ARMSTRONG PARK IMPROVEMENTS CITY OF GRAIN VALLEY, MISSOURI LRA PROJECT NO. 0322006.03

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RELOCATION WORK ORDER

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RICK BRYAN AT&T CWO ENGINEERING

AT&T



CALL OR CLICK 3 DAYS BEFORE YOU DIG

UTILITY CONTACTS

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RYNEARSON

JACKSON COUNTY PWSD 17 JASON HERMAN 102 3RD STREET, PO BOX 256 GRAIN VALLEY, MO 61029-0000 816-229-3838

ELECTRIC EVERGY BLUESPRINGS CENTER 1105 SE US-40 HWY BLUE SPRINGS, MO 64014 GARY JONES

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CENTURY LINK

816-969-2200

INDEX OF SHEETS

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08	LANDSCAPE NOTES AND DETAIL SHEET



LOCATION MAP

APPROVED: DANIEL G. MILLER, PE LAMP RYNEARSON

DATE: 5/24/2023

RICHARD TUTTLE, CITY ENGINEER GRAIN VALLEY, MISSOURI

DATE: 5/24/2023

SENIOR TRAFFIC SPECIALIST

SPIRE

OMAHA, NEBRASKA 14710 W. DODGE RD, STE. 100 (402)496.2498

FORT COLLINS, COLORADO 4715 INNOVATION DR., STE, 100 (970)226,0342 KANSAS CITY, MISSOURI 9001 STATE LINE RD., STE. 200 (816)361.0440

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MISSOURI CERTIFICATE OF AUTHORITY NO. F01294734

QUANTITIES

		T	Te.: . 10 .
Item No.	Item Description	Unit	Estimated Quantity
1	Mobilization	LS	1
2	Sidewalk (4")(Concrete)(KCMMB4K)	SF	S34
3	Playground Curb (Concrete)(KCMMB4K)	LF	262
4	Poured-In-Place Playground Surfacing With PC Concrete Base (KCMMB4K)	SF	489\$
S	Play Equipment 'Age S-12 Play Structure'	EA	1
6	Play Equipment 'Age 2-S Play Structure'	EA	1
7	Play Equipment 'Rotating Disc'	EA	1
8	Play Equipment 'Spica 1'	EA	1
9	Play Equipment 'Cone Twister Small'	EA	1
10	Play Equipment 'Fairy Tale Seesaw'	EA	1
11	3-Bay Swing with (2) multi-user, (1) tot, and (1) saucer	EA	1
12	Swing 'Type-Accessible'	EA	1
13	12" Storm Sewer (HDPE)	LF	98
14	6" Storm Sewer (HDPE)	LF	62
15	Inlet (18") (Area) (Nyoplast Heavy Duty Inline Dome Grate Assy)	EA	1
16	Inlet (12") (NDS Low Profile Catch Basin)	EA	1
17	Junction Box (12")(Nyoplast Heavy Duty w/Solid Cover)	EA	1
18	Pipe Connection to Existing Structure	EA	1
19	Inlet Apron (6")(Concrete)(KCMMB4K)	SF	28
20	Grading	LS	1
21	Erosion Control	LS	1
22	Construction Staking	LS	1
Γο be Con	npleted by City	<u> </u>	
23	Clear And Grub Tree (12" To 24" DBH) (To be completed by City)	EA	3
24	6' W Bench (To be completed by City)	EA	3
25	Site Signage (To be completed by City)	EA	1
26	Rain Garden (To be completed by City)	SF	8S
27	Clearing, Grubbing, Demolition (To be completed by City)	LS	1
28	ADA Signage and Pavement Marking (To be completed by City)	LS	1
20	Condition Formal Condition and A Mulabian (To be accorded by City)	1.0	1

LS

29 | Seeding, Fertilization and Mulching (To be completed by City)

PROJECT COORDINATES

ALL COORDINATES ARE REPORTED AS GROUND VALUES.

GRID COORDINATES WERE DERIVED FROM THE MODOT VRS NETWORK, MISSOURI STATE PLANE, WEST ZONE, NAD83.

GRID COORDINATES WERE SCALED FROM CONTROL POINT #1 USING TRIMBLE ACCESS.

N: 1038393.952

E: 2874544.340 Z: 796.178

COMBINED S.F. GRID TO GROUND: 1.0000832889 COMBINED S.F. GROUND TO GRID: 0.9999167180

BEARINGS IN THIS DRAWING ARE BASED ON GRID NORTH

GENERAL CONSTRUCTION NOTES:

