PUBLIC STREET IMPROVEMENT PLANS FOR

BLUE PARKWAY

SECTION 11 TOWNSHIP 47 N, RANGE 31 W
CITY OF LEE'S SUMMIT
JACKSON COUNTY, MO

PROJECT INFORMATION:

LENGTH OF PROJECT: 2715 FT (0.514 MILES)

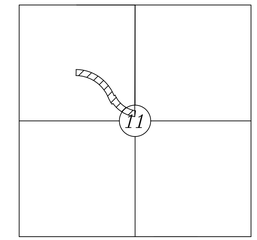
DESIGN DESIGNATION
POSTED SPEED: 40 MPH
CLASSIFICATION: COMMERCIAL COLLECTOR

LEGEND:

- NEW ASPHALT PAVEMENT
- NEW PORTLAND CEMENT CONCRETE SIDEWALK
- NEW PCC PAVEMENT
- NEW STAMPED PCC PAVEMENT
- CONCRETE SIDEWALK
- NEW TYPE CG-1 CURB & GUTTER
- NEW FLUSH CURB
- NEW CHAIN LINK FENCE
- PROPERTY LINE
- 950 — PROPOSED TOPO MAJOR
- 949 — PROPOSED TOPO MINOR
- 950 — EXISTING TOPO MAJOR
- EXISTING TOPO MINOR
- PROPOSED DRAINAGE AREAS
- C_X — EXISTING CABLE TV
- E_X — EXISTING ELECTRIC
- W_X — EXISTING WATER
- SD_X — EXISTING STORM SEWER
- PP — EXISTING POWER POLE
- G — EXISTING GAS METER
- W — EXISTING WATER METER

ABBREVIATION TABLE:

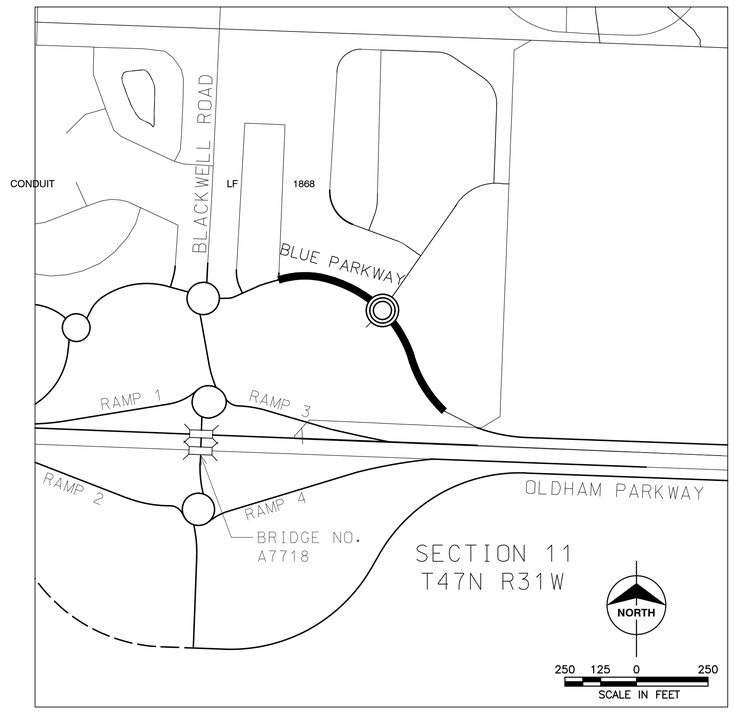
TC: TOP OF CURB
SW: SIDEWALK
PV: PAVEMENT
FV: FIELD VERIFY
ME: MATCH EXISTING
CI: CURB INLET
FI: FIELD INLET
JB: JUNCTION BOX
MH: MANHOLE
PC: POINT OF CURVATURE
PT: POINT OF TANGENCY
PI: POINT OF INTERSECTION
BP: BEGIN PAVEMENT
EP: END PAVEMENT



S11 T47N R31W
SECTION MAP
N.T.S.

ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY
EARTHWORK (C-2047 F- 6851 NET- 4804 F)	CY	4804 F
2" TYPE 5-01 ASPHALTIC SURFACE	SY	7544
7" TYPE 5-01 ASPHALTIC BASE	SY	7544
4" MODOT CONCRETE MEDIAN STRIP	SY	475
8" KCMMB PCC STAMPED & COLORED	SY	554
6" MODOT TYPE 5 CRUSHED ROCK	SY	9276
4" MODOT TYPE 5 CRUSHED ROCK	SY	554
APWA TYPE CG-1 CURB AND GUTTER	LF	3267
MODOT TYPE E LOW PROFILE CURB	LF	456
APWA TYPE C1 CURB	LF	375
ADA RAMPS	EA	10
4" CONCRETE SIDEWALK	SY	1343
15" CLASS III RCP	LF	156
18" CLASS III RCP	LF	668
24" CLASS III RCP	LF	123
38"X24" HORIZ. ELLIPT. CLASS III RCP	LF	100
4' DIA MH	EA	1
8'X6' APWA TYPE 2 CI	EA	3
5'X3' APWA TYPE 2 CI	EA	3
5'X4' APWA TYPE 2 CI	EA	3
6'X3' APWA TYPE 2 CI	EA	1
5'X5' APWA FI	EA	1
6'X6' APWA FI	EA	1
CUSTOM FES	EA	1
DITCH CHECK	EA	1
INLET PROTECTION	EA	11
TEMPORARY CONSTRUCTION ENTRANCE	EA	1
SILT FENCE	LF	3808
TYPE 2 PREFORMED MARKING TAPE (GROOVED),24" (WHITE CROSSWALK)	EA	37
TYPE 2 PREFORMED MARKING TAPE (GROOVED), WHITE LEFT TURN ARROW	EA	5
4" SOLID DOUBLE WHITE STRIPING	LF	302
4" SOLID DOUBLE YELLOW STRIPING	LF	1006
4" DOUBLE YELLOW LANE LINES	LF	399
8" DOTTED WHITE STRIPING	LF	106
8" SOLID WHITE	LF	206
4" SOLID YELLOW	LF	1236
12" SOLID YELLOW	LF	28
R4-7 24"X30"	EA	4
R3-2 24"X24"	EA	1
W2-6 30"X30"	EA	2
W16-17P 24"X12"	EA	2
W13-1P 30"X36"	EA	2
W11-2 36"X36"	EA	8
W16-7P 21"X15"	EA	8
R1-2 48"X48"X48"	EA	8
R11-2 48"X30" ON TYPE 3 BARRICADES	EA	2
R6-1R 54"X18"	EA	4
R6-4 30"X24"	EA	4
SPECIAL SIGN #1 72"X12"	EA	2
SPECIAL SIGN #3 72"X12"	EA	1
W20-3 36"X36"	EA	2
OM4-1 18"X18"	EA	4
R11-4 60"X30" ON TYPE 3 BARRICADE	EA	1
ELECTRICAL JUNCTION BOX	EA	8
LIGHT POLES	EA	12



VICINITY MAP

INDEX

TOTAL NUMBER OF SHEETS = 50

MISSOURI ONE CALL SYSTEM, INC.
1-800-344-7483
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UTILITY CONTACTS:

LEE'S SUMMIT PUBLIC WORKS:	(816) 969-1800
SPECTRUM:	(888) 406-7063
EVERGY:	(816) 220-5213
SPIRE:	(816) 969-2200
CENTURYLINK:	(816) 320-4795
AT&T	(866) 921-4482

UTILITIES

THE INFORMATION CONCERNING LOCATIONS OF UNDERGROUND UTILITIES SHOWN HEREON WHICH ARE NOT VISIBLE FROM THE SURFACE, HAS BEEN TAKEN FROM THE RECORDS AND FIELD LOCATIONS OF THE VARIOUS UTILITY COMPANIES AND HAS NOT BEEN FIELD VERIFIED BY THIS COMPANY. THESE LOCATIONS ARE NOT TO BE CONSTRUED AS ACCURATE OR EXACT.

☐ **NOT FOR CONSTRUCTION**
☒ **FOR CONSTRUCTION**

POWELL CWM
ARCHITECTURE/ENGINEERING/SURVEYING
3200 S. State Route 291, Bldg. I, Independence, MO 64057
816.373.8800 | powellcwm.com

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Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

STATE OF MISSOURI
JADRIENNE S. RODELL-TIPTON
NUMBER PE-2021032725
PROFESSIONAL ENGINEER
10/17/24

Jadrienne S. Rodell-Tipton, PE
PE-2021032725 (MISSOURI #)

PREPARED FOR:
GRIFFIN RILEY
PROPERTY GROUP, LLC
21 SE 29th TERRACE,
LEE'S SUMMIT, MO 64082

PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

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PROJECT #: 22-2087
ISSUE DATE: 03-28-2023

PERMIT

COVER

GENERAL NOTES:

1. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION MANUAL AND THE PUBLIC WORKS DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI, IN CURRENT USAGE AND ALL SUPPLEMENTS THERE TO.
2. REFER TO THE CURRENT VERSION OF THE MODOT CONSTRUCTION MANUAL AND THE KC METRO CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION, STANDARD SPECIFICATIONS & INSTALLATION FOR THE GUIDING REFERENCE.
3. DO NOT SCALE THESE DRAWINGS.
4. NO GEOLOGICAL INVESTIGATION WAS PERFORMED ON THIS SITE.
5. THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING WORK.
6. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, BONDS, AND INSURANCE REQUIRED BY THE CITY.
7. THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND ARE APPROXIMATE ONLY. THEY DO NOT CONSTITUTE ACTUAL FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
8. CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL STATE AND LOCAL CODES.
9. THE CONTRACTOR SHALL GRADE AREAS TO PROVIDE POSITIVE DRAINAGE.
10. THE DEVELOPER / OWNER SHALL CONTROL EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION, AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.
11. ALL EXCESS MATERIAL SHALL BE REMOVED LEGALLY FROM SITE AND DISPOSED OF OFF SITE.
12. TRAFFIC CONTROL AND MAINTENANCE OF TRAFFIC DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PUBLIC WORKS DEPARTMENT.
13. EROSION CONTROL MEASURES SHALL BE PROVIDED AT ALL LOCATIONS WHERE DRAINAGE IS LEAVING THE PROJECT SITE. THE EROSION CONTROL PLAN SHOWS MINIMUM EROSION CONTROL MEASURES TO BE PROVIDED. ADDITIONAL SITE SPECIFIC MEASURES MAY BE NECESSARY AND SHALL BE PROVIDED BY THE DEVELOPER / OWNER, AT THE CONTRACTOR'S EXPENSE.
14. ANY EXISTING OR NEW STORM SEWER INLETS IN USE DURING DEMOLITION, GRADING OR CONSTRUCTION SHALL HAVE INLET PROTECTION.
15. THE CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS AND SHALL REPORT ANY DISCREPANCIES BETWEEN ACTUAL AND PLAN SHOWN CONDITIONS TO THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND QUANTITIES SHOWN ON THESE PLANS AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING ANY RELATED WORK.
17. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND INSTALLATIONS, INCLUDING SERVICE CONNECTIONS, IN ADVANCE OF EXCAVATION OR TRENCHING, AND PROTECT THE SAME AS REQUIRED TO MAINTAIN GOOD OPERATING CONDITION.
18. THE CONTRACTOR SHALL USE HIS OWN INFORMATION AND NOT RELY UPON ANY INFORMATION SHOWN ON THE DRAWINGS CONCERNING EXISTING UNDERGROUND INSTALLATIONS.
19. ANY DELAY, ADDITIONAL WORK, OR EXTRA COST TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE TO EXISTING UNDERGROUND INSTALLATIONS SHALL NOT CONSTITUTE A CLAIM FOR EXTRA WORK, ADDITIONAL PAYMENT, OR DAMAGES. ALL DAMAGE TO EXISTING UTILITIES INCLUDING SERVICE CONNECTIONS SHALL RE REPAIRED BY AND AT THE EXPENSE OF THE CONTRACTOR.
20. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND OBTAIN ALL NECESSARY INSPECTIONS THROUGHOUT THE CONSTRUCTION ACTIVITIES.
21. ALL EXCAVATION SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK EXCAVATION.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO ALL UTILITIES, STORM DRAINAGE, AND SIGNS AS REQUIRED, ALL WORK SHALL BE IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN THE CONTRACTOR'S CONTRACT WITH THE OWNER. ADDITIONALLY, ALL EXISTING UTILITY TOPS SHALL BE ADJUSTED TO FINISHED GRADE.
23. REMOVAL OF EXISTING PAVING AND/OR BORING AT THE CONTRACTOR'S DISCRETION SHALL BE INCLUDED AS A PART OF ALL UTILITY INSTALLATIONS WHERE APPLICABLE AT THE CONTRACTOR'S EXPENSE AS WELL AS REPLACEMENT/REPAIR OF ALL DISTURBED MATERIALS IN ACCORDANCE WITH LOCAL SPECIFICATIONS AND CODES.
26. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION SCHEDULES AND ACTIVITIES WITH THE APPROPRIATE UTILITY OWNER AND ADJACENT PROPERTY OWNERS TO MINIMIZE DISRUPTION TO ADJACENT PROPERTY OWNERS INCLUDING VEHICULAR ACCESS.
27. THE CONTRACTOR SHALL COORDINATE ALL UTILITY WORK, INCLUDING DEMOLITION AND REMOVAL, WITH THE APPROPRIATE UTILITY COMPANIES AND SERVICE PROVIDERS PRIOR TO DISCONTINUATION OF SERVICE. UTILITIES NOT NOTED FOR DEMOLITION SHALL REMAIN IN SERVICE AT ALL TIMES.
28. THE CONTRACTOR SHALL MAINTAIN EXISTING UTILITY SERVICE TO ALL ADJOINING PROPERTIES UNTIL THE RELOCATED UTILITIES ARE INSPECTED AND APPROVED.
29. ALL EXISTING UTILITIES SHALL BE REMOVED BACK TO THE CLOSEST STRUCTURE AND CAPPED AT THAT LOCATION UNLESS OTHERWISE INDICATED IN THESE PLANS.
30. REMOVE ALL TREES, GRASS, WEEDS, ROOTS, AND OTHER DEBRIS FROM THE AREA TO BE EXCAVATED, FILLED OR GRADED.
31. IF EXCAVATED MATERIAL IS UNSUITABLE FOR COMPACTION, AS DETERMINED BY THE GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL FURNISH SUITABLE BORROW.
32. ALL SLOPES, CUT OR FILL, SHALL BE GRADED TO MAXIMUM FINISH SLOPE OF THREE (3) FEET HORIZONTAL TO ONE (1) FOOT VERTICAL. NO GRADED SLOPE SHALL EXCEED 3:1 WITHOUT SPECIFIC SLOPE PLANTING OR REINFORCEMENT.
33. SITE SHALL BE GRADED TO ENSURE DRAINAGE OF WATER FROM ALL SURFACES.
34. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SURFACE AND GROUNDWATER CONTROL MEASURES.
35. GRADES NOT OTHERWISE INDICATED ON THE PLANS SHALL BE UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE GIVEN. ABRUPT CHANGES IN SLOPES SHALL BE WELL ROUNDED.
36. STORM DRAINAGE SYSTEMS WITHIN THE PROJECT AREA ARE TO BE COMPLETELY CLEANED AT THE COMPLETION OF THE PROJECT.
37. EXISTING TREES WHERE INDICATED SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY AND ALL GRADING ACTIVITIES TO REMAIN OUTSIDE THE DRIP LINES.
38. ALL TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO GRADING.
39. ALL SOILS UNDERCUTTING, OVER EXCAVATION, UNDER DRAIN INSTALLATION, AND ROCK FILLS SHALL BE DETERMINED AND DIRECTED BY THE SOILS ENGINEER.
40. FILL AREAS TO BE COMPACTED TO 95% STANDARD PROCTOR MINIMUM UNLESS OTHERWISE INDICATED BY GEOTECHNICAL ENGINEER.
41. UNLESS OTHERWISE INDICATED, ALL DISTURBED SOIL AREAS TO RECEIVE 6 INCHES OF TOPSOIL AND TO BE SEEDED AND MULCHED.
42. THE CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING, AND REPAIRING AS REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS, AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB.

STREETS & STORM SEWER:

1. SPECIFICATIONS, MATERIALS, AND CONSTRUCTION, SHALL BE PER THE REQUIREMENTS OF THE MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION MANUAL AND THE PUBLIC WORKS DEPARTMENT OF THE CITY OF LEE'S SUMMIT AND AS AMENDED BY THE ADOPTION OF CERTAIN PARTS OF THE KANSAS CITY METROPOLITAN CHAPTER APWA FOR STREET AND STORM SEWER SPECIFICATIONS AND STANDARDS.
2. HIGH DENSITY PLASTIC PIPE (HDPE) SHALL CONFORM TO A.A.S.H.T.O. M-294.
3. REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO ASTM DESIGNATION C-76-62T (CLASS III).
4. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES PRIOR TO INSTALLATION OF PAVEMENT. THIS IS INCIDENTAL TO OTHER WORK.
5. ALL DAMAGE TO EXISTING ASPHALT PAVEMENT TO REMAIN WHICH RESULTS FROM NEW CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIALS AT CONTRACTOR'S EXPENSE.
6. CURB RETURN RADIUS, 20' MINIMUM UNLESS SHOWN OTHERWISE.
7. THE TOP 6" OF ROADWAY SUBGRADE SHALL BE UNDERCUT AND COMPACTED TO MINIMUM 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE AS DETERMINED BY AASHO T99, METHOD B. CONTRACTOR SHALL PROVIDE FOR MOISTURE-DENSITY AND RELATIVE DENSITY TESTS ON ROADWAY SUBGRADE BY AN ACCEPTED TESTING FIRM. CONTRACTOR SHALL PROVIDE FOR IN-PLACE DENSITY TEST ON COMPACTED SUBGRADE BY AN ACCEPTED TESTING FIRM. IN-PLACE DENSITY TEST SHALL BE CONDUCTED EVERY 50-FEET ALONG THE PROPOSED ROADWAY. CONTRACTOR SHALL PROVIDE TESTING RESULTS TO ENGINEER.
8. ALL UTILITY CROSSING SHALL BE BACKFILLED WITH AB3 OR FLOWABLE FILL.
9. END SECTIONS FOR CONCRETE PIPE SHALL BE FLARED END SECTIONS OF THE PIPE MANUFACTURER'S STANDARD DESIGN, AND SHALL MEET ALL APPLICAPBLE REQUIREMENTS OF ASTM C 76 FOR CLASS II OR HIGHER CLASSES OF PIPE.
10. TOE WALLS: FLARED END SECTIONS FOR CONCRETE AND STEEL PIPE SHALL BE SET ON A CONCRETE TOE WALL CENTERED ON THE END OF THE SECTION. TOE WALLS SHALL BE 8" THICK X 24" DEEP X THE WIDTH OF THE END SECTION.
11. END SECTIONS FOR HDPE PIPE SHALL BE HDPE MEETING ASTM D3350 MINIMUM CELL CLASSIFICATION 213320C.
12. ALL CONCRETE SHALL BE KCMMB 4K.

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Certificates of Authority
Architecture: MO 318 / KS 73
Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

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JADRIENNE S. RODELL-TIPTON
NUMBER
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PROFESSIONAL ENGINEER
4/17/24

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NOTES

REFERENCE BEARING:

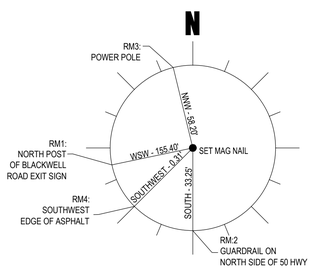
BEARINGS SHOWN HEREON ARE GRID BEARINGS BASED ON THE MISSOURI COORDINATE SYSTEM OF 1983, WEST ZONE AND TIED TO CONTROL MONUMENT "JA-45", 2003 ADJUSTMENT (N: 303273.664 METERS, E: 863885.886 METERS) OF THE MISSOURI GEOGRAPHIC REFERENCE SYSTEM, AS DEVELOPED FROM GPS OBSERVATIONS, A GRID FACTOR OF 0.9998986 WAS USED.

CONTROL POINTS

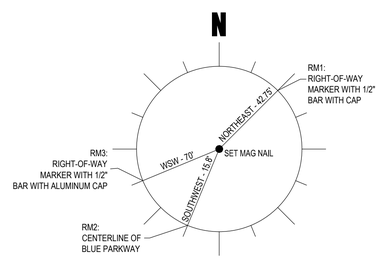
GRID FACTOR: 0.9998986

	GRID NORTHING	GRID EASTING	PROJECT COORDINATES GROUND NORTHING	PROJECT COORDINATES GROUND EASTING
5010	303545.249 METERS	866314.931 METERS	995982.362 US FT	2842523.131 US FT
5014	303650.743 METERS	866159.910 METERS	996328.506 US FT	2842014.483 US FT
5004	303830.372 METERS	865743.054 METERS	996917.900 US FT	2840646.708 US FT

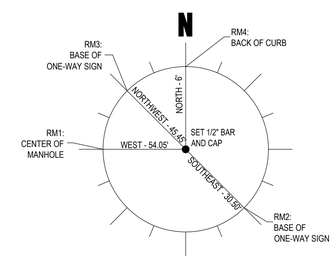
HORIZONTAL REFERENCE: STATE PLANE, WEST ZONE, NAD 1983



PROJECT COORDINATES
CONTROL POINT #5010
NORTHING: 995982.362
EASTING: 2842523.131
ELEVATION: 1026.10



PROJECT COORDINATES
CONTROL POINT #5014
NORTHING: 996328.506
EASTING: 2842014.483
ELEVATION: 1024.13



PROJECT COORDINATES
CONTROL POINT #5004
NORTHING: 996917.900
EASTING: 2806646.708
ELEVATION: 994.90

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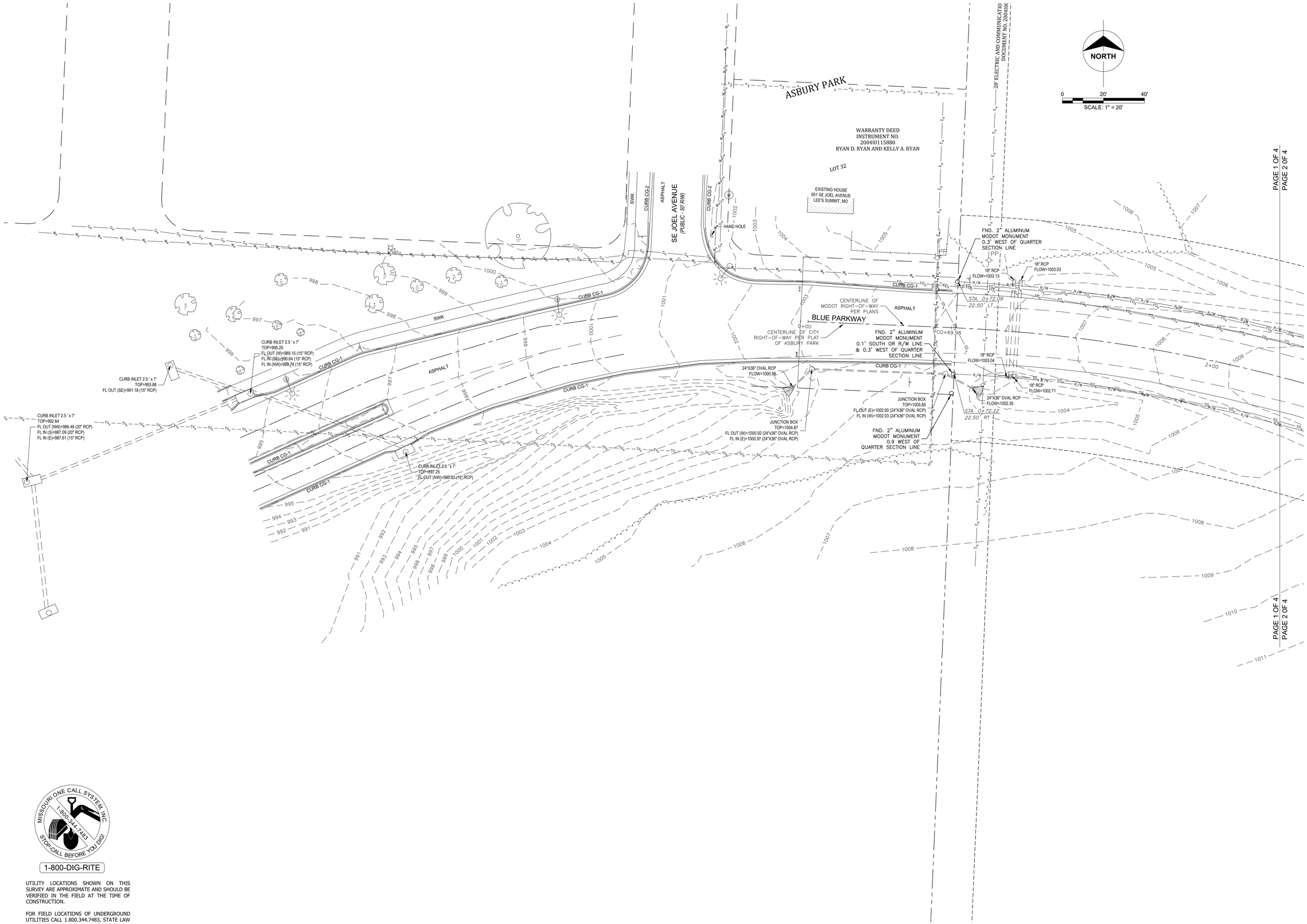

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1-800-DIG-RITE

UTILITY LOCATIONS SHOWN ON THIS SURVEY ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION.

FOR FIELD LOCATIONS OF UNDERGROUND UTILITIES CALL 1.800.344.7483, STATE LAW REQUIRES TWO DAYS ADVANCE NOTICE.

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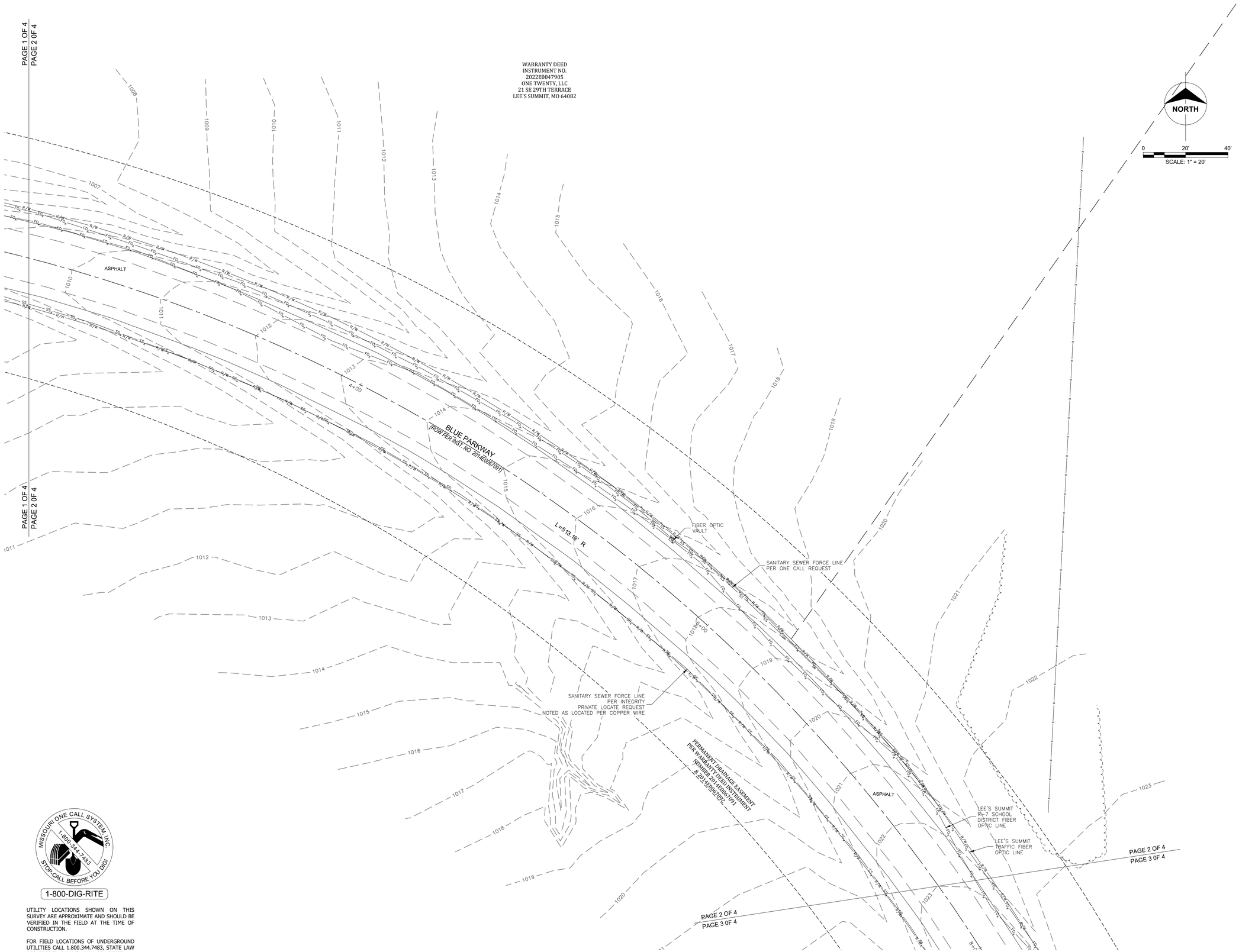
EXISTING CONDITIONS



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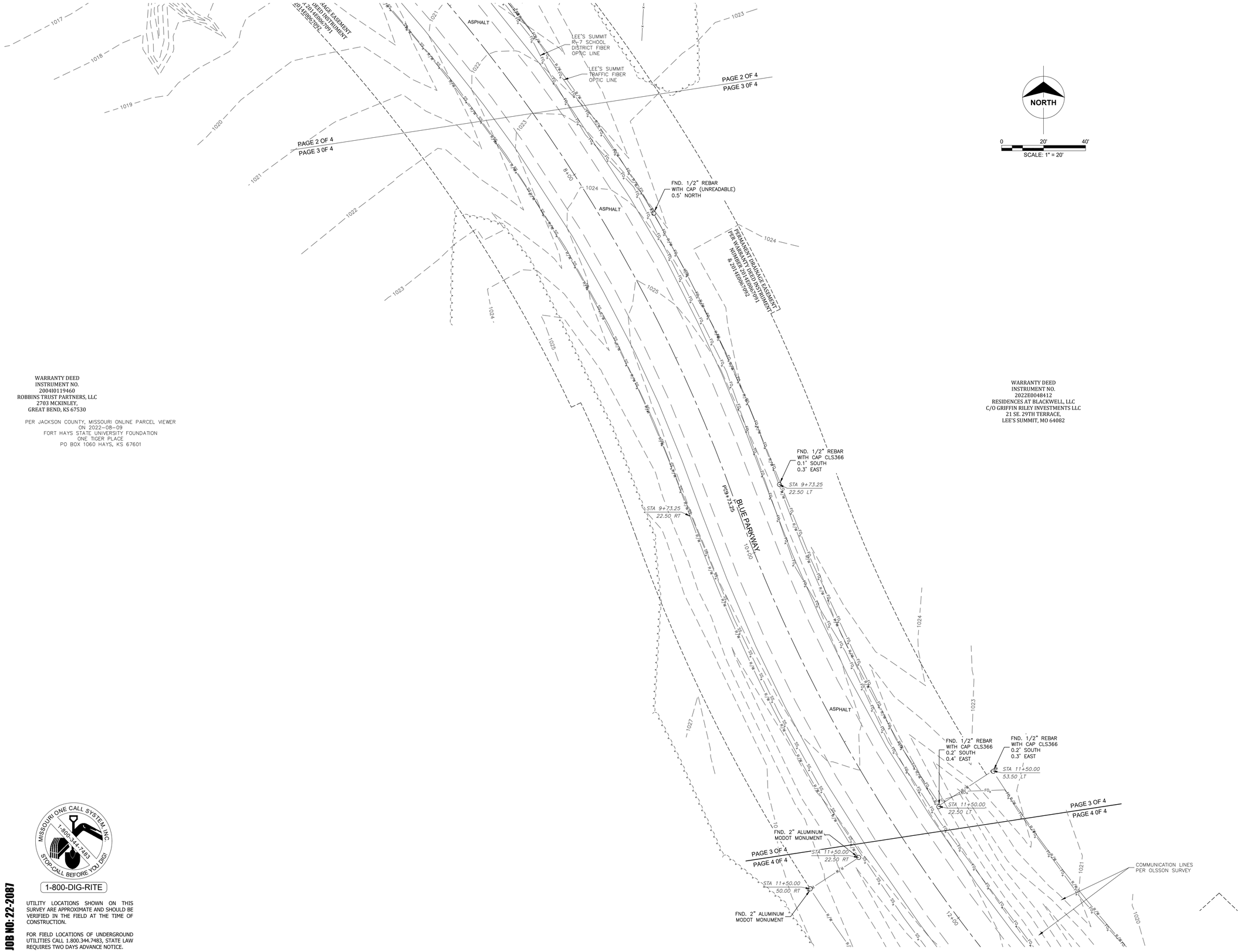

WARRANTY DEED
INSTRUMENT NO.
200410119460
ROBBINS TRUST PARTNERS, LLC
2703 MCKINLEY,
GREAT BEND, KS 67530

PER JACKSON COUNTY, MISSOURI ONLINE PARCEL VIEWER
ON 2022-08-09
FORT HAYS STATE UNIVERSITY FOUNDATION
ONE TIGER PLACE
PO BOX 1060 HAYS, KS 67601

WARRANTY DEED
INSTRUMENT NO.
2022E0048412
RESIDENCES AT BLACKWELL, LLC
C/O GRIFFIN RILEY INVESTMENTS LLC
21 SE. 29TH TERRACE.
LEE'S SUMMIT, MO 64082

MISSOURI ONE CALL SYSTEM, INC.
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STOP-CALL BEFORE YOU DIG!

1-800-DIG-RITE

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FOR FIELD LOCATIONS OF UNDERGROUND UTILITIES CALL 1.800.344.7483, STATE LAW REQUIRES TWO DAYS ADVANCE NOTICE.

JOB NO: 22-2087

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816.373.4800 | powellcwm.com

Certificates of Authority:
Architecture: MO 2010 / KS 23
Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

STATE OF MISSOURI
JADRIENNE S. RODELL-TIPTON
NUMBER PE-2021032725
PROFESSIONAL ENGINEER
10/17/24

Jadrienne S. Rodell-Tipton, PE
PE-2021032725 (MISSOURI #)

PREPARED FOR:
GRIFFIN RILEY
PROPERTY GROUP, LLC
21 SE 29th TERRACE,
LEE'S SUMMIT, MO 64082

PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

REVISIONS

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PROJECT #: 22-2087
ISSUE DATE: 03-28-2023

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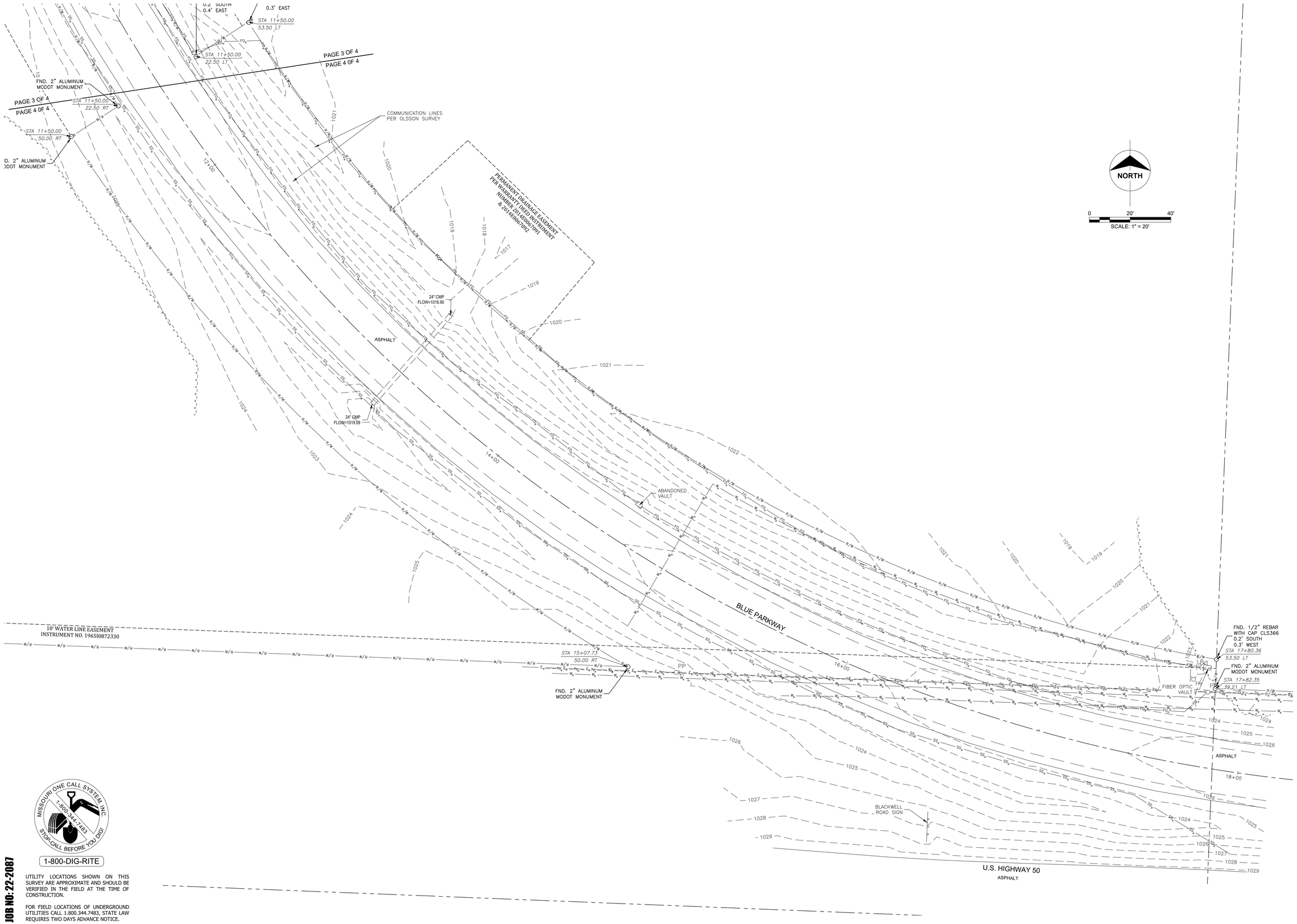
EXISTING CONDITIONS



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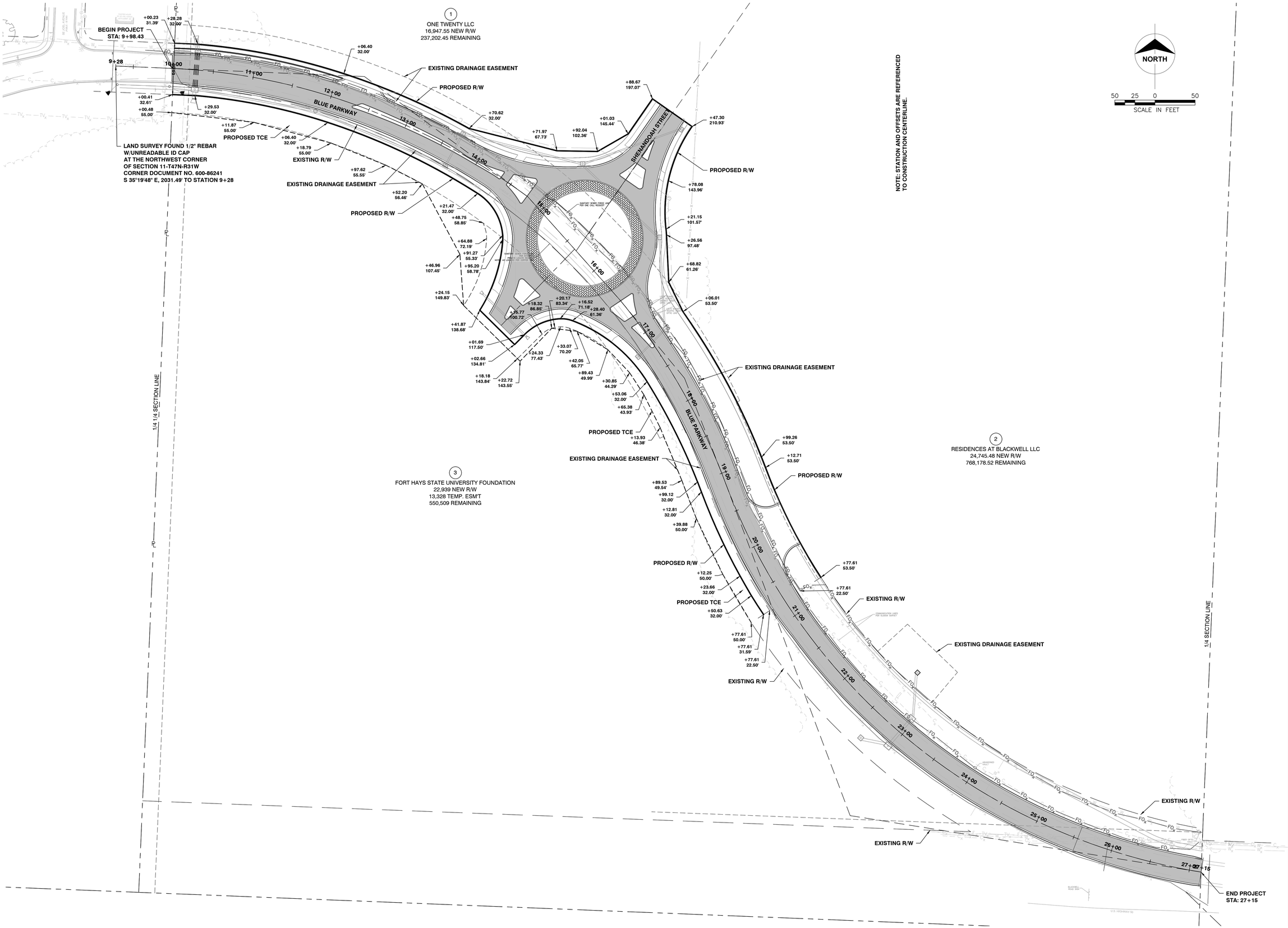

NOTE: STATION AND OFFSETS ARE REFERENCED TO CONSTRUCTION CENTERLINE.

