MCC AUTOMOTIVE INSTITUTE

METROPOLITAN COMMUNITY COLLEGE - LONGVIEW

500 SW LONGVIEW RD.
LEE'S SUMMIT, MO, 64081

FINAL DEVELOPMENT PLAN

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July 12th, 2024

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KANSAS CITY, MO 64108
(816) 531-2121
CONTACT: BRAD LEWIS

PROPERTY LEGAL DESCRIPTION

SEC-9 TWP-47 RNG-32 --- PT NE 1/4 DAF: BEG NE COR SD 1/4 TH W ALG N LI SEC 9 2094.87' TH S 03 DEG 15 MIN 09 SEC W 515.17' TO TRU POB. TH CONT S 03 DEG 15 MIN 09 SEC W 2353.78' TH N 57 DEG 19 MIN 13; SEC E 391.38' TH S 88 DEG 13 MIN 46 SEC E 1486.29' TH N 3 DEG 23 MIN 20 SEC E 322' S 87 DEG 50 MIN 38 SEC E 269.77' TH N 3 DEG 14 MIN 53 SEC E 2118.34 TH N 87 DEG 38 MIN 41 SEC W 1215.76' TH S 23 DEG. 09 MIN 27 SEC E 310.25' TH N 87 DEG 41 MIN 21 SEC E 409.48' TH S 2 DEG 19 MIN 21 SEC W 47.69' N 87 DEG 41 MIN 21 SEC E 583.30' TO TRU POB.

DESIGN RENDERING (FOR REFERENCE ONLY)

RENDERING OF EAST ELEVATION. BASE BID CONDITION SHOWN

VICINITY MAP

DLRGROUP
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CA No. 000939

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ISHITA BANERJEE
6/27/24
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500 SW LONGVIEW RD,
LEE'S SUMMIT, MO, 64081

FINAL
DEVELOPMENT PLAN
June, 27th, 2024
REVISIONS

13-23128-00

COVER SHEET

G-0

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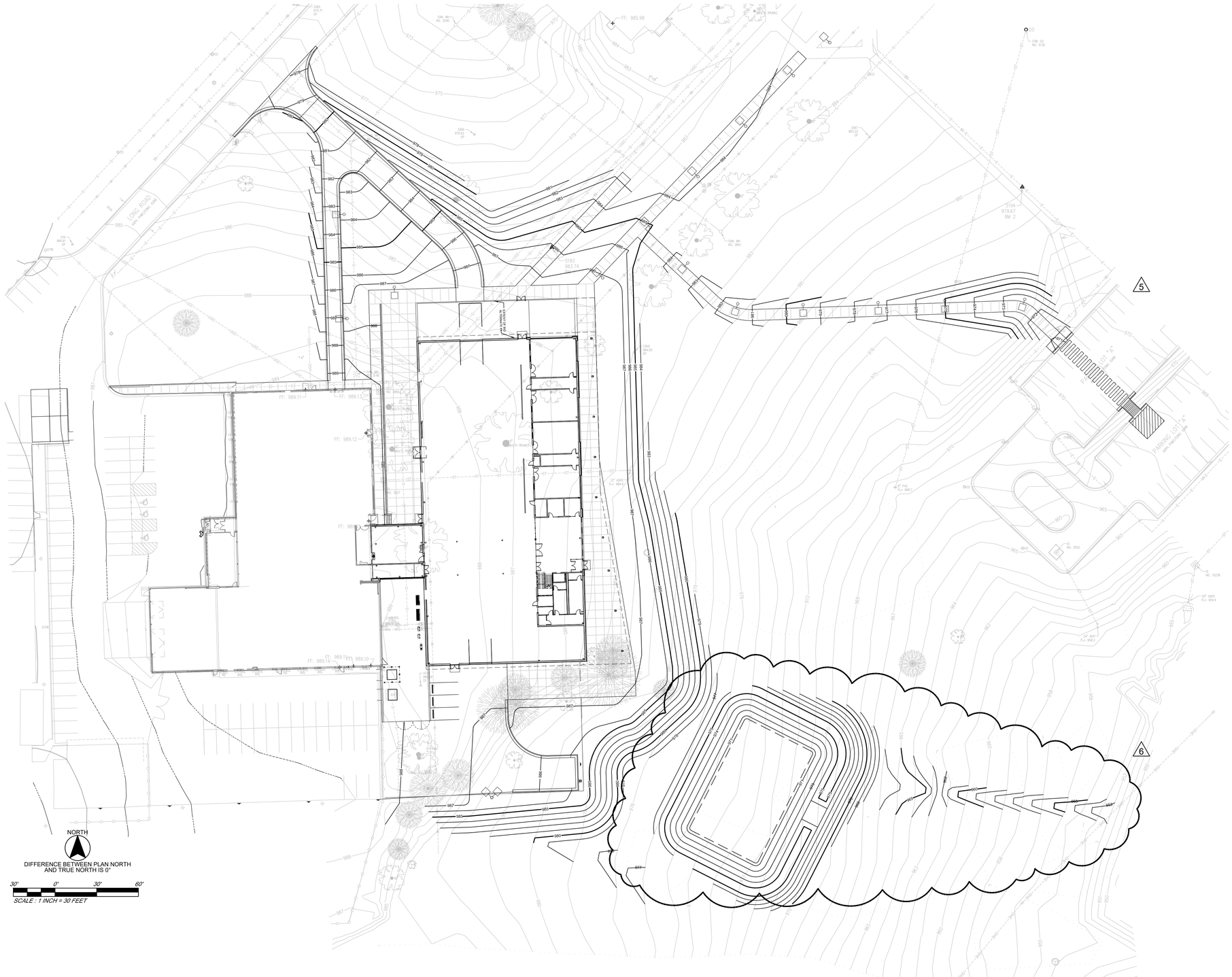

OWNER:

METROPOLITAN COMMUNITY COLLEGE - LONGVIEW
500 SW LONGVIEW ROAD
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CONTACT:

ARCHITECT:

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LEGAL DESCRIPTION

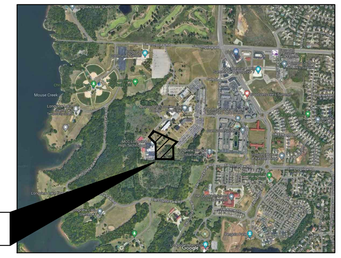
SEC-9 TWP-47 RNG-32 --- PT NE 1/4 DAF: BEG NE COR SD 1/4 TH W ALG N LI SEC 9 2094.87' TH S 03 DEG 15 MIN 09 SEC W 515.17' TO TRU POB. TH CONT S 03 DEG 15 MIN 09 SEC W 2353.78' TH N 57 DEG 19 MIN 13; SEC E 391.38' TH S 88 DEG 13 MIN 46 SEC E 1486.29' TH N 3 DEG 23 MIN 20 SEC E 322' S 87 DEG 50 MIN 38 SEC E 269.77' TH N 3 DEG 14 MIN 53 SEC E 2118.34 TH N 87 DEG 38 MIN 41 SEC W 1215.76' TH S 23 DEG; 09 MIN 27 SEC E 310.25' TH N 87 DEG 41 MIN 21 SEC E 409.48' TH S 2 DEG 19 MIN 21 SEC W 47.69' N 87 DEG 41 MIN 21 SEC E 583.30' TO TRU POB.

TOTAL LAND AREA = 108.91 AC (APPROX. 4,744,120 SF)

THE SUBJECT PROPERTY IS NOT IN A FLOODPLAIN

NO NEW LOTS WILL BE CREATED AS A PART OF THIS DEVELOPMENT

PER THE MISSOURI DEPARTMENT OF NATURAL RESOURCES GIS DATA, THERE ARE NO OIL OR GAS WELLS LOCATED ON THE PROPOSED SITE.



PROJECT LOCATION

NORTH

VICINITY MAP

NOT TO SCALE

PLAN PREPARATION DATE: 22 MARCH 2024
REVISION: 27 JUNE 2024

DLR GROUP
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STATE OF MISSOURI
REGISTERED ENGINEER
HAGOS ERMIAS ANDEBRHAN
NUMBER PE-2010018252
06/27/24

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CITY COMMENTS	03.29.24	4
FINAL DEV. PLAN	06.04.24	5
FDP RESPONSES	06.27.24	6

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OVERALL SITE PLAN

C0.10

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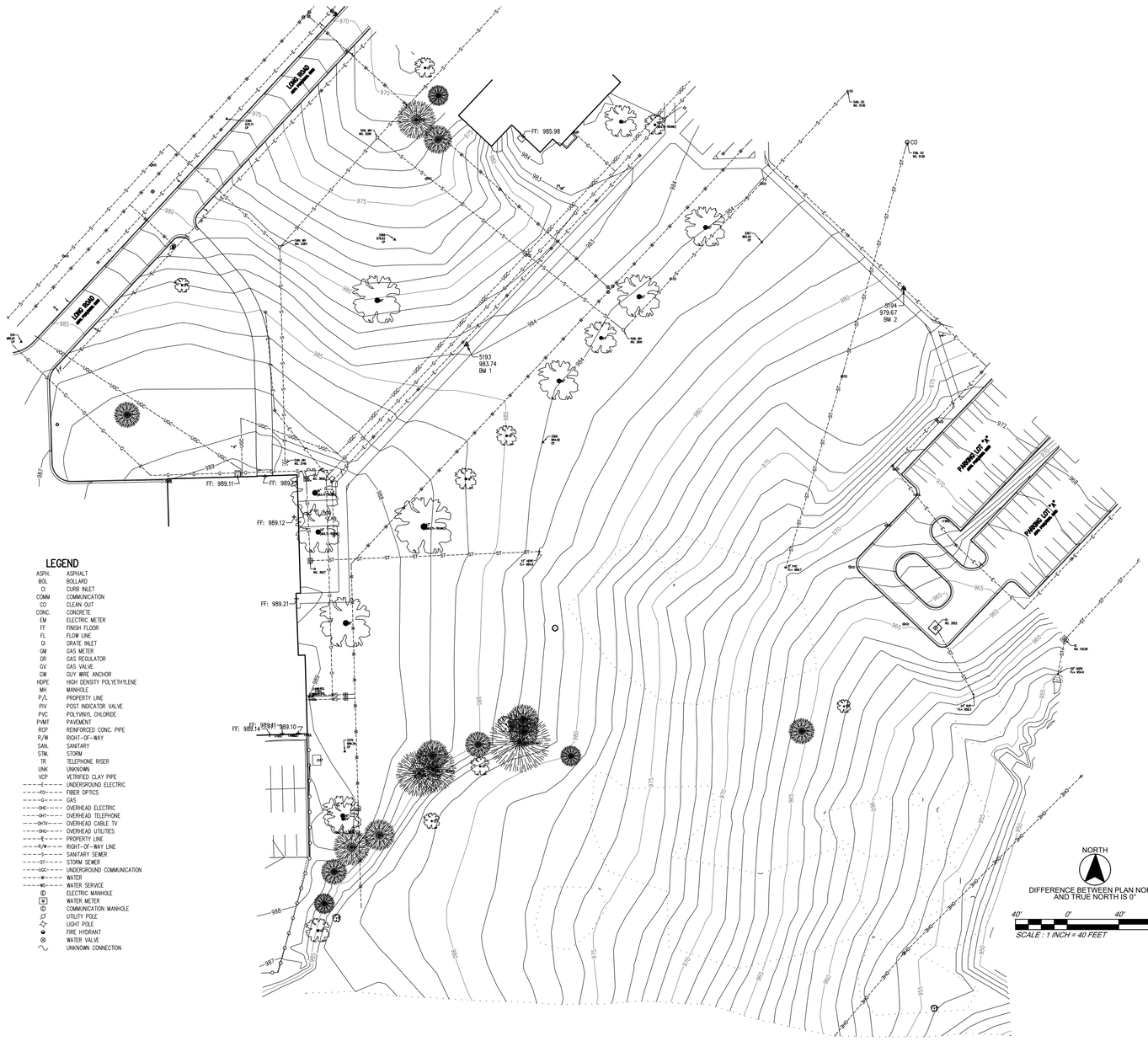


LEGEND

ASPH.	ASPHALT
BOL	BOLLARD
CI	CURB INLET
COMM	COMMUNICATION
CO	CLEAN OUT
CONC.	CONCRETE
EM	ELECTRIC METER
FF	FINISH FLOOR
FL	FLOW LINE
GI	GRATE INLET
GM	GAS METER
GR	GAS REGULATOR
GV	GAS VALVE
GW	GUY WIRE ANCHOR
HDPE	HIGH DENSITY POLYETHYLENE
MH	MANHOLE
P/L	PROPERTY LINE
PIV	POST INDICATOR VALVE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONC. PIPE
R/W	RIGHT-OF-WAY
SAN.	SANITARY
STM.	STORM
TR	TELEPHONE RISER
UNK	UNKNOWN
VCP	VETRIFIED CLAY PIPE
-----E-----	UNDERGROUND ELECTRIC
-----FO-----	FIBER OPTICS
-----G-----	GAS
-----OHE-----	OVERHEAD ELECTRIC
-----OHT-----	OVERHEAD TELEPHONE
-----OHTV-----	OVERHEAD CABLE TV
-----OHU-----	OVERHEAD UTILITIES
-----P-----	PROPERTY LINE
-----R/W-----	RIGHT-OF-WAY LINE
-----S-----	SANITARY SEWER
-----ST-----	STORM SEWER
-----UGC-----	UNDERGROUND COMMUNICATION
-----W-----	WATER
-----WS-----	WATER SERVICE
	ELECTRIC MANHOLE
	WATER METER
	COMMUNICATION MANHOLE
	UTILITY POLE
	LIGHT POLE
	FIRE HYDRANT
	WATER VALVE
	UNKNOWN CONNECTION

SANITARY AND STORM SEWER STRUCTURE TABLE

KCMO NO.	T&B NO.	TOP ELEV.	FLOWLINE – IN			FLOWLINE – OUT			PIPE		NOTES
			DIR.	DEPTH	ELEV.	DIR.	DEPTH	ELEV.	SIZE	MAT.	
	MH NO. 3146	989.14				*NW*	12.43	976.71	*6"*	*VCP*	4'X4' CONC. BOX HOLDING LIQUID, HAS E-W WEIR WALL
	MH NO. 3283	979.55	NW		5.80	973.70			6"	PVC	4" DIA. CONC. LID ECCENTRIC TO WEST
			S		5.80	973.75			6"	VCP	
	MH NO. 3290	971.62	SW		5.40	966.22	NE	8.10	971.45	8"	VCP
			SE		4.85	966.77				8"	PVC
							NE	5.56	966.06	8"	VCP
	GI NO 3552	963.72					SSE	3.35	960.37	24"	RCP
	MH NO. 3841	983.77	NE		6.05	977.72				6"	PVC
							NW	6.06	977.71	6"	PVC
	GI NO. 3856	988.16					S	2.30	985.86	12"	HDPE
	GI NO. 3927	988.38	N		3.00	985.38				12"	HDPE
							E	3.10	985.28	12"	HDPE
	MH NO.5057	964.07	SW		5.10	958.97				8"	VCP
			NE		4.73	959.34				8"	VCP
							N	5.12	958.92	8"	VCP
	CO NO. 5130	986.72					SW	5.00	981.72	*6"*	PVC
	CO NO. 5132	987.72					SSW	4.60	982.62	8"	PVC
	GI NO. 10238	958.32	NE		3.80	954.52				24"	HDPE
							SSW	3.85	954.47	24"	HDPE
	GI NO. 10247	973.33	NW		3.75	969.58				24"	HDPE
			NE		2.75	970.58				12"	HDPE
							SW	4.00	969.33	24"	HDPE

** INDICATES CITY RECORDS

HORIZONTAL CONTROL

PROJECT COORDINATES SHOWN HEREON ARE BASED ON THE MISSOURI COORDINATE SYSTEM OF 1983, WEST ZONE, NAD83 2011 ADJUSTMENT, AS DETERMINED FROM GPS OBSERVATIONS USING THE MISSOURI DEPARTMENT OF TRANSPORTATION COMMISSION GLOBAL NAVIGATION SATELLITE REAL-TIME NETWORK AND TIED TO CONTROL MONUMENT JA-96 OF THE JACKSON COUNTY GEOGRAPHIC REFERENCE SYSTEM. PROJECT CONTROL IS BASED ON MISSOURI COORDINATE SYSTEM COORDINATE VALUES FOR CONTROL PT. NO. 201 AND USED AS THE BASE POINT FOR SCALING. A GRID FACTOR OF 0.9998997 WAS USED:

PROJECT CONTROL				
NAME	GRID COORDINATES		PROJECT COORDINATES GRID FACTOR: 0.9998997	
	NORTHING (usFT)	EASTING (usFT)	NORTHING (usFT)	EASTING (usFT)
CP #201 (BASE PT. FOR SCALING)	1,000,097.09	2,801,039.31	1,000,097.09	2,801,039.31
JA-96	1,000,821.54	2,794,091.51	1,000,821.62	2,794,090.81

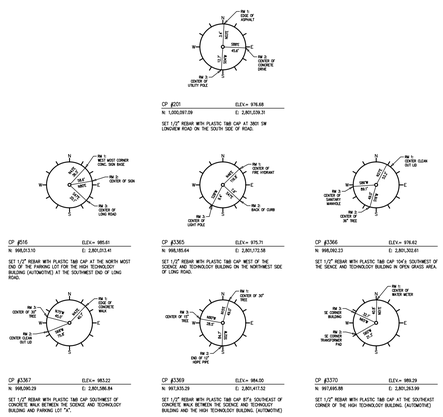
PROJECT BENCHMARK

KCMO INDEX RECORD 4374:
JACKSON COUNTY GEOGRAPHIC REFERENCE MONUMENT JA-96 LOCATED 172.5± EAST OF THE CENTERLINE OF RAYTOWN ROAD AND 204'± SOUTH OF THE CENTERLINE OF LONGVIEW ROAD.
ELEV.= 963.52

VERTICAL CONTROL

TBM #1 (CONTROL POINT #000)
SET A CUT SQUARE 258'± SOUTHWEST OF SCIENCE AND TECHNOLOGY BUILDING ENTRANCE ON THE NORTHWEST EDGE OF A CONCRETE WALK SOUTHEAST OF A LIGHT POLE.
ELEV.= 983.74

TBM #2
SET A CUT SQUARE ON THE TOP WEST SIDE OF A LIGHT POLE BASE ON THE NORTHEAST SIDE OF A CONCRETE WALK RUNNING BETWEEN A PARKING LOT "A" AND THE SCIENCE AND TECHNOLOGY BUILDING ENTRANCE, 97'± NORTHWEST OF NORTHWEST PARKING LOT CURB ALSO THE SECOND POLE NORTHWEST OF LOT.
ELEV.= 979.67



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13-23128-00

SITE SURVEY

C1.01

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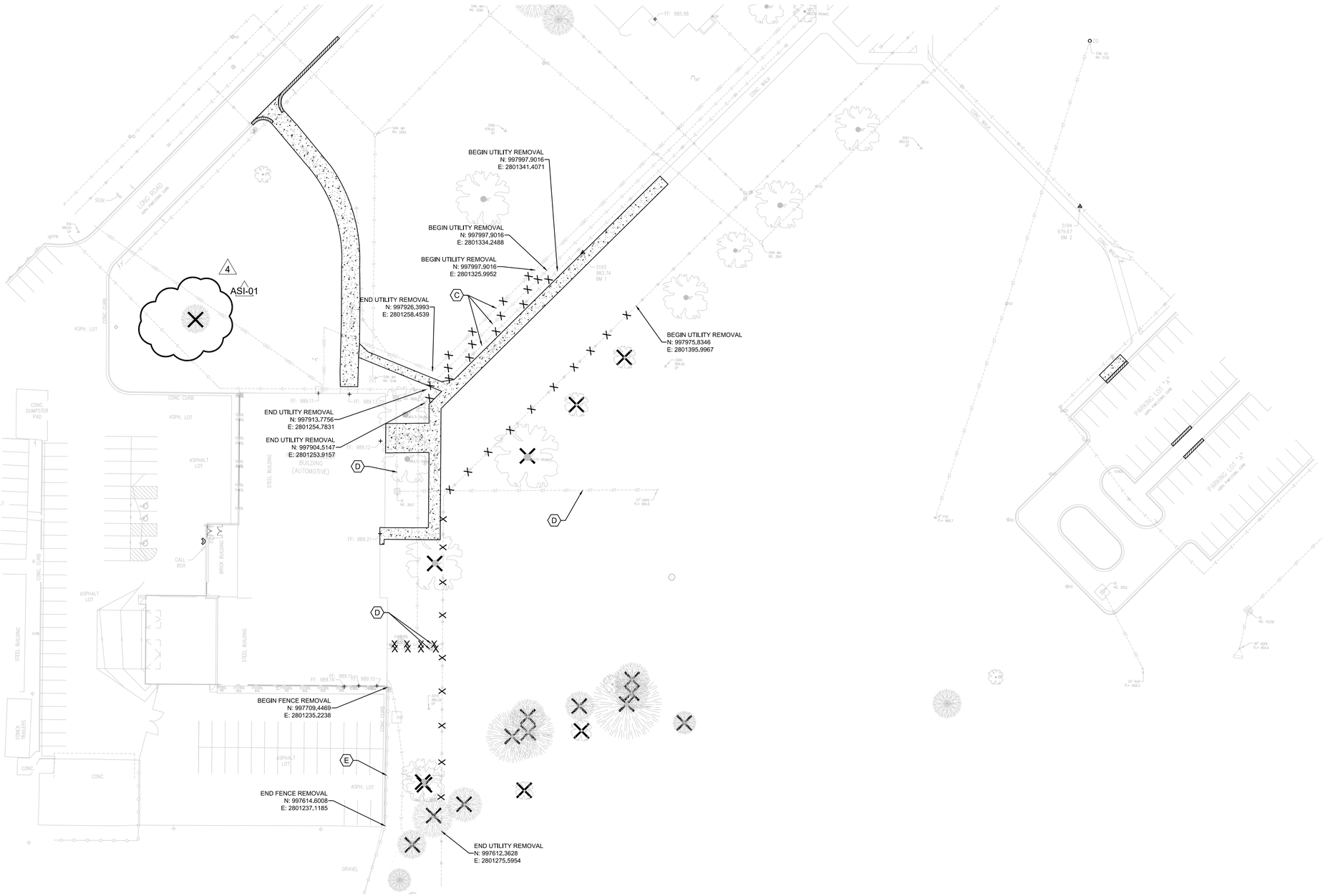

DEMOLITION NOTES - GENERAL

1. ALL DEMOLITION SHALL CONFORM TO LEE'S SUMMIT, MISSOURI BUILDING CODES. CODES ARE AVAILABLE AT THE PUBLIC WORKS DEPARTMENT, CITY HALL, LEE'S SUMMIT, MO.
2. THE DEMOLITION CONTRACTOR SHALL BE LICENSED IN LEE'S SUMMIT, MO.
3. THE REMOVED ITEMS SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH ALL REGULATIONS AND ORDINANCES OF LEE'S SUMMIT, MO.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES, DRAINAGE STRUCTURES, PAVING, TREES TO REMAIN, AND TREES ADJACENT TO PROJECT LIMITS. DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
5. WHERE EXISTING ASPHALT OR CONCRETE SURFACE IS TO BE REMOVED AND ADJACENT ASPHALT OR CONCRETE SURFACE IS TO REMAIN, THE EXISTING SURFACE SHALL BE CUT ALONG NEAT LINES (FULL DEPTH SAW CUT).
6. WHERE EXISTING STRUCTURES, PAVING OR ROADWAYS ARE TO BE REMOVED WHICH ARE ADJACENT TO WALLS OR STRUCTURES TO REMAIN, THE CONTRACTOR SHALL PROVIDE SHORING AS NEEDED TO PROTECT AND NOT DAMAGE STRUCTURES OR ROADWAY TO REMAIN.
7. FOR CURB AND SIDEWALKS, SAWCUT TO NEAREST CONSTRUCTION OR EXPANSION JOINT, REMOVE CONCRETE CURB AND SIDEWALK FOR NEW CONSTRUCTION.
8. DIMENSIONS GIVEN ARE APPROXIMATE AND MAY REQUIRE ADJUSTMENT TO ACCOMODATE ACTUAL CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR NEW CONSTRUCTION.
9. UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS FROM THE BEST AVAILABLE RECORDS. THE EXACT LOCATIONS AND ELEVATIONS OF THESE UTILITIES OR THE COMPLETENESS OF THE INFORMATION IS NOT GUARANTEED. NOTE THAT SERVICE LINES MAY NOT BE SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL SURFACE UTILITIES WITHIN THE PROJECT AREA DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH UTILITY COMPANIES PRIOR TO COMMENCING REQUIRED WORK IN THE VICINITY OF SUCH UTILITIES.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTROL STORM WATER, SILT, AND EROSION DURING CONSTRUCTION.
11. PIPES TO BE ABANDONED IN PLACE SHALL BE FILLED WITH NON-SHRINKABLE GROUT OR FLY ASH AND PLUGGED AT THE ENDS WITH CONCRETE.
12. EXISTING OVERHEAD AND UNDERGROUND ELECTRIC LINES, TELEPHONE LINES, CABLE TV LINES, ETC., AND APPURTENANCES TO BE REMOVED / RELOCATED BY OTHERS.
13. THE CONTRACTOR SHALL CLEAR THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
14. THE CONTRACTOR SHALL ADJUST AS NECESSARY, ALL MANHOLE LIDS, VALVE BOXES, ETC. TO REMAIN.
15. THE CONTRACTOR SHALL REMOVE ADDITIONAL ITEMS, AS NECESSARY, TO COMPLETE CONSTRUCTION OF PROPOSED WORK. CONTRACTOR SHALL OBTAIN APPROVAL FOR REMOVAL OF SUCH ITEMS FROM THE ARCHITECT OR ENGINEER. REMOVAL OF SUCH ITEMS SHALL BE AT NO ADDITIONAL COST.
16. PRIOR TO BEGINNING DEMOLITION WORK OR SERVICE OUTAGES, THE CONTRACTOR SHALL PROVIDE, AT A MINIMUM, SEVENTY-TWO (72) HOURS ADVANCE NOTICE TO THE OWNER'S REPRESENTATIVE FOR PURPOSE OF VERIFYING UTILITY LOCATIONS INCLUDING, BUT NOT LIMITED TO, GAS, CABLE, TELECOMMUNICATIONS, ELECTRIC, WATER, STEAM, AND SEWER. THE CONTRACTOR SHALL MINIMIZE THE NUMBER OF OUTAGES AND RELATED WORK SHALL BE CONTINUOUS UNTIL THE UTILITY IS RESTORED.
17. CONTRACTOR SHALL REMOVE EXISTING STORM SEWER STRUCTURES AND ASSOCIATED PIPING WITHIN THE SITE WHERE SHOWN. CONTRACTOR SHALL ENSURE THAT ANY STORM SEWER PIPING THAT ORIGINATES OUTSIDE THE LIMITS OF CONSTRUCTION AND CARRIES FLOWS THROUGH THE SITE REMAINS UNDISTURBED. ALL PIPING THAT ORIGINATES ON SITE SHALL BE REMOVED / ABANDONED AS NECESSARY AND CAPPED AT THE PROPERTY LINE.

NORTH

30" 0" 30" 60"

SCALE : 1 INCH = 30 FEET

SITE DEMOLITION NOTES:

- (A) EXISTING SIGN & POST TO BE REMOVED IN ITS ENTIRETY.
- (B) EXISTING WATER METER TO BE RELOCATED
- (C) EXISTING UTILITY TO BE RELOCATED AROUND NEW BUILDING
- (D) EXISTING STORM LINE TO BE REMOVED IN ITS ENTIRETY
- (E) EXISTING FENCE TO BE REMOVED

LEGEND:

- EXISTING CONCRETE SURFACE TO BE REMOVED IN ITS ENTIRETY
- EXISTING CURB TO BE REMOVED.
- EXISTING TREE / STUMP TO BE REMOVED.
- EXISTING UTILITY TO BE REMOVED

DLR GROUP

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STATE OF MISSOURI
REGISTERED ENGINEER
HAGOS ERMIAS ANDEBRHAN
NUMBER PE-2004011822
PROFESSIONAL ENGINEER

04/26/24

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04.26.24

REVISIONS
CITY COMMENTS 03.29.24 4
ASI-01 04.26.24

13-23128-00

OVERALL DEMOLITION PLAN

C1.10

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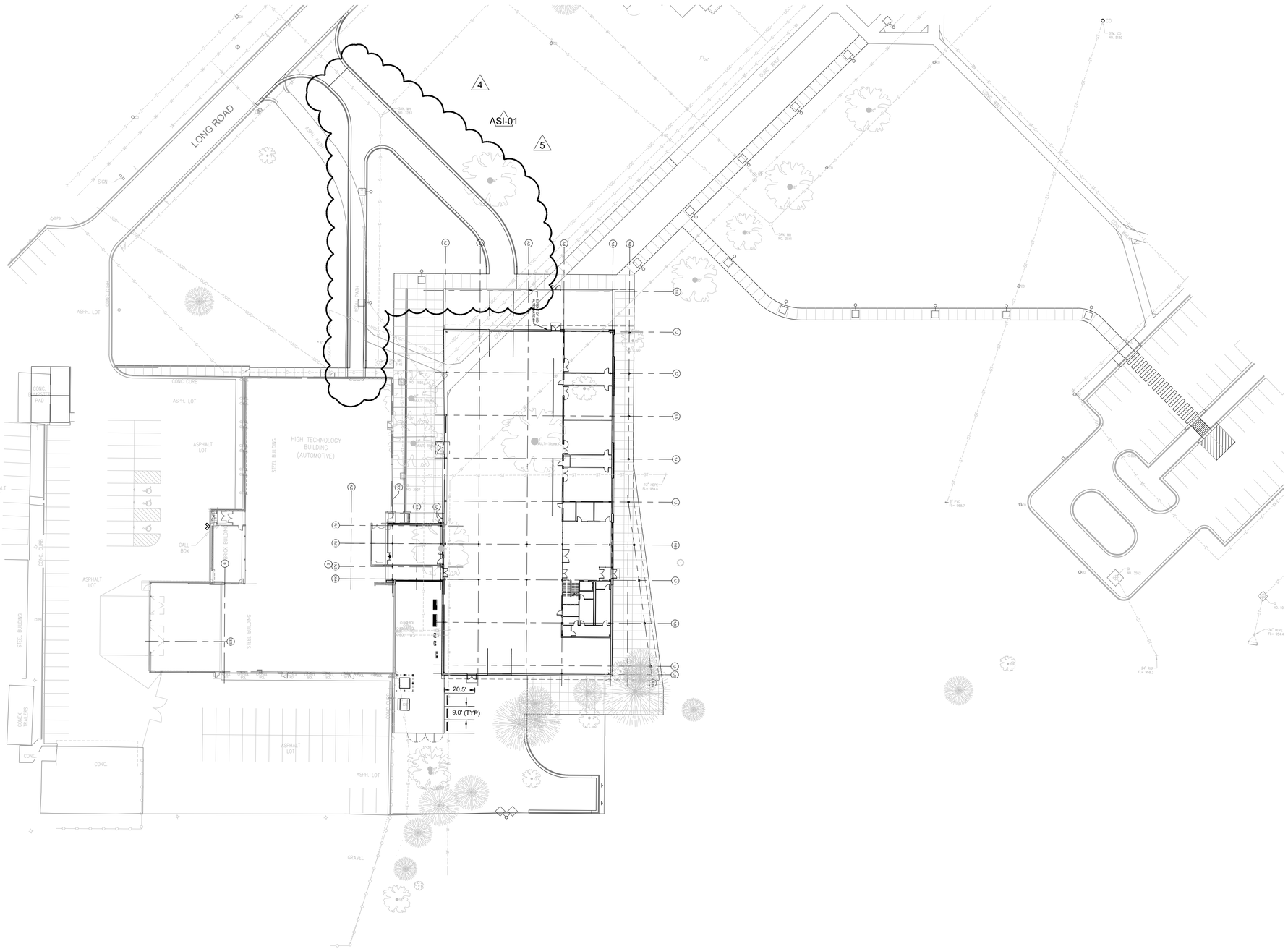

GENERAL NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS, DESIGN CRITERIA, AND STANDARD DRAWINGS OF THE CITY OF LEE'S SUMMIT, MO. THE FOLLOWING SPECIFICATIONS.
2. UTILITY LOCATIONS ARE TAKEN FROM UTILITY COMPANY RECORDS. THEY ARE APPROXIMATE ONLY AND DO NOT CONSTITUTE ACTUAL FIELD LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION AND SHALL COORDINATE ALL WORK WITH THE APPROPRIATE UTILITY COMPANIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING FACILITIES DESIGNATED TO REMAIN SUCH AS CURBING, PAVEMENT, SEWERS AND UTILITIES. ANY DAMAGE DONE TO THE ABOVE FACILITIES BY THE CONTRACTOR'S PERSONNEL OR EQUIPMENT SHALL BE REPAIRED TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING SEWERS, UTILITIES AND ACCESS ROADWAYS DURING ALL PHASES OF CONSTRUCTION.
5. REMOVE ALL EXISTING STREET SIGNS WITHIN THE CONSTRUCTION LIMITS AND DELIVER TO THE CITY OF LEE'S SUMMIT, MISSOURI, PUBLIC WORKS DEPARTMENT.
6. PROTECT EXISTING UTILITIES THAT ARE TO REMAIN AT ALL TIMES. FOR COORDINATION REFER TO "UTILITY SITE PLANS" AND "SPECIFICATIONS", THIS CONTRACT.
7. SAVE AND PROTECT ALL EXISTING TREES THAT ARE DESIGNATED TO REMAIN ("S") DURING ALL PHASES OF THE CONSTRUCTION.
8. REMOVAL AND DISPOSAL OF EXISTING TREES SHALL COMPLY WITH ALL REGULATIONS OF THE CITY OF LEE'S SUMMIT, MISSOURI.
9. THE CONTRACTOR SHALL INFORM THE PUBLIC WORKS DEPARTMENT STREET AND TRAFFIC DIVISION, CITY HALL, LEE'S SUMMIT, MISSOURI AT LEAST ONE WEEK PRIOR TO ANY STREET CLOSURE.
10. THE CONTRACTOR SHALL ESTABLISH ALL HORIZONTAL AND VERTICAL CONTROL IN CONFORMANCE WITH THE PLANS. VARIATIONS WILL REQUIRE ADVANCE APPROVAL IN WRITING FROM THE ENGINEER.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FEES AND OBTAINING ALL NECESSARY PERMITS IN ACCORDANCE WITH THE ORDINANCES OF THE CITY OF LEE'S SUMMIT, MISSOURI.
12. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE WATER SERVICES DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.
13. PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWINGS SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL. THE DESIGN ENGINEER SHALL INDICATE APPROVAL OF THE SHOP DRAWINGS AND THEN SUBMIT THEM TO WATER SERVICES DEPARTMENT.
14. ALL STREET CUT RESTORATION SHALL BE IN CONFORMANCE WITH THE CITY OF LEE'S SUMMIT, MO. STANDARDS AND ENGINEER'S APPROVAL.
15. AT NO TIME SHALL ANY ACCESS TO OCCUPIED LOCAL BUSINESSES OR RESIDENCES BE CLOSED WITHOUT WRITTEN STATEMENTS FROM THE OWNER(S) AND THE ENGINEER'S APPROVAL.
16. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND MAINTENANCE (MARKING, SIGNS & DEVICES FOR DETOURS & LOCAL TRAFFIC CONTROLS) IN ACCORDANCE WITH AND APPROVAL OF THE STREETS AND TRAFFIC DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN A CITY APPROVED TRAFFIC (DETOUR) CONTROL PLAN PRIOR TO BEGINNING CONSTRUCTION.
17. THE CONTRACTOR MUST REMOVE, AT THEIR COST, ANY UNSUITABLE SUBSURFACE SOIL WHICH WOULD NOT BE ABLE TO SUPPORT ANY PROPOSED PUBLIC IMPROVEMENT. BACKFILL SHALL BE ACCOMPLISHED IN ACCORDANCE WITH LEE'S SUMMIT, MO STANDARDS AND GUIDLINES
18. ALL WORK OCCURRING INSIDE STATE (MODOT) RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH MODOT REQUIREMENTS.
19. PROVIDE EXPANSION JOINT AT ALL PC & PT OF CURB AND GUTTER.
20. PROVIDE CURB CONTRACTION JOINTS AT 10' MAXIMUM CENTERS.