- 1. PRIOR TO THE BEGINNING OF CONSTRUCTION THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING TO ADDRESS ANY ISSUES. THIS MEETING SHALL INCLUDE THE PROJECT MANAGER, CONSTRUCTION SITE FOREMAN, CITY PROJECT MANAGER, ENGINEER AND IMPACTED UTILITY COMPANIES.
- 2. THE CONTRACTOR SHALL THOROUGHLY REVIEW AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND SPECIAL CONDITIONS OF THE CONTRACT DOCUMENTS PRIOR TO BEGINNING CONSTRUCTION ON THIS PROJECT.
- 3. CONTRACTOR SHALL, AT THE TIME OF THE PRE-CONSTRUCTION CONFERENCE, SUBMIT A DETAILED PLAN FOR HANDLING TRAFFIC DURING CONSTRUCTION AND NON-WORKING HOURS FOR REVIEW AND APPROVAL BY THE CITY BEFORE COMMENCING ANY WORK. AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR SHALL CERTIFY THE TRAFFIC CONTROL PLAN.
- 4. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", 2009 EDITION AND ITS MOST CURRENT
- 5. LOCAL TRAFFIC ON ALL STREETS SHALL BE CARRIED THROUGH CONSTRUCTION, TO THE EXTENT PRACTICABLE. DETOURS SHALL ONLY BE USED WITH PRIOR APPROVAL FROM THE
- 6. MINIMUM 24HR. NOTICE TO COUNTY, CITY POLICE, PARAMEDIC UNITS, FIRE DISTRICTS, POST OFFICE AND SCHOOL DISTRICT SHALL BE GIVEN BY THE CONTRACTOR BEFORE CLOSING A PUBLIC THOROUGHFARE.
- 7. CONTRACTOR SHALL REMOVE AND REPLACE OR RELOCATE ALL STREET SIGNS LOCATED WITHIN THE LIMITS OF GRADING. (NO DIRECT PAY).
- 8. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AND OBTAINING APPROVAL OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PRIOR TO THE START OF CONSTRUCTION. A COPY OF THE SWPPP SHALL BE KEPT ON SITE AT ALL TIMES. MONITORING REPORTS AND ANY FIELD REVISIONS TO THE PLANS SHALL BE KEPT IN THE ON SITE REPORT. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTION AND MONITORING REPORTS.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EROSION AND SEDIMENT CONTROL BMPS (BEST MANAGEMENT PRACTICES) TO PREVENT SEDIMENT FROM REACHING PAVED AREAS, STORM SEWER SYSTEMS, DRAINAGE COURSES AND ADJACENT PROPERTIES. IN THE EVENT THE PREVENTION MEASURES ARE NOT EFFECTIVE, THE CONTRACTOR SHALL REMOVE ANY DEBRIS, SILT, OR MUD AND RESTORE THE RIGHT-OF-WAY, OR ADJACENT PROPERTIES TO ORIGINAL OR BETTER CONDITION.
- 10. EXCEPT WHERE NECESSARY TO INSTALL EROSION AND SEDIMENT CONTROL DEVICES, CLEARING ACTIVITIES SHALL NOT BEGIN UNTIL ALL PROPER EROSION AND SEDIMENT CONTROL DEVICES HAVE BEEN INSTALLED AND THE SOIL STABILIZED.
- 11. ALL CLEARING AND GRUBBING SHALL INCLUDE CLEARING OF TREES, STUMPS, BRUSH, FENCES, POSTS, MAILBOXES, SIGNS, EXISTING ASPHALT, CONCRETE, CURB, OTHER EXISTING SURFACE FEATURES, STORM SEWER PIPE, STORM SEWER STRUCTURES, OTHER STORM SEWER FEATURES AS NECESSARY BY CONTRACTOR, TO PERFORM THE WORK AS SHOWN ON PLANS. ALL DEBRIS, UNSUITABLE WASTE MATERIAL FROM THE STREET\YARDS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF SITE. DISPOSAL OF DEBRIS AND UNSUITABLE WASTE MATERIAL SHALL BE SUBSIDIARY TO CLEARING AND DEMOLITION.
- 12. THE CITY OF GRAIN VALLEY PUBLIC WORKS DEPARTMENT WILL HANDLE THE REMOVAL OF ALL EXISTING SIDEWALKS, TREES, PLAYGROUNDS AND FEATURES AS NECESSARY PRIOR TO CONSTRUCTION.
- 13. ALL WORK SHALL BE CONFINED WITHIN THE EASEMENTS AND/OR CONSTRUCTION LIMITS AS DIRECTED BY THE ENGINEER. ALL GRADING LIMITS SHOWN ARE APPROXIMATE AND MAY BE EXTENDED OR REDUCED AT THE DIRECTION OF THE ENGINEER.
- 14. CONTRACTOR TO REVIEW AND ADHERE TO ALL PROVISIONS ON EASEMENTS, IF ANY, PROVIDED TO CONTRACTOR BY OWNER
- 15. THE CONTRACTOR SHALL AT NO TIME LEAVE EQUIPMENT, MATERIALS OR DEBRIS AT LOCATIONS THAT COULD OBSTRUCT INTERSECTION SIGHT DISTANCE, IMPEDE PEDESTRIAN TRAFFIC, OBSTRUCT ANY EXISTING CAPACITY OF STORM SEWER SYSTEM, IMPEDE TRAFFIC, OR CAUSE FLOODING OR EROSION TO RESIDENCES.
- 16. DRIVEWAYS, SIDEWALKS, AND OTHER AREAS DAMAGED BY THE CONTRACTOR SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING BEFORE DAMAGE OCCURRED.
- 17. WHEN CONSTRUCTION OPERATIONS REQUIRE THE CLOSING OF PRIVATE DRIVEWAYS, WHETHER PERMANENT OR TEMPORARY, THE CONTRACTOR SHALL GIVE 48 HOURS NOTICE TO THE HOMEOWNER (BY DOOR HANGER) AND THE CITY. WHERE NECESSARY, CONTRACTOR SHALL CONSTRUCT TEMPORARY ACCESSIBILITY MEASURES (SUCH AS WHEEL CHAIR RAMPS) TO MEET THE NEEDS OF THE HOMEOWNER.
- 18. CONTRACTOR SHALL MINIMIZE THE TIME BETWEEN DRIVEWAY REMOVAL AND REPLACEMENT. CONTRACTOR SHALL PROVIDE ROCK FOR VEHICULAR ACCESS ON SAME DAY DRIVEWAY IS REMOVED UNLESS APPROVED BY CITY.
- 19. DRIVEWAYS SHALL BE REMOVED AND REPLACED TO EXISTING JOINTS, UNLESS OTHERWISE NOTED.
- 20. SAW CUTS FOR MATERIAL REMOVAL SHALL BE FULL DEPTH.
- 21. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITY LOCATIONS. CONTACT MO1CALL.COM AT LEAST 2 FULL BUSINESS DAYS PRIOR TO EXCAVATION.
- 22. THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO COMMENCEMENT OF WORK AND FOR MAKING HIS OWN VERIFICATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL NOTIFY ALL THOSE UTILITY COMPANIES WHICH HAVE FACILITIES IN THE VICINITY 72 HOURS PRIOR TO CONSTRUCTION. THE REMOVAL OF EXISTING OR ABANDONED UTILITIES IS SUBSIDIARY TO "CLEARING AND GRUBBING"
- 23. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AT ALL TIMES. RELOCATION OF EXISTING UTILITIES BY CONTRACTOR MUST BE COORDINATED WITH AND APPROVED BY THE UTILITY OWNER, CITY, AND ENGINEER. (NO DIRECT PAY).
- 24. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR REPLACEMENT OR TEMPORARY BRACING OF ALL UTILITY AND STREET LIGHTING POLES LOCATED WITHIN THE LIMITS OF GRADING. (NO DIRECT PAY).
- 25. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR RELOCATION OF ALL ELECTRIC, TELEPHONE, GAS, CABLE, WATER, AND OTHER FACILITIES LOCATED WITHIN THE LIMITS OF GRADING. (NO DIRECT PAY).
- 26. SPRINKLER SYSTEMS, WHERE ENCOUNTERED AND IN CONFLICT WITH GRADING, SHALL BE REMOVED TO THE LIMITS OF GRADING AND REPLACED AT NEW GRADE. CONTRACTOR SHALL REPLACE THE SPRINKLER SYSTEM WITH NEW MATERIALS MATCHING THE EXISTING SYSTEM AND SHALL INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SPRINKLER SYSTEMS IN CONFLICT WITH NEW SIDEWALK SHALL BE REMOVED AND PIPES CAPPED BEHIND SIDEWALK. CONTRACTOR SHALL CONTACT THE HOMEOWNER PRIOR TO ADJUSTING SPRINKLER SYSTEM. SPRINKLER SYSTEMS SHOWN ON PLANS WHERE KNOWN.
- 27. RESTORATION OF ANY AREAS OUTSIDE OF THE GRADING LIMITS THAT ARE DISTURBED DURING UTILITY RELOCATION, SHALL BE REPAIRED BY THE UTILITY. CONTRACTOR SHALL COORDINATE SAID WORK.
- 28. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING WHERE EXISTING FENCE IS TO BE REMOVED AND REPLACED, IF REQUIRED BY HOMEOWNER. TEMPORARY FENCE SHALL BE CHAIN LINK. PROVIDE GATES, AS REQUIRED TO MATCH EXISTING.
- 29. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING FENCES TO EQUAL OR BETTER CONDITION AS NECESSARY WHERE CALLED OUT IN THE PLANS.
- 30. CITY SHALL REMOVE ALL TREES MARKED WITH AN "X". (NO DIRECT PAY).
- 31. CITY SHALL REMOVE SHRUBS AND OTHER LANDSCAPING, AS REQUIRED, WITHIN THE GRADING LIMITS.
- 32. CONTRACTOR SHALL PROVIDE A MINIMUM OF 2 WEEKS WRITTEN NOTICE TO HOMEOWNERS PRIOR TO COMMENCEMENT OF CLEARING, GRUBBING AND GRADING ACTIVITIES. TRANSPLANTING WILL BE THE RESPONSIBILITY OF THE HOMEOWNER.
- 33. CONTRACTOR SHALL SOD AND FERTILIZE ALL DISTURBED AREAS. RESTORATION OF ANY AREAS OUTSIDE OF THE GRADING LIMITS THAT ARE DISTURBED DURING UTILITY RELOCATION, SHALL BE REPAIRED BY THE UTILITY. CONTRACTOR SHALL COORDINATE SAID WORK.
- 34. TREE ROOTS 18" BELOW GROUND SHALL BE CLEAN CUT PRIOR TO TRENCH EXCAVATION.
- 35. CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AND IS RESPONSIBLE FOR ANY DEWATERING NECESSARY FOR CONSTRUCTION. DEWATERING SHALL BE SUBSIDIARY TO
- 36. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL PROPERTY CORNERS/MONUMENTS AND SECTION CORNERS. ANY PROPERTY CORNER AND/OR SECTION CORNERS DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A REGISTÉRED LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI AT THÉ CONTRACTORS EXPENSE, UNLESS OTHERWISE NOTED.
- 37. CONTRACTOR TO STAKE RIGHT OF WAY PRIOR TO CONSTRUCTION.
- 38. ALL CONCRETE SHALL BE KCMMB4K.
- 39. ALL GRADING REQUIRED TO CONSTRUCT THIS PROJECT AND RESTORE PROPERTIES IS SUBSIDIARY TO OTHER BID ITEMS.
- 40. THE CONTRACTOR SHALL EXCAVATE AHEAD OF TRAIL CONSTRUCTION TO POSITIVELY ESTABLISH UTILITY CONFLICTS.
- 41. REMOVAL OF EXISTING ASPHALT TRAIL IS SUBSIDIARY TO STORM SEWER CONSTRUCTION.
- 42. THE CITY OF GRAIN VALLEY PUBLIC WORKS DEPARTMENT WILL HANDLE ALL GRADING, PLANTING AND SOIL RESTORATION ASSOCIATED WITH THE PARK IMPROVEMENTS.