NORTH

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SCALE IN FEET

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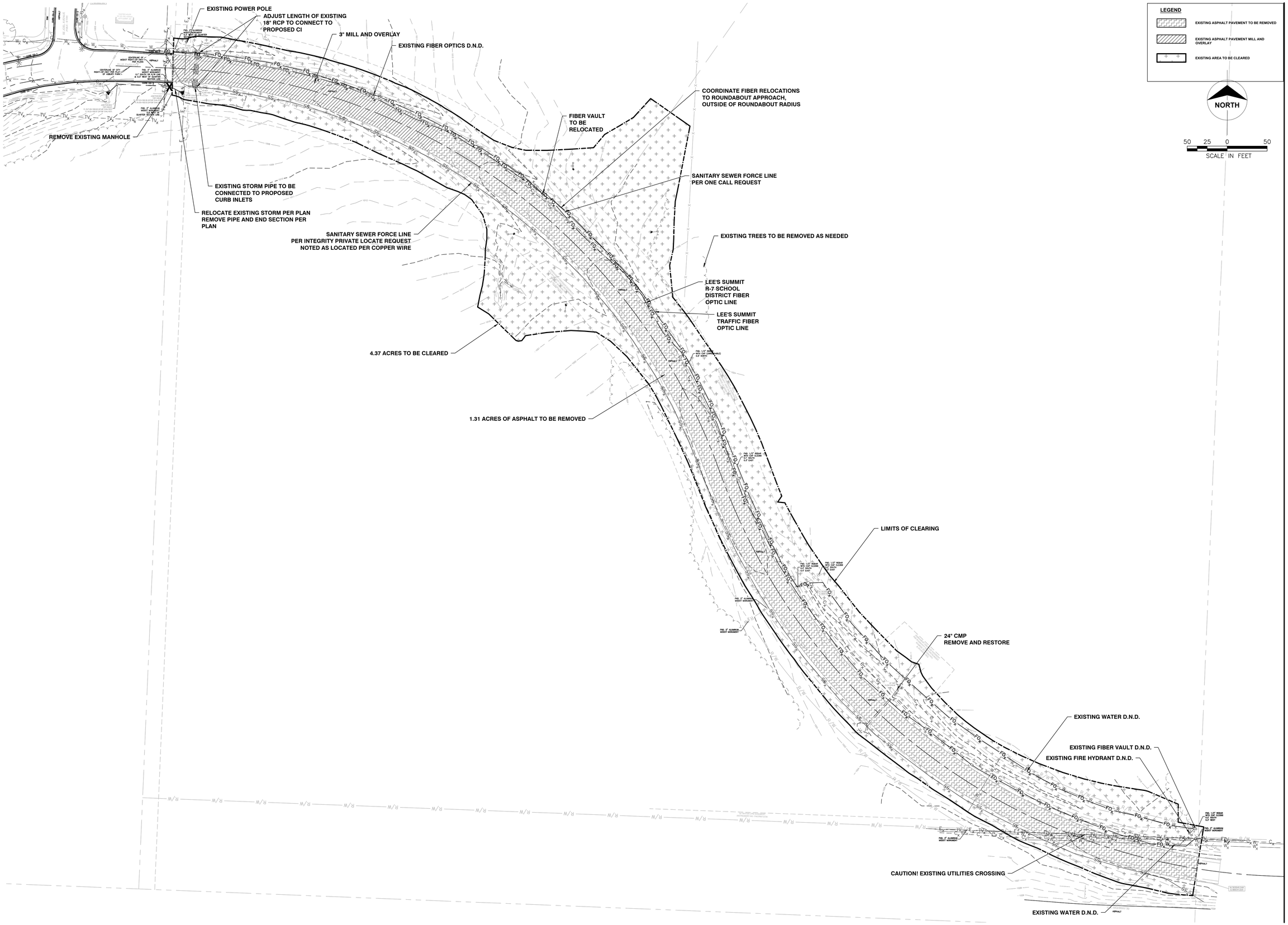
RIGHT-OF-WAY PLAN



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DEMOLITION PLAN

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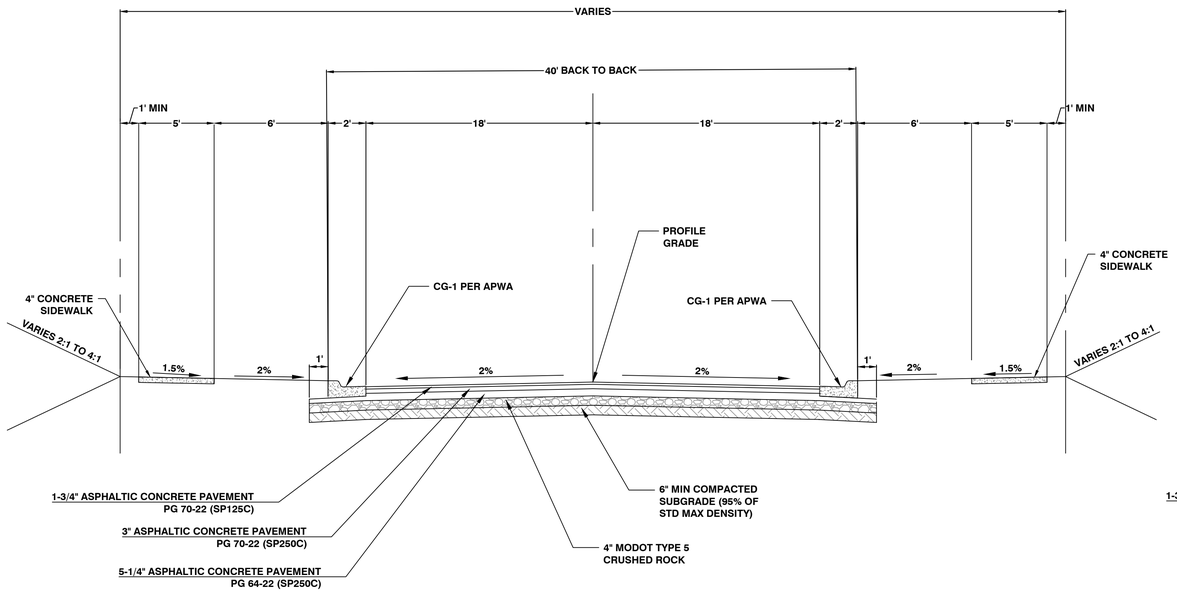

TYPICAL SECTION
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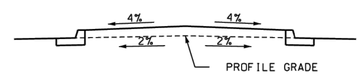
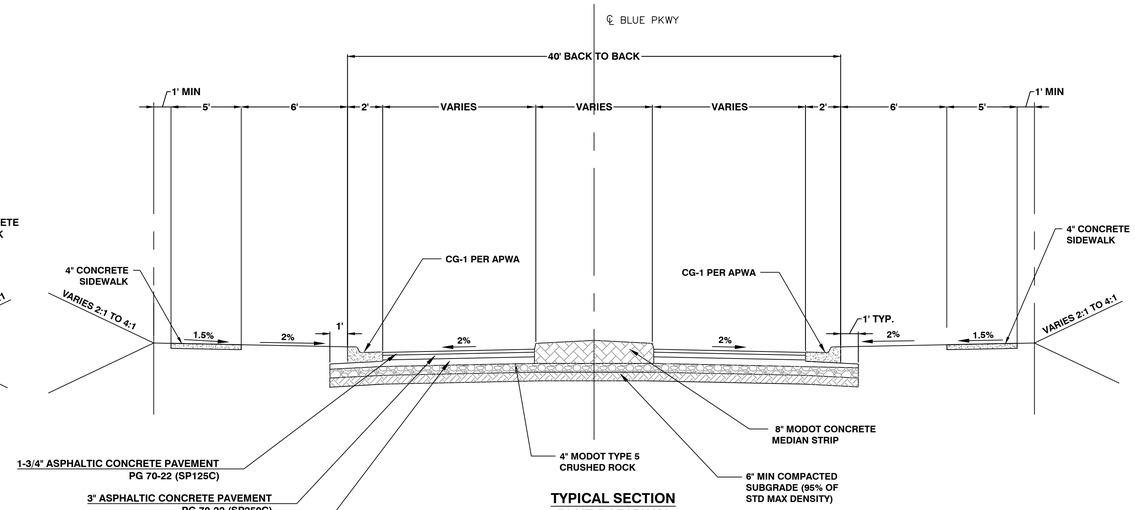
NTS



DETAIL 1



TYPICAL SECTION
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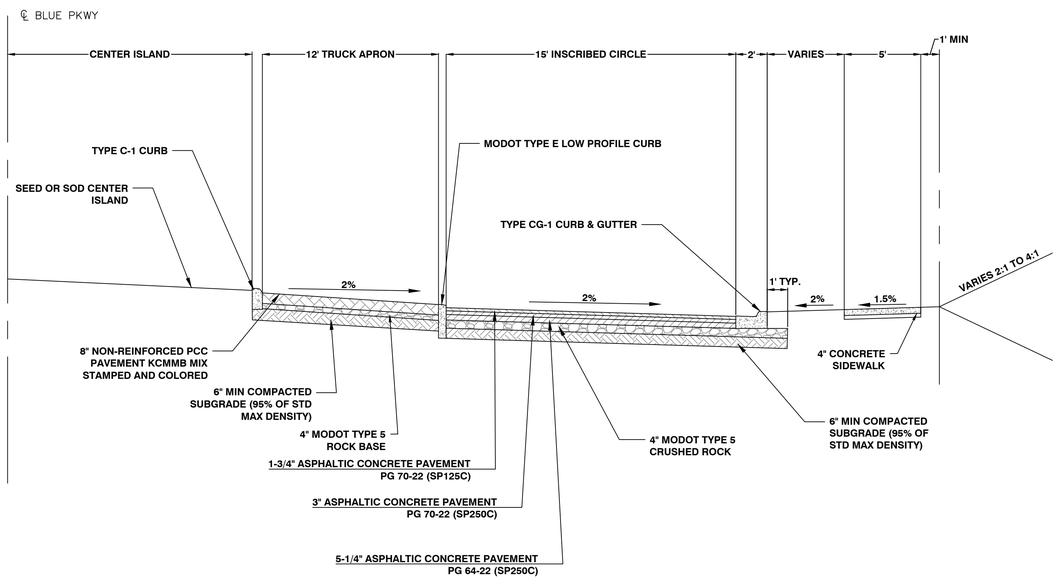
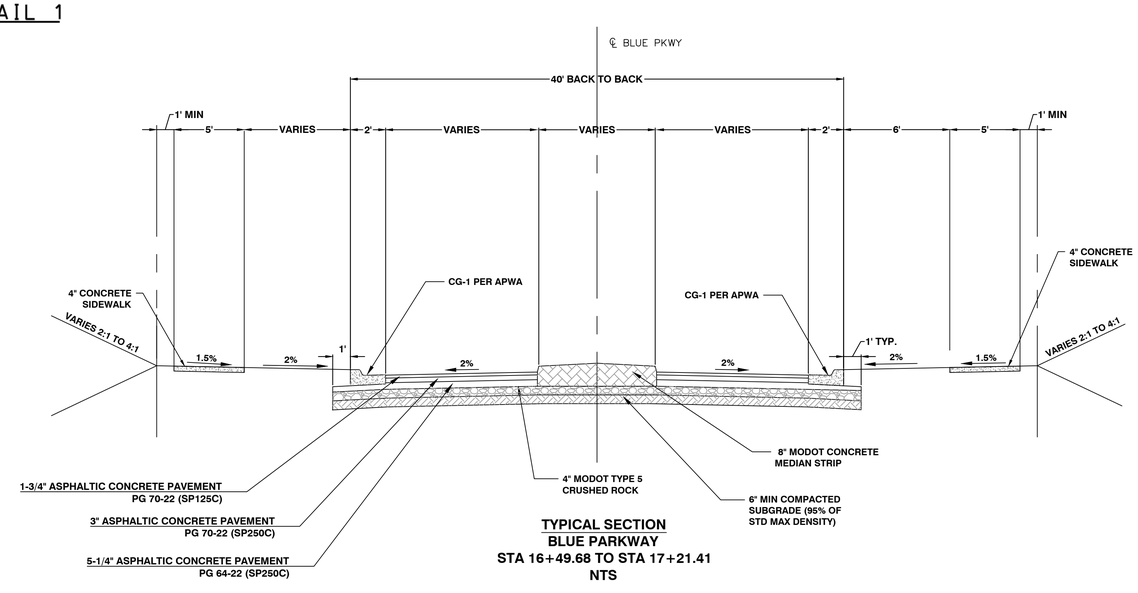
STA 12+28.81 TO STA 14+75.38
NTS



TYPICAL SECTION
ROUNDABOUT



TYPICAL SECTION
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STA 16+49.68 TO STA 17+21.41
NTS

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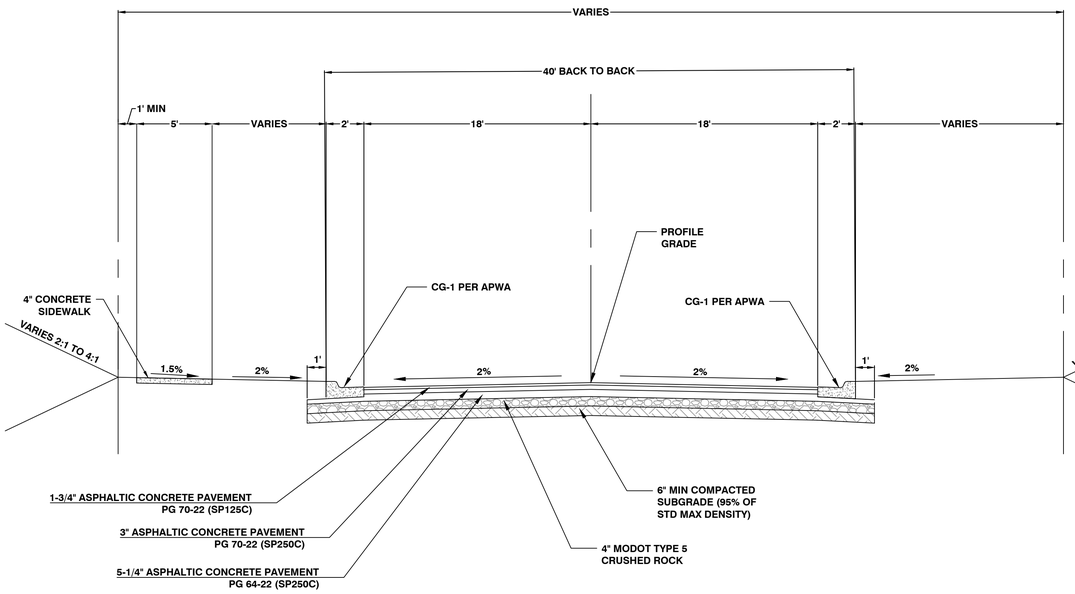

TYPICAL SECTION
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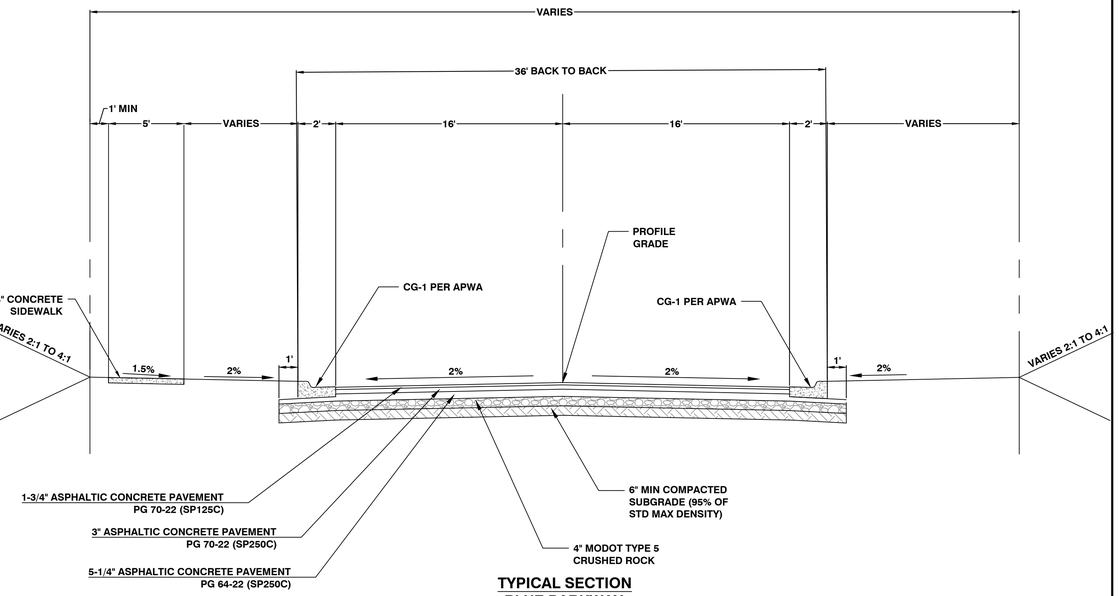

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STA 20+50 TO STA 27+15
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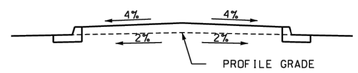
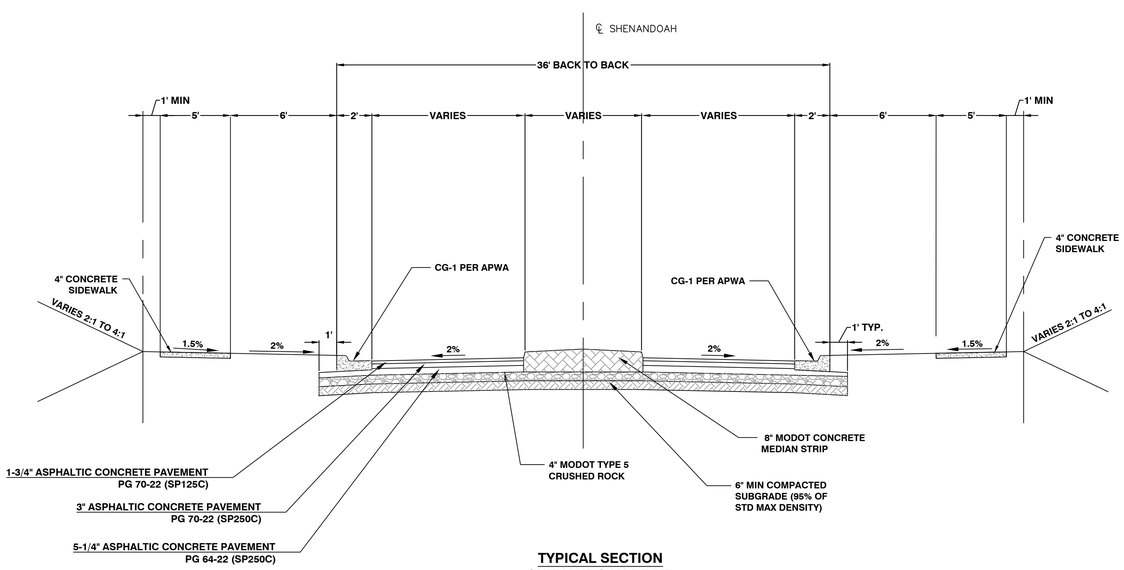
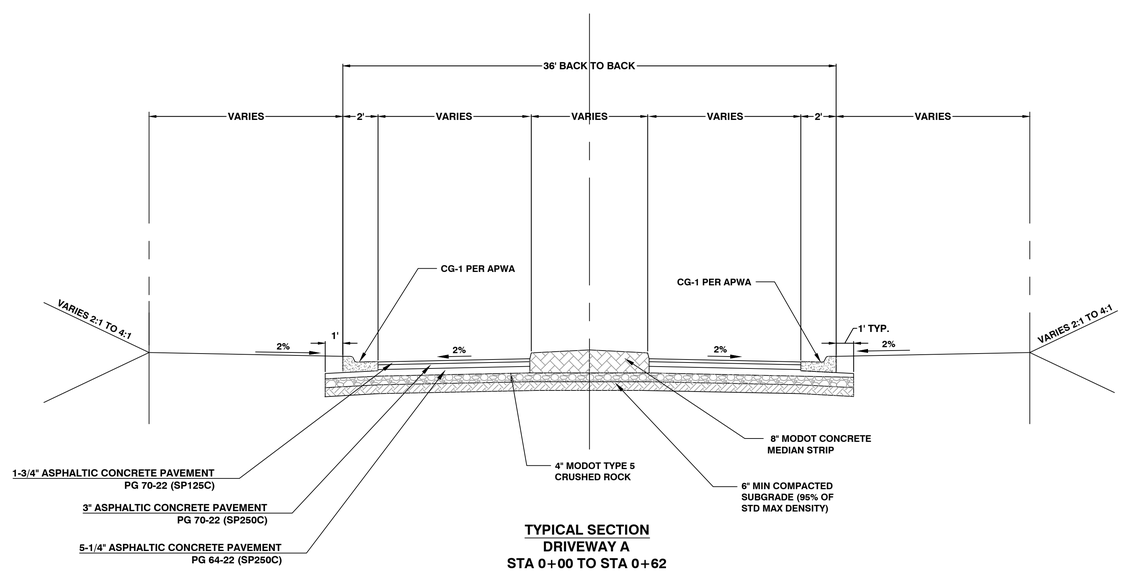


DETAIL 1



TYPICAL SECTION
SHENANDOAH DRIVE
STA 0+00 TO STA 1+03
NTS



TYPICAL SECTION
DRIVEWAY A
STA 0+00 TO STA 0+62
NTS

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TYPICAL SECTION
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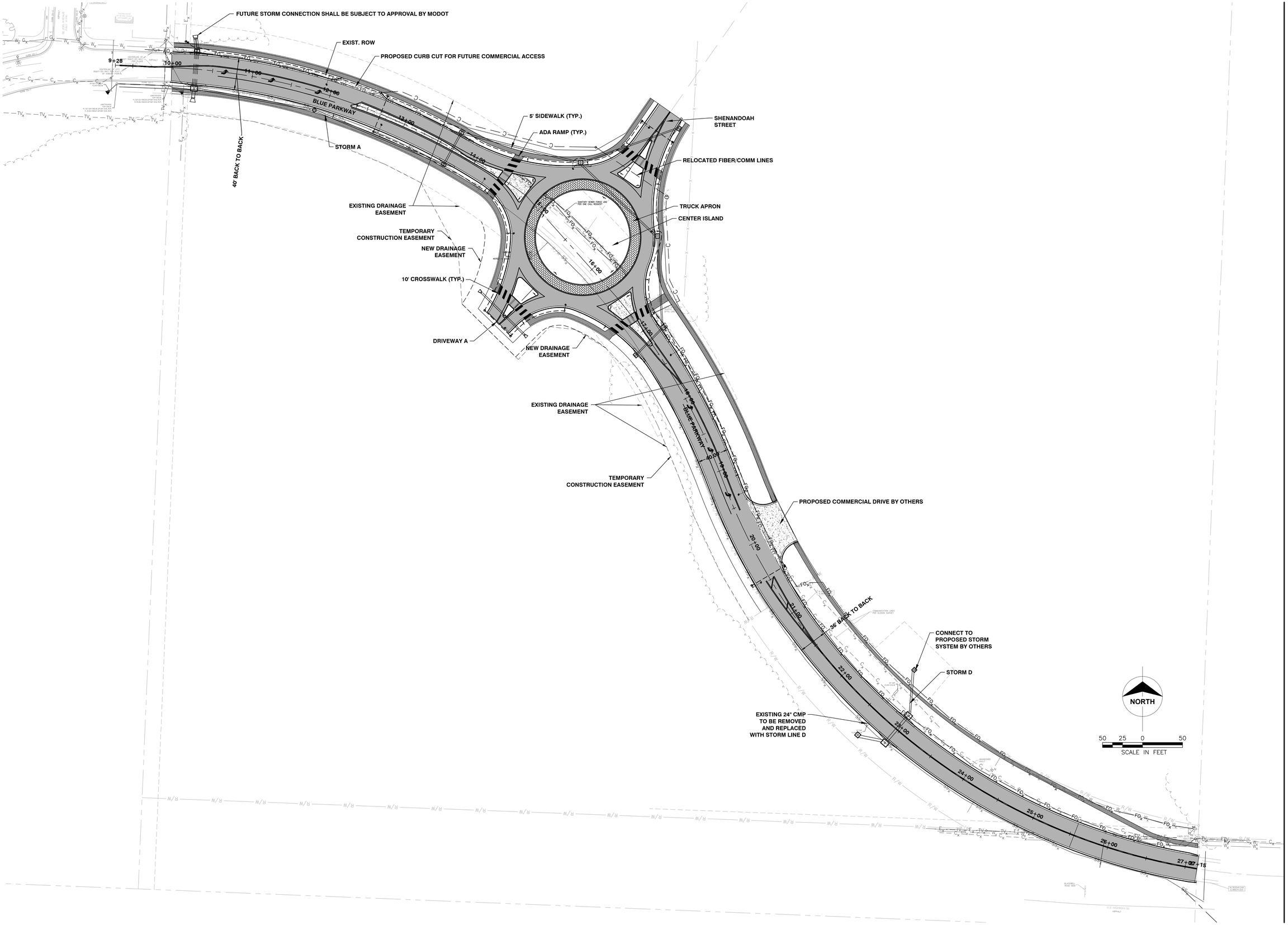

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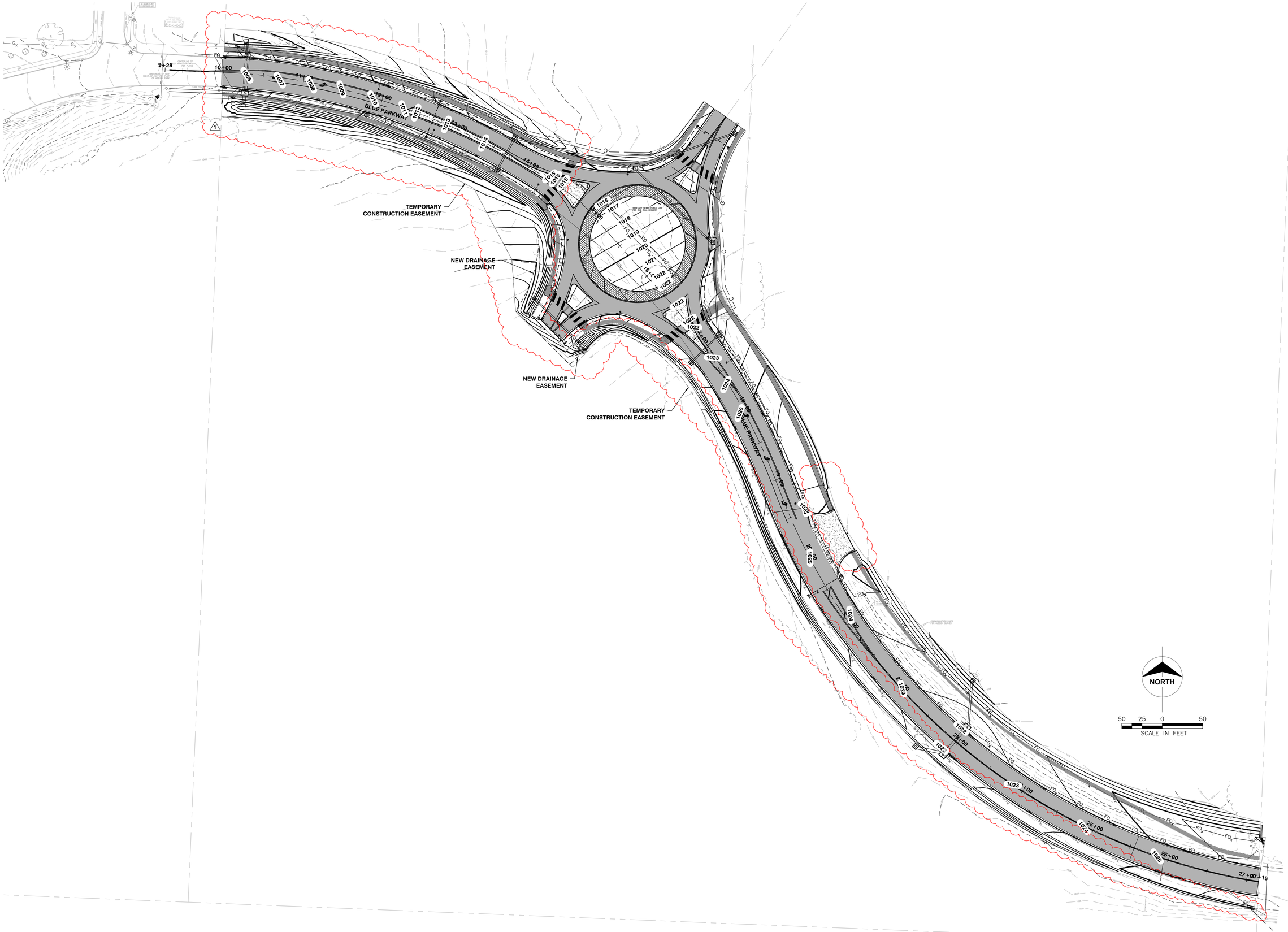
OVERALL LAYOUT PLAN



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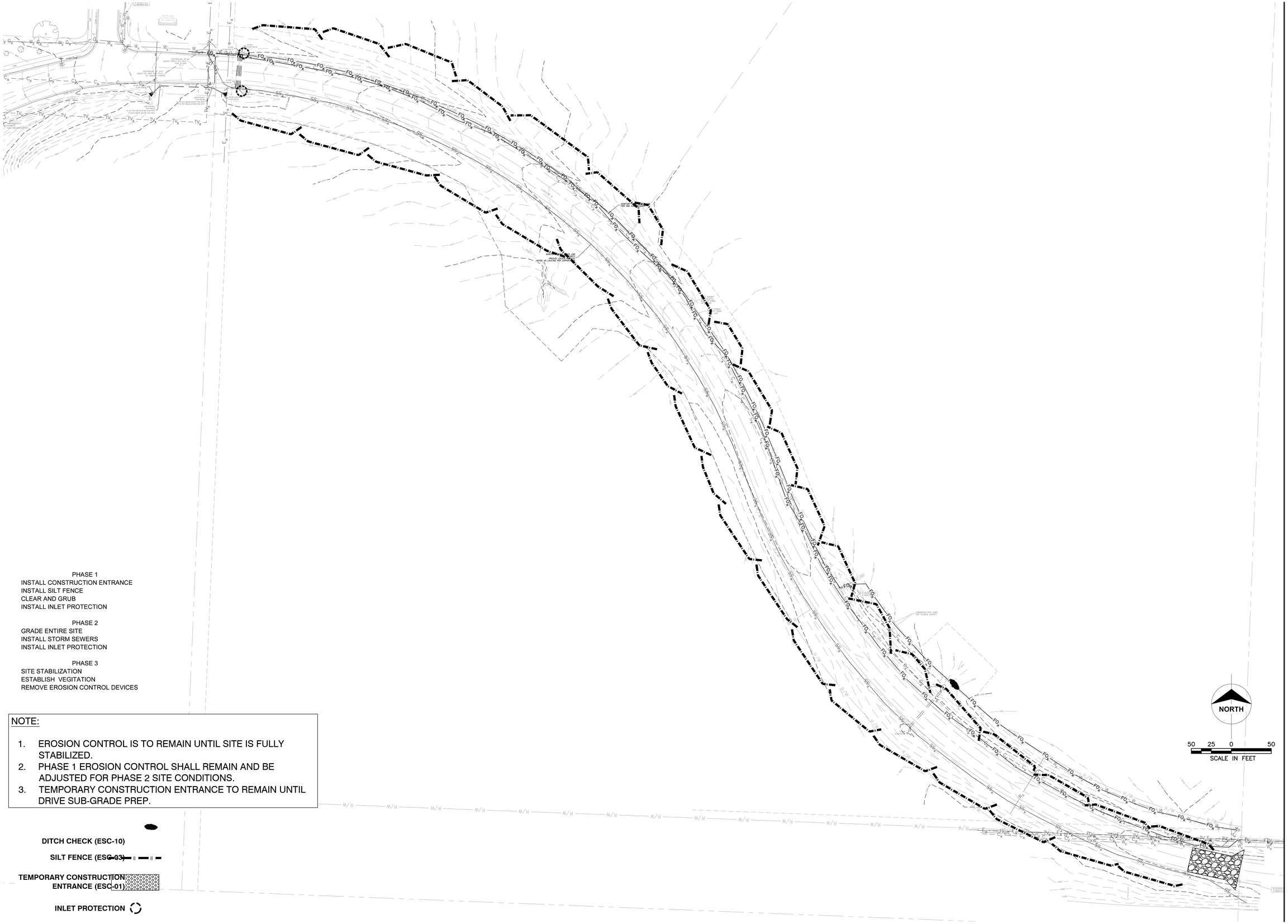
GRADING PLAN

13



PHASE 1
INSTALL CONSTRUCTION ENTRANCE
INSTALL SILT FENCE
CLEAR AND GRUB
INSTALL INLET PROTECTION

PHASE 2
GRADE ENTIRE SITE
INSTALL STORM SEWERS
INSTALL INLET PROTECTION

PHASE 3
SITE STABILIZATION
ESTABLISH VEGITATION
REMOVE EROSION CONTROL DEVICES

NOTE:

1. EROSION CONTROL IS TO REMAIN UNTIL SITE IS FULLY STABILIZED.
2. PHASE 1 EROSION CONTROL SHALL REMAIN AND BE ADJUSTED FOR PHASE 2 SITE CONDITIONS.
3. TEMPORARY CONSTRUCTION ENTRANCE TO REMAIN UNTIL DRIVE SUB-GRADE PREP.

DITCH CHECK (ESC-10)

SILT FENCE (ESC-03)

TEMPORARY CONSTRUCTION ENTRANCE (ESC-01)

INLET PROTECTION

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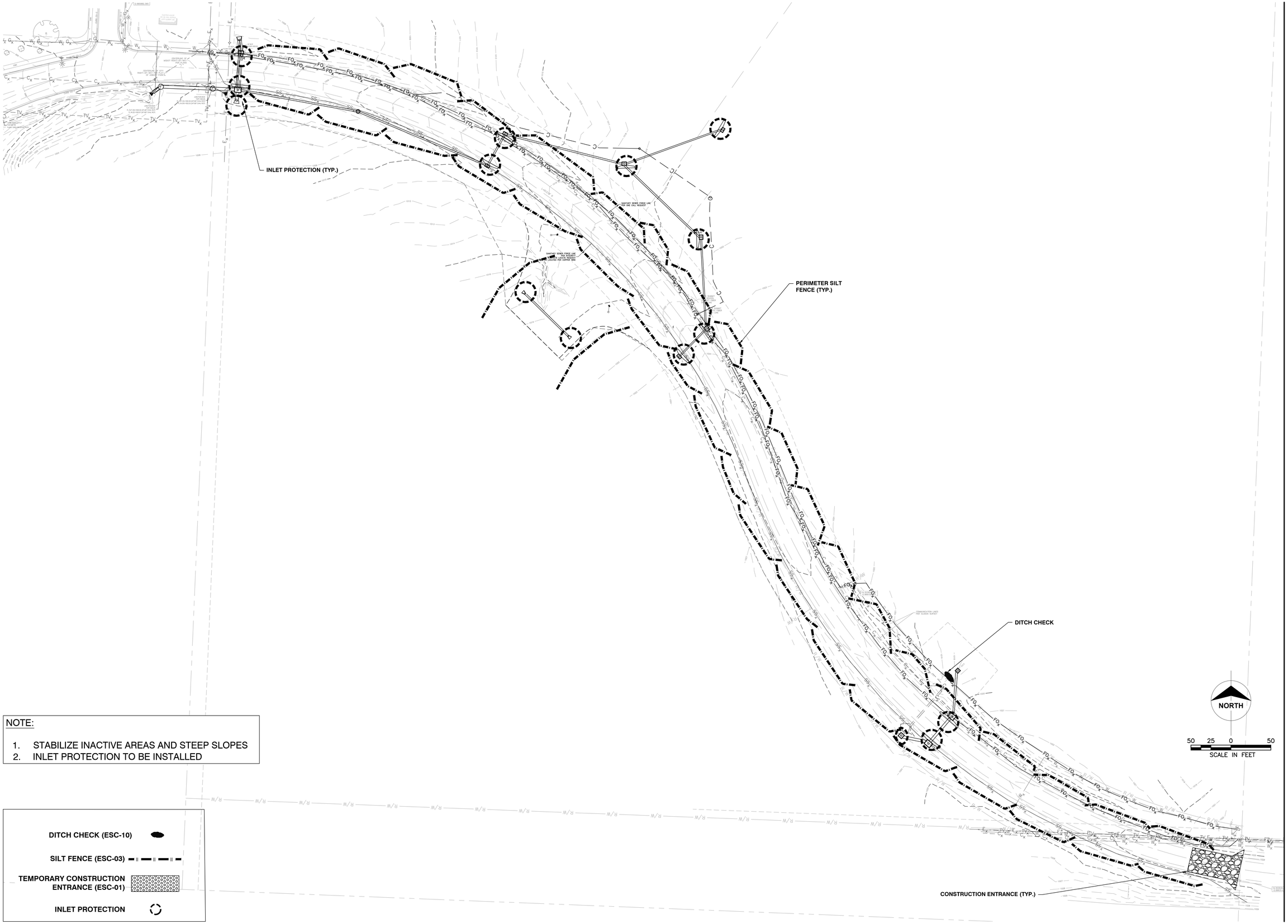
EROSION CONTROL PHASE 1



NOTE:

1. STABILIZE INACTIVE AREAS AND STEEP SLOPES
2. INLET PROTECTION TO BE INSTALLED

DITCH CHECK (ESC-10)

SILT FENCE (ESC-03)

TEMPORARY CONSTRUCTION ENTRANCE (ESC-01)

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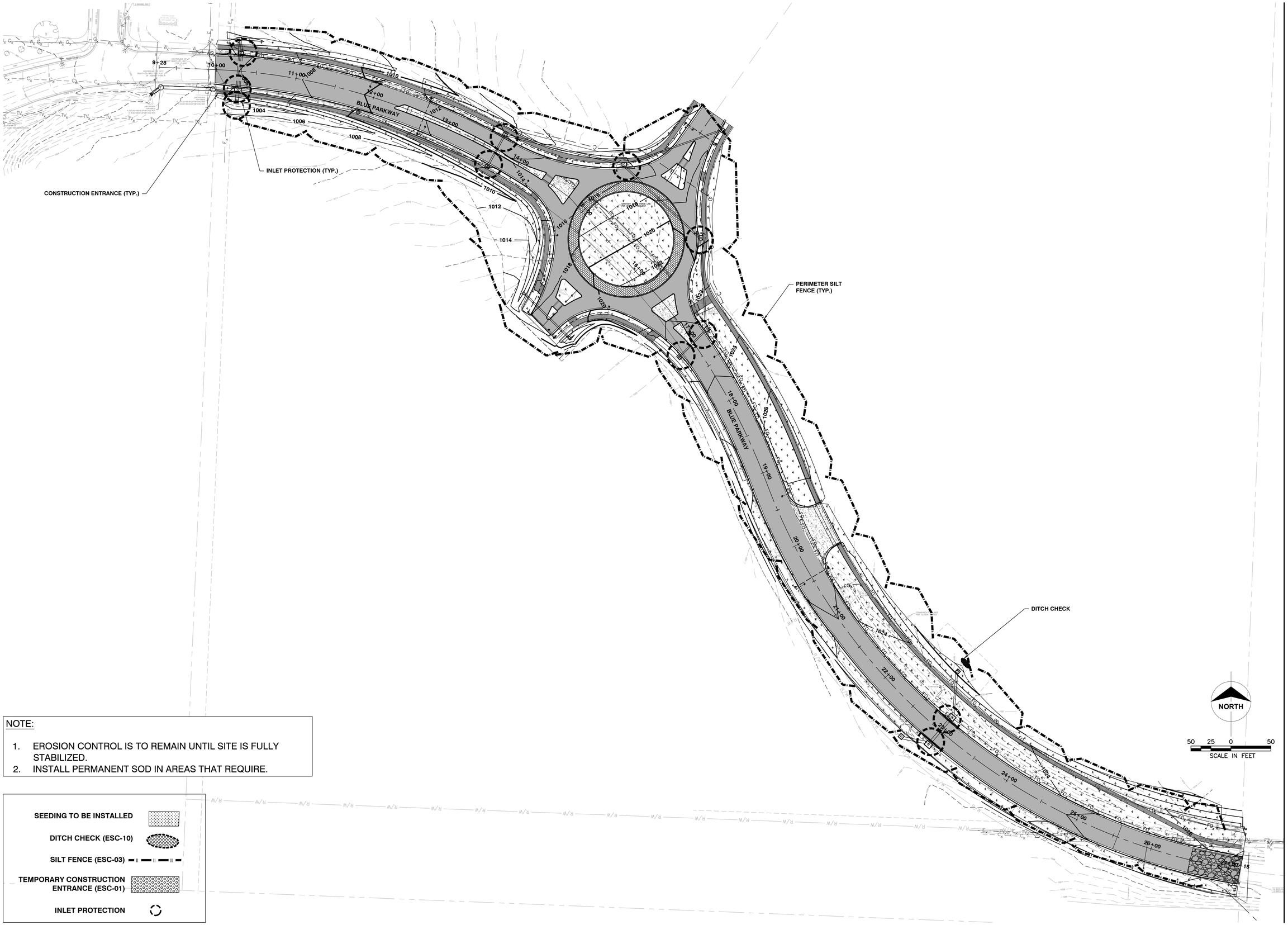
EROSION CONTROL PHASE 2



NOTE:

1. EROSION CONTROL IS TO REMAIN UNTIL SITE IS FULLY STABILIZED.
2. INSTALL PERMANENT SOD IN AREAS THAT REQUIRE.

SEEDING TO BE INSTALLED
DITCH CHECK (ESC-10)
SILT FENCE (ESC-03)
TEMPORARY CONSTRUCTION ENTRANCE (ESC-01)
INLET PROTECTION

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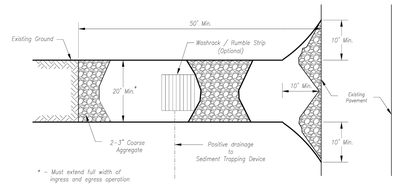
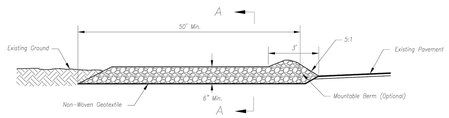
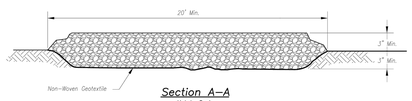
EROSION CONTROL PHASE 3



Plan View
Not to Scale



Side Elevation
Not to Scale



Section A–A
Not to Scale

Notes for Construction Entrance:

1. Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
3. If slope towards the public road exceeds 2%, construct a 6– to 8–inch high ridge with 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
6. Divert all surface runoff and drainage from the entrance to a sediment control device.
7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

Maintenance for Construction Entrance:

1. Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

CONSTRUCTION ENTRANCE

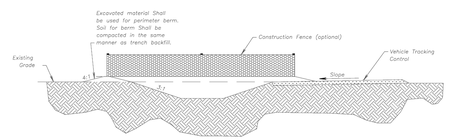
Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control. Concrete Washout modified from 2009 City of Great Bend Standard Drawings.

