LEE'S SUMMIT HIGH SCHOOL **DEVELOPMENT PLAN - EAST PARKING LOT PHASE I**

400 SE BLUE PARKWAY, LEE'S SUMMIT, MO 64063 **SECTION 8 - TOWNSHIP 47 N - RANGE 31 W**

PREPARED BY:

14700 W 114TH TERR.

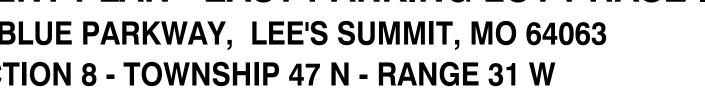
LENEXA, KANSAS 66215

CONTACT: DÁVID WOOD

EMAIL: wood@kveng.com

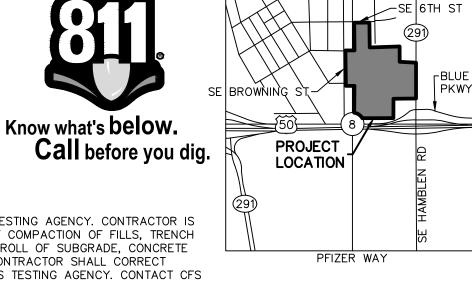
PHONE: (913) 894-5150

KAW VALLEY ENGINEERING, INC.





OWNER TO ENGAGE THIRD PARTY TESTING AGENCY. CONTRACTOR IS REQUIRED TO ARRANGE TESTING OF COMPACTION OF FILLS. TRENCH BACKFILL, INSPECTION AND PROOF ROLL OF SUBGRADE, CONCRETE TESTING AND ASPHALT DENSITY. CONTRACTOR SHALL CORRECT DEFICIENCIES IDENTIFIED BY OWNERS TESTING AGENCY. CONTACT CFS ENGINEERS, ADAM McEACHRON (913) 627-9040.



VICINITY MAP SEC 8 - TWP 47N - RNG 31W NOT TO SCALE

2. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY FACILITIES INCLUDING BUT NOT LIMITED TO WATER, POWER AND PORTA-POTTIES. COORDINATE LOCATION WITH SCHOOL DISTRICT.

STORM WATER MANAGEMENT:

STORM WATER MANAGEMENT IS PROPOSED AS PART OF THIS PROJECT COMPLIES WITH THE KC METROPOLITAN CHAPTER OF APWA DESIGN CRITERIA SECTION 5600 AS ADOPTED BY THE CITY OF LEE'S SUMMIT. PROPOSED STORM WATER MANAGEMENT SYSTEM WILL MITIGATE INCREASES IN RUNOFF FOR THE STORM EVENTS ANALYZED TO A RATE AT OR LESS THAN THE EXISTING CONDITIONS.

<u>UNDERGROUND UTILITY STATEMENT:</u>

ONE-CALL LOCATED UTILITIES AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS MADE AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR DOES NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL UNDERGROUND UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION DEPICTED ALTHOUGH HE DOES CERTIFY THAT THEY ARE DEPICTED AS ACCURATELY AS POSSIBLE FROM INFORMATION MADE AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES SHOWN HEREON BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY. MISSOURI ONE CALL TICKET NUMBER: #200431409, 200431440, 200431475, 200440745.

THE SURVEYED PARCEL LIES WITHIN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL FLOODPLAIN) AS DETERMINED BY FEMA FLOOD INSURANCE RATE MAP NUMBER 29095C0438G, MAP REVISED JANUARY 20, 2017, AND BY MAP NUMBER 29095C0436G, REVISED JANUARY 20, 2017 LEE'S SUMMIT. JACKSON COUNTY, MISSOURI. LOCATION DETERMINED BY A SCALED GRAPHICAL PLOT OF THE FLOOD INSURANCE RATE MAP.

SITE DATA:

DECREASE:

TOTAL SITE AREA: 1,983,297 SF - 45.53 Ac

PROJECT AREA/AREA OF DISTURBANCE PHASE I: 124,423 SF (2.856 AC.)

PARKING REQUIRED BY ZONING ORDINANCE: (103 CLASSROOMS = 618 PARKING STALLS) 6 STALLS PER CLASSROOM

1154 REGULAR (22 ACCESSIBLE) STALLS PROPOSED (COMPLETION OF PHASE I): 1116 REGULAR (22 ACCESSIBLE) STALLS PROPOSED: (COMPLETION OF PHASE II): 1171 REGULAR (22 ACCESSIBLE) STALLS

PROPOSED IMPERVIOUS COVERAGE WITHIN PHSAE I PROJECT AREA 90,419 S.F. - 2.076 AC. 76,499 S.F. - 1.756 AC.

13,920 S.F. - 0.323 AC.

TOTAL: RP-2, CP-1(EAST 290')

HORIZONTAL AND VERTICAL DATUM:

UNLESS OTHERWISE NOTED THE COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE (1983) WEST ZONE (NAD 1983) (NAVD 1988) SCALED AROUND 0,0

NORTHING: 303646.030 (GRID/METERS) 996313.829 (GROUND/FEET) EASTING: 860950.475 (GRID/METERS) 2824923.692 (GROUND/FEET)

SITE BENCHMARKS:

ELEVATION: 321.8 (METERS)

FOUND CUT SQUARE AT THE SOUTHWEST CORNER OF CONCRETE HEADWALL OF CONCRETE FLUME ON THE WEST SIDE OF THE SCHOOL SOUTHEAST OF ENTRY DRIVE. ELEVATION= 1042.70

1055.77 (FEET)

SET CUT SQUARE AT THE TOP NORTHEAST CORNER OF A CONCRETE PATIO WITH COVERED TABLES ON THE EAST SIDE OF BUILDING "B". ELEVATION= 1015.74

1/2" REBAR W/ ORANGE KVE CAP NORTHING: 996572.06 (GROUND) EASTING: 2827438.76 (GROUND) ELEV = 1049.49

996470.24 (GRID) 2827149.83 (GRID)

996468.55 (GRID)

996787.14 (GRID)

2827114.81 (GRID)

2826766.55 (GRID)

1/2" REBAR W/ ORANGE KVE CAP NORTHING: 996570.39 (GROUND) EASTING: 2827055.45 (GROUND)

ELEV = 1048.241/2" REBAR W/ ORANGE KVE CAP

OLSSON CONTROL POINT #3

NORTHING: 996889.02 (GROUND)

EASTING: 2827403.78 (GROUND)

NORTHING: 997219.69 (GROUND) 997117.77 (GRID) EASTING: 2828082.23 (GROUND) 2827793.20 (GRID) ELEV = 1034.64

EASTING: 2828118.84 (GROUND)

NORTHING: 997996.59 (GROUND)

997894.59 (GRID) 2827829.81 (GRID)

WARRANTY / DISCLAIMER

ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OF PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES

ANY CONSTRUCTION.

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

DAVID D. WOOD

ENGINEER MO # 2011037427

TION TE PI E'S SUMI SE BLUE P. SUMMIT, I

DESIGNER

THIS DRAWING SHALL NOT BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION IN WHOLE OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING, INC

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL

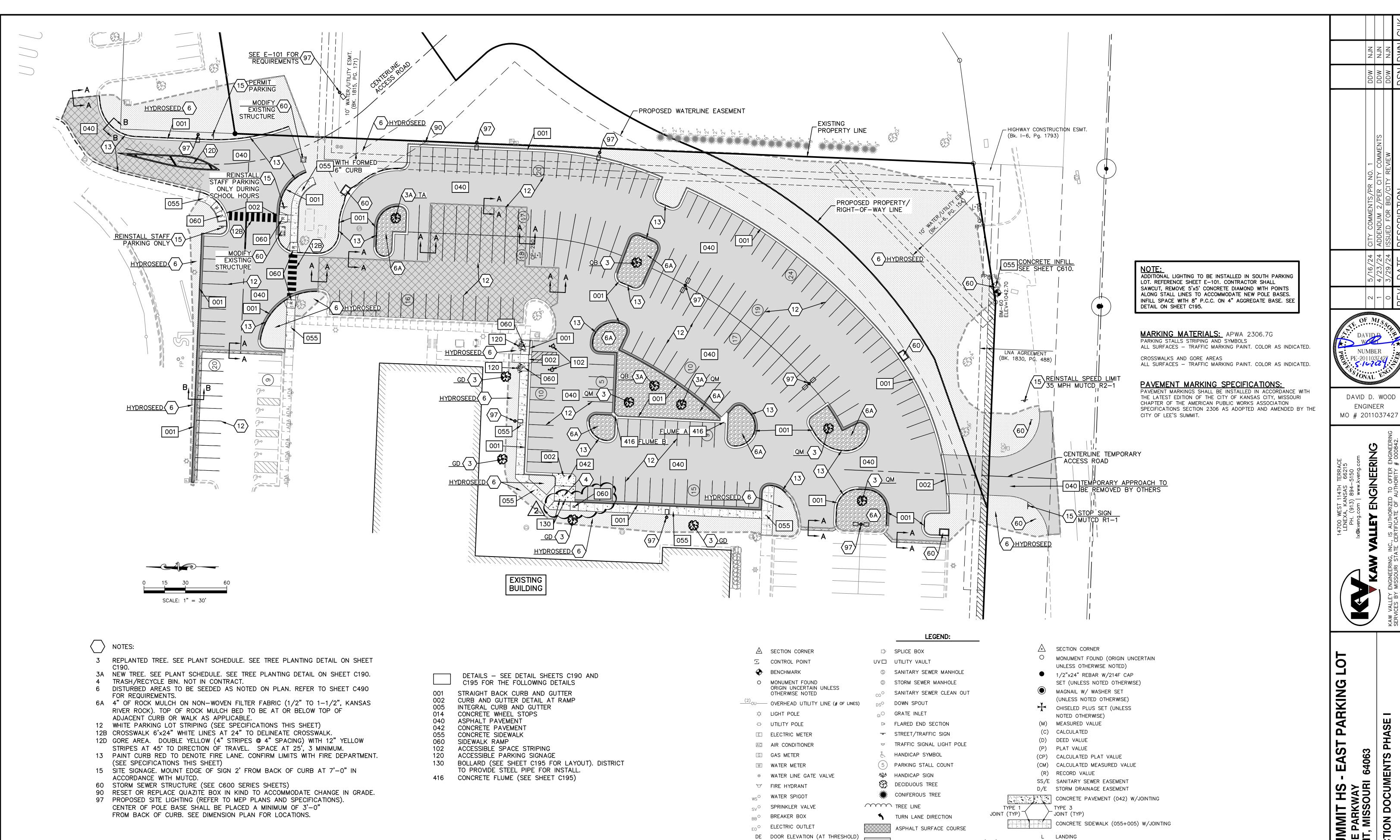
CAUTION - NOTICE TO CONTRACTOR

AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO

SAFETY NOTICE TO CONTRACTOR

PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY



	PLAN	T LIST					
	SYM.	BOTANICAL NAME	COMMON NAME	SIZE	POT/B&B	SPACING	REMARKS
		DECIDUOUS TREE					
4	GD	Gymnocladus dioicus 'Expresso'	Seedless Kentucky Coffeetree	2-1/2" Caliper	B&B		Single Straight Leader; Well Branched
4	QB	Quercus bicolor	Swamp White Oak	2-1/2" Caliper	B&B		Single Straight Leader; Well Branched
2	QM	Quercus maccrcarpa	Bur Oak	2-1/2" Caliper	B&B		Single Straight Leader; Well Branched
1	TA	Tilia americana 'Boulevard'	Boulevard Linden	2-1/2" Caliper	B&B		Single Straight Leader; Well Branched

WARRANTY PERIOD IS 1 YEAR AND AN ADDITIONAL 1 YEAR FROM THE TIME OF REPLANTING AS APPLICABLE.

A SPHALT EDGE TREATMENT. SEE SECTION ON C190	
NOTE: 1. ALL DIMENSIONS ARE TO BACK OF CURB UNLE	SS NOTED OTHERWSE.

FF FINISH FLOOR ELEVATION

→ BASKETBALL GOAL LIMITS OF DISTURBANCE

🚱 BUSH

FULL DEPTH ASPHALT PAVEMENT (040)

CONCRETE CURB AND GUTTER

CONCRETE CURB AND GUTTER WITH REVERSE FLOW

PAINTED CURB FOR FIRE LANE (13)

THERE IS NO PHYSICAL EVIDENCE OF OIL OR GAS WELLS ON THE SUBJECT PROPERTY. THERE IS NO RECORD OF A PERMITTED OIL OR GAS WELL ON THE MDNR MISSOURI GEOLOGICAL SURVEY.

R RAMP

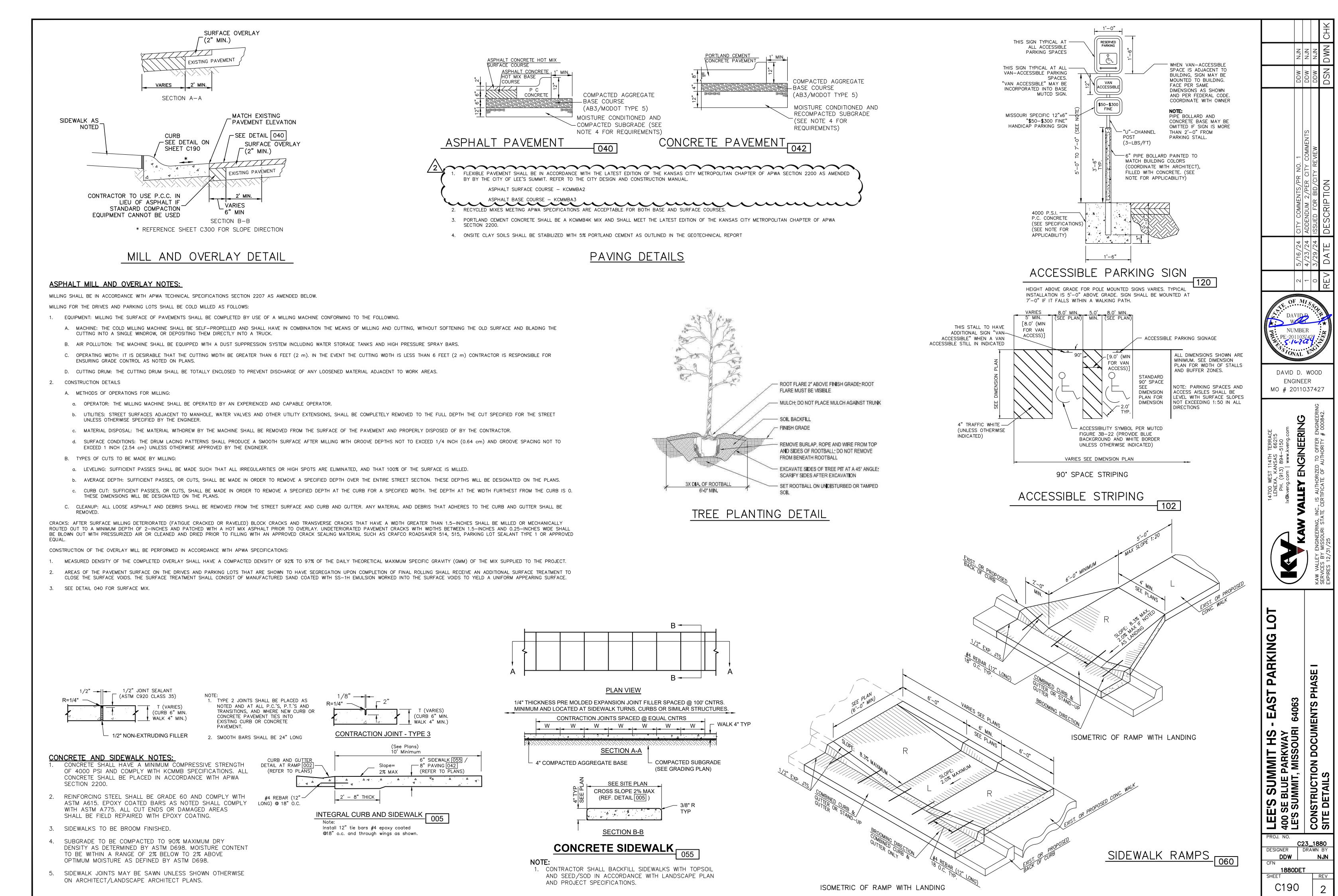
T TRANSITION

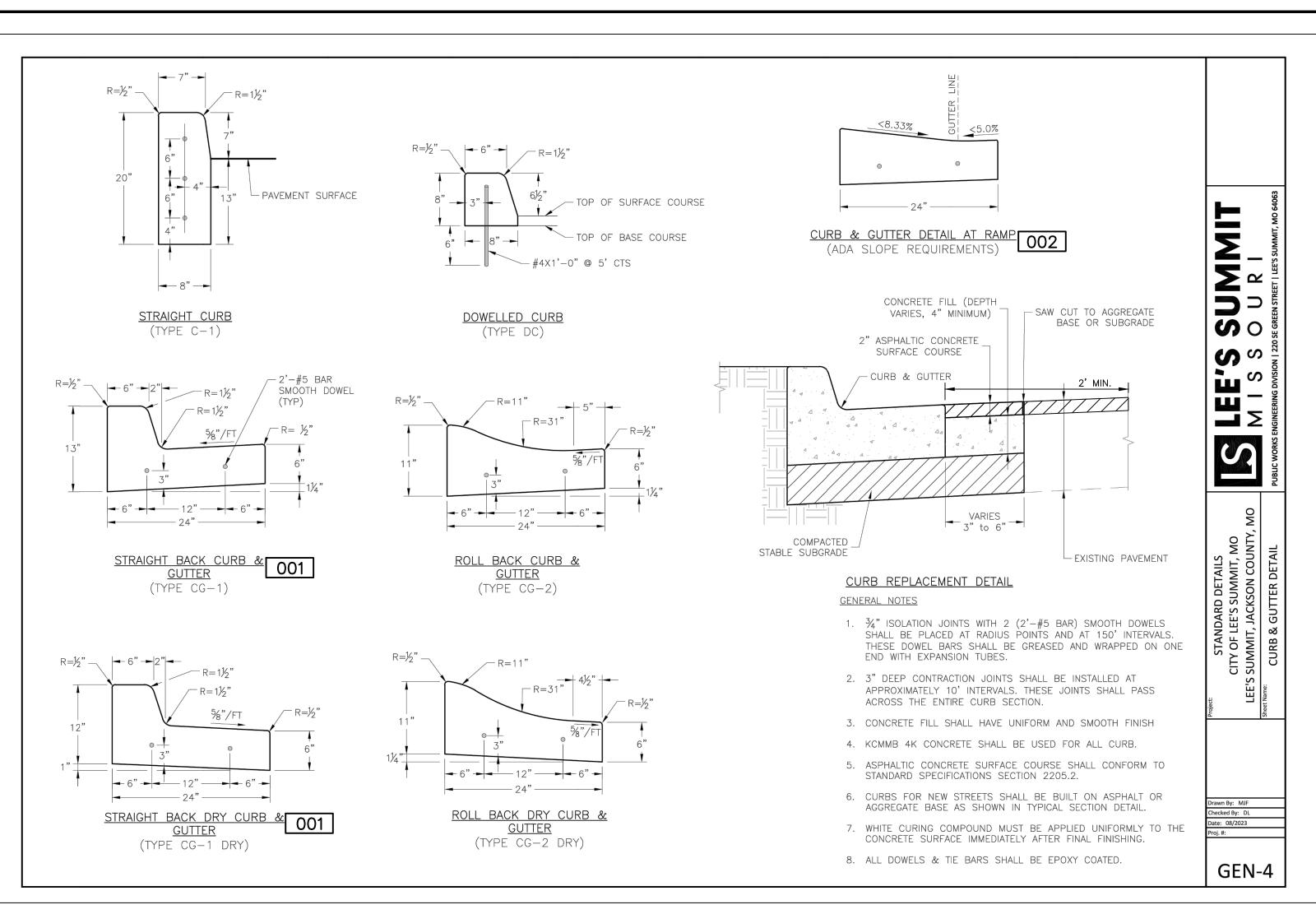
Know what's below. Call before you dig.

