

ENGINEERING PLANS

FOR

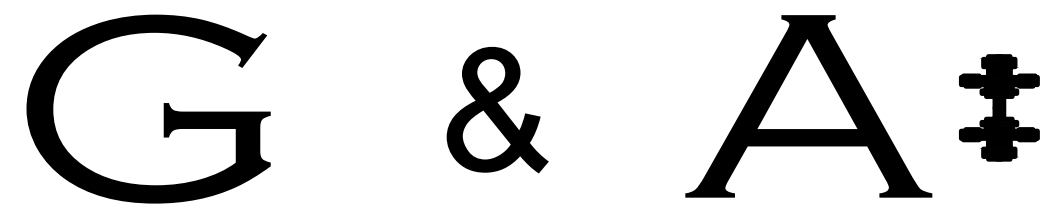
NEW SANCTUARY FOR SET FREE CHURCH

BY

GILLETTE & ASSOCIATES, INC.

CIVIL & ENVIRONMENTAL ENGINEERING
MECHANICAL & STRUCTURAL ENGINEERING
PERMITTING & CONSTRUCTION MANAGEMENT

20 SOUTH 4TH STREET AMELIA ISLAND, FLORIDA 32034
PHONE: 904/261-8819



ISSUE DATE: MAY 26, 2022
REVISION DATE: SEPTEMBER 2, 2022

PERMITTING AGENCIES
NASSAU COUNTY, FLORIDA
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
FLORIDA DEPARTMENT OF TRANSPORTATION

NEW SANCTUARY

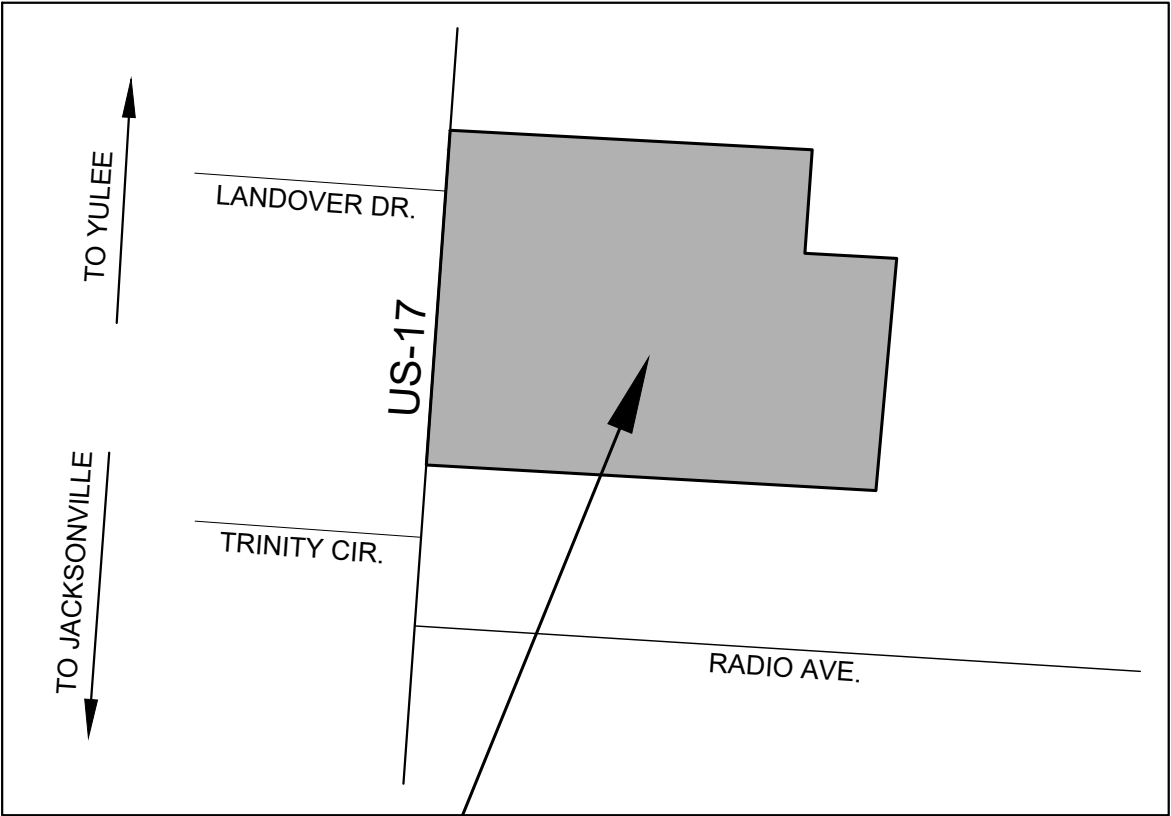
FOR

SET FREE CHURCH

RELEASED FOR CONSTRUCTION BY



SITE LOCATION MAP



SITE

SITE / GEOMETRY NOTES

1. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTOR'S PRICE FOR PERFORMING THE WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUBSURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR IS URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THIS PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT. ALL COSTS ASSOCIATED WITH PRELIMINARY INVESTIGATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER.
4. ELEVATIONS ARE BASED ON NAVD DATUM OF 1988.
5. TOPOGRAPHIC AND BOUNDARY INFORMATION WAS PROVIDED BY: MANZIE AND DRAKE LAND SURVEYING (904-491-5700).
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING, RIGHT-OF-WAY PERMITS NOT PROVIDED AND INSURANCE REQUIRED FOR THE PROJECT.
7. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN COUNTY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION & REPAIR.
8. THE CONTRACTOR SHALL ADVISE THE OWNER'S AUTHORIZED REPRESENTATIVE OF PLANNED WORK SCHEDULE. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD, AND THE OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
9. "AS-BUILT" DRAWINGS - AS-BUILTS ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION, AND SUBMITTAL OF AS-BUILT DRAWINGS.
10. "AS-BUILT" RECORD DATA AND INFORMATION SHALL BE MAINTAINED BY THE CONTRACTOR. RECORD DRAWINGS SHALL BE SUPPLIED TO THE ENGINEER.
11. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
12. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR ON A DAILY BASIS.
13. ALL EXCESS SUITABLE AND UNSUITABLE MATERIALS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
14. ALL EXISTING TREES LISTED TO REMAIN SHALL BE PRESERVED AND PROTECTED.
15. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES, AND IMPROVEMENTS ON THE DRAWINGS ARE BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN FIELD VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE CONTRARY TO ACTUAL FIELD LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THE DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITY IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR REPAIRS OR PAYMENTS FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS, AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH THEY SHALL CONNECT.
16. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER ON ALL MATERIALS, FOR REVIEW AND APPROVAL, PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY OR STRUCTURE.
- 17A. UNSUITABLE MATERIALS UNDER WATER, SEWER, OR STORM PIPE AND/OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL COMPACTED TO 98% OF IT'S MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D1557).
- 17B. ALL FINISH FLOORS SHOWN ON THE PLANS ARE MINIMUM ELEVATIONS
18. ALL WATER & SEWER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES.
19. WHEN DEWATERING CAPACITY REQUIRES A PERMIT (CUP), IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
20. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY HAZARD. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. WHERE PARALLEL WATER AND SEWER MAINS HAVE LESS THAN 10 FOOT HORIZONTAL SEPARATION, 20 FOOT LENGTHS OF C900 (DR18) WATER QUALITY PIPE SHALL BE USED WITH THE JOINTS STAGGERED AT 10 FOOT INTERVALS. THE PIPES SHALL BE PLACED IN SEPARATE TRENCHES WITH THE WATER MAIN AT LEAST 18 INCHES ABOVE THE SEWER.

SITE / GEOMETRY NOTES CONT.

21. WATER MAINS CROSSING SANITARY HAZARDS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER MAIN. WHERE WATER AND SEWER MAINS CROSS WITH BETWEEN 18 INCHES AND 6 INCHES OF VERTICAL CLEARANCE, A 20 FOOT SECTION OF C900 (DR18) WATER QUALITY PIPE SHALL BE CENTERED ON THE POINT OF THE CROSSING. THE CONTRACTOR SHALL FIELD VERIFY THE VERTICAL SEPARATION. THE MINIMUM SEPARATION BETWEEN WATER AND SEWER PIPES IS TO BE 6 INCHES OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
22. NO WATER MAIN PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER MANHOLE.
23. BLANK
24. TRACER WIRE SHALL BE PROVIDED ON ALL WATER MAINS AND FORCE MAINS. TRACER WIRE SHALL BE #10 UF SOLID COPPER WIRE, COATED, AND SUITABLE FOR BURIAL. COATING SHALL BE BLUE FOR WATER AND GREEN FOR SEWER MAIN CONNECTIONS. WIRE SHALL BE ATTACHED DIRECTLY TO TOP OF PIPE AND BROUGHT INTO EACH VALVE BOX AND COILED TO ALLOW FOR EASY ACCESS AND EXTENSION ABOVE FINISHED GRADE FOR ATTACHMENT OF LOCATING EQUIPMENT.
25. ALL PIPE LENGTHS ARE APPROXIMATE DIMENSIONS, ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH TYPICAL SECTIONS AND DETAILS AS SHOWN ON THE MISCELLANEOUS DETAILS SHEET AND IN ACCORDANCE WITH THE SPECIFICATIONS.
26. ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
27. GRADES SHOWN ON PLANS ARE EDGE OF PAVEMENT FINISHED GRADES UNLESS OTHERWISE NOTED.
28. SHOULD THE SURFACE OR SUBSURFACE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
29. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED UNLESS OTHERWISE SPECIFICALLY STATED. ALL DISTURBED AREAS WITHIN NASSAU COUNTY RIGHT OF WAY SHALL BE COVERED WITH BERMUDA SOD.
30. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF SEDIMENT-LADEN RUNOFF RESULTING FROM STORM EVENTS DURING THE CONSTRUCTION PHASE. EROSION CONTROL FACILITIES SHOULD BE INSTALLED EARLY DURING THE CONSTRUCTION PERIOD SO AS TO PREVENT THE TRANSPORT OF SEDIMENT INTO SURFACE WATERS. RE-VEGETATION AND STABILIZATION OF DISTURBED AREAS SHOULD BE ACCOMPLISHED IMMEDIATELY TO REDUCE THE POTENTIAL FOR FURTHER SOIL EROSION.
31. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND COUNTY BEFORE COMMENCING WORK.
32. MINIMUM COVER OVER PIPES SHALL BE 36" UNLESS OTHERWISE INDICATED.
33. ALL UNDERGROUND UTILITY COMPANIES SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
34. IN ADDITION TO THE SPECIFICATIONS AND DETAILS PROVIDED FOR THIS CONTRACT, THE NASSAU COUNTY STANDARD DETAILS AND SPECIFICATIONS (LATEST REVISION) SHALL ALSO BE USED FOR ANY ITEMS NOT COVERED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A SET OF STANDARD DETAILS AND SPECIFICATIONS FROM NASSAU COUNTY.
35. BACKFILL MATERIAL SHALL BE COMPACTED TO 100% (2%) UNDER EXISTING AND PROPOSED ROADWAYS.
36. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
37. STATIONING REFERS TO THE CENTERLINE OF THE ROADWAY EXCEPT AS NOTED ON PLANS. WHERE PAVEMENT SPLITS, THE STATIONING FOLLOWS THE INSIDE EDGE OF PAVEMENT UNTIL ROADWAY TRANSITIONS BACK TO THE TYPICAL ROADWAY SECTION
38. ALL CONSTRUCTION, MATERIAL, AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH COUNTY STANDARDS.

LEGEND

	EXISTING VALVE		PROPOSED SANITARY SEWER
	EXISTING WATER LINE		PROPOSED WATER LINE
	EXISTING SANITARY SEWER		PROPOSED SPOT ELEVATION
	EXISTING FIRE HYDRANT		DRAINAGE STRUCTURE
	EXISTING PROPERTY LINE		PIPE

INDEX

PAGE #	SHEET	DESCRIPTION
1	CVR	COVER SHEET
2	IN-1	INDEX SHEET
3	IN-2	NASSAU COUNTY NOTES
4	PRE-1	PREDEVELOPMENT PLAN
5	GE-1	GEOMETRY PLAN
6	DR-1	DRAINAGE PLAN
7	LS-1	LANDSCAPE PLAN
8	DT-1	MISCELLANEOUS DETAILS
9	DT-2	LANDSCAPING DETAILS

FIRE NOTES

1. WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO COMMENCING CONSTRUCTION WORK ON ANY STRUCTURE. (NFPA 1, 16.4.3.1.3, 2009 EDITION)
2. CLEARANCES OF SEVEN AND ONE HALF FEET (7 FT-6 IN.) IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT, WITH A FOUR FOOT CLEARANCE TO THE REAR OF THE HYDRANT. (NFPA 1, 18.3.4.1, 2009)
3. NEW FIRE HYDRANT(S) SHALL BE INSTALLED SO THAT POSITIONED NOT MORE THAN 7 FEET 6 INCHES AWAY FROM CURB OR BERM OF THE ROADWAY.

NOT FOR CONSTRUCTION

NOTE: SOME DETAILS IN THESE DRAWINGS ARE TO BE CONSIDERED TYPICAL AND MAY NOT BE CALLED OUT ON PLANS. CONTRACTOR SHALL BECOME FAMILIAR WITH AND FOLLOW ALL DETAILS DURING CONSTRUCTION IN ALL TYPICAL AREAS.

REGISTERED DESIGN PROFESSIONAL

ASA R. GILLETTE, P.E.
FLORIDA P.E. NO. 96177

REV	DATE	ITEM
0	05/25/22	ISSUE FOR NASSAU COUNTY ENGINEERING REVIEW
1	09/02/22	REVISED PER NASSAU COUNTY COMMENTS

GILLETTE & ASSOCIATES, INC.
CIVIL, ENVIRONMENTAL, MECHANICAL, & STRUCTURAL ENGINEERING
CERTIFICATE OF AUTHORIZATION NO. 9339
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20 S. 4th STREET * FERNANDINA BEACH, FL 32034
PHONE: 904-261-8819 * www.gilletteassociates.com

SET FREE SANCTUARY
85069 D Mobley Dr.
Yulee, Florida

DATE: 09/02/22

INDEX SHEET

North / Elev Key Sheet
IN-1
Page 2 of 9

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Nassau County Development Review General Notes:

1. Engineering Plans approval does not constitute permission to violate any adopted Federal, State, or Local law, code, or ordinance.
2. All work within the public streets and right-of-ways shall conform to Nassau County Land Development Codes (LDC), FDOT Standard Indices, Florida Greenbook, Nassau County Roadway and Drainage Standards, and Nassau County Standard Details as necessary. For any discrepancy between standards, the most stringent shall prevail.
3. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 6.2.4, site shall be constructed per approved construction drawings. Any substantial deviation shall be concurrently reviewed by Engineer of Record and Nassau County Development Review Committee prior to field changes.
4. A pre-construction meeting with Nassau County Engineering Services Construction Inspector is required. Attendees shall be Nassau County, Engineer of Record, Contractor, Testing firm, Paving firm, and utility companies per Nassau County Ordinance 99-17 Section 7.2.3. Nassau County may cancel pre-construction meeting if attendee list is inadequate. Nassau County Engineering Services can be reached at 904-530-6225.
5. The contractor shall schedule and coordinate all work with the appropriate Nassau County Construction Inspector assigned to the project per Nassau County Ordinance 99-17 Section 7.2.
6. All work shall be performed in a safe manner. All safety rules and guidelines of O.S.H.A. shall be followed. The contractor shall be wholly responsible for any injuries to his employees and any damage to private property or persons during the course of this project.
7. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 11.8.1, any disturbed areas within Nassau County Right-of-Way shall be sodded.
8. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 7.4.1, at the time of final inspection, grassing shall be a minimum of seventy percent coverage and fully established and/or sodding to be one hundred percent coverage and stabilized.
9. Engineer of Record approved shop drawings shall be provided to Nassau County Construction Inspector a minimum of one week before beginning structure installation.
10. Parking at mail kiosks is required per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 8.4. Mail kiosk locations are subject to USPS Postmaster approval.
11. The developer's contractor is the single responsible party for the proper implementation of an Erosion Protection Sediment Control (EPSC) within each lot or construction site. This includes the responsibility for the actions/inactions of employees, subcontractors, and/or suppliers.
12. Sidewalks to be provided and built in accordance Florida Building Code. All proposed sidewalks shall meet ADA requirements.
13. The Contractor shall comply with current Florida accessibility standards for all work on this project.
14. Per Ordinance 99-17 Section 8.5.1, minimum cover for water lines and force mains under pavement shall 42" and 36" in green areas.
15. All water, sewer, and storm water construction within Nassau County ROW shall be accomplished by an underground utility contractor licensed under the provisions of Chapter 409 of the Florida Statutes.
16. No work shall be permitted between the hours of 7:00 PM - 7:00AM without prior approval from Nassau County Engineering Services.
17. All trees required to be protected shall be flagged for protection prior to clearing.
18. All grading and placement of compacted fill shall be in accordance with the latest Nassau County Specifications.
19. Any damages (sidewalk, curb, asphalt, ditch grading, et cetera) within Public Right-of-Way shall be repaired or replaced in accordance with Nassau County Specifications. Proposed repair method shall be approved by Nassau County Engineering Services.
20. Any asphalt millings from Nassau County ROW shall be delivered to the Road Department Laydown yard located on Gene Lasserre Boulevard or Pea Farm Road. Please contact the Road Department at (904) 530-6175.
21. Per Nassau County Ordinance 99-17 Section 7.4.2 and 7.4.4, as-built drawings shall be submitted to Nassau County before a final inspection can be scheduled. As-builts submittals will be in accordance with Nassau County as-built requirement checklist. As-built drawings shall be certified by required licensed surveyor and approved by Engineer of Record.

Nassau County Stormwater Drainage Notes:

1. All stormwater drainage facilities within Public Right-of-Way and paved areas, including Nassau County Right-of-Way, turn lanes, residential roadways, drive aisles for multi-family developments, and major drive aisles for commercial developments shall be laser profiled per FDOT Section 430.
2. A builder cannot modify the County's storm water management system including the pipes, inlets, area drains, ditches and related elements typically within the street or within a drainage easement without the prior written approval of the County Engineer or designee.
3. Drainage easements and ditches should remain free of stockpiled soil, sediment, mud, construction materials/waste, et cetera at all times. Positive stormwater flow must be maintained throughout construction.
4. The contractor shall temporarily or permanently stabilize bare soil areas and soil stockpiles when the area is inactive for fourteen days or more or has reached finished grade.
5. Per Ordinance 99-17 Section 11.11.5.4, all gravity flow pipe installations shall have a soil tight joint performance unless specific site factors warrant watertight joint performance.
6. Per Ordinance 99-17 Section 10.6.5.1, immediately install additional Erosion Protection Sediment Control measures if sediment is leaving your site. Failure to contain sediment to your site may result in delayed inspections, notices of violation, citations, fines, penalties, and/or stop work orders.
7. Per 99-17 Section 10.1.2.a-e, stormwater management for a project shall not have adverse effects on adjacent properties, downstream structures, or rights of other landowners.

Nassau County Paving Notes:

1. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 12.2 and 12.4, a construction bond and 26-month maintenance bond will be required for all work within Nassau County Right-of-Way.
2. A pre-pave meeting is required prior to any paving operations within Nassau County ROW, residential subdivisions, or multi-family developments.
3. Approved mix designs shall be provided to Nassau County Construction Inspector 48 hours prior to pre-pave meeting or placement of concrete.
4. Contractor is required to have a Certified QC Asphalt Level II Technician during any asphalt operations within Nassau County ROW, residential subdivision, or multi-family developments.
5. All bases shall be primed in accordance with Ordinance 99-17 Section 11.5.2.3, Nassau County Standard Details, and FDOT Standard Specifications.
6. Signage and pavement markings shall be in compliance with Nassau County Standards, Manual on Uniform Traffic Control Devices (MUTCD), and FDOT Standard Plans.
7. Maintenance of Traffic (MOT) shall be in compliance with FDOT Standard Index 600 Series.
8. All work, materials, and testing performed within Nassau County right-of-way and single-family/multi-family developments shall be in accordance with the current revision of Nassau County's Ordinance 99-17 and all current Nassau County Standard Details.
9. Per Ordinance 99-17 Section 11.9.2, all pavement markings within Nassau County ROW shall be lead free thermoplastic meeting Nassau County and FDOT Standard Specification Latest Edition.
10. Removing pavement markings within Nassau County ROW shall be:
 - a. Grinding or hydro-blasting on weathered asphalt surfaces.
 - b. Hydro-blasting only on new asphalt surfaces.
 - c. Paint Blackout is prohibited.
11. Per Ordinance 99-17 Section 8.5.5, any damage to pavement resulting from construction or pavement marking removal within Public ROW not planned as part of the project shall be milled and overlaid for entire width of roadway and length of damage plus 50' in each direction.
12. All underground utilities, or appropriate conduit sleeves, that are to be installed under pavement must be installed prior to preparation of the subgrade for pavement.
13. Single Vertical Joints in roadway construction shall be avoided in Nassau County Right-of-Way using Nassau County Standard Detail #26.
14. All drainage structures shall have traffic bearing grates that meet or exceed the rating for the facilities expected traffic.
15. All concrete shall be a minimum of 3000 psi within Public Right-of-Way.

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NASSAU COUNTY NOTES

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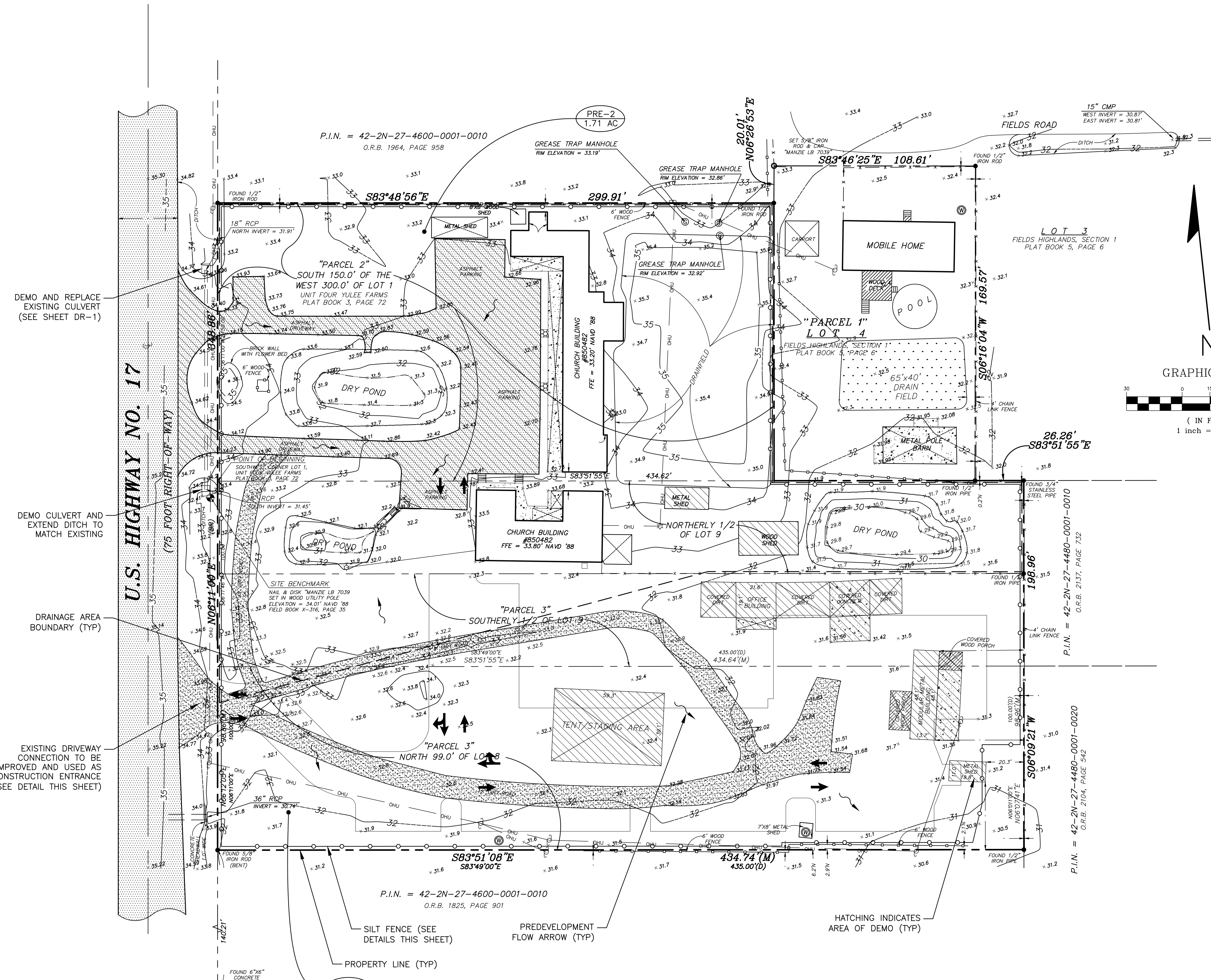
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REV	DATE	ITEM
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GILLETTE & ASSOCIATES, INC.
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 85069 D Mobley Dr.
 Yulee, Florida

DATE: 09/02/22
 PREDEVELOPMENT PLAN
 PRE-1
 Page 4 of 9



DEMO AND REPLACE EXISTING CULVERT (SEE SHEET DR-1)

DEMO CULVERT AND EXTEND DITCH TO MATCH EXISTING

DRAINAGE AREA BOUNDARY (TYP)

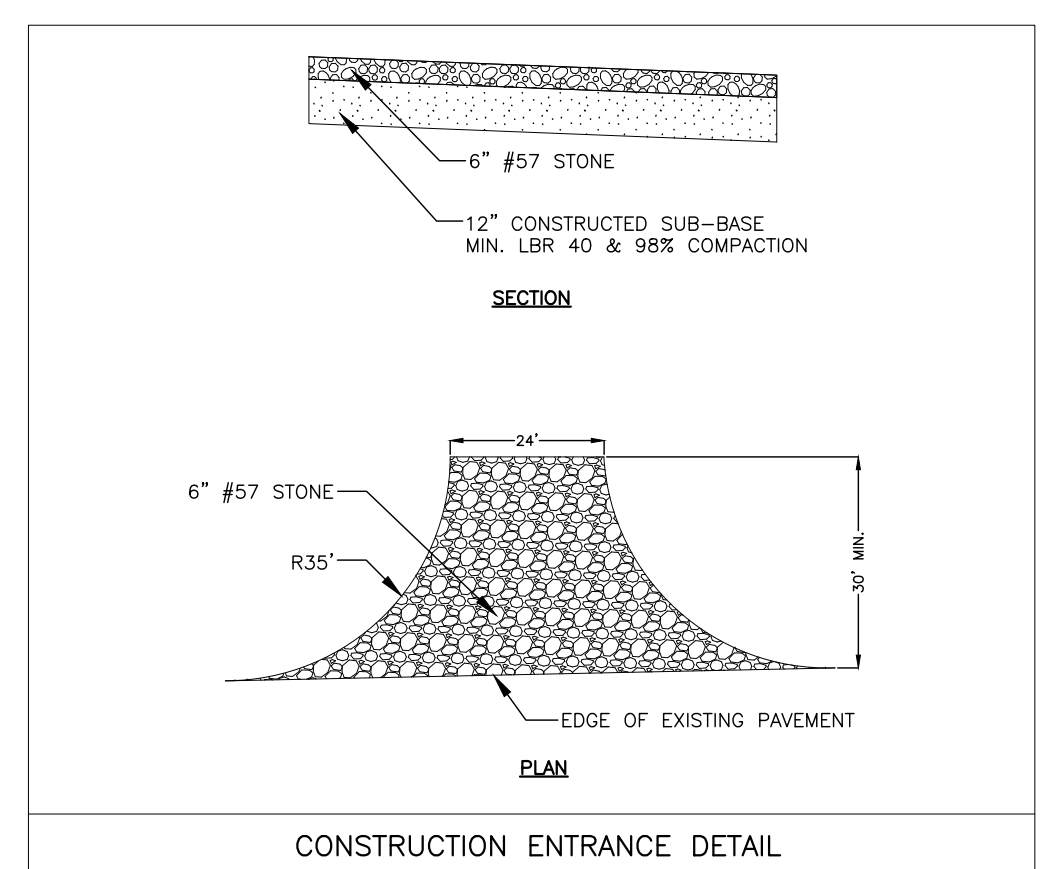
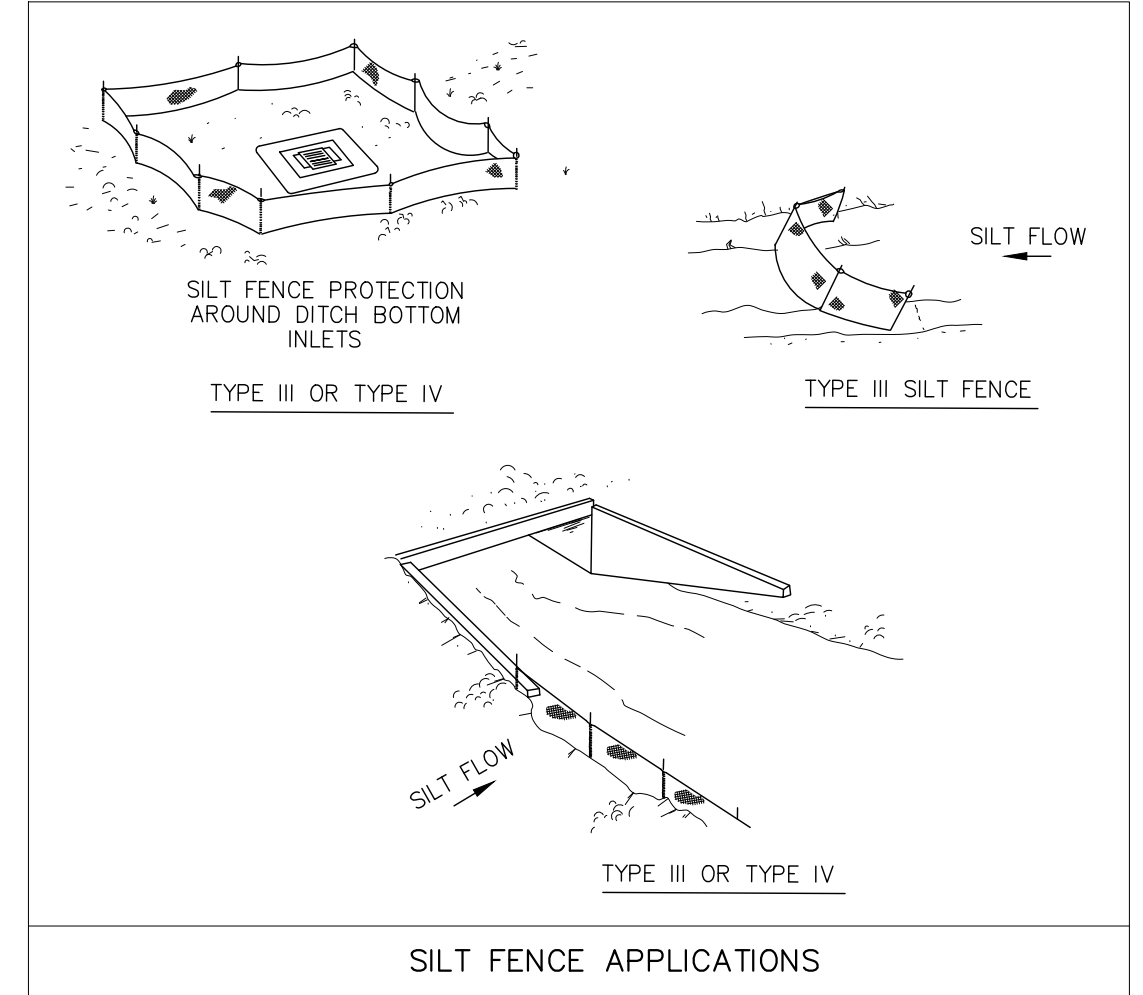
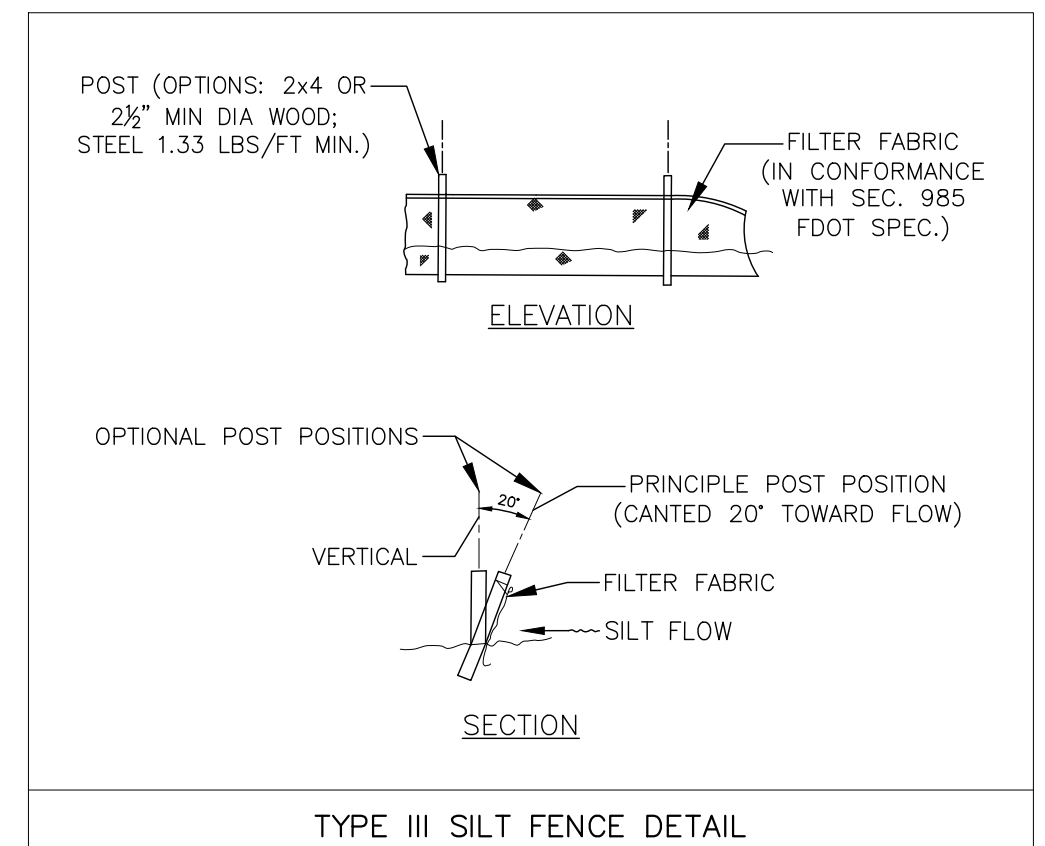
EXISTING DRIVEWAY CONNECTION TO BE IMPROVED AND USED AS CONSTRUCTION ENTRANCE (SEE DETAIL THIS SHEET)

P.I.N. = 42-2N-27-4600-0001-0010
O.R.B. 1964, PAGE 958

P.I.N. = 42-2N-27-4600-0001-0010
O.R.B. 1825, PAGE 901

P.I.N. = 42-2N-27-4480-0001-0010
O.R.B. 2137, PAGE 732

P.I.N. = 42-2N-27-4480-0001-0020
O.R.B. 2104, PAGE 542



SILT FENCE (SEE DETAILS THIS SHEET)

PREDEVELOPMENT FLOW ARROW (TYP)

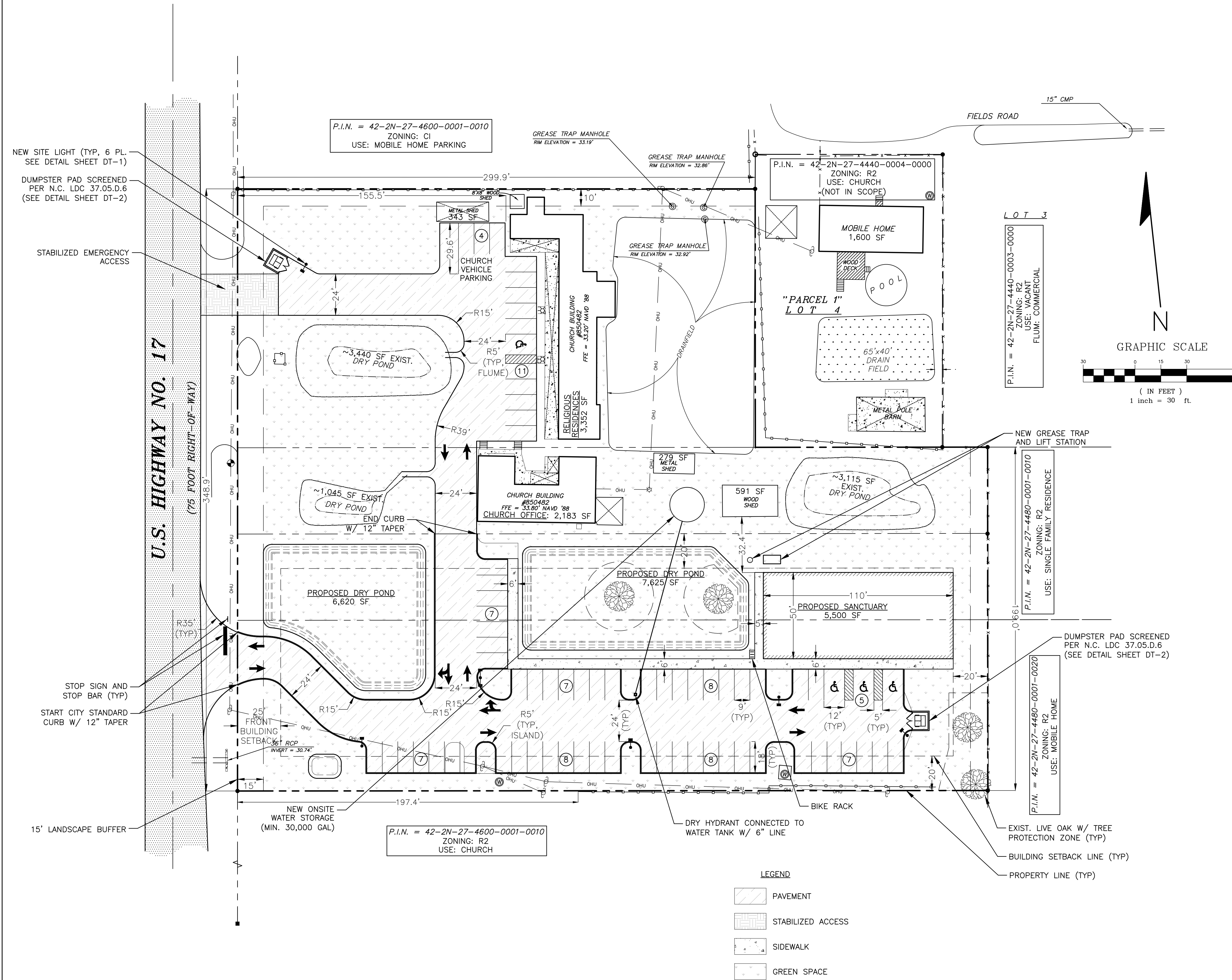
HATCHING INDICATES AREA OF DEMO (TYP)