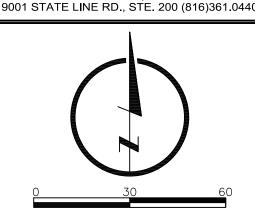
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—— ss ——— ss ———	SANITARY SEWER		AC UNIT	斑	FIBER OPTIC PULLBOX	СО	SAN CLEANOUT	X 1020.12	SPOT ELEVATION
——— ST ———— ST ———	STORM SEWER		BENCH		FIRE HYDRANT	S	SANITARY MANHOLE	FL	FLOWLINE
CACA	CABLE		BENCHMARK	7	FLAGPOLE	•	SECTION CORNER	I.E.	INVERT ELEVATION
FO FO	FIBER OPTICS	0	BUSH	8	GAS CURB STOP	4	SIGN	мн	MANHOLE
G G	GAS	*	CONIFEROUS TREE	©	GAS METER		STOP SIGN	FES	FLARED END SECTION
		\sim	CONTINUE SYMBOL	8	GAS WARNING SIGN	(D)	STORM MANHOLE	1 23	TEARLE LIND SECTION
TT	TELEPHONE	Δ	CONTROL POINT		GRATE INLET	•	STORM PIPE END	PVC	POLYVINYL CHLORIDE
	WATER	③	DECIDUOUS TREE		HANDICAP SIGN		TELEPHONE PEDESTAL	VCP	VITRIFIED CLAY PIPE
	RIGHT OF WAY	©S)	DOWN SPOUT	&	HANDICAP SYMBOL	Z	TELEPHONE PULLBOX	CPP	CORRUGATED PLASTIC PIPE
	PROPERTY LINE	Ē	ELECTRIC METER	Ø	LIGHT POLE	0	TREE DECIDUOUS		
	EASEMENT	E	ELECTRIC TRANSFORMER	ŏ	LIGHT YARD	W	WATER METER	CONC	CONCRETE
· 905 ·	EXISTING MAJOR CONTOUR	UV	UTILITY VAULT		MONUMENT FOUND	X	WATER VALVE	ASPH	ASPHALT
· 905 ·	FYISTING MINOR CONTOUR		FES - FLARED END SECTION	Ø	POWER POLE	<u> </u>	WELL	XX	CHAIN LINK FENCE
303	EXISTING MINOR CONTOOR							. ~ .	VEGETATION LINE

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---DANIEL G. NUMBER ' E-024308 . - - - . 5/24/2023

DANIEL G. MILLER PE - 024308

ARMSTRONG PARK CITY OF GRAIN VAL

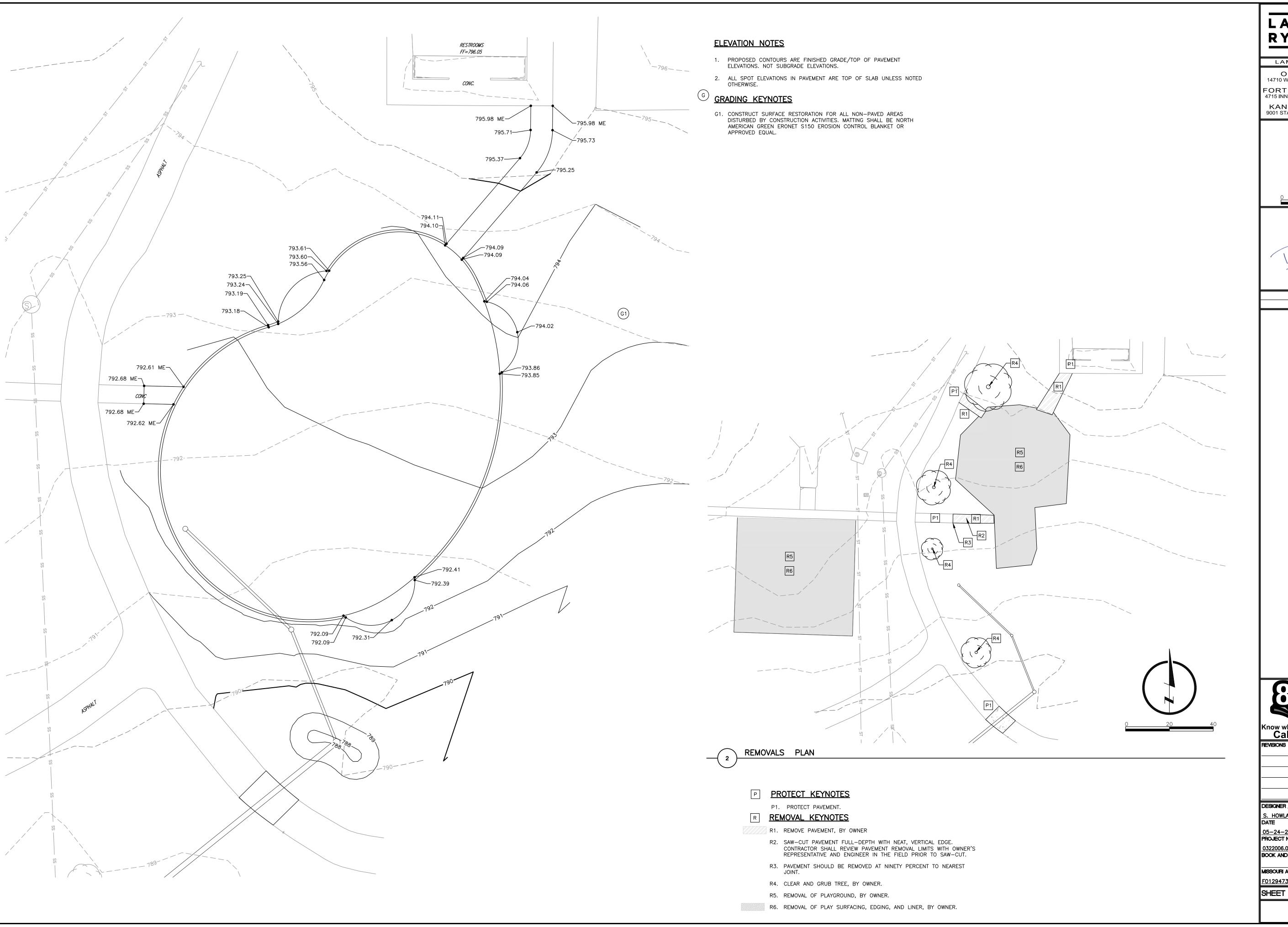
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DESIGNER / DRAFTER S. HOWLAND / J. MCMURRY 05-24-2023

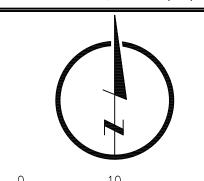
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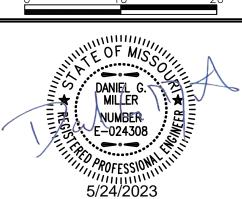
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ARMSTRONG PARK IMPROVEMENTS CITY OF GRAIN VALLEY, MISSOURI

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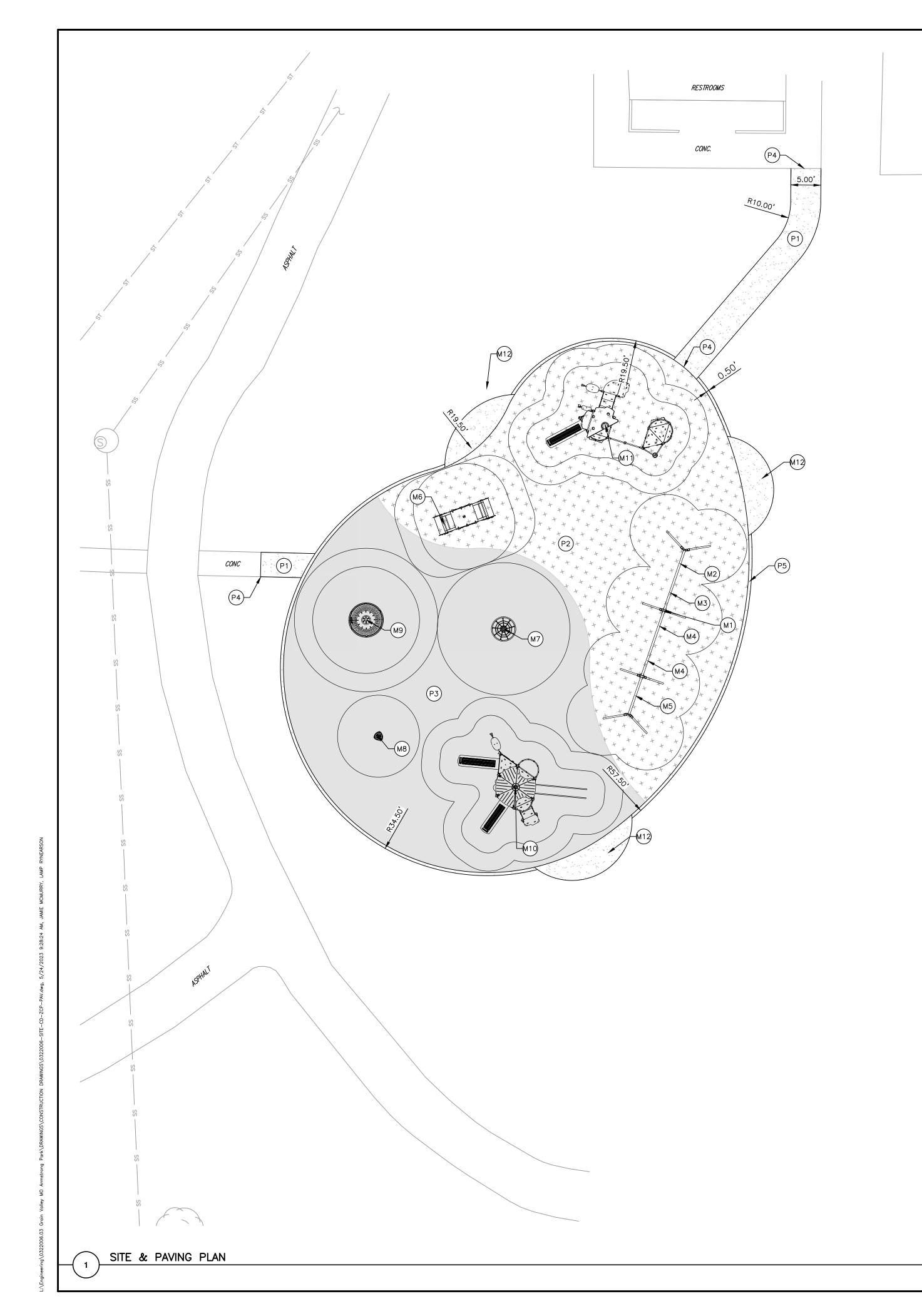
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0322006.03 BOOK AND PAGE

MISSOURI AUTHORIZATION NUMBER

03



P PAVING

P1. CONSTRUCT SIDEWALK 4" THICK CONCRETE KCMMB4K

P2. INSTALL POURED—IN—PLACE DURA PLAY SURFACING SYSTEM, COLOR (50% BLACK—DP00, 25% BLUE—DP20, AND 25% LIGHT BLUE—DP22. WITH PC CONCRETE BASE, SEE POUR—IN—PLACE SAFETY SURFACING DETAIL ON SHEET 06.