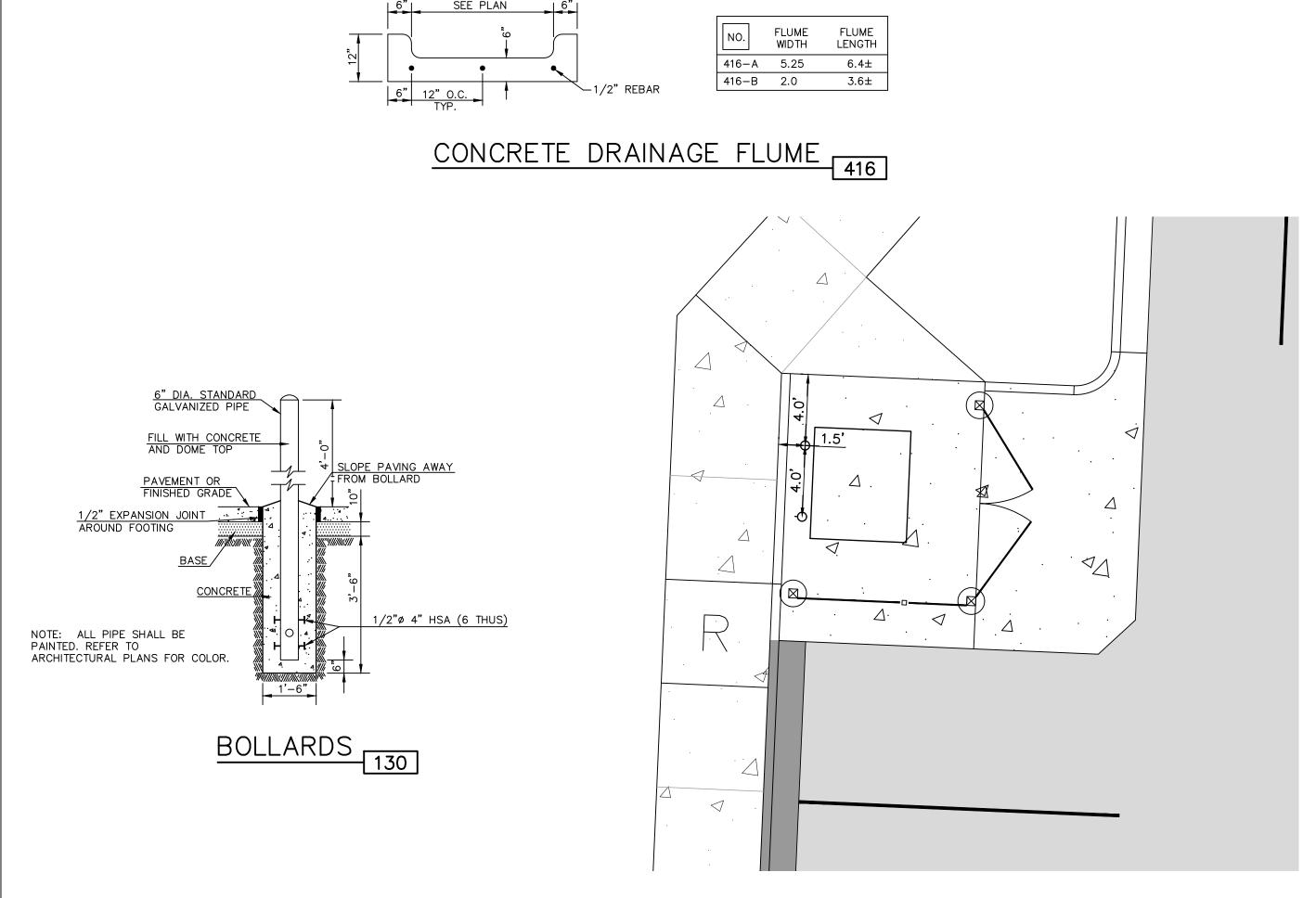
DESIGNER DRAWN B DDW

ENGINEER

ENGINEERING

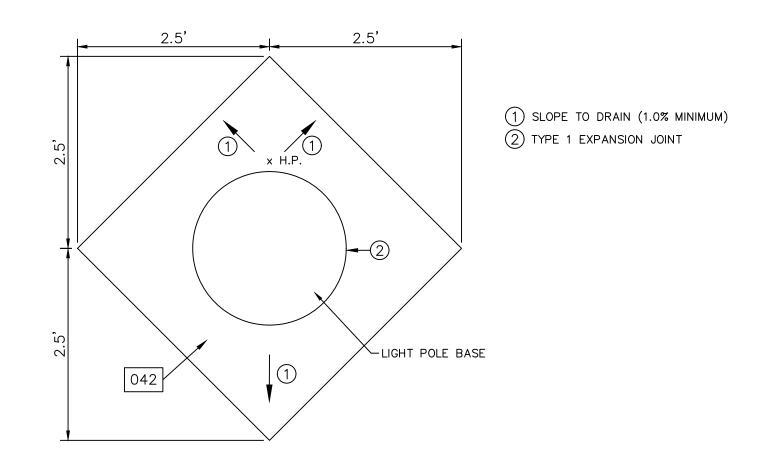




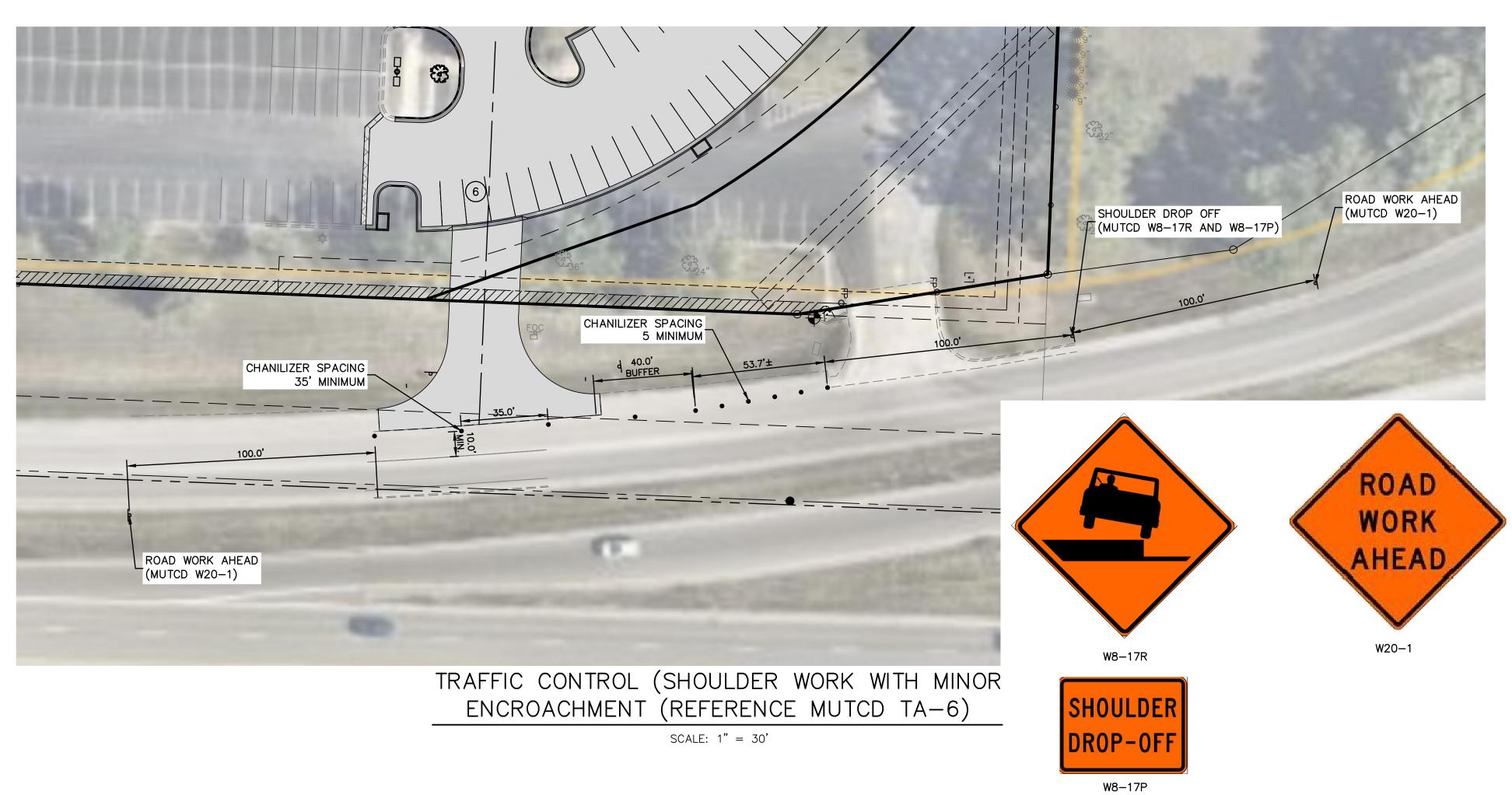


ADDITIONAL CURB & GUTTER NOTES; 1. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.

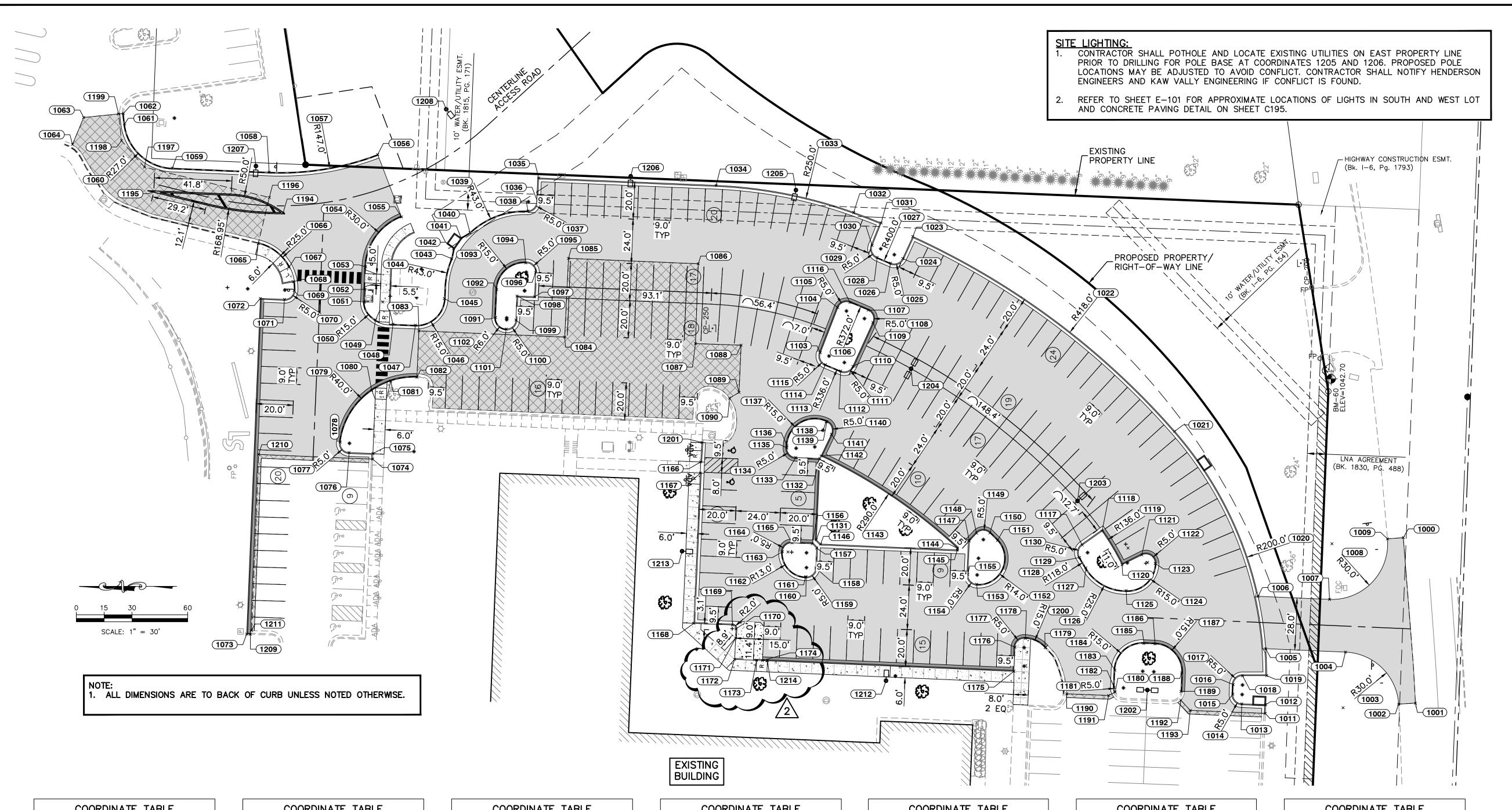
2. CURBS TO BE CONSTRUCTED ON MINIMUM 6 INCHES OF COMPACTED WELL GRADED BASE ROCK.



CONCRETE PAVING DETAIL FOR LIGHT POLES IN EXISTING PARKING LOT



ENGINEERING



	COORE	INATE TA	BLE
	NORTHING	EASTING	DESCRIPTION
1000	996516.95	2827291.07	SAW CUT
1001	996510.40	2827201.93	SAW CUT
1002	996519.44	2827201.41	EA
1003	996549.38	2827199.44	R30.0
1004	996548.09	2827229.42	EA
1005	996591.04	2827231.26	EA
1006	996595.16	2827259.46	EA
1007	996556.66	2827257.81	EA
1008	996555.38	2827287.78	R30.0
1009	996525.49	2827290.40	EA
1011	996591.28	2827196.42	ВС
1012	996591.10	2827201.07	ВС
1013	996603.94	2827201.56	ВС
1014	996603.75	2827206.56	R5.0
1015	996608.74	2827206.76	вс
1016	996608.54	2827211.90	ВС
1017	996603.54	2827211.70	R5.0
1018	996603.56	2827216.70	ВС
1019	996590.50	2827216.75	ВС
1020	996790.50	2827216.54	R200.0
1021	996640.07	2827348.34	вс
1022	996954.47	2827072.88	R418.0
1023	996781.11	2827453.24	ВС
1024	996786.53	2827441.38	ВС
1025	996791.08	2827443.46	R5.0
1026	996793.10	2827438.89	ВС
1027	996954.47	2827072.88	R400.0
1028	996800.31	2827441.98	ВС
1029	996798.38	2827446.60	R5.0
1030	996803.02	2827448 46	BC.

1031 | 996798.16 | 2827460.56 |

	COORE	INATE TA	BLE
	NORTHING	EASTING	DESCRIPTION
1032	996812.96	2827466.20	ВС
1033	996897.59	2827230.96	R250.0
1034	996887.08	2827480.74	BC
1035	996982.64	2827484.76	BC
1036	996983.19	2827471.77	BC
1037	996988.18	2827471.98	R5.0
1038	996988.39	2827466.99	ВС
1039	996990.20	2827424.03	R43.0
1040	997019.64	2827455.37	BC
1041	997024.44	2827452.52	ВС
1042	997028.48	2827446.80	ВС
1043	997029.57	2827441.32	ВС
1044	996990.20	2827424.03	R43.0
1045	997033.42	2827419.84	ВС
1046	997048.40	2827420.47	R15.0
1047	997049.03	2827405.49	ВС
1048	997061.07	2827405.99	ВС
1049	997070.48	2827408.29	ВС
1050	997066.55	2827417.98	R15.0
1051	997076.55	2827417.89	ВС
1052	997076.28	2827424.89	ВС
1053	997075.79	2827436.95	ВС
1054	997045.82	2827435.73	R30.0
1055	997056.50	2827463.76	ВС
1056	997069.32	2827497.40	ВС
1057	997121.68	2827634.76	R147.0
1058	997127.78	2827487.89	ВС
1059	997179.94	2827490.05	ВС
1060	997178.82	2827517.03	R27.0
1061	997205.64	2827513.89	ВС
1062	997206.29	2827519.52	ВС

	COORE	INATE TA	BLE
	NORTHING	EASTING	DESCRIPTION
1063	997227.67	2827517.36	MILL LIMITS
1064	997233.71	2827502.85	MILL LIMITS
1065	997133.67	2827449.43	ВС
1066	997139.33	2827425.08	R25.0
1067	997117.16	2827436.64	ВС
1068	997114.61	2827428.82	ВС
1069	997114.34	2827424.19	ВС
1070	997119.34	2827424.37	R5.0
1071	997119.54	2827419.38	ВС
1072	997132.53	2827419.90	ВС
1073	997139.89	2827239.11	ВС
1074	997072.02	2827333.35	BC
1075	997071.89	2827336.35	BC
1076	997084.74	2827336.87	BC
1077	997084.53	2827341.87	R5.0
1078	997089.49	2827342.50	BC
1079	997049.81	2827337.44	R40.0
1080	997072.52	2827370.37	BC
1081	997062.28	2827375.45	BC
1082	997048.20	2827377.41	BC
1083	997047.15	2827402.40	SAW CUT
1084	996968.61	2827399.10	SAW CUT
1085	996966.58	2827441.48	SAW CUT
1086	996896.68	2827438.56	SAW CUT
1087	996898.19	2827395.57	SAW CUT
1088	996873.61	2827394.71	SAW CUT
1089	996874.70	2827369.30	SAW CUT
1090	996879.81	2827366.18	SAW CUT
1091	997005.82	2827409.67	BC
1092	997005.19	2827424.66	BC
1093	996990.20	2827424.03	R15.0

	COORE	INATE TA	BLE
	NORTHING	EASTING	DESCRIPTION
1094	996989.57	2827439.01	BC
1095	996989.28	2827434.00	R5.0
1096	996984.29	2827433.79	BC
1097	996984.83	2827420.80	BC
1098	996994.32	2827421.20	BC
1099	996994.87	2827408.21	BC
1100	996999.87	2827408.42	R5.0
1101	997000.08	2827403.42	ВС
1102	996999.82	2827409.42	R6.0
1103	996830.91	2827390.66	ВС
1104	996821.52	2827414.91	ВС
1105	996816.86	2827413.11	R5.0
1106	996954.47	2827072.88	R372.0
1107	996805.18	2827413.61	ВС
1108	996807.18	2827409.03	R5.0
1109	996802.63	2827406.96	ВС
1110	996813.42	2827383.30	ВС
1111	996817.97	2827385.37	R5.0
1112	996819.97	2827380.79	ВС
1113	996954.47	2827072.88	R336.0
1114	996828.13	2827384.22	ВС
1115	996826.25	2827388.86	R5.0
1116	996814.99	2827417.74	ВС
1117	996689.87	2827287.07	ВС
1118	996679.16	2827294.64	ВС
1119	996790.50	2827216.54	R136.0
1120	996668.43	2827276.49	BC
1121	996657.80	2827281.76	ВС
1122	996654.65	2827277.74	R5.0
1123	996650.58	2827277.17	ВС
1124	996665.58	2827277.50	R15.0

	NORTHING	EASTING	DESCRIPTION
1125	996666.22	2827262.51	ВС
1126	996665.20	2827285.46	R25.0
1127	996687.91	2827274.76	BC
1128	996790.50	2827216.54	R118.0
1129	996691.28	2827280.43	BC
1130	996686.99	2827282.99	R5.0
1131	996833.07	2827289.89	BC
1132	996831.19	2827333.65	BC
1133	996844.17	2827334.21	BC
1134	996843.96	2827339.21	R5.0
1135	996848.96	2827339.42	BC
1136	996848.91	2827340.58	BC
1137	996833.92	2827339.93	R15.0
1138	996827.79	2827353.62	BC
1139	996827.41	2827353.45	BC
1140	996829.48	2827348.90	R5.0
1141	996824.96	2827346.76	BC
1142	996830.51	2827335.06	BC
1143	996954.47	2827072.88	R290.0
1144	996757.11	2827285.37	BC
1145	996757.15	2827284.43	BC
1146	996830.79	2827287.59	BC
1147	996750.69	2827289.27	BC
1148	996746.78	2827293.43	BC
1149	996743.13	2827290.01	R5.0
1150	996739.64	2827293.60	BC
1151	996735.52	2827289.51	BC
1152	996745.76	2827279.94	R15.0
1153	996746.68	2827265.97	BC
1154	996746.47	2827270.96	R5.0
1155	996751.46	2827271.18	BC

		DINATE TA	T
	NORTHING	EASTING	DESCRIPTION
1156	996835.20	2827287.78	ВС
1157	996832.92	2827285.49	ВС
1158	996833.39	2827274.69	ВС
1159	996838.38	2827274.91	R5.0
1160	996838.60	2827269.91	ВС
1161	996838.93	2827269.93	BC
1162	996838.37	2827282.92	R13.0
1163	996851.36	2827283.47	BC
1164	996848.36	2827283.34	R5.0
1165	996846.15	2827288.25	BC
1166	996895.32	2827331.86	BC
1167	996895.58	2827325.87	BC
1168	996899.06	2827244.92	BC
1169	996878.27	2827244.03	ВС
1170	996876.36	2827241.94	ВС
1171	996876.58	2827236.95	ВС
1172	996877.07	2827225.52	ВС
1173	996865.24	2827225.02	ВС
1174	996862.08	2827224.88	ВС
1175	996726.70	2827219.07	ВС
1176	996726.15	2827232.06	ВС
1177	996721.15	2827231.84	R5.0
1178	996720.52	2827236.82	BC
1179	996709.91	2827231.75	BC
1180	996672.11	2827207.88	BC
1181	996667.66	2827210.15	R5.0
1182	996672.65	2827210.35	BC
1183	996672.28	2827219.69	BC
1184	996657.29	2827219.09	R15.0
1185	996656.65	2827234.08	BC
1186	996650.65	2827233.82	ВС

	COORD	INATE TA	BLE
	NORTHING	EASTING	DESCRIPTION
1187	996651.30	2827218.83	R15.0
1188	996636.31	2827218.24	ВС
1189	996636.71	2827208.26	ВС
1190	996698.29	2827206.96	SAW CUT
1191	996675.67	2827206.06	SAW CUT
1192	996636.75	2827203.51	SAW CUT
1193	996631.68	2827198.02	SAW CUT
1194	997120.31	2827465.82	STRIPE
1195	997189.90	2827477.46	STRIPE
1196	997127.70	2827474.26	SAW CUT
1197	997194.93	2827490.62	SAW CUT
1198	997207.30	2827504.81	SAW CUT
1199	997208.91	2827519.26	SAW CUT
1200	996721.15	2827221.85	R10
1201	996894.68	2827342.30	ВС
1202	996654.76	2827208.99	LP
1203	996692.39	2827310.85	LP
1204	996782.03	2827382.04	LP
1205	996844.06	2827478.23	LP
1206	996933.06	2827485.68	LP
1207	997134.91	2827491.19	LP
1208	997032.39	2827521.79	LP
1209	997137.89	2827239.03	BC
1210	997133.45	2827335.85	SAWCUT
1211	997137.31	2827241.00	SAWCUT
1212	996795.54	2827214.02	LP
1213	996905.39	2827283.77	LP
1214	996859.42	2827224.77	ВС

_	LEGEND:
<u> </u>	SECTION CORNER CONTROL POINT
<u>.</u>	BENCHMARK
0	MONUMENT FOUND ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED
(2) _{OU}	OVERHEAD UTILITY LINE (# OF LINES)
ф	LIGHT POLE
-0-	UTILITY POLE
E	ELECTRIC METER
AC	AIR CONDITIONER
© W	GAS METER WATER METER
⊗	WATER LINE GATE VALVE
~	FIRE HYDRANT
ws [○]	WATER SPIGOT
sv ^o	SPRINKLER VALVE
ввО	BREAKER BOX
EO	ELECTRIC OUTLET
DE	DOOR ELEVATION (AT THRESHOLD)
FF ⇔	FINISH FLOOR ELEVATION BUSH
-	BASKETBALL GOAL
	SPLICE BOX
UV□	UTILITY VAULT
\$	SANITARY SEWER MANHOLE
0	STORM SEWER MANHOLE
co ^O	SANITARY SEWER CLEAN OUT
DS ^O	DOWN SPOUT
GIO	GRATE INLET
D	
	STREET/TRAFFIC SIGN TRAFFIC SIGNAL LIGHT POLE
ž.	HANDICAP SYMBOL
5	PARKING STALL COUNT
	HANDICAP SIGN
£ 3	DECIDUOUS TREE
*	CONIFEROUS TREE
\sim	TREE LINE
•	TURN LANE DIRECTION
<u> </u>	SECTION CORNER MONUMENT FOUND (ORIGIN UNCERTA UNLESS OTHERWISE NOTED)
•	1/2"x24" REBAR W/214F CAP
	SET (UNLESS NOTED OTHERWISE) MAGNAIL W/ WASHER SET (UNLESS NOTED OTHERWISE)
*	CHISELED PLUS SET (UNLESS
(11)	NOTED OTHERWISE)
(M) (C)	MEASURED VALUE CALCULATED
(D)	DEED VALUE
(P) (CP)	PLAT VALUE CALCULATED PLAT VALUE
	CALCULATED MEASURED VALUE
` '	RECORD VALUE
SS/E D/E	SANITARY SEWER EASEMENT STORM DRAINAGE EASEMENT
	ASPHALT SURFACE COURSE
	FULL DEPTH ASPHALT PAVEMENT (04
	CONCRETE CURB AND GUTTER
	CONCRETE CURB AND GUTTER WITH REVERSE FLOW
	PAINTED CURB FOR FIRE LANE (13)
L R	LANDING RAMP
Т	TRANSITION
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	CONCRETE PAVEMENT (042) W/JOINT
	TYPE 3
JOINT (TYP)	JOINT (TYP) CONCRETE SIDEWALK (055+005) W/J
	LIMITS OF DISTURBANCE
(1000)	COORDINATE POINT



