

COMPONENTS OF CONTRACT PLANS SET

ROADWAY, SIGNING AND MARKING PLANS
LIGHTING PLANS

INDEX OF SHEETS

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8	STORMWATER POLLUTION PREVENTION PLAN
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2-28-25

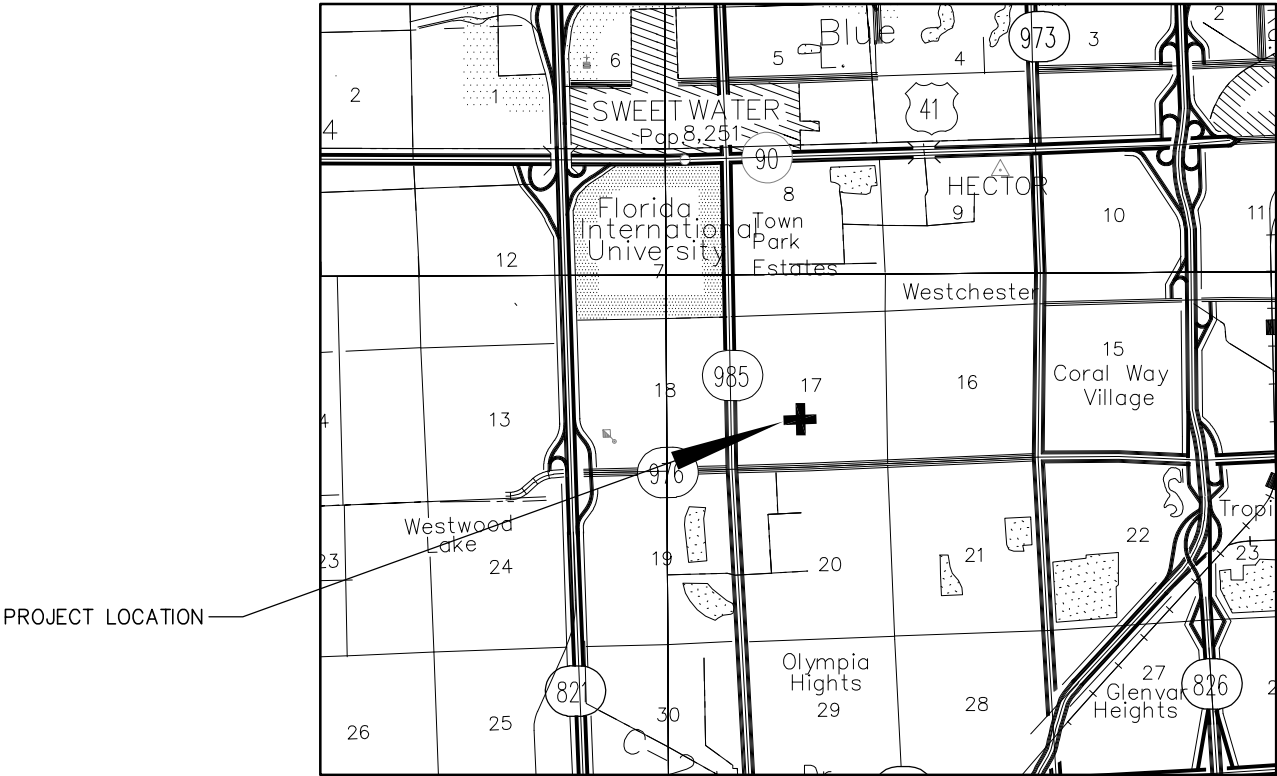
STANDARD INDEX DRAWINGS

SHT. No.	SHEET DESCRIPTION
SD 1.1	EXFILTRATION TRENCH (FRENCH DRAIN)
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THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE COVERED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS PARTS 1, 2 AND 3. THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS. THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AS AMENDED BY CONTRACT DOCUMENTS.



PLANS FOR PROPOSED
INTERSECTION IMPROVEMENTS TO
SW 109 AVE. & SW 32 ST
MIAMI-DADE COUNTY PROJECT NO. 20220058
RIF DISTRICT 10



PROJECT LOCATION

PREPARED FOR

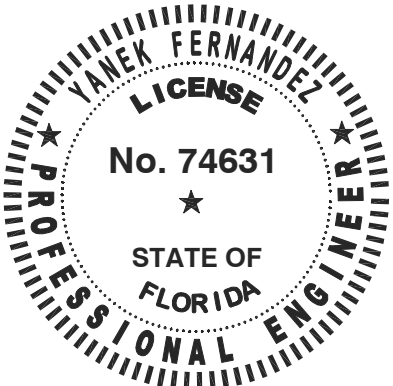
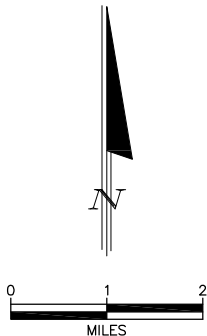


MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY ENGINEERING DIVISION

STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

NOTE:

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.



THIS ITEM HAS BEEN DIGITALLY SIGNED
AND SEALED BY YANEK FERNANDEZ, P.E.
ON THE DATE ADJACENT TO THE SEAL.
PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

APPROVED	_____ COUNTY ENGINEER
RECOMMENDED	_____ ASSISTANT DIRECTOR
SUBMITTED	_____ HIGHWAY ENGINEERING DIVISION

	CHECK	Y.F.			
DESIGN	O.P.	DRAWN	O.P.		
DATE	9-3-2024	SHEET	1	OF	30

T:\TRANSPORTATION DESIGN\PROJECTS\TRAFFIC CALMING\SW SECTION\SW 109 AVE & SW 32 ST\CAUD\SW 109 AVE & SW 32 ST new design 6 29 24.dwg Mar 03, 2025 - 11:25am E327537

GENERAL NOTES:

1. ALL ELEVATIONS REFER TO THE MSL, 1929 NATIONAL GEODETIC VERTICAL DATUM (NGVD)
2. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE PERMITTING REQUIREMENTS OF MIAMI DADE COUNTY REGULATORY AND ECONOMIC RESOURCES AND THE MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS.
3. IT IS THE INTENT THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THERE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. CATCH BASINS, SEEPAGE DRAINS, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS TO BE ACCORDING TO THE DETAILS AND APPLICABLE REQUIREMENTS OF THE MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS.
5. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WITH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
7. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE; ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES; PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION, ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE ENGINEER AND THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
8. CONTRACTOR SHALL CONTACT THE SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES.
9. EXISTING TREES SHALL BE REMOVED ONLY IF REQUIRED FOR CONSTRUCTION. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE. THE CONTRACTOR IS ADVISED THAT A TREE PERMIT MAY BE REQUIRED FOR TREE REMOVAL. CONTRACTOR SHALL NOTIFY REGULATORY AND ECONOMIC RESOURCES DEPARTEMENT AND MUNICIPALITIES WITH JURIDICITION PRIOR TO REMOVING ANY TREES.
10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
11. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN PROJECT SPECIFICATION.
12. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES. WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE DETERMINED, ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY FOR PEDESTRIAN TRAFFIC.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
14. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
15. CAST IRON PRODUCTS: HEAVY-DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
16. STEEL GRATING AND COVERS: TRAFFIC CLASSIFICATION H-20 AASHTO H20: 16,000 LBS. OVER 8" X 20" AREA.
17. ALL STRUCTURES MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
18. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OUTLINED IN SECTION C2 AND SECTION R19 OF THE PUBLIC WORKS DEPARTMENT MANUAL. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNING REMOVED DURING CONSTRUCTION PERIOD.
20. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
21. TEMPORARY PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
22. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN MIAMI-DADE COUNTY PUBLIC WORKS MANUAL.
23. CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY - FRIDAY 7-9 A.M. AND 4-6 P.M.; NO INTERRUPTION TO TRAFFIC IS PERMITTED.
ALL OTHER TIMES:
A) MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN.
B) MAINTAIN ONE LANE IN EACH DIRECTION FOR TRAFFIC.
24. CONTRACTOR MUST PROVIDE FLASHER ARROW BOARD FOR ANY LANE THAT IS CLOSED OR DIVERTED.
25. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF THE DETOUR IN ACCORDANCE WITH SECTION 336.07 OF FLORIDA STATUTES.
26. COMPLETE AS-BUILT INFORMATION RELATIVE TO LOCATION AND DEPTH OF PIPES, MANHOLES, ETC. SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR. THREE (3) SETS LABELED "AS-BUILT" MUST BE SUBMITTED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, TO THE ENGINEER OF RECORD PRIOR TO FINAL ACCEPTANCE OF THE WORK.
27. IT IS RESPONSIBILITY OF THE CONTRACTOR TO SELECT AND OBTAIN THE APPROPRIATE PERMISSION FROM MIAMI-DADE COUNTY OR APPLICABLE AGENCY THAT HAS JURISDICTION ON THE "PROPOSED" STAGING AREAS.
28. DRAINAGE/UTILITY TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT. A TEMPORARY COVER WITH A CAPACITY OF H-20 LOADING SHALL BE PLACED AS DIRECTED BY THE ENGINEER AT NO EXTRA COST TO MIAMI-DADE COUNTY.
29. PROVIDE FLOWABLE FILL OVER PIPE AS COVER WHERE MINIMUM PIPE COVER OF 2 FEET CANNOT BE ACCOMPLISHED UNDER PAVED AREAS. HOWEVER, THE COVER WITH FLOWABLE FILL SHALL BE NO LESS THAN 12 INCHES.

30. ALL STATIONS AND OFFSETS REFER TO [CENTERLINE]/ [BASELINE] OF CONSTRUCTION, UNLESS OTHERWISE STATED.
31. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE EPA AND THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES).
32. MIAMI-DADE WATER AND SEWER DEPARTMENT REQUIRES THAT ACCESS TO ALL WATER AND SEWER VALVES, SANITARY MANHOLES, AND OTHER CONTROL MECHANISMS BE MAINTAINED THROUGHOUT CONSTRUCTION IN THE EVENT OF AN EMERGENCY TO ENSURE THE PUBLIC HEALTH AND SAFETY. COVERING VALVE BOXES AND MANHOLES CAN BE CONSIDERED UNAUTHORIZED CONSTRUCTION OF AND TAMPERING WITH DEPARTMENT UTILITIES. ALL REQUESTS FOR UTILITY ADJUSTMENTS MUST BE MADE IN WRITING AT LEAST TWO (2) WEEKS IN ADVANCE. FOR MANHOLE AND VALVES, CONTACT UTILITY COORDINATOR PATRICK CHONG AT 786-268-5255. THE DEPARTMENT WILL MAKE ONE FINAL AND PERMANENT ADJUSTMENT AT NO COST TO THE REQUESTING AGENCY. FOR THE ADJUSTMENT OF WATER METERS, CONTACT THE CHIEF OF METER OPERATIONS AND MAINTENANCE: 786-268-5469. FOR ANY FIRE HYDRANTS THAT ARE DAMAGED OR BUMPED DURING CONSTRUCTION, CONTACT THE MDWASD HYDRANT SHOP AT 305-552-4926. BEFORE POURING CONCRETE FOR THE SIDEWALK. IN THE EVENT OF A WATER OR SEWER EMERGENCY, WASD EMERGENCY NUMBER 305-552-8901. THIS LINE IS OPEN 24 HOURS, 7 DAYS A WEEK.
33. THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING, AND COMPACTING AROUND THESE SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.
34. THE CONTRACTOR SHOULD TAKE SPECIAL NOTE OF SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, PUBLIC OR PRIVATE, DURING THE EXCAVATION OF SUBSOIL MATERIAL AND EXFILTRATION TRENCH, OR FILLING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
35. IF SHEETING, SHORING OR DEWATERING, INCLUDING WELL POINTS ARE NECESSARY, THE CONTRACTOR MUST MONITOR AND CONTROL ALL WORK THAT MAY CAUSE CRACKING TO ANY ADJACENT BUILDING, STRUCTURE, OR PROPERTY AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY THESE OPERATIONS. COST OF SHEETING, SHORING, OR DEWATERING, SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE.
36. ALL DITCH EXCAVATIONS SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE PROVISIONS OF THE TRENCH SAFETY ACT.
37. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE ENGINEER WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ENGINEER.
38. THE CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK.
39. WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL.
40. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY OBVIOUS STRUCTURAL DEFICIENCIES.
41. CLEAN EXIST. DRAINAGE STRUCTURES.
42. REGRADE AND/OR OVERBUILD AS NECESSARY TO DRAIN PROPERLY.
43. MILL EXISTING ASPHALT PAVEMENT (1.0" AVG. DEPTH). RESURFACE USING FRICTION COURSE FC-9.5 (1.0")
44. PROPOSED ISLAND RADII IS 2.0' UNLESS NOTICED OTHERWISE.
45. WHERE CONNECTIONS TO EXISTING SIDEWALKS AND DRIVEWAYS ARE NOT INDICATED ON PLANS, PROPER CONNECTIONS ARE TO BE MADE AS DIRECTED BY THE ENGINEER. DROP CURB AND DRIVEWAY CONNECTIONS SHALL BE PROVIDED FOR ACCESS TO ALL PRIVATE PROPERTIES ADJACENT TO THE PROJECT. PAYMENT SHALL BE INCLUDED IN THE COST OF RELATED BID ITEMS.
46. CONTRACTOR TO INSTALL ½" PERFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS IS IMMEDIATELY ADJACENT TO EXISTING CONCRETE SLAB AND/OR BUILDING.
47. THE SIDEWALK AT DRIVEWAY TURNOUTS SHALL BE 6"CONCRETE.
48. ALL BUS STOP SIGNS TO BE FURNISHED BY MIAMI-DADE TRANSPORTATION AND PUBLIC WORKS DEPARTMENT. ENGINEER TO CONTACT MIAMI-DADE COUNTY TRANSPORTATION AND PUBLIC WORKS DEPARTMENT AT (305) 637-3753 ONE (1) WEEK PRIOR TO POURING SIDEWALKS AND COORDINATE THE REMOVAL AND REPLACEMENT OF BUS STOP SIGNS AND BENCHES.
49. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH BIDS WILL BE BASED.
50. ANY SURVEY MONUMENT, BENCH MARK, ETC., FOUND DURING CONSTRUCTION ACTIVITIES ARE TO BE RESTORED TO IT IS ORIGINAL LOCATION AND COORDINATES AS DEPICTED IN COUNTY RECORDS PLAT AND BOOK. RESTORATION WILL BE AT NO ADDITIONAL COST AND MUST BE SHOWN ON AS-BUILT PLANS.
51. FOR THE INSTALLATION OF SOD IN SWALE AREAS ADJACENT TO ROADWAYS, SIDEWALKS, DRIVEWAY APPROACHES OR ANY OTHER PAVED SURFACES, THE SWALE MUST BE RESTORED TO FORM A "V" SHAPE AS PER THE DETAILS INCLUDED IN THE MIAMI DADE COUNTY PUBLIC WORKS MANUAL. SPECIFICALLY, THE ELEVATION OF THE TOP OF THE SOD MUST MATCH THE ABUTTING AREAS (EDGE OF PAVEMENT, SIDEWALK OR DRIVEWAY APPROACH) AND THE CENTERLINE OF THE SWALE SHALL BE ON AVERAGE 3 INCHES BELOW THE ROADWAY EDGE OF PAVEMENT ELEVATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
52. CONTRACTOR SHALL CONTACT TRANSIT DEPARTMENT FOR BUS STOP RELOCATION (RAONEL RODRIGUEZ - 7864695328 RAONEL.RODRIGUEZ@MIAMIDADE.GOV) AT LEAST 30 DAYS PRIOR TO PERFORMING ANY WORK.

R E V I S I O N S							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

MIAMI-DADE COUNTY
HIGHWAY DIVISION

NAME	DATE	NAME	DATE
DESIGNED BY GT		DRAWN BY GT	9-19-2023
CHECKED BY YF		CHECKED BY YF	
SUPERVISED BY: YANEX FERNANDEZ			

MIAMI-DADE
COUNTY

DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK, CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

GENERAL NOTES

T:\TRANSPORTATION DESIGN\PROJECTS\TRAFFIC CALMING\SW SECTION\SW 109 AVE & SW 32 ST\CAD\SW 109 AVE & SW 32 ST new design 6 29 24.dwg Mar 03, 2025 - 11:25am E327537

SUMMARY OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
102-1A	Maintenance Of Traffic	LS	1
102-30-13	Temporary Highway Lighting	LS	1
102-74-2	BARRICADES (TEMPRORARY, TYPE III, 6")	E/DAY	4,320
102-91-1A	PAVEMENT MARKING TEMPORARY (Solid) (Any width) (Yellow or White) (Paint)	L.F.	5,555
104-18	Inlet Protection System	EA	13
110-1-1B	CLEARING AND GRUBBING .5%	LS	1
110-4-1-1	REMOVAL AND DISPOSAL OF EXISTING CURB AND GUTTER	L.F.	66
110-4-10B	REMOVE AND DISPOSE EXISTING SIDEWALK	S.Y.	95
120-1	REGULAR EXCAVATION	C.Y.	740
160-4	TYPE "B" STABILIZATION (12" Thick) (Min. C.B.R. 30)	S.Y.	1,151
162-5	FINISH SOIL LAYER (Landscaping)	C.Y.	560
200-1-10	LIMEROCK BASE (8" Thick, Primed)	S.Y.	1,151
327-70	MILLING EXISTING PAVEMENT [(1")](Payment for greater cuts will be paid proportionally)]	S.Y.	3,395
334-2-13-1	Hot Mix Asphalt, Traffic C, SP-9.5	TON	115
337-8-42	Hot Mix Asphalt Friction Course, Traffic C, FC-9.5, PG 76-22	TON	211
350-30-13	Concrete Pavement for Circle Aprom 12" Depth	S.Y.	105
425-1	INLET [(Swale) (3 foot inside dimension, circular or square)]	EA	2
425-1-610	INLET SWALE [(TYPE P-10)(42" Inside dimension, circular or square)]	EA	5
425-1-907	POLLUTION RETARDANT BAFFLE (With neoprene gasket at all contact edges)	EA	4
425-5	ADJUST MANHOLE(This item is contingent upon field conditions and may be increased, decreased or eliminated by the Engineer)	EA	6
425-6	ADJUST EXISTING VALVE BOXES (MIAMI DADE COUNTY) (This item is contingent upon field conditions and may be increased, decreased or eliminated by the Engineer)	EA	6
425-82	MODIFY STRUCTURE-Cut to enlarge opening as needed in order to accommodate pipe due to utility conflict(s), brick and mortar as needed.	EA	5
430-171-115	PIPE CULVERT - 15" Diameter	L.F.	115
430-171-124	PIPE CULVERT 24" DIAMETER	L.F.	22
443-70-4-3	FRENCH DRAIN (24" Diameter perforated pipe; trench depth 15 ft BLS)	L.F.	275
520-2	CONCRETE CURB AND/OR GUTTER(Any type , including base preparation)	L.F.	3,335
522-1(1)	CONCRETE SIDEWALK [4" THICK, 3,000 P.S.I. concrete at 28 days (includes the cost of pedestrian ramps and sidewalks curbs)	S.Y.	95
522-2	CONCRETE SIDEWALK (6" THICK, 3,000 P.S.I. concrete at 28 days (includes pedestrian ramps and sidewalks curbs)	S.Y.	130
527-2	DETECTABLE WARNING ON WALKING SURFACE	S.F.	265
575-1-1	SODDING (Pensacola Bahia or match existing) (includes watering)	S.Y.	305
580-336-1	TREES TRIMMING	EA	6
580-332-1B	TREES REMOVAL (Cut and Remove)	E.A	9
700-40-01	ROADSIDE SIGNS {(SINGLE POST) (LESS THAN 12 S.F.)}	AS.	35
700-46-22	RESET EXISTING POST AND SIGN	EA	4
700-48-18	SIGN PANEL (LESS THAN 15 SF.)	EA	20
700-48-60A	REMOVE EXISTING SIGNS & POSTS	AS.	4
706-1-12	REFLECTIVE PAVEMENT MARKERS (class B, mono or bi-directional, all colors)	EA	305
710-11-160	PAINTED PAVEMENT MARKINGS (Standard) (White) (Message)	EA	20
711-11-121	THERMOPLASTIC (White) (Solid) (6")	L.F.	2,530
711-11-123	THERMOPLASTIC (White) (Solid) (12")	L.F.	350
711-11-125	THERMOPLASTIC (White) (Solid) (24")	L.F.	270
711-11-160	THERMOPLASTIC (White) (Message)	EA	20
711-11-221	THERMOPLASTIC (Yellow) (Solid) (6")	L.F.	2,655
711-11-224	THERMOPLASTIC (Yellow) (Solid) (18")	L.F.	110

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

MIAMI-DADE COUNTY
HIGHWAY DIVISION

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY	GT		CHECKED BY	GT	9-19-2023
	YF			YF	
SUPERVISED BY: YANEX FERNANDEZ					




MIAMI-DADE
COUNTY

DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARY, CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

GENERAL NOTES:

- REGRADE AND/OR OVERBUILD AS NECESSARY TO DRAIN PROPERLY.
- CLEAN EXIST. DRAINAGE STRUCTURES.
- MILL EXISTING ASPHALT PAVEMENT (1.0" AVG. DEPTH)
- RESURFACE USING FRICTION COURSE FC-9.5 (1.0")
- PROPOSED ISLAND RADII IS 2.0' U.N.O.