COLUMN GRID LAYOUT

GRID INTERSECTION	NORTHING	EASTING	NOTES
A.1 / 1.0	997969.82	2801261.46	1,2
A.5 / 1.10	997714.23	2801382.12	1,2
	-	-	-

NOTES:
1. EXACT BUILDING LAYOUT AND DIMENSIONS SHALL BE COORDINATED WITH AND BASED ON ARCHITECTURAL AND STRUCTURAL DRAWINGS.
2. COLUMN GRID AS SHOWN PROVIDED BY DLR GROUP

NORTH

DIFFERENCE BETWEEN PLAN NORTH AND TRUE NORTH IS 0°

30' 0' 30' 60'

SCALE : 1 INCH = 30 FEET

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STATE OF MISSOURI
REGISTERED ENGINEER
HAGOS ERMIAS ANDEBRHAN
NUMBER PE-2010011822
04/26/24

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CITY COMMENTS	03.29.24	4
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OVERALL SITE PLAN

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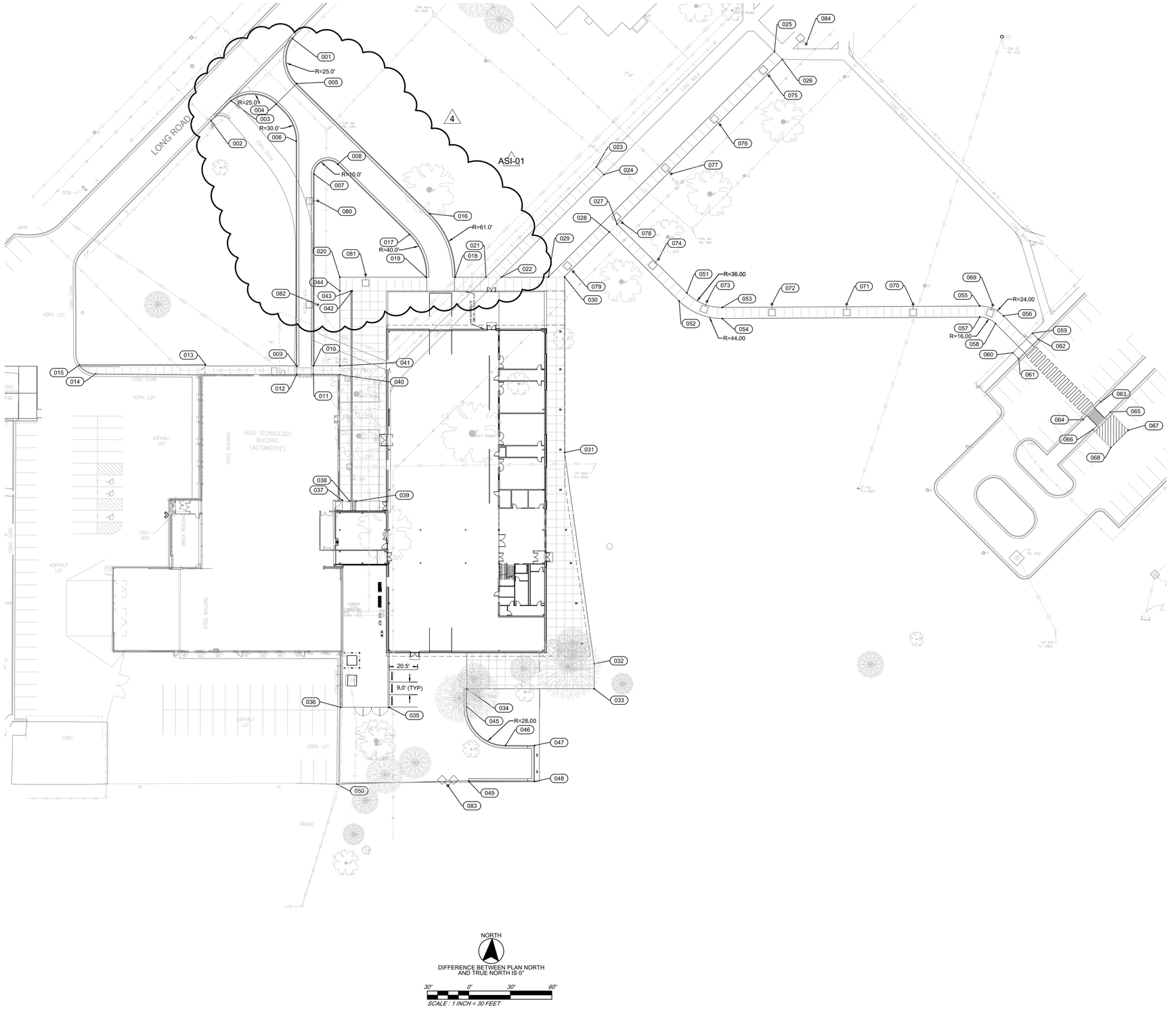

4
ASI-01

Point Table		
Point #	Northing	Easting
001	998151.45	2801187.03
002	998090.21	2801130.22
003	998105.26	2801144.18
004	998103.70	2801176.74
005	998119.00	2801191.12
006	998077.35	2801192.00
007	998053.89	2801205.68
008	998061.53	2801222.46
009	997914.77	2801197.23
010	997915.48	2801209.22
011	997909.50	2801209.39
012	997909.15	2801197.40
013	997914.09	2801131.17
014	997905.17	2801052.11
015	997911.31	2801040.20
016	998027.81	2801289.99
017	998012.37	2801275.75
018	997982.54	2801309.67
019	997981.92	2801288.68
020	997980.11	2801226.41
021	997983.19	2801331.95
022	997983.51	2801343.06
023	998065.08	2801409.24
024	998059.72	2801414.93
025	998152.17	2801535.51
026	998146.67	2801541.32
027	998024.24	2801425.53
028	998018.43	2801420.03
029	997984.60	2801377.03
030	997984.84	2801388.76
031	997858.16	2801392.45
032	997706.21	2801418.23
033	997688.16	2801418.76
034	997685.48	2801326.75
035	997670.41	2801271.09
036	997669.42	2801236.20
037	997819.02	2801232.98
038	997818.52	2801238.15
039	997818.67	2801243.15
040	997909.65	2801228.41
041	997916.06	2801228.27
042	997970.38	2801235.69
043	997970.35	2801234.70
044	997970.11	2801226.70
045	997672.60	2801327.11
046	997645.41	2801355.89
047	997646.00	2801376.88
048	997620.01	2801377.62
049	997618.66	2801330.14
050	997613.96	2801234.95
051	997975.92	2801477.33
052	997970.07	2801471.87
053	997966.26	2801503.13
054	997958.27	2801503.41
055	997972.71	2801689.05
056	997966.12	2801706.42
057	997964.72	2801689.33
058	997960.32	2801700.91
059	997954.17	2801727.70
060	997939.66	2801713.93
061	997935.50	2801718.30
062	997950.00	2801732.08
063	997905.93	2801778.50
064	997892.79	2801766.16
065	997898.86	2801785.60
066	997885.92	2801773.30
067	997886.11	2801798.95
068	997873.17	2801786.66
069	997973.58	2801698.51
070	997972.62	2801640.95
071	997971.22	2801592.97
072	997969.64	2801538.99
073	997970.30	2801492.04
074	997999.70	2801456.10
075	998134.44	2801532.12
076	998098.07	2801497.81
077	998061.63	2801463.57
078	998025.33	2801429.19
079	997988.96	2801394.88
080	998034.73	2801208.86
081	997982.32	2801244.96
082	997959.76	2801211.04
083	997615.10	2801315.15
084	998158.25	2801558.28

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SITE LAYOUT PLAN

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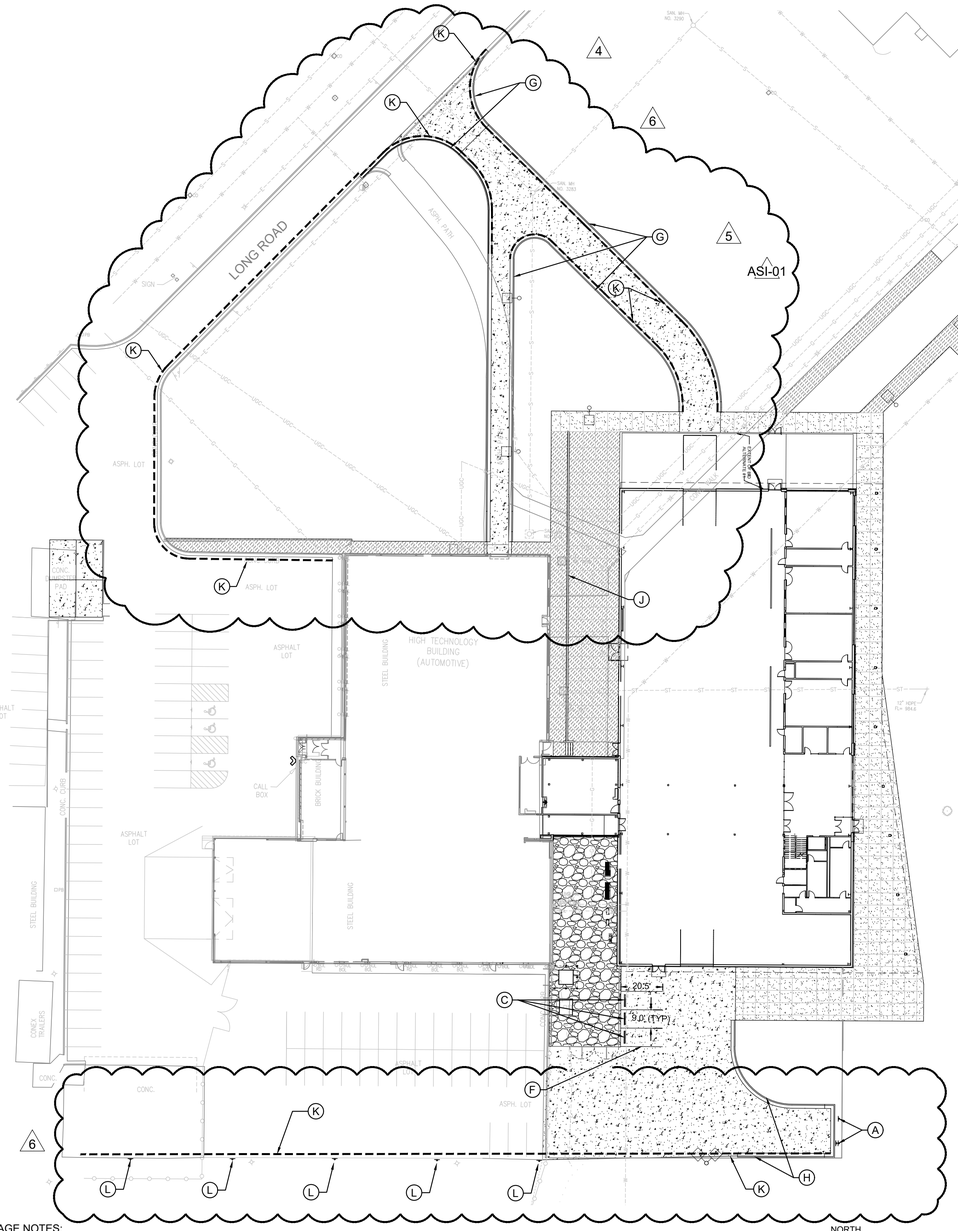
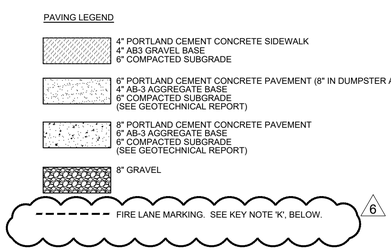
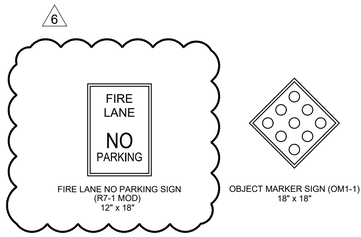




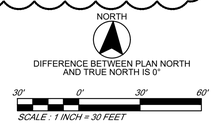
KEY NOTES:

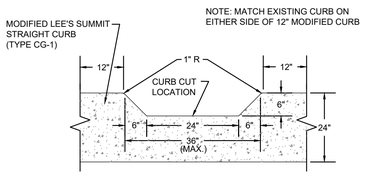
- (A) OBJECT MARKER SIGN - (OM1-1 18" x 18")
- (B) CURB OPENING (SEE DETAIL 1 THIS SHEET)
- (C) PARKING WHEELSTOP (SEE DETAIL 2 THIS SHEET)
- (D) NEW CROSSWALK STRIPING (WHITE). CROSSWALK BARS SHALL BE 24" WIDE AND 10' LONG WITH 2' BETWEEN BARS. ALIGN NEW CROSSWALK WITH RAMPS.
- (E) ALL STRIPING TO BE 4" WIDE WITH 2' BETWEEN DIAGONAL STRIPES.
- (F) 4" SOLID WHITE (TYP)
- (G) LEE'S SUMMIT TYPE CG-1 CURB
- (H) LEE'S SUMMIT TYPE CG-1 DRY CURB
- (I) CONCRETE STAIR AND HANDRAIL (SEE DETAIL 3 THIS SHEET)
- (J) COURTYARD WALL AND SIDEWALKS (SEE DETAIL 4 THIS SHEET)
- (K) ALL CURBS AND CURB ENDS SHALL BE PAINTED RED WITH FOUR INCH (4") WHITE LETTERING STATING "FIRE LANE—NO PARKING". WORDING SHALL NOT BE SPACED MORE THAN FIFTEEN FEET (15') APART. WHERE NO CURB EXISTS OR A ROLLED CURB IS INSTALLED, A 6-INCH (6") WIDER PAINTED RED STRIPE APPLIED TO THE CONCRETE OR ASPHALT WITH FOUR INCH (4") WHITE LETTERING STATING "FIRE LANE—NO PARKING".
- (L) A SIGN TWELVE (12") WIDE AND EIGHTEEN INCHES (18") IN HEIGHT SHALL BE MOUNTED ON A METAL POST SET IN CONCRETE AT A MINIMUM DEPTH OF EIGHTEEN INCHES (18") SET BACK ONE FOOT (1') IN FROM THE EDGE OF THE ROADWAY WITH THE BOTTOM OF THE SIGN BEING SEVEN FEET (7') FROM FINISHED GRADE. SIGNS SHALL FACE ONCOMING TRAFFIC. SPACING BETWEEN SIGNS SHALL NOT EXCEED FIFTY FEET (50') BETWEEN SIGNS. SIGNS SHALL BE REFLECTIVE MATERIAL WITH A WHITE COLOR BACKGROUND WITH SYMBOLS, LETTERS AND BORDER IN RED COLOR. "FIRE LANE—NO PARKING".



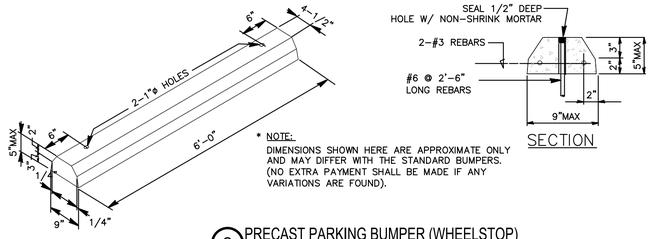
GENERAL SIGNAGE NOTES:

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE LOCATED AS SHOWN ON THE PLANS. FINAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER OR CITY INSPECTOR AS NECESSARY.
3. ALL SIGNS SHALL BE MOUNTED WITH THE BOTTOM SEVEN (7) FEET ABOVE THE ADJACENT TOP OF CURB.
4. SIGNS PLACED ON THE SIDE OF THE ROAD SHALL TYPICALLY BE PLACED TWO (2) FEET FROM THE BACK OF CURB.
5. ALL POSTS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION TO COMPLY WITH THE REQUIREMENTS OF ASTM A-123 AND POWDER COATED WITH GREEN COLOR.
6. ALL STANDARD SIGN STEEL POSTS SHALL HAVE A UNIFORM CROSS SECTION AND THE FLANGESAT THE OPEN END OF THE "U" SHALL BE FLAT AND IN THE SAME PLANE. THE BACK OF THE POST SHALL BE FLAT AND PARALLEL TO THE PLANE OF THE FLANGES. ROUND HOLES 3/8 INCH DIAMETER SHALL BE PUNCHED OR DRILLED ON CENTERLINE AT ONE (1) INCH SPACING STARTING ONE (1) INCH FROM THE TOP OF THE POST.
7. WHERE SIGNS ARE TO BE INSTALLED IN SIDEWALK, THE CONTRACTOR SHALL INSTALL A 6 INCH LONG SECTION OF 4 INCH DIAMETER SCHEDULE 40 PVC CONDUIT PRIOR TO PAVING. THE CONDUIT SHALL BE BACKFILLED WITH A GRANULAR MATERIAL AND THE TOP OF CONDUIT SHALLBE FLUSH WITH THE PAVED SURFACE. REFER TO PLANS FOR LOCATION OF SIGN IN THE SURFACE.
8. SIGNS REMOVED SHALL BE SALVAGED AND RETURNED TO OWNER.
9. THE EXACT LOCATIONS OF SIGNS CAN BE DETERMINED DURING CONSTRUCTION PER THE ENGINEER'S DIRECTION.



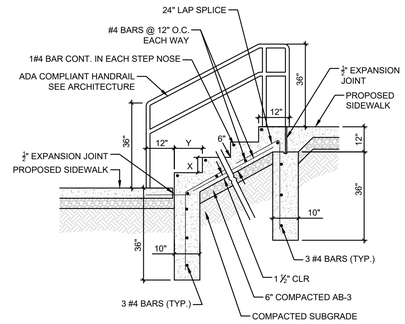


1 CURB OPENING IN LEE'S SUMMIT TYPE CG-1 CURB
NOT TO SCALE

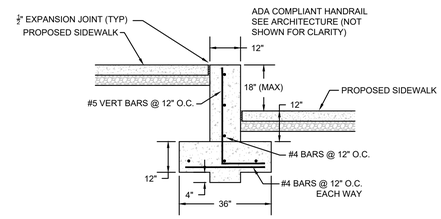


* NOTE:
DIMENSIONS SHOWN HERE ARE APPROXIMATE ONLY AND MAY DIFFER WITH THE STANDARD BUMPERS. (NO EXTRA PAYMENT SHALL BE MADE IF ANY VARIATIONS ARE FOUND).

2 PRECAST PARKING BUMPER (WHEELSTOP)
NOT TO SCALE



3 CONCRETE STAIR AND HANDRAIL
NOT TO SCALE



4 COURTYARD WALL AND SIDEWALKS
NOT TO SCALE

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FDP COMMENTS	06.27.24	6

13-23128-00

SITE PAVING, STRIPING, AND SIGNAGE PLAN

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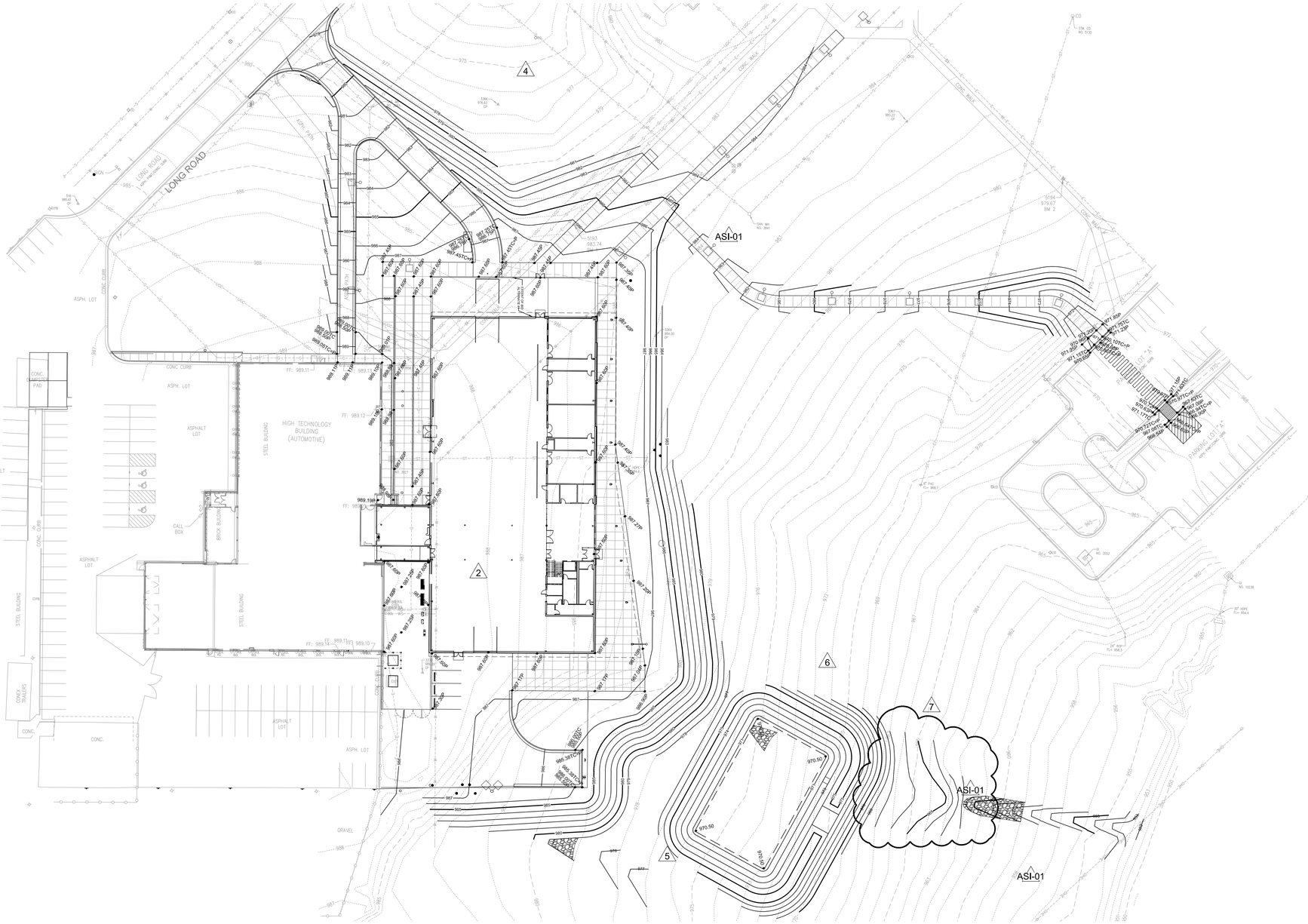

GRADING NOTES:

1. THE SIZE, LOCATION AND NATURE OF EXISTING UTILITIES AS SHOWN ON THESE DRAWINGS HAS BEEN OBTAINED FROM INFORMATION PROVIDED BY THE UTILITY COMPANIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ACTIVITIES WITH THE APPLICABLE UTILITIES, AND FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING UNFORESEEN AND UNKNOWN UTILITIES, PRIOR TO CONSTRUCTION. UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. UNLESS OTHERWISE INDICATED IN PLANS OR TECHNICAL SPECIFICATIONS, ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND GEOTECHNICAL REPORTS TO BE PROVIDED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACCESS TO THE SITE TO ONE LOCATION, UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER.
5. THE CONTRACTOR SHALL PROMPTLY CLEAN PUBLIC ROADWAYS OF ALL MUD AND CONSTRUCTION DEBRIS RESULTING OF CONSTRUCTION ACTIVITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD STAKING.
7. BOLD CONTOUR LINES AND BOLD SPOT ELEVATIONS REPRESENT FINISHED GRADE AT PROJECT COMPLETION, (I.E. THE TOP OF FINISHED GRADE, TOP OF PAVEMENT OR TOP OF CURB).
8. ALL SPOT ELEVATIONS ARE PVMT. ELEVATIONS UNLESS NOTED OTHERWISE. SPOT ELEVATIONS FOLLOWED BY HP INDICATE HIGH POINTS, SPOT ELEVATIONS FOLLOWED BY TC INDICATES TOP OF CURB ELEVATION, SPOT ELEVATIONS NOTED TC = P INDICATE THAT TOP OF CURB ELEVATION EQUALS PAVEMENT ELEVATION.
9. SPOT ELEVATION CALL OUTS MAY BE TRUNCATED (i.e 55,50 MEANS 955,50),
10. ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.
11. FOR BORING INFORMATION, SEE THE GEOTECHNICAL REPORT FOR THIS PROJECT.

LEGEND

TC	DENOTES TOP OF CURB ELEVATION
P	DENOTES TOP OF PAVEMENT ELEVATION
TC=P	DENOTES TOP OF CURB ELEVATION AND TOP OF PAVEMENT ELEVATION ARE EQUAL

NORTH

30" 0" 30" 60"

SCALE : 1 INCH = 30 FEET

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ASI-01	04.30.24	
FDP COMMENTS	06.27.24	6
FDP COMMENTS	07.12.24	7

13-23128-00

OVERALL GRADING PLAN

C3.10

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PROPERTY DESCRIPTION (PER JACKSON COUNTY PARCEL VIEWER)

SEC-9 TWP-47 RNG-32 --- PT NE 1/4 DAF: BEG NE COR SD 1/4 TH W ALG N LI SEC 9 2094.87' TH S 03 DEG 15 MIN 09 SEC W 515.17' TO TRU POB. TH CONT S 03 DEG 15 MIN 09 SEC W 2353.78' TH N 57 DEG 19 MIN 13; SEC E 391.38' TH S 88 DEG 13 MIN 46 SEC E 1486.29' TH N 3 DEG 23 MIN 20 SEC E 322' S 87 DEG 50 MIN 38 SEC E 269.77' TH N 3 DEG 14 MIN 53 SEC E 2118.34 TH N 87 DEG 38 MIN 41 SEC W 1215.76' TH S 23 DEG; 09 MIN 27 SEC E 310.25' TH N 87 DEG 41 MIN 21 SEC E 409.46' TH S 2 DEG 19 MIN 21 SEC W 47.69' N 87 DEG 41 MIN 21 SEC E 583.30' TO TRU POB.

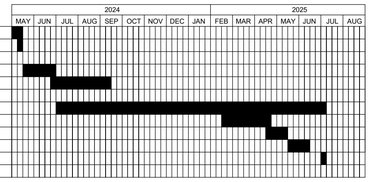
THE PROJECT IS LOCATED IN THE MOUSE CREEK WATERSHED

EROSION CONTROL QUANTITIES

ITEM NO.	PHASE	DESCRIPTION	QUANTITIES
1	I	ESC-01 TEMPORARY CONSTRUCTION ENTRANCE	1 EA.
2	I	ESC -03 SILT FENCE	2,200 L.F.
3	I	ESC-07 AREA INLET PROTECTION	2 EA.
4	I	CONCRETE WASHOUT AREA	100 S.F.
5	II	ESC-01 TEMPORARY CONSTRUCTION ENTRANCE	1 EA.
6	II	ESC -03 SILT FENCE	2,200 L.F.
7	II	ESC-07 AREA INLET PROTECTION	2 EA.
8	II	ESC-14 OUTLET PROTECTION	2 EA.
9	II	CONCRETE WASHOUT AREA	100 S.F.
10	III	ESC-01 TEMPORARY CONSTRUCTION ENTRANCE	1 EA.
11	III	ESC -03 SILT FENCE	2,200 L.F.
12	III	ESC-07 AREA INLET PROTECTION	2 EA.
13	III	ESC-14 OUTLET PROTECTION	2 EA.
14	III	CONCRETE WASHOUT AREA	100 S.F.

4

ANTICIPATED CONSTRUCTION SCHEDULE



1. THIS SCHEDULE IS BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER/OWNER AT THE TIME OF THIS PLAN PREPARATION. THE DEVELOPER IS ULTIMATELY RESPONSIBLE FOR CONSTRUCTION SEQUENCING AND SCHEDULING BASED ON ACTUAL JOB-SITE CONSTRAINTS. ANY CHANGES IN SCHEDULING THAT EFFECTS EROSION CONTROL PROTECTION SHALL BE DISCUSSED WITH THE CITY INSPECTOR.
2. THE ESTIMATED DURATION FOR THIS PROJECT IS 15 MONTHS.

GENERAL NOTES - EROSION CONTROL:

1. EROSION CONTROL MEASURES SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARD DETAILS PRESENTED IN THE LATEST EDITION OF AMERICAN PUBLIC WORKS ASSOCIATION (APWA), KANSAS CITY METROPOLITAN CHAPTER, SECTION 5100 AS REFERENCED ON THE PLAN DRAWINGS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL EROSION CONTROL MEASURES AS NEEDED IN THE EVENT THAT UNFORESEEN EROSION PROBLEMS ARISE OR IF CONSTRUCTION DEVIATES FROM THESE PLANS.
3. CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE LEE'S SUMMIT, MISSOURI "EROSION AND SEDIMENTATION CONTROL SPECIFICATIONS" AS CURRENTLY ADOPTED BY THE CITY.
4. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL DEVICES AND REMOVING SEDIMENT UNTIL TEMPORARY VEGETATION HAS BECOME ESTABLISHED.
6. AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED, FERTILIZED AND MULCHED IN ACCORDANCE WITH SECTION 2400 OF THE "STANDARD SPECIFICATIONS AND DESIGN CRITERIA" AS PREPARED BY THE AMERICAN PUBLIC WORKS ASSOCIATION AND AS ADOPTED BY THE CITY OF LEE'S SUMMIT, MISSOURI. TEMPORARY SEEDING AND FERTILIZING SHALL BE AT THE FOLLOWING RATES:

   SEEDING ANNUAL RYE GRASS @ 120 LBS./ACRE.
   FERTILIZING 10-10-10 FERTILIZER @ 850 LBS./ACRE.

