERIOUS DAMAGE TO THE EQUIPMENT AND WILL VOID THE WARRANTY ON THIS PRODUCT.

For any questions concerning these installation instructions or the installation of the vault system please contact Fountain People, Inc. at (512) 392-1155.

NOTICE TO INSTALLER

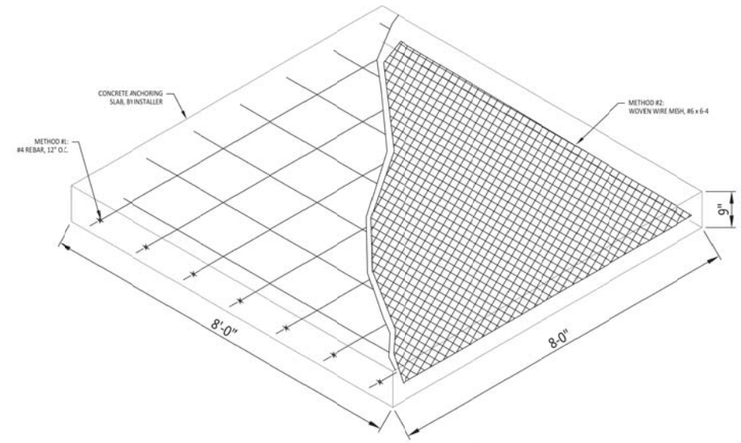
ALL GENERAL VAULT INSTALLATION, SITE PREPARATION AND "MEP" WORK SHOWN ARE PRESENTED AS MINIMUM REQUIREMENTS. STATE, COUNTY AND LOCAL CODES MAY REQUIRE ADDITIONAL CONSTRUCTION AND INSTALLATION METHODS TO COMPLY WITH LOCAL ORDINANCES. INSTALLER TO COORDINATE WITH GENERAL CONTRACTOR ON ANY SPECIFIC SITE INSTALLATION REQUIREMENTS.

ADVISORY

THE CONSTRUCTION OF THE G-SERIES DIRECT-BURIALVAULT IS INTENDED FOR "DRY" INSTALLATION ONLY!

ANY PROLONGED OR TEMPORARY EXCESS GROUND WATER SURROUNDING THE VAULT MAY CAUSE INTERNAL LEAKS. THIS INCLUDES, BUT IS NOT LIMITED TOO; INSTALLED GROUND IRRIGATION, RAIN, STORM RUNOFF, FLOODING OR OTHER WATER INTRODUCING EVENT.

IN THE EVENT THESE CONDITIONS MAY BE PRESENT AT ANYTIME, IT IS "NOT THE RESPONSIBILITY" OF THE FOUNTAIN PEOPLE TO MAKE ANY RECOMMENDATIONS BEYOND THE SCOPE OF THIS DRAWING PACKAGE. THE OWNER, LANDSCAPE ARCHITECT, ARCHITECT, SPECIFICATION WRITER AND/OR THE INSTALLER WILL COORDINATE AS NEEDED WITH THE PROPER SITE CIVIL ENGINEER TO CREATE A SUITABLE, PERMANENT INSTALLATION ENVIRONMENT FOR THE VAULT. ANY ADDITIONAL COSTS ASSOCIATED WITH OBTAINING THESE SERVICES ARE NOT THE RESPONSIBILITY OF THE FOUNTAIN PEOPLE.



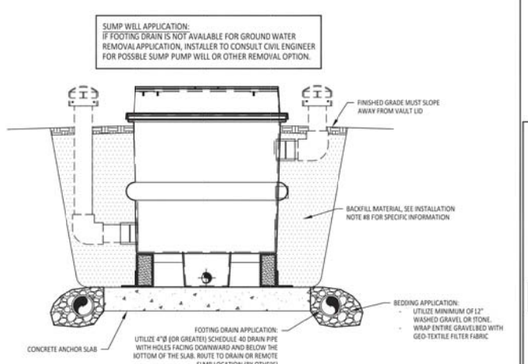
DUE TO FINAL ASSEMBLY AND DRILL LOCATIONS IN THE FIBERGLASS FROM THE FACTORY, INSTALLERTO FIELD VERIFY FINAL ANCHOR HOLE POSITIONS PRIOR TO LOCATING AND INSTALLING ANCHORS IN THE CONCRETE SLAB.

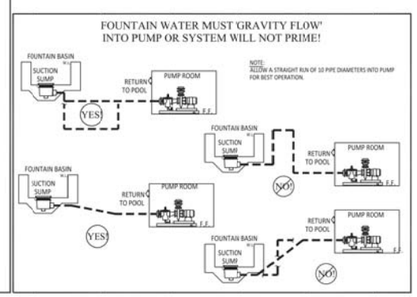
CONCRETE ANCHOR SLAB

SCALE: NONE

SEE FM-5 FOR ADDITIONAL INSTALLATION INFORMATION

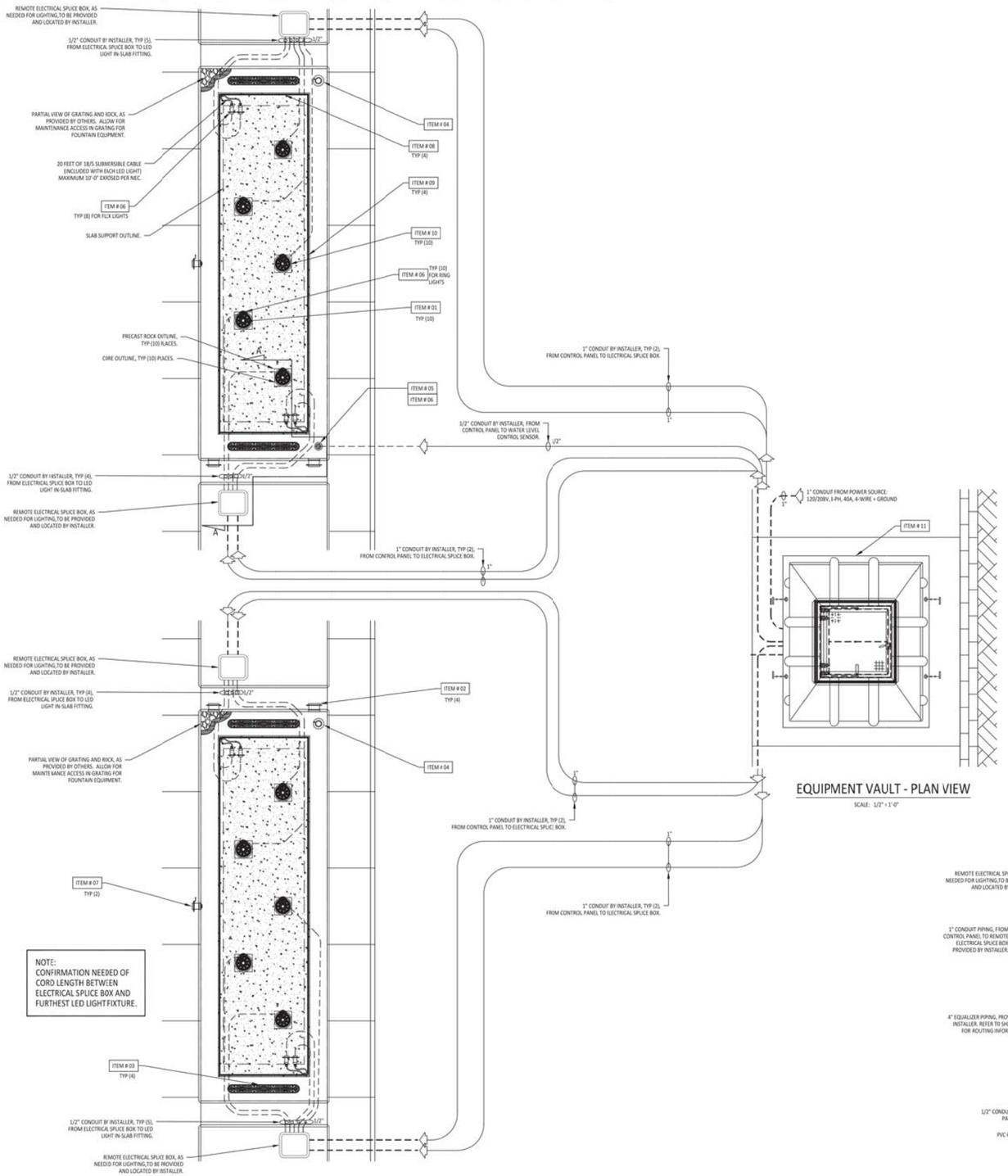
DBV-SERIES GROUND WATER REMOVAL APPLICATION
(IF REQUIRED, BY INSTALLER)





FM-6

CIVILTECH		DESIGNED - JD	REVISED -	CITY OF JOLIET	DBVE-P24566 DIRECT BURIAL VAULT INSTALLATION DETAILS SHEET 2		COUNTY / TOTAL SHEETS / SHEET NO.
		DRAWN - JD	REVISED -				224 / 153
		CHECKED - WP	REVISED -				CONTRACT NO.
		DATE - 4/26/2024	REVISED -		SCALE: / SHEET OF SHEETS / STA. 1" = 40'-0" / TO STA.		ILLINOIS / FED. AID PROJECT



Joliet City Square
Double Rectangle Fountain
Equipment List
Fountain People 03/18/24

Item #	Qty	Component Number	Description
^01	10	FWS-100	1" Waterstop Fitting
^02	4	FWS-400	4" Waterstop Fitting
^03	4	PCS-32-B	VGB Compliant Plastic Channel Sump
^04	2	FSD-200-P24566	Overflow Standpipe Drain
05	1	CWL-002C	Conduit Mounted Water Level Sensor
^06	19	FWS-050	1/2" Waterstop Fitting
^07	2	ST-EF-200	Adjustable Eyeball Inlet Fitting
08	4	FXPRO-FLEX-79	LED Underwater Flex Light
09	4	FXPRO-FLEX-197	LED Underwater Flex Light
10	10	FX-LED-RING-RGBW	LED Underwater Ring Light
10a	10	FX-LED-RING-ADP	LED Ring Light Adapter
11	1	DBVE-P24566	Direct Burial Vault
12	2	VCA-600	Vent Cap Assembly, 6"
13	1	WTC-920-P24566	Chemical Feeder Treatment Assembly

^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR.

NOTE: ALL PIPING AND CONDUITS SHOWN ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO REPRESENT THE ACTUAL PIPE ROUTING FOR THIS PROJECT.

FE-1

CIVILTECH		DESIGNED - JD	REVISED -
		DRAWN - JD	REVISED -
		CHECKED - WP	REVISED -
		DATE - 4/26/2024	REVISED -

CITY OF JOLIET

FOUNTAIN ELECTRICAL PLAN

SCALE: | SHEET OF SHEETS | STA. TO STA.

		COUNTY	TOTAL SHEETS	SHEET NO.
			224	154
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	CC	CC
MASTER CONTROLLER	MC	MC
MASTER MASTER CONTROLLER	MMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H H
DOUBLE HANDHOLE		
JUNCTION BOX	J	
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET	RXR	RXR
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P P	P P
SAMPLING (SYSTEM) DETECTOR	S S	S S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS IS	IS IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS QS	QS QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	P	P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	P RB	P RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

TS SHT NO. 01

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CITY OF JOLIET

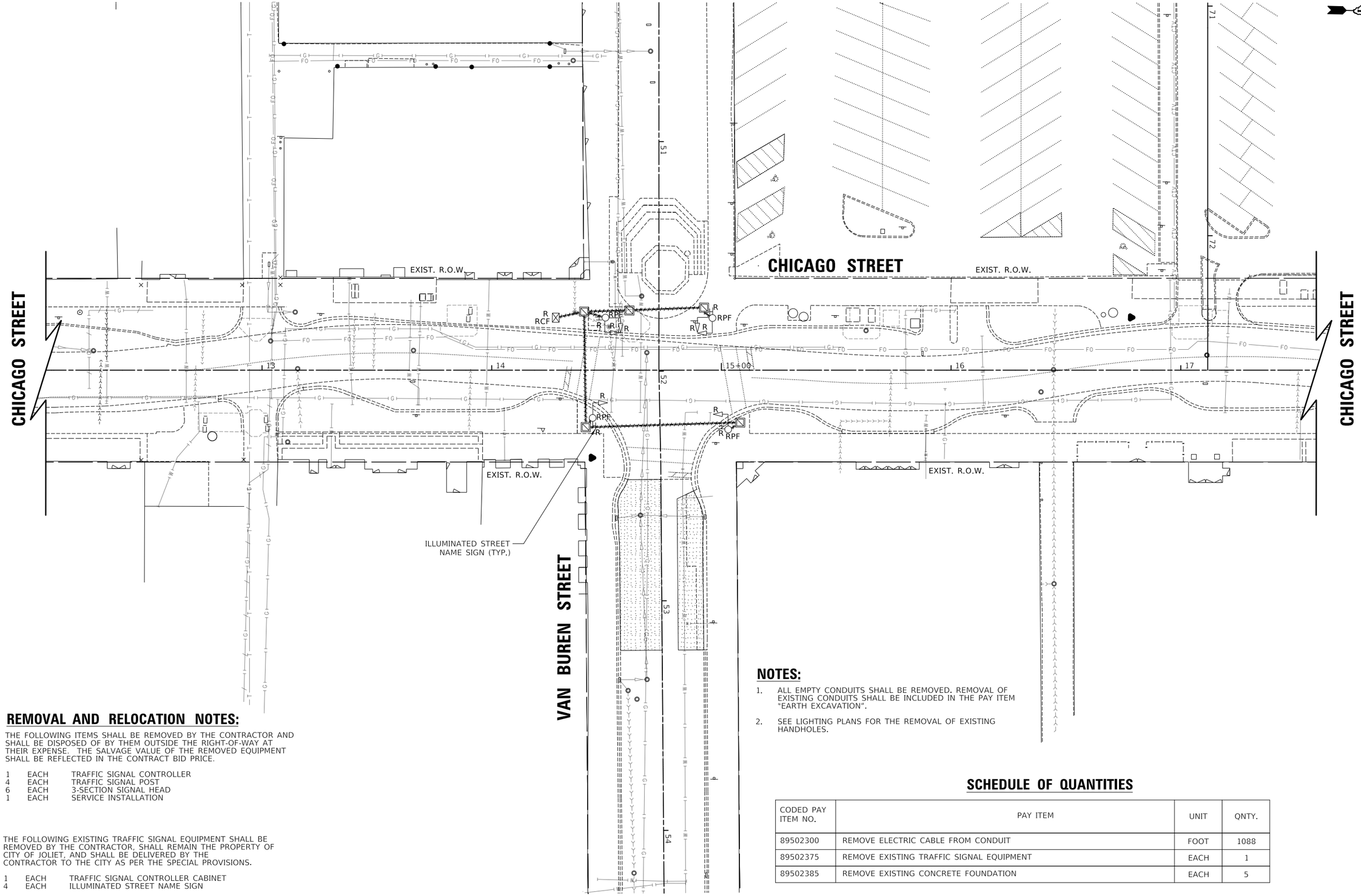
DISTRICT ONE

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	155
	TS-05	CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

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REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	TRAFFIC SIGNAL CONTROLLER
4	EACH	TRAFFIC SIGNAL POST
6	EACH	3-SECTION SIGNAL HEAD
1	EACH	SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF CITY OF JOLIET, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE CITY AS PER THE SPECIAL PROVISIONS.

1	EACH	TRAFFIC SIGNAL CONTROLLER CABINET
4	EACH	ILLUMINATED STREET NAME SIGN

NOTES:

1. ALL EMPTY CONDUITS SHALL BE REMOVED. REMOVAL OF EXISTING CONDUITS SHALL BE INCLUDED IN THE PAY ITEM "EARTH EXCAVATION".
2. SEE LIGHTING PLANS FOR THE REMOVAL OF EXISTING HANDHOLES.

SCHEDULE OF QUANTITIES

CODED PAY ITEM NO.	PAY ITEM	UNIT	QNTY.
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1088
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5

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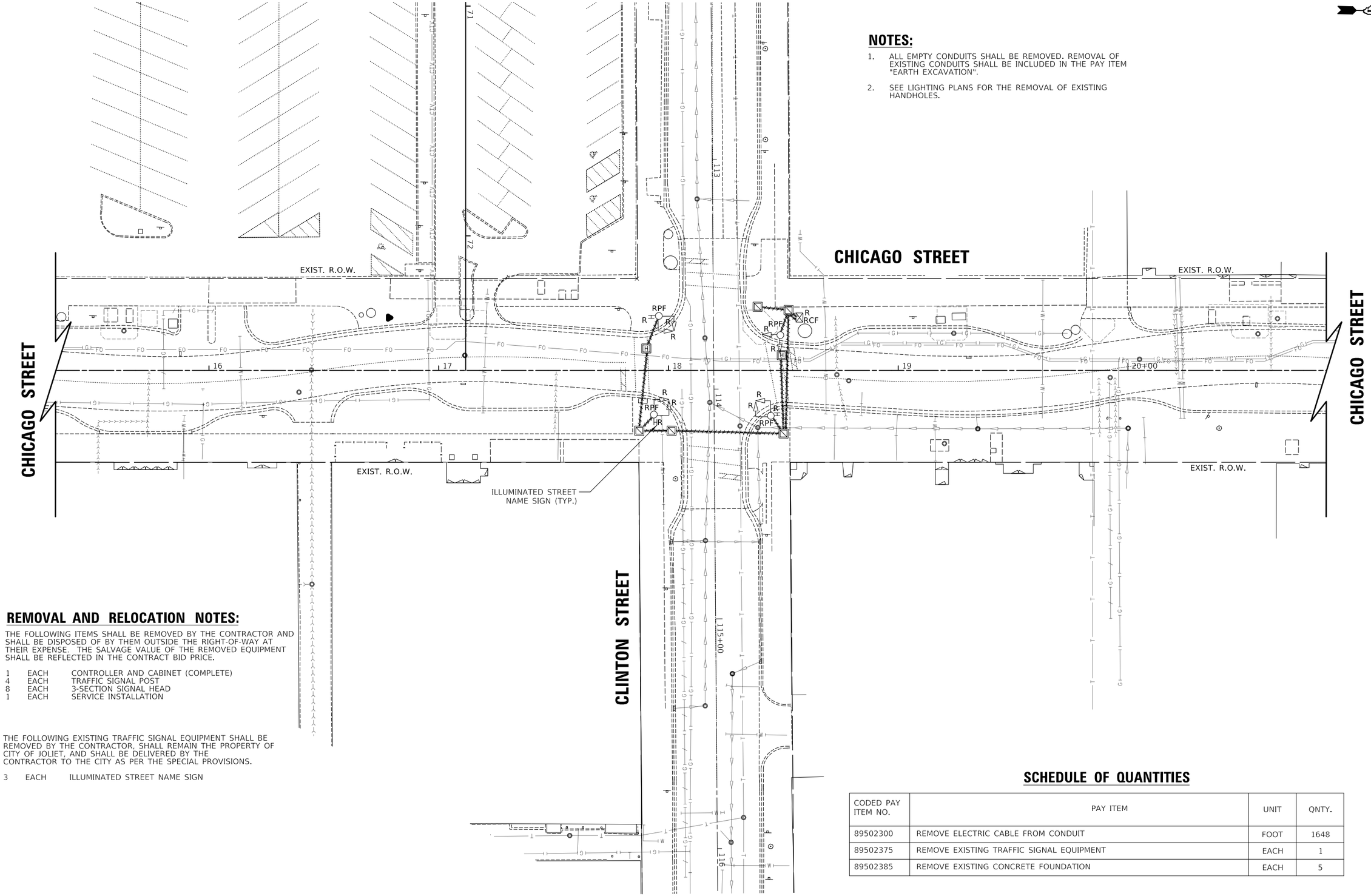
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PLOT DATE = 4/26/2024	DATE -	REVISED -	

CITY OF JOLIET

TRAFFIC SIGNAL REMOVAL PLAN
CHICAGO STREET AND VAN BUREN STREET

SCALE: 1" = 20' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	156
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. ALL EMPTY CONDUITS SHALL BE REMOVED. REMOVAL OF EXISTING CONDUITS SHALL BE INCLUDED IN THE PAY ITEM "EARTH EXCAVATION".
2. SEE LIGHTING PLANS FOR THE REMOVAL OF EXISTING HANDHOLES.

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET (COMPLETE)
4	EACH	TRAFFIC SIGNAL POST
8	EACH	3-SECTION SIGNAL HEAD
1	EACH	SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF CITY OF JOLIET, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE CITY AS PER THE SPECIAL PROVISIONS.

3	EACH	ILLUMINATED STREET NAME SIGN

SCHEDULE OF QUANTITIES

CODED PAY ITEM NO.	PAY ITEM	UNIT	QNTY.
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1648
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5

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PEN TABLE = $PENTBLL$
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PLOT DATE = 4/26/2024	DATE -	REVISED -

CITY OF JOLIET

TRAFFIC SIGNAL REMOVAL PLAN
CHICAGO STREET AND CLINTON STREET

SCALE: 1" = 20' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	157
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

LEGEND

EXISTING ROADWAY LIGHTING UNIT TO REMAIN

EXISTING PEDESTRIAN LIGHTING UNIT TO REMAIN

EXISTING LIGHTING CABLES

EXISTING LIGHTING UNIT TO BE REMOVED

EXISTING HANDHOLE TO BE REMOVED

REMOVAL OF EXISTING CABLES

TEMPORARY LIGHTING POLE

TEMPORARY POLE (AS SPECIFIED IN PLANS)

AERIAL CABLES (AS SPECIFIED IN PLANS)

PROPOSED STREET LIGHTING UNIT DUCT
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4-1C NO.6, 1/C NO.6 GROUND

PROPOSED TREE OUTLET UNIT DUCT
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4-1C NO.4, 1/C NO.4 GROUND

PROPOSED ILLUMINATED STOP SIGN UNIT DUCT
UNDERGROUND CONDUIT, GALVANIZED STEEL, 1-1/4" DIA.
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1C NO.8, 1/C NO.8 GROUND

PROPOSED TREE LIGHT UNIT DUCT
UNIT DUCT, 600V, 3-1C NO.8, 1/C NO. 8 GROUND,
(XLP-TYPE USE), 1 1/4" DIA.

PROPOSED FESTOON LIGHTING UNIT DUCT
UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND,
(XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE

PROPOSED FOUNTAIN LIGHT
UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4-1C NO.8, 1/C NO.8 GROUND

PROPOSED STREETSCAPE ROADWAY LIGHTING UNIT
LUMEC RN20 130 WATT LED (208V) AT 35 FT M.H.
LUMEC L81 80 WATT LED (208V) TYPE 3 DISTRIBUTION AT 15 FT M.H.

PROPOSED STREETSCAPE PEDESTRIAN LIGHTING UNIT TYPE 1
LUMEC L81 80 WATT (208V) LED TYPE 3 DISTRIBUTION AT 15 FT M.H.

PROPOSED STREETSCAPE PEDESTRIAN LIGHTING UNIT TYPE 2
LUMEC L81 80 WATT (208V) LED TYPE 5 DISTRIBUTION AT 15 FT M.H.

PROPOSED TREE OUTLET PEDESTAL BOX

PROPOSED HANDHOLE

PROPOSED LIGHTING CONTROLLER, BASE MOUNTED,
208 VOLT, 200 AMP

PROPOSED TREE LIGHT

LIGHTING GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
2. PAY ITEMS IN THE SUMMARY OF QUANTITIES HAVE BEEN ESTIMATED. IF, IN THE ENGINEER'S OPINION, ANY WORK IS NOT REQUIRED, THAT ITEM WILL BE DEDUCTED FROM THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
3. TRANSITION OF EXISTING TO TEMPORARY TO PROPOSED LIGHTING SYSTEM WILL BE COORDINATED AND COMPLETED ON THE SAME DAY WITHOUT ANY INTERRUPTION OF OPERATION FOR THAT SAME EVENING.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES AND LIGHTING CONTROLLERS FOR EXAMINATION AND CONFIRMATION WITH THE RESIDENT ENGINEER.
5. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO AUGURING FOR LIGHT POLE FOUNDATIONS. THE EXACT LOCATIONS FOR ALL ITEMS SHALL BE CONFIRMED WITH THE RESIDENT ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF FOUNDATIONS HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
7. FOUNDATION TYPE IS BASED ON KNOWN UTILITY INFORMATION. OFFSET FOUNDATION LOCATIONS WERE BASED ON ATLAS AND ABOVE GROUND STRUCTURES FOR LOCATION OF UTILITIES. WHERE POSSIBLE, OFFSET FOUNDATIONS SHOULD BE REPLACED WITH 24" DIAMETER FOUNDATIONS. FOUNDATION TYPE SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. CONTRACTOR WILL BE PAID FOR THE FOUNDATION TYPE INSTALLED WITH NO ADDITIONAL COMPENSATION FOR CHANGE FROM CONTRACT PLAN.
8. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
9. FOR ALL CONCRETE FOUNDATIONS, A MINIMUM OF 2 RACEWAYS SHALL BE PROVIDED REGARDLESS OF WHAT IS BEING INSTALLED. THE SLEEVES SHALL BE SEALED AND CAPPED TO PREVENT MOISTURE OR CONTAMINANTS. MATERIAL AND LABOR WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE PAY ITEM FOR LIGHT POLE FOUNDATION.
10. TO MAINTAIN THE STRUCTURAL INTEGRITY OF ALUMINUM POLES WITH MAST ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT THE CONTRACTOR SHALL NOT BE PAID FOR POLES UNTIL LUMINAIRES ARE INSTALLED.
11. ALL EMPTY CONDUITS SHALL BE REMOVED. REMOVAL OF EXISTING CONDUITS SHALL BE INCLUDED IN THE PAY ITEM EARTH EXCAVATION.
12. CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID COMED AND SIDEWALK VAULTS. IT SHALL ALSO AVOID CONFLICT WITH TREES, BUSHES, DRAINS, OTHER UTILITIES, AND LANDSCAPING.
13. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE ANY LIGHT STANDARD IS ERECTED.
14. THE INSTALLATION OF BURIED WARNING TAPE SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER.
15. SPLICING IN HANDHOLE SHALL BE WITH WATERPROOF SPLICE KIT AND WILL BE INCLUDED IN THE PAY ITEMS OF ELECTRIC CABLES OR UNIT DUCT.
16. ANY DAMAGE TO PAVEMENT, SIDEWALK, CURB, OR ANY OTHER PORTION OF THE ROADWAY NOT SPECIFICALLY TO BE REMOVED AND REPLACED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST AND REPLACEMENT SHALL MEET THE APPROVAL OF THE ENGINEER.
17. OFFSET CALL-OFFS FOR PROPOSED LIGHT POLES ARE FROM THE CENTER OF POLES TO PROPOSED CONSTRUCTION BASELINE.
18. CONTRACTOR SHALL VERIFY EXISTING HANDHOLE TO BE REMOVED DOES NOT HAVE WIRES THAT NEED TO REMAIN ACTIVE. CONTRACTOR WILL WORK WITH THE ENGINEER TO MAINTAIN CONNECTION.

LIGHTING SCHEDULE OF QUANTITIES

CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	CHICAGO STREET	CITY SQUARE
80400100	ELECTRIC SERVICE INSTALLATION	EACH	4	2	2
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	0.5	0.5
81028180	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/4" DIA.	FOOT	734	734	0
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	7511	4756	2755
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	730	400	330
81028330	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	437	0	437
81300730	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 14" X 6"	EACH	14	0	14
81400100	HANDHOLE	EACH	5	5	0
81800240	AERIAL CABLE, 2-1/C NO. 8 WITH MESSENGER WIRE	FOOT	2075	2075	0
81800340	AERIAL CABLE, 3-1/C NO. 8 WITH MESSENGER WIRE	FOOT	253	253	0
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	43	33	10
84200804	REMOVAL OF POLE FOUNDATION	EACH	43	33	10
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1	1	0
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1	1	0
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	14424	12944	1480
89502380	REMOVE EXISTING HANDHOLE	EACH	22	18	4
X1400450	REBUILD EXISTING HEAVY-DUTY HANDHOLE	EACH	1	1	0
X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	72	36	36
X8410102	TEMPORARY LIGHTING SYSTEM	L SUM	1	1	0
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	15	15	0
0	STREET LIGHT POLE FOUNDATION TYPE A	FOOT	440	80	360
0	UNIT DUCT, 600V, 3-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1000	0	1000
0	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO.6, 2-1/C NO. 8 1/C NO.8 GROUND	FOOT	25	25	0
0	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO.6, 1/C NO.6 GROUND	FOOT	189	0	189
0	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO.8, 1/C NO.8 GROUND	FOOT	790	790	0
0	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4-1/C NO.8, 1/C NO.8 GROUND	FOOT	437	0	437
0	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4-1/C NO.6, 1/C NO.6 GROUND	FOOT	4602	2935	1667
0	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4-1/C NO.4, 1/C NO.4 GROUND	FOOT	4112	2666	1446
0	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4-1/C NO. 3/0	FOOT	910	400	510
0	LIGHTING CONTROLLER, BASE MOUNTED, 208 VOLT, 200 AMP	EACH	4	2	2
0	LUMINAIRE, LED, STREETSCAPE ROADWAY	EACH	10	10	0
0	LUMINAIRE, LED, STREETSCAPE PEDESTRIAN, TYPE 1	EACH	34	34	0
0	LUMINAIRE, LED, STREETSCAPE PEDESTRIAN, TYPE 2	EACH	29	0	29
0	LIGHT POLE, STREETSCAPE ROADWAY	EACH	10	10	0
0	LIGHT POLE, STREETSCAPE PEDESTRIAN	EACH	63	34	29
0	TREE OUTLET 5X10 PEDESTAL BOX, 15 AMPS	EACH	57	25	32
0	TREE OUTLET 5X10 PEDESTAL BOX, 20 AMPS	EACH	13	13	0
0	TREE OUTLET 5X5 REMOVABLE PEDESTAL BOX, 20 AMPS	EACH	1	0	1
0	TREE OUTLET PEDESTAL BOX FOUNDATION	EACH	70	38	32
0	PAVEMENT POCKET HANDHOLE	EACH	1	0	1
0	ILLUMINATED STOP SIGN COMPLETE	EACH	8	8	0
0	FESTOON LIGHTING	L SUM	1	0	1
0	DMX CONTROLLER	L SUM	1	0	1
0	SMART LIGHTING SYSTEM	L SUM	1	0	1

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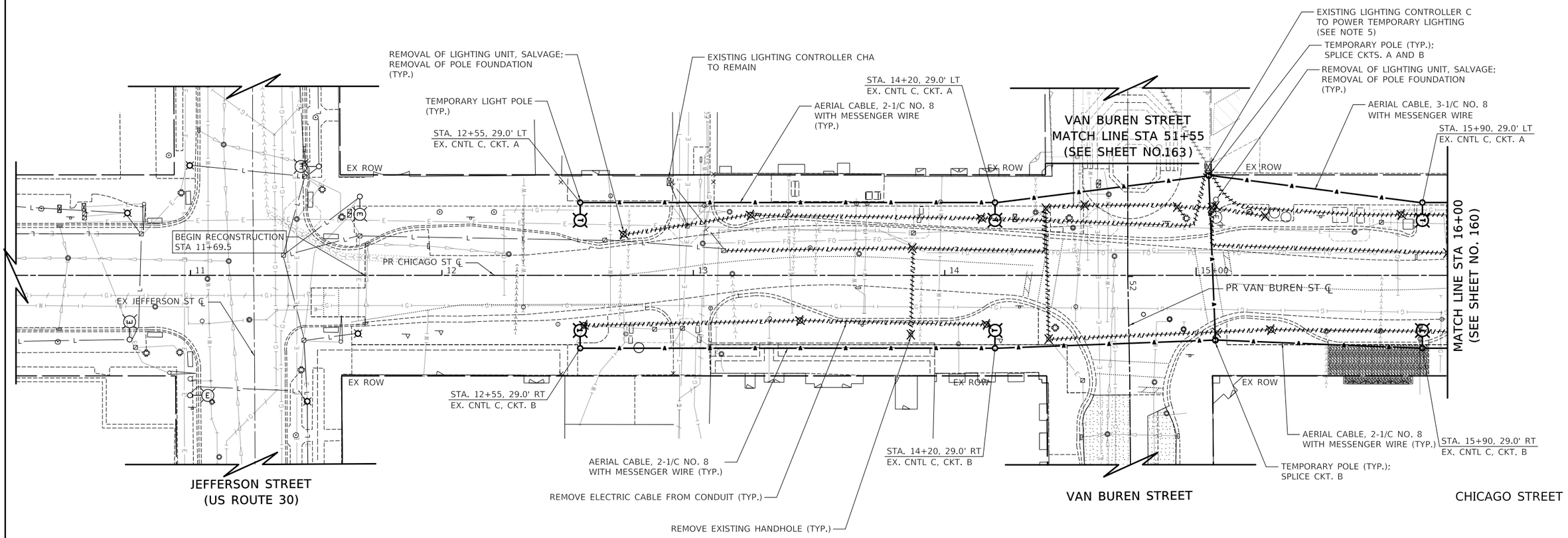
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CITY OF JOLIET

LIGHTING LEGEND, GENERAL NOTES, AND BILL OF MATERIAL

SCALE: N.T.S | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	158
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. ALL EMPTY CONDUITS SHALL BE REMOVED. REMOVAL OF EXISTING CONDUITS SHALL BE INCLUDED IN THE PAY ITEM "EARTH EXCAVATION".
2. PLACEMENT OF THE TEMPORARY LIGHTING FOUNDATION BLOCK MUST BE ON LEVEL GROUND. SEE DETAIL SHEET FOR TEMPORARY LIGHT POLE DETAIL.
3. MAXIMUM SPACING BETWEEN TEMPORARY POLES IS 175 FEET.
4. TEMPORARY AERIAL CABLE CROSSING THE ROADWAY SHALL MAINTAIN A MINIMUM OF 18 FEET OF VERTICAL CLEARANCE OVER THE ROADWAY AT ALL TIMES.
5. REMOVAL OF THE EXISTING LIGHTING CONTROLLER AFTER THE PROPOSED LIGHTING SYSTEM IS INSTALLED AND FULLY OPERATIONAL.

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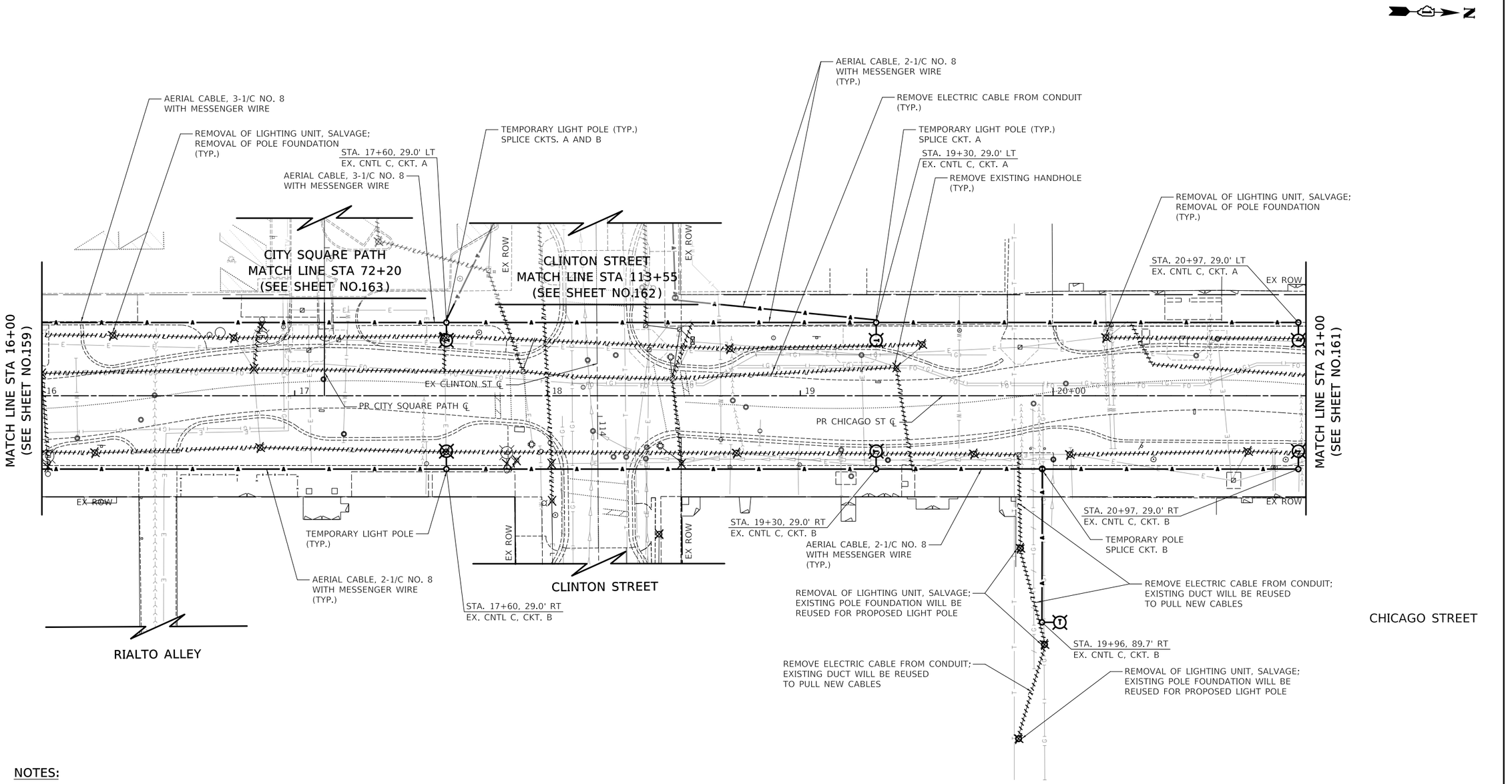
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CITY OF JOLIET

REMOVAL LIGHTING PLANS
CHICAGO STREET

SCALE: 1" = 20' | SHEET 2 OF SHEETS | STA. 11+69.5 | TO STA. 16+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	159
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. ALL EMPTY CONDUITS SHALL BE REMOVED. REMOVAL OF EXISTING CONDUITS SHALL BE INCLUDED IN THE PAY ITEM "EARTH EXCAVATION".
2. PLACEMENT OF THE TEMPORARY LIGHTING FOUNDATION BLOCK MUST BE ON LEVEL GROUND. SEE DETAIL SHEET FOR TEMPORARY LIGHT POLE DETAIL.
3. MAXIMUM SPACING BETWEEN TEMPORARY POLES IS 175 FEET.
4. TEMPORARY AERIAL CABLE CROSSING THE ROADWAY SHALL MAINTAIN A MINIMUM OF 18 FEET OF VERTICAL CLEARANCE OVER THE ROADWAY AT ALL TIMES.

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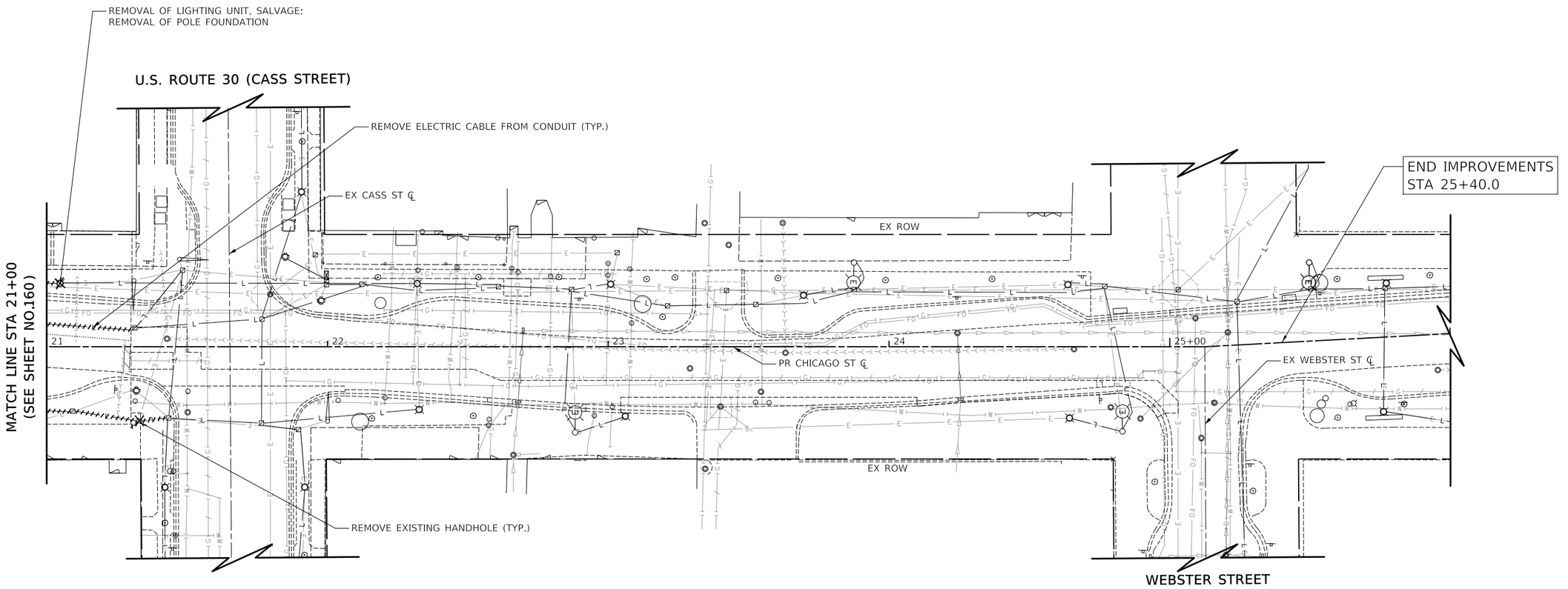
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CITY OF JOLIET

REMOVAL LIGHTING PLANS
CHICAGO STREET

SCALE: 1" = 20' | SHEET 3 OF SHEETS | STA. 16+00 | TO STA. 21+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	160
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. ALL EMPTY CONDUITS SHALL BE REMOVED. REMOVAL OF EXISTING CONDUITS SHALL BE INCLUDED IN THE PAY ITEM "EARTH EXCAVATION".
2. PLACEMENT OF THE TEMPORARY LIGHTING FOUNDATION BLOCK MUST BE ON LEVEL GROUND. SEE DETAIL SHEET FOR TEMPORARY LIGHT POLE DETAIL.
3. MAXIMUM SPACING BETWEEN TEMPORARY POLES IS 175 FEET.
4. TEMPORARY AERIAL CABLE CROSSING THE ROADWAY SHALL MAINTAIN A MINIMUM OF 18 FEET OF VERTICAL CLEARANCE OVER THE ROADWAY AT ALL TIMES.

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBL$
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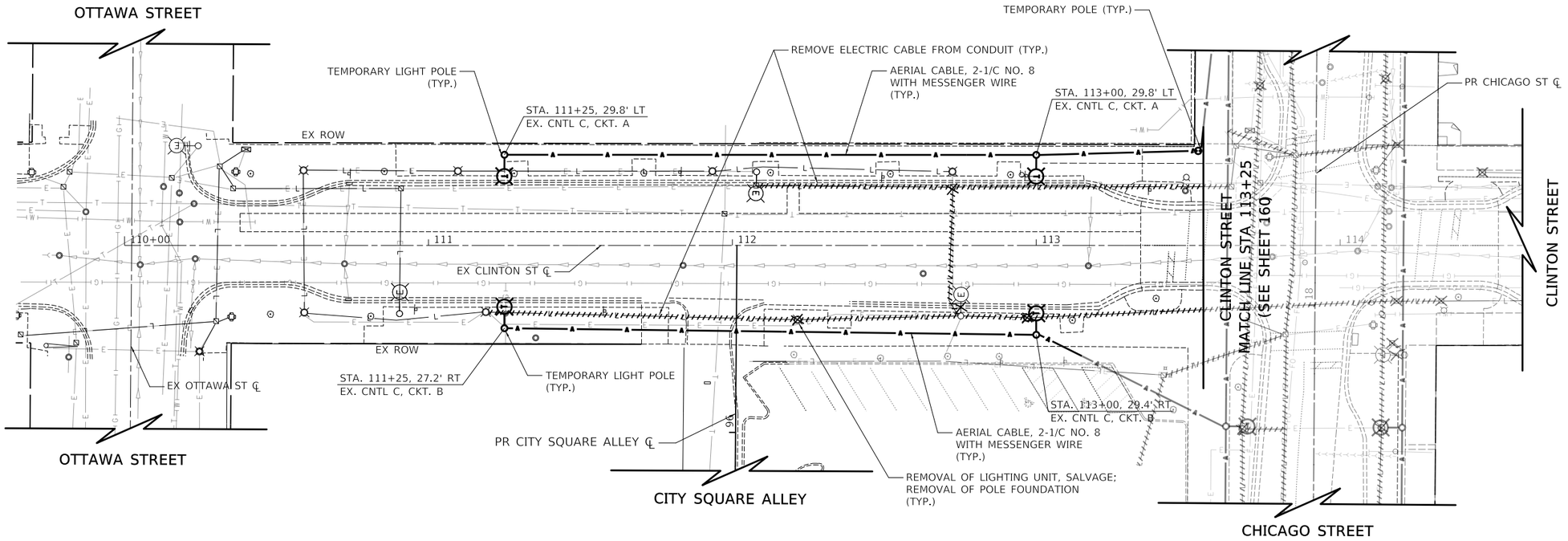
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

REMOVAL LIGHTING PLANS
CHICAGO STREET

SCALE: 1" = 20' | SHEET 4 OF SHEETS | STA. 21+00 | TO STA. 25+40.0

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	161
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. ALL EMPTY CONDUITS SHALL BE REMOVED. REMOVAL OF EXISTING CONDUITS SHALL BE INCLUDED IN THE PAY ITEM "EARTH EXCAVATION".
2. PLACEMENT OF THE TEMPORARY LIGHTING FOUNDATION BLOCK MUST BE ON LEVEL GROUND. SEE DETAIL SHEET FOR TEMPORARY LIGHT POLE DETAIL.
3. MAXIMUM SPACING BETWEEN TEMPORARY POLES IS 175 FEET.
4. TEMPORARY AERIAL CABLE CROSSING THE ROADWAY SHALL MAINTAIN A MINIMUM OF 18 FEET OF VERTICAL CLEARANCE OVER THE ROADWAY AT ALL TIMES.

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PEN TABLE = $PENTBLL$
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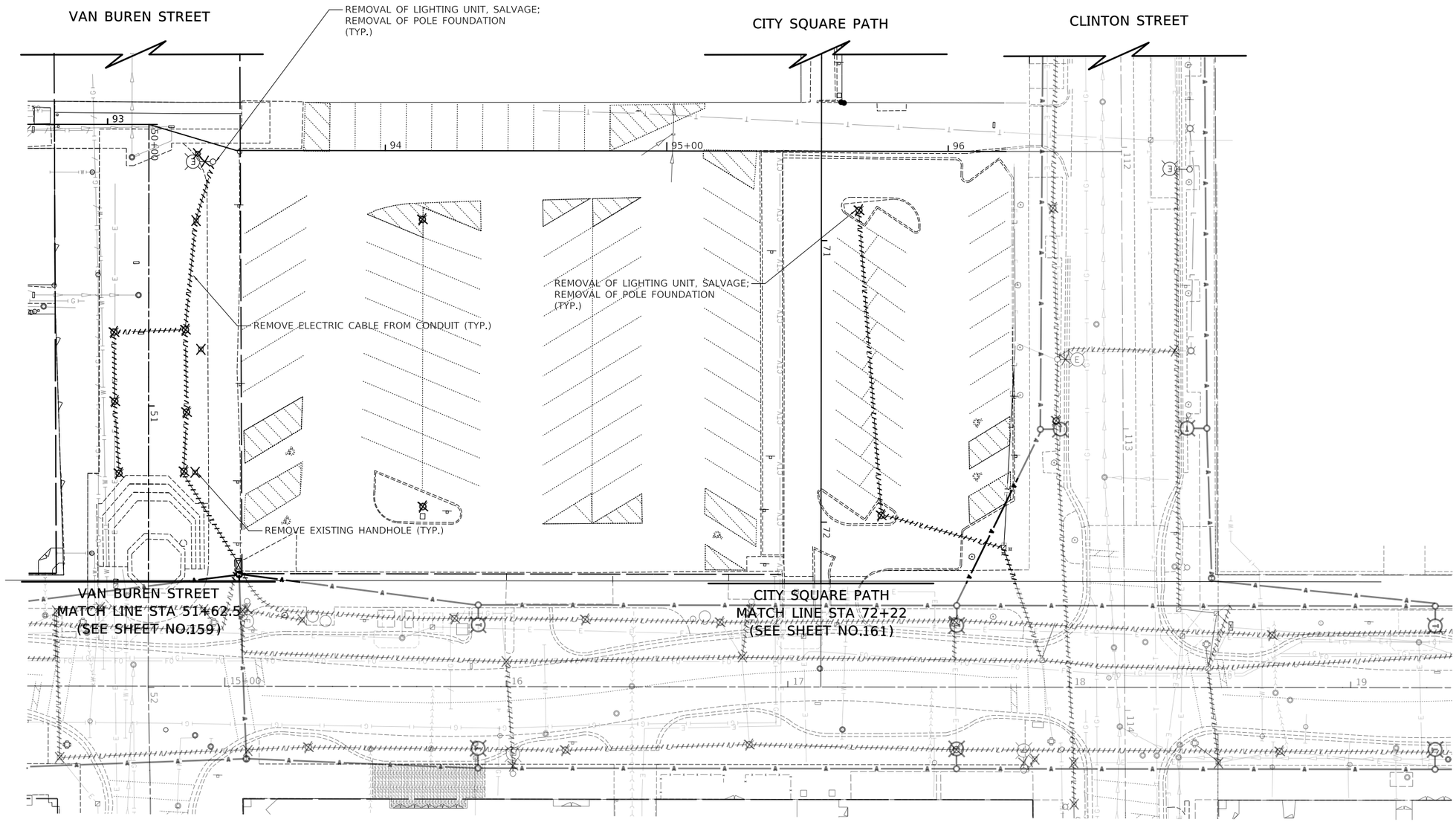
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PLOT SCALE = 40.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

REMOVAL LIGHTING PLANS
CLINTON STREET

SCALE: 1" = 20' | SHEET 5 OF SHEETS | STA. 110+00 | TO STA. 113+55

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	162
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



NOTE:

1. ALL EMPTY CONDUITS SHALL BE REMOVED. REMOVAL OF EXISTING CONDUITS SHALL BE INCLUDED IN THE PAY ITEM "EARTH EXCAVATION".