Notes for Concrete Washout:

1. Concrete washout areas shall be installed prior to any concrete placement on site.
2. Concrete washout area shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
3. Vehicle tracking control is required at the access point to all concrete washout areas.
4. Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.
5. A one–piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

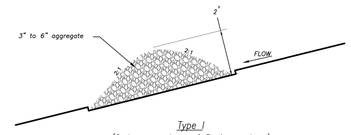
Maintenance for Concrete Washout:

1. Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
2. Concrete washout areas shall be enlarged as necessary to maintain capacity for wasted concrete.
3. Concrete washout water, wasted pieces of concrete and all other waste in the subsurface pit shall be transported from the job site in a water–tight container and disposed of properly.
4. Concrete washout areas shall remain in place until all concrete for the project is placed.
5. When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.

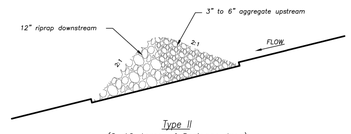


CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION
Kansas City Metro Chapter
KANSAS CITY METRO CHAPTER
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT
STANDARD DRAWING NUMBER ESC-01
ADOPTED: 10/24/2016



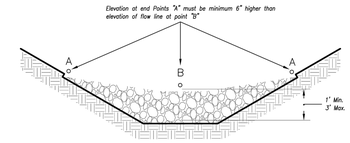
Type I
(2 Acres or less of Drainage Area)
Not to Scale



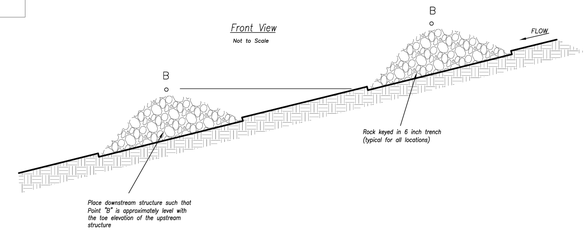
Type II
(2–10 Acres of Drainage Area)
Not to Scale

Temporary Rock Ditch Check Spacing	
Ditch Centerline Slope (%)	Spacing Interval (Feet)
5.0	60
6.0	50
7.0	43
8.0	36
9.0	33
10.0	29
Note: Use this spacing only for Rock Ditch Checks.	

ROCK DITCH CHECK



Front View
Not to Scale



Spacing Between Check Dams (all types)
Not to Scale

Notes:

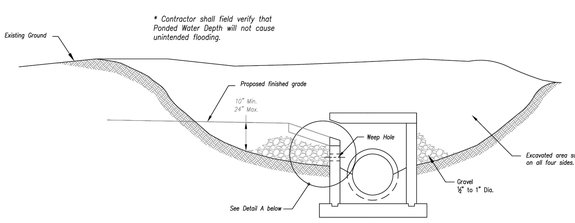
1. Rock check dams shall be used only for drainage areas less that 10 acres unless approved by the City Engineer.
2. Use rock checks only in situations where the ditch slope exceeds 6%.

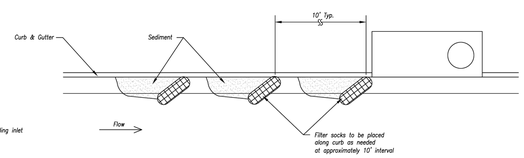
Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches ½ the height of the ditch check.
2. Replace and reshape as necessary to maintain function and integrity of installation.

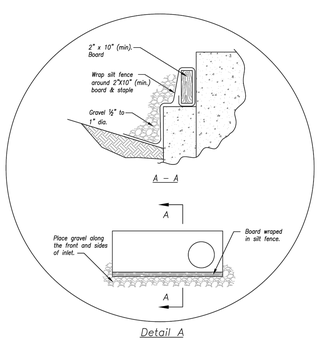
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION
Kansas City Metro Chapter
KANSAS CITY METRO CHAPTER
ROCK DITCH CHECKS
STANDARD DRAWING NUMBER ESC-10
ADOPTED: 10/24/2016





On Grade Curb Inlet Protection



Detail A

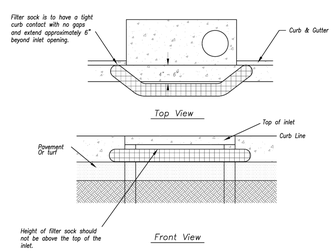
EARLY STAGE CURB INLET
(Open Box and Prior to Pouring Curb and Inlet Throat)

Notes:

1. Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2" X 10" (min.) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
2. When inlet is completed and curb poured, filter socks or approved equal should be used (Late Stage Curb Inlet). Straw wattles are not approved for curb inlet use.
3. Contractor to field verify ponding water shall not create a traffic hazard.

Maintenance:

1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
3. Repair or replace as necessary to maintain function and integrity of installation.

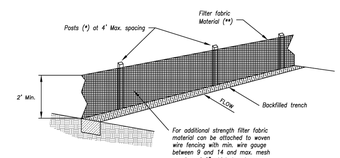


Sump Inlet Sediment Filter

LATE STAGE CURB INLET
(After Pouring Curb and Inlet Throat)

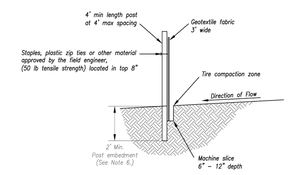
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION
Kansas City Metro Chapter
KANSAS CITY METRO CHAPTER
CURB INLET PROTECTION
STANDARD DRAWING NUMBER ESC-06
ADOPTED: 10/24/2016



(*) POSTS
- MIN. LENGTH 4'
- HARDWOOD 1 9/16" x 1 9/16"
- NO.2 SOUTHERN PINE 2 9/16" x 2 9/16"
- STEEL 1.33 LB/FT

(**) – Geotextile Fabric shall meet the requirements of AASHTO M288



Notes:

1. In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
2. Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
3. Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
4. Attach fabric to upstream side of post.
5. Install posts a minimum of 2' into the ground.
6. Trenching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably used.

Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches ½ the height of silt fence.
2. Repair as necessary to maintain function and structure.

SILT FENCE DETAILS
Not to Scale

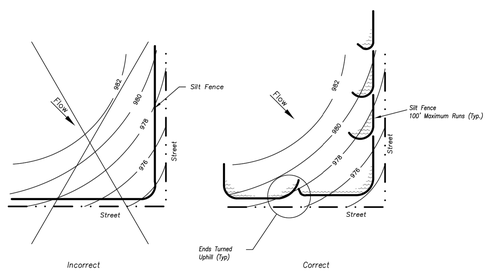
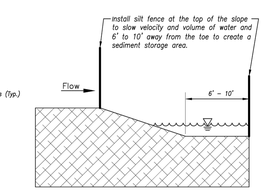
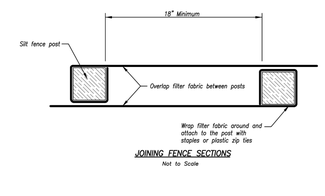


Figure A

SILT FENCE LAYOUT
Not to Scale





JOINING FENCE SECTIONS
Not to Scale

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION
Kansas City Metro Chapter
KANSAS CITY METRO CHAPTER
SILT FENCE
STANDARD DRAWING NUMBER ESC-03
ADOPTED: 10/24/2016

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Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

STATE OF MISSOURI
JADRIENNE S. RODELL-TIPTON
NUMBER PE-2021032725
PROFESSIONAL ENGINEER
10/17/23

Jadrienne S. Rodell-Tipton, PE
PE-2021032725 (MISSOURI #)

PREPARED FOR:
GRIFFIN RILEY
PROPERTY GROUP, LLC
21 SE 29th TERRACE,
LEE'S SUMMIT, MO 64082

PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

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EROSION CONTROL DETAILS
17

CURVE #1
PI 11+02.92
Δ 015.66°
T=104.78
L=208.26
N 996996.47
E 2841329.87
R= 762.00

CURVE #2
PI 13+42.49
Δ 018.26°
T=136.09
L=269.87
N 996921.68
E 2841558.84
R= 846.81

CURVE #3
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Δ 018.13°
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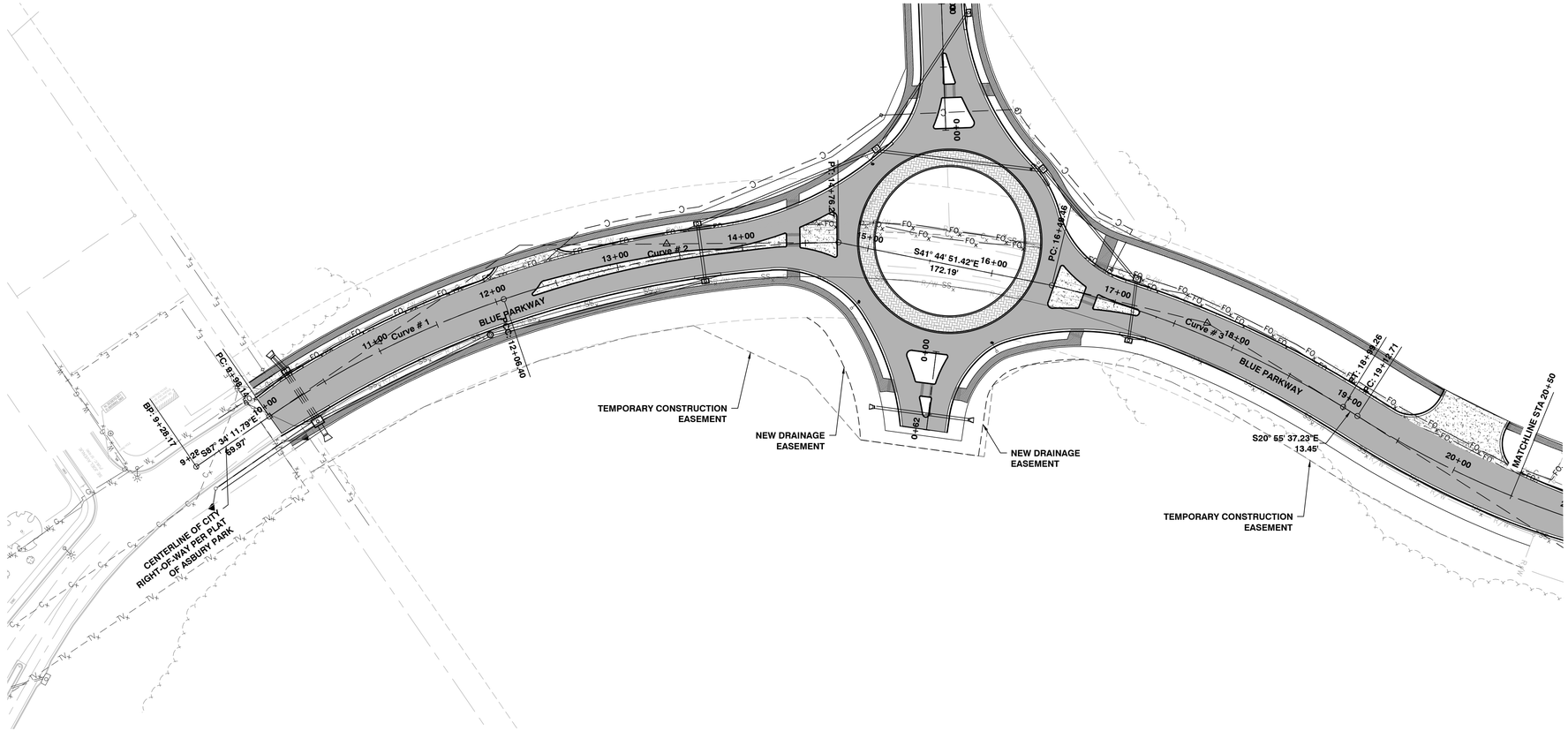
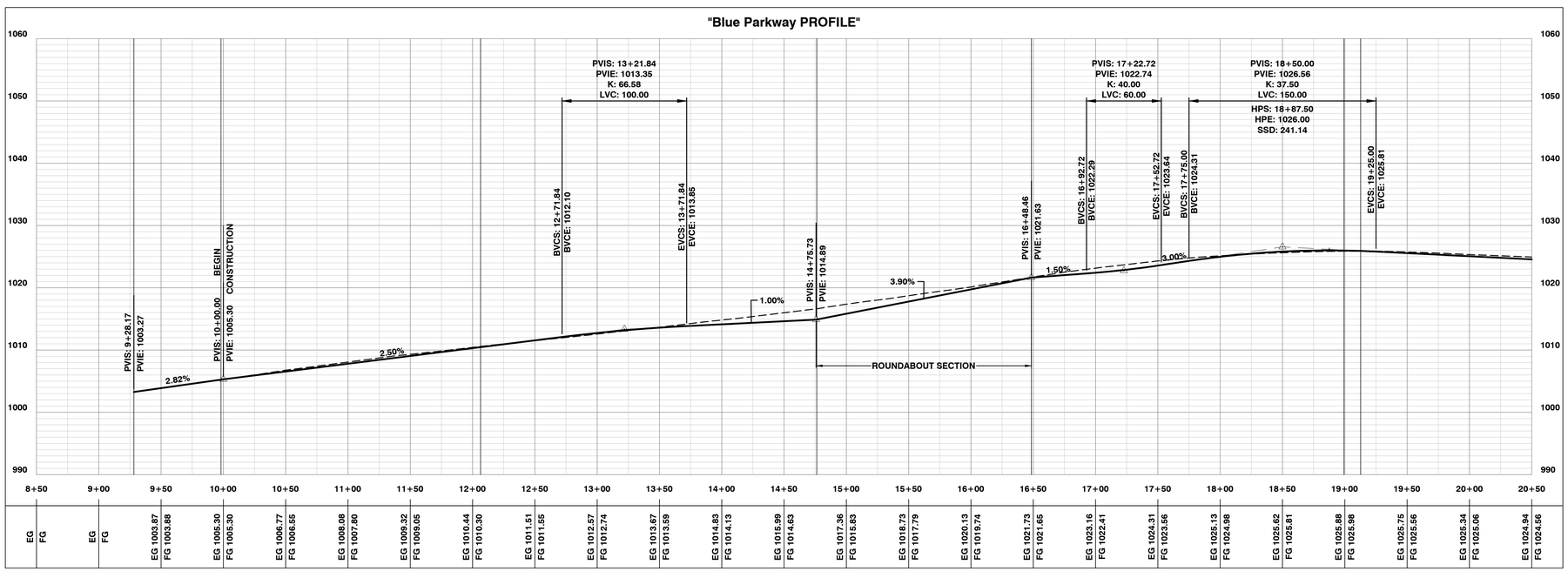
R= 792.66





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PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

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STREET PLAN & PROFILE

CURVE #4
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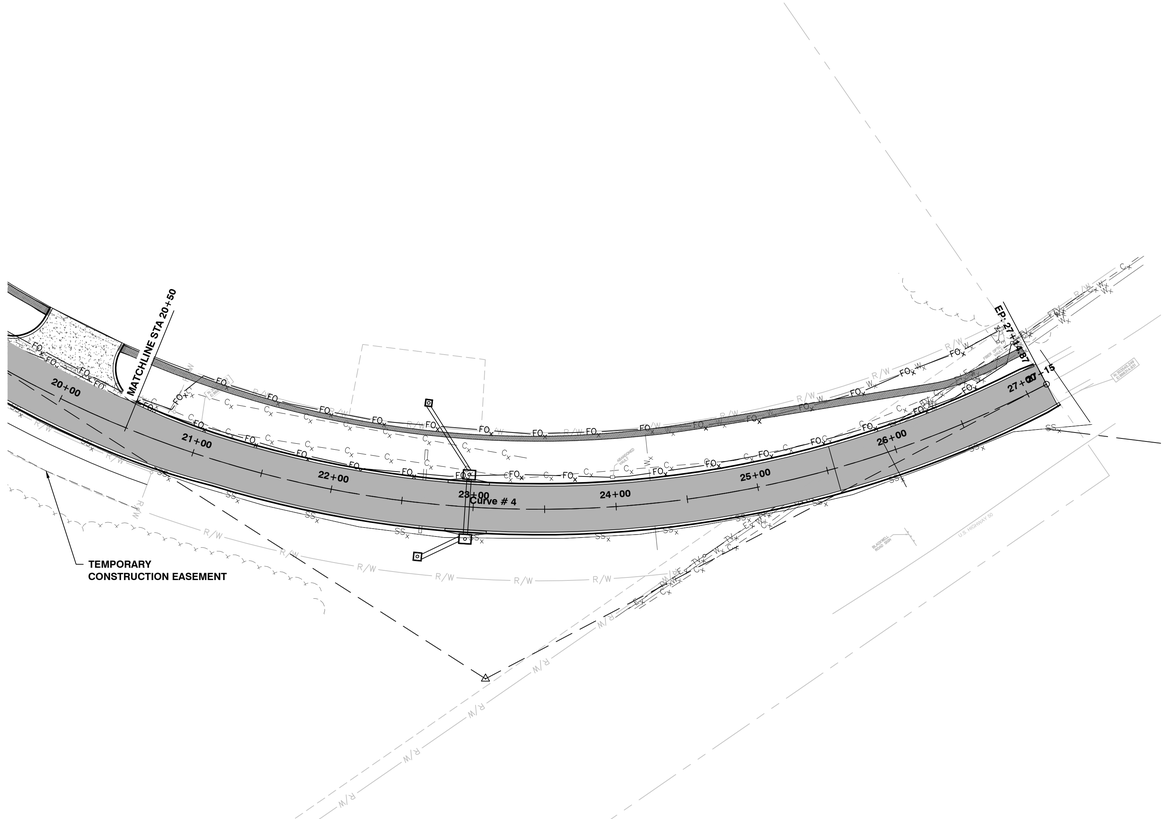
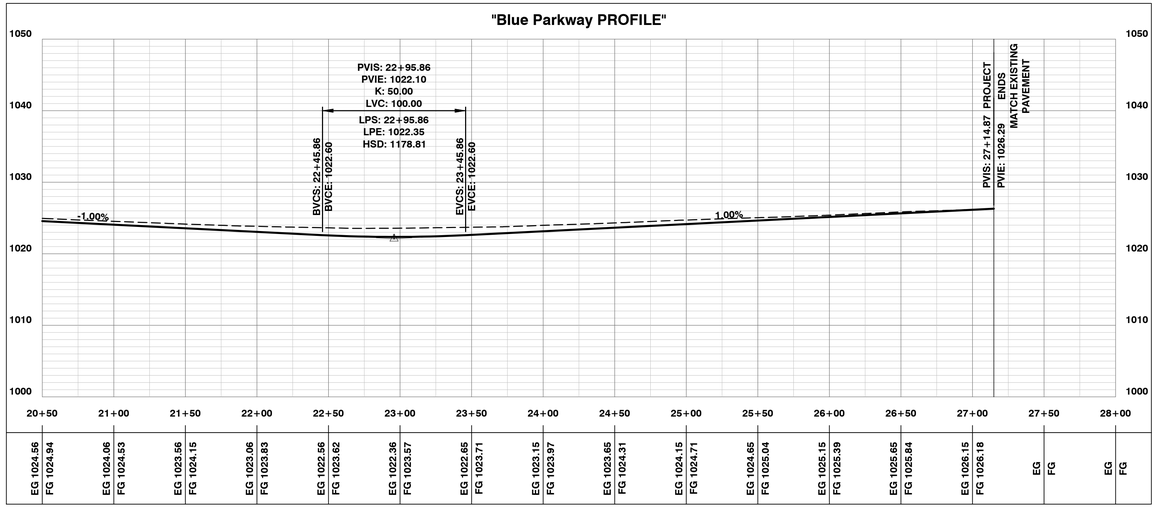
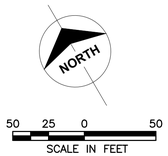
Δ 060.32°
T=442.74
L=802.16
N 996070.15
E 2842069.93
R= 762.00







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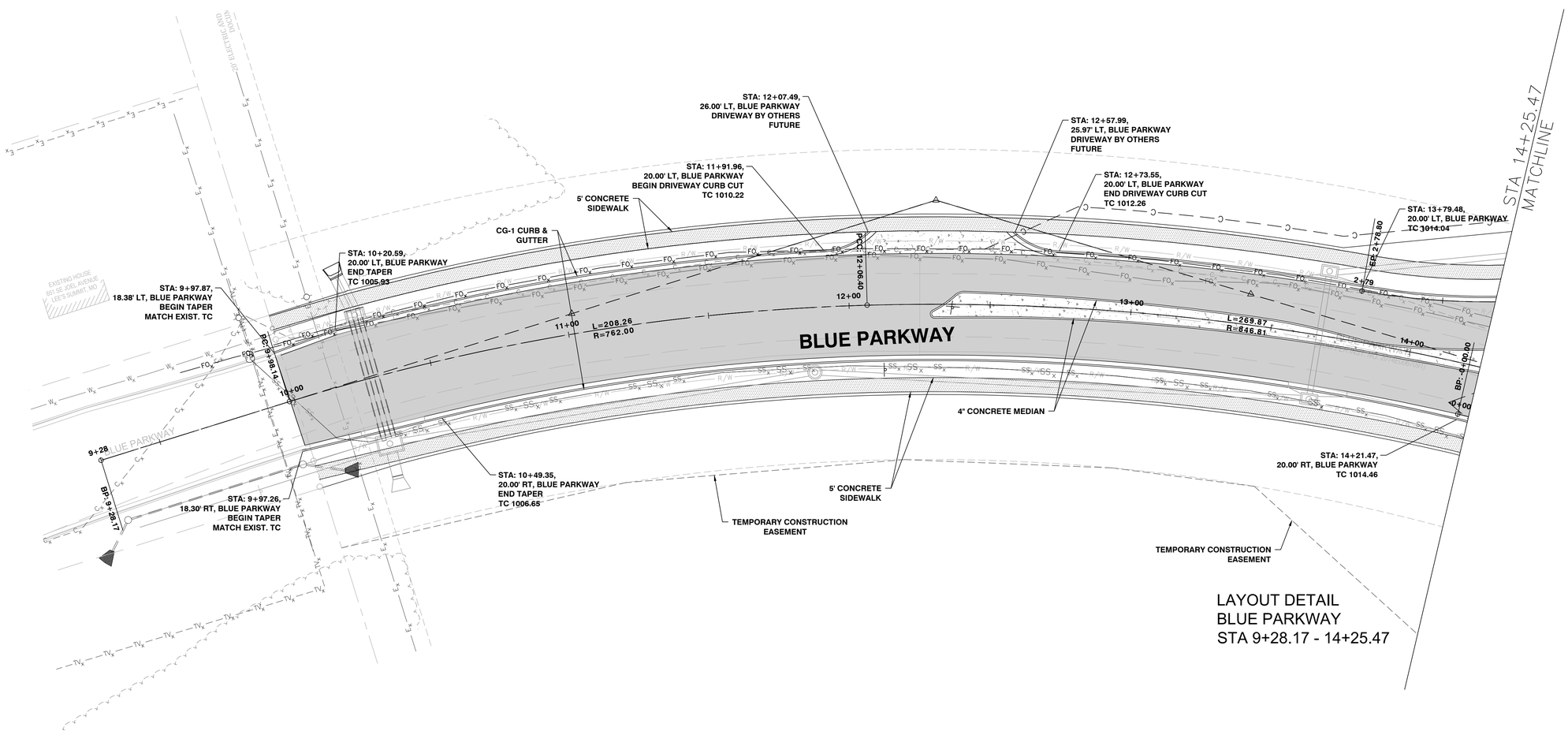
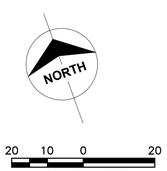
STREET PLAN & PROFILE 2



LAYOUT DETAIL
BLUE PARKWAY
STA 9+28.17 - 14+25.47



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Land Surveying: MO 123 / KS 36

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PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

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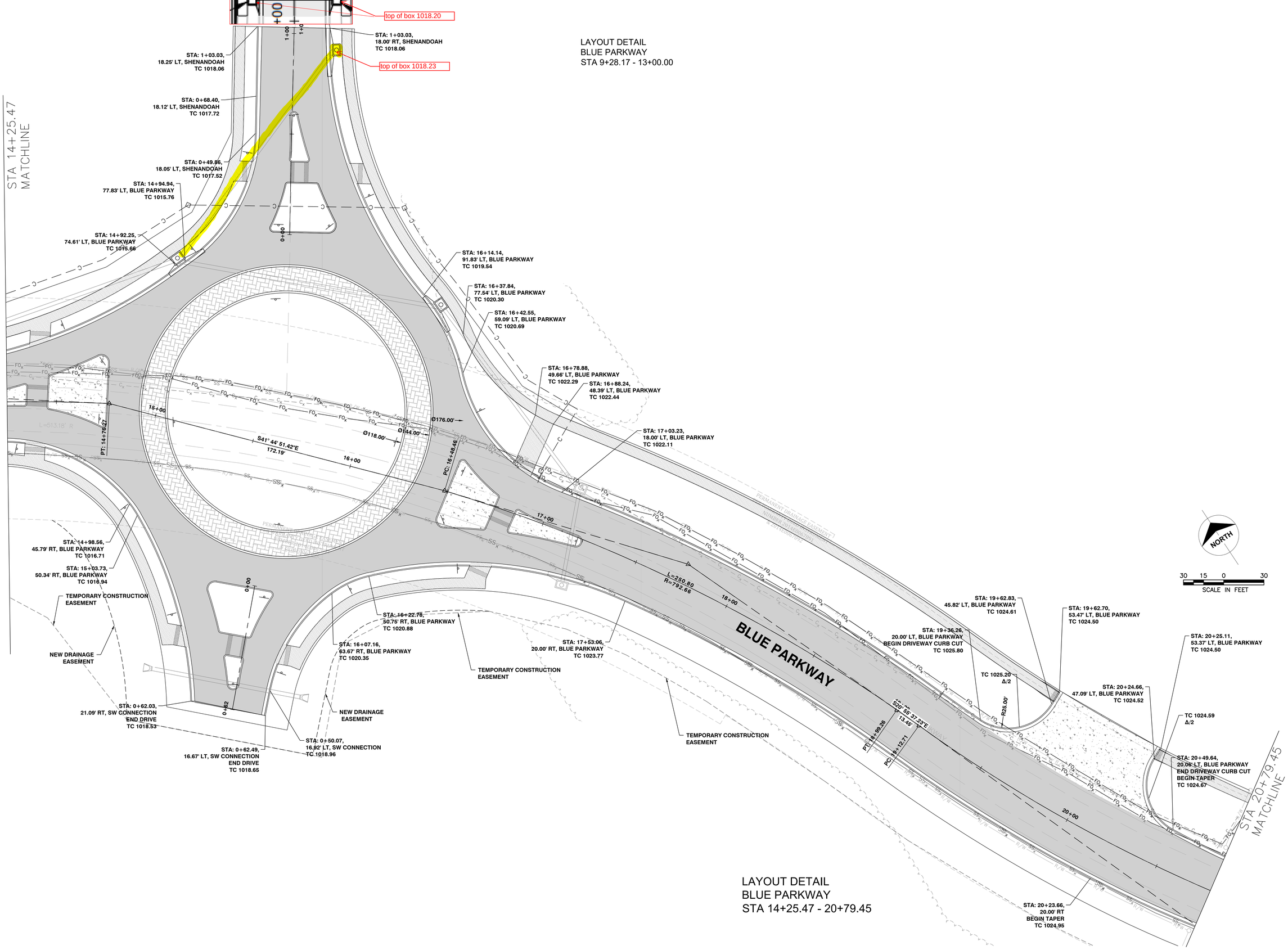
LAYOUT DETAILS



LAYOUT DETAIL
BLUE PARKWAY
STA 9+28.17 - 13+00.00

LAYOUT DETAIL
BLUE PARKWAY
STA 14+25.47 - 20+79.45

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PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

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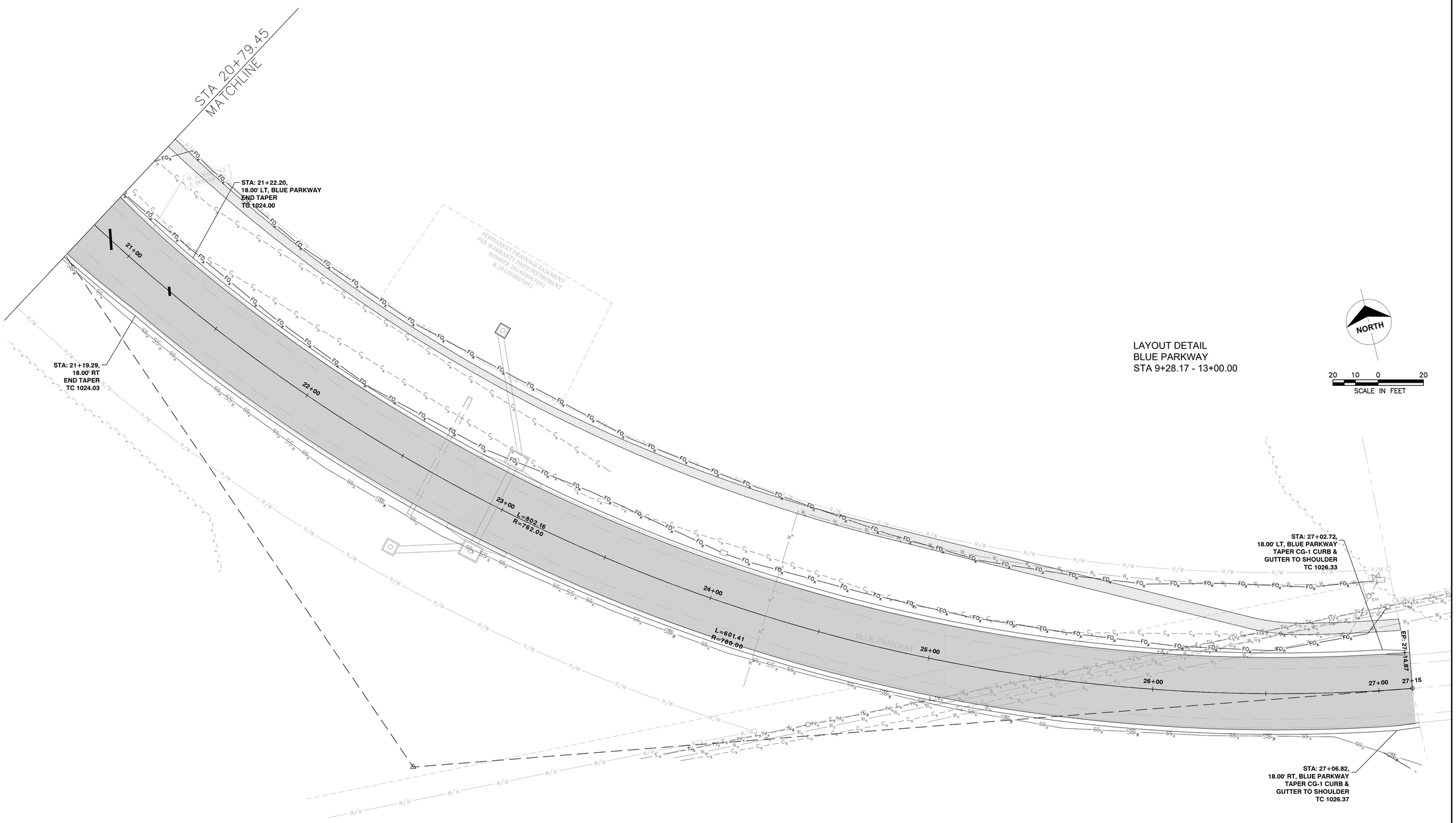
LAYOUT DETAILS 2



LAYOUT DETAIL
BLUE PARKWAY
STA 9+28.17 - 13+00.00

NORTH

20 10 0 20
SCALE IN FEET

LAYOUT DETAIL
BLUE PARKWAY
STA 14+25.47 - 27+15.00

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PUBLIC IMPROVEMENT PLANS
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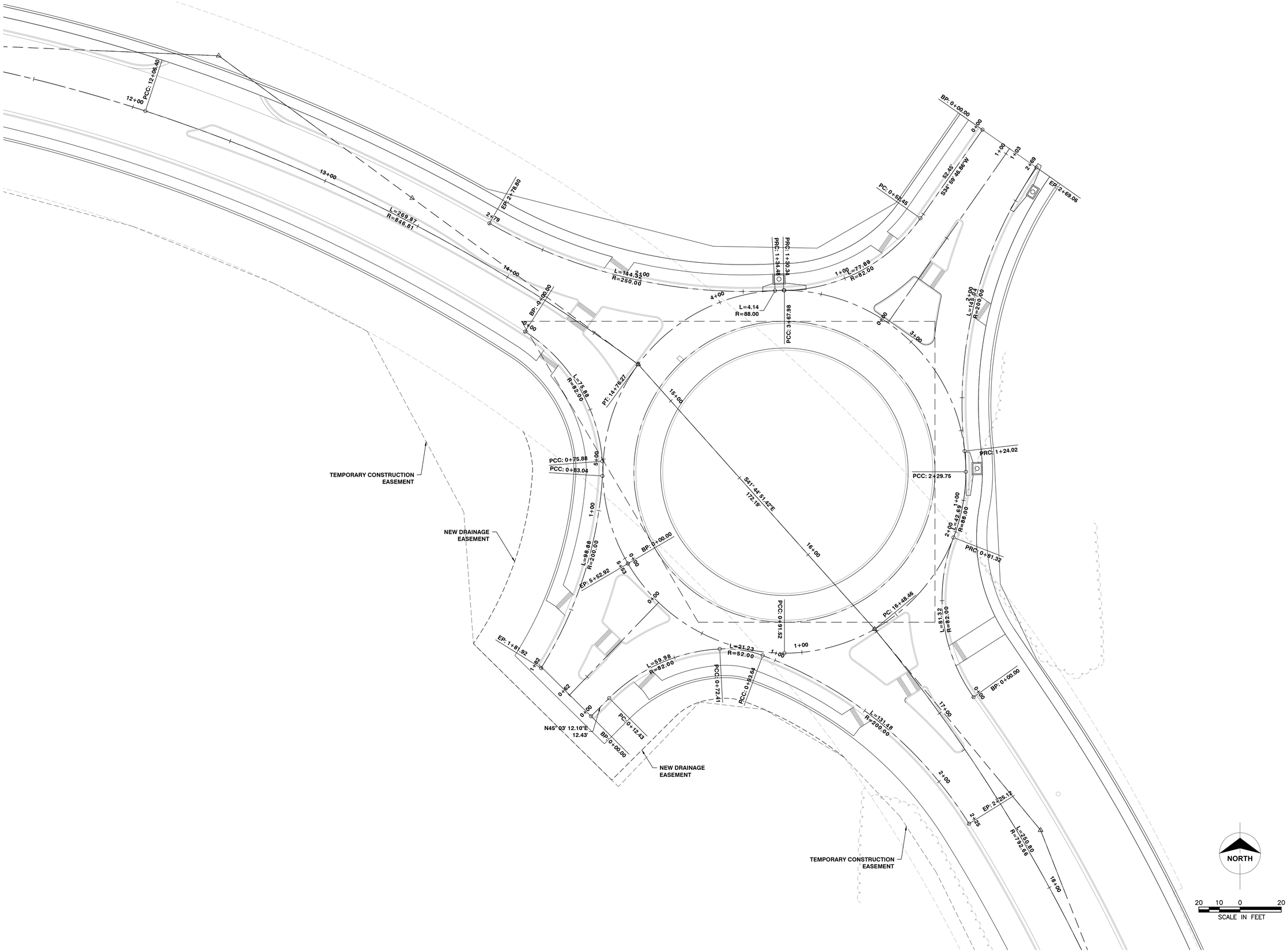
LAYOUT DETAILS 3