7. EXPOSED SLOPES 3:1 AND STEEPER SHALL BE MULCHED WITH WHEAT OR OAT STRAW.
8. TEMPORARY SEEDING AND MULCHING SHALL CLOSELY FOLLOW GRADING OPERATIONS AND UNDER NO CIRCUMSTANCE SHALL MORE THAN THIRTY (30) CALENDAR DAYS ELAPSE BETWEEN GRADING AND SEEDING ACTIVITIES. WINTER WHEAT SEEDING MAY BE USED DURING COLD WEATHER.
9. THE CONTRACTOR SHALL MAINTAIN SEEDED AND MULCHED AREAS UNTIL THE TEMPORARY VEGETATION BECOMES ESTABLISHED.
10. EROSION CONTROL DEVICES WHICH ARE REMOVED TO PERMIT CONTRACTOR ACCESS SHALL BE REPLACED AT THE END OF THE DAY.
11. TOTAL DISTURBED AREA IS APPROXIMATELY 3.21 ACRES.
12. SOILS IN THE PROJECT AREA ARE CLASSIFIED AS SOIL GROUP 30080 - GREENTON SILTY CLAY LOAM, 5 TO 9 PERCENT SLOPES AND URBAN LAND - HARVESTER COMPLEX, 2 TO 9 PERCENT SLOPES

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REGISTERED PROFESSIONAL ENGINEER
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NUMBER PE-2010011822
04/26/24

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500 SW LONGVIEW RD,
LEE'S SUMMIT, MO, 64081

100% CONSTRUCTION DOCUMENTS
04.26.24

REVISIONS

CITY COMMENTS	03.29.24	4
ASI-01	04.26.24	

13-23128-00

SITE DISTURBANCE NOTES, QUANTITIES, AND SCHEDULE

C3.21

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EROSION CONTROL NOTES:

1. FOR GENERAL NOTES AND SCHEDULE, SEE SHEET C3.21/.

PHASE I DESCRIPTION OF WORK

- MOBILIZE & INSTALL SEDIMENT FENCE AND SEDIMENT CONTROL DEVICES
- REMOVAL OF IMPROVEMENTS AND FOUNDATIONS

LEGEND:

	20'X50' TEMPORARY CONSTRUCTION ENTRANCE	ESC-01
	SILT FENCE	ESC-03
	10'X10' CONSTRUCTION WASHOUT AREA	
OP	OUTLET PROTECTION	ESC-14
AI	AREA INLET PROTECTION	ESC-07

NORTH

DIFFERENCE BETWEEN PLAN NORTH AND TRUE NORTH IS 0°

30' 0' 30' 60'

SCALE : 1 INCH = 30 FEET

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ASI-01	04.26.24	

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EROSION CONTROL PLAN PHASE I

C3.22

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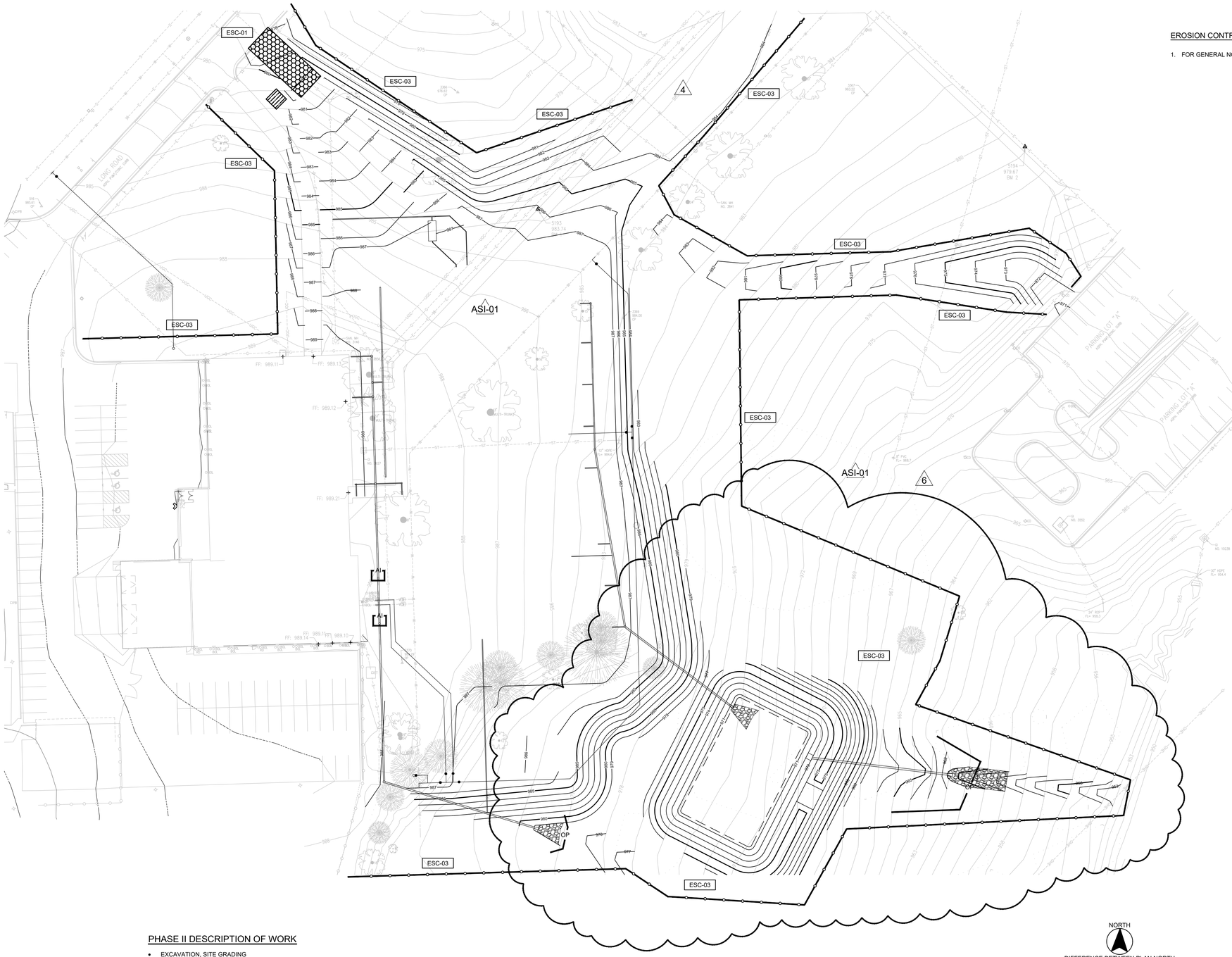

EROSION CONTROL NOTES:

1. FOR GENERAL NOTES AND SCHEDULE, SEE SHEET C3.21/.

PHASE II DESCRIPTION OF WORK

- EXCAVATION, SITE GRADING
- INSTALL SITE UTILITIES

LEGEND:

	20'X50' TEMPORARY CONSTRUCTION ENTRANCE	ESC-01
	SILT FENCE	ESC-03
	10'X10' CONSTRUCTION WASHOUT AREA	
OP	OUTLET PROTECTION	ESC-14
AI	AREA INLET PROTECTION	ESC-07

NORTH

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30' 0' 30' 60'

SCALE : 1 INCH = 30 FEET

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REVISIONS

CITY COMMENTS	03.29.24	4
ASI-01	04.30.24	
FDP COMMENTS	06.27.24	5

13-23128-00

EROSION CONTROL PLAN PHASE II

C3.23

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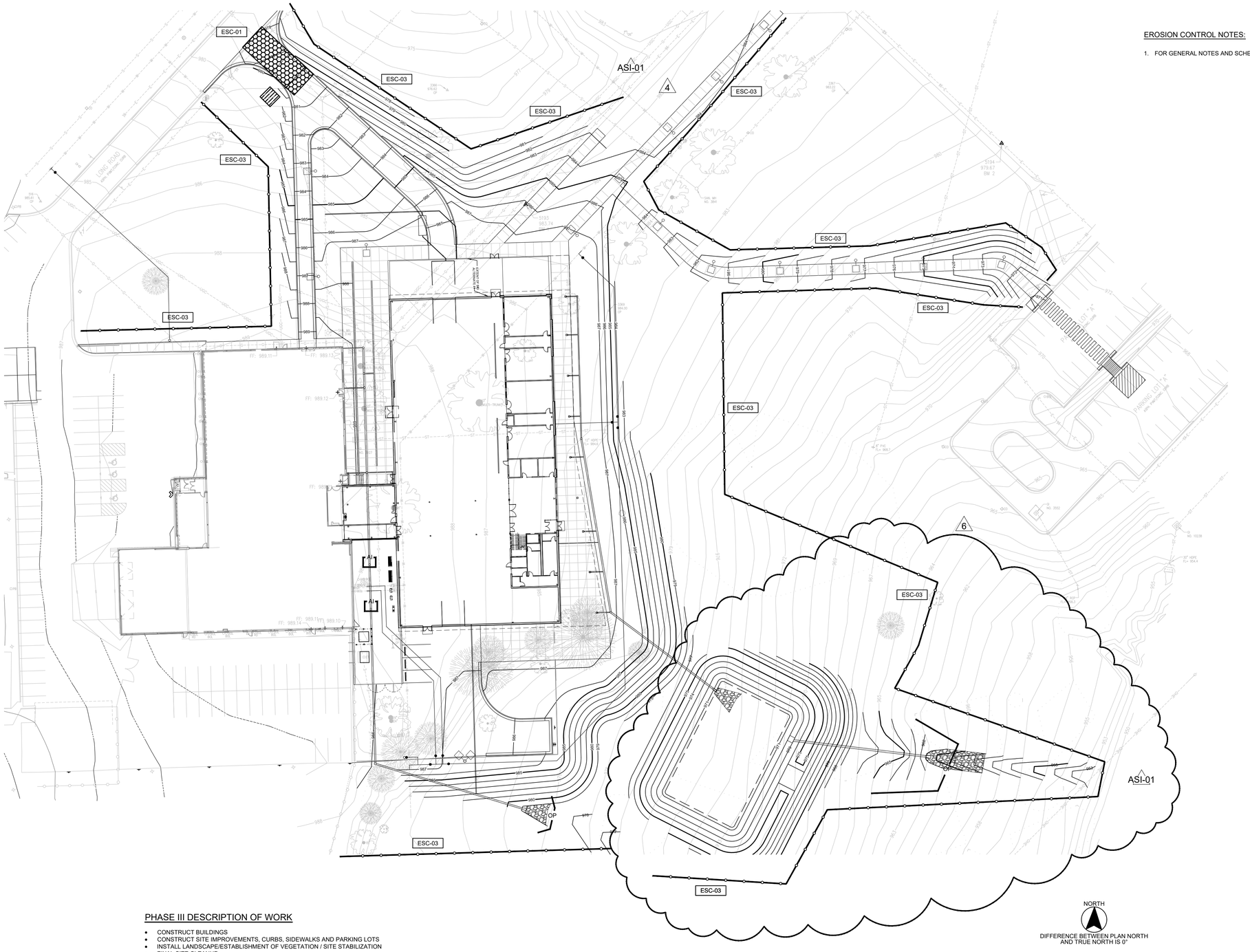

EROSION CONTROL NOTES:

1. FOR GENERAL NOTES AND SCHEDULE, SEE SHEET C3.21/.

PHASE III DESCRIPTION OF WORK

- CONSTRUCT BUILDINGS
- CONSTRUCT SITE IMPROVEMENTS, CURBS, SIDEWALKS AND PARKING LOTS
- INSTALL LANDSCAPE/ESTABLISHMENT OF VEGETATION / SITE STABILIZATION
- FINAL SITE CLEANUP
- REMOVAL OF EROSION CONTROL DEVICES

LEGEND:

	20'X50' TEMPORARY CONSTRUCTION ENTRANCE	ESC-01
	SILT FENCE	ESC-03
	10'X10' CONSTRUCTION WASHOUT AREA	
OP	OUTLET PROTECTION	ESC-14
AI	AREA INLET PROTECTION	ESC-07

ALL DISTURBED AREAS SHALL BE PREPPED FOR SEEDING/SODDING PER LEE'S SUMMIT/APWA 2400. APPLICATION OF SEED /SOD SHALL BE DONE IN ACCORDANCE WITH LEE'S SUMMIT/APWA 2400. THE SITE DISTURBANCE PERMIT SHALL BE MAINTAINED IN AN "OPEN" STATUS UNTIL FINAL ACCEPTANCE.

NORTH

DIFFERENCE BETWEEN PLAN NORTH AND TRUE NORTH IS 0°

30' 0' 30' 60'

SCALE : 1 INCH = 30 FEET

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REVISIONS

CITY COMMENTS	03.29.24	4
ASI-01	04.30.24	
FDP COMMENTS	06.27.24	5

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EROSION CONTROL PLAN PHASE III

C3.24

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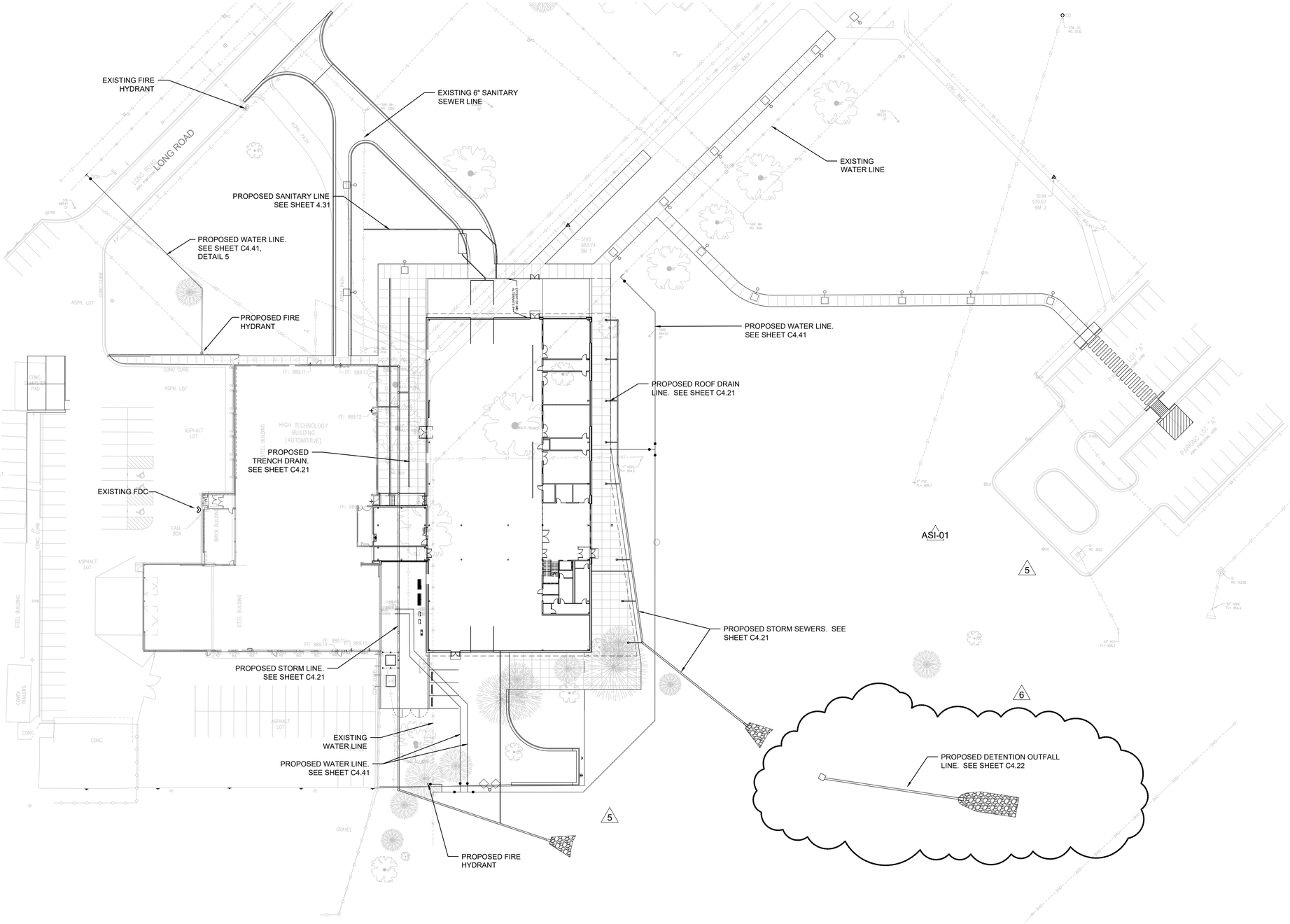

NORTH

DIFFERENCE BETWEEN PLAN NORTH AND TRUE NORTH IS 0°

30' 0' 30' 60'

SCALE : 1 INCH = 30 FEET

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REVISIONS

CITY COMMENTS	03.29.24	4
PDP RESPONSE	04.09.24	5
ASI-01	04.30.24	
FDP RESPONSE	06.27.24	6

Project Number

OVERALL UTILITY PLAN

C4.10

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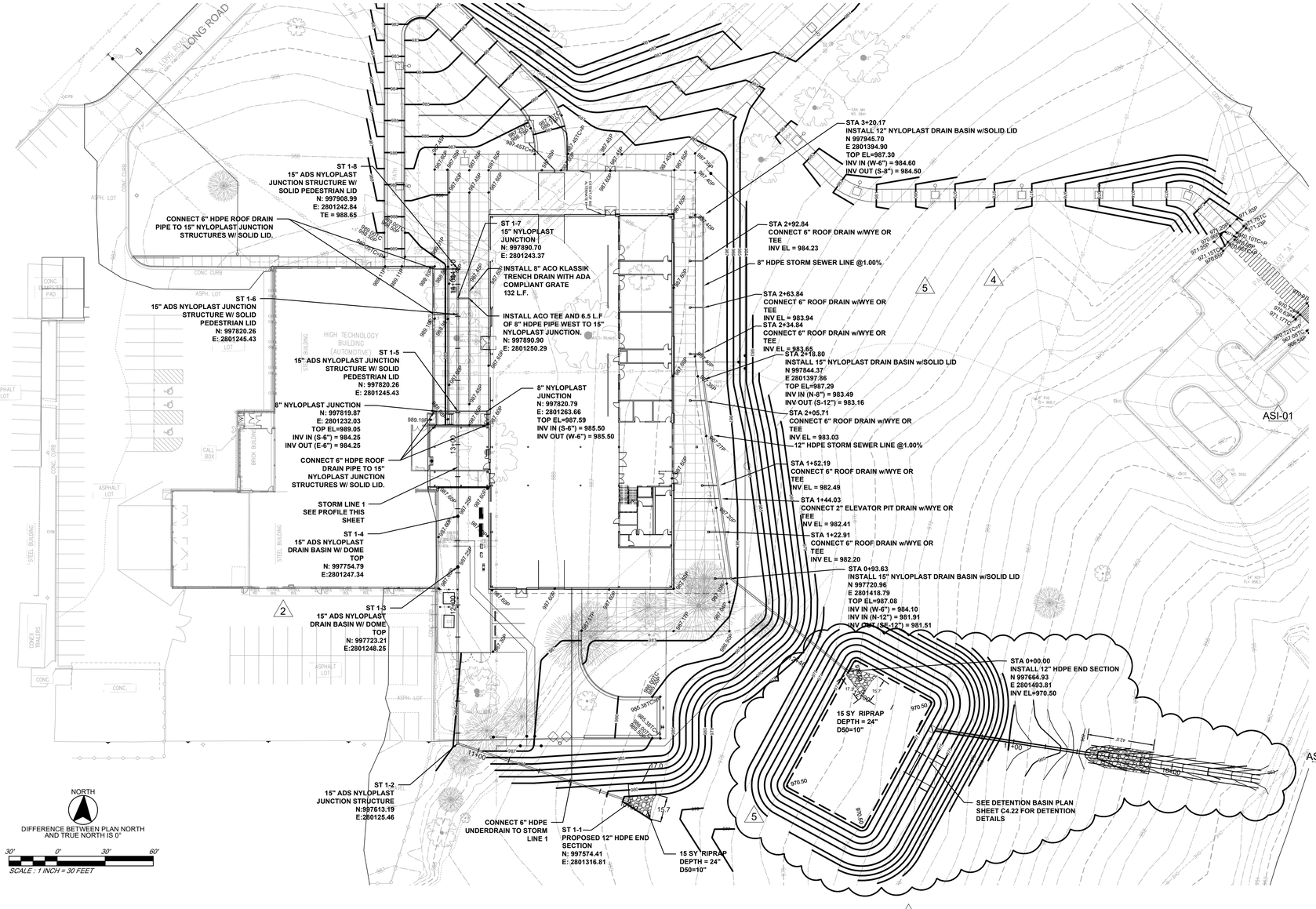

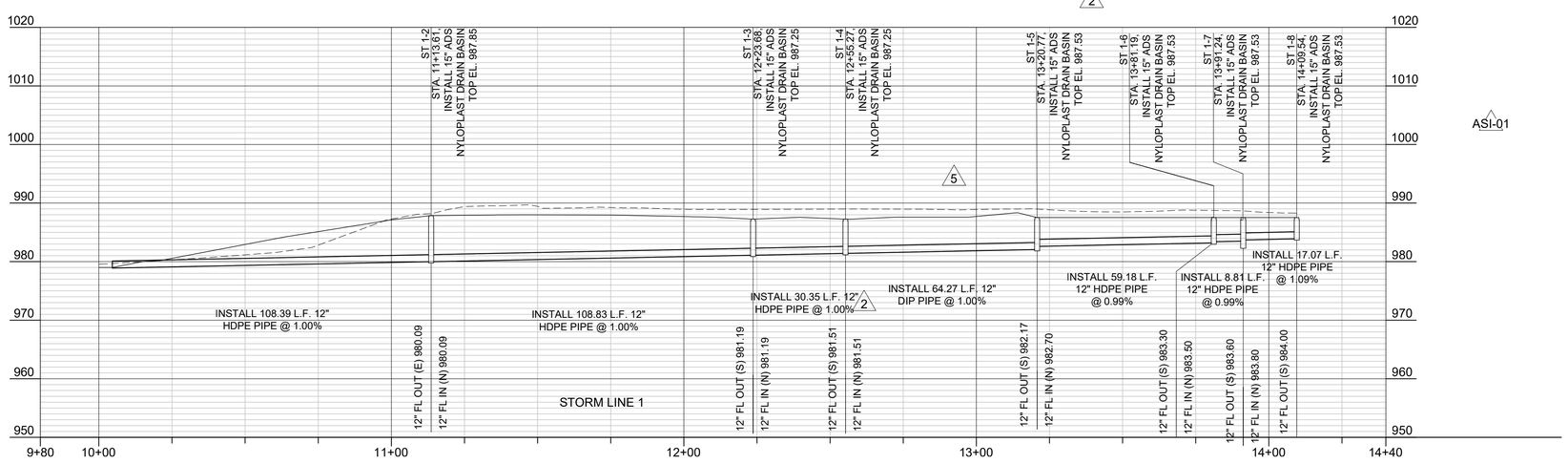

STORM SEWER SERVICE GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT, MO SPECIFICATIONS AND THE PROJECT SPECIFIC SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR CONSTRUCTION ACTIVITIES.
3. THE SIZE, LOCATION AND NATURE OF EXISTING UTILITIES AS SHOWN ON THESE DRAWINGS HAS BEEN OBTAINED FROM INFORMATION PROVIDED BY THE UTILITYOWNER/OPERATORS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ACTIVITIES WITH THE APPLICABLE UTILITIES, AND FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. CONTRACTOR SHALL ESTABLISH ALL HORIZONTAL AND VERTICAL CONTROL IN CONFORMANCE WITH THE PLANS. VARIATIONS WILL REQUIRE ADVANCE APPROVAL IN WRITING FROM THE ARCHITECT OR ENGINEER.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND INSTALL ALL FITTINGS SPECIFIED OR UNSPECIFIED, TO OBTAIN PROPER HORIZONTAL OR VERTICAL ALIGNMENT AND CONNECTION TO EXISTING SEWER SYSTEMS.
6. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
7. DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
8. THE CONTRACTOR SHALL NOT DAMAGE ANY PRIVATE PROPERTY. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING TO FINISHED GRADE, ANY MANHOLE TOPS, VALVE COVERS, METER COVERS AND ANY OTHER SURFACE PROJECTIONS TO REMAIN.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE VISUAL INSPECTION OF THE PROJECT AREA SO AS TO FAMILIARIZE HIMSELF WITH THE SCOPE OF THE WORK AND THE REQUIREMENTS FOR COMPLETING THE WORK.
11. ALL CONCRETE FLATWORK OR ASPHALTIC CONCRETE PAVEMENT TO BE REMOVED WHICH IS ADJACENT TO CONCRETE OR ASPHALTIC CONCRETE PAVEMENT TO REMAIN, SHALL BE FIRST CUT FULL DEPTH WITH A CONCRETE SAW SO AS TO FORM A NEAT EDGE AGAINST EXISTING PAVEMENT. THE JOINT BETWEEN EXISTING AND NEW CONCRETE SURFACES SHALL BE AN EXPANSION JOINT FILLED WITH 1/2 INCH THICK CELLULOSE FIBER. THE TOP 1/2 INCH OF THE JOINT SHALL BE CAULKED.
12. DEWATERING SYSTEMS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. GROUNDWATER SURFACES MUST BE MAINTAINED TWO FEET BELOW THE BOTTOM OF ANY OPEN EXCAVATION AT ALL TIMES. SUMP PUMPING WILL NOT BE ALLOWED UNDER ANY CIRCUMSTANCES. A DEWATERING PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
13. THE CONTRACTOR SHALL MAINTAIN AT THE PROJECT SITE SUFFICIENT SOIL MATERIALS AND EQUIPMENT TO BACKFILL ANY OPEN EXCAVATION WITHIN A 24 HOUR TIME PERIOD.

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REVISIONS

ADD O2	02.23.24	2
CITY COMMENTS	03.29.24	4
ASI-01	04.30.24	
FDP COMMENTS	06.27.24	6

13-23128-00

STORM SEWER PLAN

C4.21

Autodesk Docs://13-23128-00 MCC Automotive Institute/13-23128-00_MCC Automotive Center_AR_2022.rvt
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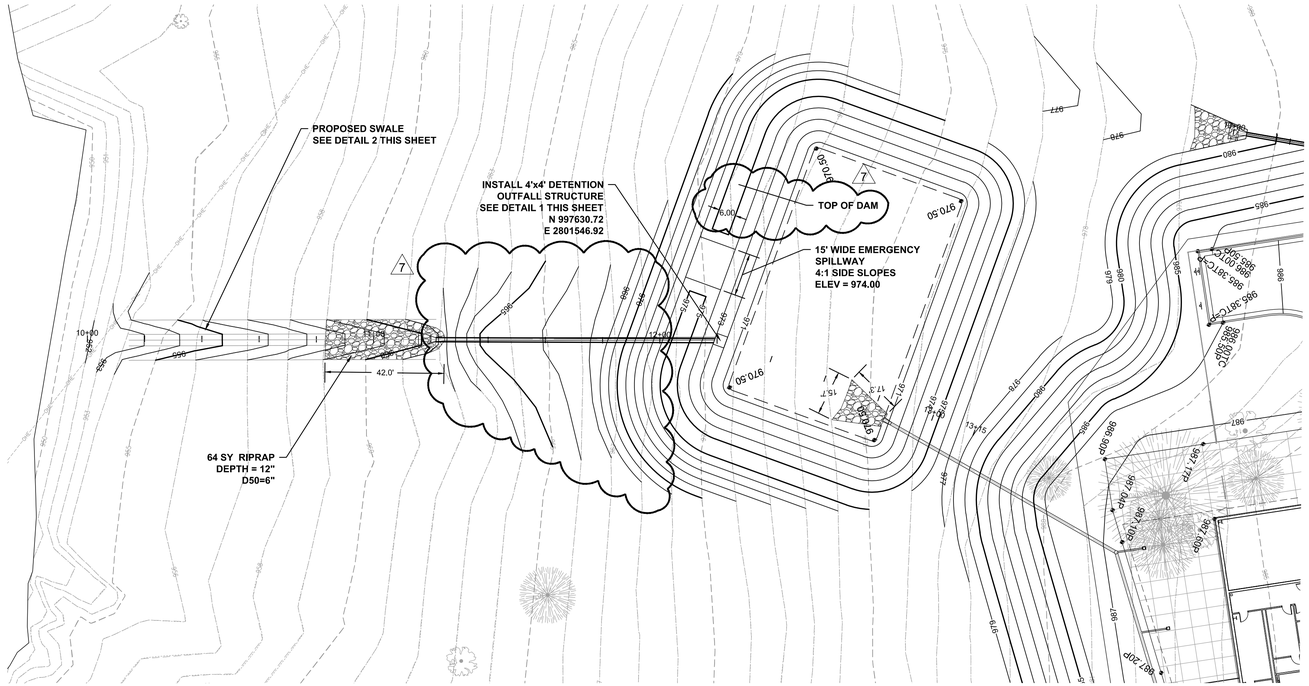
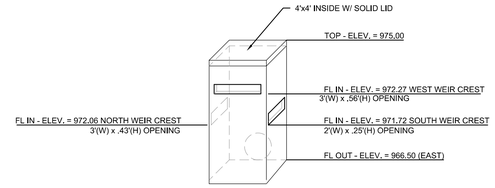


DIFFERENCE BETWEEN PLAN NORTH
AND TRUE NORTH IS 187°

0' 20'

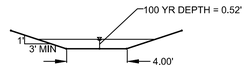
SCALE : 1 INCH = 20 FEET

NOTE: DETENTION BASIN TO BE CONSTRUCTED ALONG WITH EROSION AND SEDIMENT CONTROL DEVICES AND PRIOR TO BUILDING AND PARKING LOT. AN AS-BUILT DRAWING SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND ACCEPTANCE PRIOR TO ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY

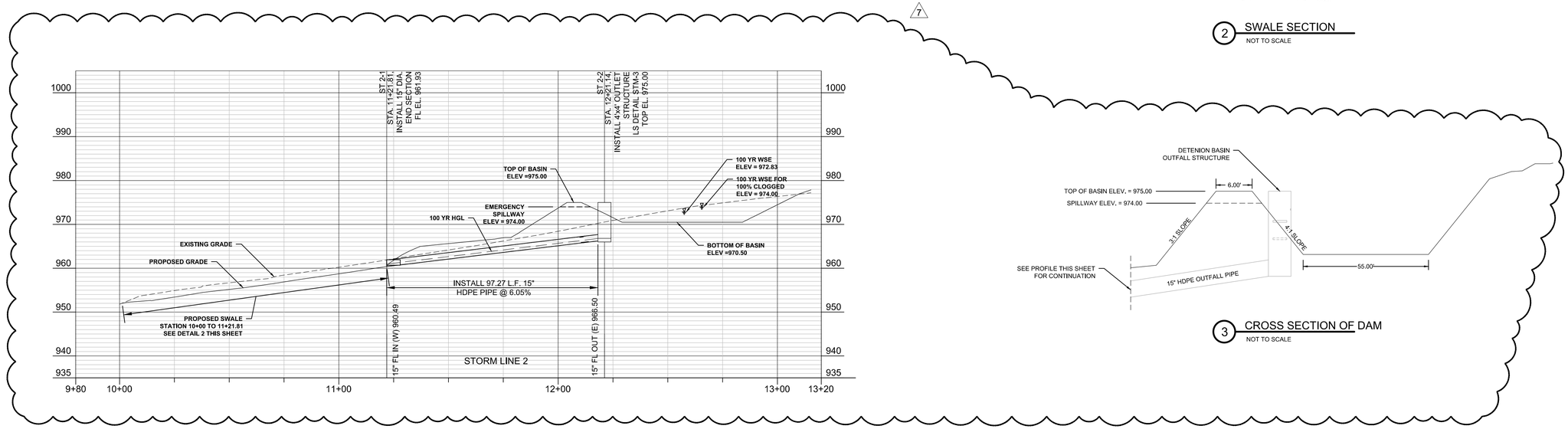


1 DETENTION BASIN OUTFALL STRUCTURE
NOT TO SCALE

NOTE: SEE DRAWING NUMBER STM-3 OF LEE'S SUMMIT STANDARD DETAILS FOR CONSTRUCTION DETAILS.



2 SWALE SECTION
NOT TO SCALE



3 CROSS SECTION OF DAM
NOT TO SCALE

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MCC AUTOMOTIVE INSTITUTE

METROPOLITAN COMMUNITY COLLEGE - LONGVIEW
500 SW LONGVIEW RD,
LEE'S SUMMIT, MO, 64081

100%
CONSTRUCTION
DOCUMENTS
04.30.24

REVISIONS

ADD O2	02.23.24	2
PDP RESPONSE	04.09.24	5
FDP COMMENTS	06.28.24	6
FDP COMMENTS	07.12.24	7

13-23128-00

STORMWATER
DETENTION
DETAILS

C4.22

Autodesk Docs://13-23128-00 MCC Automotive Institute/13-23128-00_MCC Automotive Center_AR_2022.rvt
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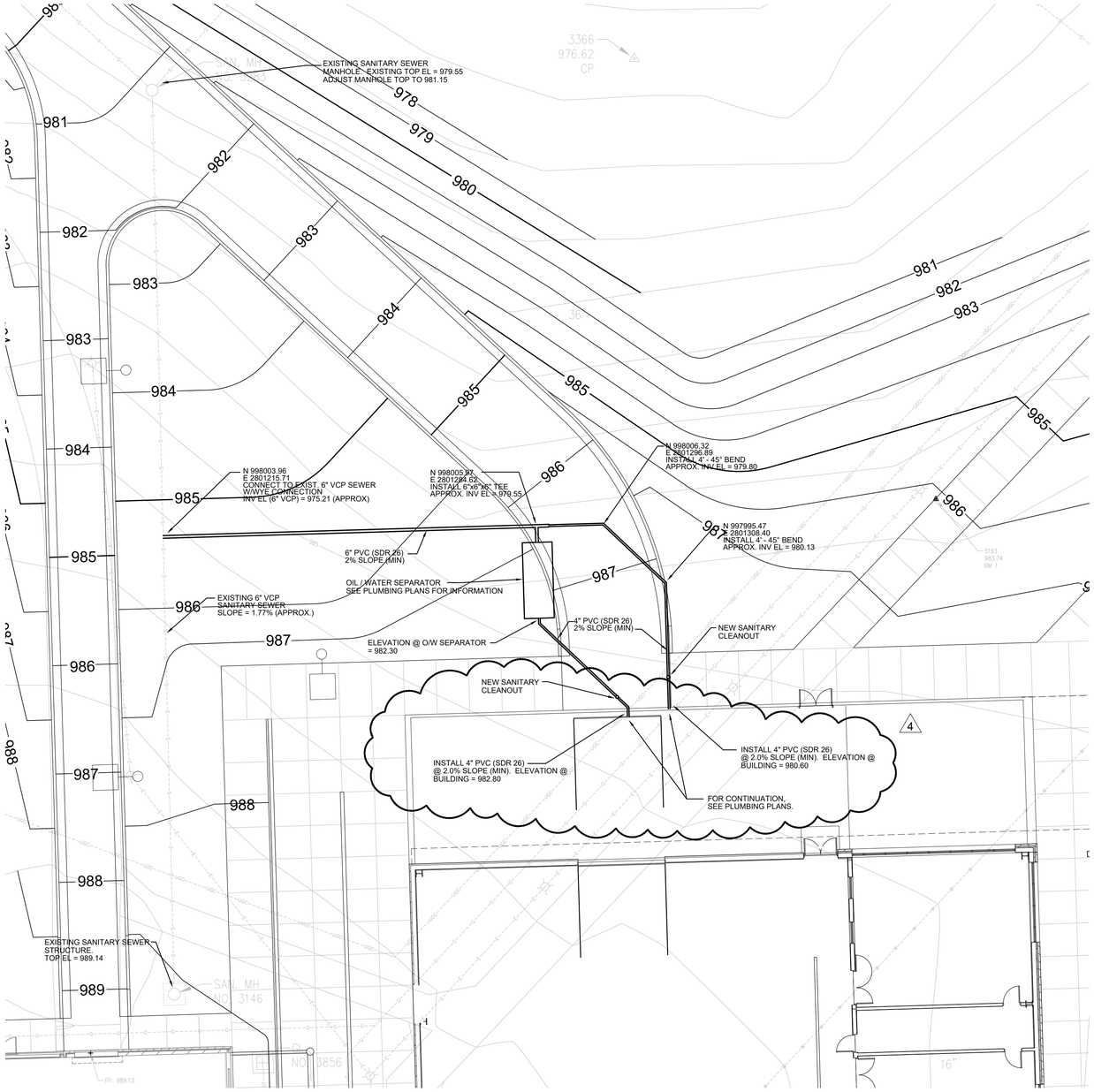
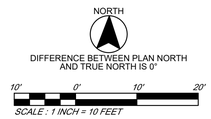


SANITARY SEWER SERVICE GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT, MO SPECIFICATIONS
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR CONSTRUCTION ACTIVITIES.
3. THE SIZE, LOCATION AND NATURE OF EXISTING UTILITIES AS SHOWN ON THESE DRAWINGS HAS BEEN OBTAINED FROM INFORMATION PROVIDED BY THE UTILITYOWNER/OPERATORS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ACTIVITIES WITH THE APPLICABLE UTILITIES, AND FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. CONTRACTOR SHALL ESTABLISH ALL HORIZONTAL AND VERTICAL CONTROL IN CONFORMANCE WITH THE PLANS. VARIATIONS WILL REQUIRE ADVANCE APPROVAL IN WRITING FROM THE ARCHITECT OR ENGINEER.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND INSTALL ALL FITTINGS SPECIFIED OR UNSPECIFIED, TO OBTAIN PROPER HORIZONTAL OR VERTICAL ALIGNMENT AND CONNECTION TO EXISTING SEWER SYSTEMS.
6. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
7. DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
8. THE CONTRACTOR SHALL NOT DAMAGE ANY PRIVATE PROPERTY. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING TO FINISHED GRADE, ANY MANHOLE TOPS, VALVE COVERS, METER COVERS AND ANY OTHER SURFACE PROJECTIONS TO REMAIN.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE VISUAL INSPECTION OF THE PROJECT AREA SO AS TO FAMILIARIZE HIMSELF WITH THE SCOPE OF THE WORK AND THE REQUIREMENTS FOR COMPLETING THE WORK.
11. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL AS-BUILT FIELD NOTES AND PLANS (REPRODUCIBLE) IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT, MISSOURI REQUIREMENTS.
12. ALL SANITARY SEWER WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE WATER POLLUTION CONTROL DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI, FOR ALL WORK ASSOCIATED WITH CONNECTING TO THE EXISTING PUBLIC SEWER MAIN.
13. ALL CONCRETE FLATWORK OR ASPHALTIC CONCRETE PAVEMENT TO BE REMOVED WHICH IS ADJACENT TO CONCRETE OR ASPHALTIC CONCRETE PAVEMENT TO REMAIN, SHALL BE FIRST CUT FULL DEPTH WITH A CONCRETE SAW SO AS TO FORM A NEAT EDGE AGAINST EXISTING PAVEMENT. THE JOINT BETWEEN EXISTING AND NEW CONCRETE SURFACES SHALL BE AN EXPANSION JOINT FILLED WITH 1/2 INCH THICK CELLULOSE FIBER. THE TOP 1/2 INCH OF THE JOINT SHALL BE CAULKED.
14. DEWATERING SYSTEMS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. GROUNDWATER SURFACES MUST BE MAINTAINED TWO FEET BELOW THE BOTTOM OF ANY OPEN EXCAVATION AT ALL TIMES. SUMP PUMPING WILL NOT BE ALLOWED UNDER ANY CIRCUMSTANCES. A DEWATERING PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
15. THE CONTRACTOR SHALL MAINTAIN AT THE PROJECT SITE SUFFICIENT SOIL MATERIALS AND EQUIPMENT TO BACKFILL ANY OPEN EXCAVATION WITHIN A 24 HOUR TIME PERIOD.
16. THE CONTRACTOR SHALL PERFORM ALL TRENCHING AND BACKFILLING OPERATIONS IN A WHICH SEGREGATES THE EXCAVATED MATERIALS BY SOIL TYPE. EXCAVATED MATERIALS SHALL BE PLACED AS BACKFILL AT THE SAME LOCATIONS WHERE THEY WERE ORIGINALLY EXCAVATED AND COMPACTED TO MATCH THE SURROUNDING SOILS.