LEGEND:

-  DENOTES NEW CONSTRUCTION
 - 12" STABILIZED SUB-GRADE LBR40
 - LIMEROCK BASE 8" THICK (PRIMED)
 - TYPE SP STRUCTURAL COURSE (SP-9.5) (2" THICK)
 - FRICTION COURSE FC-9.5 (1" THICK)
-  DENOTES SODDED AREA TO MATCH EXISTING
-  REMOVE AND/OR RELOCATE EXIST. TREE

MATCH LINE STA 15+15.00

END CONST. TYPE F
C&G. MATCH EXIST.
PAVEMENT
+24.54'
10.71'(L)

END PROJECT
END CONSTRUCTION
STA:16+30.00
MATCH EXIST. ELEV.
LIMITS OF MILLING &
RESURFACING

END CONST. TYPE F
C&G. MATCH EXIST.
PAVEMENT
+24.47'
13.54'(R)

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND
PUBLIC WORKS HIGHWAY DIVISION
SW 109 AVE. & SW 32 ST.
PROJECT NO. 20220058 SHEET 4 OF 30

0 20 40
SCALE-IN-FOOT

BEGIN PROJECT
BEGIN CONSTRUCTION
STA:12+33.95
MATCH EXIST. ELEV.
LIMITS OF MILLING &
RESURFACING

BEGIN CONST. TYPE F
C&G. MATCH EXIST.
PAVEMENT & ELEV.
+38.90
11.93'(L)

CONST. 5' WIDE CONC.
CONNECTOR W/ DWS
CONST. 10' WIDE PED.
REFUGE W/ DWS.

RELOCATE EXIST. BUS STOP
BY DTPW BUS CONTRACTOR

REMOVE
EXIST. C&G

CONST. 10' WIDE PED.
REFUGE W/ DWS.

CONST. 5' WIDE CONC.
LANDING W/ DWS

+93.12
15.88'(L)
EL.7.90

BEGIN CONST. SWK.
MATCH EXIST. ELEV.
+92.9

PROP. 8.25'
WIDE COLORED
CONCRETE
PAVEMENT

CONNECT TO EXIST.
SWK. MATCH EXIST.
SWK. ELEV. (TYP)

CONST. CR-C MOD.
RAMP W/ DWS AS
PER MDC ARTICLE 527

+92.01
16.06'(R)
EL.7.85

RELOCATE THREE (3)
PROP. PALM TREES

+56.25
17.47'(L)
EL.8.12

CONST. 5' WIDE CONC.
CONNECTOR W/ DWS
CONST. 10' WIDE PED.
REFUGE W/ DWS.

END CONST. TYPE F
C&G. MATCH EXIST.
PAVEMENT & ELEV.
+55.77
13.26'(L)

EL.7.75

EL.7.70

EL.7.95

EL.7.75

EL.7.75

EL.7.70

EL.7.70

EL.7.70

EL.7.70

BEGIN CONST. TYPE F
C&G. MATCH EXIST.
PAVEMENT & ELEV.
+38.99
12.05'(R)

RECONSTRUCT EXIST.
BUS STOP BY DTPW
BUS CONTRACTOR

CONST. 5' WIDE
CONC. CONNECTOR
W/ DWS

BEGIN CONST. SWK.
MATCH EXIST. ELEV.
STA:14+48.9

EXIST. WM TO BE
RELOCATED BY OTHERS

END CONST. SWK.
MATCH EXIST. ELEV.
STA:12+65.6

CONST. 10' WIDE PED.
REFUGE W/ DWS.

EL.7.40

EL.7.40

CONST. CR-C MOD. RAMP W/
DWS AS PER MDC ARTICLE 527

+76.42
15.76'(R)
EL.7.60

CONST. 5' WIDE CONC.
CONNECTOR W/ DWS

CONSTRUCT TYPE D CURB
ON MEDIAN ISLAND (TYP.)

END CONST. TYPE F
C&G. MATCH EXIST.
PAVEMENT & ELEV.
+98.64
10.70'(R)

END PROJECT
END CONSTRUCTION
STA:18+03.6
MATCH EXIST. ELEV.
LIMITS OF MILLING &
RESURFACING

MATCH LINE STA 11+40.00

MATCH LINE STA 11+40.00

35 MPH
(DESIGN SPEED)

REFLECTIVE YELLOW PAINT

6" THERMOPLASTIC YELLOW

BI-DIRECTIONAL YELLOW

R.P.M.'s @ 12" O.C.

EOP

OVERBUILD AS
NECESSARY TO
HIGHER ELEVATION

TYPE RA CURB. 3" DROP FROM
TOP OF CURB TO EOP

1% TO 2%

VARIES
SODDING

REMOVE ASPHALT &
BASE FOR LANDSCAPE

TYPE D CURB

12" COLORED CONCRETE
PAVEMENT
AMS-STD-595-21105 RED

12" STABILIZED SUBGRADE
MINIMUM CBR 30

-THE R.P.M.'s MOUNTED ON THE CURB SHALL BE PLACED
FACING THE ONCOMING TRAFFIC FROM THE APPROACHES.
-THE R.P.M.'s MOUNTED ON THE CURB SHALL BE PLACED
FACING THE ONCOMING TRAFFIC WITHIN THE CIRCLE.

CROSS SECTION OF CIRCLE
N.T.S.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

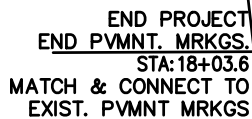
MIAMI-DADE COUNTY
HIGHWAY DIVISION

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
GT			GT		9-19-2023
CHECKED BY	NAME	DATE	CHECKED BY	NAME	DATE
YF			YF		
SUPERVISED BY: YANEX FERNANDEZ					

DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY DIVISION
MIAMI-DADE
COUNTY
STEPHEN P. CLARK, CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

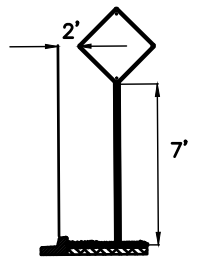
ROADWAY PLAN

T:\TRANSPORTATION DESIGN\PROJECTS\TRAFFIC CALMING\SW SECTION\SW 109 AVE & SW 32 ST\CAVD\SW 109 AVE & SW 32 ST new design 6 29 24.dwg Mar 03, 2025 - 11:25am E327537

PAVEMENT MARKINGS PLAN

LEGEND

- 1 PROP. W11-2 & W16-7PL
- 2 PROP. W11-2 & W16-7PR
- 3 PROP. R6-4 (4 REQD.)

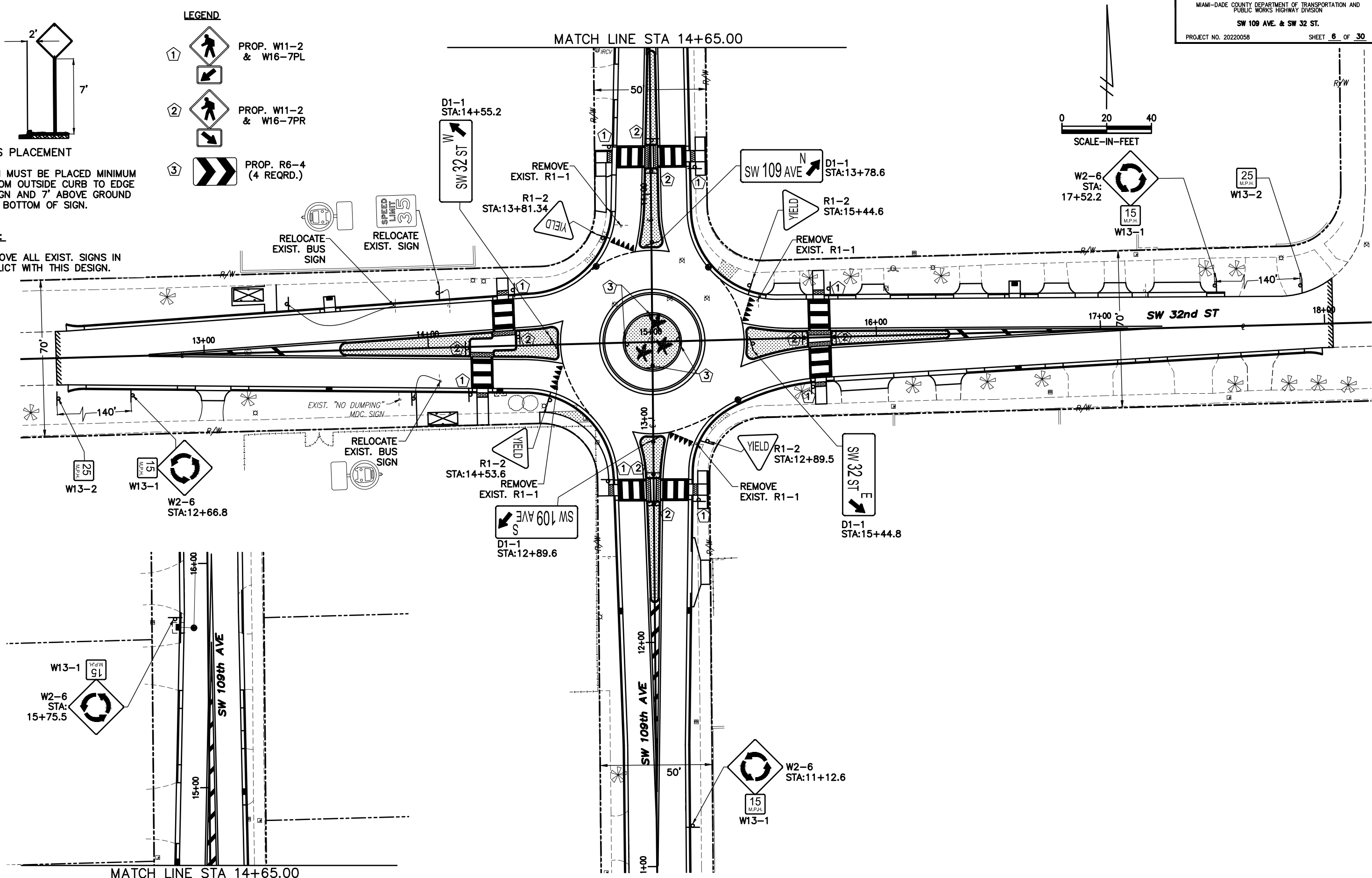


SIGNS PLACEMENT

-SIGN MUST BE PLACED MINIMUM 2' FROM OUTSIDE CURB TO EDGE OF SIGN AND 7' ABOVE GROUND FROM BOTTOM OF SIGN.

NOTE:

-REMOVE ALL EXIST. SIGNS IN CONFLICT WITH THIS DESIGN.



T:\TRANSPORTATION DESIGN\PROJECTS\TRAFFIC CALMING\SW SECTION\SW 109 AVE & SW 32 ST\CAD\SW 109 AVE & SW 32 ST new design 6 29 24.dwg Mar 03, 2025 - 11:25am E327537

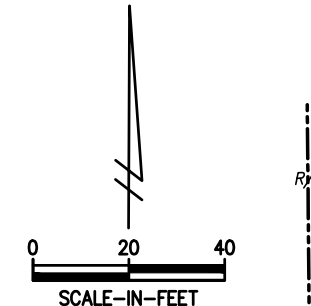
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MIAMI-DADE COUNTY
HIGHWAY DIVISION

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
GT	GT		GT	GT	
CHECKED BY	YF		CHECKED BY	YF	
SUPERVISED BY: YANEX FERNANDEZ					

MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARY, CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

SIGNING PLAN



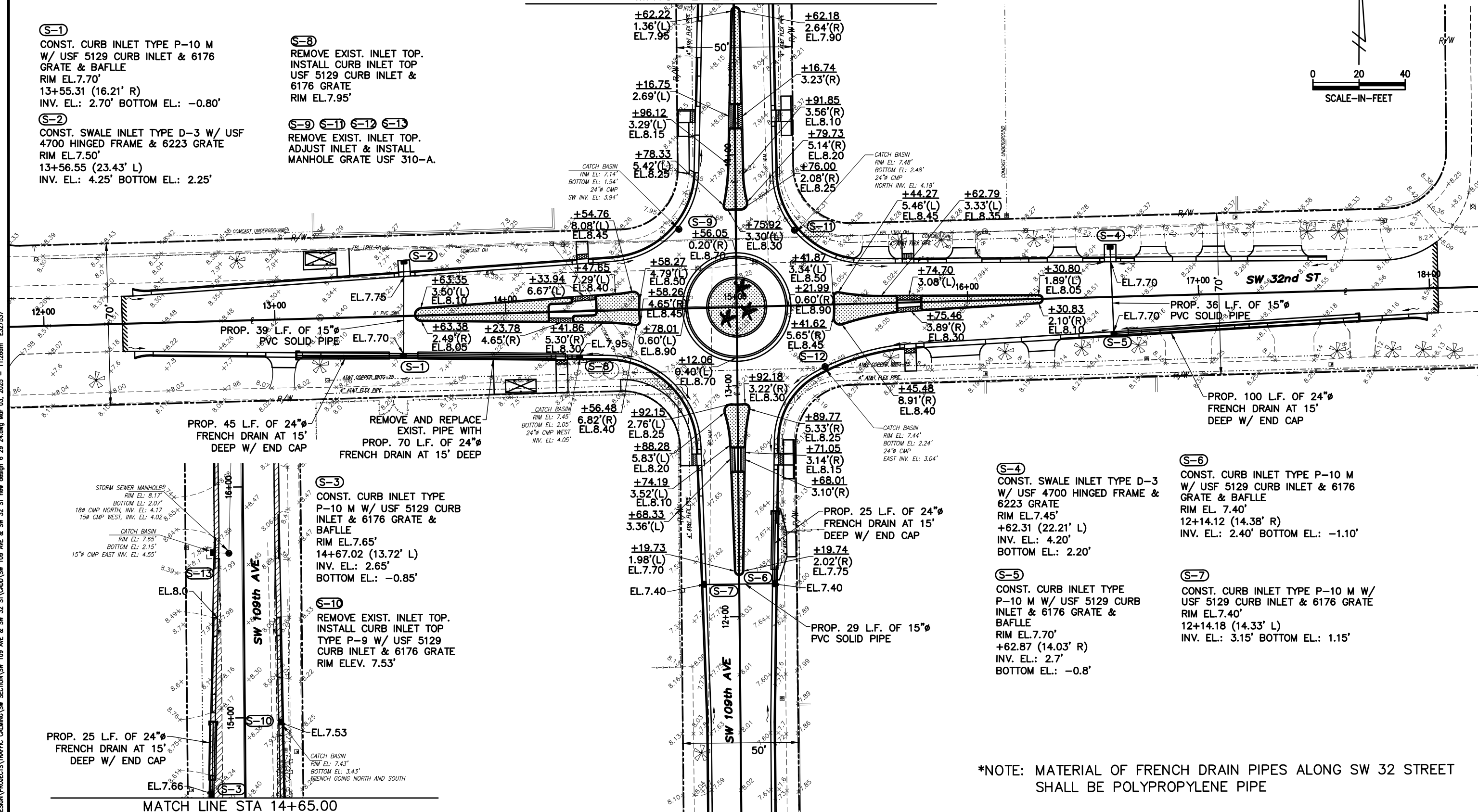
MATCH LINE STA 14+65.00

(S-1)
CONST. CURB INLET TYPE P-10 M
W/ USF 5129 CURB INLET & 6176
GRATE & BAFFLE
RIM EL.7.70'
13+55.31 (16.21' R)
INV. EL.: 2.70' BOTTOM EL.: -0.80'

(S-2)
CONST. SWALE INLET TYPE D-3 W/ USF
4700 HINGED FRAME & 6223 GRATE
RIM EL.7.50'
13+56.55 (23.43' L)
INV. EL.: 4.25' BOTTOM EL.: 2.25'

(S-8)
REMOVE EXIST. INLET TOP.
INSTALL CURB INLET TOP
USF 5129 CURB INLET &
6176 GRATE
RIM EL.7.95'

(S-9) (S-11) (S-12) (S-13)
REMOVE EXIST. INLET TOP.
ADJUST INLET & INSTALL
MANHOLE GRATE USF 310-A.



*NOTE: MATERIAL OF FRENCH DRAIN PIPES ALONG SW 32 STREET
SHALL BE POLYPROPYLENE PIPE

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MIAMI-DADE COUNTY
HIGHWAY DIVISION