CITY SQUARE - SITE PLAN

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBL$
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CIVILTECH

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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

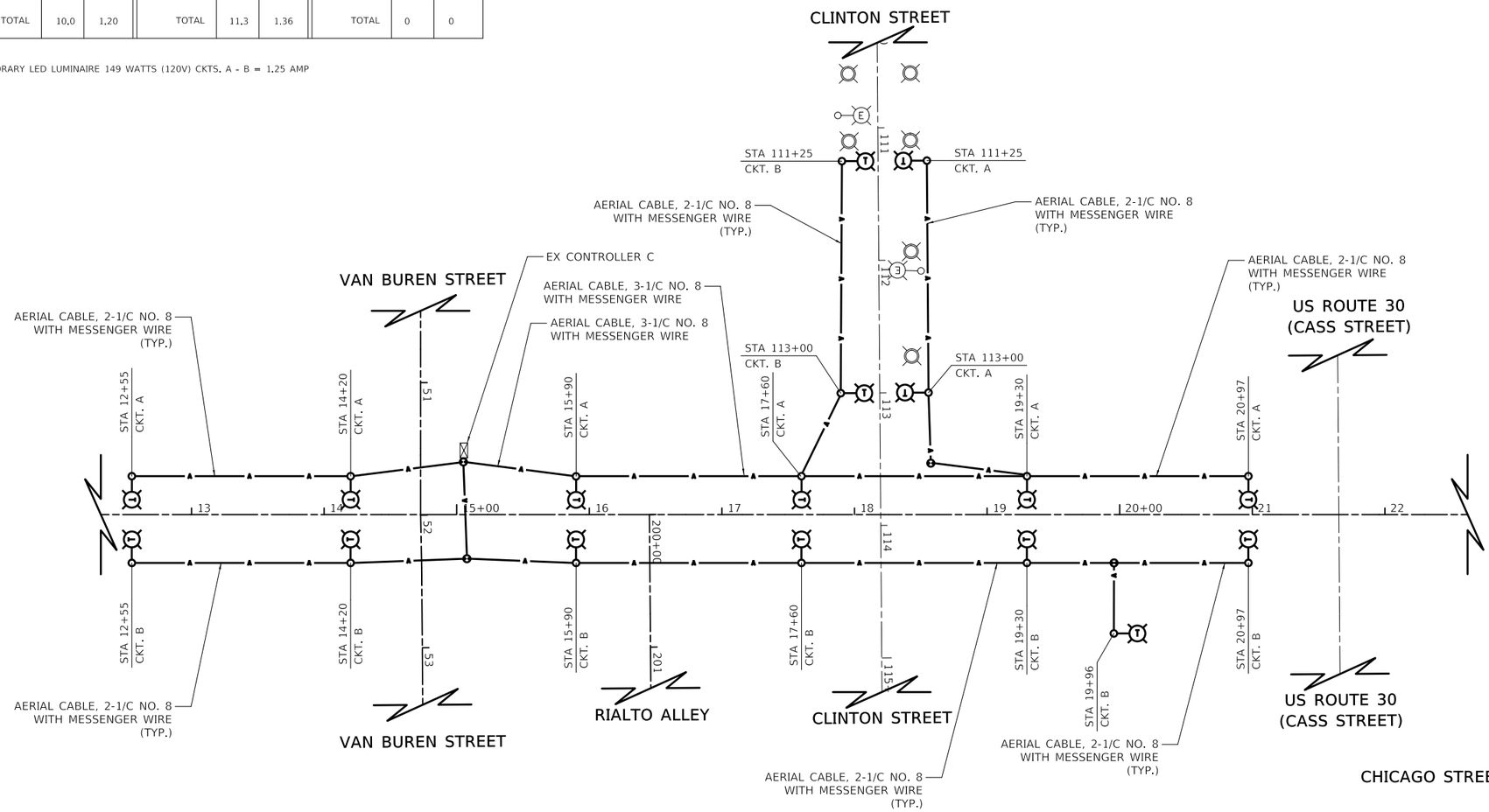
REMOVAL LIGHTING PLANS
CITY SQUARE

SCALE: 1" = 20' | SHEET 6 OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	163
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

EXISTING LIGHTING CONTROLLER C CIRCUIT LOAD TABLE											
RED PHASE WIRE				BLACK PHASE WIRE				BLUE PHASE WIRE			
CKT	QTY	TOTAL AMPS	KW LOAD @ 120V	CKT	QTY	TOTAL AMPS	KW LOAD @ 120V	CKT	QTY	TOTAL AMPS	KW LOAD @ 120V
A	8	10.0	1.20	B	9	11.3	1.36	---	---	---	---
TOTAL		10.0	1.20	TOTAL		11.3	1.36	TOTAL		0	0

TEMPORARY LED LUMINAIRE 149 WATTS (120V) CKTS. A - B = 1.25 AMP



CHICAGO STREET - TEMPORARY LIGHTING WIRING DIAGRAM

LEGEND

- TEMPORARY POLE (AS SPECIFIED IN PLANS)
- TEMPORARY LIGHTING POLE (AS SPECIFIED IN PLANS)
- AERIAL CABLES (AS SPECIFIED IN PLANS)
- EXISTING LIGHTING CONTROLLER
- EXISTING PEDESTRIAN LIGHTING UNIT TO REMAIN
- EXISTING ROADWAY LIGHTING UNIT TO REMAIN

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
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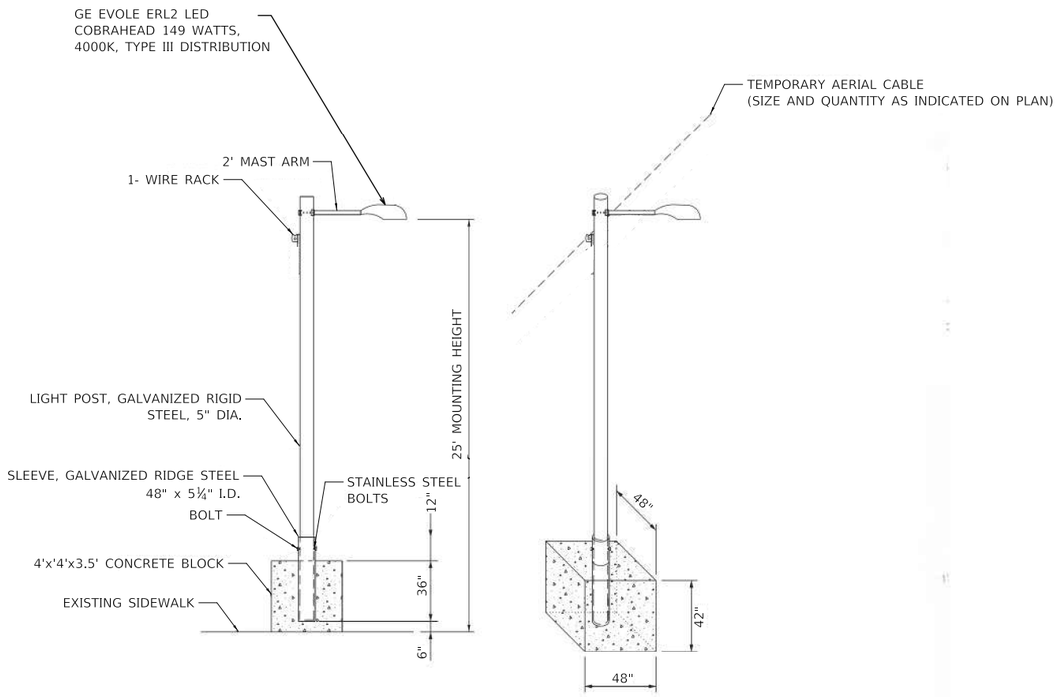
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

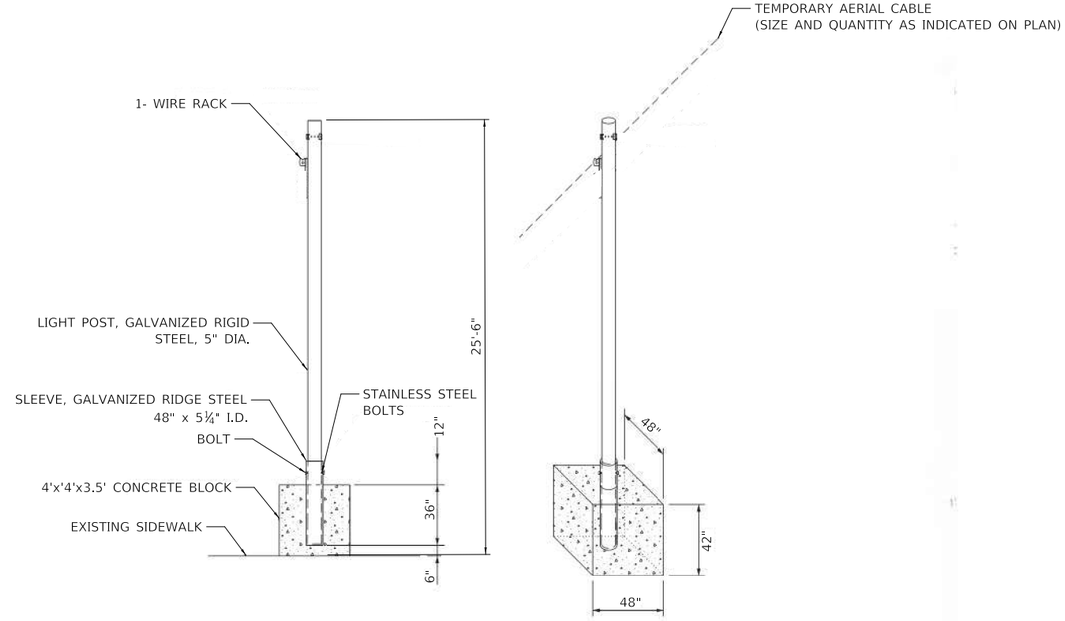
TEMPORARY WIRING DIAGRAM
CHICAGO STREET

SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	164
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



TEMPORARY LIGHT POLE DETAIL



TEMPORARY POLE DETAIL

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBL$
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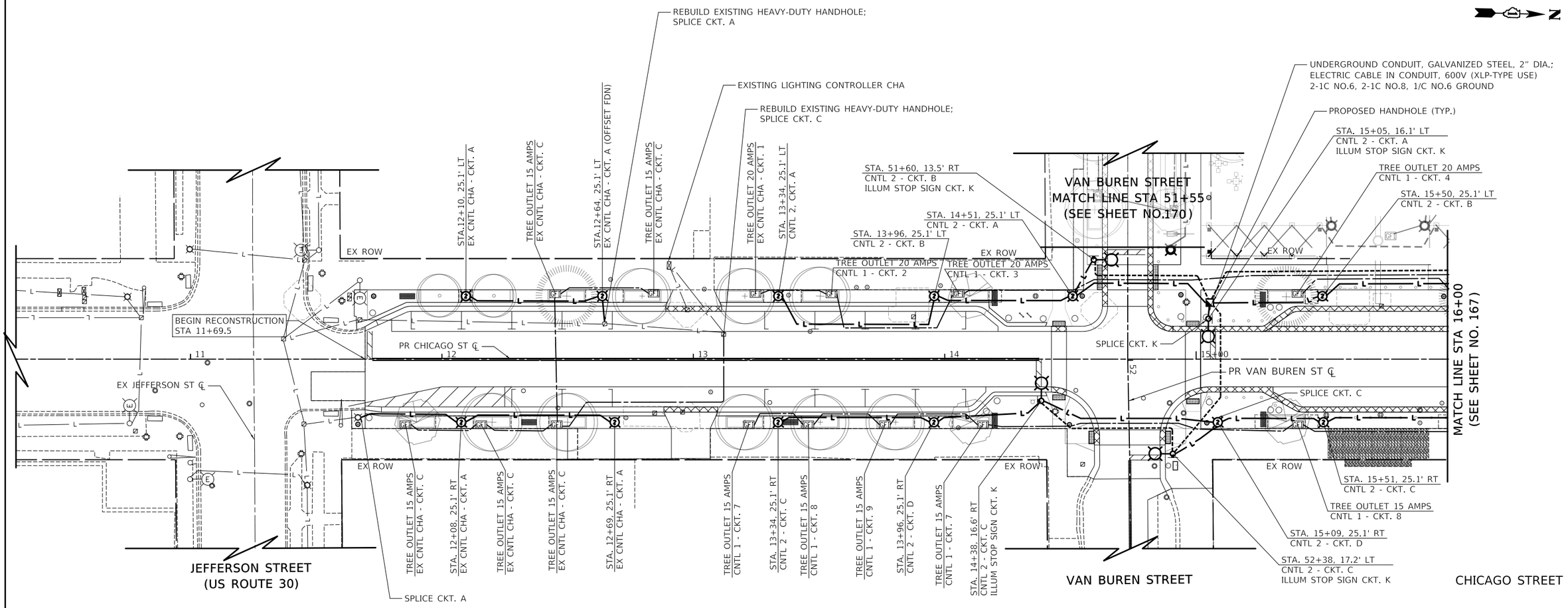
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	DRAWN - SJC	REVISED -
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

TEMPORARY LIGHT POLE DETAIL

SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	165
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
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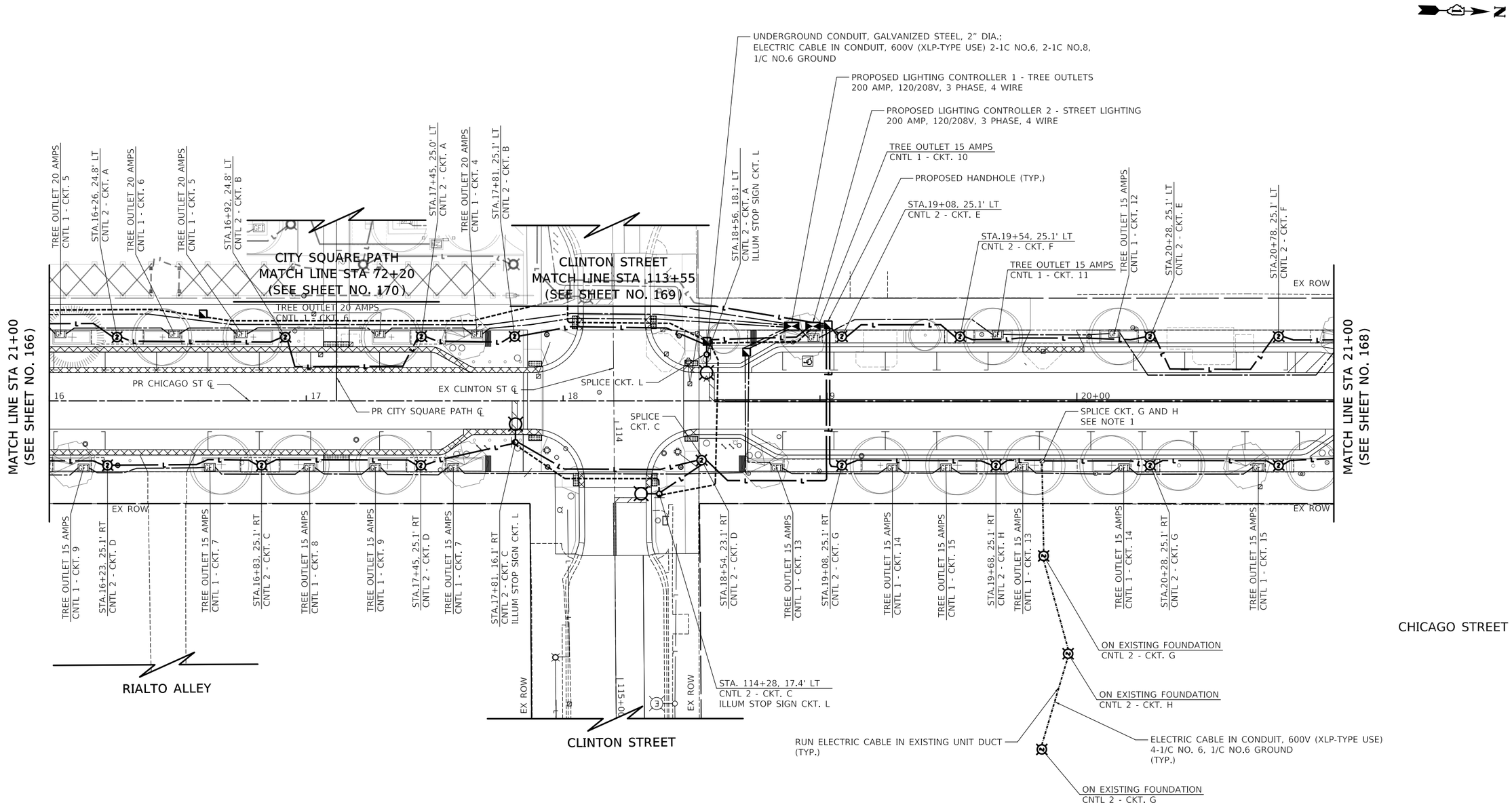
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	PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

PROPOSED LIGHTING PLANS
CHICAGO STREET

SCALE: 1" = 20' | SHEET 2 OF SHEETS | STA. 11+69.5 TO STA. 16+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	166
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBL$
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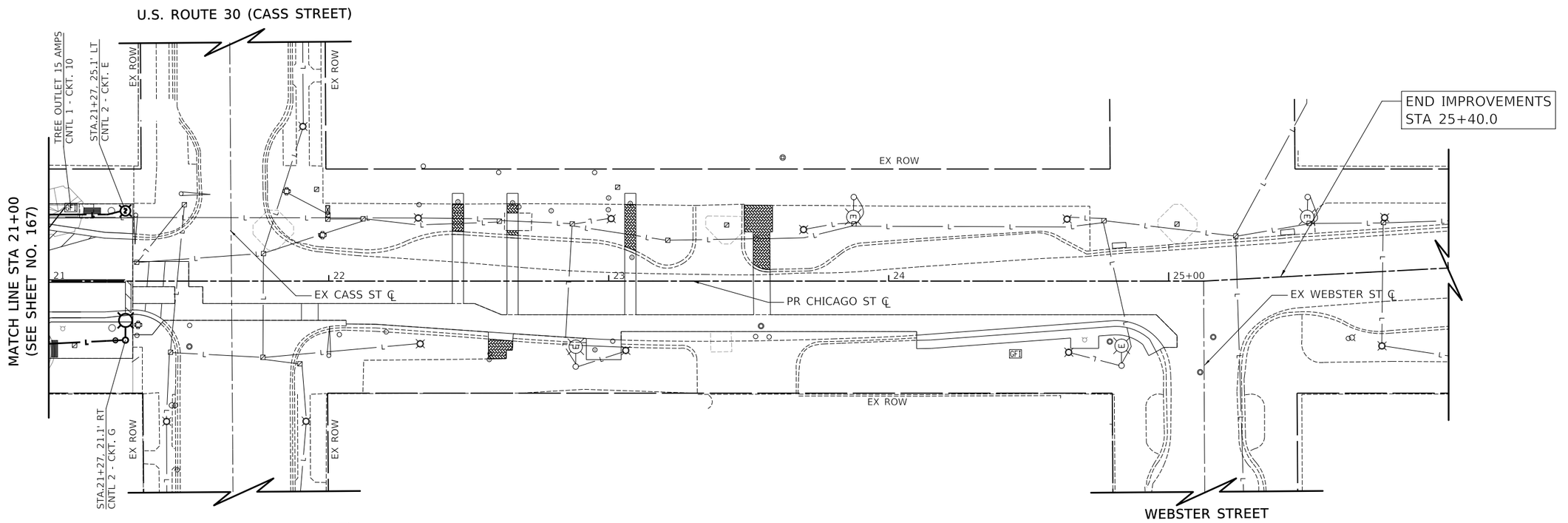
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

PROPOSED LIGHTING PLANS
CHICAGO STREET

SCALE: 1" = 20' | SHEET 3 OF SHEETS | STA. 16+00 TO STA. 21+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	167
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBL$
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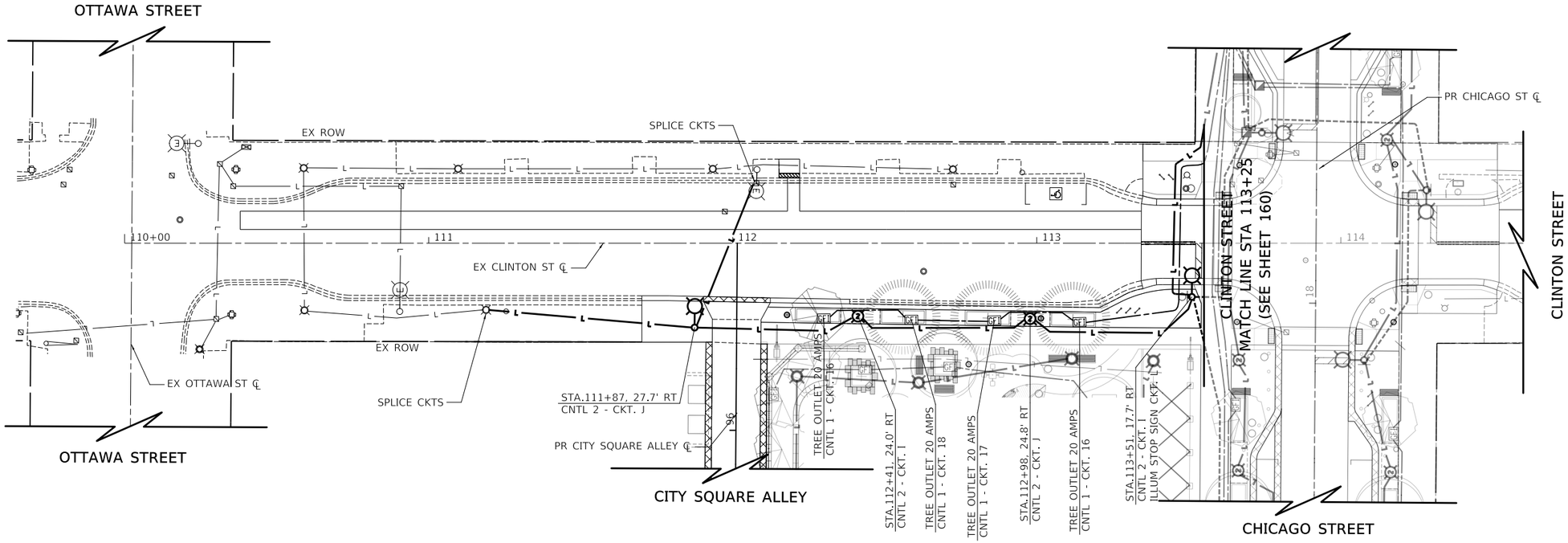
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

PROPOSED LIGHTING PLANS
CHICAGO STREET

SCALE: 1" = 20' | SHEET 4 OF SHEETS | STA. 21+00 | TO STA. 25+40.0

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	168
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



CLINTON STREET

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBL$
FILE NAME = ...\16-Lighting\3679-sht-ltgtl.dgn

CIVILTECH	USER NAME = nem	DESIGNED - SJC	REVISED -	**CITY OF JOLIET**	**PROPOSED LIGHTING PLANS** **CLINTON STREET**
		DRAWN - SJC	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DNM	REVISED -		
	PLOT DATE = 5/7/2024	DATE -	REVISED -		SCALE: 1" = 20' | SHEET 5 OF SHEETS | STA. 110+00 TO STA. 113+55

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	169
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

CITY SQUARE PATH

N

NOTE:

1. SEE PROPOSED WIRING DIAGRAM FOR FESTOON LIGHTING CIRCUITRY
2. FLEXIBLE CORD, 3 #10 AWG (TYPE SOOW) WILL BE INCLUDED IN THE COST OF PAVEMENT POCKET HANDHOLE.

PROPOSED LIGHTING CONTROLLER 3 - TREE OUTLETS
200 AMP, 120/208V, 3 PHASE, 4 WIRE

PROPOSED LIGHTING CONTROLLER 4 - STREET LIGHTS
200 AMP, 120/208V, 3 PHASE, 4 WIRE

UNDERGROUND CONDUIT, 2 1/2" DIA.;
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4-1/C NO. 3/0

VAN BUREN STREET

CONNECT PROPOSED TO EXISTING
UNDERGROUND CONDUIT, 2 1/2" DIA.

CLINTON STREET

ELECTRIC CABLE IN CONDUIT,
600V (XLP-TYPE USE) 4-1/C NO. 3/0

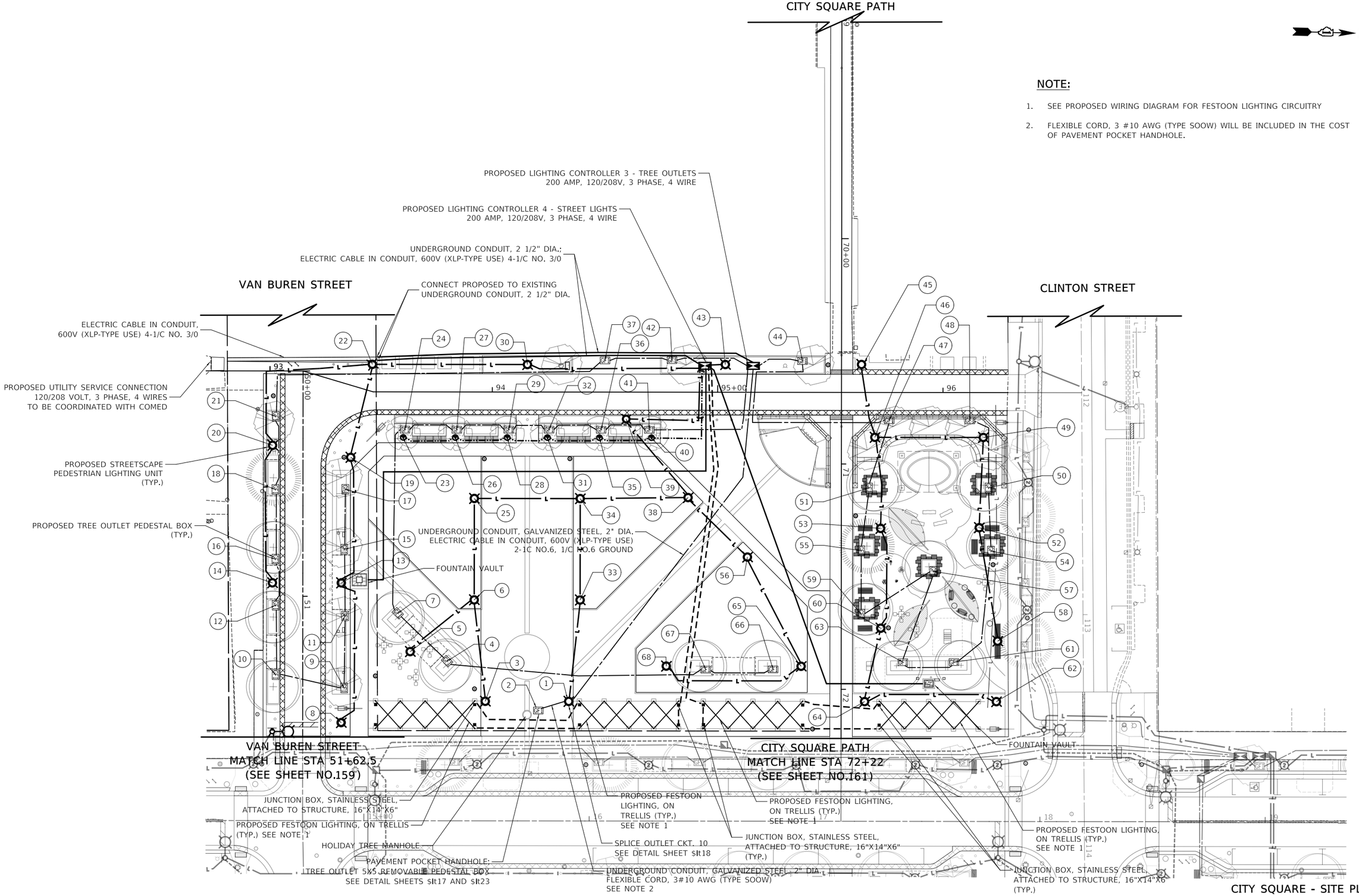
PROPOSED UTILITY SERVICE CONNECTION
120/208 VOLT, 3 PHASE, 4 WIRES
TO BE COORDINATED WITH COMED

PROPOSED STREETSCAPE
PEDESTRIAN LIGHTING UNIT
(TYP.)

PROPOSED TREE OUTLET PEDESTAL BOX
(TYP.)

UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE)
2-1C NO.6, 1/C NO.6 GROUND

FOUNTAIN VAULT



VAN BUREN STREET
MATCH LINE STA 51+62.5
(SEE SHEET NO.159)

CITY SQUARE PATH
MATCH LINE STA 72+22
(SEE SHEET NO.161)

FOUNTAIN VAULT

JUNCTION BOX, STAINLESS STEEL,
ATTACHED TO STRUCTURE, 16"X14"X6"

PROPOSED FESTOON LIGHTING, ON TRELLIS
(TYP.) SEE NOTE 1

HOLIDAY TREE MANHOLE

TREE OUTLET 5X5 REMOVABLE PEDESTAL BOX
SEE DETAIL SHEETS $lt17 AND $lt23

PROPOSED FESTOON
LIGHTING, ON
TRELLIS (TYP.)
SEE NOTE 1

SPLICE OUTLET CKT. 10
SEE DETAIL SHEET $lt18

PAVEMENT POCKET HANDHOLE

UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
FLEXIBLE CORD, 3#10 AWG (TYPE SOOW)
SEE NOTE 2

PROPOSED FESTOON LIGHTING,
ON TRELLIS (TYP.)
SEE NOTE 1

JUNCTION BOX, STAINLESS STEEL,
ATTACHED TO STRUCTURE, 16"X14"X6"
(TYP.)

PROPOSED FESTOON LIGHTING,
ON TRELLIS (TYP.)
SEE NOTE 1

JUNCTION BOX, STAINLESS STEEL,
ATTACHED TO STRUCTURE, 16"X14"X6"
(TYP.)

CITY SQUARE - SITE PLAN

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

PROPOSED LIGHTING PLANS
CITY SQUARE

SCALE: 1" = 20' | SHEET 6 OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	170
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

CITY SQUARE LIGHTING SCHEDULE						
ITEM	ITEM TYPE	STATION	OFFSET	CONTROLLER	CIRCUIT	OFFSET FDN
1	LIGHT POLE	51+46	118.1'LT	4	D	
2	TREE OUTLET 20 AMPS	NEAR HOLIDAY TREE MANHOLE	----	3	10	
3	LIGHT POLE	51+46	81.0'LT	4	D	
4	TREE OUTLET 15 AMPS	PLANTER	----	3	4	
5	LIGHT POLE	51+24	47.7'LT	4	C	
6	LIGHT POLE	51+01	76.1'LT	4	D	
7	TREE OUTLET 15 AMPS	PLANTER	----	3	5	
8	LIGHT POLE	51+56	17.1'LT	4	A	
9	TREE OUTLET 15 AMPS	PLANTER	----	3	3	
10	TREE OUTLET 15 AMPS	PLANTER	----	3	1	
11	TREE OUTLET 15 AMPS	PLANTER	----	3	1	
12	TREE OUTLET 15 AMPS	PLANTER	----	3	2	
13	LIGHT POLE	50+94	17.1'LT	4	B	
14	LIGHT POLE	50+94	13.5'RT	4	A	YES
15	TREE OUTLET 15 AMPS	PLANTER	----	3	2	
16	TREE OUTLET 15 AMPS	PLANTER	----	3	3	
17	TREE OUTLET 15 AMPS	PLANTER	----	3	3	
18	TREE OUTLET 15 AMPS	PLANTER	----	3	1	
19	LIGHT POLE	50+38	21.2'LT	4	A	
20	LIGHT POLE	50+33	13.5'RT	4	B	YES
21	TREE OUTLET 15 AMPS	PLANTER	----	3	2	
22	LIGHT POLE	93+43	11.6'LT	4	B	
23	TREE LIGHT	PLANTER	----	4	K	
24	TREE OUTLET 15 AMPS	PLANTER	----	3	6	
25	LIGHT POLE	93+92	46.9'RT	4	C	
26	TREE LIGHT	PLANTER	----	4	K	
27	TREE OUTLET 15 AMPS	PLANTER	----	3	4	
28	TREE LIGHT	PLANTER	----	4	K	
29	TREE OUTLET 15 AMPS	PLANTER	----	3	5	
30	LIGHT POLE	94+16	12.5'LT	4	A	
31	TREE LIGHT	PLANTER	----	4	K	
32	TREE OUTLET 15 AMPS	PLANTER	----	3	6	
33	LIGHT POLE	94+39	92.0'RT	4	C	
34	LIGHT POLE	94+39	47.0'RT	4	D	
35	TREE LIGHT	PLANTER	----	4	K	
36	TREE OUTLET 15 AMPS	PLANTER	----	3	4	
37	TREE OUTLET 15 AMPS	PLANTER	----	3	1	
38	LIGHT POLE	94+87	46.5'RT	4	C	
39	LIGHT POLE	94+59	11.7'RT	4	D	
40	TREE LIGHT	PLANTER	----	4	K	
41	TREE OUTLET 15 AMPS	PLANTER	----	3	5	
42	TREE OUTLET 15 AMPS	PLANTER	----	3	2	
43	LIGHT POLE	95+03	12.5'LT	4	E	YES
44	TREE OUTLET 15 AMPS	PLANTER	----	3	8	
45	LIGHT POLE	95+64	12.4'LT	4	F	
46	LIGHT POLE	95+70	19.8'RT	4	E	
47	TREE OUTLET 15 AMPS	PLANTER	----	3	7	
48	TREE OUTLET 15 AMPS	PLANTER	----	3	7	
49	LIGHT POLE	96+18	19.9'RT	4	F	
50	TREE OUTLET 15 AMPS	PLANTER	----	3	8	
51	TREE OUTLET 15 AMPS	PLANTER	----	3	9	
52	LIGHT POLE	71+28	61.2'LT	4	E	
53	LIGHT POLE	71+29	17.4'LT	4	F	
54	TREE OUTLET 15 AMPS	PLANTER	----	3	9	
55	TREE OUTLET 15 AMPS	PLANTER	----	3	8	
56	LIGHT POLE	71+41	41.7'RT	4	D	
57	TREE OUTLET 15 AMPS	PLANTER	----	3	9	
58	LIGHT POLE	71+79	69.4'LT	4	F	
59	TREE OUTLET 15 AMPS	PLANTER	----	3	7	
60	LIGHT POLE	71+73	17.6'LT	4	E	
61	TREE OUTLET 15 AMPS	PLANTER	----	3	7	
62	LIGHT POLE	72+05	68.9'LT	4	E	
63	TREE OUTLET 15 AMPS	PLANTER	----	3	8	
64	LIGHT POLE	72+05	10.4'LT	4	F	
65	LIGHT POLE	71+90	17.8'RT	4	C	
66	TREE OUTLET 15 AMPS	PLANTER	----	3	4	
67	TREE OUTLET 15 AMPS	PLANTER	----	3	5	
68	LIGHT POLE	71+90	77.6'RT	4	D	

NOTE:

1. SEE PROPOSED WIRING DIAGRAM FOR FESTOON LIGHTING CIRCUITRY

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PEN TABLE = $PENTBL$
FILE NAME = ...\3679-sht-lgt12A.dgn

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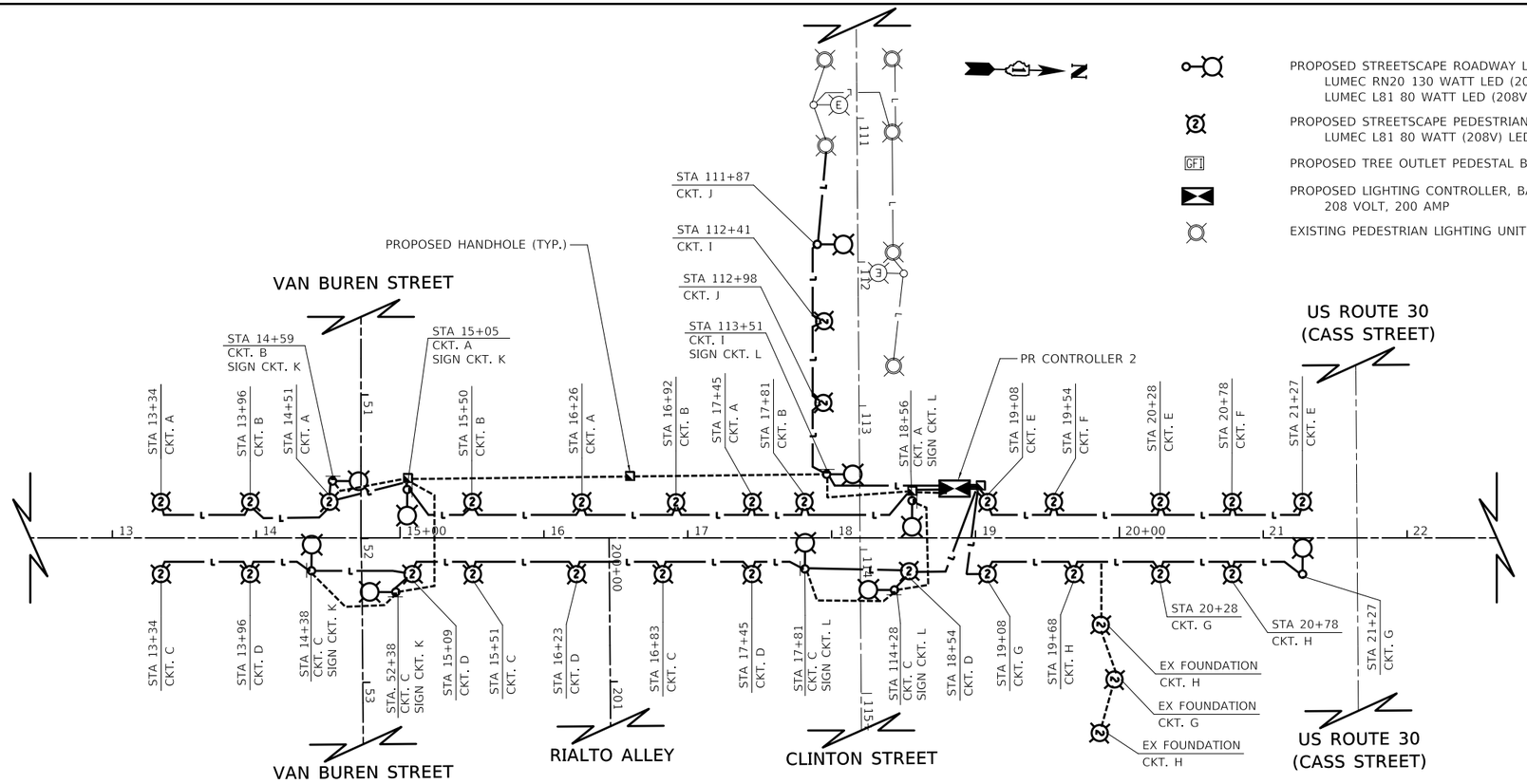
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	DRAWN - SJC	REVISED -
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

PROPOSED LIGHTING SCHEDULE
CITY SQUARE

SCALE: | SHEET 7 OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	171
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



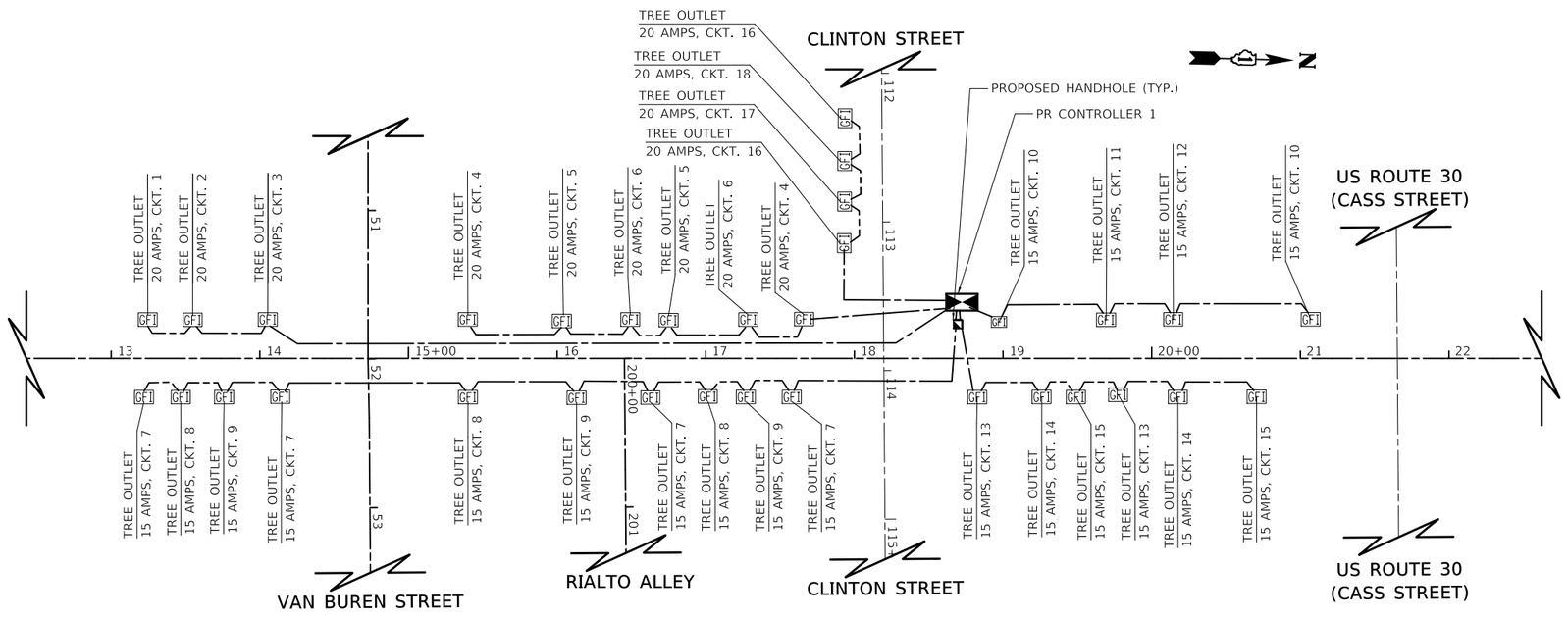
LEGEND

- PROPOSED STREETSCAPE ROADWAY LIGHTING UNIT
  LUMEC RN20 130 WATT LED (208V) AT 35 FT M.H.
  LUMEC L81 80 WATT LED (208V) AT 15 FT M.H.
- PROPOSED STREETSCAPE PEDESTRIAN LIGHTING UNIT
  LUMEC L81 80 WATT (208V) LED AT 15 FT M.H.
- PROPOSED TREE OUTLET PEDESTAL BOX
- PROPOSED LIGHTING CONTROLLER, BASE MOUNTED,
  208 VOLT, 200 AMP
- EXISTING PEDESTRIAN LIGHTING UNIT TO REMAIN
- PROPOSED STREET LIGHTING UNIT DUCT
  UNIT DUCT, 600V, 4-1C NO.6. 1/C NO.6 GROUND,
  (XLP-TYPE USE), 1 1/4" DIA. POLYEHTYLENE
- PROPOSED TREE OUTLET UNIT DUCT
  UNIT DUCT, 600V, 4-1C NO.4. 1/C NO.4 GROUND,
  (XLP-TYPE USE), 1 1/2" DIA. POLYEHTYLENE
- PROPOSED ILLUMINATED STOP SIGN UNIT DUCT
  UNIT DUCT, 600V, 3-1C NO.8. 1/C NO.8 GROUND,
  (XLP-TYPE USE), 1" DIA. POLYEHTYLENE
- EXISTING ROADWAY LIGHTING UNIT TO REMAIN
- PROPOSED HANDHOLE

PROPOSED LIGHTING CONTROLLER 2 CIRCUIT LOAD TABLE											
RED PHASE WIRE				BLACK PHASE WIRE				BLUE PHASE WIRE			
CKT	QTY	TOTAL AMPS	KW LOAD @ 120V	CKT	QTY	TOTAL AMPS	KW LOAD @ 120V	CKT	QTY	TOTAL AMPS	KW LOAD @ 120V
A	6	15.7	1.88	A	6	15.7	1.88	B	7	17.5	2.10
B	7	17.5	2.10	C	6	16.4	1.97	C	6	16.4	1.97
D	6	15.1	1.81	D	6	15.1	1.81	E	3	7.2	0.86
E	3	7.2	0.86	F	2	4.8	0.58	F	2	4.8	0.58
G	4	10.3	1.24	G	4	10.3	1.24	H	4	9.6	1.15
H	4	9.6	1.15	I	6	15.7	1.88	I	6	15.7	1.88
J	6	15.7	1.88	J	6	15.7	1.88	K	4	0.2	0.03
L	4	0.2	0.03								
TOTAL		91.3	10.95	TOTAL		93.7	11.24	TOTAL		71.4	8.57

ROADWAY LED LUMINAIRE 135 WATTS (208V) CKTS. A - J = 0.65 AMP
ROADWAY PEDESTRIAN LED LUMINIARE 80 WATTS (208V) CKTS. A - J = 0.40 AMPS
LIGHT POLE OUTLET (120V) CKTS. A - J = 2 AMPS

CHICAGO STREET - PROPOSED LIGHTING WIRING DIAGRAM



PROPOSED LIGHTING CONTROLLER 1 CIRCUIT LOAD TABLE											
RED PHASE WIRE				BLACK PHASE WIRE				BLUE PHASE WIRE			
CKT	QTY	TOTAL AMPS	KW LOAD @ 120V	CKT	QTY	TOTAL AMPS	KW LOAD @ 120V	CKT	QTY	TOTAL AMPS	KW LOAD @ 120V
1	1	20.0	2.4	2	1	20	2.4	3	1	20	2.4
4	2	40.0	4.8	5	2	40	4.8	6	2	40	4.8
7	4	40.0	4.8	8	3	30	3.6	9	3	30	3.6
10	2	20.0	2.4	11	1	10	1.2	12	1	10	1.2
13	2	20.0	2.4	14	2	20	2.4	15	2	20	2.4
17	1	20.0	2.4	16	2	40	4.8	18	1	20	2.4
TOTAL		160.0	19.2	TOTAL		160.0	19.2	TOTAL		140.0	16.8

TREE OUTLET (120V) CKTS. 1 - 6 AND 16 - 18 = 20 AMPS
TREE OUTLET (120V) CKTS. 7 - 15 = 15 AMPS

CHICAGO STREET - PROPOSED TREE OUTLET WIRING DIAGRAM

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
FILE NAME = ...\16-Lighting\3679-ant-lgt13.dgn