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STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
HAGOS ERMIAS ANDEBRHAN
NUMBER PE-2010018227
04/26/24

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04.26.24

REVISIONS

CITY COMMENTS	03.29.24	4
ASI-01	04.26.24	

Project Number

SANITARY SEWER PLAN

C4.31

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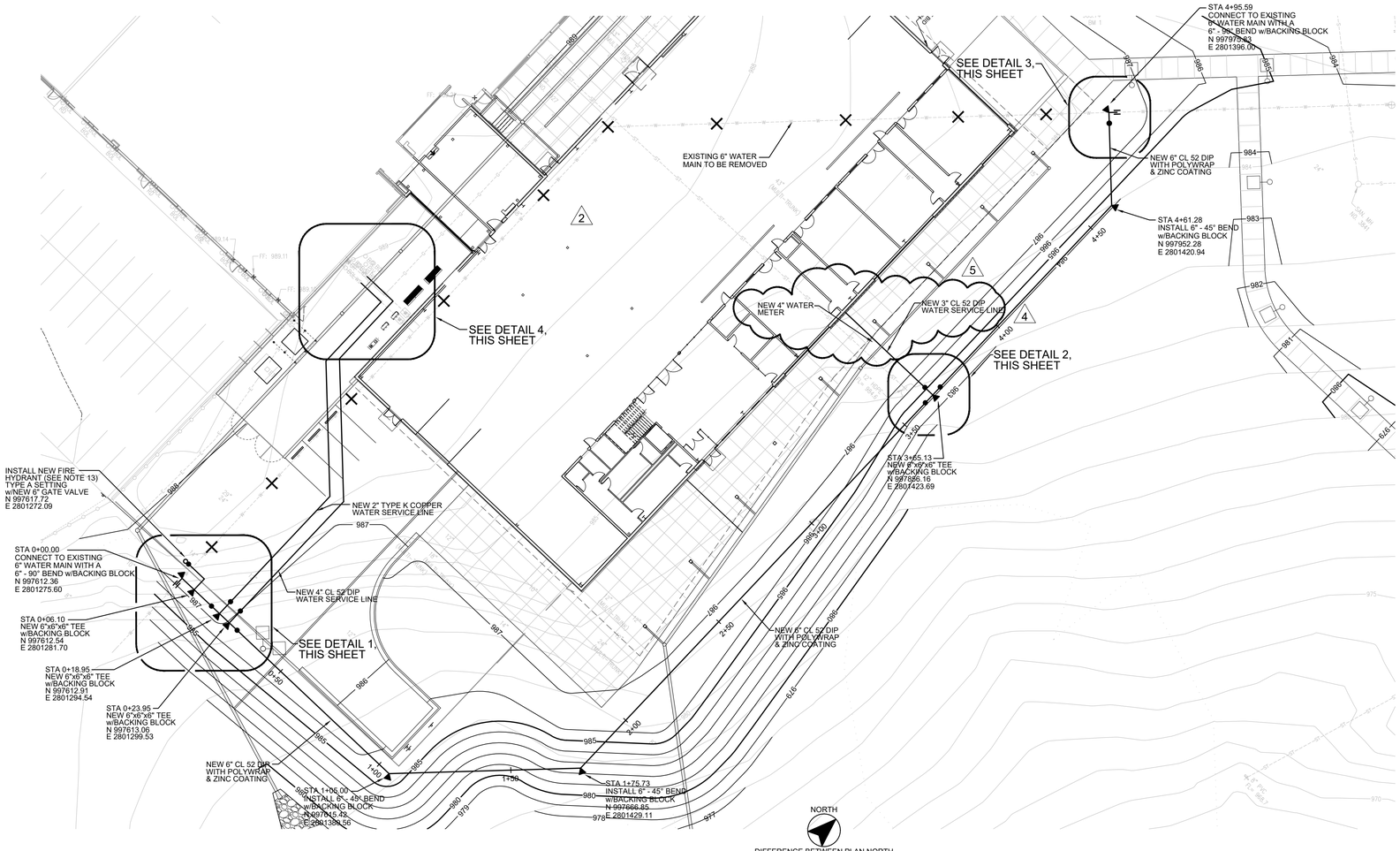
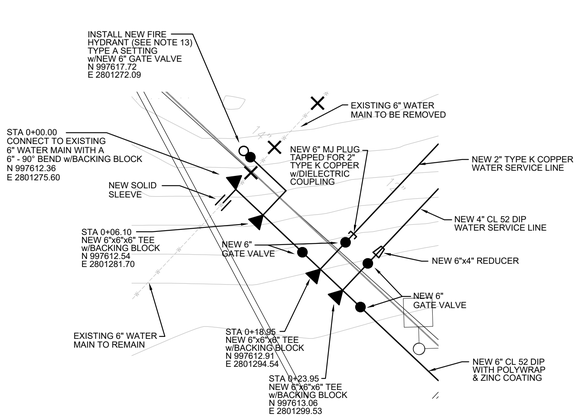
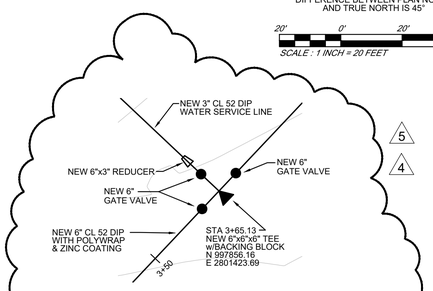


WATER SERVICE GENERAL NOTES

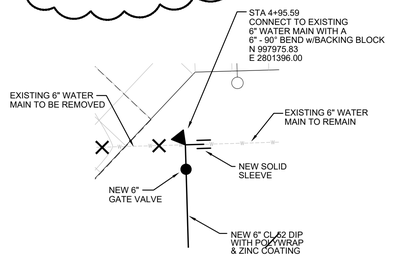
1. CONTRACTOR SHALL ESTABLISH ALL HORIZONTAL AND VERTICAL CONTROL IN CONFORMANCE WITH THE PLANS. VARIATIONS WILL REQUIRE ADVANCE APPROVAL IN WRITING FROM THE ARCHITECT OR ENGINEER.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND INSTALL ALL FITTINGS, SPECIFIED OR UNSPECIFIED, TO OBTAIN PROPER HORIZONTAL OR VERTICAL ALIGNMENT AND CONNECTION TO EXISTING UTILITIES.
3. THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS OR FROM FIELD SURVEY OF SURFACE PROJECTIONS. THESE LOCATIONS ARE APPROXIMATE ONLY. THEY DO NOT CONSTITUTE ACTUAL FIELD LOCATIONS. THE CONTRACTOR SHALL VERITY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR MAY ALSO UTILIZE THE FOLLOWING TOLL FREE PHONE NUMBER PROVIDED BY "MISSOURI ONE CALL SYSTEM, INC": 1-800-DIG-RITE.
5. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
6. DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
7. THE CONTRACTOR SHALL NOT DAMAGE ANY PRIVATE PROPERTY. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING TO FINISHED GRADE, ANY MANHOLE TOPS, VALVE COVERS, METER COVERS AND ANY OTHER SURFACE PROJECTIONS TO REMAIN.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE VISUAL INSPECTION OF THE PROJECT AREA SO AS TO FAMILIARIZE HIMSELF WITH THE SCOPE OF THE WORK AND THE REQUIREMENTS FOR COMPLETING THE WORK.
10. ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE STANDARDS AND SPECIFICATIONS OF THE LEE'S SUMMIT, MISSOURI WATER SERVICES DEPARTMENT.
11. SERVICE LINES SHALL HAVE A COVER OF NOT LESS THAN FOUR (4) FEET NOR MORE THAN FIVE (5) FEET UNLESS OBSTRUCTIONS REQUIRE DEEPER EXCAVATIONS FOR CLEARANCE.
12. ALL WATER SERVICE INSTALLATIONS INCLUDING BACKFLOW DEVICES ARE SUBJECT TO FIELD VERIFICATION AND APPROVAL BY THE WATER DEPARTMENT INSPECTOR.
13. NEW FIRE HYDRANT (MATERIAL AND INSTALLATION) SHALL BE PER SECTION 3900 OF THE LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS.



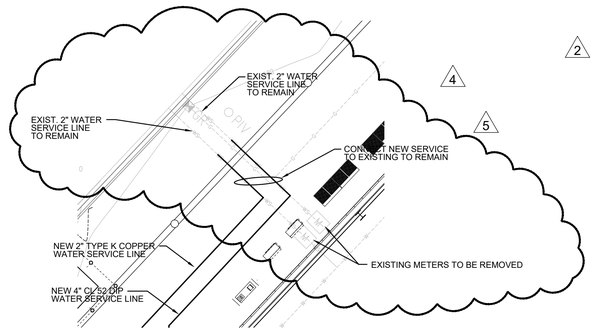
1 WATER MAIN CONNECTION DETAIL
SCALE: 1" = 10'



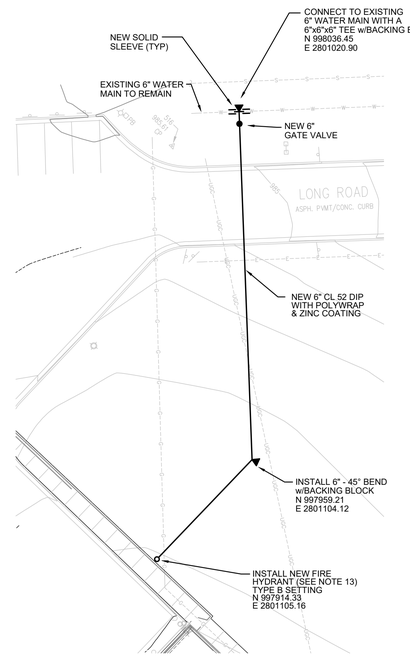
2 WATER MAIN CONNECTION DETAIL
SCALE: 1" = 10'



3 WATER MAIN CONNECTION DETAIL
SCALE: 1" = 10'



4 WATER MAIN CONNECTION DETAIL
SCALE: 1" = 10'



5 WATER MAIN CONNECTION DETAIL
SCALE: 1" = 20'

NORTH
DIFFERENCE BETWEEN PLAN NORTH AND TRUE NORTH IS 45°

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STATE OF MISSOURI
HAGOS ERMIAS ANDEBRHAN
NUMBER PE-2010011822
PROFESSIONAL ENGINEER

06/27/24

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04.30.24

REVISIONS

ADD 02	02.23.24	2
CITY COMMENTS	03.29.24	4
ASI-01	04.30.24	
FDP COMMENTS	06.27.24	5

13-23128-00

WATER MAIN & SERVICE PLAN

C4.41

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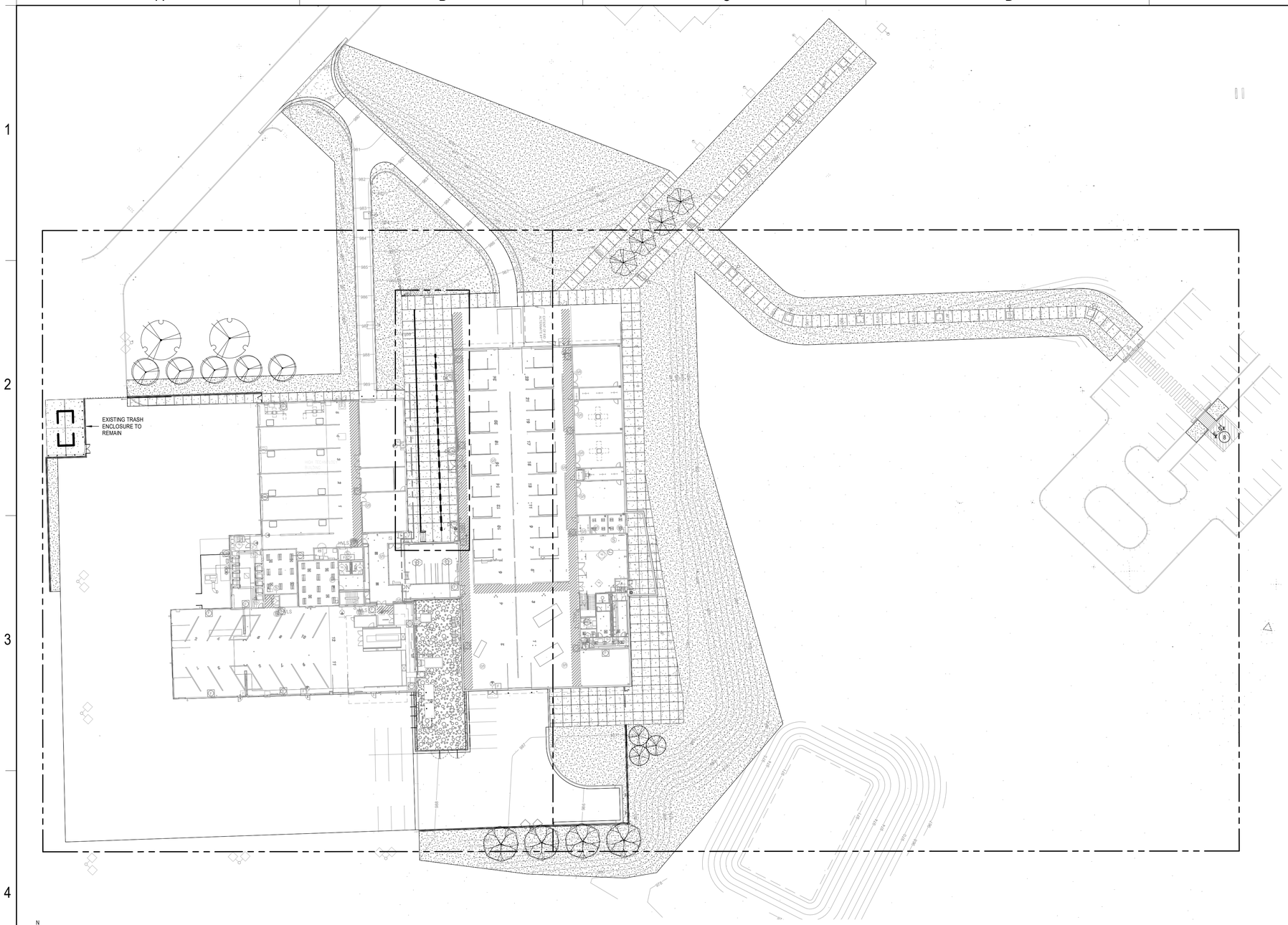

OVERALL SITE PLAN
SCALE: 1" = 30'-0"

LAYOUT NOTES:

1. THE CONTRACTOR WILL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND STRUCTURES BEFORE COMMENCING WORK. THE CONTRACTOR WILL CONDUCT HIS WORK SO AS TO PREVENT INTERRUPTION OF SERVICE OR DAMAGE TO THEM. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES AND STRUCTURES.

2. ALL CURBS RAMPS TO BE BUILT IN COMPLIANCE WITH FEDERAL ACCESSIBILITY STANDARDS.

3. PAVING DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

4. ALL WORK WILL BE IN ACCORDANCE WITH OSHA CODES AND STANDARDS. NOTHING INDICATED ON THESE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY REGULATIONS.

5. VERIFY LAYOUT COORDINATES PRIOR TO CONSTRUCTION.

6. CONTRACTOR TO SUPPLY AND INSTALL ALL REQUIRED SLEEVES UNDER PAVING AND WALKS.

7. PLACE DOWELLED EXPANSION JOINTS AT VERTICAL ELEMENTS (BUILDING, COLUMNS, WALLS, BACK OF CURBS, ETC.) AND STAIRS AND RAMPS AND APPROXIMATELY EVERY 50 LINEAR FEET. rE: CIVIL DRAWINGS.

8. WHERE NEW PAVEMENTS ARE CALLED FOR, PROVIDE AN EXPANSION JOINT AROUND ALL EXISTING UTILITIES, MANHOLES, POLES, LIGHTS, ETC.

9. SAWCUT JOINTS BETWEEN CRITICAL POINTS ARE TO BE EQUALLY SPACED, OR AS SHOWN ON DRAWINGS.

10. CONTRACTOR TO CONFIRM HORIZONTAL CONTROL POINTS IN THE FIELD. CONTRACTOR TO VERIFY HORIZONTAL CONTROL POINTS WITH HORIZONTAL COORDINATE POINTS.

11. ALL EXPOSED CONCRETE WALLS WILL HAVE A CONSISTENT RUBBED FINISH. CONTRACTOR TO PROVIDE MINIMUM 4 SQUARE FEET MOCK-UP FOR REVIEW AND APPROVAL.

12. CONTRACTOR TO PROVIDE MOCK-UP (4'X4') OF ALL DECORATIVE AND TYPICAL CONCRETE WALKS FOR REVIEW AND APPROVAL. ALL CONCRETE SIDEWALKS TO HAVE MEDIUM BROOM FINISH TRANSVERSE TO PEDESTRIAN TRAFFIC, UNLESS OTHERWISE INDICATED. MOCK-UP TO REMAIN ON SITE THROUGHOUT CONSTRUCTION.

13. ALL EXTERIOR GROUND OR BUILDING MOUNTED EQUIPMENT, INCLUDING BUT NOT LIMITED TO MECHANICAL EQUIPMENT, UTILITY METER BANKS, AND COOLERS, SHALL BE SCREENED FROM PUBLIC VIEW WITH LANDSCAPING OR AN ARCHITECTURAL TREATMENT COMPATIBLE WITH THE BUILDING ARCHITECTURE.

14. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND. RE: CIVIL.

SHEET NOTES *

1. 8' HT. CHAINLINK FENCE WITH MOWSTRIP. RE: 11/L4.0
2. 8' HT. CHAINLINK SWING GATE. SIM TO: 11/L4.0
3. 8' HT CHAINLINK MANUAL SLIDE GATE W/ KNOX PADLOCK. RE: 12/L4.0
4. SURFACE MOUNTED HANDRAIL. RE: 6/L4.0
5. PIPE BOLLARD. RE: 5/L4.0
6. NOT USED
7. NOT USED
8. STAIRS WITH HANDRAILS. RE: 13/L4.0
9. 8' HT. PVC COATED CHAINLINK FENCE WITH MOWSTRIP. SIM TO: 11/L4.0
10. 8' HT. PVC COATED CHAINLINK GATE. RE: 11B/L4.0

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METROPOLITAN COMMUNITY COLLEGE - LONGVIEW

500 SW LONGVIEW RF
LEE'S SUMMIT, MO, 64081

FINAL DEVELOPMENT PLAN
02.16.24

REVISIONS
CITY COMME NTS 03.29.24
ASI 001 04.26.24
FDP COMME NTS 06.27.24

13-23128-00

OVERALL LAYOUT PLAN

L1.0

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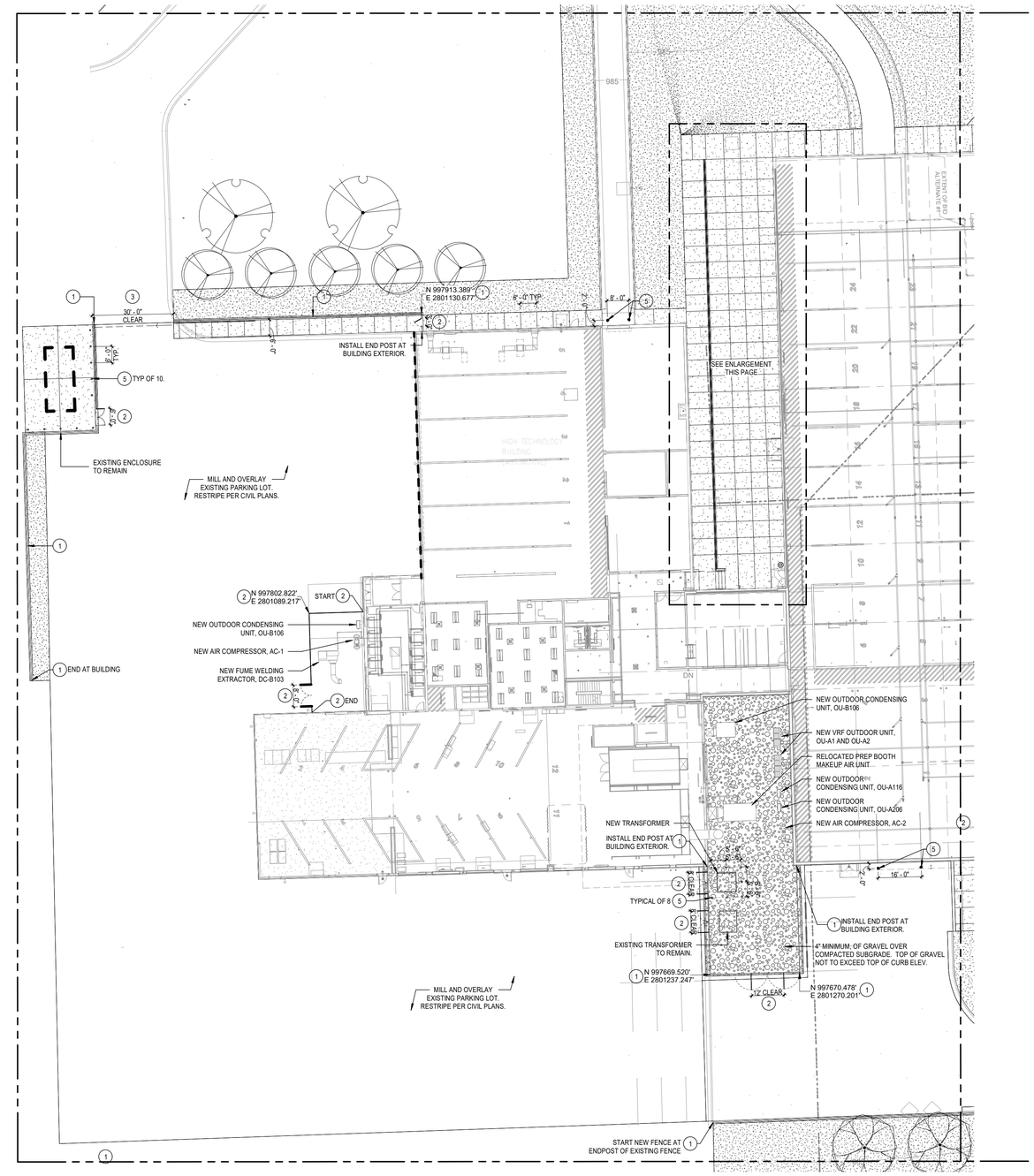
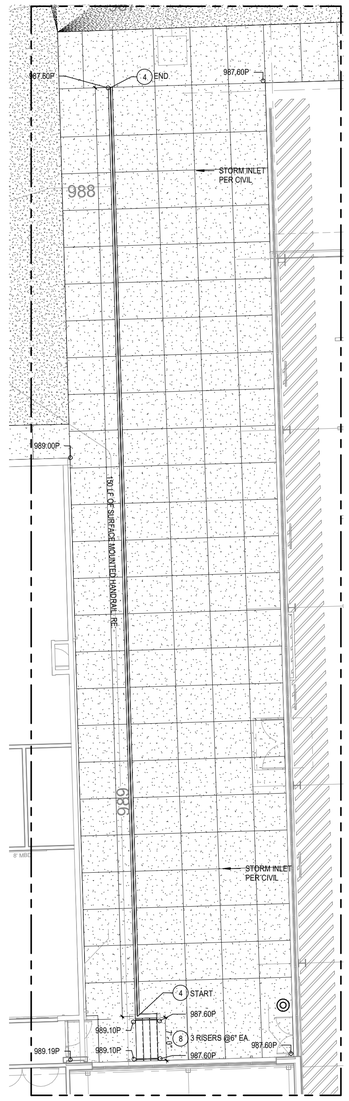


OVERALL SITE PLAN

SCALE: 1" = 20'-0"



OVERALL SITE PLAN

SCALE: 1" = 10'-0"

LAYOUT NOTES:

1. THE CONTRACTOR WILL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND STRUCTURES BEFORE COMMENCING WORK. THE CONTRACTOR WILL CONDUCT HIS WORK SO AS TO PREVENT INTERRUPTION OF SERVICE OR DAMAGE TO THEM. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES AND STRUCTURES.
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5. VERIFY LAYOUT COORDINATES PRIOR TO CONSTRUCTION.
6. CONTRACTOR TO SUPPLY AND INSTALL ALL REQUIRED SLEEVES UNDER PAVING AND WALKS.
7. PLACE DOWELLED EXPANSION JOINTS AT VERTICAL ELEMENTS (BUILDING, COLUMNS, WALLS, BACK OF CURBS, ETC.) AND STAIRS AND RAMPS AND APPROXIMATELY EVERY 50 LINEAR FEET. rE: CIVIL DRAWINGS.
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SHEET NOTES *

1. 8' HT. CHAINLINK FENCE WITH MOWSTRIP. RE: 11/L4.0
2. 8' HT. CHAINLINK SWING GATE. SIM TO: 11/L4.0
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6. NOT USED
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FINAL DEVELOPMENT PLAN
02.16.24

REVISIONS

ADD 01	02.16.24	
CITY COMME NTS	03.29.24	
ASI 001	04.26.24	
FDP COMME NTS	06.27.24	

13-23128-00

ENLARGED LAYOUT PLAN

L1.1

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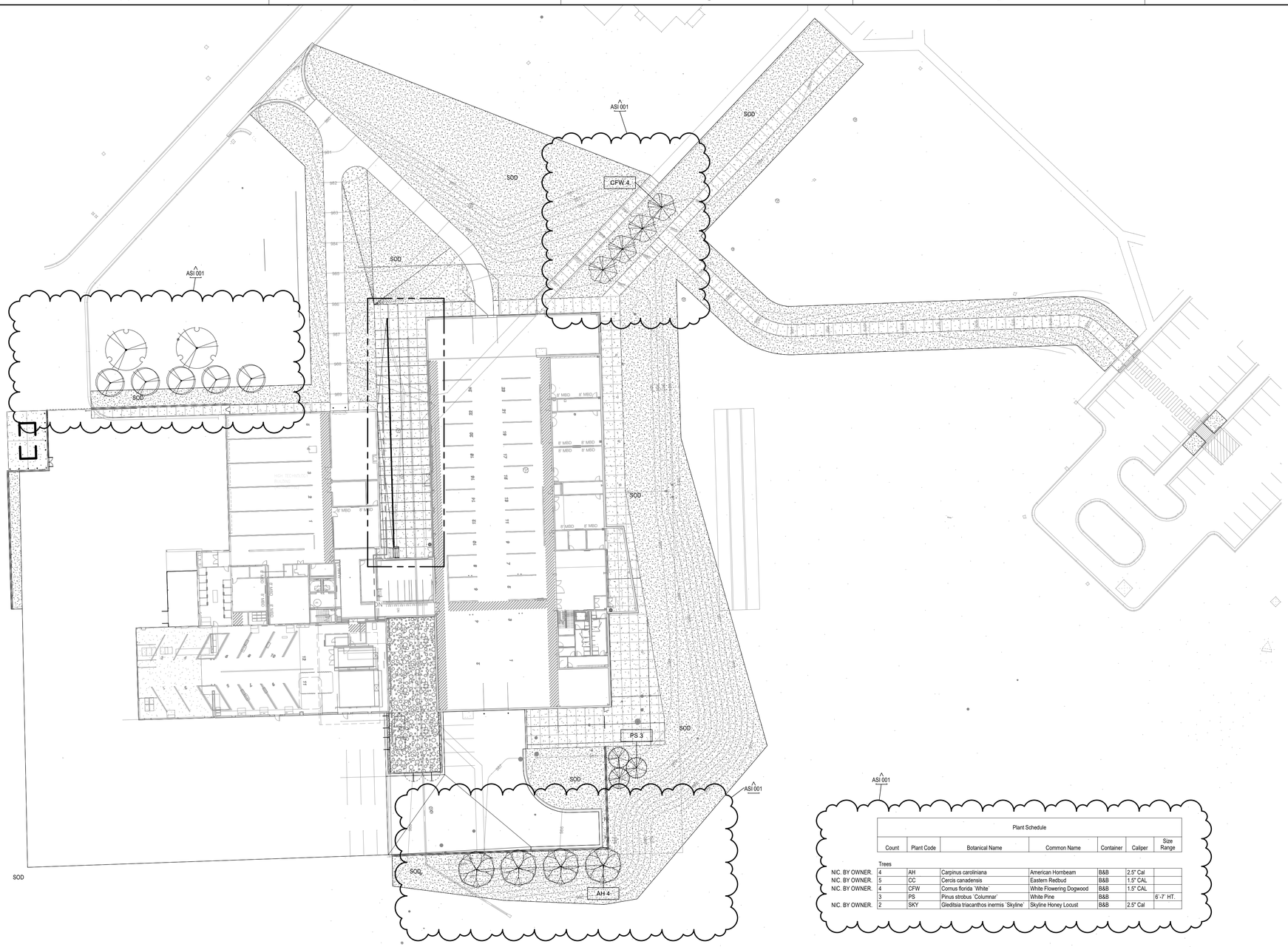

Plant Schedule						
Count	Plant Code	Botanical Name	Common Name	Container	Caliper	Size Range
Trees						
NIC. BY OWNER.	4	AH	Carpinus caroliniana	American Hornbeam	B&B	2.5" Cal
NIC. BY OWNER.	5	CC	Cercis canadensis	Eastern Redbud	B&B	1.5" CAL
NIC. BY OWNER.	4	CFW	Cornus florida `White`	White Flowering Dogwood	B&B	1.5" CAL
	3	PS	Pinus strobus `Columnar`	White Pine	B&B	6`-7` HT.
NIC. BY OWNER.	2	SKY	Gleditsia triacanthos inermis `Skyline`	Skyline Honey Locust	B&B	2.5" Cal

N

OVERALL SITE PLAN

SCALE: 1" = 30'-0"

LANDSCAPE NOTES:

1. THE CONTRACTOR WILL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND STRUCTURES BEFORE COMMENCING WORK. THE CONTRACTOR WILL CONDUCT HIS WORK SO AS TO PREVENT INTERRUPTION OF SERVICE OR DAMAGE TO THEM. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES AND STRUCTURES.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BEFORE STARTING ANY WORK.
3. EXISTING UNDERGROUND (U/G) UTILITIES AND DRAINAGE STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL CONTRACTORS TO NOTIFY THE UTILITY COMPANIES TO LOCATE UTILITIES BEFORE ACTUAL CONSTRUCTION.
4. THE CONTRACTOR WILL SHOW PROOF OF PROCUREMENT, SOURCES, QUANTITIES AND VARIETIES FOR ALL SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND ANNUALS.
5. SUBSTITUTIONS WILL BE ALLOWED ONCE THE CONTRACTOR HAS EXHAUSTED ALL SOURCES FOR THE SPECIFIED MATERIAL, AND HAS PROVEN THAT THE SPECIFIED MATERIAL IS NOT AVAILABLE. THE CONTRACTOR MUST PROVIDE NAME AND VARIETY OF SUBSTITUTION IN THE SUBSTITUTION REQUEST FORM TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO TAGGING OR PLANTING. SUBSTITUTIONS WILL BE NEAREST EQUIVALENT SIZE OF VARIETY OF PLANT HAVING SAME ESSENTIAL CHARACTERISTICS.
6. SIZE AND QUALITY OF PLANT MATERIAL WILL CONFORM TO AMERICAN STANDARDS FOR NURSERY STOCK, ANSI 260-1992, OR MOST RECENT EDITION.
7. ALL PLANT MATERIAL WILL BE NURSERY GROWN, SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECTS, DISEASE AND INJURIES, WITH HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES. SIZES WILL BE EQUAL TO OR EXCEEDING SIZES INDICATED ON THE PLANT LIST. THE CONTRACTOR WILL SUPPLY PLANTS IN QUANTITY AS SHOWN ON THE DRAWINGS.
8. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING POSITIVE SURFACE DRAINAGE IS PROVIDED IN ALL PLANTING AND TURF AREAS. ALL GRADE SURFACES WILL BE FINISHED TO UNIFORM GRADES AND SLOPED IN SUCH A MANNER TO BE FREE OF DEPRESSIONS THAT CAUSE AREAS OF STANDING WATER. THE CONTRACTOR WILL REPORT ANY CONFLICTS WITH THIS REQUIREMENT TO THE LANDSCAPE ARCHITECT/OWNER FOR RESOLUTION PRIOR TO FINAL OPERATIONS.
9. THE CONTRACTOR WILL REPORT SUB-SURFACE SOIL OR DRAINAGE ISSUES TO THE LANDSCAPE ARCHITECT.
10. CONTRACTOR SHALL STAKE PLANT LOCATIONS IN THE FIELD AND HAVE APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE PLANT PITS ARE EXCAVATED AND BEFORE PROCEEDING WITH INSTALLATION.
11. TREES, SHRUBS & GROUND COVERS SHALL BE LAID OUT IN A UNIFORM AND CONSISTENT PATTERN.
12. CONTRACTOR TO PLACE MULCH AROUND ALL TREES AND IN ALL PLANTING BEDS UNLESS OTHERWISE NOTED, TO A DEPTH OF 3" OR AS DESCRIBED IN THE SPECIFICATIONS. ALL PLANTING BEDS TO BE SEPARATED FROM LAWN AREAS WITH SPECIFIED EDGING OR CONCRETE CURB EDGE PER DRAWINGS.
13. ELEVATION OF TOP OF MULCH SHALL BE 1/2" MIN. BELOW ANY ADJACENT PAVEMENT OR 2" min. BELOW FINISHED FLOOR ELEVATION.
14. ALL SHRUB BEDS SHALL BE MULCHED WITH SPECIFIED ORGANIC OR DECORATIVE AGGREGATE MULCH AND SEPARATED FROM LAWN AREAS WITH SPECIFIED EDGING OR CONCRETE CURB EDGE PER DRAWINGS.
15. CONTRACTOR SHALL FINE GRADE AND SEED ALL AREAS DISTURBED DURING CONSTRUCTION AND ESTABLISH NEW LAWN AREA, NOT DESIGNATED FOR SOD, NATIVE MEADOW, OR PLANTING BEDS. CONTRACTOR TO SEED ALL AREAS WITHIN CONTRACT LIMITS NOT COVERED BY PAVING, BUILDINGS, OR PLANTING BEDS UNLESS OTHERWISE NOTED.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING ACTUAL AREAS OF SEED AND QUANTITIES REQUIRED FOR COVERAGE.
17. ALL PLANT MATERIALS DELIVERED TO THE SITE FOR APPROVAL AND INSTALLATION SHALL BE IDENTIFIED AND TAGGED, TO ENSURE THE PLANTS PROVIDED ARE AS SPECIFIED. PLANTS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
18. ALL TREES SHALL BE CALLIPERED AND UNDERSIZED TREES SHALL BE REJECTED.
19. PLANT QUANTITIES ARE PROVIDED FOR CONTRACTOR CONVENIENCE ONLY. PROVIDE AND INSTALL ALL PLANTS SHOWN ON THE PLANTING PLANS.
20. SPACING OF ALL PLANTINGS TO BE AS SHOWN ON PLANS.
21. ALL LANDSCAPE AREAS AND PLAYING FIELD AREAS TO HAVE A MINIMUM OF 6" TOPSOIL.