P3. INSTALL POURED—IN—PLACE DURA PLAY SURFACING SYSTEM, COLOR (50% BLACK—DP00, 25% BEIGE—DP30, AND 25% YELLOW—DP41. WITH PC CONCRETE BASE, SEE POUR—IN—PLACE SAFETY SURFACING DETAIL ON SHEET 06.

- P4. CONSTRUCTION 1/2" EXPANSION JOINT WITH POLYSULFIDE SEALANT BETWEEN BACK OF
- P5. PLAYGROUND CURB CONCRETE KCMMB4K, SEE PLAYGROUND CURB DETAIL ON SHEET

MISCELLANEOUS

- M1. CONSTRUCT 5-SEAT FRAME H:2.5M, STEEL MODEL #KSW935-CUSTOM, BY KOMPAN. CONTRACTOR SHALL SUBMIT LAYOUT DIMENSIONS AND SAMPLES FOR OWNER APPROVAL PRIOR TO ORDERING/INSTALLING. SEE WWW.KOMPAN.COM/EN/US FOR MORE INFORMATION.
- M2. INSTALL BABY AND TODDLER SEAT MODEL #SW990024, BY KOMPAN. CONTRACTOR SHALL SUBMIT LAYOUT DIMENSIONS AND SAMPLES FOR OWNER APPROVAL PRIOR TO ORDERING/INSTALLING. SEEWWW.KOMPAN.COM/EN/US FOR MORE INFORMATION.
- M3. INSTALL INCLUSIVE SEAT MODEL #SW990205, BY KOMPAN. CONTRACTOR SHALL SUBMIT LAYOUT DIMENSIONS AND SAMPLES FOR OWNER APPROVAL PRIOR TO ORDERING/INSTALLING. SEEWWW.KOMPAN.COM/EN/US FOR MORE INFORMATION.
- M4. INSTALL DUO SWING SEAT MODEL #SW990201, BY KOMPAN. CONTRACTOR SHALL SUBMIT LAYOUT DIMENSIONS AND SAMPLES FOR OWNER APPROVAL PRIOR TO ORDERING/INSTALLING. SEEWWW.KOMPAN.COM/EN/US FOR MORE INFORMATION.
- M5. INSTALL SHELL NEST, 47IN WIDE MODEL #SW990111, BY KOMPAN. CONTRACTOR SHALL SUBMIT LAYOUT DIMENSIONS AND SAMPLES FOR OWNER APPROVAL PRIOR TO ORDERING/INSTALLING. SEEWWW.KOMPAN.COM/EN/US FOR MORE INFORMATION.
- M6. CONSTRUCT FAIRY TALE SEESAW MODEL #M17601-12p, BY KOMPAN. CONTRACTOR SHALL SUBMIT LAYOUT DIMENSIONS AND SAMPLES FOR OWNER APPROVAL PRIOR TO ORDERING/INSTALLING. SEEWWW.KOMPAN.COM/EN/US FOR MORE INFORMATION.
- M7. CONSTRUCT CONE TWISTER SMALL MODEL #COR203101-1112, BY KOMPAN. CONTRACTOR SHALL SUBMIT LAYOUT DIMENSIONS AND SAMPLES FOR OWNER APPROVAL PRIOR TO ORDERING/INSTALLING. SEEWWW.KOMPAN.COM/EN/US FOR MORE INFORMATION.
- M8. CONSTRUCT SPICA 1 #GXY8014, BY KOMPAN. CONTRACTOR SHALL SUBMIT LAYOUT DIMENSIONS AND SAMPLES FOR OWNER APPROVAL PRIOR TO ORDERING/INSTALLING. SEEWWW.KOMPAN.COM/EN/US FOR MORE INFORMATION.
- M9. CONSTRUCT ROTATING DISC #GXY959010-3717, BY KOMPAN. CONTRACTOR SHALL SUBMIT LAYOUT DIMENSIONS AND SAMPLES FOR OWNER APPROVAL PRIOR TO ORDERING/INSTALLING. SEEWWW.KOMPAN.COM/EN/US FOR MORE INFORMATION.
- M10. CONSTRUCT AGE 5-12 PLAY STRUCTURE: MEGA DECK, UPPER DECK-CLASSIC PE SLIDE, IN-GROUND 90CM MODEL # PCM111831-0901. CONTRACTOR SHALL SUBMIT LAYOUT DIMENSIONS AND SAMPLES FOR OWNER APPROVAL PRIOR TO ORDERING/INSTALLING. SEEWWW.KOMPAN.COM/EN/US FOR MORE INFORMATION.
- M11. CONSTRUCT AGE 2-5 PLAY STRUCTURE: TRENDSETTER SKY-INGROUND MODEL # PCE205531-0901. CONTRACTOR SHALL SUBMIT LAYOUT DIMENSIONS AND SAMPLES FOR OWNER APPROVAL PRIOR TO ORDERING/INSTALLING. SEEWWW.KOMPAN.COM/EN/US FOR MORE INFORMATION.
- M12. PARK BENCH PROVIDED BY CITY.

<u>SIDEWALK NOTES — PRIVATE</u>

1. SIDEWALK SUBGRADE TO A DEPTH OF 6 INCHES AND TO A WIDTH OF 6 INCHES OUTSIDE OF SIDEWALK EDGES SHALL BE COMPACTED AS SPECIFIED IN THE COMPACTION REQUIREMENTS TABLE. (SEE SHEET 06)

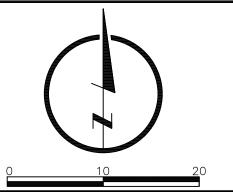
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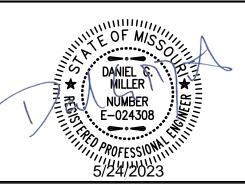
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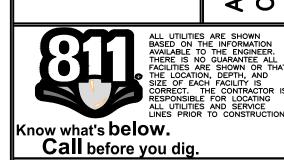