CIVILTECH

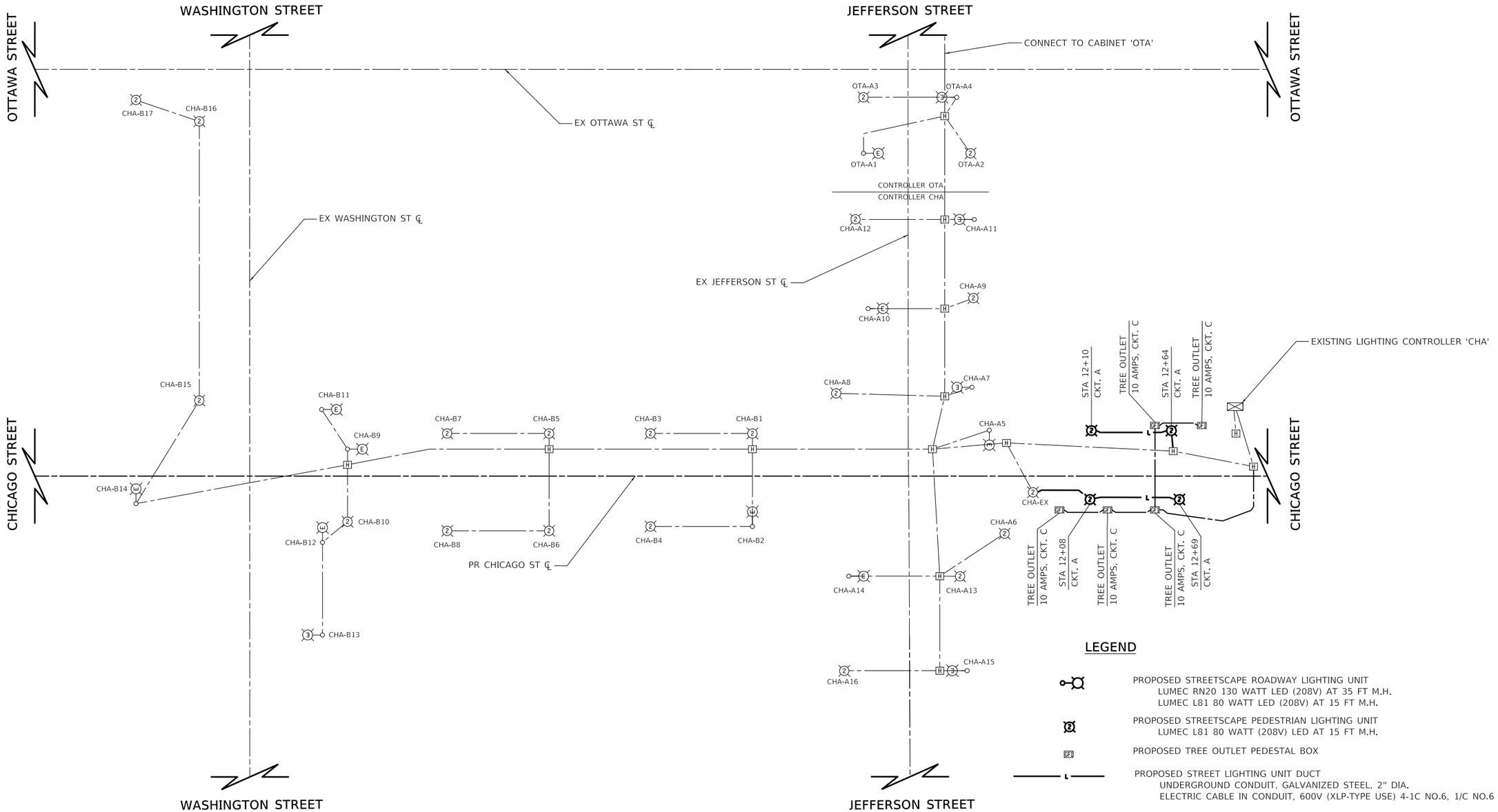
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	DRAWN - SJC	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - DNM	REVISED -	
PLOT DATE = 5/7/2024	DATE -	REVISED -	

CITY OF JOLIET

PROPOSED WIRING DIAGRAM
CHICAGO STREET

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	172
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- PROPOSED STREETSCAPE ROADWAY LIGHTING UNIT
  LUMEC RN20 130 WATT LED (208V) AT 35 FT M.H.
  LUMEC L81 80 WATT LED (208V) AT 15 FT M.H.
- PROPOSED STREETSCAPE PEDESTRIAN LIGHTING UNIT
  LUMEC L81 80 WATT (208V) LED AT 15 FT M.H.
- PROPOSED TREE OUTLET PEDESTAL BOX
- PROPOSED STREET LIGHTING UNIT DUCT
  UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
  ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4-1C NO.6, 1/C NO.6 GROUND
- PROPOSED TREE OUTLET UNIT DUCT
  UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
  ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4-1C NO.4, 1/C NO.4 GROUND
- EXISTING ROADWAY LIGHTING UNIT TO REMAIN
- EXISTING PEDESTRIAN LIGHTING UNIT TO REMAIN
- EXISTING HANDHOLE
- EXISTING HEAVY DUTY HANDHOLE

CHICAGO STREET - EXISTING LIGHTING CONTROLLER CHA WIRING DIAGRAM

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBL$
FILE NAME = ...\16-Lighting\3679-sht-lgt14.dgn

CIVILTECH

USER NAME = nem	DESIGNED - SJC	REVISED -
	DRAWN - SJC	REVISED -
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

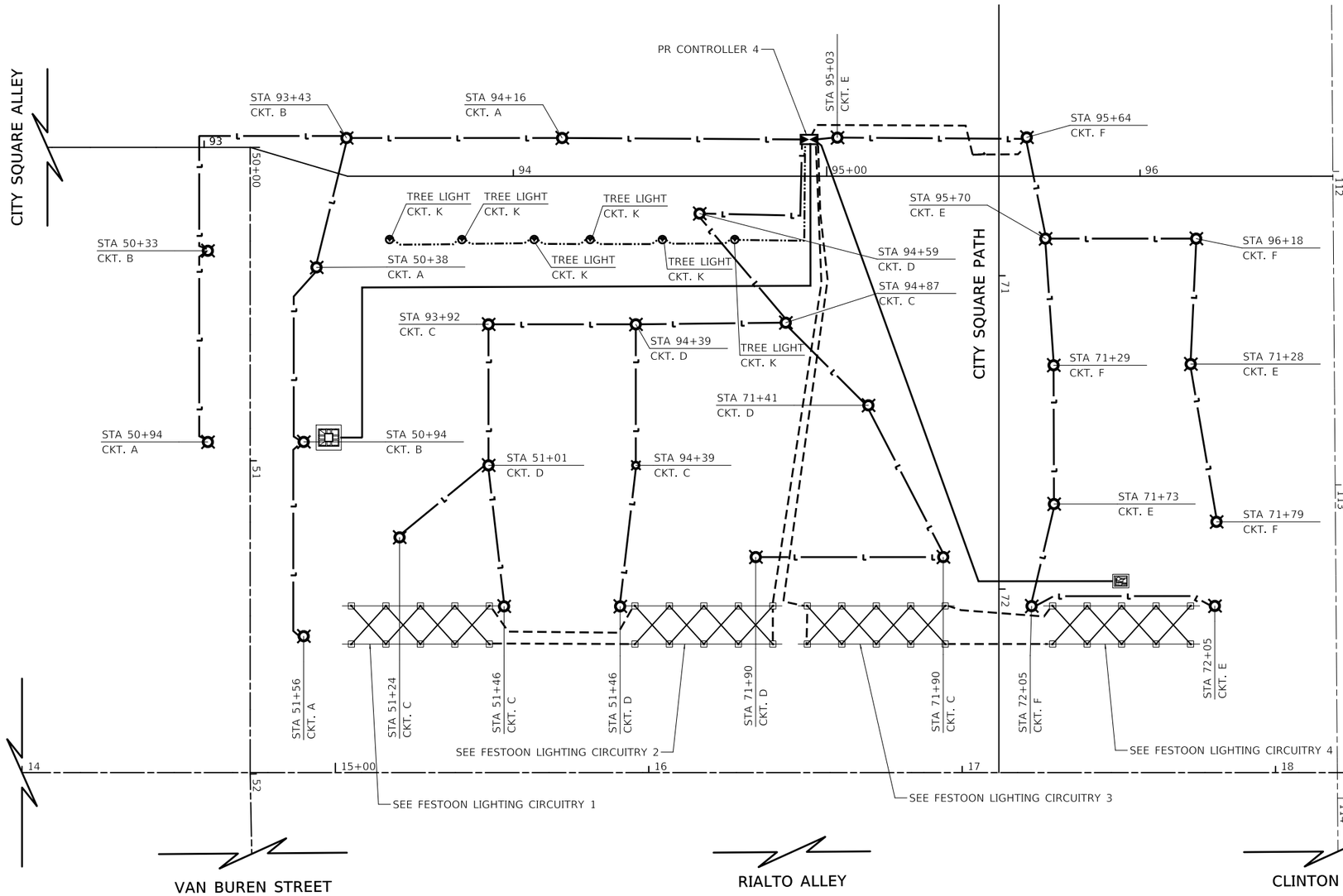
EXISTING WIRING DIAGRAM
CHICAGO STREET

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	173
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

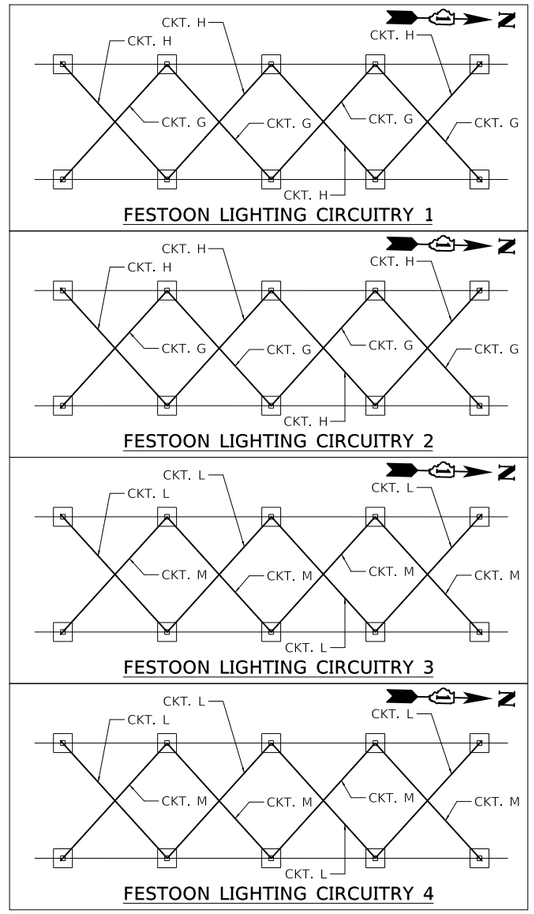
LEGEND

- PROPOSED STREETSCAPE PEDESTRIAN LIGHTING UNIT
  LUMEC L81 80 WATT (208V) LED TYPE 5 DISTRIBUTION AT 15 FT M.H.
- PROPOSED LIGHTING CONTROLLER, BASE MOUNTED, 208 VOLT, 200 AMP
- PROPOSED TREE LIGHT
- PROPOSED STREET LIGHTING UNIT DUCT
  UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
  ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4-1C NO.6, 1/C NO.6 GROUND
- PROPOSED TREE LIGHT UNIT DUCT
  UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- PROPOSED FESTOON LIGHTING UNIT DUCT
  UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- PROPOSED FOUNTAIN LIGHT
  UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.
  ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4-1C NO.8, 1/C NO.8 GROUND



PROPOSED LIGHTING CONTROLLER 4 CIRCUIT LOAD TABLE											
RED PHASE WIRE				BLACK PHASE WIRE				BLUE PHASE WIRE			
CKT	QTY	TOTAL AMPS	KW LOAD @ 120V	CKT	QTY	TOTAL AMPS	KW LOAD @ 120V	CKT	QTY	TOTAL AMPS	KW LOAD @ 120V
A	4	9.6	1.15	A	4	9.6	1.15	B	3	7.2	0.86
B	3	7.2	0.86	C	6	14.4	1.73	C	6	14.4	1.73
D	6	14.4	1.73	D	6	14.4	1.73	E	5	12.0	1.44
E	5	12.0	1.44	F	5	12.0	1.44	F	5	12.0	1.44
G	44	0.9	0.11	H	44	0.9	0.11	I	66	1.3	0.16
J	66	1.3	0.16	K	6	1.0	0.12	L	44	0.9	0.11
M	44	0.9	0.11	N	2	1.5	0.18	O	2	0.6	0.07
P	5	1.5	0.18	Q	8	7.1	0.85				
	TOTAL	47.8	5.74		TOTAL	60.9	7.31		TOTAL	48.4	5.81

PEDESTRIAN LED LUMINIARE 80 WATTS (208V) CKTS. A - F = 0.40 AMPS
LIGHT POLE OUTLET (120V) CKTS. A - F = 2 AMPS
FESTOON LIGHTING 1.8 WATTS (120V) CKTS. G - J AND L - M = 0.02 AMPS
TREE LIGHT 19 WATTS (120V) CKT. K = 0.16 AMPS
FOUNTAIN LINEAR LIGHT 90 WATTS (120V) CKT. N = 0.75 AMPS
FOUNTAIN LINEAR LIGHT 36 WATTS (120V) CKT. O = 0.30 AMPS
FOUNTAIN RING LIGHT 36 WATTS (120V) CKT. P = 0.30 AMPS
TIER SEAT LIGHT 7 WATTS/FT (120V) CKT. Q = 0.06 AMPS/FT AT 15 FT EACH = 0.88 AMP



CITY SQUARE - PROPOSED LIGHTING WIRING DIAGRAM

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
FILE NAME = ...\16-Lighting\3679-ant-lgt15.dgn

CIVILTECH	USER NAME = nem	DESIGNED - SJC	REVISED -
		DRAWN - SJC	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DNM	REVISED -
	PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

PROPOSED LIGHTING WIRING DIAGRAM
CITY SQUARE

SCALE: NTS | SHEET 1 OF 2 SHEETS | STA. | TO STA.

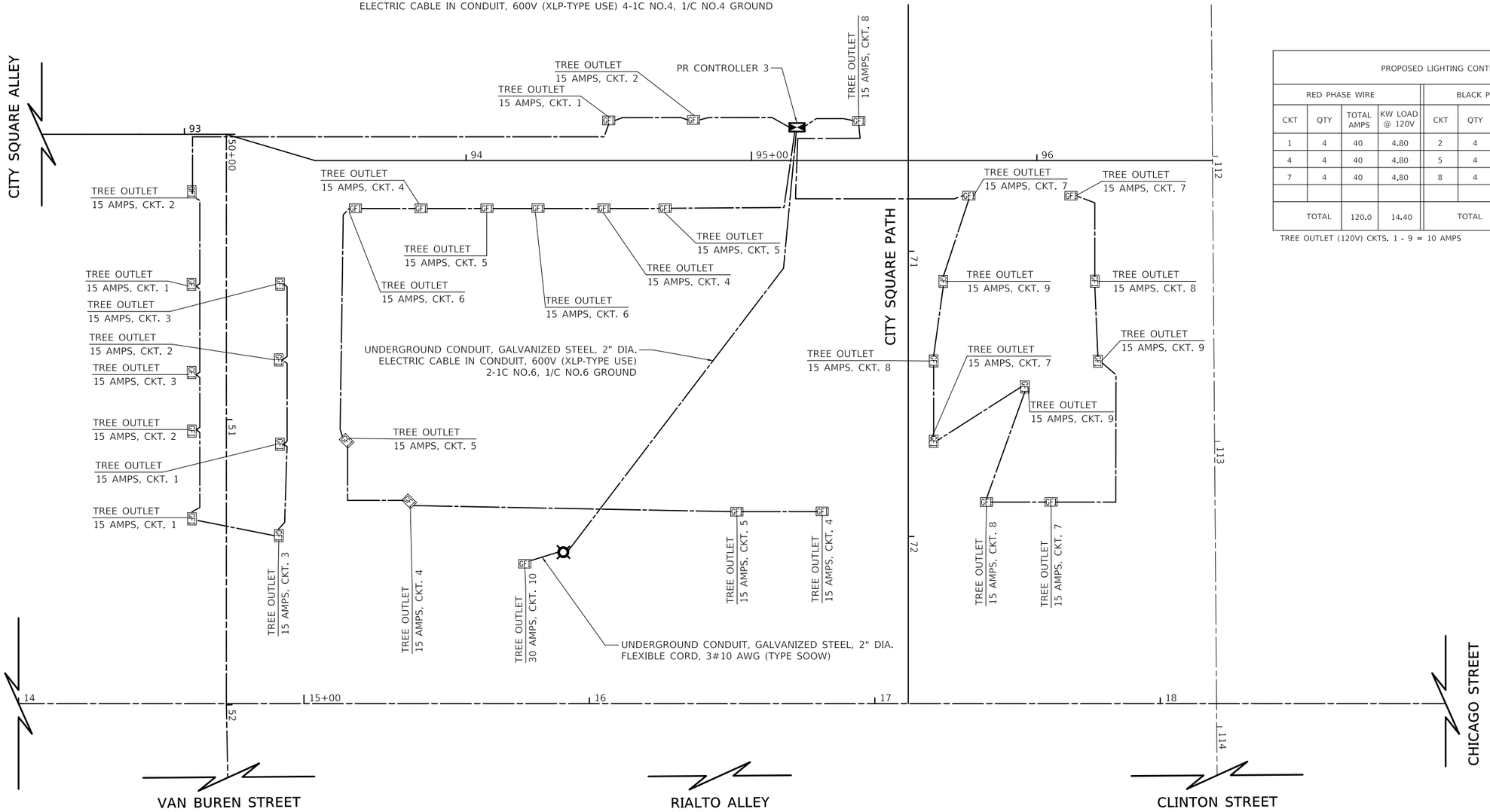
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	174
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

LEGEND

GFI — PROPOSED TREE OUTLET PEDESTAL BOX

PROPOSED LIGHTING CONTROLLER, BASE MOUNTED, 208 VOLT, 200 AMP

PROPOSED TREE OUTLET UNIT DUCT
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 4-1C NO.4, 1/C NO.4 GROUND



PROPOSED LIGHTING CONTROLLER 3 CIRCUIT LOAD TABLE

RED PHASE WIRE				BLACK PHASE WIRE				BLUE PHASE WIRE			
CKT	QTY	TOTAL AMPS	KW LOAD @ 120V	CKT	QTY	TOTAL AMPS	KW LOAD @ 120V	CKT	QTY	TOTAL AMPS	KW LOAD @ 120V
1	4	40	4.80	2	4	40	4.80	3	3	30	3.60
4	4	40	4.80	5	4	40	4.80	6	2	20	2.40
7	4	40	4.80	8	4	40	4.80	9	3	30	3.60
								10	1	10	1.20
	TOTAL	120.0	14.40		TOTAL	120.0	14.40		TOTAL	90.0	10.80

TREE OUTLET (120V) CKTS. 1 - 9 = 10 AMPS

CITY SQUARE - PROPOSED TREE OUTLET WIRING DIAGRAM

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
FILE NAME = ...\3679-ahr-tgt15R.dgn

CIVILTECH

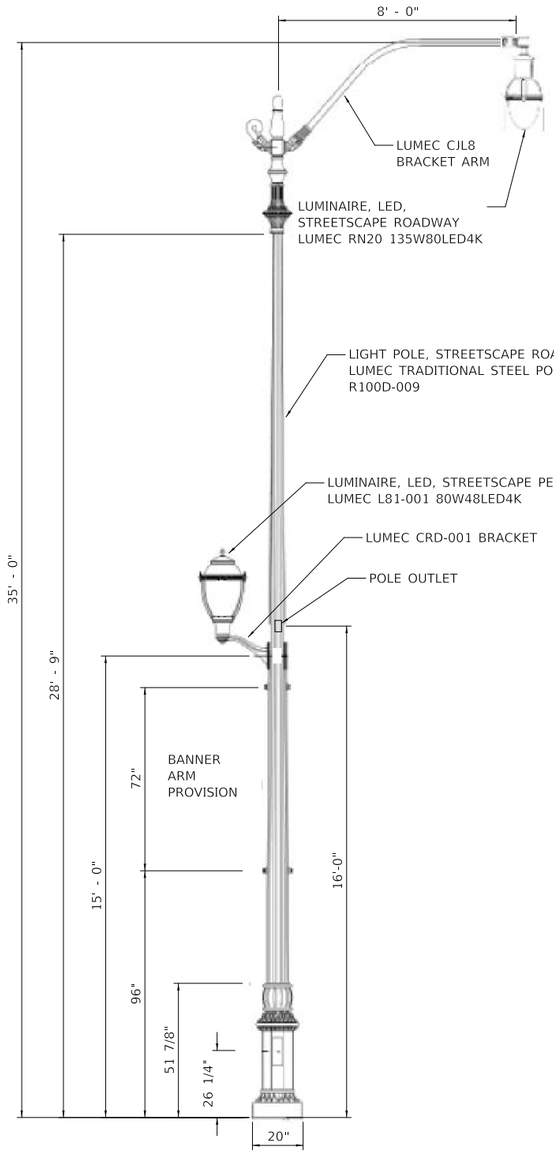
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	DRAWN - SJC	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

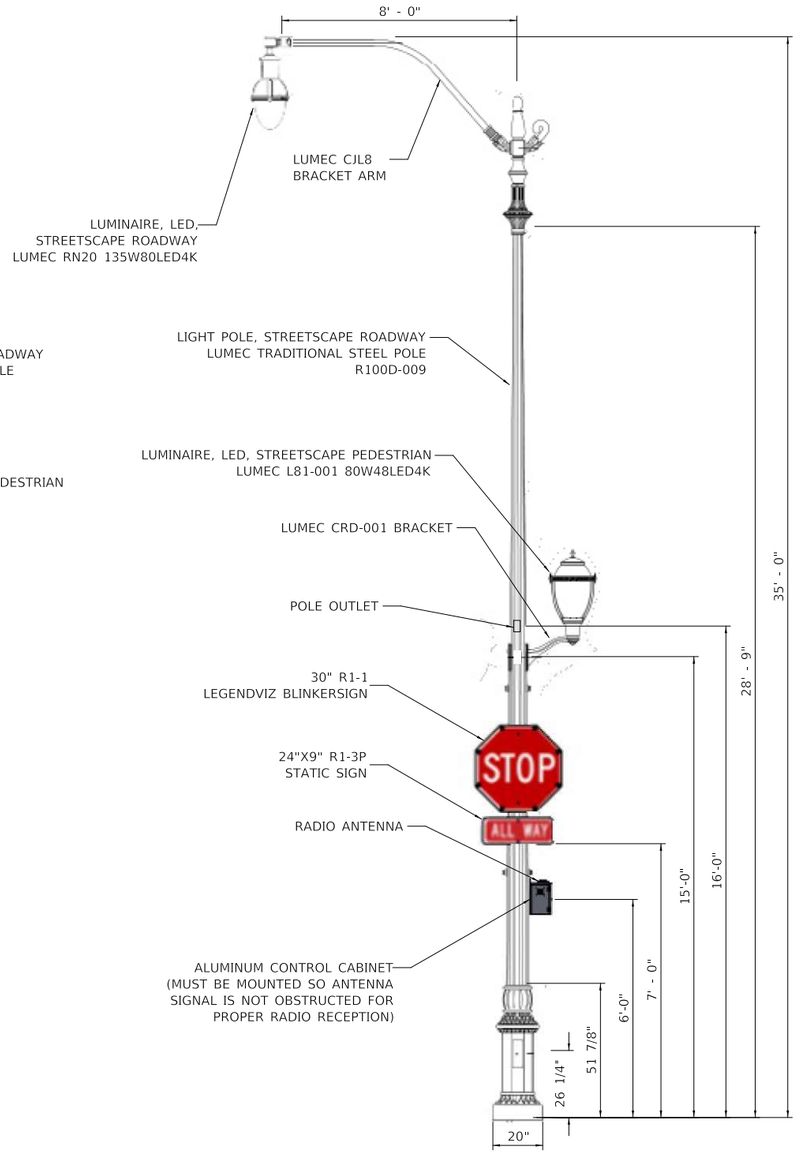
PROPOSED TREE OUTLET WIRING DIAGRAM
CITY SQUARE

SCALE: NTS | SHEET 2 OF 2 SHEETS | STA. | TO STA.

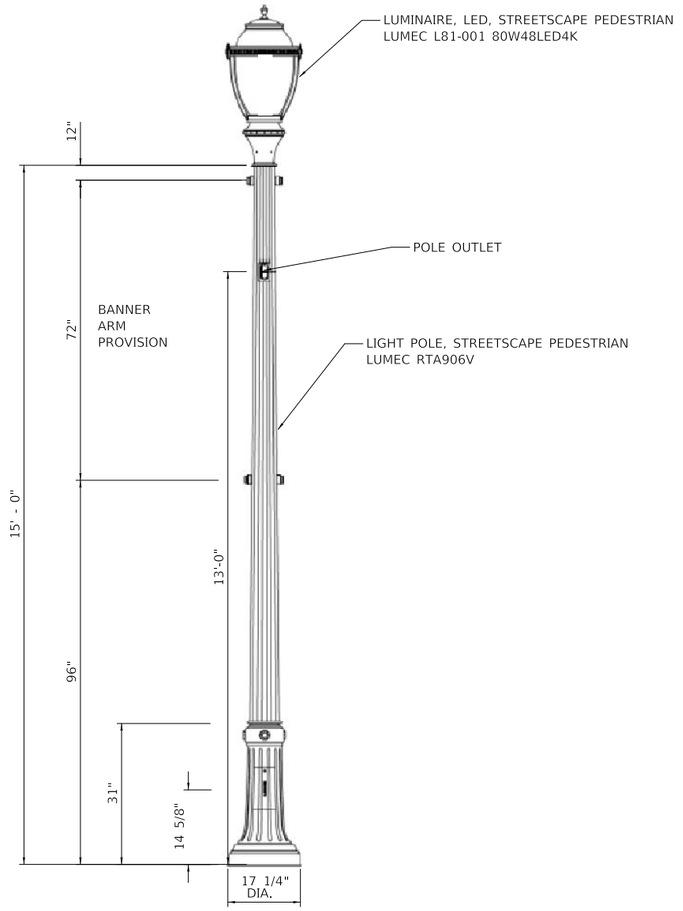
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	175
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



STREETSCAPE ROADWAY LIGHTING UNIT



STREETSCAPE ROADWAY LIGHTING UNIT
WITH ILLUMINATED STOP SIGN COMPLETE



STREETSCAPE PEDESTRIAN LIGHTING UNIT

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
FILE NAME = ...\16-Lighting\3679-ahc-lgt16.dgn

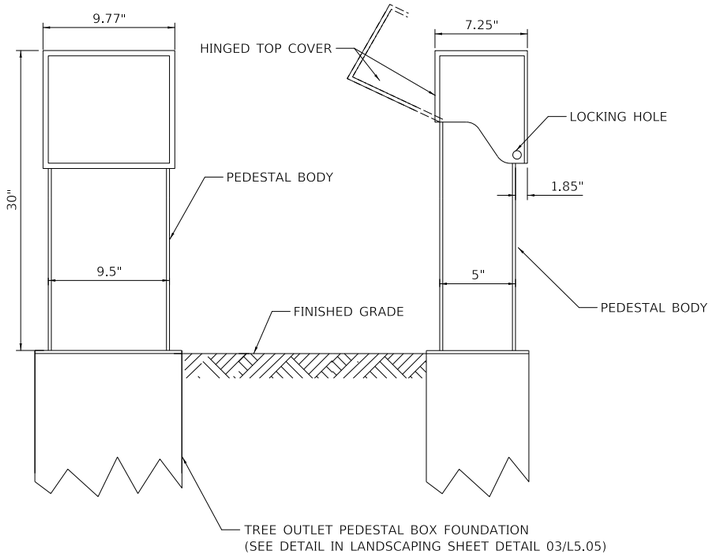
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		DRAWN - SJC	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - DNM	REVISED -
	PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

LIGHT POLE DETAIL

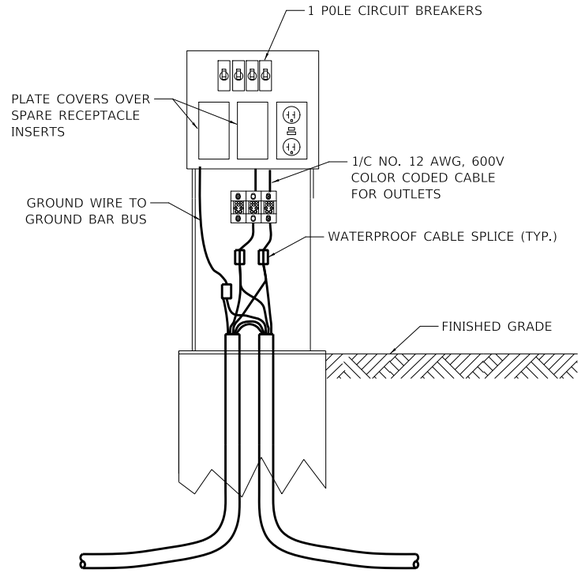
SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	176
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	



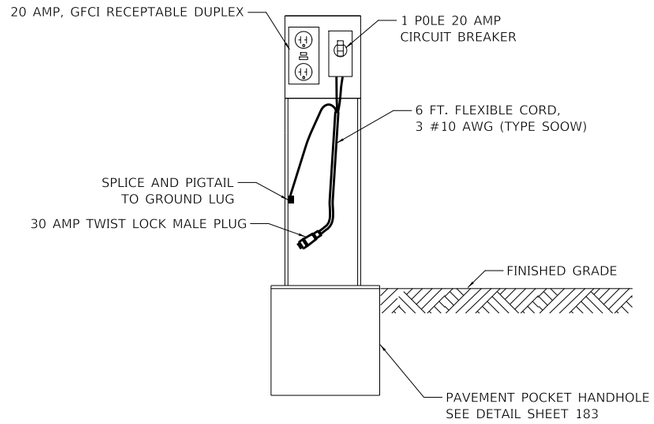
TREE OUTLET 5X10 PEDESTAL BOX

NOT TO SCALE



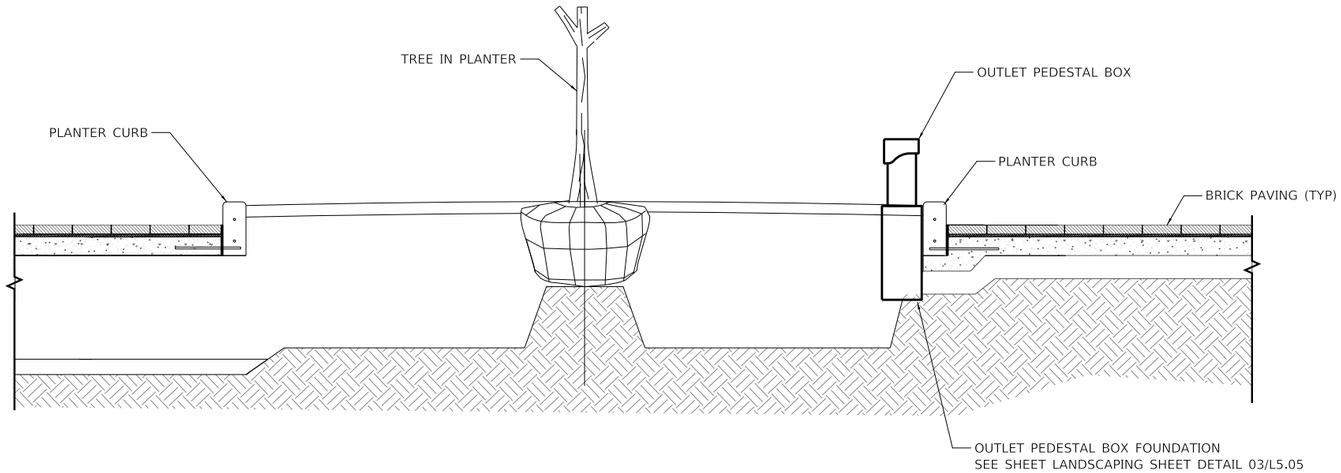
TREE OUTLET 5X10 PEDESTAL WIRING

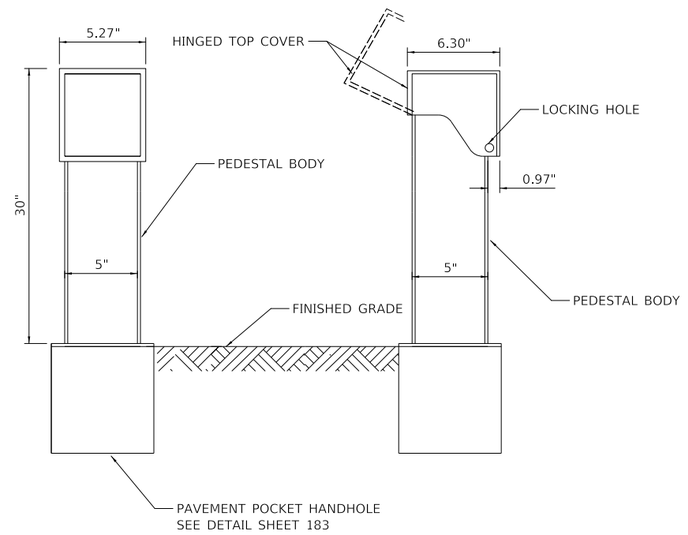
NOT TO SCALE



TREE OUTLET 5X5 REMOVABLE PEDESTAL BOX, WIRING

NOT TO SCALE





TREE OUTLET 5X5 REMOVABLE PEDESTAL BOX, 20 AMPS

NOT TO SCALE

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBL$
FILE NAME = ...\16-Lighting\3879-sht-lgt17.dgn

CIVILTECH

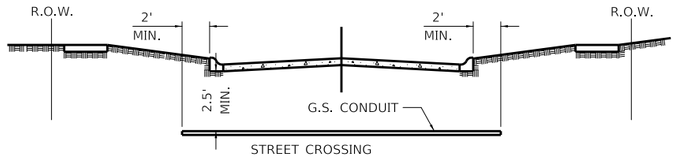
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	DRAWN - SJC	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

LIGHTING DETAIL

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	177
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

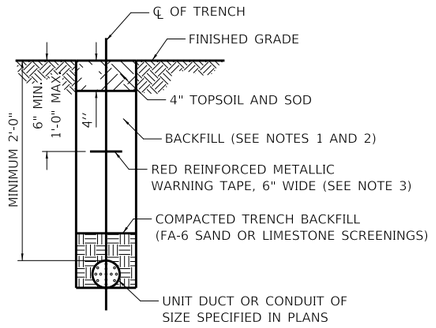


① PAVEMENT INCLUDES ROADS, DRIVEWAYS, SIDEWALKS, AND BIKE PATHS
② CONDUIT SHALL BE HEAVY WALL RIGID G.S. CONDUIT, MINIMUM 2" DIAMETER
③ CONDUIT SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB OR EDGE OF PAVEMENT
④ CONDUIT SHALL BE A MINIMUM OF 2 FT. BELOW BOTTOM OF CURB.

ELECTRICAL CONDUIT UNDER PAVEMENT

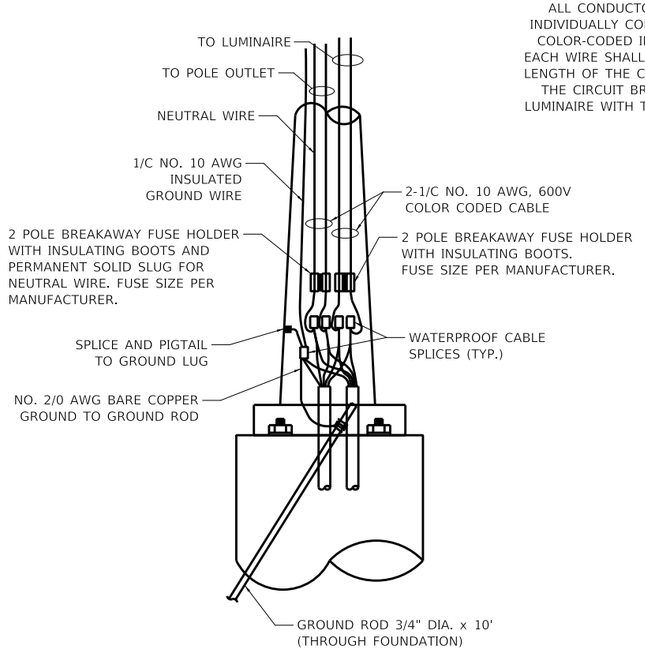
NOTES:

1. IN GRASS COVERED AREAS, THE BACKFILL MAY BE COMPACTED EARTH.
2. TRENCHES WITHIN 2' OF PROPOSED OR EXISTING STREETS, DRIVEWAYS, OR SIDEWALKS WILL BE BACKFILLED WITH COMPACTED FA-6 SAND OR LIMESTONE SCREENINGS.
3. WARNING TAPE WILL BE RED WITH BLACK LETTERING TO READ "CAUTION - ELECTRIC LINE BURIED BELOW".
4. ALL GRASS COVERED AREAS DISTURBED DURING CONSTRUCTION WILL BE RESTORED WITH 4" OF TOPSOIL AND SOD.

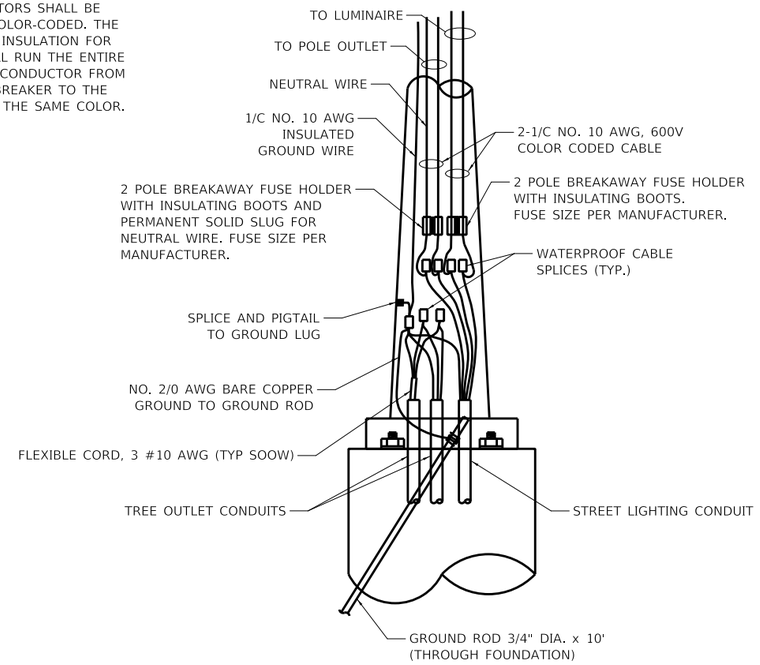


TYPICAL TRENCH CROSS SECTION

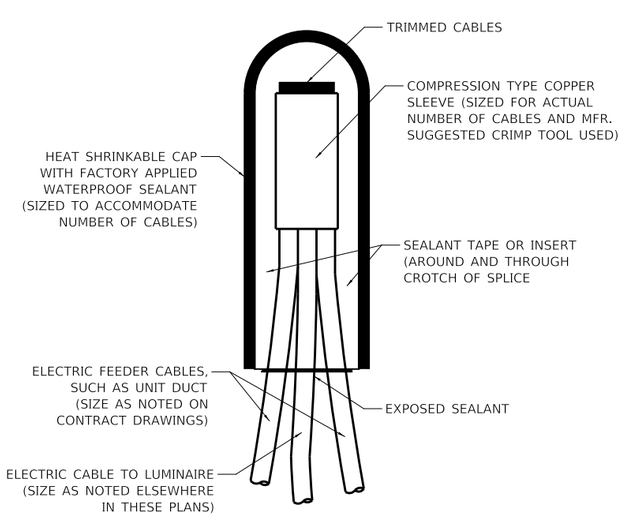
ALL CONDUCTORS SHALL BE INDIVIDUALLY COLOR-CODED. THE COLOR-CODED INSULATION FOR EACH WIRE SHALL RUN THE ENTIRE LENGTH OF THE CONDUCTOR FROM THE CIRCUIT BREAKER TO THE LUMINAIRE WITH THE SAME COLOR.



TYPICAL POLE HANDHOLE WIRING DIAGRAM



POLE HANDHOLE WIRING DIAGRAM
LIGHT POLE 1 AT STA. 51+46, 118.1' LT



NOTE: NUMBER OF CABLES IN SPLICE MAY VARY

SPLICING ELECTRIC CABLES BASIC MATERIALS AND METHODS

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBL$
FILE NAME = ...\16-Lighting\3679-ant-lgt18.dgn

CIVILTECH

USER NAME = nem	DESIGNED - SJC	REVISED -
	DRAWN - SJC	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

LIGHTING DETAIL

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	178
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

NOTES FOR CONTROL CABINET:

THE CABINET SHALL BE FABRICATED FROM 0.125" THICK ALUMINUM ALLOY SHEET AND SHALL BE REINFORCED WITH ALUMINUM ANGLES. THE CABINET DOOR SHALL BE NEMA TYPE 3 CONSTRUCTION WITH NEOPRENE GASKET. THE DOOR SHALL HAVE STAINLESS STEEL HINGES AND THREE POINT LOCKING SYSTEM.

CONTROL WIRING SHALL BE NO. 12 AWG., 600V, TYPE 'SIS' GRAY SWITCHBOARD WIRE, STRANDED COPPER.

THE HEADS OF CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUS CONNECTION AND GREEN FOR GROUND BUS CONNECTORS.

PROVIDE SEALING GROMMETS FOR ALL WIRING EXTENDING FROM DEVICE ENCLOSURES.

ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL 'ENCLOSED INDUSTRIAL CONTROL PANEL'.

PROVIDE A HOLDER AND WATERPROOF POUCH ON THE INNER SIDE OF THE CONTROLLER DOOR. FURNISH THE APPROVED COPY OF 'CONTROL CABINET WIRING DIAGRAM'.

A CONCRETE PAD 36" X 60" X 4" MINIMUM SIZE SHALL BE PLACED IN FRONT OF CONTROLLER CABINET DOOR WHEN THERE IS NO SIDEWALK. THE PAD SHALL BE POURED SEPARATELY FROM THE FOUNDATION AND INCLUDE A PREFORMED EXPANSION JOINT FILLER.
THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.

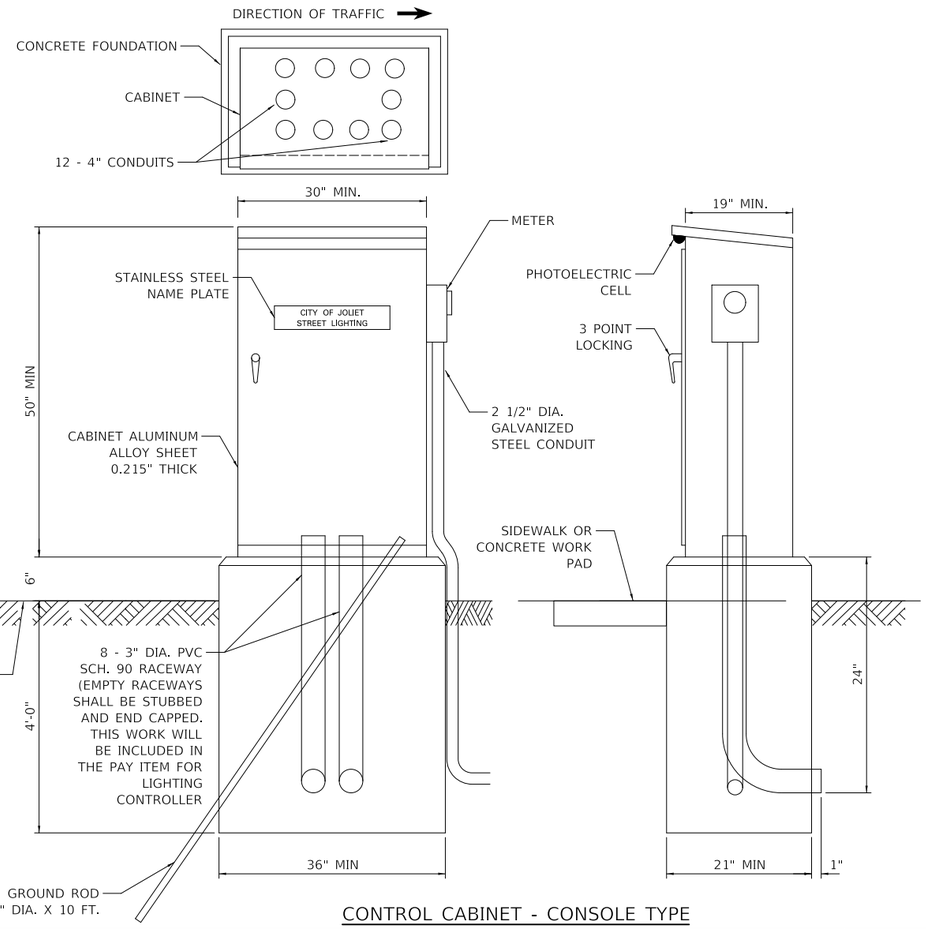
CONTROLLER CABINET PAINTING NOTE:
THE CABINET SHALL BE PRIMED AND PAINTED BLACK. A SAMPLE SHALL BE SUBMITTED WITH THE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. THE COST OF PAINTING THE CABINET SHALL BE INCLUDED IN THE COSTS OF MATERIAL AND INSTALLATION OF STREET LIGHTING CONTROLLER.

PROVIDE A RED WARNING NAMEPLATE IN THE CONTROLLER NEAR THE MAIN BREAKER INDICATING "LIVE CIRCUITS EVEN WHEN MAIN CIRCUIT BREAKER IS IN OFF POSITION".

THE PANEL MANUFACTURER SHALL LABEL THE CABINET WITH THE APPROPRIATE ARC FLASH WARNING AND PERSONNEL PROTECTION EQUIPMENT REQUIRED FOR SERVICING.

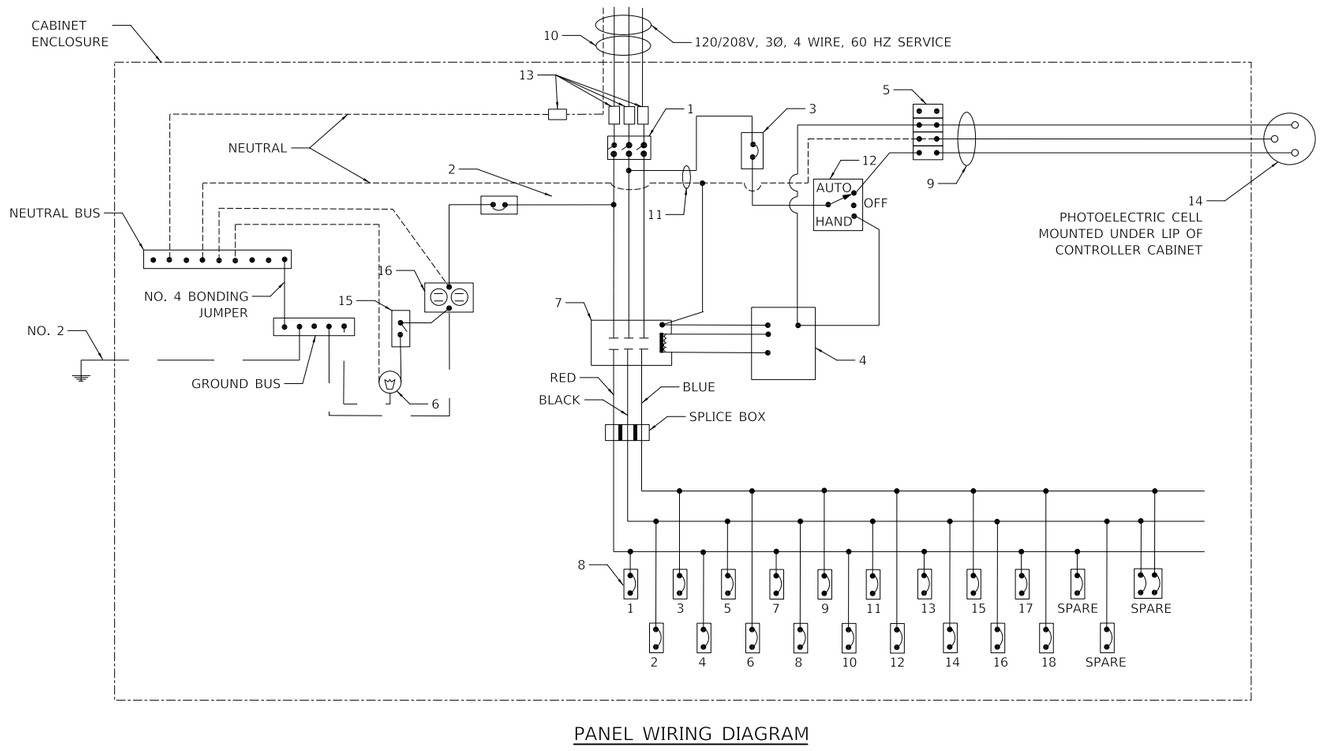
CONTROLLER CABINET DOOR SHALL BE ON THE PARKWAY SIDE OF THE CABINET, OPPOSITE THE ROADWAY.

THE ELECTRIC METER SHALL BE MOUNTED ON THE HINGE SIDE OF THE DOOR.



CONTROL CABINET - CONSOLE TYPE

PROPOSED LIGHTING CONTROLLER COMPONENT SCHEDULE	
ITEM	SPECIFICATION OR EQUAL
(1) MAIN CIRCUIT BREAKER	200 AMPERE, 3 POLE, 208 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 600V
(2) OUTLET CIRCUIT BREAKER	20 AMPERE, 1 POLE, 120 VOLT
(3) PHOTOELECTRIC CELL CONTROL CIRCUIT BREAKER	15 AMPERE, 1 POLE, 120 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 10,000 RMS SYMMETRICAL AMPS
(4) AUXILIARY RELAY	120 VOLT SPST 60 HZ COIL
(5) FOUR POINT TERMINAL BLOCK	600 VOLT
(6) LAMPHOLDER	800 LUMEN LED LIGHT FIXTURE VAPORTIGHT WITH GLOBE, GUARD AND MOUNTING BOX
(7) REMOTE CONTROL SWITCH - CONTACTOR	200 AMPERE, 3 POLE, 208 VOLT RATING, 120V COIL SQUARE D ELECTRICALLY OPERATED, ELECTRICALLY HELD LIGHTING CONTACTOR
(8) BRANCH LINE CIRCUIT BREAKERS	OUTLET CKTS. 1 - 7, AND 16 = 40 AMP, 1 POLE, 120 VOLT RATING OUTLET CKTS. 8 - 15 AND 17 - 18 = 30 AMP, 1 POLE, 120 VOLT RATING SPARE CKTS. = 30 AMPS 1 POLE AT 120 VOLT OR 2 POLES AT 208 VOLT RATING ALL CIRCUITS SHALL BE INTERRUPTING CAPACITY NOT LESS THAN 10,000 RMS SYMMETRICAL AMPS
(9) PHOTOELECTRIC CELL CONTROL WIRE	3-600V XLP NO. 10
(10) SERVICE CABLES	4-600V (XLP-TYPE USE) NO. 3/0
(11) CONTROL WIRE	2-600V XLP NO. 10
(12) HAND-AUTO-OFF CONTROL SWITCH	10 AMPERE, 3 POLE, 120 VOLT.
(13) LIGHTING ARRESTOR	BRACKET MOUNTED SURGE ARRESTOR FOR 120/208V 4W SERVICE
(14) PHOTOELECTRIC CELL	120 V, MOUNTED UNDER LIP OF CONTROLLER CABINET
(15) MICRO SWITCH	MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR IS OPEN
(16) OUTLET	120 VOLT, 20 AMP, GFCI RECEPTACLE, SPECIFICATION GRADE IN NEMA 5-15R WEATHERPROOF BOX WITH FLAP-TYPE COVER.