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LANDSCAPE ARCHITECT

MCC AUTOMOTIVE INSTITUTE

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FINAL DEVELOPMENT PLAN
June, 4th, 2024

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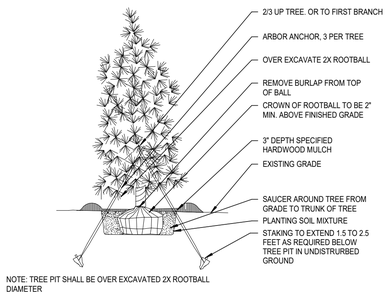
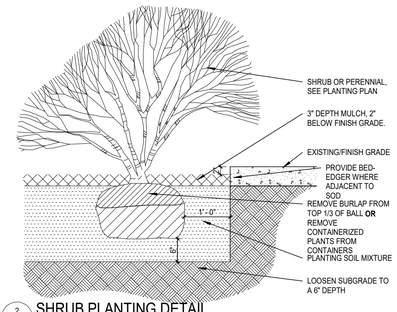
OVERALL LANDSCAPE PLAN

L2.0

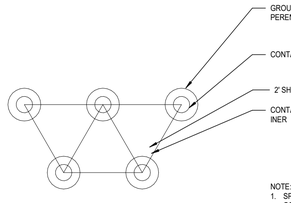


NOTE: TREE PIT SHALL BE OVER EXCAVATED 2X ROOTBALL DIAMETER

1 L4.0 EVERGREEN TREE PLANTING DETAIL
SCALE: 1/8" = 1'-0"



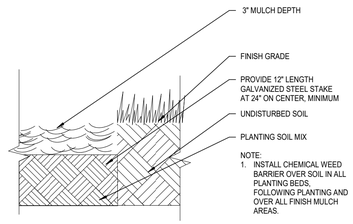
2 L4.0 SHRUB PLANTING DETAIL
NO SCALE



12"	SQUARE FEET X 1.00
18"	SQUARE FEET X .44
30"	SQUARE FEET X .16
36"	SQUARE FEET X .11
48"	SQUARE FEET X .06

NOTE:
1. SPACING FOR GROUND COVERS, SHRUBS, AND PERENNIALS.
2. TILL SOIL IN BED TO A 12" MINIMUM DEPTH. THOROUGHLY MIX IN SOIL AMENITIES AS NOTED.

3 L4.0 PERENNIAL LAYOUT PLAN
NO SCALE



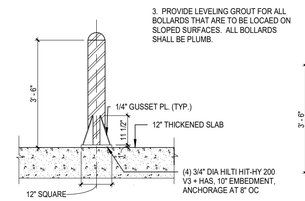
NOTE:
1. INSTALL CHEMICAL WEED BARRIER OVER SOIL IN ALL PLANTING BEDS, FOLLOWING PLANTING AND OVER ALL FINISH MULCH AREAS.

4 L4.0 PLANTING BED DETAIL
NO SCALE

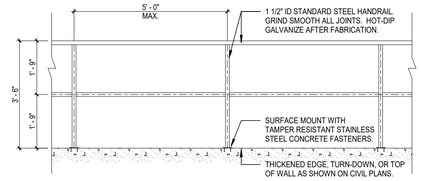
NOTE:
1. GUARD POST SHALL BE 5" DIA. SCH. 40 STEEL PIPE FILLED W/ CONCRETE, PAINTED WHITE.

2. ANCHOR TO CONCRETE WITH 3/4" DIA. TITEN HD ANCHORS WITH 6" MIN. EMBEDMENT.

3. PROVIDE LEVELING GROUT FOR ALL BOLLARDS THAT ARE TO BE LOCAED ON SLOPED SURFACES. ALL BOLLARDS SHALL BE PLUMB.



5 L4.0 SURFACE MOUNTED BOLLARD
SCALE: 1/2" = 1'-0"



6 L4.0 SURFACE MOUNTED HANDRAIL
SCALE: 1/2" = 1'-0"

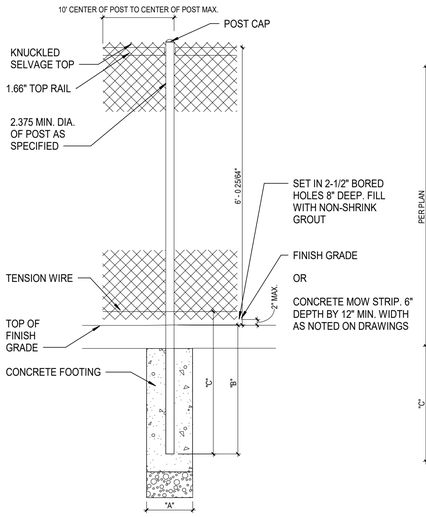
GATE POST

GATE LEAF WIDTH	GATE POST (OD)	FABRIC HEIGHT	"A" DIAM	"B" DEPTH	"C" POST EMBED.
3' TO 6'	2.875"	3' TO 5'	12"	42"	40"
		6' TO 9'	14"	42"	44"
		10' TO 12'	16"	46"	48"
7' TO 12'	4.000"	3' TO 5'	14"	42"	40"
		6' TO 9'	16"	42"	44"
		10' TO 12'	18"	46"	48"

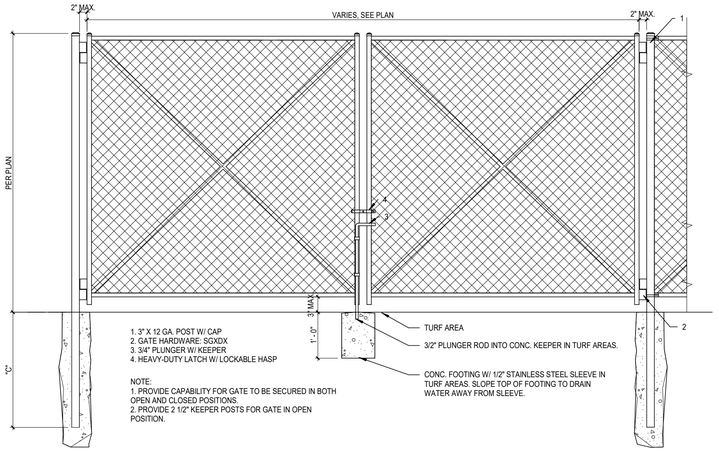
LINE AND TERMINAL POSTS

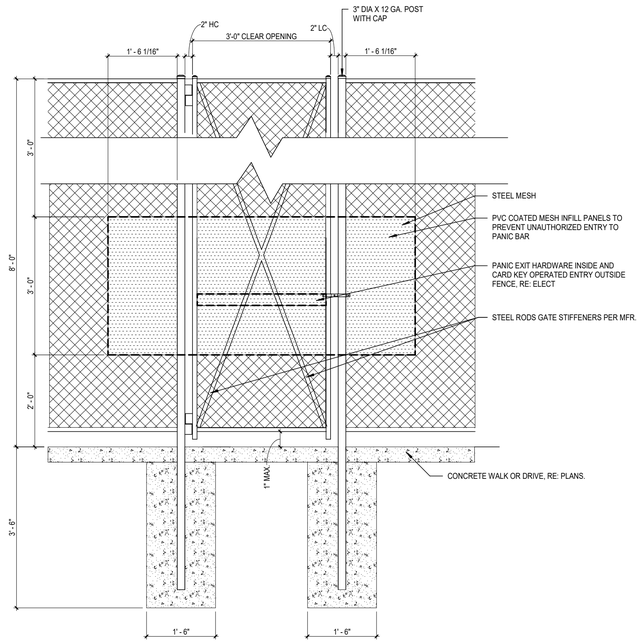
FABRIC HEIGHT	TYPE POST	"A" DIAM.	"B" POST DEPTH	"C" MIN. FOOTING DEPTH
3'-0" TO 4'-0"	LINE	12"	36"	38"
	TERMINAL	12"	36"	38"
5'-0"	LINE	12"	36"	38"
	TERMINAL	12"	36"	38"
6'-0" TO 9'-0"	LINE	12"	36"	38"
	TERMINAL	12"	36"	38"
10'-0" TO 12'-0"	LINE	18"	36"	38"
	TERMINAL	18"	48"	52"

NOTE: TERMINAL POSTS INCLUDE END, CORNER AND PULL POSTS

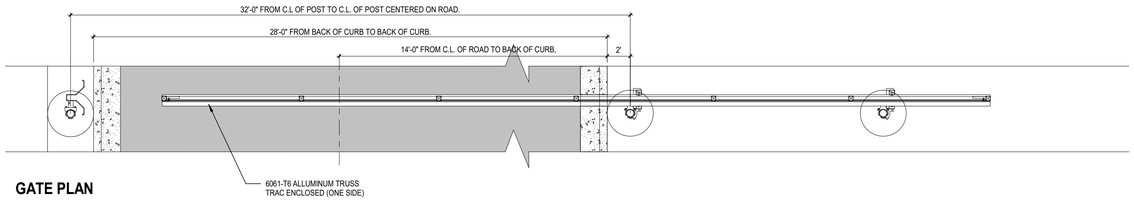


11 L4.0 CHAIN LINK FENCE AND GATE DETAIL
SCALE: 3/4" = 1'-0"

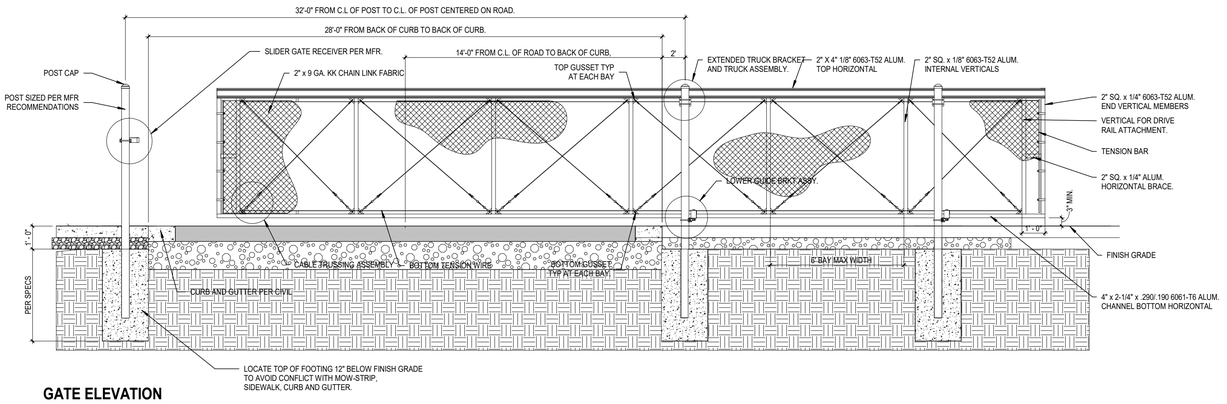




11B L4.0 CHAIN LINK PEDESTRIAN GATE DETAIL
SCALE: 3/4" = 1'-0"

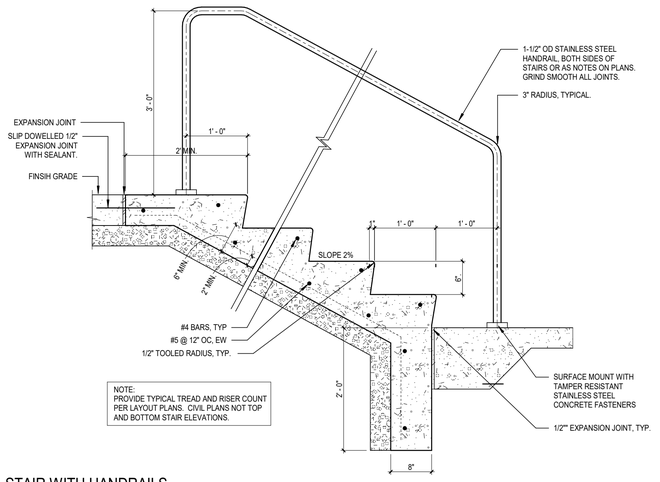


GATE PLAN



GATE ELEVATION

12 L4.0 CHAIN LINK AUOTMATIC SLIDE GATE
SCALE: 3/8" = 1'-0"



13 L4.0 STAIR WITH HANDRAILS
SCALE: 1" = 1'-0"

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2-23-2024
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LANDSCAPE DETAILS

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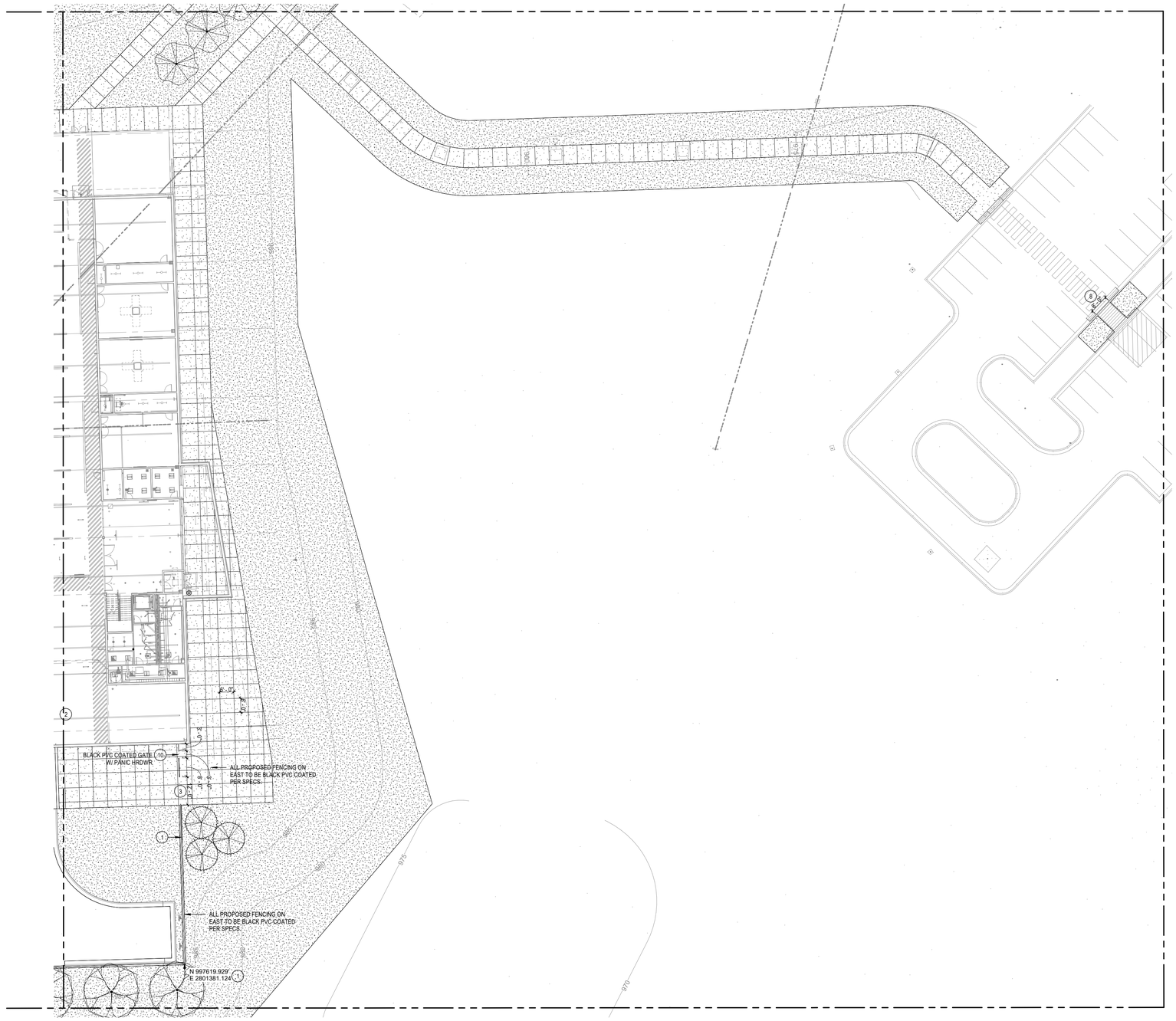

OVERALL SITE PLAN

SCALE: 1" = 20'-0"

0 10 20 40

SCALE: 1" = 20'

SHEET NOTES *

1. 8' HT. CHAINLINK FENCE WITH MOWSTRIP. RE: 11/L4.0
2. 8' HT. CHAINLINK SWING GATE. SIM TO: 11/L4.0
3. 8' HT CHAINLINK MANUAL SLIDE GATE W/ KNOX PADLOCK. RE: 12/L4.0
4. SURFACE MOUNTED HANDRAIL. RE: 6/L4.0
5. PIPE BOLLARD. RE: 5/L4.0
6. NOT USED
7. NOT USED
8. STAIRS WITH HANDRAILS. RE: 13/L4.0
9. 8' HT. PVC COATED CHAINLINK FENCE WITH MOWSTRIP. SIM TO: 11/L4.0
10. 8' HT. PVC COATED CHAINLINK GATE. RE: 11B/L4.0

LAYOUT NOTES:

1. THE CONTRACTOR WILL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND STRUCTURES BEFORE COMMENCING WORK. THE CONTRACTOR WILL CONDUCT HIS WORK SO AS TO PREVENT INTERRUPTION OF SERVICE OR DAMAGE TO THEM. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES AND STRUCTURES.

2. ALL CURBS RAMPS TO BE BUILT IN COMPLIANCE WITH FEDERAL ACCESSIBILITY STANDARDS.

3. PAVING DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

4. ALL WORK WILL BE IN ACCORDANCE WITH OSHA CODES AND STANDARDS. NOTHING INDICATED ON THESE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY REGULATIONS.

5. VERIFY LAYOUT COORDINATES PRIOR TO CONSTRUCTION.

6. CONTRACTOR TO SUPPLY AND INSTALL ALL REQUIRED SLEEVES UNDER PAVING AND WALKS.

7. PLACE DOWELLED EXPANSION JOINTS AT VERTICAL ELEMENTS (BUILDING, COLUMNS, WALLS, BACK OF CURBS, ETC.) AND STAIRS AND RAMPS AND APPROXIMATELY EVERY 50 LINEAR FEET. rE: CIVIL DRAWINGS.

8. WHERE NEW PAVEMENTS ARE CALLED FOR, PROVIDE AN EXPANSION JOINT AROUND ALL EXISTING UTILITIES, MANHOLES, POLES, LIGHTS, ETC.

9. SAWCUT JOINTS BETWEEN CRITICAL POINTS ARE TO BE EQUALLY SPACED, OR AS SHOWN ON DRAWINGS.

10. CONTRACTOR TO CONFIRM HORIZONTAL CONTROL POINTS IN THE FIELD. CONTRACTOR TO VERIFY HORIZONTAL CONTROL POINTS WITH HORIZONTAL COORDINATE POINTS.

11. ALL EXPOSED CONCRETE WALLS WILL HAVE A CONSISTENT RUBBED FINISH. CONTRACTOR TO PROVIDE MINIMUM 4 SQUARE FEET MOCK-UP FOR REVIEW AND APPROVAL.

12. CONTRACTOR TO PROVIDE MOCK-UP (4'X4') OF ALL DECORATIVE AND TYPICAL CONCRETE WALKS FOR REVIEW AND APPROVAL. ALL CONCRETE SIDEWALKS TO HAVE MEDIUM BROOM FINISH TRANSVERSE TO PEDESTRIAN TRAFFIC, UNLESS OTHERWISE INDICATED. MOCK-UP TO REMAIN ON SITE THROUGHOUT CONSTRUCTION.

13. ALL EXTERIOR GROUND OR BUILDING MOUNTED EQUIPMENT, INCLUDING BUT NOT LIMITED TO MECHANICAL EQUIPMENT, UTILITY METER BANKS, AND COOLERS, SHALL BE SCREENED FROM PUBLIC VIEW WITH LANDSCAPING OR AN ARCHITECTURAL TREATMENT COMPATIBLE WITH THE BUILDING ARCHITECTURE.

14. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND. RE: CIVIL.

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ENLARGED LAYOUT PLAN

L1.2

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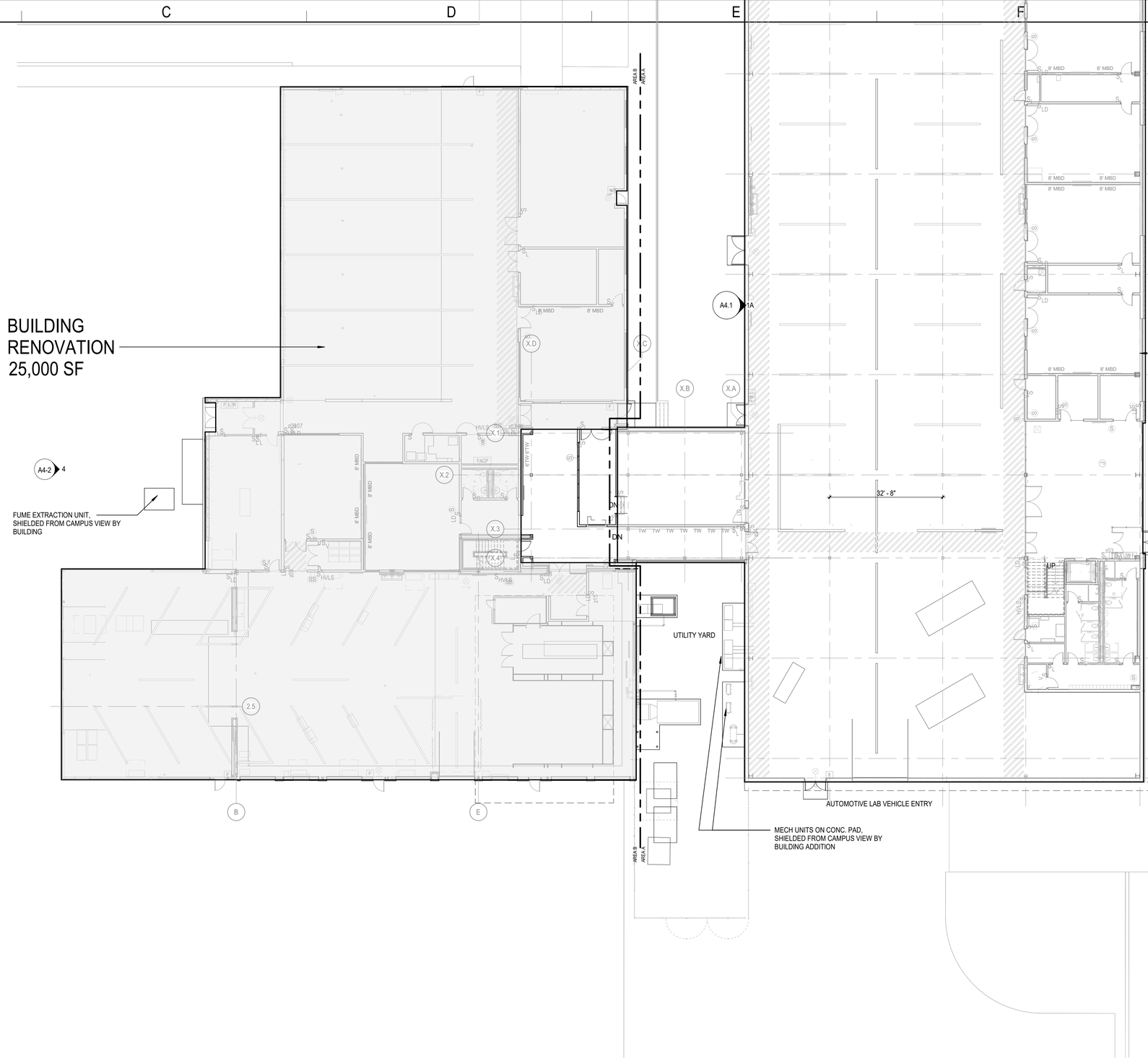

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SCALE: 1/16" = 1'-0"

OVERALL FLOOR PLAN, LEVEL 1

SCALE: 1/16" = 1'-0"

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LEVEL 01 -
OVERALL FLOOR
PLAN

A1-1

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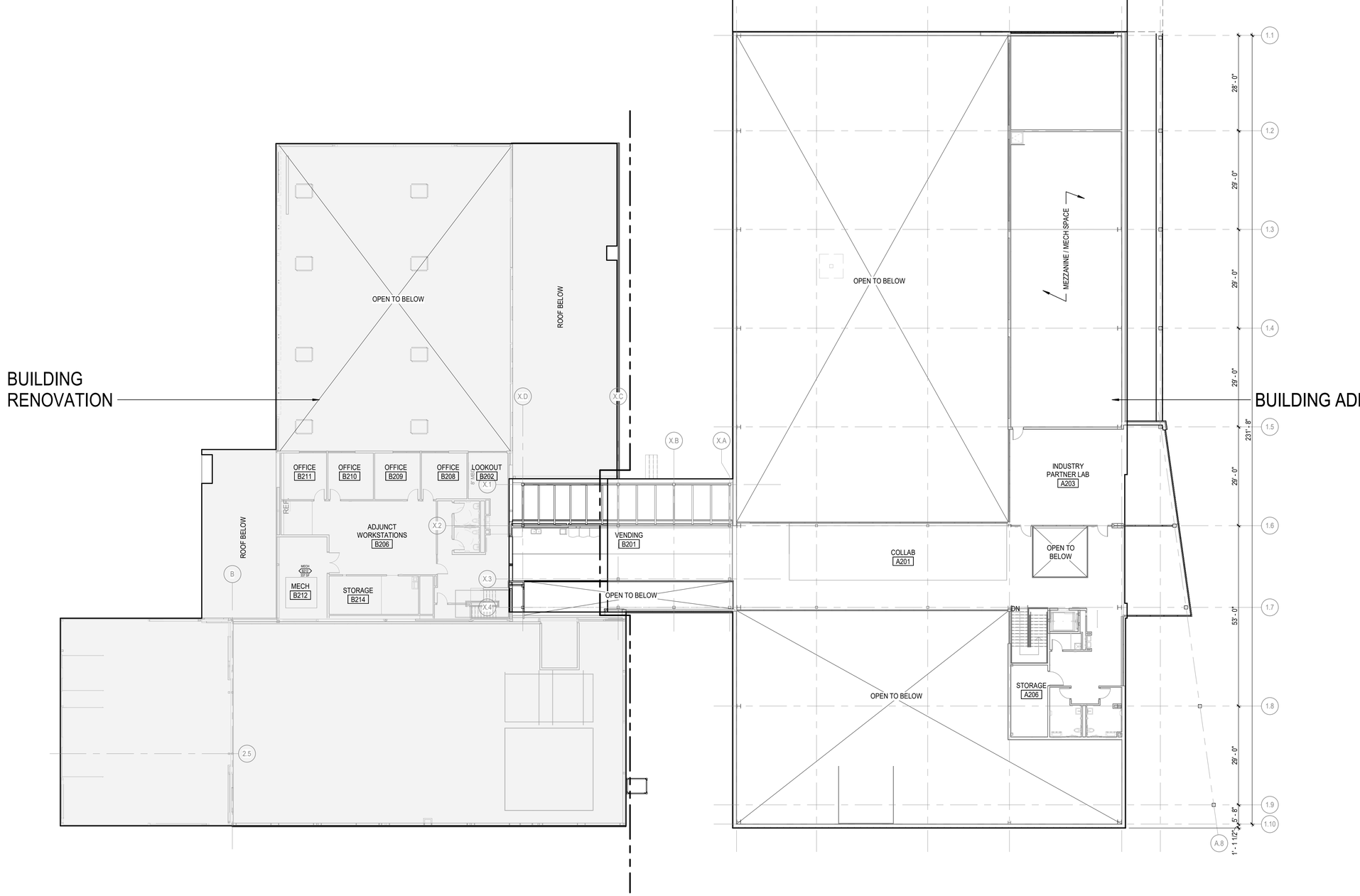

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SCALE: 1/16" = 1'-0"

LEVEL 02 - FLOOR PLAN

SCALE: 1/16" = 1'-0"

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LEVEL 02 -
OVERALL FLOOR
PLAN

A1-2

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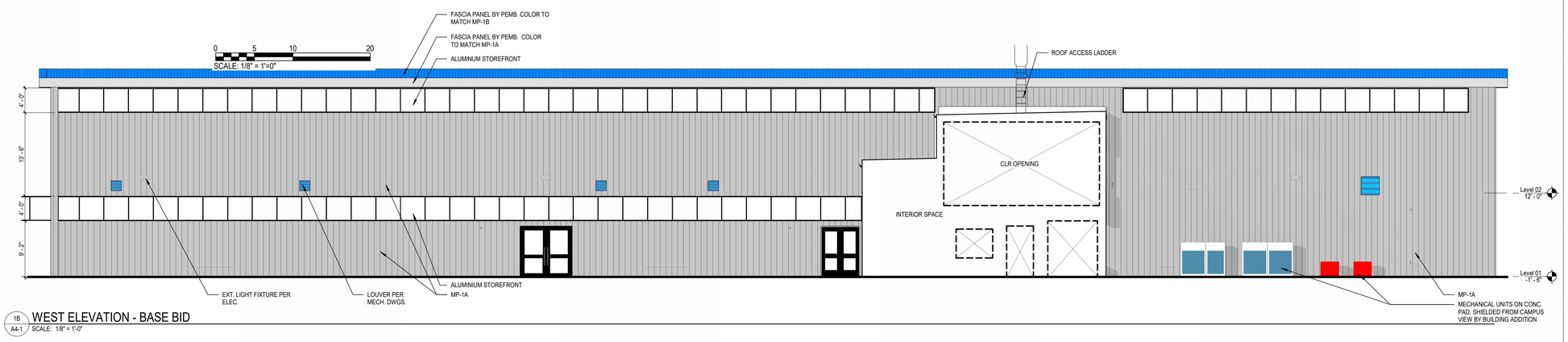
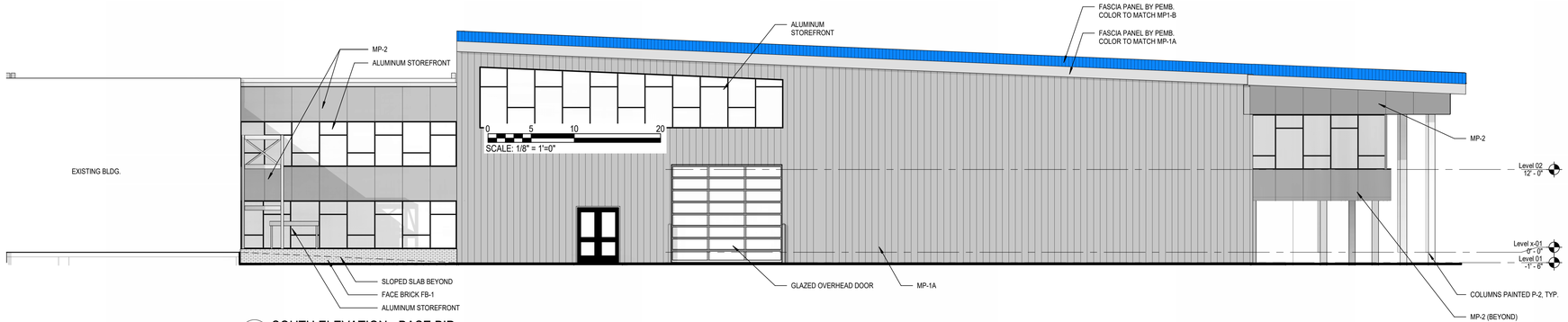