PRE-1
1.31 AC

PRE-2
1.71 AC

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REGISTERED DESIGN PROFESSIONAL
ASA R. GILLETTE, P.E.
FLORIDA P.E. NO. 96177



NOTES

PROPERTY
 PARCEL IDS: 42-2N-27-4480-0008-0010
 42-2N-27-4600-0001-0020
 ZONING: CG (REZONING APPLICATION R21-009 APPROVED 11/08/21)
 LAND USE: CHURCH
 TOTAL LOT AREA: 3.02 AC
 FLOOD ZONE: X

US-17 SIDEWALK
 VARIANCE SP21-040 APPROVED 12/16/21

NEW BUILDING
 PROPOSED BUILDING AREA: 5,500 SF
 MAXIMUM HEIGHT: 40'
 PROPOSED HEIGHT: LESS THAN 35'
 FRONT SETBACK: 25 FT
 SIDE SETBACK: 20 FT
 REAR SETBACK: 20 FT

IMPERVIOUS AREA
 TOTAL PROPOSED IMPERVIOUS AREA: 1.22 AC
 MAXIMUM IMPERVIOUS SURFACE RATIO: 67%
 PROPOSED IMPERVIOUS SURFACE RATIO: 40.5%

FLOOR AREA RATIO
 TOTAL PROPOSED FLOOR AREA: 12,312 SF
 MAXIMUM FLOOR AREA RATIO: 40%
 PROPOSED FLOOR AREA RATIO: 9%

NEW PARKING
 CHURCH SEATS: 250
 SPACES REQUIRED: 1 SPACE/4 SEATS
 (250 SEATS)*(1 SPACE/4 SEATS) = 63 SPACES
 SPACES PROVIDED: 57 SPACES PLUS SHARED USE WITH RESIDENCE
 54 REGULAR SPACES
 3 HANDICAP SPACES

EXISTING PARKING
 OFFICE AREA: 2,183 SF
 OFFICE EMPLOYEES: 2
 OFFICE SPACES REQUIRED:
 1 SPACE/300 SF = 7 SPACES
 1 SPACE/2 EMPLOYEES = 1 SPACE
 RELIGIOUS RESIDENCE UNITS: 11
 RESIDENCE SPACES REQUIRED:
 1 SPACE/4 UNITS = 3 SPACES
 TOTAL SPACES REQUIRED: 11 SPACES
 SPACES PROVIDED: 11 TOTAL SPACES
 10 REGULAR SPACES
 1 HANDICAP SPACE

LANDSCAPE BUFFERS
 NORTH: MOBILE HOME PARKING
 REQUIRED BUFFER: 10' LOW DENSITY BUFFER

NORTH: CHURCH
 REQUIRED BUFFER: NONE

SOUTH: CHURCH
 REQUIRED BUFFER: NONE

EAST: SINGLE FAMILY RESIDENCE & MOBILE HOME
 REQUIRED BUFFER: 10' LOW DENSITY BUFFER

WEST: US 17
 REQUIRED BUFFER: 15' PERIMETER LANDSCAPING STRIP

LANDSCAPING REQUIREMENTS
 REQUIRED GREEN SPACE: 10% OF LOT = 0.30 AC
 PROPOSED GREEN SPACE: 0.92 AC

UTILITIES
 WATER: PRIVATE WELL
 FIRE PROTECTION: ONSITE STORAGE TANK
 SEWER: EXISTING SEPTIC

GILLETTE & ASSOCIATES, INC.
 CIVIL, ENVIRONMENTAL, MECHANICAL, & STRUCTURAL ENGINEERING
 CERTIFICATE OF AUTHORIZATION NO. 9339
 ASA R. GILLETTE, P.E. * FL. PE. NO. 96177
 20 S. 4th STREET * FERNANDINA BEACH, FL 32034
 PHONE: 904-261-8819 * www.gilletteassociates.com

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 85069 D Mobley Dr.
 Yulee, Florida

DATE: 09/02/22

GEOMETRY PLAN

NOTE: SOME DETAILS IN THESE DRAWINGS ARE TO BE CONSIDERED TYPICAL AND MAY NOT BE CALLED OUT ON PLANS. CONTRACTOR SHALL BECOME FAMILIAR WITH AND FOLLOW ALL DETAILS DURING CONSTRUCTION IN ALL TYPICAL AREAS.

REGISTERED DESIGN PROFESSIONAL
ASA R. GILLETTE, P.E.
FLORIDA P.E. NO. 96177

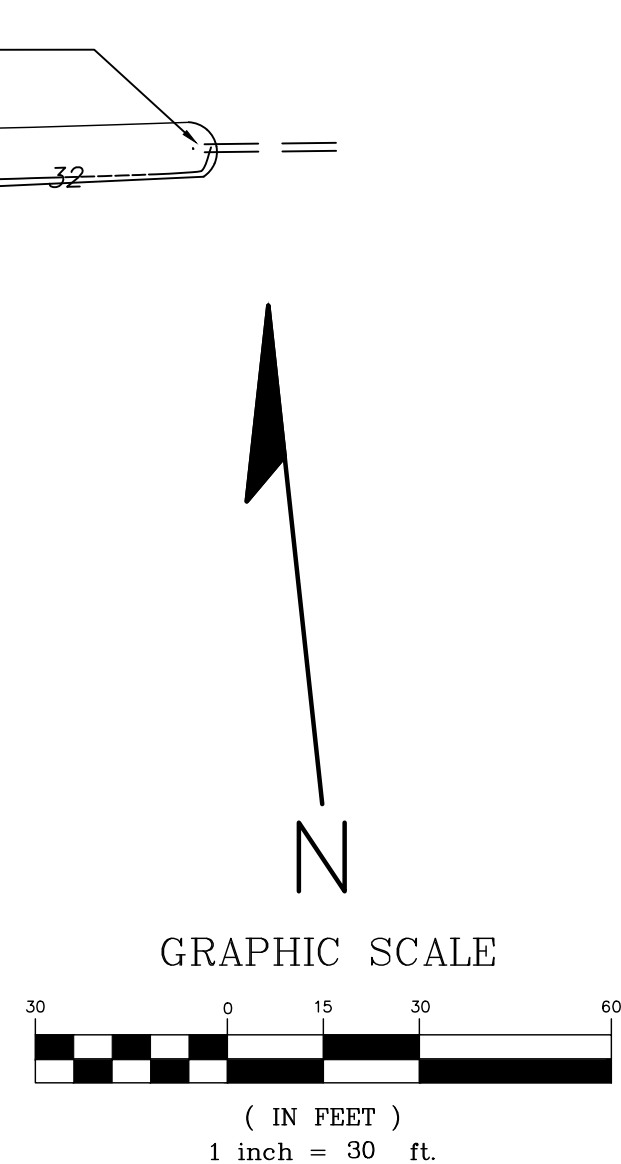
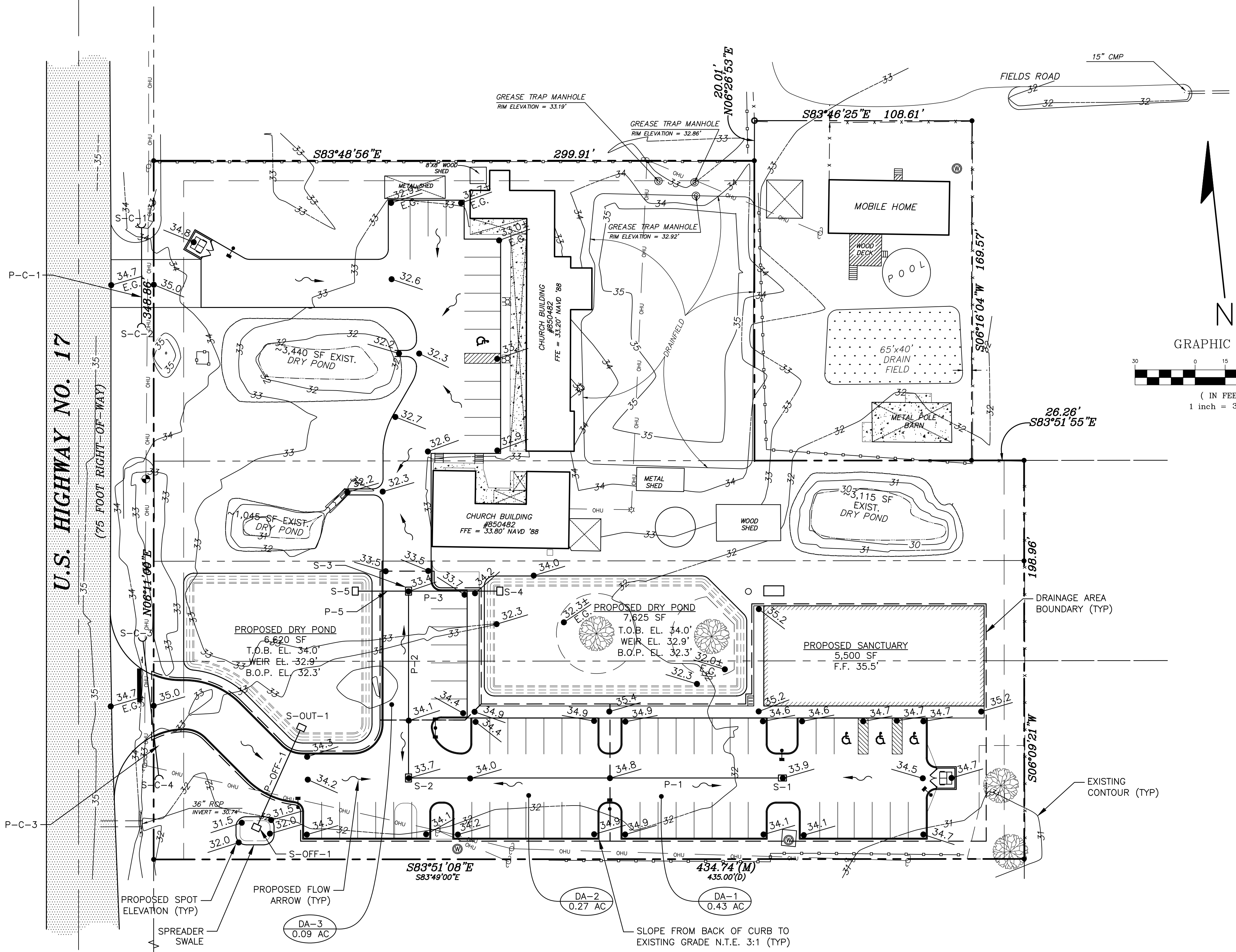
REV	DATE	ITEM
0	05/25/22	ISSUE FOR NASSAU COUNTY ENGINEERING REVIEW
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CIVIL, ENVIRONMENTAL, MECHANICAL, & STRUCTURAL ENGINEERING
CERTIFICATE OF AUTHORIZATION NO. 9339
ASA R. GILLETTE, P.E. * FL. PE NO. 96177
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DRAINAGE PLAN



NAME	TYPE	TOP/INLET ELEV.	INVERT ELEVATION			DRAINAGE AREA (Ac)
			N	S	E	
S-1	TYPE "C" INLET	33.90'	-	-	30.15'	0.43
S-2	TYPE "C" INLET	33.70'	-	-	29.68'	0.27
S-3	TYPE "C" INLET	33.40'	-	29.46'	29.46'	0.09
S-4	TYPE "C" INLET	32.30'	-	-	29.34'	-
S-5	TYPE "C" INLET	32.30'	-	-	29.40'	-
S-OUT-1	MOD. TYPE "E" INLET	33.40'	-	29.40'	-	-
S-OFF-1	TYPE "C" INLET	31.50'	29.25'	-	-	-
S-C-1	MES	-	-	31.91'	-	-
S-C-2	MES	-	31.54'	-	-	-
S-C-3	MES	-	-	31.50'	-	-
S-C-4	MES	-	31.40'	-	-	-

NAME	FROM	TO	SIZE	LENGTH	MATERIAL
P-1	S-1	S-2	18"	184'	HDPE
P-2	S-2	S-3	18"	88'	HDPE
P-3	S-3	S-4	18"	45'	HDPE
P-5	S-5	S-3	18"	51'	HDPE
P-OFF-1	S-OUT-1	S-OFF-1	18"	52'	HDPE
P-C-1	P-C-1	P-C-2	18"	48'	RCP
P-C-3	P-C-3	P-C-4	18"	67'	RCP

SLOPE FROM BACK OF CURB TO EXISTING GRADE N.T.E. 3:1 (TYP)

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FLORIDA P.E. NO. 96177

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CERTIFICATE OF AUTHORIZATION NO. 9332
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DATE: 09/02/22
LANDSCAPE PLAN
North / Elev Key Sheet
LS-1
Page 7 of 9

NOTES

LANDSCAPE BUFFERS
NORTH: MOBILE HOME PARKING
REQUIRED BUFFER: 10' LOW DENSITY BUFFER
NORTH FRONTAGE: 300'
REQUIRED PLANTINGS:
- 3 CANOPY TREES/100 LF = 9 CANOPY TREES
- 67 SHRUBS/100 LF = 201 SHRUBS
PROPOSED PLANTINGS:
- 9 CANOPY TREES
- 201 SHRUBS

NORTH: CHURCH
REQUIRED BUFFER: NONE
SOUTH: CHURCH
REQUIRED BUFFER: NONE
REQUIRED PLANTINGS: DRIVING AISLE SCREENING
PROPOSED PLANTINGS: DRIVING AISLE SCREENING HEDGE

EAST: SINGLE FAMILY RESIDENCE & MOBILE HOME
REQUIRED BUFFER: 10' LOW DENSITY BUFFER
EAST FRONTAGE: 199'
REQUIRED PLANTINGS:
- 3 CANOPY TREES/100 LF = 6 CANOPY TREES
- 67 SHRUBS/100 LF = 134 SHRUBS
PROPOSED PLANTINGS:
- 4 NEW CANOPY TREES AND 2 EXISTING TREES
- 134 SHRUBS

WEST: US 17
REQUIRED BUFFER: 15' PERIMETER LANDSCAPING STRIP
WEST FRONTAGE: 350'
REQUIRED PLANTINGS:
- 3 CANOPY TREES/100 LF = 11 CANOPY TREES
- 3 UNDERSTORY TREES/100 LF = 11 UNDERSTORY TREES
- DRIVING AISLE SCREENING
PROPOSED PLANTINGS:
- 11 CANOPY TREES
- 11 UNDERSTORY TREES
- DRIVING AISLE SCREENING HEDGE

LANDSCAPING REQUIREMENTS
REQUIRED GREEN SPACE: 10% OF LOT = 0.30 AC
PROPOSED GREEN SPACE: 0.92 AC
REQUIRED CANOPY TREES: 1/500 SF OF REQ. GREEN SPACE
= (13,142 SF)*(1 TREE/500 SF)
= 27 CANOPY TREES
PROPOSED PLANTINGS: 25 NEW CANOPY TREES AND 2 EXISTING TREES

IMPERVIOUS AREA
TOTAL PROPOSED IMPERVIOUS AREA: 1.22 AC
MAXIMUM IMPERVIOUS SURFACE RATIO: 67%
PROPOSED IMPERVIOUS SURFACE RATIO: 40.5%

PLANT MATERIAL
ALL INSTALLED TREES, SHRUBS AND GROUNDCOVERS SHALL CONFORM TO THE STANDARDS FOR FLORIDA GRADE #1 OR BETTER ACCORDING TO THE CURRENT EDITION OF "GRADES AND STANDARDS FOR NURSERY PLANTS" PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY. SYNTHETIC OR ARTIFICIAL TREES, SHRUBS, GROUNDCOVERS OR VINES ARE NOT ACCEPTABLE SUBSTITUTES. IN CHOOSING PLANT MATERIALS, CONSIDERATION SHOULD BE GIVEN TO THE AMOUNT OF SUN OR SHADE, THE WETNESS OR DRYNESS OF THE SOIL, THE EFFECTS OF SALT SPRAY (WHERE APPLICABLE), THE AMOUNT OF IRRIGATION REQUIRED AND THE MATURE SIZE AND SPATIAL NEEDS OF THE PLANTS CHOSEN.

SHRUBS SHALL HAVE A MINIMUM HEIGHT OF EIGHTEEN (18) INCHES WHEN PLANTED. WHEN PLANTED AS A HEDGE, THE MAXIMUM SPACING IS 30 INCHES ON CENTER. ALL SHRUBS USED FOR VISUAL SCREENING SHALL BE OF A ANT SPECIES THAT IS CAPABLE OF REACHING A HEIGHT OF FOUR (4) FEET WITHIN TWENTY-FOUR (24) MONTHS UNDER NORMAL GROWING CONDITIONS. SHRUBS USED AS ACCENT GROUND COVER AND VINES MAY VARY IN SIZE DEPENDING ON THE TYPE OF PLANT MATERIAL AND THE DESIRED EFFECT.

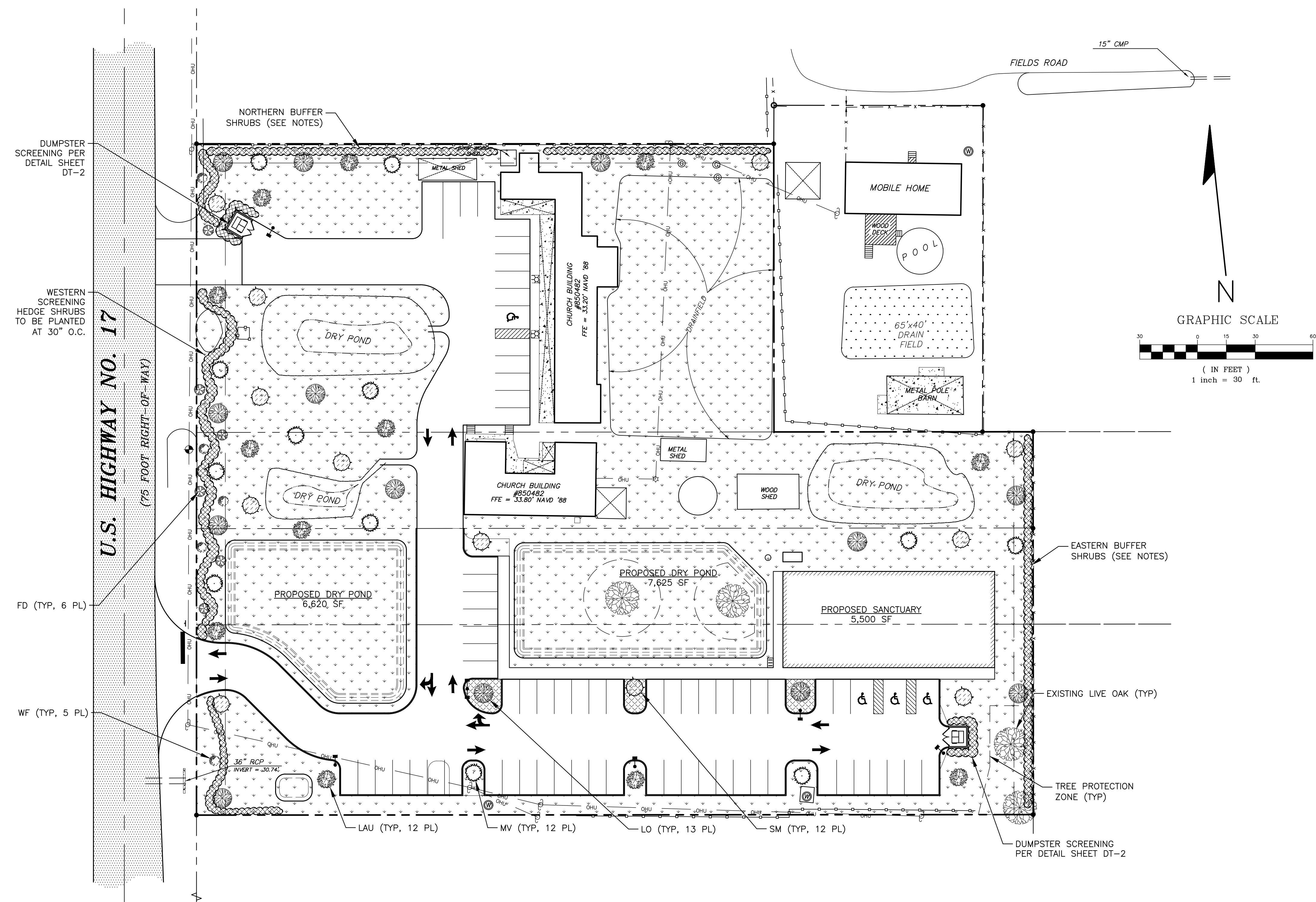
GROUNDCOVERS SHALL BE PLANTED IN SUCH MANNER AS TO PRESENT A FINISHED APPEARANCE AND COMPLETE COVERAGE WITHIN ONE (1) YEAR AFTER PLANTING.

ALL TREES PLANTED SHALL BE STAKED OR GUYED FOR A PERIOD OF AT LEAST SIX (6) MONTHS IN ACCORDANCE WITH THE TREE PLANTING DETAILS ON SHEET DT-2.

MAINTENANCE
THE PROPERTY OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPE AREAS REQUIRED BY THIS SECTION. MAINTENANCE INCLUDES IRRIGATING, MOWING, TRIMMING, FERTILIZING AND CARRYING OUT THOSE ACTIVITIES NECESSARY TO KEEP THE PLANT MATERIAL IN A HEALTHY AND GROWING CONDITION, MAINTAIN VISUAL CLEARANCE AND ALLOW PASSAGE OF VEHICLES AND PEDESTRIANS ON PUBLIC ROADS AND NON-EXCLUSIVE EASEMENTS.

UPON DETERMINATION BY THE COUNTY THAT A REQUIRED TREE OR PLANT IS DEAD OR SEVERELY DAMAGED OR DISEASED, THE TREE OR PLANT SHALL BE REPLACED BY THE OWNER WITH PLANT MATERIAL MEETING THE REQUIREMENTS OF THIS SECTION.

ALL BUFFER AREAS REQUIRED AS PART OF A DEVELOPMENT PLAN, WHETHER IN COMMON OR PRIVATE OWNERSHIP, SHALL BE THE RESPONSIBILITY OF THAT DEVELOPMENT'S PROPERTY OWNERS' ASSOCIATION. WHERE THERE IS NO PROPERTY OWNERS' ASSOCIATION, SUCH LANDSCAPED AREAS SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.



PLANT SCHEDULE				
SYMBOL	QTY.	KEY	SPECIES	SIZE/REMARKS
	13	LO	QUERCUS VIRGINIANA LIVE OAK	3" CAL MIN.
	12	SM	MAGNOLIA GRANDIFLORA SOUTHERN MAGNOLIA	3" CAL MIN.
	12	MV	MAGNOLIA VIRGINIANA SWEETBAY MAGNOLIA	3" CAL MIN.
	12	LAU	QUERCUS LAURIFOLIA LAUREL OAK	3" CAL MIN.
	6	FD	CORNUS FLORIDA FLOWERING DOGWOOD	3" CAL MIN.
	5	WF	CHIONANTHUS VIRGINICUS WHITE FRINGETREE	3" CAL MIN.
	~520	-	PITTOSPORUM TOBIRA	18" HT. MIN.
	8,500 SF	-	STENOTAPHRUM SECUNDATUM ST. AUGUSTINE GRASS	
	6,215 SF	-	MUHLENBERGIA CAPILLARIS MUHLY GRASS	

DUMPSTER SCREENING PER DETAIL SHEET DT-2

WESTERN SCREENING HEDGE SHRUBS TO BE PLANTED AT 30" O.C.

FD (TYP, 6 PL)

WF (TYP, 5 PL)

NORTHERN BUFFER SHRUBS (SEE NOTES)

DRY POND

DRY POND

PROPOSED DRY POND
6,620 SF

LAU (TYP, 12 PL)

MV (TYP, 12 PL)

LO (TYP, 13 PL)

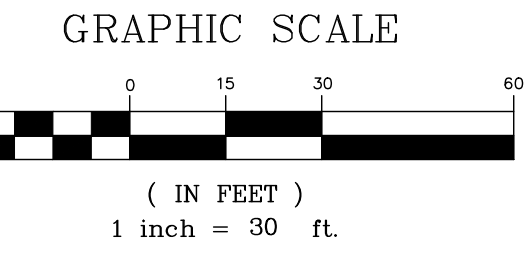
SM (TYP, 12 PL)

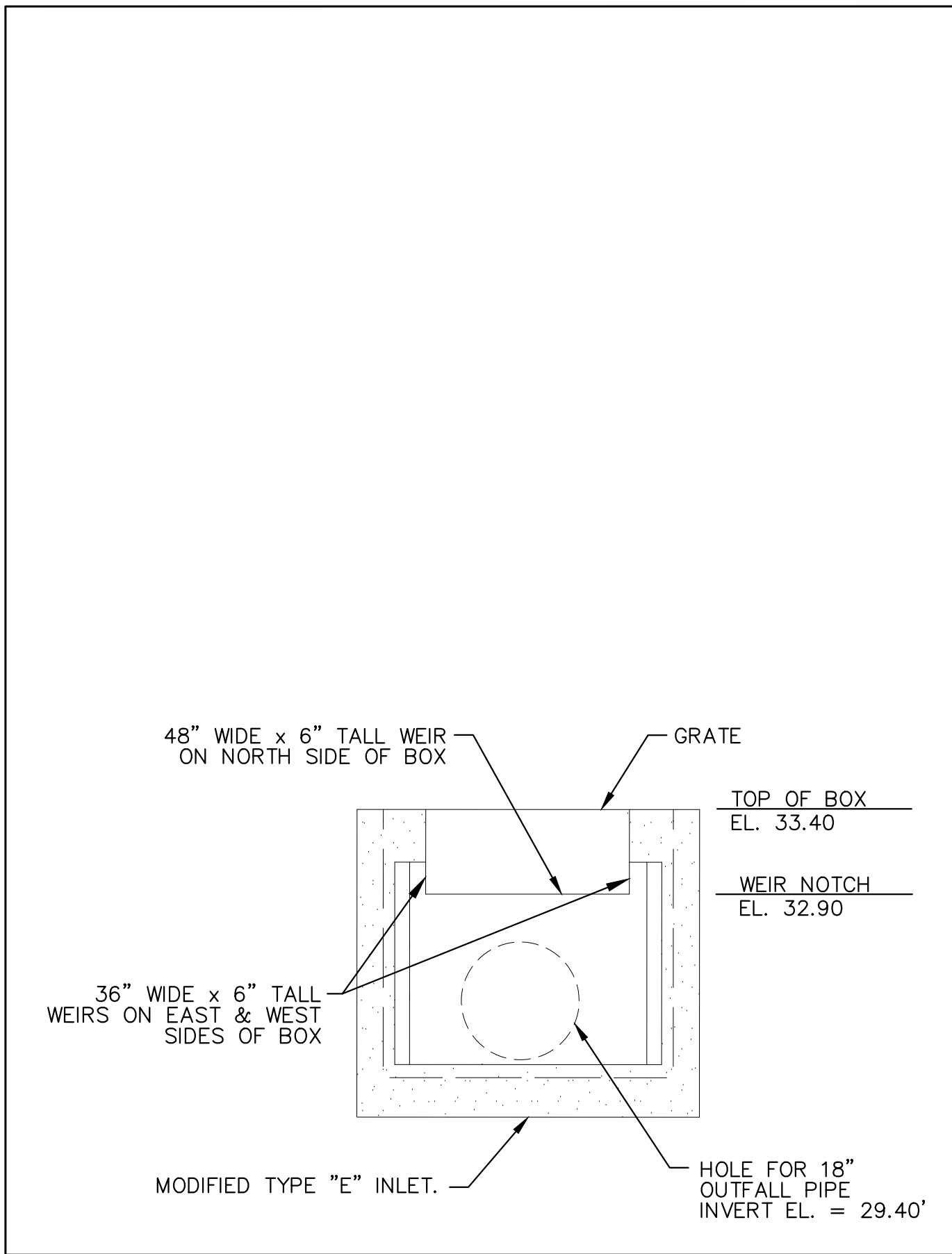
EASTERN BUFFER SHRUBS (SEE NOTES)

EXISTING LIVE OAK (TYP)

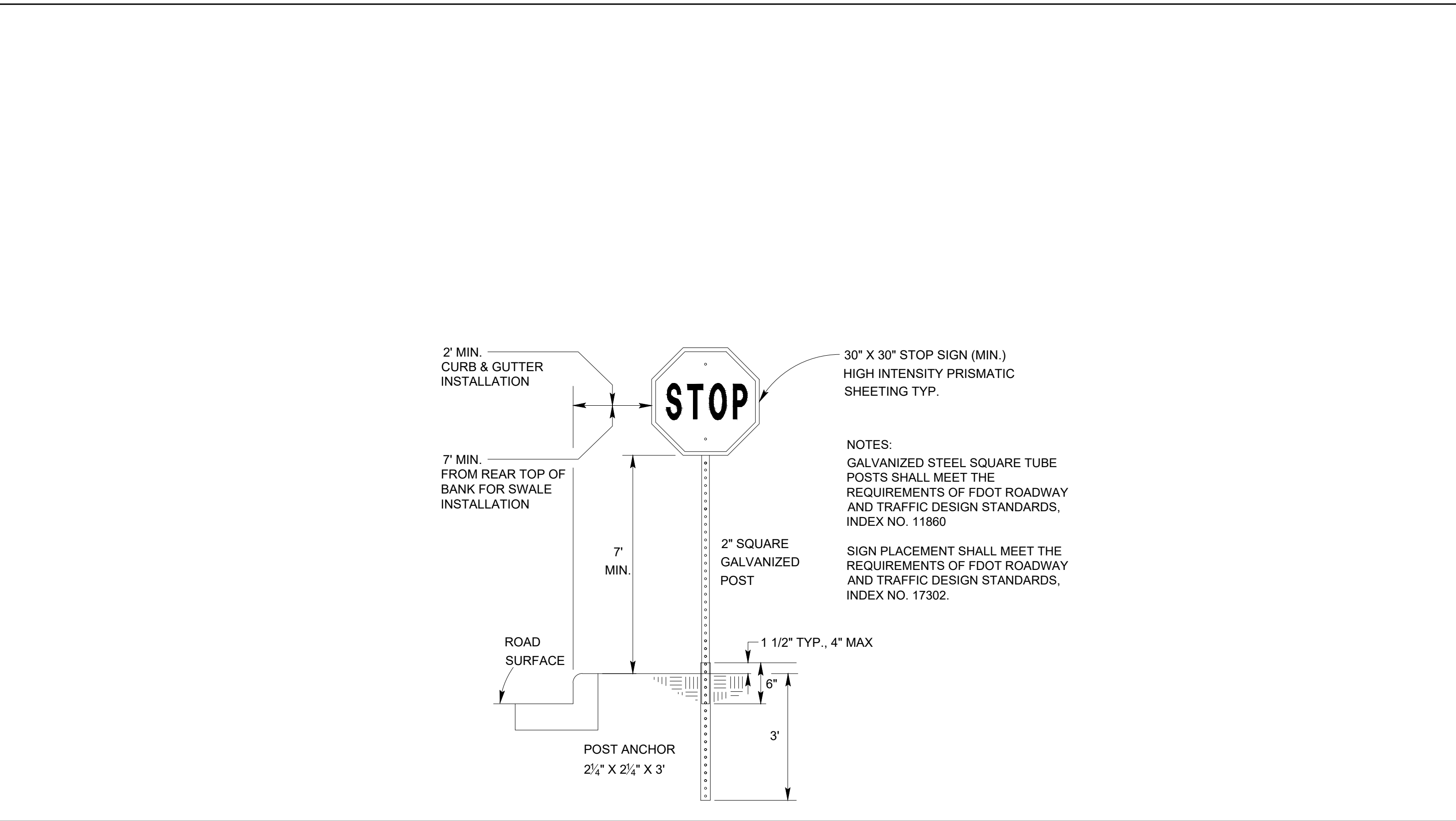
TREE PROTECTION ZONE (TYP)