PANEL WIRING DIAGRAM

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
FILE NAME = ...\16-Lighting\3679-sht-lgt19.dgn

CIVILTECH

USER NAME = nem	DESIGNED - SJC	REVISED -	
	DRAWN - SJC	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - DNM	REVISED -	
PLOT DATE = 5/7/2024	DATE -	REVISED -	

CITY OF JOLIET

LIGHTING DETAIL
LIGHTING CONTROLLER 1 - CHICAGO ST. TREE OUTLETS

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	179
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

NOTES FOR CONTROL CABINET:

THE CABINET SHALL BE FABRICATED FROM 0.125" THICK ALUMINUM ALLOY SHEET AND SHALL BE REINFORCED WITH ALUMINUM ANGLES. THE CABINET DOOR SHALL BE NEMA TYPE 3 CONSTRUCTION WITH NEOPRENE GASKET. THE DOOR SHALL HAVE STAINLESS STEEL HINGES AND THREE POINT LOCKING SYSTEM.

CONTROL WIRING SHALL BE NO. 12 AWG., 600V, TYPE 'SIS' GRAY SWITCHBOARD WIRE, STRANDED COPPER.

THE HEADS OF CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUS CONNECTION AND GREEN FOR GROUND BUS CONNECTORS.

PROVIDE SEALING GROMMETS FOR ALL WIRING EXTENDING FROM DEVICE ENCLOSURES.

ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL 'ENCLOSED INDUSTRIAL CONTROL PANEL'.

PROVIDE A HOLDER AND WATERPROOF POUCH ON THE INNER SIDE OF THE CONTROLLER DOOR. FURNISH THE APPROVED COPY OF 'CONTROL CABINET WIRING DIAGRAM'.

A CONCRETE PAD 36" X 60" X 4" MINIMUM SIZE SHALL BE PLACED IN FRONT OF CONTROLLER CABINET DOOR WHEN THERE IS NO SIDEWALK. THE PAD SHALL BE POURED SEPARATELY FROM THE FOUNDATION AND INCLUDE A PREFORMED EXPANSION JOINT FILLER.
THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.

CONTROLLER CABINET PAINTING NOTE:
THE CABINET SHALL BE PRIMED AND PAINTED BLACK. A SAMPLE SHALL BE SUBMITTED WITH THE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. THE COST OF PAINTING THE CABINET SHALL BE INCLUDED IN THE COSTS OF MATERIAL AND INSTALLATION OF STREET LIGHTING CONTROLLER.

PROVIDE A RED WARNING NAMEPLATE IN THE CONTROLLER NEAR THE MAIN BREAKER INDICATING "LIVE CIRCUITS EVEN WHEN MAIN CIRCUIT BREAKER IS IN OFF POSITION".

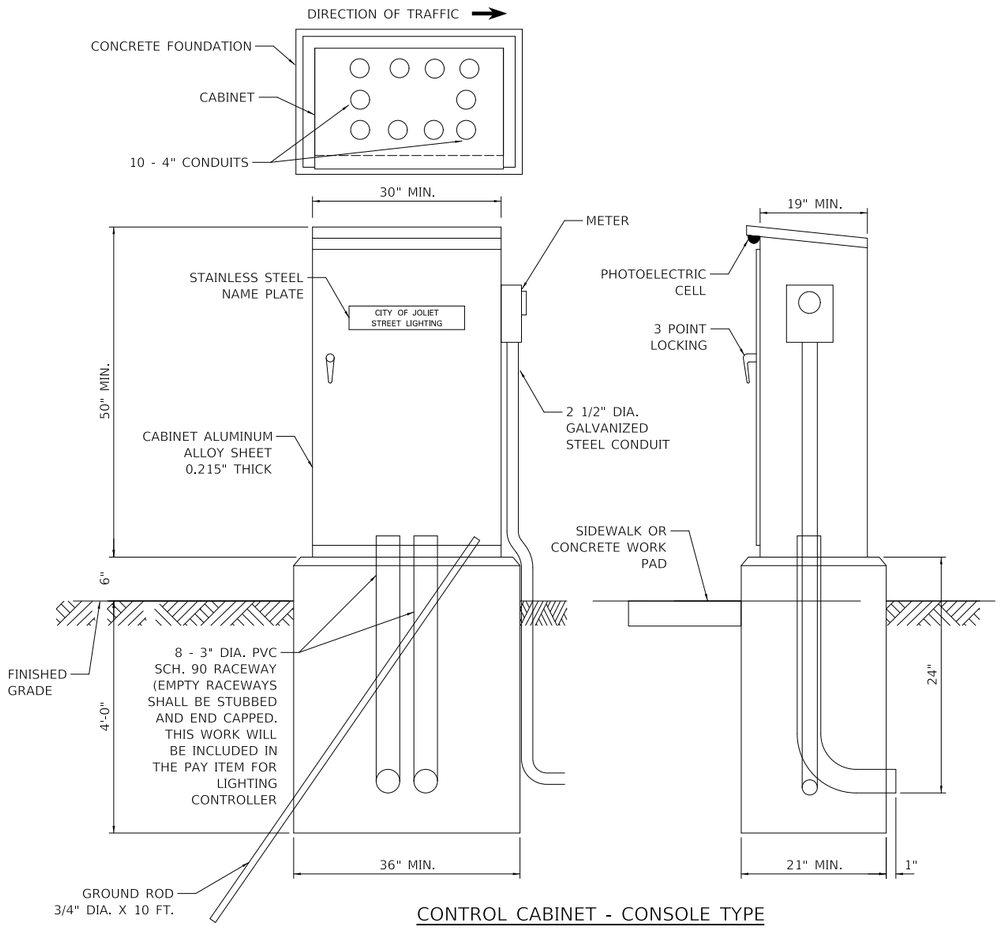
THE PANEL MANUFACTURER SHALL LABEL THE CABINET WITH THE APPROPRIATE ARC FLASH WARNING AND PERSONNEL PROTECTION EQUIPMENT REQUIRED FOR SERVICING.

CONTROLLER CABINET DOOR SHALL BE ON THE PARKWAY SIDE OF THE CABINET, OPPOSITE THE ROADWAY.

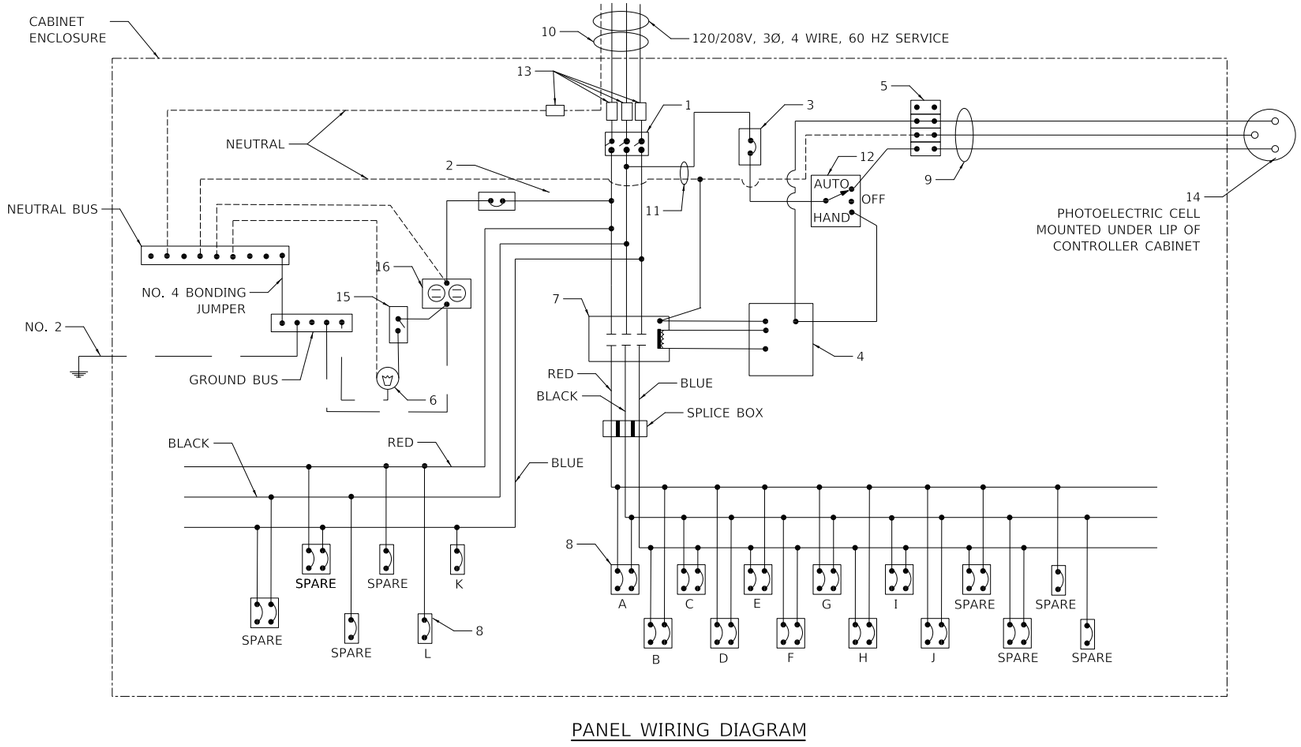
THE ELECTRIC METER SHALL BE MOUNTED ON THE HINGE SIDE OF THE DOOR.

PROPOSED LIGHTING CONTROLLER COMPONENT SCHEDULE

ITEM	SPECIFICATION OR EQUAL
(1) MAIN CIRCUIT BREAKER	200 AMPERE, 3 POLE, 208 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 600V
(2) OUTLET CIRCUIT BREAKER	20 AMPERE, 1 POLE, 120 VOLT
(3) PHOTOELECTRIC CELL CONTROL CIRCUIT BREAKER	15 AMPERE, 1 POLE, 120 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 10,000 RMS SYMMETRICAL AMPS
(4) AUXILIARY RELAY	120 VOLT SPST 60 HZ COIL
(5) FOUR POINT TERMINAL BLOCK	600 VOLT
(6) LAMPHOLDER	800 LUMEN LED LIGHT FIXTURE VAPORTIGHT WITH GLOBE, GUARD AND MOUNTING BOX
(7) REMOTE CONTROL SWITCH - CONTACTOR	200 AMPERE, 3 POLE, 208 VOLT RATING, 120V COIL SQUARE D ELECTRICALLY OPERATED, ELECTRICALLY HELD LIGHTING CONTACTOR
(8) BRANCH LINE CIRCUIT BREAKERS	LUMINAIRE CKTS. A - J = 30 AMP, 2 POLE, 208 VOLT RATING ILLUMINATED STOP SIGN CKTS. K - L = 20 AMP, 1 POLE, 120 VOLT RATING SPARE CKTS. = 40 AMPS 1 POLE AT 120 VOLT OR 2 POLES AT 208 VOLT RATING ALL CIRCUITS SHALL BE INTERRUPTING CAPACITY NOT LESS THAN 10,000 RMS SYMMETRICAL AMPS
(9) PHOTOELECTRIC CELL CONTROL WIRE	3-600V XLP NO. 10
(10) SERVICE CABLES	4-600V (XLP-TYPE USE) NO. 3/0
(11) CONTROL WIRE	2-600V XLP NO. 10
(12) HAND-AUTO-OFF CONTROL SWITCH	10 AMPERE, 3 POLE, 120 VOLT.
(13) LIGHTING ARRESTOR	BRACKET MOUNTED SURGE ARRESTOR FOR 120/208V 4W SERVICE
(14) PHOTOELECTRIC CELL	120 V, MOUNTED UNDER LIP OF CONTROLLER CABINET
(15) MICRO SWITCH	MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR IS OPEN
(16) OUTLET	120 VOLT, 20 AMP, GFCI RECEPTACLE, SPECIFICATION GRADE IN NEMA 5-15R WEATHERPROOF BOX WITH FLAP-TYPE COVER.



CONTROL CABINET - CONSOLE TYPE



PANEL WIRING DIAGRAM

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
FILE NAME = ...\16-Lighting\3679-sht-lgt20.dgn

CIVILTECH

USER NAME = nem	DESIGNED - SJC	REVISED -
	DRAWN - SJC	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

LIGHTING DETAIL
LIGHTING CONTROLLER 2 - CHICAGO ST. STREET LIGHTS

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	180
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

NOTES FOR CONTROL CABINET:

THE CABINET SHALL BE FABRICATED FROM 0.125" THICK ALUMINUM ALLOY SHEET AND SHALL BE REINFORCED WITH ALUMINUM ANGLES. THE CABINET DOOR SHALL BE NEMA TYPE 3 CONSTRUCTION WITH NEOPRENE GASKET. THE DOOR SHALL HAVE STAINLESS STEEL HINGES AND THREE POINT LOCKING SYSTEM.

CONTROL WIRING SHALL BE NO. 12 AWG., 600V, TYPE 'SIS' GRAY SWITCHBOARD WIRE, STRANDED COPPER.

THE HEADS OF CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUS CONNECTION AND GREEN FOR GROUND BUS CONNECTORS.

PROVIDE SEALING GROMMETS FOR ALL WIRING EXTENDING FROM DEVICE ENCLOSURES.

ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL 'ENCLOSED INDUSTRIAL CONTROL PANEL'.

PROVIDE A HOLDER AND WATERPROOF POUCH ON THE INNER SIDE OF THE CONTROLLER DOOR. FURNISH THE APPROVED COPY OF 'CONTROL CABINET WIRING DIAGRAM'.

A CONCRETE PAD 36" X 60" X 4" MINIMUM SIZE SHALL BE PLACED IN FRONT OF CONTROLLER CABINET DOOR WHEN THERE IS NO SIDEWALK. THE PAD SHALL BE POURED SEPARATELY FROM THE FOUNDATION AND INCLUDE A PREFORMED EXPANSION JOINT FILLER.
THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.

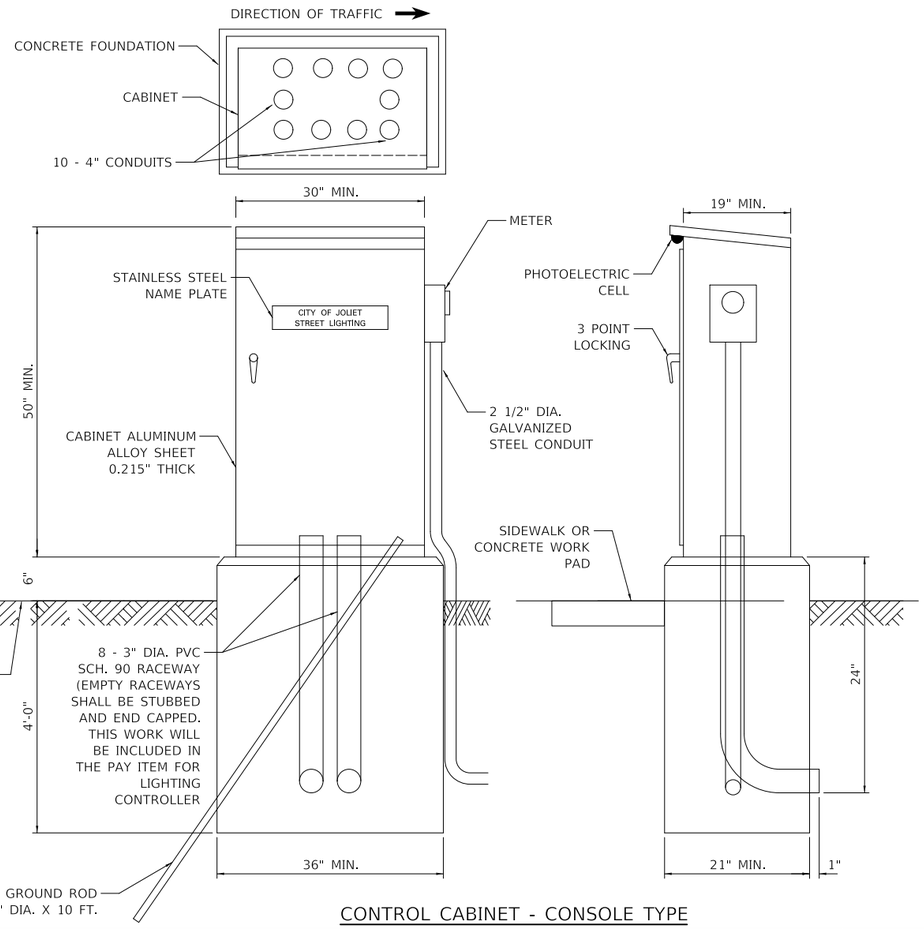
CONTROLLER CABINET PAINTING NOTE:
THE CABINET SHALL BE PRIMED AND PAINTED BLACK. A SAMPLE SHALL BE SUBMITTED WITH THE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. THE COST OF PAINTING THE CABINET SHALL BE INCLUDED IN THE COSTS OF MATERIAL AND INSTALLATION OF STREET LIGHTING CONTROLLER.

PROVIDE A RED WARNING NAMEPLATE IN THE CONTROLLER NEAR THE MAIN BREAKER INDICATING "LIVE CIRCUITS EVEN WHEN MAIN CIRCUIT BREAKER IS IN OFF POSITION".

THE PANEL MANUFACTURER SHALL LABEL THE CABINET WITH THE APPROPRIATE ARC FLASH WARNING AND PERSONNEL PROTECTION EQUIPMENT REQUIRED FOR SERVICING.

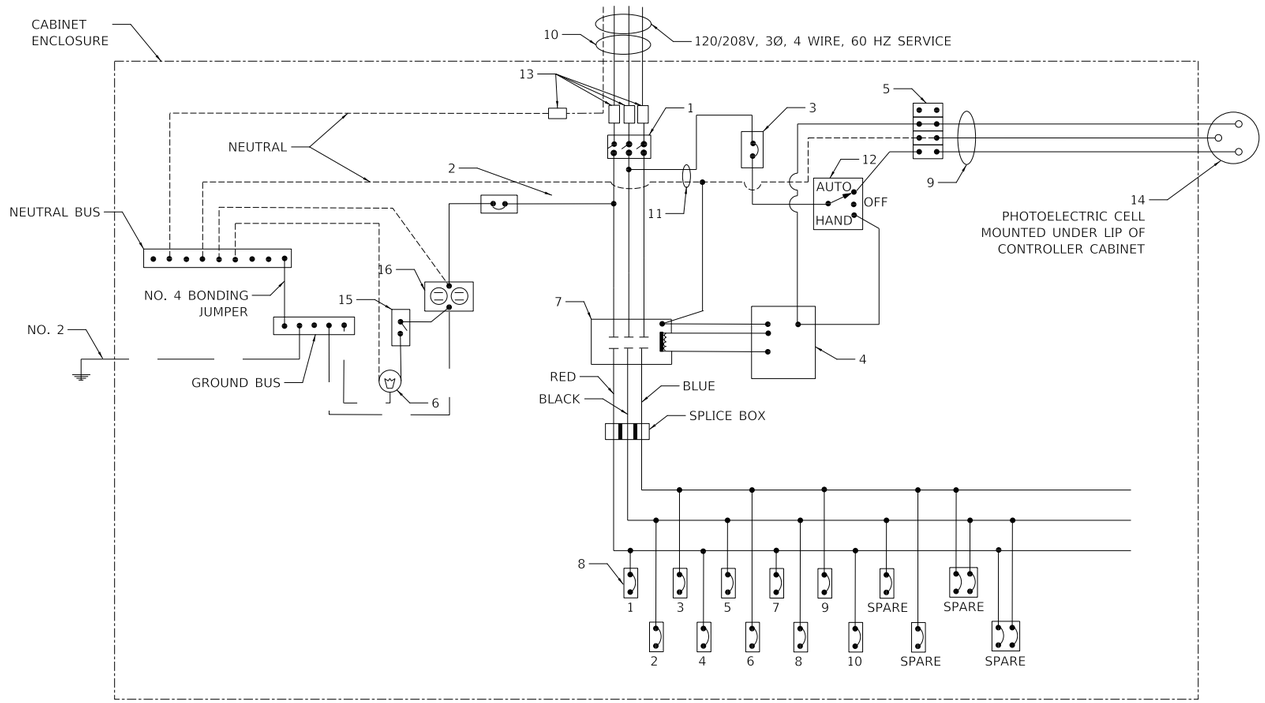
CONTROLLER CABINET DOOR SHALL BE ON THE PARKWAY SIDE OF THE CABINET, OPPOSITE THE ROADWAY.

THE ELECTRIC METER SHALL BE MOUNTED ON THE HINGE SIDE OF THE DOOR.



CONTROL CABINET - CONSOLE TYPE

PROPOSED LIGHTING CONTROLLER COMPONENT SCHEDULE	
ITEM	SPECIFICATION OR EQUAL
(1) MAIN CIRCUIT BREAKER	200 AMPERE, 3 POLE, 208 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 600V
(2) OUTLET CIRCUIT BREAKER	20 AMPERE, 1 POLE, 120 VOLT
(3) PHOTOELECTRIC CELL CONTROL CIRCUIT BREAKER	15 AMPERE, 1 POLE, 120 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 10,000 RMS SYMMETRICAL AMPS
(4) AUXILIARY RELAY	120 VOLT SPST 60 HZ COIL
(5) FOUR POINT TERMINAL BLOCK	600 VOLT
(6) LAMPHOLDER	800 LUMEN LED LIGHT FIXTURE VAPORTIGHT WITH GLOBE, GUARD AND MOUNTING BOX
(7) REMOTE CONTROL SWITCH - CONTACTOR	200 AMPERE, 3 POLE, 208 VOLT RATING, 120V COIL SQUARE D ELECTRICALLY OPERATED, ELECTRICALLY HELD LIGHTING CONTACTOR
(8) BRANCH LINE CIRCUIT BREAKERS	OUTLET CKTS. 1 - 9 = 40 AMP, 1 POLE, 120 VOLT RATING OUTLET CKT. 10 = 30 AMP, 1 POLE, 120 VOLT RATING SPARE CKTS. = 40 AMPS 1 POLE AT 120 VOLT OR 2 POLES AT 208 VOLT RATING ALL CIRCUITS SHALL BE INTERRUPTING CAPACITY NOT LESS THAN 10,000 RMS SYMMETRICAL AMPS
(9) PHOTOELECTRIC CELL CONTROL WIRE	3-600V XLP NO. 10
(10) SERVICE CABLES	4-600V (XLP-TYPE USE) NO. 3/0
(11) CONTROL WIRE	2-600V XLP NO. 10
(12) HAND-AUTO-OFF CONTROL SWITCH	10 AMPERE, 3 POLE, 120 VOLT.
(13) LIGHTING ARRESTOR	BRACKET MOUNTED SURGE ARRESTOR FOR 120/208V 4W SERVICE
(14) PHOTOELECTRIC CELL	120 V, MOUNTED UNDER LIP OF CONTROLLER CABINET
(15) MICRO SWITCH	MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR IS OPEN
(16) OUTLET	120 VOLT, 20 AMP, GFCI RECEPTACLE, SPECIFICATION GRADE IN NEMA 5-15R WEATHERPROOF BOX WITH FLAP-TYPE COVER.



PANEL WIRING DIAGRAM

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
FILE NAME = ...\16-Lighting\3679-sht-lg21.dgn

CIVILTECH

USER NAME = nem	DESIGNED - SJC	REVISED -	
	DRAWN - SJC	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - DNM	REVISED -	
PLOT DATE = 5/7/2024	DATE -	REVISED -	

CITY OF JOLIET

LIGHTING DETAIL
LIGHTING CONTROLLER 3 - CITY SQUARE TREE OUTLETS

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	181
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

NOTES FOR CONTROL CABINET:

THE CABINET SHALL BE FABRICATED FROM 0.125" THICK ALUMINUM ALLOY SHEET AND SHALL BE REINFORCED WITH ALUMINUM ANGLES. THE CABINET DOOR SHALL BE NEMA TYPE 3 CONSTRUCTION WITH NEOPRENE GASKET. THE DOOR SHALL HAVE STAINLESS STEEL HINGES AND THREE POINT LOCKING SYSTEM.

CONTROL WIRING SHALL BE NO. 12 AWG., 600V, TYPE 'SIS' GRAY SWITCHBOARD WIRE, STRANDED COPPER.

THE HEADS OF CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUS CONNECTION AND GREEN FOR GROUND BUS CONNECTORS.

PROVIDE SEALING GROMMETS FOR ALL WIRING EXTENDING FROM DEVICE ENCLOSURES.

ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL 'ENCLOSED INDUSTRIAL CONTROL PANEL'.

PROVIDE A HOLDER AND WATERPROOF POUCH ON THE INNER SIDE OF THE CONTROLLER DOOR. FURNISH THE APPROVED COPY OF 'CONTROL CABINET WIRING DIAGRAM'.

A CONCRETE PAD 36" X 60" X 4" MINIMUM SIZE SHALL BE PLACED IN FRONT OF CONTROLLER CABINET DOOR WHEN THERE IS NO SIDEWALK. THE PAD SHALL BE POURED SEPARATELY FROM THE FOUNDATION AND INCLUDE A PREFORMED EXPANSION JOINT FILLER.
THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.

CONTROLLER CABINET PAINTING NOTE:
THE CABINET SHALL BE PRIMED AND PAINTED BLACK. A SAMPLE SHALL BE SUBMITTED WITH THE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
THE COST OF PAINTING THE CABINET SHALL BE INCLUDED IN THE COSTS OF MATERIAL AND INSTALLATION OF STREET LIGHTING CONTROLLER.

PROVIDE A RED WARNING NAMEPLATE IN THE CONTROLLER NEAR THE MAIN BREAKER INDICATING "LIVE CIRCUITS EVEN WHEN MAIN CIRCUIT BREAKER IS IN OFF POSITION".

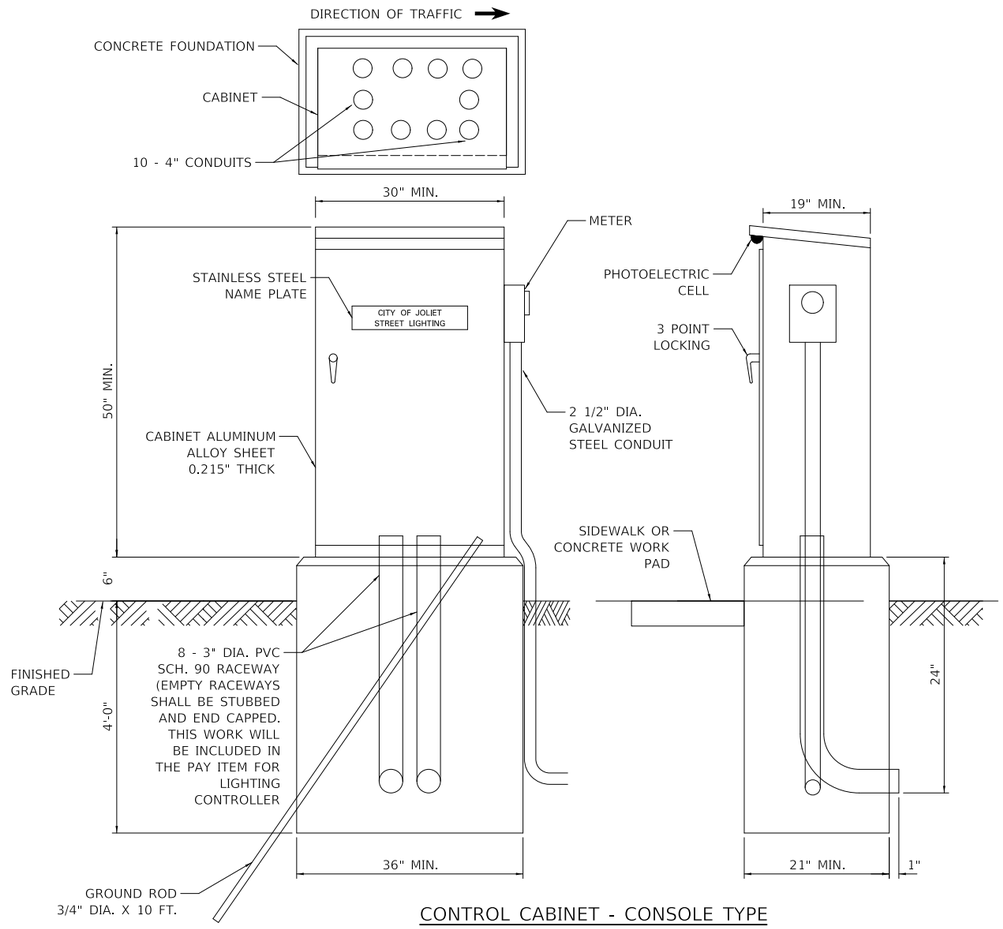
THE PANEL MANUFACTURER SHALL LABEL THE CABINET WITH THE APPROPRIATE ARC FLASH WARNING AND PERSONNEL PROTECTION EQUIPMENT REQUIRED FOR SERVICING.

CONTROLLER CABINET DOOR SHALL BE ON THE PARKWAY SIDE OF THE CABINET, OPPOSITE THE ROADWAY.

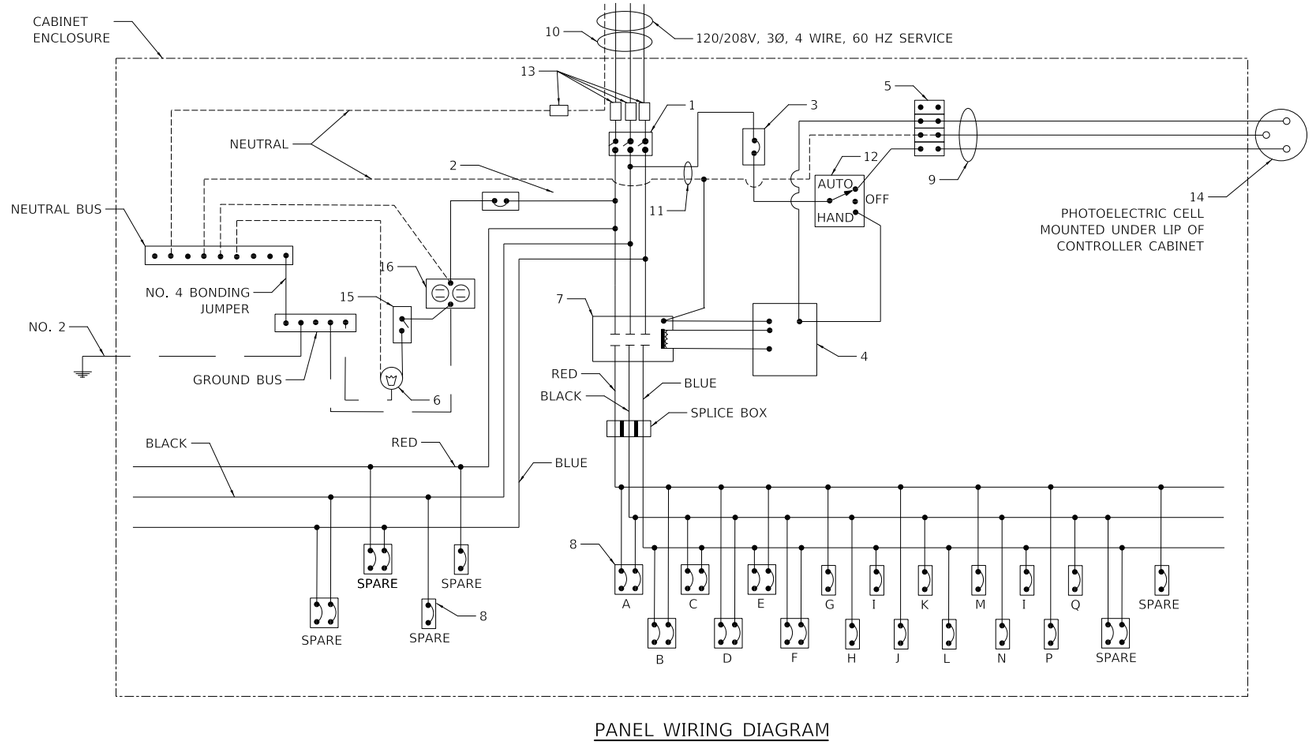
THE ELECTRIC METER SHALL BE MOUNTED ON THE HINGE SIDE OF THE DOOR.

PROPOSED LIGHTING CONTROLLER COMPONENT SCHEDULE

ITEM	SPECIFICATION OR EQUAL
(1) MAIN CIRCUIT BREAKER	200 AMPERE, 3 POLE, 208 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 600V
(2) OUTLET CIRCUIT BREAKER	20 AMPERE, 1 POLE, 120 VOLT
(3) PHOTOELECTRIC CELL CONTROL CIRCUIT BREAKER	15 AMPERE, 1 POLE, 120 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 10,000 RMS SYMMETRICAL AMPS
(4) AUXILIARY RELAY	120 VOLT SPST 60 HZ COIL
(5) FOUR POINT TERMINAL BLOCK	600 VOLT
(6) LAMPHOLDER	800 LUMEN LED LIGHT FIXTURE VAPORTIGHT WITH GLOBE, GUARD AND MOUNTING BOX
(7) REMOTE CONTROL SWITCH - CONTACTOR	200 AMPERE, 3 POLE, 208 VOLT RATING, 120V COIL SQUARE D ELECTRICALLY OPERATED, ELECTRICALLY HELD LIGHTING CONTACTOR
(8) BRANCH LINE CIRCUIT BREAKERS	LUMINAIRE CKTS. A - F = 30 AMP, 2 POLE, 208 VOLT RATING FESTOON LIGHTING CKTS. G - J AND L - M = 20 AMP, 1 POLE, 120 VOLT RATING TREE LIGHT CKS. K = 20 AMPS, 1 POLE, 120 VOLT RATING FOUNTAIN LIGHTS CKTS. N - P = 20 AMPS, 1 POLE, 120 VOLT RATING TIER SEAT LIGHTING CKTS. Q = 20 AMPS, 1 POLE, 120 VOLT RATING SPARE CKTS. = 30 AMPS 1 POLE AT 120 VOLT OR 2 POLES AT 208 VOLT RATING ALL CIRCUITS SHALL BE INTERRUPTING CAPACITY NOT LESS THAN 10,000 RMS SYMMETRICAL AMPS
(9) PHOTOELECTRIC CELL CONTROL WIRE	3-600V XLP NO. 10
(10) SERVICE CABLES	4-600V (XLP-TYPE USE) NO. 3/0
(11) CONTROL WIRE	2-600V XLP NO. 10
(12) HAND-AUTO-OFF CONTROL SWITCH	10 AMPERE, 3 POLE, 120 VOLT.
(13) LIGHTING ARRESTOR	BRACKET MOUNTED SURGE ARRESTOR FOR 120/208V 4W SERVICE
(14) PHOTOELECTRIC CELL	120 V, MOUNTED UNDER LIP OF CONTROLLER CABINET
(15) MICRO SWITCH	MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR IS OPEN
(16) OUTLET	120 VOLT, 20 AMP, GFCI RECEPTACLE, SPECIFICATION GRADE IN NEMA 5-15R WEATHERPROOF BOX WITH FLAP-TYPE COVER.



CONTROL CABINET - CONSOLE TYPE



PANEL WIRING DIAGRAM

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
FILE NAME = ...\16-Lighting\3679-ahs-lgt22.dgn

CIVILTECH

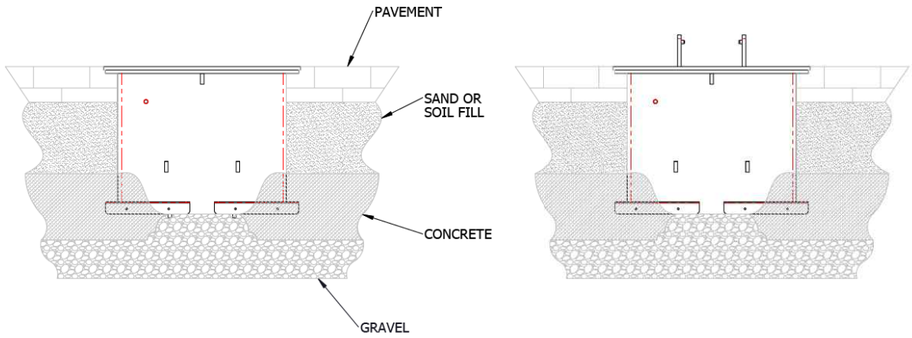
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	DRAWN - SJC	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

LIGHTING DETAIL
LIGHTING CONTROLLER 4 - CITY SQUARE LIGHTS

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

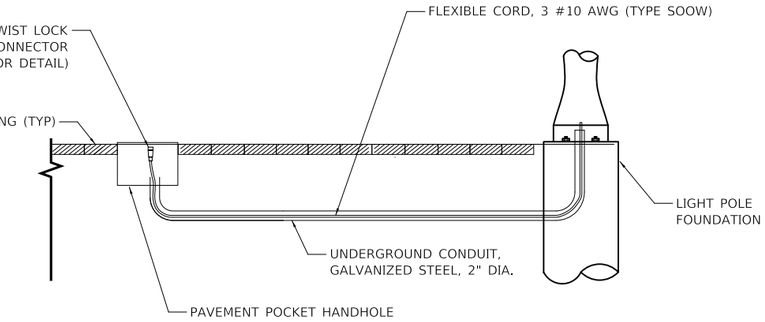
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	182
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	



5 X 5 Pavement Pocket In Pavement
PART # PED1001

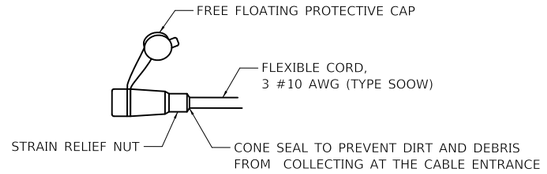
PEDOC
THE OUTDOOR ELECTRIC POWER SOLUTION

PEDOC Power Solutions | 888-518-0330 | www.pedocpower.com | E-mail:info@pedocpower.com



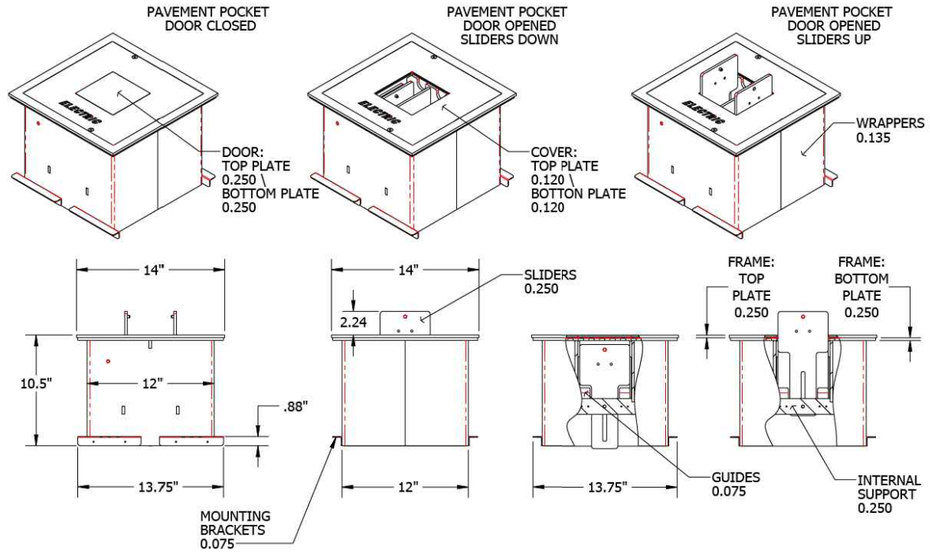
TREE OUTLET IN PAVEMENT POCKET HANDHOLE DETAIL

NOT TO SCALE



OUTLET CONNECTOR DETAIL

NOT TO SCALE



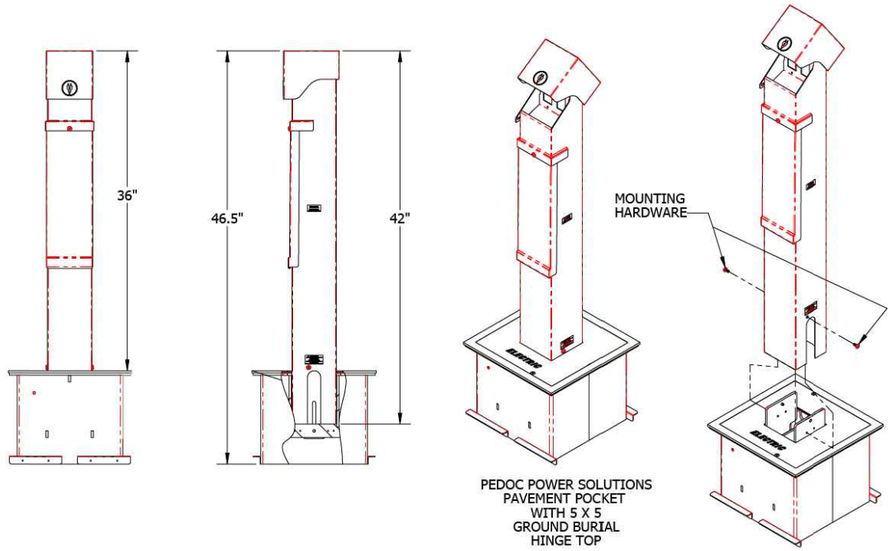
5 X 5 Pavement Pocket
PART # PED1001

Material: Stainless Steel

Finish: NoCorr 300 {Top Surfaces Only}

PEDOC
THE OUTDOOR ELECTRIC POWER SOLUTION

PEDOC Power Solutions | 888-518-0330 | www.pedocpower.com | E-mail:info@pedocpower.com



5 X 5 Pavement Pocket With 42" Ground Burial

PEDOC
THE OUTDOOR ELECTRIC POWER SOLUTION

PEDOC Power Solutions | 888-518-0330 | www.pedocpower.com | E-mail:info@pedocpower.com

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBL$
FILE NAME = ...\16-Lighting\3879-sht-lgt23.dgn

CIVILTECH

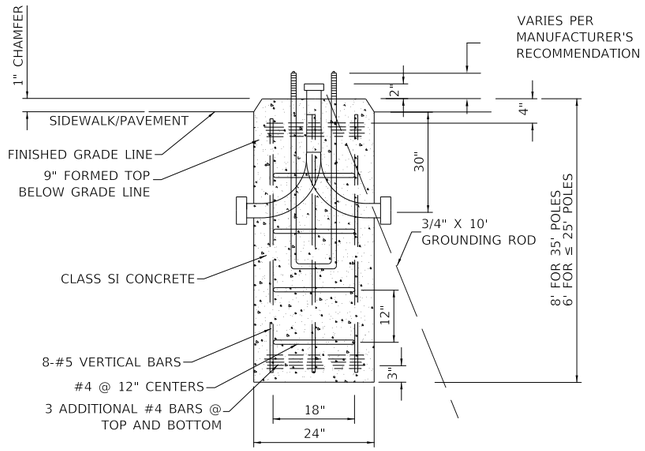
USER NAME = nem	DESIGNED - SJC	REVISED -
	DRAWN - SJC	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

LIGHTING DETAIL
PAVEMENT POCKET HANDHOLE

SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	183
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



STREET LIGHT POLE FOUNDATION TYPE A (TYPICAL)

1. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS POURED.

2. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4" ABOVE THE FINISHED GRADE WITHIN A 60" CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYONE THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACE AT THE CONTRACTOR'S EXPENSE.

3. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED.

4. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.

5. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.

6. ANCHOR RODS, NUTS AND WASHERS SHALL ABE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFIRMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.

7. ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES WITH A MINIMUM OF 3 INCHES OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.

8. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.

9. THE RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.

10. FOR FOUNDATION REDUCTION WITH ROCK, SUBTRACT 6" FOUNDATION DEPTH FOR EVERY 1' OF ROCK EXCAVATION (REBAR INTO ROCK).

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
FILE NAME = ...\16-Lighting\3879-sht-lgt24.dgn

CIVILTECH

USER NAME = nem	DESIGNED - SJC	REVISED -
	DRAWN - SJC	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

LIGHTING DETAIL
LIGHT POLE FOUNDATION

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	184
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

BILL OF MATERIAL

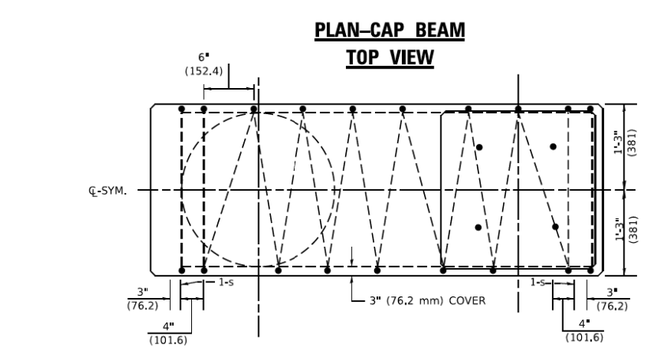
MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2.438 m)	▭
s_1	3	3	7'-6" (2.286 m)	▭
v_1	8	6	2'-9" (0.838 m)	—
v_2				

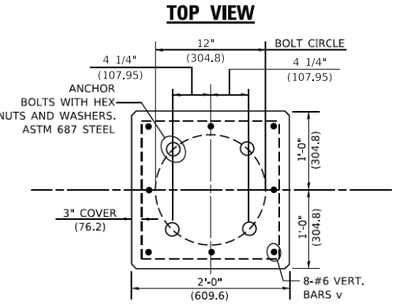
OFFSET SCHEDULE

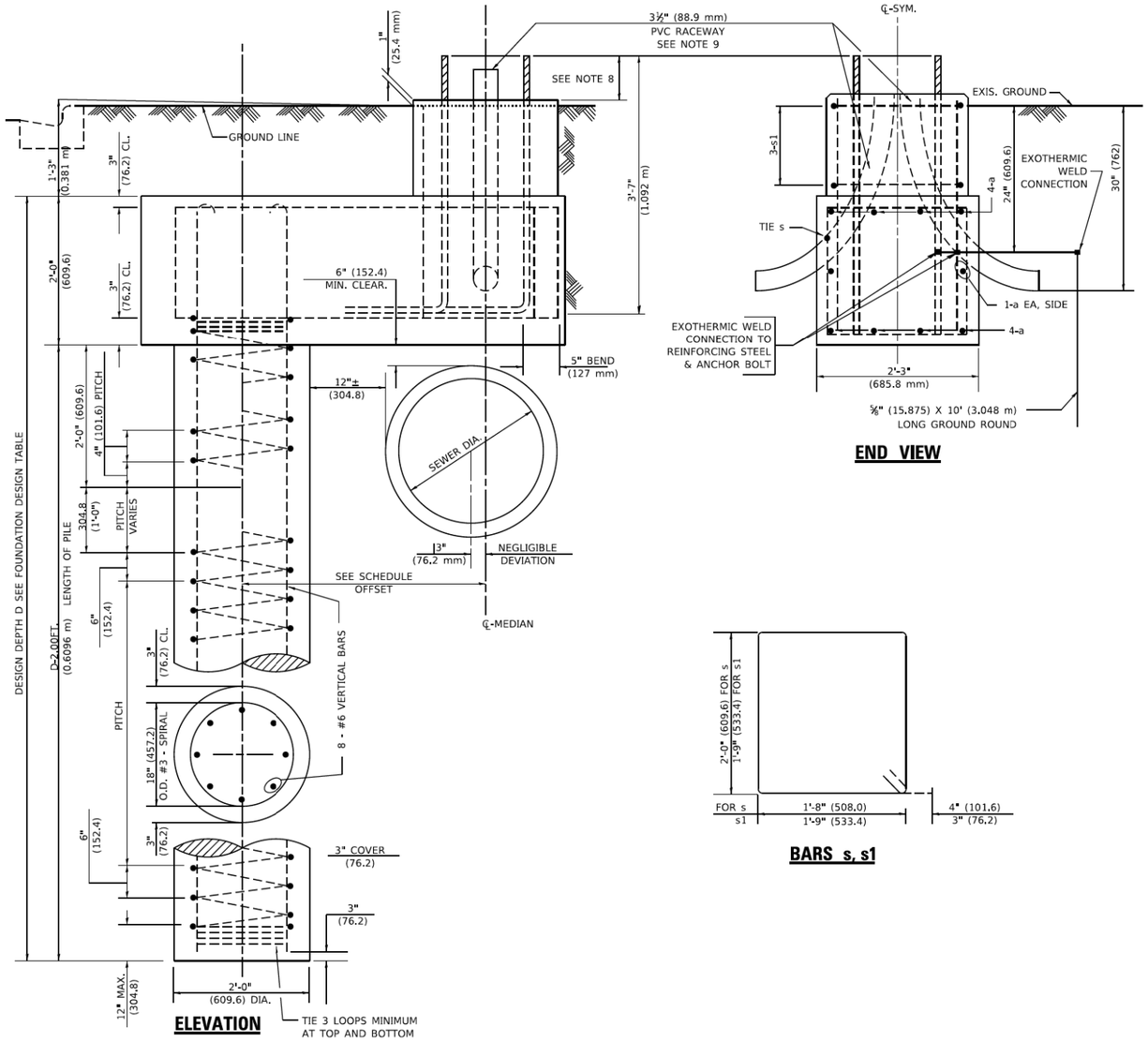
SEWER DIAM. d IN.	PILE OFFSET from ℄-MED'N FT.	LENGTH of BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1.600 m)
27" (685.8 m)TO 36" (914.4 mm)	3'-9" (1.143 m)	5'-9" (1.753 m)
42" (1066.8 mm) TO 48" (1219.2 mm)	4'-6" (1.372 m)	6'-6" (1.981 m)
54" (1371.6 mm) TO 60" (1524.0 mm)	5'-0" (1.524 m)	7'-0" (2.134 m)
66" (1676.4 mm) TO 72" (1828.8 mm)	5'-6" (1.676 m)	7'-6" (2.286 m)

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
3. EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
4. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
5. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
6. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
7. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 23#4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
8. RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
9. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.







PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
FILE NAME = ...\IE-Lighting\3679-sht-lg25.dgn

CIVILTECH	USER NAME = nem	DESIGNED - SJC	REVISED -	CITY OF JOLIET	LIGHT POLE OFFSET FOUNDATION
		DRAWN - SJC	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - DNM	REVISED -		SCALE: NTS SHEET OF SHEETS STA. TO STA.
	PLOT DATE = 5/7/2024	DATE -	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	185
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

1.00 GENERAL NOTES

1.01 THESE STRUCTURAL NOTES SHALL BE APPLIED WITH THE TECHNICAL SPECIFICATIONS IN THE SPECIFICATIONS MANUAL. ANY CONFLICTING REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER-OF-RECORD FOR RESOLUTION BEFORE PROCEEDING WITH FABRICATION OR CONSTRUCTION.

1.02 DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. FOR DETAILS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN.

1.03 VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCY.

1.04 THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. TAKE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING STRUCTURE AND ITS FOUNDATION AND TO LIMIT, TO THE EXTENT POSSIBLE, THE EFFECTS OF REMOVAL OF THE EXISTING STRUCTURE AND CONSTRUCTION OF THE NEW STRUCTURE HAS ON THE EXISTING STRUCTURE.

1.05 DESIGN CRITERIA:

THE STRUCTURE HAS BEEN DESIGNED UTILIZING THE FOLLOWING REFERENCES:

A. ILLINOIS BUILDING CODE, 2018
B. INTERNATIONAL BUILDING CODE, 2018
C. ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
D. ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
E. AISC STEEL CONSTRUCTION MANUAL 15TH EDITION
F. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2018
G. TMS 402/602-16, BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES

1.06 DESIGN LOADS

A.DEAD LOADS:
1. SELF WEIGHT

B.LIVE LOADS:
1. SLAB-ON-GRADE: 100 PSF
2. ROOFS: 20 PSF

C.WIND LOAD INFORMATION:

1. BASIC WIND SPEED: 107 MPH
2. BUILDING RISK CATEGORY: II
3. WIND EXPOSURE CATEGORY: B
4. ENCLOSURE CLASSIFICATION: OPEN
5. INTERNAL PRESSURE COEFFICIENT: 0.00
6. COMPONENT & CLADDING WIND PRESSURES:

D.SNOW LOAD INFORMATION:

1. GROUND SNOW LOAD, Pg: 25 PSF
2. FLAT ROOF SNOW LOAD, Pf: 21 PSF
3. SNOW EXPOSURE FACTOR, Ce: 1.0
4. SNOW LOAD IMPORTANCE FACTOR, I: 1.00
5. THERMAL FACTOR, Ct*: 1.2

1.07 THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

2.00 FOUNDATIONS

2.01 SHALLOW FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 5000 PSF.

2.02 AT THIS TIME NO GEOTECHNICAL REPORT HAS BEEN SUBMITTED. AN ALLOWABLE SOIL BEARING PRESSURE HAS BEEN CONSERVATIVELY ESTIMATED BASED ON SIMILAR PROJECTS OF THIS SIZE AND LOCATED IN THE SAME GENERAL AREA OF CONSTRUCTION. A QUALIFIED GEOTECHNICAL ENGINEER SHALL CHECK COMPACTION OF THE FOOTINGS. THE SOILS IMMEDIATELY BENEATH ALL FOOTINGS SHOULD BE COMPACTED FOR A MINIMUM DEPTH OF 12 INCHES TO A MINIMUM OF 95% OF THE SOIL'S MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D1557) USING A LARGE TAMPER. COMPACTION OF THE SOILS IMMEDIATELY BENEATH THE FOOTINGS SHOULD BE VERIFIED USING IN PLACE DENSITY TESTING AT A MINIMUM FREQUENCY OF ONE TEST PER 75 LINEAR FEET OF STRIP FOOTING OR ON EVERY OTHER COLUMN FOOTING.

2.03 A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS AND BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, BACKFILLS, ETC. SHOULD THE CONTRACTOR FIND UNDESIRABLE SOILS, HE SHALL STOP WORK AND IMMEDIATELY CONTACT THE ENGINEER OF RECORD. ALL FOOTINGS SHALL REST EITHER ON UNDISTURBED SOIL OR A MANUALLY OPERATED VIBRATORY SLED OR TAMPER SHOULD BE USED TO DENSIFY ANY SOILS IN THE BOTTOM OF THE FOOTING TRENCHES LOOSENED DURING THE EXCAVATION OPERATION.

2.04 SIDES OF FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING. FOUNDATIONS POURED AGAINST THE EARTH REQUIRE THE FOLLOWING PRECAUTIONS: SLOPE SIDES OF EXCAVATIONS AS APPROVED BY GEOTECHNICAL ENGINEER AND CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT.

2.05 CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY PROTECTING ALL EXCAVATION SLOPES.

2.06 DEWATER TO AT LEAST TWO FEET BELOW BOTTOM OF LOWEST FOUNDATION IF GROUNDWATER IS ENCOUNTERED.

3.00 REINFORCED CONCRETE

3.01 ALL CONCRETE WORK SHALL CONFORM TO ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS.

4.00 STRUCTURAL STEEL

4.01 STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED ACCORDING TO AISC 360-10 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

4.02 SUBMIT SHOP DRAWINGS PREPARED IN ACCORDANCE WITH AISC MANUAL "DETAILING FOR STEEL CONSTRUCTION", LATEST EDITION. STEEL FABRICATOR SHALL SUPPLY ANCHOR BOLT LOCATION DRAWINGS. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.

4.03 STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL STEEL SHAPES, PLATES, ANGLES, AND CHANNELS SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE. STEEL GUSSET PLATES USED IN BRACED FRAME CONNECTIONS SHALL CONFORM TO ASTM A572, GRADE 50. HOLLOW STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A500, GRADE C, FY = 50 KSI, UNLESS NOTED OTHERWISE.

4.04 BOLTS SHALL CONFORM TO ASTM A325, 3/4-INCH DIAMETER MINIMUM, UNLESS NOTED OTHERWISE. BOLTS IN BEARING CONNECTIONS SHALL BE DESIGNATED TYPE N, TENSIONED, SNUG-TIGHT AS DEFINED BY AISC. BOLTS IN MOMENT CONNECTIONS AND IN TRUSSES SHALL BE DESIGNATED SLIP-CRITICAL (SC). FULLY TENSION SLIP-CRITICAL CONNECTIONS WITH DIRECT TENSION INDICATOR WASHERS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.

4.05 HEADED ANCHOR RODS: ASTM F 1554, GRADE 36 ASTM F 1554, GRADE 55, WELDABLE, STRAIGHT.NUTS: ASTM A 563 (ASTM A 563M) HEAVY-HEX CARBON STEEL, PLATE WASHERS: ASTM A 36/A 36M CARBON STEEL, WASHERS: ASTM F 436 (ASTM F 436M), TYPE 1, HARDENED CARBON STEEL. FINISH: HOT-DIP ZINC COATING, ASTM A 153/A 153M, CLASS C MECHANICALLY DEPOSITED ZINC COATING, ASTM B 695, CLASS 50.

4.06 ALL COLUMNS, UNLESS NOTED OTHERWISE, SHALL BEAR ON 1 ½" GROUT BED. GROUT SHALL BE NON-SHRINK, NON-METALLIC AND SHALL BE PLACED PRIOR TO POURING OF UPPER FLOOR LEVELS.

4.07 HEADED STUD SHEAR CONNECTORS (INDICATED AS "HS" ON PLANS): ASTM A 108, GRADES 1010 THROUGH 1020, HEADED-STUD TYPE, COLD-FINISHED CARBON STEEL; AWS D1.1, TYPE B. USE AUTOMATIC END WELDING OF HEADED-STUD SHEAR CONNECTORS ACCORDING TO AWS D1.1 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

4.08 USE PRE-QUALIFIED WELDED JOINTS AS PER AISC, AND AWS D1.1 "STRUCTURAL WELDING CODE." USE ONLY CERTIFIED WELDERS; ALL ELECTRODES SHALL CONFORM TO AWS A5 GRADE E70XX. BARE ELECTRODE AND GRANULAR FLUX SHALL CONFORM TO AWS A5, F70 AWS FLUX CLASSIFICATION. MINIMUM WELD SIZE TO BE 3/16" FILLET WELD, U.N.O.

4.09 CUTS, BOLTS, COPING, ETC. REQUIRED FOR WORK OR OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.

4.10 SHOP CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS MAY BE WELDED OR BOLTED. FIELD CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE BOLTED, WHERE POSSIBLE.

4.11 PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING TO PROVIDE LATERAL SUPPORT UNTIL ALL PERMANENT BRACING MOMENT CONNECTIONS AND FLOOR AND ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED.

4.12 PAINT STRUCTURAL STEEL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. DO NOT PAINT STEEL SURFACES TO BE ENCASED IN CONCRETE OR RECEIVE SPRAYED ON FIREPROOFING, CONNECTIONS DESIGNATED AS SLIP CRITICAL, OR TO BE WELDED. STEEL SURFACES RECEIVING AUTOMATICALLY WELDED SHEAR CONNECTORS STUDS IN THE FIELD SHALL NOT BE PAINTED.

STEEL DECKING:

4.13 FABRICATION AND ERECTION OF STEEL DECKING SHALL CONFORM TO THE LATEST EDITION OF THE STEEL DECK INSTITUTE'S (SDI) "SPECIFICATION AND COMMENTARY FOR COMPOSITE STEEL FLOOR DECK, NON-COMPOSITE STEEL DECK, AND STEEL ROOF DECK" AS APPLICABLE TO THIS PROJECT.

4.14 MATERIAL FOR STEEL DECKING SHALL CONFORM TO ASTM A1008 OR A653 WITH 50 KSI MINIMUM YEILD STRENGTH. SEE DRAWINGS FOR STEEL DECK TYPE, GAUGE, AND SECTION PROPERTIES.

4.15 ROOF DECK SHALL BE TYPE B, WIDE RIB.

4.16 UNLESS NOTED OTHERWISE ALL STEEL DECKING SHALL HAVE A GALVANIZED COATING CONFORMING TO ASTM A653, G90

4.17 STEEL ROOF DECK ANCHORAGE:

A.ANCHOR STEEL DECKING TO THE SUPPORTING STRUCTURE WITH #12 SELF-TAPPING STRONG-DRIVE XL LARGE-HEAD METAL SCREWS BY SIMPSON OR EQUIVALENT, AT ALL EDGE RIBS PLUS INTERIOR RIBS AT A MINIMUM SPACING OF 12 INCHES.

B.FASTEN SIDE LAPS OF ADJACENT UNITS AT A MAXIMUM SPACING OF 12 INCHES WITH 10 SELF-TAPPING XU METAL SCREWS BY SIMPSON.

4.18 PROVIDE DECKING CONTINUOUS OVER 3 SPANS MINIMUM WHERE SUPPORTING STRUCTURE PERMITS.

4.19 STEEL DECKING SHALL BE ERECTED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

5.00 MASONRY

5.01 CONCRETE MASONRY DESIGN, CONSTRUCTION AND TESTING SHALL CONFORM TO TMS 402/602-16, BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES.

5.02 PROVIDE LIGHTWEIGHT, HOLLOW, LOAD-BEARING CONCRETE MASONRY UNITS (CMU) CONFORMING TO ASTM C90, UNLESS NOTED OTHERWISE.

5.03 PROVIDE MASONRY CONSTRUCTION WITH MINIMUM COMPRESSIVE STRENGTH, f'_m = 2,000 PSI.

5.04 PROVIDE TYPE "M" OR "S" MORTAR IN ACCORDANCE WITH ASTM C270 BY PROPORTION REQUIREMENTS, UNLESS NOTED OTHERWISE.

5.05 VERTICAL CELLS SHALL BE REINFORCED WITH #5 AT 24" O.C. MINIMUM, UNLESS NOTED OTHERWISE (U.N.O.) IN THE CONTRACT DRAWINGS. VERTICAL REINFORCING SHALL BE CONTINUOUS (LAPPED 48 BAR DIAMETERS MINIMUM AT SPLICES, U.N.O.) AND HELD IN POSITION AT THE TOP AND BOTTOM OF THE GROUT POUR. U.N.O., POSITION VERTICAL REINFORCING IN THE CENTER OF THE CELL.

5.06 PROVIDE GROUT FOR REINFORCED MASONRY IN ACCORDANCE WITH ASTM C476. GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI UNLESS NOTED OTHERWISE. GROUT SHALL BE FLUID CONSISTENCY. FLUID CONSISTENCY SHALL MEAN THAT CONSISTENCY IS AS FLUID AS POSSIBLE FOR POURING WITHOUT SEGREGATION OF THE CONSTITUENT PARTS. FILL ALL CELLS BELOW GRADE WITH GROUT. ALL GROUT SHALL BE CONSOLIDATED AT THE TIME OF POURING BY VIBRATING AND THEN RECONSOLIDATED BY AGAIN PUDDLING LATER, BEFORE PLASTICITY IS LOST. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF THE GROUT 1-1/2 INCHES BELOW THE TOP OF THE UPPERMOST UNIT.

5.07 PROVIDE HORIZONTAL JOINT REINFORCEMENT COMPLYING WITH ASTM A82, NO. 9 GAUGE OR HEAVIER, ZINC COATED, PLACED 16 INCHES ON CENTER UNLESS NOTED OTHERWISE.

5.08 PROVIDE RUNNING BONDS WITH VERTICAL JOINTS LOCATED AT CENTER OF MASONRY UNITS IN THE ALTERNATE COURSE BELOW, UNLESS NOTED OTHERWISE.

5.09 ALL MASONRY UNITS SHALL BE FREE OF EXCESSIVE DUST AND DIRT AT THE TIME THEY ARE LAYED BY THE MASON.

5.10 ALL REINFORCED HOLLOW UNIT MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED. WALLS AND CROSS WEBS IN ALL REINFORCED MASONRY WALLS SHALL BE FULLY BEDDED IN MORTAR. ALL HEAD (OR END) JOINTS SHALL BE SOLIDLY FILLED WITH MORTAR FOR A DISTANCE IN FROM EACH FACE OF THE UNIT NOT LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS, BOND SHALL BE PROVIDED BY LAPPING UNITS IN SUCCESSIVE VERTICAL COURSES.

5.11 PROVIDE VERTICAL CONTROL JOINTS BETWEEN REINFORCED MASONRY WALLS AND MASONRY PARTITION WALLS, AND AT A MINIMUM OF 20'-0" O.C.

5.12 SAMPLE AND TEST MASONRY MATERIAL IN ACCORDANCE WITH TMS 602-16, TABLE 3, QUALITY ASSURANCE LEVEL 2.

5.13 INSPECT MASONRY CONSTRUCTION IN ACCORDANCE WITH TMS 602-16, TABLE 4, QUALITY ASSURANCE LEVEL 2.

6.00 COLD FORMED METAL FRAMING

6.01 FINAL DESIGN AND DETAIL FOR EXTERIOR METAL STUD FRAMING SHALL BE BY A DELEGATED ENGINEER REGISTERED IN THE STATE OF ILLINOIS. DELEGATED ENGINEER SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD. SHOP DRAWINGS SHALL INCLUDE WALL ELEVATIONS FOR EACH WALL, OPENING (JAMB, HEADER, AND SILL) DETAILS, CONNECTION DETAIL, ETC.

6.02 COLD FORMED METAL STUDS: GALVANIZED STEEL PER ASTM A525, G90 COATING MEETING THE REQUIREMENTS OF ASTM A446 GRADE A, WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI.

6.03 ALL LOAD-BEARING (IN-PLANE OR OUT-OF-PLANE) STUDS INDICATED SHALL BE 18 GAUGE MINIMUM AND HAVE 1-5/8" WIDE MINIMUM FLANGES WITH A ½" MINIMUM LIP AND SHALL BE SPACED AT 1'-4" O.C. MAX. SPACING, UNLESS NOTED OTHERWISE IN THE CONTRACT DRAWINGS. ALL TRACK INDICATED SHALL BE 18 GAUGE MINIMUM AND HAVE 1-1/4" WIDE MINIMUM FLANGES, UNLESS NOTED OTHERWISE IN THE CONTRACT DRAWINGS.

7.00 TIMBER FRAMING

7.01 SUBMIT PRODUCT DATA TO THE ENGINEER FOR REVIEW, INCLUDING, BUT NOT LIMITED TO, FASTENER DATA, TIMBER CONNECTOR DATA, TIMBER DESIGN STRENGTH, GLULAM DESIGN STRENGTH.

7.02 ALL TIMBER FRAMING SHALL BE KILN DIRED NO. 2 SOUTHERN PINE OR BETTER.

7.03 ALL TIMBER FRAMING SHALL BE PRESSURE TREATED AND KILN DRIED AFTER TREATING (KDAT).

7.04 ALL TIMBER CONNECTORS INDICATED ARE SIMPSON FASTENERS. EQUIVALENT FASTENERS BY OTHER MANUFACTURERS MAY BE SUBMITTED FOR REVIEW. ALL HOLES IN CONNECTORS SHALL BE FILLED WITH THE RECOMMENDED NUMBER OF FASTENERS. WHEN MULTIPLE CONNECTORS ARE USED, THEY MUST BE INSTALLED SO FASTENER LOCATIONS TO DO NOT OVERLAP. INSTALL ALL SPECIFIED FASTENERS BEFORE LOADING THE CONNECTION.

7.05 BOLT HOLES SHALL BE AT LEAST A MINIMUM OF 1/32" AND NO MORE THAN A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER.

DRAWN: ICM	REVISED BY	DATE	DESCRIPTION
CHECKED: GJH			
APPROVED: GJH			
DATE: 03/29/2024			

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CITY OF JOLIET

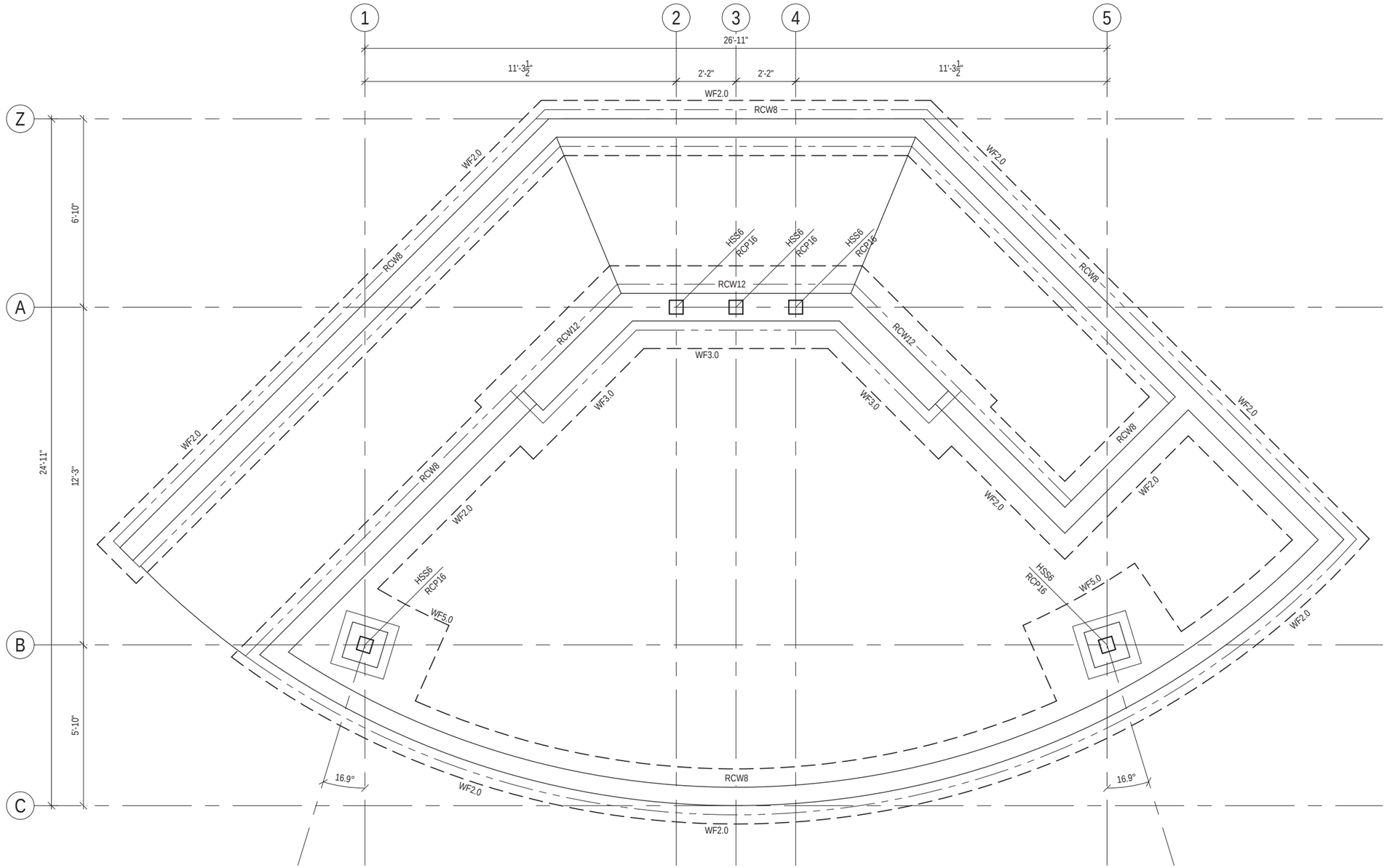
CITY SQUARE AND CHICAGO STREET IMPROVEMENTS

LANDSCAPE STRUCTURES
GEENERAL NOTES

SCALE: | SECTION NO. _____ | PROJECT NO. _____

DRAWING NO. S-0

SHEET NO. 186



1 FOUNDATION PLAN

SCALE = ½" = 1'-0" TOF: -3'-0"

LEGEND

HSS6	=	HSS6x6x½
RCP16	=	REINFORCED CONCRETE PIER 1'-4"x1'-4" REINFORCED W/ (4) #8 VERTICALS AND #4 TIES @ 12" O.C.
RCW8	=	8" THICK REINFORCED CONCRETE WALL W/ #5 @ 12" O.C. IN CENTER OF WALL
RCW12	=	1'-0" THICK REINFORCED CONCRETE WALL W/ #5 @ 12" O.C. EACH FACE

FOUNDATION SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	TOP REINFORCING	BOTTOM REINFORCING
WF2.0	SEE PLAN	2'-0"	1'-0"	(3) #4 LW & #4 @ 12" O.C. SW	(3) #5 LW & #5 @ 12" O.C. SW
WF3.0	SEE PLAN	3'-0"	1'-0"	(4) #4 LW & #4 @ 12" O.C. SW	(4) #5 LW & #5 @ 12" O.C. SW
WF5.0	SEE PLAN	5'-0"	1'-0"	(5) #5 LW & #5 @ 12" O.C. SW	(5) #5 LW & #5 @ 12" O.C. SW

DRAWN: ICM	REVISED BY	DATE	DESCRIPTION
CHECKED: GJH			
APPROVED: GJH			
DATE: 03/29/2024			

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CITY OF JOLIET

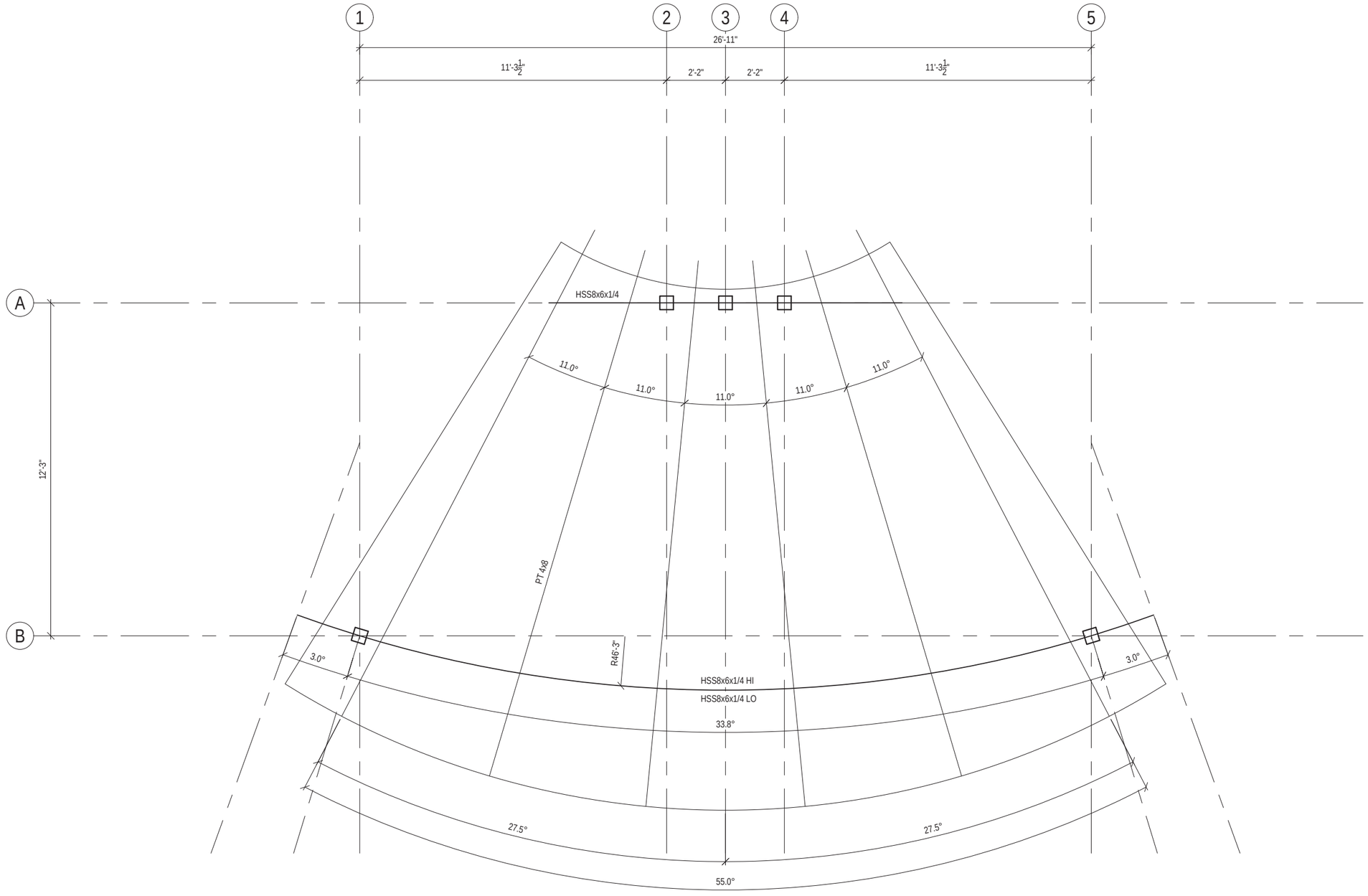
CITY SQUARE AND CHICAGO STREET IMPROVEMENTS

MAIN STAGE FOUNDATION PLAN

SCALE: SECTION NO. _____ PROJECT NO. _____

DRAWING NO. S-1

SHEET NO. 187



1 ROOF FRAMING PLAN
SCALE = 1/2" = 1'-0"

DRAWN: ICM	REVISED BY	DATE	DESCRIPTION
CHECKED: GJH			
APPROVED: GJH			
DATE: 03/29/2024			

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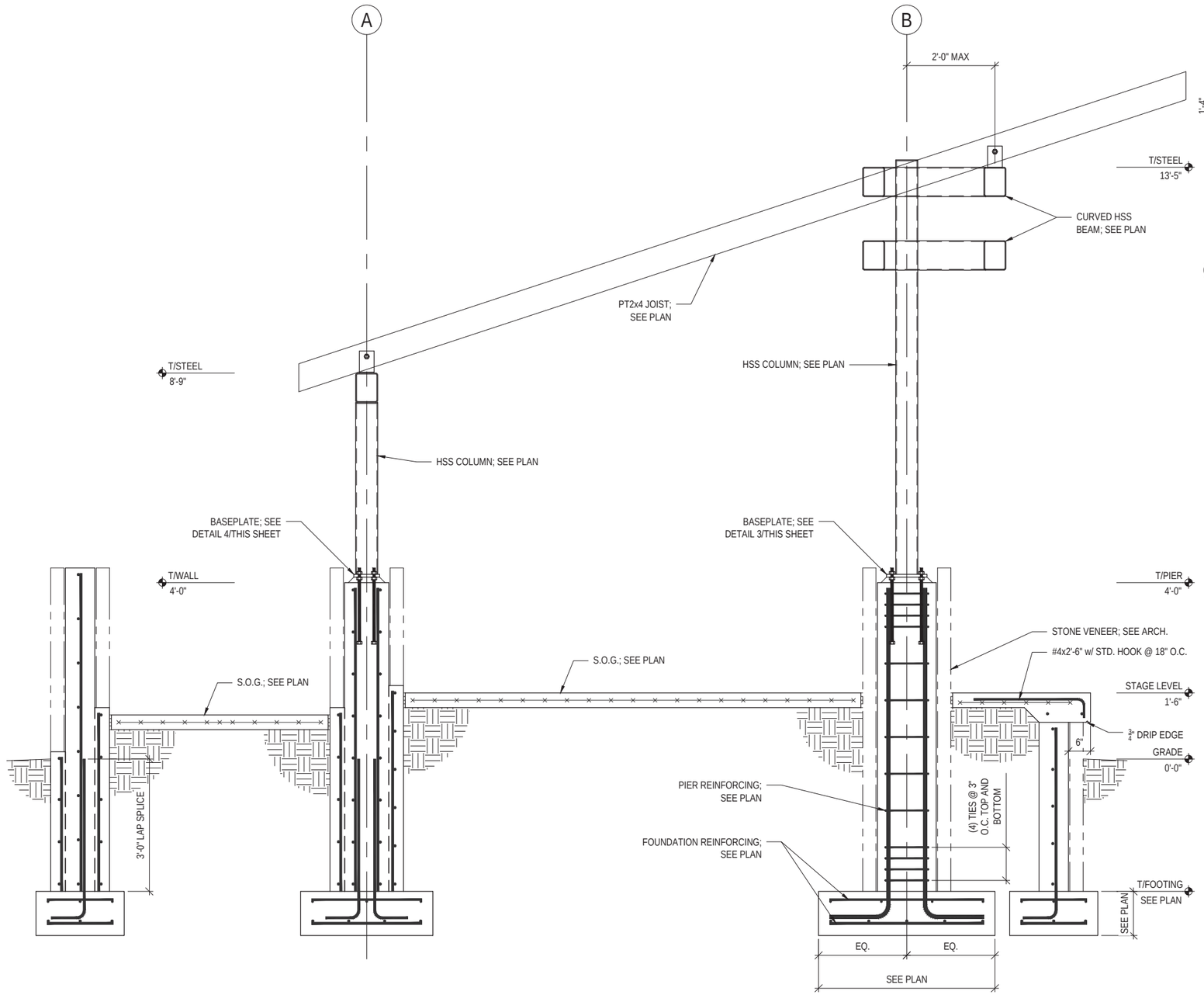
CITY SQUARE AND CHICAGO STREET IMPROVEMENTS

MAIN STAGE
ROOF FRAMING PLAN

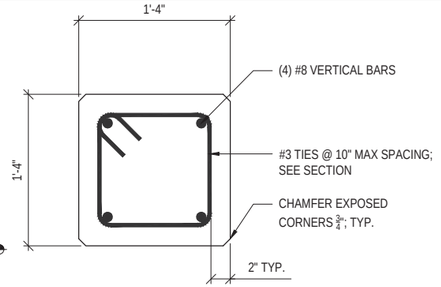
SCALE: NTS | SECTION NO. _____ | PROJECT NO. _____

DRAWING NO. S-2

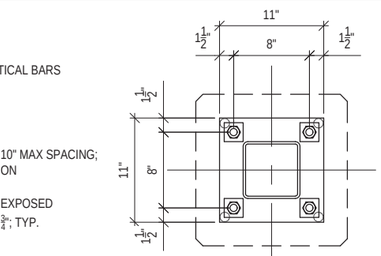
SHEET NO. 188

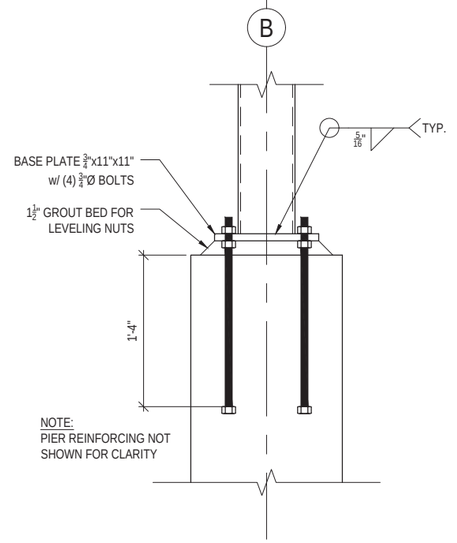


1 TYPICAL SECTION
SCALE = 3/8" = 1'-0"

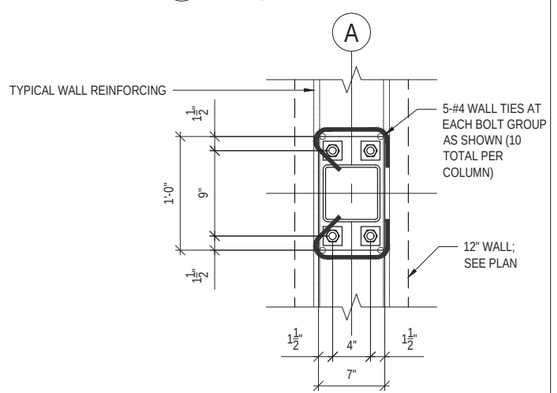


2 TYPICAL PIER SECTION
SCALE = 1 1/2" = 1'-0"





TYPICAL BASEPLATE DETAIL
3 GRID B
SCALE = 1 1/2" = 1'-0"



TYPICAL BASEPLATE DETAIL
4 GRID A
SCALE = 1 1/2" = 1'-0"

DRAWN: ICM	REVISED BY	DATE	DESCRIPTION
CHECKED: GJH			
APPROVED: GJH			
DATE: 03/29/2024			

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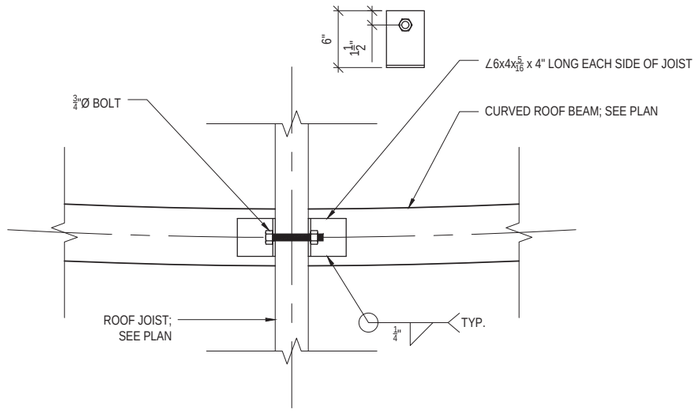
CITY SQUARE AND
CHICAGO STREET
IMPROVEMENTS

MAIN STAGE
SECTIONS AND DETAILS

SCALE: | SECTION NO. _____ | PROJECT NO. _____

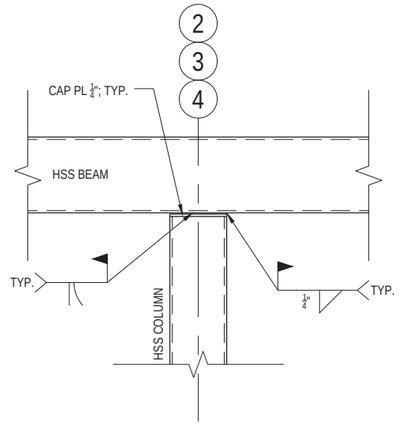
DRAWING NO. S-3

SHEET NO. 189



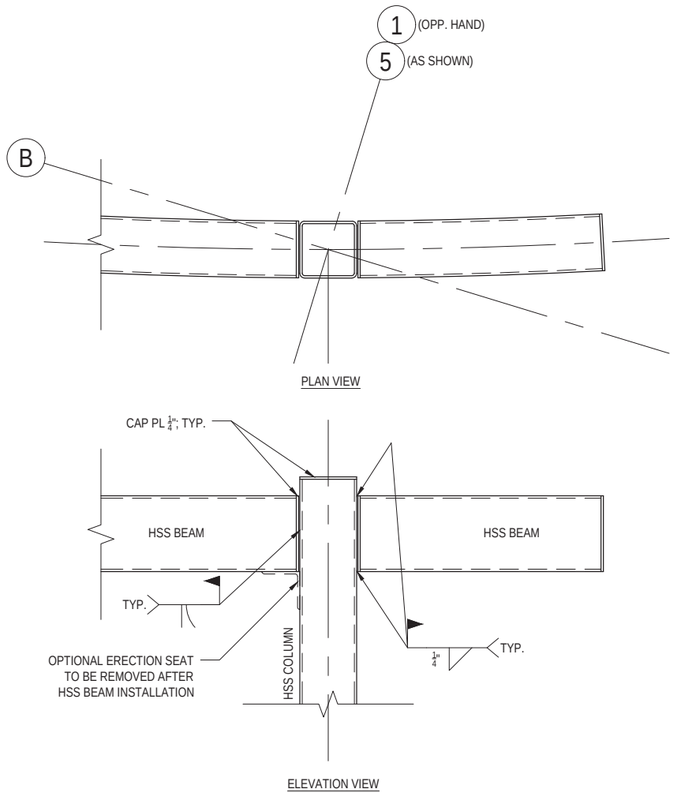
1 TYPICAL JOIST CONNECTION DETAIL

SCALE = 1 1/2" = 1'-0"



3 TYPICAL BEAM CONNECTION DETAIL

SCALE = 1 1/2" = 1'-0"



2 TYPICAL CURVED BEAM CONNECTION DETAIL

SCALE = 1 1/2" = 1'-0"

DRAWN: ICM	REVISED BY	DATE	DESCRIPTION
CHECKED: GJH			
APPROVED: GJH			
DATE: 03/29/2024			

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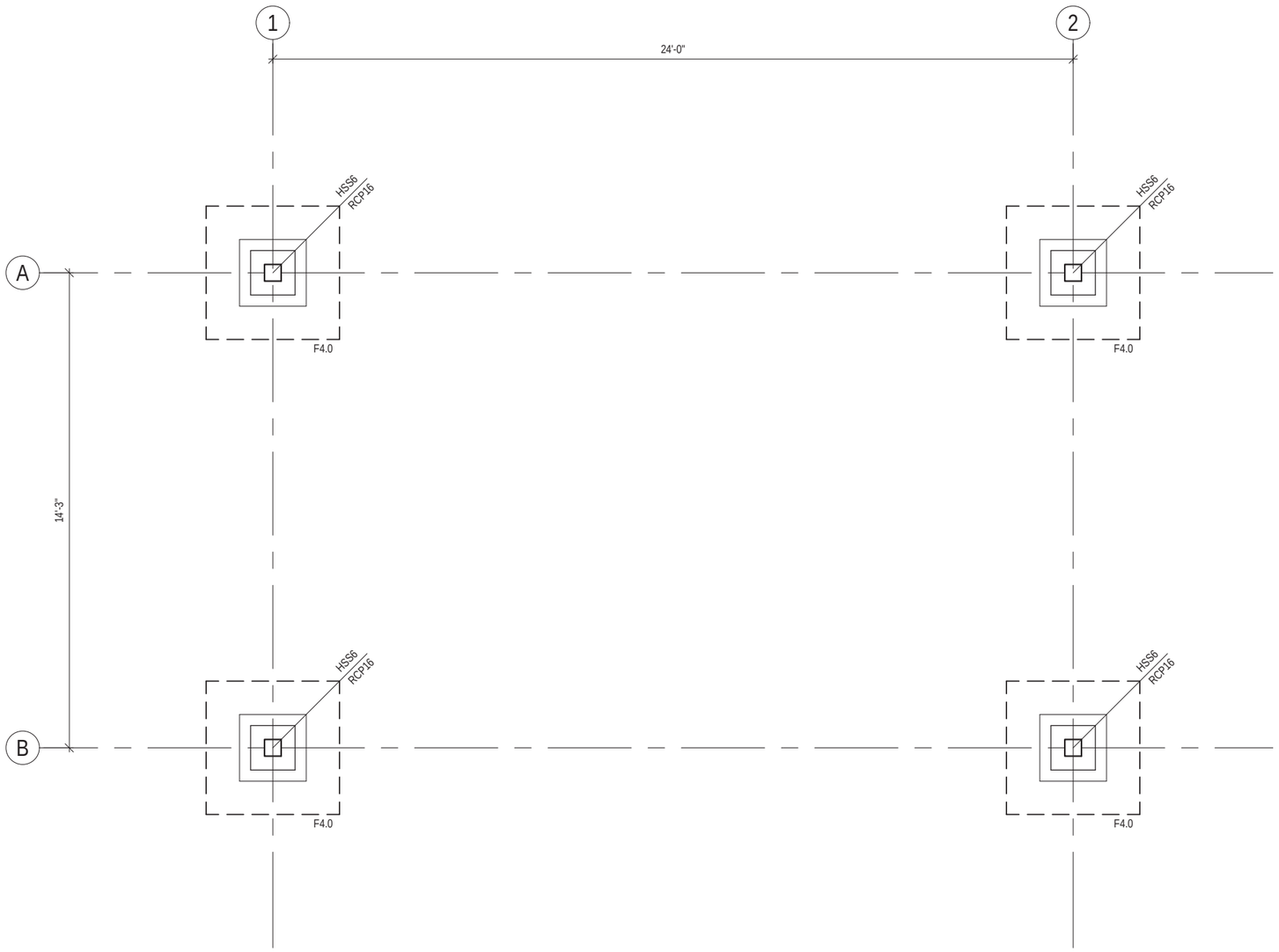
CITY SQUARE AND CHICAGO STREET IMPROVEMENTS

MAIN STAGE DETAILS

SCALE: | SECTION NO. _____ | PROJECT NO. _____

DRAWING NO. S-4

SHEET NO. 190



1 FOUNDATION PLAN

SCALE = $\frac{1}{2}$" = 1'-0"

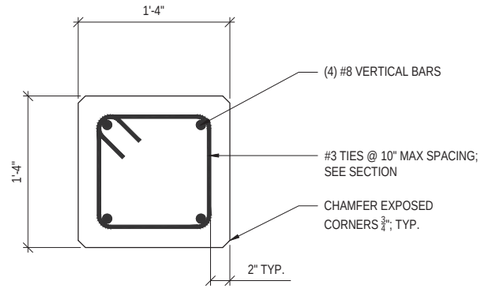
TOF: -3'-0"

LEGEND

HSS6 = HSS6x6x$\frac{1}{4}$

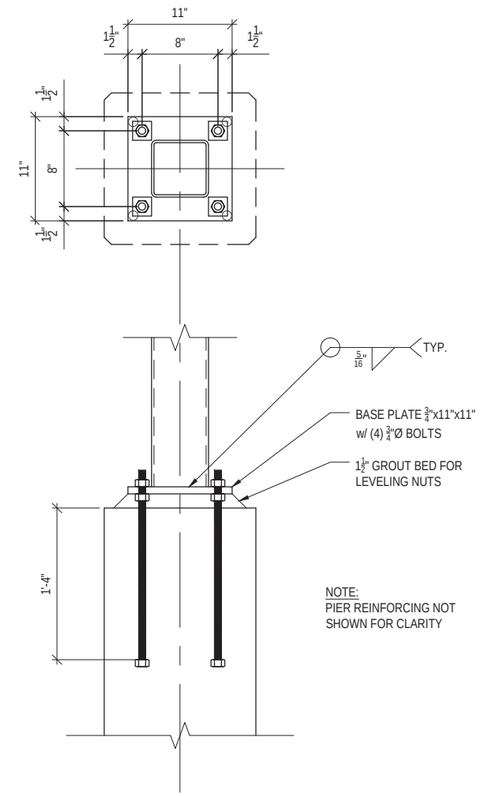
RCP16 = REINFORCED CONCRETE PIER 1'-4"x1'-4" REINFORCED W/ (4) #8 VERTICALS AND #4 TIES @ 12" O.C.