(1000) COORDINATE POINT

DAVID D. WOOD ENGINEER MO # 2011037427 NT FOUND (ORIGIN UNCERTAIN 14700 WE LENEXA, PH. (TH ASPHALT PAVEMENT (040) CURB FOR FIRE LANE $\langle 13 \rangle$ **PARKING** PAVEMENT (042) W/JOINTING SIDEWALK (055+005) W/JOINTING

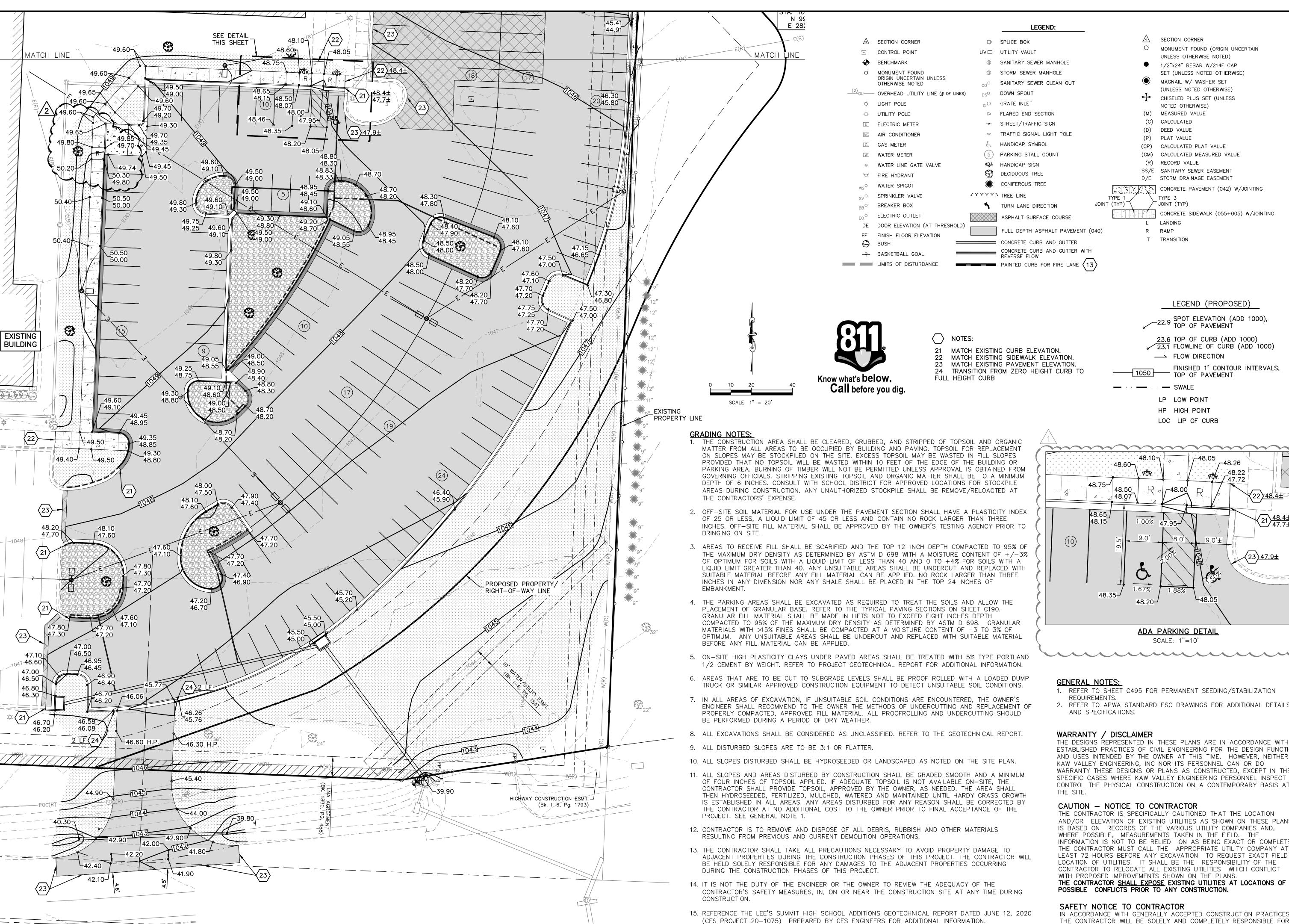
ENGINEERING

LEE'S SUMMIT HS - EAST PARK
400 SE BLUE PARKWAY
LE'S SUMMIT, MISSOURI 64063
CONSTRUCTION DOCUMENTS PHASE I
DIMENSION PLAN PROJ. NO. C23_1880

DESIGNER DRAWN BY

DDW N.IN C200

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NUMBER

DAVID D. WOOD

ENGINEER

MO # 2011037427

FINISHED 1' CONTOUR INTERVALS,

1. REFER TO SHEET C495 FOR PERMANENT SEEDING/STABILIZATION

2. REFER TO APWA STANDARD ESC DRAWINGS FOR ADDITIONAL DETAILS

ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS

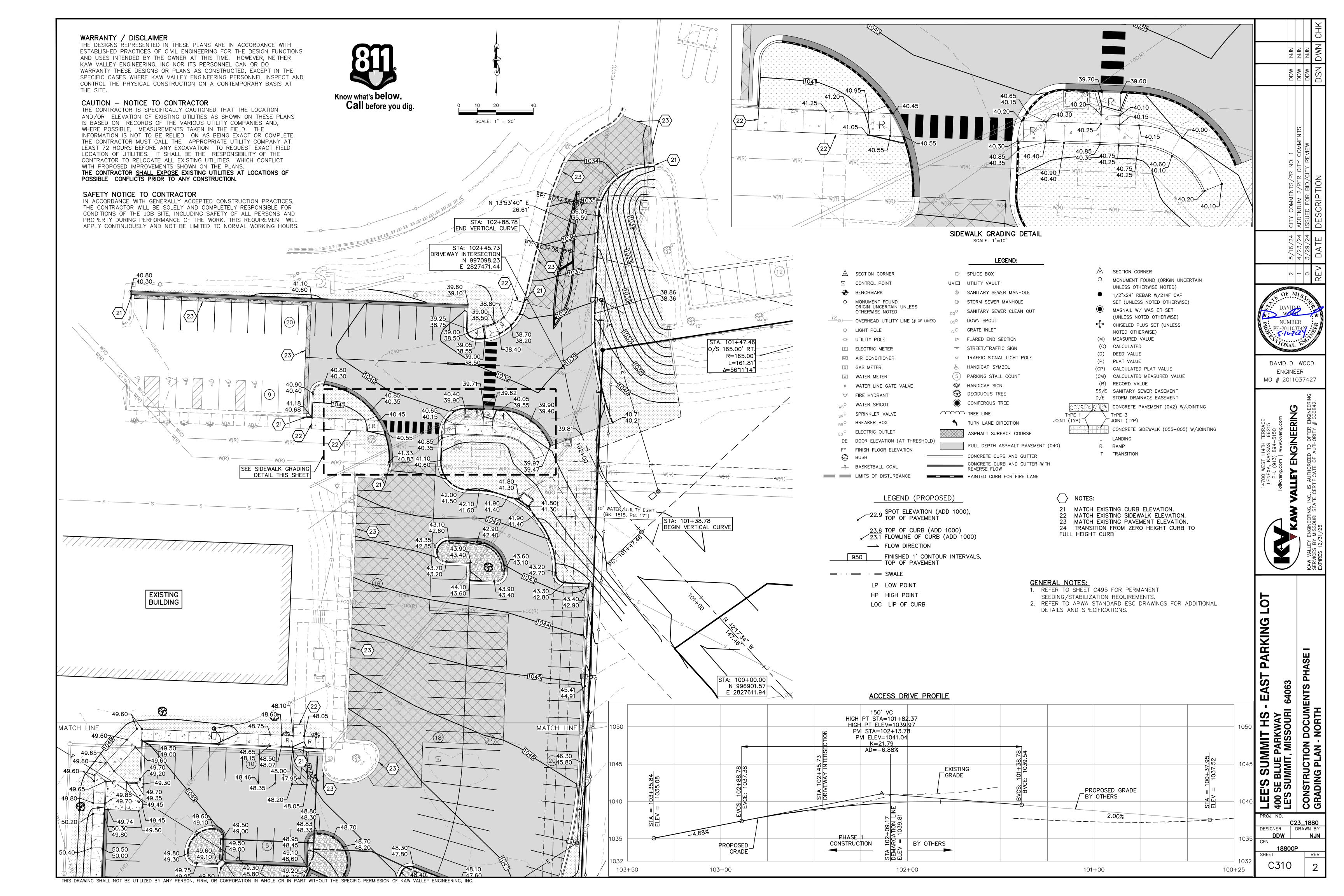
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DESIGNER DRAWN BY DDW SHEET

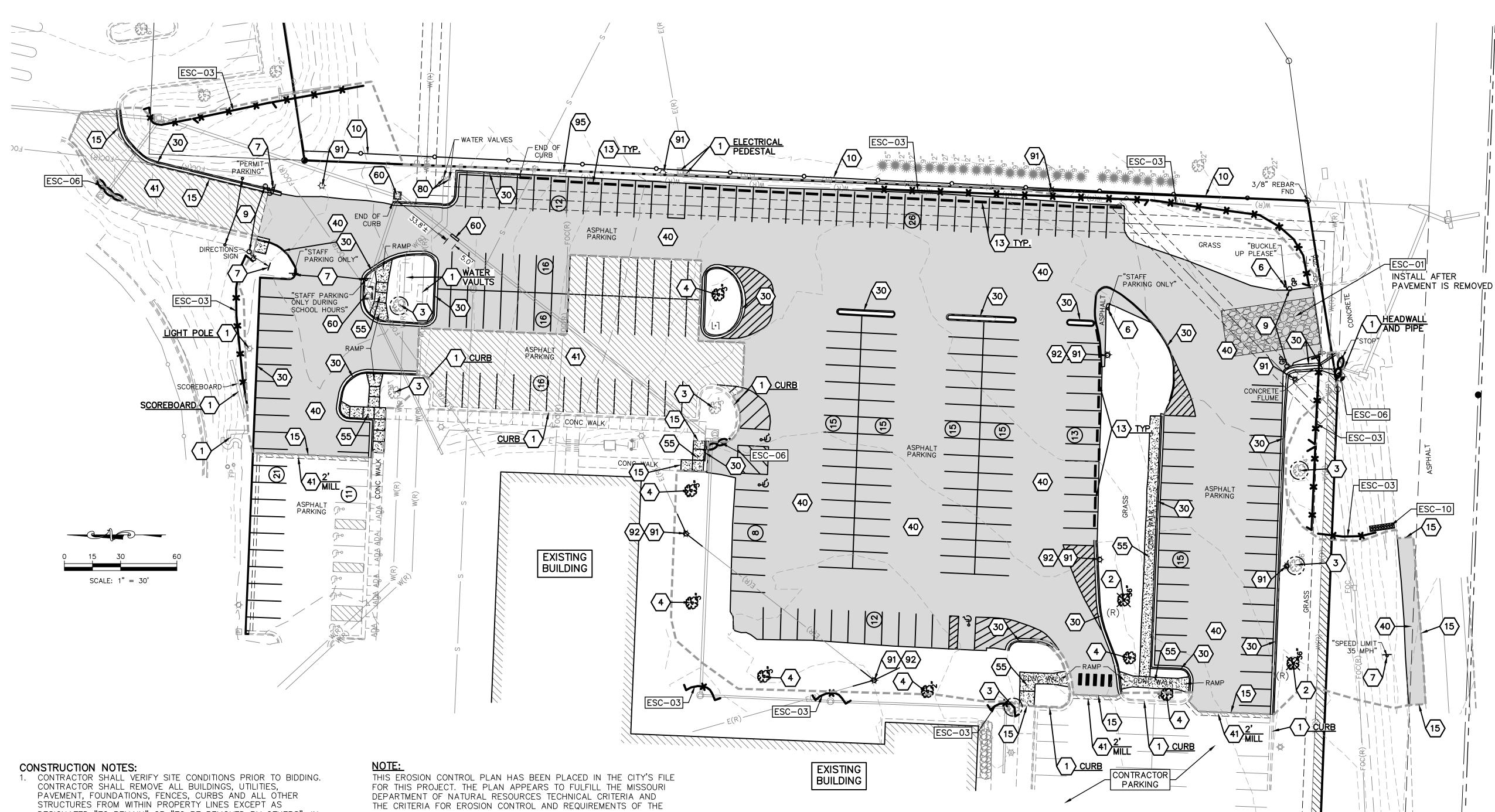
E'S SUMMIT SE BLUE PARKY SUMMIT, MISSO

AR

DOCUM SOUTH

TION LAN-





DESIGNATED "TO REMAIN" OR "TO BE REMOVED BY OTHERS", IN ACCORDANCE WITH THE SPECIFICATIONS AND THE CITY OF LEE'S SUMMIT AND STATE REGULATIONS. SITE CONDITIONS SHOWN WERE AS OF FEBRUARY 19, 2024.

- 2. ALL UTILITY PIPE LINES TO BE ABANDONED SHALL BE PLUGGED PER CITY AND STATE REGULATIONS.
- 3. DRIVES, PAVING AND OTHER STRUCTURES ON STREET OR HIGHWAY RIGHT-OF-WAY SHALL BE REMOVED AS NECESSARY TO CONSTRUCT IMPROVEMENTS SHOWN ON THESE PLANS. REMOVAL AND DISPOSAL SHALL BE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- 4. ALL PAVING WITHIN PROPERTY TO BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL
- 5. COORDINATE ELECTRICAL DEMO WITH E SERIES SHEETS.

WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

SAFETY NOTICE TO CONTRACTOR

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CITY. I UNDERSTAND THAT ADDITIONAL EROSION CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN EROSION PROBLEMS ARISE OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

1. REFER TO SHEET C495 FOR PERMANENT SEEDING/STABILIZATION REQUIREMENTS.

2. REFER TO APWA STANDARD ESC DRAWINGS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.

<u>DESCRIPTION OF WORK - PRE CONSTRUCTION AND PHASE I:</u>

- OBTAIN REVIEW COMPLIANCE AND APPLICABLE PERMITS. HOLD PRE—CONSTRUCTION CONFERENCE.
- INSTALL PERIMETER EROSION CONTROL MEASURES, INLET PROTECTION DOWNSTREAM OF DEMOLITION AREAS AND TREE PROTECTION FENCING WITHIN CLEARING LIMITS AS APPLICABLE
- SAWCUT AND REMOVE PAVEMENT, FLATWORK AND CURBING AT PERIMETER TIE-INS. COORDINATE WORK WITH LEE'S SUMMIT SCHOOL DISTRICT (LSSD). MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC
- ACCESS TO CAMPUS AS DIRECTED BY LSSD. PROVIDE STABILIZED CONSTRUCTION INTO WORK AREA AS REQUIRED.

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

DEMOLITION

REMOVE TREES/BUSHES/LANDSCAPING/SITE FURNITURE. (COORDINATE WITH PROJECT SITE PLAN) TREES TO REMAIN. PROVIDE TREE PROTECTION FENCE AT DRIPLINE. A MINIMUM RADIUS OF 10' FROM

3 TREE SHALL BE PROVIDED ANYWHERE WHERE PORTIONS OF DRIPLINE ARE NOT FENCED OFF, A LAYER OF MULCH (6" MINIMUM) SHALL BE PROVIDED TO PROTECT ROOT SYSTEM FROM DAMAGE.

- 4 RELOCATE SMALL CALIPER TREES. SEE SHEET C100.
- 6 SIGN TO BE REMOVED
- 7 SIGN TO BE RELOCATED
- 9 BOLLARD/SWING GATE TO BE REMOVED. BACKFILL AND COMPACT FOOTINGS.
- 10 REMOVE CHAINLINK FENCE AND POST. BACKFILL AND COMPACT FOOTINGS.
- 13 CONCRETE WHEEL STOP TO BE REMOVED.
- SAW CUT LINE (FOR CONCRETE SAW CUT AT NEAREST CONTROL JOINT. FOR ASPHALT SAW CUT MINIMUM OF 6" FROM NEW CURB LINE). SEE SHEET C100 AND C200 FOR LIMITS.
- CONTRACTOR TO REMOVE CONCRETE CURBS TO CONSTRUCT IMPROVEMENTS. SEE SHEET C100 AND C200 FOR LIMITS.
- 40 CONTRACTOR TO REMOVE ASPHALT PAVING AS REQUIRED TO CONSTRUCT IMPROVEMENTS. CONTRACTOR TO MILL ASPHALT SURFACE, MINIMUM 2' OUTSIDE ASPHALT REMOVAL. REFER TO C100
- AND C200 SHEETS FOR LIMITS. REFER TO SECTIONS A-A AND B-B ON SHEET C190.
- 55 CONTRACTOR TO REMOVE CONCRETE PAVING AND WALKS.
- CONTRACTOR TO MODIFY, REMOVE AND/OR REROUTE STORM SEWER OR STRUCTURE. REFER TO C600 SHEETS FOR ADDITIONAL INFORMATION.
- 80 CONTRACTOR TO RESET EXISTING WATER VALVES TO GRADE. SEE SHEET C310.
- 91 REMOVE SITE LIGHTING REFER TO SITE ELECTRICAL PLAN. COORDINATE WITH EVERGY AS APPLICABLE.
- 92 REMOVE FIXTURE AND SALVAGE FOR REINSTALL.
- 95 CONTRACTOR TO MODIFY EXISTING FIBER OPTICS VAULT TO MEET NEW GRADE. SEE SHEET C310.

METROPOLITAN CHAPTER ADOPTED DIVISION III C490 AND C495.

ESC-01 CONSTRUCTION ENTRANCE ESC-03 SEDIMENTATION FENCE ESC-06 CURB INLET PROTECTION ESC-10 ROCK DITCH CHECKS

FOR THE FOLLOWING DETAILS REFER TO THE KC APWA STANDARD DRAWINGS FOR EROSION AND SEDIMENT CONTROL (2017 VERSION) ON SHEETS

——G(R)—— UNDERGROUND GAS PER RECORD ——S(R)—— SANITARY SEWER LINE PER RECORD ---D(R)--- STORM SEWER LINE PER RECORD

AREA TO BE MILLED

EROSION & PROPOSED IMPROVEMENTS LEGEND:

PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS) GRAVEL FILTER BAGS AND INLET PROTECTION (ESC-06 & ESC-07)

OTPF FENCE (OTPF) SEDIMENTATION FENCE (ESC-03)

LIMITS OF DISTURBANCE INDICATES TREE/SHRUB TO BE REMOVED

CONSTRUCTION ENTRANCE AND STAGING (ESC-01)

ROCK DITCH CHECK (ESC-10)



LEGEND:

→ STREET/TRAFFIC SIGN

ADA HANDICAP SIGN HRMP HANDICAP RAMP

WHEEL STOP

→ PAINTED DIRECTIONAL ARROW TURN LANE DIRECTION HANDICAP SYMBOL PARKING STALL COUNT

-FOC- UNDERGROUND FIBER OPTIC CABLE

SANITARY SEWER CLEAN OUT

—E(R)—— UNDERGROUND ELECTRIC PER RECORD

WALL MOUNTED ELECTRICAL OUTLET

TELEPHONE PEDESTAL S SANITARY SEWER MANHOLE

AREA INLET CIO CURB INLET

DSO DOWN SPOUT FLOOR DRAIN ----s--- SANITARY SEWER LINE

------ STORM SEWER LINE

A/C AIR CONDITIONER

——G—— UNDERGROUND GAS G GAS METER GAS VALVE GAS RISER GAS LINE SIGN

W WATER METER

♥ FIRE HYDRANT

WATER MANHOLE

SVO SPRINKLER VALVE

☑ CANOPY SUPPORT

DECIDUOUS TREE CONIFEROUS TREE

T/E TRASH ENCLOSURE L/S LANDSCAPING AREA

VCP VITRIFIED CLAY PIPE

DIP DUCTILE IRON PIPE

——E—— UNDERGROUND ELECTRIC

HDPE HIGH DENSITY POLYETHYLENE

OVERHEAD UTILITY LINE (# OF LINES)

■ UTILITY POLE W/ TRANSFORMER

UNDERGROUND ELECTRIC PEDESTAL

ASPHALT PAVING TO BE REMOVED

CONCRETE PAVING/SIDEWALKS TO BE REMOVED

WALL MOUNTED LIGHT

WALL MOUNTED CAMERA

UTILITY POLE W/ LIGHT

----W(R)---- WATER LINE PER RECORD

LW LOWEST WIRE HEIGHT

E ELECTRIC METER

■ SPEAKER BOX

BBC BREAKER BOX

---- CONCRETE JOINT/CUT LINE

MBO MAIL BOX

🕰 BUSH

TREE LINE FP FLAG POLE

CONC CONCRETE

P PULL BOX

□ LIGHT POLE

← GUY ANCHOR

□ UTILITY POLE

STORM SEWER MANHOLE

CMP CORRUGATED METAL PIPE RCP REINFORCED CONCRETE PIPE

~ -950 - EXISTING GRADE 5' CONTOUR -- 939 -- EXISTING GRADE 1' CONTOUR

WATER LINE GATE VALVE

SPRINKLER CONTROL BOX

SIAMESE FIRE CONNECTOR

—FOC(R)— UNDERGROUND FIBER OPTIC (FROM RECORDS)