NAME	DATE	NAME	DATE
DESIGNED BY	GT	DRAWN BY	GT
CHECKED BY	YF	CHECKED BY	YF
SUPERVISED BY	YANEX FERNANDEZ		

NAME	DATE
DESIGNED BY	GT
DRAWN BY	GT
CHECKED BY	YF
SUPERVISED BY	YANEX FERNANDEZ

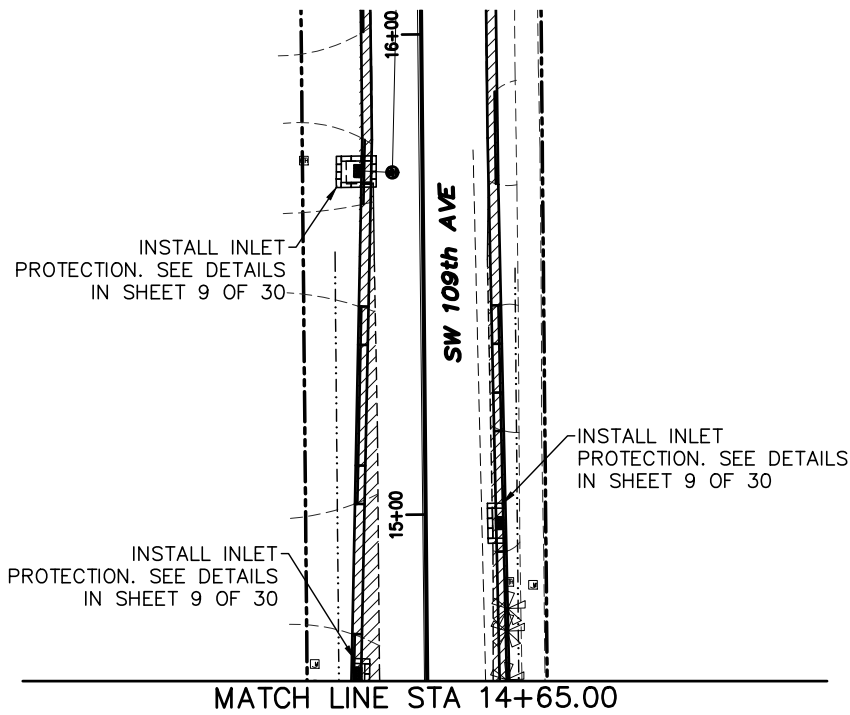
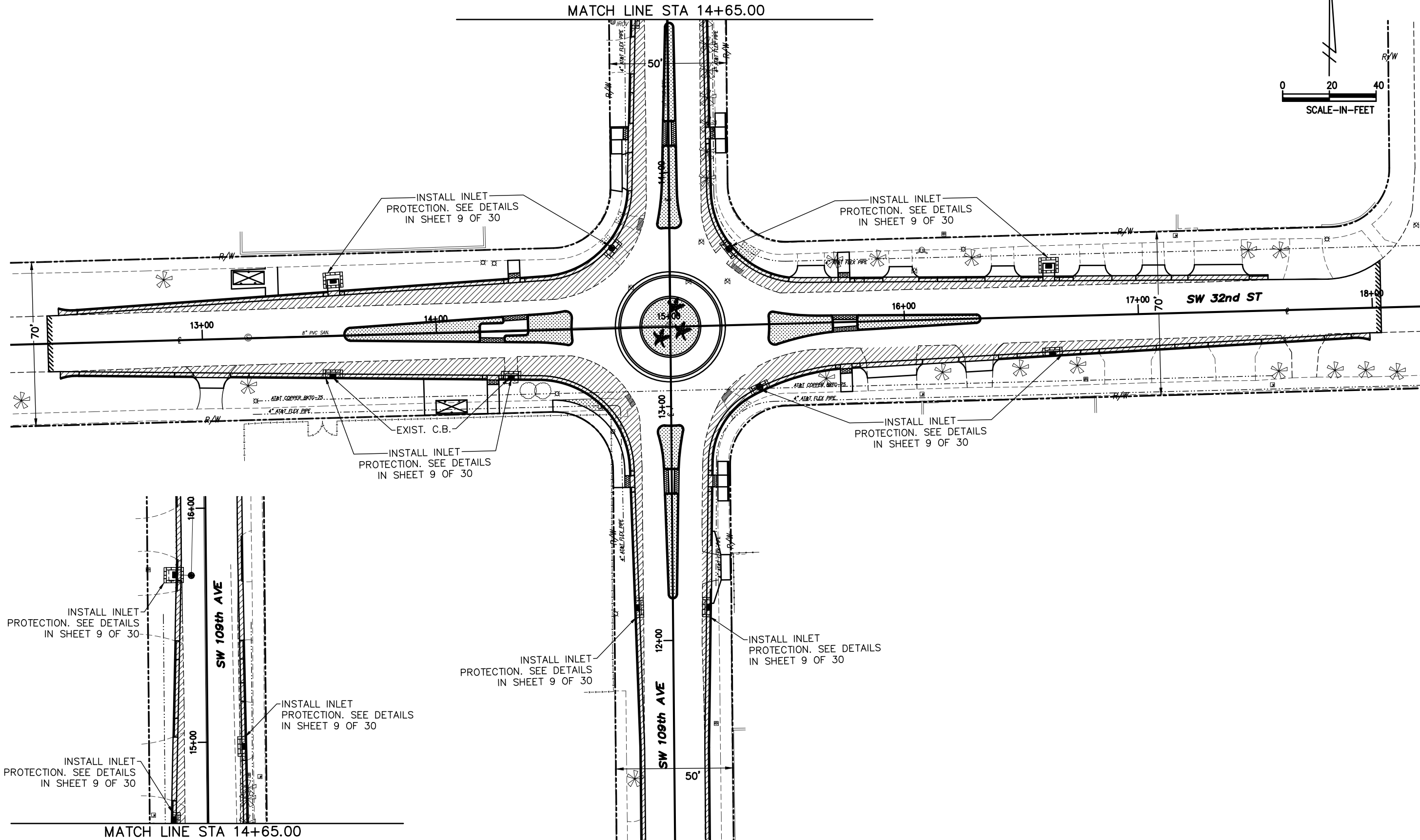
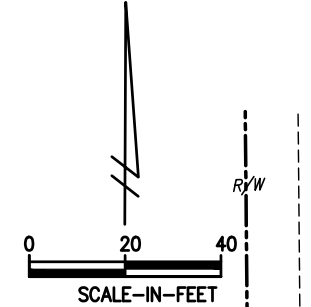
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY DIVISION
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GRADING AND DRAINAGE
DETAILS PLAN

TEMPORARY EROSION CONTROL LEGEND:



PROP. ROCK BAGS
SEE INLET PROTECTION
SYSTEM DETAILS



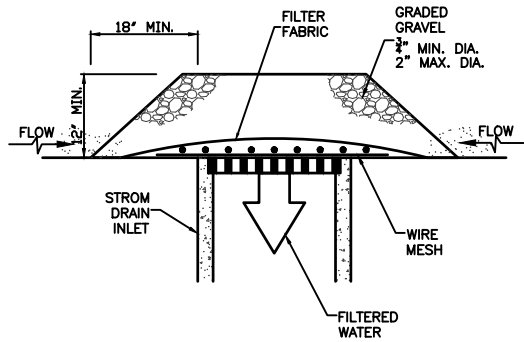
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MIAMI-DADE COUNTY
HIGHWAY DIVISION

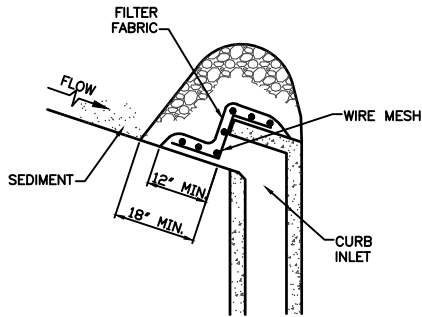
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	YF			YF	
SUPERVISED BY: YANEX FERNANDEZ					

MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
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STORMWATER POLLUTION
PREVENTION PLAN



DROP INLET PROTECTION-GRAVEL



CURB INLET PROTECTION-GRAVEL

GRAVEL APPLICATIONS (TYP.)
OR APPROVED ALTERNATIVE

NOTES FOR INLET PROTECTION GRAVEL:

1- INSTALLATION/APPLICATION CRITERIA:

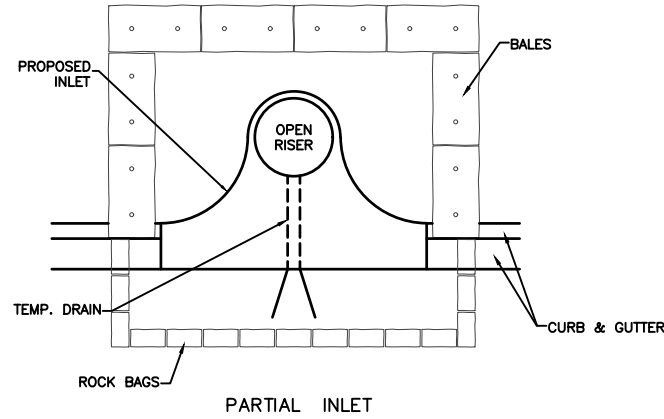
- PLACE WIRE MESH (WITH 1/2 INCH OPENINGS) OVER THE INLET GRATE EXTENDING ONE FOOT PAST THE GRATE IN ALL DIRECTIONS.
- PLACE FILTER FABRIC OVER THE MESH. FILTER FABRIC SHOULD BE SELECTED BASED ON SOIL TYPE.
- PLACE GRADED GRAVEL, TO A MINIMUM DEPTH OF 12 INCHES, OVER THE FILTER FABRIC AND EXTENDING 18 INCHES PAST THE GRATE IN ALL DIRECTIONS.

2- MAINTENANCE:

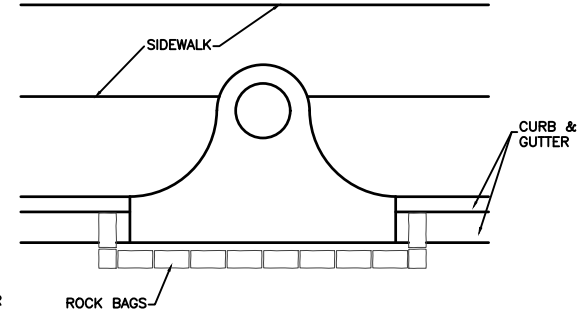
- INSPECT INLET PROTECTION AFTER EVERY LARGE STORM EVENT AND AT A MINIMUM OF ONCE MONTHLY.
- REMOVE SEDIMENT ACCUMULATED WHEN IT REACHES 4 INCHES IN DEPTH.
- REPLACE FILTER FABRIC AND CLEAN OR REPLACE GRAVEL IF CLOGGING IS APPARENT.

3- LIMITATIONS:

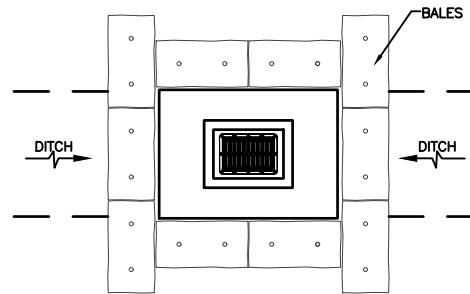
- RECOMMENDED FOR MAXIMUM DRAINAGE AREA OF ONE ACRE.
- EXCESS FLOWS MAY BYPASS THE INLET REQUIRING DOWN GRADIENT CONTROLS.
- PONDING WILL OCCUR AT INLET.



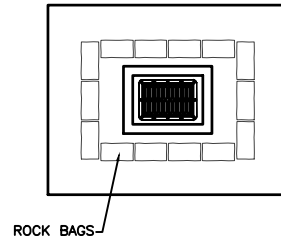
PARTIAL INLET



COMPLETED INLET



DITCH BOTTOM INLET



SWALE INLET

PROTECTION ALONG INLETS WITH ROCK BAGS BALES
OR APPROVED ALTERNATIVES

NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS:

- 1- TYPE I AND II SYNTHETIC BARRIER SHOULD BE SPACED IN ACCORDANCE WITH CHART 1, SHEET 1 OF 2010 FDOT DESIGN STANDARDS INDEX 102.
- 2- BALES SHALL BE ANCHORED WITH TWO (2) 1"x2" (or 1" dia.) x 4' WOOD STAKES. STAKES OF OTHER MATERIAL OR SHAPE PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER. STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
- 3- RAILS AND POSTS SHALL BE 2"x4" WOOD. OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAYBE USED IF APPROVED BY THE ENGINEER.
- 4- ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER.
- 5- WHERE USED IN CONJUNCTION WITH SILT FENCE, BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.

INLET PROTECTION SYSTEM (TYP.)
OR APPROVED ALTERNATIVE

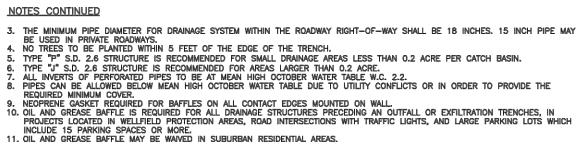
REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

MIAMI-DADE COUNTY
HIGHWAY DIVISION

NAME	DATE	NAME	DATE
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SUPERVISED BY: YANEX FERNANDEZ			



INLET PROTECTION SYSTEM
DETAILS



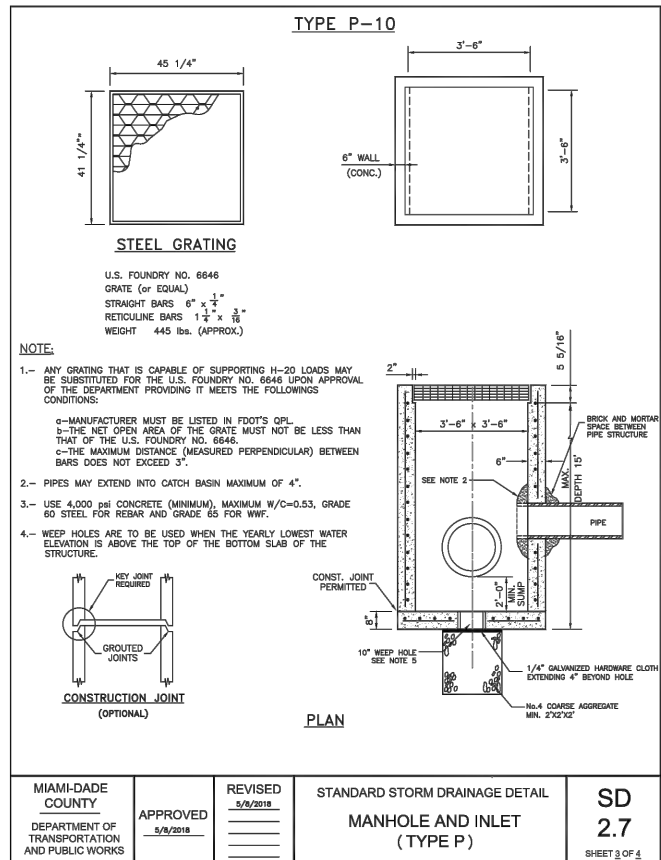
CONTRACTOR HAS THE OPTION OF INSTALLING ANY PIPE MEETING THE REQUIREMENTS OF SECTION 443-2 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS LONG AS THE MANUFACTURER IS LISTED, AT THE TIME OF PIPE INSTALLATION, IN FDOT'S LIST OF PRODUCERS WITH ACCEPTED QUALITY CONTROL PROGRAMS. PIPES WITH LESS THAN A 100-YEAR CERTIFICATION CANNOT BE USED ON SECTION LINE, HALF SECTION LINE, COLLECTOR ROADWAYS, AND ARTERIALS. 50-YEAR PIPE CERTIFICATION REQUIRED FOR ALL OTHER MINOR/LOCAL ROADWAYS.

NOTE:

PERFORATIONS SHALL BE UNIFORMLY SPACED AROUND THE FULL PERIPHERY OF THE PIPE TO WITHIN 4" OF EACH END OF EACH LENGTH OF PIPE. THE NUMBER OF PERFORATIONS PER LINEAR FOOT OF PIPE AND THE DIAMETER OF THE PERFORATIONS SHALL BE AS SHOWN ON THE ABOVE TABLE.

SECTION

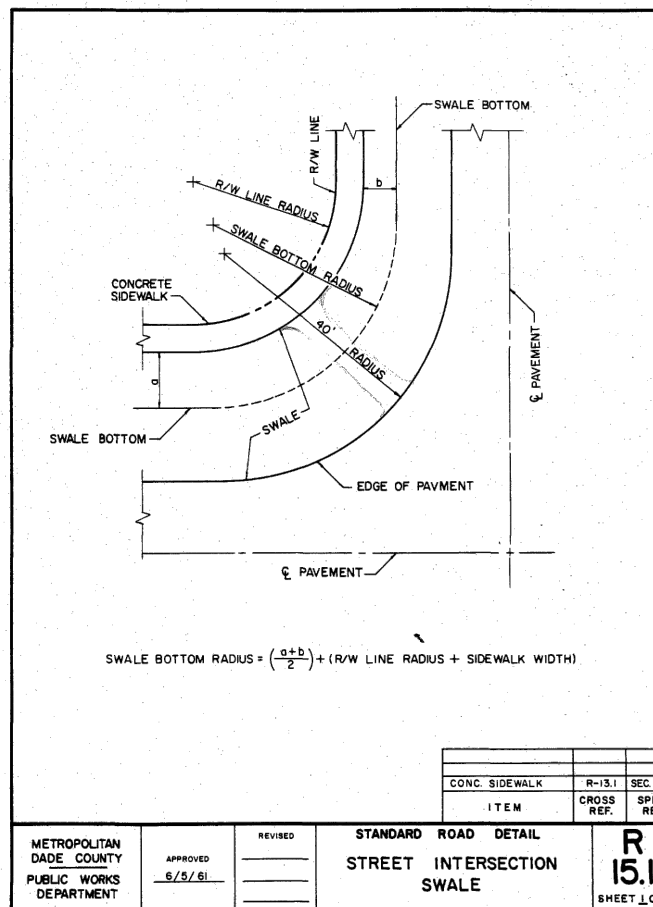
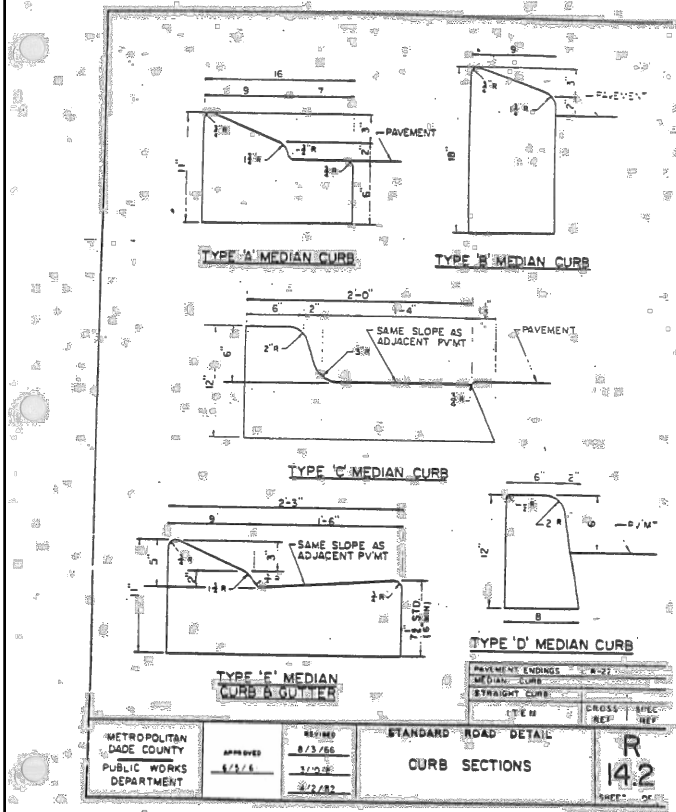
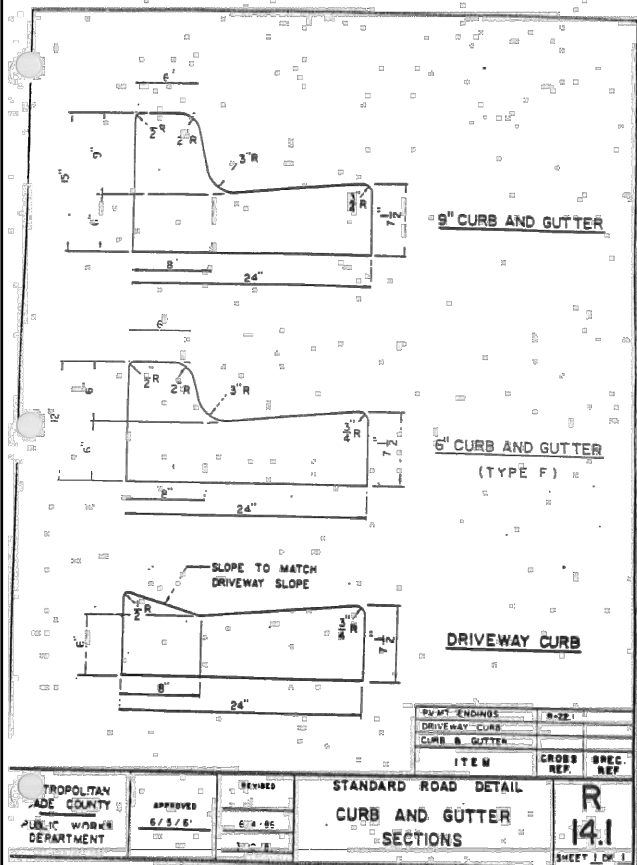
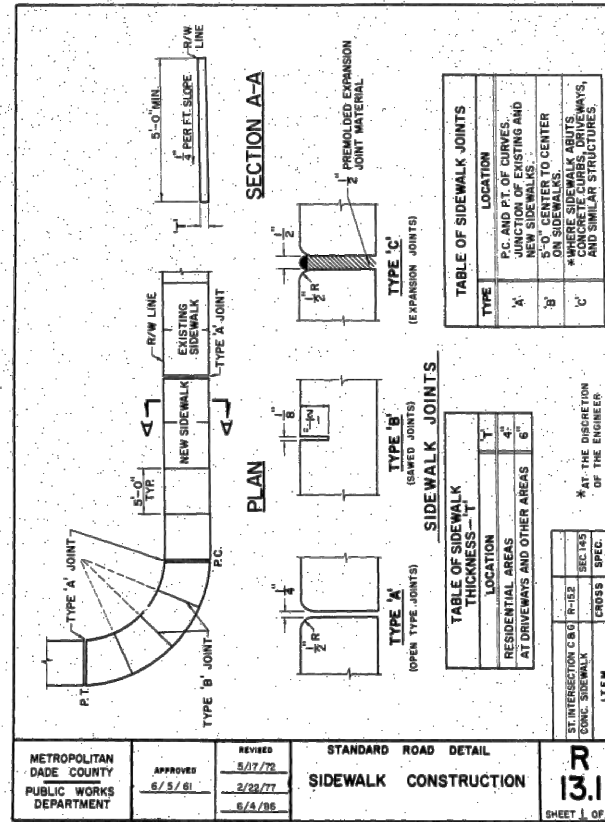
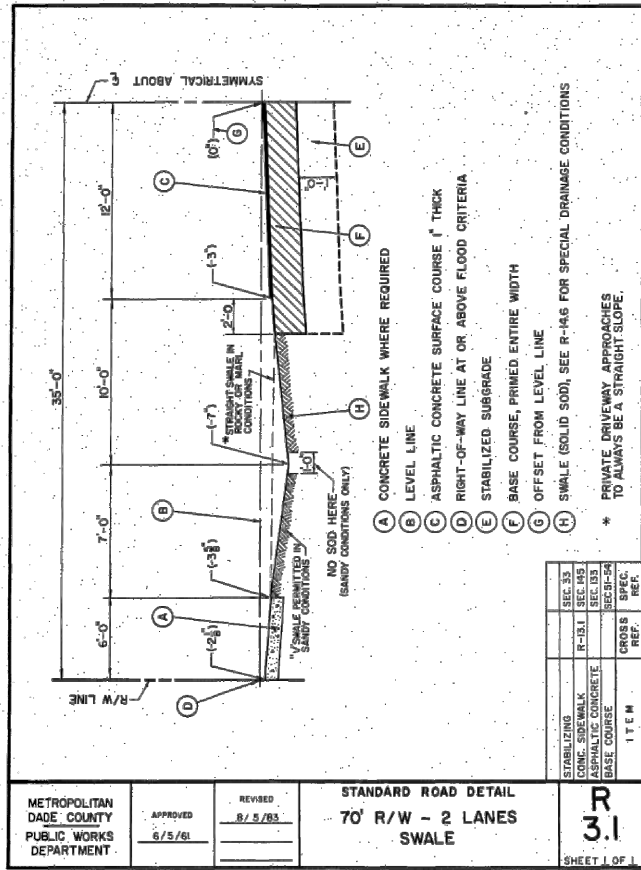
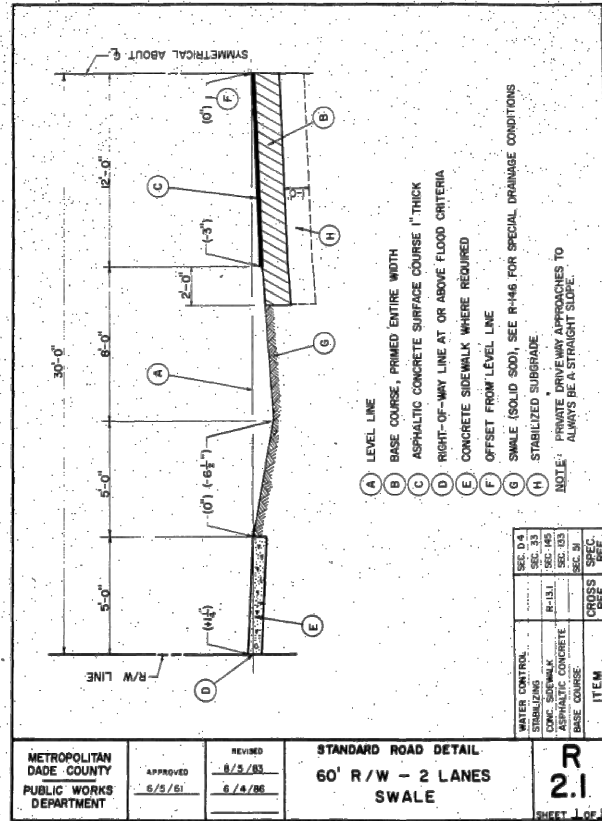
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CAST TOP SLAB TO FIT WALL USED.	1	PC
2	PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4".	1	PC
3	USE 4,000 PSI CONCRETE, (MINIMUM), MAXIMUM W/C=0.53, GRAD 60 STEEL FOR REBAR AND GRAD 65 FOR W.W.	1	PC
4	A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.	1	PC
5	WEEP HOLES ARE TO BE USED WHEN THE YEARLY LOWEST WATER ELEVATION IS ABOVE THE TOP OF THE BOTTOM SLAB OF THE STRUCTURE.	1	PC