FOUNDATION SCHEDULE					
MARK	LENGTH	WIDTH	THICKNESS	TOP REINFORCING	BOTTOM REINFORCING
F3.0	3'-0"	3'-0"	1'-0"	(3) #4 EW	(4) #5 EW
F4.0	4'-0"	4'-0"	1'-0"	(4) #4 EW	(5) #5 EW



2 TYPICAL PIER SECTION

SCALE = $1\frac{1}{2}$" = 1'-0"



3 TYPICAL BASEPLATE SECTION

SCALE = $1\frac{1}{2}$" = 1'-0"

DRAWN: ICM	REVISED BY	DATE	DESCRIPTION
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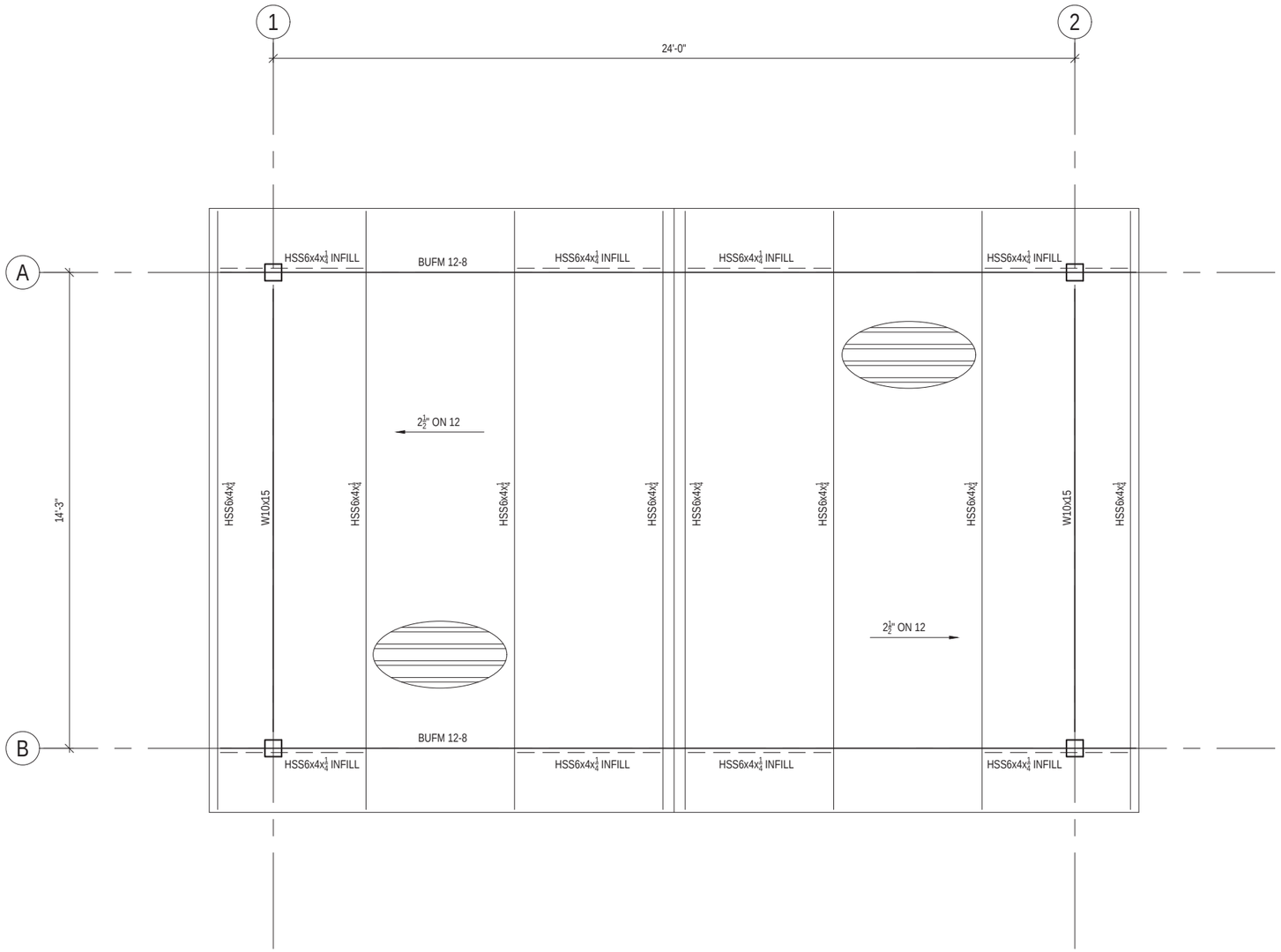
CITY SQUARE AND CHICAGO STREET IMPROVEMENTS

SMALL STAGE FOUNDATION PLAN

SCALE: | SECTION NO. _____ | PROJECT NO. _____

DRAWING NO. S-5

SHEET NO. 191

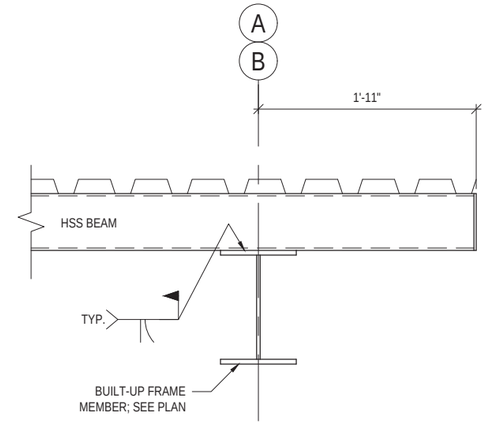


1 ROOF FRAMING PLAN
SCALE = ½" = 1'-0"

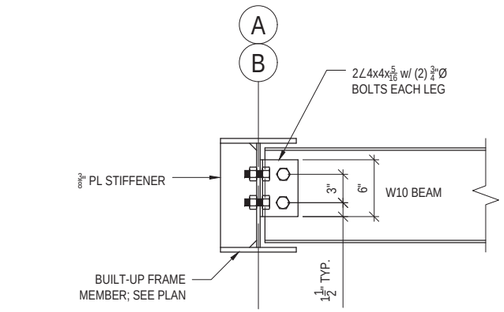
LEGEND

BUFM 12-8 = BUILT UP FRAME MEMBER 12" DEEP TAPERED DOWN TO 8" DEEP AT RIDGE; SEE ELEVATION

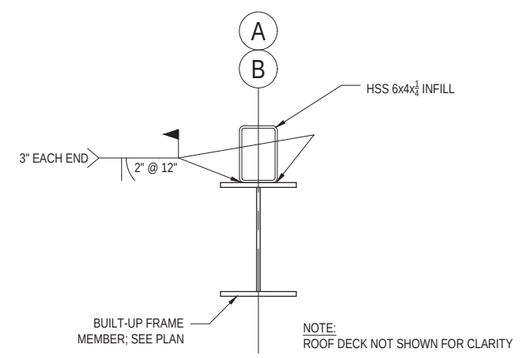
= 1.5B 18 GA ROOF DECK BY VULCRAFT OR SIMILAR



2 TYPICAL ROOF EDGE SECTION
SCALE = 1½" = 1'-0"



3 TYPICAL W10 CONNECTION DETAIL
SCALE = 1½" = 1'-0"



4 HSS INFILL DETAIL
SCALE = 1½" = 1'-0"

DRAWN: ICM	REVISED BY	DATE	DESCRIPTION
CHECKED: GJH			
APPROVED: GJH			
DATE: 03/29/2024			

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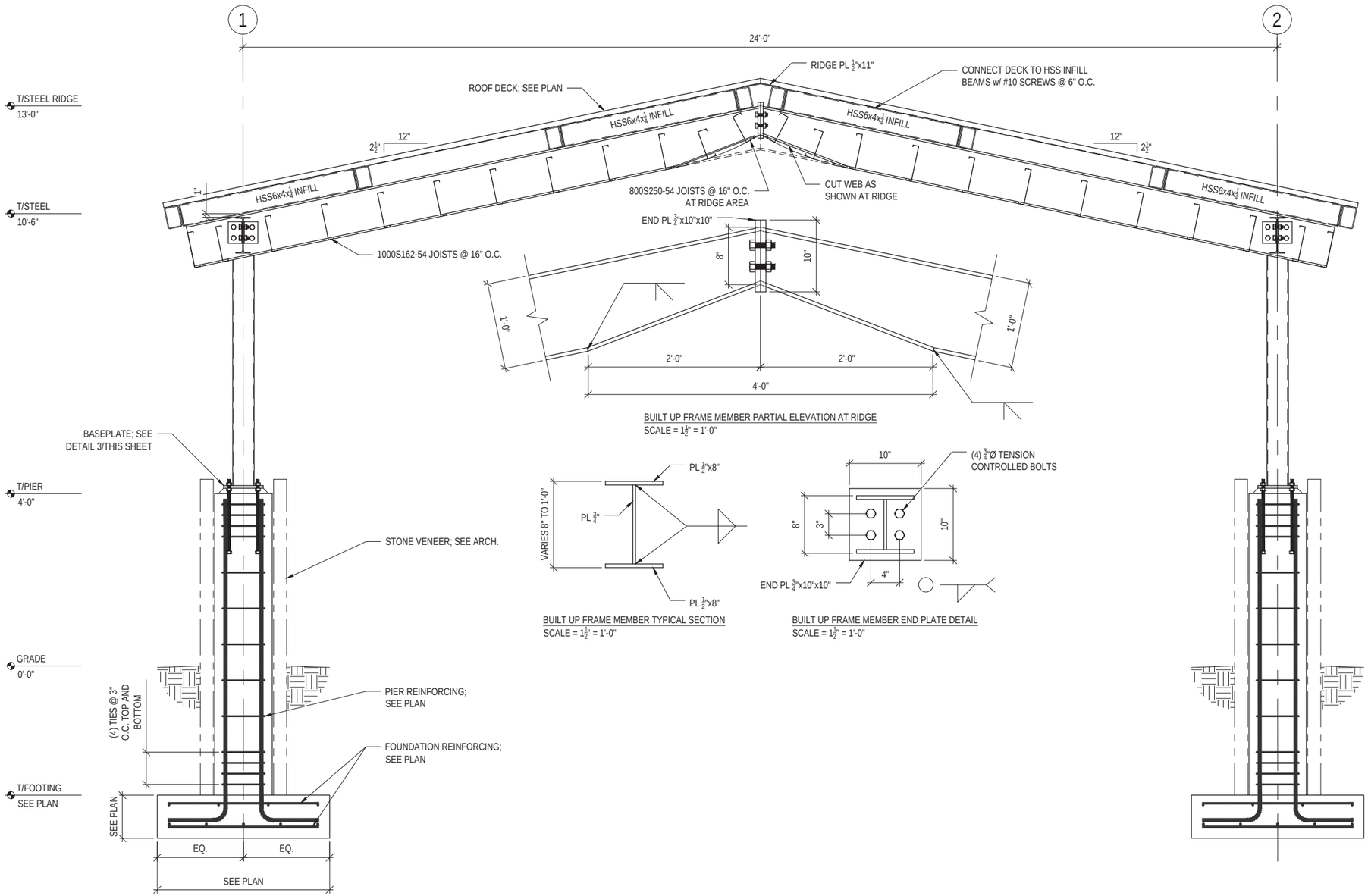
CITY SQUARE AND CHICAGO STREET IMPROVEMENTS

SMALL STAGE
ROOF FRAMING PLAN

SCALE: NTS | SECTION NO. _____ | PROJECT NO. _____

DRAWING NO. S-6

SHEET NO. 192



1 TYPICAL FRAME ELEVATION

SCALE = ¾" = 1'-0"

DRAWN: ICM	REVISED BY	DATE	DESCRIPTION
CHECKED: GJH			
APPROVED: GJH			
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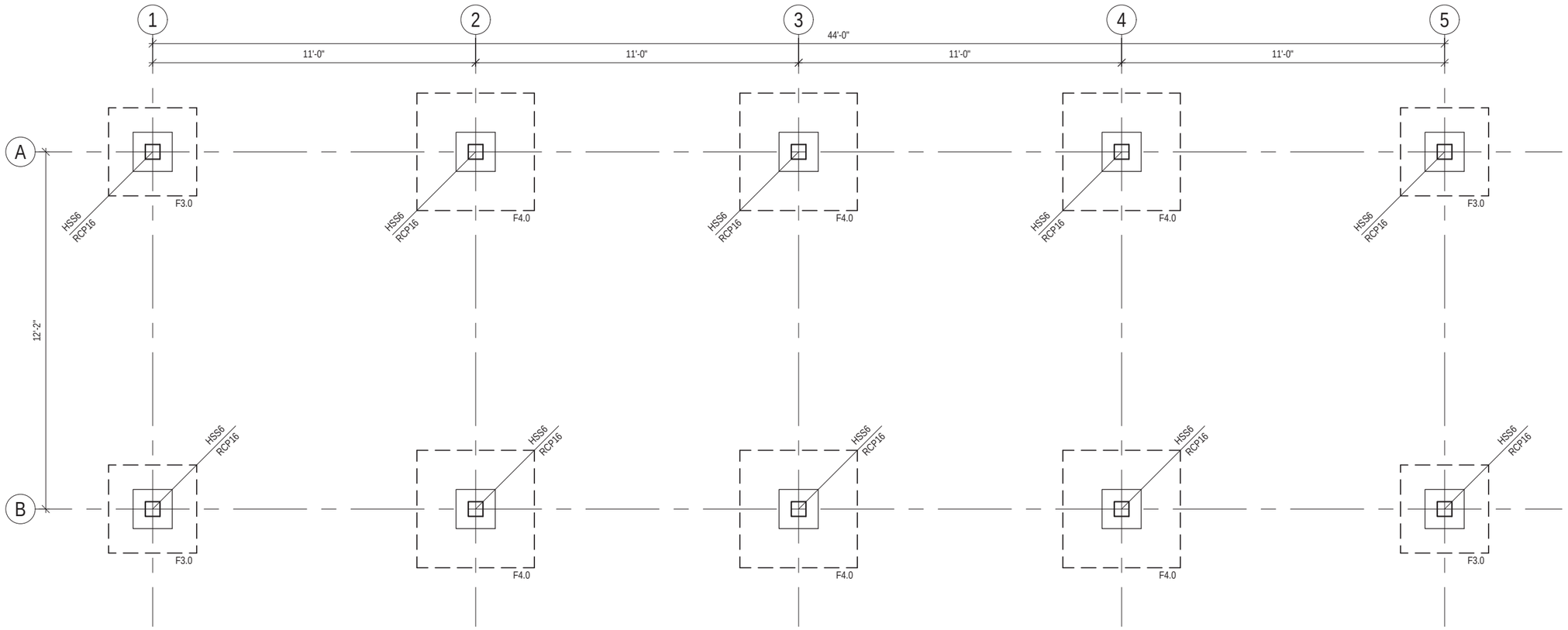
CITY SQUARE AND CHICAGO STREET IMPROVEMENTS

SMALL STAGE
SECTIONS AND DETAILS

SCALE: | SECTION NO. _____ | PROJECT NO. _____

DRAWING NO. S-7

SHEET NO. 193



1 FOUNDATION PLAN

SCALE = $\frac{1}{4}$" = 1'-0"

TOF: -3'-0"

LEGEND

HSS6	=	HSS6x6x$\frac{1}{4}$
RCP16	=	REINFORCED CONCRETE PIER 1'-4"x1'-4" REINFORCED W/ (4) #8 VERTICALS AND #4 TIES @ 12" O.C.

FOUNDATION SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	TOP REINFORCING	BOTTOM REINFORCING
F3.0	3'-0"	3'-0"	1'-0"	(3) #4 EW	(4) #5 EW
F4.0	4'-0"	4'-0"	1'-0"	(4) #4 EW	(5) #5 EW

DRAWN: ICM	REVISED BY	DATE	DESCRIPTION
CHECKED: GJH			
APPROVED: GJH			
DATE: 03/29/2024			

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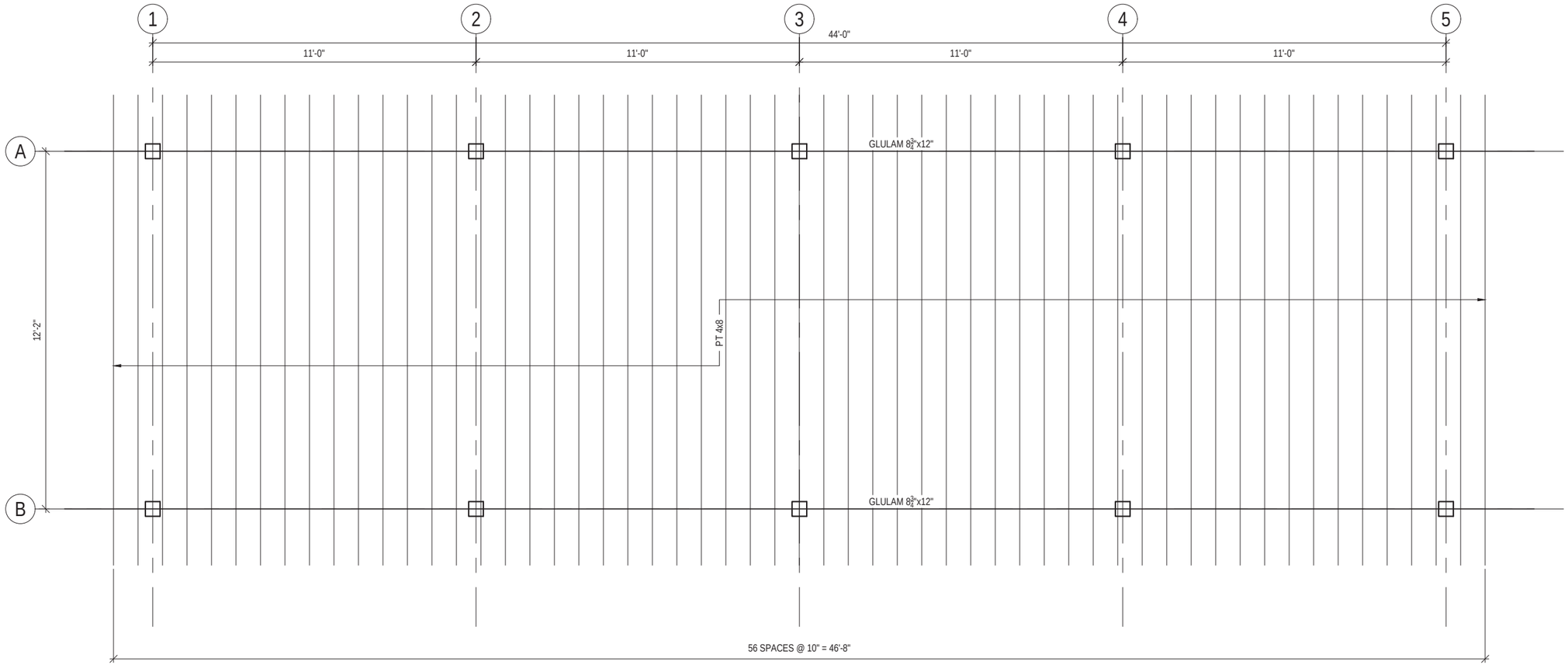
CITY SQUARE AND CHICAGO STREET IMPROVEMENTS

SHADE STRUCTURE FOUNDATION PLAN

SCALE: | SECTION NO. _____ | PROJECT NO. _____

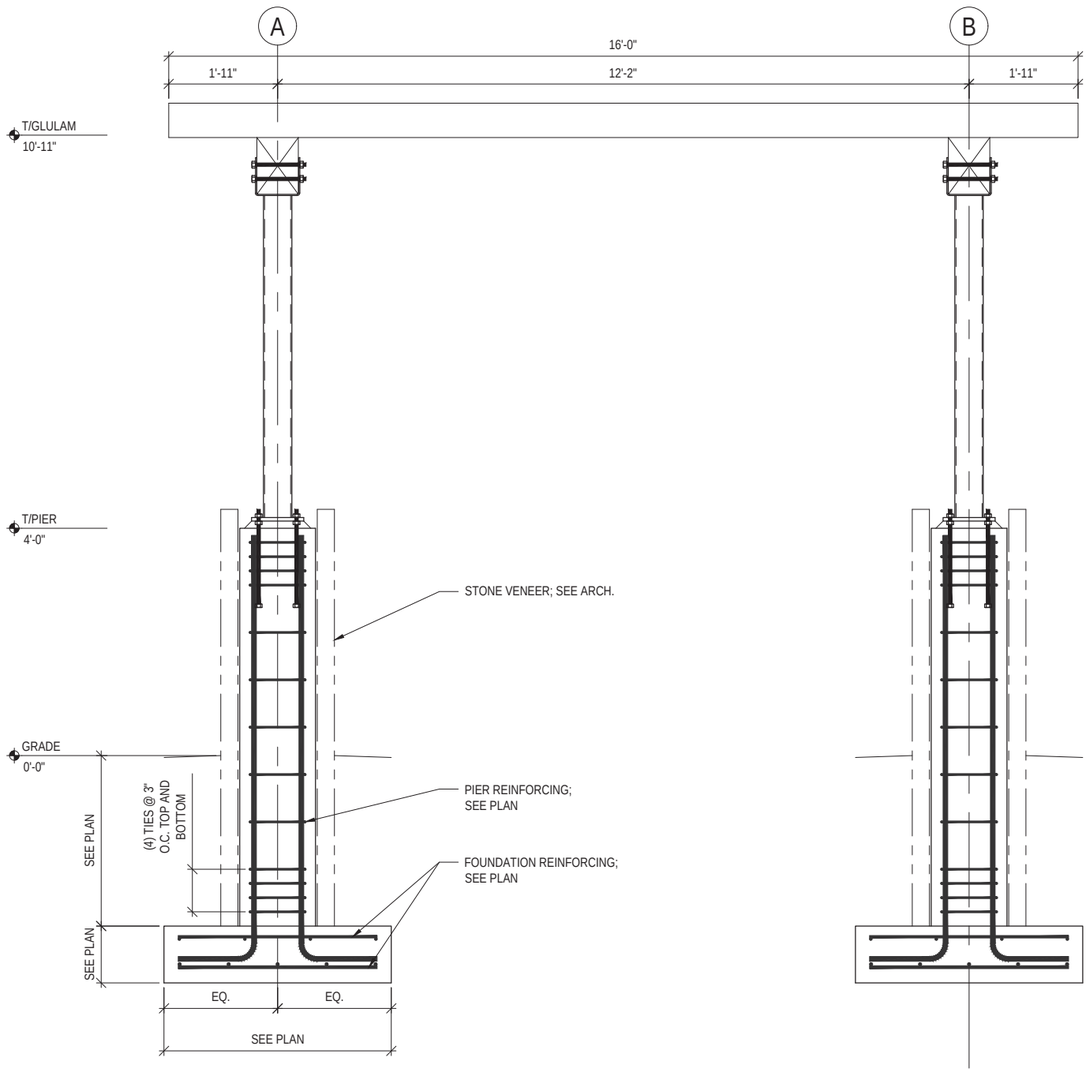
DRAWING NO. S-8

SHEET NO. 194

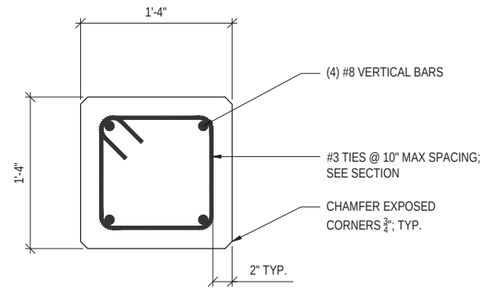


1 ROOF FRAMING PLAN
SCALE = 1/2" = 1'-0"

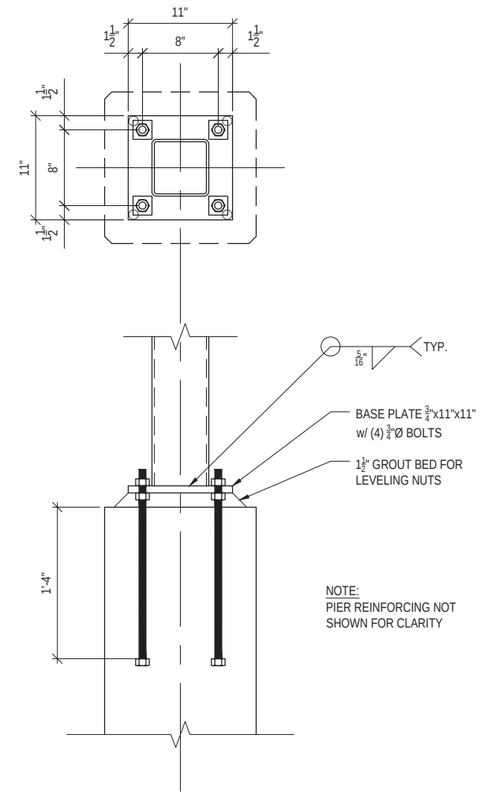
DRAWN: ICM	REVISED BY	DATE	DESCRIPTION	CIVILTECH 30 N LaSalle St, Suite 2624 - Chicago, Illinois 60602 Tel: 312.726.5910 - Fax: 312.726.5911 www.civiltechinc.com	CITY OF JOLIET	CITY SQUARE AND CHICAGO STREET IMPROVEMENTS	SHADE STRUCTURE ROOF FRAMING PLAN
CHECKED: GJH							SCALE: NTS / SECTION NO. _____ / PROJECT NO. _____
APPROVED: GJH							DRAWING NO. S-9
DATE: 03/29/2024							SHEET NO. 195



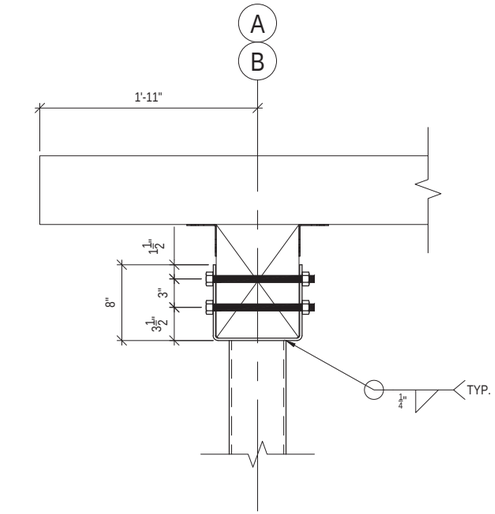
1 TYPICAL SECTION
SCALE = $\frac{3}{4}$" = 1'-0"

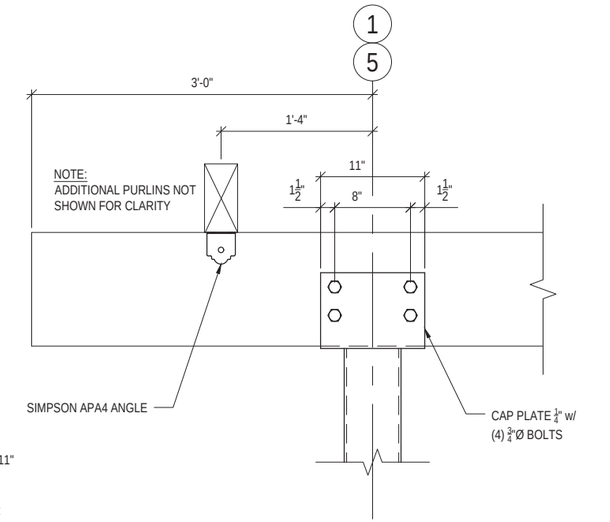


2 TYPICAL PIER SECTION
SCALE = $1\frac{1}{2}$" = 1'-0"



3 TYPICAL BASEPLATE SECTION
SCALE = $1\frac{1}{2}$" = 1'-0"





4 TYPICAL CAP PLATE CONNECTION DETAIL
SCALE = $1\frac{1}{2}$" = 1'-0"

DRAWN: ICM	REVISED BY	DATE	DESCRIPTION
CHECKED: GJH			
APPROVED: GJH			
DATE: 03/29/2024			

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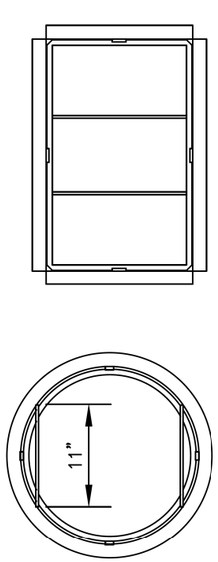
CITY SQUARE AND CHICAGO STREET IMPROVEMENTS

SHADE STRUCTURE SECTIONS AND DETAILS

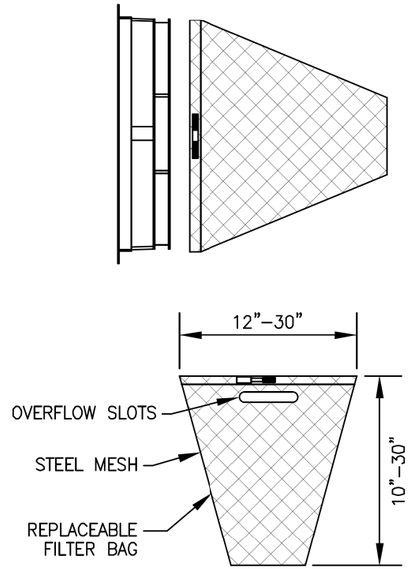
SCALE: | SECTION NO. _____ | PROJECT NO. _____

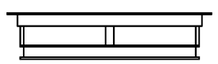
DRAWING NO. S-10

SHEET NO. 196



PLAN





SECTION

GENERAL NOTES:

FRAME: TOP RING CONSTRUCTED FROM 1 1/4" x 1 1/4" x 1/8" ANGLE. BASE RING CONSTRUCTED OF 1 1/2" x 1/2" x 1/8" CHANNEL. HANDLES & SUSPENSION BRACKETS CONSTRUCTED FROM 1/4" x 1 1/4" FLAT. ALL STEEL CONFORMING TO ASTM–A36.

REPLACEABLE BAG: CONSTRUCTED FROM 4 OZ./SQ. YD. NON–WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. CONNECTED TO BASE RING WITH STAINLESS STEEL STRAP & LOCK.

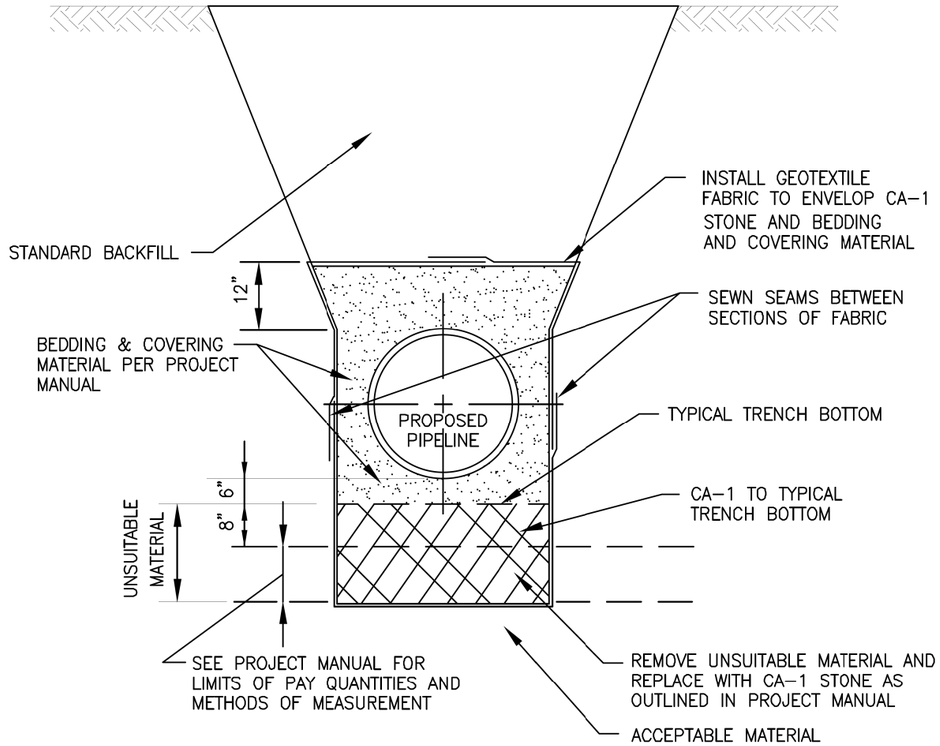
STEEL MESH: REMOVABLE STAINLESS STEEL MESH STRAINER BASKET. 1/4" DIA. HOLE SIZE, 58% OPEN AREA.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

INLET PROTECTION
FILTER DETAIL
GEN–02

DATE: OCT. 2017



NOT TO SCALE

CITY OF JOLIET, ILLINOIS
OPEN CUT PIPELINE
INSTALLATION UNSUITABLE
MATERIAL
REMOVAL/REPLACEMENT
GEN–03
DATE: OCT. 2017

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
FILE NAME = ...\36/?-sht-details01.dgn

CIVILTECH

USER NAME = nem	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

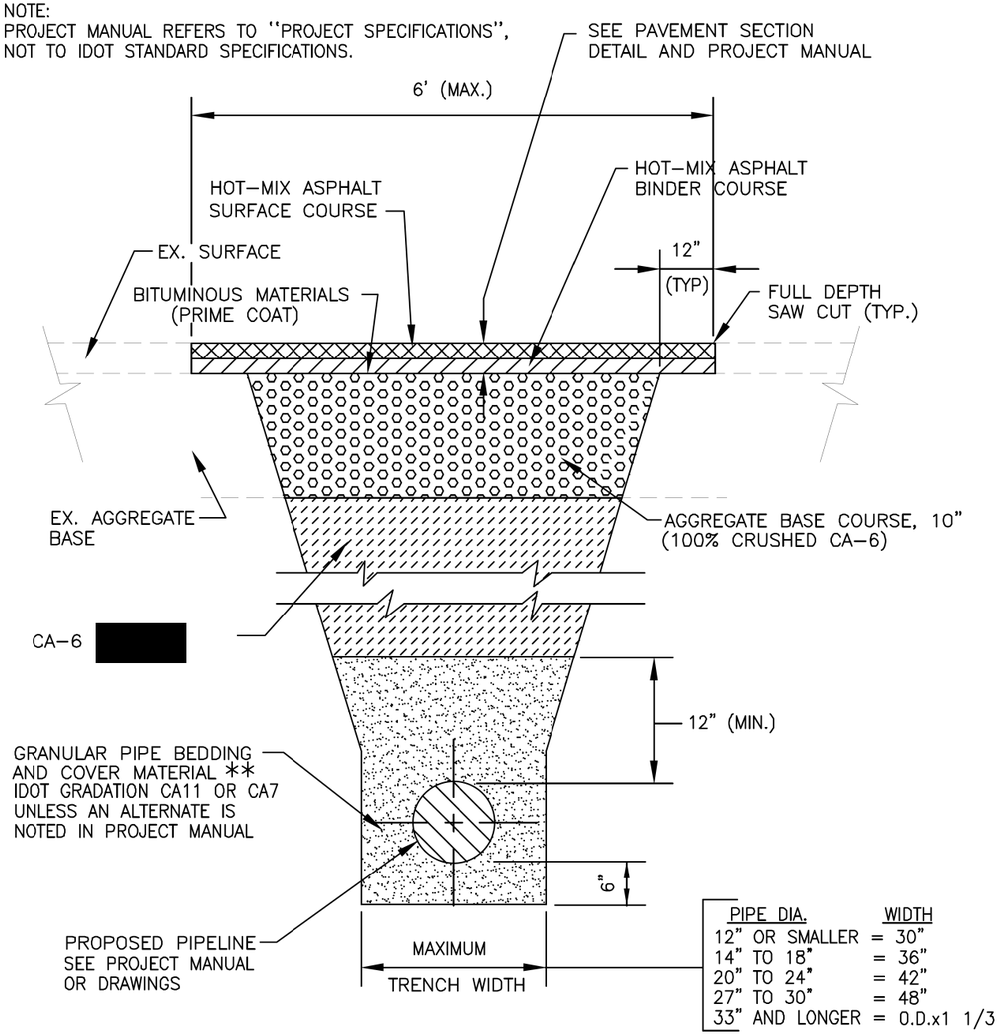
CITY OF JOLIET

CHICAGO STREET STREETSCAPE
CONSTRUCTION DETAILS

SCALE: | SHEET 1 OF 12 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	197
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

NOTE:
PROJECT MANUAL REFERS TO "PROJECT SPECIFICATIONS", NOT TO IDOT STANDARD SPECIFICATIONS.



PIPE DIA.	WIDTH
12" OR SMALLER	= 30"
14" TO 18"	= 36"
20" TO 24"	= 42"
27" TO 30"	= 48"
33" AND LONGER	= O.D.x1 1/3

NOT TO SCALE

FOR PAVEMENT WITH AGGREGATE BASE AND COMPACTED GRANULAR BACKFILL MATERIAL

** FOR FLEXIBLE THERMOPLASTIC PIPE COMPLY WITH ASTM D2321, CLASS IA, IB, OR II., (IDOT GRADATION CA15)

FOR RIGID PIPE COMPLY WITH ASTM C12, BEDDING CLASS B.

CITY OF JOLIET, ILLINOIS

TYPICAL TRENCH DETAIL
PAVEMENT AREA
AGGREGATE BASE
GEN-04
DATE: OCT. 2017

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBLL$
FILE NAME = ...\3679-sht-details02.dgn

CIVILTECH

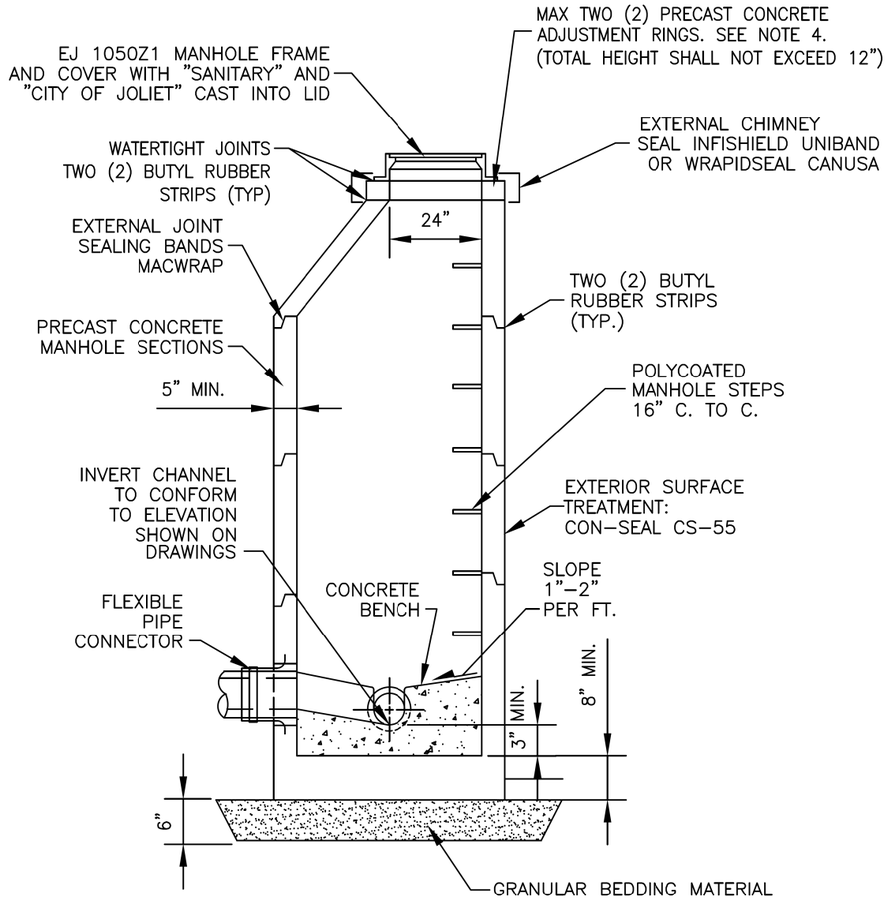
USER NAME = nem	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

CHICAGO STREET STREETSCAPE CONSTRUCTION DETAILS

SCALE: | SHEET 2 OF 12 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	198
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



NOTE:

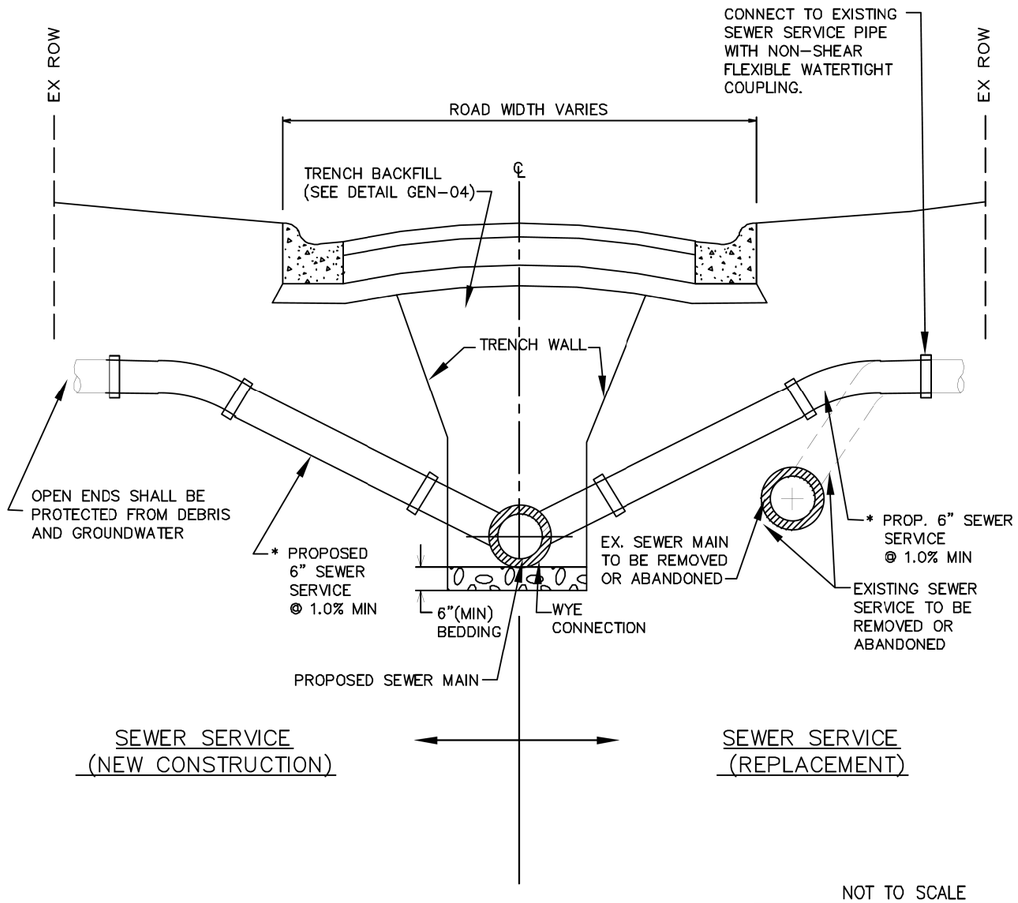
1. ECCENTRIC CONES REQUIRED, FLAT SLAB TOPS PERMITTED ONLY FOR MANHOLES TOO SHALLOW FOR CONES.
2. MANHOLE DIAMETER SHALL BE DETERMINED BY THE SEWER DEPTH, THE SEWER OUTSIDE DIAMETER, RELATIVE ANGLES OF SEWERS TO EACH OTHER, THE SIZE OF HOLES CORED/CAST FOR BOOTS, AND A MINIMUM OF 8" BETWEEN CORED/CAST HOLES. REFER TO DESIGN MANUAL.
3. ALL LIFT HOLES ARE TO BE GROUTED FROM THE INSIDE AND OUTSIDE BEFORE BACKFILLING.
4. FOR MANHOLES INSTALLED IN PAVEMENT, PROVIDE ONE RUBBER COMPOSITE ADJUSTMENT RING. EJ INFRA-RISER OR APPROVED EQUAL.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

SANITARY MANHOLE DETAIL
SAN-01

DATE: MARCH 2019



* SERVICE PIPE MATERIAL: PVC SDR 26, ASTM D2241

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

SANITARY SEWER SERVICE
SAN-02

DATE: OCT. 2017

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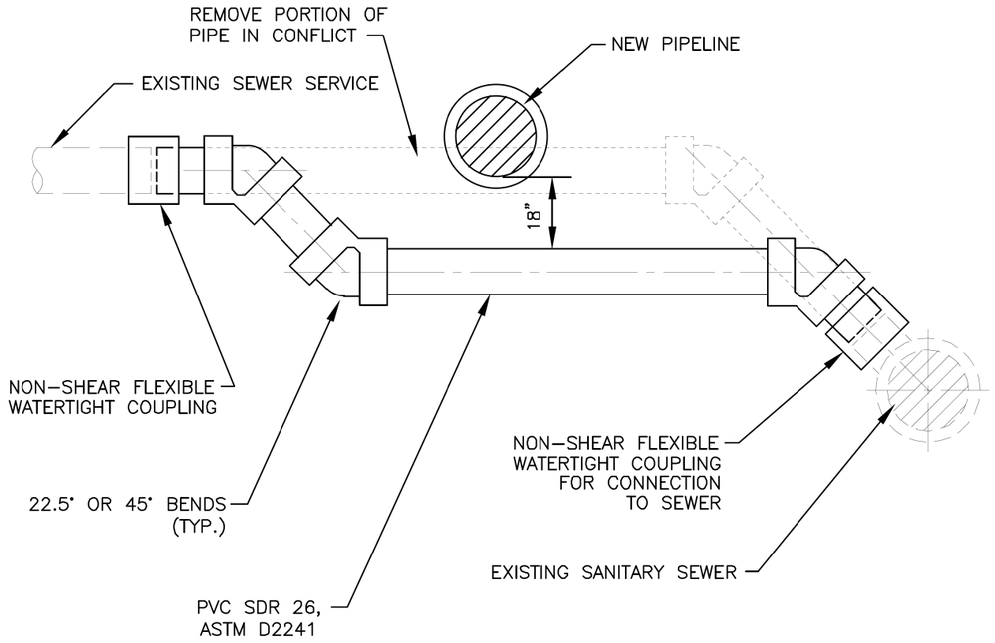
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

CHICAGO STREET STREETSCAPE CONSTRUCTION DETAILS

SCALE: | SHEET 3 OF 12 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	199
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

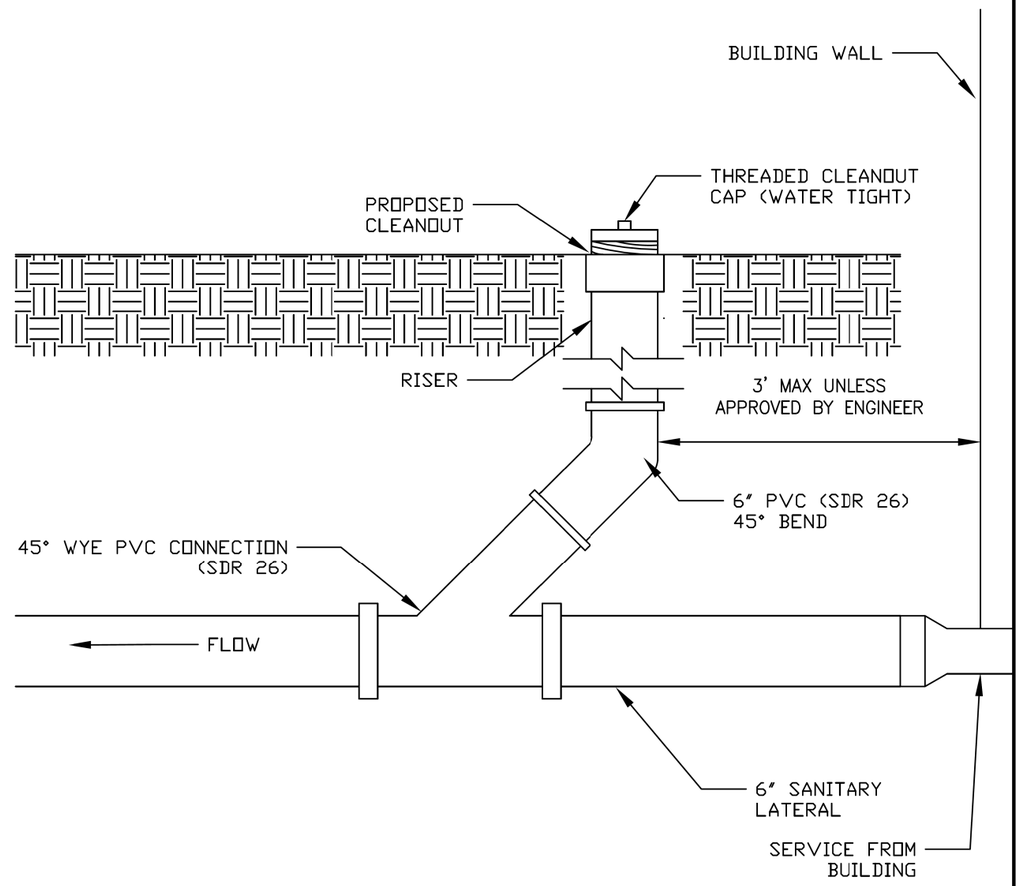


NOT TO SCALE

CITY OF JOLIET, ILLINOIS

SANITARY SEWER SERVICE
RELOCATION
SAN-03

DATE: OCT. 2017



NOTE;

1. PROPOSED CLEANOUT TO BE INSTALLED FLUSH TO THE EXISTING SURFACE.
2. CLEANOUT SHALL BE INSTALLED AS CLOSE TO BUILDING AS POSSIBLE
3. CONNECTIONS TO DISSIMILAR MATERIAL PIPES SHALL BE MADE WITH NON-SHEAR MISSION COUPLINGS WITH STAINLESS STEEL BANDS
4. CLEANOUTS IN PAVED AREAS SHALL BE INSTALLED WITH EAST JORDAN 1574 CAST IRON CLEANOUT. FRAME AND LID INSTALLED FLUSH WITH FINISHED SURFACE.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

SANITARY SERVICE
CLEANOUT DETAIL
SAN-13

DATE: NOVEMBER 2022

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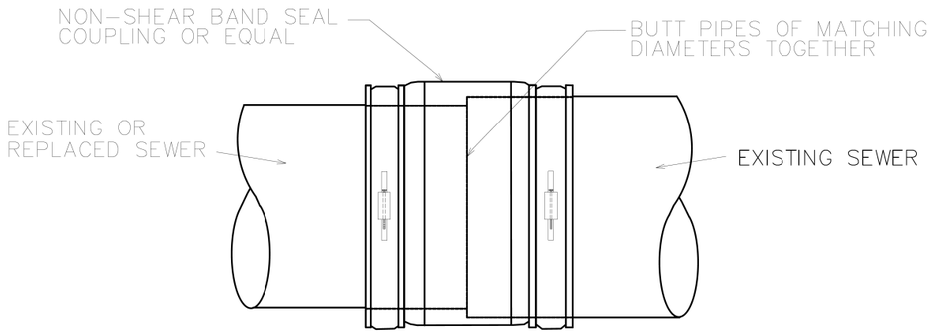
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CITY OF JOLIET

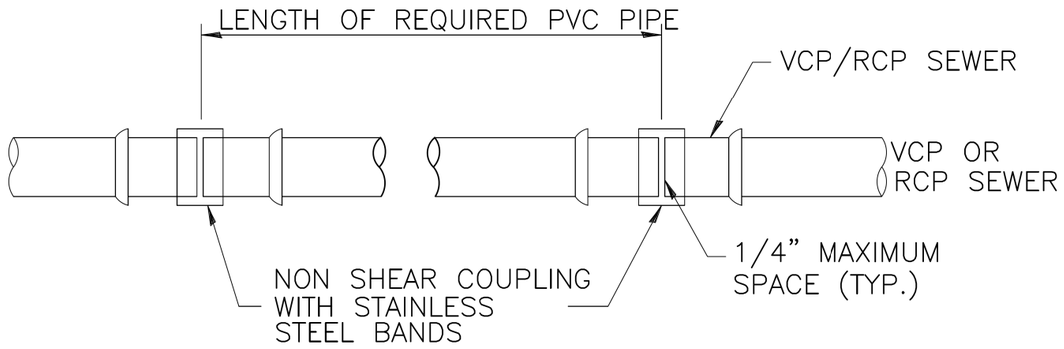
CHICAGO STREET STREETSCAPE
CONSTRUCTION DETAILS

SCALE: | SHEET 4 OF 12 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	200
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



PIPE COUPLING DETAIL



NOTES:

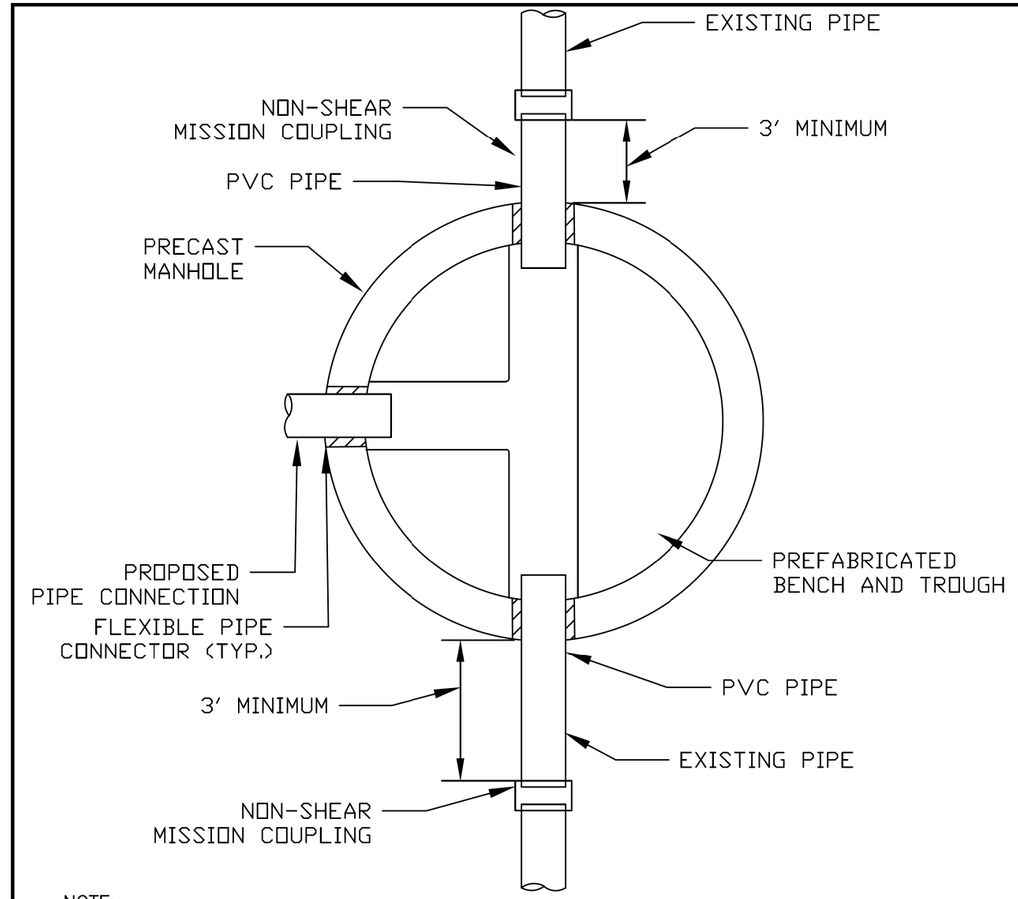
1. CONNECTION TO CIPP LINING SHALL BE NON-SHEAR COUPLINGS THAT ARE MADE SPECIFICALLY TO FIT THE OUTSIDE DIAMETER OF CURED-IN-PLACE PIPE (CIPP)

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

CONNECTING SEWER PIPES
OF DISSIMILAR MATERIAL
SAN-14

DATE: NOVEMBER 2022



NOTE:

1. MANHOLE INSTALLATION MUST CONFORM TO CITY OF JOLIET STANDARD MANHOLE DETAIL (SAN-01).
2. EXTERNAL DROP CONNECTION MUST BE PROVIDED IF INVERT OF CONNECTING SEWER IS 24" OR MORE ABOVE THE INVERT OF OUTLET.
3. DOGHOUSE MANHOLES WILL NOT BE ACCEPTED UNLESS APPROVED BY THE ENGINEER.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

NEW SANITARY MANHOLE ON
EXISTING SANITARY MAIN
DETAIL
SAN-17
DATE: NOVEMBER 2022

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PEN TABLE = $PENTBL$
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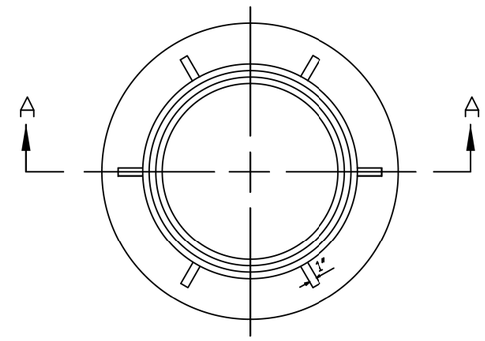
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

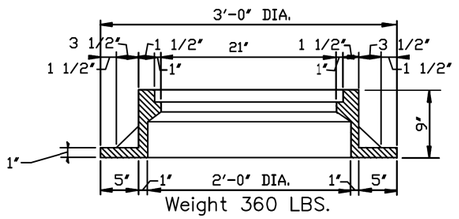
CHICAGO STREET STREETSCAPE
CONSTRUCTION DETAILS

SCALE: | SHEET 5 OF 12 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	201
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



PLAN

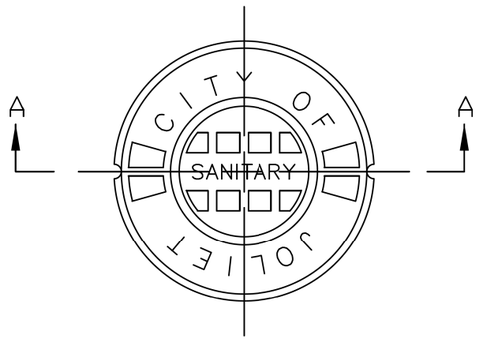


Weight 360 LBS.