BENCHMARK GPO GATE POST ──── CHAIN LINK FENCE ----- WOOD FENCE BOLLARD

> DAVID D. WOOD ENGINEER

MO # 2011037427

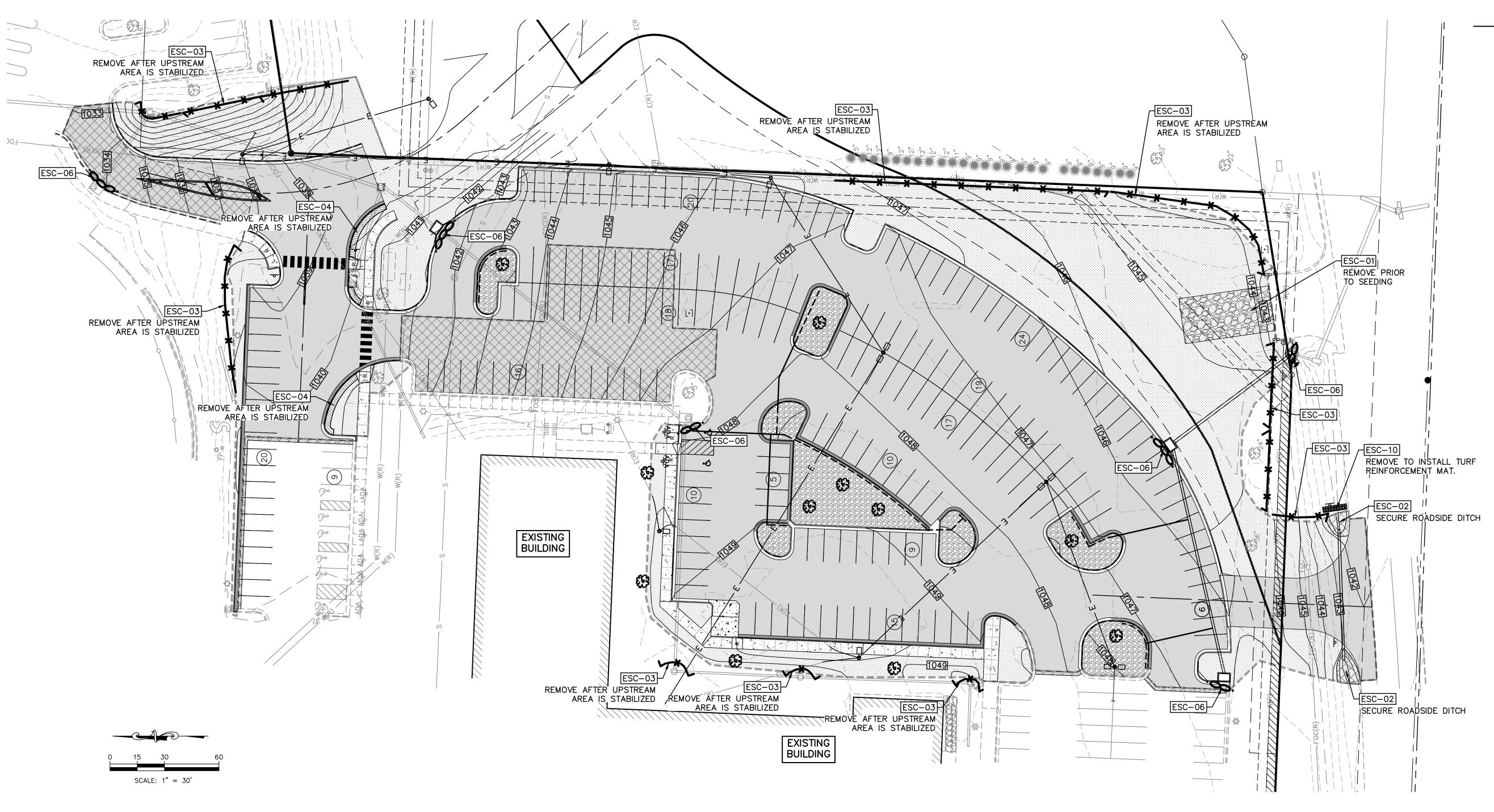
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FINAL ACCEPTANCE:

ALL DISTURBED AREAS SHALL BE PREPPED FOR SEEDING OR SODDING IN ACCORDANCE WITH CITY ADOPTED APWA CRITERIA. THE SITE DISTURBANCE PERMIT SHALL BE MAINTAINED IN AN OPEN STATUS UNTIL FINAL ACCEPTANCE PER CITY ADOPTED APWA SECTION 2400.6.

WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

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THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

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THIS EROSION CONTROL PLAN HAS BEEN PLACED IN THE CITY'S FILE FOR THIS PROJECT. THE PLAN APPEARS TO FULFILL THE MISSOURI DEPARTMENT OF NATURAL RESOURCES TECHNICAL CRITERIA AND THE CRITERIA FOR EROSION CONTROL AND REQUIREMENTS OF THE CITY. I UNDERSTAND THAT ADDITIONAL EROSION CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN EROSION PROBLEMS ARISE OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

GENERAL NOTES:

- 1. REFER TO SHEET C495 FOR PERMANENT SEEDING/STABILIZATION
- 2. REFER TO APWA STANDARD ESC DRAWINGS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.

<u>DESCRIPTION OF WORK - PHASE II AND POST CONSTRUCTION:</u>

- ROUGH GRADE SITE TO PROPOSED SUBGRADE. • INSTALL OR RELOCATE UTILITIES: STORM, CONDUITS FOR SITE
- LIGHTING, TELECOM.
- INSTALL EROSION CONTROL MEASURES AROUND STORM SEWERS AND DIVERT RUNOFF TO STORM STRUCTURES.
- PLACE AGGREGATE BASE FOR PARKING AREAS.
- INSTALL CURB FOR PARKING AREAS.

CONTROL MEASURES ARE REMOVED.

- INSTALL PAVING BASE COURSE. INSTALL ADDITIONAL EROSION CONTROL MEASURES AT TOES OF SLOPE
- ADJACENT TO CURB LINE AS APPLICABLE. COMPLETE FINAL GRADING AND SEED/SOD AND LANDSCAPE PERIMETER AREAS (ESTABLISH VEGETATION).
- INSTALL SURFACE COURSE ON PARKING LOT, WALKS AND FLATWORK. COMPLETE FINAL GRADING AND SEED, SOD OR LANDSCAPE WITHIN
- PROJECT LIMITS AS APPLICABLE. FINAL SITE CLEANUP.
- MAINTAIN EROSION CONTROL MEASURES UNTIL SITE IS STABILIZED. • INSPECT AND RESEED REMAINING DISTURBED AREAS, WASHOUTS, ETC. REMOVE SEDIMENT BUILDUP, RESEED AND STABILIZE AS EROSION

- FOR THE FOLLOWING DETAILS REFER TO THE KC METROPOLITAN CHAPTER ADOPTED DIVISION III APWA STANDARD DRAWINGS FOR EROSION AND SEDIMENT CONTROL (2017 VERSION) ON SHEETS C490 AND C495.
- ESC-01 CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT ESC-02 EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MAT
- ESC-03 SEDIMENTATION FENCE
- ESC-06 CURB INLET PROTECTION ESC-10 ROCK DITCH CHECKS

GRAVEL FILTER BAGS AND INLET PROTECTION (ESC-06 & ESC-07)

OTPF FENCE (OTPF) SEDIMENTATION FENCE (ESC-03)

LIMITS OF DISTURBANCE

INDICATES TREE/SHRUB TO BE REMOVED

WATTLE/BIODEGRADABLE LOG (ESC-04)

CONCRETE WASH AREA (ESC-01)

LIMITS OF AREA TO BE PAVED -REFERENCE GRADING PLAN FOR CONSTRUCTION SPECIFICATIONS

EROSION & PROPOSED IMPROVEMENTS LEGEND:

1218 PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)

CONSTRUCTION ENTRANCE AND STAGING (ESC-01)

ROCK DITCH CHECK (ESC-10)

EROSION CONTROL BLANKET (ESC-02)



DAVID D. WOOD

LEGEND:

→ STREET/TRAFFIC SIGN

→ PAINTED DIRECTIONAL ARROW

---FOC--- UNDERGROUND FIBER OPTIC CABLE

CO SANITARY SEWER CLEAN OUT

CMP CORRUGATED METAL PIPE

RCP REINFORCED CONCRETE PIPE

—E(R)— UNDERGROUND ELECTRIC PER RECORD

WALL MOUNTED ELECTRICAL OUTLET

TELEPHONE PEDESTAL S SANITARY SEWER MANHOLE STORM SEWER MANHOLE

-FOC(R)- UNDERGROUND FIBER OPTIC (FROM RECORDS)

TURN LANE DIRECTION

HANDICAP SYMBOL 3) PARKING STALL COUNT

ADA HANDICAP SIGN HRMP HANDICAP RAMP

₩HEEL STOP

ALO AREA INLET CIO CURB INLET

DSO DOWN SPOUT

FLOOR DRAIN > FLARED END SECTION ----s--- SANITARY SEWER LINE

AIR CONDITIONER

——G—— UNDERGROUND GAS G GAS METER

> GAS RISER GAS LINE SIGN

~ -950 - EXISTING GRADE 5' CONTOUR -- 939 -- EXISTING GRADE 1' CONTOUR

⊗ WATER LINE GATE VALVE

SPRINKLER CONTROL BOX

SIAMESE FIRE CONNECTOR

GAS VALVE

W WATER METER

♥ FIRE HYDRANT

WATER MANHOLE

SPRINKLER VALVE

☑ CANOPY SUPPORT

DECIDUOUS TREE CONIFEROUS TREE

T/E TRASH ENCLOSURE L/S LANDSCAPING AREA

VCP VITRIFIED CLAY PIPE DIP DUCTILE IRON PIPE

HDPE HIGH DENSITY POLYETHYLENE

OVERHEAD UTILITY LINE (# OF LINES)