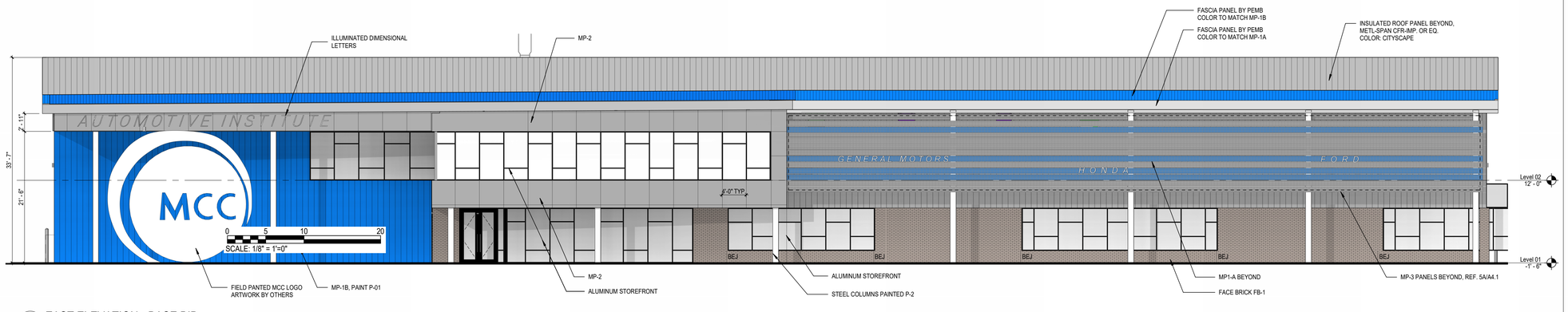
1B / A4-1 WEST ELEVATION - BASE BID
SCALE: 1/8" = 1'-0"



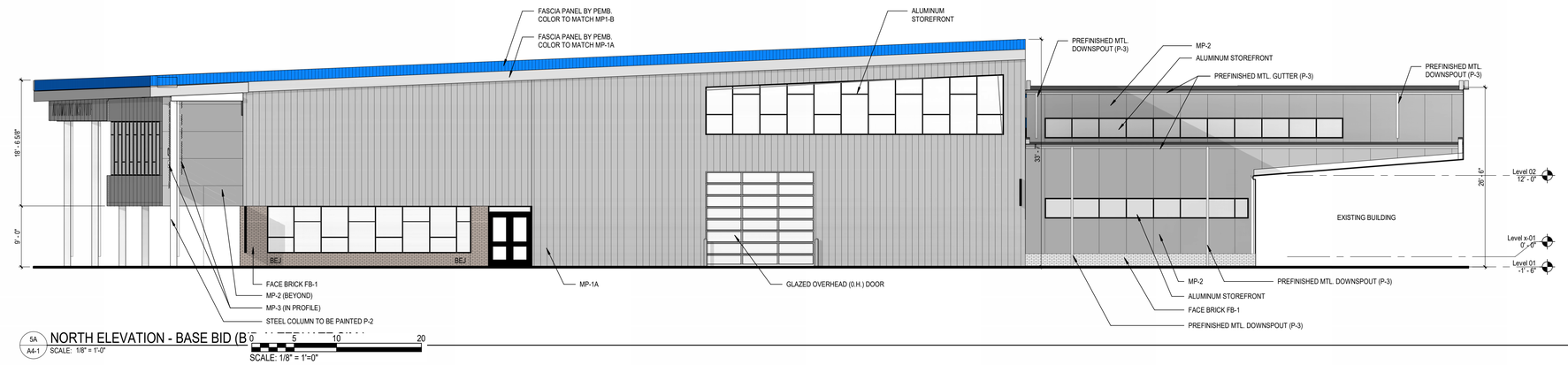
2B / A4-1 SOUTH ELEVATION - BASE BID
SCALE: 1/8" = 1'-0"

MATERIAL LEGEND

- FACE BRICK FB-1 - TO BE SELECTED ON SITE TO MATCH EXISTING
- MP-1B INSULATED METAL PANEL METL-SPAN CF TUFF-CAST., OR EQ FIELD PAINTED P-1 SHERWIN WILLIAMS BLUEBLOOD SW 6966
- MP-1A INSULATED METAL PANEL METL-SPAN CF MESA. COLOR: PEARL GRAY
- MP-2 COMPOSITE METAL WALL PANEL RAINSCREEN ASSEMBLY ALUCOBOND ROUTE & RETURN RAINSCREEN SYSTEM W/CONTINUOUS INSULATION, OR EQ. . COLOR: CADET GRAY (PER COLOR PALLETTE INFO.)
- MP-3 CORRUGATED ALUMINUM PANEL, PERFORATED METL-SPAN ECOSCREEN BR5-36, OR EQ. ALTERNATING COLORS PER DETAIL (P-1 SW 6966 BLUEBLOOD / P-2 SW 7073 NETWORK GRAY)
- P-3 PAINT EXISTING BUILDING - WALLS SW 7019 GAUNTLET GRAY
- P-4 PAINT EXISTING BUILDING - SOLID OVERHEAD DOORS SW 7015 REPOSE GRAY



4A / A4-1 EAST ELEVATION - BASE BID
SCALE: 1/8" = 1'-0"



5A / A4-1 NORTH ELEVATION - BASE BID (B
SCALE: 1/8" = 1'-0"

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EXTERIOR ELEVATIONS

A4-1

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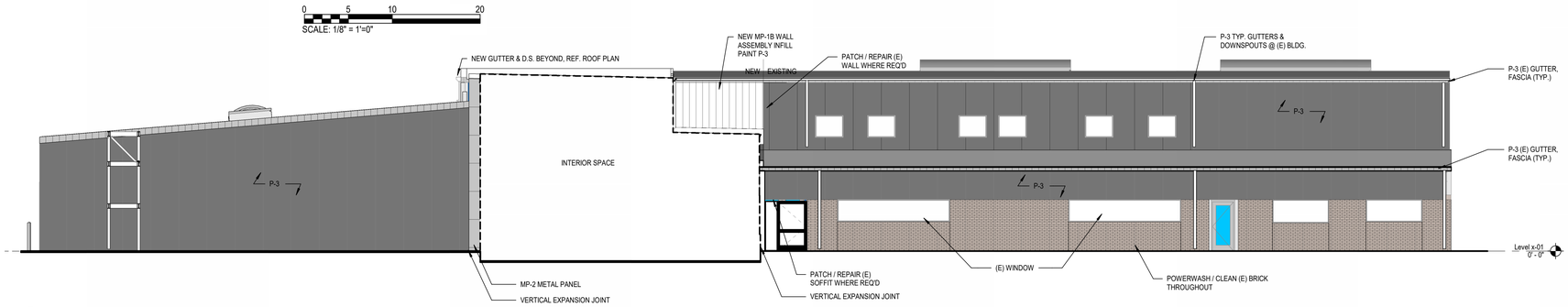
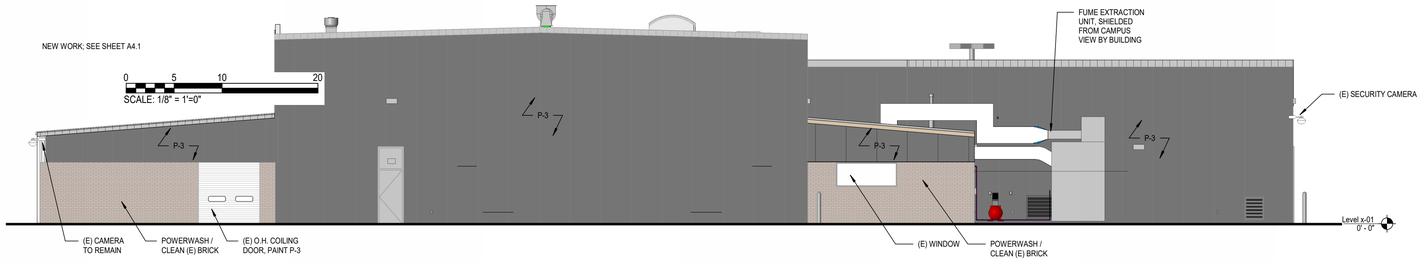
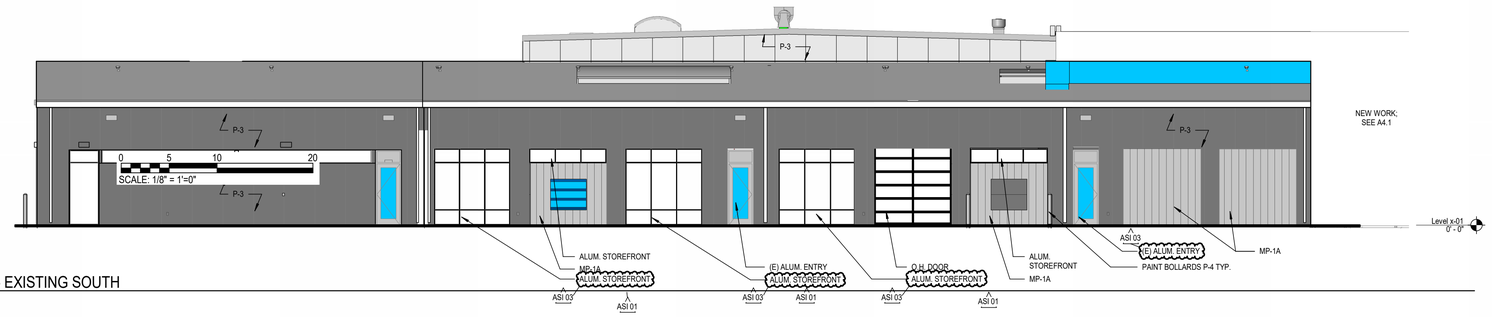


1 A4-2 EXTERIOR ELEVATION - EXISTING EAST
SCALE: 1/8" = 1'-0"



2 A4-2 EXTERIOR ELEVATION - EXISTING NORTH
SCALE: 1/8" = 1'-0"



3 A4-2 EXTERIOR ELEVATION - EXISTING SOUTH
SCALE: 1/8" = 1'-0"

MATERIAL LEGEND

FACE BRICK FB-1 - TO BE SELECTED ON SITE TO MATCH EXISTING

MP-1B INSULATED METAL PANEL
METL-SPAN CF TUFF-CAST., OR EQ.
FIELD PAINTED P-1 SHERWIN WILLIAMS BLUEBLOOD SW 6966

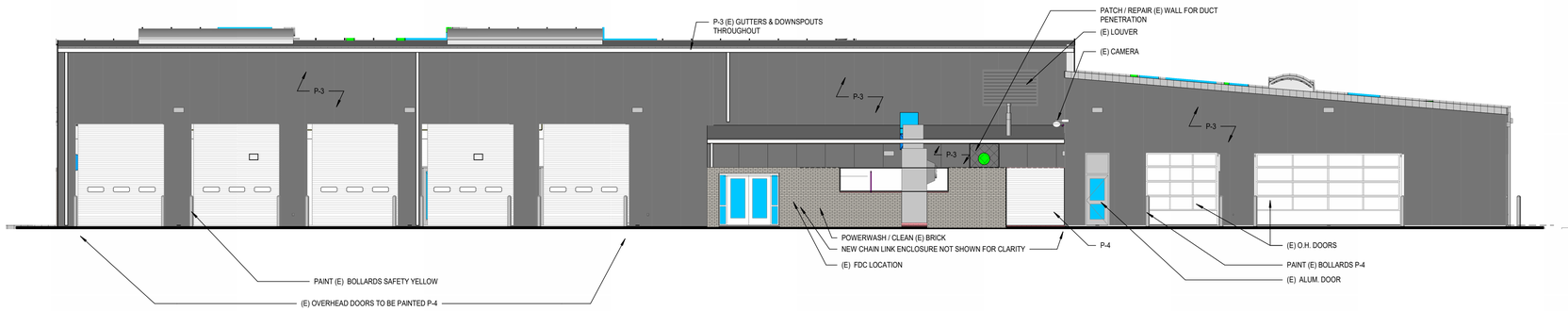
MP-1A INSULATED METAL PANEL
METL-SPAN CF MESA. COLOR: PEARL GRAY

MP-2 COMPOSITE METAL WALL PANEL RAINSCREEN ASSEMBLY
ALUCOBOND ROUTE & RETURN RAINSCREEN SYSTEM
W/CONTINUOUS INSULATION, OR EQ. . COLOR: CADET GRAY (PER COLOR PALLETTE INFO.)

MP-3 CORRUGATED ALUMINUM PANEL, PERFORATED
METL-SPAN ECOSCREEN BR5-36, OR EQ.
ALTERNATING COLORS PER DETAIL
(P-1 SW 6966 BLUEBLOOD / P-2 SW 7073 NETWORK GRAY)

P-3 PAINT EXISTING BUILDING - WALLS
SW 7019 GAUNTLET GRAY

P-4 PAINT EXISTING BUILDING - SOLID OVERHEAD DOORS
SW 7015 REPOSE GRAY



4 A4-2 EXTERIOR ELEVATION - EXISTING WEST
SCALE: 1/8" = 1'-0"

0 5 10 20
SCALE: 1/8" = 1'=0"

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MCC AUTOMOTIVE INSTITUTE

METROPOLITAN COMMUNITY COLLEGE - LONGVIEW
500 SW LONGVIEW RD.
LEE'S SUMMIT, MO. 64081

FINAL
DEVELOPMENT PLAN
June, 27th, 2024
REVISIONS
ASI 01 04.30.24
ASI 03 TBD

13-23128-00

EXTERIOR ELEVATIONS

A4-2

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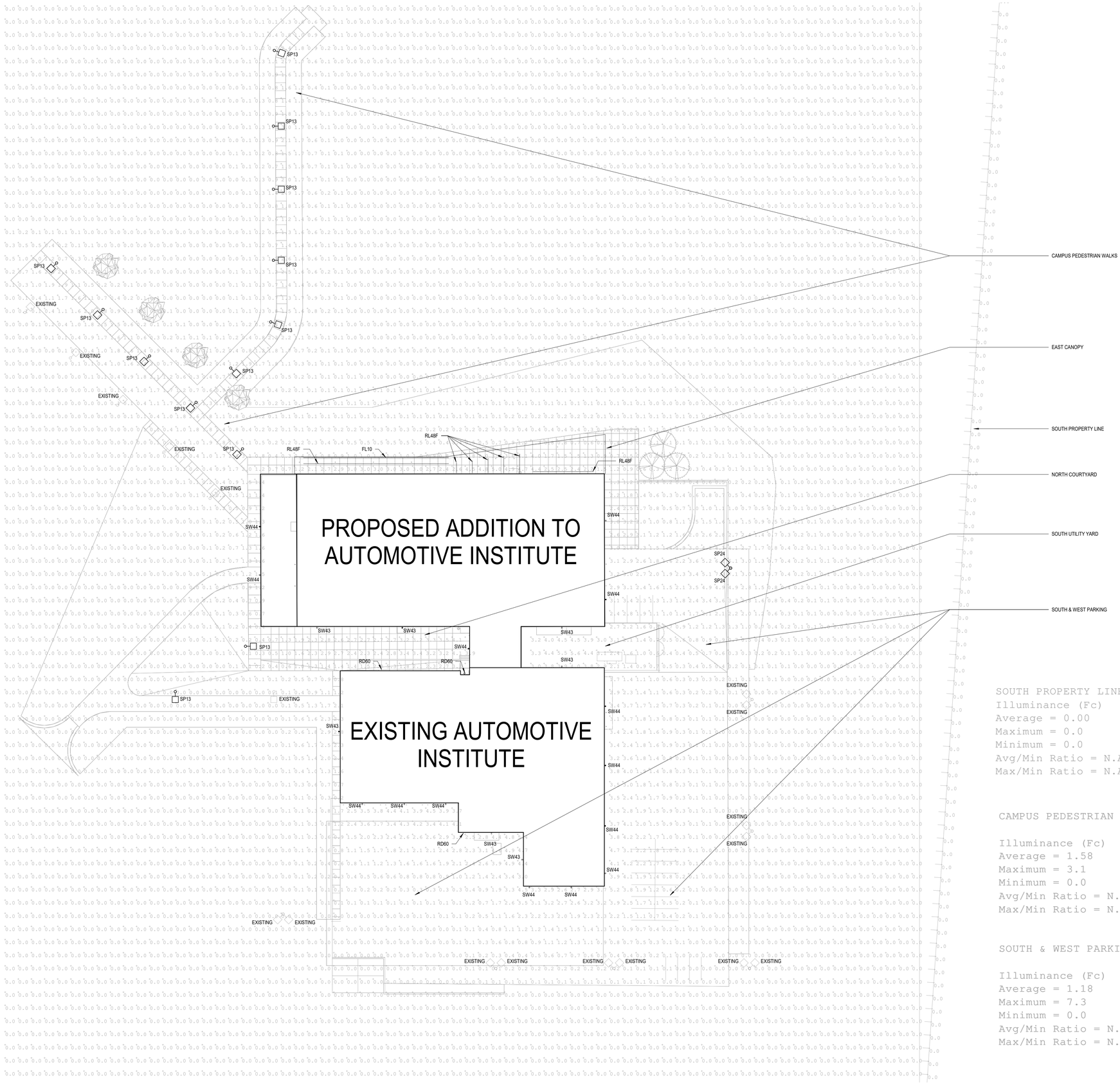

GENERAL NOTES

A. SITE HAS EXISTING POLE MOUNTED LIGHTING TO REMAIN. EXISTING SITE LIGHTING WAS NOT INCLUDED IN PHOTOMETRIC CALCULATIONS.

B. SITE IS PART OF A CAMPUS - THE SOUTH SIDE OF THE PROPERTY IS THE ONLY PART OF SIDE NEAR A PROPERTY LINE. THEREFORE, THE SOUTH PROPERTY LINE IS THE ONLY ONE FOR WHICH LIGHTING CALCULATIONS WERE PERFORMED.

SOUTH PROPERTY LINE
Illuminance (Fc)
Average = 0.00
Maximum = 0.0
Minimum = 0.0
Avg/Min Ratio = N.A.
Max/Min Ratio = N.A.

CAMPUS PEDESTRIAN WALKS

Illuminance (Fc)
Average = 1.58
Maximum = 3.1
Minimum = 0.0
Avg/Min Ratio = N.A.
Max/Min Ratio = N.A.

EAST CANOPY

Illuminance (Fc)
Average = 2.15
Maximum = 5.0
Minimum = 0.4
Avg/Min Ratio = 5.38
Max/Min Ratio = 12.50

SOUTH & WEST PARKING

Illuminance (Fc)
Average = 1.18
Maximum = 7.3
Minimum = 0.0
Avg/Min Ratio = N.A.
Max/Min Ratio = N.A.

NORTH COURTYARD

Illuminance (Fc)
Average = 2.52
Maximum = 6.3
Minimum = 0.4
Avg/Min Ratio = 6.30
Max/Min Ratio = 15.75

S UTILITY YARD

Illuminance (Fc)
Average = 2.83
Maximum = 5.6
Minimum = 0.6
Avg/Min Ratio = 4.72
Max/Min Ratio = 9.33

ELECTRICAL SITE PHOTOMETRIC PLAN
SCALE: 1" = 30'-0"

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Overland Park, KS 66213
CA No. 000939

6/27/24

DATE: 6/27/2024

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MCC AUTOMOTIVE INSTITUTE ADDITION AND REMODELS

METROPOLITAN COMMUNITY COLLEGE - LONGVIEW

500 SW LONGVIEW RD.
LEE'S SUMMIT, MO. 64081

PRELIMINARY DEVELOPMENT PLAN

03.22.24

13-23128-00

SITE PHOTOMETRIC PLAN

E1

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A | B | C | D | E | F

1 2 3 4 5

OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Patented NanoComfort™ Technology – Version C

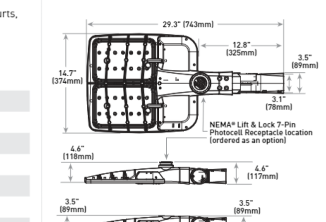
Rev. Date: V7 11/01/2023

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. Medium is suitable upgrade for HID applications up to 400 Watts. Large is suitable upgrade for HID applications up to 1000 Watts. Extra Large is suitable upgrade for HID applications up to multiple 1000 Watts.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, pickleball courts, high-mast and internal roadways

OSQM - AA Mount



Performance Summary

Utilizes Patented NanoComfort™ Technology

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

Assembled in the USA by Cree Lighting from US and imported parts

Initial Delivered Lumens: 4,000 - 85,000

Efficacy: Up to 171 LPW

CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty[†]: 10 years for luminaire; 10 years for Colorfast DeltaGuard® finish; 5 years for BML sensor; up to 5 years for Synapse® accessories; 1 year for luminaire accessories

† See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

Luminaire	Weight
OSQM	19.3 lbs. (8.8kg)

Note: For OSQL, OSQX and additional mounts, refer to drawings on page 27.

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-ML-C-AA-BK + **Luminaire:** OSQM-C-4L-30K7-2M-UL-NM-BK

Mount (Luminaire must be ordered separately)*

OSQ-

Medium/Large Mounts	Extra Large Mounts	Color Options:
OSQ-ML-C-AA Adjustable Arm	**OSQ-X-C-AA** Adjustable Arm	**SV** Silver, **BZ** Bronze
OSQ-ML-C-DA Direct Arm	**OSQ-X-C-DA** Direct Arm	**BK** Black, **WH** White
OSQ-ML-C-TM Trunnion Mount		

* Reference fixture mounting drill pattern, EPA, and pole configuration suitability data beginning on page 14.

Luminaire (Mount must be ordered separately)

Family	Size	Series	Lumen Package¹	CCT/CRI	Optic	Voltage	Mount	Color Options	Controls*	Options
OSQ	**M** Medium; **L** Large; **X** Extra Large	C	**Medium** 4L 4,000 Lumens; 6L 6,000 Lumens; 9L 9,000 Lumens; 11L 11,000 Lumens; 16L 16,000 Lumens; **Large** 22L 22,000 Lumens; 30L 30,000 Lumens; 40L 40,000 Lumens; **Extra Large** 50L 50,000 Lumens; 65L 65,000 Lumens; 75L 75,000 Lumens; 85L 85,000 Lumens	**30K7** 3000K, 70 CRI; **40K7** 4000K, 70 CRI; **50K9** 5000K, 90 CRI; **57K7** 5700K, 70 CRI	**Asymmetric** **2M** Type II Mid; **2B**** Type II Mid w/ Factory-Installed Backlight Shield - Available with all lumen packages except 85L; **3M** Type III Mid; **3B**** Type III Mid w/ Factory-Installed Backlight Shield - Available with all lumen packages except 85L; **4M** Type IV Mid; **4B**** Type IV Mid w/Factory-Installed Backlight Shield - Available with all lumen packages except 85L; **AF** Automotive Frontline Optic™; **AB**** Automotive Frontline Optic™ w/Factory-Installed Backlight Shield - Available with all lumen packages except 85L; **Symmetric** **5M** Type V Mid; **5N** Type V Narrow; **33** NEMA® 3x3; **44** NEMA® 4x4; **55** NEMA® 5x5; **66** NEMA® 6x6; **75** NEMA® 7x5	**UL** Universal 120-277V; **UH** Universal 347-480V - Not available with 4L, 40L, 75L or 85L lumen packages; **UE** Universal 277-480V - Available only with 40L, 75L and 85L lumen packages	**NM** No Mount - Must specify mount from table above - Mount ships separately	**BK** Black; **BZ** Bronze; **SV** Silver; **WH** White	**BML** Bluetooth® Technology Enabled Multi-Level Sensor - Utilizes a multifunction sensor - Refer to BML spec sheet for details - 20-40' sensor lens installed on luminaire; 8-20' sensor lens and aisle shroud included - Intended for downlight applications at 0° tilt - Not available with Q or X options or Synapse TL7-HVG accessory; **Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1** Field Adjustable Output - Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range adjustability - Refer to pages 15-26 for power and lumen values - Not available with BML or X options or Synapse TL7-HVG accessory; **X8/X7/X6/X5/X4/X3/X2/X1** Locked Lumen Output - Must select X8, X7, X6, X5, X4, X3, X2, or X1 - Not available with BML or Q options - X1 option not available the following lumen package/voltage offerings: 9L/UL, 16L/UL, 16L/UH, 30L/UL, 30L/UH, 65L/UL, 65L/UH - X2 option not available 9L/UL lumen package/voltage - Lumen output is permanently locked to the setting selected - Refer to pages 15-26 for power and lumen values	**20KV** 20kV/10kA Surge Suppression - Replaces standard 10kV/5kA surge protection; **F** Fuse - Compatible with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - When code dictates fusing, use time delay fuse; **N** Utility Label and NEMA® Lift & Lock 7-Pin Photocell Receptacle - External utility label per ANSI C136.15-2020 - 7-pin receptacle per ANSI C136.41 - Available only with OSQM & OSQL luminaires - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - Requires photocell or shorting cap by others - Refer to page 2 for compatible Synapse control offerings; **R** NEMA® Lift & Lock 7-Pin Photocell Receptacle - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - Requires photocell or shorting cap by others - Refer to page 2 for compatible Synapse control offerings; **RL** Rotate Left - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 27 for optic directionality - Not for use with symmetric optics; **RR** Rotate Right - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 27 for optic directionality - Not for use with symmetric optics

¹ Lumen Package codes identify approximate light output only. Actual lumen output levels vary by CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values.
* Luminaire comes standard with 0-10V dimming.
** Factory-installed backlight shields are integral to luminaire optic and may not be removed in the field. For field-install backlight control, please refer to the External Backlight Shields in the accessory table on page 2.

US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

CREE ⇕ LIGHTING

OSQ™ LED Area/Flood Luminaire featuring Patented NanoComfort™ Technology – Version C

Product Specifications

CREE LIGHTING NANOCOMFORT™ TECHNOLOGY

Cree Lighting's NanoComfort™ Technology ends the trade-offs in outdoor lighting by providing superior glare reduction and visual comfort in high-efficiency illumination delivered precisely where it is needed. The basic building block of NanoComfort™Technology is a compact 4x4 array of LEDs. Each of the 16 LEDs in a module is in contact with its own acrylic polymer lens to capture and precisely direct light. With NanoComfort™ Technology, the acrylic optics are cut and sculpted into lenses that relieve the glare and harshness while improving visual comfort – all while retaining superb efficacy and control.

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Acrylic optic w/clear tempered glass lens
- Some versions are provided with full circuit board, but not fully populated with LEDs or optics to scale back lumen package
- Convenient interlocking mounting method on direct arm. Mounting adaptor is rugged die cast aluminum and mounts to 3" (76mm) or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers. Refer to page 14 for fixture mounting drill patterns
- Adjustable arm mount adapters are rugged die cast aluminum
- OSQ-ML-C-AA mounts to a horizontal or vertical 2" (51mm) IP, 2.375" (60mm) O.D. tenon and can be adjusted 180° in 2.5" increments
- OSQ-X-C-AA mounts to a horizontal or vertical 2" (51mm) IP, 2.375-2.50" (60-64mm) O.D. steel tenon and can be adjusted 180° in 5.0" increments. **NOTE: Tenon length must be a minimum of 3.75" (95mm), and tenon must be steel**
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with (1) 3/4" bolt or (2) 1/2" or 3/8" bolts
- Luminaires include 15" (381mm) 18/5 cord exiting the luminaire
- Designed for uplight and downlight applications. Uplight orientation not suitable for use with N or R options
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available

Weight

Mount	Housing Size: Medium	Large	Extra Large
Direct Arm	19.7 lbs. (8.9kg)	28.8 lbs. (13.1kg)	45.8 lbs. (20.8kg)
Adjustable Arm	19.3 lbs. (8.8kg)	28.4 lbs. (12.9kg)	48.6 lbs. (22.0kg)
Trunnion	23.2 lbs. (10.5kg)	32.3 lbs. (14.7kg)	N/A

For BML sensor add 0.1 lbs. (45g), and for NEMA receptacle, add 0.3 lbs. (136g).

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V, 277-480V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV/5kA surge suppression protection standard; 20kV/10kA surge suppression protection optional
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Dims to 10%. Controls by others
- 0-10V dimming per ANSI C137.1-2019 (8-Volt or 9-Volt per power level/options selected)
- Refer to Dimming spec sheet for details
- **Maximum 10V Source Current:** 1.8mA
- **Operating Temperature Range:** -40°C - +40°C (-40°F - +104°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed (UL1598)
- Suitable for wet locations
- Meets NEMA C82.77 standards
- Drivers and LEDs are UL certified in accordance with UL8750
- Meets requirements of IP66 per IEC 60529 when ordered without N or R options
- Certified to ANSI C136.31-2018, 3G bridge and overpass vibration standards
- ANSI C136.2 10kV/5kA (standard) and 20kV/10kA (optional) surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Lens meets IK07 requirements per IEC 60068-2
- Assembled in the USA by Cree Lighting from US and imported parts
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and direct arm mount only. Please refer to https://darksky.org/what-we-do/darksky-approved/products-companies/#!/-/search/keyword=cree for most current information
- DLC and DLC Premium qualified SKUs available. Exceptions apply when 2B, 3B, 4B & AB optics are selected. Please refer to https://qpl.designlights.org/solid-state-lighting for most current information
- DLC Luna qualified when ordered with direct arm mount and 30K7 CCT. Please refer to https://qpl.designlights.org/solid-state-lighting for most current information
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-HVG) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Synapse Wireless Control Accessories

Twist-Lock Lighting Controller	Synapse Wireless Sensor
TL7-HVG - Suitable for 120-480V (UL, UE and UH) voltages - Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle - Not for use with BML or Q options - Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaire - Refer to TL7-HVG spec sheet for details; **SimplySNAP Central Base Station** CBSSW-450-002 - Includes On-Site Controller (SS450-002) and 5-button switch - Indoor and Outdoor rated - Refer to CBSSW-450-002 spec sheet for details	WSN-DPM - Motion and light sensor - Control multiple zones - Refer to WSN-DPM spec sheet for details; **SimplySNAP On-Site Controller** SS450-002 - Verizon® LTE-enabled - Designed for indoor applications - Refer to SS450-002 spec sheet for details; **Building Management System (BMS) Gateway** BMS-GW-002 - Required for BACnet integration - Refer to BMS-GW-002 spec sheet for details; **Outdoor Antennas (Optional, for increased range, 8dB gain)** KIT-ANT420SM - Kit includes antenna, 20' cable and bracket; KIT-ANT360 - Kit includes antenna, 30' cable and bracket; KIT-ANT600 - Kit includes antenna, 50' cable and bracket - Refer to Outdoor antenna spec sheet for details

Electrical Data*

Lumen Package	System Watts 120-480V	Utility Label Wattage	120V	208V	240V	277V	347V	480V
4L**	26	30	0.21	0.12	0.11	0.09	N/A	N/A
6L	37	40	0.31	0.18	0.15	0.13	0.11	0.08
9L	55	60	0.46	0.27	0.23	0.20	0.16	0.12
11L	68	70	0.57	0.33	0.28	0.25	0.20	0.14
16L	97	100	0.81	0.47	0.40	0.35	0.28	0.20
22L	131	130	1.09	0.63	0.55	0.47	0.38	0.27
30L	175	180	1.46	0.84	0.73	0.63	0.50	0.36
40L	236	240	1.96	1.13	0.98	0.85	0.68	0.49
50L	297	N/A	2.48	1.43	1.24	1.07	0.86	0.62
65L	384	N/A	3.20	1.85	1.60	1.39	1.11	0.80
75L	447	N/A	3.73	2.15	1.86	1.61	1.29	0.93
85L	520	N/A	4.34	2.50	2.17	1.88	1.50	0.93

(Total Current (A): 120V–480V)

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V, 277-480V or 347-480V+/-10%.
** Available with UL voltage only.