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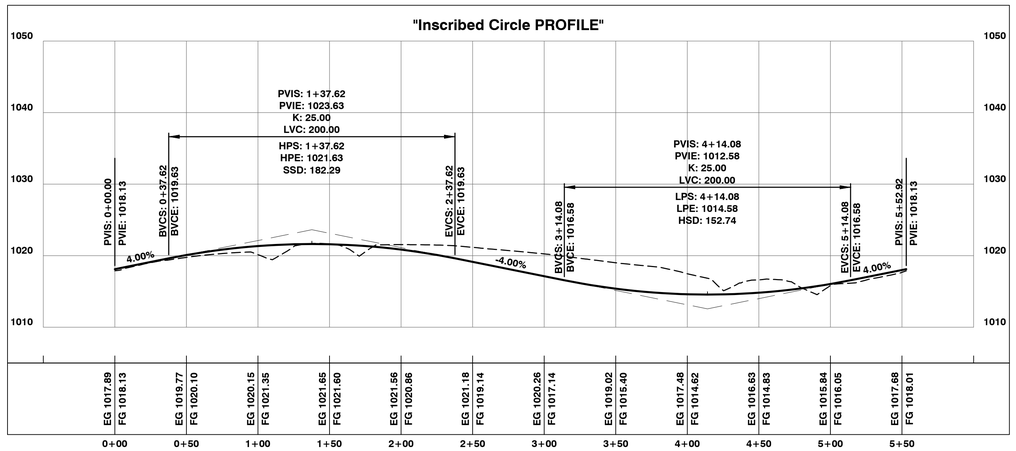
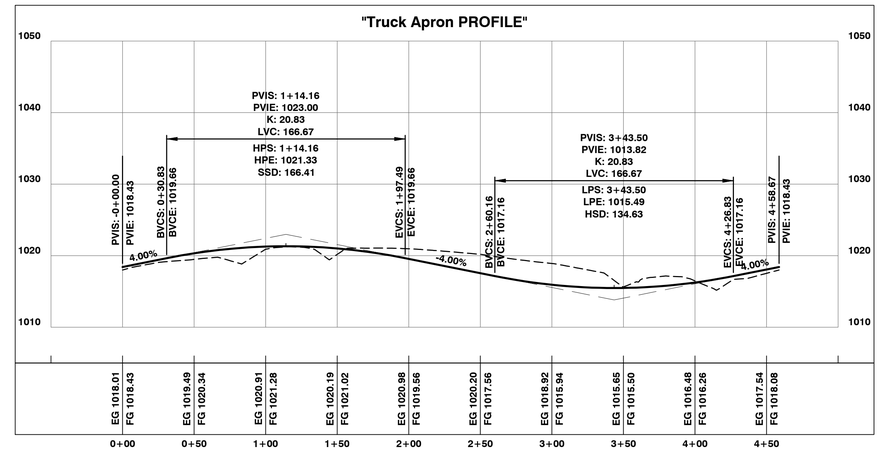
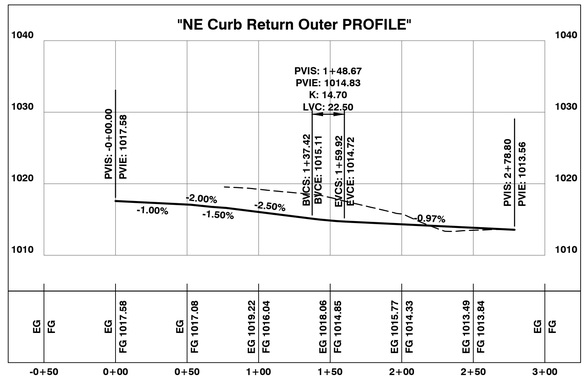
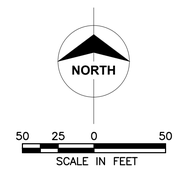
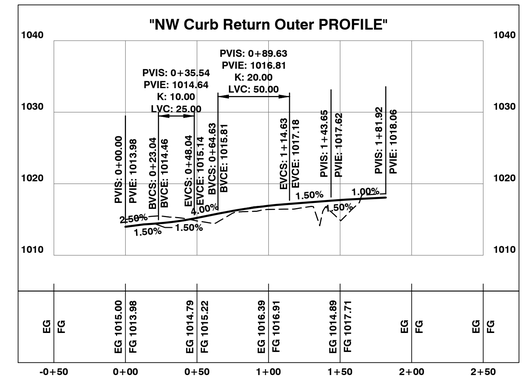
ROUNDABOUT ALIGNMENTS

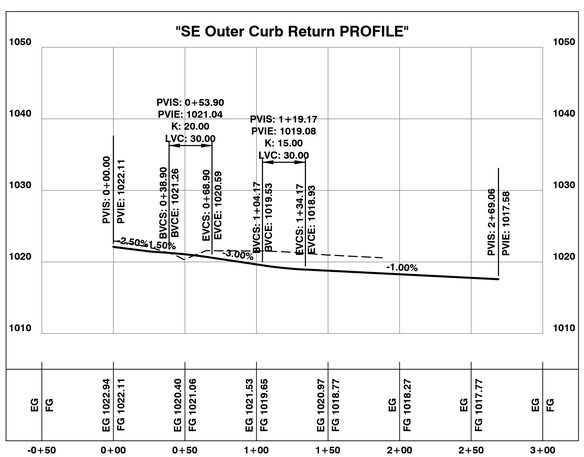


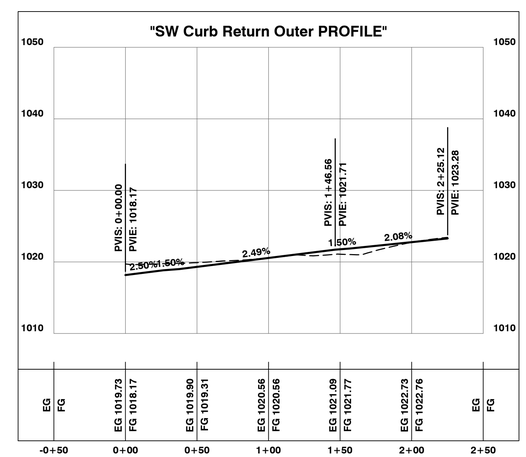












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Engineering: MO 4 / KS 241
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21 SE 29th TERRACE,
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PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

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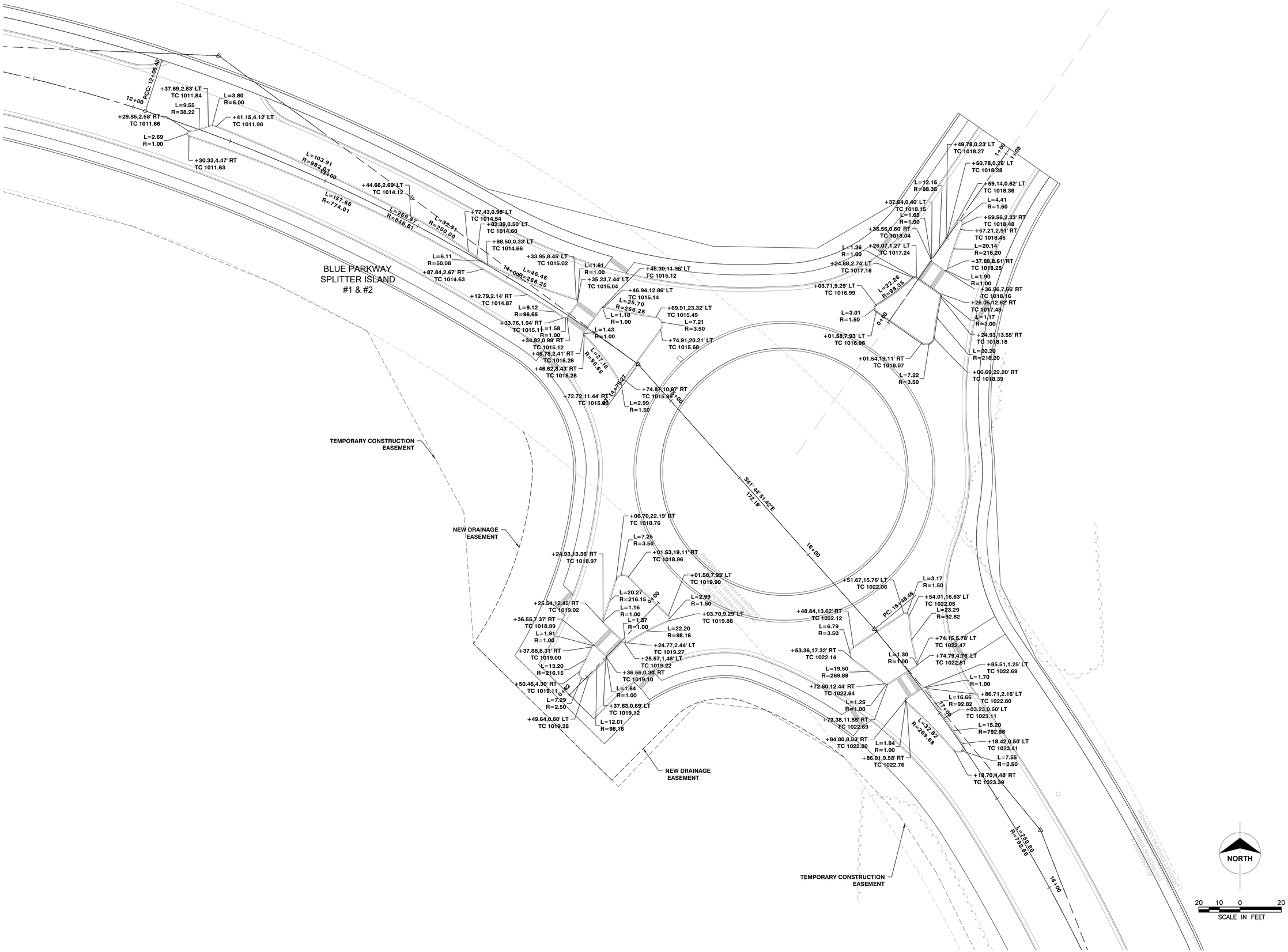
ROUNDABOUT PROFILES



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Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

STATE OF MISSOURI
JADRIENNE S. RODELL-TIPTON
NUMBER PE-2021032725
PROFESSIONAL ENGINEER
10/17/24

Jadrienne S. Rodell-Tipton, PE
PE-2021032725 (MISSOURI #)

PREPARED FOR:
GRIFFIN RILEY
PROPERTY GROUP, LLC
21 SE 29th TERRACE,
LEE'S SUMMIT, MO 64082

PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

REVISIONS

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ISSUE DATE: 03-28-2023

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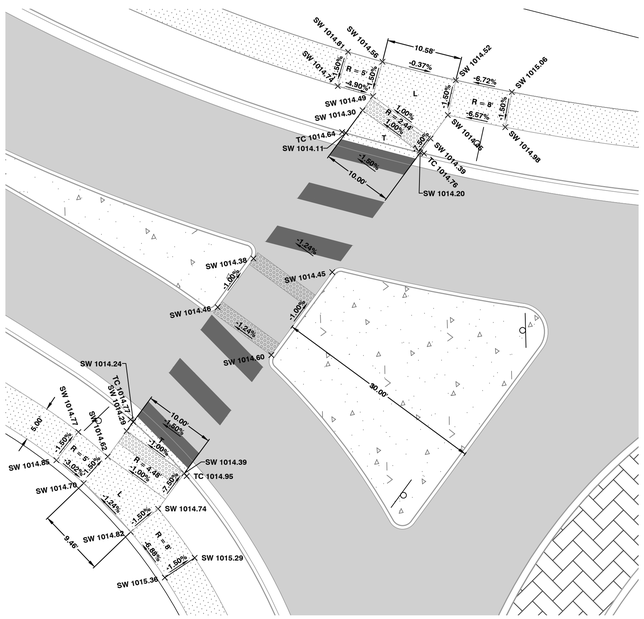
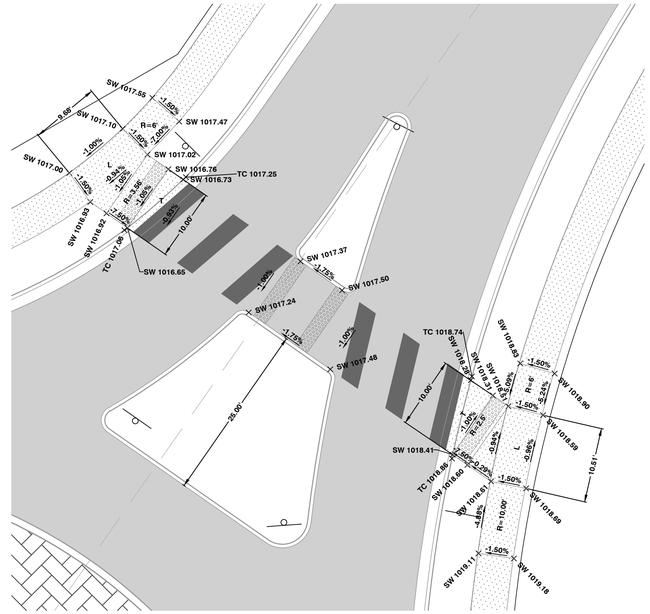
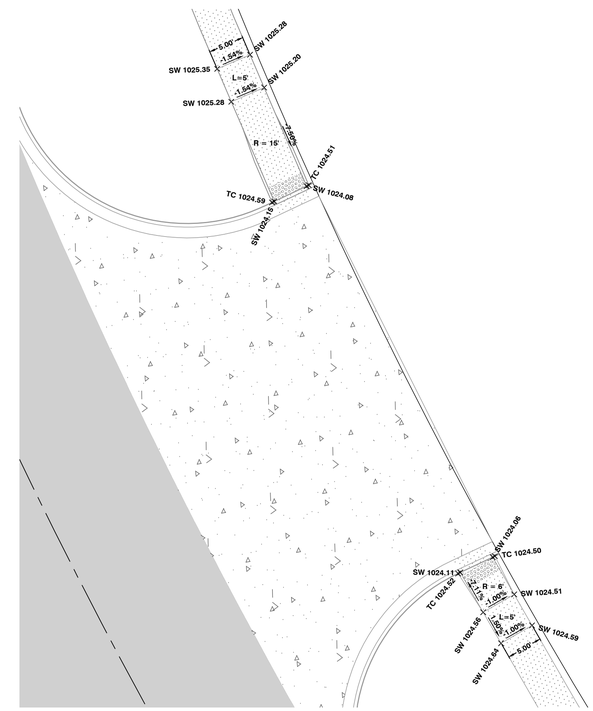
SPLITTER ISLAND DETAILS



BLUE PARKWAY (NW) CURB RAMP DETAILS



SHENANDOAH CURB RAMP DETAILS



BLUE PARKWAY (SE) COMMERCIAL DRIVE CURB RAMP DETAILS

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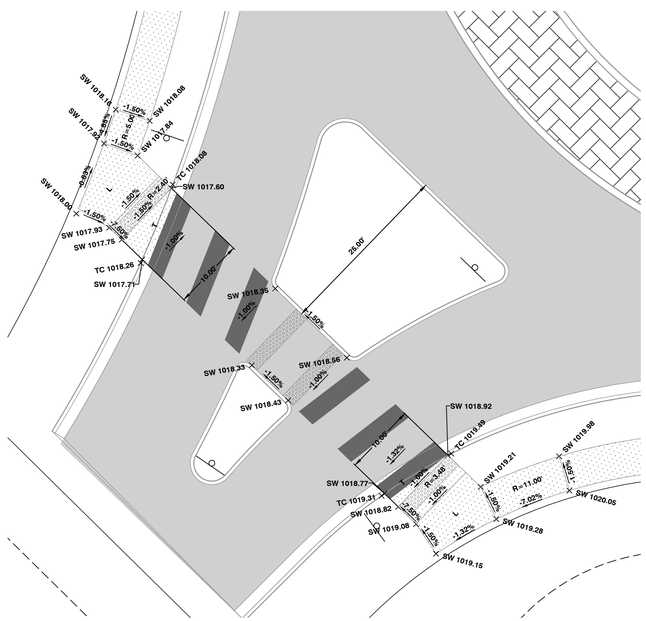
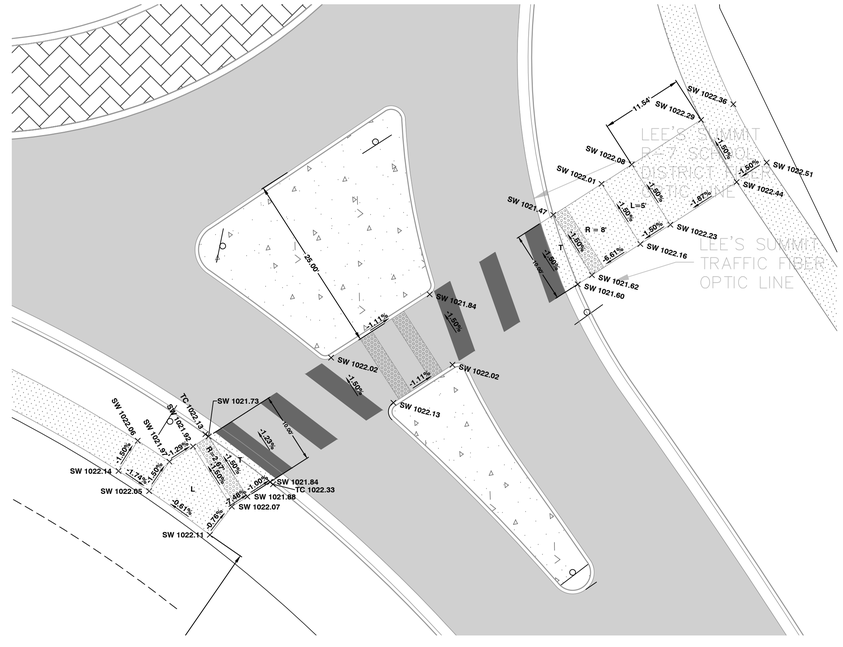
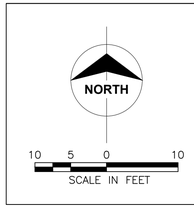


SW ENTRANCE CURB RAMP DETAILS



BLUE PARKWAY (SE) CURB RAMP DETAILS

LEE'S SUMMIT
RDA - SOUTH
DISTRICT
TRAFFICE
LEE'S SUMMIT
TRAFFIC FIBER
OPTIC LINE



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Certificates of Authority
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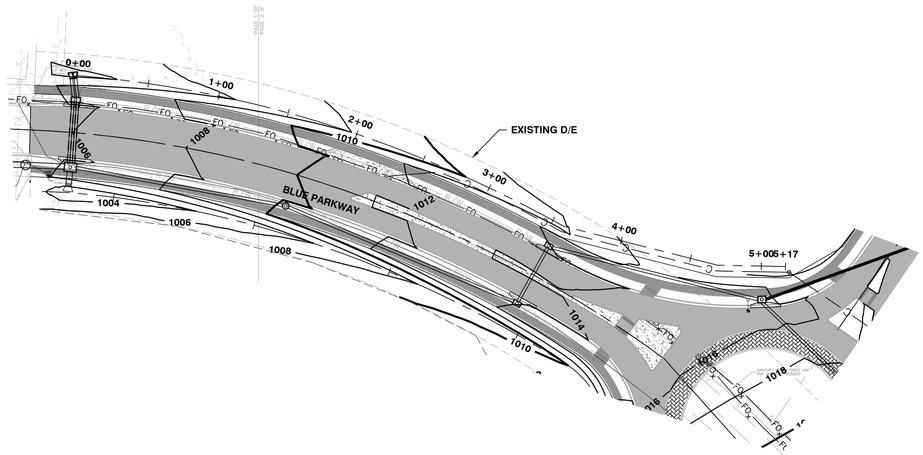
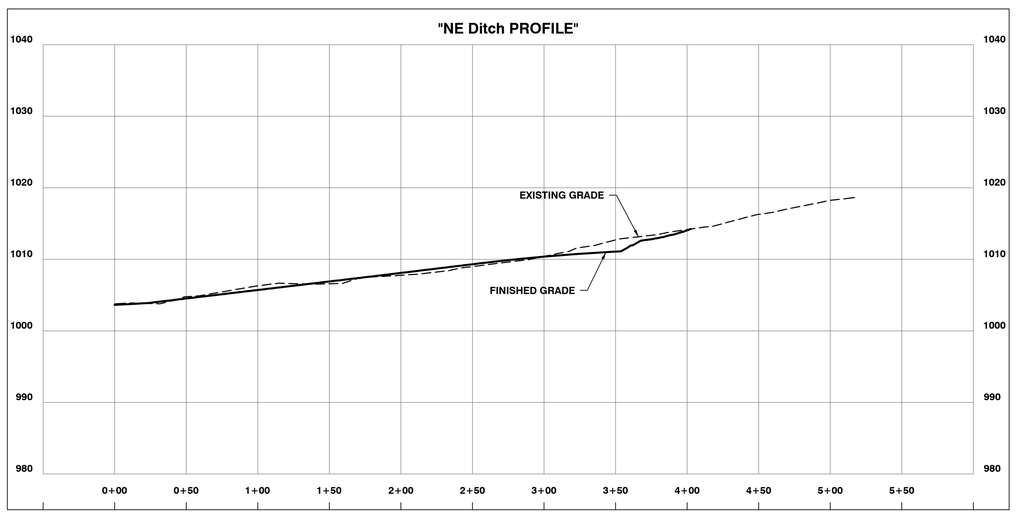
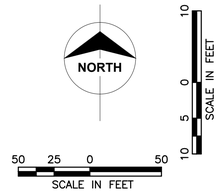
ADA CURB RAMP DETAILS







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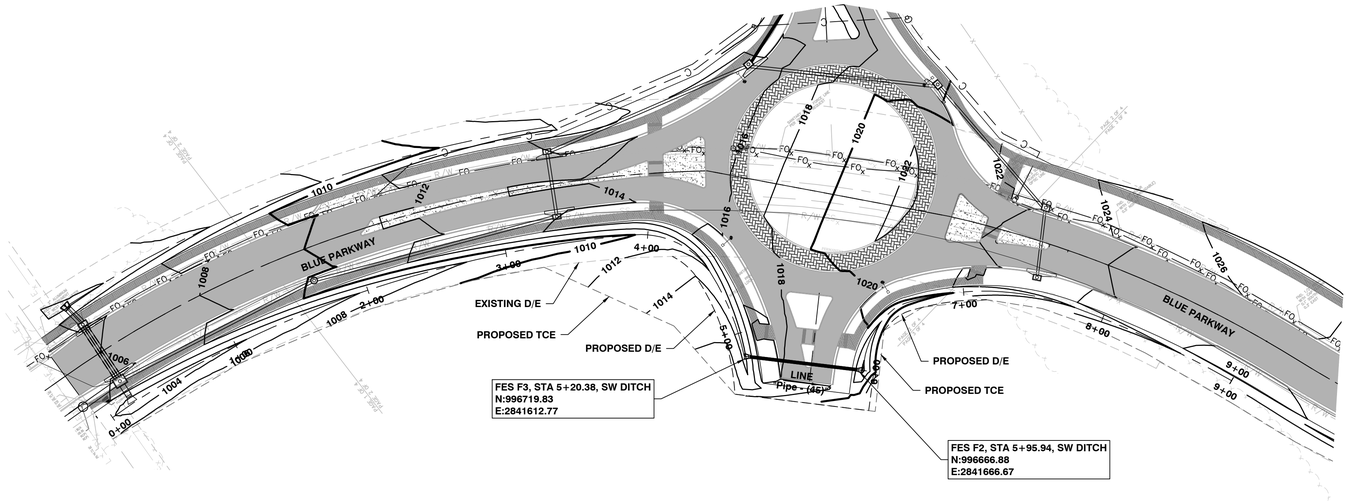

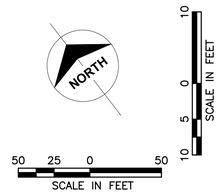

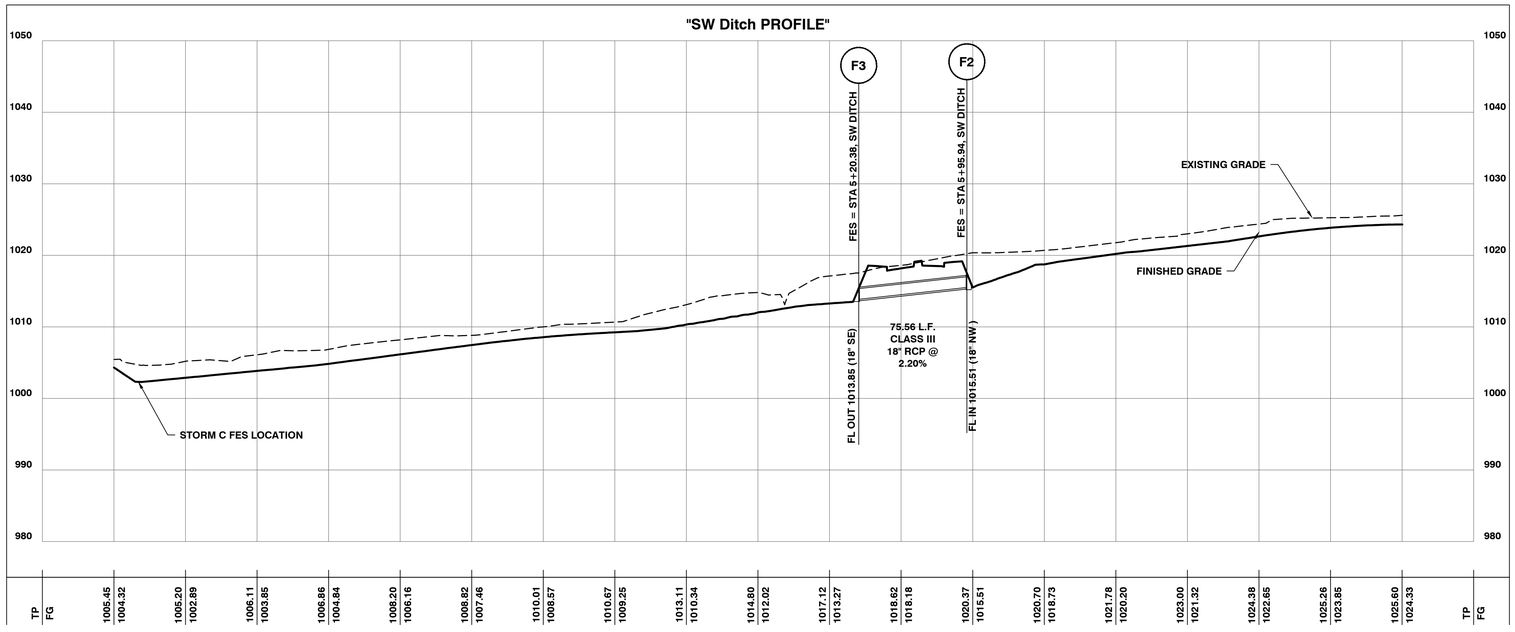

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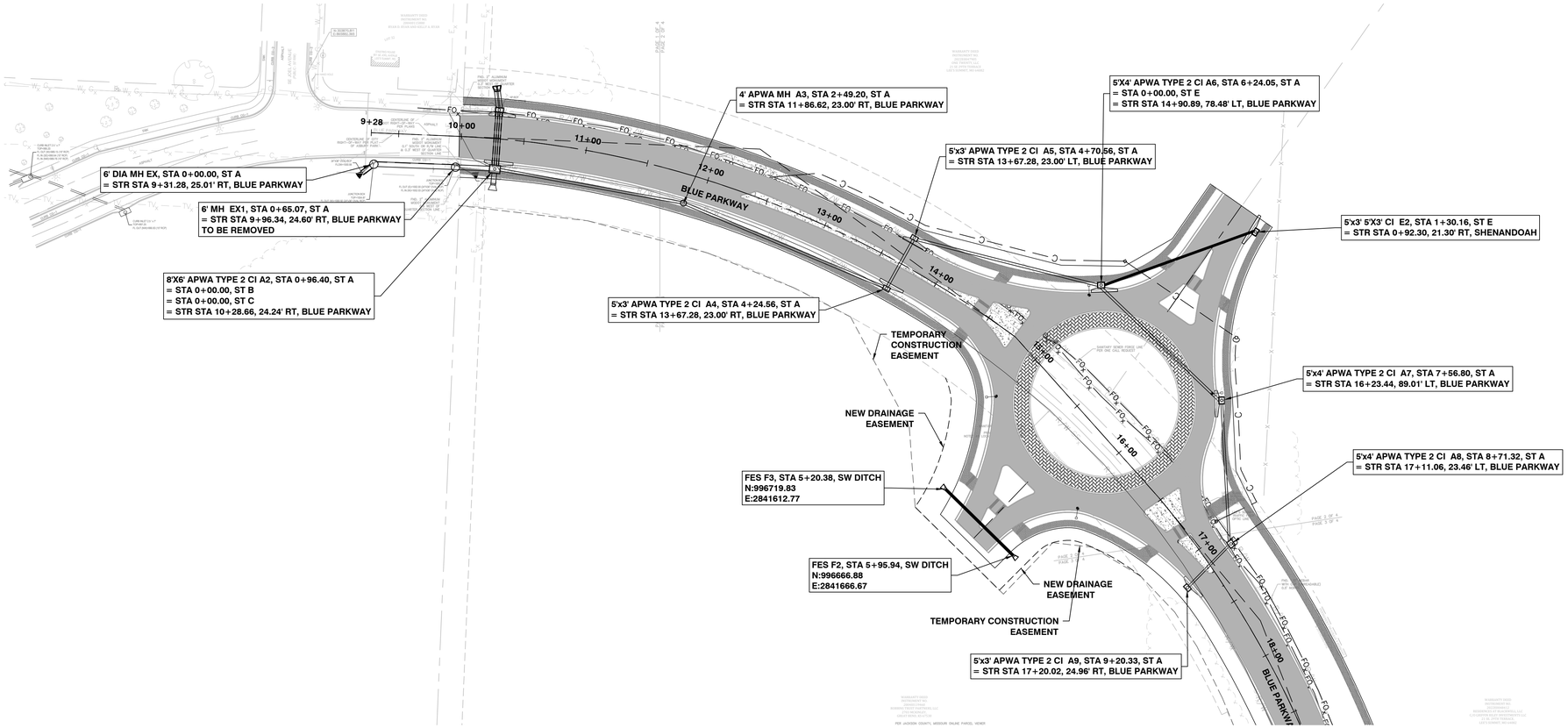

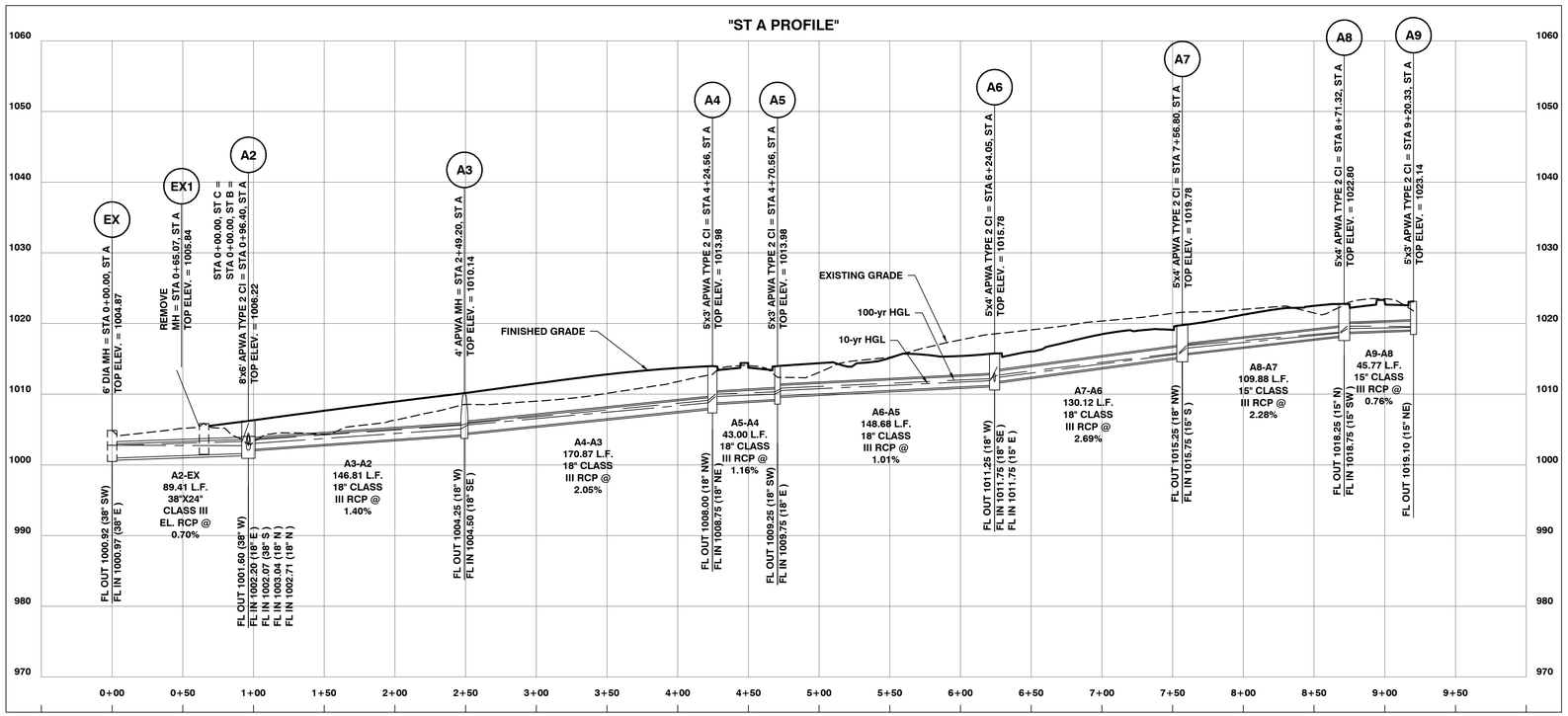

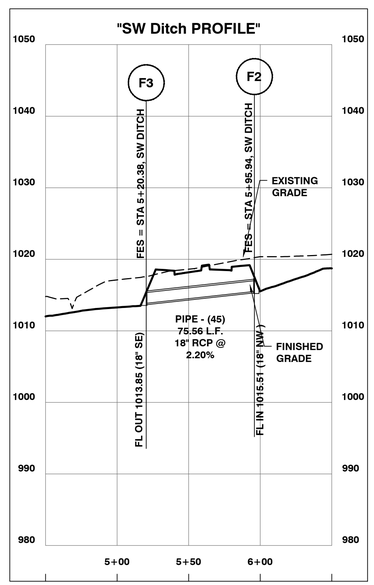

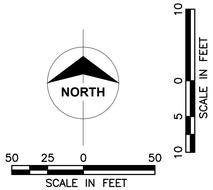

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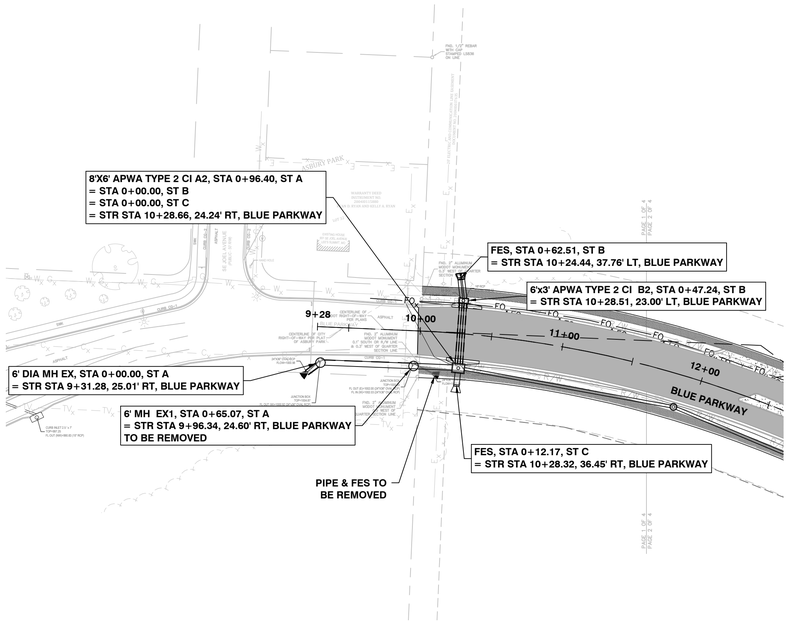