UTILITY POLE W/ TRANSFORMER

UNDERGROUND ELECTRIC PEDESTAL

——G(R)—— UNDERGROUND GAS PER RECORD

——D(R)—— STORM SEWER LINE PER RECORD

——S(R)—— SANITARY SEWER LINE PER RECORD

WALL MOUNTED LIGHT

C WALL MOUNTED CAMERA

UTILITY POLE W/ LIGHT

----W(R)---- WATER LINE PER RECORD

LW LOWEST WIRE HEIGHT E ELECTRIC METER

■ SPEAKER BOX

BBC BREAKER BOX

----E--- UNDERGROUND ELECTRIC

---- CONCRETE JOINT/CUT LINE

MBO MAIL BOX

🟳 BUSH

TREE LINE FP FLAG POLE

CONC CONCRETE

P PULL BOX

 □ LIGHT POLE □ UTILITY POLE

← GUY ANCHOR

BENCHMARK GPO GATE POST

——→ CHAIN LINK FENCE

----- WOOD FENCE BOLLARD

> ENGINEER MO # 2011037427

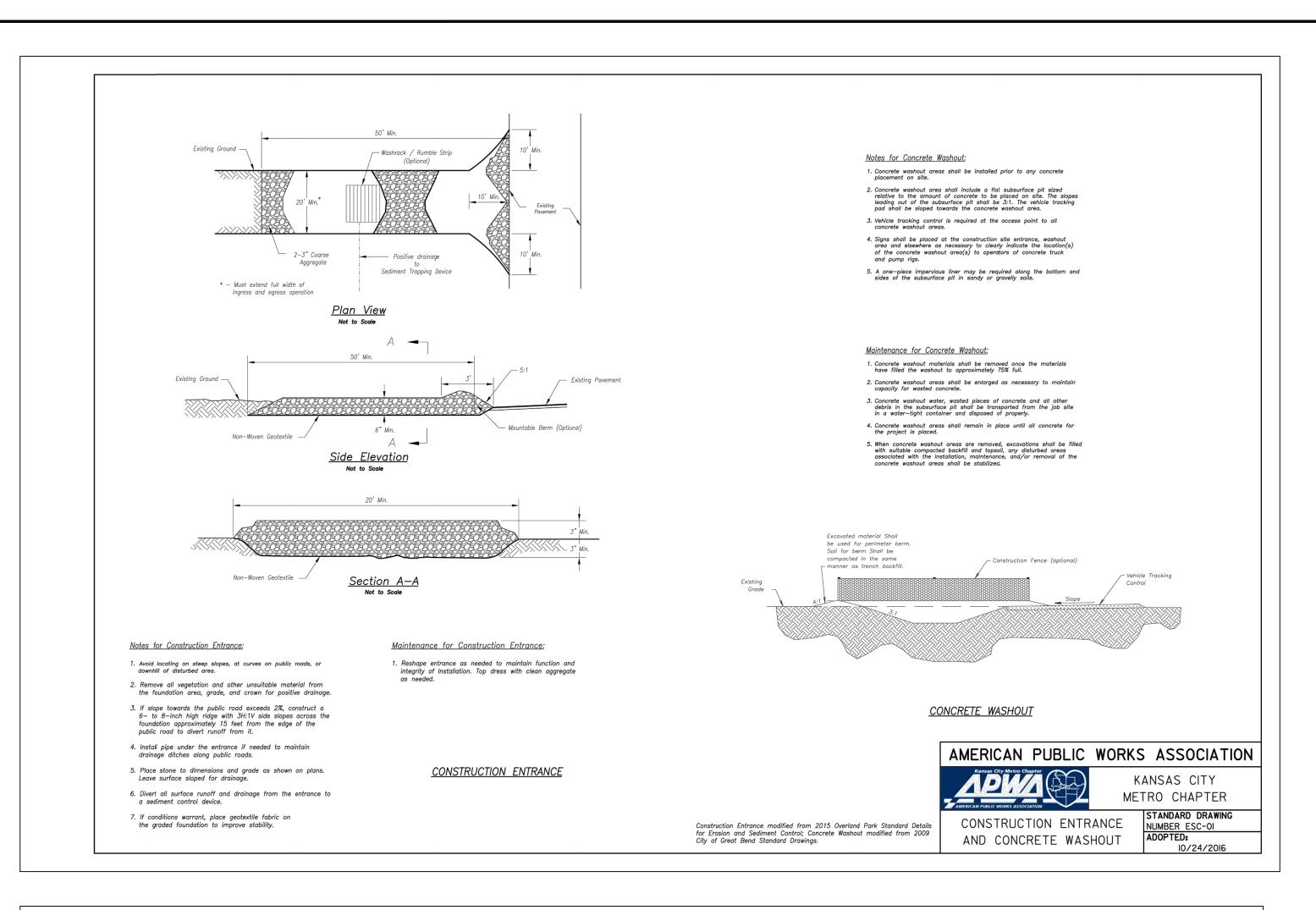
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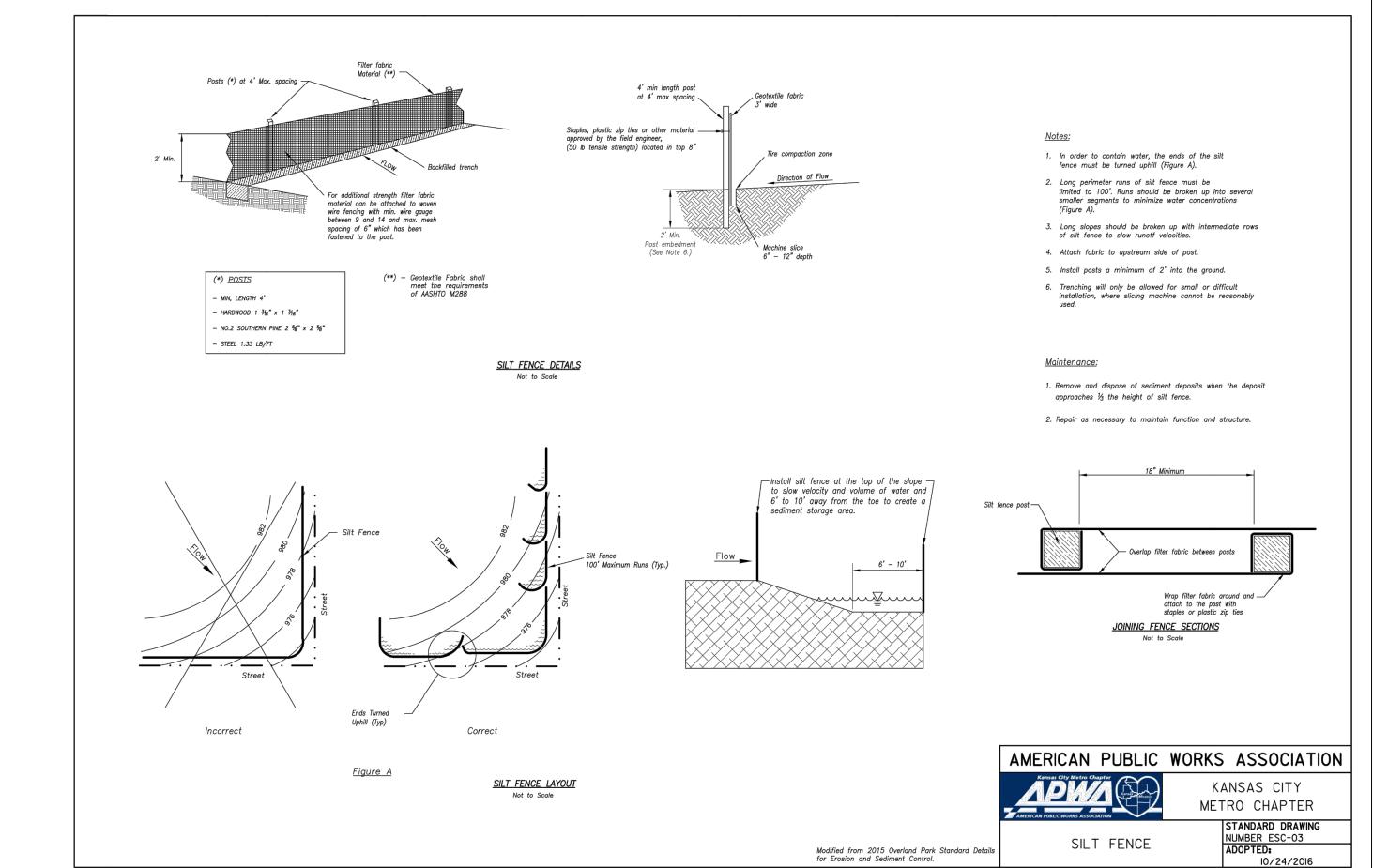
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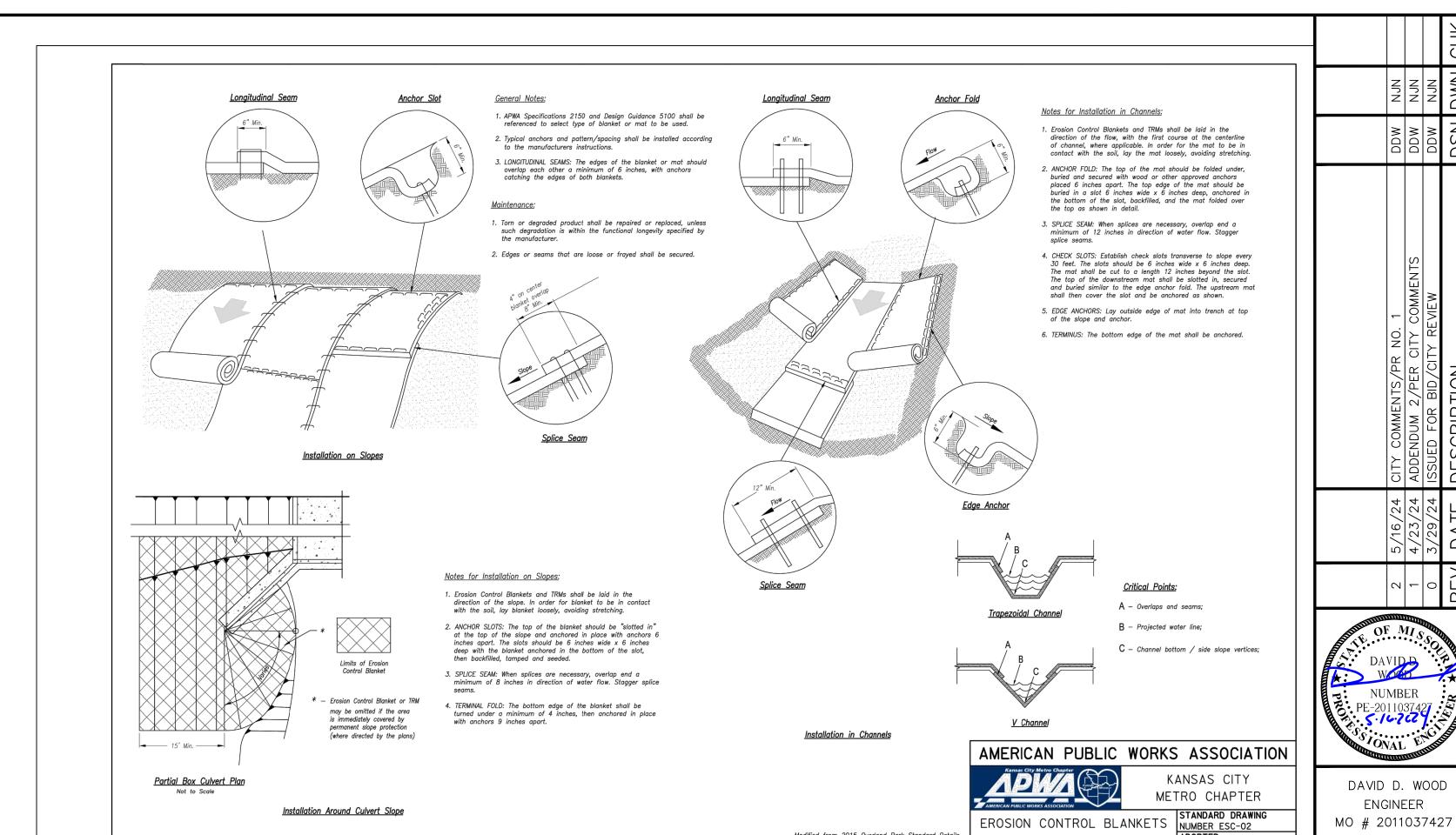
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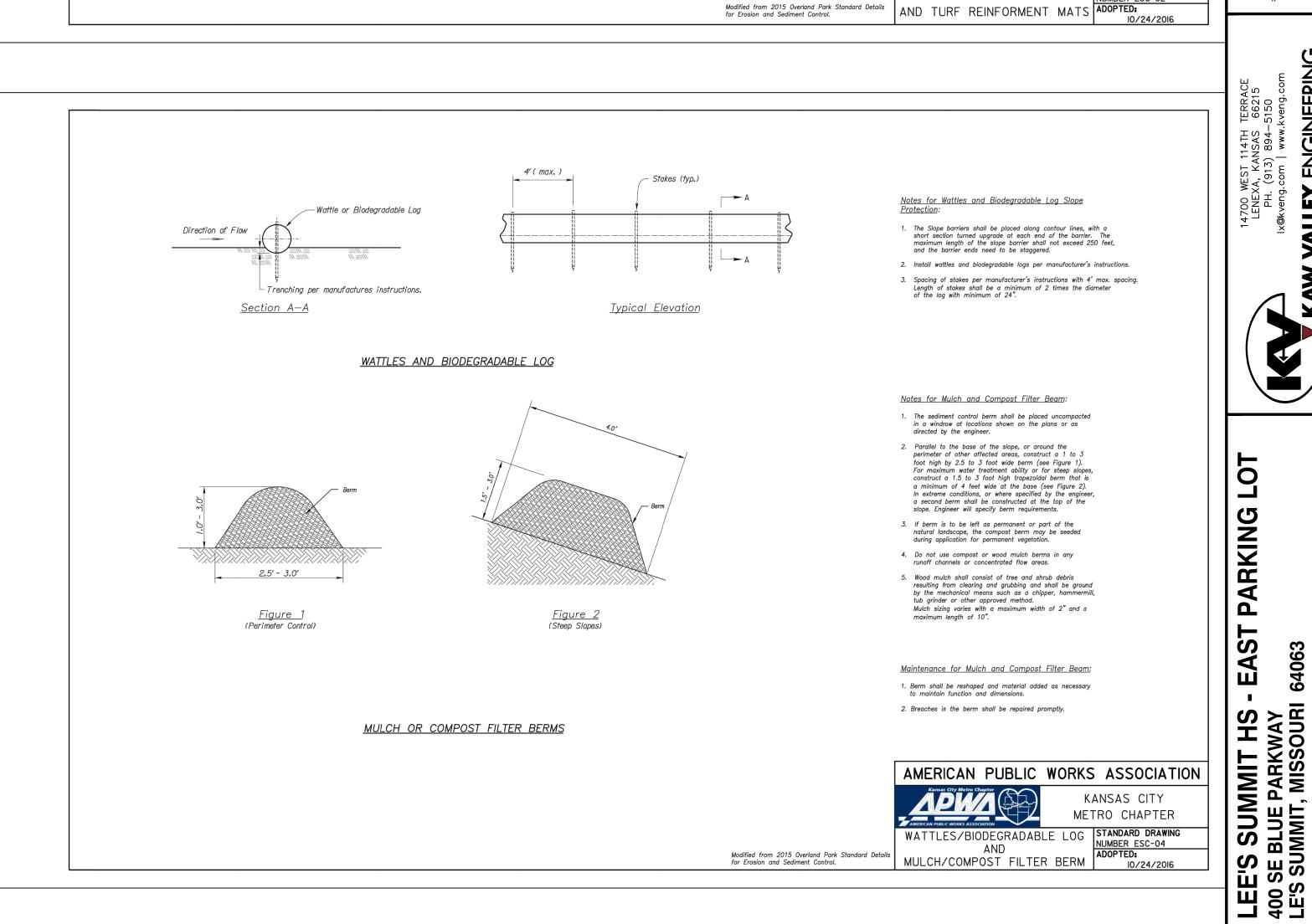
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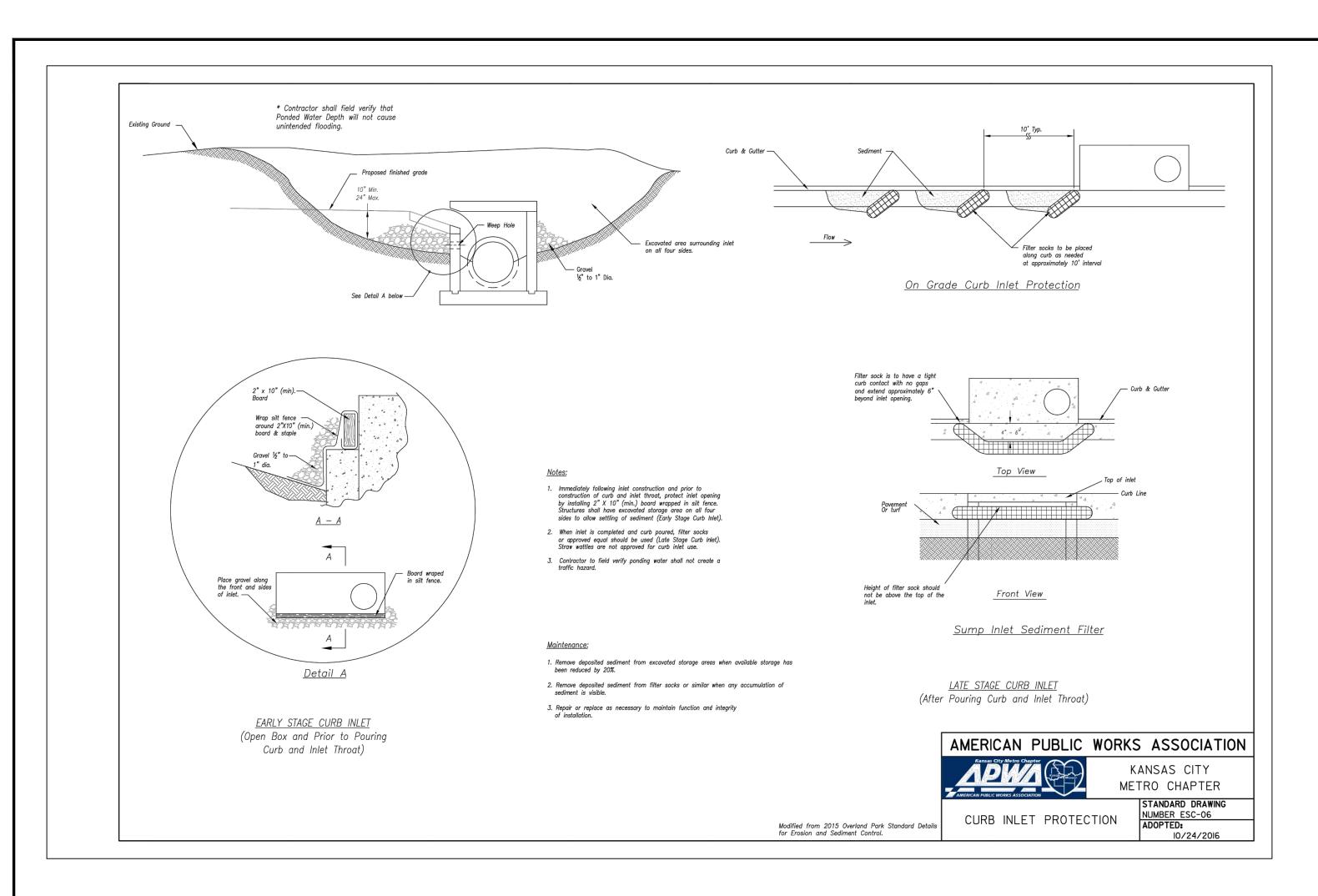
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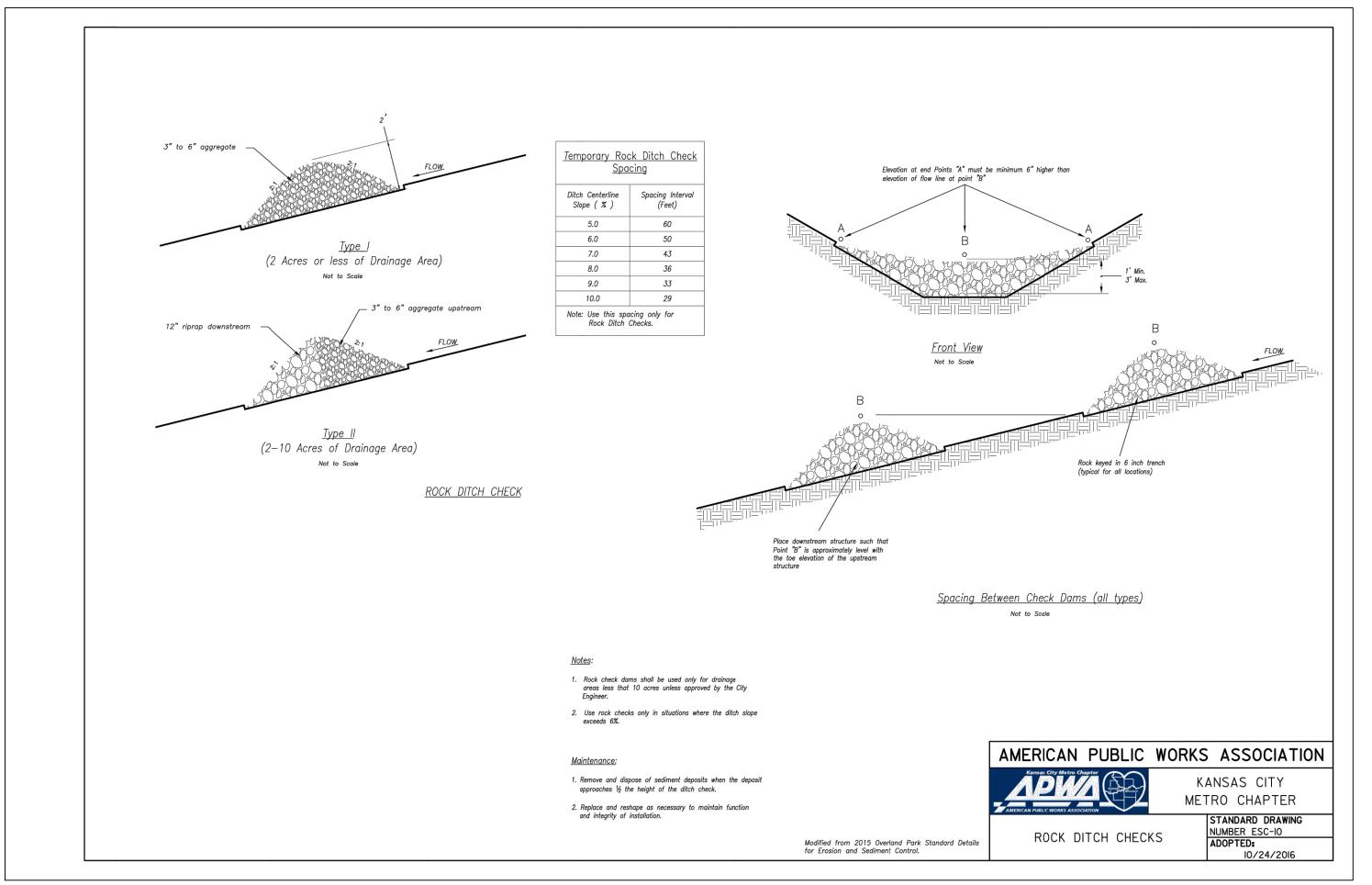
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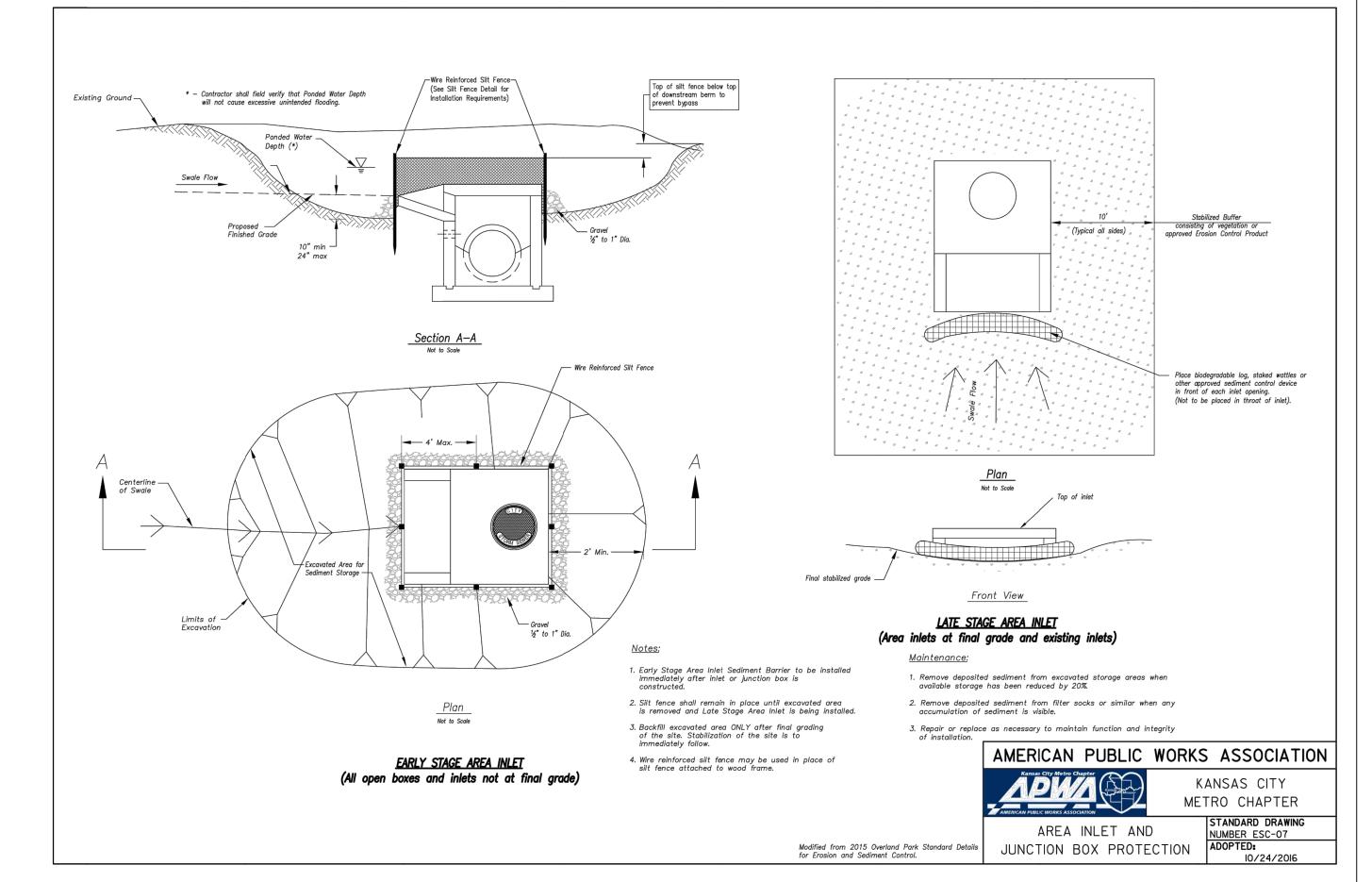
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DESIGNER

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DISTURBED AREAS ARE TO BE SEEDED AS NOTED. APPLICATION OF SEED SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. SEED MIX TO BE USED SHALL BE IN ACCORDANCE WITH APWA SPECIFICATION 2401.2 A1, SEEDING MIX # 1 (TURF AREAS) WITH THE FOLLOWING EXCEPTIONS. BLEND SHALL BE 90% FESCUE (THREEPART) AND 10% KENTUCKY BLUEGRASS.

PREPARATION OF THE SEED BED

UNLESS NOTED OTHERWISE ON THE LANDSCAPE PLANS AND SPECIFICATIONS ALL DISTURBED AREAS SHALL BE PREPPED FOR SEEDING AND SODDING IN ACCORDANCE WITH KANSAS CITY METROPOLITAN CHAPTER OF APWA SPECIFICATIONS SECTION 2406. THE AREA TO BE SEEDED SHALL BE THOROUGHLY TILLED TO A DEPTH OF AT LEAST THREE (3) INCHES BY DISCING, HARROWING OR OTHER APPROVED METHODS UNTIL THE SOIL IS WELL PULVERIZED. AFTER COMPLETION OF THE TILLING OPERATION, THE SURFACE SHALL BE CLEARED OF ALL STONES, STUMPS, OR OTHER OBJECTS LARGER THAN 1-1/2 INCHES IN DIAMETER, AND OF ROOTS, WIRE, GRADE STAKES, AND OTHER OBJECTS THAT MIGHT HINDER MAINTENANCE OPERATIONS.

REFERENCE APWA SPECIFICATIONS SECTION 2401.3 FOR ADDITIONAL INFORMATION.

PLACEMENT OF SEED

SEEDING SHALL BE ACCOMPLISHED BY HYDROSEEDING. REFERENCE APWA SECTION 2404. CONSTRUCTION SHALL COMPLY WITH SECTION 2404.3.

CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE, PROTECTION AND REPAIR OF TEMPORARY AND PERMANENT SEED AREAS. COORDINATE PLACEMENT OF INTERMEDIATE EROSION CONTROL MEASURES AS REQUIRED TO REDUCE CONCENTRATED FLOWS FROM RUNOFF.

REFERENCE APWA SPECIFICATIONS SECTION 2401.3 FOR ADDITIONAL INFORMATION RELATED TO PREPERATION OF SEEC BED FERTILIZATION AND MAINTENANCE PERIOD.

FINAL ACCEPTANCE

THE MDNR SITE DISTURBANCE PERMIT SHALL BE MAINTAINED IN AN "OPEN" STATUS UNTIL FINAL ACCEPTANCE IS PROVIDED BY THE OWNER IN ACCORDANCE WITH APWA SPECIFICATION SECTION 2400.6.

SEDIMENTATION AND EROSION CONTROL MEASURES: TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL INCLUDE AS A MINIMUM, BUT NOT BE LIMITED TO:

1. TEMPORARY SEDIMENT FENCE- SILT FENCE WILL BE INSTALLED AS SHOWN ON THE DRAWING. THIS WILL SLOW

RUNOFF VELOCITIES AND MINIMIZE EROSION OF THE SLOPES SHOWN ON THE PLANS.

2. TEMPORARY INLET PROTECTION.

PERMANENT SEDIMENTATION AND EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO:

1. STABILIZATION OF PIPE INLETS AND OUTLETS WHERE INDICATED.

2. HYDROSEEDING OR LANDSCAPING OF ALL DISTURBED AREAS.

PROPERTY LINE IS LIMIT OF DISTURBANCE EXCEPT AS SHOWN. 2. ALL DISTURBED AREAS SHALL BE STABILIZED WITH VEGETATION WITHIN 14 DAYS OF COMPLETION OF WORK. AS WORK

PROGRESSES AROUND SITE, SURROUNDING AREAS SHALL BE

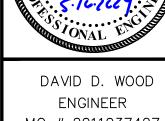
TEMPORARILY SEEDED.

3. EROSION CONTROLS SHALL BE INSTALLED AND MAINTAINED BY CONTRACTOR.

4. TEMPORARY SEDIMENT FENCE OR WATTLES TO REMAIN UNTIL ADEQUATE VEGETATION IS ESTABLISHED.

5. MUD AND DEBRIS SHALL BE CLEANED UP AT THE CONCLUSION OF EACH WORKING DAY, OR AFTER EACH RAINFALL IF SILT IS PRESENT.

6. INSPECTION, MAINTENANCE AND REPAIR OF EROSION CONTROL DEVICES SHALL BE ONGOING THROUGHOUT THE LIFE OF CONSTRUCTION TO KEEP THE DEVICES IN OPERABLE CONDITION AT ALL TIMES. ADDITIONAL MEASURES SHALL BE INSTALLED AS REQUIRED BY ACTUAL FIELD CONDITIONS AND/OR OWNER'S INSPECTION AGENCY.



NUMBER

MO # 2011037427

ENGINEERING

ARKIN 64063

IENTS AILS DOCUM! STRUCTION D

DESIGNER DRAWN E

1880DET SHEET

l																																		
				Oı	erland Flov	v							Syst	em Flow	1		Node									Pipe Desig	gn							
KVE	Design Storm (years)	Structure	Downstream Structure	Pipe	Tributary Area, A (ac)	Impervious Area (ac)	Runoff Coefficient C	Antecedent Precipitation (K) A x C (ac)	Time of Concentration, Tc (min) Rainfall Intensity (in/hr)	Tributary Runoff (cfs)	Total Area, A (ac)	Summation of Inlet A x C	Antecedent Precipitation (K)	System Tc (min)	System Rainfall Intensity (in/hr)	System Discharge (cfs)	Node Condition	Pipe Material	Pipe Shape	Pipe Size, D (in)	Manning's Coefficient	Upstream Invert (ft)	Downstream Invert (ft)	Length (ft)	Pipe Slope	Design Flow (cfs)	Full Flow Capacity (cfs)	Full Flow Velocity (fps)	Flow Time (sec)	Upstream Crown Elevations	Downstream Crown Elevations	Upstream Depth of Cover	Downstream Depth of Cover	Rim Elevation
ate	10-year 100-year	А3	A2	A3 - A2	0.41	0.41	0.90	1 0.37	5.0 7.4	2.7 4.8	0.41	0.37	1.25	5.0	7.4 10.3	2.7 4.8	Non Setback Curb Inlet	HDPE	Circular	15	0.012	1042.70	1041.30	131.0	1.07%	2.7 4.8	7.2	5.9	22.2	1044.0	1042.6	2.8	3.0	1,046.70
– Priv	10-year 100-year	A2	A1	A2 - A1	1.00	0.89	0.83	1 1.25 0.83	5.0 7.4 10.3	6.1 10.8	1.41	1.20	1 1.25	5.2	7.3 10.2	8.8 15.4	Non Setback Curb Inlet	HDPE	Circular	18	0.012	1040.80	1039.90	84.0	1.07%	8.8 15.4	11.8	6.7	12.6	1042.3	1041.4	3.2	0.6	1,045.50
hase																																		
Lot - F	10-year 100-year	B2	B1	B2 - B1	0.59	0.19	0.49	1 1.25 0.29	5.0 7.4 10.3	2.1 3.8	0.59	0.29	1 1.25	5.0	7.4 10.3	2.1 3.8	Temporary Culvert	RCP	Circular	15	0.013	1040.00	1039.20	72.0	1.11%	2.1 3.8	6.8	5.5	13.0	1041.3	1040.5	0.0	0.0	
rking m Se																																		
ast Pa Stor	10-year 100-year	Cl#17010	C1	Cl#17010 - C1	0.18	0.14	0.77	1 1.25 0.14	5.3 7.3 10.2	1.0 1.8	0.92	0.63	1 1.25	7.0	6.8 9.6	4.3 7.5	Existing Curb Inlet	HDPE	Circular	15	0.012	1038.65	1033.50	175.5	2.93%	4.3 7.5	12.0	9.8	18.0	1039.9	1034.8	8.6	7.0	1,048.46
mit E	10-year 100-year	C1	JB#17519	C1 - JB#17519	0.56	0.51	0.85	1 1.25 0.47	5.0 7.4	3.5 6.1	1.48	1.10	1 1.25	7.1	6.8 9.5	7.5 13.2	Non Setback Curb Inlet	HDPE	Circular	15	0.012	1033.50	1032.36	37.9	3.01%	7.5 13.2	12.1	9.9	3.8	1034.8	1033.6	7.0	7.6	1,041.80
ung s	10-year 100-year	JB#17519	AI #17454	JB#17519 - AI #17454							1.78	1.37	1 1.25	7.2	6.7 9.5	9.3 16.3	Junction Box (Adjust Rim)	HDPE	Circular	18	0.012	1031.93	1024.90	133.8	5.25%	9.3 16.3	26.1	14.8	9.1	1033.4	1026.4	7.8	1.9	1,041.20
Lee	10-year 100-year	Al#17454	AI #17454	Al#17454 - Al #17454	0.16	0.00	0.30	1 1.25 0.05	7.2 6.7 9.5	0.3	2.68	1.97	1 1.25	7.3	6.7 9.5	13.2 23.3	Area Inlet	RCP	Circular	18	0.013	1024.66	1021.24	129.0	2.65%	13.2	17.1	9.7	13.3	1026.2	1022.7	2.2	2.6	1,028.32