DUMPSTER SCREENING PER DETAIL SHEET DT-2

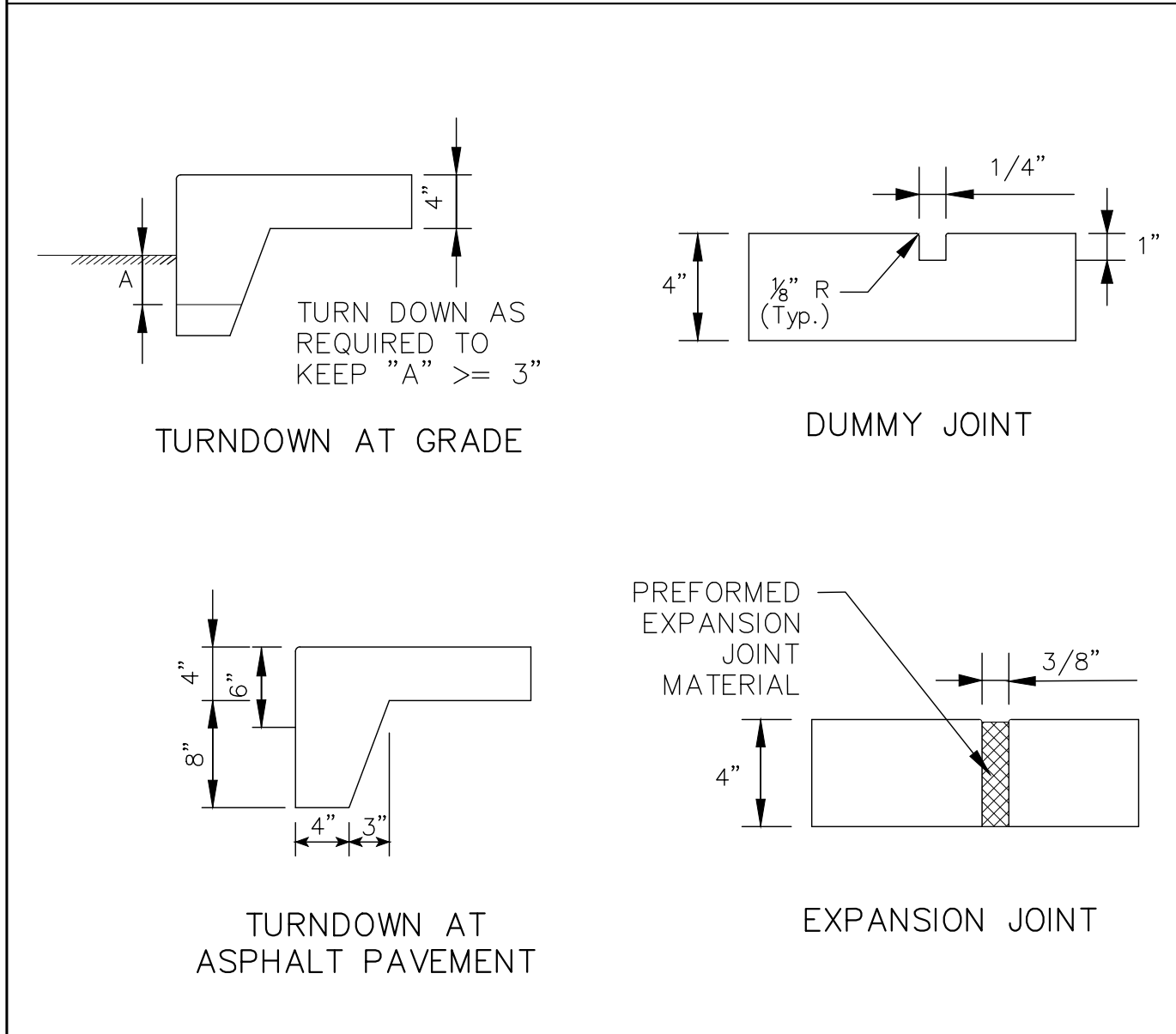




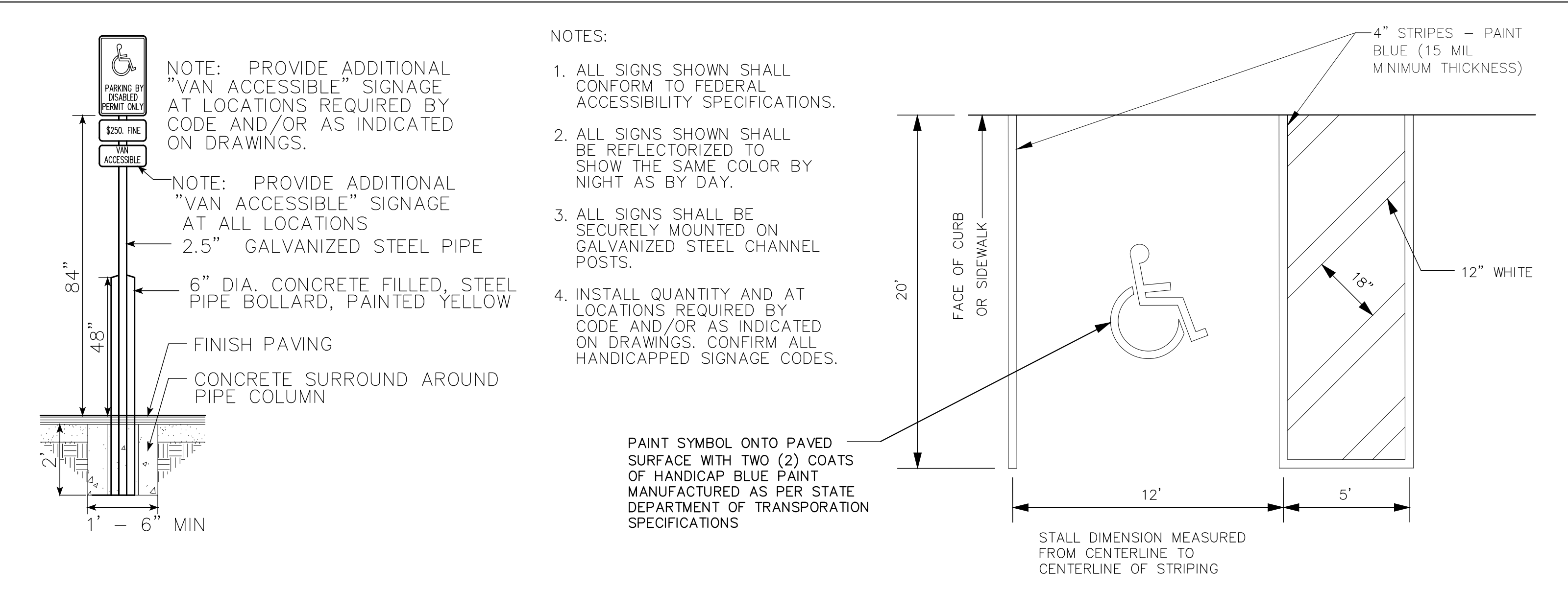
DROP STRUCTURE DETAIL



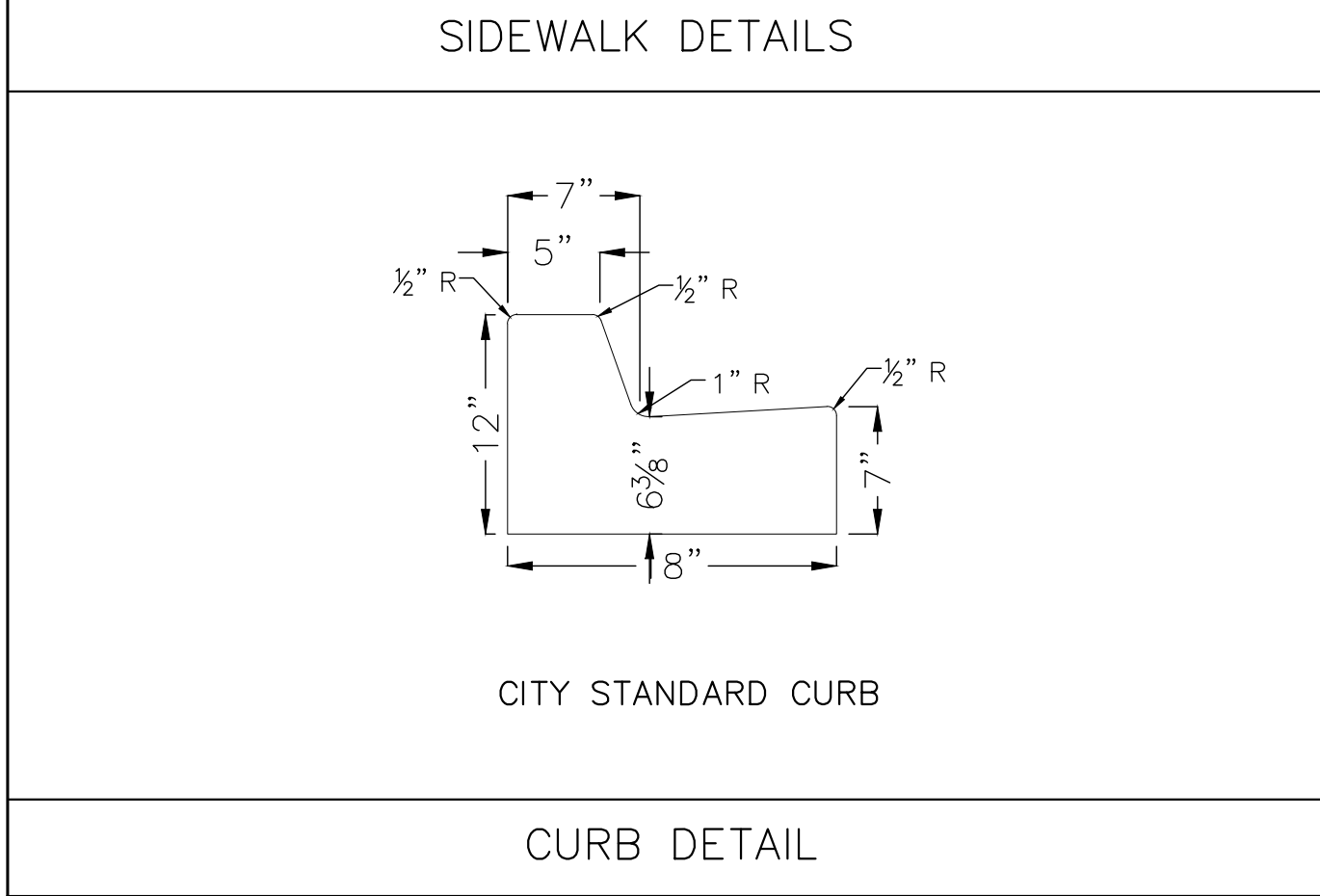
STOP SIGN DETAIL



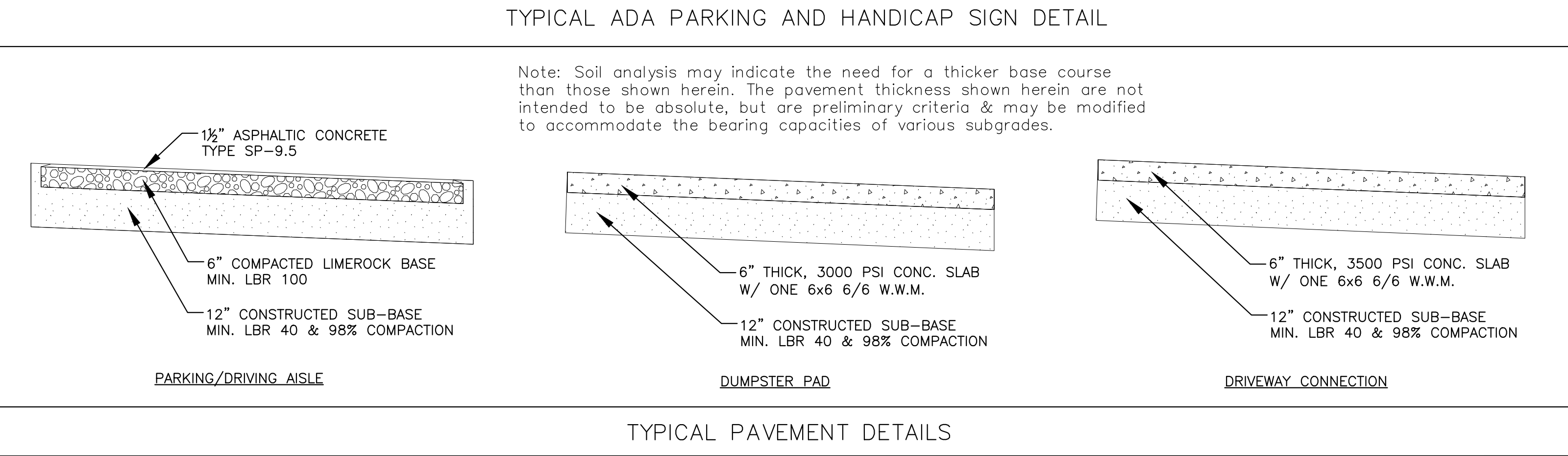
SIDEWALK DETAILS



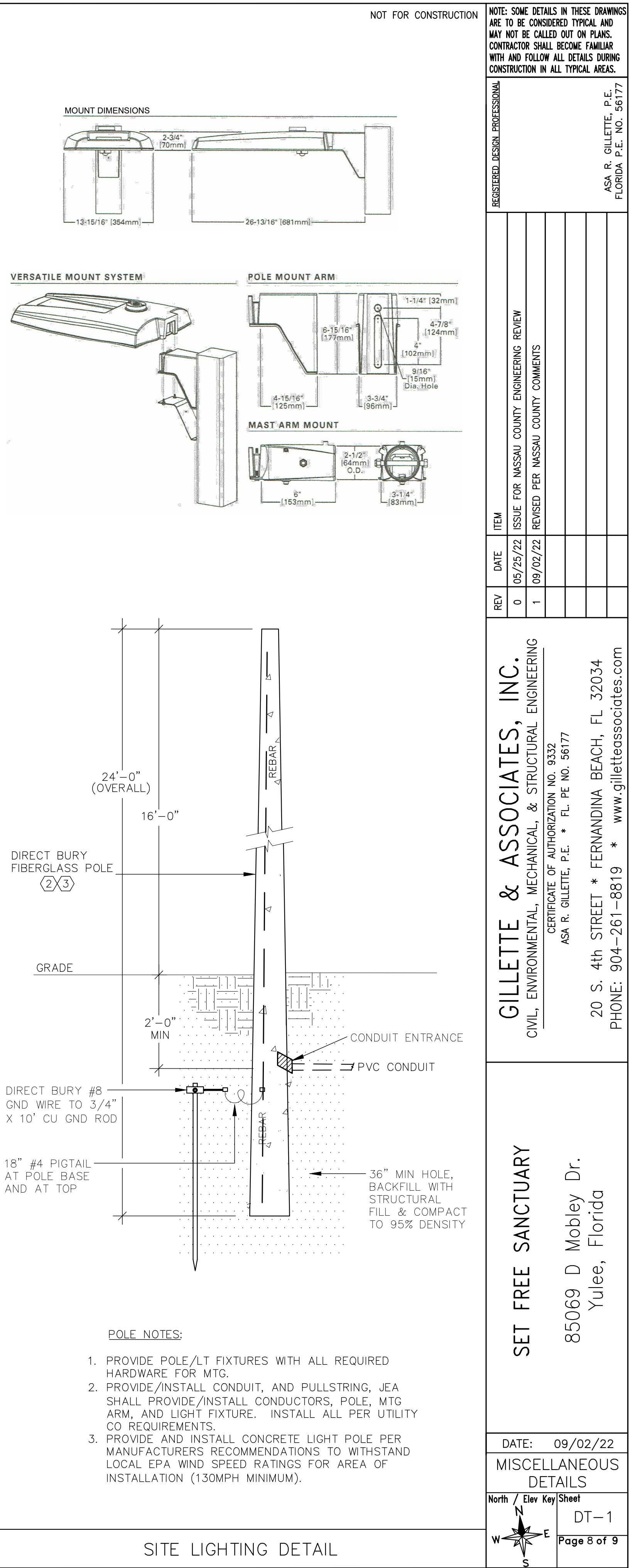
TYPICAL ADA PARKING AND HANDICAP SIGN DETAIL



CURB DETAIL



TYPICAL PAVEMENT DETAILS



SITE LIGHTING DETAIL

NOT FOR CONSTRUCTION

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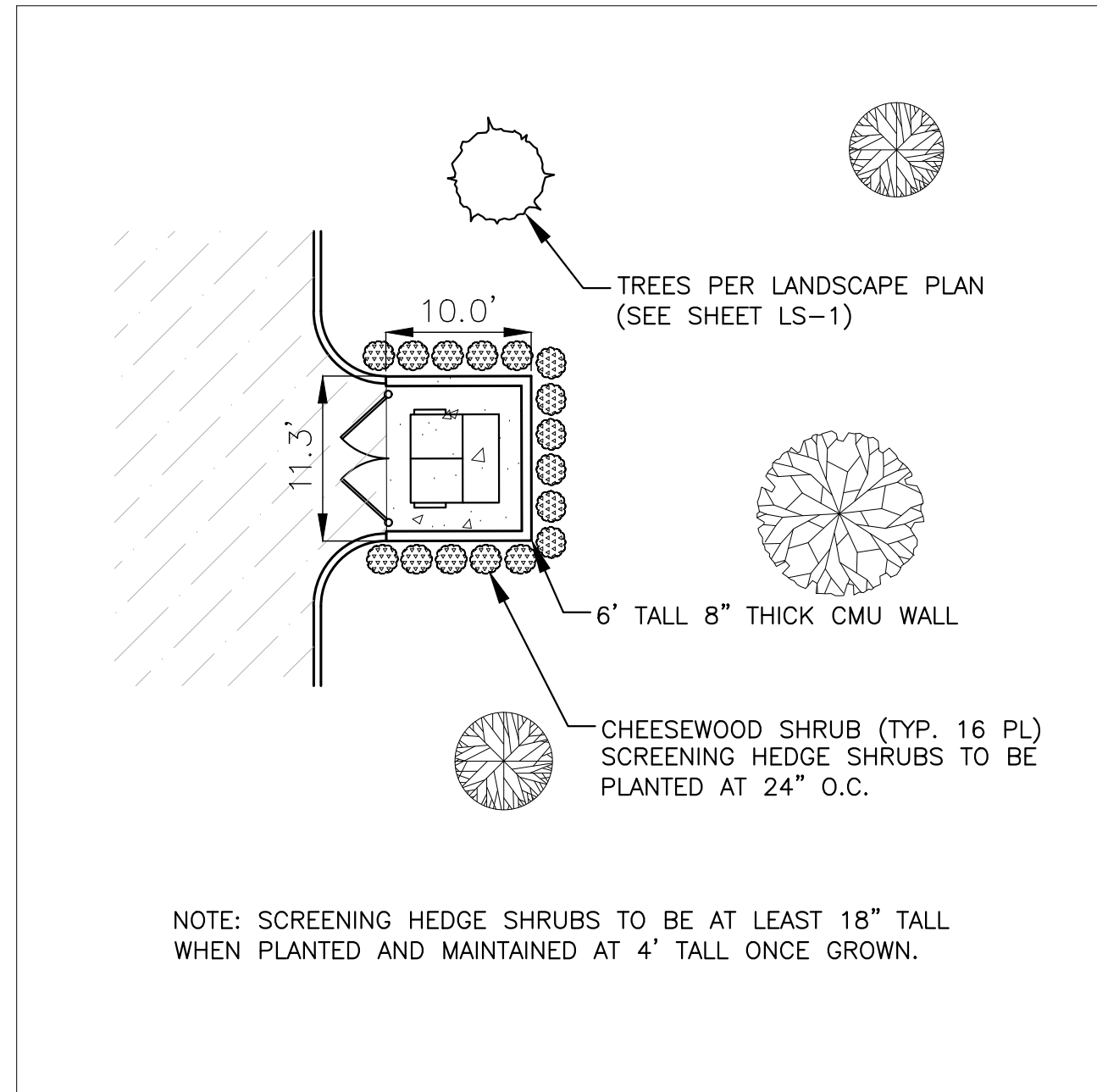
GILLETTE & ASSOCIATES, INC.
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DATE: 09/02/22
 MISCELLANEOUS DETAILS
 DT-1
 Page 8 of 9

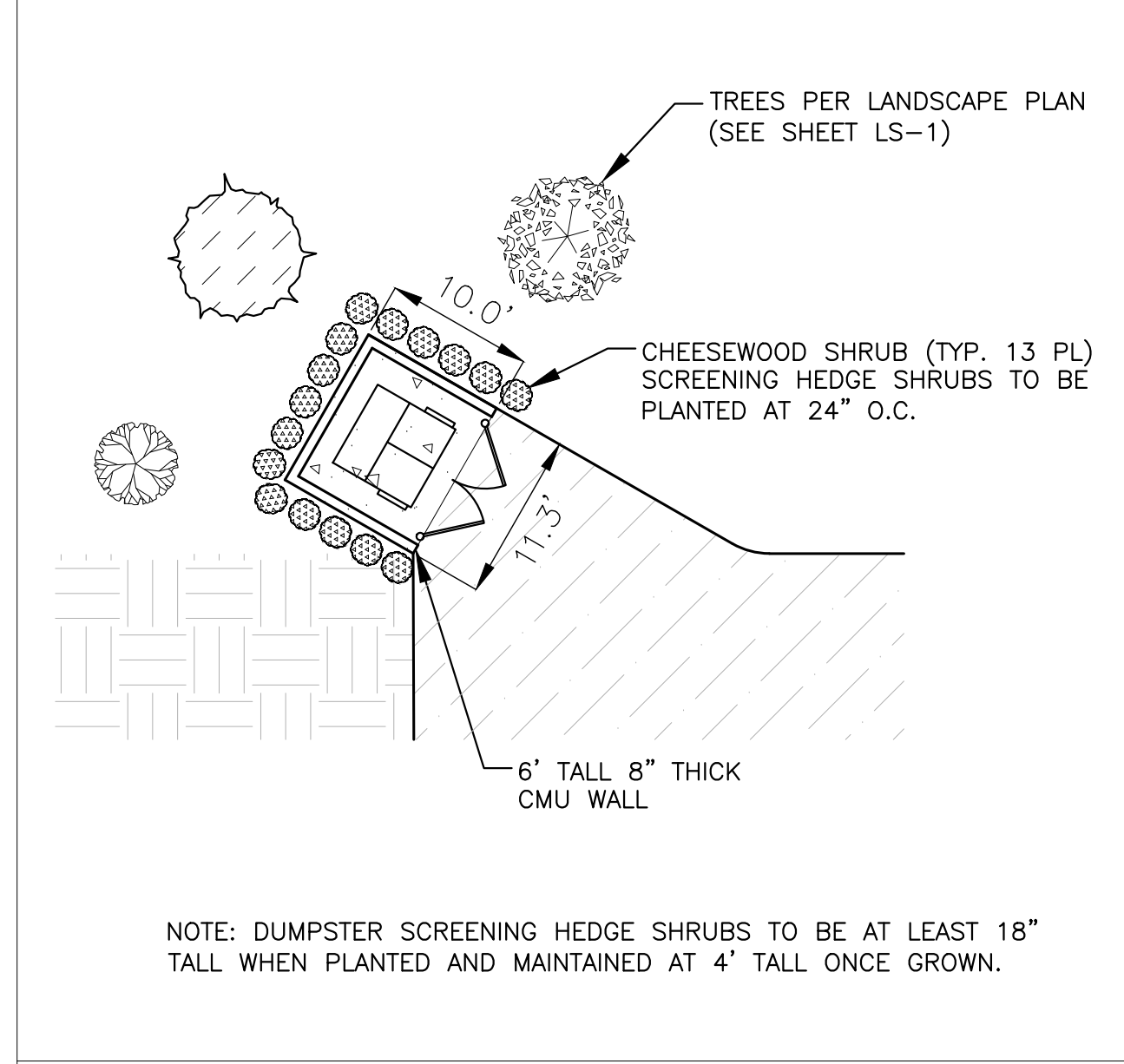
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 FLORIDA P.E. NO. 96177



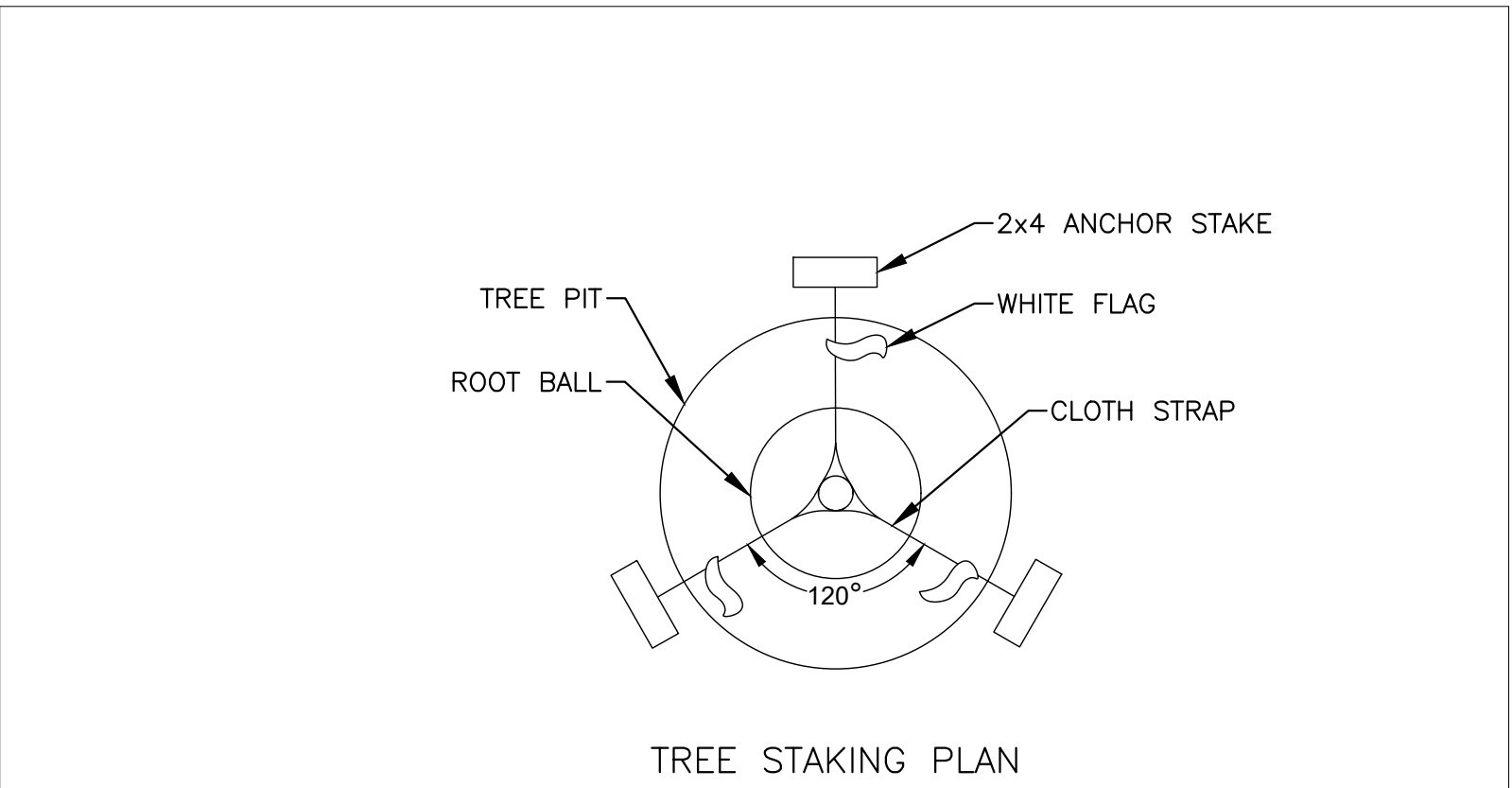
NOTE: SCREENING HEDGE SHRUBS TO BE AT LEAST 18\"/>

SANCTUARY DUMPSTER SCREENING DETAIL

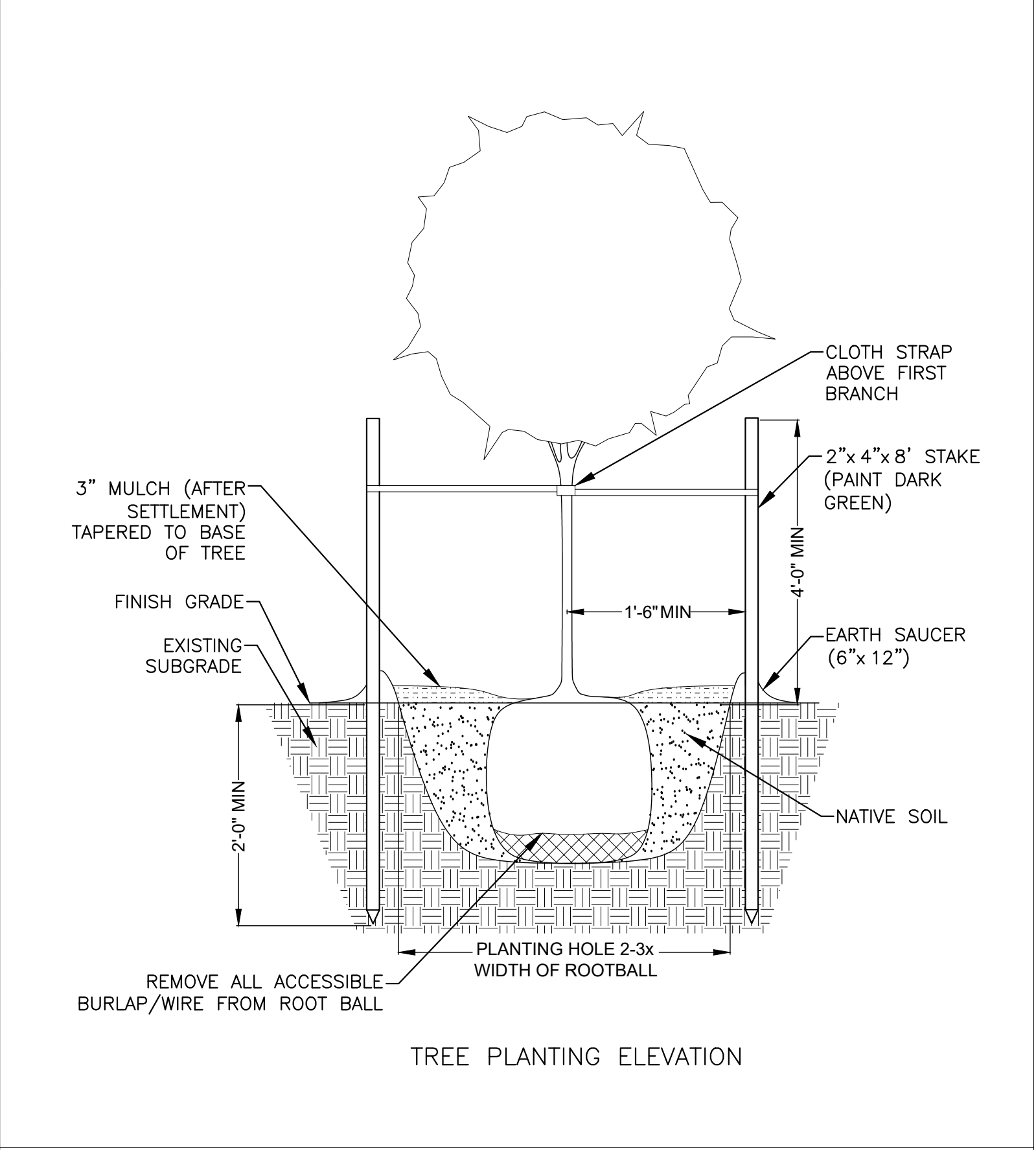


NOTE: DUMPSTER SCREENING HEDGE SHRUBS TO BE AT LEAST 18\"/>

RESIDENCE DUMPSTER SCREENING DETAIL



TREE STAKING PLAN



TREE PLANTING ELEVATION

TREE PLANTING DETAILS

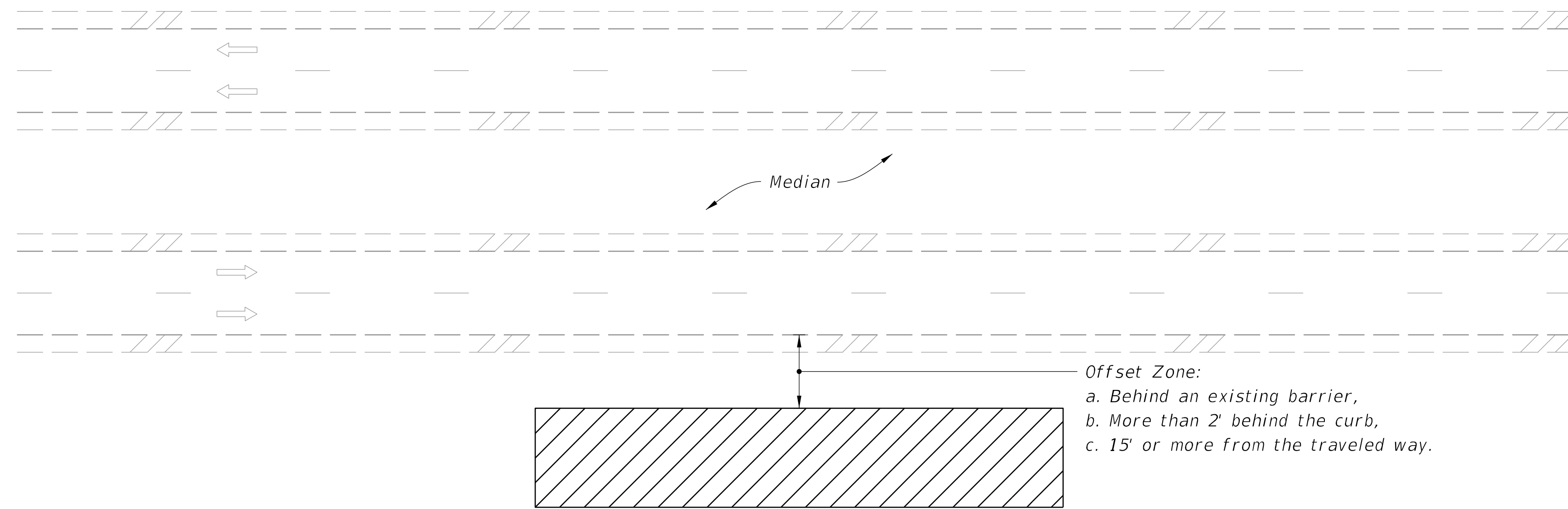
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LANDSCAPING
 DETAILS



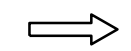
Offset Zone:
 a. Behind an existing barrier,
 b. More than 2' behind the curb,
 c. 15' or more from the traveled way.

=====**MULTILANE ROADWAY SHOWN, TWO-LANE ROADWAY SIMILAR**=====


NOTES:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work beyond the shoulder.
2. Use Index 102-602 when the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the Offset Zone in any one hour period.
3. Use Index 102-660 when Work Area encroaches a Sidewalk.

SYMBOLS

-  Work Area
-  Lane Identification + Direction of Traffic

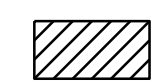



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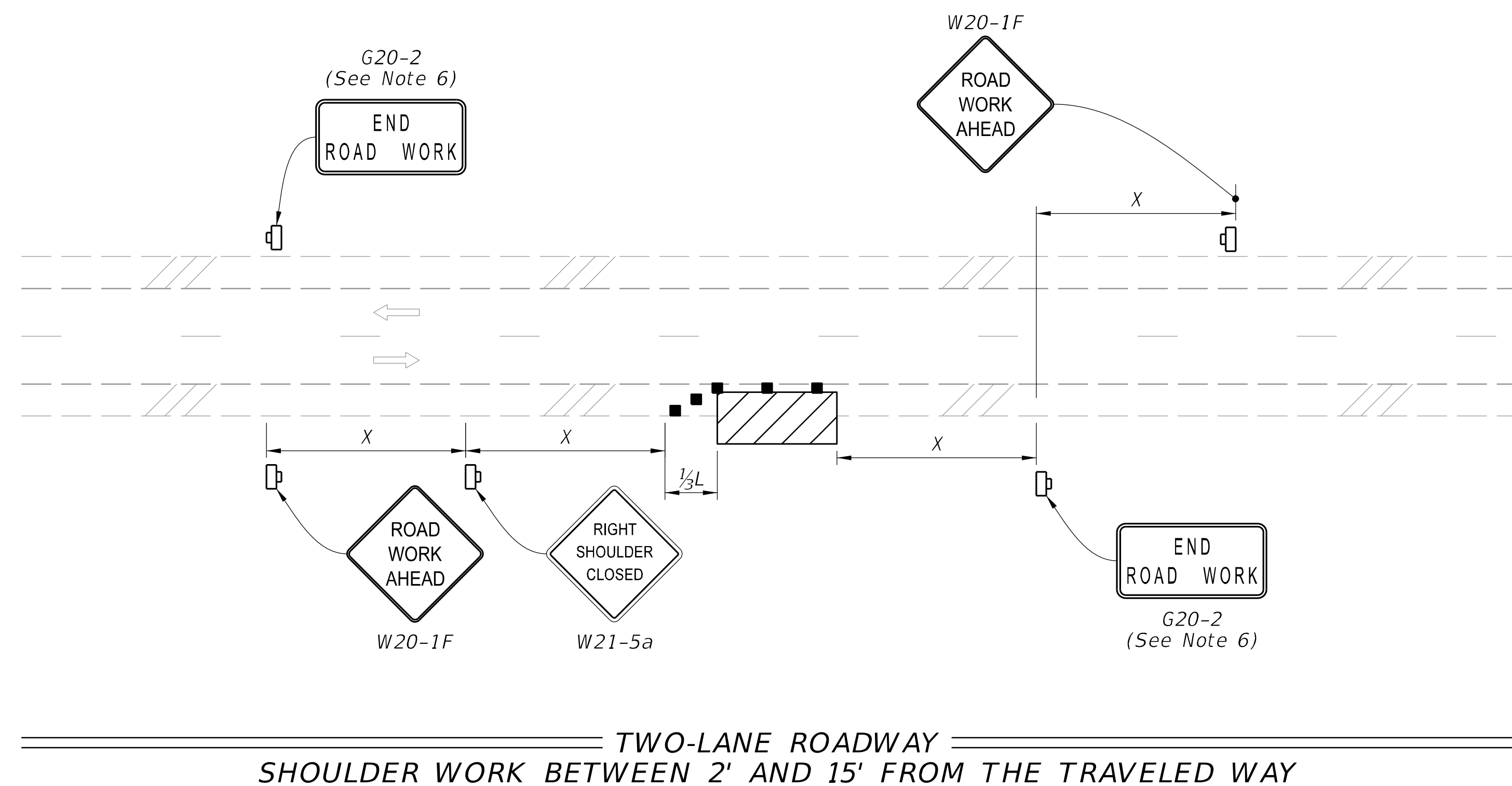
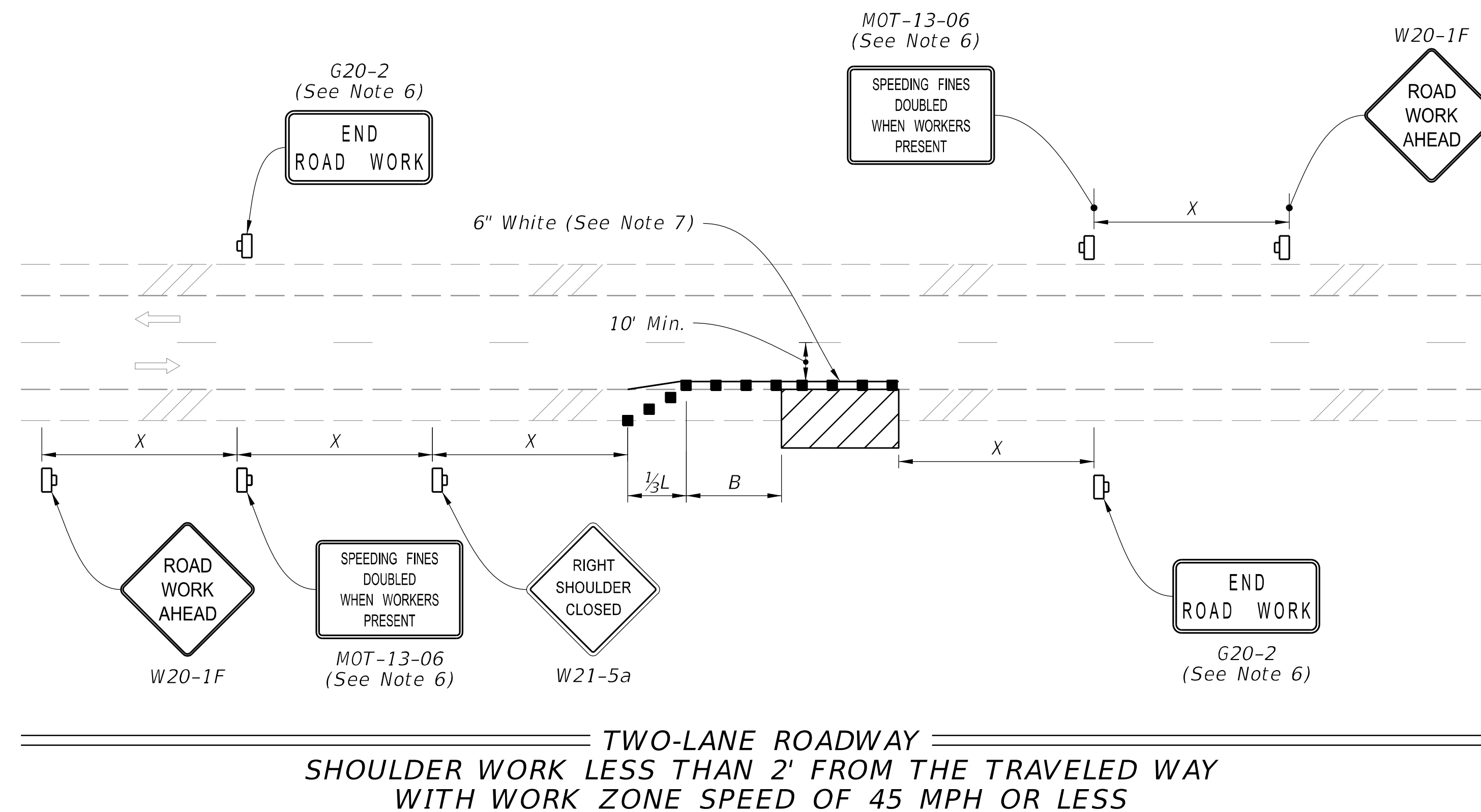
LAST REVISION 11/01/20	REVISION	DESCRIPTION:		FY 2021-22 STANDARD PLANS	TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER	INDEX 102-601	SHEET 1 of 1
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NOTES:


1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.
2. L = Taper Length
 X = Work Zone Sign Spacing
 B = Buffer Length
 See Index 102-600 for "L", "X", "B", and channelizing device spacing values.
3. For incidental work (e.g. mowing or litter removal), only the Road Work Ahead sign is required.
4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.
5. For work less than two feet from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.
6. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the temporary condition is in place for 24 hours or less.
7. Temporary pavement markings may be omitted when the work zone is in place for 3 days or less.
8. If the work encroaches on a marked bicycle lane or rideable shoulder, close the lane or shoulder in accordance with the Plans.
9. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median

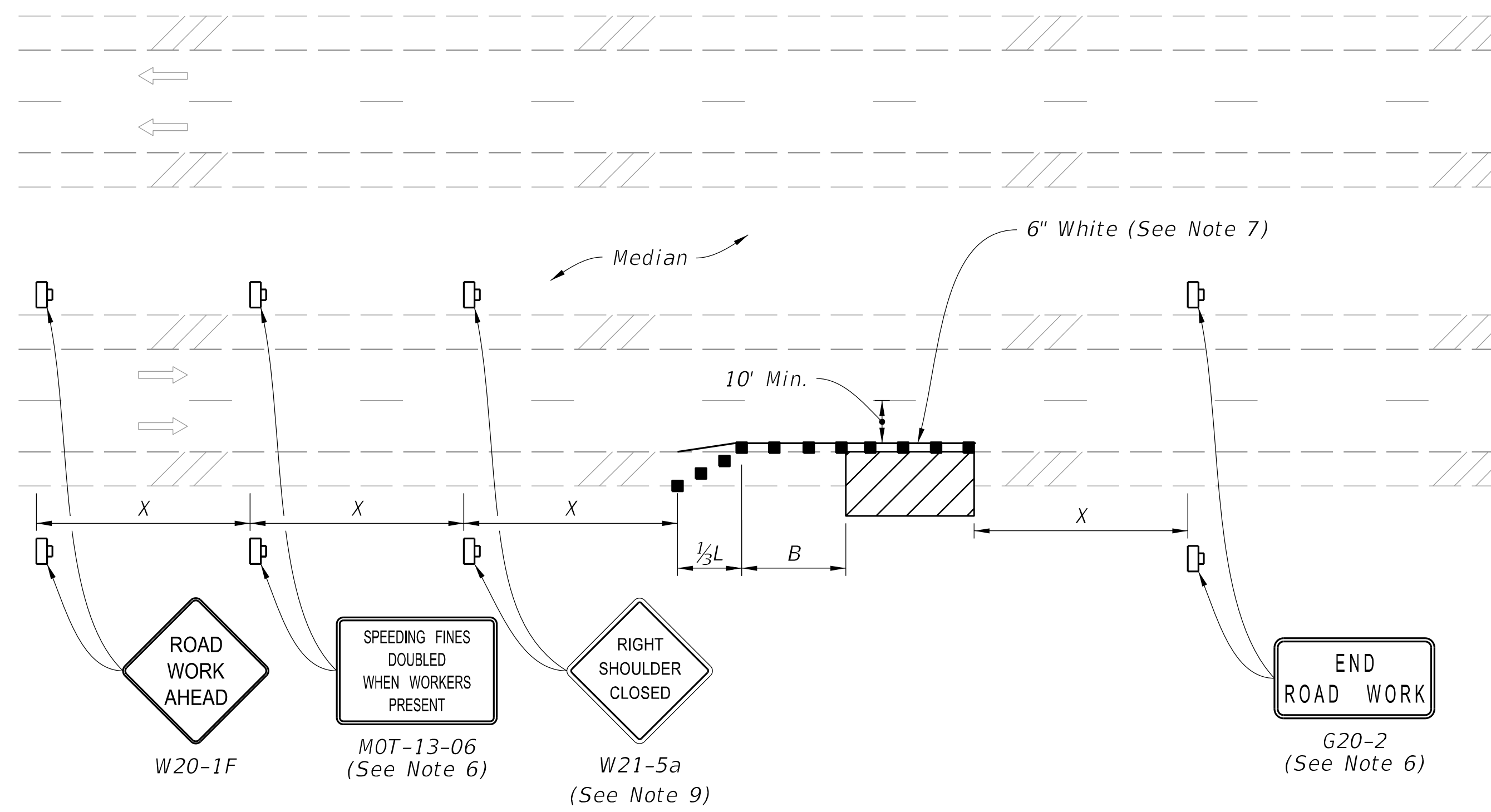
SYMBOLS:

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Work Zone Sign
-  Lane Identification and Direction of Traffic



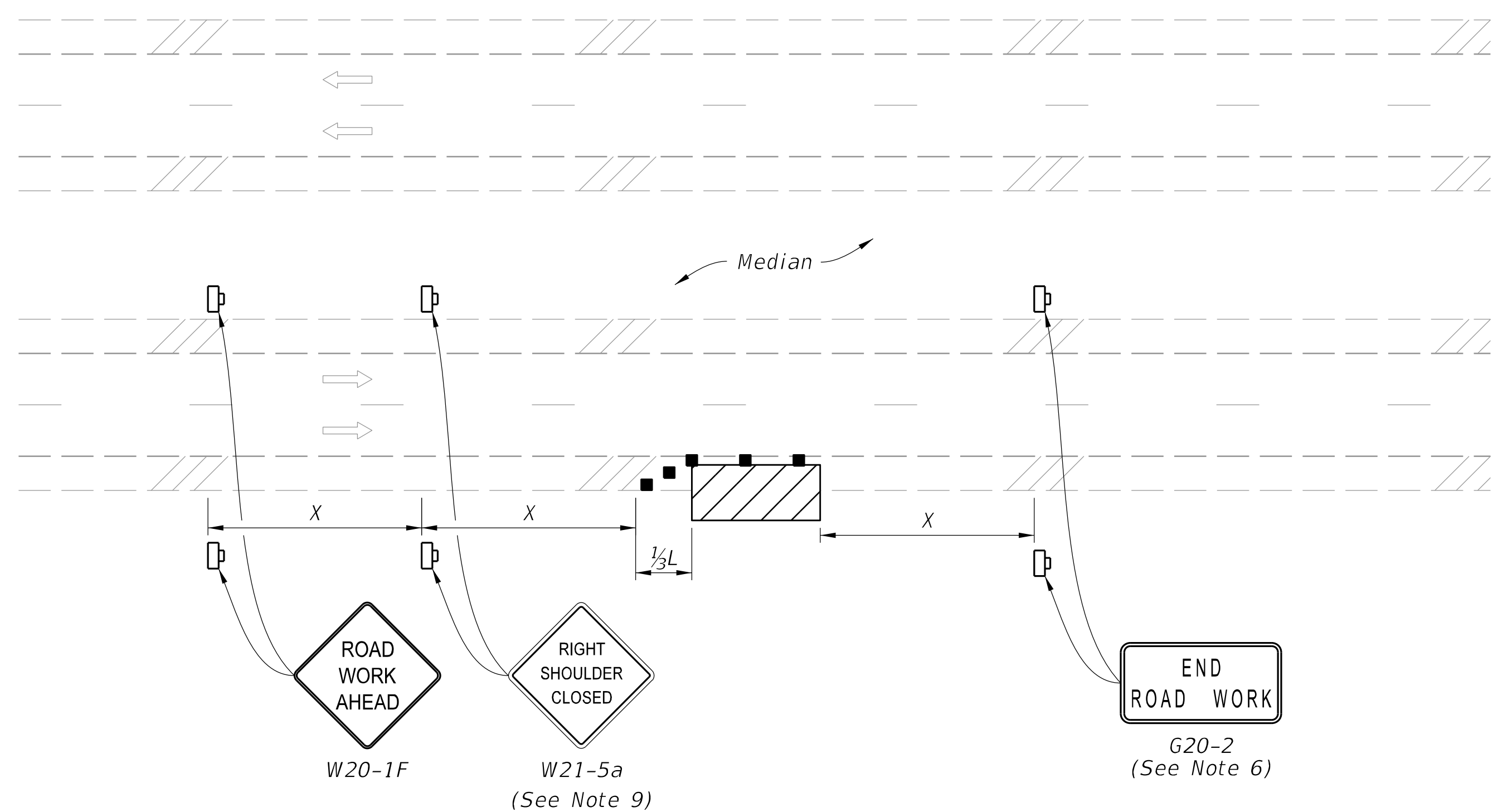
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LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2021-22 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 1 of 2
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- SYMBOLS:**
- Work Area
 - Channelizing Device (See Index 102-600)
 - Work Zone Sign
 - Lane Identification and Direction of Traffic

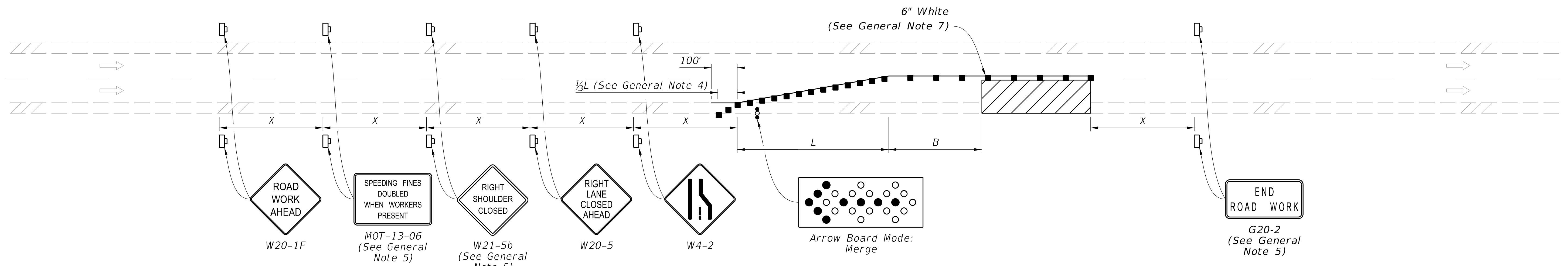
MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

10/9/2020 1:18:48 PM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:		FY 2021-22 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 2 of 2
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SINGLE LANE CLOSURE

SYMBOLS:

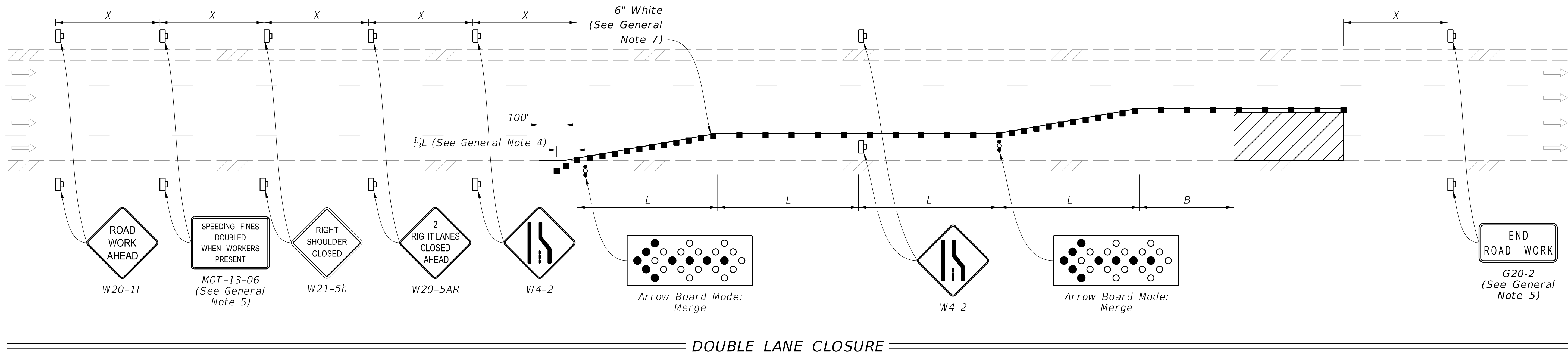
- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic
- Arrow Board

GENERAL NOTES:






1. L = Taper Length
B = Buffer Length
X = Work Zone Sign Distance
See Index 102-600 for "L", "B", "X", and channelizing device spacing values.
2. On undivided highways the median signs as shown are to be omitted.
3. On limited access facilities, omit "Shoulder Closed Ahead" signs (W21-5b) and associated work zone sign spacing distances.
4. If the paved shoulder is less than 4' in width, omit the taper and channelizing devices from the paved shoulder.
5. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2) and "Shoulder Closed Ahead" (W21-5b), along with associated work zone sign distances, may be omitted when the work zone will be in place for 24 hours or less. For Single Lane Closures, arrow boards and buffer (B) may also be omitted when the work zone will be in place for 60 minutes or less and the speed limit is 45 mph or less.
6. Use inverted plan of the illustrations for work on left side of roadways.
7. Temporary pavement markings may be omitted when the work zone is in place for 3 days or less.
8. If the work encroaches on a marked bicycle lane or rideable shoulder, close the lane or shoulder in accordance with the Plans.

10/12/2020 6:19:37 AM


LAST REVISION 11/01/20	REVISION	DESCRIPTION:		FY 2021-22 STANDARD PLANS	MULTILANE ROADWAY, LANE CLOSURES	INDEX 102-613	SHEET 1 of 5
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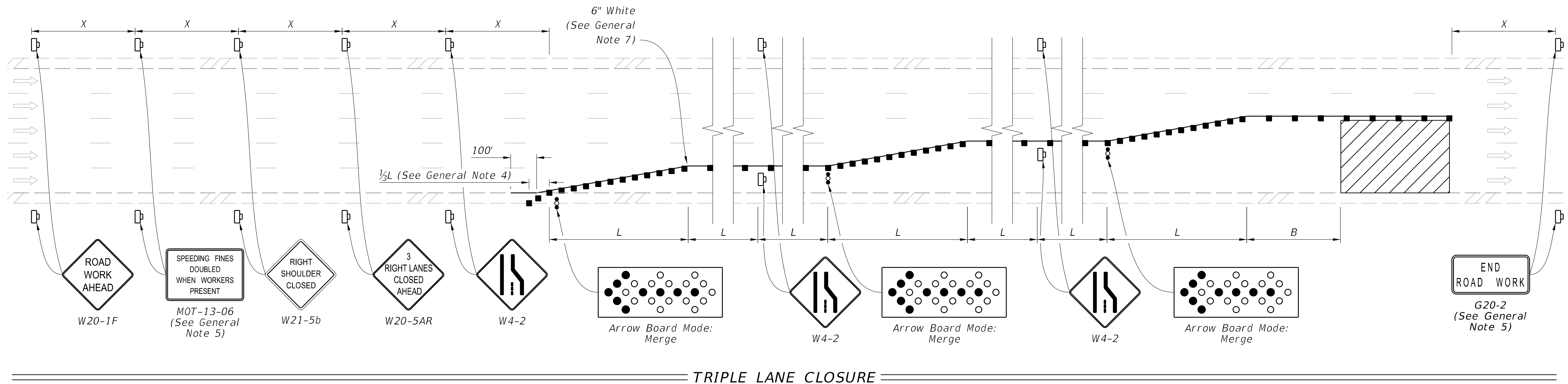


SYMBOLS:

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Work Zone Sign
-  Lane Identification and Direction of Traffic
-  Arrow Board






10/12/2020 6:19:42 AM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2021-22 STANDARD PLANS	MULTILANE ROADWAY, LANE CLOSURES	INDEX 102-613	SHEET 2 of 5
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TRIPLE LANE CLOSURE

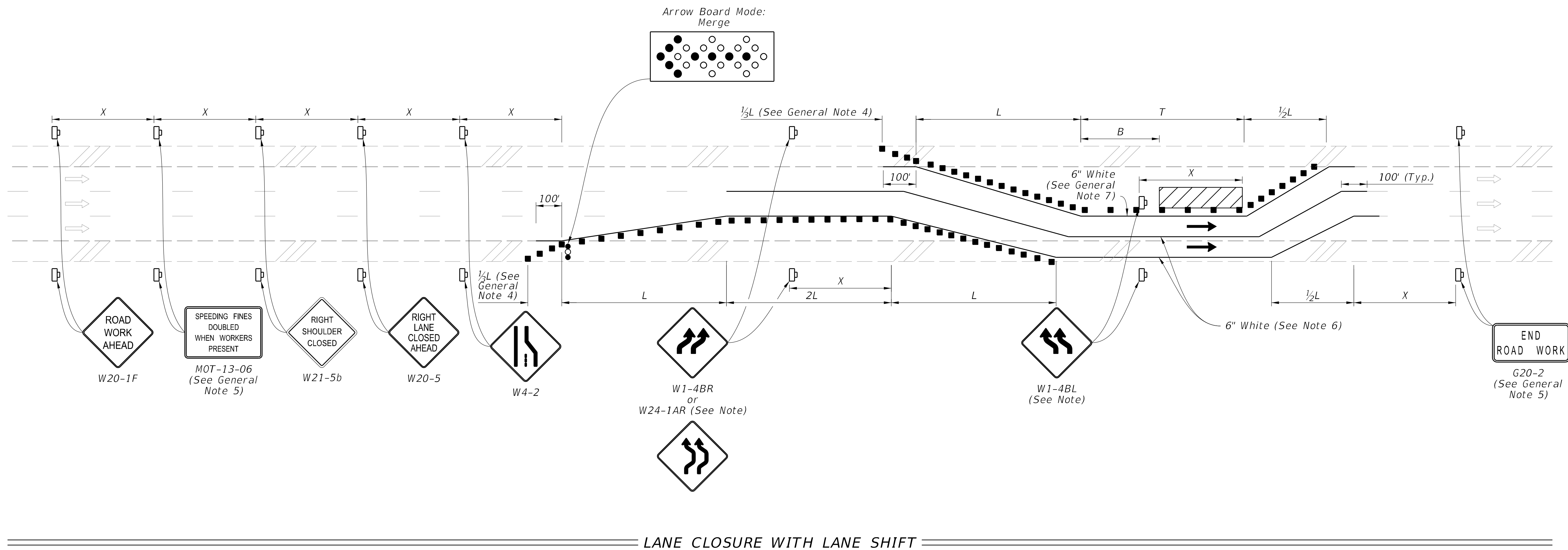
SYMBOLS:

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Work Zone Sign
-  Lane Identification and Direction of Traffic
-  Arrow Board

10/12/2020 6:19:47 AM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:		FY 2021-22 STANDARD PLANS	MULTILANE ROADWAY, LANE CLOSURES	INDEX 102-613	SHEET 3 of 5
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10/12/2020 6:19:52 AM



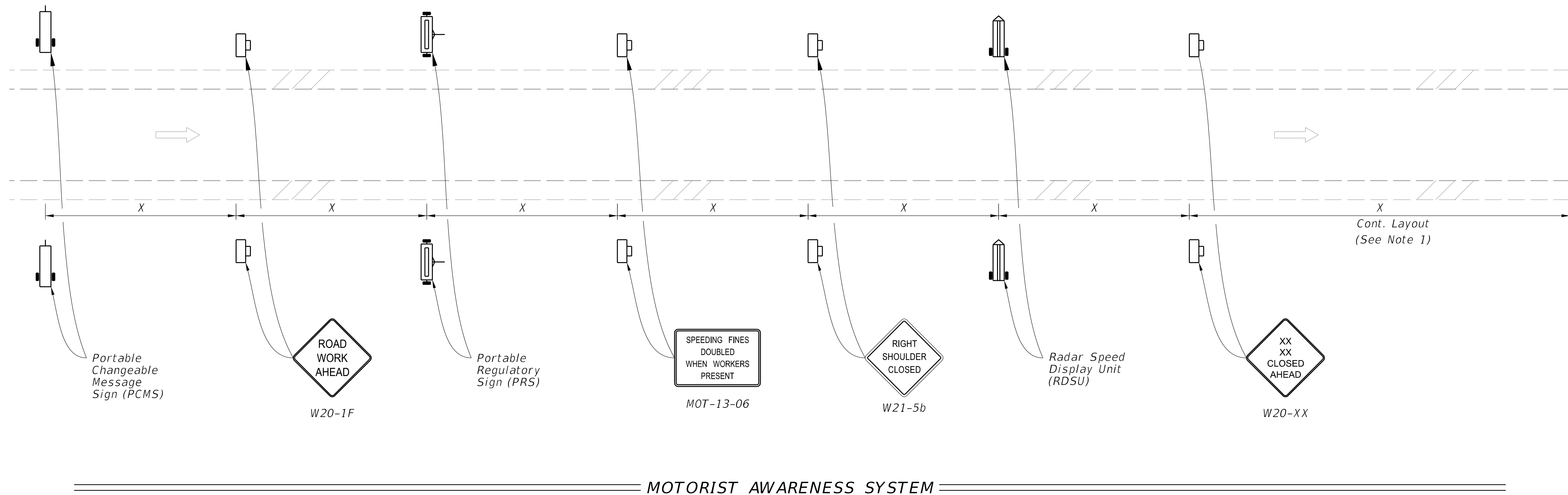
SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic
- Arrow Board

NOTE:

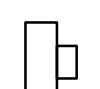

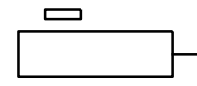
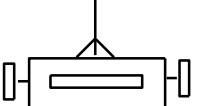
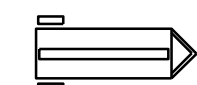
If the tangent distance "T" is less than 600', then use "Double Reverse Curve" signs (W24-1A) instead of the first pair of "Reverse Curve" signs (W1-4B) and omit the second pair of "Reverse Curve" signs.

LAST REVISION 11/01/20	REVISION	DESCRIPTION:		FY 2021-22 STANDARD PLANS	MULTILANE ROADWAY, LANE CLOSURES	INDEX 102-613	SHEET 4 of 5
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MOTORIST AWARENESS SYSTEM

SYMBOLS:

-  Work Zone Sign
-  Lane Identification and Direction of Traffic
-  (1) PCMS= Portable Changeable (Variable) Message Sign
-  (2) PRS= Portable Regulatory Sign-Speed Limit When Flashing
-  (2) RSDU= Radar Speed Display Unit


NOTES:

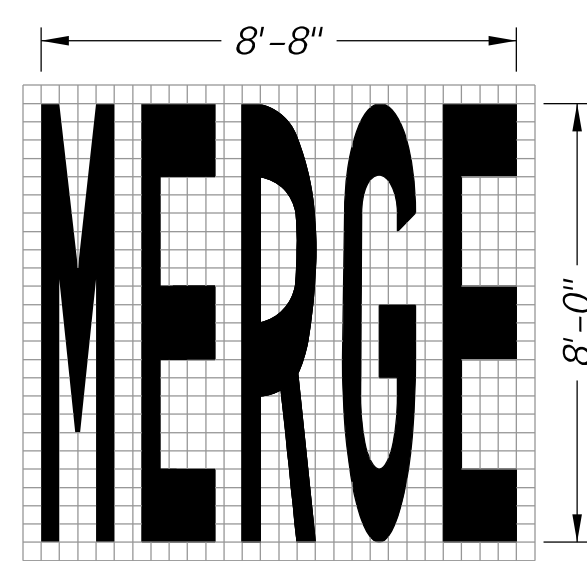
1. When called for in the Plans, use the Motorist Awareness System (MAS) in accordance with the Plans and this Index. When using this detail, locate the MAS devices (i.e., PCMS, PRS, and RDSU) within the advance warning signs as shown. Continue with the remainder of the work zone signs and devices in accordance with the Plans or Standard Plans after the appropriate "Lane Closed Ahead" (W20-XX) sign.
2. For a posted speed of 65 mph or greater, display speed with a ten mph reduction. For a posted speed of 60 mph, display a reduced speed of 55 mph. For areas outside of the lane closure, use the posted speed as the work zone speed.
3. Omit the PCMS in the median for roadways with three lanes or less in the same direction of traffic.

TYPICAL PCMS DISPLAY:

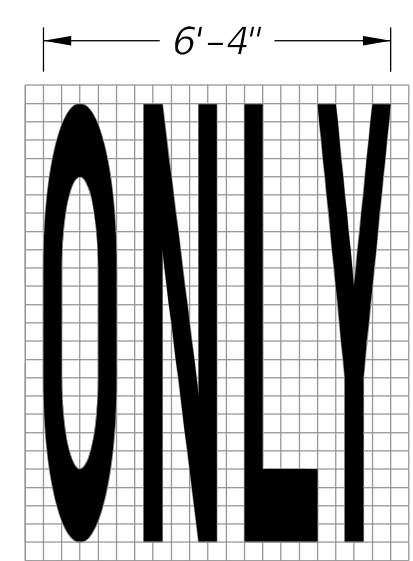
- With speed reduction:
 Message 1: WORKERS PRESENT AHEAD
 Message 2: SPEED REDUCED NEXT XXMI
- Without speed reduction:
 Message 1: WORKERS PRESENT AHEAD
 Message 2: NEXT XX MILES

10/12/2020 6:19:58 AM

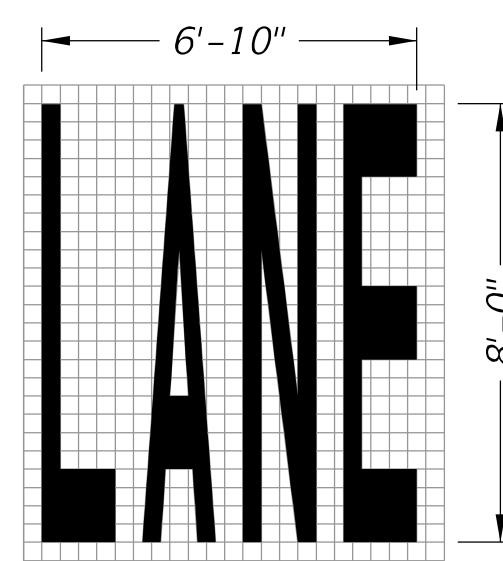
LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2021-22 STANDARD PLANS	MULTILANE ROADWAY, LANE CLOSURES	INDEX 102-613	SHEET 5 of 5
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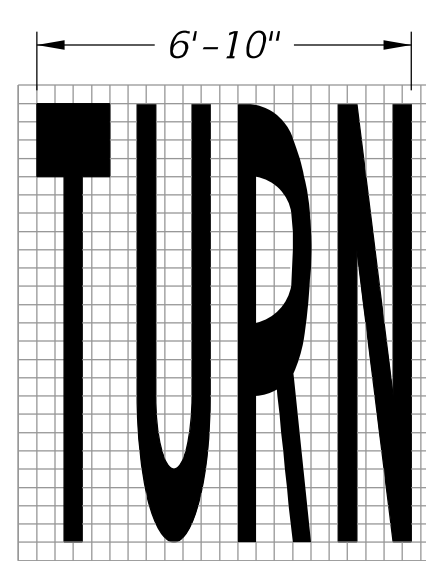
34 S.F.



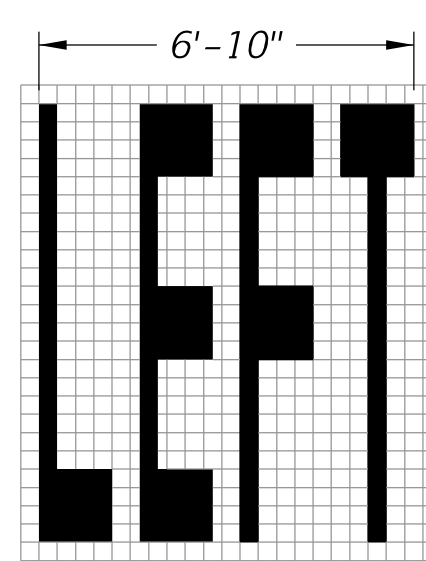
22 S.F.



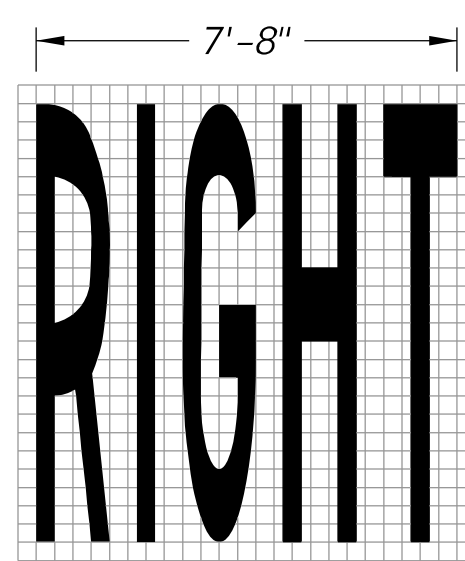
23 S.F.



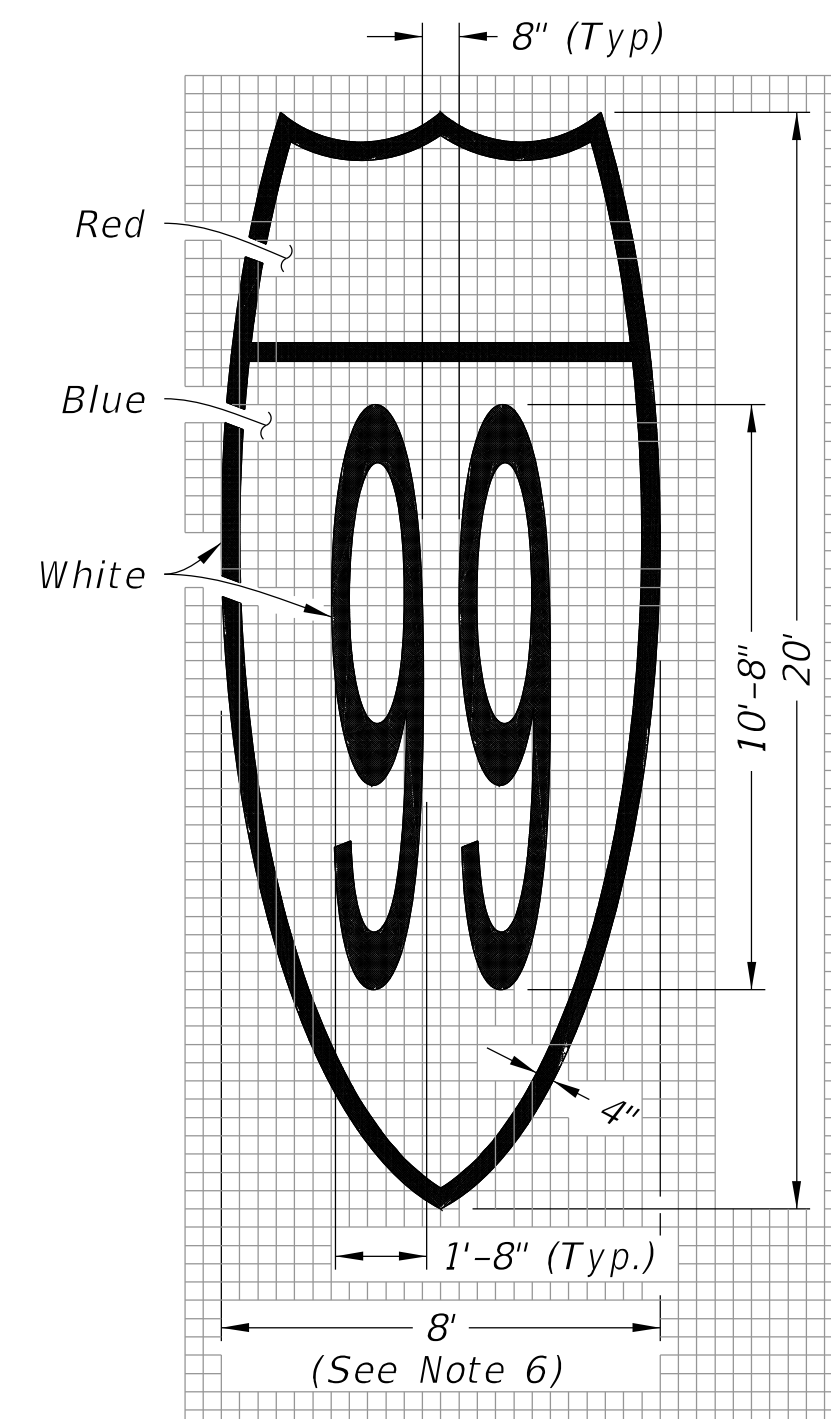
24 S.F.



20 S.F.

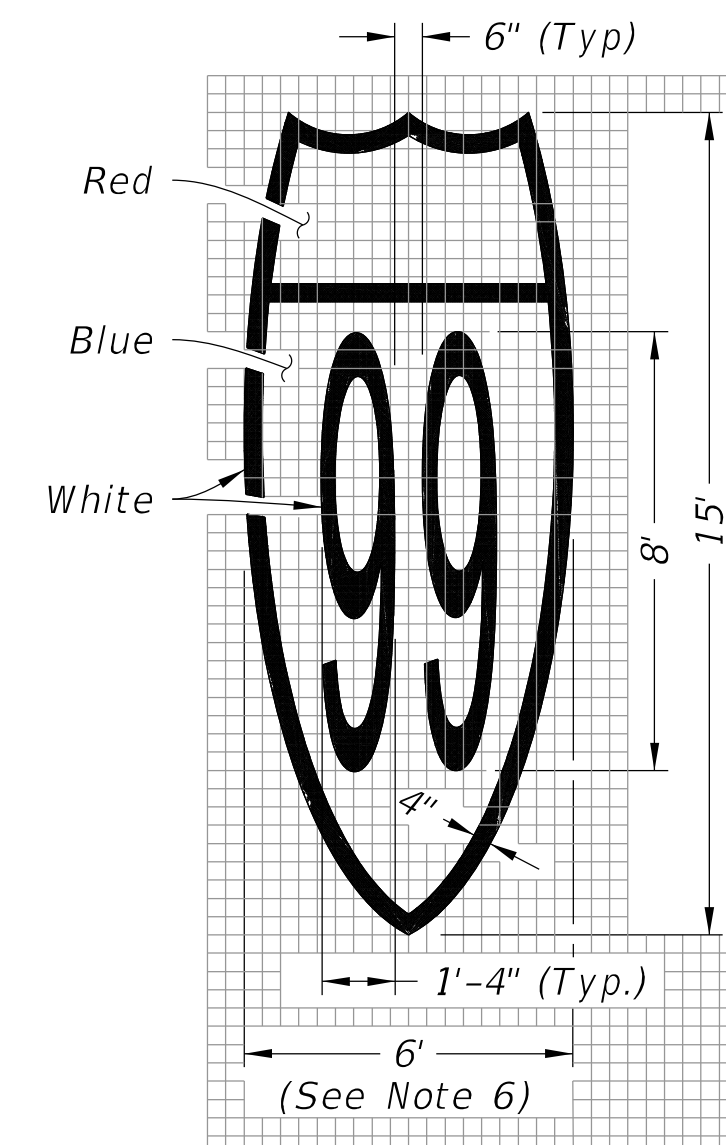


26 S.F.



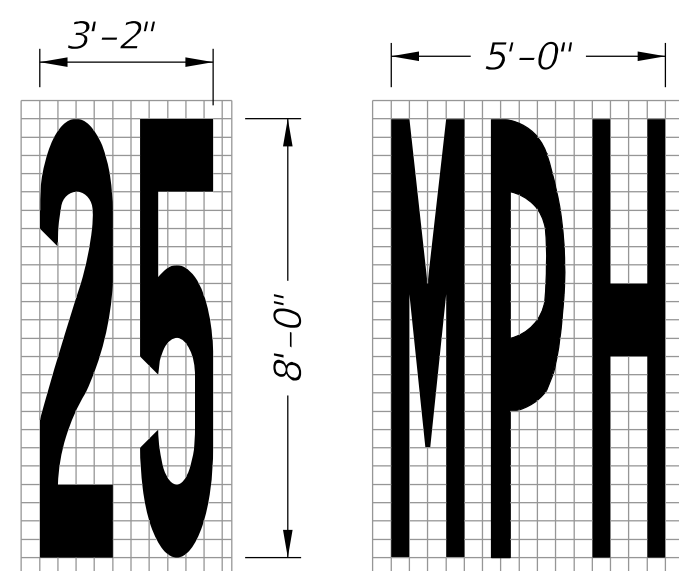
Route Shield for Limited Access Roadways (Interstate Route Shield Shown; U.S. and State Route Shield Similar)

128 S.F.



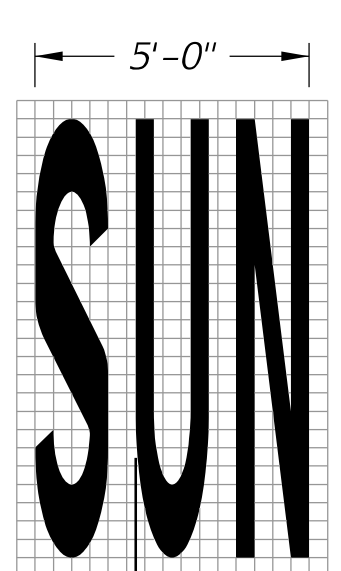
Route Shield for Arterials and Collectors (Interstate Route Shield Shown; U.S. and State Route Shield Similar)

72 S.F.

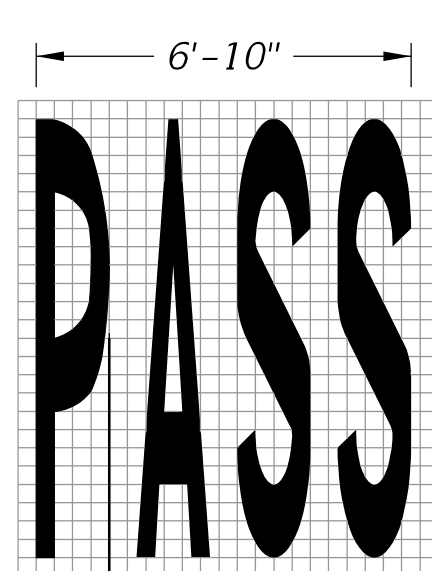


13 S.F.

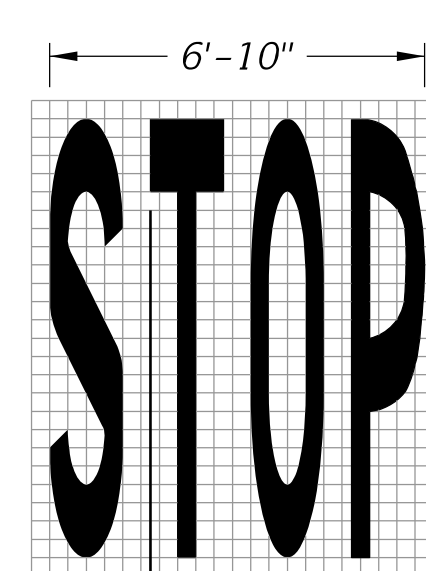
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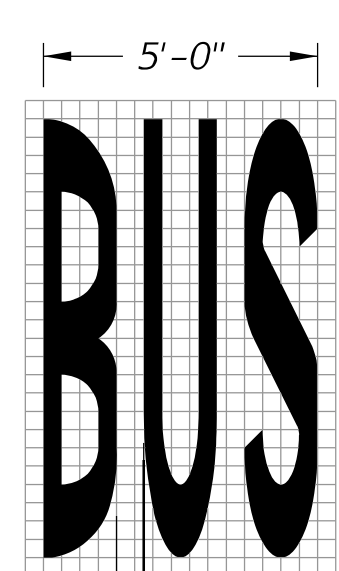
20 S.F.