ROUND STRUCTURE									
Standard Detail	Dia. (ft) Min.	Dia. (ft) Max.	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.7	3.5	4.0	0.0 - 5.0	6.0	8 x 8 W20 @ #4@10"E.W.	8.0	#4@7" E.W.	8.0	#4@10" E.W.
2.7	3.5	4.0	5.1 - 10.0	6.0	8 x 8 W20 @ #4@10"E.W.	8.0	#4@6" E.W.	8.0	#4@10" E.W.
2.7	3.5	4.0	10.1 - 15.0	6.0	8 x 8 W20 @ #4@10"E.W.	8.0	#4@6.5" E.W.	8.0	#4@10" E.W.

[illegible]

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MIAMI-DADE COUNTY
HIGHWAY DIVISION

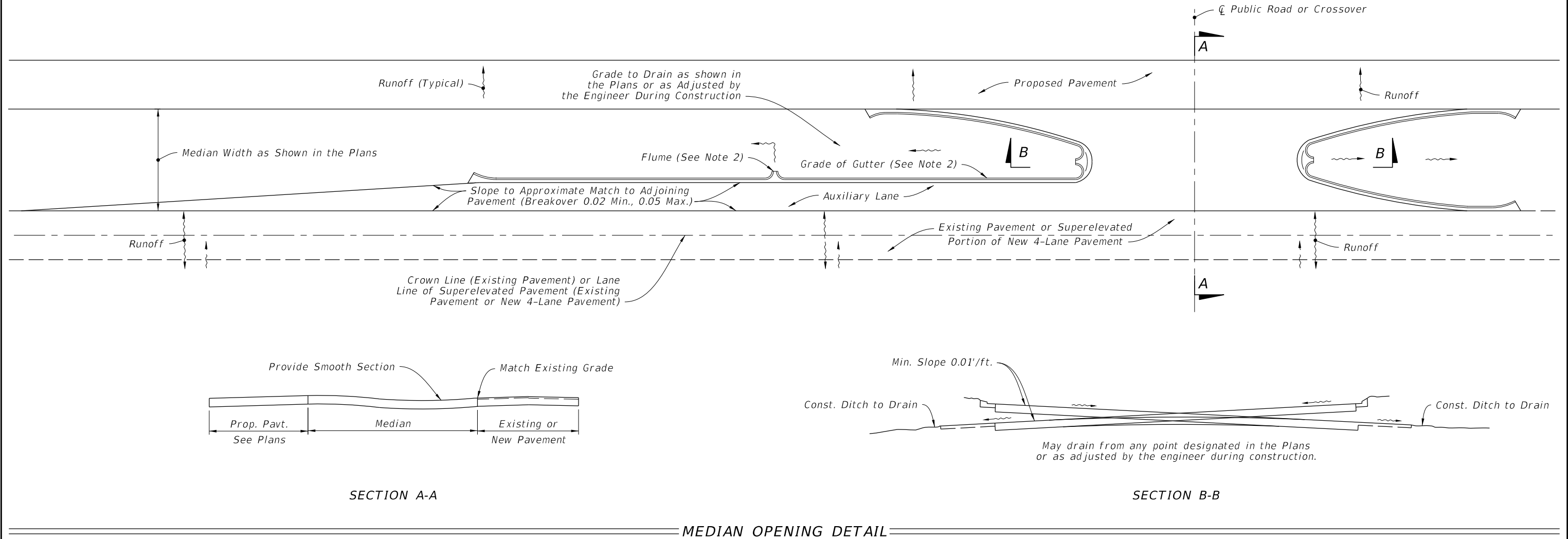
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SUPERVISED BY: YANEX FERNANDEZ			

MIAMI-DADE
COUNTY

DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK, CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

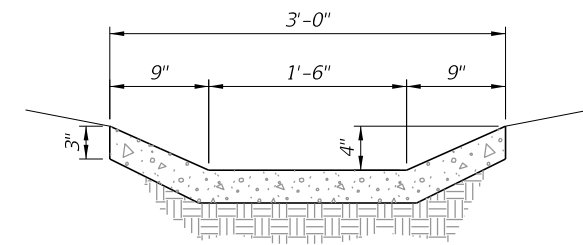
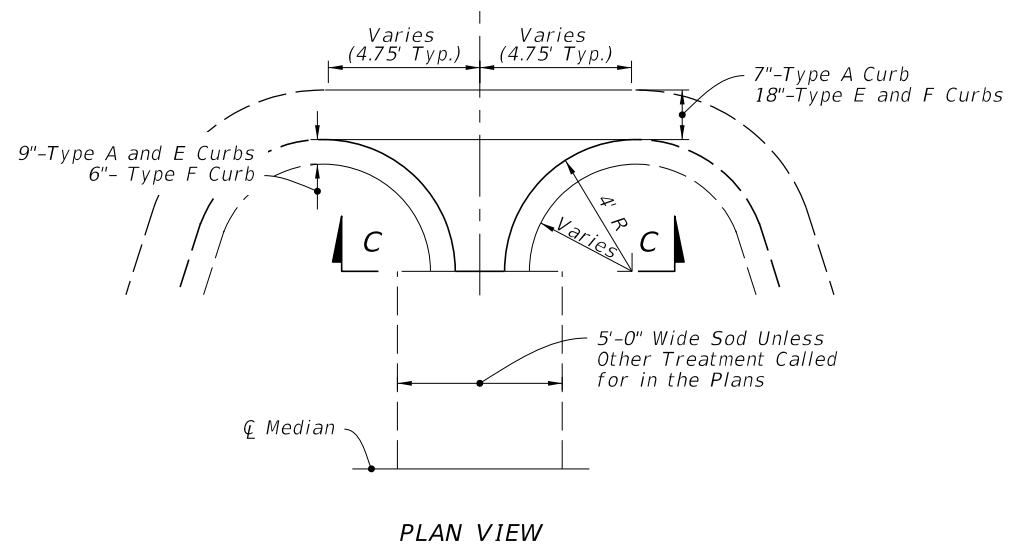
STANDARD DETAILS


10/3/2023 12:53:58 PM



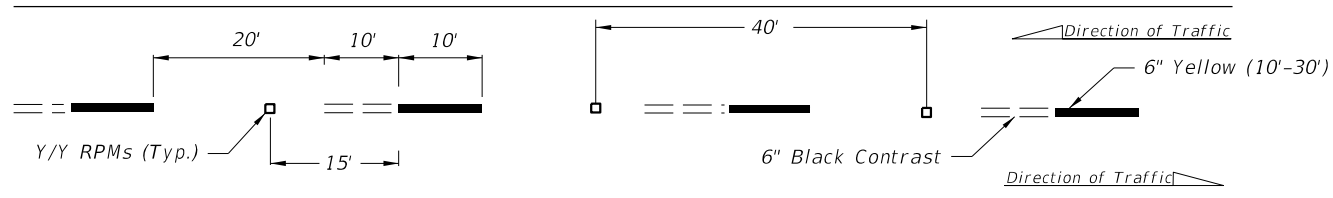
NOTES:

1. These details are to apply to projects which provide for the conversion of 2-lane sections to 4-lane divided highway sections and for superelevated sections of new 4-lane divided highways. Layout above is illustration only.
2. See Plans for flume length and location and grade of gutter. Flume locations may be adjusted by the Engineer during construction. If necessary to provide minimum gutter grade, warp surface of the median pavement within limits of the median curb or curb and gutter.

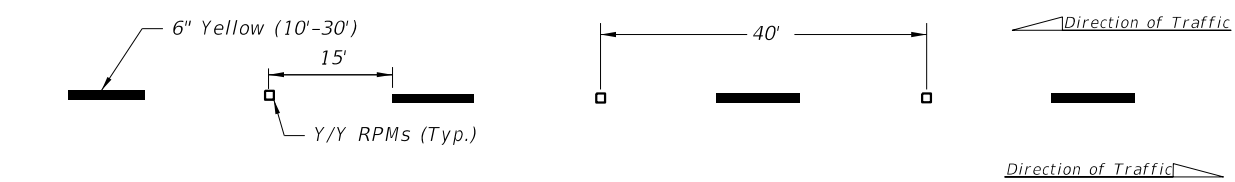


LAST REVISION 11/01/21	REVISION DESCRIPTION:	 FY 2024-25 STANDARD PLANS	MEDIAN OPENING FLUME	INDEX 520-010	SHEET 1 of 1
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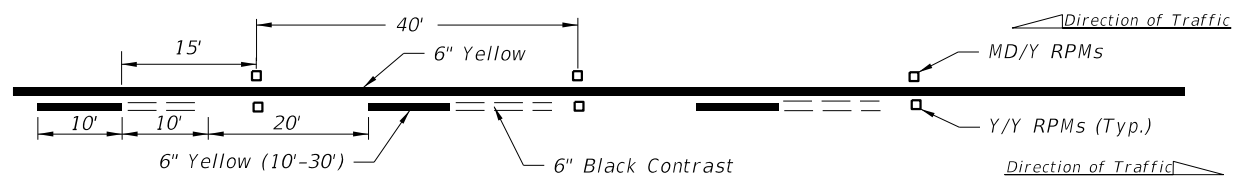
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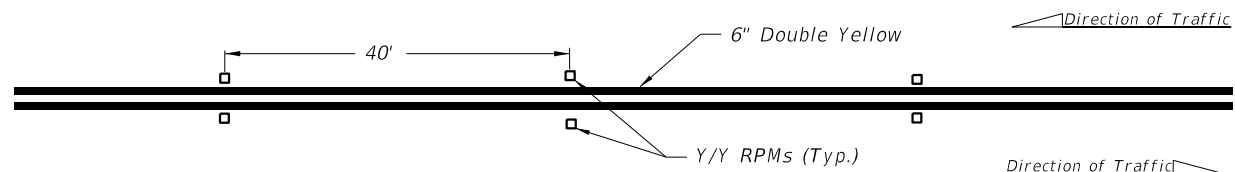
ALTERNATING SKIP LINE



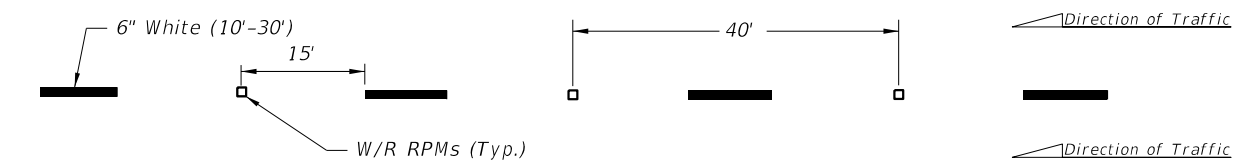
SKIP LINE



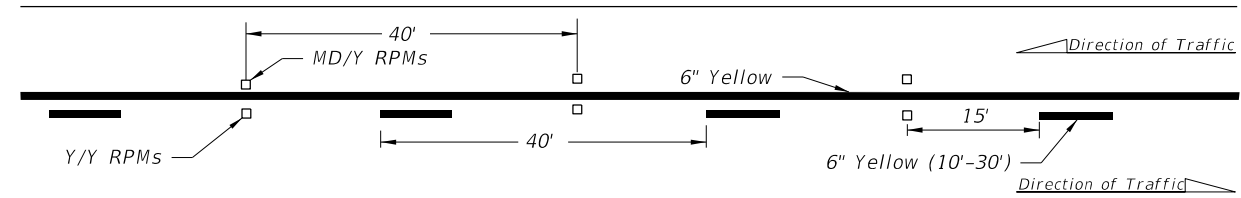
SOLID LINE WITH ALTERNATING SKIP



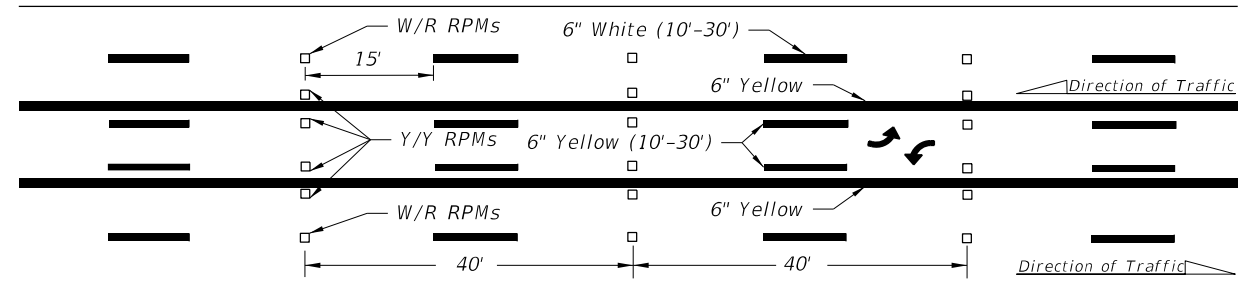
DOUBLE SOLID LINE



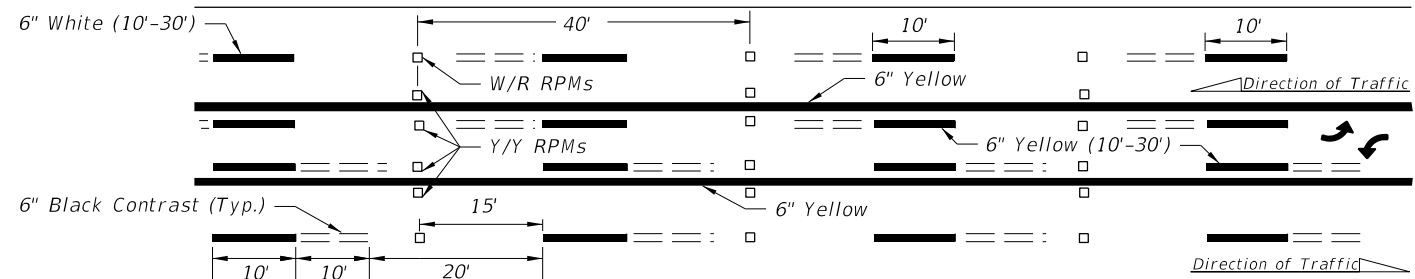
MULTILANE



SOLID LINE WITH SKIP



SKIP LINE WITH TWO-WAY LEFT TURN LANE



ALTERNATING SKIP LINE WITH TWO-WAY LEFT TURN LANE

NOTES:

1. Offset all RPMs 1" from solid longitudinal lines unless otherwise noted or shown.
2. Spacing may be reduced for sharp curves if required.
3. For placement of RPMs on ramps, see Index 711-003.
4. Make the traffic face of the RPM the same color as the pavement marking that it is supplementing.