DANIEL G. MILLER
PE - 024308

NG PLAN SHEET

ARMSTRONG PARK IMPROVEMENTS CITY OF GRAIN VALLEY, MISSOURI



DESIGNER / DRAFTER

S. HOWLAND / J. MCMURRY
DATE

05-24-2023
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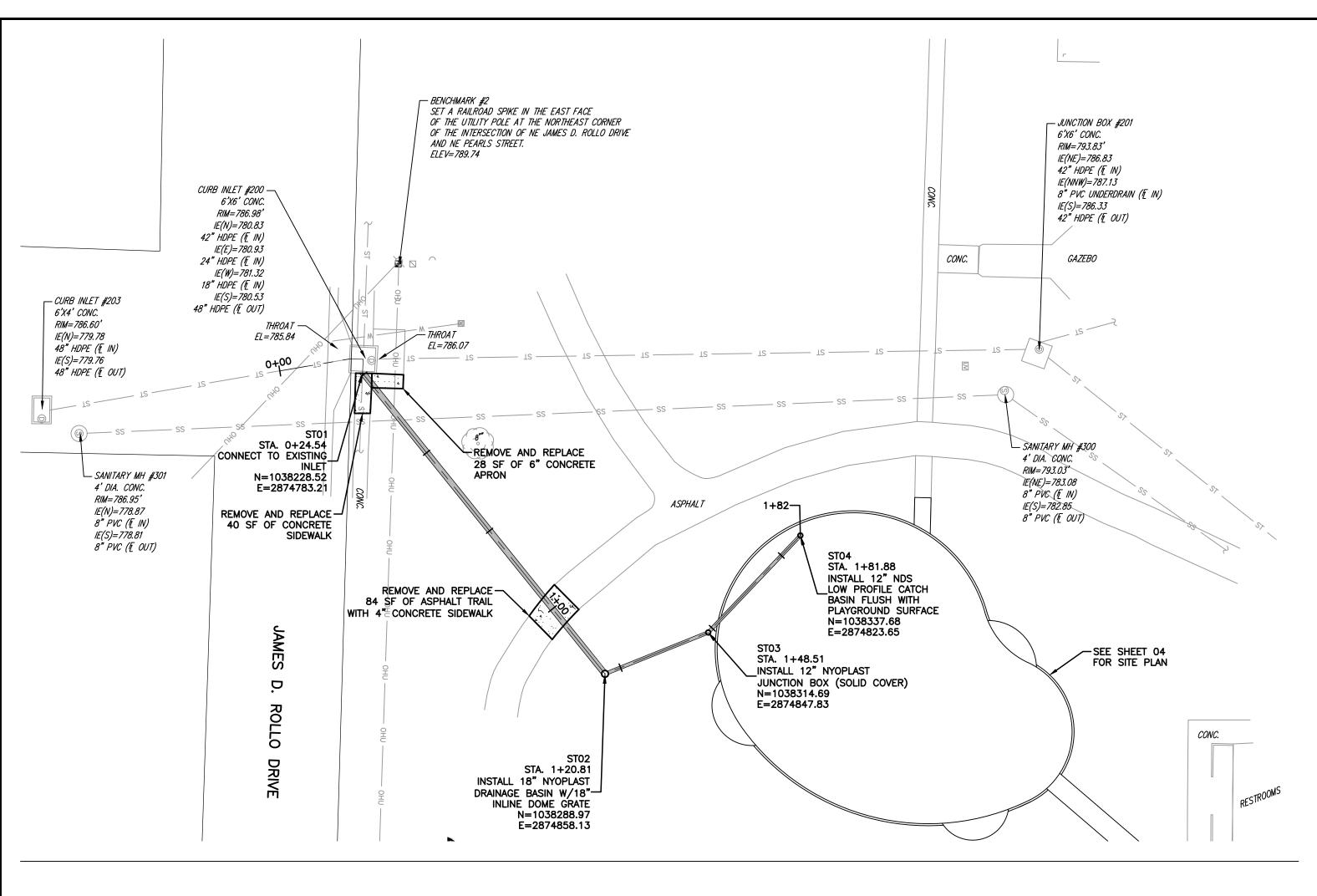
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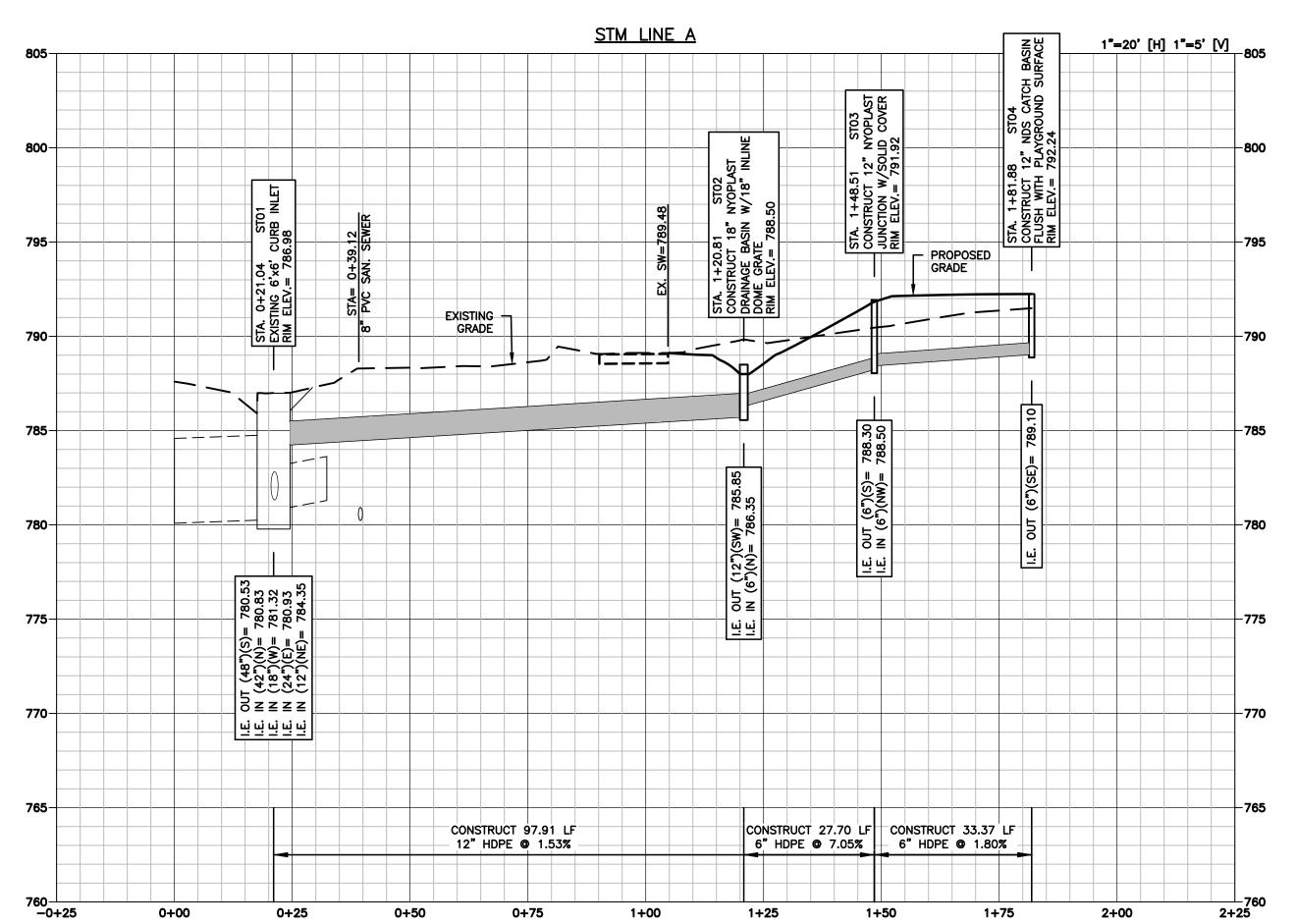
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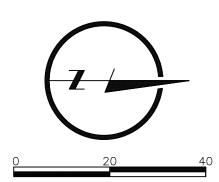
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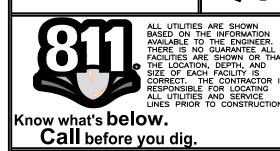
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/PROFILE SHEET

STORM

ARMSTRONG PARK IMPROVEMENTS CITY OF GRAIN VALLEY, MISSOURI



REVISIONS

DESIGNER / DRAFTER
S. HOWLAND / J. MCMURRY

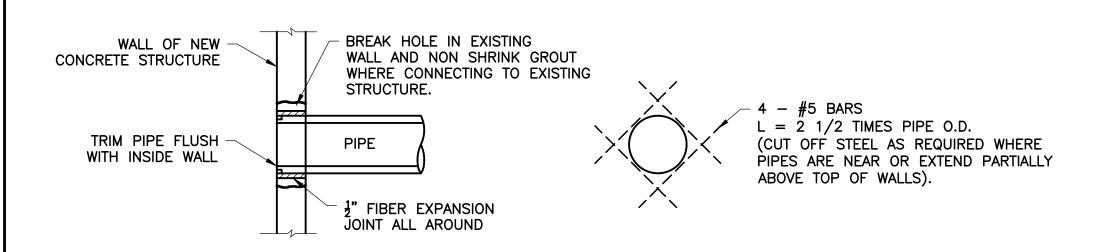
DATE
05-24-2023
PROJECT NUMBER

0322006.03 BOOK AND PAGE

MISSOURI AUTHORIZATION NUMBER
F01294734
SHEET

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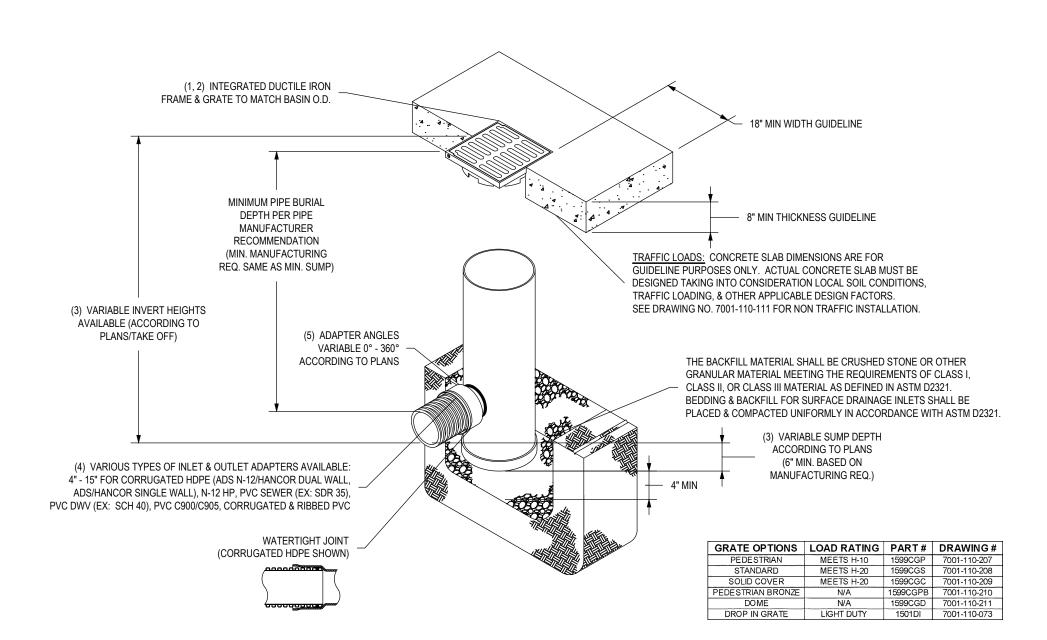
ering\0322006.03 Grain Valley MO Armstrong Park\DRAWINGS\BASE MODELS\0322006.03-BASE.dwg, 5/24/2023 9:27:24 AM, JAMIE MCMURRY, LAMP RYNEARSON