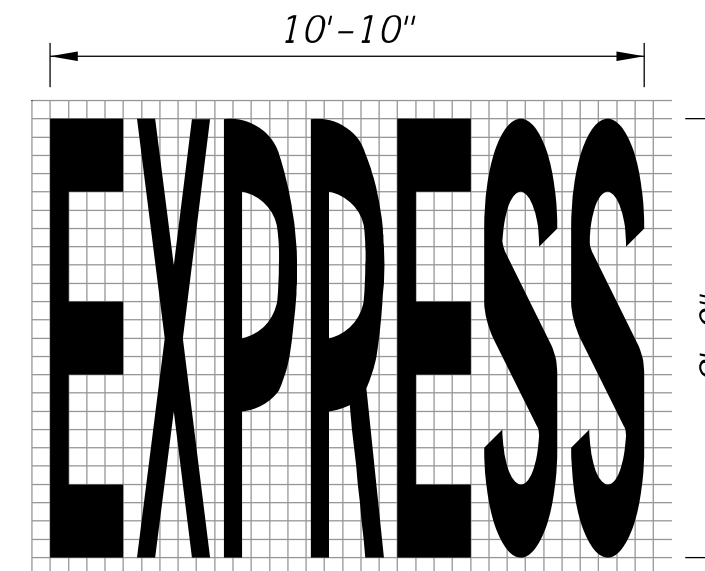
23 S.F.



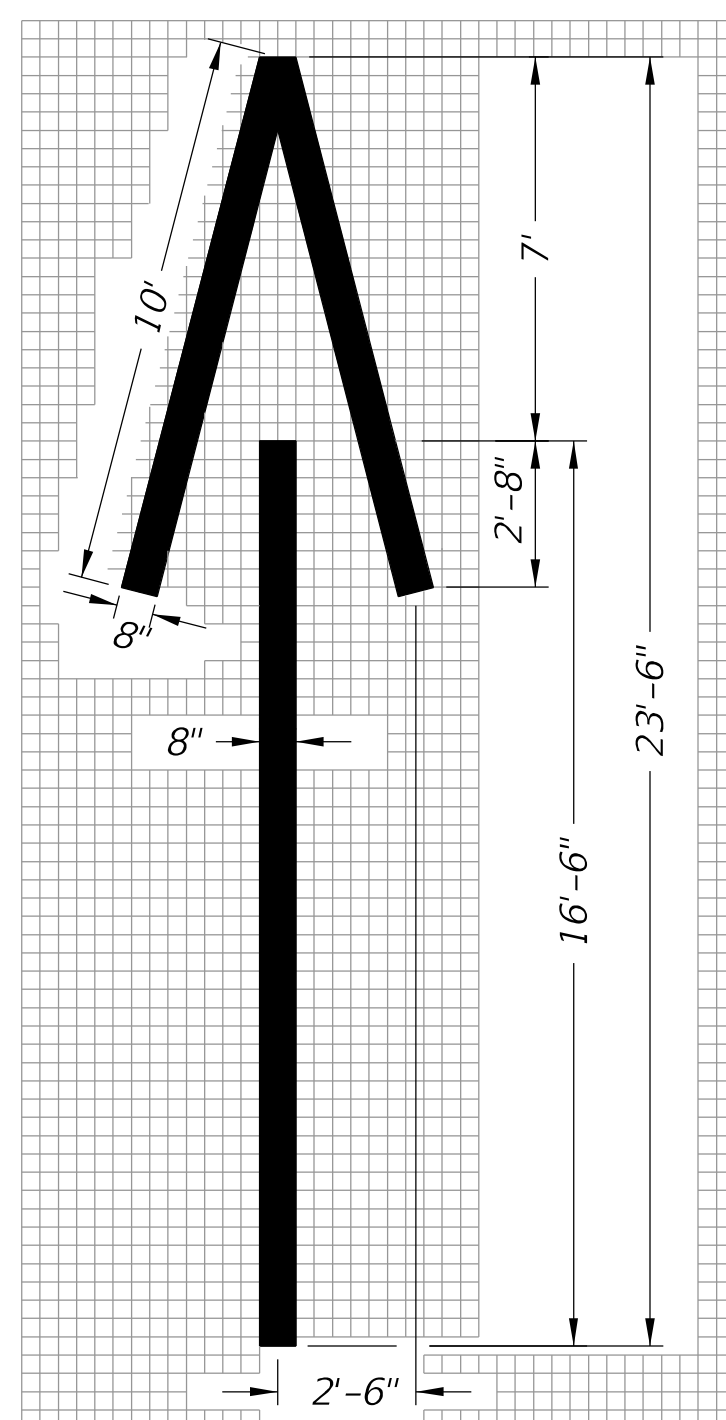
22 S.F.



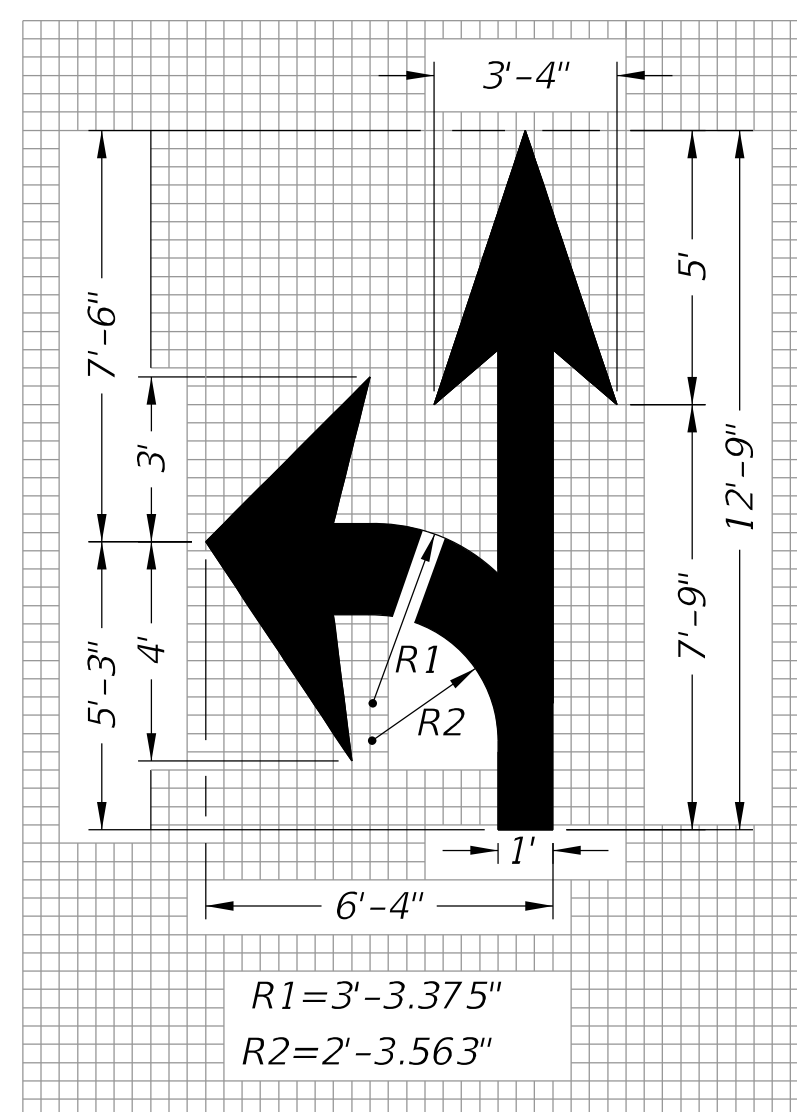
20 S.F.



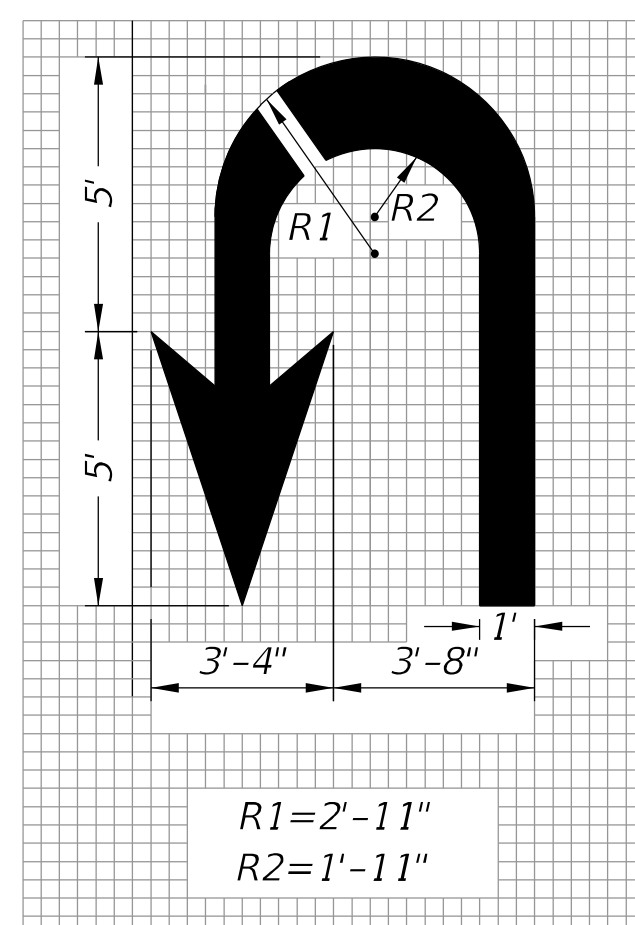
43 S.F.



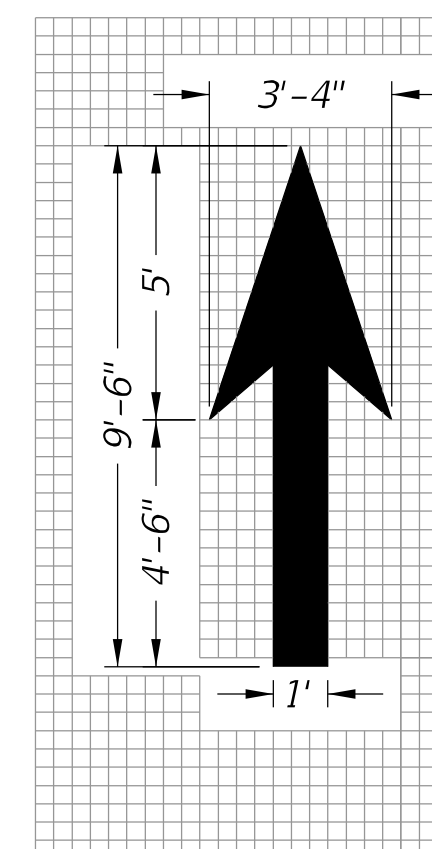
Wrong-Way Arrow
24 S.F.



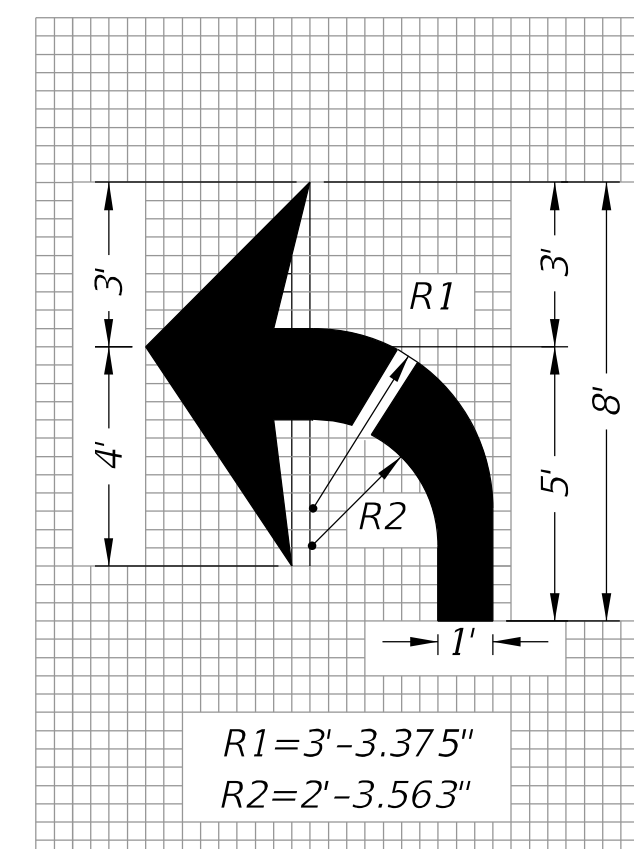
Turn and Through Lane-Use Arrow
29 S.F.



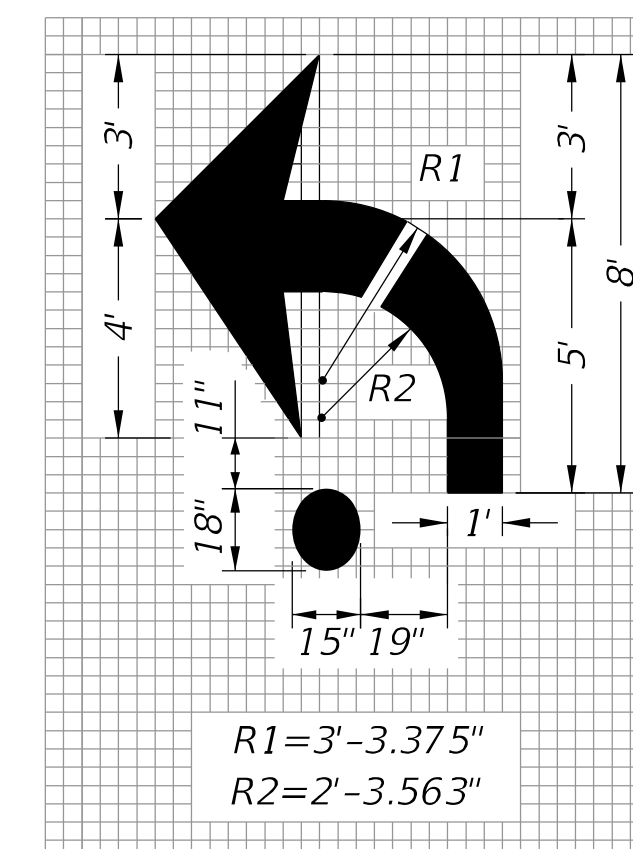
U Turn Lane-Use Arrow
27 S.F.



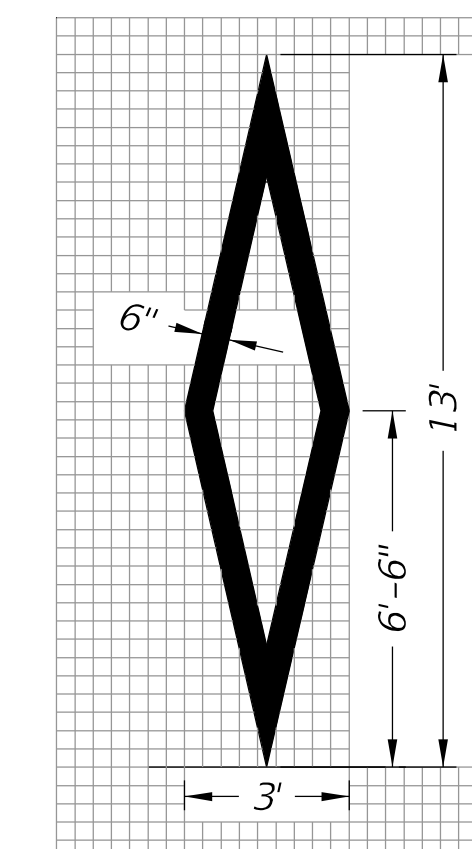
Through Lane-Use Arrow
12 S.F.



Turn Lane-Use Arrow (Left Turn Shown - Right Turn Similar)
17 S.F.



Roundabout Approach Arrow
19 S.F.



Preferential Lane Symbol
11 S.F.

NOTES FOR PAVEMENT MESSAGES:

- When an arrow or another pavement message is used with a pavement message, maintain a minimum distance of "S" between items, measured from the base of each item. See the Pavement Message Spacing Table for "S" value.
- Place all pavement messages 25' back from the stop line.
- Dimensions are within 1" ±.
- All grids are 4" x 4".
- All pavement messages must be white except route shields.
- Increase width of route shield for routes with three digits.

PAVEMENT MESSAGE SPACING TABLE	
Posted Speed (mph)	Distance "S" (feet)
≤ 25	40
30 - 35	56
40 - 45	72
≥ 50	88

PAVEMENT MESSAGE AND ARROW DETAILS

GENERAL NOTE:

- See Index 509-070 for pavement markings at railroad crossings.

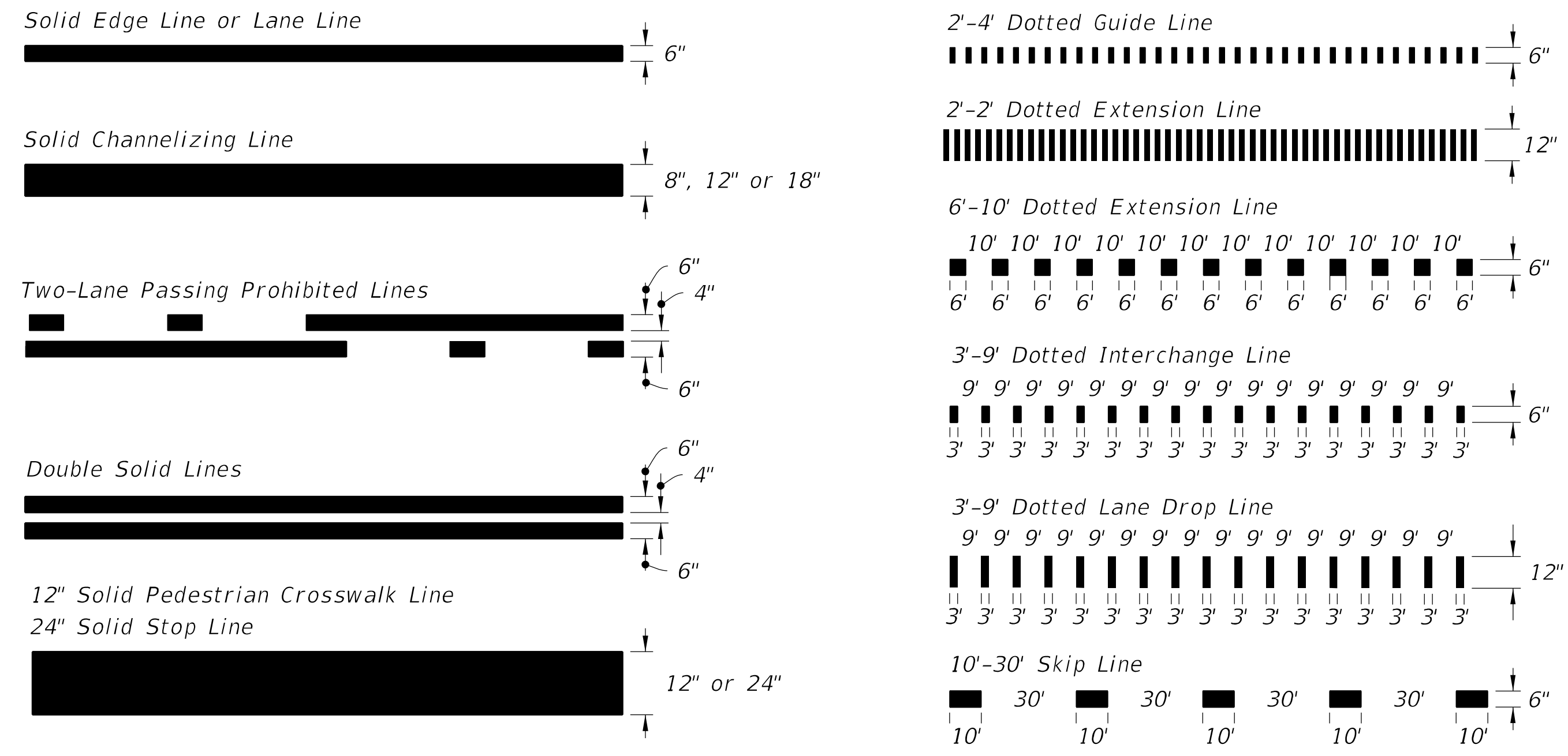
12:06:14 PM
2/5/2021

LAST REVISION 02/05/21	DESCRIPTION: Added railroad pavement marking details.
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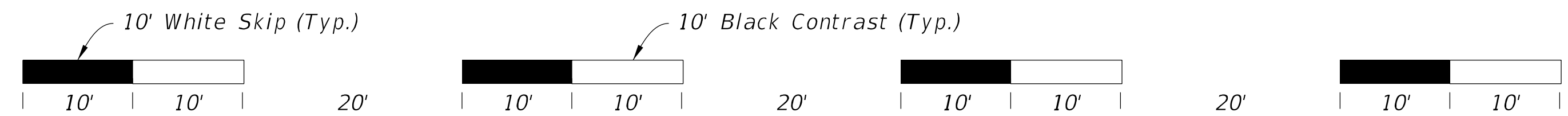
FDOT
FY 2020-21
STANDARD PLANS

PAVEMENT MARKINGS

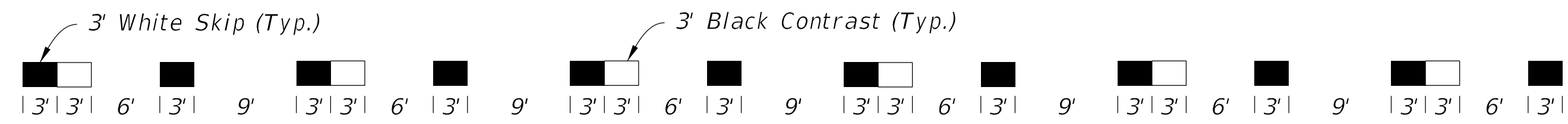
INDEX 711-001-1	SHEET 1 of 14
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PAVEMENT MARKING LINES

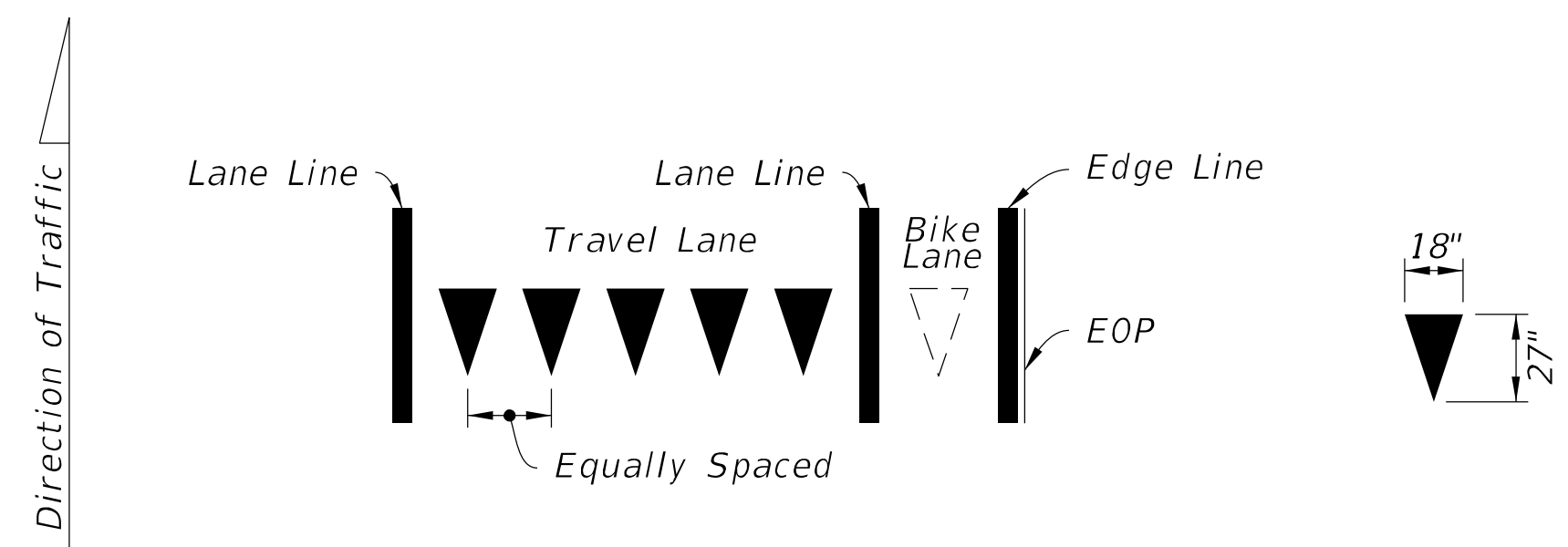


10'-30' SKIP LINE WITH SHADOW MARKINGS



DOTTED LINE WITH ALTERNATING SHADOW MARKINGS

(3'-9" Dotted Line Shown, Other Dotted Lines Similar)



Yield Lines consist of five - 18" X 27" white triangles which face traffic. Equally space triangles within traffic lane. When a bike lane is present, add one additional triangle in the center of the bike lane.

YIELD LINES

2/5/2021 12:06:17 PM

LAST REVISION 02/05/21

DESCRIPTION: Added railroad pavement marking details.

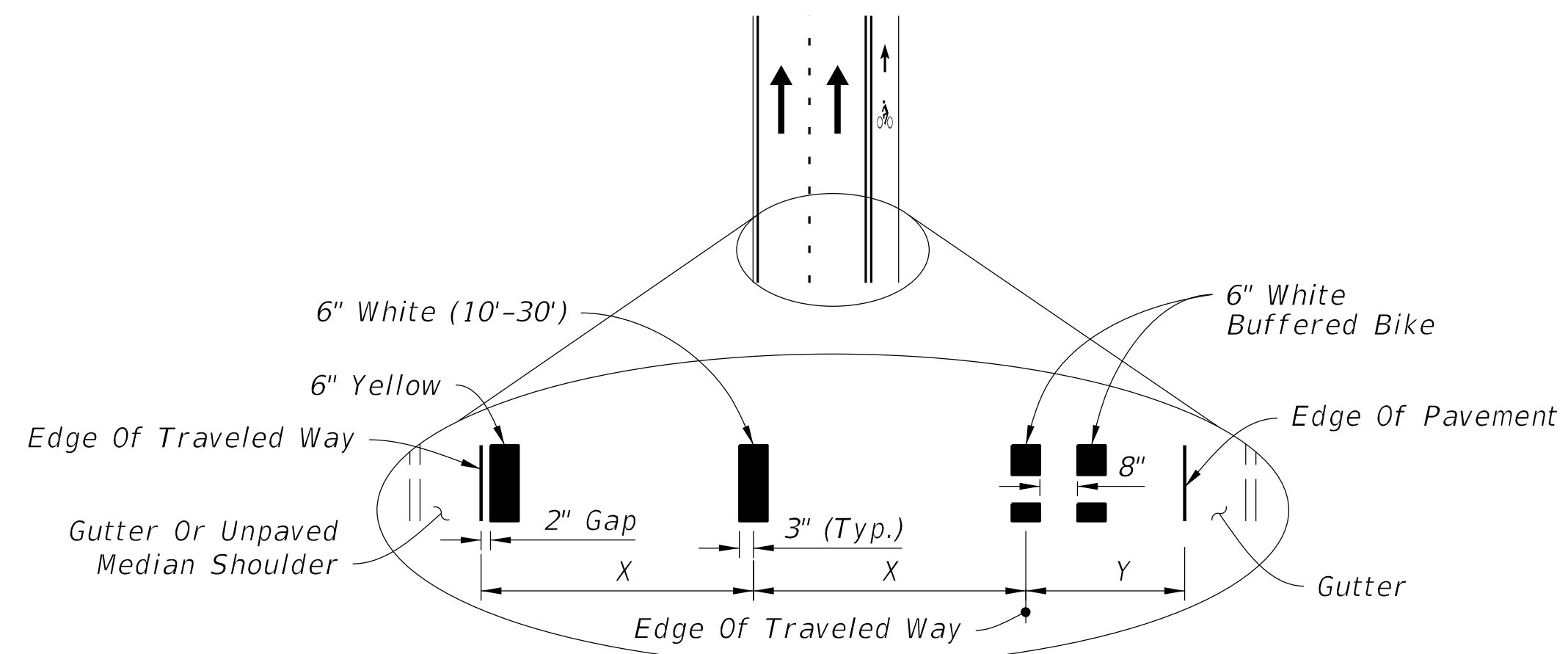


FY 2020-21 STANDARD PLANS

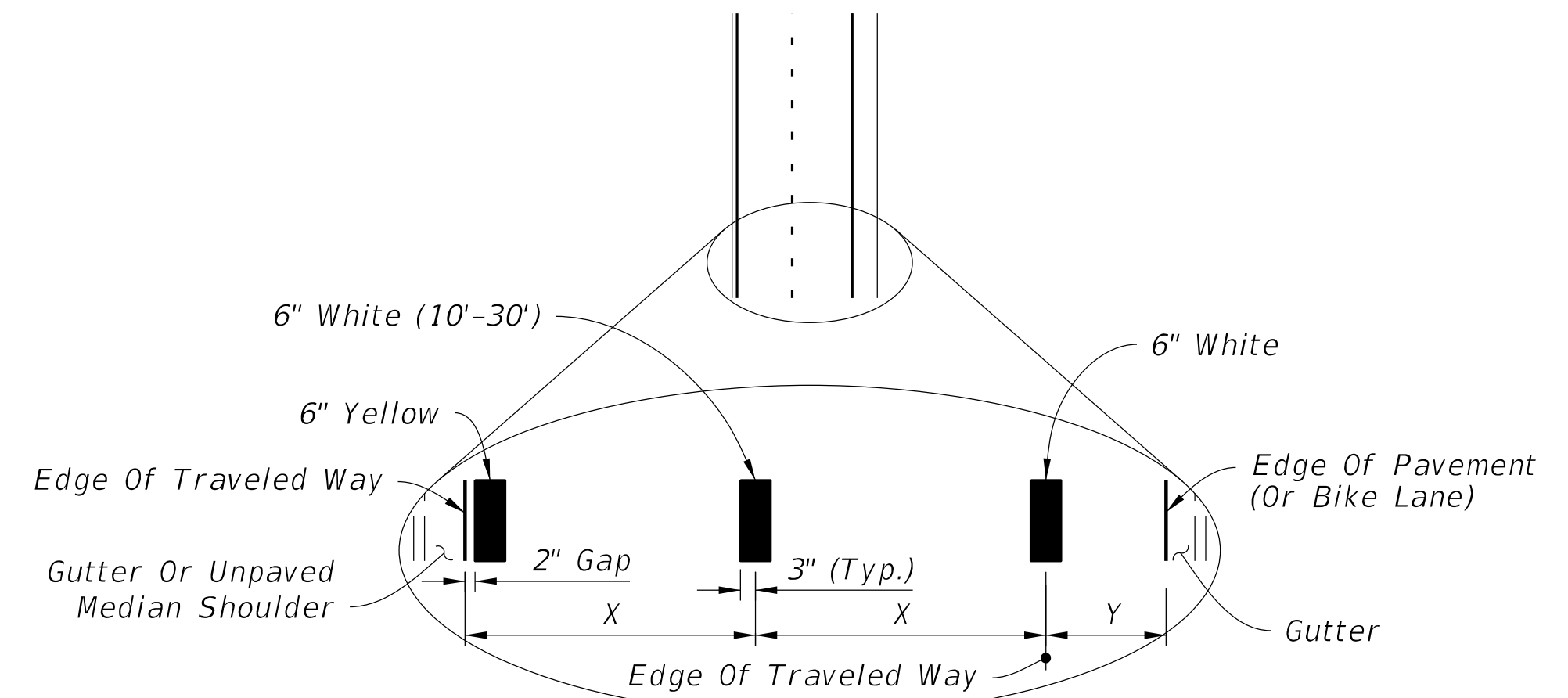
PAVEMENT MARKINGS

INDEX 711-001-1

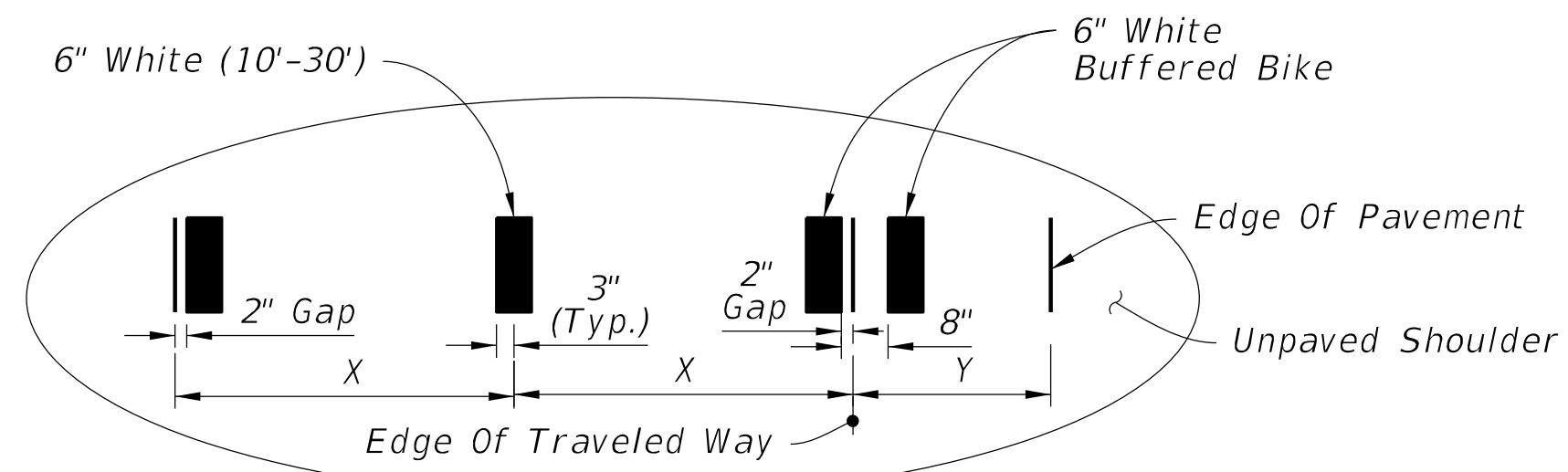
SHEET 2 of 14



CURB AND GUTTER

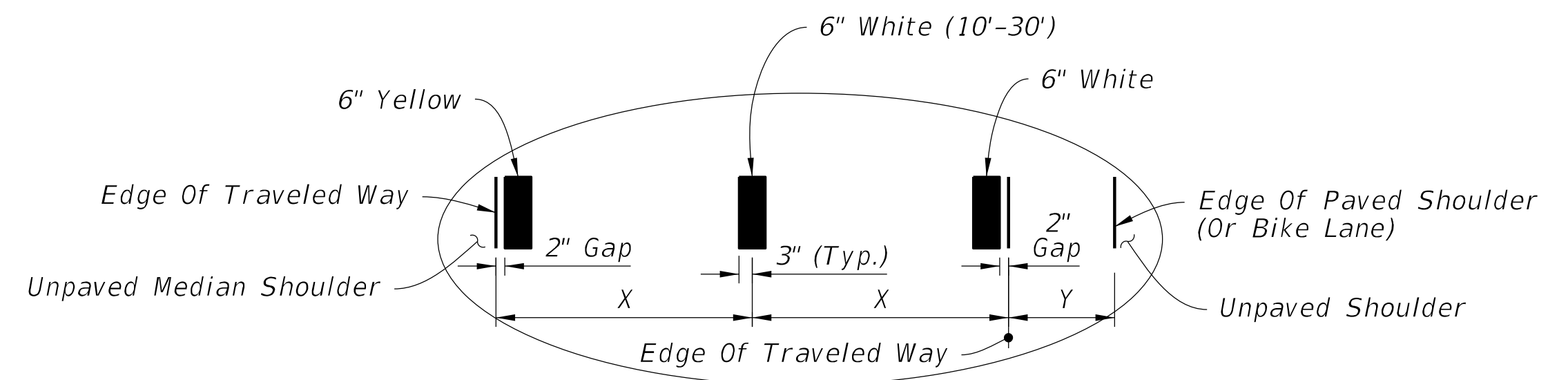


CURB AND GUTTER



FLUSH SHOULDER

X = LANE WIDTH (FT.)
Y = BUFFERED BIKE LANE WIDTH (FT.)