LEGEND:

B/C = BACK OF CURB
EOP = EDGE OF PAVEMENT
RPM = RAISED PAVEMENT MARKER
W/R = WHITE/RED RPM
Y/Y = YELLOW/YELLOW RPM
Y/R = YELLOW/RED RPM
MD/Y = MONO-DIRECTIONAL YELLOW RPM

LAST
REVISION
11/01/18

REVISION

DESCRIPTION:

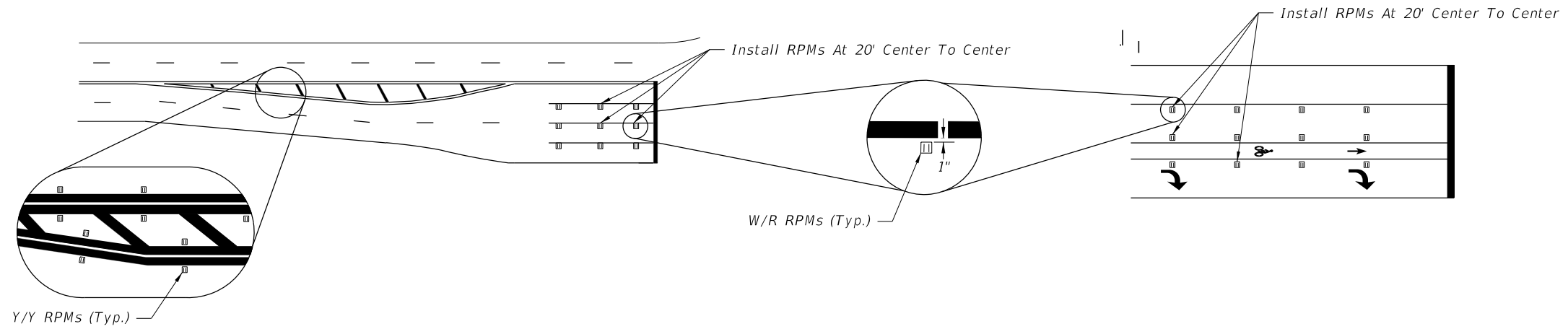


FY 2023-24
STANDARD PLANS

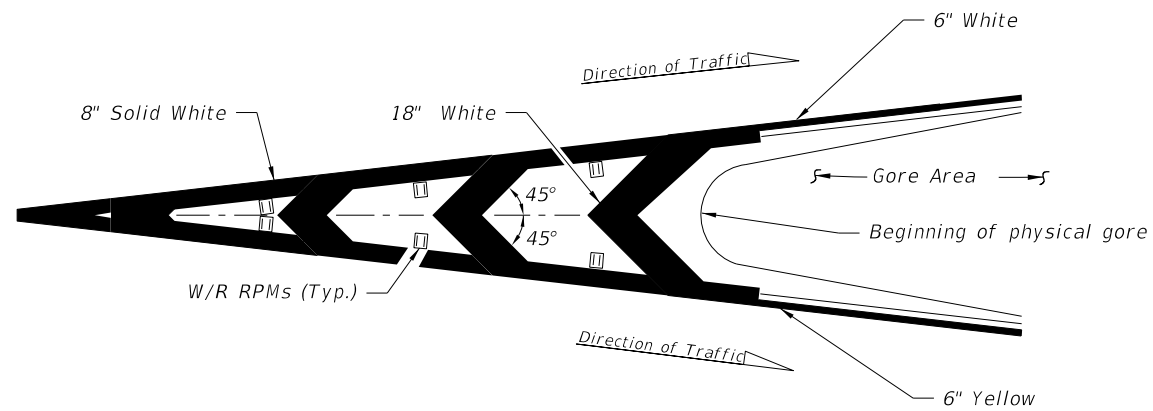
TYPICAL PLACEMENT OF
RAISED PAVEMENT MARKERS

INDEX
706-001

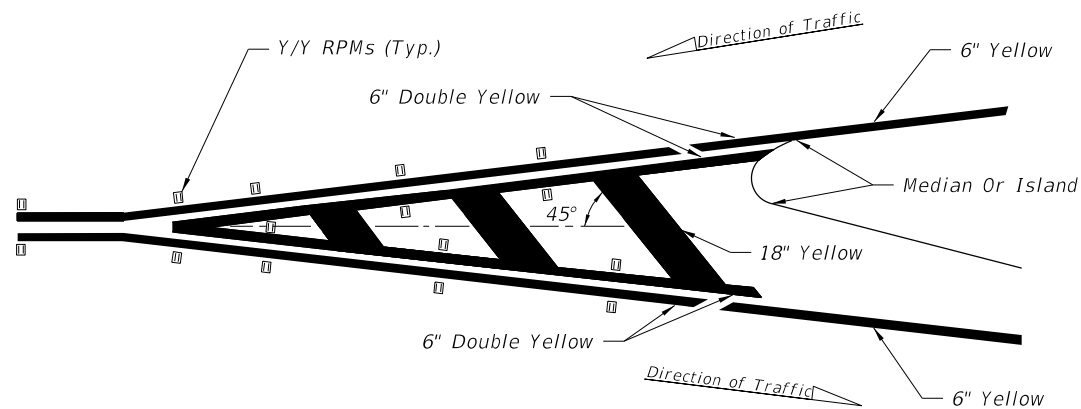
SHEET
1 of 6



RPM PLACEMENT AT INTERSECTIONS



RPM PLACEMENT AT TRAFFIC CHANNELIZATION AT GORE (Traffic Flows In Same Direction)



RPM PLACEMENT AT TRAFFIC SEPARATION (Traffic Flows In Opposite Direction)

NOTE:

Center the Raised Pavement Markers between chevrons and crosshatching.

LEGEND:

B/C = BACK OF CURB

EOP = EDGE OF PAVEMENT

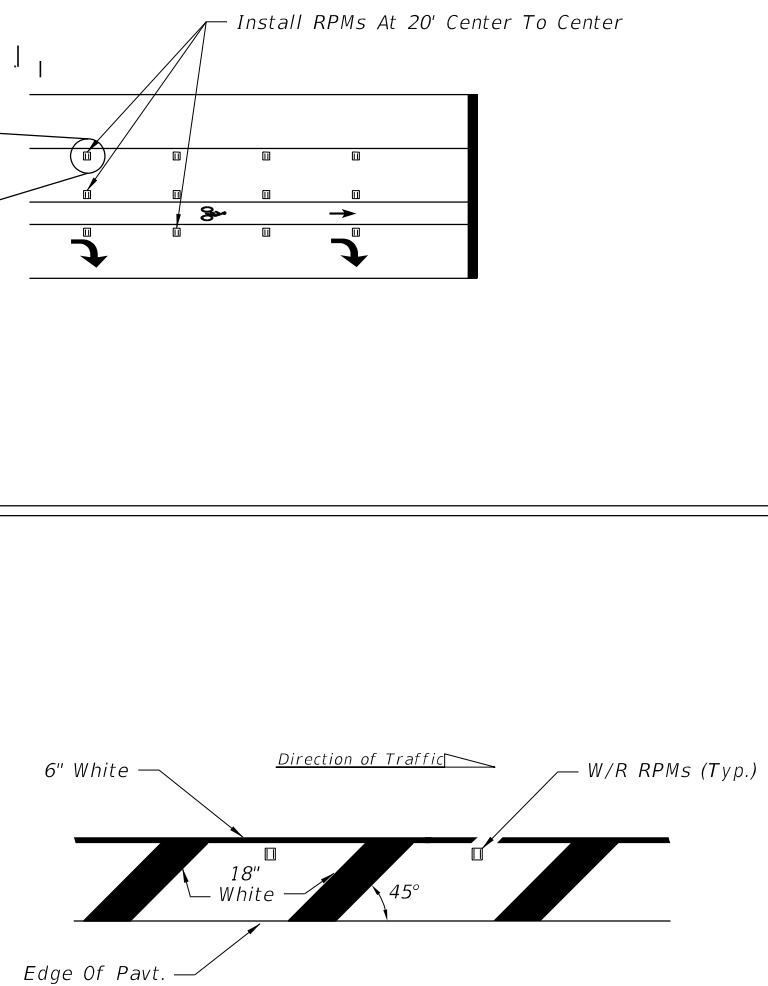
RPM = RAISED PAVEMENT MARKER

W/R = WHITE/RED RPM

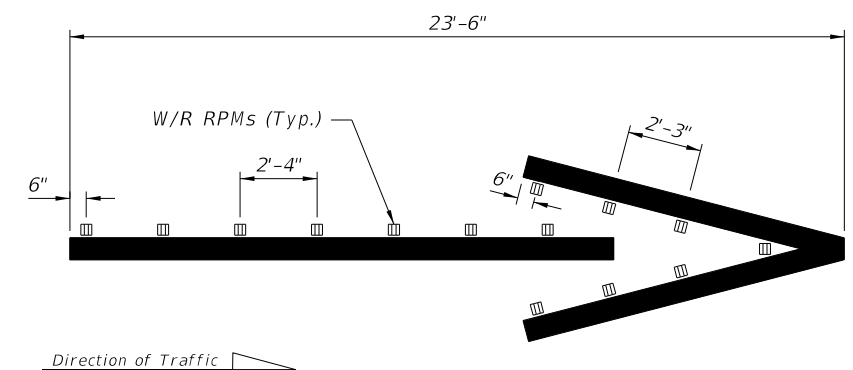
Y/Y = YELLOW/YELLOW RPM

Y/R = YELLOW/RED RPM

MD/Y = MONO-DIRECTIONAL
YELLOW RPM




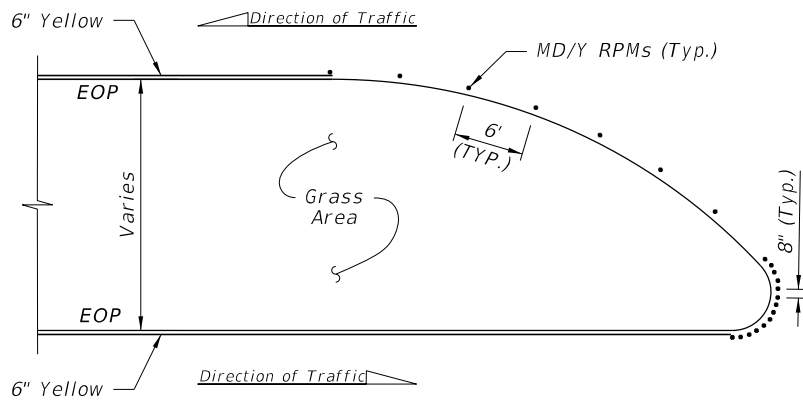
RPM PLACEMENT AT ROADSIDE CROSSHATCHING



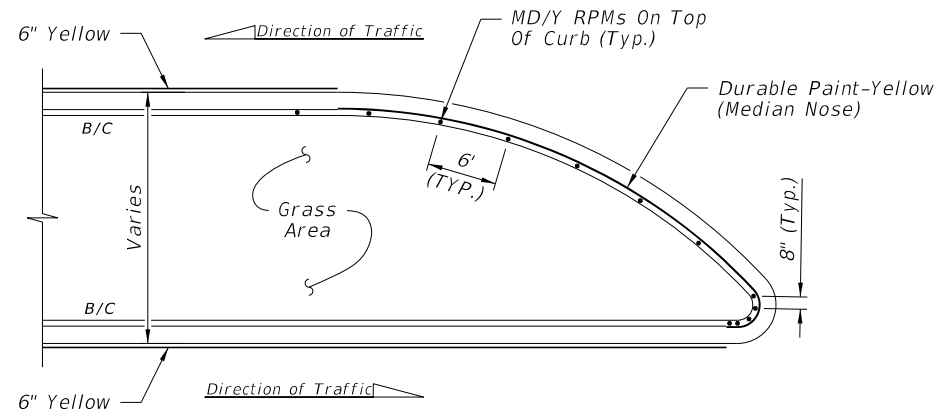
WRONG-WAY ARROW

6/8/2023 7:25:06 AM

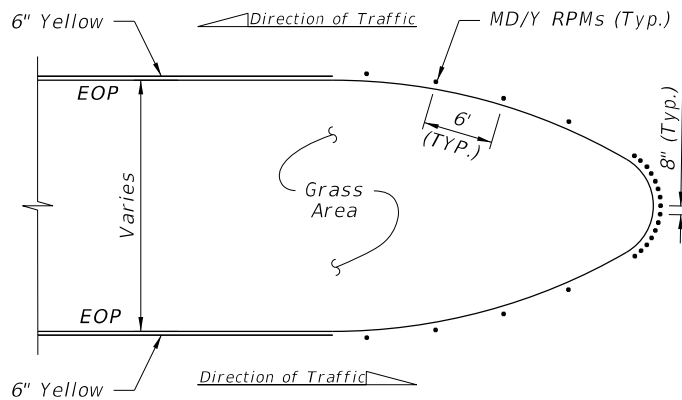
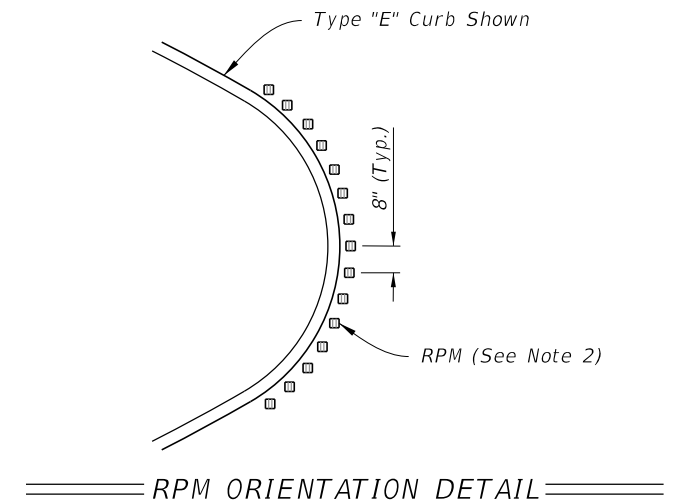
LAST REVISION 11/01/21	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	TYPICAL PLACEMENT OF RAISED PAVEMENT MARKERS	INDEX 706-001	SHEET 2 of 6
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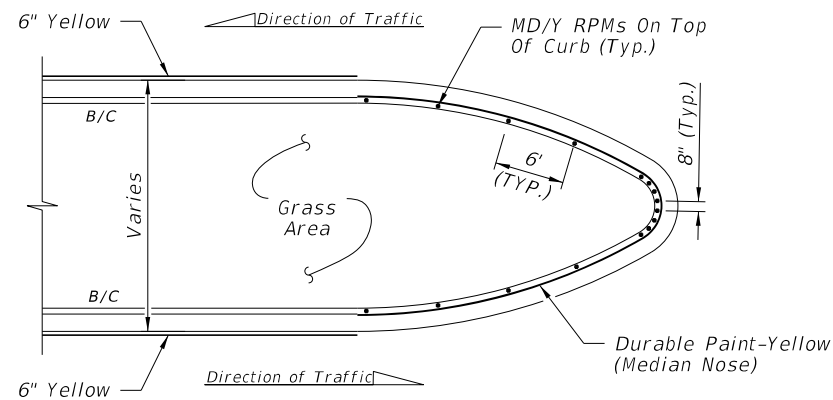
DETAIL "A"



DETAIL "D"



DETAIL "B"



DETAIL "E"

POSTED SPEED LIMIT MPH	"Y" FEET
30 OR LESS	10
35	20
40	20
45	30
50 OR MORE	40

LEGEND:

B/C = BACK OF CURB

EOP = EDGE OF PAVEMENT

RPM = RAISED PAVEMENT MARKER

W/R = WHITE/RED RPM

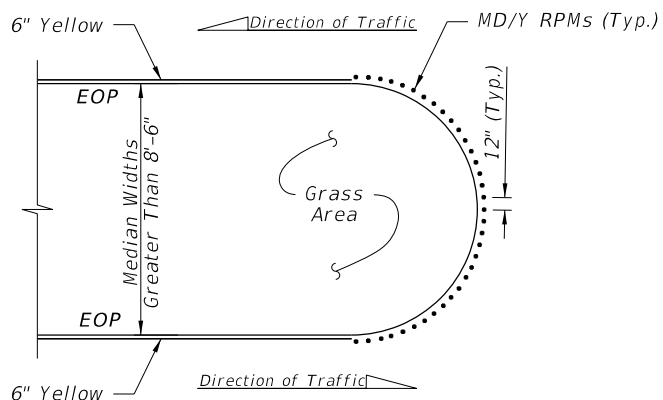
Y/Y = YELLOW/YELLOW RPM

Y/R = YELLOW/RED RPM

MD/Y = MONO-DIRECTIONAL
YELLOW RPM

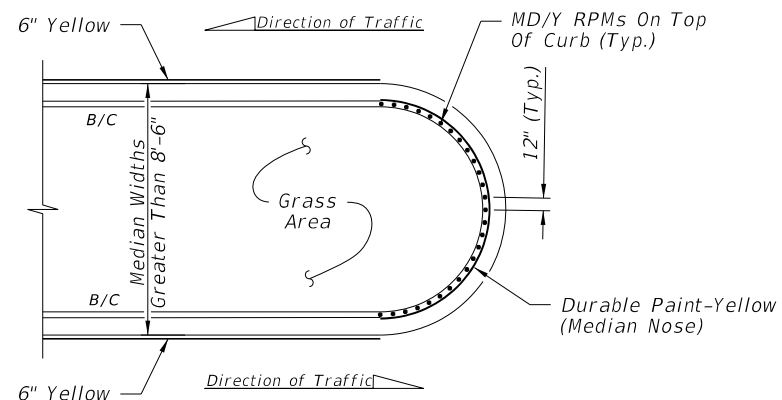
NOTES:

1. For Type "E" Curb, install RPMs along the pavement edge marking using the same spacing shown.
2. Orient traffic faces of RPMs in curb median radii to be parallel to direction of travel lanes.
3. Use epoxy adhesive to install RPMs on concrete median nose curbs.
4. Install RPMs on clean, unpainted surface. Do not paint curb surface where RPMs will be placed.



DETAIL "C"

FLUSH MEDIAN OPENINGS
(Type "E" Curb Similar. See Note 1)

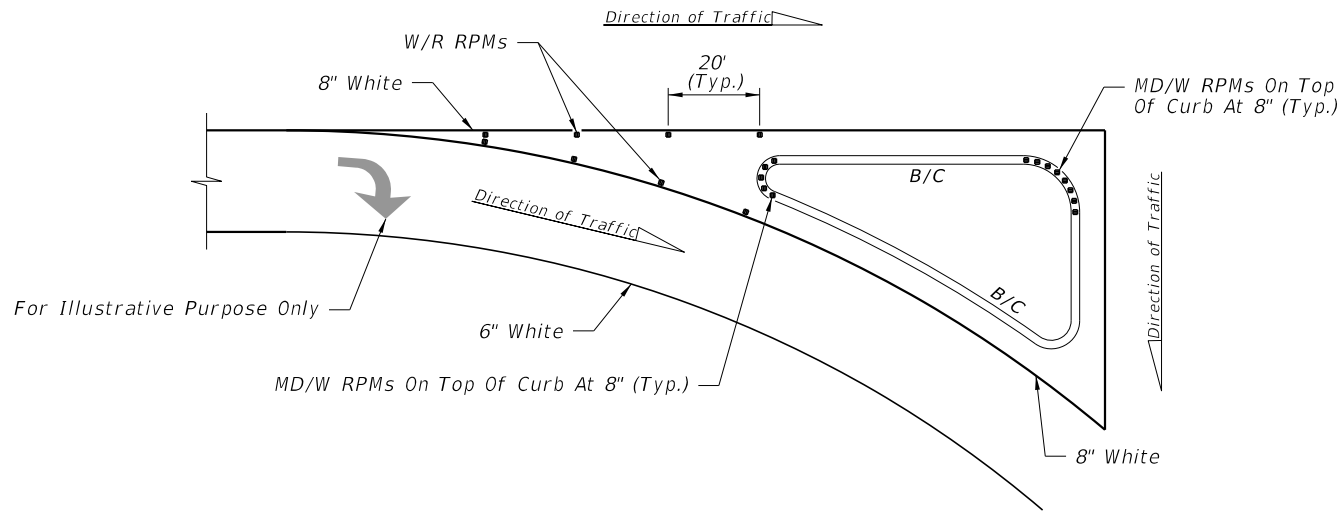


DETAIL "F"

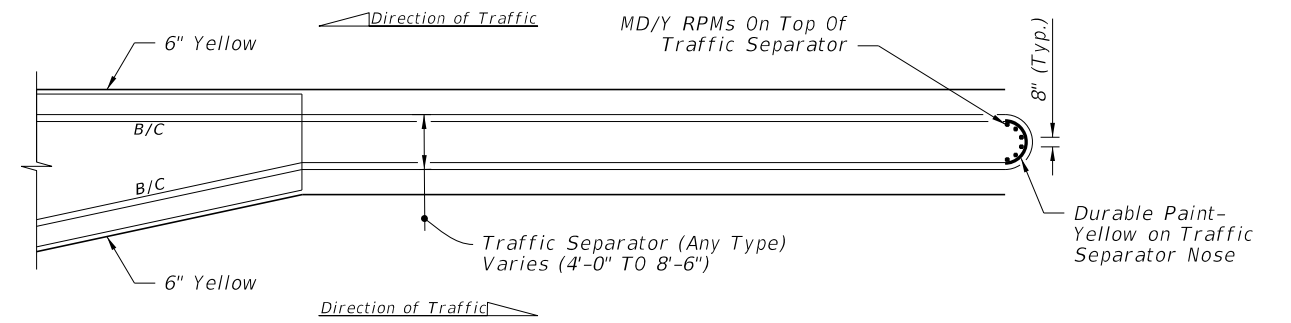
TYPE "D" OR "F" CURB

RPM PLACEMENT AT MEDIAN OPENINGS
(When called for in the Plans)