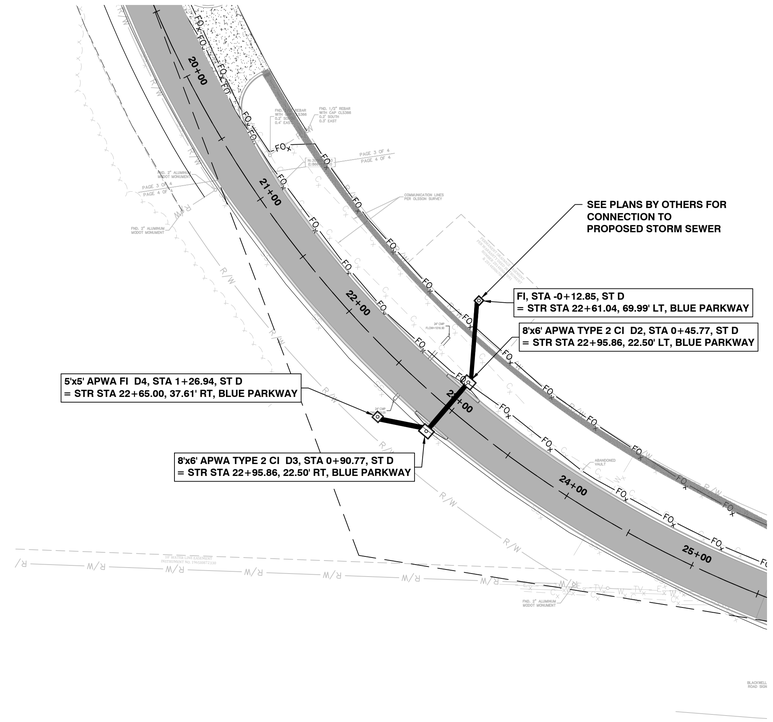

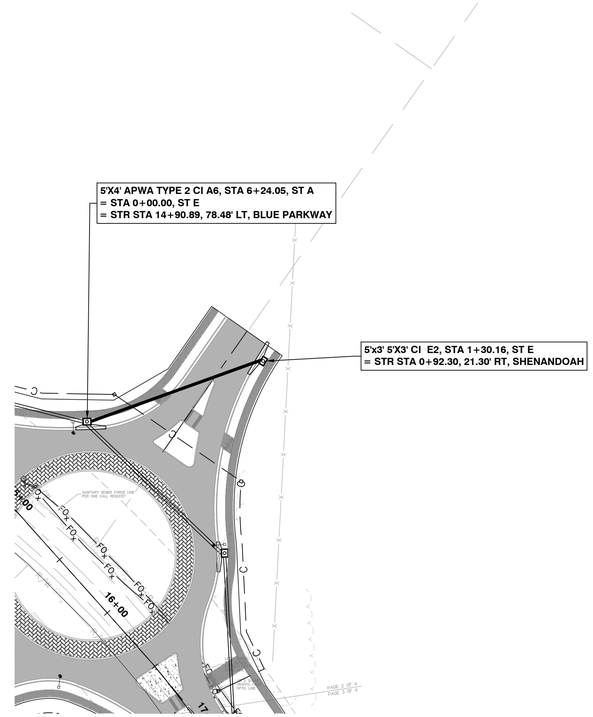

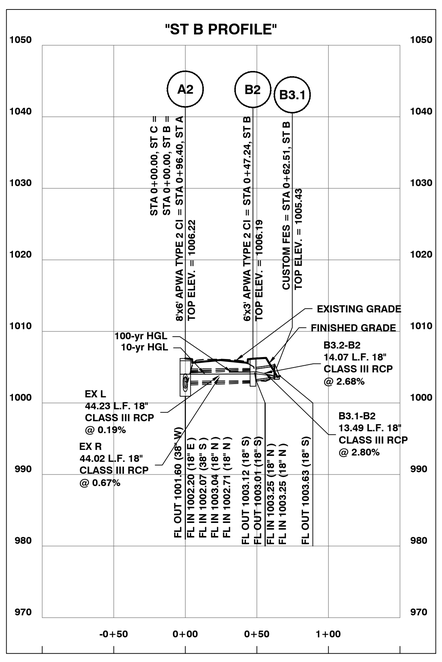

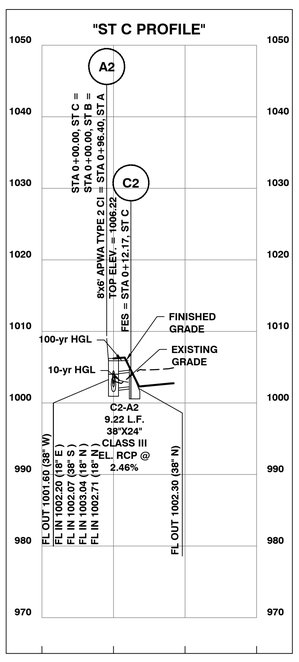

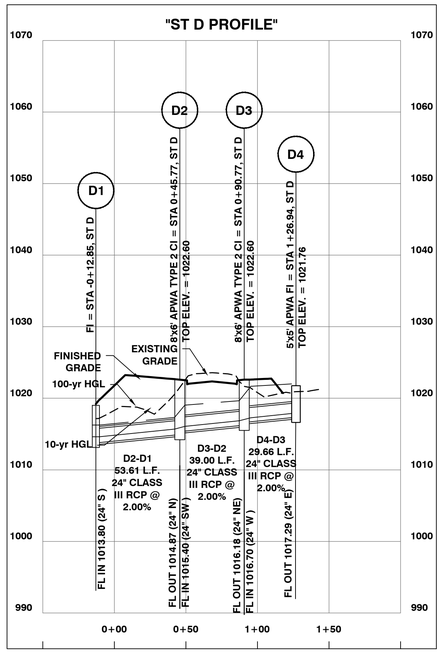

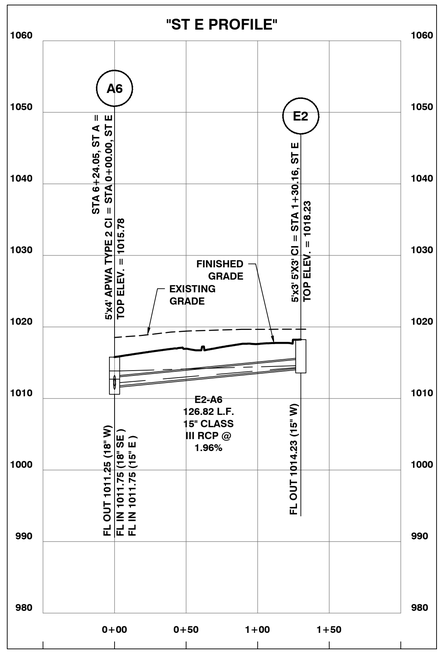

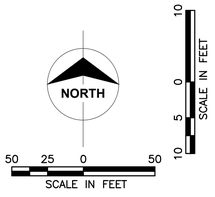

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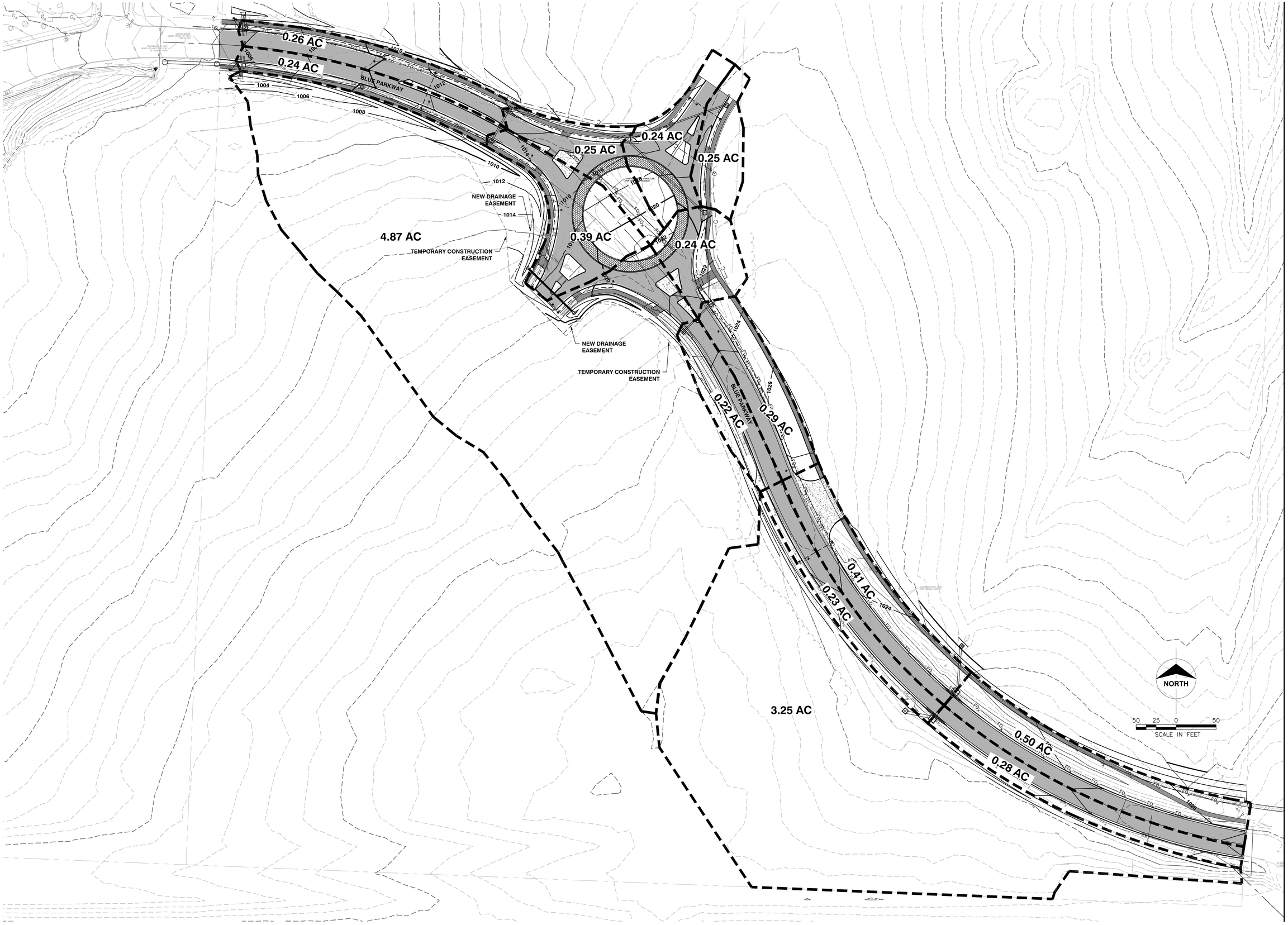

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STORM DRAINAGE MAP

Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. — Tuesday, Oct 10 2023

<Name>

Trapezoidal

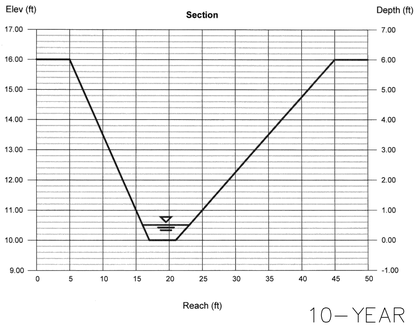
Bottom Width (ft)	= 4.00
Side Slopes (z:1)	= 2.00, 4.00
Total Depth (ft)	= 6.00
Invert Elev (ft)	= 10.00
Slope (%)	= 10.37
N-Value	= 0.030

Calculations

Compute by:	Known Q
Known Q (cfs)	= 23.91

Highlighted

Depth (ft)	= 0.51
Q (cfs)	= 23.91
Area (sqft)	= 2.82
Velocity (ft/s)	= 8.48
Wetted Perim (ft)	= 7.24
Crit Depth, Yc (ft)	= 0.84
Top Width (ft)	= 7.06
EGL (ft)	= 1.63



10-YEAR DS CHANNEL

Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. — Tuesday, Oct 10 2023

<Name>

Trapezoidal

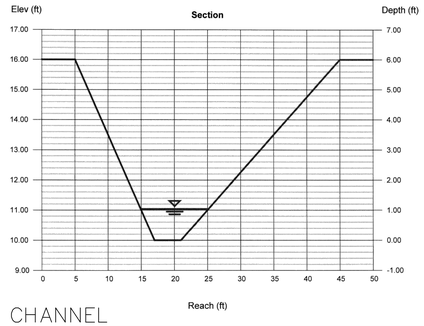
Bottom Width (ft)	= 4.00
Side Slopes (z:1)	= 2.00, 4.00
Total Depth (ft)	= 6.00
Invert Elev (ft)	= 10.00
Slope (%)	= 0.70
N-Value	= 0.030

Calculations

Compute by:	Known Q
Known Q (cfs)	= 23.91

Highlighted

Depth (ft)	= 1.04
Q (cfs)	= 23.91
Area (sqft)	= 7.40
Velocity (ft/s)	= 3.23
Wetted Perim (ft)	= 10.61
Crit Depth, Yc (ft)	= 0.84
Top Width (ft)	= 10.24
EGL (ft)	= 1.20



NOTE: EXISTING DOWNSTREAM CHANNEL IS PROTECTED WITH EROSION MATS

VALUES SHOWN ARE FOR MAXIMUM AND MINIMUM CHANNEL SLOPES TO THE STUDY EXTENTS.

Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. — Tuesday, Oct 10 2023

<Name>

Trapezoidal

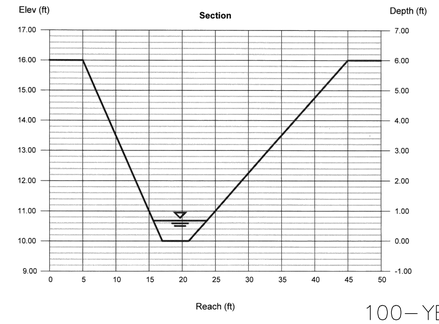
Bottom Width (ft)	= 4.00
Side Slopes (z:1)	= 2.00, 4.00
Total Depth (ft)	= 6.00
Invert Elev (ft)	= 10.00
Slope (%)	= 10.37
N-Value	= 0.030

Calculations

Compute by:	Known Q
Known Q (cfs)	= 40.55

Highlighted

Depth (ft)	= 0.68
Q (cfs)	= 40.55
Area (sqft)	= 4.11
Velocity (ft/s)	= 9.87
Wetted Perim (ft)	= 8.32
Crit Depth, Yc (ft)	= 1.12
Top Width (ft)	= 8.08
EGL (ft)	= 2.20



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<Name>

Trapezoidal

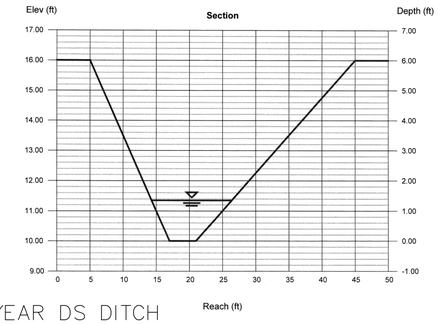
Bottom Width (ft)	= 4.00
Side Slopes (z:1)	= 2.00, 4.00
Total Depth (ft)	= 6.00
Invert Elev (ft)	= 10.00
Slope (%)	= 0.70
N-Value	= 0.030

Calculations

Compute by:	Known Q
Known Q (cfs)	= 40.55

Highlighted

Depth (ft)	= 1.35
Q (cfs)	= 40.55
Area (sqft)	= 10.87
Velocity (ft/s)	= 3.73
Wetted Perim (ft)	= 12.58
Crit Depth, Yc (ft)	= 1.12
Top Width (ft)	= 12.10
EGL (ft)	= 1.57



100-YEAR DS DITCH

INLET INTERCEPT AND GUTTER SPREAD TABLE

TITLE: Blue Parkway
JOB #: 22-2087

Type A:CG-2
Type B:CG1

Slope #	Inlet	Area Number	Area (Acres)	Street Slope (ft/ft)	Max Gutter Flow (cfs)	Gutter Flow, cfs (+bypass) Q-10 yr	Q- 100 yr	Cross Slope (%)	Gutter Spread (ft) 10 yr	100 yr	Inlet Length (ft)	Curb Type (A or B)	Inlet Intercept 10-Year	100-Year	Inlet Bypass 10-Year	100-Year
11	A-9	1	0.22	2.23	5.90	1.00	1.76	2	5.93	7.83	5	B	1.00	1.68	0.01	0.08
6	A-8	2	0.29	3	4.11	1.22	2.13	2	6.03	7.95	5	B	1.18	1.95	0.03	0.18
10	A-7	3	0.24	3.87	7.77	1.11	2.07	2	5.56	7.52	5	B	1.08	1.87	0.03	0.20
8	A-6	4	0.24	2.5	6.25	1.06	1.86	2	5.93	7.82	5	B	1.05	1.75	0.01	0.10
9	A-5	5	0.25	1	3.95	1.24	2.27	2	7.48	9.86	5	B	1.24	2.19	0.00	0.07
3	A-4	6	0.39	1	2.37	1.95	3.49	2	8.86	11.51	5	B	1.91	3.22	0.04	0.27
2	A-2	7	0.24	2.5	3.75	1.36	2.38	2	6.51	8.54	8	B	1.33	2.24	0.03	0.14
2	B-2	8	0.26	2.5	3.75	1.57	2.72	2	6.88	8.94	6	B	1.52	2.46	0.05	0.25
7	D-3 (N)	9	0.23	1	2.37	1.12	1.96	2	7.18	9.37	8	B	1.12	1.93	0.00	0.03
7	D-3 (S)	10	0.28	1	2.37	1.36	2.38	2	7.73	10.04	8	B	1.35	2.33	0.00	0.06
-	D-3 (low point)	910	0.51	0	-	2.48	4.34	2	-	-	8	B	2.48	4.34	0.00	0.00
7	D-2 (N)	11	0.41	1	2.37	1.90	3.33	2	8.76	11.32	8	B	1.87	3.17	0.03	0.16
7	D-2 (S)	12	0.50	1	2.37	2.06	3.61	2	9.03	11.65	8	B	2.02	3.41	0.03	0.20
-	D-2 (low point)	1112	0.91	0	-	3.98	6.99	2	-	-	8	B	3.98	6.99	0.00	0.00

Storm Sewer Tabulation 10-YEAR

Page 1

Station Line	Station To Line	Len (ft)	Drng Area Incr (ac)	Drng Area Total (ac)	Rnoff coeff (C)	Area x C Incr	Area x C Total	Tc Inlet (min)	Tc Syst (min)	Rain (I) (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe Size (in)	Pipe Slope (%)	Invert Elev Dn (ft)	Invert Elev Up (ft)	HGL Elev Dn (ft)	HGL Elev Up (ft)	Grnd / Rim Elev Dn (ft)	Grnd / Rim Elev Up (ft)	Line ID
18	17	50.000	3.25	3.25	0.30	0.98	0.98	6.0	6.0	9.9	9.67	44.55	7.25	30	1.18	1016.70	1017.29	1017.49	1018.08	1022.60	1022.75	D4-D3
17	16	39.000	0.51	3.76	0.66	0.34	1.31	5.0	6.4	9.8	13.15	58.00	9.55	30	2.00	1015.40	1016.18	1016.21	1016.99	1022.60	1022.60	D3-D2
16	End	53.610	0.91	4.67	0.60	0.55	1.86	5.0	6.7	9.7	18.79	57.94	7.27	30	2.00	1013.80	1014.87	1016.08	1015.85	1019.89	1022.60	D2-D1
15	6	127.000	0.25	0.25	0.60	0.15	0.15	5.0	5.0	10.3	1.55	9.31	4.77	15	1.77	1011.75	1014.00	1012.20	1014.35	1015.77	1018.23	E2-A6
14	2	9.717	4.87	4.87	0.33	1.61	1.61	5.0	5.0	10.3	16.59	51.40	3.34	24 x 38 e	1.34	1002.07	1002.20	1005.97	1005.99	1006.22	1006.20	C2-C1
13	11	14.070	0.21	0.21	0.30	0.06	0.06	5.0	5.0	10.3	0.65	17.26	0.37	18	2.70	1003.25	1003.63	1005.26	1005.26	1006.19	1005.43	B3.2-B2
12	10	13.490	0.21	0.21	0.30	0.06	0.06	5.0	5.0	10.3	0.65	17.62	0.37	18	2.82	1003.25	1003.63	1005.26	1005.26	1006.19	1005.43	B3.1-B2
11	2	44.234	0.13	0.34	0.81	0.11	0.17	5.0	5.6	10.1	1.74	4.47	0.98	18	0.18	1003.04	1003.12	1005.24	1005.26	1006.22	1006.19	EX L
10	2	44.020	0.13	0.34	0.81	0.11	0.17	5.0	5.6	10.1	1.74	8.67	0.98	18	0.68	1002.71	1003.01	1005.24	1005.26	1006.22	1006.19	EX R
9	8	45.772	0.22	0.22	0.62	0.14	0.14	5.0	5.0	10.3	1.41	5.65	3.82	15	0.76	1018.75	1019.10	1019.18	1019.53	1022.80	1023.14	A9-A8
8	7	109.880	0.29	0.51	0.57	0.17	0.30	5.0	5.7	10.1	3.11	9.74	7.06	15	2.28	1015.75	1018.25	1016.24	1018.74	1019.77	1022.80	A8-A7
7	6	130.118	0.24	0.75	0.61	0.15	0.45	5.0	6.4	9.8	4.63	17.22	8.26	18	2.69	1011.75	1015.25	1012.28	1015.78	1015.77	1019.77	A7-A6
6	5	148.680	0.24	1.24	0.60	0.14	0.74	5.0	7.2	9.5	7.66	10.55	6.51	18	1.01	1009.75	1011.25	1010.70	1012.20	1013.98	1015.77	A6-A5
5	4	43.000	0.25	1.49	0.67	0.17	0.91	5.0	7.8	9.3	9.39	11.32	7.16	18	1.16	1008.75	1009.25	1009.79	1010.29	1013.98	1013.98	A5-A4
4	3	170.869	0.39	1.88	0.68	0.27	1.17	5.0	7.9	9.2	12.13	31.19	7.16	24	1.90	1004.25	1007.50	1005.69	1008.37	1010.23	1013.98	A4-A3
3	2	146.810	0.00	1.88	0.75	0.00	1.17	5.0	8.7	9.0	12.13	26.73	3.91	24	1.40	1001.70	1003.75	1005.24	1005.62	1006.22	1010.23	A3-A2
2	1	89.410	0.24	7.67	0.77	0.18	3.30	5.0	9.3	8.8	34.10	37.30	6.86	24 x 38 e	0.70	1000.97	1001.60	1003.12	1003.60	1004.87	1006.22	A2-EX
1	End	11.740	0.00	7.67	0.77	0.00	3.30	5.0	9.5	8.7	34.10	18.32	6.91	24 x 38 e	0.17	1000.90	1000.92	1002.86	1002.25	0.00	1004.87	EX-Out

Storm Sewer Tabulation 100-YEAR

Page 1

Station Line	Station To Line	Len (ft)	Drng Area Incr (ac)	Drng Area Total (ac)	Rnoff coeff (C)	Area x C Incr	Area x C Total	Tc Inlet (min)	Tc Syst (min)	Rain (I) (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe Size (in)	Pipe Slope (%)	Invert Elev Dn (ft)	Invert Elev Up (ft)	HGL Elev Dn (ft)	HGL Elev Up (ft)	Grnd / Rim Elev Dn (ft)	Grnd / Rim Elev Up (ft)	Line ID
18	17	50.000	3.25	3.25	0.38	1.24	1.24	6.0	6.0	9.9	12.25	44.55	7.74	30	1.18	1016.70	1017.29	1017.60	1018.19	1022.60	1022.75	D4-D3
17	16	39.000	0.51	3.76	0.83	0.42	1.66	5.0	6.3	9.8	16.62	58.00	8.98	30	2.00	1015.40	1016.18	1016.53	1017.10	1022.60	1022.60	D3-D2
16	End	53.610	0.91	4.67	0.75	0.68	2.34	5.0	6.5	9.7	23.67	57.94	5.84	30	2.00	1013.80	1014.87	1016.32	1016.53	1019.89	1022.60	D2-D1
15	6	127.000	0.25	0.25	0.84	0.21	0.21	5.0	5.0	10.3	2.17	9.31	2.80	15	1.77	1011.75	1014.00	1013.84	1014.59	1015.77	1018.23	E2-A6
14	2	9.717	4.87	4.87	0.41	2.00	2.00	5.0	5.0	10.3	20.61	51.40	4.14	24 x 38 e	1.34	1002.07	1002.20	1007.89	1007.91	1006.22	1006.20	C2-C1
13	11	14.070	0.21	0.21	0.38	0.08	0.08	5.0	5.0	10.3	0.82	17.26	0.47	18	2.70	1003.25	1003.63	1006.75	1006.75	1006.19	1005.43	B3.2-B2
12	10	13.490	0.21	0.21	0.38	0.08	0.08	5.0	5.0	10.3	0.82	17.62	0.47	18	2.82	1003.25	1003.63	1006.75	1006.75	1006.19	1005.43	B3.1-B2
11	2	44.234	0.13	0.34	1.00	0.13	0.21	5.0	5.5	10.1	2.17	4.47	1.23	18	0.18	1003.04	1003.12	1006.72	1006.73	1006.22	1006.19	EX L
10	2	44.020	0.13	0.34	1.00	0.13	0.21	5.0	5.5	10.1	2.17	8.67	1.23	18	0.68	1002.71	1003.01	1006.72	1006.73	1006.22	1006.19	EX R
9	8	45.772	0.22	0.22	0.71	0.16	0.16	5.0	5.0	10.3	1.61	5.65	3.97	15	0.76	1018.75	1019.10	1019.21	1019.56	1022.80	1023.14	A9-A8
8	7	109.880	0.29	0.51	0.76	0.22	0.38	5.0	5.6	10.1	3.89	9.74	7.49	15	2.28	1015.75	1018.25	1016.30	1018.80	1019.77	1022.80	A8-A7
7	6	130.118	0.24	0.75	0.75	0.18	0.56	5.0	6.2	9.9	5.75	17.22	4.14	18	2.69	1011.75	1015.25	1013.84	1016.17	1015.77	1019.77	A7-A6
6	5	148.680	0.24	1.24	0.84	0.20	0.97	5.0	6.8	9.6	9.99	10.55	5.66	18	1.01	1009.75	1011.25	1011.78	1013.13	1013.98	1015.77	A6-A5
5	4	43.000	0.25	1.49	0.85	0.21	1.18	5.0	7.3	9.5	12.19	11.32	7.26	18	1.16	1008.75	1009.25	1010.07	1010.65	1013.98	1013.98	A5-A4
4	3	170.869	0.39	1.88	0.94	0.37	1.55	5.0	7.4	9.4	15.97	31.19	5.84	24	1.90	1004.25	1007.50	1007.55	1008.94	1010.23	1013.98	A4-A3
3	2	146.810	0.00	1.88	0.96	0.00	1.55	5.0	7.9	9.2	15.97	26.73	5.08	24	1.40	1001.70	1003.75	1006.72	1007.45	1006.22	1010.23	A3-A2
2	1	89.410	0.24	7.67	0.96	0.23	4.19	5.0	8.4	9.1	43.29	37.30	8.70	24 x 38 e	0.70	1000.97	1001.60	1003.22	1004.07	1004.87	1006.22	A2-EX
1	End	11.740	0.00	7.67	0.96	0.00	4.19	5.0	8.6	9.0	43.29	18.32	8.70	24 x 38 e	0.17	1000.90	1000.92	1002.78	1001.86	0.00	1004.87	EX-Out

POWELL CWM
ARCHITECTURE/ENGINEERING/SURVEYING
3200 S. State Route 291, Bldg. I, Independence, MO 64057
816.373.4800 | powellcwm.com

Certificates of Authority
Architecture: MO 318 / KS 73
Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

STATE OF MISSOURI
JADRIENNE S. RODELL-TIPTON
NUMBER PE-2021032725
PROFESSIONAL ENGINEER
10/17/23

Jadrienne S. Rodell-Tipton, PE
PE-2021032725 (MISSOURI #)

PREPARED FOR:
GRIFFIN RILEY
PROPERTY GROUP, LLC
21 SE 29th TERRACE,
LEE'S SUMMIT, MO 64082

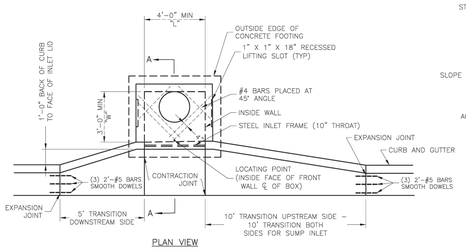
PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

REVISIONS
NO. DATE / DESCRIPTION
1
2
3
4
5
5
6

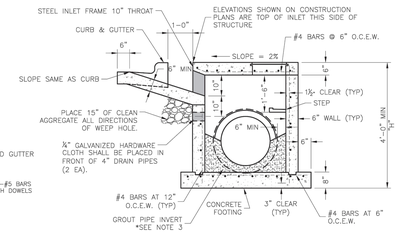
PROJECT #: 22-2087
ISSUE DATE: 03-28-2023

PERMIT

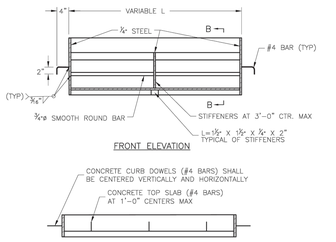
STORM DRAINAGE DATA



PLAN VIEW

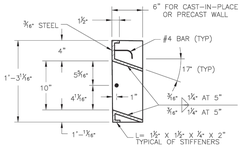


SECTION A–A

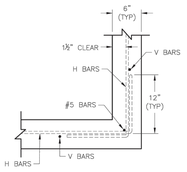


FRONT ELEVATION

PLAN VIEW



SECTION B–B



WALL CORNER DETAIL

GENERAL NOTES:
1. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.
2. FLOW LINES LISTED ON THE PROJECT PLANS ARE LISTED AT THE INSIDE FACE OF THE WALL.
3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
4. LOCATE MH RING AND COVER ON BLANK WALL IF POSSIBLE.
5. STEPS SHALL BE SPACED AT 1'-4" O.C. VERTICALLY ON BLANK WALL IF POSSIBLE.
6. BEVEL ALL EXPOSED EDGES WITH ¾"CHAMFER OR ½" TOOLED EDGE.
7. ON-GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. LIFTING RINGS SHALL BE REMOVED AND SEALED WITH NON-SHRINKABLE GROUT
10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

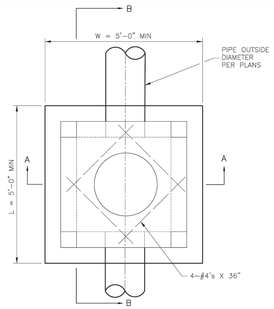
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

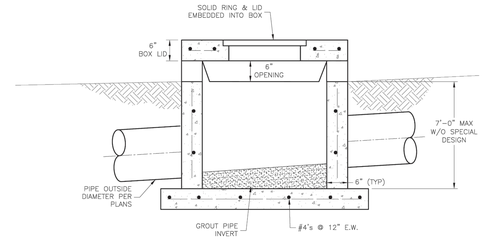
Project Name: CURB INLET DETAIL

Drawn By: MJF
Checked By: DL
Date: 05/2021
Proj. #:

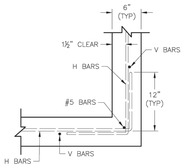
STM-1



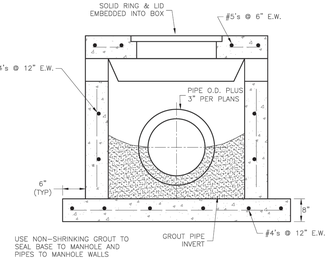
PLAN VIEW



SECTION B–B



WALL CORNER DETAIL



SECTION A–A

GENERAL NOTES:
1. LOCATE RING AND COVER OVER OUTLET ON BLANK WALL.
2. USE ¾" CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
4. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 3' ON BLANK WALL IF POSSIBLE.
5. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE.
6. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
7. SHOW FIELD INLET ORIENTATION ON PLANS PLUS NUMBER AND SIDE OF OPENINGS.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

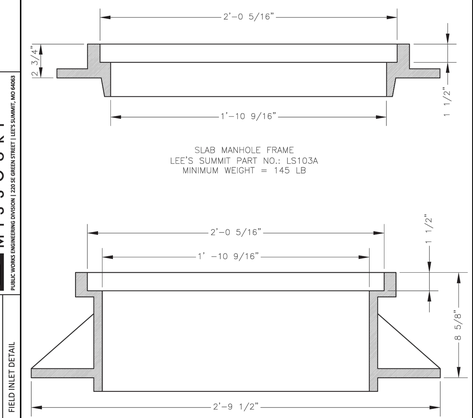
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

Project Name: FIELD INLET DETAIL

Drawn By: MJF
Checked By: DL
Date: 05/2021
Proj. #:

STM-2



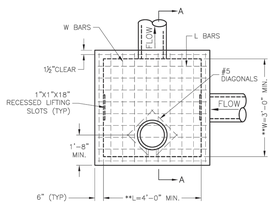
*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCTS LIST.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

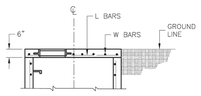
STORM MANHOLE FRAME DETAIL

Date: 05/2021
Drawn By: MJF
Checked By: DL

DWG-7



PLAN

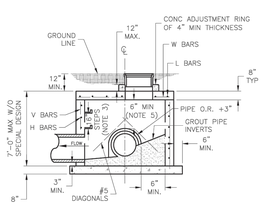


SLAB TOP ALTERNATE FOR JUNCTION BOX (SHALLOW)

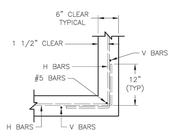
** INCREASE IN MULTIPLES OF 6" (7'-0") MAX WITHOUT SPECIAL DESIGN. (SEE PROJECT PLANS FOR DETAILS)

REINFORCING

BARS	BAR SIZE	SPACING (IN.)
H	4	12
V	4	12
L	5	6
W	5	6



SECTION A–A



WALL CORNER DETAIL

GENERAL NOTES:
1. LOCATE RING AND COVER ON BLANK WALL.
2. USE ¾" CHAMFER STRIP OR ½" R EDGER TOOL ON ALL EXPOSED CONCRETE CORNERS.
3. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 4' ON BLANK WALL IF POSSIBLE.
4. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE AND THE MINIMUM DISTANCE BETWEEN BOXOUTS IS 6".
5. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. REINFORCING OF COVERS IN STREETS REQUIRE SPECIAL DESIGN.
10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

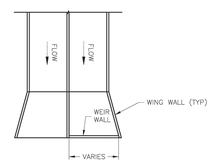
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

Project Name: JUNCTION BOX DETAIL

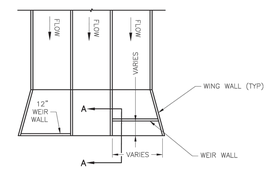
Drawn By: MJF
Checked By: DL
Date: 05/2021
Proj. #:

STM-3

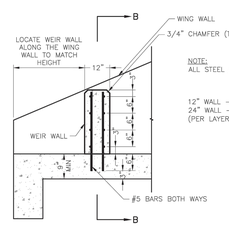


WEIR WALL INSTALLATION
DOUBLE BOX
N.T.S.

NOTE:
LOCATE WEIR WALL TO MATCH WING WALL HEIGHT



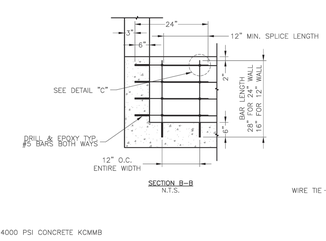
WEIR WALL INSTALLATION
TRIPLE BOX
N.T.S.



SECTION A–A
N.T.S

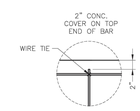
NOTE:
ALL STEEL #5 BARS – DEFORMED

12" WALL – (2) #5 BARS
24" WALL – (4) #5 BARS
(PER LAYER)



SECTION B–B
N.T.S.

NOTE: MIN. 4000 PSI CONCRETE KCMMB



DETAIL C
N.T.S.

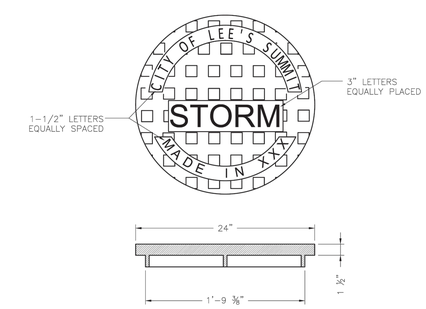
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

Project Name: WEIR WALL DETAIL

Drawn By: MJF
Checked By: DL
Date: 05/2021
Proj. #:

STM-4



STANDARD 24" MANHOLE COVER
MINIMUM WEIGHT = 160 LB
NOTE: PICK HOLES NOT SHOWN

*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCT LIST.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STORM MANHOLE COVER DETAIL

Date: 05/2021
Drawn By: MJF
Checked By: DL

STM-6

POWELL CWM
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Certificates of Authority
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Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

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NUMBER PE-2021032725
PROFESSIONAL ENGINEER
10/17/21

Jadrienne S. Rodell-Tipton, PE
PE-2021032725 (MISSOURI #)

PREPARED FOR:
GRIFFIN RILEY
PROPERTY GROUP, LLC
21 SE 29th TERRACE,
LEE'S SUMMIT, MO 64082

PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

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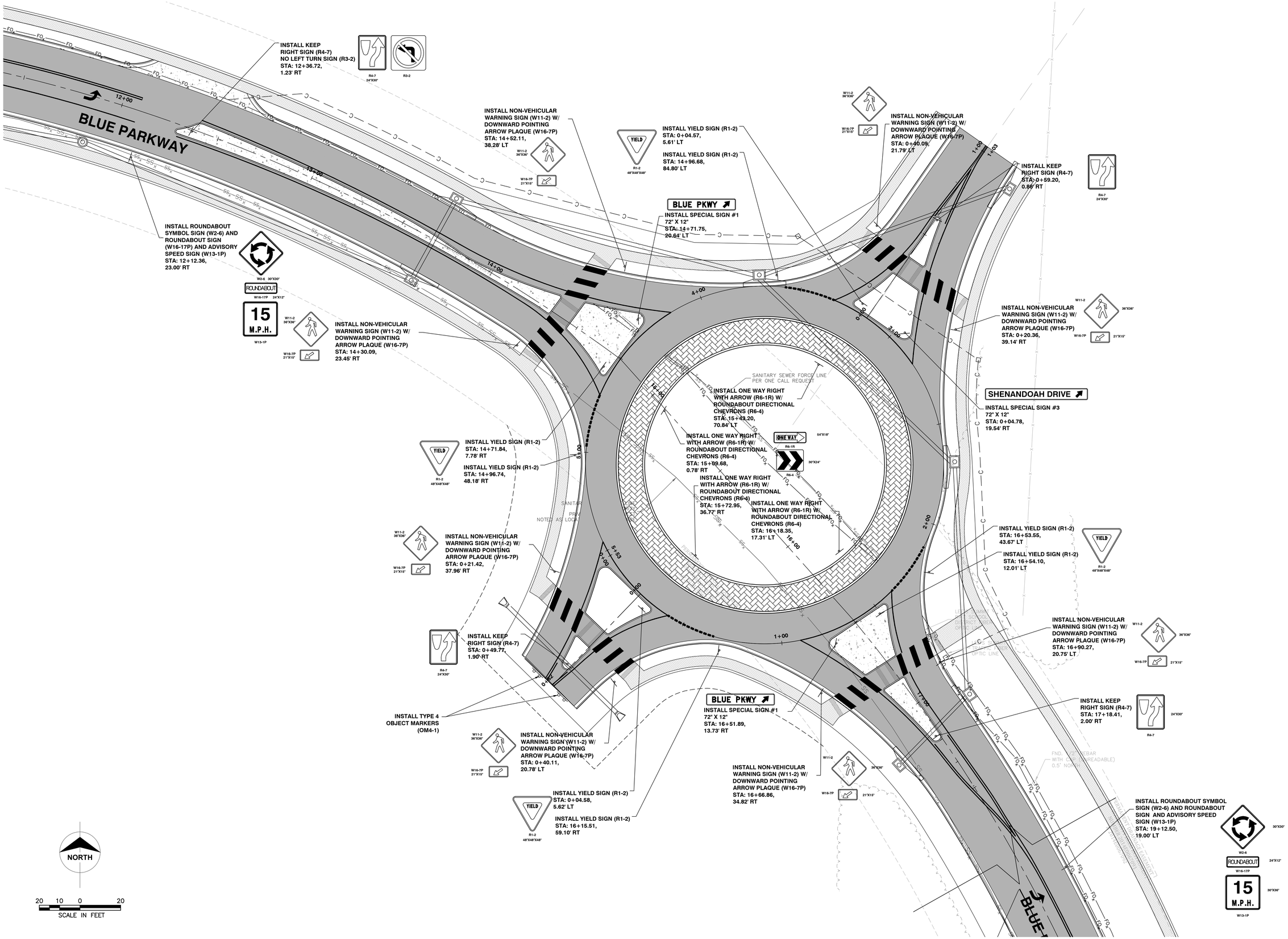
STORM DETAILS



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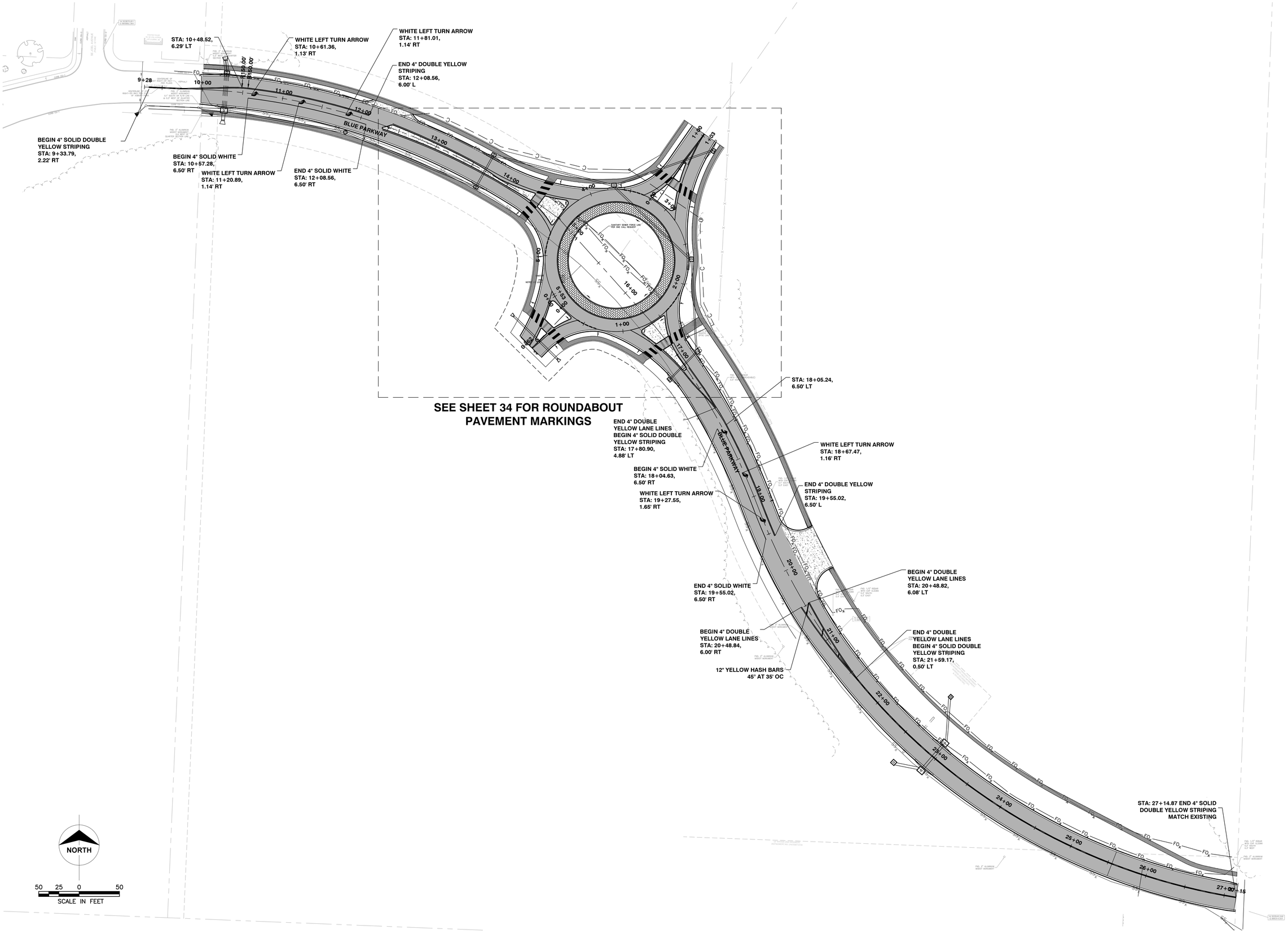
SIGNAGE PLAN



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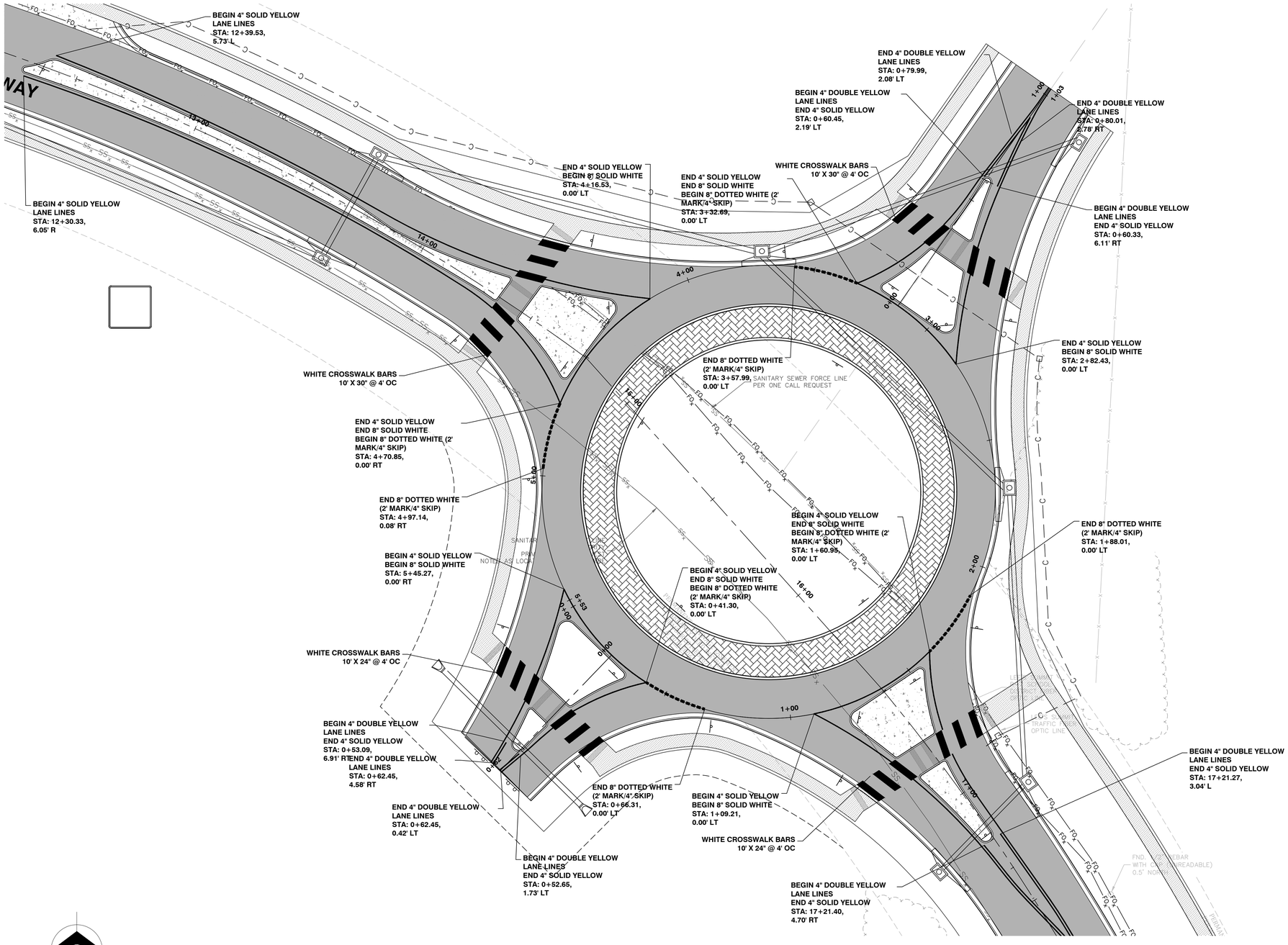
STRIPING PLAN



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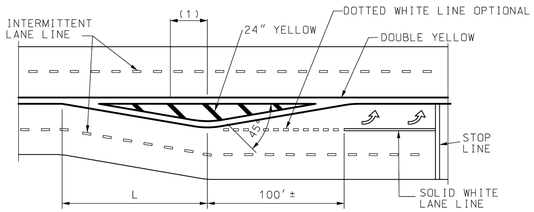
ROUNDABOUT STRIPING PLAN

L = LENGTH OF TAPER IN FEET.