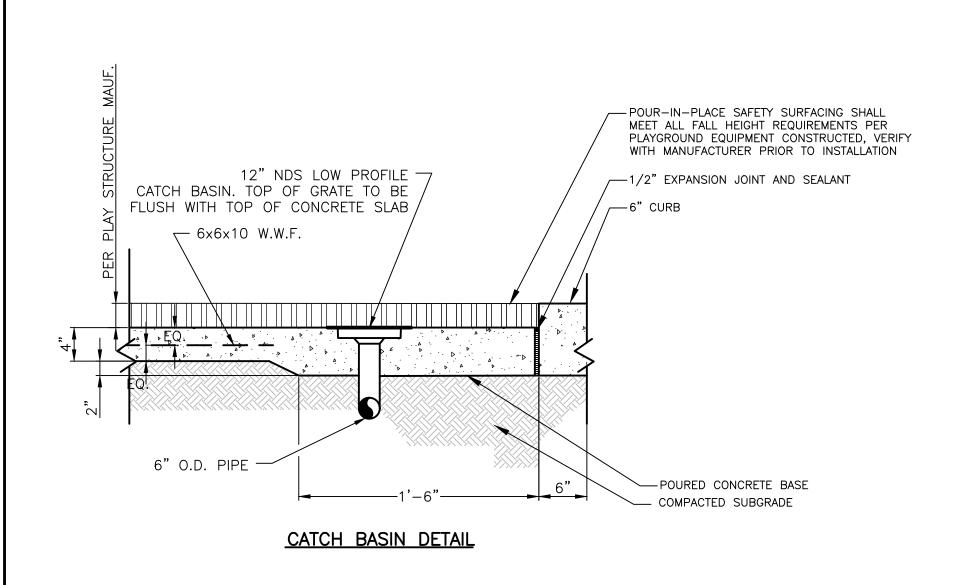
AT EXISTING STRUCTURE

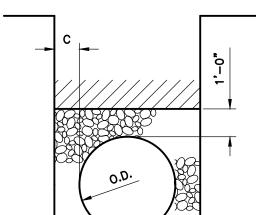
ADD'NL. REINF. AT NEW CONC. **STRUCTURE**

PIPE CONNECTION TO CONCRETE STRUCTURE (NO DIRECT PAYMENT)



18" NYOPLAST DRAINAGE BASIN





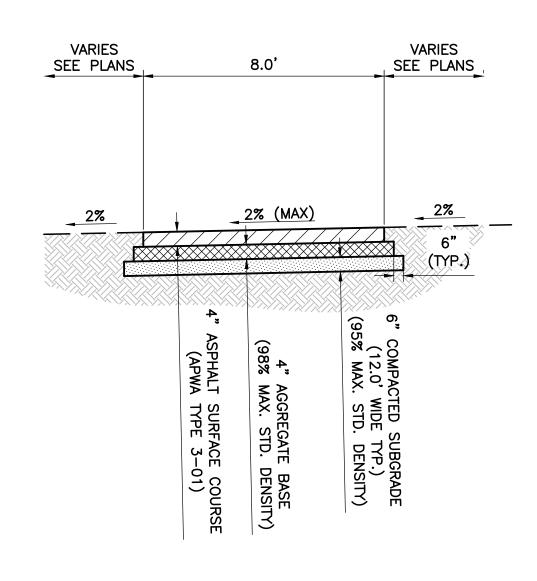
FLEXIBLE PIPE BEDDING

- 1. A & C = ABSOLUTE MIN. CLEARANCE FROM PIPE WALL TO ANY PROJECTION OF TRENCH BOTTOM OR WALL.
 - A = (EARTH EXCAVATION) 2", CLASS B.A = (ROCK EXCAVATION) 6", CLASS B.
- 2. W = TRENCH WITH AT A LEVEL 6" ABOVE TOP OF PIPE.
 - W = MINIMUM OF 16" PLUS (O.D., O.S. OR S).W = MAXIMUM OF 24" PLUS (O.D., O.S. OR S).
- 3. WHERE SCREEDING SHOWN, FORM BED WITH SCREED CUT TO EXACT SHAPE OF PIPE BOTTOM.
- 4. = GRANULAR FILL

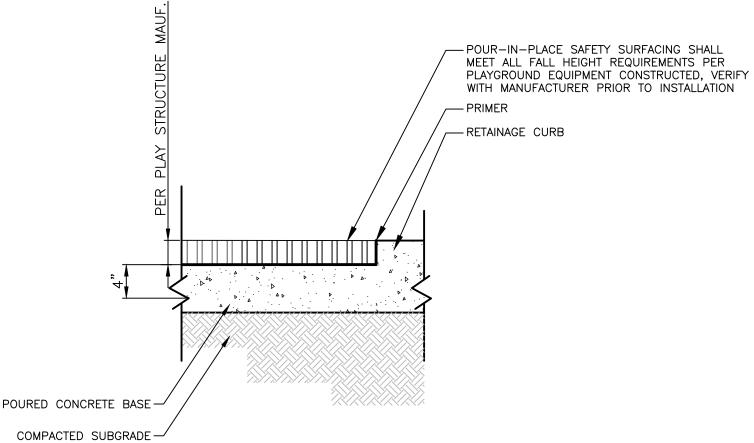
C = 8" MINIMUM

- = BACKFILL TO TOP OF PIPE SEE SPECIFICATIONS
- 6. ALL BEDDING CLASS B.
- 7. SEE SPECIFICATIONS FOR TRENCH BOTTOM STABILIZATION, IF REQUIRED.
- 8. SEE ROADWAY TRENCH DETAILS IF IN ROADWAY.

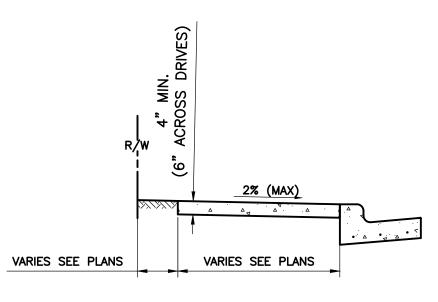
PIPE EMBEDMENT DETAILS



ASPHALT TRAIL DETAIL

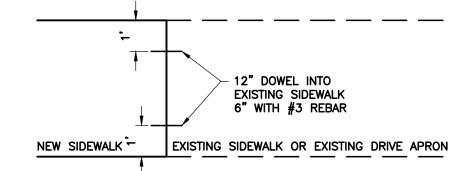


POUR-IN-PLACE SAFETY SURFACING WITH RETAINAGE CURB DETAIL

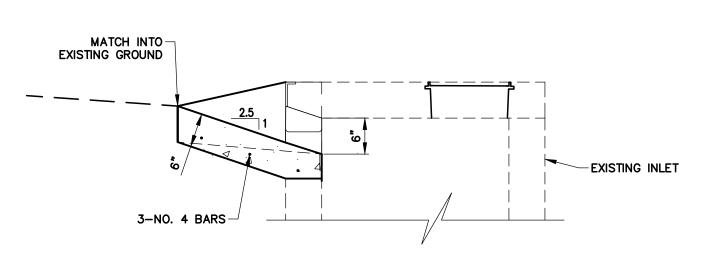


STANDARD SIDEWALK

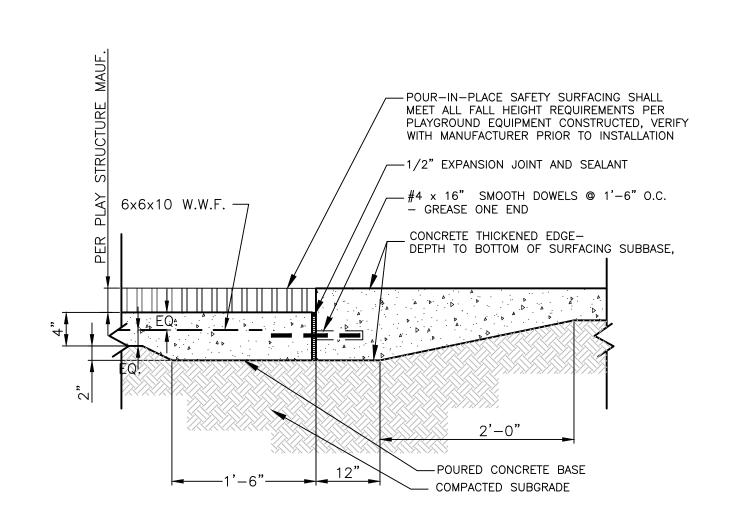
- 1. TYPE "A" JOINT SPACING 4'-0" CENTER TO CENTER ON WIDTH ALONG SIDEWALK. 5'-0" ON 5' WIDE SIDEWALKS.
- 2. TYPE "B" JOINTS WHERE WALK ABUTS JUNCTION OF EXISTING WALK, CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES, AND 250' CENTERS MAXIMUM.