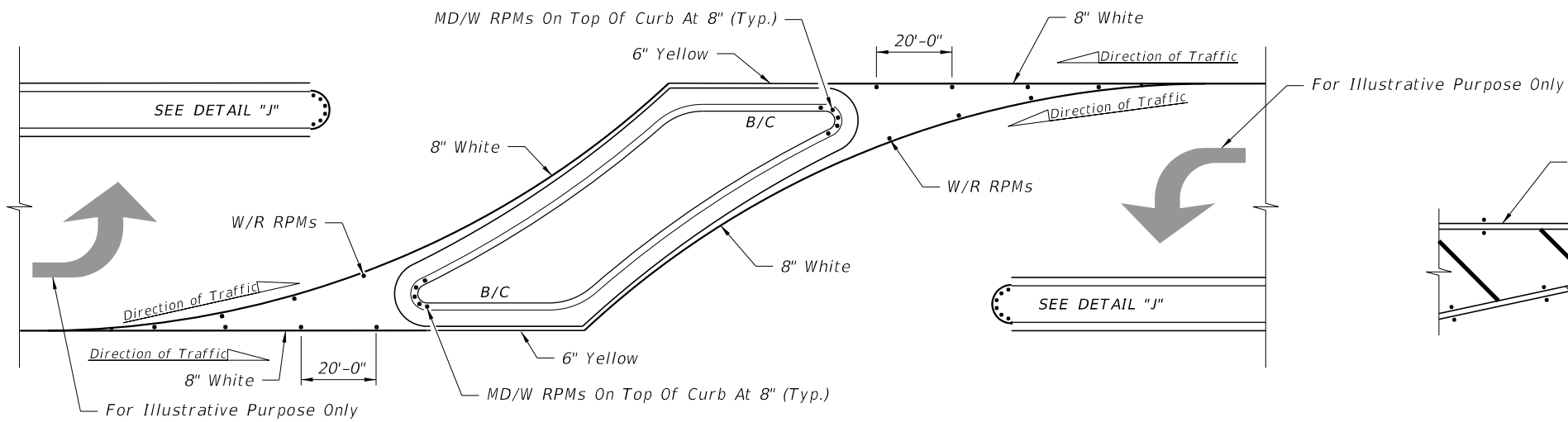
10/6/2022 2:40:51 PM



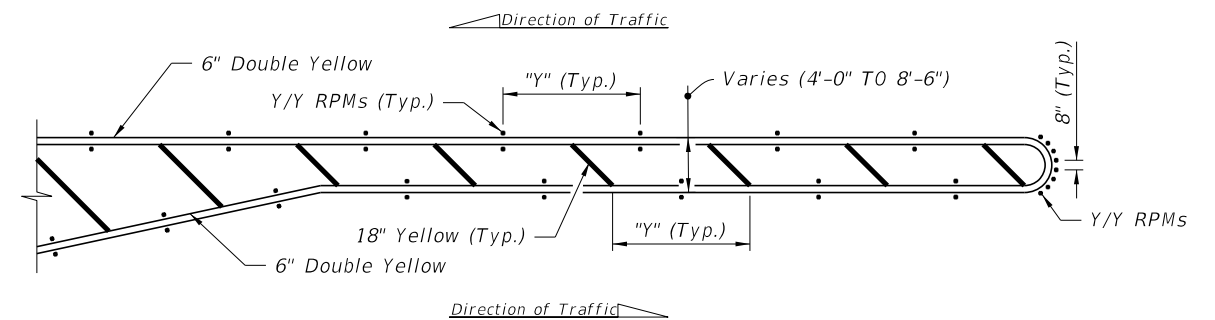
DETAIL "G"



DETAIL "J"



DETAIL "H"



DETAIL "K"

RPM PLACEMENT AT ISLANDS (When called for in the Plans)

POSTED SPEED LIMIT MPH	"Y" FEET
30 OR LESS	10
35	20
40	20
45	30
50 OR MORE	40

NOTES:

- For Type "E" Curb install RPMs along the pavement edge marking using the same spacing shown.
- Orient traffic faces of RPMs in median radii to be parallel to direction of travel lanes.

LEGEND:

B/C = BACK OF CURB
 EOP = EDGE OF PAVEMENT
 RPM = RAISED PAVEMENT MARKER
 W/R = WHITE/RED RPM
 Y/Y = YELLOW/YELLOW RPM
 Y/R = YELLOW/RED RPM
 MD/Y = MONO-DIRECTIONAL YELLOW RPM
 MD/W = MONO-DIRECTIONAL WHITE RPM

RPM PLACEMENT AT TRAFFIC SEPARATORS (When called for in the Plans)



FY 2023-24
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TYPICAL PLACEMENT OF
RAISED PAVEMENT MARKERS

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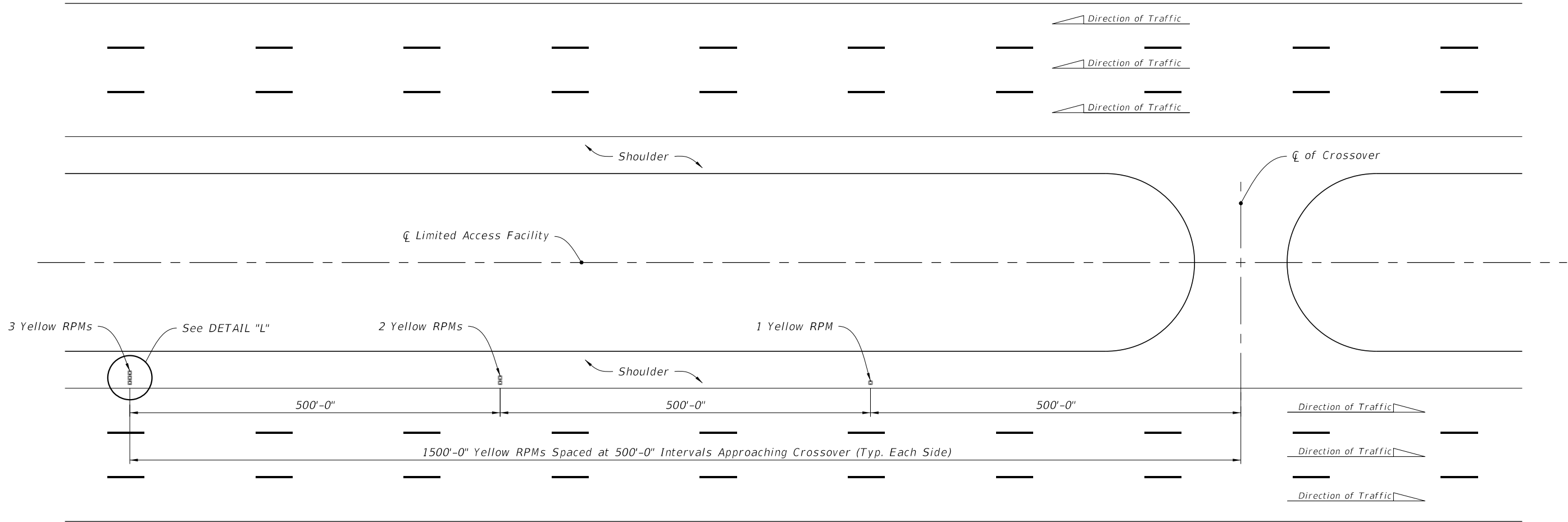
LAST
REVISION
11/01/21

REVISION

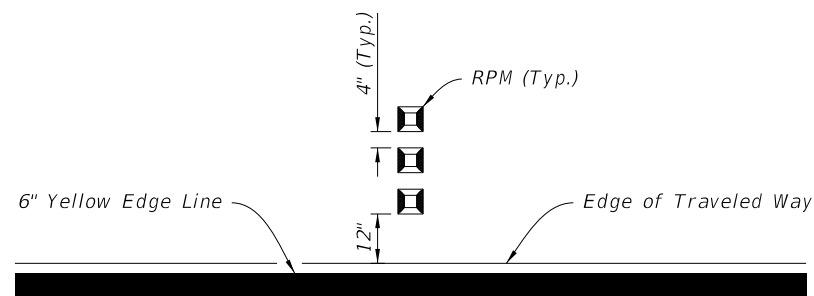
DESCRIPTION:

10/6/2022 2:40:51 PM


10/6/2022 2:40:52 PM

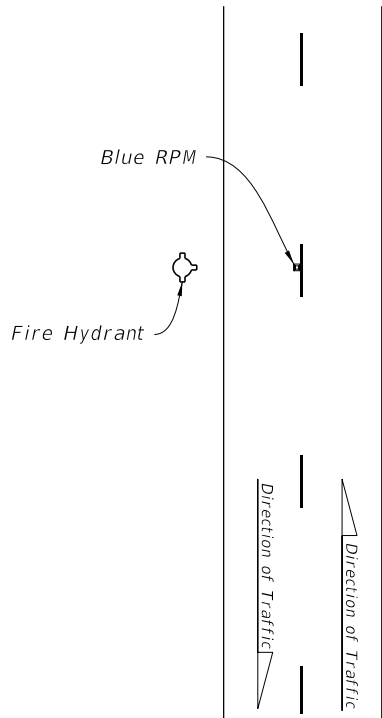


RPM PLACEMENT FOR CROSSOVERS ON LIMITED ACCESS ROADWAYS

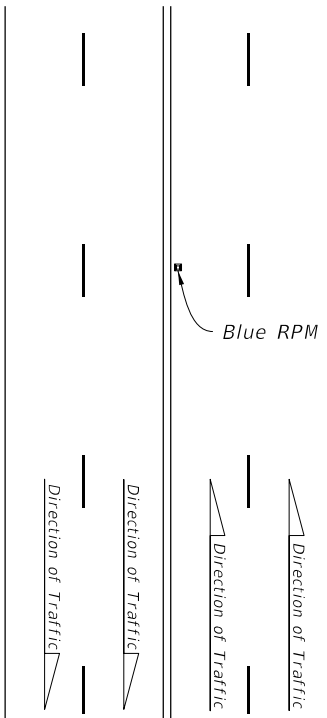


DETAIL "L"

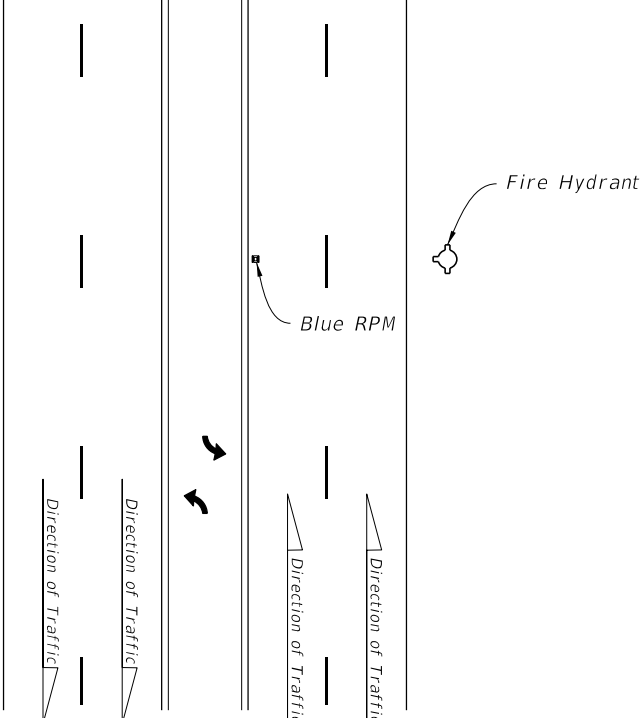
LAST REVISION 11/01/18	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	TYPICAL PLACEMENT OF RAISED PAVEMENT MARKERS	INDEX 706-001	SHEET 5 of 6
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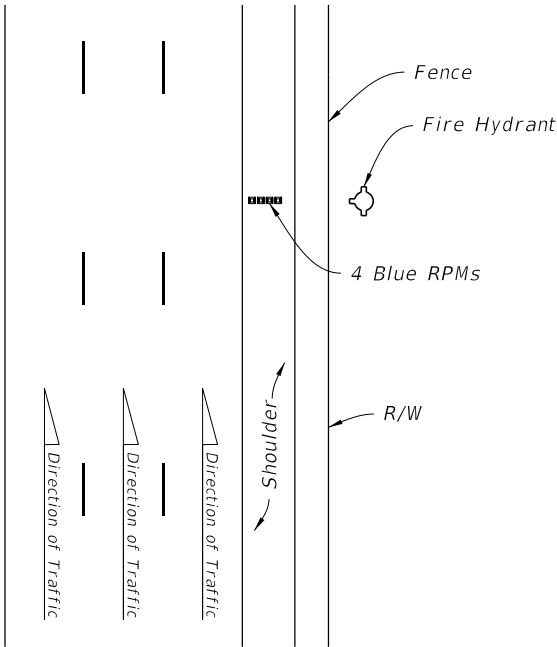
TWO-LANE ROADWAY



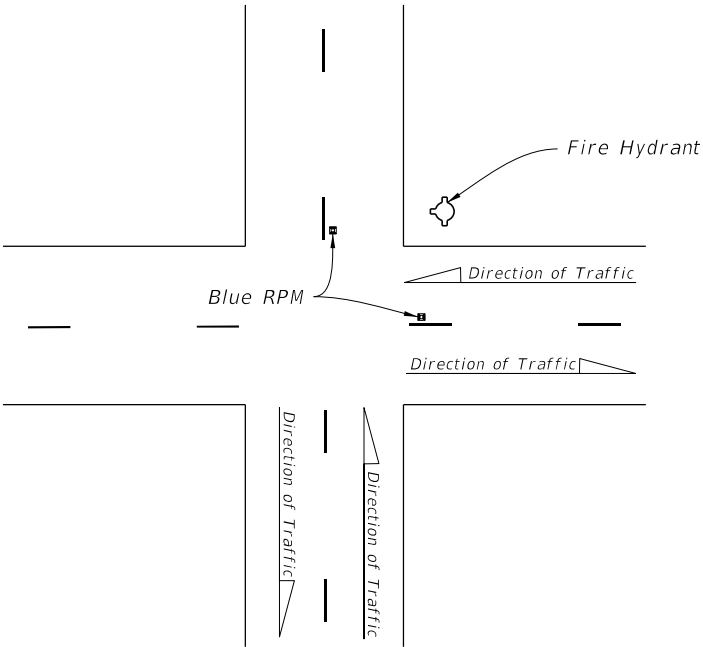
MULTILANE ROADWAY



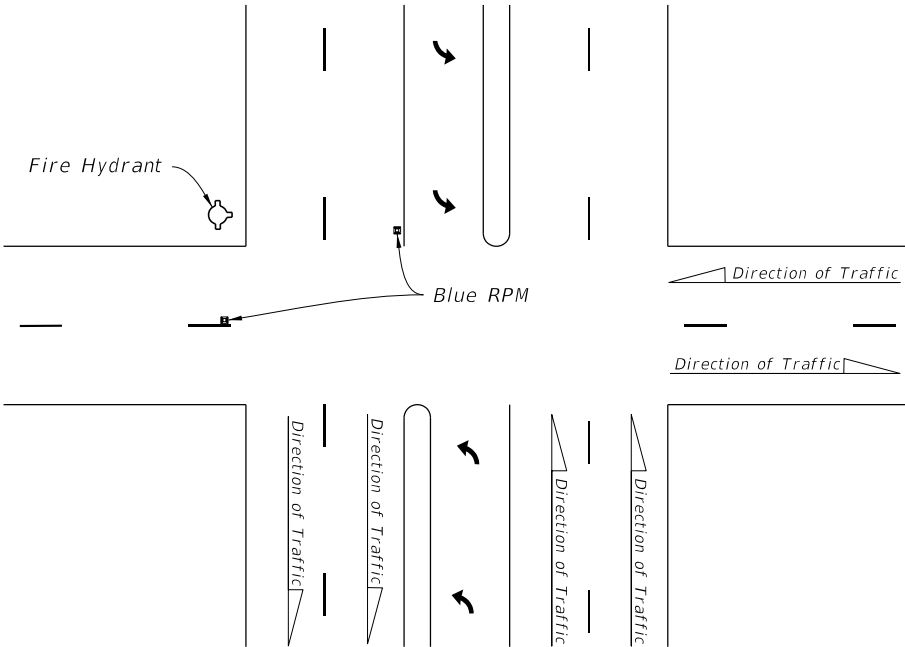
MULTILANE ROADWAY
WITH TURN LANE



LIMITED ACCESS ROADWAY



TWO-LANE ROADWAY
AT INTERSECTION

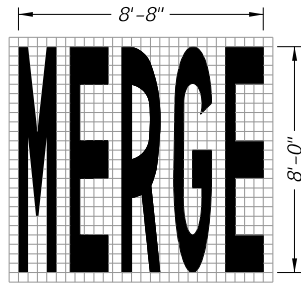


MULTILANE ROADWAY AT INTERSECTION

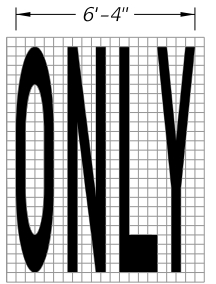
BLUE RPM PLACEMENT

10/6/2022 2:40:52 PM

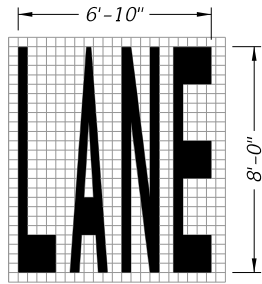
LAST REVISION 11/01/18	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	TYPICAL PLACEMENT OF RAISED PAVEMENT MARKERS	INDEX 706-001	SHEET 6 of 6
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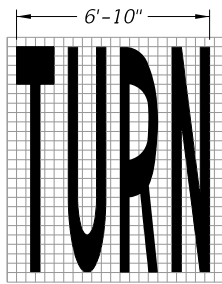
34 S.F.



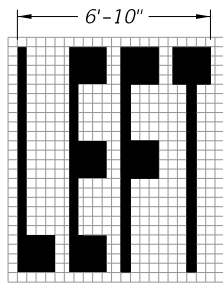
22 S.F.



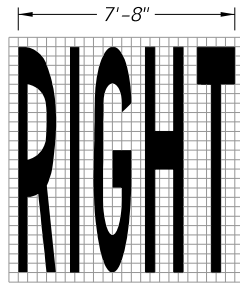
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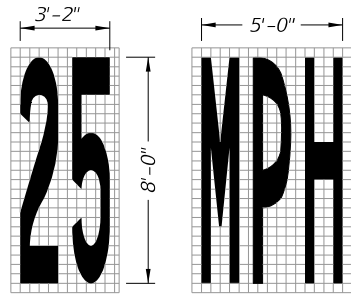
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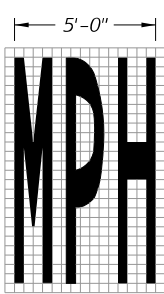
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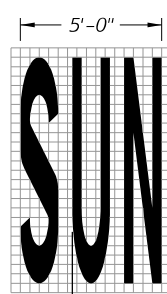
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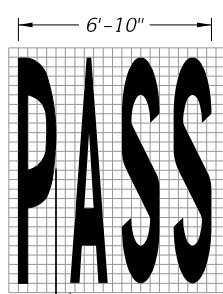
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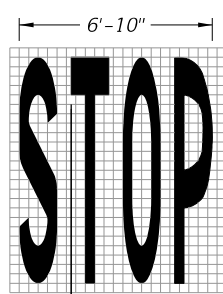
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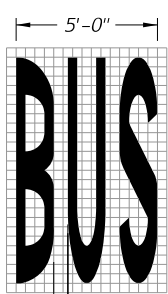
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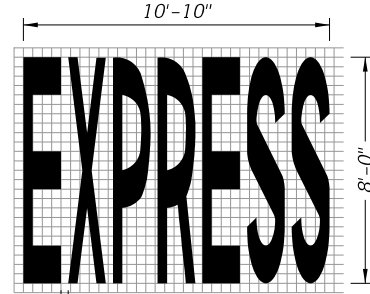
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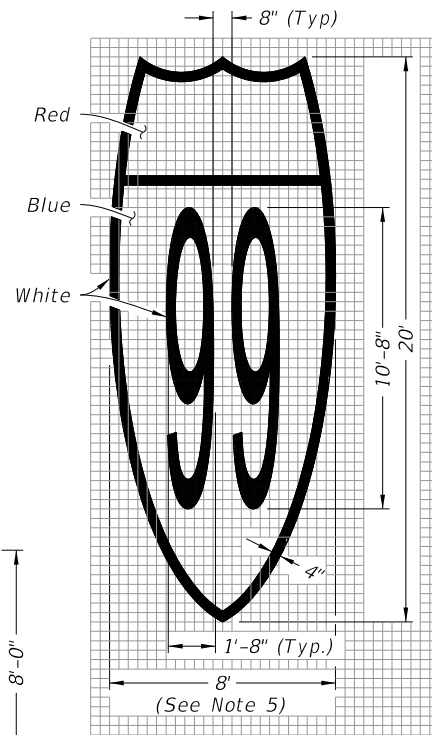
22 S.F.