	10-year	Upstream Cl#17010	CI#17010	Upstream Cl#17010 - Cl#17010	0.74	0.45	0.66	1	0.49	7.0	6.8	3.3
٤ _	100-year	Opstream Ci#17010	CI#17010	Opsitealiti Ci#17010 - Ci#17010	0.74	0.43	0.00	1.25	0.43	7.0	9.6	5.9
rea	10-year	Upstream System JB	JB#17159	Upstream System JB #17159 -	0.30	0.30	0.90	1	0.27	5.2	7.3	2.0
lpstı Sys	100-year	#17159	100#17109	JB#17159	0.50	0.50	0.90	1.25	0.21	5.2	10.2	2.0
7 N	10-year	CI#10386	AI#17454	Cl#10386 - Al#17454	0.74	0.54	0.74	1.5	0.55	6.2	7.0	5.7
	100-year	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AI#17454	CI#10300 - AI#17434	0.74	0.54	0.74	1.75	0.55	0.2	9.8	9.4

T_C Calculations 3-5-2024

Lee's Summit School District - LSHS Southeast Parking Lot

KVE Project # C23D1880

				7	Time of	Conce	ntratio	n					
Structure	Pipe	Design Storm (years)	Tributary Area, A (ac)	Impervious Area	Runoff Coefficient, C	Total Distance	D1	Slope	Inlet Time (min)	D2	Travel Time (min)	Time of Concentration (min)	Notes
А3	A3 - A2	10-year 100-year	0.41	0.41	0.90	210	100	1.8	3.0	110	0.2	3.1	5 Min Minimum
A2	A2 - A1	10-year 100-year	1.00	0.89	0.83	255	100	2.0	3.8	155	0.3	4.1	5 Min Minimum
B2	B2 - B1	10-year 100-year											
Cl#17010	Cl#17010 - C1	10-year 100-year	0.18	0.14	0.77	130	100	1.5	5.2	30	0.1	5.3	
C1	C1 - JB#17519	10-year 100-year	0.56	0.51	0.85	330	100	1.5	4.0	230	0.4	4.4	5 Min Minimum
JB#17519	JB#17519 - AI #17454	10-year 100-year											
Al#17454	Al#17454 - Al #17454	10-year 100-year	0.16	0.00	0.30	120	100	8.0	7.2	20	0.0	7.2	

WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

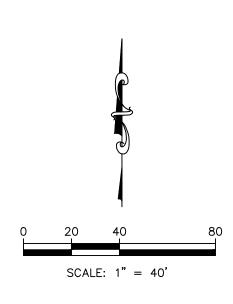
CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

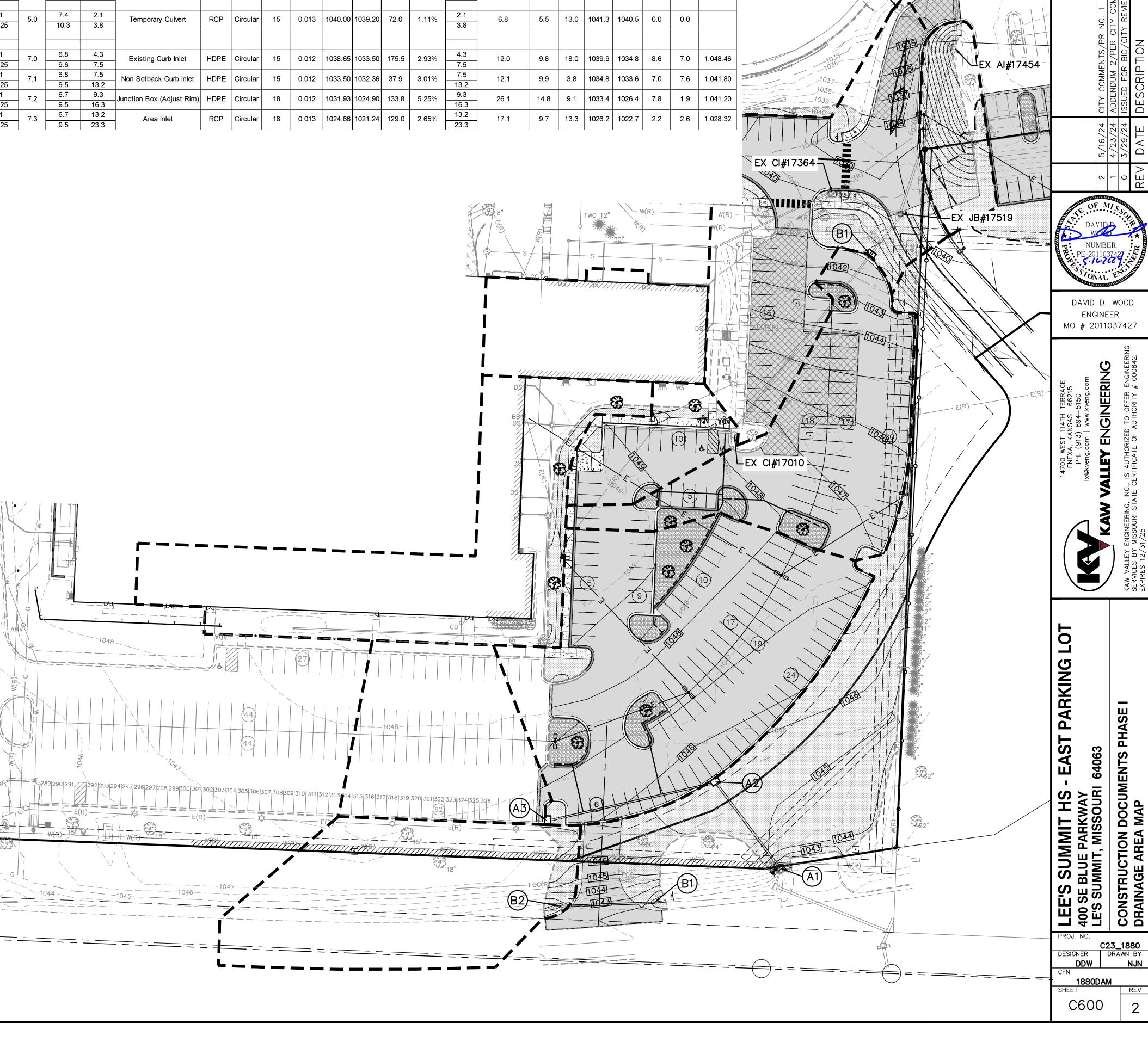
THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR

SAFETY NOTICE TO CONTRACTOR
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR
WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE,
INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.
THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING
HOURS.

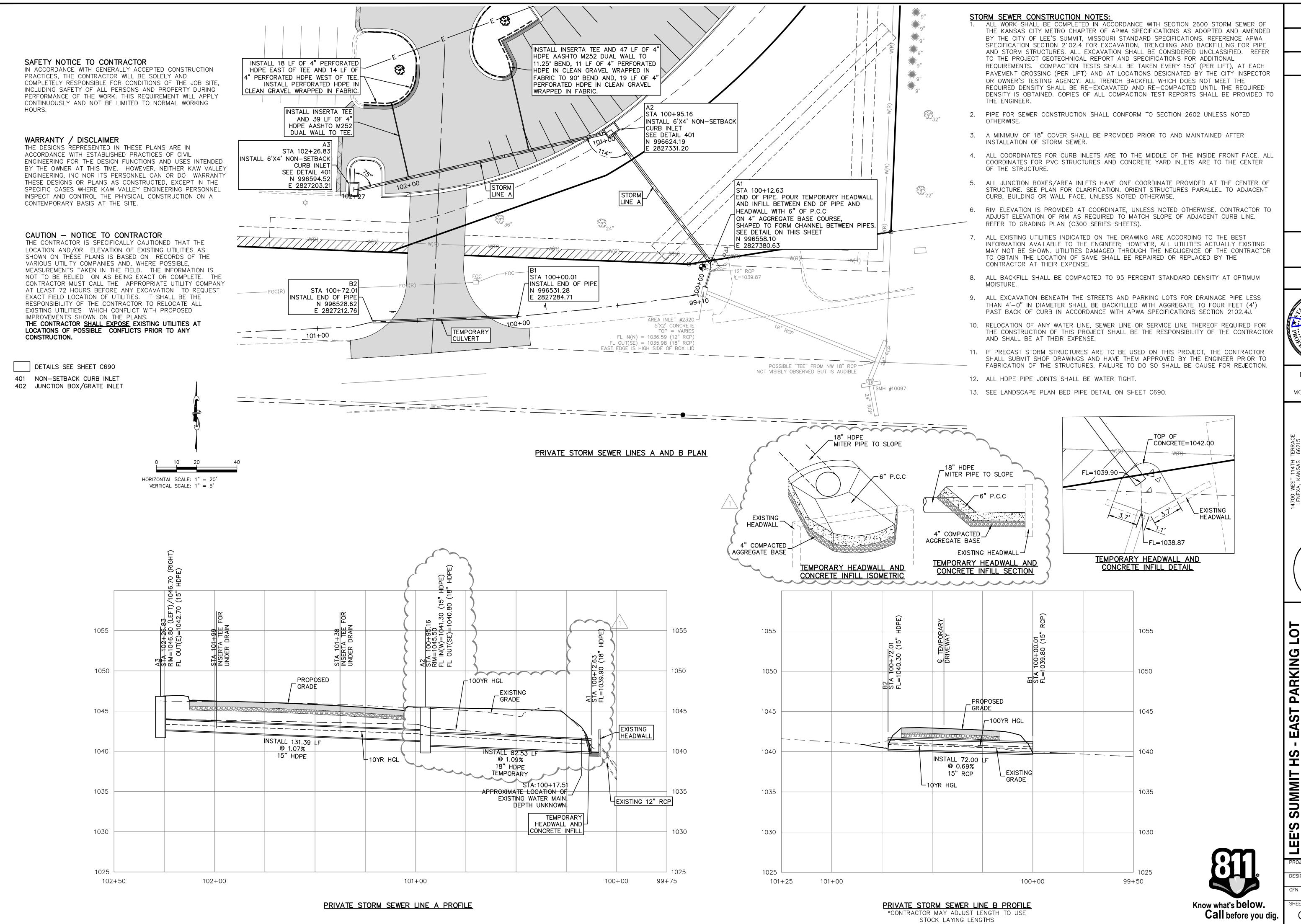






EX AI#14615

EX CI#10386-



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CONSTRUCTION DOCUMENTS F STORM SEWER PLAN AND PRO DESIGNER DDW

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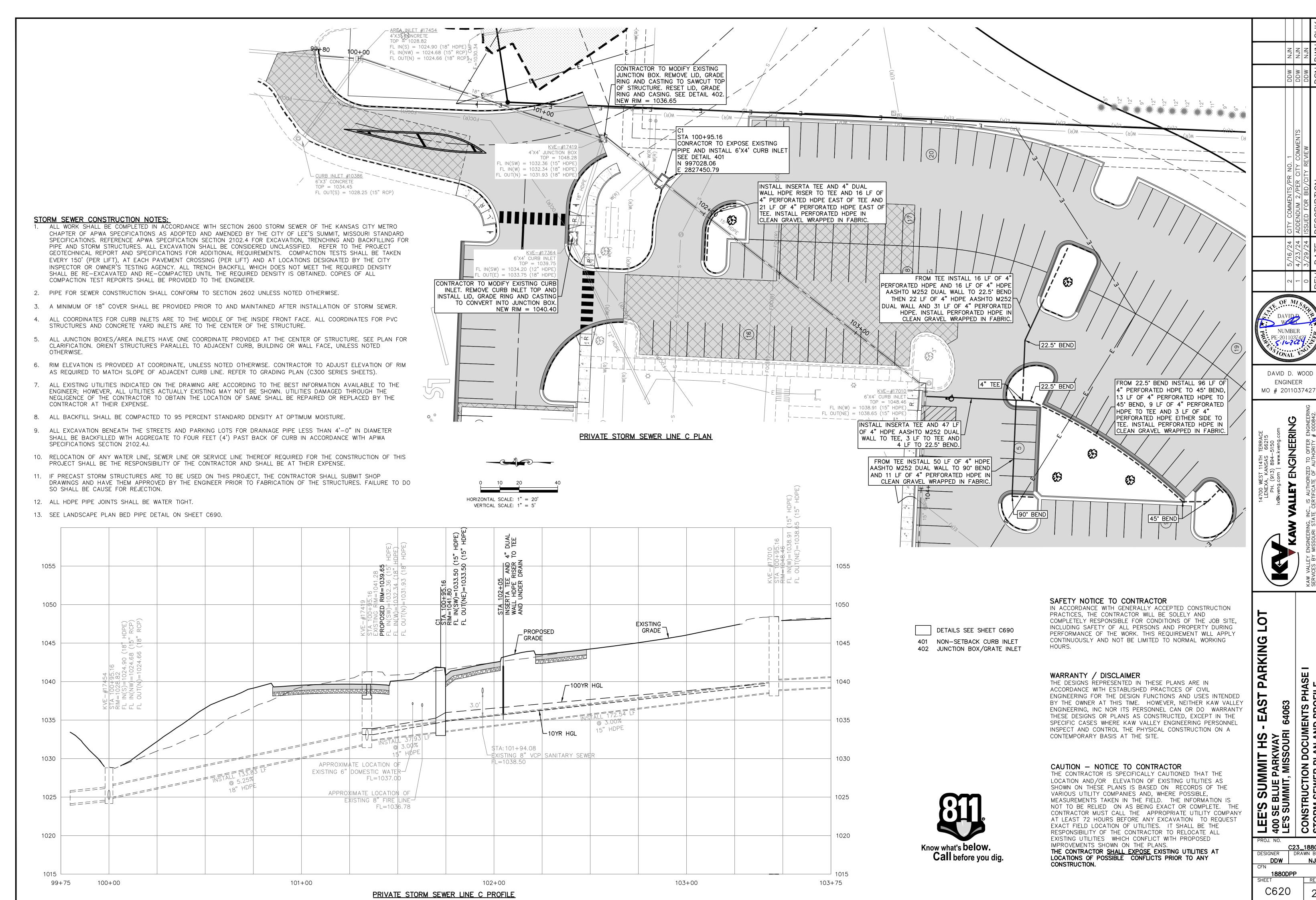
NUMBER

DAVID D. WOOD

ENGINEER

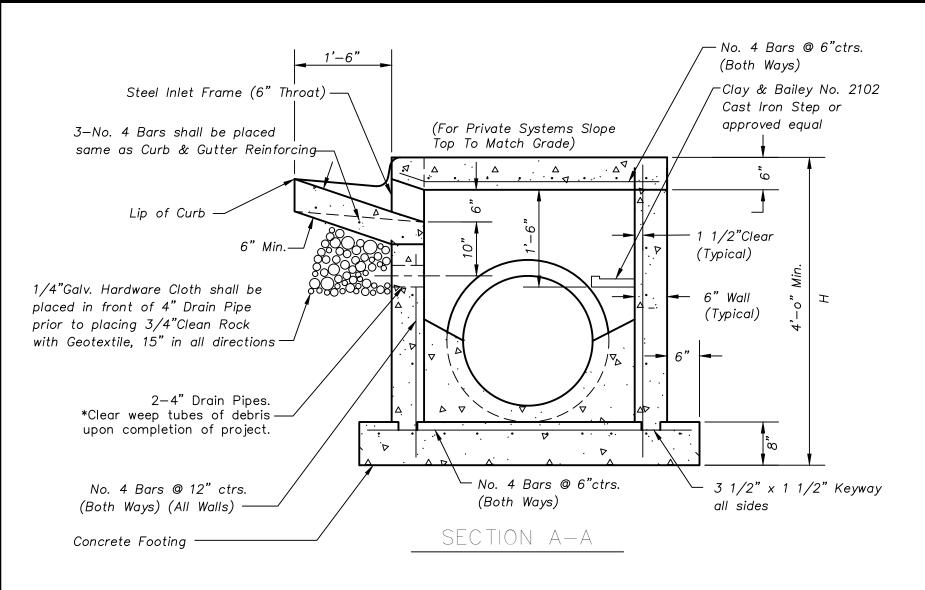
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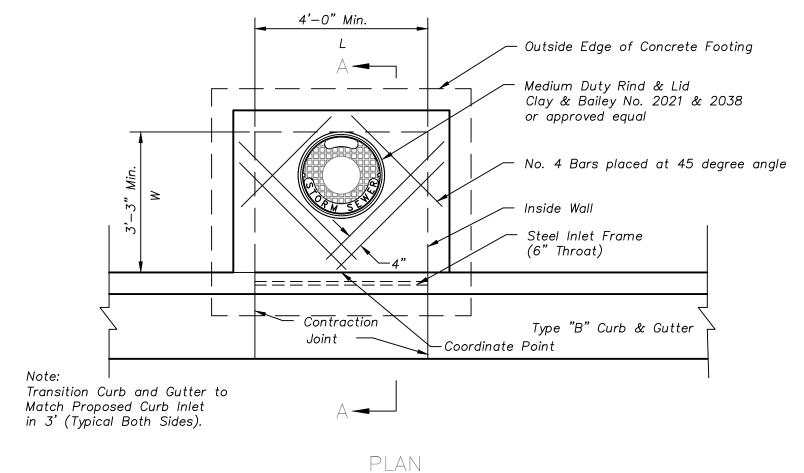
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ENGINEERING

CONSTRUCTION DOCUMENTS STORM SEWER PLAN AND PRO





NON-SETBACK CURB INLET

USE STEEL INLET FRAME WITH 6" THROA PARKING LOTS ONLY

JUNCTION BOX YARD INLETS AND CURB INLET NOTES

GENERAL

- 1. ALL STORM SEWER STRUCTURES SHALL BE PRE-CAST OR POURED IN PLACE. IF PRE-CAST STRUCTURES ARE USED FOR PUBLICLY FINANCED, MAINTAINED OR ADMINISTERED CONSTRUCTION, THE TOPS SHALL BE POURED IN PLACE AND THE WALL STEEL SHALL BE LEFT EXPOSED TO A HEIGHT 2" BELOW THE FINISH TOP ELEVATION, OR AS DIRECTED BY THE CITY ENGINEER.
- 2. PRE-CAST SHOP DRAWINGS ARE TO BE APPROVED BY THE ENGINEER.
- 3. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
- 4. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION. THE CONCRETE THICKNESS AND REINFORCEMENT SHOWN IS FOR BOXES WITH ("L"+"H") AND ("W"+"H") LESS THEN OR EQUAL TO 20. FOR BOXES WITH EITHER OF THESE CALCULATIONS GREATER THAN 20, À SPECIAL DESIGN IS REQUIRED. PRECASTER SHALL PROVIDE DESIGN CALCULATIONS FOR DEEP STRUCTURES TO ENGINEER PRIOR TO CONSTRUCTING BOX.

CONCRETE

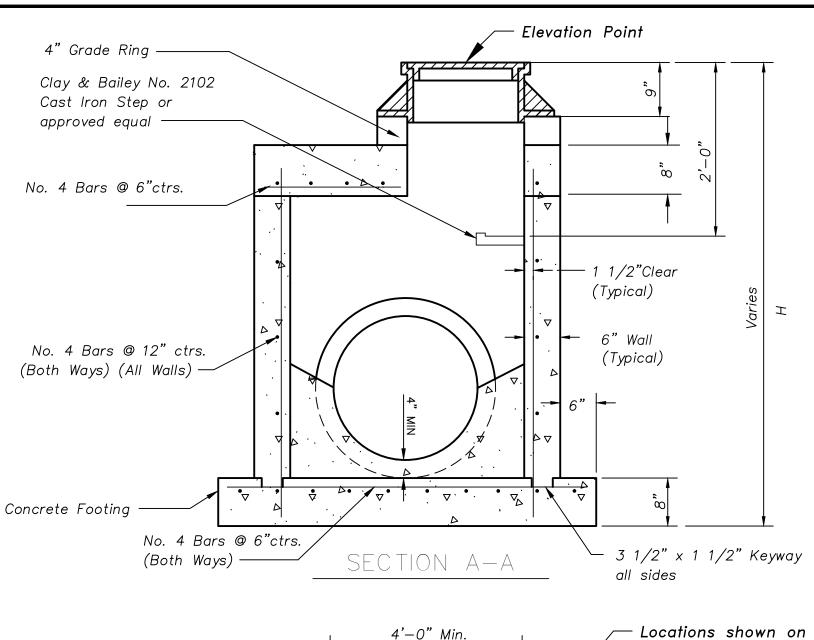
- 5. CONCRETE USED IN THIS WORK SHALL BE CLASS "A" CONCRETE (AE) THROUGHOUT, AND SHALL MEET THE REQUIREMENTS OF THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.
- 6. CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR MCIB, LATEST EDITION, EXCEPT AS MODIFIED IN THE APWA TECHNICAL SPECIFICATIONS.
- 7. INLET FLOORS SHALL BE SHAPED WITH NON-REINFORCED CONCRETE INVERTS TO PROVIDE SMOOTH FLOW.
- 8. BEVEL ALL EXPOSED EDGES WITH 3/4" TRIANGULAR MOLDING.
- 9. 8" SOLID CONCRETE BLOCK OR BRICK MAY BE USED IN WALLS IN LIEU OF POURED CONCRETE WHERE NEITHER "H"+"L" NOR "H"+"W" (IN FEET) EXCEED FOURTEEN. BLOCK OR BRICK MAY BE USED IN ANY BOX WHERE "H" IS 5' OR LESS.
- 10. ALL CRUSHED STONE USED AS AGGREGATE FOR CONCRETE CONSTRUCTION SHALL BE OBTAINED FROM QUARRIES AND BEDS DESIGNATED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION AS MEETING DURABILITY REQUIREMENTS OF KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.