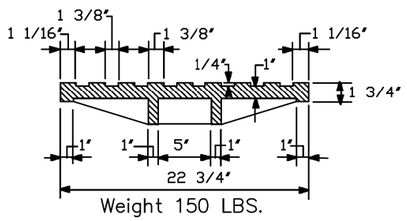
Section A-A

Plan - Manhole

No Scale



PLAN



Weight 150 LBS.

Section A-A

Standard Closed Lid

No Scale

Sanitary Sewer:

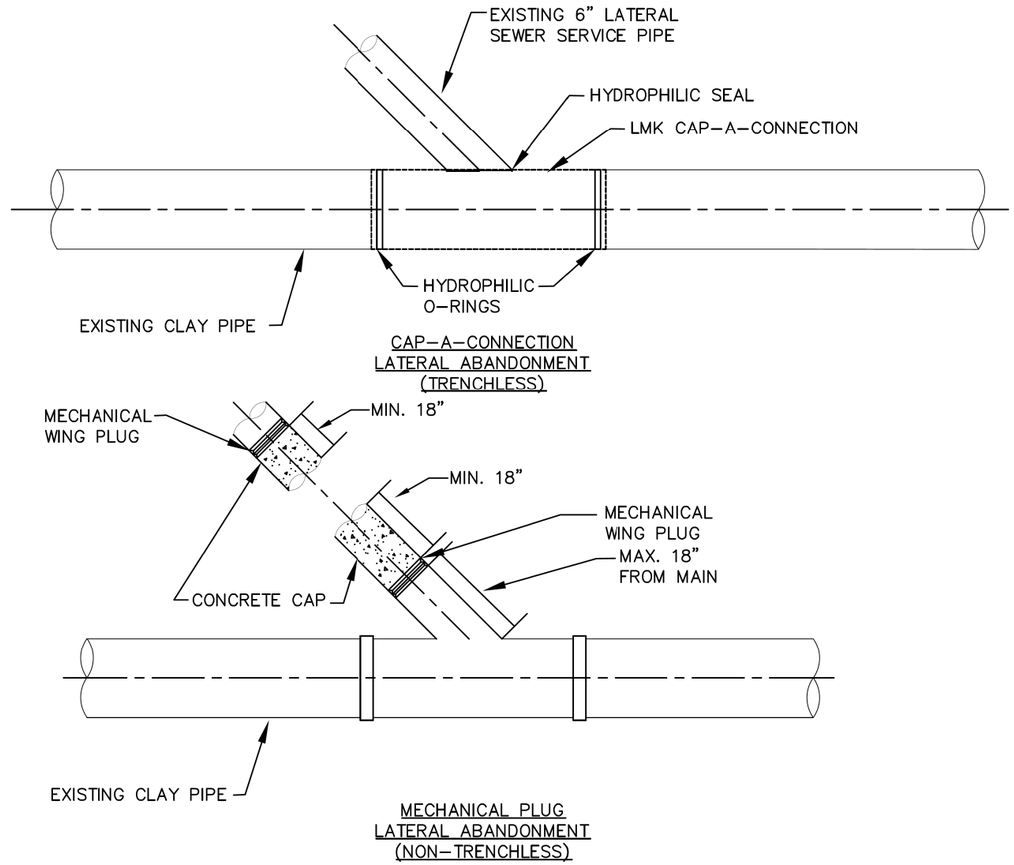
East Jordan 1020 AGS cover and 1050Z1 frame W/Watertight Lid

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

FRAME AND COVER CASTING
SAN-19

DATE: NOVEMBER 2022



CAP-A-CONNECTION
LATERAL ABANDONMENT
(TRENCHLESS)

MECHANICAL PLUG
LATERAL ABANDONMENT
(NON-TRENCHLESS)

NOTE:

1. TRENCHLESS ABANDONMENT OF SANITARY LATERALS SHALL TAKE PRIORITY OVER NON-TRENCHLESS ABANDONMENT UNLESS AS DIRECTED BY THE ENGINEER.
2. ABANDONMENT OF THE SERVICE MUST OCCUR AT THE SANITARY MAIN UNLESS OTHERWISE APPROVED BY THE ENGINEER

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

ABANDON SERVICE
CONNECTION - TRENCHLESS
& NON-TRENCHLESS
SAN-21
DATE: NOVEMBER 2022

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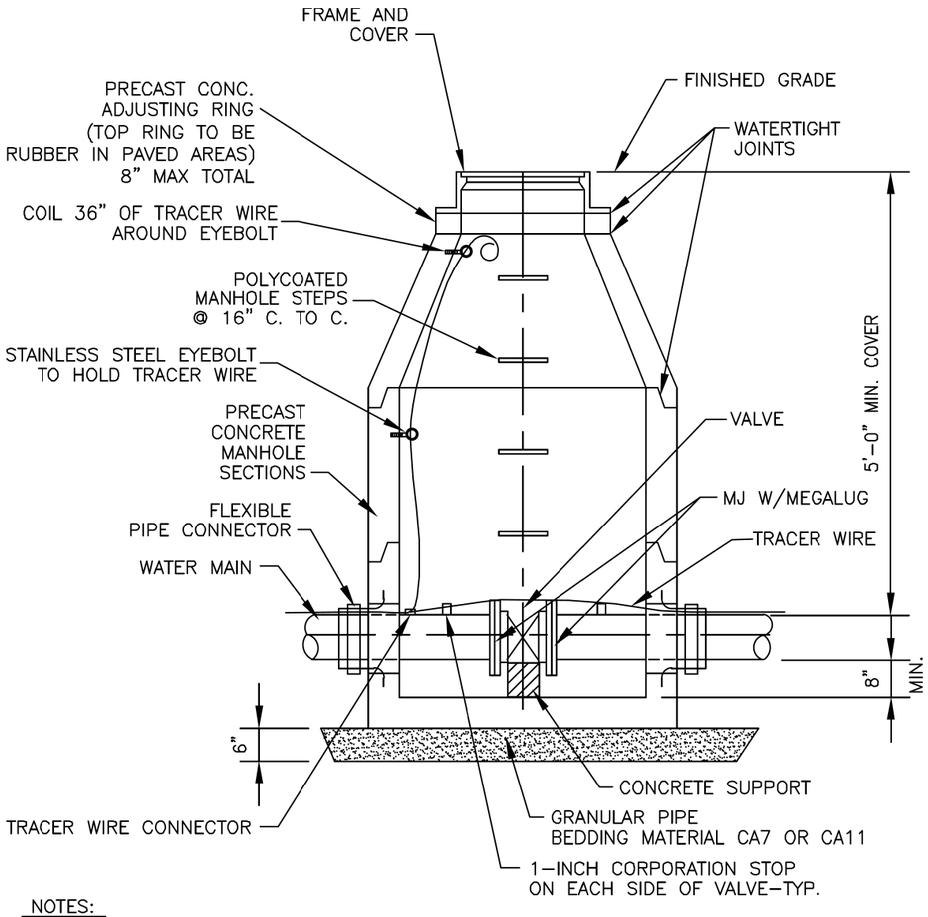
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

CHICAGO STREET STREETSCAPE
CONSTRUCTION DETAILS

SCALE: | SHEET 6 OF 12 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	202
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



NOTES:

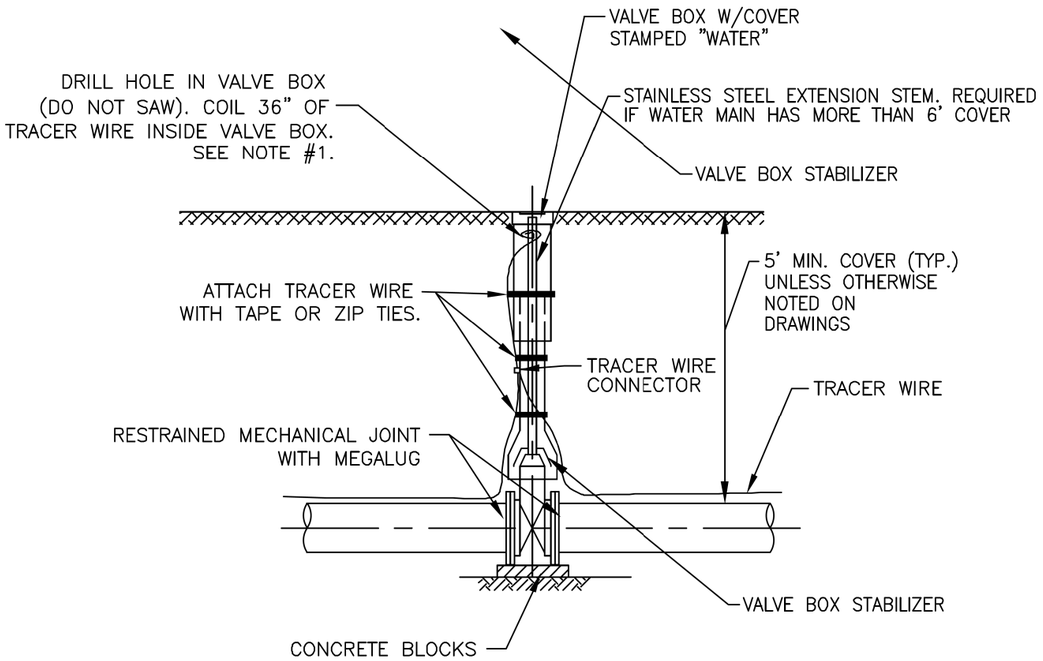
1. CONCENTRIC CONE REQUIRED FOR GATE VALVES, ECCENTRIC CONE REQUIRED FOR BUTTERFLY VALVES.
2. USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 10", 5'-0" FOR SIZES 12" OR GREATER
3. PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET" AND "WATER". EJ 1050Z1 OR NEENAH R170
4. ATTACH TRACER WIRE TO MAINTAIN MIN. 24" AWAY FROM STEPS

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE VAULT DETAIL
WTR-01

DATE: NOVEMBER. 2022



NOTES:

1. ATTACH TRACER WIRE TO OUTSIDE OF VALVE BOX USING TAPE OR ZIP TIES. DRILL 5/8" DIA. HOLE IN VALVE BOX 6" FROM TOP OF VALVE BOX.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE BOX DETAIL
WTR-02

DATE: NOVEMBER 2022

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PEN TABLE = $PENTBL$
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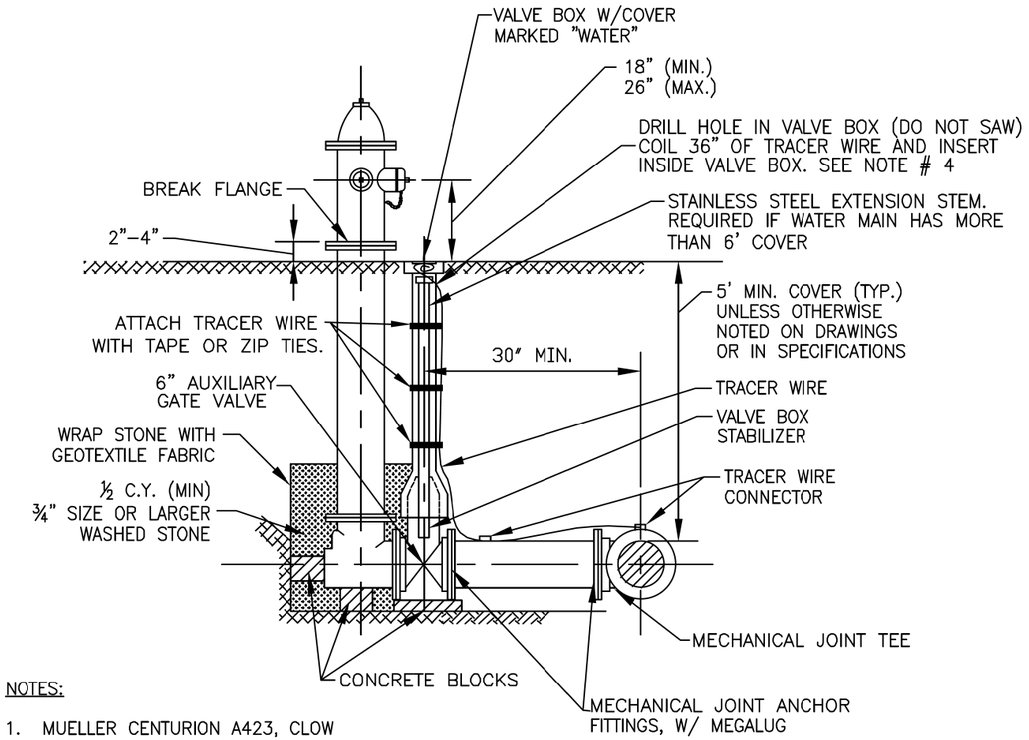
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

CHICAGO STREET STREETSCAPE CONSTRUCTION DETAILS

SCALE: | SHEET 7 OF 12 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	203
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



NOTES:

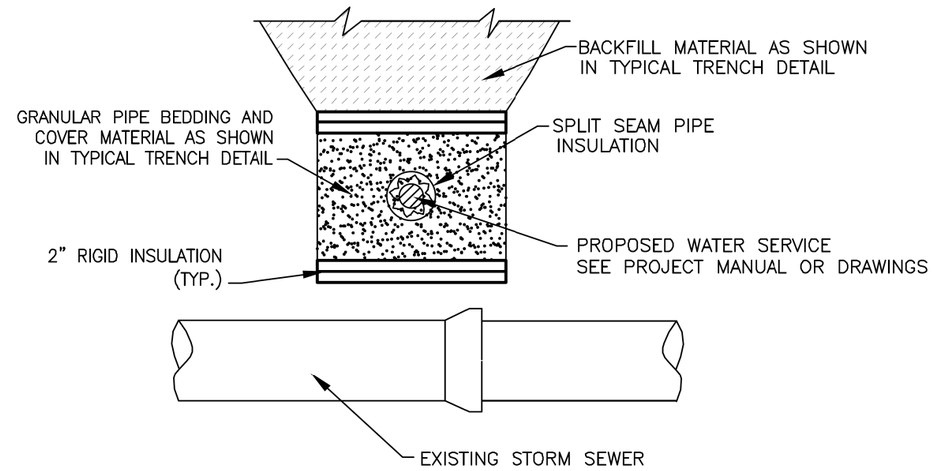
1. MUELLER CENTURION A423, CLOW MEDALLION OR E.J. 5BR250 (RED FOR MUNICIPAL TREATED WATER, GREEN FOR RAW WATER, YELLOW FOR PRIVATE HYDRANTS)
2. HYDRANTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND THE BACK OF CURB IN LOCATIONS SHOWN ON THE DRAWINGS
3. USE SWIVEL TEE AS CALLED OUT ON PLANS. 30" MINIMUM SEPARATION DOES NOT APPLY WHEN USING SWIVEL TEES.
4. ATTACH TRACER WIRE TO OUTSIDE OF VALVE BOX USING TAPE OR ZIP TIES. DRILL ⅝" DIA. HOLE IN VALVE BOX 6" FROM TOP OF VALVE BOX.

NOT TO SCALE

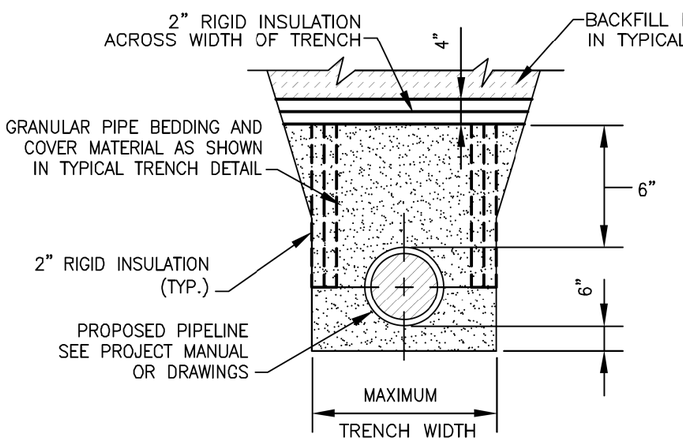
CITY OF JOLIET, ILLINOIS

FIRE HYDRANT
DETAIL
WTR-03

DATE: NOVEMBER 2022



WATER SERVICE



WATER MAIN

NOTES:

1. TO BE USED WHEN WATER MAIN AND / OR WATER SERVICE BURY DEPTH IS < 4' OR WHEN WATER SERVICE CROSSES ABOVE STORM SEWER.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

PIPE INSULATION
DETAIL
WTR-04

DATE: OCT. 2017

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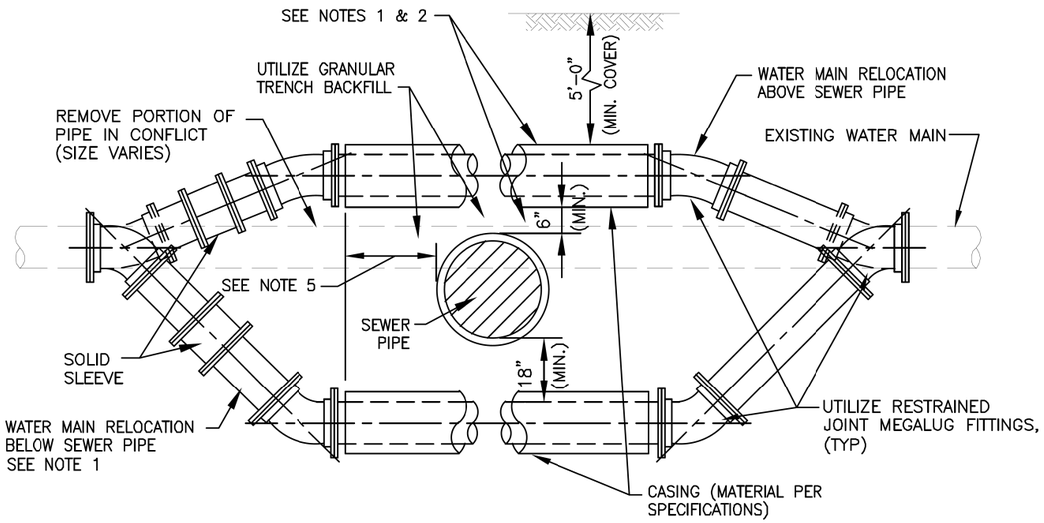
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	PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

CHICAGO STREET STREETSCAPE
CONSTRUCTION DETAILS

SCALE: | SHEET 8 OF 12 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	204
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



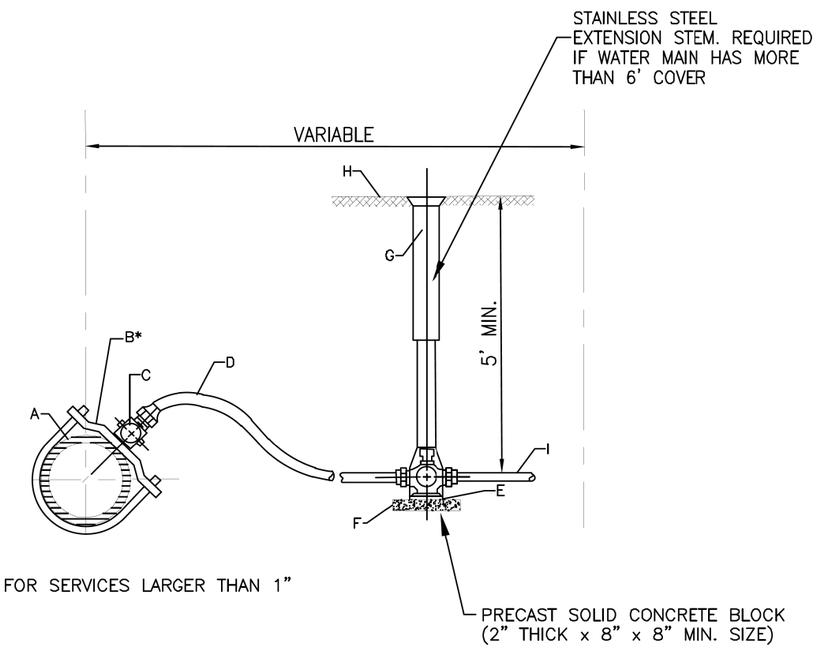
NOTES:
1. ONLY TO BE USED IF WATER MAIN CANNOT CROSS ABOVE PROPOSED SEWER AND MAINTAIN THE REQUIRED 18" OF SEPARATION AS SHOWN ON DRAWING, OR APPROVED BY ENGINEER IN FIELD.
2. WHEN WATER MAIN CROSSES ABOVE SEWER AND MAINTAINS THE REQUIRED 18" OF SEPARATION, THE CASING PIPE IS NOT REQUIRED.
3. WATER MAIN RELOCATIONS ARE SUBJECT TO INSPECTION AT NORMAL SYSTEM PRESSURE BEFORE BURIAL.
4. USE ONLY 45 DEGREE BENDS UNLESS OTHERWISE PERMITTED BY THE ENGINEER.
5. CASING MUST EXTEND A MINIMUM OF 10 FEET BEYOND OUTSIDE EDGE OF SEWER PIPE – ON BOTH SIDES OF SEWER.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER MAIN RELOCATION DETAIL
WTR–05

DATE: OCT. 2017



*REQUIRED FOR SERVICES LARGER THAN 1"

CONSTRUCTION NOTES

A. WATER MAIN
B. DUCTILE IRON, EPOXY COATED BODIES WITH DOUBLE ALLOY STEEL STRAPS AND DOUBLE BOLTS (FOUR BOLTS TOTAL). MUELLER DR2A SERIES OR EQUAL
C. CORPORATION STOP, A.Y. MCDONALD 74701 BQ
D. SERVICE PIPE, SEAMLESS SOFT TEMPERED COPPER TYPE – TYPE "K" 1" OR LARGER
E. CURB STOP, A.Y. MCDONALD 76104Q
F. CONCRETE BRICK SUPPORT
G. TYLER 6500 WITH BBAF VALVE BOX STABILIZER OR APPROVED EQUAL
H. FINISHED GRADE
I. CONNECT TO EXISTING SERVICE, PROVIDE ADAPTERS AS REQUIRED

NOTE: FOR 1 1/2" OR 2" SERVICE, ADD ENLARGED BASE FOR SERVICE BOX.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER SERVICE CONNECTION DETAIL
WTR–06

DATE: OCT. 2017

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PEN TABLE = $PENTBL$
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CIVILTECH

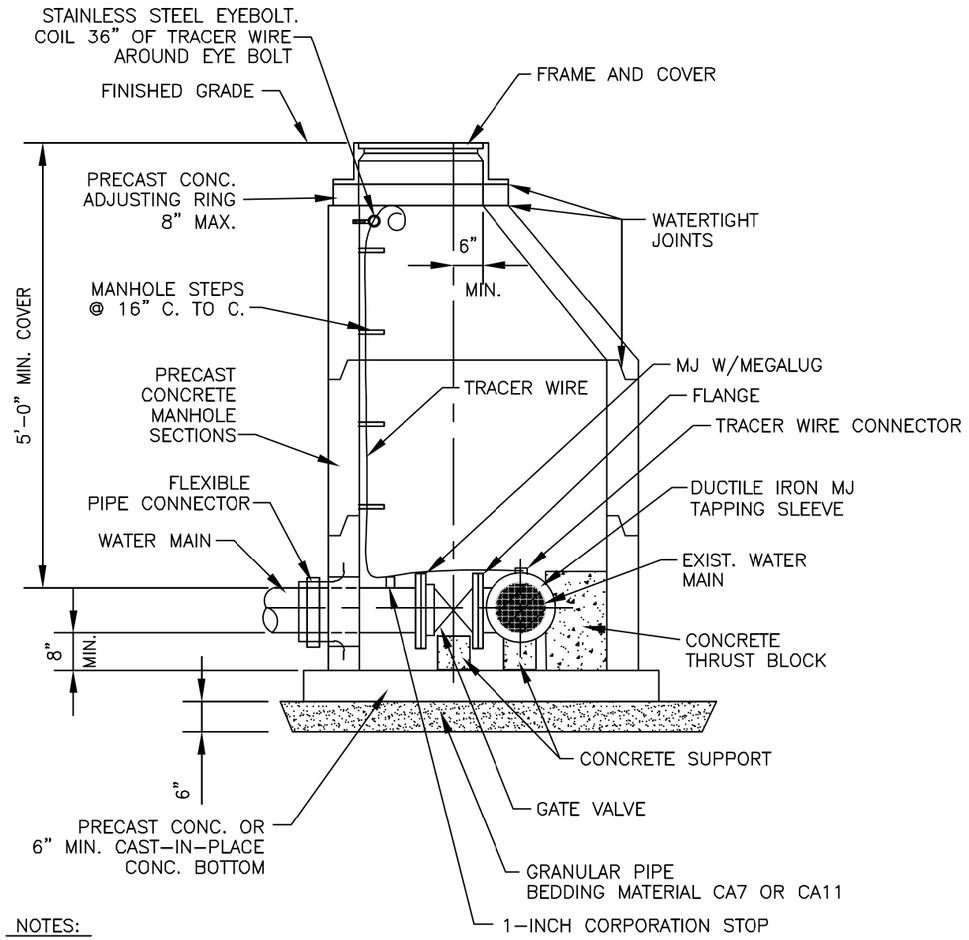
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

CHICAGO STREET STREETSCAPE
CONSTRUCTION DETAILS

SCALE: | SHEET 9 OF 12 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	205
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	



NOTES:

1. ECCENTRIC CONE REQUIRED
2. USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 8", USE 5'-0" DIAMETER FOR WATER MAIN SIZES 10" THRU 14", USE 6'-0" DIAMETER (OR LARGER PER DESIGNER) FOR WATER MAIN SIZES 16" OR GREATER.
3. PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET" AND "WATER". EJ 1050Z1
4. ATTACH TRACER WIRE TO MAINTAIN MIN. 24" AWAY FROM STEPS.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

PRESSURE CONNECTION DETAIL
WTR-07

DATE: NOVEMBER 2022

DUCTILE IRON-RESTRAINT JOINT TYPE PIPE LENGTH (FEET)

FITTING TYPE	DIAMETER (IN)					
	4"	6"	8"	10"	12"	16"
HORIZONTAL BEND						
11.25°	5	5	5	5	5	5
22.5°	5	5	5	5	10	10
45°	5	10	10	10	15	15
90°	15	20	20	25	30	40
VERTICAL BEND						
45°	20	25	35	40	45	60
TEE	5	5	5	5	5	5
VALVE (OPERATING PRESSURE)	20	30	35	45	50	65
VALVE (TESTING PRESSURE)	40	60	75	90	105	135
REDUCER						
6" NOMINAL PIPE	30	–	–	–	–	–
8" NOMINAL PIPE	55	35	–	–	–	–
10" NOMINAL PIPE	75	55	30	–	–	–
12" NOMINAL PIPE	90	80	55	35	–	–
16" NOMINAL PIPE	125	115	100	80	60	–

NOTE:
RJT LENGTHS MAY VARY DEPENDING ON SITE CONDITIONS. LENGTHS SHOWN ARE MINIMUM PER 5' BURRY DEPTH OF WATER MAIN AND, AGGREGATE PIPE BACKFILL.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

POLYWRAPPED DI RJT DETAIL

WTR-09

DATE: NOVEMBER 2022

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PEN TABLE = $PENTBL$
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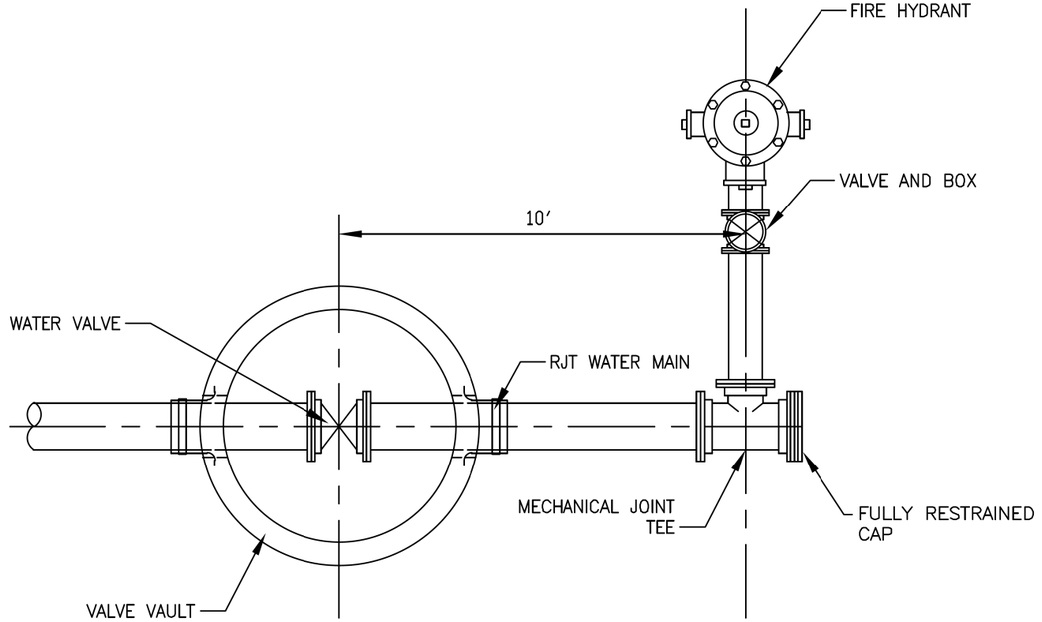
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

CHICAGO STREET STREETSCAPE
CONSTRUCTION DETAILS

SCALE: | SHEET 10 OF 12 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	206
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	



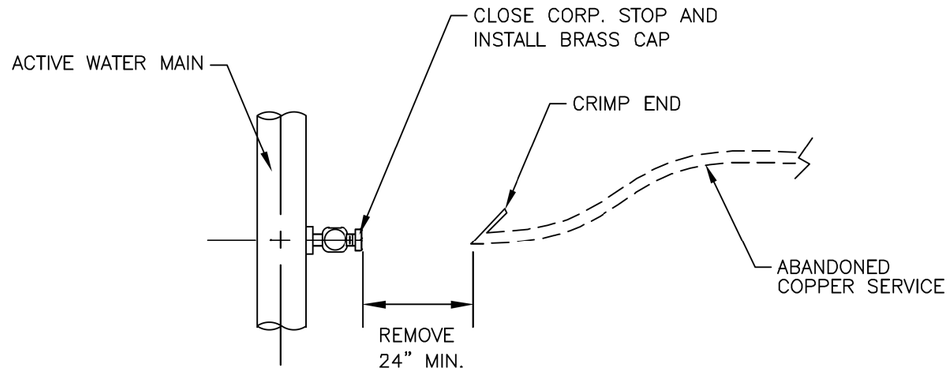
PLAN

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER MAIN TERMINATION
DETAIL
WTR–12

DATE: NOVEMBER 2022



NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER SERVICE ABANDONMENT
COPPER PIPE
DETAIL
WTR–13
DATE: NOVEMBER 2022

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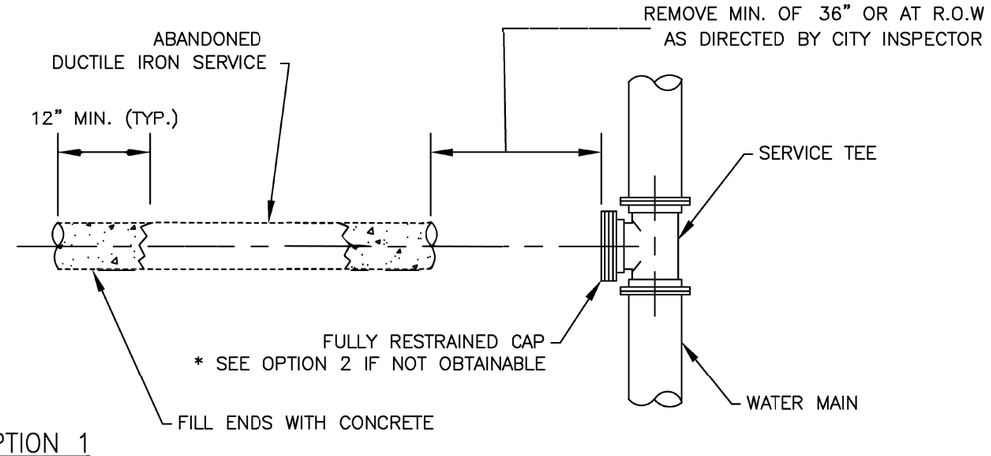
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PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

CHICAGO STREET STREETSCAPE
CONSTRUCTION DETAILS

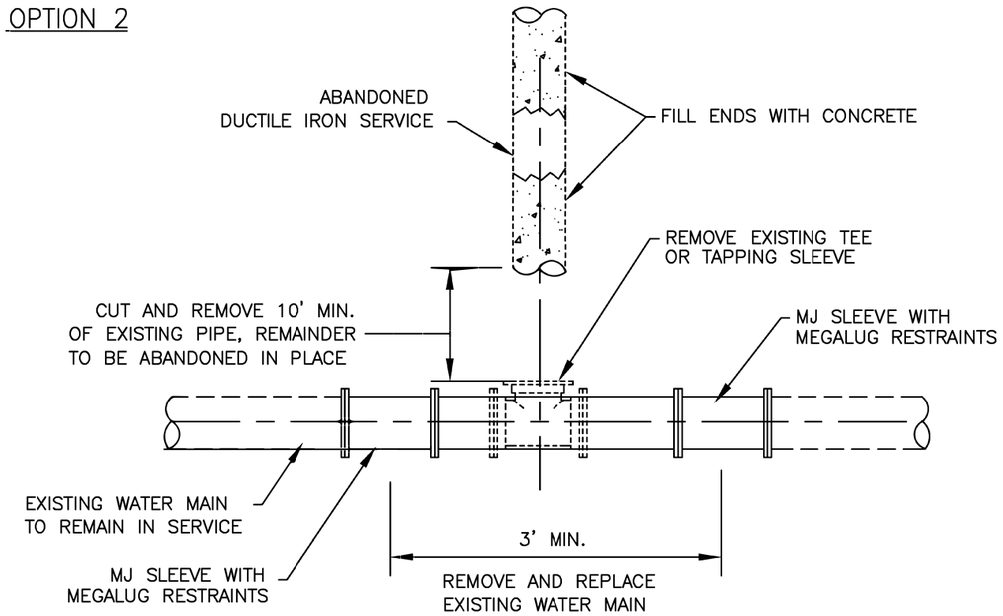
SCALE: | SHEET 11 OF 12 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	207
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



OPTION 1

OPTION 2



NOT TO SCALE

NOTES:

1. IF EXISTING SERVICE TEE CANNOT BE PROPERLY CAPPED AS SHOWN IN OPTION 1, TEE WILL BE REMOVED AND WATER MAIN REPLACED AS INDICATED BY OPTION 2.

CITY OF JOLIET, ILLINOIS

WATER SERVICE ABANDONMENT
DUCTILE IRON PIPE
DETAIL
WTR-14
DATE: NOVEMBER 2022

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBL$
FILE NAME = ...\3679-snt-details12.dgn

CIVILTECH

USER NAME = nem	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

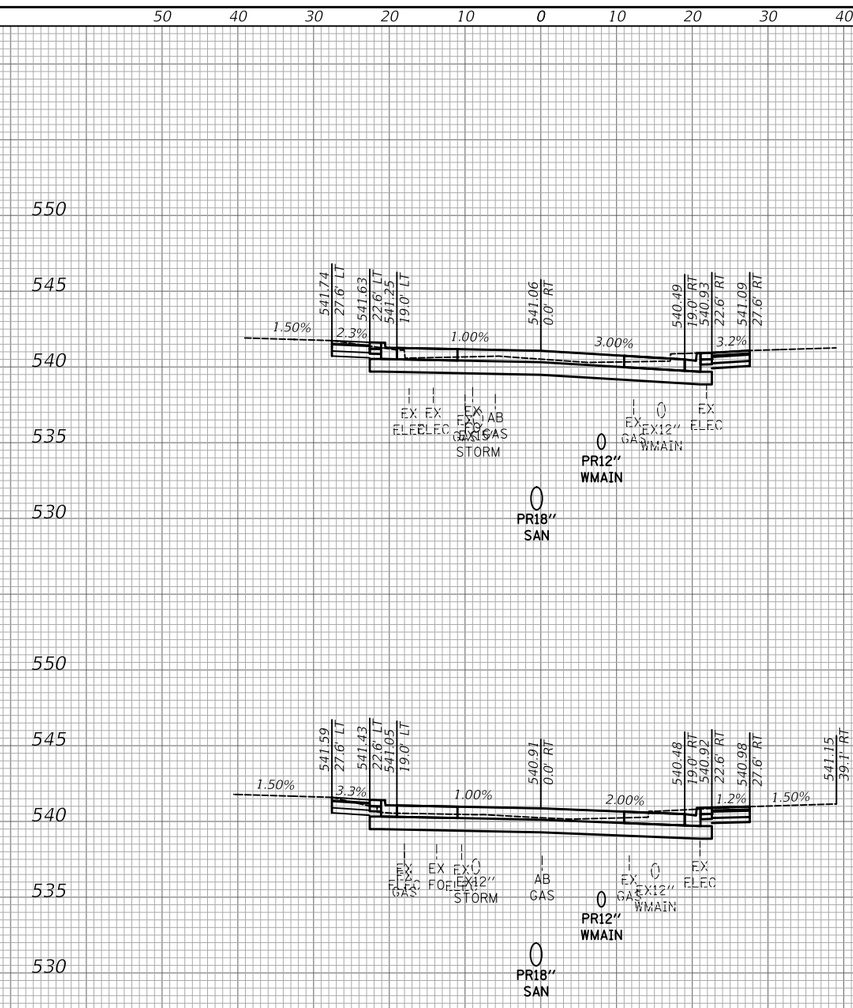
CITY OF JOLIET

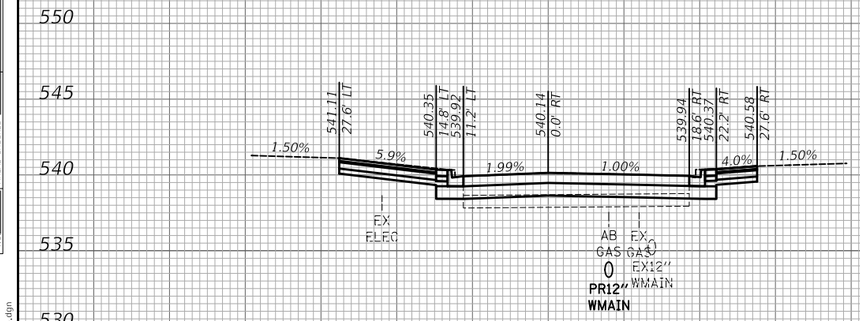
CHICAGO STREET STREETSCAPE
CONSTRUCTION DETAILS

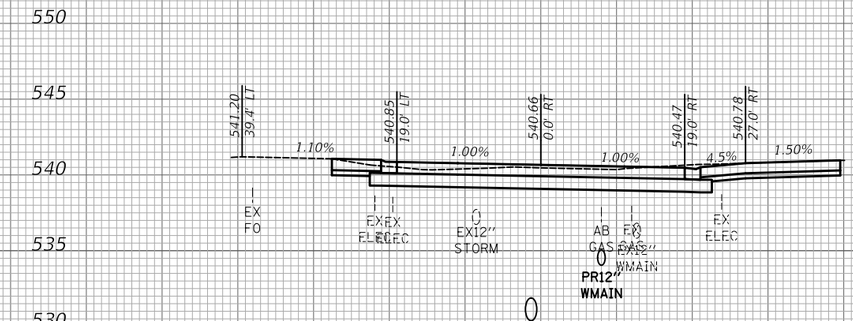
SCALE: | SHEET 12 OF 12 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	208
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		









CIVILTECH	USER NAME = nem	DESIGNED - NEM	REVISED -
		DRAWN - NEM	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -
	PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

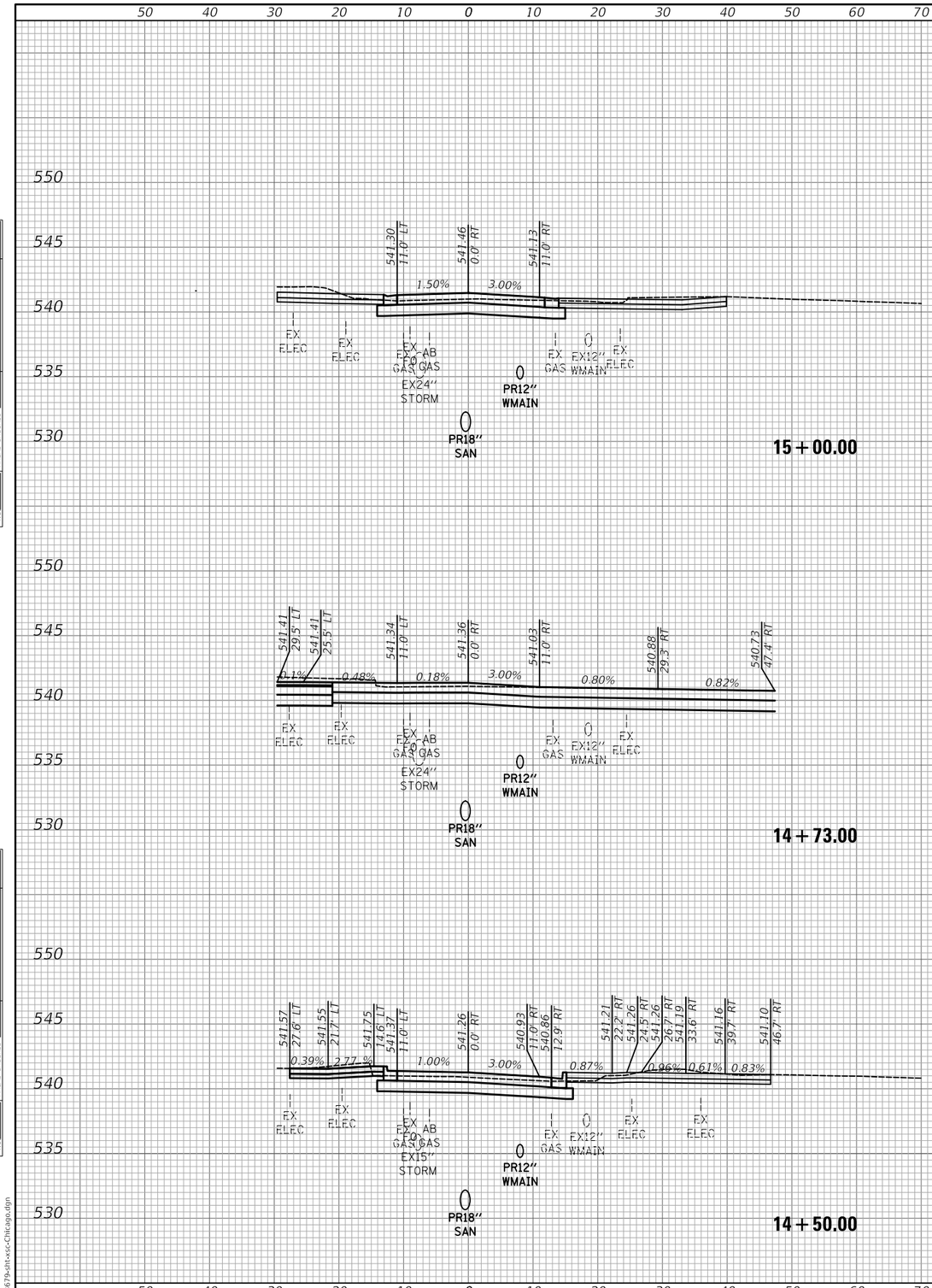
CHICAGO STREET
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 11+69.45 | TO STA. 14+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	209
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY / ORIGINAL SURVEY
NOTE BOOK
NO.
BY
DATE
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

PLOT DRIVER = $PLTDRVLS
PEN TABLE = $PENTBLLS
FILE NAME = ...\3679-sht-xsc-Chicago.dgn



	DATE	BY	
			SURVEYED
			PLOTTED
			TEMPLATE
			AREAS
NOTE BOOK			AREAS CHECKED
NO.			

FINAL SURVEY

	DATE	BY	
			SURVEYED
			PLOTTED
			TEMPLATE
			AREAS
NOTE BOOK			AREAS CHECKED
NO.			