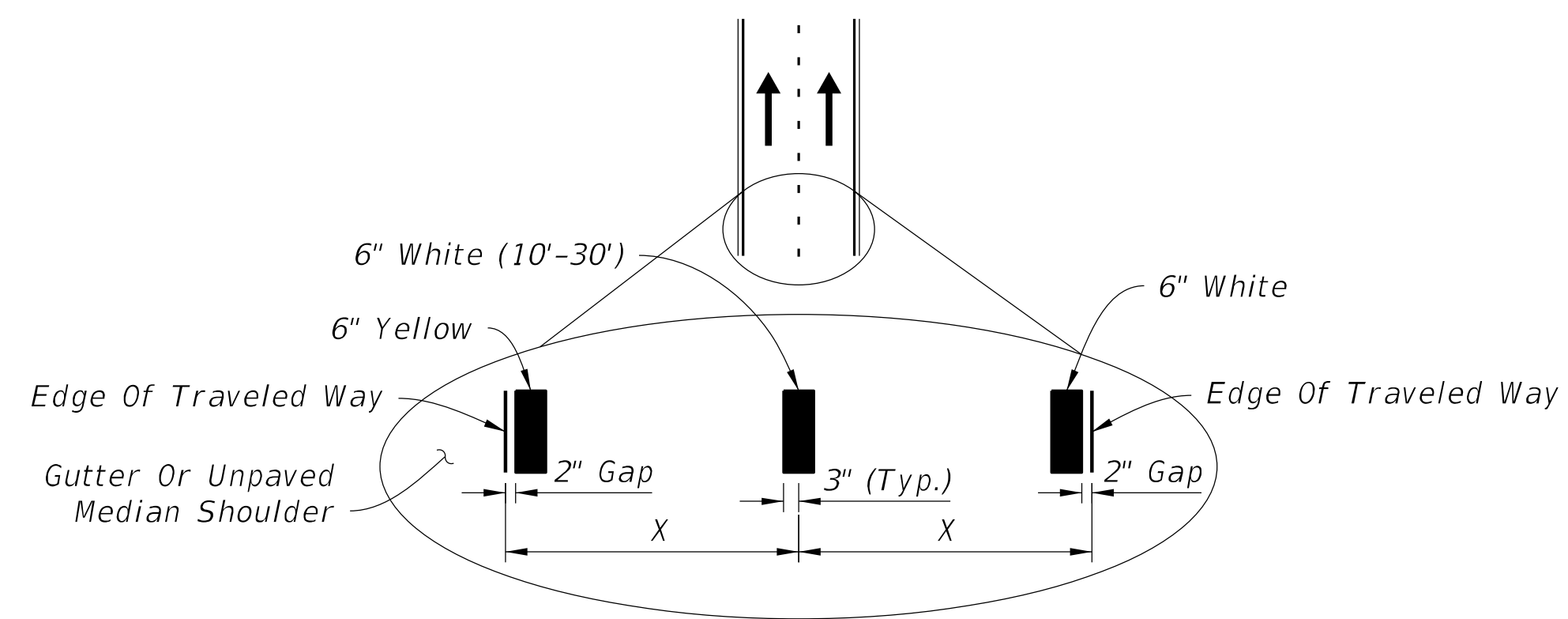


FLUSH SHOULDER

X = LANE WIDTH (FT.)
Y = PAVED SHOULDER / BIKE LANE

=====**STRIPING FOR BUFFERED BIKE LANE**=====

=====**STRIPING WITH SHOULDER OR NON-BUFFERED BIKE LANE**=====



X = LANE WIDTH (FT.)


=====**STRIPING WITH NO SHOULDER OR BIKE LANE**=====

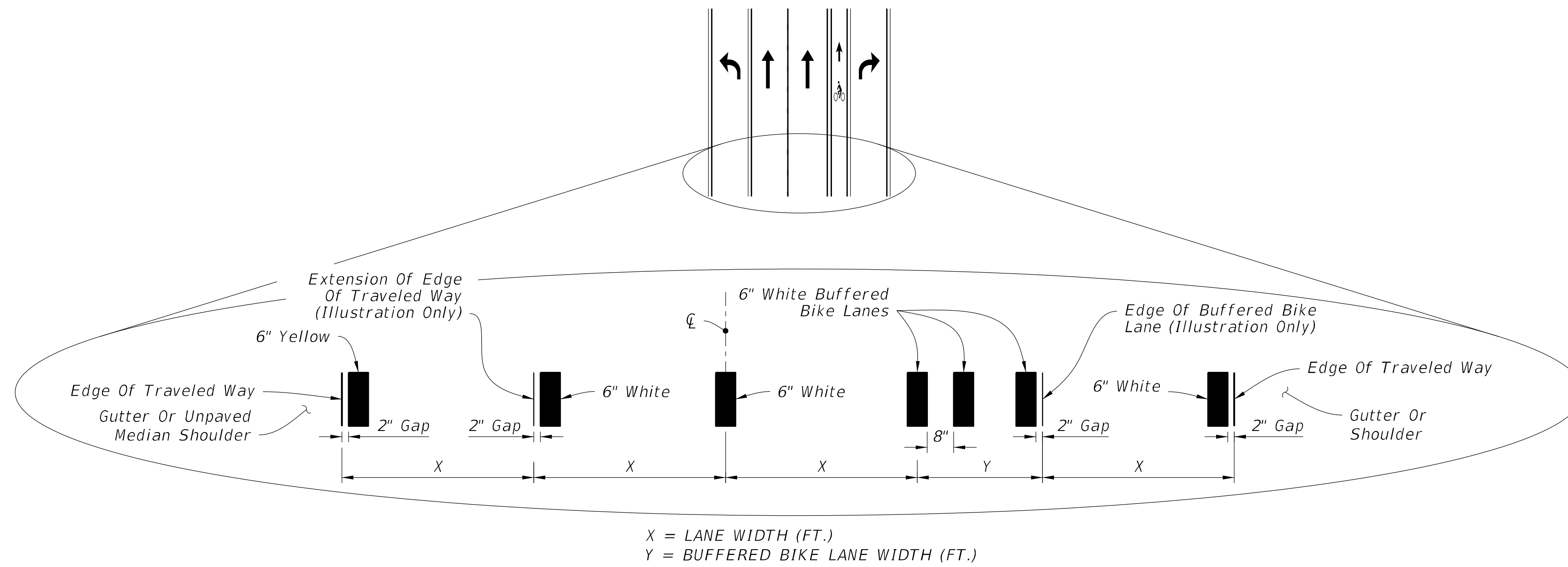
NOTES:

1. Lane widths (X) may not be same for each lane in the section.
2. For placement of RPMs, see Index 706-001.

PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

2/5/2021 12:06:18 PM

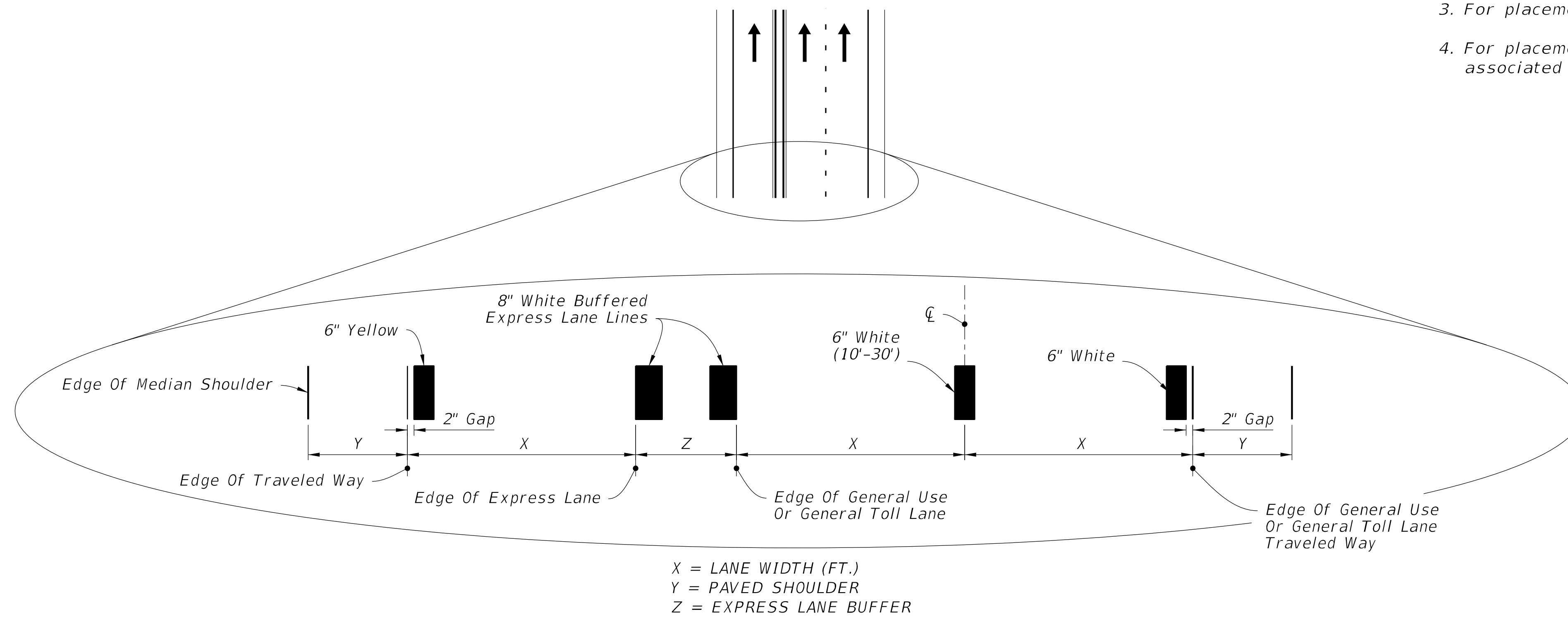
LAST REVISION 02/05/21	REVISION DESCRIPTION: Added railroad pavement marking details.	 FY 2020-21 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001-1	SHEET 3 of 14
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INTERSECTION APPROACH STRIPING WITH TURN LANES AND BUFFERED BIKE LANE KEY HOLE

NOTES:

1. Lane widths (X) may not be same for each lane in the section.
3. For placement of RPMs, see Index 706-001.
4. For placement of Express Lane markers and associated RPMs, see the Plans.

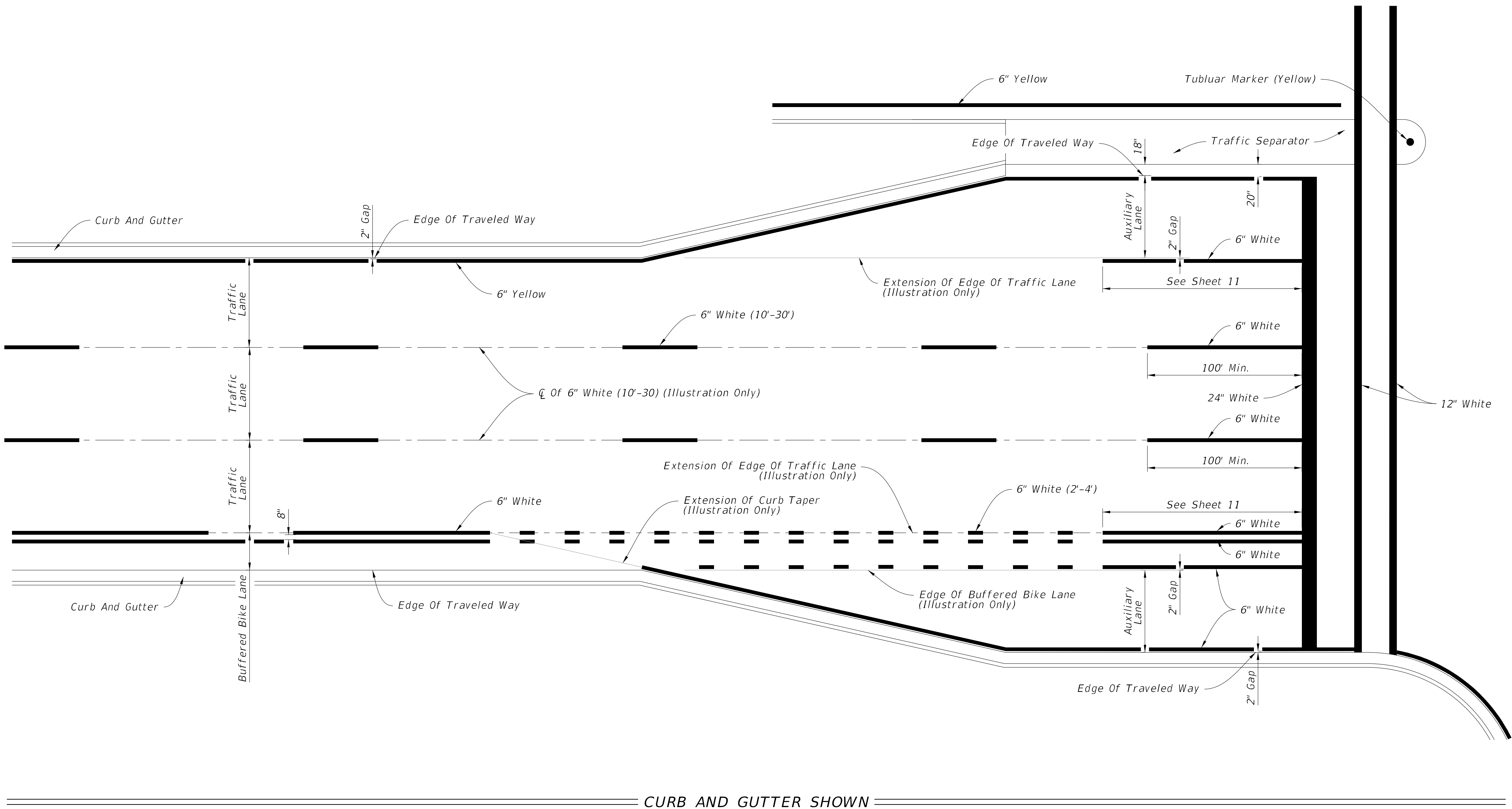


BUFFERED EXPRESS LANE STRIPING

PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS


12:06:20 PM 2/5/2021

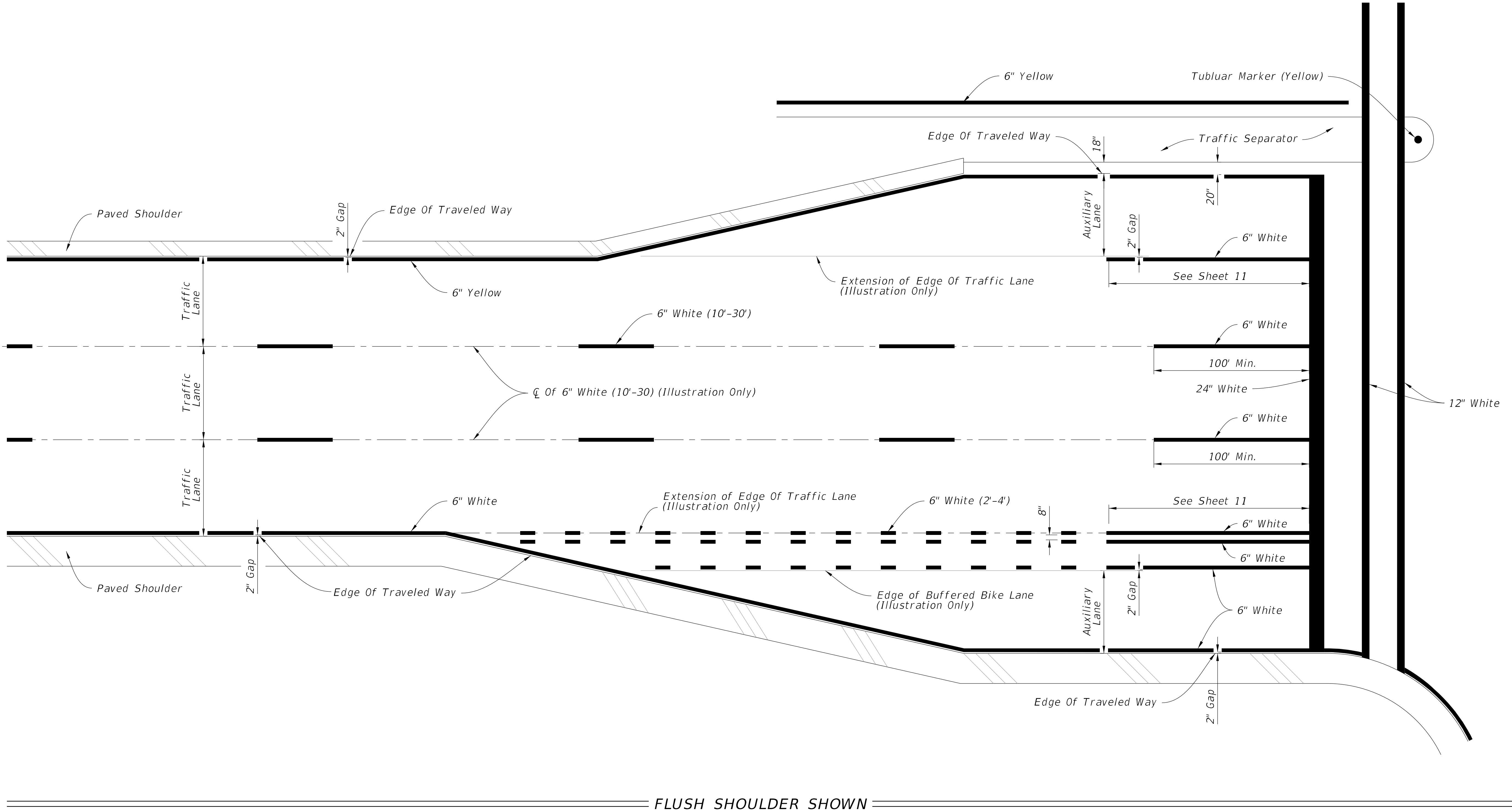
LAST REVISION 02/05/21	REVISION	DESCRIPTION: Added railroad pavement marking details.	 FY 2020-21 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001-1	SHEET 4 of 14
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2/5/2021 12:06:21 PM

PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

LAST REVISION 02/05/21	REVISION DESCRIPTION: Added railroad pavement marking details.	 FY 2020-21 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001-1	SHEET 5 of 14
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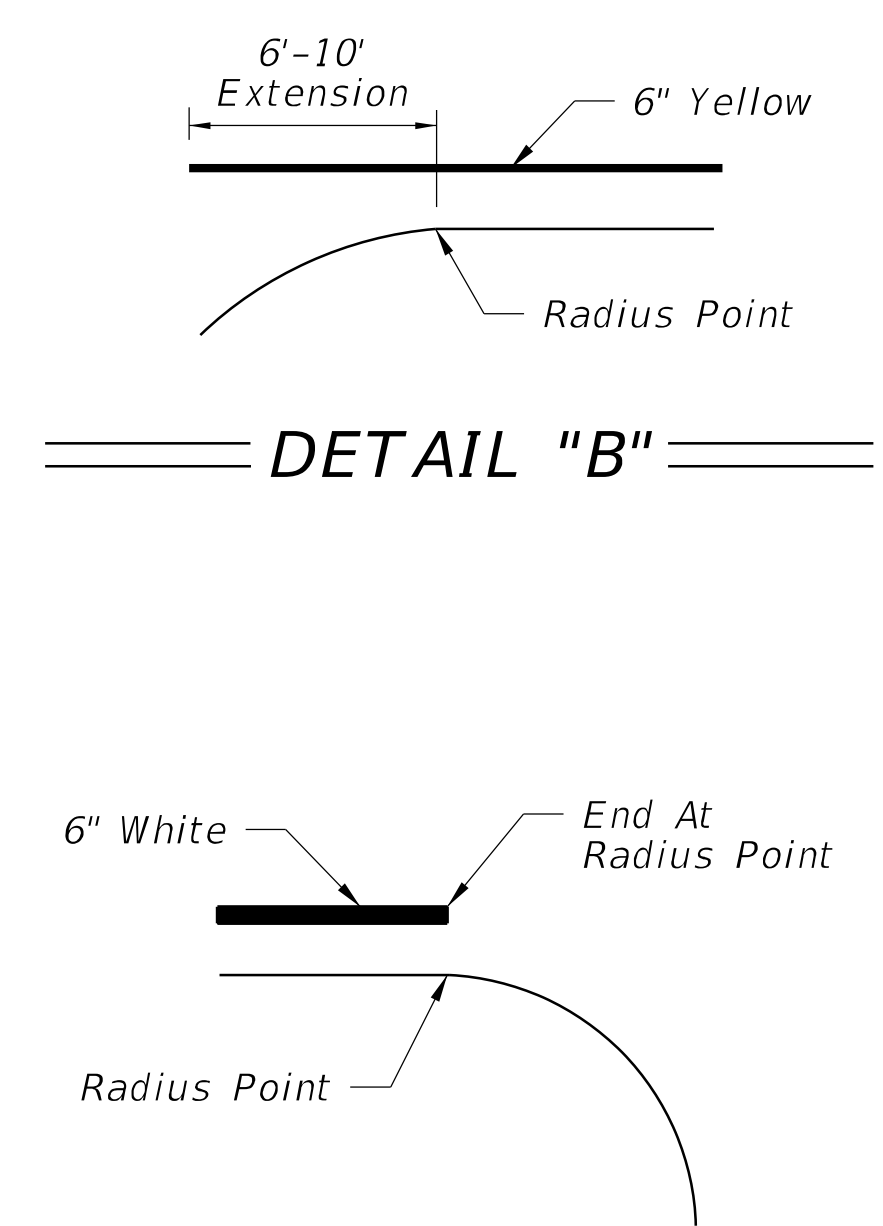
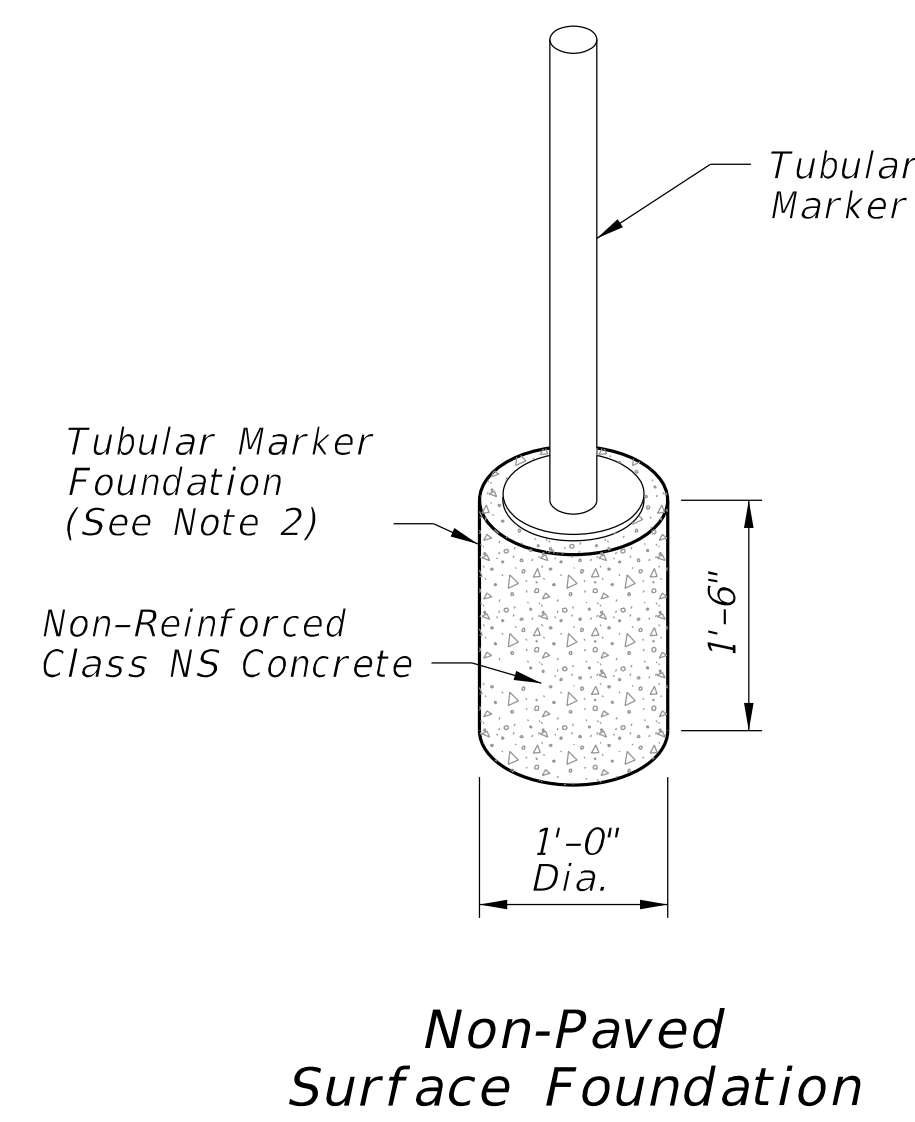
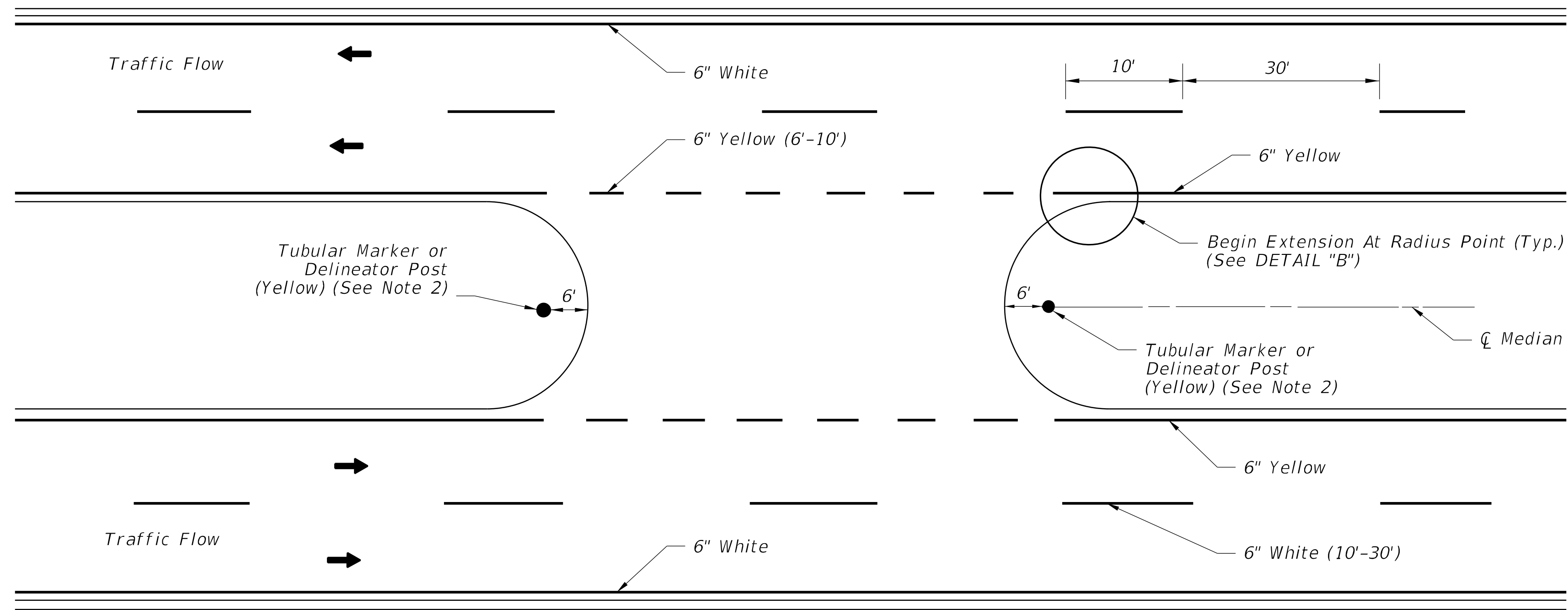


FLUSH SHOULDER SHOWN

PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

LAST REVISION 02/05/21	REVISION DESCRIPTION: Added railroad pavement marking details.	 FY 2020-21 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001-1	SHEET 6 of 14
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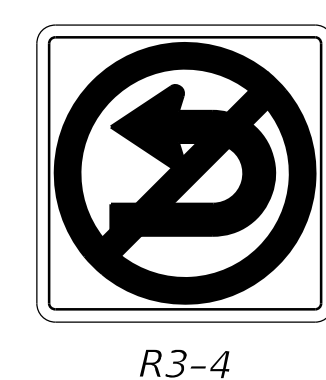
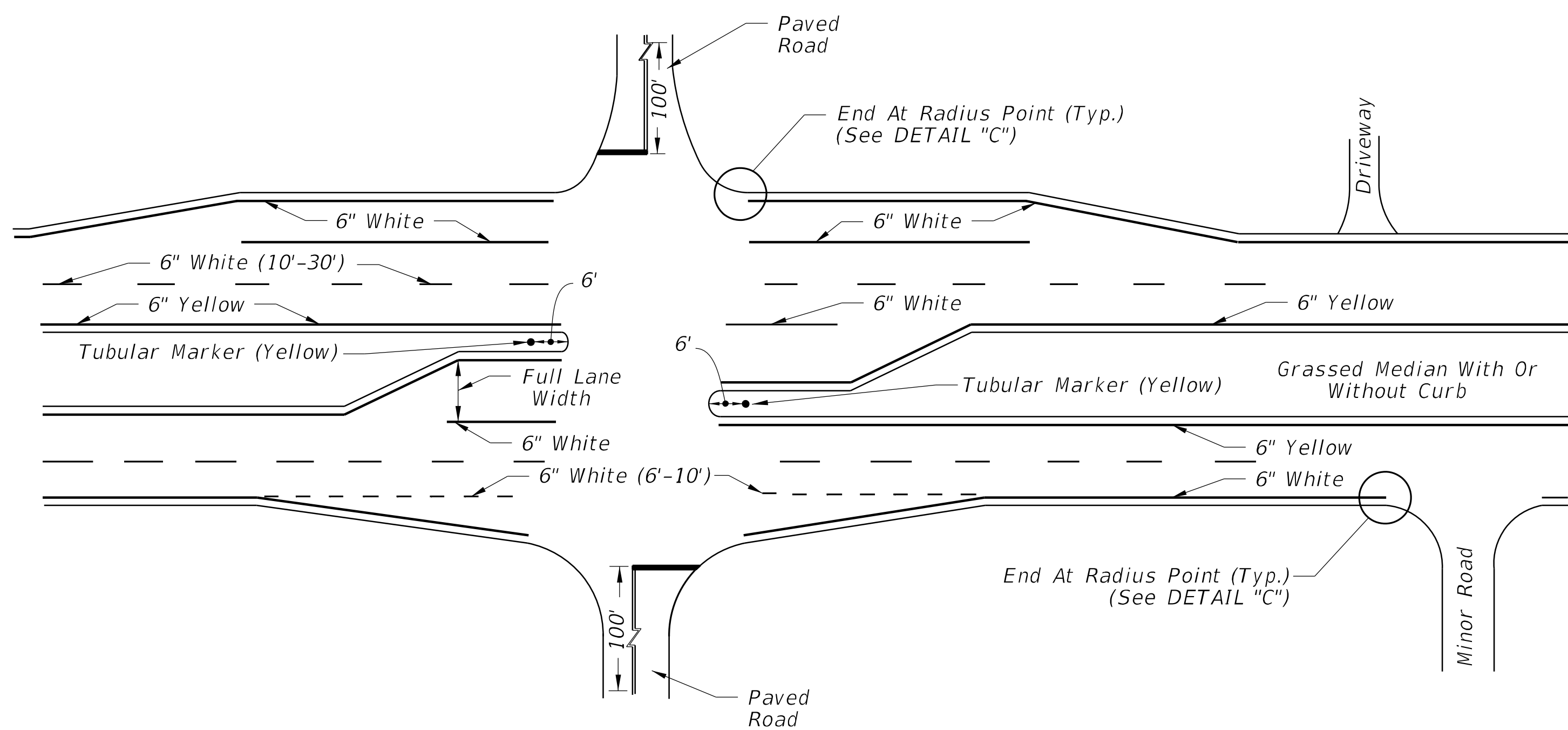
2/5/2021 12:06:22 PM



PAVEMENT MARKINGS AND DELINEATORS FOR MEDIAN CROSSOVER

DETAIL "A"

DETAIL "C"




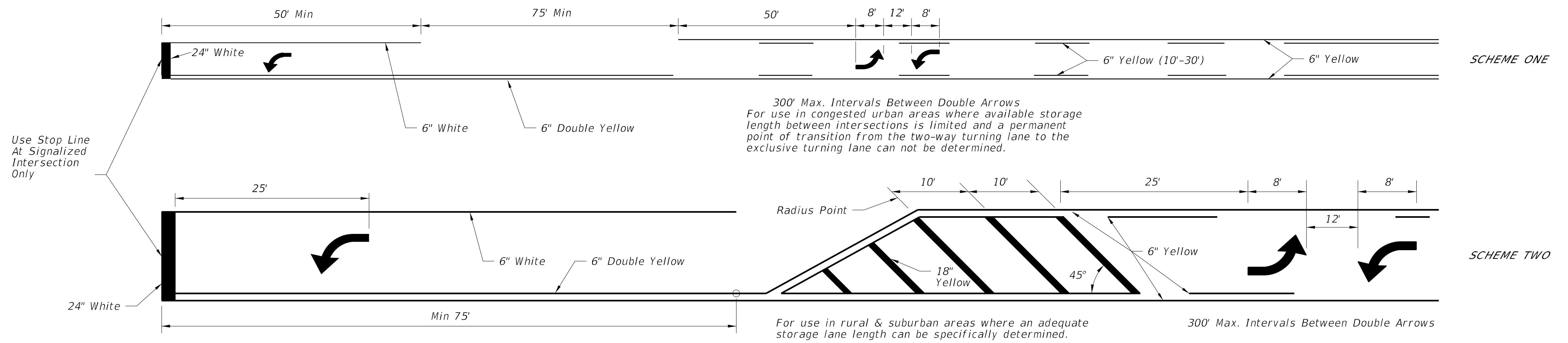
NOTE:

1. Apply yellow reflective paint to the noses of curbed medians, traffic separators, and raised islands. When applying yellow reflective paint in conjunction with Raised Pavement Markers, see Index 706-001.
2. Options for grassed medians:
 - A. Option 1: Tubular Marker (Yellow). Attach Tubular Marker Foundation according to manufacturer's instructions. Non-Paved Surface Foundation (See Detail "A") is provided as an option if no other suitable surface is provided. Install Non-Paved Surface Foundation flush with the surrounding ground surface.
 - B. Option 2: Delineator Post. Use yellow retro-reflective sheeting on both sides of the delineator. Install the post so that the top is 4'-0" above the grade at the edge of the pavement.
3. Extend double yellow centerlines 100' back from intersection on all approaches or 50' for unmarked cross roads.