20 S.F.

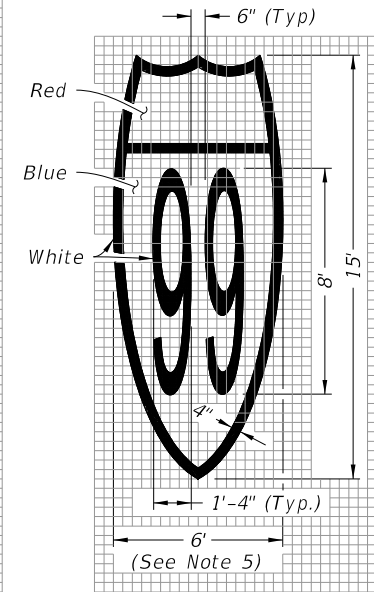


43 S.F.



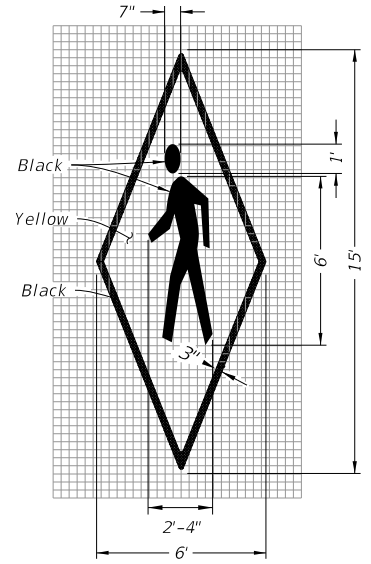
Route Shield for Limited Access Roadways (Interstate Route Shield Shown; U.S. and State Route Shield Similar)

128 S.F.



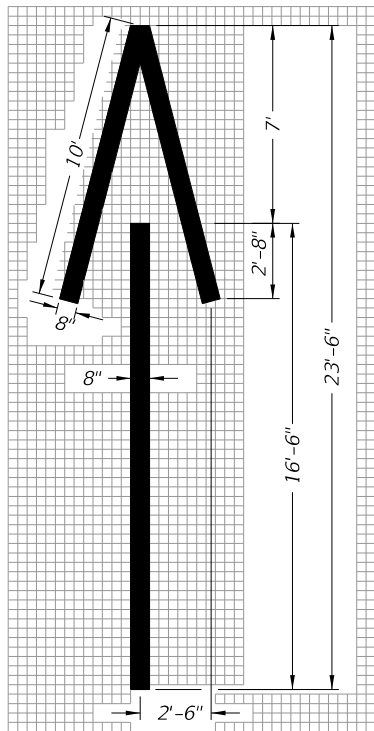
Route Shield for Arterials and Collectors (Interstate Route Shield Shown; U.S. and State Route Shield Similar)

72 S.F.



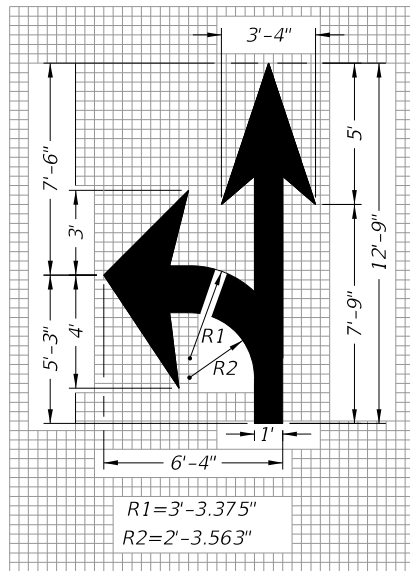
In Pavement Warning Marking

45 S.F.



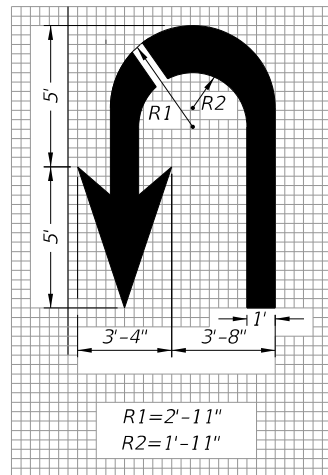
Wrong-Way Arrow

24 S.F.



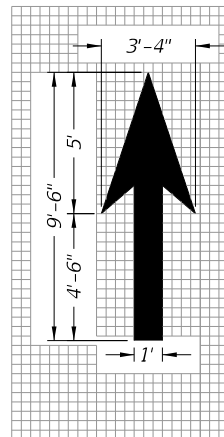
Turn and Through Lane-Use Arrow

29 S.F.



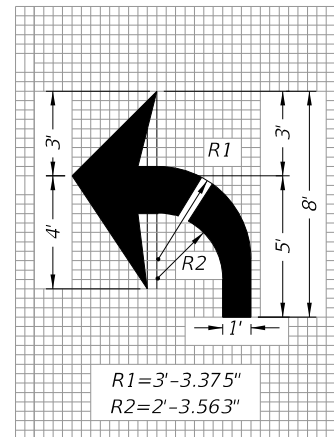
U Turn Lane-Use Arrow

27 S.F.



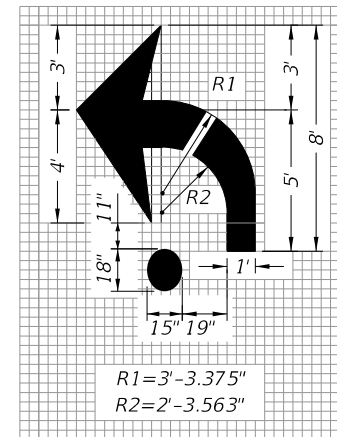
Through Lane-Use Arrow

12 S.F.



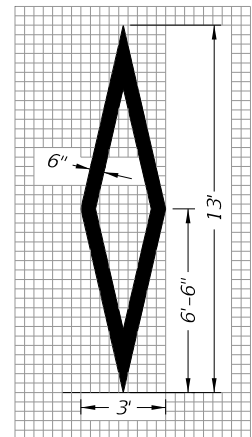
Turn Lane-Use Arrow (Left Turn Shown - Right Turn Similar)

17 S.F.



Roundabout Approach Arrow

19 S.F.



Preferential Lane Symbol

11 S.F.

PAVEMENT MESSAGES NOTES:

1. Place all pavement messages 25' back from the stop line.
2. Dimensions are within 1" ±.
3. All grids are 4" x 4".
4. All pavement messages must be white except Route Shields and In Pavement Warning Markings.
5. Increase width of route shield for routes with three digits.

PAVEMENT MESSAGE AND ARROW DETAILS

LAST
REVISION
11/01/21

DESCRIPTION:

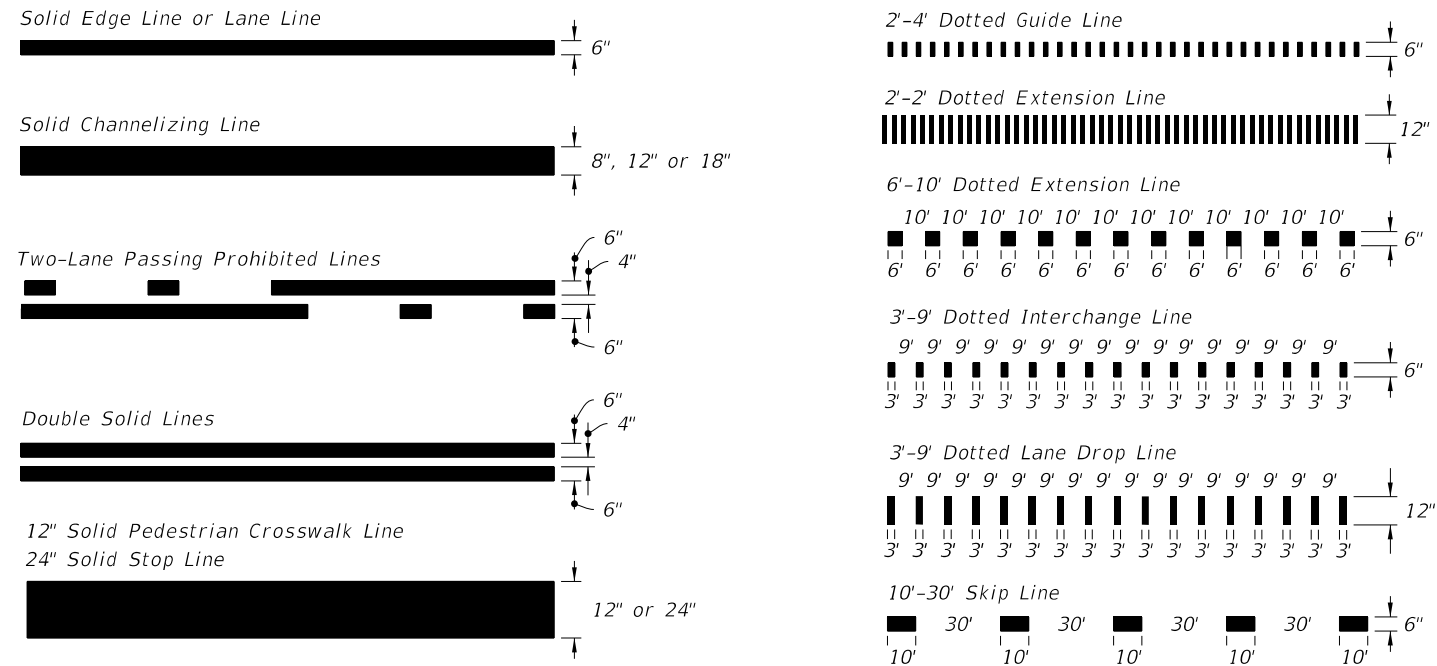


FY 2023-24
STANDARD PLANS

PAVEMENT MARKINGS

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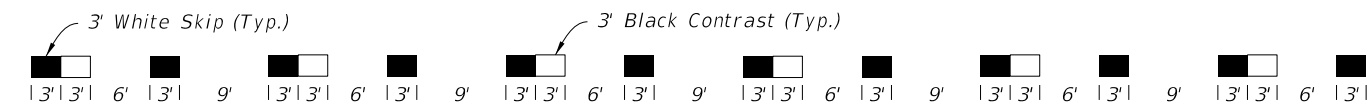
SHEET
1 of 13



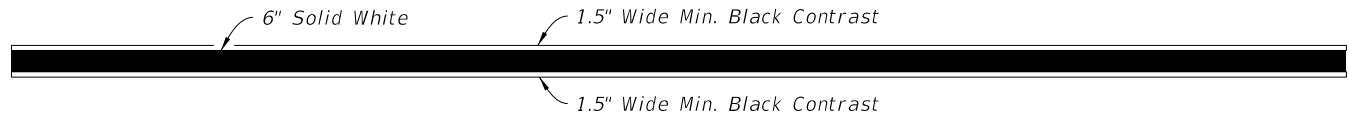
PAVEMENT MARKING LINES



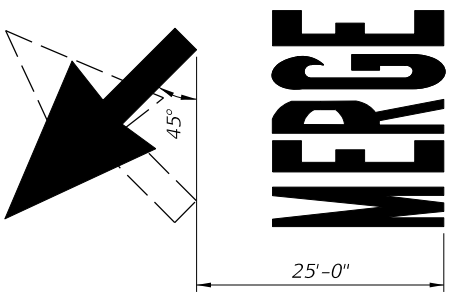
10'-30' SKIP LINE WITH CONTRAST MARKINGS



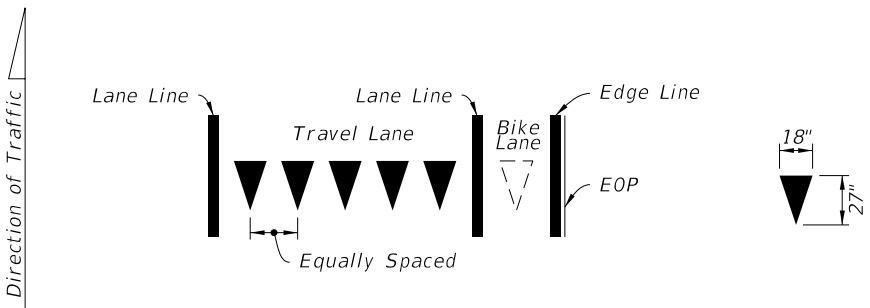
DOTTED LINE WITH ALTERNATING CONTRAST MARKINGS
(3'-9' Dotted Line Shown, Other Dotted Lines Similar)



LONGITUDINAL SOLID LANE LINE WITH CONTRAST MARKINGS
(Not For Use On Edge Lines)




MARKINGS FOR MERGE



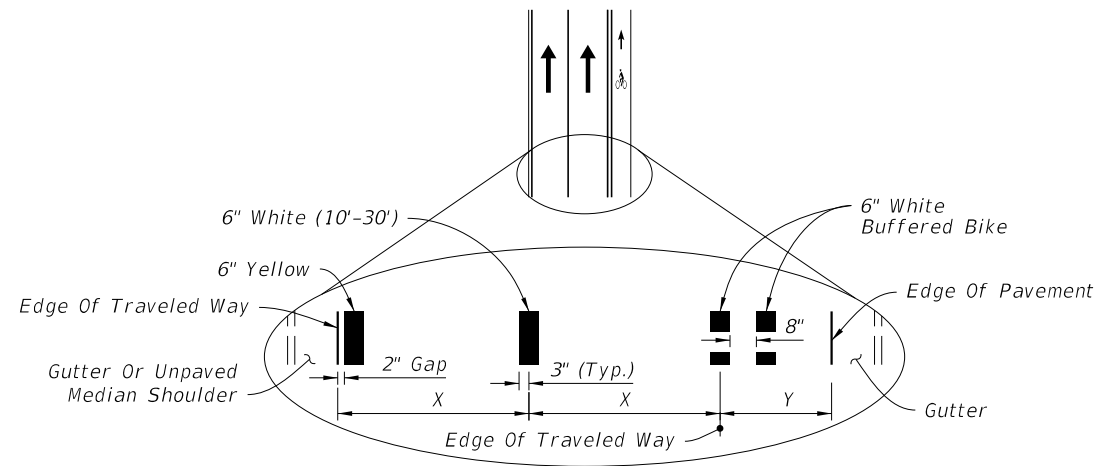
Yield Lines consist of five - 18" X 27" white triangles which face traffic. Equally space triangles within traffic lane. When a bike lane is present, add one additional triangle in the center of the bike lane.

YIELD LINES

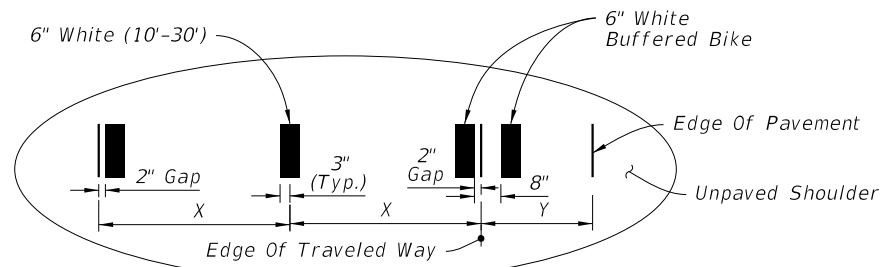
10/7/2022 2:50:13 PM

LAST REVISION 11/01/22	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001	SHEET 2 of 13
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10/7/2022 2:50:15 PM



CURB AND GUTTER

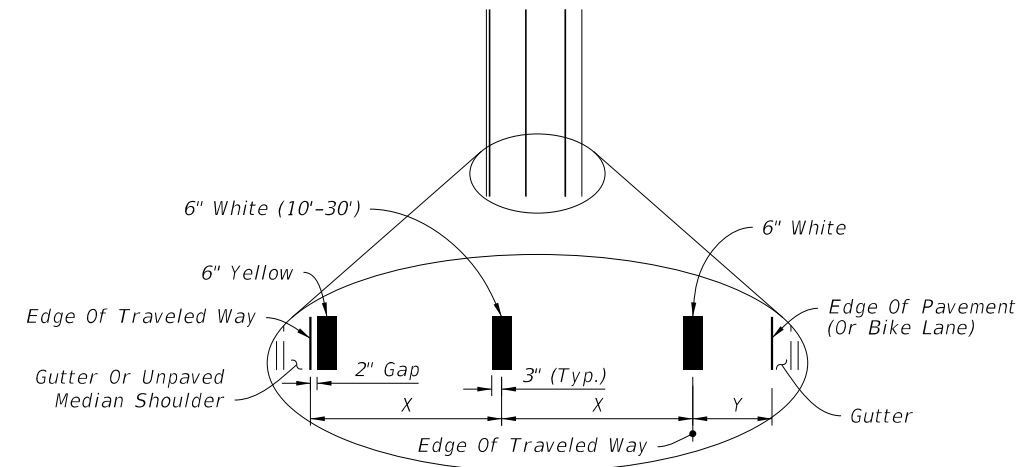


FLUSH SHOULDER

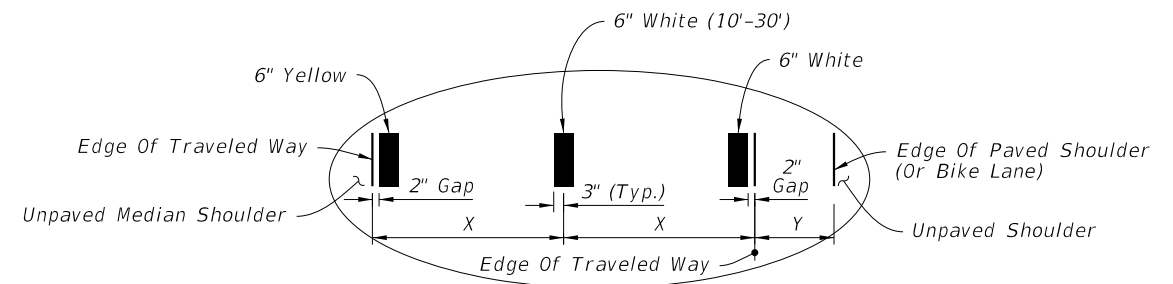
X = LANE WIDTH (FT.)

Y = BUFFERED BIKE LANE WIDTH (FT.)

STRIPING FOR BUFFERED BIKE LANE



CURB AND GUTTER

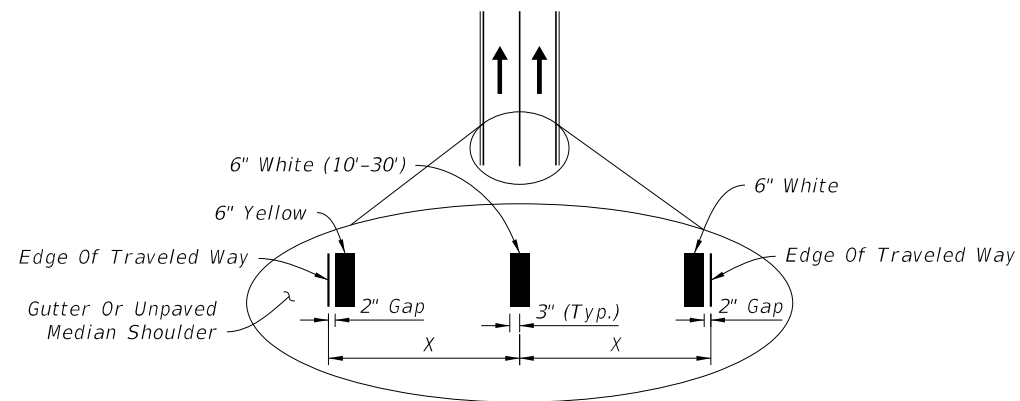


FLUSH SHOULDER

X = LANE WIDTH (FT.)

Y = PAVED SHOULDER / BIKE LANE

STRIPING WITH SHOULDER OR NON-BUFFERED BIKE LANE



X = LANE WIDTH (FT.)