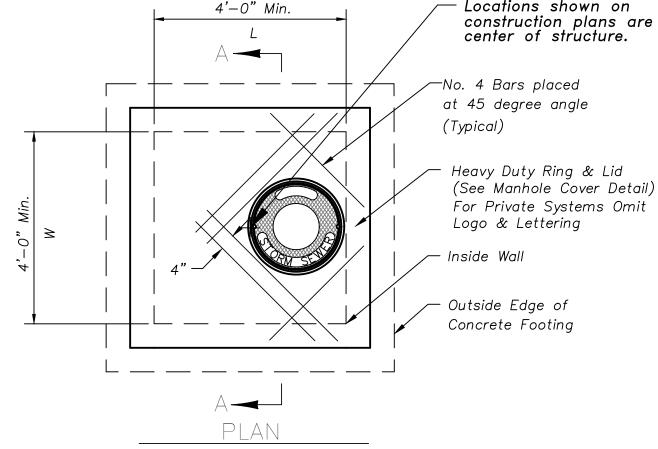
REINFORCING STEEL

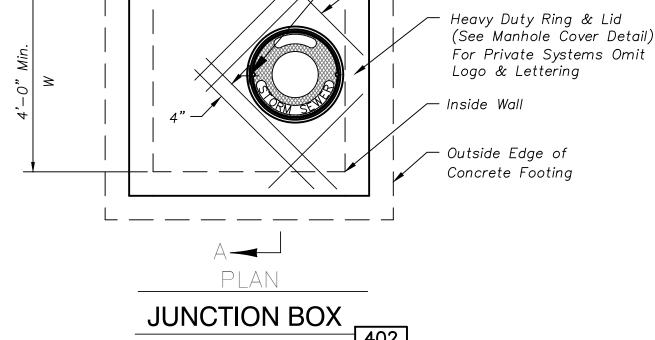
- 11. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 60 AS PER ASTM A615, AND SHALL BE BENT COLD.
- 12. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF +/- %" SHALL BE PERMITTED.
- 13. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
- 14. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM
- 15. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.

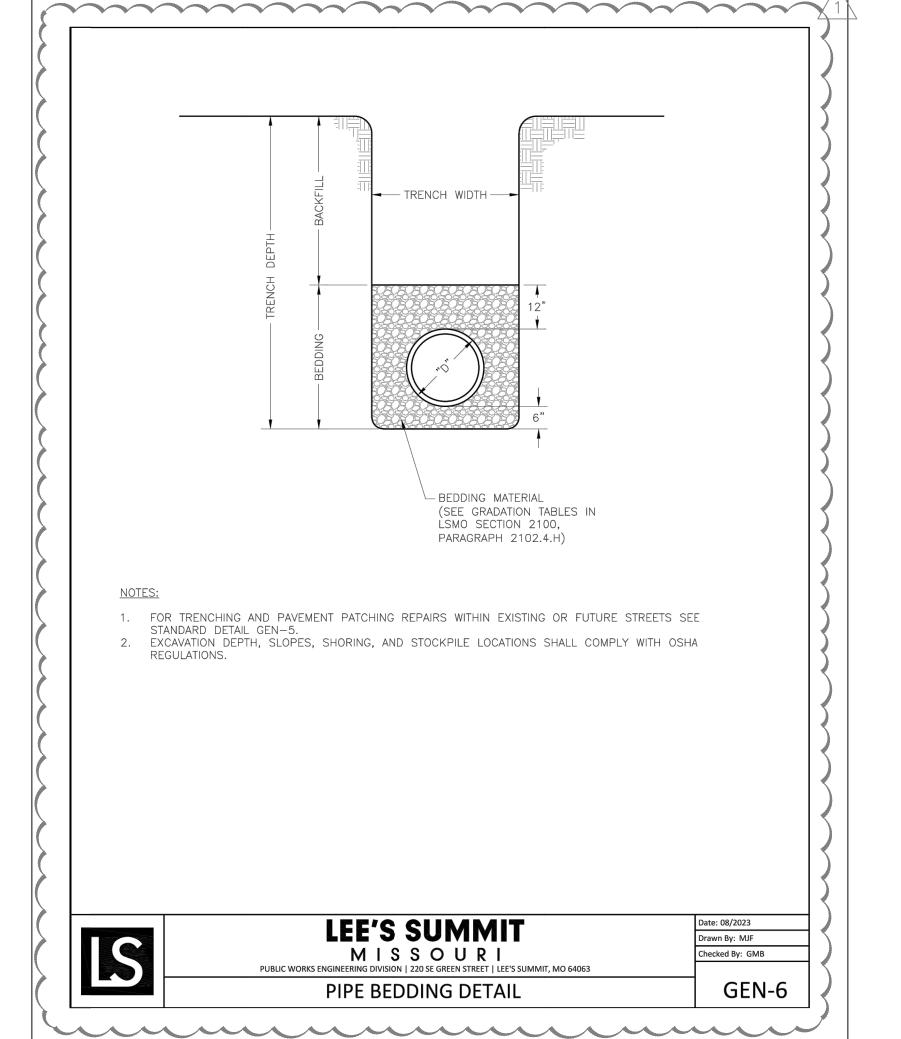
CONSTRUCTION

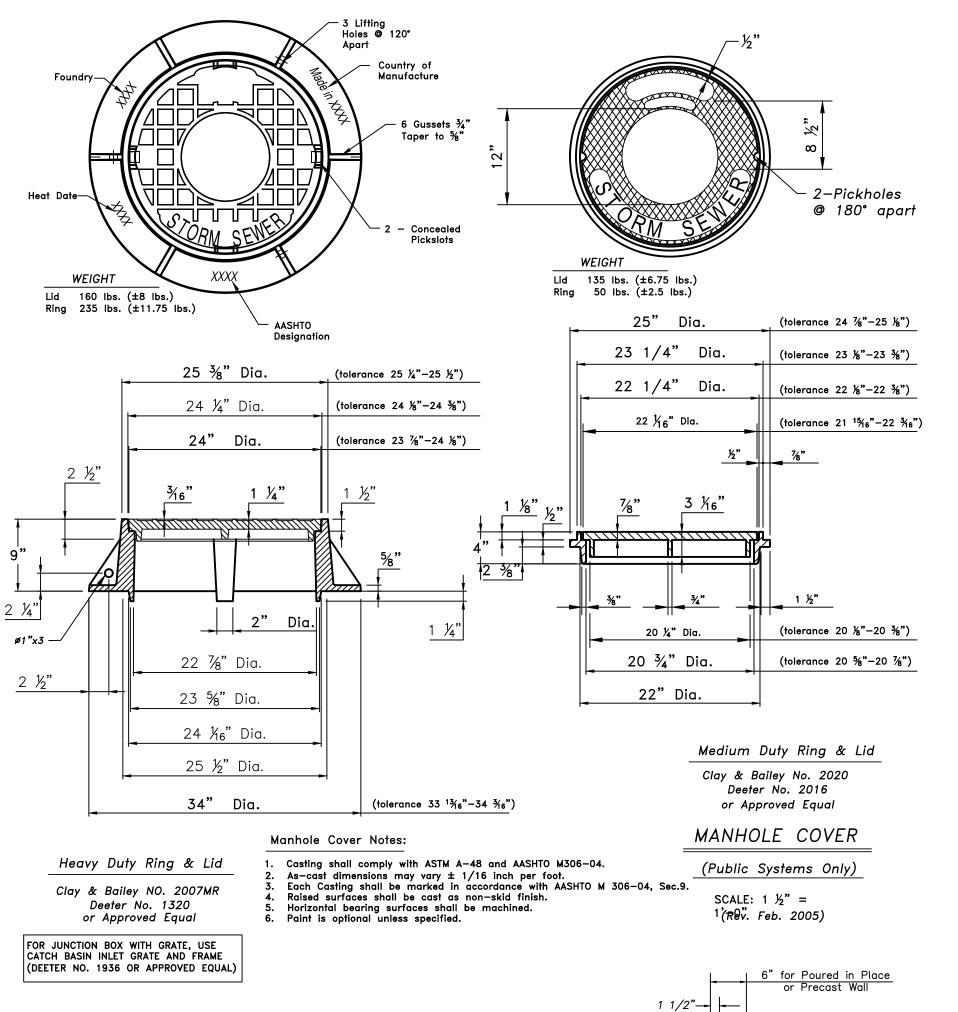
- 16. THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL, AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
- 17. PIPE CONNECTIONS TO PRE-CAST STRUCTURES SHALL HAVE A MINIMUM OF 6" OF CONCRETE AROUND THE ENTIRE PIPE WITHIN 2' OF THE STRUCTURE.
- 18. MATERIAL SELECTION AND COMPACTION REQUIREMENTS FOR BACKFILL AROUND STRUCTURES SHALL BE AS SPECIFIED IN THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.

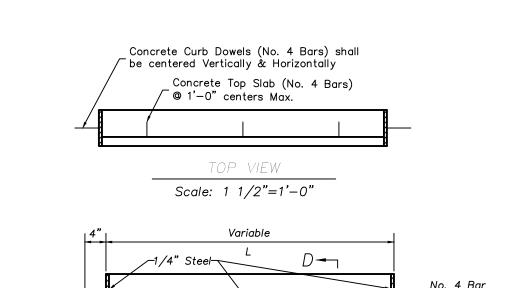




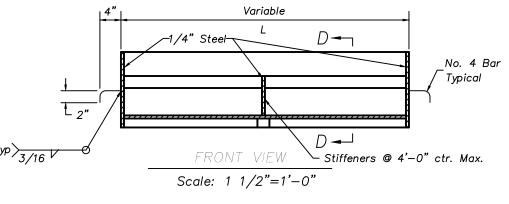








3/16" Steel — No. 4 Bar $1/2 \times 1 1/2 \times 1/4 \times 0 - 2$ Typical @ Stiffeners SECTION D-D (6" WALL) Scale: 1 1/2"=1'-0"

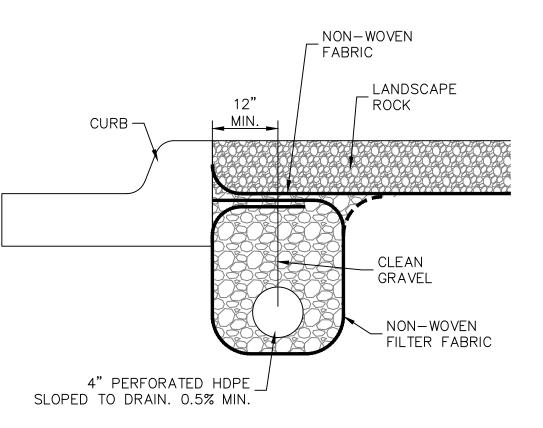


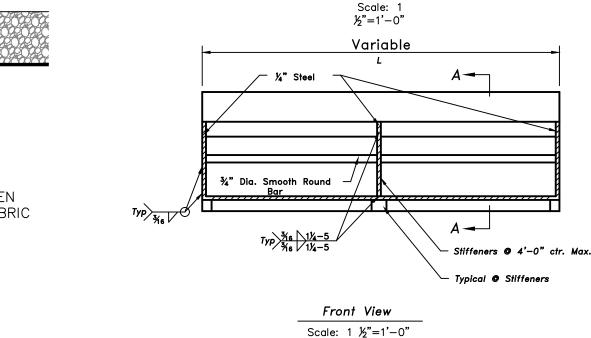
Notes: 1. All Welds shall be performed in accordance with appropriate AWS Specifications & Procedures. 2. All Welds on Exposed Surfaces shall be dressed so as to

provide a pleasing finished appearance. 3. The Entire Frame shall be Hot Dip Zinc in Accordance ASTM

STEEL INLET FRAME (6" AND 10" THROAT)

USE 6" WITH NON-SETBACK CURB INLET/AREA INLET USE 10" WITH SETBACK CURB INLET

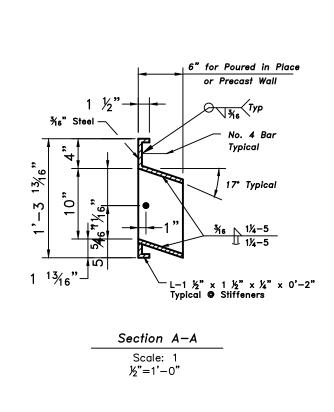




Concrete Top Slab (No. 4 Bars)

Top View

② 1'−0" centers Max.



LANDSCAPE BED DETAILS

AR ENTS 6406 DOCUM ETAILS LEES LEIS DESIGNER DRAWN B

NUMBER

DAVID D. WOOD

ENGINEER

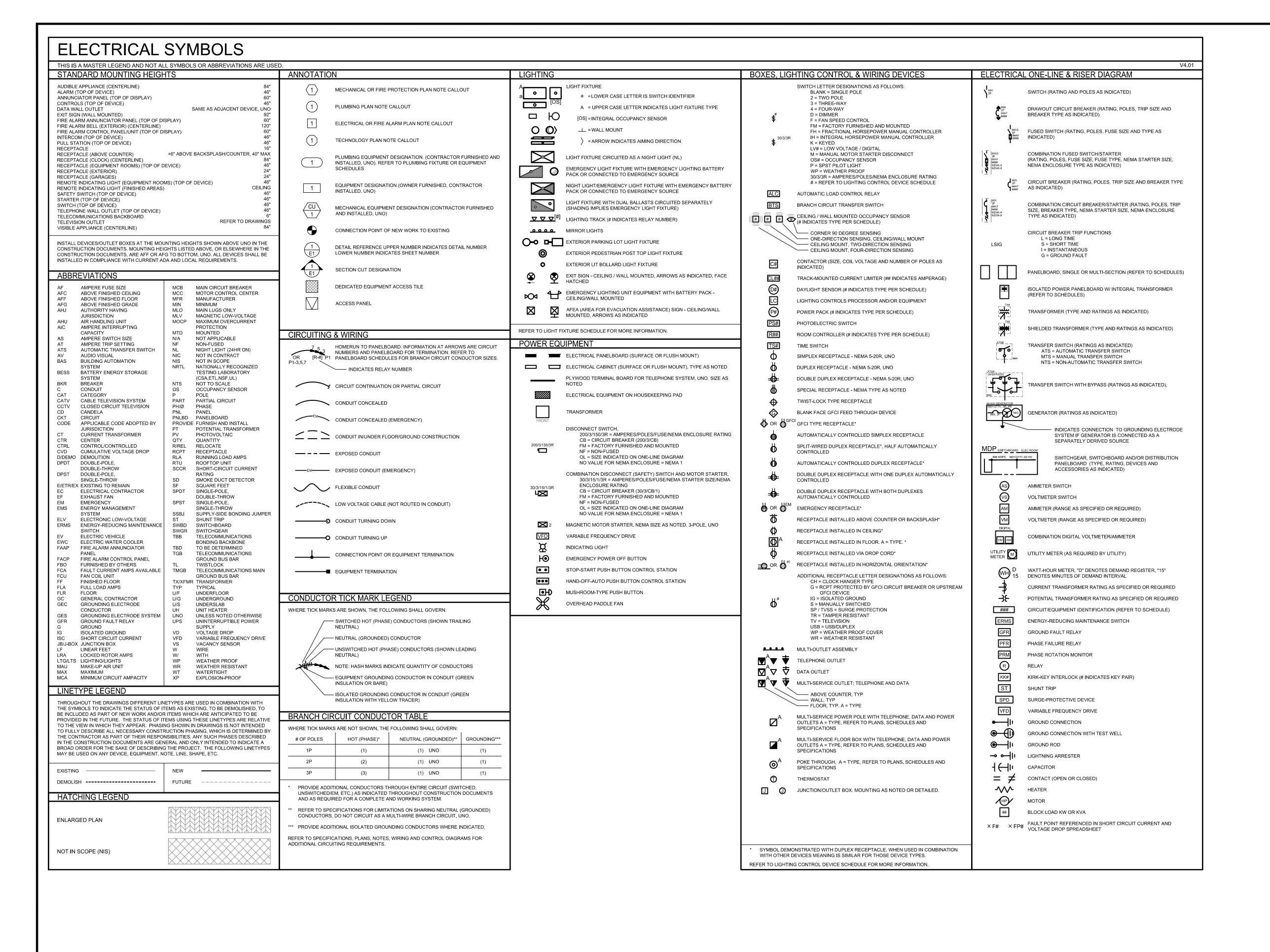
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ENGINEERING

ST 114TH KANSAS 313) 894–

OFFER HORITY ₁

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APPLICABLE ELECTRICAL CODES:

NOTE: PROJECT IS DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES. THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND LOCAL REQUIREMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE, (NFPA 70)

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE

SITE ELECTRICAL GENERAL NOTES

- EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT ACTUAL "AS-BUILT" CONDITIONS. VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BID. COORDINATE NEW AND DEMOLITION WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS.
- NOTIFY ENGINEER AND OWNER, AS APPLICABLE, IF ANY DANGEROUS CONDITIONS EXIST ON JOB SITE BEFORE ANY DEMOLITION OR REMODEL WORK BEGINS.
- 3. COORDINATE ANY NECESSARY POWER OUTAGES WITH THE OWNER AND MAKE EVERY ATTEMPT TO SCHEDULE DURING NON-BUSINESS OR OFF-PEAK BUSINESS HOURS TO MINIMIZE DISRUPTION TO BUSINESS OPERATIONS. REQUESTS FOR ELECTRICAL SHUTDOWNS SHALL BE BROUGHT IN WRITING TO THE ATTENTION OF THE OWNER AT LEAST 7 DAYS IN ADVANCE. SHUTDOWNS SHALL NOT BE PERFORMED WITHOUT WRITTEN APPROVAL FROM THE OWNER.
- 4. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS SITE WORK: EXISTING ELECTRICAL EQUIPMENT AND CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN REQUIREMENTS CAN BE MET; OTHERWISE REPLACE.

ELECTRICAL SUPPLEMENTAL SPECIFICATIONS:

- 1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS. AS APPLICABLE, REVIEW THE OWNER CRITERIA, GENERAL NOTES, OTHER TRADE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMITTING BID.
- 2. ALL WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE INDUSTRY STANDARDS. ALL EQUIPMENT SHALL BEAR LABELS FOR THE USE INTENDED BY AN AHJ ACCEPTED NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), SUCH AS UL OR ETL. THE FINAL ELECTRICAL INSTALLATION OF THE FACILITY OCCUPIED BY OWNER SHALL BE FREE FROM ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENGINEER.
- 3. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS OF ALL LIGHT FIXTURES, ELECTRICAL EQUIPMENT AND ELECTRICAL DEVICES WITH CIVEL DRAWINGS, EXISTING CONDITIONS AND OTHER TRADES PRIOR TO ROUGH-IN. PROVIDE ALL NECESSARY DEVICES, CORDS, PLUGS, DISCONNECTS AND FINAL CONNECTIONS TO ELECTRICAL EQUIPMENT FOR PROPER OPERATION IN ACCORDANCE WITH CODE, OWNER AND MANUFACTURER REQUIREMENTS.
- 4. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC/SCHEMATIC IN NATURE AND REPRESENT THE GENERAL SCOPE OF WORK. IT IS NOT WITHIN THE SCOPE OF THE ELECTRICAL DRAWINGS TO SHOW ALL NECESSARY RACEWAY ROUTING, BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EQUIPMENT AND WIRING DEVICES WITH OTHER TRADES PRIOR TO INSTALLATION AND INSTALL ALL WORK TO CONFORM TO THE OWNER REQUIREMENTS.
- 5. ALL CONDUCTOR AND CONDUIT LENGTHS SHOWN IN THESE DESIGN DOCUMENTS ARE INTENDED SOLELY FOR USE IN THE DESIGN CALCULATIONS BY THE DESIGN PROFESSIONAL, UNLESS NOTED OTHERWISE. LENGTHS SHOWN SHALL NOT BE USED TO ASSIST IN THE BIDDING TAKEOFF PROCESS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MATERIAL QUANTITIES REQUIRED TO BID AND CONSTRUCT THE COMPLETE PROJECT.
- PROVIDE PROPER FIRE PROOFING AND SEALANT FOR PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. THE FIRE STOPPING METHOD, MATERIAL AND ITS APPLICATION SHALL BE NRTL LISTED, CODE COMPLIANT AND APPROVED BY AHJ.
- 7. ALL EMPTY CONDUIT/RACEWAY SHALL BE INSTALLED WITH PULL STRINGS. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING.
- 8. EXPOSED CONDUIT/RACEWAY SHALL BE PAINTED TO MATCH ADJACENT SURFACE, UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- 9. CONDUITS/RACEWAYS SHALL BE CONCEALED FROM VIEW WHEREVER PRACTICABLE, UNLESS NOTED OTHERWISE. DO NOT ROUTE CONDUITS ACROSS SKYLIGHTS, ACCESS PANELS, HATCHED TILES, HVAC DIFFUSERS, OR EQUIPMENT WORKING CLEARANCE SPACE. ROUTE ALL EXPOSED NON-FLEXIBLE CONDUITS TIGHT TO STRUCTURE, PARALLEL TO BUILDING LINES AND IN STRUT OR CABLE/PIPE TRAY WHERE PRACTICABLE. INSTALL CONDUITS PLUMB/ LEVEL WHERE EXPOSED TO VIEW. COORDINATE RACEWAY ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
- 10. MULTIWIRE BRANCH CIRCUITS ARE NOT ALLOWED, UNLESS NOTED OTHERWISE.
- 11. PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL CIRCUITS, UNLESS NOTED OTHERWISE.