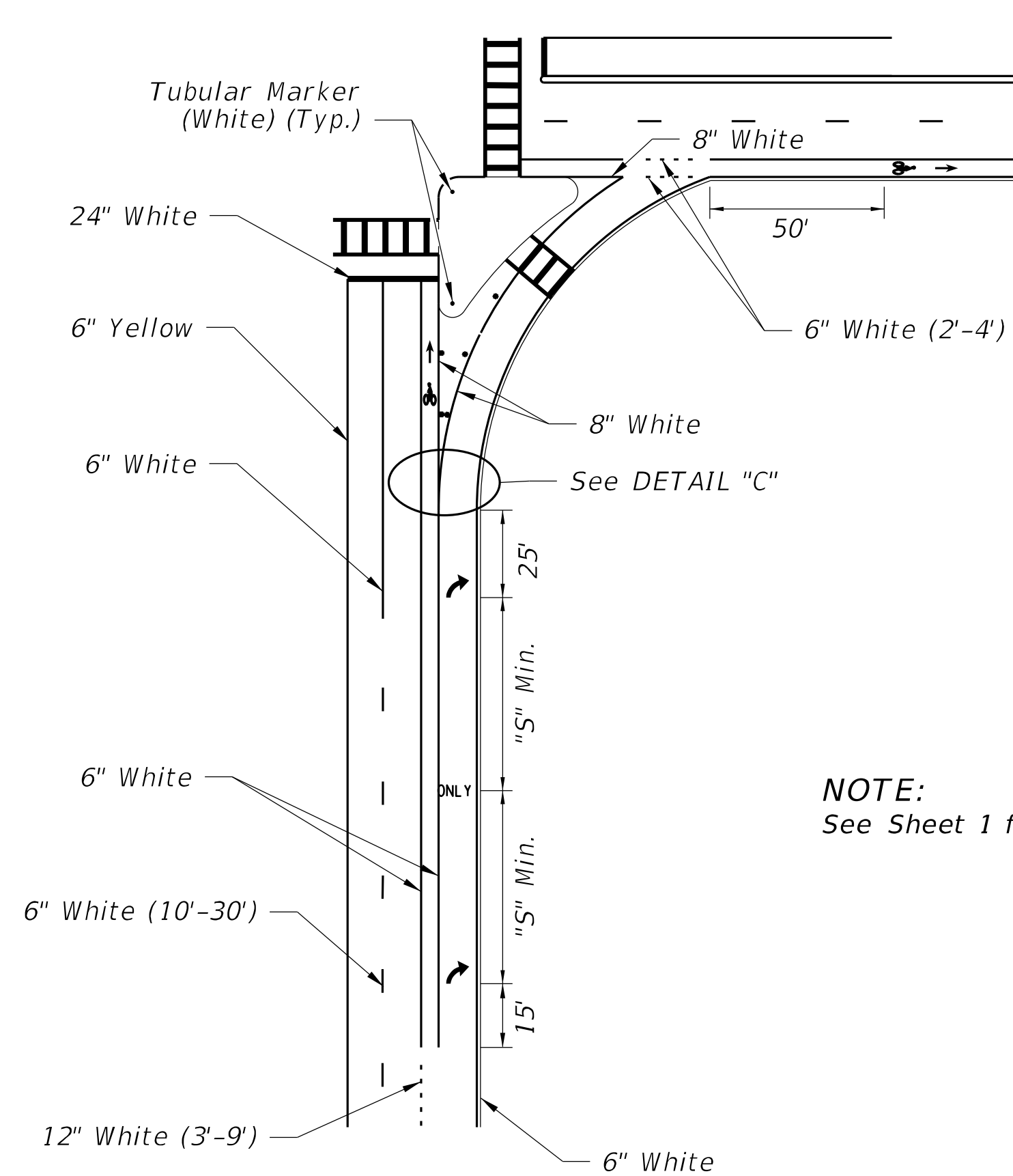
PAVEMENT MARKINGS FOR INTERSECTIONS WITH MAJOR AND MINOR ROADS

2/5/2021 12:06:25 PM

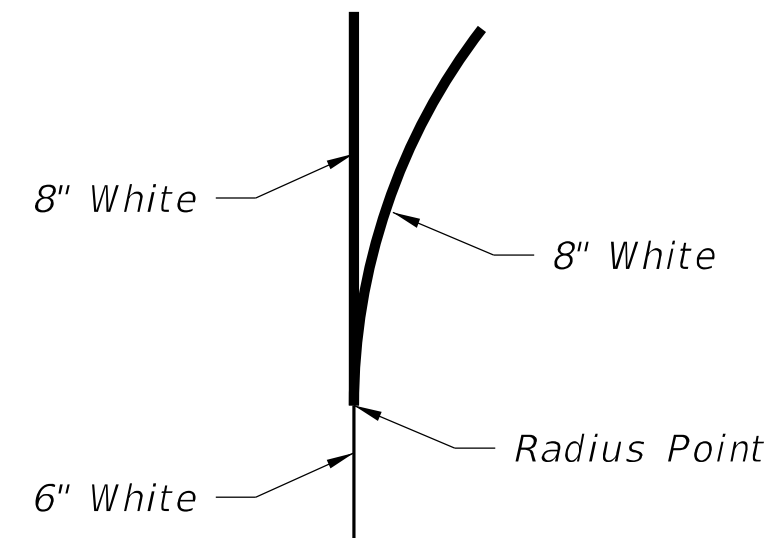
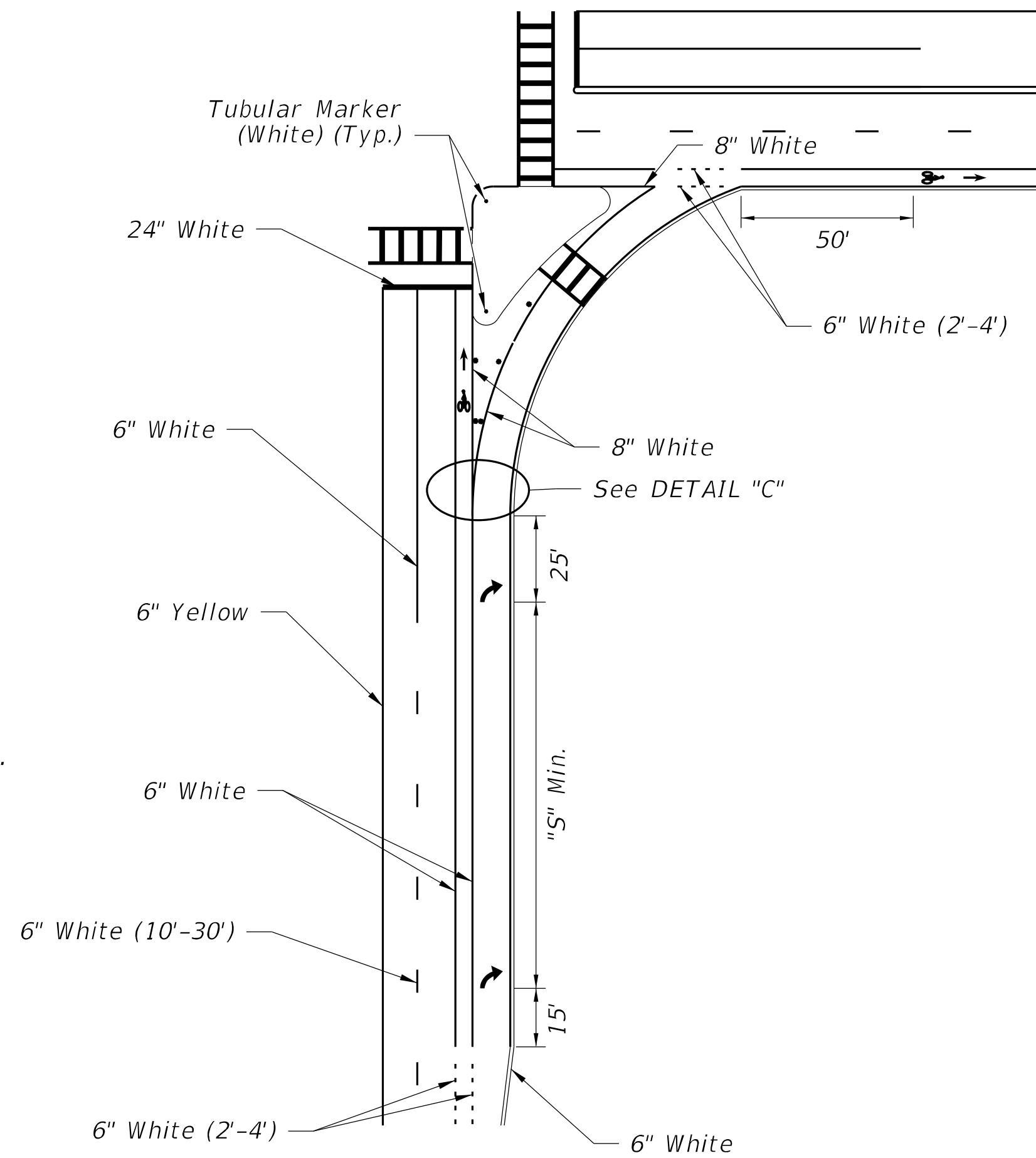
LAST REVISION 02/05/21	REVISION	DESCRIPTION: Added railroad pavement marking details.	 FY 2020-21 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001-1	SHEET 7 of 14
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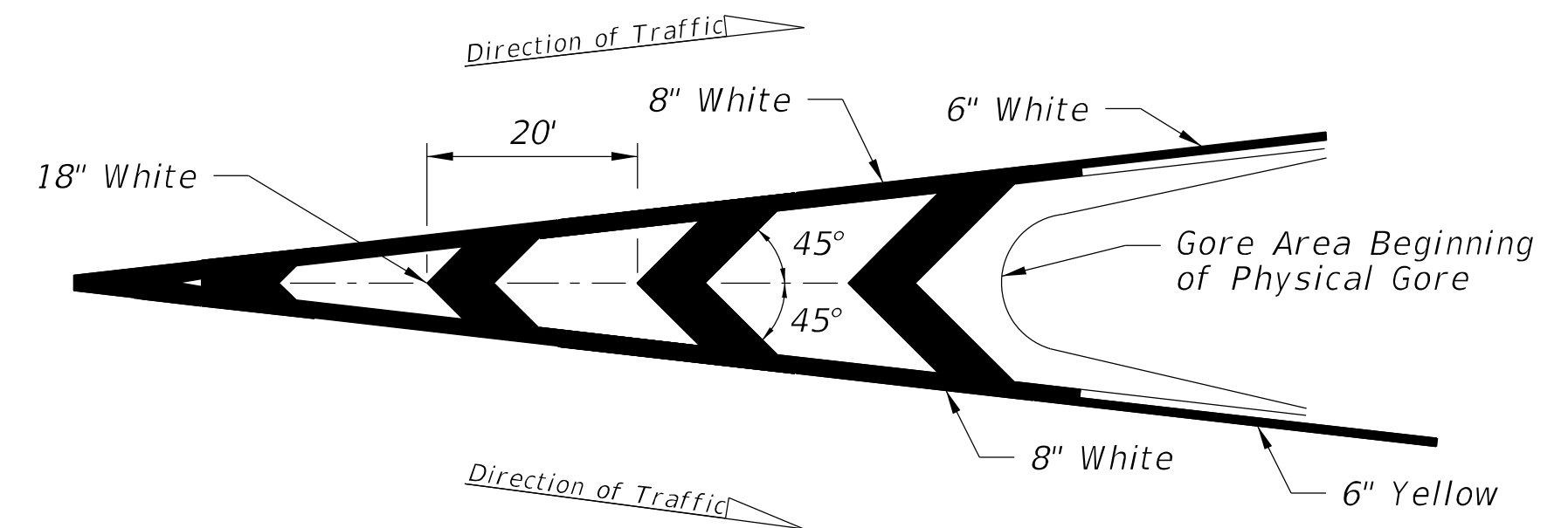
TWO WAY LEFT TURN LANE
 (With Single Lane Left Turn Channelization)



NOTE:
 See Sheet 1 for "S" value.



DETAIL "C"



NOTE:
 See Sheet 1 for "S" value.

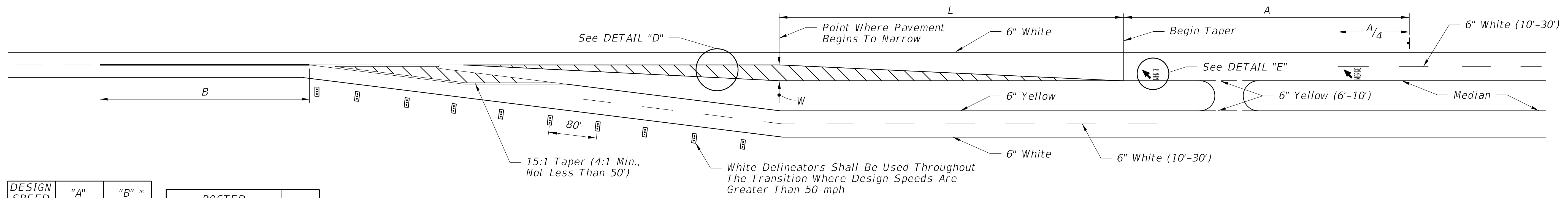
TRAFFIC CHANNELIZATION AT GORE

RIGHT TURN LANE DROP AND ISLAND DETAILS
 LEFT TURN LANE DROP IS MIRROR IMAGE

RIGHT TURN LANE AND ISLAND DETAILS

2/5/2021 12:06:27 PM

LAST REVISION 02/05/21	DESCRIPTION: Added railroad pavement marking details.		FY 2020-21 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001-1	SHEET 8 of 14
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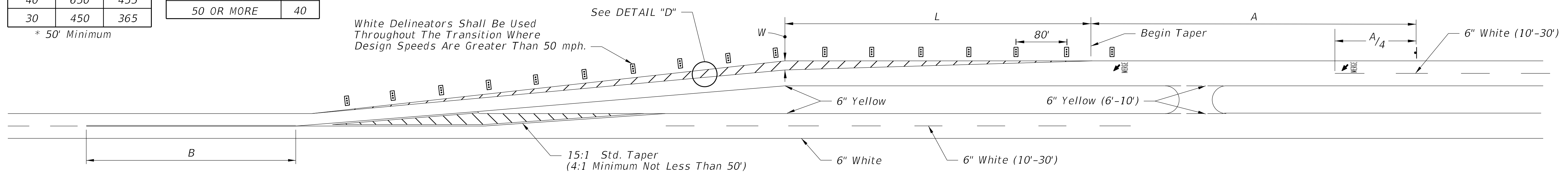


DESIGN SPEED (MPH)	"A" (FT.)	"B" * (FT.)
60	---	640
55	950	595
50	850	550
45	750	500
40	650	455
30	450	365

POSTED SPEED LIMIT MPH	"Y" (FT.)
30 OR LESS	10
35	20
40	20
45	30
50 OR MORE	40

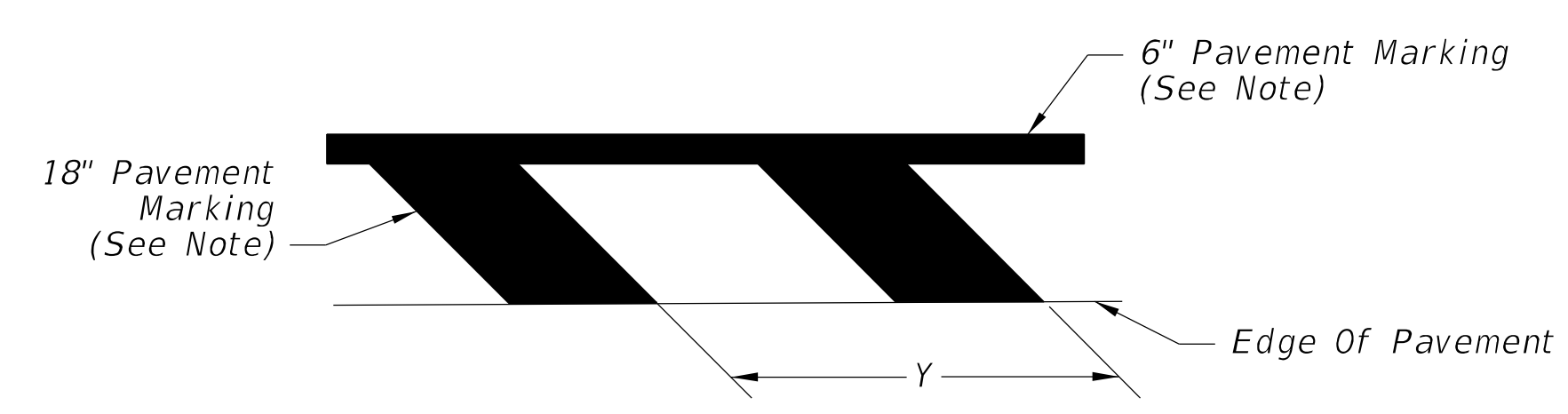
DESIGN SPEED 'S' (MPH)	Length 'L' (FT.)
40 or Less	$L = WS^2/60$
45 or Greater	$L = WS$

LEFT ROADWAY CENTERED ON EXISTING ROADWAY

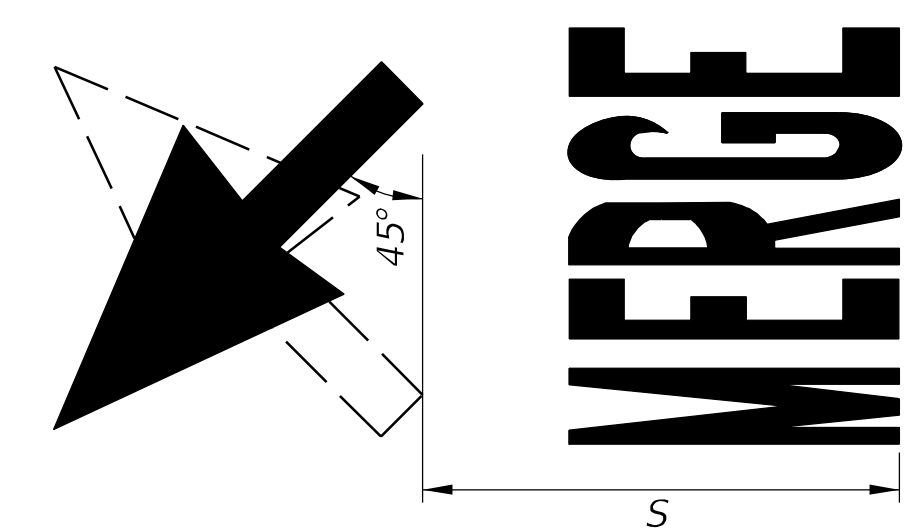


RIGHT ROADWAY CENTERED ON EXISTING ROADWAY

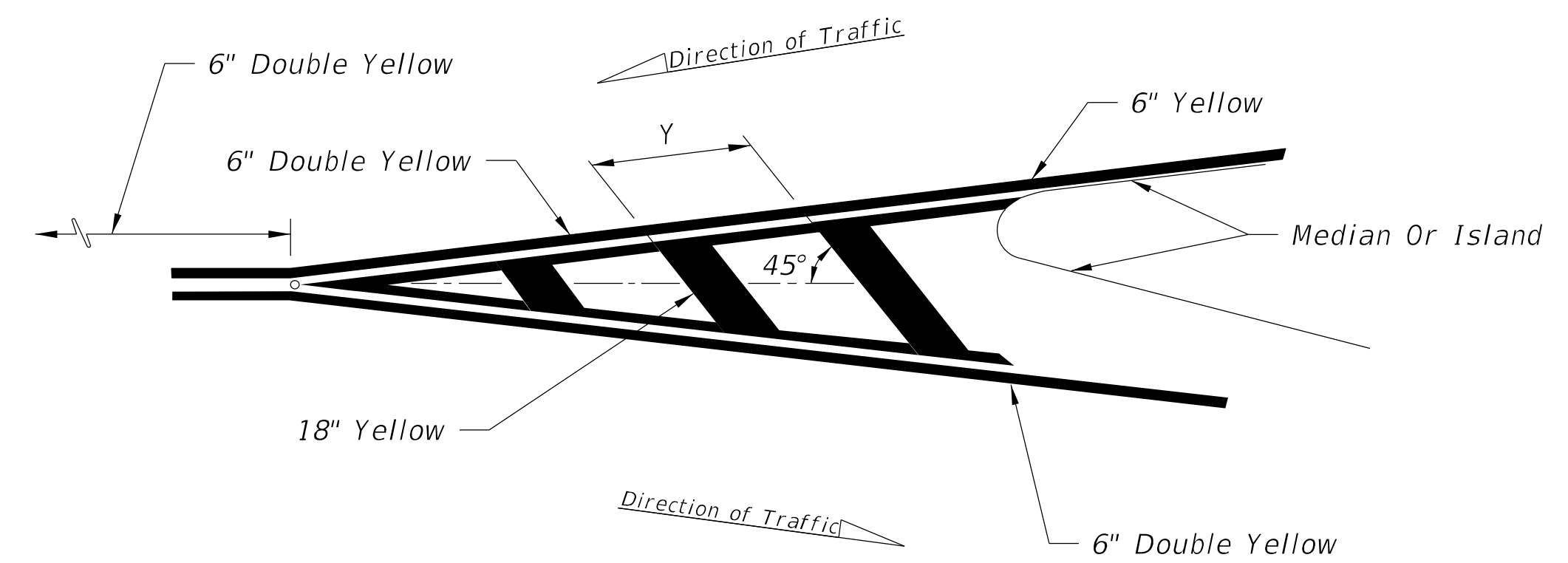
SCHEMES FOR TRANSITION - 2 LANE / 4 LANE ROADWAY



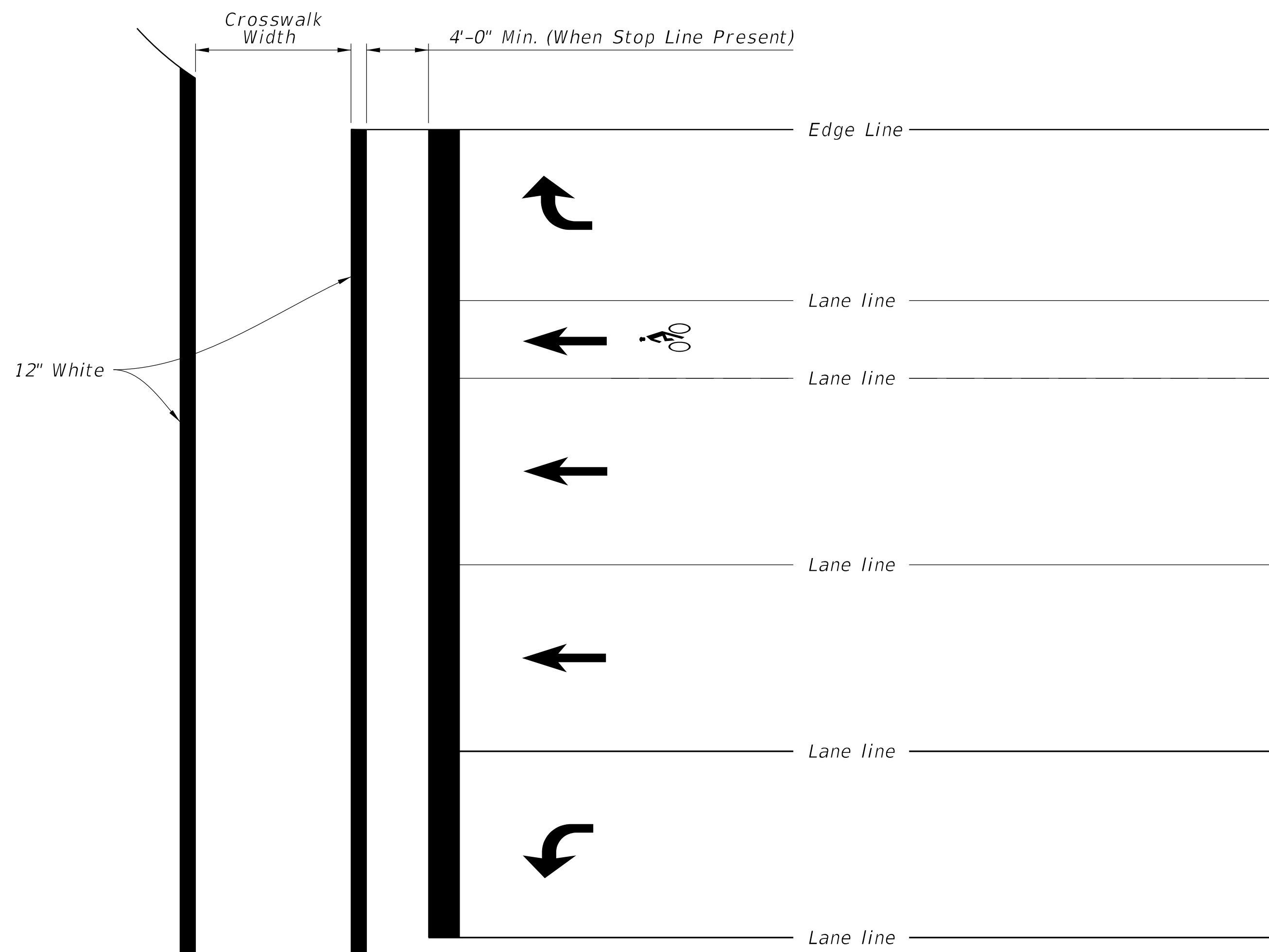
NOTE:
Make pavement markings yellow for left roadway centered on existing roadway. Right roadway centered on existing roadway is similar with white pavement markings.



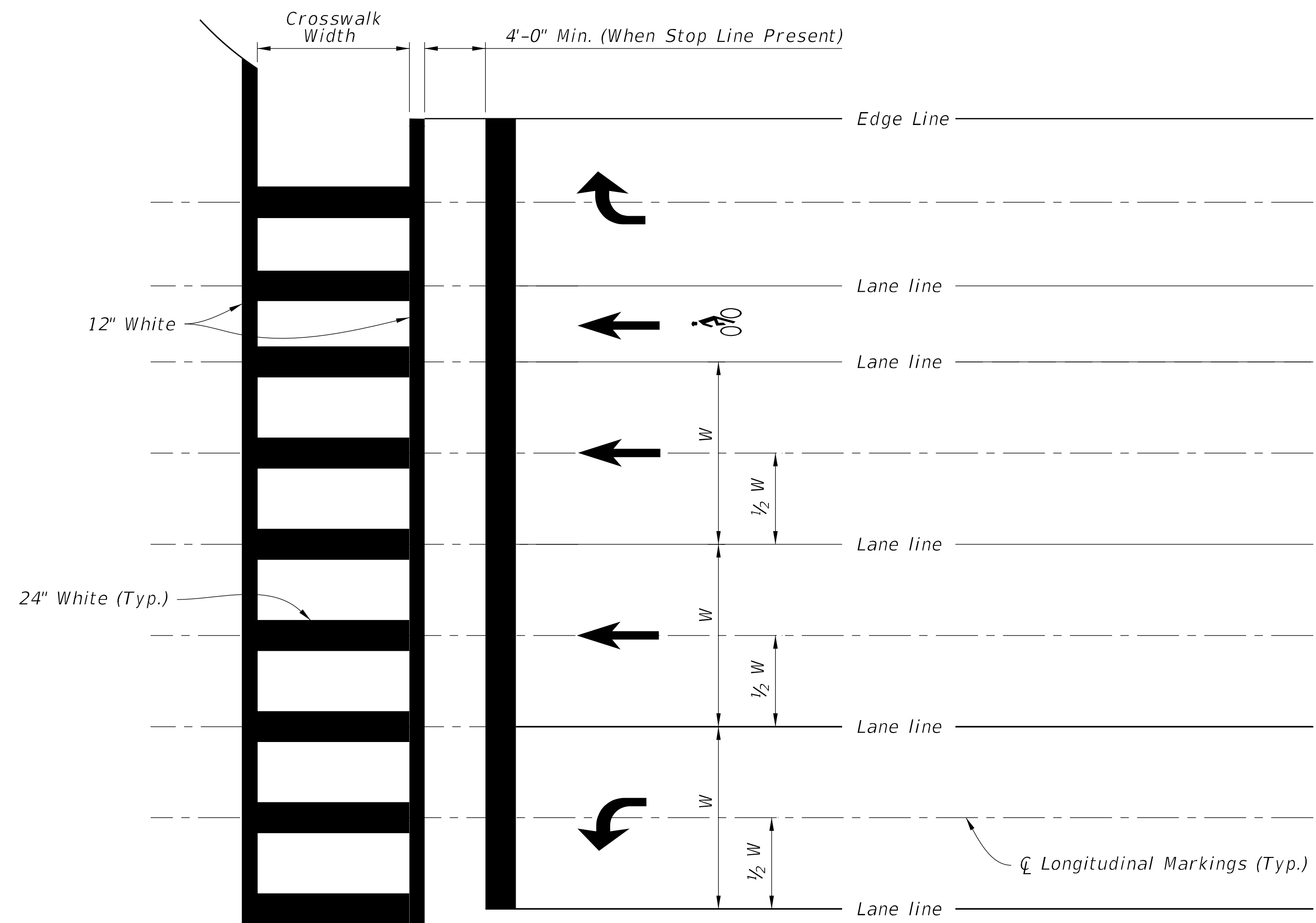
NOTE: See Sheet 1 for "S" value.



12:06:28 PM 2/5/2021



STANDARD CROSSWALK DETAILS




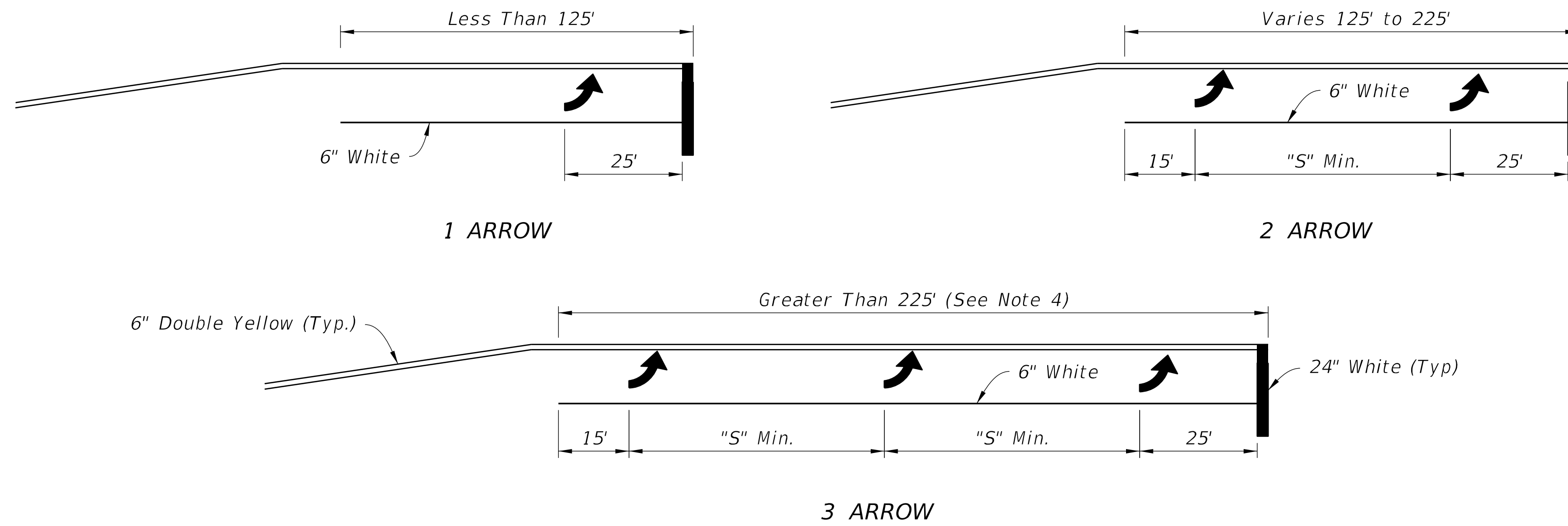
SPECIAL EMPHASIS CROSSWALK DETAILS

NOTES:

1. For crosswalk width, exceed width of the adjacent sidewalk, but do not make width less than 6' for intersection crosswalks and 10' for midblock crosswalks. Measure width from the inside of the transverse crosswalk markings.
2. When the Special Emphasis Crosswalk is not perpendicular to the lane lines, make the longitudinal markings parallel to the lane lines.
3. Refer to Index 522-002 when Curb Ramps are present.

2/5/2021 12:06:29 PM

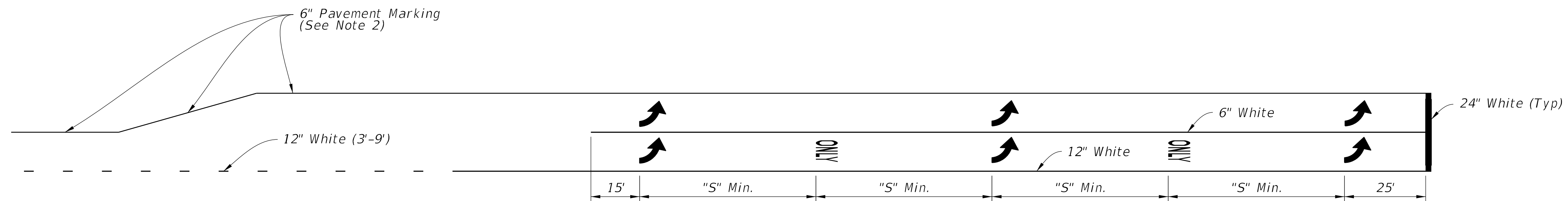
LAST REVISION 02/05/21	REVISION DESCRIPTION: Added railroad pavement marking details.	 FY 2020-21 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001-1	SHEET 10 of 14
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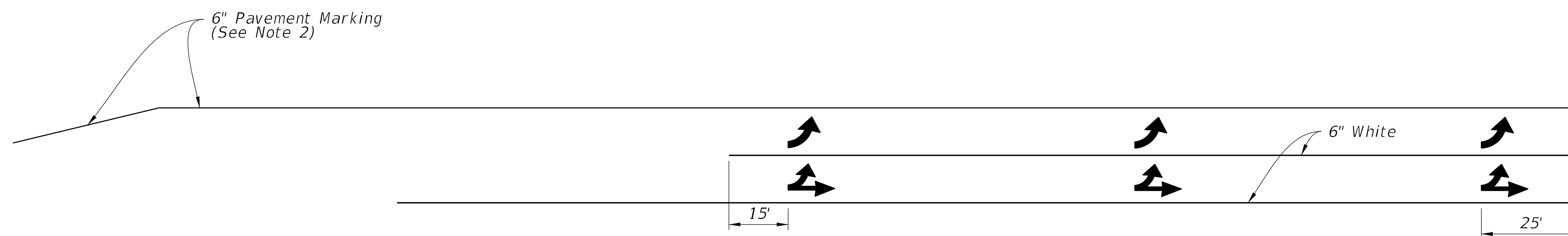
NOTES:

1. This Index also applies to right turn lanes.
2. Make pavement marking yellow for left-turn lanes and white for right-turn lanes.
3. See Sheet 1 for "S" value.
4. Space arrows evenly between the first and last arrow with the minimum spacing of "S" between arrows.
5. For turn lanes greater than 225' in length, use a minimum of three arrows. Use additional arrows in accordance with the Plans or as directed by the Engineer. Space arrows evenly throughout the available length with a minimum spacing of "S" between arrows.