OSQ-C Series Ambient Adjusted Lumen Maintenance¹

Ambient	Initial LMF	25K hr Reported² LMF	50K hr Reported² LMF	75K hr Reported² LMF	100K hr Reported² LMF
5°C (41°F)	1.02	0.99	0.93	0.88	0.83
10°C (50°F)	1.02	0.98	0.93	0.87	0.82
15°C (59°F)	1.01	0.98	0.92	0.87	0.82
20°C (68°F)	1.01	0.97	0.92	0.86	0.81
25°C (77°F)	1.00	0.97	0.91	0.86	0.81

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.
² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

Accessories

Field-Installed

External Backlight Shield	Shorting Cap
OSQ-M-C-BLSF (Medium); OSQ-L-C-BLSF (Large); OSQ-X-C-BLSF (Extra Large) - Not for use with rotated optics; **Bird Spikes** OSQ-M-C-BRDSPK; OSQ-L-C-BRDSPK; OSQ-X-C-BRDSPK	XA-XSLSHRT

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Canada: creelighting-canada.com (800) 473-1234

CREE ⇕ LIGHTING

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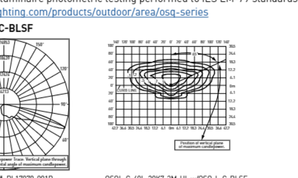
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

2M W/OSQ-*-C-BLSF



RESTL Test Report #: PL17978-001B
OSQL-C-40L-30K7-2M-UL-xx-xx-xx w/ OSQ-L-C-BLSF
Initial Delivered Lumens: 21,978

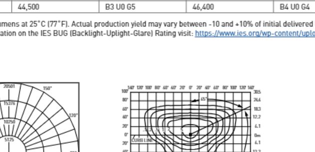
OSQL-C-40L-30K7-2M-UL w/OSQ-L-C-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 21,000
Initial FC at grade

Type II Mid Distribution w/OSQ-*-C-BLSF (field-installed)

Lumen Package	3000K (70 CRI) Initial Delivered Lumens*	3000K BUG Ratings** Per TM-15-20	4000K (70 CRI) Initial Delivered Lumens*	4000K BUG Ratings** Per TM-15-20	5000K (90 CRI) Initial Delivered Lumens*	5000K BUG Ratings** Per TM-15-20	5700K (70 CRI) Initial Delivered Lumens*	5700K BUG Ratings** Per TM-15-20
4L	2,100	B0 U0 G1	2,180	B0 U0 G1	1,610	B0 U0 G1	2,180	B0 U0 G1
6L	3,140	B1 U0 G1	3,270	B1 U0 G1	2,420	B1 U0 G1	3,270	B1 U0 G1
9L	4,720	B1 U0 G1	4,910	B1 U0 G1	3,630	B1 U0 G1	4,910	B1 U0 G1
11L	5,750	B1 U0 G1	6,000	B1 U0 G1	4,450	B1 U0 G1	6,000	B1 U0 G1
16L	8,400	B1 U0 G2	8,725	B1 U0 G2	6,475	B1 U0 G1	8,725	B1 U0 G2
22L	11,550	B2 U0 G2	12,000	B2 U0 G2	8,900	B1 U0 G2	12,000	B2 U0 G2
30L	15,700	B2 U0 G3	16,400	B2 U0 G3	12,100	B2 U0 G2	16,400	B2 U0 G3
40L	21,000	B3 U0 G3	21,800	B3 U0 G3	16,100	B2 U0 G3	21,800	B3 U0 G3
50L	26,200	B3 U0 G4	27,300	B3 U0 G4	20,200	B3 U0 G3	27,300	B3 U0 G4
65L	34,000	B3 U0 G4	35,500	B3 U0 G4	26,200	B3 U0 G4	35,500	B3 U0 G4
75L	39,300	B3 U0 G4	40,900	B3 U0 G4	30,300	B3 U0 G4	40,900	B3 U0 G4
85L	44,500	B3 U0 G5	46,400	B4 U0 G4	34,300	B3 U0 G5	46,400	B3 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

3M



RESTL Test Report #: PL17882-001A
Configured
OSQL-C-30L-30K7-3M-UL-xx-xx-xx
Initial Delivered Lumens: 27,400

OSQL-C-30L-30K7-3M-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 27,400
Initial FC at grade

Type III Mid Distribution

Lumen Package	3000K (70 CRI) Initial Delivered Lumens*	3000K BUG Ratings** Per TM-15-20	4000K (70 CRI) Initial Delivered Lumens*	4000K BUG Ratings** Per TM-15-20	5000K (90 CRI) Initial Delivered Lumens*	5000K BUG Ratings** Per TM-15-20	5700K (70 CRI) Initial Delivered Lumens*	5700K BUG Ratings** Per TM-15-20
4L	3,650	B1 U0 G1	3,800	B1 U0 G1	2,810	B1 U0 G1	3,800	B1 U0 G1
6L	5,475	B1 U0 G1	5,700	B1 U0 G1	4,220	B1 U0 G1	5,700	B1 U0 G1
9L	8,225	B2 U0 G2	8,550	B2 U0 G2	6,325	B1 U0 G1	8,550	B2 U0 G2
11L	10,025	B2 U0 G2	10,450	B2 U0 G2	7,750	B2 U0 G2	10,450	B2 U0 G2
16L	14,650	B3 U0 G3	15,200	B3 U0 G3	11,275	B2 U0 G2	15,200	B3 U0 G3
22L	20,100	B3 U0 G3	20,900	B3 U0 G3	15,500	B3 U0 G3	20,900	B3 U0 G3
30L	27,400	B3 U0 G4	28,500	B3 U0 G4	21,100	B3 U0 G3	28,500	B3 U0 G4
40L	36,500	B4 U0 G4	38,000	B4 U0 G4	28,100	B3 U0 G4	38,000	B4 U0 G4
50L	45,600	B4 U0 G5	47,500	B4 U0 G5	35,200	B3 U0 G4	47,500	B4 U0 G5
65L	59,300	B4 U0 G5	61,800	B4 U0 G5	45,700	B4 U0 G5	61,800	B4 U0 G5
75L	68,400	B4 U0 G5	71,300	B5 U0 G5	52,800	B4 U0 G5	71,300	B5 U0 G5
85L	77,600	B5 U0 G5	80,800	B5 U0 G5	59,800	B4 U0 G5	80,800	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

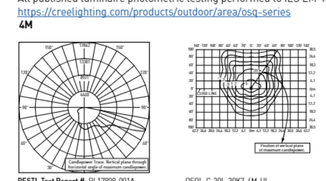
CREE ⇕ LIGHTING

OSQ™ LED Area/Flood Luminaire featuring Patented NanoComfort™ Technology – Version C

Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

4M



RESTL Test Report #: PL17908-001A
Configured
OSQL-C-30L-30K7-4M-UL-xx-xx-xx
Initial Delivered Lumens: 27,400

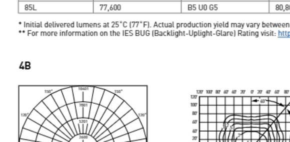
OSQL-C-30L-30K7-4M-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 27,400
Initial FC at grade

Type IV Mid Distribution

Lumen Package	3000K (70 CRI) Initial Delivered Lumens*	3000K BUG Ratings** Per TM-15-20	4000K (70 CRI) Initial Delivered Lumens*	4000K BUG Ratings** Per TM-15-20	5000K (90 CRI) Initial Delivered Lumens*	5000K BUG Ratings** Per TM-15-20	5700K (70 CRI) Initial Delivered Lumens*	5700K BUG Ratings** Per TM-15-20
4L	3,650	B1 U0 G1	3,800	B1 U0 G1	2,810	B1 U0 G1	3,800	B1 U0 G1
6L	5,475	B1 U0 G1	5,700	B1 U0 G1	4,220	B1 U0 G1	5,700	B1 U0 G1
9L	8,225	B2 U0 G2	8,550	B2 U0 G2	6,325	B1 U0 G1	8,550	B2 U0 G2
11L	10,025	B2 U0 G2	10,450	B2 U0 G2	7,750	B2 U0 G2	10,450	B2 U0 G2
16L	14,650	B3 U0 G2	15,200	B3 U0 G2	11,275	B2 U0 G2	15,200	B3 U0 G2
22L	20,100	B3 U0 G3	20,900	B3 U0 G3	15,500	B3 U0 G2	20,900	B3 U0 G3
30L	27,400	B3 U0 G3	28,500	B3 U0 G4	21,100	B3 U0 G3	28,500	B3 U0 G4
40L	36,500	B4 U0 G4	38,000	B4 U0 G4	28,100	B3 U0 G4	38,000	B4 U0 G4
50L	45,600	B4 U0 G5	47,500	B4 U0 G5	35,200	B4 U0 G4	47,500	B4 U0 G5
65L	59,300	B5 U0 G5	61,800	B5 U0 G5	45,700	B4 U0 G5	61,800	B5 U0 G5
75L	68,400	B5 U0 G5	71,300	B5 U0 G5	52,800	B4 U0 G5	71,300	B5 U0 G5
85L	77,600	B5 U0 G5	80,800	B5 U0 G5	59,800	B5 U0 G5	80,800	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

4B



RESTL Test Report #: PL17930-001A
Configured
OSQL-C-30L-30K7-4B-UL-xx-xx-xx
Initial Delivered Lumens: 17,200

OSQL-C-30L-30K7-4B-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 17,200
Initial FC at grade

Type IV Mid w/BLS Distribution (factory-installed)

Lumen Package	3000K (70 CRI) Initial Delivered Lumens*	3000K BUG Ratings** Per TM-15-20	4000K (70 CRI) Initial Delivered Lumens*	4000K BUG Ratings** Per TM-15-20	5000K (90 CRI) Initial Delivered Lumens*	5000K BUG Ratings** Per TM-15-20	5700K (70 CRI) Initial Delivered Lumens*	5700K BUG Ratings** Per TM-15-20
4L	2,300	B1 U0 G0	2,400	B1 U0 G0	1,770	B0 U0 G0	2,400	B1 U0 G0
6L	3,440	B1 U0 G1	3,590	B1 U0 G1	2,660	B1 U0 G0	3,590	B1 U0 G1
9L	5,175	B1 U0 G1	5,400	B1 U0 G1	3,980	B1 U0 G1	5,400	B1 U0 G1
11L	6,325	B1 U0 G1	6,600	B1 U0 G1	4,880	B1 U0 G1	6,600	B1 U0 G1
16L	9,225	B2 U0 G2	9,575	B2 U0 G2	7,100	B1 U0 G1	9,575	B2 U0 G2
22L	12,625	B2 U0 G2	13,175	B2 U0 G2	9,750	B2 U0 G2	13,175	B2 U0 G2
30L	17,200	B2 U0 G2	18,000	B2 U0 G2	13,300	B2 U0 G2	18,000	B2 U0 G2
40L	23,000	B3 U0 G3	24,000	B3 U0 G3	17,700	B2 U0 G2	24,000	B3 U0 G3
50L	28,700	B3 U0 G3	29,900	B3 U0 G3	22,200	B3 U0 G3	29,900	B3 U0 G3
65L	37,400	B3 U0 G4	38,900	B3 U0 G4	28,800	B3 U0 G3	38,900	B3 U0 G4
75L	43,100	B3 U0 G4	44,900	B4 U0 G4	33,200	B3 U0 G4	44,900	B4 U0 G4

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

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Canada: creelighting-canada.com (800) 473-1234

CREE ⇕ LIGHTING

2A / E2 — POLE FIXTURE(S) CUTSHEET - TYPES SP13 & SP24
NO SCALE

Job:
Type:
Notes:

Poles

Page 1 of 4

5" Straight Round Aluminum - Tenon Base
For Gardco Post Top Mounted Luminaires

The PhilipsGardco PRA5 straight aluminum pole consists of a one-piece 5" round extruded aluminum lighting standard mounted to a structural quality carbon galvanized steel base tenon. This construction offers the corrosion resistance and flexibility of aluminum with the strength and integrity of steel. The poles are finished with either Architectural Class I anodizing or electrostatically applied TGIC polyester powdercoat. All poles include anchor bolts, full base cover, hand hole, ground lug and top cap.

PREFIX – BASE – HEIGHT – FINISH – OPTIONS

Enter the order code into the appropriate box above. Note: Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

PREFIX
PRA5

BASE
STB Steel Tenon Base

Hinged Bases are available for this pole size. Please refer to Hinged Base Pole sheet 79415-8 for specifications and dimensions.

HEIGHT
10'
12'
15'
18'
20'
25'

FINISH
- BRP Bronze Paint
- BLP Black Paint
- WP White Paint
- NP Natural Aluminum Paint
- BRA Bronze Anodized
- BLA Black Anodized
- NA Natural Anodized
- OC Optional Color Paint — Specify Optional Color or RAL ex: OC-LGP or OC-RAL7024.
- SC Special Color Paint — Specify. Must supply color chip.

OPTIONS
- DR Duplex Receptacle
- GFCI Ground Fault Receptacle
- VDA Vibration Dampener

Note: DR and GFCI options replace the hand hole, and are located 20" above base.

Nipples and Couplings

Indicate size (1/2", 3/4", 1", 1 1/4", 1 1/2".) Indicate height above base and orientation to hand hole. See Pole Orientataion Information on Page 4.

- NL Nipple - External thread
- CL Coupling - Internal thread

1611 Clovis Barker Road, San Marcos,TX 78666
(800) 227-0758 (512) 753-1000 FAX: (512) 753-7855 sitelighting.com
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79415-11/1210

PHILIPS GARDCO

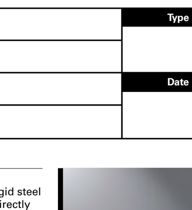
2F / E2 — POLE CUTSHEET
NO SCALE

McGraw-Edison

Catalog #		Type
Project		
Comments		Date
Prepared by		

DESCRIPTION

The Galleon™ Wall LED luminaire's appearance is complementary with the Galleon area and site luminaire bringing a modern architectural style to lighting applications. Flexible mounting options accommodate wall surfaces in both an upward and downward configuration. The Galleon family of LED products deliver exceptional performance with patented, high-efficiency AccuLED Optics™, providing uniform and energy conscious lighting for parking lots, building and security lighting applications.



GWC GALLEON WALL

1-2 Light Squares
Solid State LED

WALL MOUNT LUMINAIRE

WaveLinx

SPECIFICATION FEATURES

Construction
Driver enclosure thermally isolated from optics for optimal thermal performance. Heavy wall aluminum housing die-cast with integral external heat sinks to provide superior structural rigidity and an IP66 rated housing. Overall construction passes a 1.5G vibration test to ensure mechanical integrity. UPLIGHTING: Specify with the UPL option for inverted mount uplight housing with additional protections to maintain IP rating.

Optics
Choice of thirteen patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 6000K CCT. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 1200mA, 800mA, and 600mA drive currents.

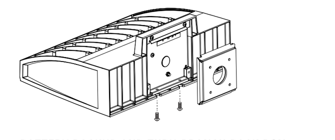
Electrical
LED drivers are mounted for ease of maintenance. 120-277V 50/60Hz, 347V or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Drivers are provided standard with 0-10V dimming. An optional Cooper Lighting Solutions proprietary surge protection module is available and designed to withstand 10kV of transient line surge. The Galleon Wall LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting
Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Galleon Wall "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws which are concealed but accessible from bottom of fixture.

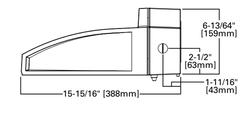
Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty
Five-year warranty.

DIMENSIONS



HOOK-N-LOCK MOUNTING



BATTERY BACKUP AND THRU-BRANCH BACK BOX

CERTIFICATION DATA
UL/cUL Listed
LM79 / LM80 Compliant
IP66 Housing
ISO 9001
DesignLights Consortium® Qualified*

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz
347V, 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

SHIPPING DATA
Approximate Net Weight:
27 lbs. (12.2 kgs.)

COOPER Lighting Solutions

*www.designlights.org

TD514017EN
September 15, 2020 6:23 PM

POWER AND LUMENS

Number of Light Squares	1				2			
Drive Current	600mA	800mA	1.0A	1.2A	600mA	800mA	1.0A	1.2A
Nominal Power (Watts)	34	44	59	67	66	86	113	129
Input Current @ 120V (A)	0.30	0.39	0.51	0.58	0.58	0.77	1.02	1.16
Input Current @ 208V (A)	0.17	0.22	0.29	0.33	0.34	0.44	0.56	0.63
Input Current @ 240V (A)	0.15	0.19	0.26	0.29	0.30	0.38	0.48	0.55
Input Current @ 277V (A)	0.14	0.17	0.23	0.25	0.28	0.36	0.42	0.48
Input Current @ 347V (mA)	0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
Input Current @ 480V (mA)	0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30

Optics		600mA	800mA	1.0A	1.2A	600mA	800mA	1.0A	1.2A
T2	4000K/5000K Lumens	4,204	5,156	6,381	7,000	8,215	10,075	12,470	13,680
	3000K Lumens	3,975	4,874	6,033	6,618	7,767	9,525	11,790	12,934
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
T3	4000K/5000K Lumens	4,285	5,256	6,505	7,135	8,375	10,269	12,710	13,943
	3000K Lumens	4,051	4,969	6,150	6,746	7,918	9,710	12,017	13,182
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
T4FT	4000K/5000K Lumens	4,311	5,286	6,542	7,177	8,422	10,329	12,784	14,024
	3000K Lumens	4,075	4,998	6,185	6,786	7,963	9,766	12,086	13,259
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3
T4W	4000K/5000K Lumens	4,254	5,217	6,458	7,084	8,313	10,195	12,619	13,843
	3000K Lumens	4,023	4,933	6,105	6,698	7,860	9,639	11,931	13,088
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
SL2	4000K/5000K Lumens	4,196	5,147	6,370	6,988	8,202	10,058	12,449	13,656
	3000K Lumens	3,967	4,866	6,022	6,607	7,755	9,509	11,771	12,911
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
SL3	4000K/5000K Lumens	4,284	5,255	6,504	7,134	8,374	10,268	12,709	13,941
	3000K Lumens	3,849	4,720	5,842	6,408	7,520	9,224	11,415	12,523
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3
SL4	4000K/5000K Lumens	4,071	4,992	6,179	6,778	7,954	9,756	12,074	13,246
	3000K Lumens	3,849	4,720	5,842	6,408	7,520	9,224	11,415	12,523
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3
5NQ	4000K/5000K Lumens	4,420	5,420	6,709	7,358	8,637	10,591	13,108	14,380
	3000K Lumens	4,179	5,124	6,343	6,957	8,166	10,013	12,393	13,595
	BUG Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
5MQ	4000K/5000K Lumens	4,501	5,520	6,831	7,494	8,795	10,786	13,350	14,644
	3000K Lumens	4,256	5,219	6,458	7,085	8,316	10,198	12,622	13,845
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2
5WQ	4000K/5000K Lumens	4,513	5,534	6,849	7,514	8,819	10,815	13,385	14,683
	3000K Lumens	4,268	5,232	6,475	7,104	8,338	10,224	12,656	13,882
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
SLL/SLR	4000K/5000K Lumens	3,765	4,619	5,716	6,270	7,358	9,023	11,167	12,251
	3000K Lumens	3,560	4,367	5,404	5,927	6,957	8,531	10,559	11,583
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3
RW	4000K/5000K Lumens	4,379	5,370	6,647	7,293	8,558	10,494	12,989	14,250
	3000K Lumens	4,141	5,077	6,285	6,895	8,092	9,922	12,281	13,473
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2

* Nominal lumen data for 70 CRI. BUG rating for 4000K/5000K. Refer to IES files for 3000K BUG ratings.

COOPER Lighting Solutions

TD514017EN
September 15, 2020 6:23 PM

ORDERING INFORMATION

Sample Number: GWC-AF-02-LED-E1-T3-GM

Product Family ¹	Light Engine	Number of Light Squares ²	Lamp Type	Voltage	Distribution	Color	Mounting Options
GWC=Galleon Wall	**AF**=1A Drive Current	**01**=1; **02**=2 ³	**LED**=Solid State Light Emitting Diodes	**E1**=120-277V; **347**=347V ⁴; **480**=480V ⁴, ⁵	**T2**=Type II; **T3**=Type III; **T4FT**=Type IV Forward Throw; **T4W**=Type IV Wide; **SL2**=Type II w/Spill Control; **SL3**=Type III w/Spill Control; **SL4**=Type IV w/Spill Control; **SLL**=90° Spill Light Eliminator Left; **SLR**=90° Spill Light Eliminator Right; **RW**=Rectangular Wide Type I; **5NQ**=Type V Square Narrow; **5MQ**=Type V Square Medium; **5WQ**=Type V Square Wide	**AP**=Grey; **BZ**=Bronze; **BK**=Black; **DP**=Dark Platinum; **GM**=Graphite Metallic; **WH**=White; **CC**=Custom Color ⁶	**[BLANK]**=Surface Mount

Options (Add as Suffix)

7027=70 CRI / 2700K ⁷
7030=70 CRI / 3000K ⁷
8030=80 CRI / 3000K ⁷
7050=70 CRI / 5000K ⁷
7060=70 CRI / 6000K ⁷
AMB=Amber 590nm ⁸, ²⁸
600=Drive Current Factory Set to 600mA
800=Drive Current Factory Set to 800mA
1200=Drive Current Factory Set to 1200mA ⁸
F=Single Fused (120, 277 or 347V. Must Specify Voltage)
FF=Double Fused (208, 240 or 480V. Must Specify Voltage)
10K=10kV Surge Module
DIM=0-10V Dimming Leads ⁹, ¹⁰
DALI=DALI Driver ¹¹
HA=50°C High Ambient ¹²
UPL=Uplight Housing ¹³
CBP=Battery Pack with Back Box, Cold Weather Rated ³, ⁸, ¹⁴, ²⁷
CBP-CEC=Battery Pack with Back Box, Cold Weather Rated, CEC compliant ³, ⁸, ¹⁴, ²⁷
P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage)
R=NEMA Twistlock Photocontrol Receptacle
PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle ¹⁵
AHD145=After Hours Dim, 5 Hours ¹⁶
AHD245=After Hours Dim, 6 Hours ¹⁶
AHD255=After Hours Dim, 7 Hours ¹⁶
AHD355=After Hours Dim, 8 Hours ¹⁶
MS-LXX=Motion Sensor for On/Off Operation ¹⁷, ¹⁸, ¹⁹
MS/DIM-LXX=Motion Sensor for Dimming Operation ¹⁷, ¹⁸, ¹⁹
LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ¹⁹, ²⁰, ²¹
LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ¹⁹, ²⁰, ²¹
L90=Optics Rotated 90° Left
R90=Optics Rotated 90° Right
MT=Factory Installed Mesh Top
LCF=Light Square Trim Plate Painted to Match Housing ²²
HSS=Factory Installed House Side Shield ²³
CE=CE Marking and Small Terminal Block ²⁴
ZW=WaveLinx-enabled Module and 4-PIN Receptacle ²⁹, ³⁰
ZD=WaveLinx-enabled Module with DALI driver and 4-PIN Receptacle ²⁹, ³⁰
SWPD4XX=WaveLinx Sensor Only, 7'-15' ³¹, ³²
SWPD5XX=WaveLinx Sensor Only, 15'-40' ³¹, ³²
WOBXX=WaveLinx Sensor with Bluetooth, 7'-15' ³¹, ³²
WOFXX=WaveLinx Sensor with Bluetooth, 15'-40' ³¹, ³²

Accessories (Order Separately)

OA/RA1013=Photocontrol Shorting Cap
OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V
OA/RA1201=NEMA Photocontrol - 347V
OA/RA1027=NEMA Photocontrol - 480V
MA1252=10kV Circuit Module Replacement
MA1059XX=Thru-branch Back Box (Must Specify Color)
FSIR-100=Wireless Configuration Tool for Occupancy Sensor ¹⁷
LS/HSS=Field Installed House Side Shield ²³, ²⁵
WOLC-7P-10A=WaveLinx Outdoor Control Module (7-pin) ²⁶, ²⁹
SWPD4-XX=Wavelinx Wireless Sensor, 7' – 15' Mounting Height ²⁹, ³⁰, ³¹
SWPD5-XX=Wavelinx Wireless Sensor, 15' – 40' Mounting Height ²⁹, ³⁰, ³¹

NOTES:
1. DesignLight Consortium® Qualied. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Standard 4000K CCT and minimum 70 CRI.
3. Two light squares with CBP options limited to 25°C, 120-277V only. Not available in combination with sensor options at 1200mA.
4. Requires the use of a step down transformer. Not available in combination with sensor options at 1200mA.
5. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
6. Custom colors are available. Setup charges apply. Paint chip samples required. Extended Lead times apply.
7. Extended lead times apply. Use dedicated IES files when performing layouts.
8. Not available with HA option.
9. Cannot be used with other control options.
10. Low voltage control lead brought out 18" outside fixture.
11. Only availble with BBB or CWB in single light square. HA option available for single light square only. Limited to 1A and below.
12. Not available with 1200, UPL, BBB and CWB options. Available for single light square only.
13. Not available with SL2, SL3, SL4, HA, BBB, CWB, R, or PER7 options.
14. Operates a single light square only. Operates at -20°C to +40°C. Backbox is non-IP rated.
15. Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls.
16. Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
17. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
18. Replace LXX with the available mounting height options: L08, L20, L40 or L40W are the only choices.
19. Includes integral photosensor.
20. Enlighted wireless sensors are factory installed requiring network components in appropriate quantities. See www.cooperlighting.com for Enlighted application information.
21. Bronze sensor is shipped with Bronze fixtures. White sensor shipped on all other housing color options.
22. Not available with HSS option.
23. Only for use with SL2, SL3 and SL4 distributions. The light square trim plate is painted black when the HSS option is selected.
24. CE is not available with the 1200, DALI, LWR, MS, MS/DIM, P, R or PER7 options. Available in 120-277V only.
25. One required for each light square.
26. Requires PER7.
27. Control option limited to P=Button Type Photocontrol (must specify voltage).
28. Narrow-band 590nm +/-5nm for wildlife and observatory use. Supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.
29. Cannot be used in conjunction with photocontrol or other controls systems (P, R, MS, LWR).
30. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
31. Requires ZW or ZD receptacle.
32. Replace XX with sensor color (WH, BZ or BK.)

COOPER Lighting Solutions

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

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September 15, 2020 6:23 PM

3A / E2 — WALL FIXTURE(S) CUTSHEET - TYPES SW43 & SW44
NO SCALE

LUMINAIRE SCHEDULE - EXTERIOR

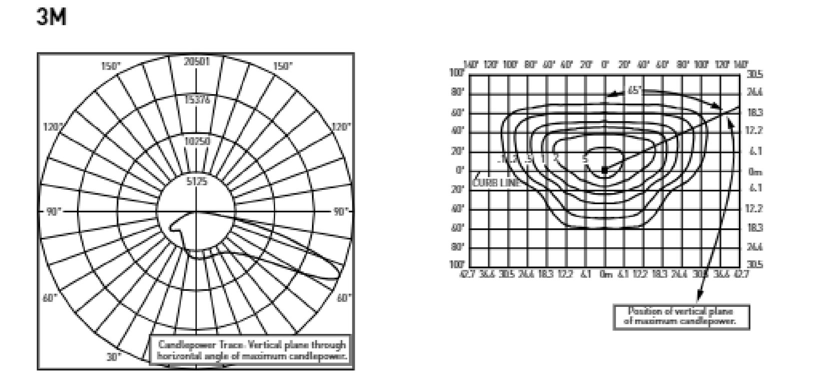
LUMINAIRE CRITERIA		PRODUCT INFORMATION			SOURCE						ELECTRICAL INFORMATION					ADDITIONAL INFORMATION		
ID	DESCRIPTION	FINISH	MANUFACTURER	MODEL OR SERIES	LAMP	LUMENS	FT	COLOR TEMP	CRI	LIFE RATING	DIMMING TYPE	POWER SUPPLY	VOLTAGE	WATTAGE	FT	MOUNTING	ACCESSORIES	SCHEDULE NOTES
FL10	1-IN PROFILE SURFACE ASYMMETRIC LINEAR, LENGTH PER PLAN EXTRUDED ALUMINUM HOUSING, IP66 WET LOCATION PLASTIC END CAPS WITH RUBBER OVERMOLD FOR CABLE CONNECTORS UV STABILIZED ACRYLIC OR POLYCARBONATE LENS, ASYMMETRIC DISTRIBUTION ADJUSTABLE LOCKING MOUNT	ALUMINUM	ECONSENSE	TROV L50 SERIES	LED	100	PER FT	4000K	80 MIN.	50,000 HR @L80	0-10V TO 10%		UNV	2 MAX	PER FT	SURFACE		3
RD60	6-IN DOWNLIGHT - MEDIUM SELF-FLANGED SEMI-SPECULAR FINISHING TRIM DAMP LOCATION LISTED SM/H RATIO OF 1.0		ACUITY (GOTHAM) COOPER (PORTFOLIO) SIGNIFY (LIGHTOLIER)	EVO* LD6B* C6RN*	LED	1,000		4000K	80 MIN.	60,000 HR @L70	0-10V TO 10%		UNV	15 MAX		RECESS		
RL48F	4-IN WIDE RECESSED LED FIXTURE, LENGTH PER PLAN EXTRUDED ALUMINUM RAILS, BACK CHANNELS, AND END CAPS WET LOCATION SATIN OR FROSTED FLUSH ACRYLIC LENS	MATTE WHITE	ALW AXIS FINELITE FOCAL POINT LUMENWERX LUX ILLUMINAIRE	LIGHTPLANE LP3.5RWL-* WBRLED-* HP-4-WLR-* SEEM4LWL* VIAWETR-* EOS 3.0-RWET-*	LED	100	PER FT	4000K	80 MIN.	50,000 HR @L70	0-10V TO 10%		UNV	5 MAX	PER FT	RECESS GRID	F = FLANGE TYPE	
SP13	AREA LIGHT - PEDESTRIAN SCALE DISTRIBUTION: SP13=TYPE III DIE-CAST ALUMINUM FRAME AND HEAT SINK, IP65 RATED MAX. BUG RATING: TYPEII/III/IV = B2-U0-G2	BRONZE	CREE	OSQMC SERIES	LED	4,000		4000 K	70 MIN.	50,000 HR @L70	0-10V TO 10%	INTEGRAL DIMMING DRIVERS	UNV	30 MAX		POLE 15' ROUND STRAIGHT STEEL ON 4" CONCRETE BASE	POLE BASE ANCHOR BOLT COVER	1
SP24	AREA LIGHT DISTRIBUTION: SP24=TYPE IV DIE-CAST ALUMINUM FRAME AND HEAT SINK, IP65 RATED MAX. BUG RATING: TYPEII/III/IV = B2-U0-G2	BRONZE	CREE	OSQMC SERIES	LED	15,000		4000 K	70 MIN.	50,000 HR @L70	0-10V TO 10%	INTEGRAL DIMMING DRIVERS	UNV	100 MAX		POLE 25' ROUND STRAIGHT STEEL ON 30" CONCRETE BASE	POLE BASE ANCHOR BOLT COVER VIBRATION DAMPENER	1
SW43 SW44	EXTERIOR WALL PACK DISTRIBUTION: SW43=TYPE III, SW44=TYPE IV DIE-CAST ALUMINUM FRAME AND HEAT SINK, IP65 RATED MAX. BUG RATING: TYPEII = B2-U0-G2, TYPEIII/IV = B1-U0-G2	BRONZE	ACUITY (LITHONIA) COOPER (McGRAW EDISON) CURRENT (BEACON) SIGNIFY (GARDCO)	DSXW1 LED * GWC * TRV-D * PWS *	LED	5,300 MIN.		4000K	70 MIN.	50,000 HR @L70	0-10V TO 10%	INTEGRAL DIMMING DRIVERS	UNV	60 MAX		WALL 12' AFF UNO ON PLANS		

GENERAL NOTES:
A. FIXTURE MANUFACTURERS ARE LISTED ALPHABETICALLY AND NOT ACCORDING TO BASIS OF DESIGN.
B. PROVIDE UNITS MEETING FIXTURE SCHEDULE DESCRIPTION AND SPECIFICATION REQUIREMENTS. THE FIXTURE CATALOG NUMBER IS NOT COMPLETE; USE ONLY AS A GUIDELINE.
C. LUMEN VALUES IN KEY PARAMETERS COLUMN ARE MINIMUM DELIVERED LUMENS, INCLUDING OPTIONS AND ACCESSORIES.
D. DELIVERED LUMENS SHALL NOT EXCEED 25% OF VALUES LISTED OR 25% OF VALUE IF RANGE IS LISTED..
E. ALL FIXTURES SHALL BE PAINTED AFTER FABRICATION.

SCHEDULE NOTES:
1. PROVIDE METALLIC POLE BASE COVER, FINISH TO MATCH POLE AND FIXTURE HEADS.