MEDIAN ISLAND MARKING

GENERAL NOTES:

DOTTED LINES SHALL BE 3 FEET IN LENGTH SEPARATED BY 9 FOOT GAPS.

REFER TO THE STANDARD PLAN 626.00 WHEN INSTALLING PAVEMENT MARKINGS OVER RUMBLE STRIPS.

WIDE LINES ARE TWICE THE WIDTH OF NORMAL LINES.

LANE LINES SHALL BE AN INTERMITTENT OR SOLID WHITE.

INTERMITTENT LINES SHALL BE 10 FEET IN LENGTH SEPARATED BY 30 FOOT GAPS.

EDGELINES SHALL BE CONTINUOUS SOLID WHITE OR YELLOW LINES. RIGHT SIDE EDGELINES SHALL BE SOLID WHITE. MEDIAN OR LEFT SIDE EDGELINES ON DIVIDED HIGHWAYS AND ON THE LEFT SIDE OF RAMPS SHALL BE SOLID YELLOW. EDGELINES SHALL BE CONTINUOUS ACROSS DRIVEWAYS AND MINOR INTERSECTING ROADS.

"NO PASSING" LINES SHALL BE CONTINUOUS SOLID YELLOW.

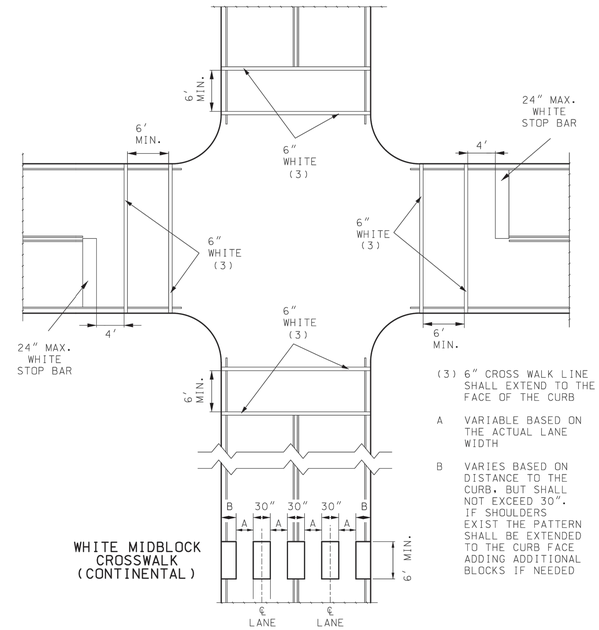
"NO PASSING" LINES SHALL BE PLACED AS SHOWN IN "LINE DETAIL". "NO PASSING" LINES ON A TWO-LANE, TWO-WAY HIGHWAY WHEN PASSING IS PROHIBITED IN EACH DIRECTION SHALL BE PLACED 4 INCHES APART AND THE INTERMITTENT CENTERLINE SHALL BE OMITTED.

STOP LINES SHALL BE A SOLID WHITE TRANSVERSE LINE 24 INCHES WIDE, LOCATED AT LEAST 4 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.

CROSSWALK LINES SHALL BE SOLID WHITE TRANSVERSE LINES 6 INCHES WIDE AT LEAST 6 FEET APART. CROSSWALK LINES ON THE INTERSECTION SIDE OF THE CROSSWALK SHALL MEET AT THE CURB.

GORE LINES SHALL BE A SOLID WHITE LINE WITH A WIDTH TWICE THAT OF THE EDGELINE.

ARROWS AND WORD SYMBOLS SHALL BE SOLID WHITE.



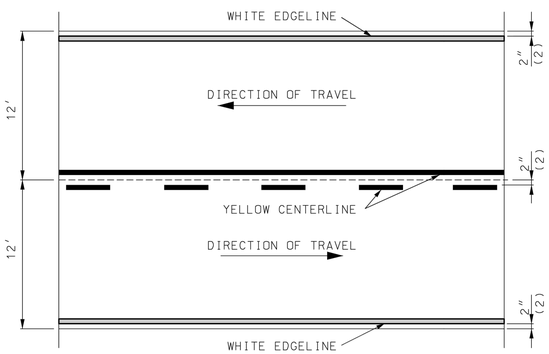
WHITE MIDBLOCK CROSSWALK (CONTINENTAL)

(3) 6" CROSS WALK LINE SHALL EXTEND TO THE FACE OF THE CURB

A VARIABLE BASED ON THE ACTUAL LANE WIDTH

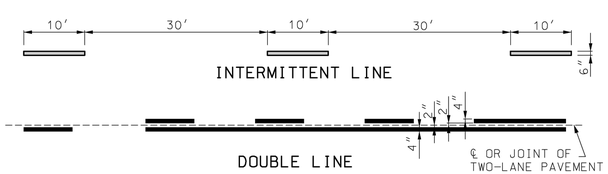
B VARIES BASED ON DISTANCE TO THE CURB, BUT SHALL NOT EXCEED 30". IF SHOULDERS EXIST THE PATTERN SHALL BE EXTENDED TO THE CURB FACE ADDING ADDITIONAL BLOCKS IF NEEDED

PEDESTRIAN CROSSWALKS



TWO-LANE TWO-WAY

TYPICAL STRIPING OFFSETS WITHOUT RUMBLE STRIPES



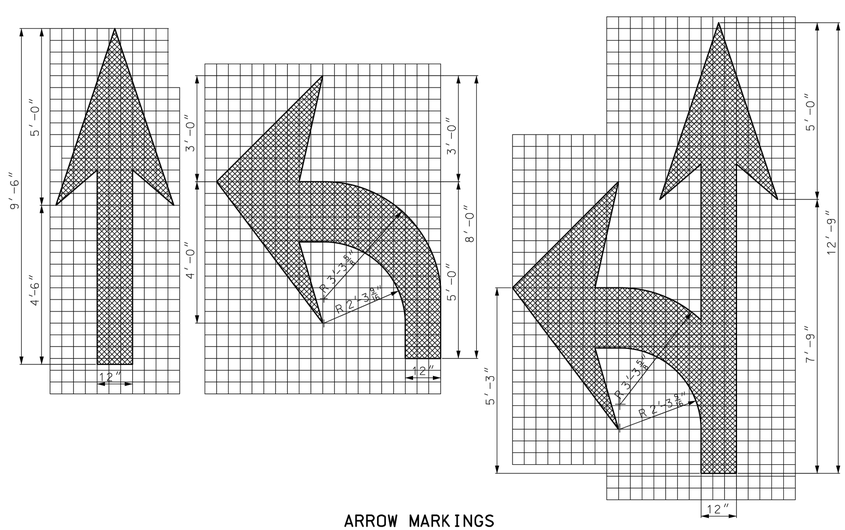
INTERMITTENT LINE

DOUBLE LINE

LINE DETAIL

LEGEND
WHITE LINE
YELLOW LINE

(1) OFFSET FROM EDGE OF TRAVELED WAY (TYP.)
(2) OFFSET FROM JOINT (TYP.)
(3) OFFSET FROM CENTERLINE (TYP.)



ARROW MARKINGS

TWO LANE USE CONTROL ARROWS FOR FIRST 200 FEET WITH ONE ADDITIONAL ARROW EVERY 400 FEET OF MANDATORY MOVEMENT LANE. FIRST ARROW 75 FEET FROM STOP LINE.

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10/17/24

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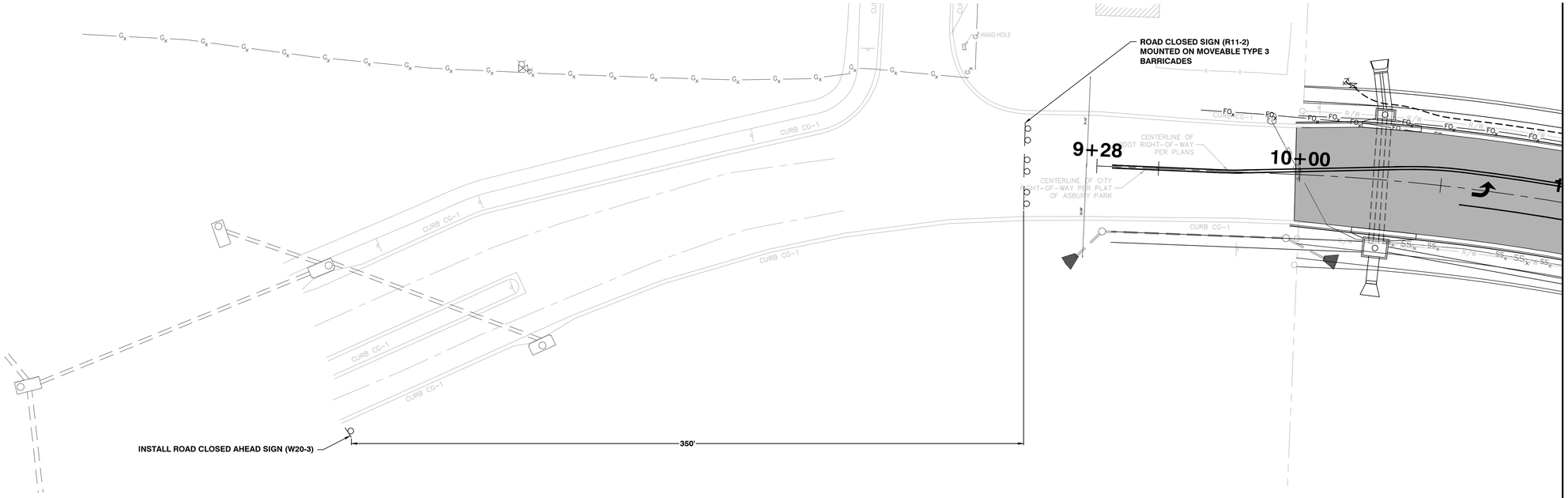
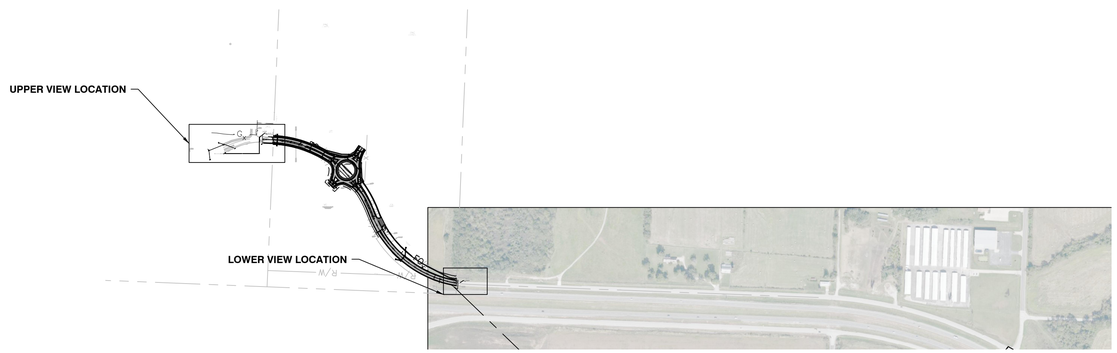
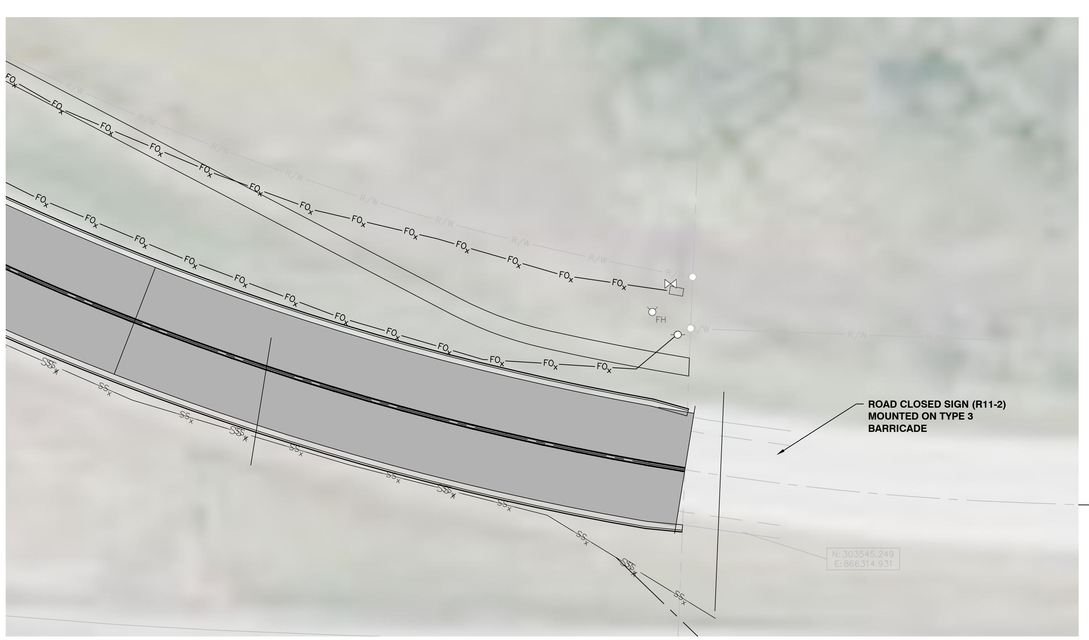
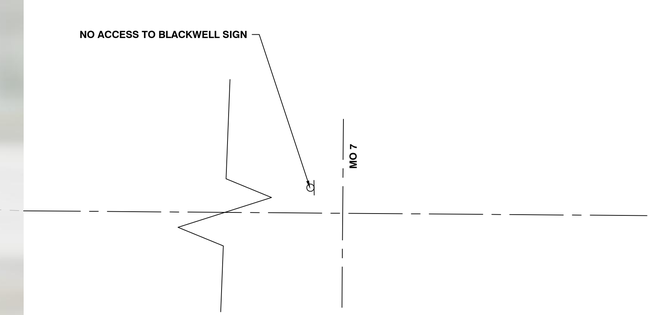
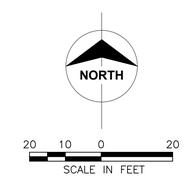
MARKING DETAILS











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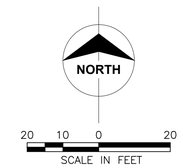
TEMPORARY TRAFFIC CONTROL PLAN



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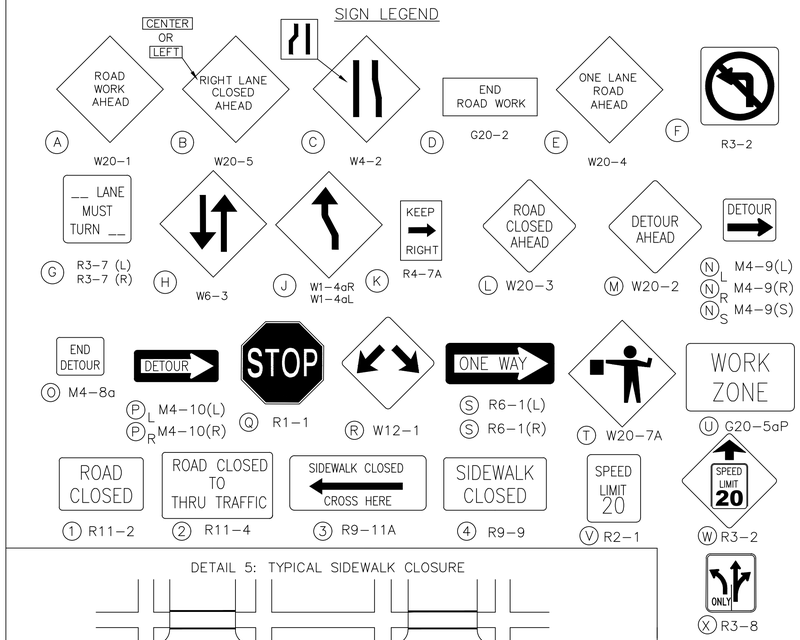
TRAFFIC CONTROL PLAN

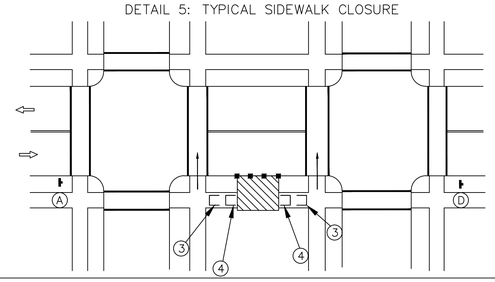
GENERAL NOTES:

1. All signs, barricades, drums, markings and other traffic control devices shall conform to the Manual on Uniform Traffic Control Devices (M.U.T.C.D.), most current edition.
2. All traffic control devices shall be standard in size, shape, color and message, in good condition, and reflectorized. All signs and barricades in place at night shall be reflectorized with high intensity sheeting. All signs shall be securely mounted with height and lateral location as described in the M.U.T.C.D.
3. Warning lights should be used on all channelization devices and warning signs per M.U.T.C.D. Type A Low–Intensity Flashing Warning lights should be mounted on warning signs as well as barricades where used singley to warn users of potentially hazardous areas during nighttime hours. Type B High–Intensity Flashing warning lights should be used during day and nighttime operations to increase awareness of potentially hazardous areas. Type C Steady–Burn lights should be mounted on barricades where used in series to delineate the edge of the travel way.
4. Advance Warning Arrow Panels shall be used for all lane closures on multi–lane streets but should not be used in lieu of proper traffic control signs, barricades and channelization devices.
5. Flaggers shall be used where indicated on the plans, where construction vehicles interact with normal traffic or where construction activities impose a restriction on traffic, as directed by the Engineer in charge of construction. Where flaggers are used, advance signing shall be erected as shown above or as specified in the M.U.T.C.D. Flaggers shall meet the requirements in the M.U.T.C.D. in regard to character, training, attire and behavior.
6. Channelization devices used in the street shall be either drums, cones or Trimline channelizers.
7. Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
8. The Contractor shall place as many barricades as needed to effectively shield pedestrians and traffic from exposed objects, excavations and construction activities. ADA Pedestrian Barricades shall be installed around all excavations left open during non–construction times or as directed by the Engineer in charge of construction.
9. Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.
10. Construction materials shall be kept off of sidewalks, consolidated in one location within City Right–Of–Way, and removed daily unless otherwise approved by the Engineer in charge of construction.
11. Dirt, mud and other construction debris on streets and sidewalks shall be removed immediately.
12. The Contractor shall not perform any work that will restrict traffic in any way between the hours of 7:00 a.m. and 8:30 a.m. or 4:30 p.m. and 6:00 p.m. unless prior approval has been given.
13. The Contractor shall be responsible for maintaining all traffic control devices on an around–the–clock basis, whether or not work is actively being pursued and any deficiencies noted shall be corrected immediately.
14. The traffic control requirements shown on these plans are minimum requirements only and do not attempt to address in depth the variety of situations that may occur once construction has started. In no way do the requirements shown on these plans relieve the contractor of his responsibility for selecting the proper traffic control devices and implementation procedures that will assure the safety of motorist, pedestrians, and workers at all times. Any additional quantities of traffic control devices necessary to complete the contract or as ordered by the Engineer shall be considered subsidiary to the contract bid price.
15. Construction vehicles parked along streets and construction signs shall not restrict sight distance for vehicles exiting at streets or any drives.
16. Should the contractor fail to enforce the traffic control plan or fail to clean, replace or otherwise maintain the traffic control devices when directed to do so by the Engineer or representative, the City/Controlling Jurisdiction may take one or more of the following actions:
    - A) Employ another agency to correct deficiencies in signing or warning devices and deduct the cost from the contractor's pay estimate
    - B) Suspend all pay Estimates until deficiencies are corrected.
    - C) Stop the work until deficiencies are corrected.
    - D) Place the contractor in default.
17. The Contractor shall keep roadway closures due to construction activities to a minimum and provide advanced notice to affected users.
18. The Contractor shall notify enforcement and emergency agencies before the start of construction to request their cooperation and to provide coordination of services when emergencies arise during the construction at the project site. When the contractor completes this notification with enforcement and emergency agencies, a report shall be furnished to the engineer on the status of incident management.
19. The Contractor should, at the request of the Engineer, place reduced speed limit signing and work zone speed limit signing in advance of all active work zone areas. Work zone speed limit reduction shall not be greater than 10 mph throughout construction areas without advanced signing in place. Contractor shall cover or replace all speed limit signs in conflict with the work zone speed limit throughout the construction area.

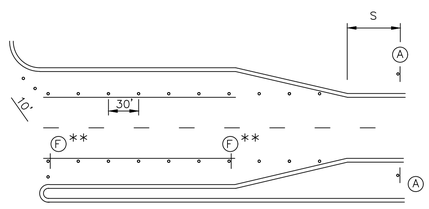
SIGN LEGEND



DETAIL 5: TYPICAL SIDEWALK CLOSURE



NOTE: SIGNS SHALL BE MOUNTED TO ADA BARRICADE



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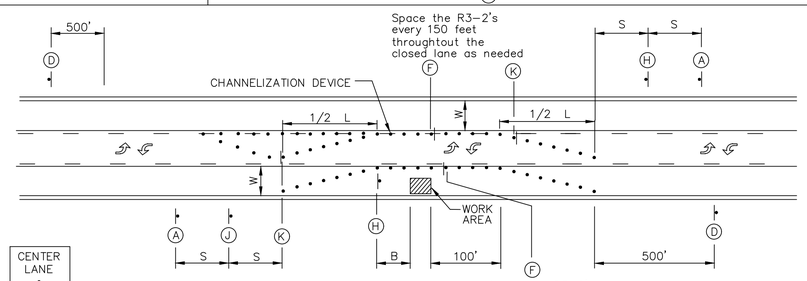
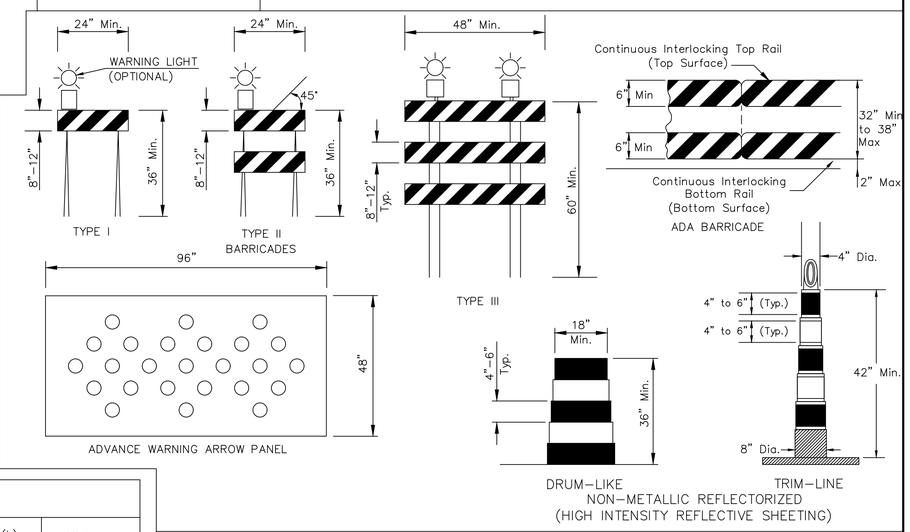
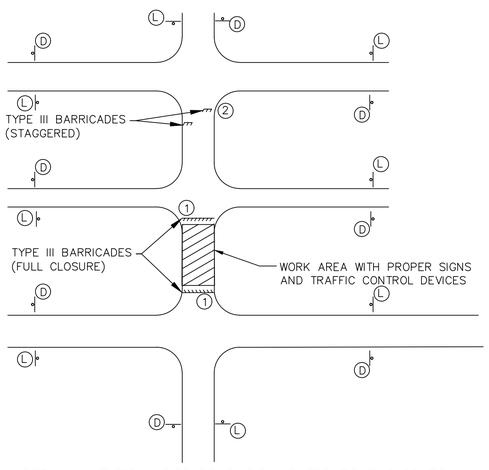
DETAIL 3: TYPICAL RIGHT–TURN LANE AND LEFT–TURN LANE CLOSURES



DETAIL 6: TYPICAL LANE CLOSURE – THREE–LANE STREET





DETAIL 4: TYPICAL SIDE ROAD SIGNING FOR ROAD CLOSURE

Guidelines for length of longitudinal buffer space (B)	
Speed* (mph)	Length (Feet)
20	35
25	55
30	85
35	120
40	170
45	220
50	300

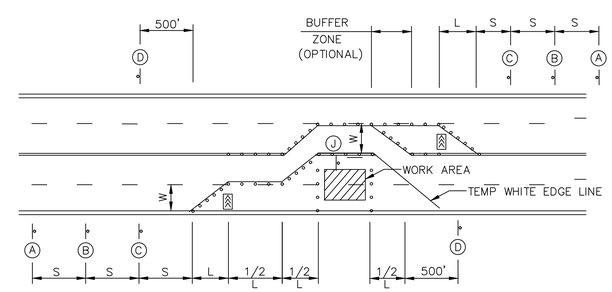
*Posted speed

SIGN SPACING(S)	
Speed Limit M.P.H.	Spacing (Feet)
≤ 30	100
35 – 45	350
≥ 55	500

MAXIMUM CHANNELIZATION SPACING IN FEET *		
Speed Limit M.P.H.	Along Taper	After Taper
20	20	40
25	25	50
30	30	60
35	35	70
40	40	80
45	45	90
50	50	100
55	55	100

TAPER DETAIL				
Speed Limit M.P.H.	Minimum Taper Length (L) Lane Width (W) 10	11	12	Minimum Number of Channelizing Devices for Taper
20	70	75	80	5
25	105	115	125	6
30	150	165	180	7
35	205	225	245	8
40	270	295	320	9
45	450	495	540	13
50	500	550	600	13
55	550	605	660	13

* The maximum distance in feet between devices in a taper should not exceed 1.0 times the speed limit in MPH.



DETAIL 7: TYPICAL LANE CLOSURE – FOUR–LANE STREET

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ARCHITECTURE/ENGINEERING/SURVEYING
3200 S. State Route 291, Bldg. I, Independence, MO 64057
816.373.8800 | powellcwm.com

Certificates of Authority
Architecture: MO 318 / KS 73
Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

STATE OF MISSOURI
JADRIENNE S. RODELL-TIPTON
NUMBER PE-2021032725
PROFESSIONAL ENGINEER
10/17/23

Jadrienne S. Rodell-Tipton, PE
PE-2021032725 (MISSOURI #)

PREPARED FOR:
GRIFFIN RILEY
PROPERTY GROUP, LLC
21 SE 29th TERRACE,
LEE'S SUMMIT, MO 64082

PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

REVISIONS
NO.	DATE / DESCRIPTION
1	
2	
3	
4	
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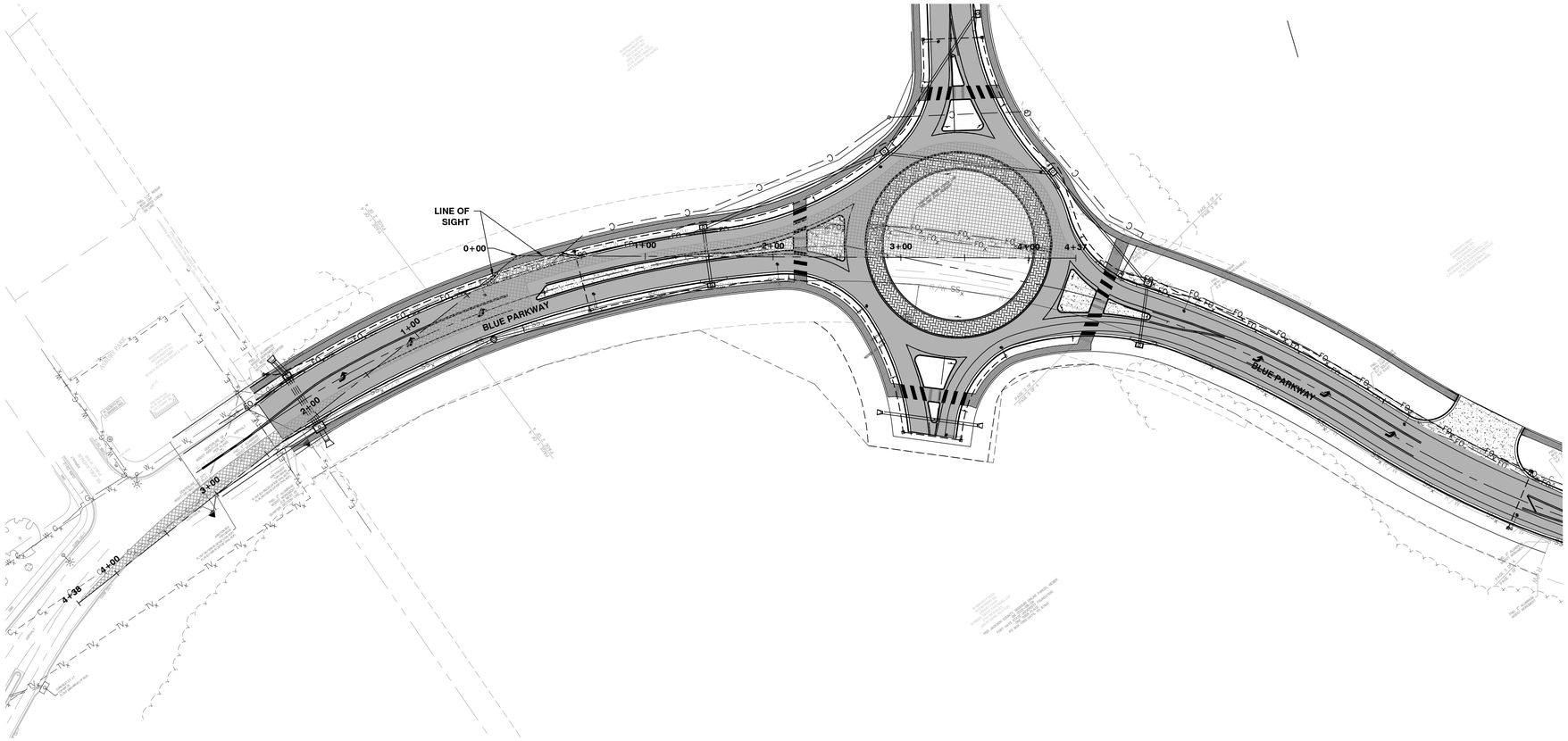
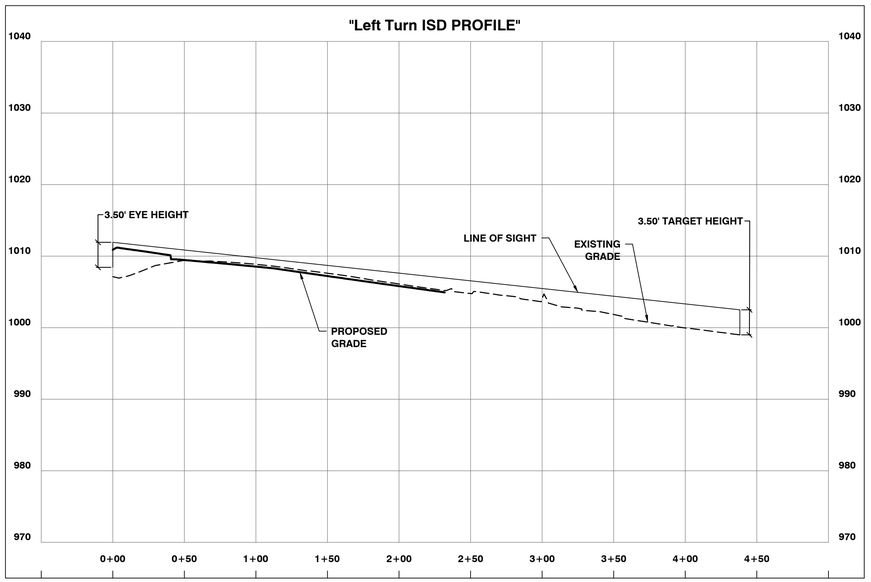
6	

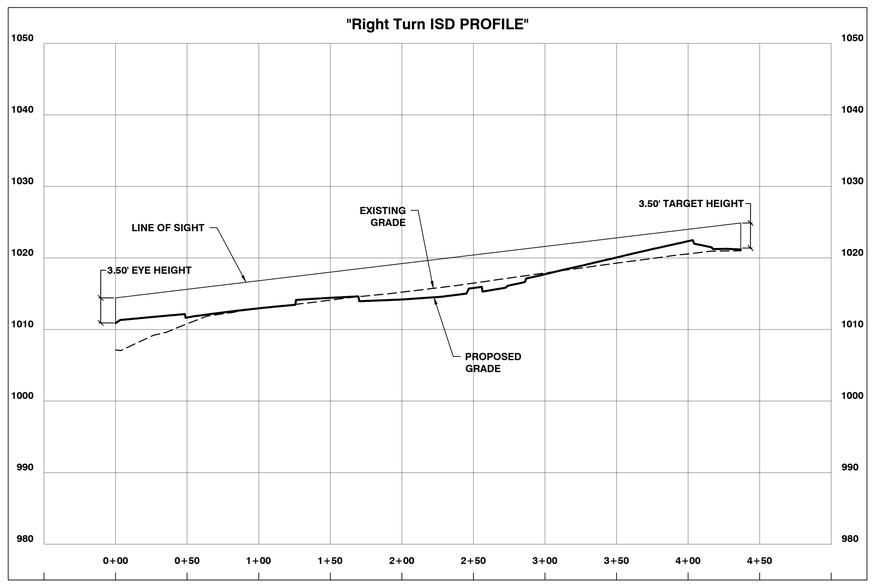
PROJECT #: 22-2087
ISSUE DATE: 03-28-2023

PERMIT

TRAFFIC CONTROL PLAN







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SCALE IN FEET

50 0 25 50
SCALE IN FEET

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STATE OF MISSOURI
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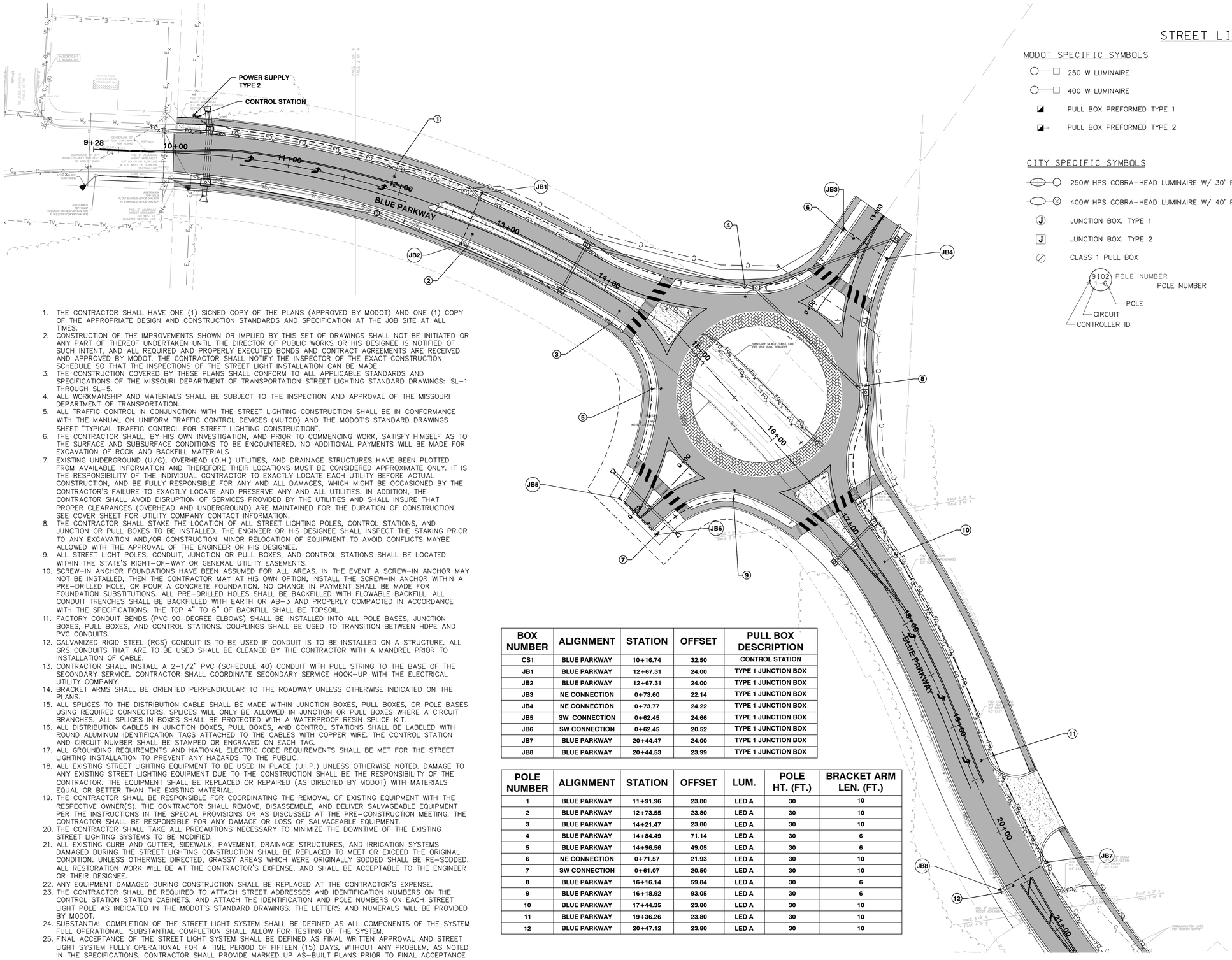
INTERSECTION
SIGHT DISTANCE