NEW TO EXISTING SIDEWALK



AREA INLET APRON

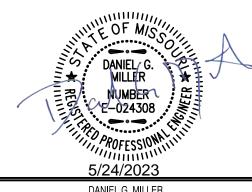


POUR-IN-PLACE SAFETY SURFACING AT CONCRETE SIDEWALK DETAIL

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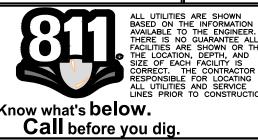
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SHEET



PLANT SCHEDULE						
CODE	BOTANICAL NAME	COMMON NAME	PLANTING SIZE	HEIGHT	WI	
DECI	DUOUS TREES					
AR	ACER RUBRUM 'RED SUNSET'	SUNSET RED MAPLE	2" CAL.	45'	3	
SHK	UBS AND PERENNIALS					
CODE	BOTANICAL NAME	COMMON NAME	PLANTING SIZE	HEIGHT	WI	
CODE	BOTANICAL NAME SCHIZACHYRIUM SCOPARIUM 'THE BLUES'	COMMON NAME THE BLUES LITTLE BLUESTEM		HEIGHT		
			SIZE		2'	
SH	SCHIZACHYRIUM SCOPARIUM 'THE BLUES'	THE BLUES LITTLE BLUESTEM	SIZE 1 GAL.	3'	WI 2' 1'-2'	

SURFACE RESTORATION SCHEDULE

	MULCHED PLANTER BEDS — CONSTRUCT PLANTING BEDS WITH TRIPLE SHREDDED HARDWOOD MULCH AT CONSISTENT DEPTH THROUGHOUT BED (2" MINIMUM — 3" MAXIMUM DEPTH). ALL PLANTER BEDS SHALL HAVE SCARIFIED AND CONDITIONED SOILS, SEE SCARIFIED AND CONDITIONED SOIL NOTES, SHEET 08.
V V V	NON-IRRIGATED LAWN SEED - SUPERTURF I LS BY UNITED SEEDS, INC. (WWW.UNITEDSEED.COM) OR
ψ ψ ψ ψ	APPROVED EQUAL. INSTALL PER SUPPLIER'S SPECIFICATIONS. COORDINATE SEEDING TIME, SEEDING RATE,
Ψ Ψ Ψ Ψ	AND INSTALLATION METHOD WITH SUPPLIER. INSTALL EROSION CONTROL MATTING ON ALL AREAS RECEIVING SEED. MATTING SHALL BE NORTH AMERICAN GREEN ERONET S150 EROSION CONTROL BLANKET OR
V V V	APPROVED EQUAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS. ALL AREAS RECEIVING SEED SHALL
V V V	HAVE SCARIFIED SOILS, SEE SCARIFIED AND CONDITIONED SOIL NOTES, SHEET 08.

NOTE: ALL IMPROVEMENTS INDICATED ON THIS SHEET SHALL BE PERFORMED BY OWNER.

L LANDSCAPE

L1. NATURAL EARTH EDGE, SEE DETAIL 3, SHEET 08.

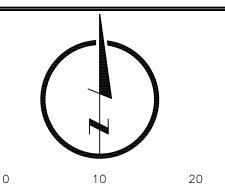
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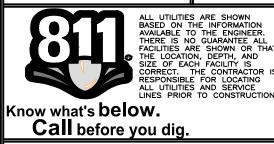
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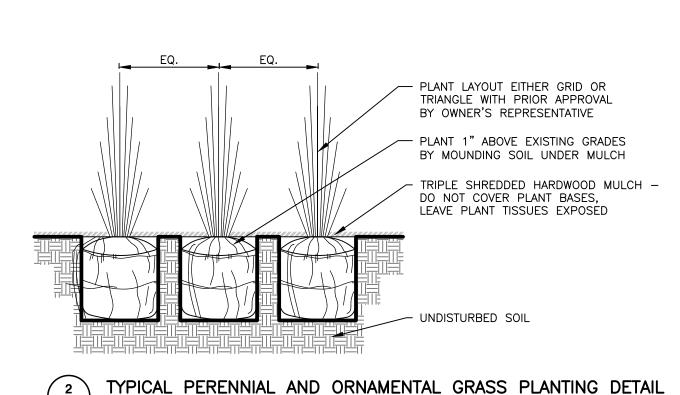
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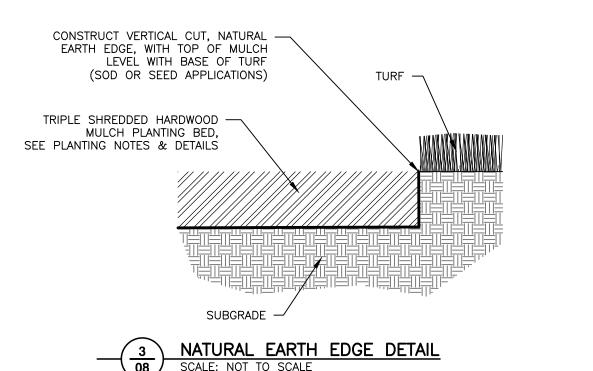
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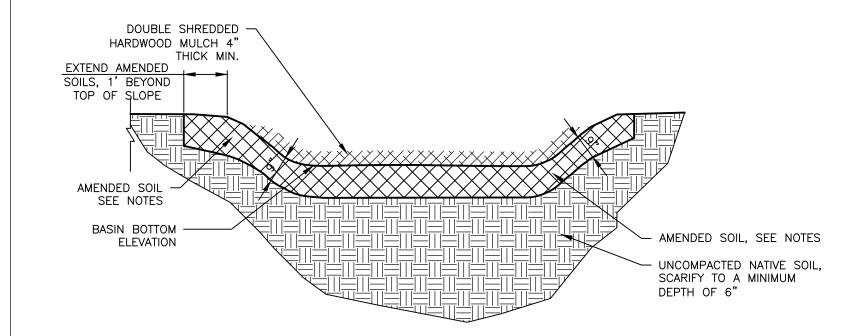
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HARDWOOD MULCH

- 1. MULCH SHALL BE DOUBLE OR TRIPLE SHREADED HARDWOOD MULCH.
- 2. MULCH SHALL BE WELL AGED (6 MONTHS MIN.)
- SUBSTITUTES INCLUDING ROCK, BEAN HUSES, CYPRUS OR CEDAR, OR ANOTHER NON-HARDWOOD MULCH WILL NOT BE ACCEPTED.

AMENDED SOIL

- AMEND TOP 9" OF BIORETENTION GARDEN AS SHOWN ON SECTION A-A (EXCLUDING INFILTRATION
- USE A PEAT MOSS OR ORGANIC COMPOST MEETING THE REQUIREMENTS SPECIFIED IN THE ENGINEERED SOIL SECTION ON THIS SHEET. OMAGROW, OR APPROVED EQUAL, IS ALSO ACCEPTABLE FOR THIS
- 3. APPLY AMENDMENT AT A MINIMUM RATE OF 40 LBS. PER 100 S.F.

GENERAL NOTES

- 1. CONTRACTOR TO VERIFY LOCATION OF ALL PROPOSED AND EXISTING VAULTS, ELECTRICAL DUCT BANKS, MANHOLES, CONDUIT AND PIPING, DRAINAGE STRUCTURES AND OTHER UTILITIES PRIOR TO COMMENCING WORK.
- 2. CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY PROPOSED LANDSCAPE IMPROVEMENTS WHEN CONFLICTS EXIST BETWEEN LANDSCAPE IMPROVEMENTS AND EXISTING OR PROPOSED UTILITIES OR SITE FEATURES SUCH AS WALKS, ROADS, BUILDINGS OR
- 3. VERIFY LOCATION OF ALL BUILDINGS, WALLS, ROADS AND CURBS AFFECTING LANDSCAPE SCOPE OF WORK WITH ARCHITECTS AND CONTRACTOR ENGINEER'S DRAWINGS.
- 4. ALL WORK PERFORMED WITHIN THE DRIP LINE OF TREES DESIGNATED "EXISTING TREES TO REMAIN" SHALL BE HAND LABOR.
- 5. REFERENCE TO NORTH REFERS TO TRUE NORTH, REFERENCE TO SCALE IS FOR FULL-SIZED DRAWINGS ONLY. DO NOT SCALE FROM REDUCED DRAWINGS.
- 6. DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.
- 7. WHERE NOT SHOWN ON THE PLANTING PLANS, SEE CONTRACTOR ENGINEER'S AND ARCHITECT'S DRAWINGS FOR BUILDING FOUNDATIONS SETBACKS, BOUNDARIES, SUBSURFACE AND ABOVE GRADE UTILITIES.