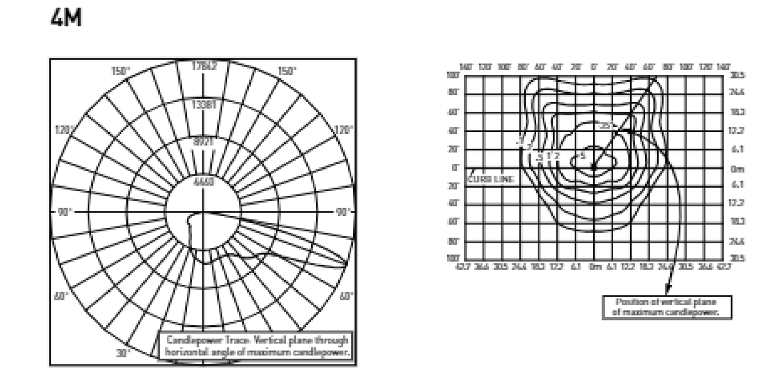
ABBREVIATIONS:
CLG: CEILING
CRI: COLOR RENDERING INDEX
ETD: EMERGENCY TRANSFER DEVICE
FC: FOOTCANDLES
FT: FOOT
LPW: LUMEN PER WATT
M.H.: MOUNTING HEIGHT
MTD : MOUNTED
O.C.: ON-CENTER
PAF: PAINT AFTER FABRICATION
SM/H: SURFACE-TO-MOUNT-HEIGHT RATIO
UNV: UNIVERSAL VOLTAGE
VA: VOLT-AMPS
W/: WITH
W/O: WITHOUT

3M



4E / E2 — PHOTOMETRIC SUMMARY - TYPE SP13
NO SCALE

4M



4F / E2 — PHOTOMETRIC SUMMARY - TYPE SP24
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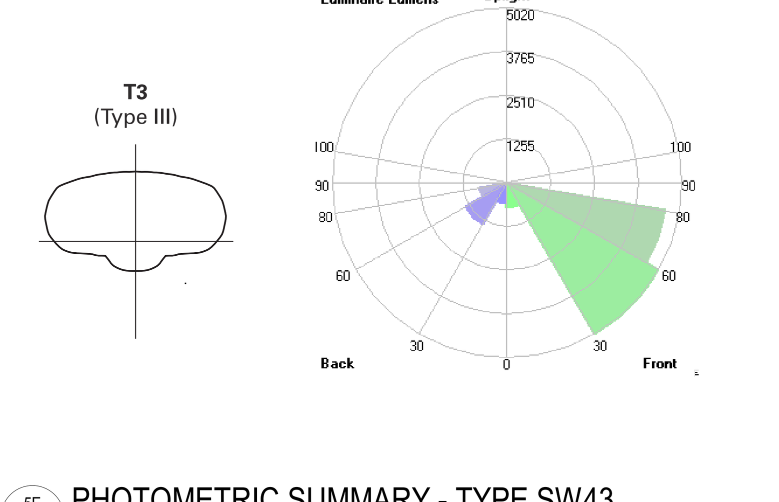

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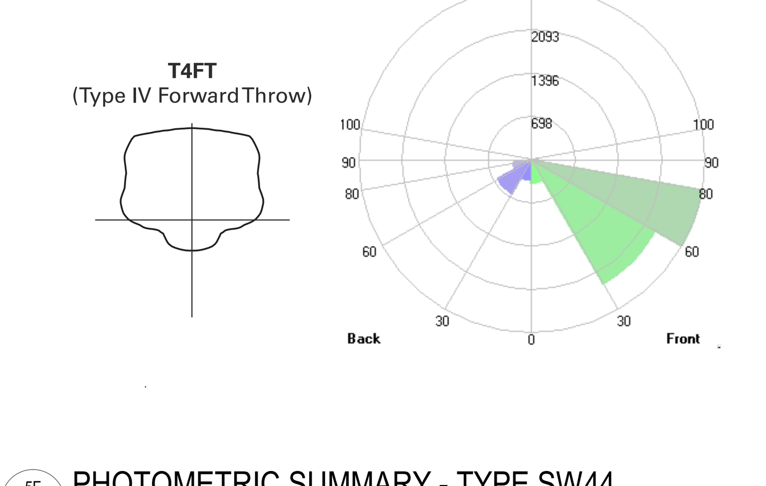

5F / E2 — PHOTOMETRIC SUMMARY - TYPE SW44
NO SCALE

DLR GROUP
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7290 West 103rd Street
Overland Park, KS 66213
CA No. 000939

6/27/24

DATE: 6/27/2024

ARCHITECT
DLR GROUP
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OVERLAND PARK, KS 66213
P: (913) 897-7811 F: (402) 330-2749

STRUCTURAL ENGINEER
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OVERLAND PARK, KS 66213
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MEP ENGINEERS
DLR GROUP
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1020 E. 8TH ST.
KANSAS CITY, MO 64118
P: (816) 283-3456

AV/TELECOM/ ACOUSTICS/ SECURITY DESIGNER
BRANCHPATTERN
1508 GRAND BOULEVARD
KANSAS CITY, MO 64108
P: (816) 283-3456

MCC AUTOMOTIVE INSTITUTE ADDITION AND REMODELS
METROPOLITAN COMMUNITY COLLEGE - LONGVIEW
500 SW LONGVIEW RD.
LEE'S SUMMIT, MO, 64081

PRELIMINARY DEVELOPMENT PLAN
03.22.24

13-23128-00

PHOTOMETRIC DETAILS & SCHEDULES

E2

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DLRGROUP

© DLR Group
7290 West 103rd Street
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6/27/24

DATE: 6/27/2024

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MCC AUTOMOTIVE INSTITUTE ADDITION AND REMODELS

METROPOLITAN COMMUNITY COLLEGE - LONGVIEW

500 SW LONGVIEW RD.
LEE'S SUMMIT, MO, 64081

PRELIMINARY DEVELOPMENT PLAN

03.22.24

13-23128-00

PHOTOMETRIC DETAILS & SCHEDULES

E3

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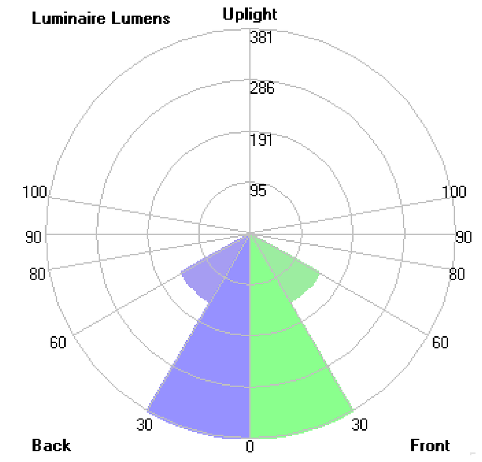

2F / E3 — PHOTOMETRIC SUMMARY - TYPE RD60
NO SCALE

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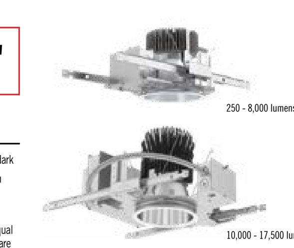
gotham | EVO — Multiple Layers of Light

Luminaire Type:
Catalog Number:

General Illumination Round Downlight 6"



OVERVIEW

Feature Set

- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 MacAdam Ellipse; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- ENERGY STAR® certified product*
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. UGR FAQ

design select — Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect. *See ordering tree for details

Distribution

Very Narrow (VND) 0.5 S:MH · Narrow (ND) 0.7 S:MH · Medium (MD) 0.8 S:MH · Medium Wide (MWD) 1.0 S:MH · Wide (WD) 1.2 S:MH

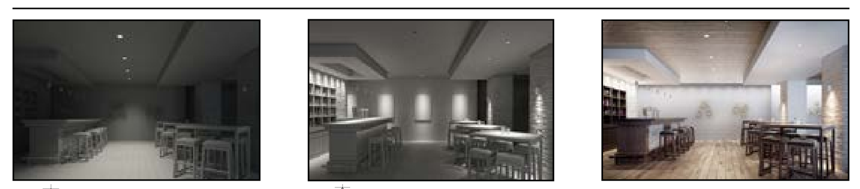
Superior Performance

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	8000	10,000	12,000	15,000	17,500
Delivered Lumens	297	519	776	994	1471	2006	2537	3077	3542	4027	4533	5256	6371	8247	10637	12332	15776	17801
Wattage	3.4	6.2	8.2	9.6	14.7	19.7	24.7	29.5	33.8	39.0	47.3	48.7	57.6	74.9	97.1	115.0	150.9	175.3
Lumens per Watt	87.4	83.7	94.6	103.5	100.1	101.8	102.7	104.3	104.8	103.3	95.8	107.9	110.6	110.1	109.5	107.2	104.5	101.5

*Based on 3500K AR LSS MWD 80CRI

COMPLIMENTARY PRODUCTS

Coordinated Apertures I Multiple Layers of Light



General Illumination Layer I EVO · High Center Beam Layer I Incito · EVO + Incito — Multiple Layers of Light

Core: Downlight, Adjustable, Open Wallwash, Lensed Wallwash, Cylinder, Pinhole, Bevel, Hyperbolic
Healthcare: MRI, Surgical Suite, Patient Room
Special Applications: Dynamic, Food Service, Vandal/Tamper, Clean Room, Shower, Steam Room

GOTHAM ARCHITECTURAL DOWNLIGHTING I 1400 Lester Road Conyers, GA 30012 I P 800-705-SERV (7378) I gothamlighting.com
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gotham | EVO — 6" General Illumination Round Downlight

ORDERING INFORMATION

Design Select options indicated by this color background.

Luminaire Type:
Catalog Number:

EXAMPLE: EVO6 35/150 AR MWD LSS MVOLT EZ1

Series	Color Temperature	Nominal Lumen Values		Reflector & Flange Color	Trim Style	Finish
EVO6	27/ 2700 K	02 250 lumens	40 4000 lumens	AR Clear	(blank) Self-flanged	LSS Semi-specular
	30/ 3000 K	05 500 lumens	45 4500 lumens	PR Pewter	FL Flangeless	LD Matte-diffuse
	35/ 3500 K	07 750 lumens	50 5000 lumens	WTR Wheat		LS Specular
	40/ 4000 K	10 1000 lumens	60 6000 lumens	GR Gold		
	50/ 5000 K	15 1500 lumens	80 8000 lumens	WR¹ White		
		20 2000 lumens	100 10000 lumens	BR¹ Black		
		25 2500 lumens	120 12000 lumens	WRAMF¹ White Anti-microbial		
		30 3000 lumens	150 15000 lumens	TRALTBD¹,² RAL paint for pricing only		
		35 3500 lumens	175 17500 lumens	TCPC¹ Custom paint color		

Distribution	Voltage	Driver⁵
VND Very Narrow (0.5 s/mh)	MVOLT	GZ10 0-10V driver dims to 10%
ND Narrow (0.7 s/mh)	120	GZ1 0-10V driver dims to 1%
MD Medium (0.9 s/mh)	277	EZ10 eldoLED 0-10V ECOdrive. Linear dimming to 10% min.
MWD Medium Wide (1.0 s/mh)	347³,⁴	EZ1 eldoLED 0-10V ECOdrive. Linear dimming to 1% min.
WD Wide (1.2 s/mh)		EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.
		EDAB eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.
		EDXB eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Includes termination resistor. Refer to DMXR Manual. Minimum 1000 lumens/Maximum 15000 lumens.
		ECOD⁶ Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black. Max: 4000LM.

Control Interface	Emergency Options	Options
NLT⁷ nLight® dimming pack controls	EL Emergency battery pack, 10W, with integral test switch	SF Single fuse. Specify 120V or 277V.
NLTER³,⁷,⁸ nLight® dimming pack controls emergency circuit	ELR Emergency battery pack, 10W, with remote test switch	TRW¹¹ White painted flange
NLTAIR2⁹,¹⁰ nLight® AIR enabled	ELSD Emergency battery pack, 10W, with self-diagnostics, integral test switch	TRBL¹² Black painted flange
NLTAIRER2³,⁸,¹⁰ nLight® AIR enabled emergency	ELRSD Emergency battery pack, 10W, with self-diagnostics, remote test switch	FRALTBD² Flange ring only RAL color for pricing only
NLTAIREM2³,⁹ nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit with battery pack options.	E10WCP Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch	FCPC Flange custom paint color
	E10WCPR Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch	N80¹³ nLight® Lumen Compensation
	BGTD Bodine generator transfer device. Specify 120V or 277V.	GTD generator transfer device. Specify 120V or 277V
		90CRI High CRI (90+)
		CP¹⁴ Chicago Plenum. Specify 120V or 277V for 5000lm and above.
		HAO¹⁵ HAO High Ambient Option (40°C)
		RRL_ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on www.acuitybrands.com for RELOC® product specifications. Above ceiling access required.

ACCESSORIES – order as separate catalog numbers (shipped separately)

SCA6	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA6 10D. Refer to TECH-190.
CTA EVO6	6" Aperture ceiling thickness adapter, for up to 8,000LM (extends mounting frame to accommodate ceiling thickness up to 5").
CTA4-8 YK	4"-8" Aperture ceiling thickness adapter for use with EDXB or CP up to 8,000LM, or nTune options (extends mounting frame to accommodate ceiling thickness up to 5").
CTA4-8 YKHL	6" Aperture ceiling thickness adapter, for 10,000LM and up (extends mounting frame to accommodate ceiling thickness up to 5"). For use with CWW/DWW trims, EDXB, CP or nTune options.
ISD BC	0-10V wallbox dimmer. Refer to ISD-BC.

ORDERING NOTES

1. Not available with finishes.
2. Replace with applicable RAL number and finish when ready to order. See RAL BROCHURE for available color options. Not available with emergency battery pack options.
3. Not available with emergency battery pack options.
4. Supplied with factory installed step down transformer.
5. Refer to TECH-240 for compatible dimmers.
6. Not available with nLight®.
7. Specify voltage.
8. ER for use with generator supply power. Will require an emergency hot feed and normal hot feed.
9. Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.
10. When combined with the EZ1, EZ10, or EZB option, normal luminaires (non-emergency) can be used as a normal power sensing device for nearby nLight AIR devices and luminaires with EM emergency options.
11. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with WR (white reflector) or FL (flangeless) option.
12. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with BR (black reflector) or FL (flangeless) option.
13. Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
14. 12,000LM max with EL or nLight® options. 5,000LM max with Lutron drivers combined with EL. Not available with ELR, HAO, or EXAB, or any nLight® AIR dimming options.
15. Only available 5000LM - 15,000LM with eldoLED drivers.

GOTHAM ARCHITECTURAL DOWNLIGHTING I 1400 Lester Road Conyers, GA 30012 I P 800-705-SERV (7378) I gothamlighting.com
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gotham | EVO — 6" General Illumination Round Downlight

Tables of Use

Marked Spacing in Inches 25°C Ambient

Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture
500-5000	None	None	None
6000	24	12	5
8000	36	18	11
10000			9
12000			
15000			
17500	72	36	

EVO - eldoLED Driver Default Dimming Curve

Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EXA1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic	Linear
EXAB	<1%	Logarithmic	Linear
EDXB	<1%	Square	Linear

Marked Spacing in Inches 40°C Ambient

Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture
5000	24	12	5
6000			
8000	48	24	9
10000			
12000			
15000	72	36	9

Marked Spacing Chicago Plenum Open Frame in Inches 25°C Ambient

Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture
250-5000	None	None	None
6000	24	12	5
8000	36	18	11
10000			9
12000			
15000			
17500	72	36	

Marked Spacing Chicago Plenum Enclosure in Inches 25°C Ambient

Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture
250-6000	None	None	None
8000	36	18	6
10000	48	24	3
12000			

Control Provided (note: 347V/UVOLT versions provided with 347 option selected)

Nomenclature	Driver Description	NLT	NLTER	NLTAIR2	NLTAIRER2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2

How to Estimate Delivered Lumens in Emergency Mode

Delivered Lumens = 1.25 x P x LPW

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

Flangeless

Flangeless Installation

Gotham's flangeless option utilizes a micro-thin polymer mud ring that minimizes the amount of drywall compound required to finish the ceiling. The end result is a virtually undetectable flangeless downlight installation.

The polymer mud ring is installed independent of the of the recessed frame, therefore floating with the ceiling. This innovation minimizes any surface cracks during reflector installation, ceiling movement and any future service to the recessed frame, wiring, electronics, etc.

Partially finished mud ring, showing cross-section detail. · An EVO downlight requires only approximately 3" of plaster to finish. · EVO with flangeless trim

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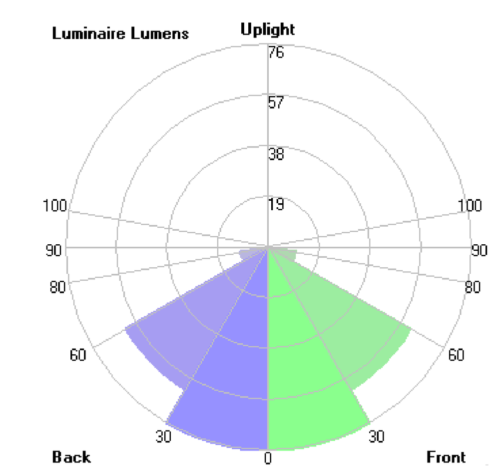
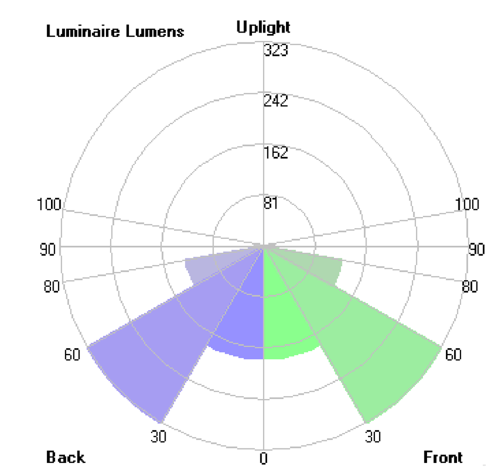
3A / E3 — DOWNLIGHT CUTSHEET - TYPE RD60
NO SCALE



3E / E3 — PHOTOMETRIC SUMMARY - TYPE FL10
NO SCALE



3F / E3 — PHOTOMETRIC SUMMARY - TYPE RL48F
NO SCALE

TROV® — INTERIOR + EXTERIOR | L50 GRAZE

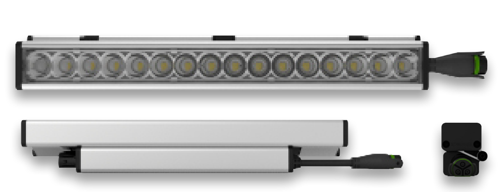
OVERVIEW • SPECIFICATIONS • ORDERING

DATE | PROJECT | FIRM | TYPE

THE L50 INCLUDES PATENTED OPTICAL DESIGN THAT DELIVERS THE WIDEST RANGE OF BEAM ANGLE OPTIONS FOR PRECISE COVE, WALL GRAZING, WALL WASHING OR LINE OF LIGHT APPLICATIONS. EXCLUSIVE FLIP TO FLAT™ HINGE DESIGN PROVIDES FLEXIBILITY WHEN MANAGING SMALL COVE DETAILS. TROV OFFERS SMOOTH, FLICKER FREE DIMMING DOWN TO 0%.

FEATURES :

- DIM TO 0%, ELV REVERSE PHASE
- 24 BEAM ANGLES
- MULTI-VOLT
- FLIP TO FLAT™
- 6 CCT OPTIONS
- 80+ AND 90+ CRI OPTIONS
- IP54 INTERIOR AND IP66 EXTERIOR OPTIONS



MODEL/ SIZE	INTERIOR/ EXTERIOR	LENGTH	POWER	CCT	CRI	VOLTAGE	OPTICS
L50	I, E	12", 48"	02, 04, 06, 08, 10, 12	WHITE CCT: 22, 27, 30, 35, 40, 50; MONO COLOR: GR****, BL, AM, RD***	80, 90*, Blank For Color	MULT (120-277V)	GRAZING: 9x9, 9x17, 9x29, 9x59, 15x15, 15x23, 15x35, 15x65; COVE: 120**, Asym; LINE OF LIGHT: LOL; WASHING: 25x25, 25x33, 25x45, 25x75, 39x9, 55x25, 40x40, 40x48, 40x60, 40x90, 45x15, 70x40, 70x70

EXAMPLE: L50-I-48-10-27-90-MULT-15x65

*90 CRI not available in 2200K or 5000K **120 is only available with Exterior option. See L35 spec sheet for interior cove options. ***Red is not available in 12W or 10W. ****Green is not available in 12W.

PERFORMANCE	WATTS	OPTIC	LUMEN OUTPUT	EFFICACY
	2W	9°x 29°	158 lm/LF (519 lm/m)	79 lm/W
	4W	9°x 29°	389 lm/LF (1277 lm/m)	97 lm/W
	6W	9°x 29°	620 lm/LF (2035 lm/m)	103 lm/W
	8W	9°x 29°	864 lm/LF (2833 lm/m)	108 lm/W
	10W	9°x 29°	1046 lm/LF (3432 lm/m)	105 lm/W
	12W	9°x 29°	1217 lm/LF (3990 lm/m)	101 lm/W

ALL LUMEN DATA IS FROM 4000K 80CRI FIXTURES. PLEASE SEE PHOTOMETRY SPEC SHEET FOR ADDITIONAL LUMEN DATA.

COLOR RENDERING INDEX: 80+, 90+
COLOR CONSISTENCY: 2-STEP MACADAM ELLIPSE
LUMEN DEPRECIATION / RATED LIFE:

WATTS	L70 @ 25C	L70 @ 50C	L90 @ 25C	L90 @ 50C
2W-12W	>150,000	>70,000	>50,000	>25,000

*CALCULATIONS FOR LED FIXTURES ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALCULATOR

ELECTRICAL — POWER CONSUMPTION: 2W*/LF (6.6W/M) ; 4W/LF (13.2W/M) ; 6W/LF (19.8W/M) ; 8W/LF (26.4W/M) ; 10W/LF (33W/M) ; 12W/FL (39.6W/M) * 3W/LF (9.9W/M) at 220V -277V

MAX FIXTURE RUN LENGTH

Volts	2W/LF Max Run all 1'	2W/LF Max Run all 4'	4W/LF Max Run all 1'	4W/LF Max Run all 4'	6W/LF Max Run all 1'	6W/LF Max Run all 4'	8W/LF Max Run all 1'	8W/LF Max Run all 4'	10W/LF Max Run all 1'	10W/LF Max Run all 4'	12W/LF Max Run all 1'	12W/LF Max Run all 4'
120	214	214	186	186	152	152	114	114	91	91	76	76
220	374	392	340	340	277	277	209	209	95	167	95	139
277	374	494	374	428	349	349	263	263	95	190	95	175

POWER FACTOR: 4W, 6W, 8W, 10W, 12W >0.9, 2W<0.9
OPERATING VOLTAGE: MULTIVOLT: 110-277VAC, 50/60 Hz
DRIVER: INTEGRAL TO FIXTURE: DE-RATED POWER AND SYNCHRONOUS START-UP AT FULL BRIGHTNESS
STARTUP TEMPERATURE: -40°F TO 122°F (-40°C TO 50°C)
OPERATING TEMPERATURE: -40°F TO 122°F (-40°C TO 50°C)
STORAGE TEMPERATURE: -40°F TO 176°F (-40°C TO 80°C)

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/downloads/rise for the most updated information.

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TROV® — INTERIOR + EXTERIOR | L50 GRAZE

OVERVIEW • SPECIFICATIONS • ORDERING

DATE | PROJECT | FIRM | TYPE

CONTROL — DIMMING: 110-277VAC, ELV TYPE 0.07%-100%, REVERSE PHASE, TRAILING EDGE. ETC control systems require 0-10V control using Ecosense LDCM. TROV will not work with ETC phase dimmers.

PHYSICAL — DIMENSIONS: W 1.6" x H 2" x L 12"/48" ; (41.6mm x 50.5mm x 304.7mm/1201mm)
HOUSING /LENS: EXTRUDED ALUMINUM; UV STABILIZED POLYCARBONATE; STAINLESS STEEL FASTENERS; PLASTIC ENDCAPS RUBBER OVERMOLD FOR CABLE ASSEMBLY
WEIGHT: 1.52LBS / 0.69KG (1FT) ; 4.95LBS / 2.25KG (4FT)
CONNECTORS: INTEGRAL MALE/ FEMALE CONNECTORS
ENVIRONMENT: INDOOR • ETL CERTIFIED FOR DRY/DAMP LOCATIONS IP54; OUTDOOR • ETL CERTIFIED FOR WET LOCATIONS IP66; IMPACT RATED TO IK10; Not intended to be used in water features such as waterfalls, fountains, etc.
BEAM ANGLE: GRAZING, WASHING, COVE, ASYMMETRIC, LINE OF LIGHT
MOUNTING OPTIONS: INTEGRAL MOUNTING AND ADJUSTABLE AIMING FROM 0°-180° IN 15° INCREMENTS

FIXTURE RATING & CERTIFICATIONS: ETL CERTIFIED, RoHS COMPLIANT, RCM CERTIFIED — Title 24 JA8-2016 *90 CRI models only

LIMITED WARRANTY: 5 YEARS

WIRING OPTIONS (MVOLT): 110-277VAC

Power Cable Assembly, TROV, Leader/Jumper, 10 foot ... CBL-3P-L-UNV-10*
Power Cable Assembly, TROV, Leader/Jumper, 50 foot ... CBL-3P-L-UNV-50*
Power Cable Assembly, TROV, Jumper, 5 foot ... CBL-3P-L-UNV-05**
Power Cable Assembly, TROV, Jumper, 1 foot ... CBL-3P-L-UNV-01**
Power Cable Assembly, TROV, Adjustable Jumper, 0" to 7" ... CBL-3P-L-UNV-ADJ
Power Cable Assembly, TROV, Male and Female terminator caps ... CBL-3P-L-UNV-CAPS
*Two (2) terminators are included with the 10' and 50' power cable. One Leader need per circuit/fixture run. Cables are not plenum rated.
** If using the 5' or 1' power cable assembly as a leader to power a run, one set of CBL-3P-L-UNV-CAPS will also be needed per cable.

0-10V CONTROL OPTIONS

100-120VAC / 277VAC Linear Dimming Control Module 0-10V - Plenum Rated ... LDCM-PL-120-277-010V-GR
All products come standard with ELV dimming capabilities. 0-10V Control options required for operation at 0-10V.

OPTIONAL ACCESSORIES

Mounting
Mounting Track and Clips Set, 48 Inch Track, 8 Clips ... MNT-L-TRKCLIP-48 — 48" track and clips set will work with one 48" fixture or four 12" fixtures. (FOR INTERIOR USE ONLY)
Mounting Track and Clips Set, 12 Inch Track, 2 Clips ... MNT-L-TRKCLIP-12 — 12" track will not work with 48" fixtures. (FOR INTERIOR USE ONLY)
Mounting Track Clip, TROV, Set of 2 ... MNT-L-CLIP — Clips needed = 12" fixtures need 1 set of 2 and 48" fixture needs 2 sets of 2.
90 Degree L bracket, TROV, Set of 2 ... MNT-L-LBKT — L-Brackets needed = 12" fixtures need 1 set of 2 and 48" fixture needs 1 set of 2.
Angle Locking Clip, TROV, Pack of 10 ... MNT-L-ANGLOCK — Angle Locks needed = 12" fixtures need 1 and 48" fixtures need 2. (Must order separately)
Mounting, Fine Adjustment Bracket, TROV ... MNT-L-FAB — Fine Adjustment Brackets needed = 12" fixtures need 1 and 48" fixtures need 2.
*Fine Adjustment Bracket is highly recommended for Grazing Optics.
Mounting, Fine Adjustment L-Bracket, TROV ... MNT-L-LFAB — Fine Adjustment L-Brackets needed = 12" fixtures need 1 and 48" fixtures need 2.
*Fine Adjustment L-Bracket is recommended for Asymetric Optics when aiming is needed.

Snap-on Lenses
Snap-on Lens, Frosted, 12 inch, L50 ... LENS-L50-FROST-12
Snap-on Lens, Frosted, 48 inch, L50 ... LENS-L50-FROST-48
Snap-on Lens, Clear, 12 inch, L50 ... LENS-L50-CLEAR-12
Snap-on Lens, Clear, 48 inch, L50 ... LENS-L50-CLEAR-48
Snap-on Lenses need = One 12" lens is needed per 12" fixture and one 48" lens is needed per 48" fixture. Snap on Lenses will not work with the asymmetric fixture. Clear lenses can be used to hold colored filters to customize the output color of any TROV fixture, except the ASYM. Color filters supplied by others.

Wall Mount Arm
Wall Mount Arm, 6 inch, TROV ... WMA-L-CA-06
Wall Mount Arm, 12 inch, TROV ... WMA-L-CA-12
Wall Mount Arm, 18 inch, TROV ... WMA-L-CA-18
Wall Mount Arm, 24 inch, TROV ... WMA-L-CA-24
Wall Mount Arm End Plate Set, TROV, Includes Left and Right ... WMA-L-END
Wall Mount Arm Joiner Plate, TROV ... WMA-L-JNR
Wall Mount Arms needed = For individual fixture installations two arms and one end set will be needed per fixture. For continuous run installation one end set will be needed per run. Each end set contains one left and one right end plate. One joining set will be needed per joint. One arm per fixture will be needed plus one extra arm to complete the run. For example: A 10ft run made with two 4ft and two 1ft fixtures will contain; 1 x WMA-L-END, 3 x WMA-L-JNR, and 5 x WMA-L-CA-12. Leader cables are not included with wall mount arms, end sets, or joiners sets.

Louvers
Louver, Asymmetric, 12 inch, L50 ... LV-L50-ASYM-12
Louver, Asymmetric, 48 inch, L50 ... LV-L50-ASYM-48
Louver, Symmetric, 12 inch, L50 ... LV-L50-SYM-12
Louver, Symmetric, 48 inch, L50 ... LV-L50-SYM-48
Louver, Honeycomb, 12 inch, L50 ... LV-L50-HCOMB-12
Louver, Honeycomb, 48 inch, L50 ... LV-L50-HCOMB-48
Louvers Needed = One 12" louver is needed per 12" fixture and one 48" louver is needed per 48" fixture. 48" louver is made up of four 12" louvers. Louvers cannot be used with the asymmetric fixture

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TROV® — INTERIOR + EXTERIOR | L50 GRAZE

OVERVIEW • SPECIFICATIONS • ORDERING

DATE | PROJECT | FIRM | TYPE

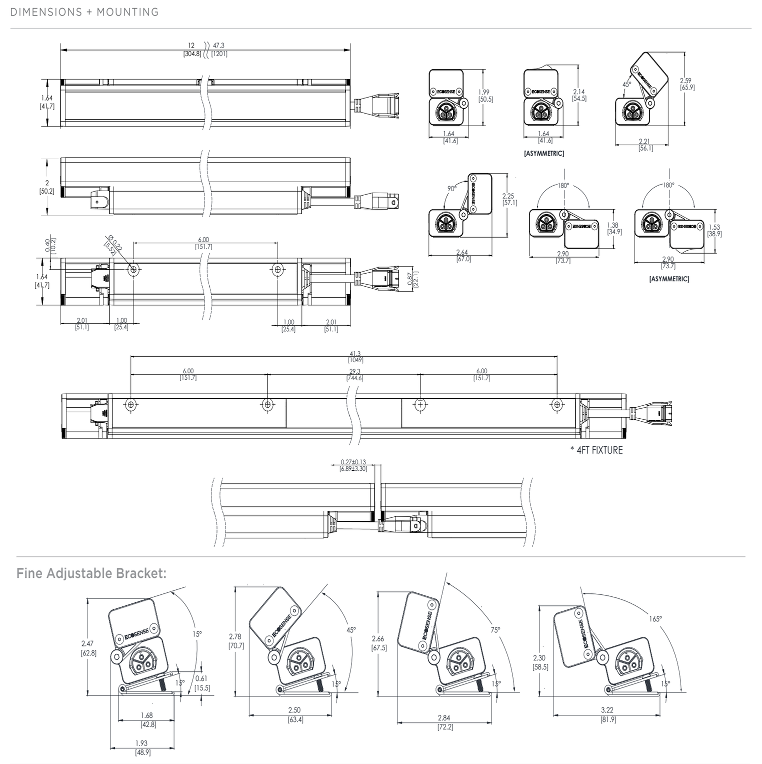
OPTIONAL ACCESSORIES

Masking Plates
Masking Plate, 3 inch high, 12 inch, L50 & L35 ... MP-L50-3H-12
Masking Plate, 3 inch high, 48 inch, L50 & L35 ... MP-L50-3H-48
Masking Plates needed = One 12" plate is needed per 12" fixture and one 48" plate is needed per 48" fixture.

Landscape Stake
Landscape Stake, 6 inch, TROV, Set of 2 ... LS-L-STK-06
Landscape Stake, 12 inch, TROV, Set of 2 ... LS-L-STK-12
Landscape Stake, 18 inch, TROV, Set of 2 ... LS-L-STK-18
Landscape Stakes needed = 12" and 48" fixtures both need one set of 2.

Wire Box
Conduit Connection, Wire Box, TROV, Interior Only, L50 ... CC-L-WIREBOX
Wire box can be used instead of a leader cable to start a run. 1/2" conduit fitting can attach directly to the box on one end and the fixture to the other.

DIMENSIONS + MOUNTING



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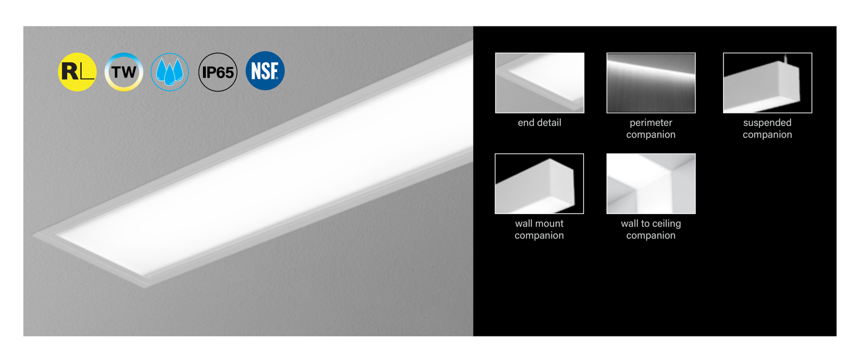
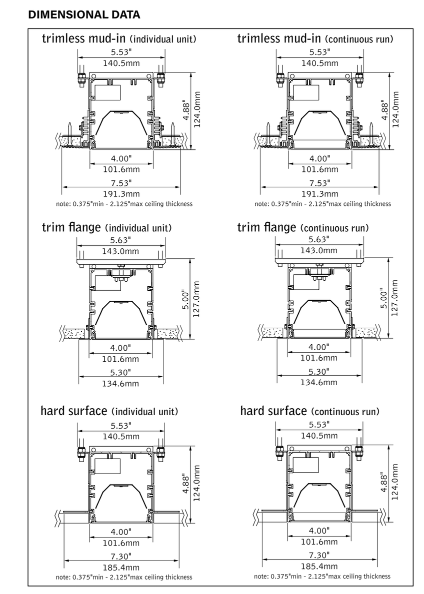
5A / E3 — CANOPY WALLWASH LINEAR CUTSHEET - TYPE FL10
NO SCALE

Seem® 4 — LED - WET LOCATION

FOCAL POINT®



DIMENSIONAL DATA



FEATURES

Narrow extruded aluminum 4" aperture recessed slot LED suitable for wet location.

Integrates with ceiling for a clean, unobtrusive aesthetic.

Individual units and continuous runs in 1' increments.

Available in flush, asymmetric, asymmetric room fill or batwing, lens.

LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

Tunable White: Supports human activity, well-being, and preferences with a light quality that evolves throughout the day.

PERFORMANCE

Flush Lens · Asymmetric Lens · Asymmetric Room Fill · Batwing Lens

Photometric performance is measured in accordance with IESNA LM-79. Visit focalpointlights.com for complete photometric data.

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4' PERFORMANCE CHART

Lumen Output	Nominal Lumens	Tested System Watts	LPW BW	LPW FL	LPW AS	LPW AF
275LF	1100	10	104	100	122	124
375LF	1500	13	113	108	126	129
625LF	2500	22	112	107	126	128
875LF	3500	32	109	105	125	127
1000LF	4000	37	109	104	124	126
1125LF	4500	44	108	104	122	124
1250LF	5000	49	107	102	120	123

Based on 3500K, 80 CRI, 4' lengths. Lumen multiplier: 90+ CRI = 0.87. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

STANDARD WHITE

Luminaire Series		FSM4LWL
Seem 4 LED Wet Location	FSM4LWL	
Shielding (ceiling applications only)		
Asymmetric Lens*	AS	
Asymmetric Room Fill*	AF	
Batwing Lens*	BW	
Flush Satin Lens (*individual units only)	FL	
Lumen Output		
275 Lumens per foot	275LF	
375 Lumens per foot	375LF	
625 Lumens per foot	625LF	
875 Lumens per foot	875LF	
1000 Lumens per foot	1000LF	
1125 Lumens per foot	1125LF	
1250 Lumens per foot	1250LF	
Color Temperature		
3000K, 80+ CRI	30K	
3500K, 80+ CRI	35K	
4000K, 80+ CRI	40K	
Circuits & Zones		
1 Circuit, non-emergency	1C	
Consult Ordering Guide on page 3 for multiple circuiting and zoning options	_C_Z_DL	
Voltage		UNV
120/277 UNV Volt	UNV	
Control System & Dimming Level		
0-10V - 1% Dimming	L11	
0-10V - 10% Dimming	LD1	
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
Ceiling Configuration		
Trim Flange Drywall (3' minimum with Lutron Drivers)	TF	
Trim Flange Wood (3' minimum with Lutron Drivers)	TFW	
Mud-in Trimless, pre-set for 1/2" Drywall	XF1	
Mud-in Trimless, pre-set for 5/8" Drywall	XF2	
Mud-in Trimless, set thickness in field (Mounting equipment assembled in field)	XFF	
Non-Drywall Hard Surface	XFN	
Hard Surface, Wood	XFW	
Factory Options (See Ordering Guide on page 4 for ordering details for DC, EC, EM & ECD.)		
Chicago Plenum (Not available with Flex Whip.)	CP	
Daylight Circuit	_DC	
Emergency Circuit	_EC	
Emergency Battery Pack†	_EM	
Emergency Control Device† († 4' minimum. 120/277 Volt only. EM or ECD not available at corners.)	_ECD	
6' New York City Flex Whip (120V)	FNY1	
6' New York City Flex Whip (277V)	FNY2	
6' Flex Whip	FW	
IP65 Rated (Individual units only. Not available with Flex Whip.)	IP65	
Finish		WH
Matte White Housing	WH	
Luminaire Length Specify luminaire/row length in 1' increments (2' minimum, lengths are nominal. Housing length is 1" shorter than specified.)	X'	

Focal Point LLC reserves the right to change specifications for product improvement without notification.

5D / E3 — CANOPY RECESSED LINEAR CUTSHEET - TYPE RL48F
NO SCALE