SINGLE LEFT TURNS



Through Lane Becomes Exclusive Left Turn



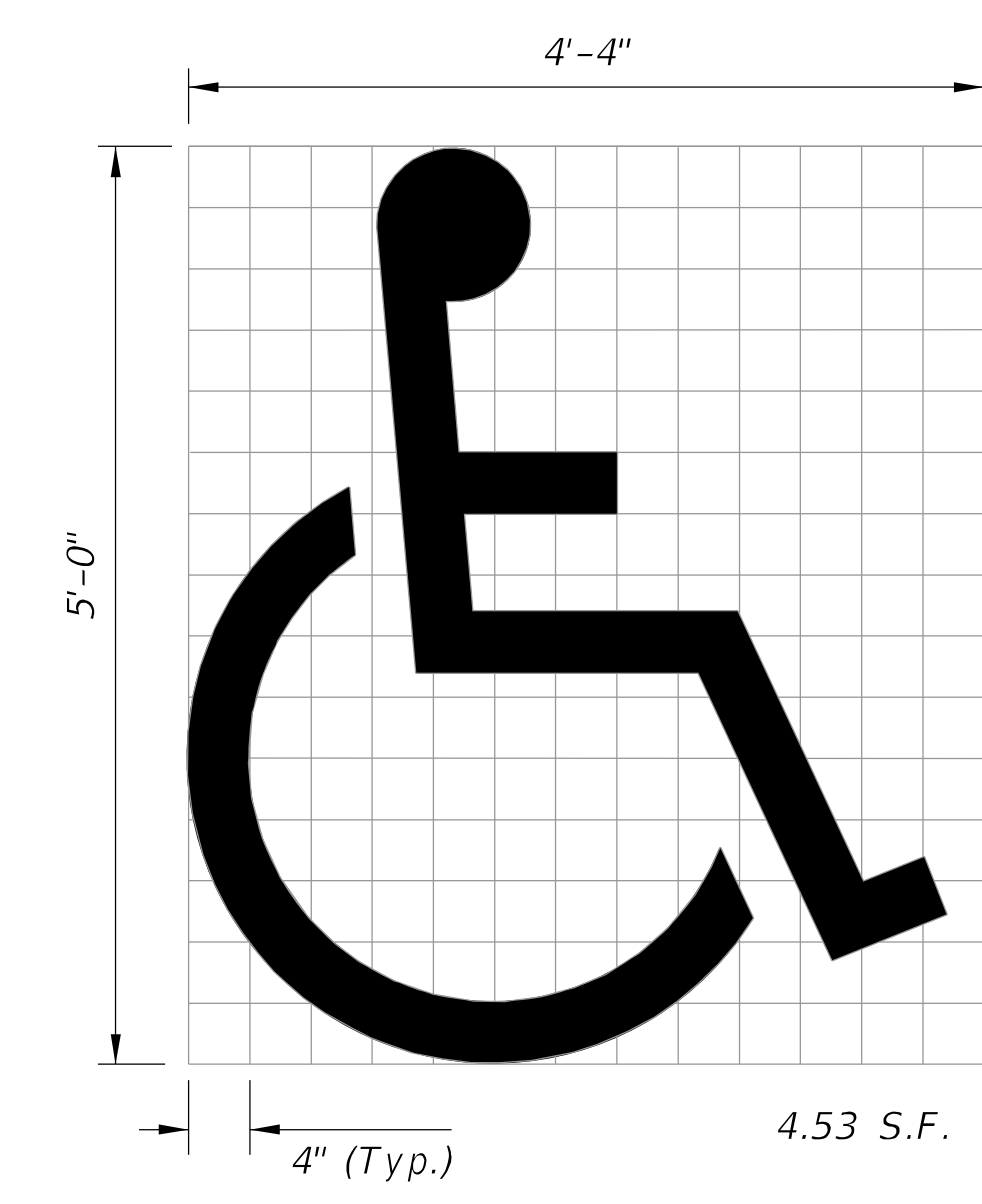
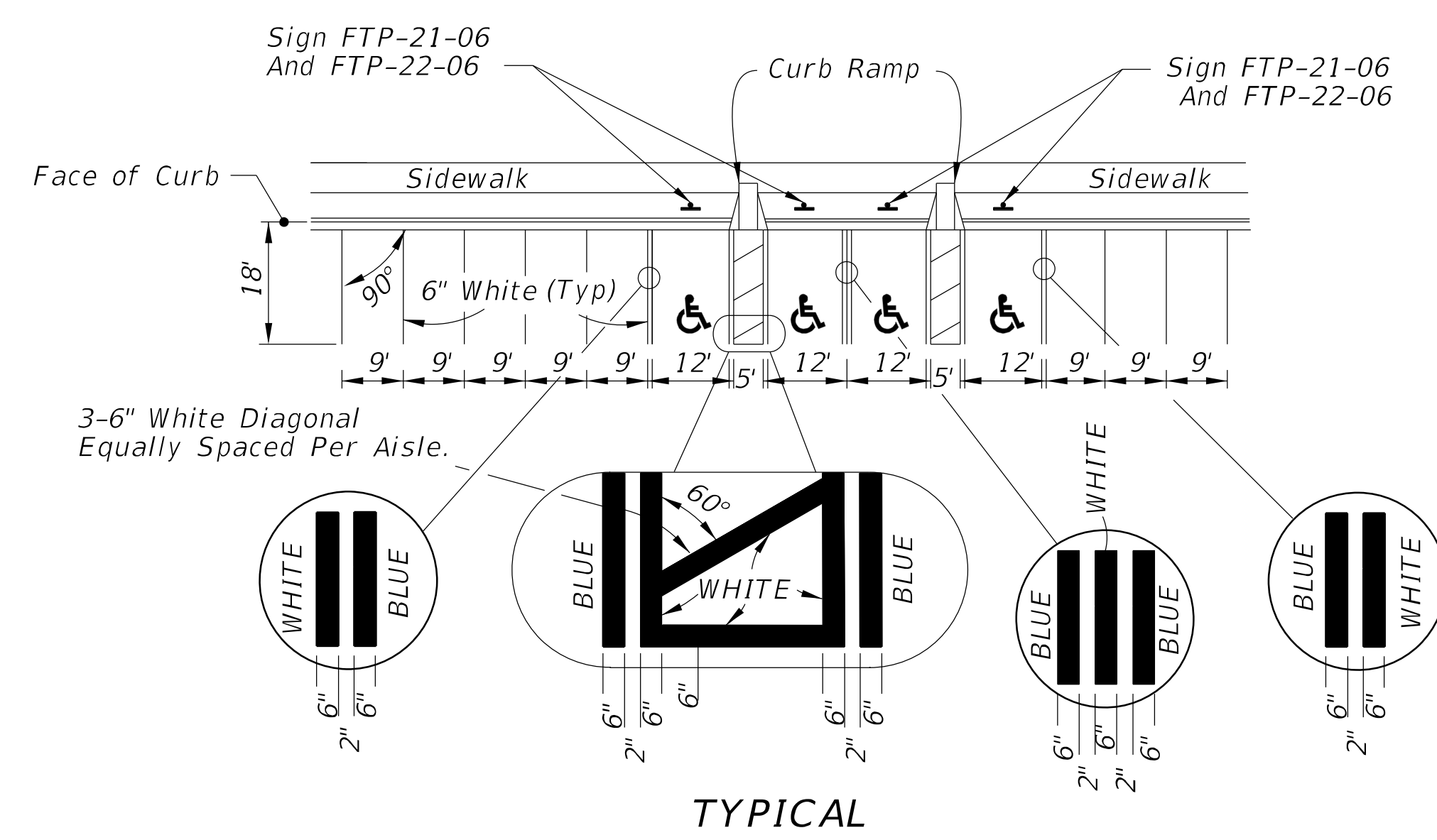
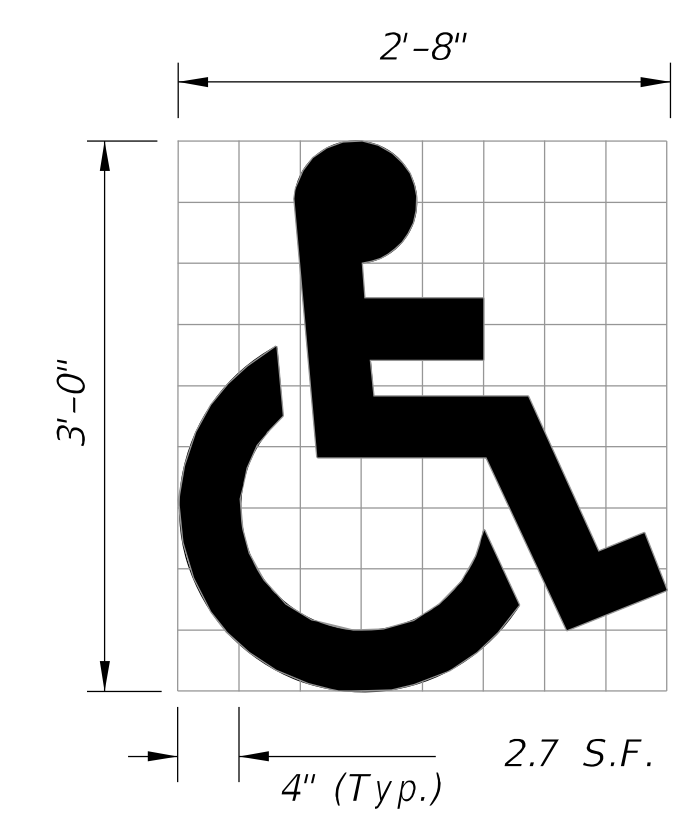
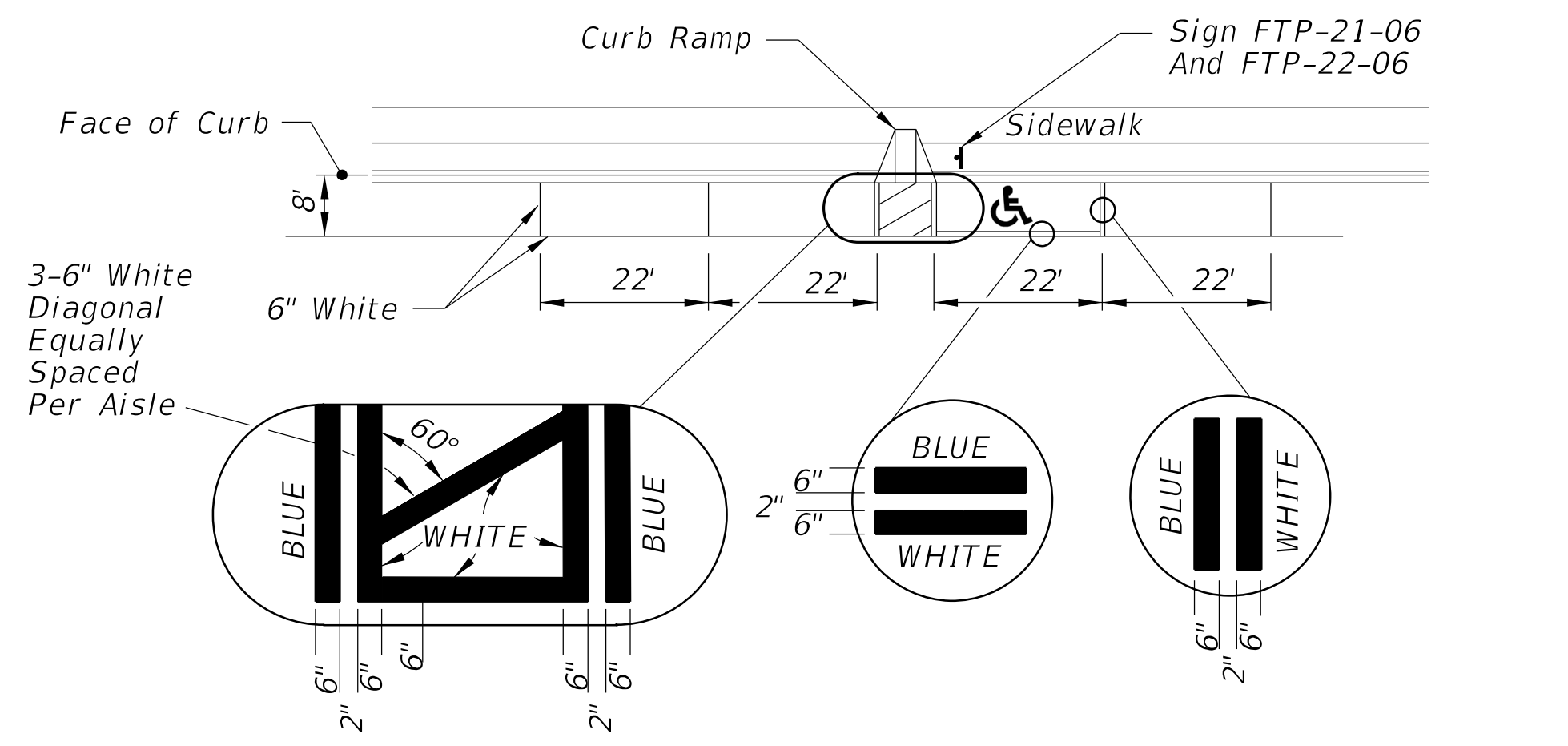
Through Lane Becomes Optional Left Turn

DOUBLE LEFT TURNS

2/5/2021 12:06:31 PM

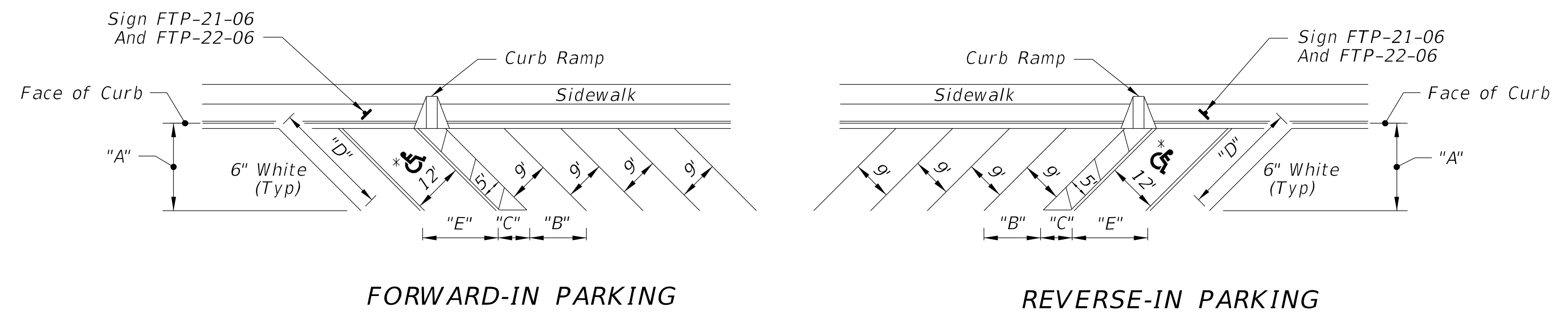
TURN LANE MARKINGS

LAST REVISION 02/05/21	REVISION	DESCRIPTION: Added railroad pavement marking details.	 FY 2020-21 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001-1	SHEET 11 of 14
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(See Note 6)

UNIVERSAL SYMBOL OF ACCESSIBILITY



* FOR ACCESSIBLE MARKINGS - SEE ABOVE

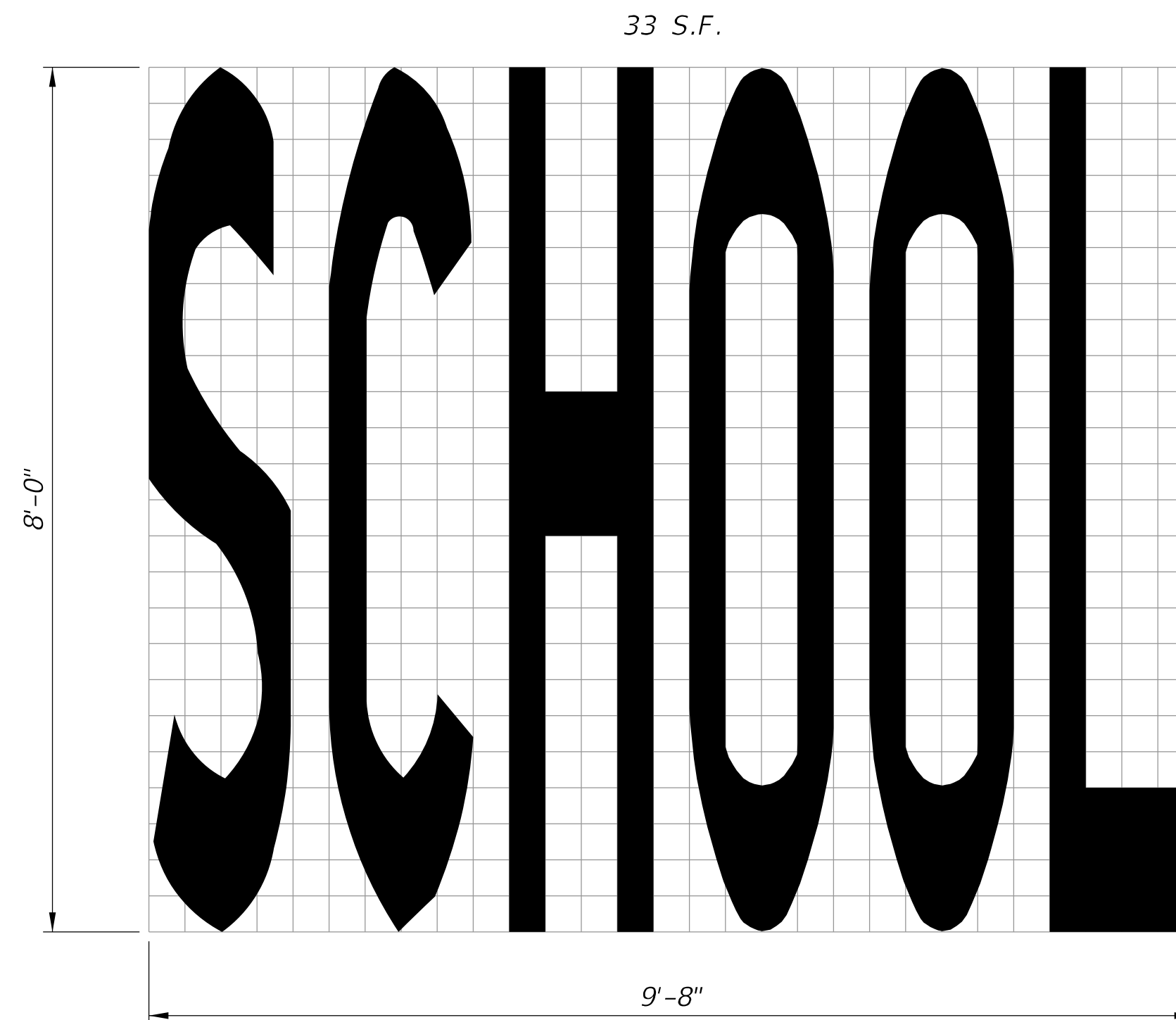
DIMENSIONS					
∠ θ	"A"	"B"	"C"	"D"	"E"
45°	17'-0"	12'-9"	7'-0"	24'-0"	17'-0"

PAVEMENT MARKING FOR PARKING

NOTES:

1. Dimensions are to the centerline of markings.
2. An Access Aisle is required for each accessible space when angle parking is used.
3. Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.
4. Tint blue pavement markings to match color 15180 of Federal Standards 595a.
5. Mount FTP-22-06 sign below the FTP-21-06 sign.
6. Use of the pavement symbol in accessible parking spaces is optional. When pavement symbol is used, the symbol is either 3'-0" or 5'-0" high and white in color.

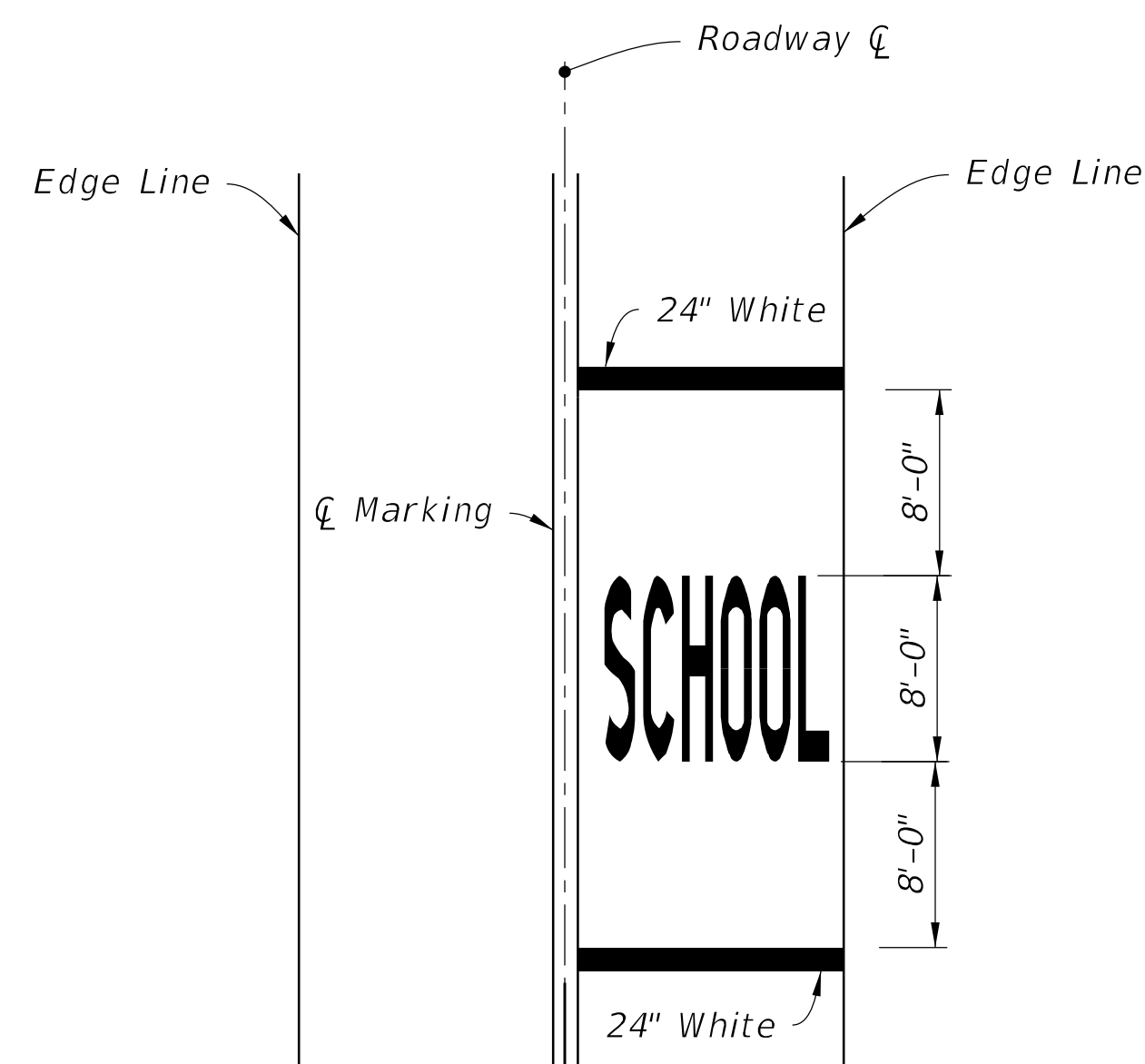
2/5/2021 12:06:32 PM



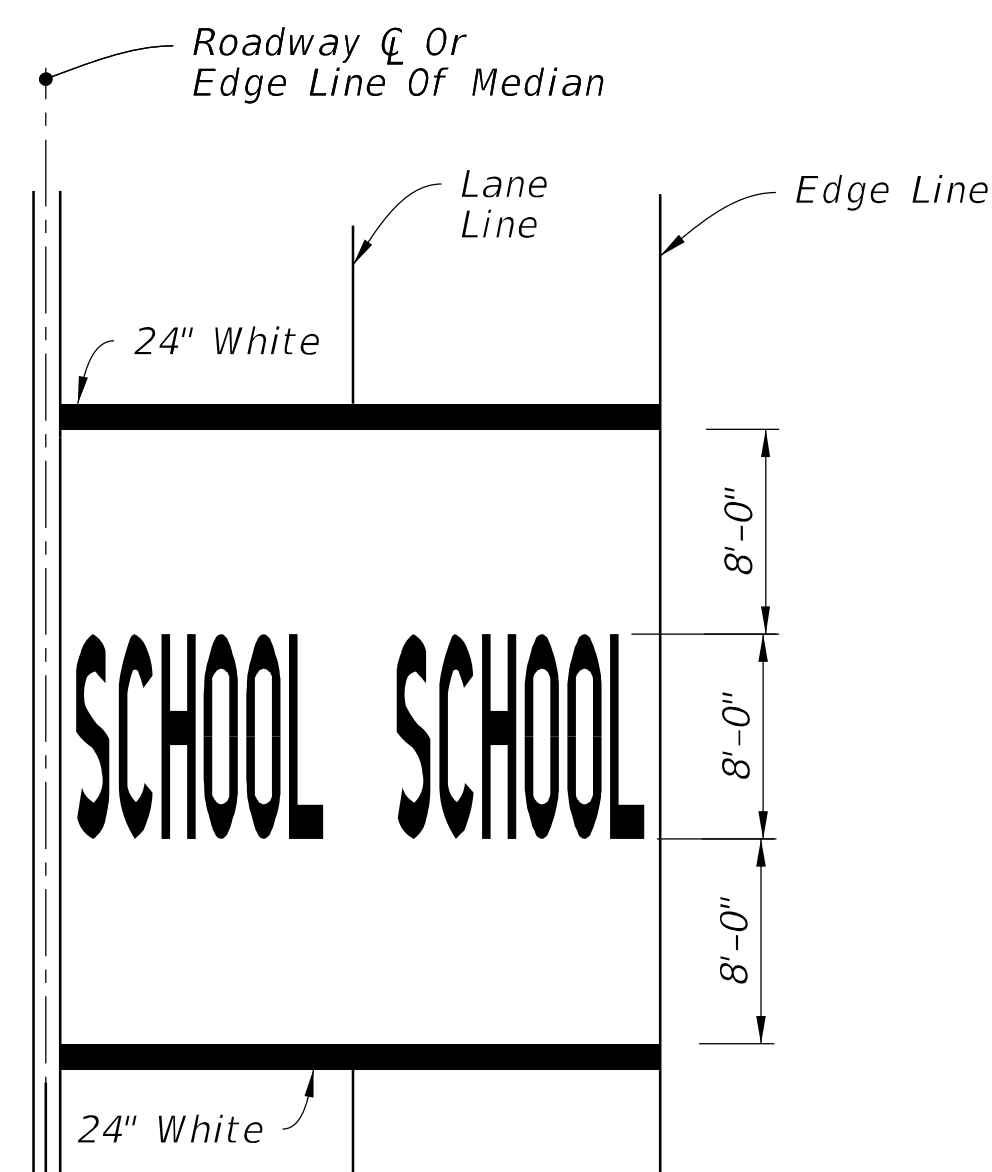
SCHOOL PAVEMENT MARKING

NOTES:

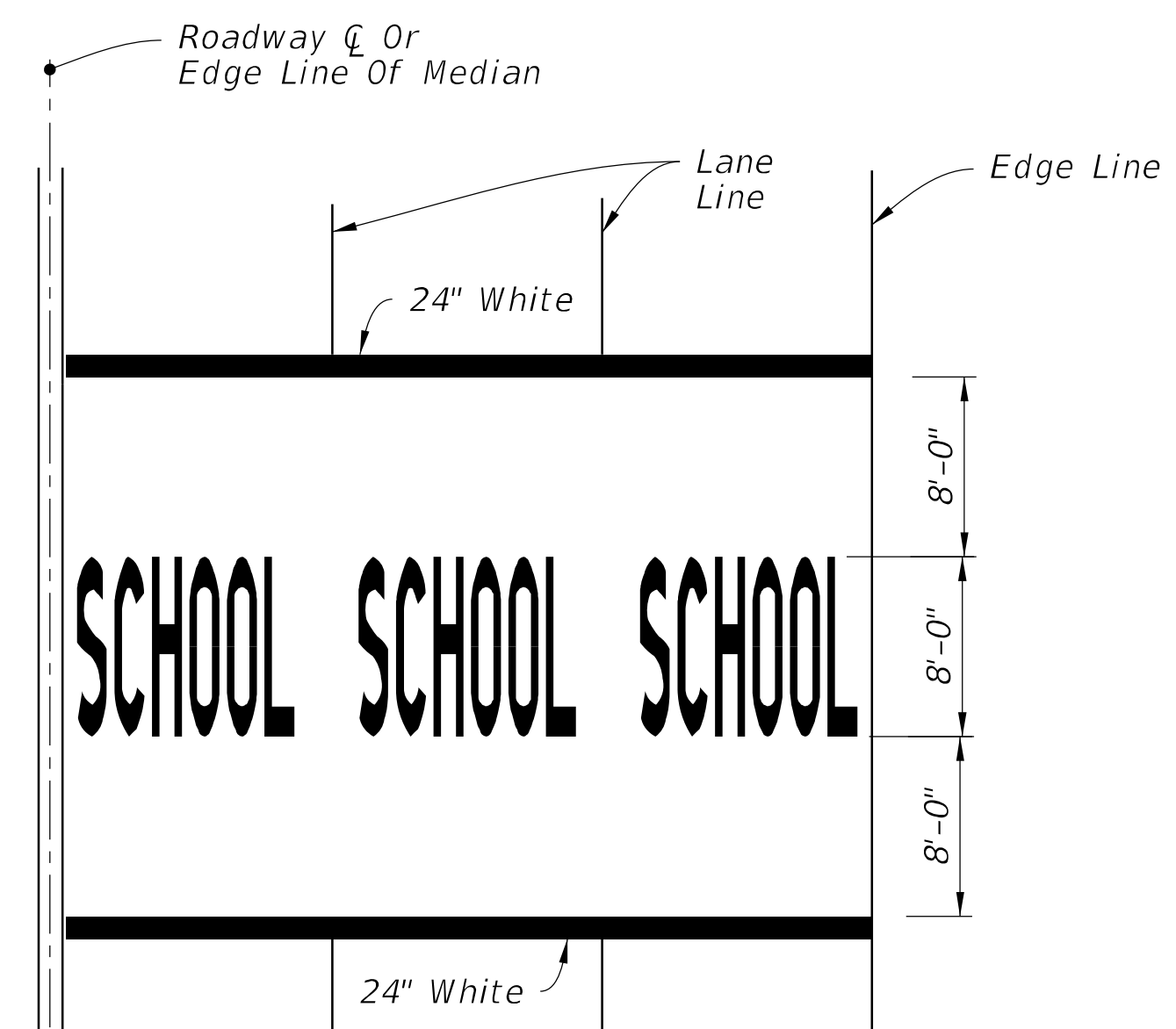
1. All grids are 4" x 4".
2. Pavement Marking Should Not Extend Into Opposing Lane.
3. Center School Pavement Marking in lane.



SINGLE-LANE APPROACH



TWO-LANE APPROACH



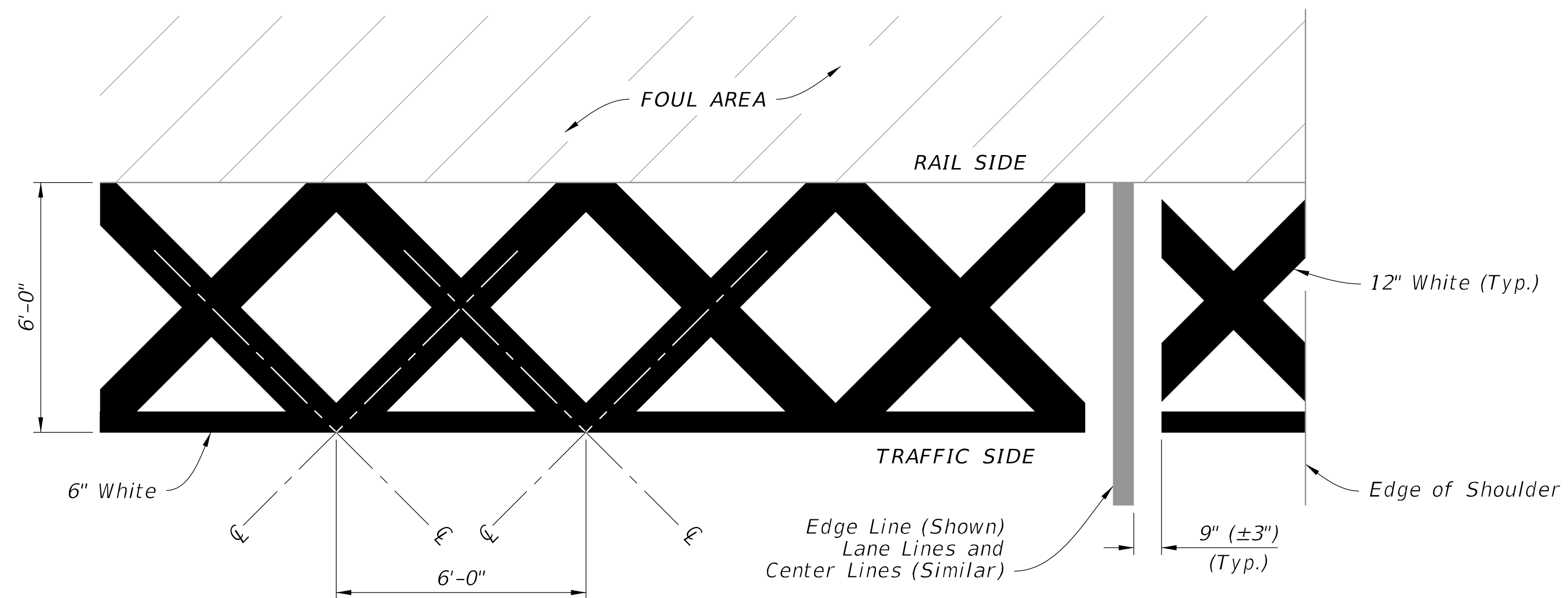
MULTI-LANE APPROACH
(Three or More)

MARKINGS FOR SCHOOL ZONES

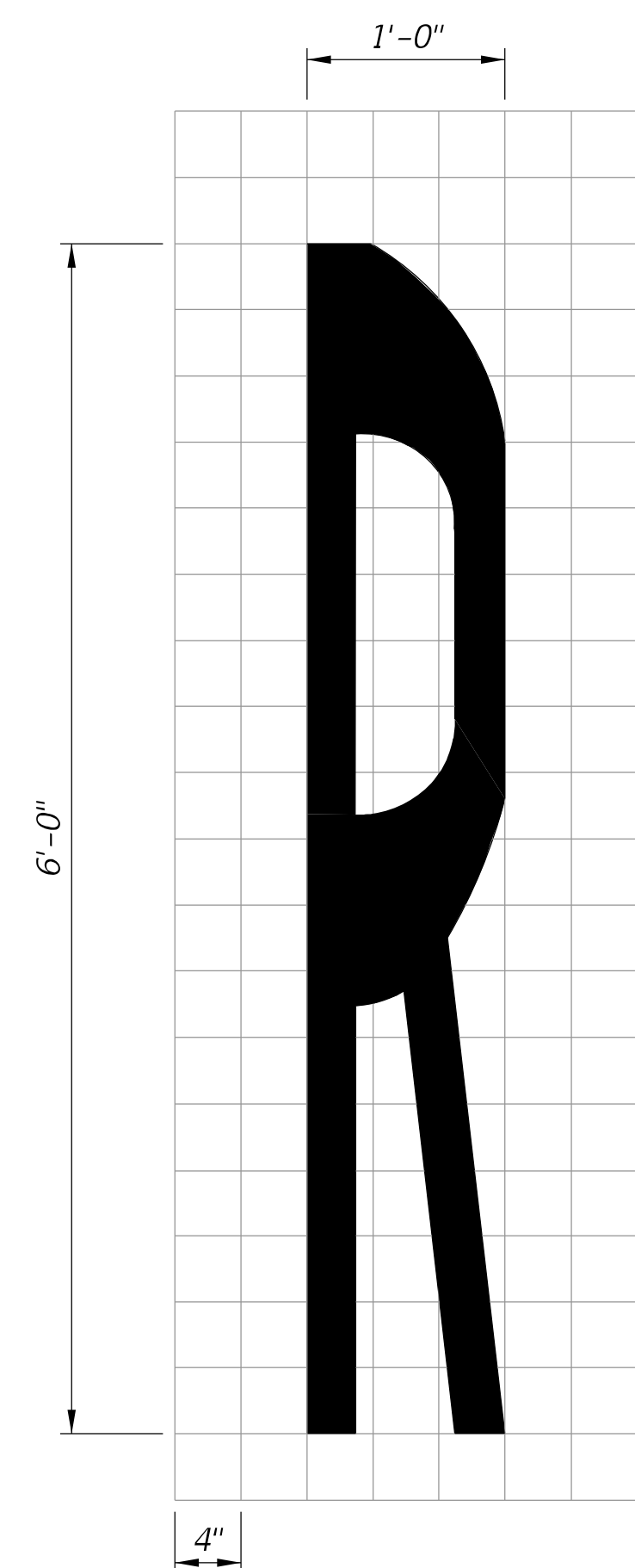
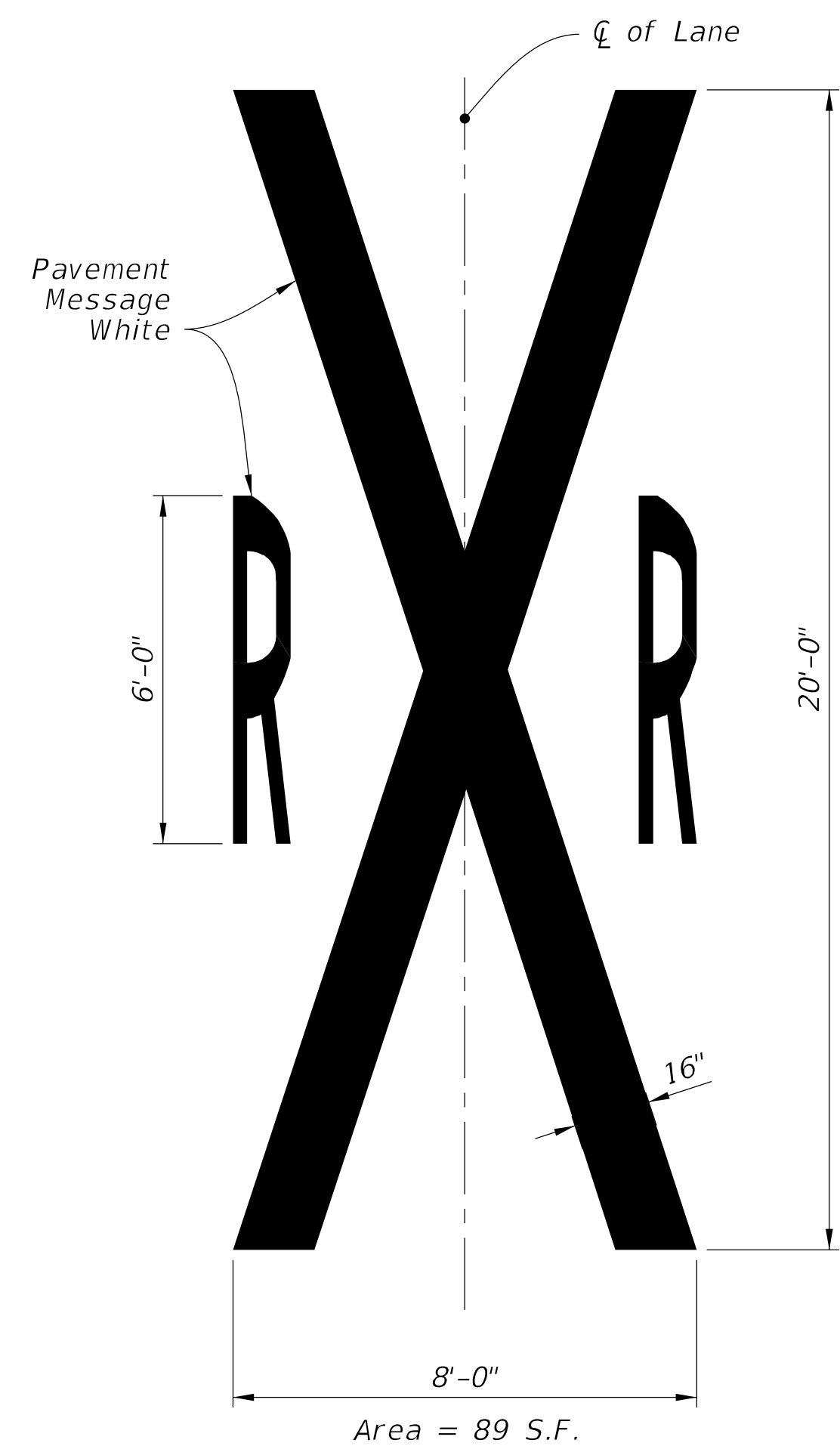
12:06:35 PM
2/5/2021

LAST REVISION 02/05/21	REVISION	DESCRIPTION: Added railroad pavement marking details.	 FY 2020-21 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001-1	SHEET 13 of 14
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NOTE:
Orient Railroad Dynamic Envelope Marking as shown in the Plans.



RAILROAD DYNAMIC ENVELOPE (RDE) PAVEMENT MARKING DETAIL



RAILROAD CROSSING PAVEMENT MESSAGE

12:06:36 PM
2/5/2021

LAST REVISION
02/05/21

REVISION DESCRIPTION:
Added railroad pavement marking details.



FY 2020-21
STANDARD PLANS

PAVEMENT MARKINGS

INDEX
711-001-1

SHEET
14 of 14