TREE PLANTING NOTES

- 1. PROVIDE MATCHING SIZES AND FORMS FOR EACH SPECIES OF TREE INSTALLED ON GRID OR SPACED EQUALLY IN ROWS AS SHOWN ON DRAWINGS. ALIGN TREES ACROSS WALKS. ADJUST SPACING AS NECESSARY, SUBJECT TO REVIEW BY THE LANDSCAPE
- 2. FORM A MINIMUM 30 INCH WATERING BASIN AROUND ALL TREES NOT INSTALLED IN LAWN OR PAVED AREAS. FILL BASIN WITH TRIPLE SHREDDED HARDWOOD MULCH PER TREE PLANTING DETAILS, THIS SHEET.
- 3. REPLACEMENT OF UNACCEPTABLE PLANT MATERIAL: THE CONTRACTOR'S RESPONSIBILITY FOR REPLACEMENT OF UNACCEPTABLE PLANT MATERIAL SHALL EXTEND FOR TWO (2) YEARS AFTER ALL PLANT MATERIAL IS ACCEPTED BY THE ENGINEER.
- 4. MULCH: THE CONTRACTOR SHALL PLACE TRIPLE SHREDDED HARDWOOD MULCH IN A CONSISTENT THICKNESS AS NOTED IN THE PLANTING DETAILS. ANY MULCH PLACED IN EXCESS OF THE REQUIREMENTS SHALL BE AT THE CONTRACTORS EXPENSE. CHIPS
- 5. IN LIEU OF IRRIGATION, ALL NEWLY PLANTED TREES TO RECEIVE "TREEGATOR SLOW RELEASE WATERING BAG" BY SPECTRUM PRODUCTS, INC. OR OWNER APPROVED EQUAL. CONTRACTOR SHALL INSTALL AND FILL WATERING BAGS PER MANUFACTURERS SPECIFICATIONS.

PLANTING NOTES

- 1. INSTALL ALL TREES A MINIMUM OF FOUR (4) FEET FROM BACK OF CURB, EDGE OF WALL, OR PAVING.
- 2. THE LOCATION OF ALL TREES SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO FINAL INSTALLATION.
- 3. PLANT NAMES ARE ABBREVIATED ON THE DRAWINGS. SEE PLANT LIST FOR KEY AND CLASSIFICATION.
- 4. PLACE A LAYER OF TRIPLE SHREDDED HARDWOOD MULCH IN A CONSISTENT THICKNESS AS NOTED IN THE PLANTING DETAILS ON ALL PLANTING AREAS AT 2" MINIMUM AND 3" MAXIMUM DEPTH. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL. CHIPS OR BARK MULCH ARE NOT ALLOWED.
- 5. LOCATION OF ALL PLANTING IS DIAGRAMMATIC. DO NOT WILLFULLY LOCATE PLANTINGS WHERE CONFLICTS EXIST WITH UTILITIES OR THE BUILDING.
- 6. EXISTING AND IMPORTED SOIL FOR PLANTING AREAS SHALL BE FREE FROM CHEMICALS, CONSTRUCTION DEBRIS AND TRASH, ROCKS AND OTHER MATERIAL LARGER THAN ONE INCH IN DIAMETER.
- 7. APPLY GRANULAR PRE-EMERGENT WEED CONTROL TO AREAS TO RECEIVE SHRUBS, GROUNDCOVERS, AND NON-LAWN ORNAMENTAL PLANTING AFTER INCORPORATING SOIL AMENDMENTS. THE CONTRACTOR SHALL PLACE TRIPLE SHREDDED HARDWOOD MULCH AT ALL LANDSCAPED ISLANDS NOT RECEIVING SOD.
- 8. PLANT QUANTITIES ARE SHOWN FOR THE CONVENIENCE TO THE CONTRACTOR. IF THERE ARE DISCREPANCIES BETWEEN THE PLAN AND NOTES, THE PLANS SHALL GOVERN.
- 9. ALL PLANTED AREAS TO BE AMENDED PER AN AGRICULTURAL/SOIL SUITABILITY TEST, PAID FOR BY OWNER. FOR BID PURPOSES CONTRACTOR SHALL ESTIMATE SPREADING SOIL AMENDMENT AT THE RATE OF 6 CUBIC YARDS PER 1,000 SQUARE FEET. TILL INTO THE TOP OF SOIL TO A MINIMUM DEPTH OF 6". RAKE TO A SMOOTH, EVEN SURFACE PER THE GRADING PLANS.

SEED NOTES

- MAINTENANCE: BEGIN MAINTENANCE OF ALL SEED AREAS IMMEDIATELY FOLLOWING INSTALLATION. MAINTENANCE TO INCLUDE WATERING, WEEDING, AND MOWING. MOW WHEN TURF HAS GROWN TO A HEIGHT BETWEEN 3 AND 4 INCHES. MOW TO A HEIGHT OF 2 TO 2-1/2 INCHES. MAINTENANCE PERIOD TO BE 30 DAYS. CONTRACTOR TO NOTIFY OWNER ONE WEEK PRIOR OF THE CONCLUSION OF THE MAINTENANCE PERIOD.
- 2. LAWN AND TURF SEED, WHETHER IRRIGATED OR NON-IRRIGATED, SHALL BE INTERAGENCY BLUETAG CERTIFIED AND SHALL HAVE A MINIMUM GERMINATION RATE OF NINETY (90) PERCENT AND A PURITY OF NINETY-EIGHT (98) PERCENT, SEE PLANT SCHEDULE ON SHEET 07.
- 3. ALL SEEDED AREAS SHALL RECEIVE FERTILIZER AND EROSION CONTROL MATTING, SEE SURFACE RESTORATION SCHEDULE ON SHEET
- 4. RESEEDING FOR DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS: THE CONTRACTOR WILL RESEED ALL AREAS DISTURBED DURING THE COURSE OF CONSTRUCTION. THIS ITEM WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCIDENTAL TO THE PLANTING OF NEW VEGETATION.

SCARIFIED AND CONDITIONED SOIL NOTES

- 1. ALL NON-PAVED AND NON-BUILDING DISTURBED AREAS SHALL BE SCARIFIED BY COMPLETELY BREAKING UP THE SOIL TO A MINIMUM DEPTH OF 12".
- 2. TILL AND CONDITION TOP 6" OF ALL AREAS TO RECEIVE LANDSCAPING.
- 3. USE AN ORGANIC COMPOST MEETING THE REQUIREMENTS SPECIFIED BELOW.
- 4. A THREE INCH DEEP LAYER OF COMPOST SHALL BE PLACED ON TOP OF ALL LANDSCAPE AREAS.
- 5. THE COMPOST SHALL BE TILLED INTO THE EXISTING SOIL TO A DEPTH OF SIX INCHES.

COMPOST NOTES

USE A COMPOST MEETING THE REQUIREMENTS OF THIS SECTION. MATERIAL SHALL BE WELL COMPOSTED, FREE OF WEED SEEDS AND STABILIZED WITH REGARD TO OXYGEN CONSUMPTION AND CARBON DIOXIDE GENERATION. COMPOST SHALL HAVE A MOISTURE CONTENT THAT HAS NO VISIABLE FREE WATER OR DUST PRODUCED WHEN HANDLING THE MATERIAL. ONE HUNDRED PERCENT OF THE MATERIAL MUST PASS THROUGH A HALF INCH SCREEN. MANUFACTURED INERT MATERIAL SHALL BE LESS THAN 1.0% BY WEIGHT.

ORGANIC MATTER CONTENT	MIN 35%	MAX 65%
C/N RATIO		25:1
PH	6.0	8.0
BULK DENSITY (LBS/CF)	40	50

WARRANTY:

THE CONTRACTOR SHALL WARRANTY PLANT MATERIALS FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION, AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTROL OF THE CONTRACTOR. WARRANTY COVERS A MAXIMUM OF ONE REPLACEMENT PER ITEM.

CONTRACTOR QUALIFICATIONS

1. THE CONTRACTOR SHALL BE CERTIFIED AND HAVE AT LEAST 3 YEARS OF LANDSCAPING EXPERIENCE INSTALLING SIMILAR TYPES OF

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