STREET LIGHT LEGEND

MODOT SPECIFIC SYMBOLS

- 250 W LUMINAIRE
- 400 W LUMINAIRE
- PULL BOX PREFORMED TYPE 1
- PULL BOX PREFORMED TYPE 2

CITY SPECIFIC SYMBOLS

- 250W HPS COBRA-HEAD LUMINAIRE W/ 30' POLE
- 400W HPS COBRA-HEAD LUMINAIRE W/ 40' POLE
- J — JUNCTION BOX. TYPE 1
- J — JUNCTION BOX. TYPE 2
- CLASS 1 PULL BOX

9102 1-6 — POLE NUMBER (POLE NUMBER; POLE; CIRCUIT; CONTROLLER ID)

- P.S. — POWER SUPPLY
- CONTROLLER, LIGHTING
- CONTROLLER, LIGHTING (EXISTING)
- WOOD POST
- POWER SOURCE
- JCT — JUNCTION BOX
- PULL BOX CONCRETE TYPE 1
- CONDUIT, RIGID (TRENCH)
- CONDUIT, RIGID (MEDIAN)
- CONDUIT, RIGID (EXISTING)
- CONDUIT, RIGID (PUSHED)
- CONDUIT, RIGID (BRIDGE)
- CABLE-CONDUIT (EXISTING)
- 1 — CABLE-CONDUIT WITH CIRCUIT NO.
- 10 — BOX NUMBER

1. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS (APPROVED BY MODOT) AND ONE (1) COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATION AT THE JOB SITE AT ALL TIMES.
2. CONSTRUCTION OF THE IMPROVEMENTS SHOWN OR IMPLIED BY THIS SET OF DRAWINGS SHALL NOT BE INITIATED OR ANY PART OF THEREOF UNDERTAKEN UNTIL THE DIRECTOR OF PUBLIC WORKS OR HIS DESIGNEE IS NOTIFIED OF SUCH INTENT, AND ALL REQUIRED AND PROPERLY EXECUTED BONDS AND CONTRACT AGREEMENTS ARE RECEIVED AND APPROVED BY MODOT. THE CONTRACTOR SHALL NOTIFY THE INSPECTOR OF THE EXACT CONSTRUCTION SCHEDULE SO THAT THE INSPECTIONS OF THE STREET LIGHT INSTALLATION CAN BE MADE.
3. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE MISSOURI DEPARTMENT OF TRANSPORTATION STREET LIGHTING STANDARD DRAWINGS: SL-1 THROUGH SL-5.
4. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE MISSOURI DEPARTMENT OF TRANSPORTATION.
5. ALL TRAFFIC CONTROL IN CONJUNCTION WITH THE STREET LIGHTING CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE MODOT'S STANDARD DRAWINGS SHEET "TYPICAL TRAFFIC CONTROL FOR STREET LIGHTING CONSTRUCTION".
6. THE CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO THE SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED. NO ADDITIONAL PAYMENTS WILL BE MADE FOR EXCAVATION OF ROCK AND BACKFILL MATERIALS
7. EXISTING UNDERGROUND (U/G), OVERHEAD (O.H.) UTILITIES, AND DRAINAGE STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL CONTRACTOR TO EXACTLY LOCATE EACH UTILITY BEFORE ACTUAL CONSTRUCTION, AND BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. IN ADDITION, THE CONTRACTOR SHALL AVOID DISRUPTION OF SERVICES PROVIDED BY THE UTILITIES AND SHALL INSURE THAT PROPER CLEARANCES (OVERHEAD AND UNDERGROUND) ARE MAINTAINED FOR THE DURATION OF CONSTRUCTION. SEE COVER SHEET FOR UTILITY COMPANY CONTACT INFORMATION.
8. THE CONTRACTOR SHALL STAKE THE LOCATION OF ALL STREET LIGHTING POLES, CONTROL STATIONS, AND JUNCTION OR PULL BOXES TO BE INSTALLED. THE ENGINEER OR HIS DESIGNEE SHALL INSPECT THE STAKING PRIOR TO ANY EXCAVATION AND/OR CONSTRUCTION. MINOR RELOCATION OF EQUIPMENT TO AVOID CONFLICTS MAYBE ALLOWED WITH THE APPROVAL OF THE ENGINEER OR HIS DESIGNEE.
9. ALL STREET LIGHT POLES, CONDUIT, JUNCTION OR PULL BOXES, AND CONTROL STATIONS SHALL BE LOCATED WITHIN THE STATE'S RIGHT-OF-WAY OR GENERAL UTILITY EASEMENTS.
10. SCREW-IN ANCHOR FOUNDATIONS HAVE BEEN ASSUMED FOR ALL AREAS. IN THE EVENT A SCREW-IN ANCHOR MAY NOT BE INSTALLED, THEN THE CONTRACTOR MAY AT HIS OWN OPTION, INSTALL THE SCREW-IN ANCHOR WITHIN A PRE-DRILLED HOLE, OR POUR A CONCRETE FOUNDATION. NO CHANGE IN PAYMENT SHALL BE MADE FOR FOUNDATION SUBSTITUTIONS. ALL PRE-DRILLED HOLES SHALL BE BACKFILLED WITH FLOWABLE BACKFILL. ALL CONDUIT TRENCHES SHALL BE BACKFILLED WITH EARTH OR AB-3 AND PROPERLY COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS. THE TOP 4" TO 6" OF BACKFILL SHALL BE TOPSOIL.
11. FACTORY CONDUIT BENDS (PVC 90-DEGREE ELBOWS) SHALL BE INSTALLED INTO ALL POLE BASES, JUNCTION BOXES, PULL BOXES, AND CONTROL STATIONS. COUPLINGS SHALL BE USED TO TRANSITION BETWEEN HDPE AND PVC CONDUITS.
12. GALVANIZED RIGID STEEL (RGS) CONDUIT IS TO BE USED IF CONDUIT IS TO BE INSTALLED ON A STRUCTURE. ALL GRS CONDUITS THAT ARE TO BE USED SHALL BE CLEANED BY THE CONTRACTOR WITH A MANDREL PRIOR TO INSTALLATION OF CABLE.
13. CONTRACTOR SHALL INSTALL A 2-1/2" PVC (SCHEDULE 40) CONDUIT WITH PULL STRING TO THE BASE OF THE SECONDARY SERVICE. CONTRACTOR SHALL COORDINATE SECONDARY SERVICE HOOK-UP WITH THE ELECTRICAL UTILITY COMPANY.
14. BRACKET ARMS SHALL BE ORIENTED PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED ON THE PLANS.
15. ALL SPLICES TO THE DISTRIBUTION CABLE SHALL BE MADE WITHIN JUNCTION BOXES, PULL BOXES, OR POLE BASES USING REQUIRED CONNECTORS. SPLICES WILL ONLY BE ALLOWED IN JUNCTION OR PULL BOXES WHERE A CIRCUIT BRANCHES. ALL SPLICES IN BOXES SHALL BE PROTECTED WITH A WATERPROOF RESIN SPLICE KIT.
16. ALL DISTRIBUTION CABLES IN JUNCTION BOXES, PULL BOXES, AND CONTROL STATIONS SHALL BE LABELED WITH ROUND ALUMINUM IDENTIFICATION TAGS ATTACHED TO THE CABLES WITH COPPER WIRE. THE CONTROL STATION AND CIRCUIT NUMBER SHALL BE STAMPED OR ENGRAVED ON EACH TAG.
17. ALL GROUNDING REQUIREMENTS AND NATIONAL ELECTRIC CODE REQUIREMENTS SHALL BE MET FOR THE STREET LIGHTING INSTALLATION TO PREVENT ANY HAZARDS TO THE PUBLIC.
18. ALL EXISTING STREET LIGHTING EQUIPMENT TO BE USED IN PLACE (U.I.P.) UNLESS OTHERWISE NOTED. DAMAGE TO ANY EXISTING STREET LIGHTING EQUIPMENT DUE TO THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE EQUIPMENT SHALL BE REPLACED OR REPAIRED (AS DIRECTED BY MODOT) WITH MATERIALS EQUAL OR BETTER THAN THE EXISTING MATERIAL.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE REMOVAL OF EXISTING EQUIPMENT WITH THE RESPECTIVE OWNER(S). THE CONTRACTOR SHALL REMOVE, DISASSEMBLE, AND DELIVER SALVAGEABLE EQUIPMENT PER THE INSTRUCTIONS IN THE SPECIAL PROVISIONS OR AS DISCUSSED AT THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR LOSS OF SALVAGEABLE EQUIPMENT.
20. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO MINIMIZE THE DOWNTIME OF THE EXISTING STREET LIGHTING SYSTEMS TO BE MODIFIED.
21. ALL EXISTING CURB AND GUTTER, SIDEWALK, PAVEMENT, DRAINAGE STRUCTURES, AND IRRIGATION SYSTEMS DAMAGED DURING THE STREET LIGHTING CONSTRUCTION SHALL BE REPLACED TO MEET OR EXCEED THE ORIGINAL CONDITION. UNLESS OTHERWISE DIRECTED, GRASSY AREAS WHICH WERE ORIGINALLY SODDED SHALL BE RE-SODDED. ALL RESTORATION WORK WILL BE AT THE CONTRACTOR'S EXPENSE, AND SHALL BE ACCEPTABLE TO THE ENGINEER OR THEIR DESIGNEE.
22. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
23. THE CONTRACTOR SHALL BE REQUIRED TO ATTACH STREET ADDRESSES AND IDENTIFICATION NUMBERS ON THE CONTROL STATION STATION CABINETS, AND ATTACH THE IDENTIFICATION AND POLE NUMBERS ON EACH STREET LIGHT POLE AS INDICATED IN THE MODOT'S STANDARD DRAWINGS. THE LETTERS AND NUMERALS WILL BE PROVIDED BY MODOT.
24. SUBSTANTIAL COMPLETION OF THE STREET LIGHT SYSTEM SHALL BE DEFINED AS ALL COMPONENTS OF THE SYSTEM FULL OPERATIONAL. SUBSTANTIAL COMPLETION SHALL ALLOW FOR TESTING OF THE SYSTEM.
25. FINAL ACCEPTANCE OF THE STREET LIGHT SYSTEM SHALL BE DEFINED AS FINAL WRITTEN APPROVAL AND STREET LIGHT SYSTEM FULLY OPERATIONAL FOR A TIME PERIOD OF FIFTEEN (15) DAYS, WITHOUT ANY PROBLEM, AS NOTED IN THE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE MARKED UP AS-BUILT PLANS PRIOR TO FINAL ACCEPTANCE BY MODOT.

BOX NUMBER	ALIGNMENT	STATION	OFFSET	PULL BOX DESCRIPTION
CS1	BLUE PARKWAY	10+16.74	32.50	CONTROL STATION
JB1	BLUE PARKWAY	12+67.31	24.00	TYPE 1 JUNCTION BOX
JB2	BLUE PARKWAY	12+67.31	24.00	TYPE 1 JUNCTION BOX
JB3	NE CONNECTION	0+73.60	22.14	TYPE 1 JUNCTION BOX
JB4	NE CONNECTION	0+73.77	24.22	TYPE 1 JUNCTION BOX
JB5	SW CONNECTION	0+62.45	24.66	TYPE 1 JUNCTION BOX
JB6	SW CONNECTION	0+62.45	20.52	TYPE 1 JUNCTION BOX
JB7	BLUE PARKWAY	20+44.47	24.00	TYPE 1 JUNCTION BOX
JB8	BLUE PARKWAY	20+44.53	23.99	TYPE 1 JUNCTION BOX

POLE NUMBER	ALIGNMENT	STATION	OFFSET	LUM.	POLE HT. (FT.)	BRACKET ARM LEN. (FT.)
1	BLUE PARKWAY	11+91.96	23.80	LED A	30	10
2	BLUE PARKWAY	12+73.55	23.80	LED A	30	10
3	BLUE PARKWAY	14+21.47	23.80	LED A	30	10
4	BLUE PARKWAY	14+84.49	71.14	LED A	30	6
5	BLUE PARKWAY	14+96.56	49.05	LED A	30	6
6	NE CONNECTION	0+71.57	21.93	LED A	30	10
7	SW CONNECTION	0+61.07	20.50	LED A	30	10
8	BLUE PARKWAY	16+16.14	59.84	LED A	30	6
9	BLUE PARKWAY	16+18.92	93.05	LED A	30	6
10	BLUE PARKWAY	17+44.35	23.80	LED A	30	10
11	BLUE PARKWAY	19+36.26	23.80	LED A	30	10
12	BLUE PARKWAY	20+47.12	23.80	LED A	30	10

NORTH

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SCALE IN FEET

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PUBLIC IMPROVEMENT PLANS
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PROJECT #: 22-2087
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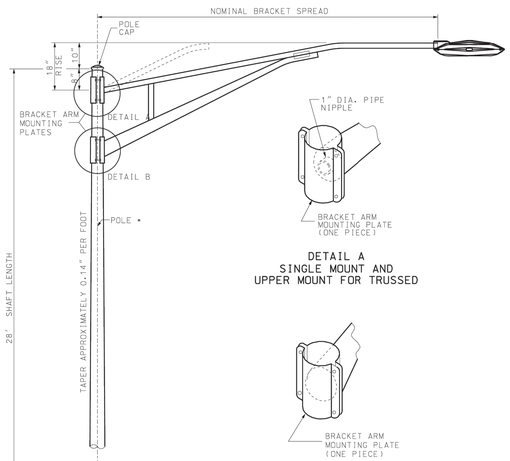
PERMIT

STREET LIGHTING PLANS

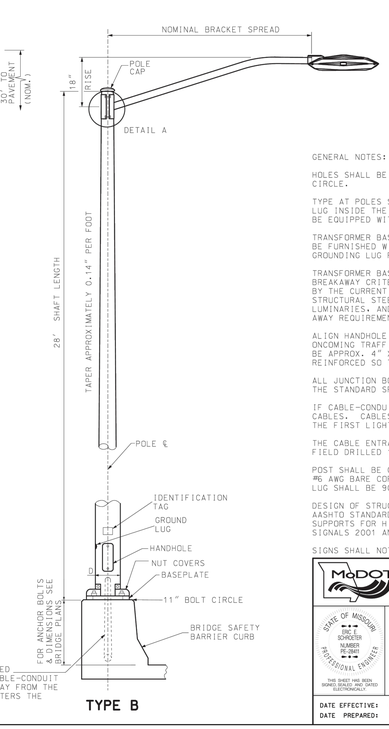


DETAIL A
SINGLE MOUNT AND UPPER MOUNT FOR TRUSSED

DETAIL B
LOWER MOUNT FOR TRUSSED

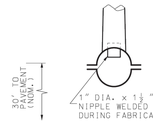
TYPICAL BRACKET ARM MOUNTING

TYPE AT



WIRES SHALL BE SPLICED AT FUSED CONNECTOR IN POLE BASE. IF CABLE-CONDUIT IS SPECIFIED. CUT CONDUIT AWAY FROM THE CABLES WHERE CABLE-CONDUIT ENTERS THE RIGID CONDUIT SYSTEM. (SEE DRAWING 901.02)

TYPE B



PLAN VIEW OF DETAIL A

GENERAL NOTES:

HOLES SHALL BE PUNCHED ONLY FOR SPECIFIED BOLT CIRCLE.

TYPE AT POLES SHALL BE EQUIPPED WITH THE GROUNDING LUG INSIDE THE TRANSFORMER BASE. TYPE B POLES SHALL BE EQUIPPED WITH A GROUNDING LUG INSIDE THE POLE.

TRANSFORMER BASES FOR 30 FOOT MOUNTING HEIGHT SHALL BE FURNISHED WITH ONE (1) DRILLED AND TAPPED HOLE AND GROUNDING LUG FOR GROUNDING EQUIPMENT.

TRANSFORMER BASE SHALL BE CERTIFIED AS MEETING THE BREAKAWAY CRITERIA AND STRUCTURAL REQUIREMENTS AS SET BY THE CURRENT AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS" AND MEET THE BREAK-AWAY REQUIREMENTS OF NCHRP 350.

ALIGN HANDHOLE SO THAT THE POLE IS BETWEEN THE ONCOMING TRAFFIC AND THE HANDHOLE. HANDHOLE SHALL BE APPROX. 4" X 6-1/2". HANDHOLE FRAME SHALL BE REINFORCED SO THAT THE POLE STRENGTH IS NOT REDUCED.

ALL JUNCTION BOXES SHALL CONFORM TO SECTION 1062 OF THE STANDARD SPECIFICATIONS.

IF CABLE-CONDUIT IS SPECIFIED, CUT CONDUIT AWAY FROM CABLES. CABLES SHALL BE CONTINUOUS AND UNSPLICED TO THE FIRST LIGHT POLE.

THE CABLE ENTRANCE AT THE BRACKET ARM SHALL BE A FIELD DRILLED 1-1/4" DIAMETER HOLE.

POST SHALL BE GROUNDED FROM GROUND LUG IN POST WITH #6 AWG BARE COPPER WIRE TO CONDUIT SYSTEM. GROUND LUG SHALL BE 90° OR 180° FROM THE HANDHOLE.

DESIGN OF STRUCTURAL SUPPORTS SHALL COMPLY WITH AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS 2001 AND INTERIMS THROUGH 2003.

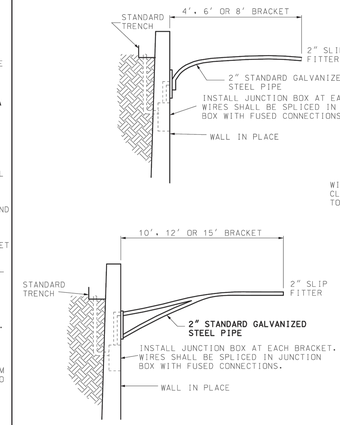
SIGNS SHALL NOT BE MOUNTED ON LIGHTING POLES.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

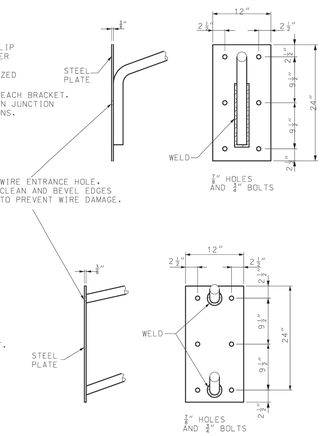
STATE OF MISSOURI — ERIC D. SCHROETER — NUMBER PE-2001027154 — PROFESSIONAL ENGINEER — THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

HIGHWAY LIGHTING
POLES, FOUNDATIONS AND APPURTENANCES FOR 30' MOUNTING HEIGHT

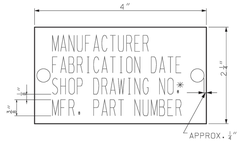
DATE EFFECTIVE: 04/01/2018
DATE PREPARED: 2/9/2018
901.00AB
SHEET NO. 1 OF 4



WALL BRACKETS



FACE PLATE DETAILS



ID TAG NOTE:
TAG SHALL BE ALUMINUM OR STAINLESS STEEL AND ATTACHED TO POLE USING TWO RIVETS OR STAINLESS STEEL DRIVE SCREWS.

* INCLUDING REVISION

IDENTIFICATION TAG

GENERAL NOTES:

HOLES SHALL BE PUNCHED ONLY FOR SPECIFIED BOLT CIRCLE.

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TRANSFORMER BASES FOR 30 FOOT MOUNTING HEIGHT SHALL BE FURNISHED WITH ONE (1) DRILLED AND TAPPED HOLE AND GROUNDING LUG FOR GROUNDING EQUIPMENT.

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POST SHALL BE GROUNDED FROM GROUND LUG IN POST WITH #6 AWG BARE COPPER WIRE TO CONDUIT SYSTEM. GROUND LUG SHALL BE 90° OR 180° FROM THE HANDHOLE.

ID TAG HOLES SHALL BE DRILLED INTO POLE PRIOR TO GALVANIZING.

LED LUMINAIRES				
FUSE RATING	DESIGNATION	MAX. WATT	DISTRIBUTION TYPE	BACKLIGHT-UPLIGHT-GLARE (BUG) RATING
3 A	LED-A	103	III	B2-U0-G2
LUMINAIRE PER CHART UNLESS OTHERWISE SPECIFIED ON PLANS.				

TYPE AT POLE			
BRACKET SPREAD	4'-10"	12'	15'
MAX. LUMINAIRE WEIGHT	75 LB	71 LB	66 LB
MAX. PROJECTED AREA	3.3 SQ. FT.		
SINGLE AND TRUSSED BRACKET ARMS			
LOCATION	LENGTH POLE	BRACKET SPREAD	TRANS. BASE BOLT CIRC.	D
SHOULDER	28'	4',6',8' 10',12',15'	15"	8"

TYPE B POLE			
BRACKET SPREAD	4'	6'	8'
MAX. LUMINAIRE WEIGHT	75 LB	75 LB	54 LB
MAX. PROJECTED AREA	3.3 SQ. FT.		
SINGLE BRACKET ARM			
LOCATION	LENGTH POLE	BRACKET SPREAD	D	ANCHOR BOLT DIA.
BRIDGE SAFETY BARRIER CURB	28'	4',6' 8'	8"	1"

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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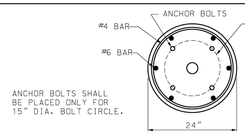
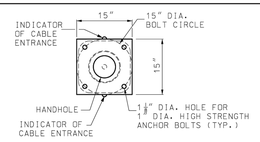
HIGHWAY LIGHTING
POLES, FOUNDATIONS AND APPURTENANCES FOR 30' MOUNTING HEIGHT

DATE EFFECTIVE: 04/01/2018
DATE PREPARED: 2/9/2018
901.00AB
SHEET NO. 2 OF 4



ANCHOR BOLTS SHALL BE PLACED ONLY FOR 15" DIA. BOLT CIRCLE.

PLAN

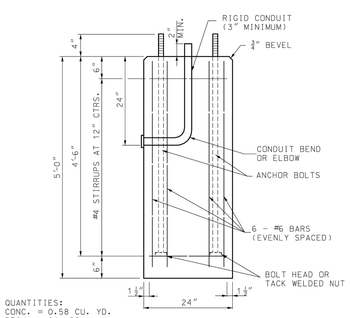


PLAN

DRIVE HOLES WILL BE PERMITTED PROVIDED THAT THEY DO NOT CONFLICT WITH OR COMPROMISE THE STRUCTURAL INTEGRITY OF THE PLATE, THE WELD BETWEEN THE PLATE AND SHAFT, OR THE BOLT HOLES.

NOTES:

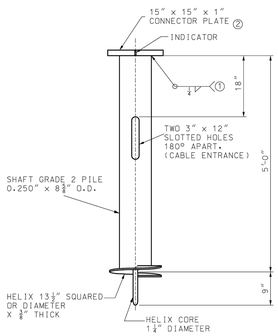
1. GRIND WELD AS NECESSARY TO CLEAR BOLT HEAD.
2. FOUNDATIONS SHALL BE INSTALLED SO THAT CONNECTOR PLATES ARE LEVEL PERPENDICULAR TO THE BRACKET ARM AND SLOPED FOR POLE RAKING PARALLEL TO THE BRACKET ARM.
3. AT THE OPTION OF THE CONTRACTOR THE CONCRETE FOUNDATION MAY BE PRECAST. IF PRECAST, THEY SHALL BE SET IN DRILLED HOLES 3 FEET IN DIAMETER AND 6 INCHES DEEPER THAN THE BOTTOM OF THE CONCRETE FOUNDATION. THE BOTTOM 6 INCHES OF THE HOLE AND THE REMAINING SPACE AROUND THE FOUNDATION SHALL BE BACKFILLED WITH WET TAMPED LIMESTONE SCREENINGS IN LAYERS NOT EXCEEDING 12 INCHES.



QUANTITIES:
CONC. = 0.58 CU. YD.
REIN. = 64 LBS.

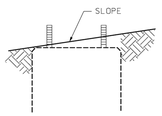
ELEVATION

DETAILS OF CONCRETE FOUNDATION 3

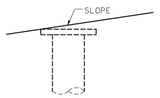


ELEVATION

DETAILS OF SCREW ANCHOR FOUNDATION



CONCRETE FOUNDATION EMBEDMENT



SCREW ANCHOR EMBEDMENT

GENERAL NOTES:

ALL CLASSIFICATIONS ARE ASTM UNLESS OTHERWISE NOTED. SEE STANDARD SPECIFICATIONS FOR CLASSIFICATIONS NOT SHOWN.

ALL CONNECTOR PLATE AND CLOSURE PLATE THICKNESSES SHOWN ARE MINIMUM DIMENSIONS.

ALL ANCHOR BOLTS SHALL BE FULLY GALVANIZED 1" DIA. HIGH STRENGTH ANCHOR BOLTS.

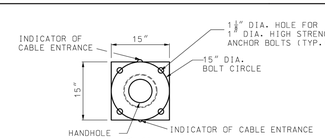
ALL STEEL COMPONENTS SHALL BE HOT DIP GALVANIZED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

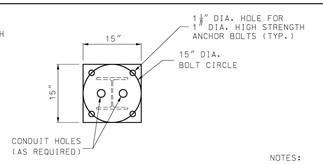
STATE OF MISSOURI — NICOLE A. HOLD HOOD — NUMBER PE-2001027154 — PROFESSIONAL ENGINEER — THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

HIGHWAY LIGHTING
POLES, FOUNDATIONS AND APPURTENANCES FOR 30' MOUNTING HEIGHT

DATE EFFECTIVE: 01/01/2021
DATE PREPARED: 10/14/2020
901.00AB
SHEET NO. 4 OF 4



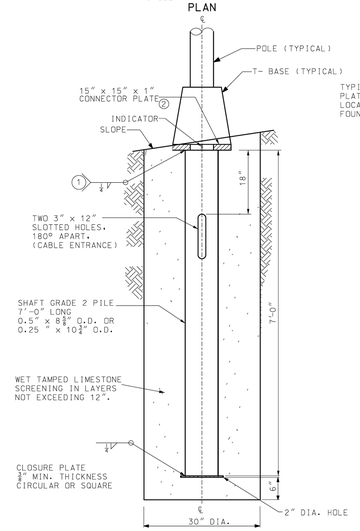
PLAN



PLAN

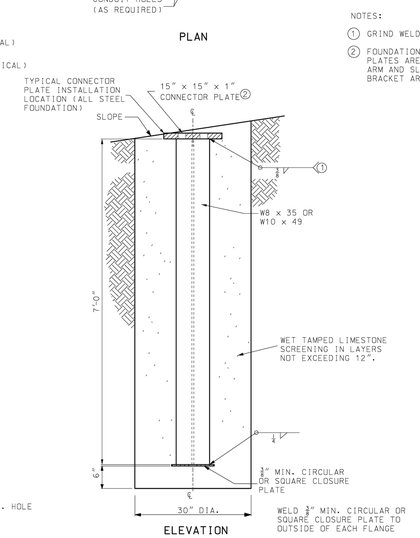
NOTES:

1. GRIND WELD AS NECESSARY TO CLEAR BOLT HEAD.
2. FOUNDATIONS SHALL BE INSTALLED SO THAT CONNECTOR PLATES ARE LEVEL PERPENDICULAR TO THE BRACKET ARM AND SLOPED FOR POLE RAKING PARALLEL TO THE BRACKET ARM.



ELEVATION

DETAILS OF CIRCULAR STEEL PILE FOUNDATION



ELEVATION

DETAILS OF STEEL "H" PILE FOUNDATION

GENERAL NOTES:

ALL CLASSIFICATIONS ARE ASTM UNLESS OTHERWISE NOTED. SEE STANDARD SPECIFICATIONS FOR CLASSIFICATIONS NOT SHOWN.

ALL CONNECTOR PLATE AND CLOSURE PLATE THICKNESSES SHOWN ARE MINIMUM DIMENSIONS.

ALL ANCHOR BOLTS SHALL BE FULLY GALVANIZED 1" DIA. HIGH STRENGTH ANCHOR BOLTS.

ALL STEEL COMPONENTS SHALL BE HOT DIP GALVANIZED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI — NICOLE A. HOLD HOOD — NUMBER PE-2001027154 — PROFESSIONAL ENGINEER — THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

HIGHWAY LIGHTING
POLES, FOUNDATIONS AND APPURTENANCES FOR 30' MOUNTING HEIGHT

DATE EFFECTIVE: 01/01/2021
DATE PREPARED: 10/14/2020
901.00AB
SHEET NO. 3 OF 4

POWELL CWM
ARCHITECTURE/ENGINEERING/SURVEYING
3200 S. State Route 291, Bldg. I, Independence, MO 64057
816.373.4800 | powellcwm.com

Certificates of Authority
Architecture: MO 310 / KS 73
Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

STATE OF MISSOURI — JADRIENNE S. RODELL-TIPTON — NUMBER PE-2021032725 — PROFESSIONAL ENGINEER — 10/17/23

Jadrienne S. Rodell-Tipton, PE
PE-2021032725 (MISSOURI #)

PREPARED FOR:
GRIFFIN RILEY
PROPERTY GROUP, LLC
21 SE 29th TERRACE,
LEE'S SUMMIT, MO 64082

PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

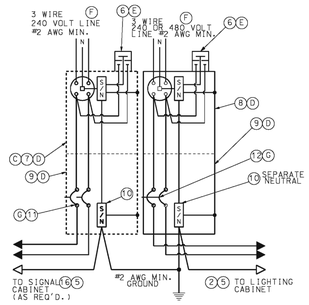
REVISIONS
NO. DATE / DESCRIPTION
1
2
3
4
5
5
6

PROJECT #: 22-2087
ISSUE DATE: 03-28-2023

PERMIT

STREET LIGHTING DETAILS

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	SERVICE POLE 30' MIN..CLASS 4 WOOD. CONTRACTOR PROVIDED. MoDOT OWNED✱
2	#2 AWG MIN. CABLE. 600 VOLT ✱
3	SERVICE ENTRANCE HEAD
4	GUY CABLE. AS REQUIRED
5	RIGID CONDUIT. 2" MIN.. WITH PREFORMED ELBOWS
6	LIGHTNING ARRESTER. VALVE TYPE. 2 POLE. 650 VOLT
7	METER SOCKET. 200 AMP. FOR SIGNALS
8	METER SOCKET. 200 AMP. FOR LIGHTING
9	LOCKING. RAINTIGHT. NEMA 4 SERVICE DISCONNECT BOX
10	INSULATED. GROUNDABLE NEUTRAL WIRE. 200 AMP MINIMUM
11	SIGNAL BREAKERS. SINGLE POLE. 40A MIN. TYPE A OR B ✱
12	LIGHTING BREAKER. 2 POLE. 240 VOLT. 100A. TYPE A OR B
13	1/2" METAL CONDUIT
14	#2 AWG MIN. GROUND WIRE
15	GROUND ROD. 3/4" x 8' MIN.
16	#8 AWG MIN. CABLE. 600 VOLT ✱
17	CLASS B CONCRETE. 0.92 C.Y.±
18	THREADED CONDUIT HUB WITH SEALING WASHERS
19	WEATHERPROOF ADHESIVE LABEL (LIGHTING). VINYL RAISED LETTERING (OR EQUIVALENT. SEE DETAIL)
20	WEATHERPROOF ADHESIVE LABEL (SIGNALS). VINYL RAISED LETTERING (OR EQUIVALENT. SEE DETAIL)
21	W6 x 9 OR W6 x 15 GALVANIZED POST
22	#2 AWG MIN. CABLE. 600 VOLT
23	RIGID CONDUIT. 2" MINIMUM
✱	SEE PLANS



WIRING DIAGRAM
LIGHTING AND/OR SIGNALS

NOTES:

(A) SERVICE POLE SHALL BE GUYED WHEN SPAN OF OVERHEAD SERVICE WIRE EXCEEDS 50 FEET.

(B) INCREASE 1 FOOT FOR EACH 5 FEET ABOVE 30 FEET.

(C) SERVICE DISCONNECT BOXES AND METER BOXES SHALL BE ALUMINUM OR STAINLESS STEEL. ALL HARDWARE, HINGES, CATCHES, ETC. SHALL BE STAINLESS STEEL.METER SOCKET FOR SIGNALS OR LIGHTING AND OTHER EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED, AND CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY OR MUNICIPALITY PROVIDING POWER.

(D) SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR.

(E) UTILITY COMPANY SHALL DECIDE IF LIGHTNING ARRESTERS ARE TO BE CONNECTED ON THE LOAD OR LINE SIDE OF THE METER. THE UTILITY COMPANY SHALL ALSO DECIDE IF THE LIGHTNING ARRESTER IS TERMINATED IN THE METER OR DISCONNECT CABINET. IF TERMINATED IN THE DISCONNECT CABINET, IT SHALL BE INSTALLED ON THE DISCONNECT CABINET.

(F) LIGHTING SYSTEM VOLTAGE OF 240 VOLTS OR 480 VOLTS AS SHOWN ON THE PLANS.

(G) BREAKERS SHALL CONFORM TO SEC. 901.4 OF THE STANDARD SPECIFICATIONS.

(H) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 IN. DEEP. CONNECTION TO GROUND ROD SHALL BE CADWELDED.

GENERAL NOTES:

FOR CABLE TYPES AND INSTALLATION, SEE STANDARD SPECIFICATIONS.

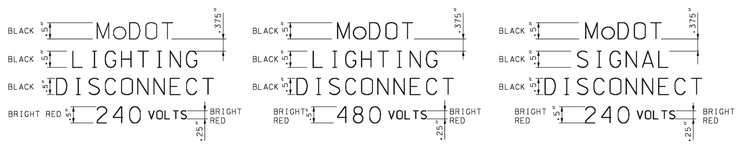
THE POWER SUPPLY ASSEMBLY TYPE IS SHOWN ON THE PLANS OR IS DESIGNATED IN THE CONTRACT.

THE UTILITY COMPANY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.

WHERE SIGNAL OR LIGHTING POWER ONLY IS DESIGNATED, OMIT ITEMS NOT REQUIRED.

ALL OPENINGS IN ANY SERVICE BOX OR METER BOX SHALL BE COVERED AND SEALED WITH LIFETIME SILICONE CAULK.

ALL MATERIALS REQUIRED AS SHOWN ON DRAWING, INCLUDING CABLE AND CONDUIT FROM POWER SUPPLY ASSEMBLY TO UTILITY COMPANY FACILITIES, SHALL BE INCLUDED IN UNIT BID PRICE FOR POWER SUPPLY ASSEMBLY.



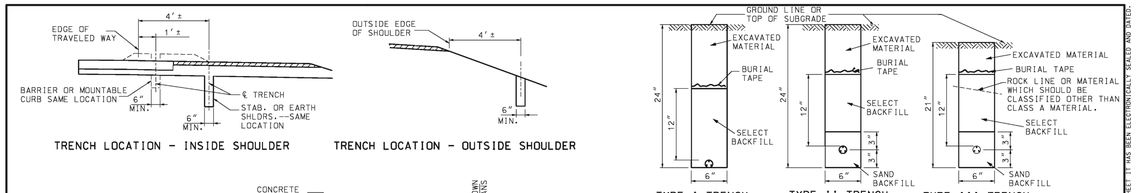
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

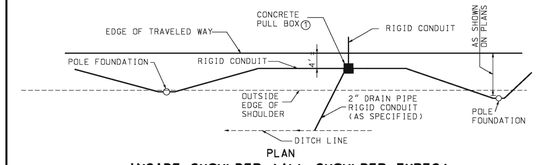
STATE OF MISSOURI ELDEN D. INGRUM NUMBER PE-2004000187 PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

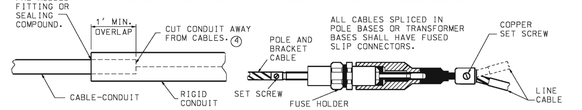
HIGHWAY LIGHTING
POWER SUPPLY ASSEMBLY
SECONDARY SERVICE

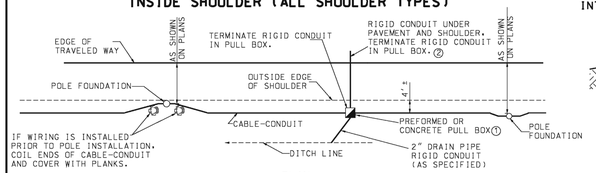
DATE EFFECTIVE: 04/01/2002	901.80D	SHEET NO.
DATE PREPARED: 4/1/2010		1 OF 2

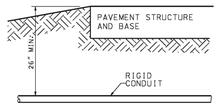
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

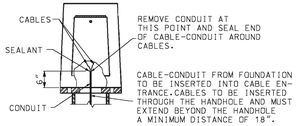






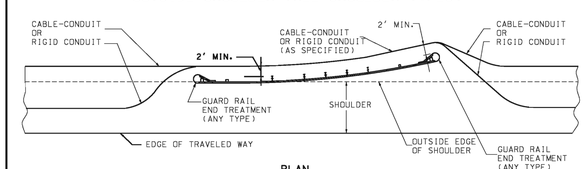






GENERAL NOTES:

THE CONDUIT OF THE CABLE-CONDUIT SHALL BE CUT AWAY FROM THE CABLES WHERE THEY ENTER THE RIGID CONDUIT INSIDE A CONCRETE BARRIER OR STRUCTURE.



NOTES:

(1) SEE DRAWING 902.20 FOR PULL BOXES.

(2) CONDUIT MAY BE REMOVED FROM CABLES IN RIGID CONDUIT. SPLICES SHALL NOT BE MADE UNLESS SHOWN ON PLANS.

(3) BRAND AND MODEL OF FUSE HOLDER SHALL BE APPROVED BY THE ENGINEER.

(4) CABLES SHALL BE CONTINUOUS TO THE FIRST LIGHT POLE. SPLICES SHALL NOT BEMADE FOR THE PURPOSE OF TERMINATING CABLE-CONDUIT.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI ELDEN D. INGRUM NUMBER PE-2004000187 PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

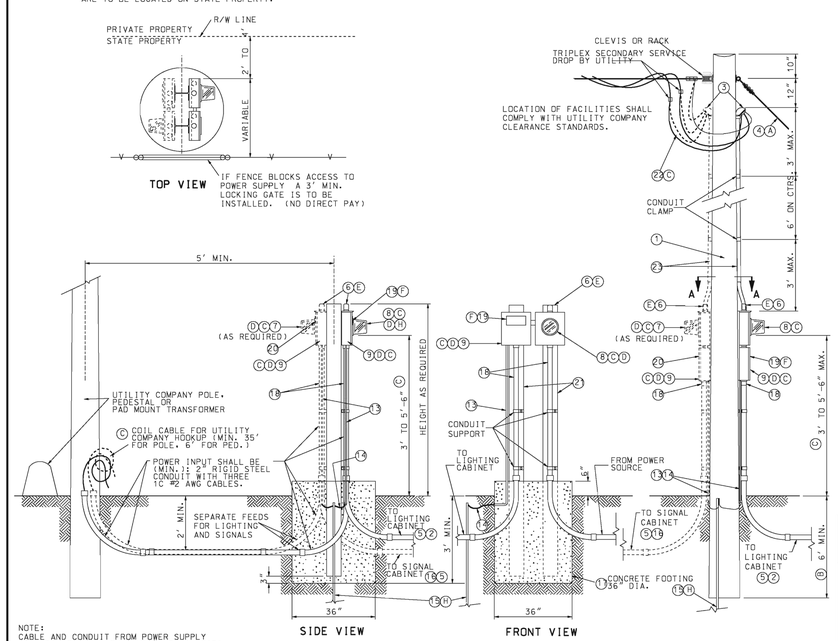
HIGHWAY LIGHTING
CABLE, CONDUIT AND TRENCHING

DATE EFFECTIVE: 04/01/2002	901.02B	SHEET NO.
DATE PREPARED: 3/10/2011		1 OF 1

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

PEDESTAL OR NEW STATE-OWNED POLE TO BE SET WITHIN 2' TO 4' OF RIGHT-OF-WAY LINE.

ALL SERVICE POWER SUPPLY ASSEMBLIES ARE TO BE LOCATED ON STATE PROPERTY.



NOTE:
CABLE AND CONDUIT FROM POWER SUPPLY ASSEMBLY TO UTILITY COMPANY FACILITIES SHALL BE INCLUDED IN PRICE BID FOR POWER SUPPLY ASSEMBLY.