ORIGINAL SURVEY

PLOT DRIVER = $PLTDRVLS
PEN TABLE = $PENTBLLS
FILE NAME = ...\3679-sht-xsc-Chicago.dgn

CIVILTECH

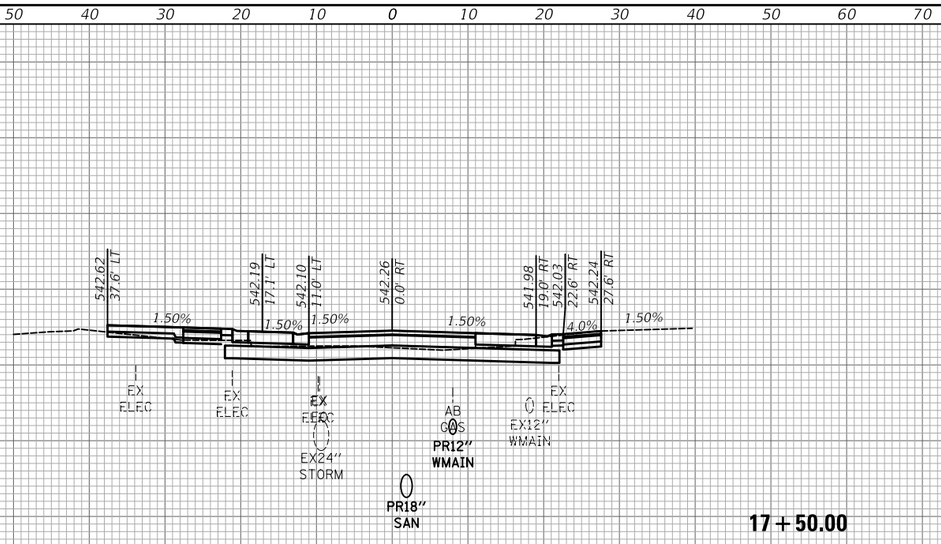
USER NAME = nem	DESIGNED - NEM	REVISED -
	DRAWN - NEM	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

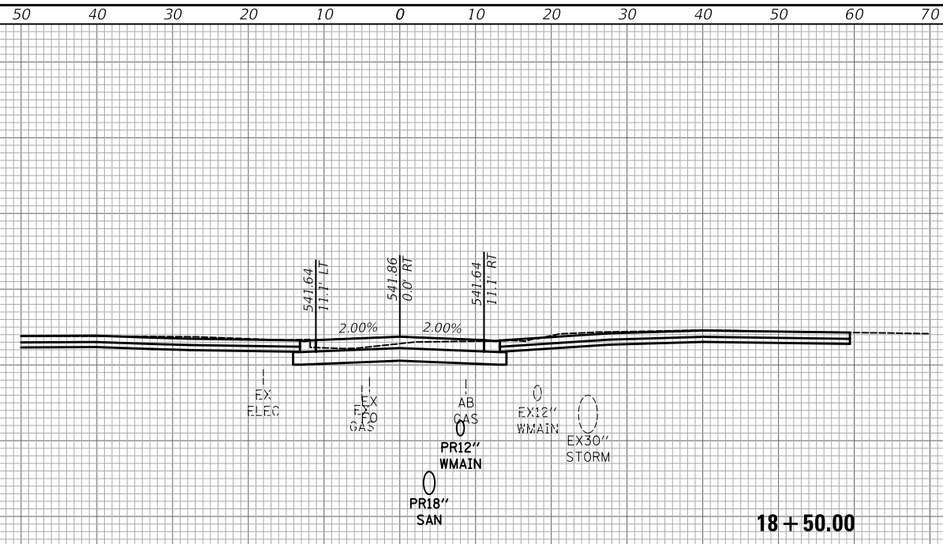
CITY OF JOLIET

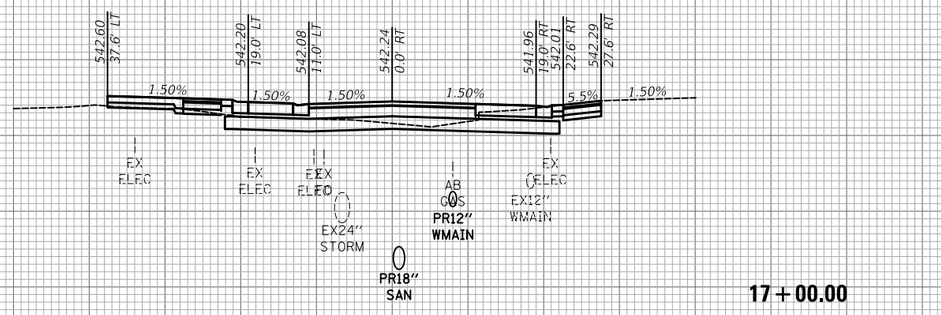
CHICAGO STREET
CROSS SECTIONS

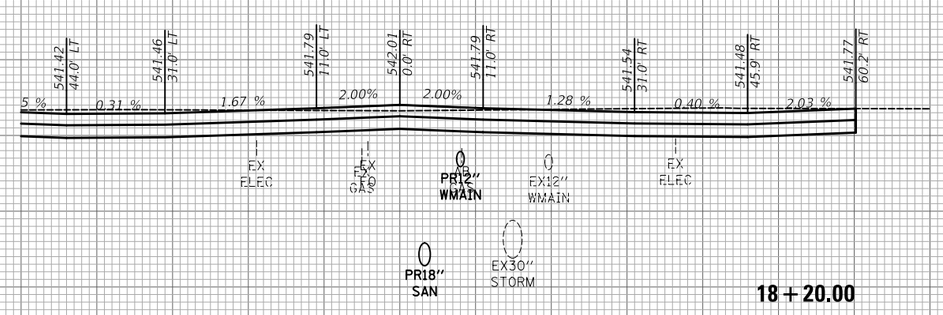
SCALE: | SHEET OF SHEETS | STA. 14+50.00 | TO STA. 16+45.00

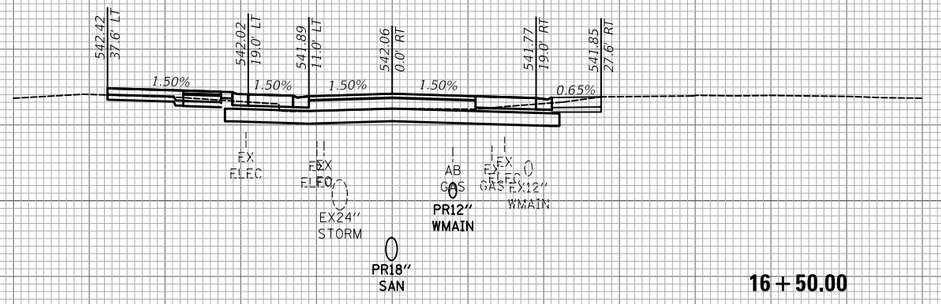
F.A. RTE.	SFA	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1			WILL	224	210
			CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT		

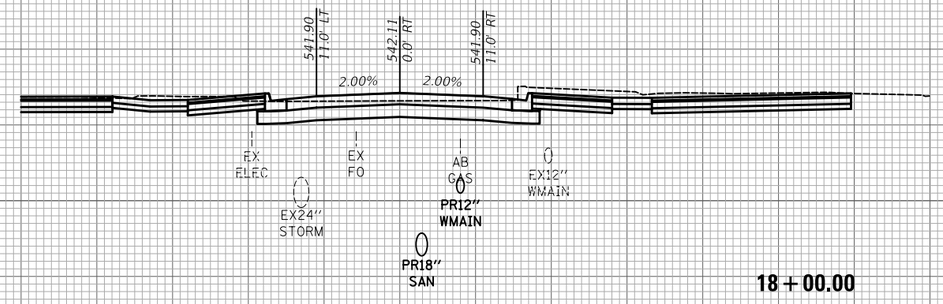












CIVILTECH	USER NAME = nem	DESIGNED - NEM	REVISED -
		DRAWN - NEM	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -
	PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

CHICAGO STREET
CROSS SECTIONS

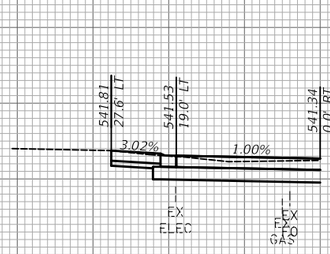
SCALE: | SHEET OF SHEETS | STA. 16+50.00 | TO STA. 18+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	211
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

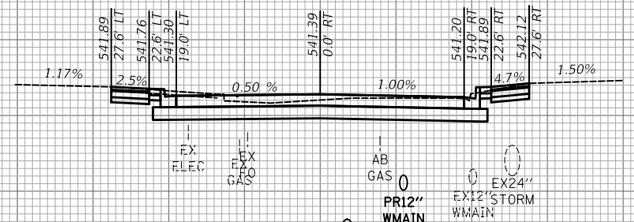
FINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	DATE
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	DATE
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

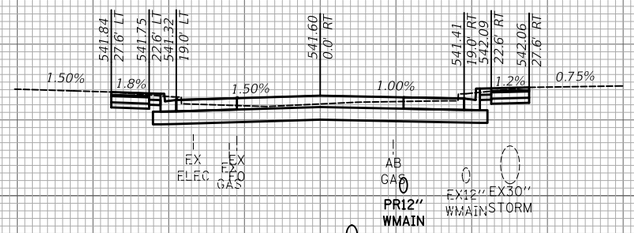
PLOT DRIVER = $PLTDRVLS
PEN TABLE = $PENTBLLS
FILE NAME = ...\3679-plt-xss-Chicago.dgn



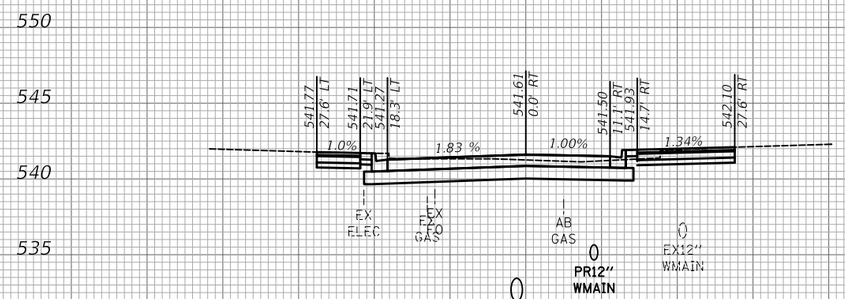
19 + 90.00



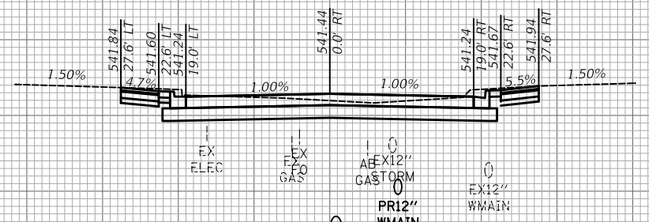
19 + 50.00



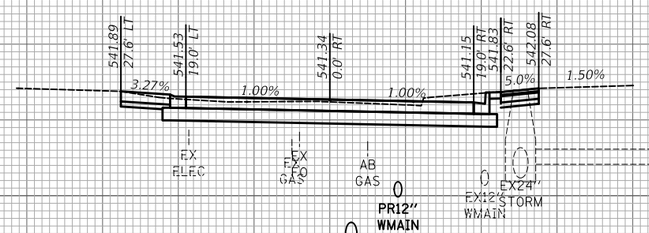
19 + 00.00



21 + 00.00



20 + 50.00



20 + 00.00

CIVILTECH	USER NAME = nem	DESIGNED - NEM	REVISED -
		DRAWN - NEM	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -
	PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

CHICAGO STREET
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 19+00.00 | TO STA. 21+00.00

F.A. RTE.	SFA	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1			WILL	224	212
			CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT		

PLOT DRIVER	= $PLTDRVLS
PEN TABLE	= $PENTBLLS
FILE NAME	= ...\3679-sht-xsc-Chicago.dgn

ORIGINAL SURVEY	NOTE BOOK	NO.
FINAL SURVEY		

SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

DATE	BY

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

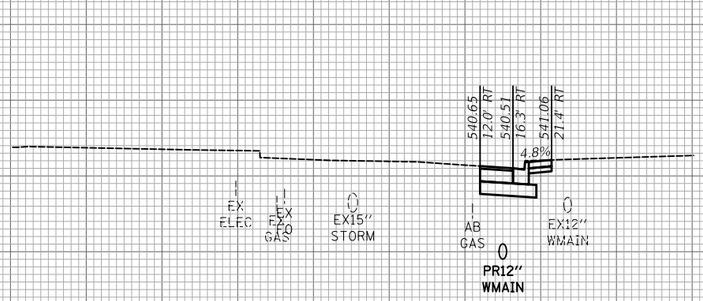
PLOT DRIVER = $PLTDRVLS
PEN TABLE = $PENTBLLS
FILE NAME = ...\3679-sht-xsc-Chicago.dgn

CIVILTECH

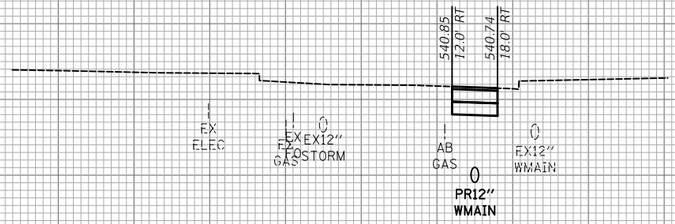
USER NAME = nem	DESIGNED - NEM	REVISED -	CITY OF JOLIET	CHICAGO STREET CROSS SECTIONS
	DRAWN - NEM	REVISED -		
PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -		
PLOT DATE = 5/7/2024	DATE -	REVISED -		

SCALE: | SHEET OF SHEETS | STA. 21+50.00 | TO STA. 23+38.00

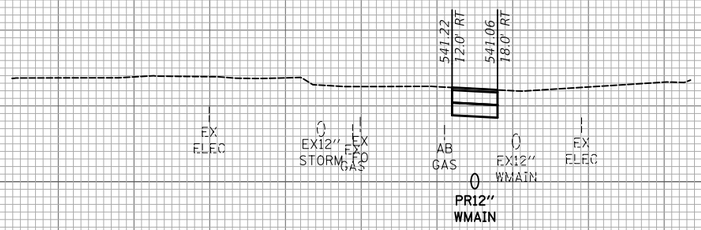
F.A.S.FA1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	213
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



24 + 50.00



24 + 00.00



23 + 50.00

24 + 80.71

USER NAME = nem	DESIGNED - NEM	REVISED -	**CITY OF JOLIET**
	DRAWN - NEM	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -	
PLOT DATE = 5/7/2024	DATE -	REVISED -	

CIVILTECH

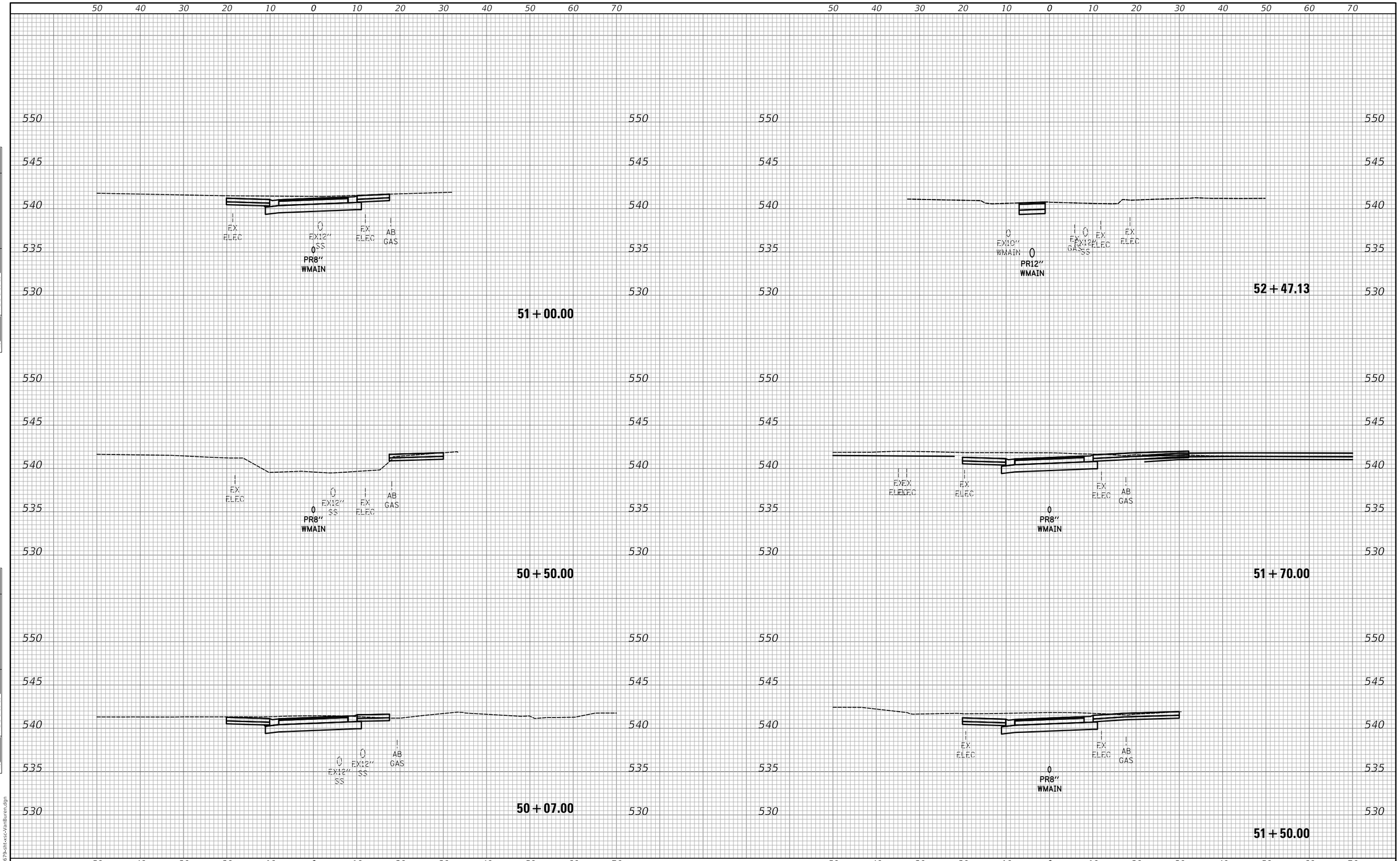
CHICAGO STREET
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 23+50.00 | TO STA. 24+80.71

F.A.S.F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	214
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY / ORIGINAL SURVEY
NOTE BOOK
NO.
BY
DATE
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

PLOT DRIVER = $PLTDRV1$
PEN TABLE = $PENTBL1$
FILE NAME = ...\13679-sht-xsc-Chicago.dgn



FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

PLOT DRIVER = $PLTDRVLS
PEN TABLE = $PENTBLLS
FILE NAME = ...\13679-sht-xst-VanBuren.dgn

CIVILTECH

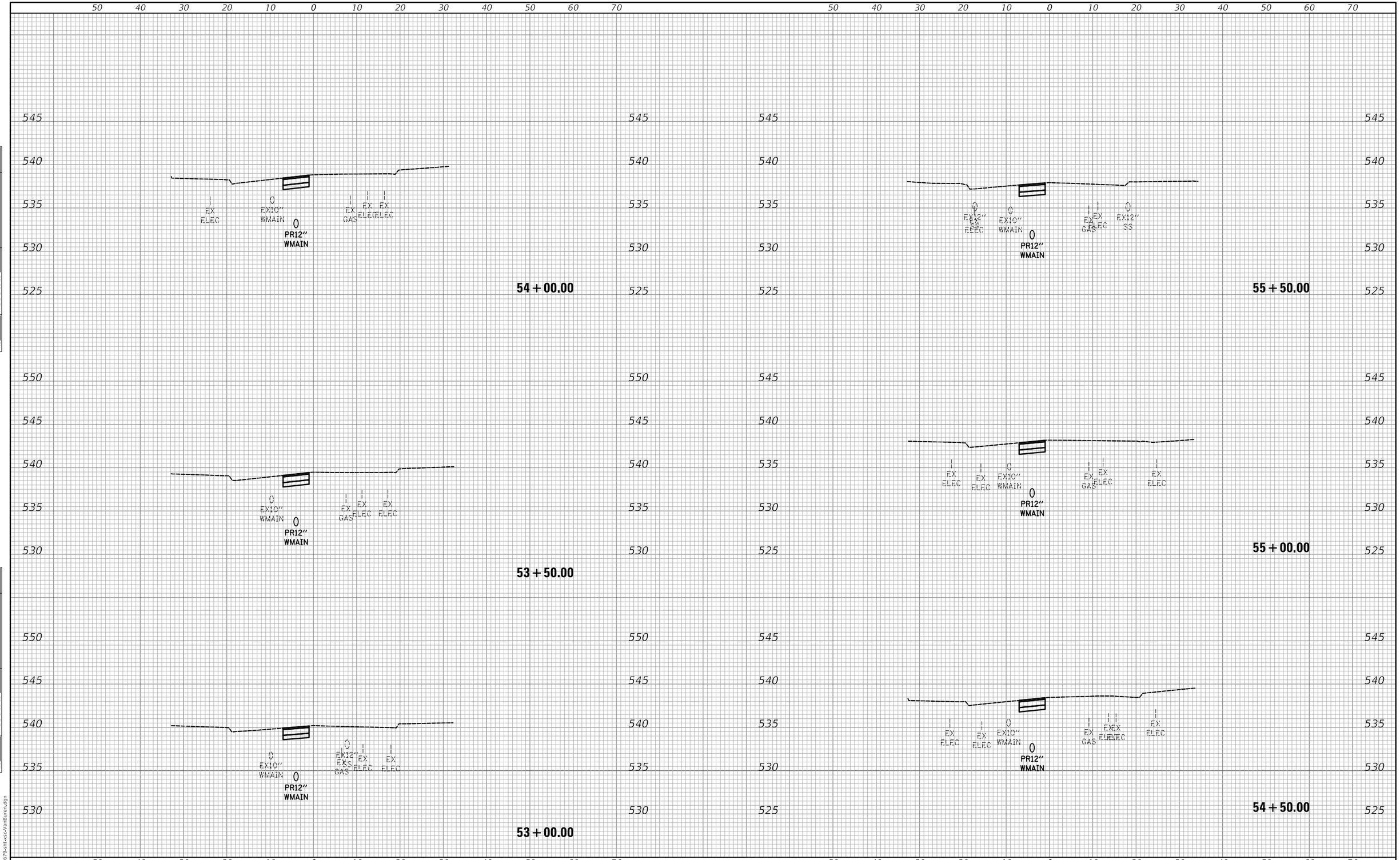
USER NAME = nem	DESIGNED - NEM	REVISED -	
	DRAWN - BTC	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -	
PLOT DATE = 5/7/2024	DATE -	REVISED -	

CITY OF JOLIET

VAN BUREN STREET
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 50+07.00 | TO STA. 52+47.13

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	215
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



CIVILTECH	USER NAME = nem	DESIGNED - NEM	REVISED -
		DRAWN - BTC	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -
	PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

VAN BUREN STREET
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 53+00.00 | TO STA. 55+50.00

F.A.S.FA1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	216
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY / ORIGINAL SURVEY
NOTE BOOK
NO.
BY
DATE
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

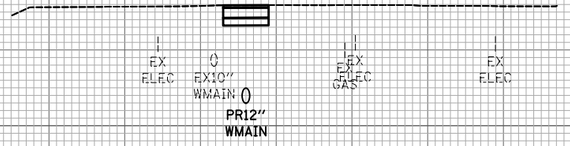
PLOT DRIVER = $PLTDRVLS
PEN TABLE = $PENTBLLS
FILE NAME = ...\3679-sht-xsc-VanBuren.dgn

50 40 30 20 10 0 10 20 30 40 50 60 70

545
540
535
530
525

56 + 38.00

545
540
535
530
525



56 + 00.00

545
540
535
530
525

50 40 30 20 10 0 10 20 30 40 50 60 70

CIVILTECH	USER NAME = nem	DESIGNED - NEM	REVISED -
		DRAWN - BTC	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -
	PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

VAN BUREN STREET
CROSS SECTIONS

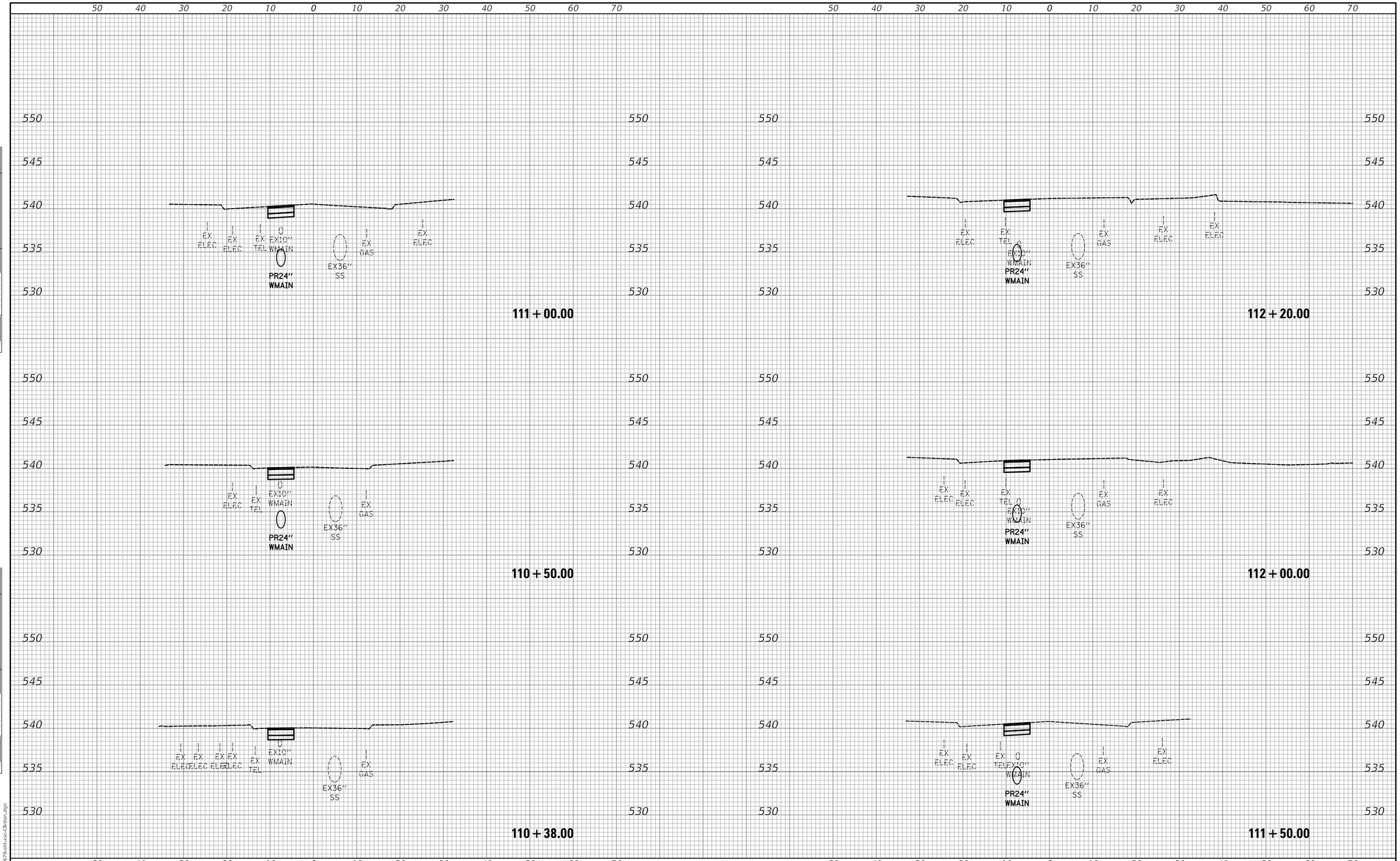
SCALE: | SHEET OF SHEETS | STA. 56+00.00 | TO STA. 56+38.00

F.A.SRA RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SRT1		WILL	224	217
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

PLOT DRIVER = $PLTDRVLS
PEN TABLE = $PENTBLLS
FILE NAME = ...\3679\sht-xst-VanBuren.dgn



USER NAME = nem	DESIGNED - NEM	REVISED -	CITY OF JOLIET
	DRAWN - BTC	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -	
PLOT DATE = 5/7/2024	DATE -	REVISED -	

CIVILTECH

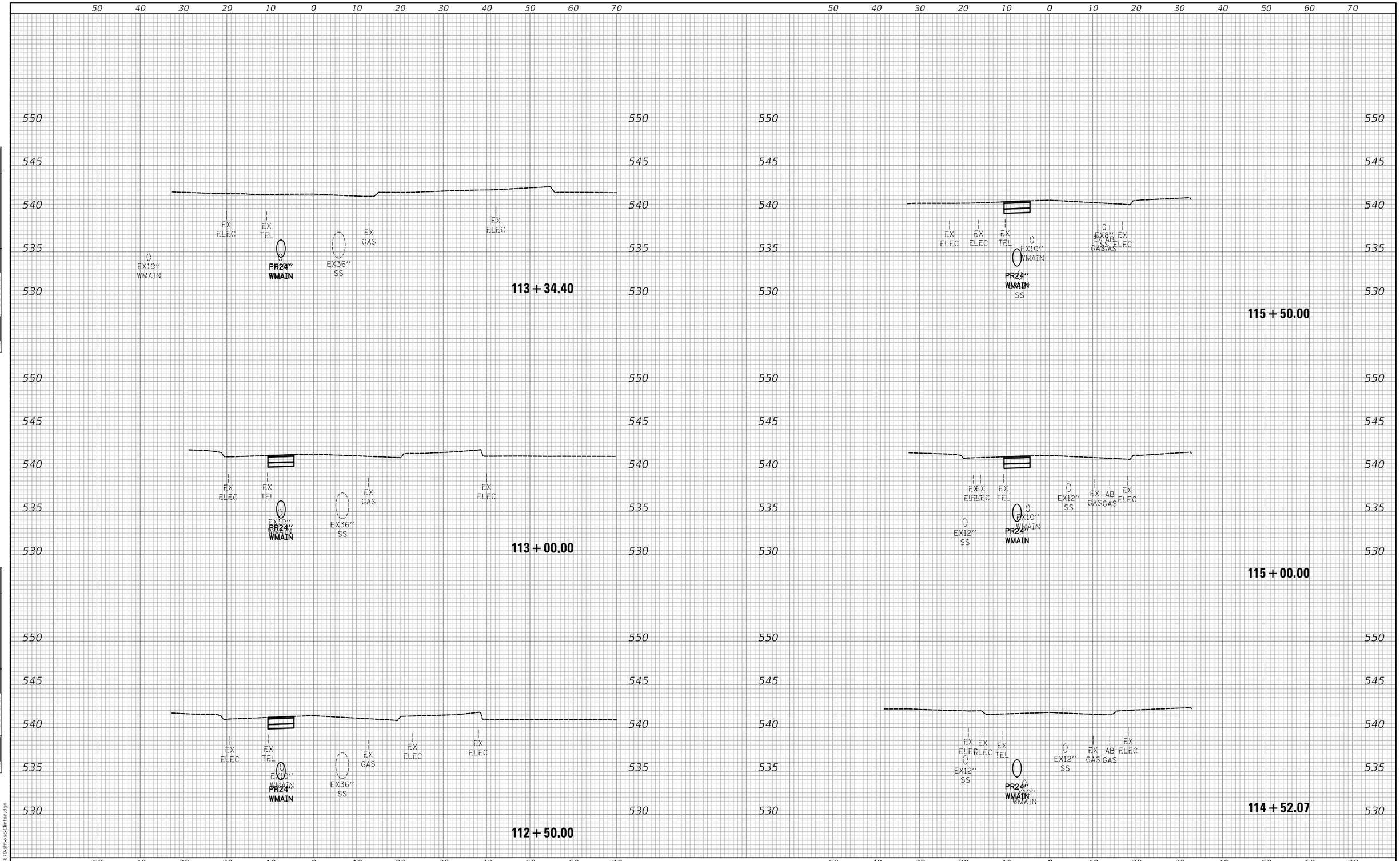
CLINTON STREET
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 110+38.00 | TO STA. 112+20.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	218
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY | FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

PLOT DRIVER = $PLOTDRVLS
PEN TABLE = $PENTBLLS
FILE NAME = ...\3679-sht-xsc-Clinton.dgn



FINAL SURVEY	DATE
NOTE BOOK	BY
NO.	SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED

ORIGINAL SURVEY	DATE
NOTE BOOK	BY
NO.	SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED

PLOT DRIVER = $PLTDRVLS
PEN TABLE = $PENTBLLS
FILE NAME = ...\13679-sht-xsc-Clinton.dgn

CIVILTECH

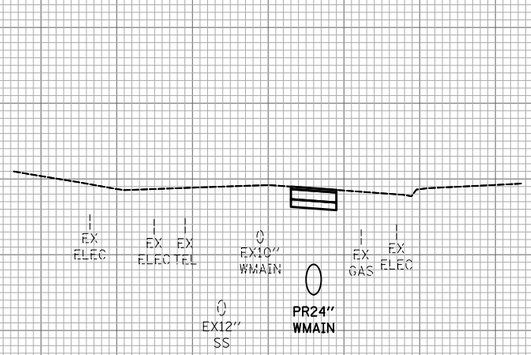
USER NAME = nem	DESIGNED - NEM	REVISED -	
	DRAWN - BTC	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -	
PLOT DATE = 5/7/2024	DATE -	REVISED -	

CITY OF JOLIET

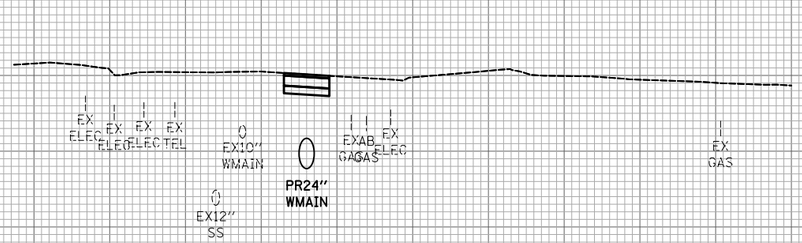
CLINTON STREET
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 112+50.00 | TO STA. 115+50.00

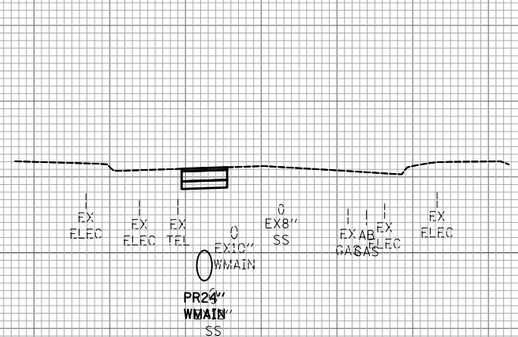
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	219
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



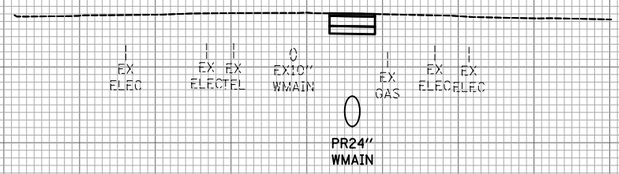
116 + 50.00



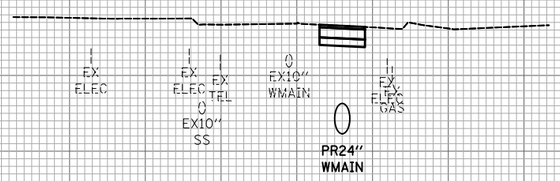
116 + 00.00



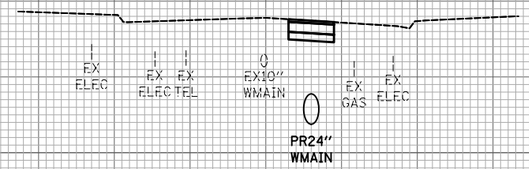
115 + 70.00



118 + 00.00



117 + 50.00



117 + 00.00

ORIGINAL SURVEY	NOTE BOOK	NO.

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

BY

DATE

FINAL SURVEY	NOTE BOOK	NO.

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

BY

DATE

PLOT DRIVER = $PLTDRVLS
PEN TABLE = $PENTBLLS
FILE NAME = ...\3679-sht-xsc-Clinton.dgn

CIVILTECH

USER NAME = nem	DESIGNED - NEM	REVISED -
	DRAWN - BTC	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

CLINTON STREET
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 115+70.00 | TO STA. 118+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	220
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY	NOTE BOOK	NO.

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

50 40 30 20 10 0 10 20 30 40 50 60 70

545
540
535
530
525

EX ELEC
EX TEL
0 EX10" WMAIN
0 EX10" WMAIN
0 EX10" WMAIN
EX ELEC

118 + 28.00

50 40 30 20 10 0 10 20 30 40 50 60 70

545
540
535
530
525

FINAL SURVEY	NOTE BOOK	NO.

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

PLOT DRIVER = $PLTDRVLS
PEN TABLE = $PENTBLS
FILE NAME = ...\3679-sht-xsc-Clinton.dgn

CIVILTECH

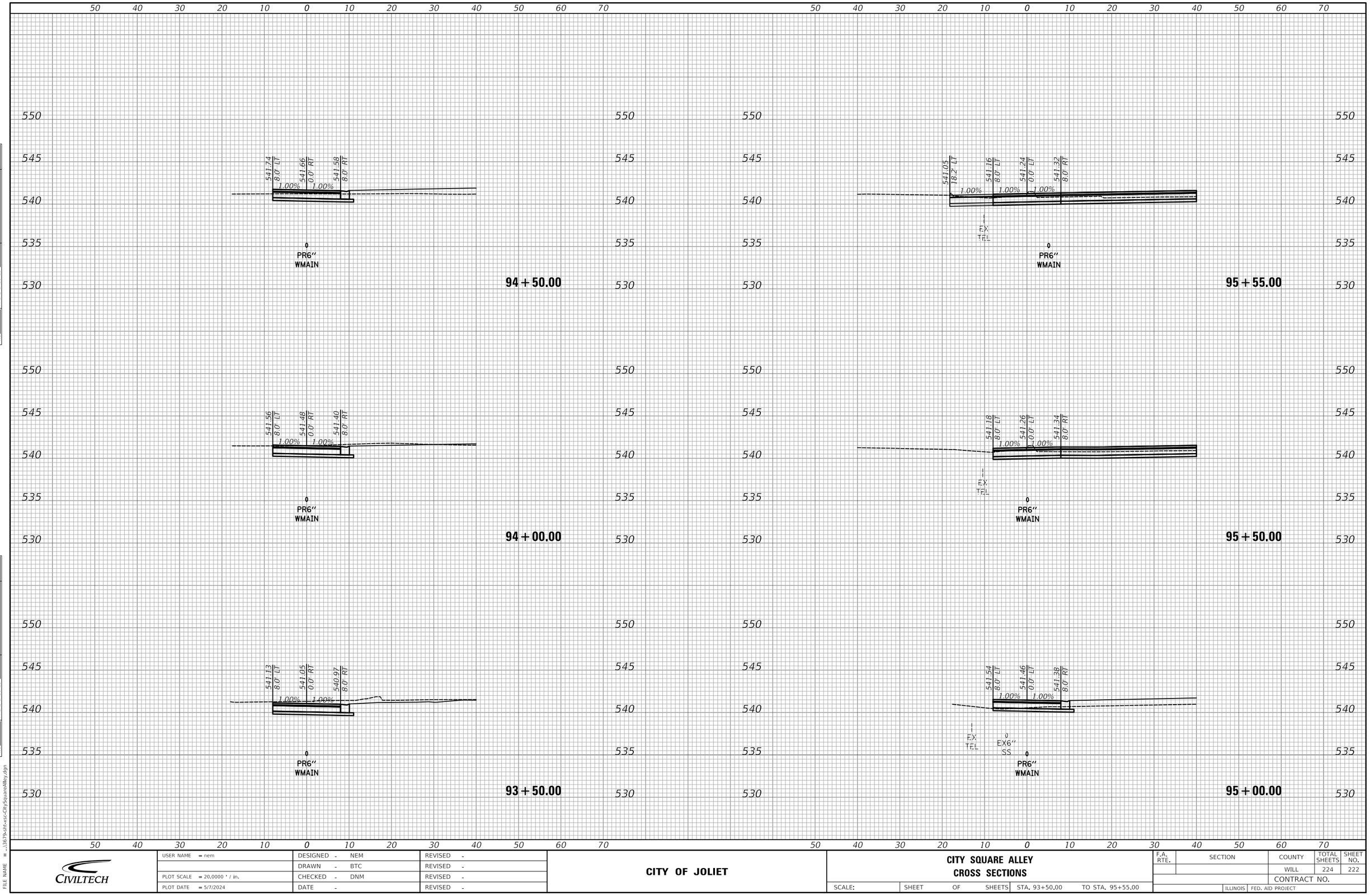
USER NAME = nem	DESIGNED - NEM	REVISED -
	DRAWN - BTC	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

CLINTON STREET
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 118+28.00 | TO STA. 118+28.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	221
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

PLOT DRIVER = $PLTDRVLS
PEN TABLE = $PENTBLLS
FILE NAME = ...\3679-sht-xsc-CitySquareAlley.dgn

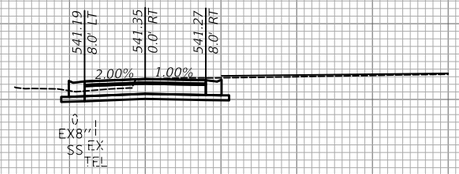
CIVILTECH

USER NAME = nem	DESIGNED - NEM	REVISED -	CITY OF JOLIET	CITY SQUARE ALLEY CROSS SECTIONS	
	DRAWN - BTC	REVISED -			
PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -		SCALE:	SHEET OF SHEETS STA. 93+50.00 TO STA. 95+55.00
PLOT DATE = 5/7/2024	DATE -	REVISED -			

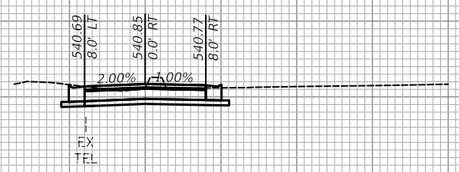
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	222
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

50 40 30 20 10 0 10 20 30 40 50 60 70

550
545
540
535
530



96 + 25.00



96 + 00.00

50 40 30 20 10 0 10 20 30 40 50 60 70

ORIGINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

FINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

PLOT DRIVER = $PLTDRVLS
PEN TABLE = $PENTBLLS
FILE NAME = ...\3679-plt-xss-CitySquare&Alley.dgn

CIVILTECH

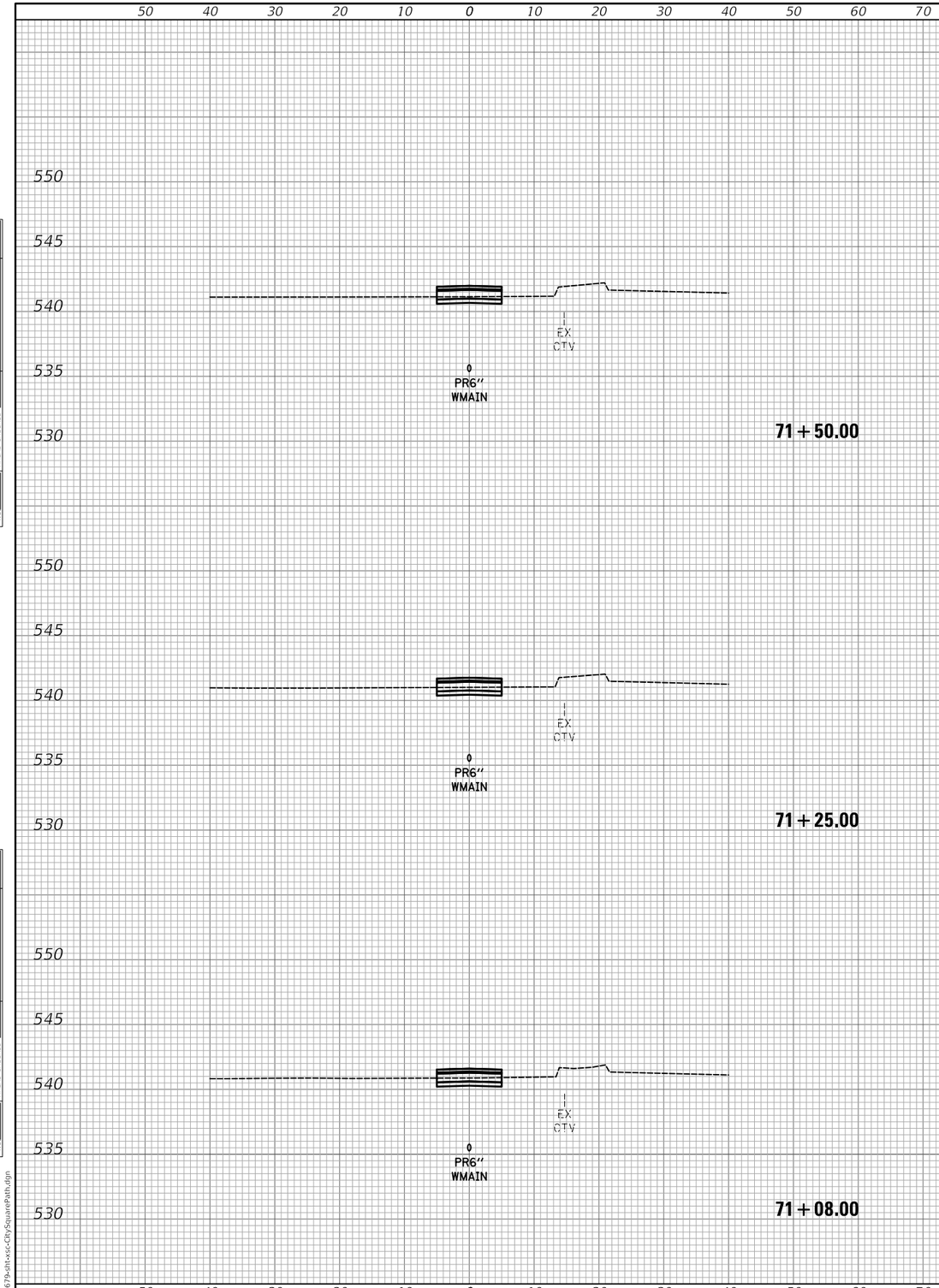
USER NAME = nem	DESIGNED - NEM	REVISED -
	DRAWN - BTC	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

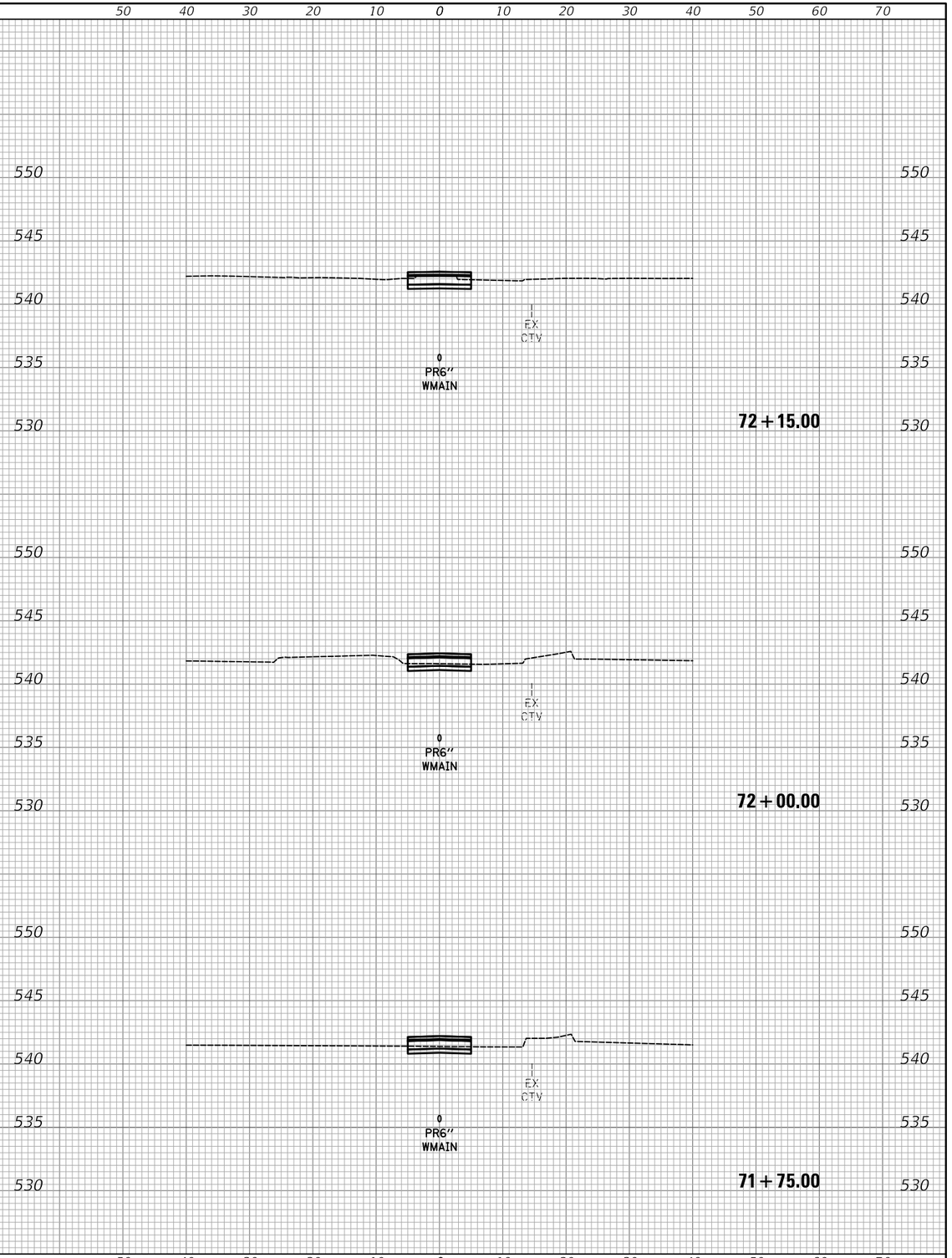
CCITY OF JOLIET

CITY SQUARE ALLEY
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 96+00.00 | TO STA. 96+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	223
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		





DATE	BY		
		SURVEYED	
		PLOTTED	
		TEMPLATE	
		AREAS	
		AREAS CHECKED	
FINAL SURVEY	NOTE BOOK		NO.

DATE	BY		
		SURVEYED	
		PLOTTED	
		TEMPLATE	
		AREAS	
		AREAS CHECKED	
ORIGINAL SURVEY	NOTE BOOK		NO.

PLOT DRIVER = $PLTDRVL$
PEN TABLE = $PENTBL$
FILE NAME = ...\3679\sht-xsc-CitySquarePath.dgn

CIVILTECH

USER NAME = nem	DESIGNED - NEM	REVISED -
	DRAWN - BTC	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 5/7/2024	DATE -	REVISED -

CITY OF JOLIET

CITY SQUARE PATH
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 71+08.00 | TO STA. 72+15.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	224	224
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		