HENDERSON ENGINEERS

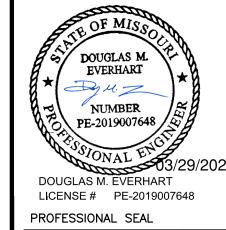
8345 LENEYA DRIVE SUITE 300

MO. CORPORATE NUMBER: E-556D

10/31/24

8345 LENEXA DRIVE, SUITE 300 LENEXA, KS 66214 TEL 913.742.5000 FAX 913.742.5001 WWW.HENDERSONENGINEERS.COM 2450001728

LEE'S SUMMIT SCHOOL DISTRICT LSHS SE PARKING LOT LIGHTING



REVISIONS

JOB NO: 2450001728

DATE: 03-08-24

CHECKED BY: OD

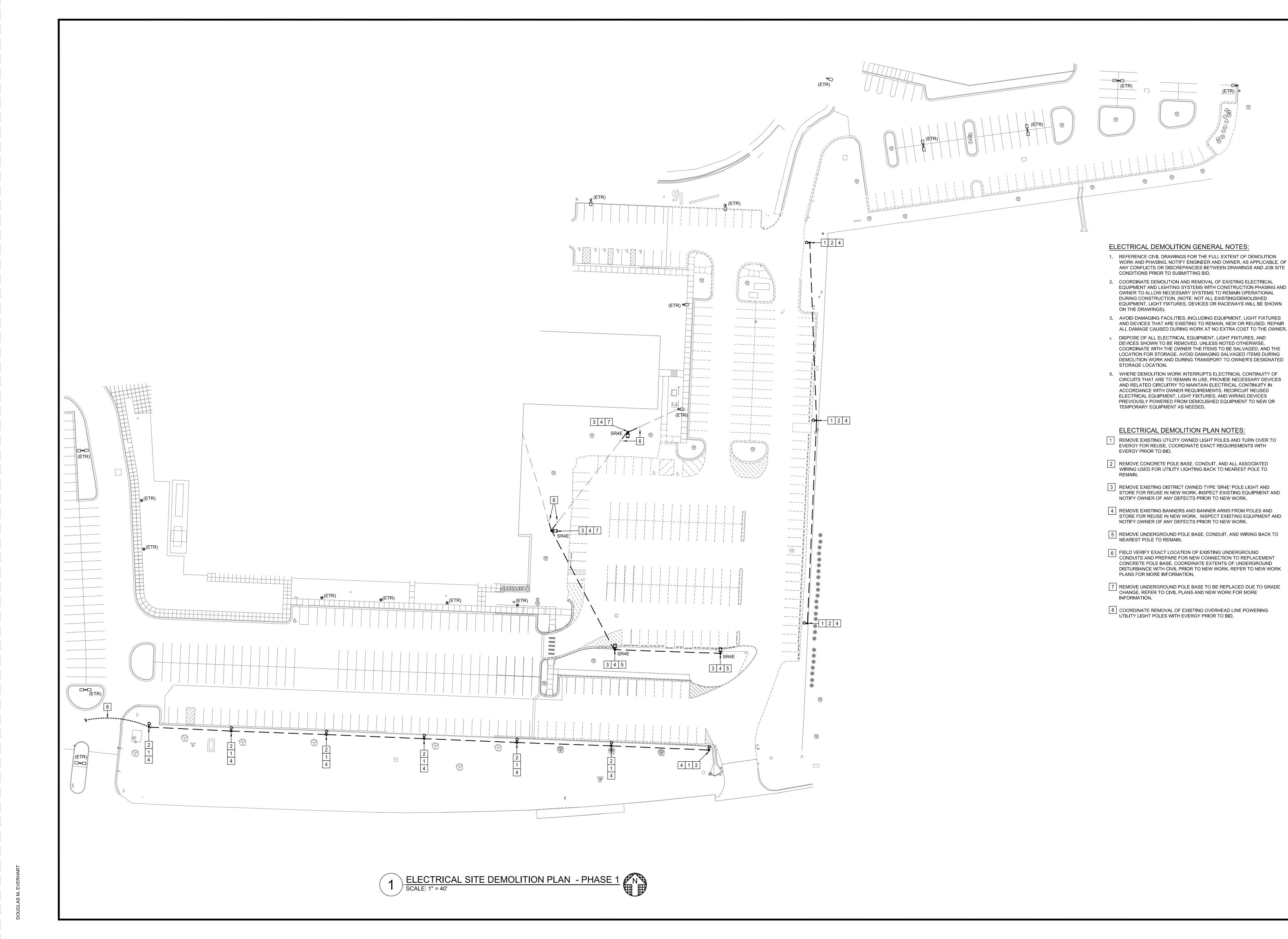
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ELECTRICAL

GENERAL NOTES

E-001

AND LEGEND



HENDERSON ENGINEERS

8345 LENEXA DRIVE, SUITE 300 LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001 WWW.HENDERSONENGINEERS.COM

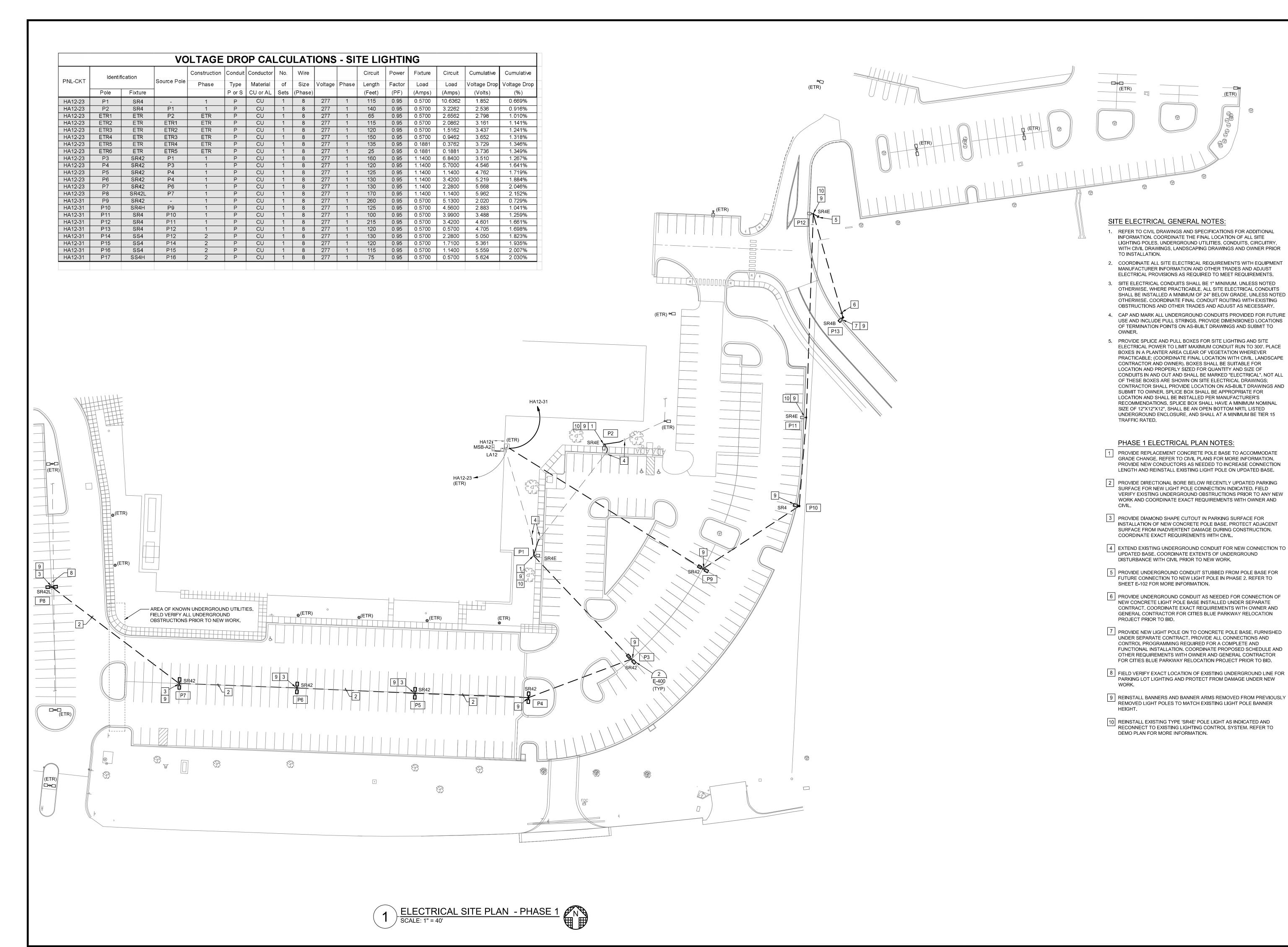
2450001728 MO. CORPORATE NUMBER: E-556D 10/31/24

PE-2019007648 DOUGLAS M. EVERHART LICENSE # PE-2019007648 PROFESSIONAL SEAL

REVISIONS

JOB NO: 2450001728 DATE: 03-08-24 CHECKED BY: DRAWN BY:

ELECTRICAL SITE DEMOLITION PLAN PHASE 1



HENDERSON **ENGINEERS**

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MO. CORPORATE NUMBER: E-556D 10/31/24

EVERHART NUMBER PE-2019007648 DOUGLAS M. EVERHART LICENSE # PE-2019007648

PROFESSIONAL SEAL **REVISIONS**

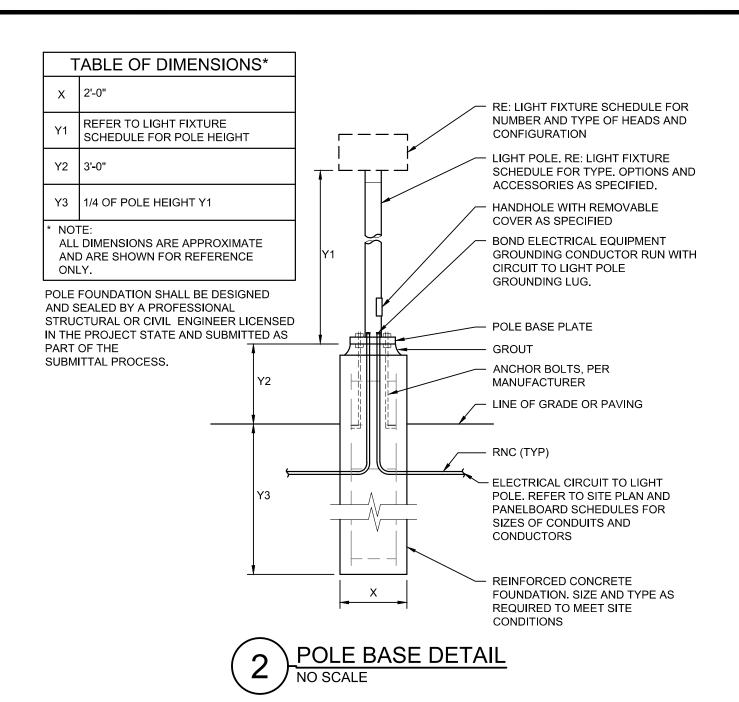
> 2450001728 03-08-24

DRAWN BY: ELECTRICAL SITE PLAN PHASE 1

JOB NO:

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DATE:



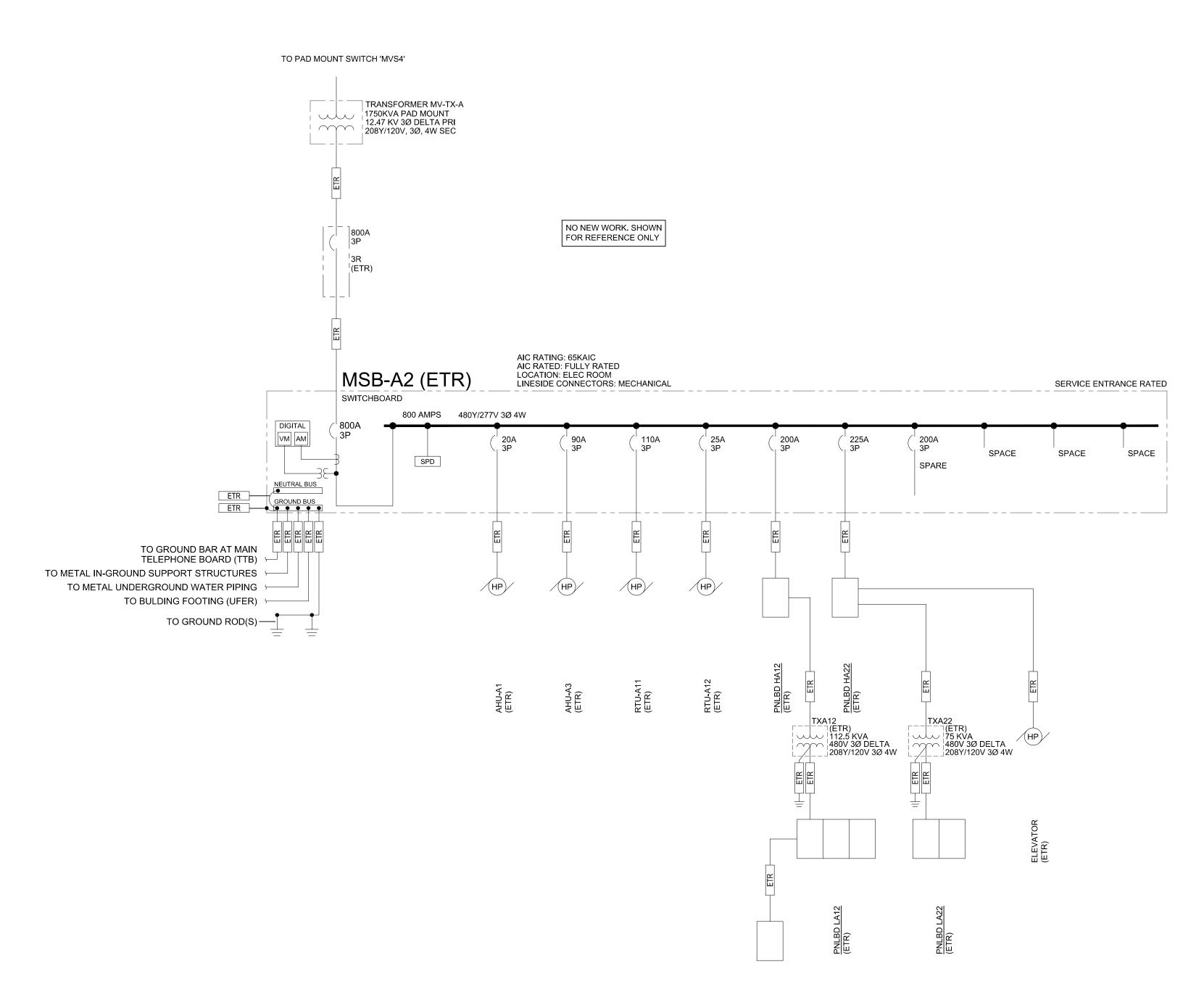
	LIGHT FIXTURE SCHEDULE														
TYPE	MANUFACTURER	SERIES / MODEL	APPROVED ALTERNATES			SOUR			CONTROL	VOLTAGE		INPUT	DESCRIPTION	NOTES	
				QTY	TYPE	CRI	ССТ	LUMENS	TYPE		WATTS	VA			
SR4	LUMARK	PREVAIL PRV-C60-D-UNV-T4-SA-XX ZW-SWPD5BZ	(NONE)	1	LED	70	4000K	20,000	WRELESS	277	153	158	PROVIDE FIXTURE WITH STANDARD FINISH TO MATCH ADJACENT LIGHTS AND WAVELINX SENSOR CONFIGURED TO INTERFACE WITH EXISTING SITE LIGHTING CONTROL SYSTEM. PROVIDE 20' TALL 5" ROUND STRAIGHT POLE WITH STANDARD FINISH TO MATCH ADJACENT FIXTURES.	1,2	
SR4E	LUMARK	PREVAIL PRV-C40-D-UNV-T4-SA-XX ZW-SWPD5BZ	(NONE)	1	LED	70	4000K	20,000	WRELESS	277	153	158	EXISTING TYPE 'SR4' TO BE REUSED. SHOWN FOR REFRENCE ONLY.		
SR42	LUMARK	PREVAIL PRV-C40-D-UNV-T4-SA-XX ZW-SWPD5BZ	(NONE)	2	LED	70	4000K	20,000	WIRELESS	277	306	316	SIMILAR TO TYPE 'SR4' ONLY WITH (2) FIXTURE HEADS AT 180 DEGREES.	1,2	
SR4B	LUMARK	PREVAIL PRV-C40-D-UNV-T4-SA-XX ZW-SWPD5BZ	(NONE)	1	LED	70	4000K	20,000	WRELESS	277	153	158	SIMILAR TO TYPE 'SR4' ONLY WITH BOLT PATTERN COORDINATED WITH OTHERS AND INCLUDING INDIVIDUAL SETUP OF WIRELESS CONTROL AND INTEGRATION TO ACCOMMODATE CONSTRUCTION SCHEDULE	1,2	
SR42L	LUMARK	PREVAIL PRV-C40-D-UNV-T4-SA-XX ZW-SWPD5BZ	(NONE)	2	LED	70	4000K	20,000	WRELESS	277	306	316	SIMILAR TO TYPE 'SR42' ONLY WITH 18' TALL POLE.	1,2	
SS4	LUMARK	PREVAIL PRV-C40-D-UNV-T4-SA-XX ZW-SWPD5BZ	(NONE)	1	LED	70	4000K	20,000	WRELESS	277	153	158	PROVIDE FIXTURE WITH STANDARD FINISH TO MATCH ADJACENT LIGHTS AND WAVELINX SENSOR CONFIGURED TO INTERFACE WITH EXISTING SITE LIGHTING CONTROL SYSTEM. PROVIDE 22' TALL 4" SQUARE STRAIGHT POLE WITH VIBRATION DAMPENER AND STANDARD FINISH TO MATCH ADJACENT FIXTURES.	1,2	

GENERAL NOTES:

A. REFER TO LIGHT FIXTURE SCHEDULE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1. DUE TO AESTHETIC OR PERFORMANCE CRITERIA, SPECIFIED MANUFACTURER SHALL BE THE ONLY MANUFACTURER ALLOWED TO BID UNLESS OTHERWISE BY ENGINEER.

2. PROVIDE WIRELESS CONTROL INTERFACE COMPATIBLE WITH EXISTING COOPER WAVELINX SITE LIGHTING CONTROL SYSTEM. PROVIDE INTEGRATION AND PROGRAMMING AS NEEDED TO CONTROL NEW LIGHTS WITH EXISTING SYSTEM.



LIGHT FIXTURE SCHEDULE GENERAL NOTES:

- ALL LIGHT FIXTURES AND RELATED COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- 2. THE PARTY SUPPLYING THE LIGHT FIXTURES IS RESPONSIBLE FOR SUPPLYING THE PROPER QUANTITY OF LIGHT FIXTURES.
- 3. COORDINATE WITH OWNER TO RECEIVE (1) EXISTING 'SR4' HEAD AND (2) 20 FOOT ROUND POLES FROM OWNERS ATTIC STOCK TO BE USED IN PHASE-1 OF THIS PROJECT. INSPECT AND CLEAN EXISTING EQUIPMENT AND NOTIFY OWNER OF ANY DEFECTS FOUND PRIOR TO INSTALLATION. PROVIDE NEW POLE BASE COVERS, MOUNTING ARMS, AND OTHER ACCESSORIES NEEDED TO MATCH NEW INSTALLATIONS.

LIGHT FIXTURE SCHEDULE SUPPLEMENTAL SPECIFICATIONS:

- 1. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBERS ONLY. FIRST READ THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS IN CONJUNCTION WITH THE CATALOG NUMBER TO DETERMINE THE MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.
- FOR SUBSTITUTIONS: PROVIDE PHOTOMETRIC CALCULATIONS AND OTHER NECESSARY INFORMATION FOR ENGINEER REVIEW. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

BUS MAIN VOL	NELBOARD: HA12 (E AMPS: 250A I SIZE/TYPE: MLO TS/PHASE: 208Y/120V, 3PH, 4W TION: 1	TR)			AIC R MOU SER\	ROM: ATING NTING /ES: ATION:	3: 3:	35 SU BL	IRFAC DG A L	E .TG	RATED	2262		LINE-SIDE LUGS: MECHAN EQUIPMENT GROUND	
CKT	DESCRIPTION	VOLTAMPS/PHASE		HASE	WIRE BKR		Р	Р			VOL	TAMPS/PH	HASE	DESCRIPTION	СКТ
NO.		Α	В	С	NO.	AMP			AMP	NO.	Α	В	С		NO
1		29,321						1						DEDICATED SPACE	2
3	TXA12		24,553		EX	175	3	1						DEDICATED SPACE	4
5				26,354	1			1						DEDICATED SPACE	6
7								1	20	EX	40			EXT. LTG. + BSMNT FITNESS RM	8
9	SPD				EX	30	3	1	20	EX		2,000		UH-7	10
11					1			1	20	EX			2,000	UH-8	12
	LTG RM 2263	1,000			EX	20	1	1	20	EX	1,000			EXISTING LOAD	14
15	EXISTING LOAD		1,000		EX	20	1	1	20	EX		1,000		EXISTING LOAD	16
17	EXISTING LOAD			1,000	EX	20	1	1	20					SPARE	18
19	EXISTING LOAD	1,000			EX	20	1	1	20					SPARE	20
21	EXTLTG		1,000		EX	20	1	1	20	EX		1,000		LTG RM 2276,2280,2278	22
23	EXT LTG SE PARKING LOT			2,946	EX	20	1	1	20	EX			1,000	LTG RM 2275	24
25	EXISTING LOAD	1,000			EX	20	1	1	20	EX	1,000			LTG RM 2258	26
27	EXISTING LOAD		500		EX	20	1	1	20	EX		1,000		LTG RM 2262	28
	EXISTING LOAD			500	EX	20	1	1	20	EX			1,000	EXISTING LOAD	30
31	EXT LTG E PARKING LOT	1,421			8	20	1	1	20					SPARE	32
	SPARE					20	1	1		EX				EQUIPPED SPACE	34
	EQUIPPED SPACE				EX		1	1		EX				EQUIPPED SPACE	36
	EQUIPPED SPACE				EX		1	1		EX				EQUIPPED SPACE	38
	EQUIPPED SPACE				EX		1	1		EX				EQUIPPED SPACE	40
41	EQUIPPED SPACE				EX		1	1		EX				EQUIPPED SPACE	42
	SUBTOTAL	33,742	27,053	30,800	1						2,040	5,000	4,000	SUBTOTAL	
	TOTAL PHASE A - VA 35,782	LOAD		CONN. V	4	DF		LO	AD			CONN. VA	DF		
	AMPS 298	COOLING	[C]	6,585	i	1.00	1	REI	FRIG	[F]			1.00	1	
	TOTAL PHASE B - VA 32,053	HEATING	[H]	4,962		0	1	SIG	NAGE	[S]	**************		1.25		
	AMPS 267	LIGHTING	[L]	18,407	,	1.25	1	ΚП	CHEN	[K]		3,000	1.00		
	TOTAL PHASE C - VA 34,800	RECEPTA		45,330		1.0/.5	1	EXI	ISTING	[E]		5,001	1.00		
	AMPS 290	MOTORS	[M]	4,803		1.00	1	LR	G MOTO)R			1.25	TOTAL DEMAND	1
	TOTAL PNLBD - VA 102,635	SUPP HEA	T [U]	4,000		1.00	1	SH	OW WN	ID [W]			1.25	89,572 VA	1
		15,509		1.00	1.00 LTG TRACK			K			1.00	249 A			
PANI				15,509)	1.00		LTC	G TRAC	K	ED LOAD				

ONE-LINE DIAGRAM SUPPLEMENTAL SPECIFICATIONS:

1. PROVIDE TYPED UPDATED CIRCUIT DIRECTORY FOR PANELBOARDS TO REFLECT ACTUAL AS-BUILT CONDITIONS. COORDINATE FINAL ROOM NAMES, NUMBERS AND DESCRIPTIONS WITH OWNER PRIOR TO COMPLETION. CIRCUIT DESCRIPTIONS SHALL BE PER CODE AND SHALL BE DISTINGUISHABLE FROM ALL OTHERS.

SUMMIT SCHOOL DISTRIC SE PARKING LOT LIGHTING

HENDERSON ENGINEERS

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DOUGLAS M. EVERHART

NUMBER
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LICENSE # PE-2019007648

PROFESSIONAL SEAL

REVISIONS

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 CHECKED BY:
 OD

 DRAWN BY:
 ASM

ELECTRICAL SCHEDULES AND DETAILS

E-400