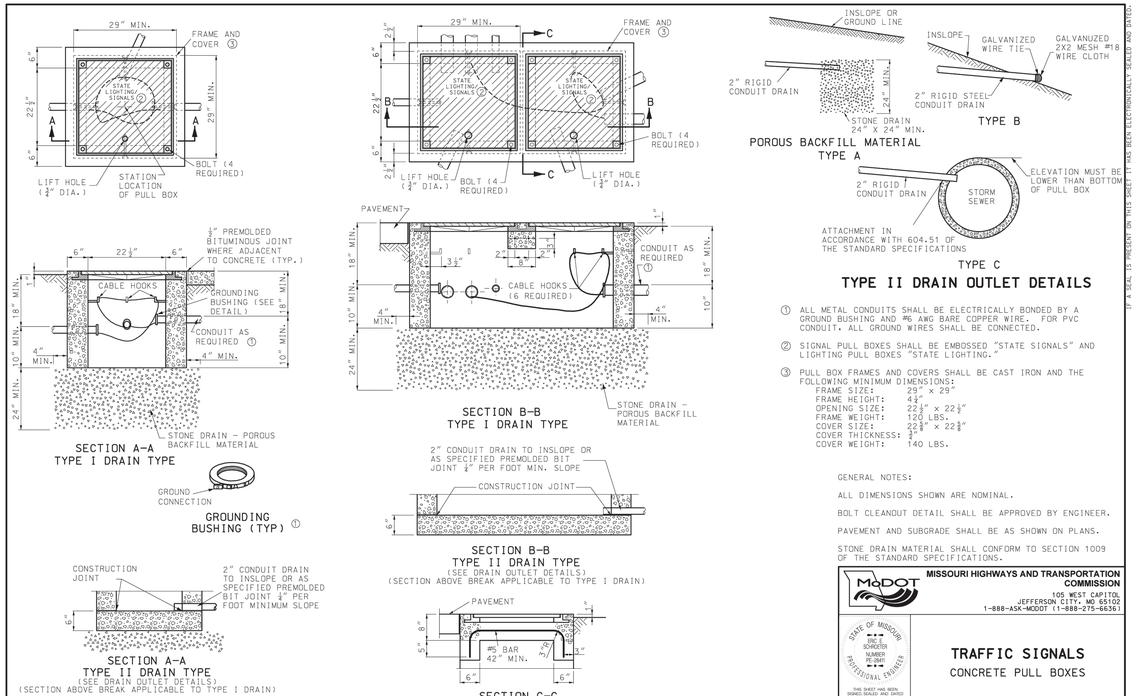
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI ELDEN D. INGRUM NUMBER PE-2004000187 PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

HIGHWAY LIGHTING
POWER SUPPLY ASSEMBLY
SECONDARY SERVICE

DATE EFFECTIVE: 04/01/2002	901.80D	SHEET NO.
DATE PREPARED: 5/19/2010		2 OF 2

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



(1) ALL METAL CONDUITS SHALL BE ELECTRICALLY BONDED BY A GROUND BUSHING AND #6 AWG BARE COPPER WIRE. FOR PVC CONDUIT, ALL GROUND WIRES SHALL BE CONNECTED.

(2) SIGNAL PULL BOXES SHALL BE EMBOSSED "STATE SIGNALS" AND LIGHTING PULL BOXES "STATE LIGHTING."

(3) PULL BOX FRAMES AND COVERS SHALL BE CAST IRON AND THE FOLLOWING MINIMUM DIMENSIONS:

FRAME SIZE:	29" x 29"
FRAME HEIGHT:	4 1/2"
OPENING SIZE:	22 1/2" x 22 1/2"
FRAME WEIGHT:	120 LBS.
COVER SIZE:	22 3/8" x 22 3/8"
COVER THICKNESS:	3/4"
COVER WEIGHT:	140 LBS.

GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE NOMINAL.

BOLT CLEANOUT DETAIL SHALL BE APPROVED BY ENGINEER.

PAVEMENT AND SUBGRADE SHALL BE AS SHOWN ON PLANS.

STONE DRAIN MATERIAL SHALL CONFORM TO SECTION 1009 OF THE STANDARD SPECIFICATIONS.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI ERIC D. SCHOEFER NUMBER PE-2001037000 PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

TRAFFIC SIGNALS
CONCRETE PULL BOXES

DATE EFFECTIVE: 04/01/2019	902.20G	SHEET NO.
DATE PREPARED: 1/16/2019		1 OF 3

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

POWELL CWM
ARCHITECTURE/ENGINEERING/SURVEYING
3200 S. State Route 291, Bldg. I, Independence, MO 64057
816.373.4800 | powellcwm.com

Certificates of Authority
Architecture: MO 310 / KS 73
Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

STATE OF MISSOURI JADRIENNE S. RODELL-TIPTON NUMBER PE-2021032725 PROFESSIONAL ENGINEER
10/17/23

Jadrienne S. Rodell-Tipton, PE
PE-2021032725 (MISSOURI #)

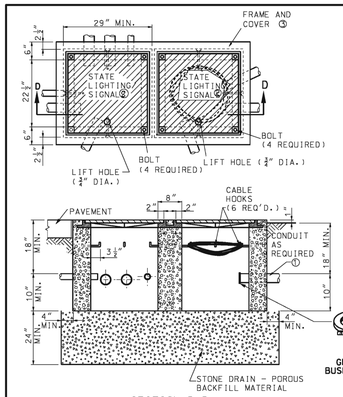
PREPARED FOR:
GRIFFIN RILEY
PROPERTY GROUP, LLC
21 SE 29th TERRACE,
LEE'S SUMMIT, MO 64082

PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

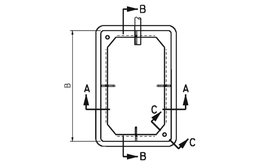
REVISIONS NO.	DATE / DESCRIPTION
1	
2	
3	
4	
5	
5	
6	

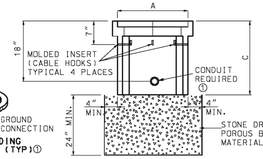
PROJECT #: 22-2087
ISSUE DATE: 03-28-2023
PERMIT

STREET LIGHTING DETAILS

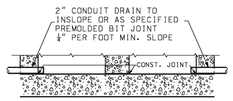


SECTION D-D
TYPE I DRAIN TYPE

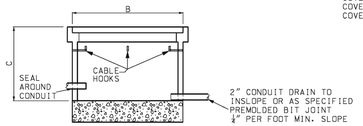




SECTION A-A
TYPE I DRAIN TYPE



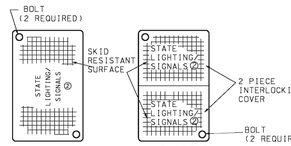
TYPE II DRAIN TYPE
(SEE DRAIN OUTLET DETAILS)
(SECTION ABOVE BREAK APPLICABLE TO TYPE I DRAIN.)
DOUBLE CONCRETE PULL BOX, TYPE B



SECTION B-B
TYPE II DRAIN TYPE

PREFORMED PULL BOX

SECTION C-C
TYPICAL BOLT CLEANOUT



PREFORMED PULL BOX COVER

NUMBER OF ENTERING CONDUCTORS	CLASS	PREFORMED PULL BOX MINIMUM DIMENSIONS		
		A	B	C
< 23	1	17"	30"	22"
23 - 68	2	24"	36"	24"
> 68 | 3 | 30" | 48" | 36" |

① ALL METAL CONDUITS SHALL BE ELECTRICALLY BONDED BY A GROUND BUSHING AND #6 AWG BARE COPPER WIRE. FOR PVC CONDUIT, ALL GROUND WIRES SHALL BE CONNECTED.

② SIGNAL PULL BOXES SHALL BE EMBOSSED "STATE SIGNALS" AND LIGHTING PULL BOXES "STATE LIGHTING."

③ PULL BOX FRAMES AND COVERS SHALL BE CAST IRON AND THE FOLLOWING MINIMUM DIMENSIONS:

FRAME SIZE: 29" X 29"
FRAME HEIGHT: 4"
OPENING SIZE: 22 1/2" x 22 1/2"
FRAME WEIGHT: 120 LBS.
COVER SIZE: 22 3/8" x 22 3/8"
COVER THICKNESS: 1"
COVER WEIGHT: 140 LBS.

GENERAL NOTES:

IF AN EXTENSION IS USED WITH A PREFORMED BOX, THE LIP OF THE EXTENSION MAY BE INTERIOR OR EXTERIOR. THE EXTENSION SHALL BE COMPATIBLE AND FROM THE SAME MANUFACTURER.

IF PREFORMED PULL BOXES ARE SPECIFIED, THE CONTRACTOR MAY USE THE STANDARD CONCRETE PULL BOX IN LIEU OF THE CLASS 1 OR 2 PREFORMED PULL BOX OR THE DOUBLE CONCRETE PULL BOX, TYPE A, IN LIEU OF THE CLASS 3 PREFORMED PULL BOXES.

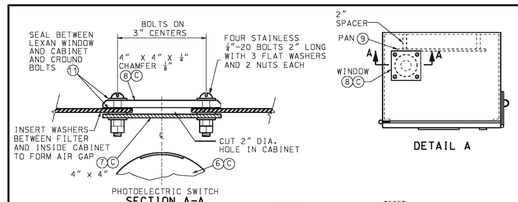
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI KATHYN PHILIPS VARNEY NUMBER PE-2019 PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SEALED AND DATED ELECTRONICALLY

TRAFFIC SIGNALS
CONCRETE AND PREFORMED PULL BOXES

DATE EFFECTIVE: 11/01/2010
DATE PREPARED: 9/3/2010
902.20G
SHEET NO. 2 OF 3

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SECTION A-A
WINDOW DETAIL

DETAIL A

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	#2 CORBIN LOCK
2	RIGID CONDUIT *
3	CLASS B CONCRETE. 0.4 C.Y.±
4	NEMA 4. DUST-TIGHT. WATERTIGHT. CABINET
5	GROUND ROD. 3/4" DIA. X 8' MIN.
6	PHOTOELECTRIC SWITCH AND SOCKET. 105/285 V.. 1000-WATT
7	TRANSLUCENT. PLEXIGLASS FILTER #W2067. 1/8" THICK
8	CLEAR. LEXAN #9034 WINDOW.1/4" THICK MIN.
9	MOUNTING PAN. 31 1/2" x 12" x 1/4" ALUMINUM OR STAINLESS STEEL
10	PLIABLE DUCT SEALANT
11	LIFETIME SILICONE CAULK
12	ANCHOR BOLTS. 5/8-11 x 14" LONG BOLTS. HOT DIP GALVANIZED. 4 REQUIRED.USE BOLT HEAD OR TACK WELDED NUT ON EMBEDDED END
13	WEATHERPROOF ADHESIVE LABEL. VINYL RAISED LETTERING (OR EQUIVALENT. SEE DETAIL)
*	SEE PLANS

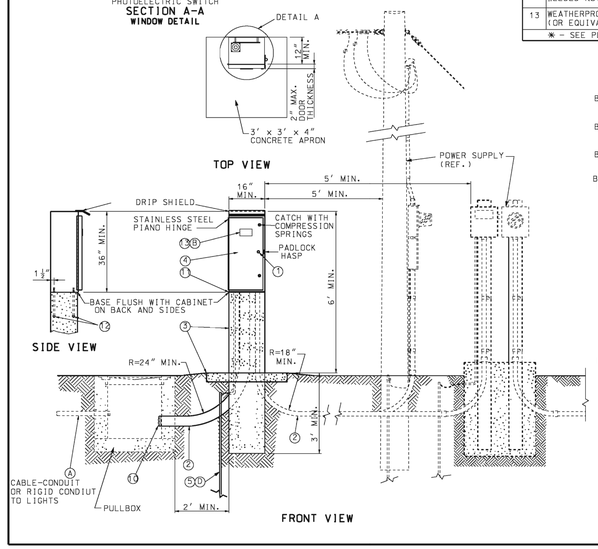
NOTES

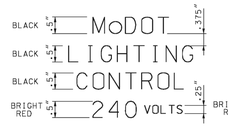
(A) IF CABLE-CONDUIT IS SPECIFIED, THE CONDUIT SHALL BE CUT AWAY FROM CABINET BETWEEN PULL BOX AND CONTROL STATION.

(B) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS.

(C) PHOTOELECTRIC SWITCH BRACKETS MAY VARY. LOCATE CENTER OF WIDOW OVER CENTER OF PHOTOELECTRIC SWITCH.

(D) IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 IN. DEEP. CONNECTION TO GROUND ROD SHALL BE CADWELDED.





LABEL DETAIL
(240 VOLT) (B)

LABEL DETAIL
(480 VOLT) (B)

GENERAL NOTES:

ALTERNATE CABINET DIMENSIONS WILL BE ALLOWED AS APPROVED BY THE ENGINEER. INTERIOR CABINET VOLUME SHALL BE EQUAL TO OR GREATER THAN THAT SHOWN ON PLANS AND PROPER CLEARANCES SHALL BE PROVIDED FOR ALL EQUIPMENT. CONCRETE BASE DIMENSIONS SHALL BE MODIFIED TO FIT THE CABINET SUPPLIER.

PLACEMENT OF ALL ITEMS SHALL BE APPROVED BY THE ENGINEER.

CABINET SHALL BE LOCATED AWAY FROM TRAFFIC. TOP MOUNT PHOTO CONTROL SHALL FACE AN OPEN SKY. SIDE MOUNT PHOTO CONTROL SHALL FACE NORTH.

SEE PLANS FOR CIRCUIT WIRING: MAXIMUM LOADING PER CIRCUIT IS 7,400 WATTS FOR 240 VOLT AND 11,000 WATTS FOR 480 VOLT.

SCHEMATIC DIAGRAM SHALL BE MOUNTED ON INSIDE OF CABINET DOOR.

THE UTILITY SHALL BE NOTIFIED IN WRITING 30 DAYS PRIOR TO DATE SERVICE WILL BE REQUIRED.

ALL OPENINGS IN CABINET SHALL BE COVERED AND SEALED WITH LIFETIME SILICONE CAULK.

ALL MATERIALS REQUIRED EXCLUDING REFERENCE ITEMS AS SHOWN ON DRAWING SHALL BE INCLUDED IN PRICE BID FOR CONTROL STATION.

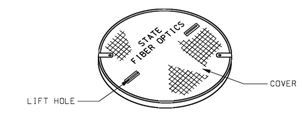
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

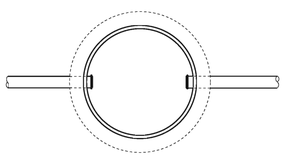
STATE OF MISSOURI ELDEN H. MOGUS NUMBER E-24080 PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SEALED AND DATED ELECTRONICALLY

HIGHWAY LIGHTING
BASE MOUNTED
CONTROL STATION
240 V OR 480 V - 4 CIRCUIT

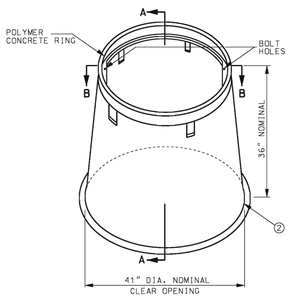
DATE EFFECTIVE: 04/01/2005
DATE PREPARED: 8/26/2009
901.30F
SHEET NO. 1 OF 2

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

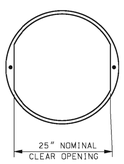




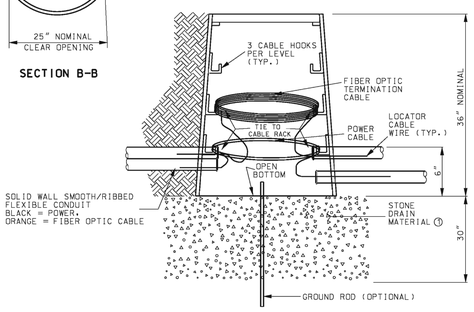
PLAN



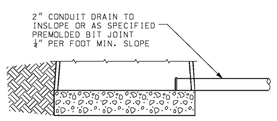
CIRCULAR PULL BOX
CLASS 5



SECTION B-B



SECTION A-A
TYPE I DRAIN TYPE



TYPE II DRAIN TYPE
(SEE DRAIN OUTLET DETAILS)
(SECTION ABOVE BREAK APPLICABLE TO TYPE I DRAIN.)

① AGGREGATE SHALL BE TYPE 1 CONFORMING TO SEC 1007.

② BOX SHALL BE OF A FLARE DESIGN AND HAVE A LIP FOR STABILIZATION.

GENERAL NOTES:

A MINIMUM OF NINE HOOKS, INSTALLED IN THREE LEVELS, SHALL BE INCLUDED WITH EACH PULL BOX.

IF SUBSURFACE CONDITIONS EXIST WHICH PROHIBIT THE PLACEMENT OF THE GROUND ROD IN A VERTICAL POSITION, THE ROD MAY BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM VERTICAL OR BURIED IN A TRENCH AT LEAST 30 IN. DEEP. CONNECTION TO GROUND ROD SHALL BE CADWELDED.

THE CIRCULAR PULL BOX COVER SHOULD BE SIZED TO FIT A BOX WITH A CLEAR OPENING OF 25".

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JEFFERSON CITY, MO 65102
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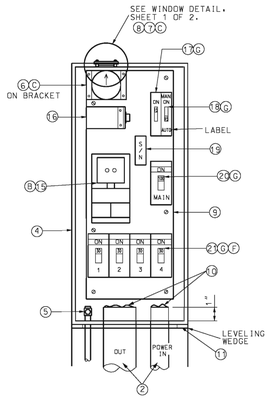
STATE OF MISSOURI KATHYN PHILIPS VARNEY NUMBER PE-2019 PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SEALED AND DATED ELECTRONICALLY

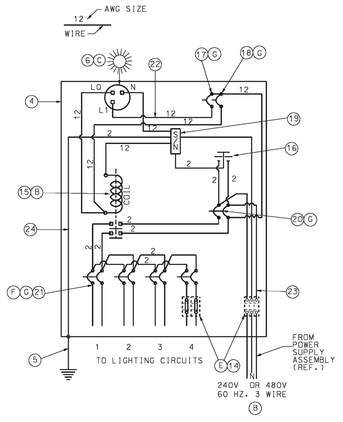
TRAFFIC SIGNALS
CONCRETE AND PREFORMED PULL BOXES

DATE EFFECTIVE: 11/01/2010
DATE PREPARED: 9/3/2010
902.20G
SHEET NO. 3 OF 3

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



EQUIPMENT LAYOUT



WIRING DIAGRAM

LIST OF MATERIALS	
ITEM	DESCRIPTION
2	RIGID CONDUIT *
4	NEMA 4. DUST-TIGHT. WATERTIGHT CABINET
5	GROUND ROD. 3/4" DIA. X 8' MIN.
6	PHOTOELECTRIC SWITCH AND SOCKET. 105/285 V.. 1000 WATT
7	TRANSLUCENT. PLEXIGLASS FILTER #W2067. 1/8" THICK
8	CLEAR. LEXAN #9034 WINDOW. 1/4" THICK MIN.
9	MOUNTING PAN. 31 1/2" x 12" x 1/4" ALUMINUM OR STAINLESS STEEL
10	PLIABLE SEALANT
11	LIFETIME SILICONE CAULK
14	INSULATED TERMINAL BLOCK. FOR GREATER THAN 4/0 CABLE
15(240V)	2-POLE. 100 AMP. 120V COIL LIGHTING CONTACTOR
15(480V)	2-POLE. 100 AMP. 240V COIL LIGHTING CONTACTOR
16	2-POLE. 650 VOLT LIGHTING ARRESTER
17	1-POLE. 15 AMP. TYPE B CONTROL BREAKER
18	1-POLE. 15 AMP.TYPE B MANUAL-AUTO SWITCH
19	INSULATED GROUNDABLE NEUTRAL. 100 AMP
20	2-POLE. 100 AMP. TYPE A MAIN BREAKER
21	2-POLE. 15 AMP(MIN). TYPE A LIGHTING BREAKERS
22	#12 AWG MIN., 600 V. CONTROL CABLE
23	#2 AWG MIN., 600 V. * POWER CABLE
24	#2 AWG MIN., 600 V. GROUND CABLE
*	SEE PLANS

NOTES

(B) LIGHTING SYSTEM VOLTAGE AS SPECIFIED ON PLANS.

(C) PHOTOELECTRIC SWITCH BRACKETS MAY VARY. LOCATE CENTER OF WINDOW OVER CENTER OF PHOTOELECTRIC SWITCH.

(E) IF FOR REASONS OF VOLTAGE DROP A WIRE SIZE IS SPECIFIED LARGER THAN THE BREAKER LUGS CAN ACCOMMODATE, AN INSULATED HEAVY DUTY TERMINAL BLOCK SHALL BE INSTALLED TO TERMINATE THE LARGER WIRES AND A SMALLER JUMPER CONNECTED TO THE BREAKER ITSELF.

(F) LIGHTING BREAKER SIZING:

SIZE (AMPS)	240V TOTAL CIRCUIT LOAD (WATTS)	480V TOTAL CIRCUIT LOAD (WATTS)
15	0-2800	0 - 5500
20	2850-3700	5550 - 7400
25	3750-4600	7450 - 9200
30	4650-5500	9250 - 11,000
35	5550-6500	--
40	6550-7400	--

CIRCUIT LOAD INCLUDES LOAD DUE TO LINE LOSS, LAMP, AND BALLAST LOAD.

(G) ALL CIRCUIT BREAKERS SHALL CONFORM TO SECTION 901.4 OF THE STANDARD SPECIFICATIONS.

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STATE OF MISSOURI ELDEN H. MOGUS NUMBER E-24080 PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SEALED AND DATED ELECTRONICALLY

HIGHWAY LIGHTING
BASE MOUNTED
CONTROL STATION
240 V OR 480 V - 4 CIRCUIT

DATE EFFECTIVE: 04/01/2005
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901.30F
SHEET NO. 2 OF 2

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Certificates of Authority
Architecture: MO 310 / KS 73
Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

STATE OF MISSOURI JADRIENNE S. RODELL-TIPTON NUMBER PE-2021032725 PROFESSIONAL ENGINEER
10/17/23

Jadrienne S. Rodell-Tipton, PE
PE-2021032725 (MISSOURI #)

PREPARED FOR:
GRIFFIN RILEY
PROPERTY GROUP, LLC
21 SE 29th TERRACE,
LEE'S SUMMIT, MO 64082

PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

REVISIONS
NO.	DATE / DESCRIPTION
1	
2	
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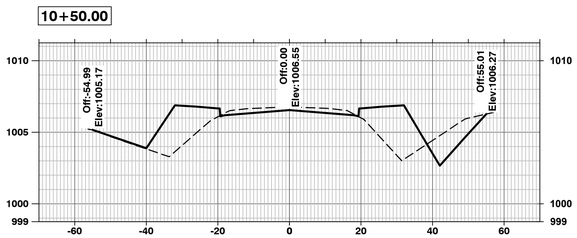
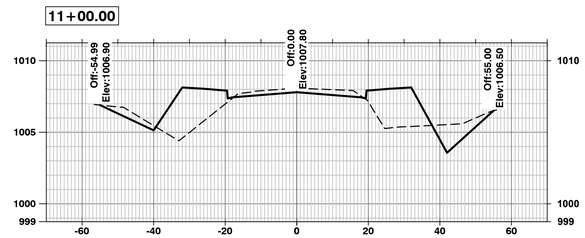
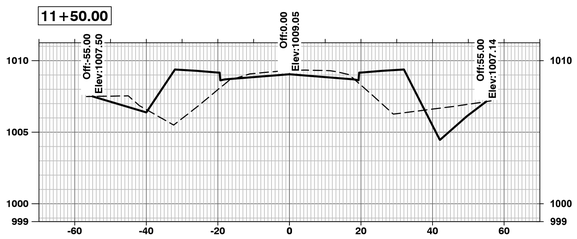
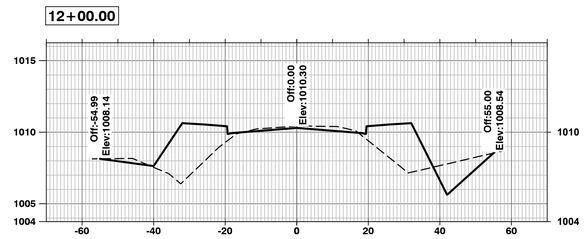
PROJECT #: 22-2087
ISSUE DATE: 03-28-2023
PERMIT

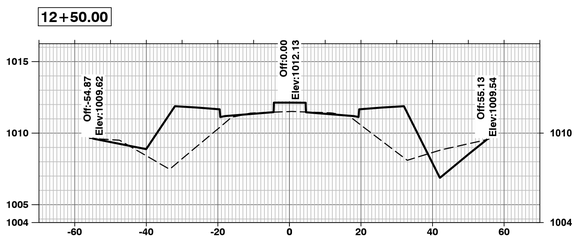
STREET LIGHTING DETAILS

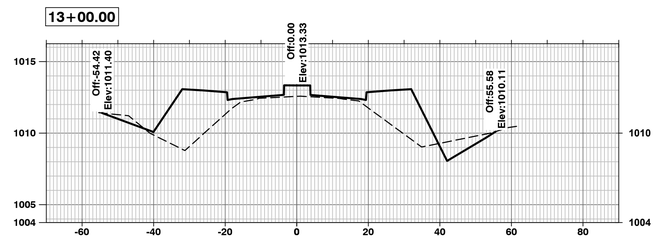


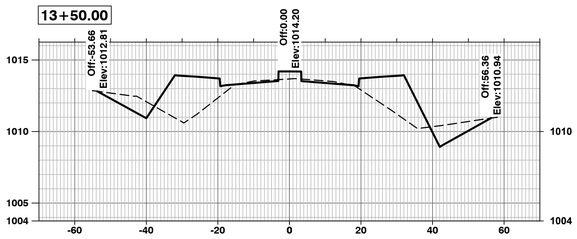


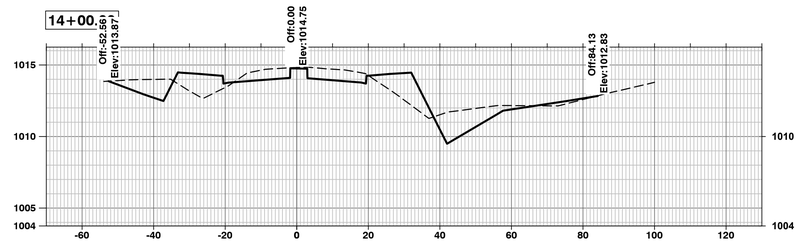












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Architecture: MO 310 / KS 73
Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

STATE OF MISSOURI
JADRIENNE S. RODELL-TIPTON
NUMBER PE-2021032725
PROFESSIONAL ENGINEER
6/7/24

Jadrienne S. Rodell-Tipton, PE
PE-2021032725 (MISSOURI #)

PREPARED FOR:
GRIFFIN RILEY
PROPERTY GROUP, LLC
21 SE 29th TERRACE,
LEE'S SUMMIT, MO 64082

PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

REVISIONS
NO.	DATE / DESCRIPTION
1	
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PROJECT #: 22-2087
ISSUE DATE: 03-28-2023
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BLUE PARKWAY
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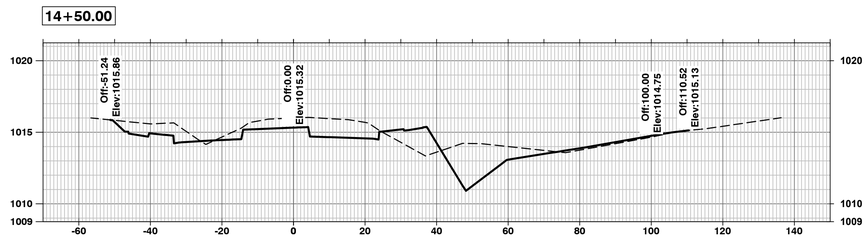

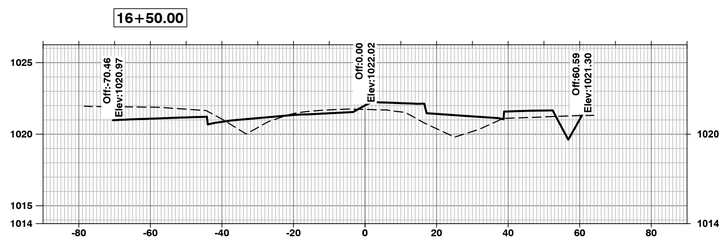

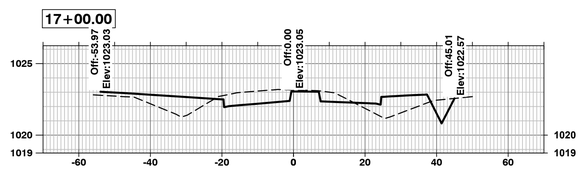

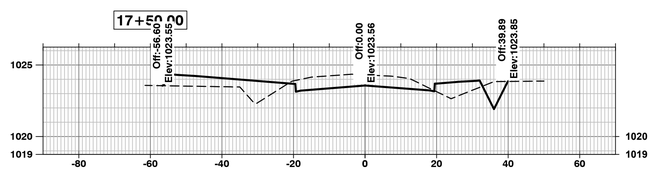

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STATE OF MISSOURI
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PUBLIC IMPROVEMENT PLANS
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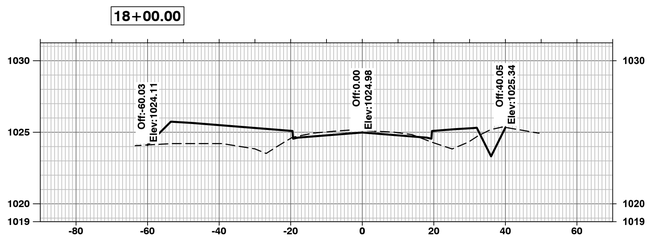

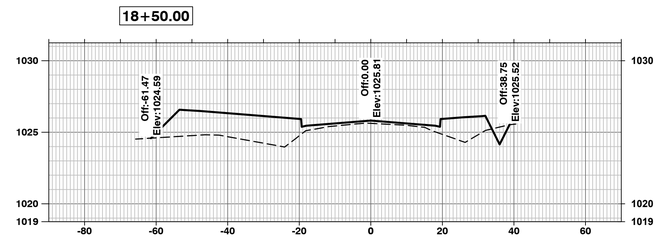

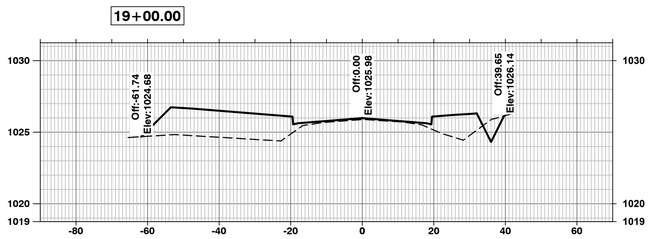

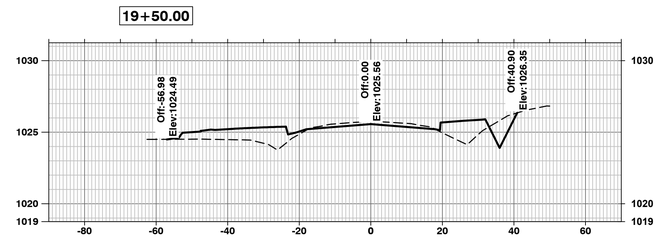

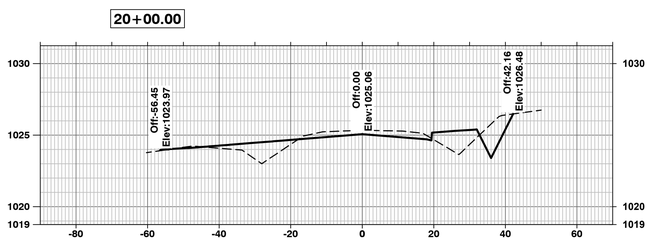

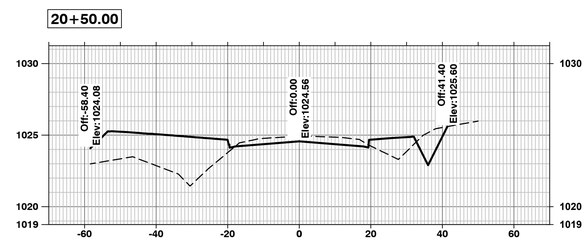

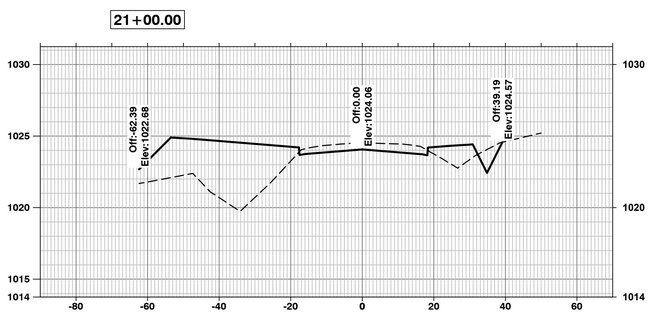

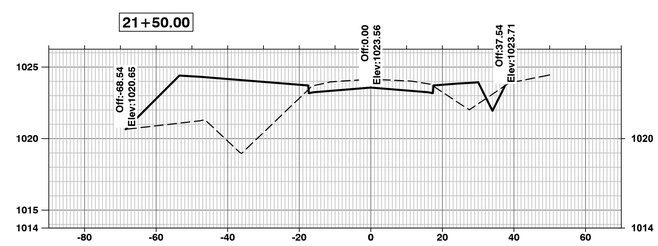

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21 SE 29th TERRACE,
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PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

REVISIONS
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PROJECT #: 22-2087
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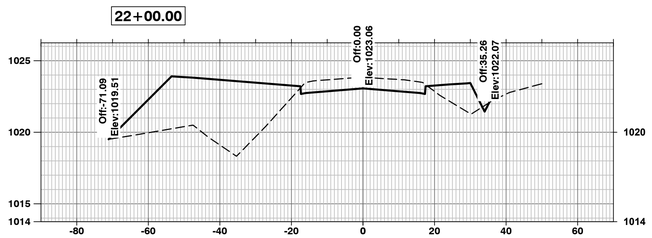
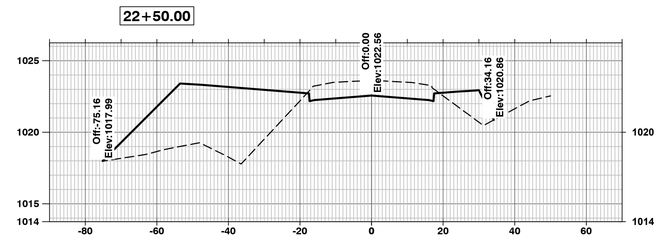
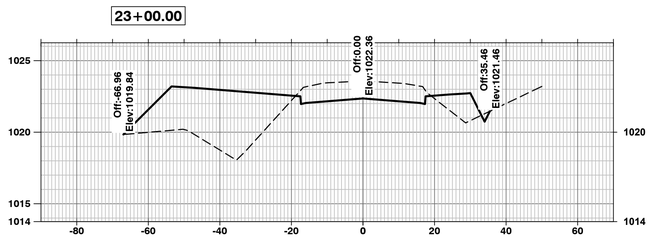
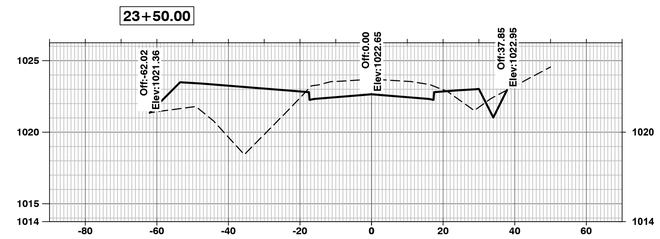
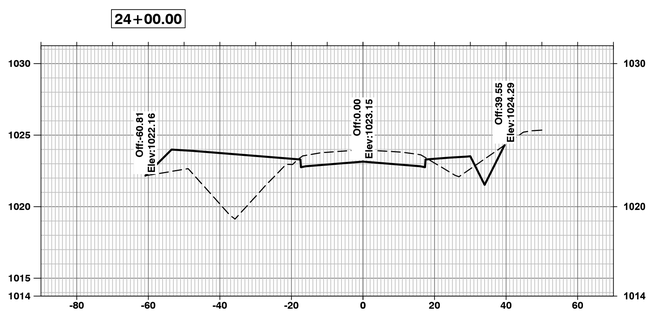
BLUE PARKWAY
XS

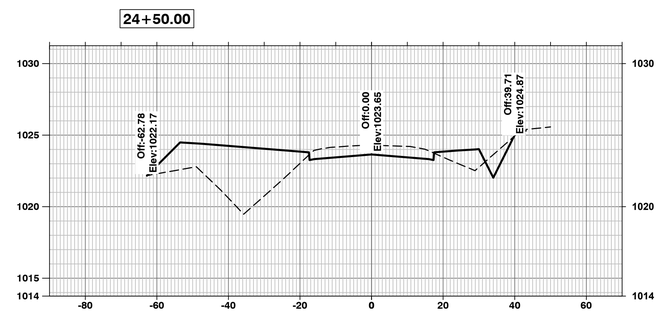












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Certificates of Authority
Architecture: MO 318 / KS 73
Engineering: MO 4 / KS 241
Land Surveying: MO 123 / KS 36

STATE OF MISSOURI
JADRIENNE S. RODELL-TIPTON
NUMBER
PE-2021032725
PROFESSIONAL ENGINEER
6/17/24

Jadrienne S. Rodell-Tipton, PE
PE-2021032725 (MISSOURI #)

PREPARED FOR:
GRIFFIN RILEY
PROPERTY GROUP, LLC
21 SE 29th TERRACE,
LEE'S SUMMIT, MO 64082

PUBLIC IMPROVEMENT PLANS
BLUE PARKWAY
LEE'S SUMMIT, JACKSON COUNTY, MO

REVISIONS
NO. DATE / DESCRIPTION
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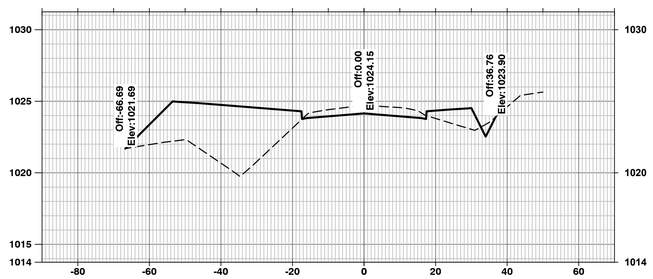
PROJECT #: 22-2087
ISSUE DATE: 03-28-2023

PERMIT

BLUE PARKWAY
XS

25+00.00



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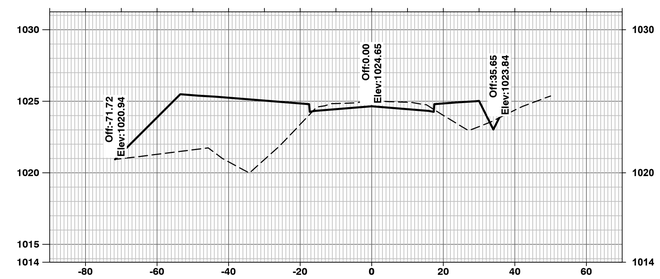

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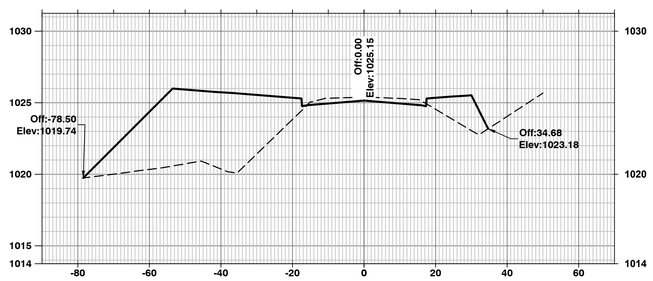

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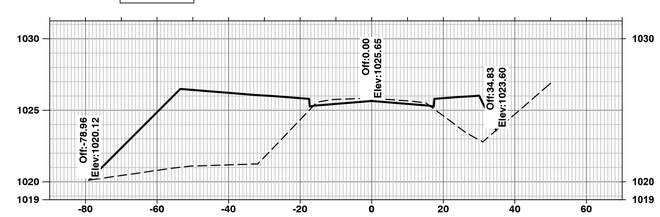

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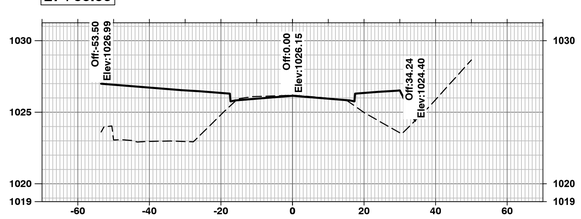

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