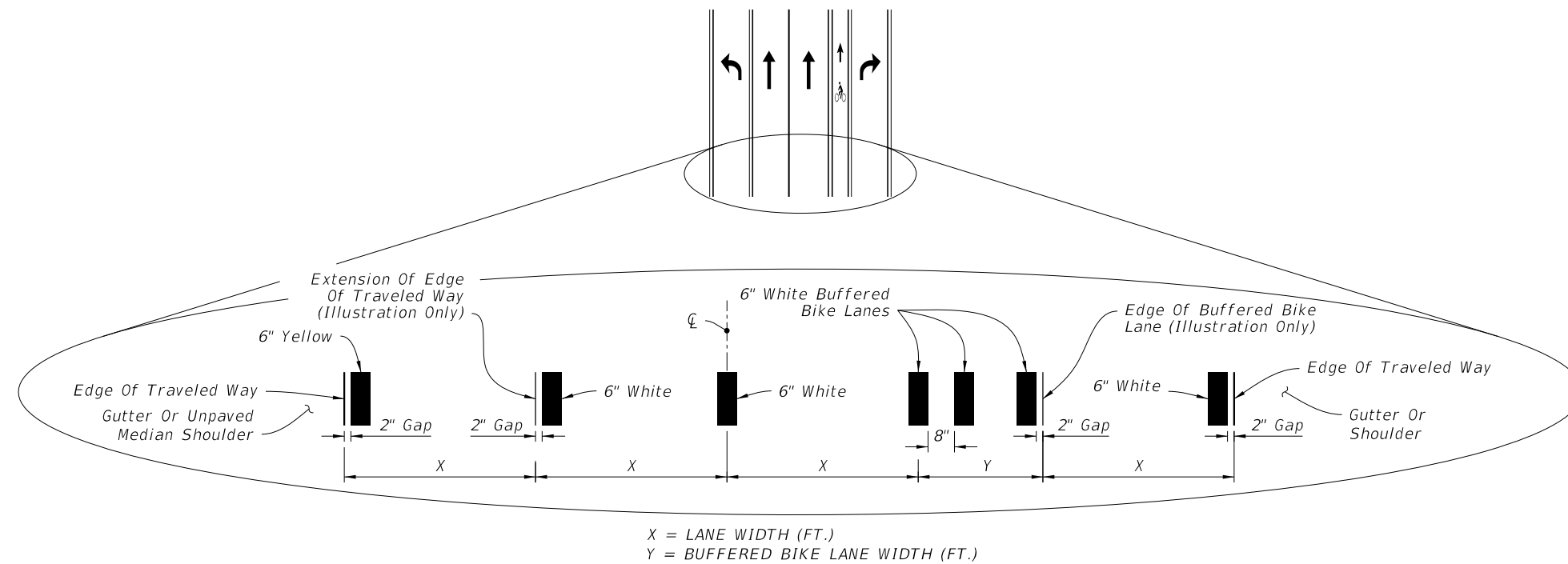
STRIPING WITH NO SHOULDER OR BIKE LANE

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

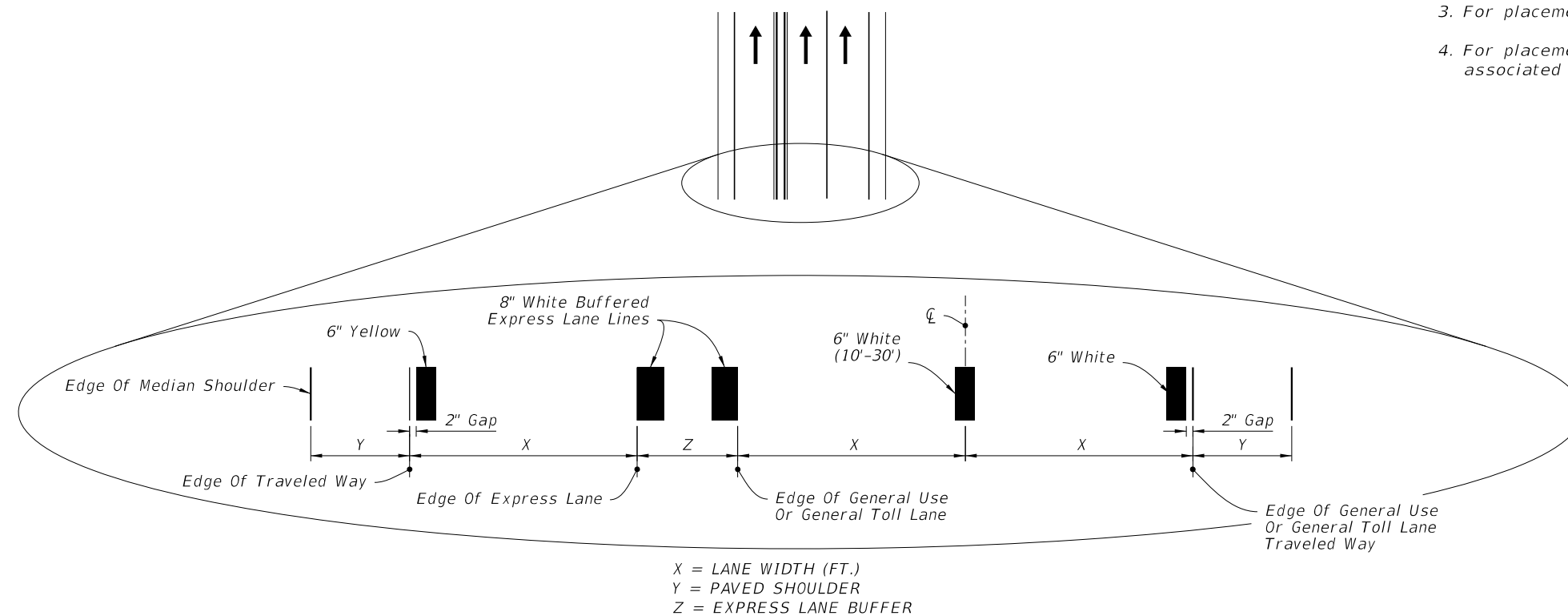
LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	PAVEMENT MARKINGS	INDEX	SHEET
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INTERSECTION APPROACH STRIPING WITH TURN LANES AND BUFFERED BIKE LANE KEY HOLE


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.

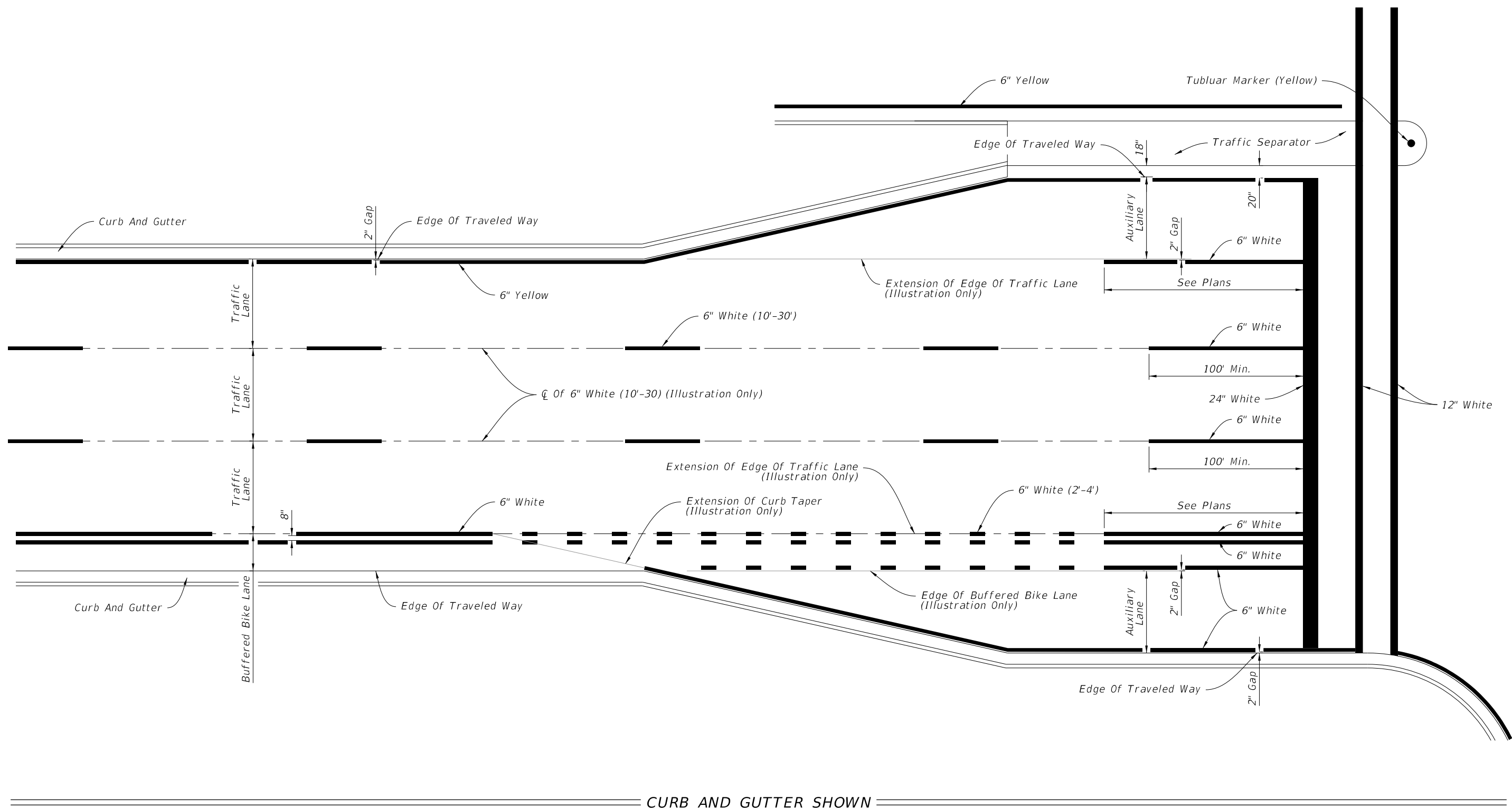


BUFFERED EXPRESS LANE STRIPING


PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

LAST REVISION 11/01/21	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001	SHEET 4 of 13
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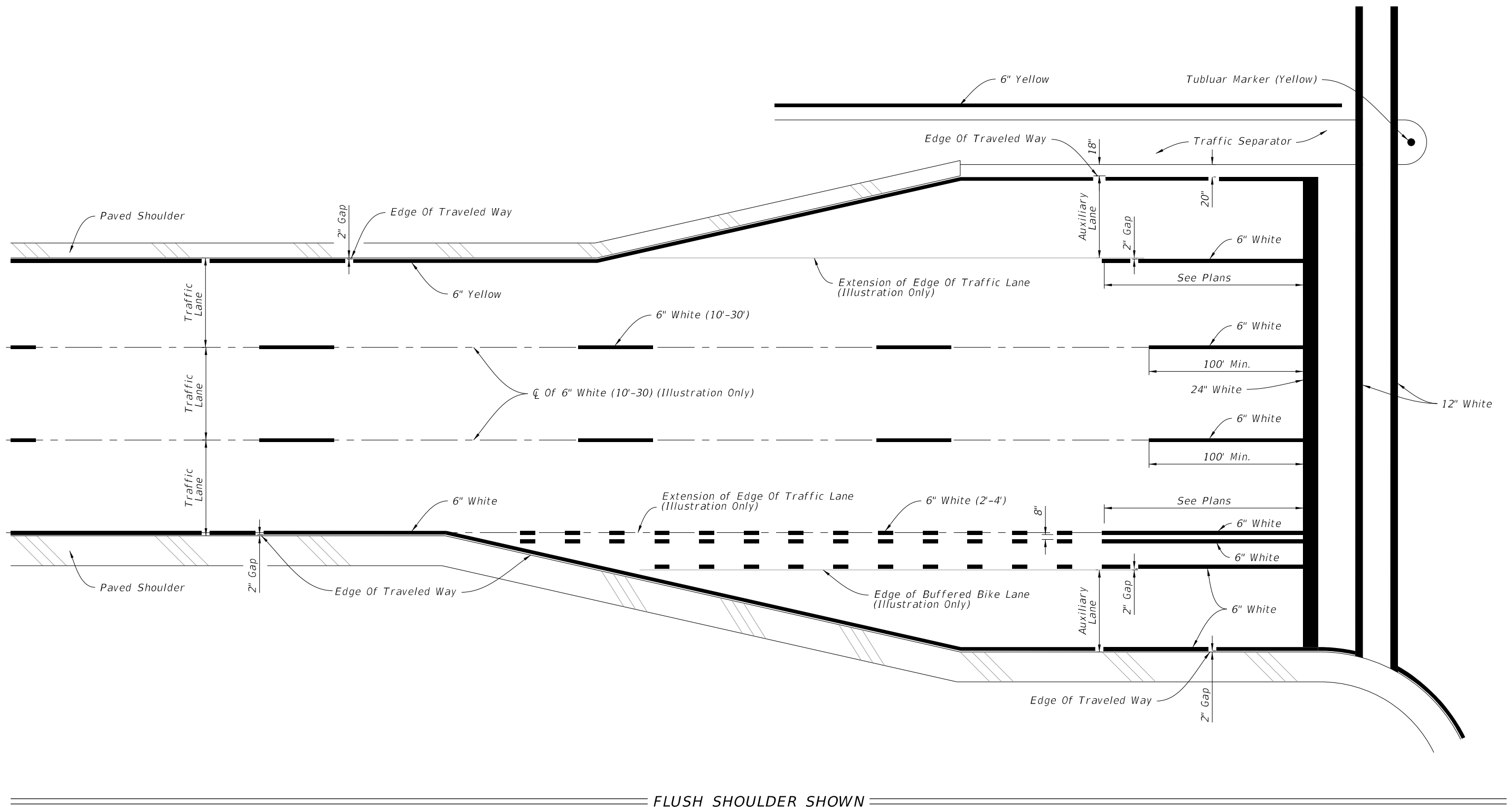
10/7/2022 2:50:19 PM




PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

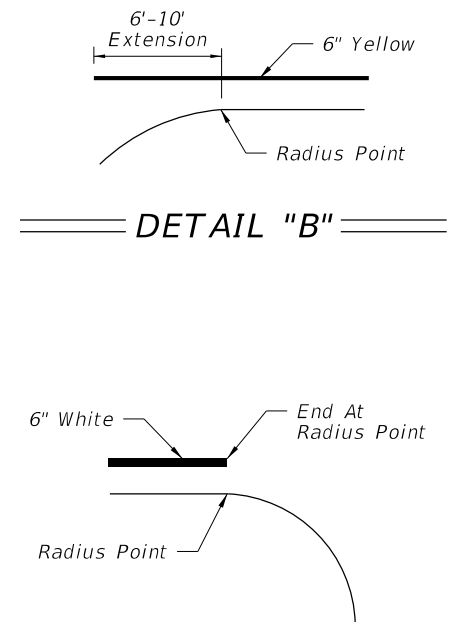
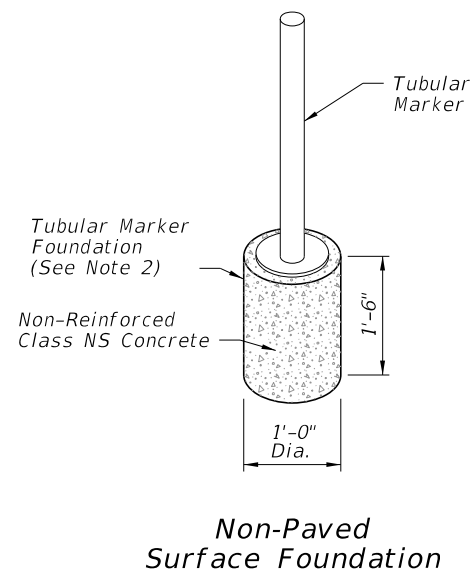
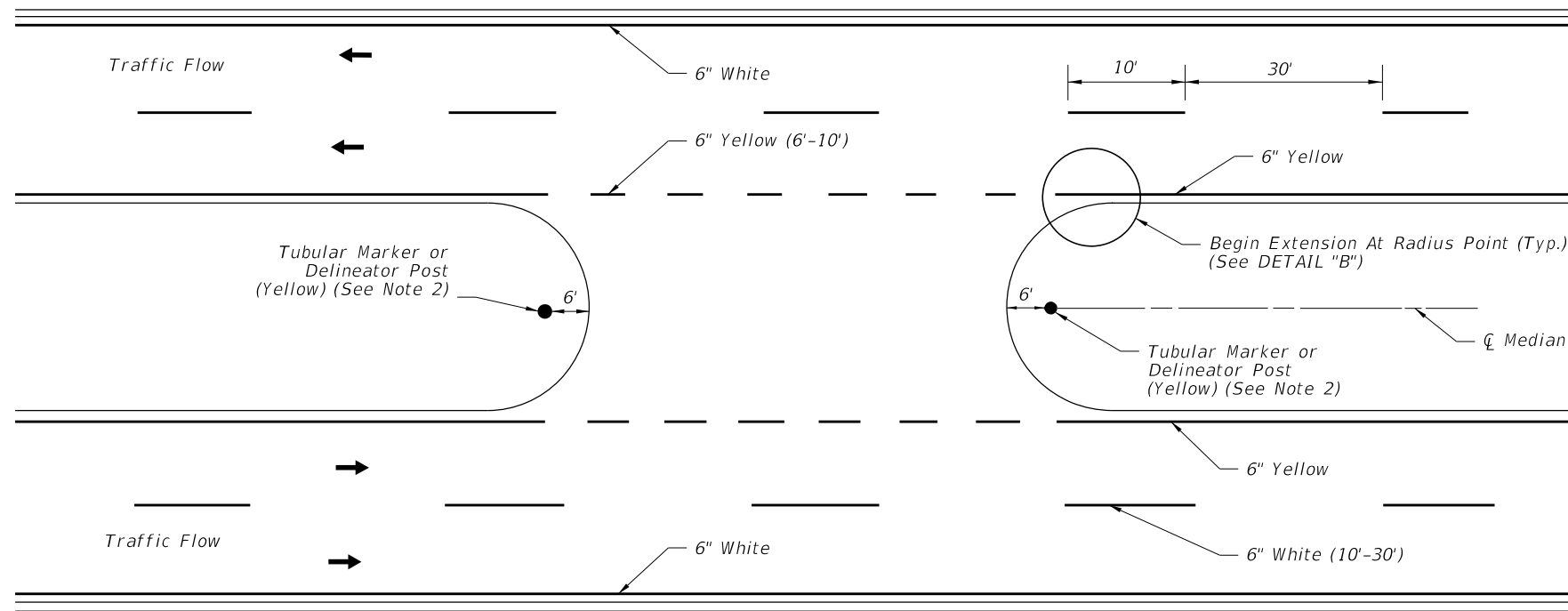
LAST REVISION 11/01/21	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001	SHEET 5 of 13
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10/7/2022 2:50:21 PM



PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

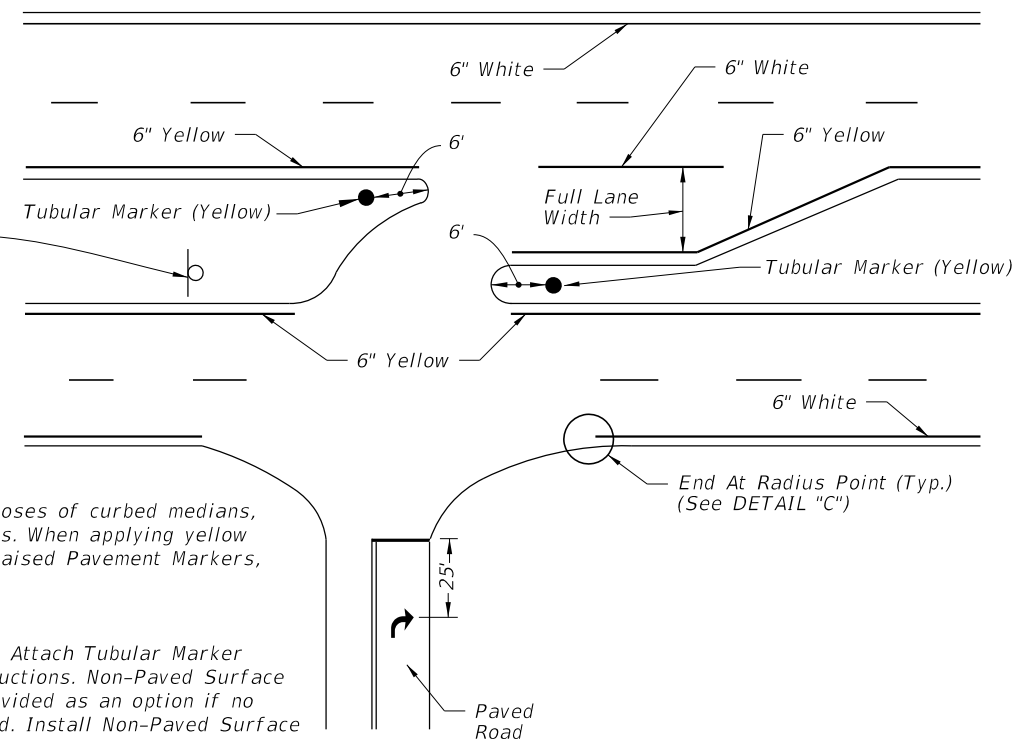
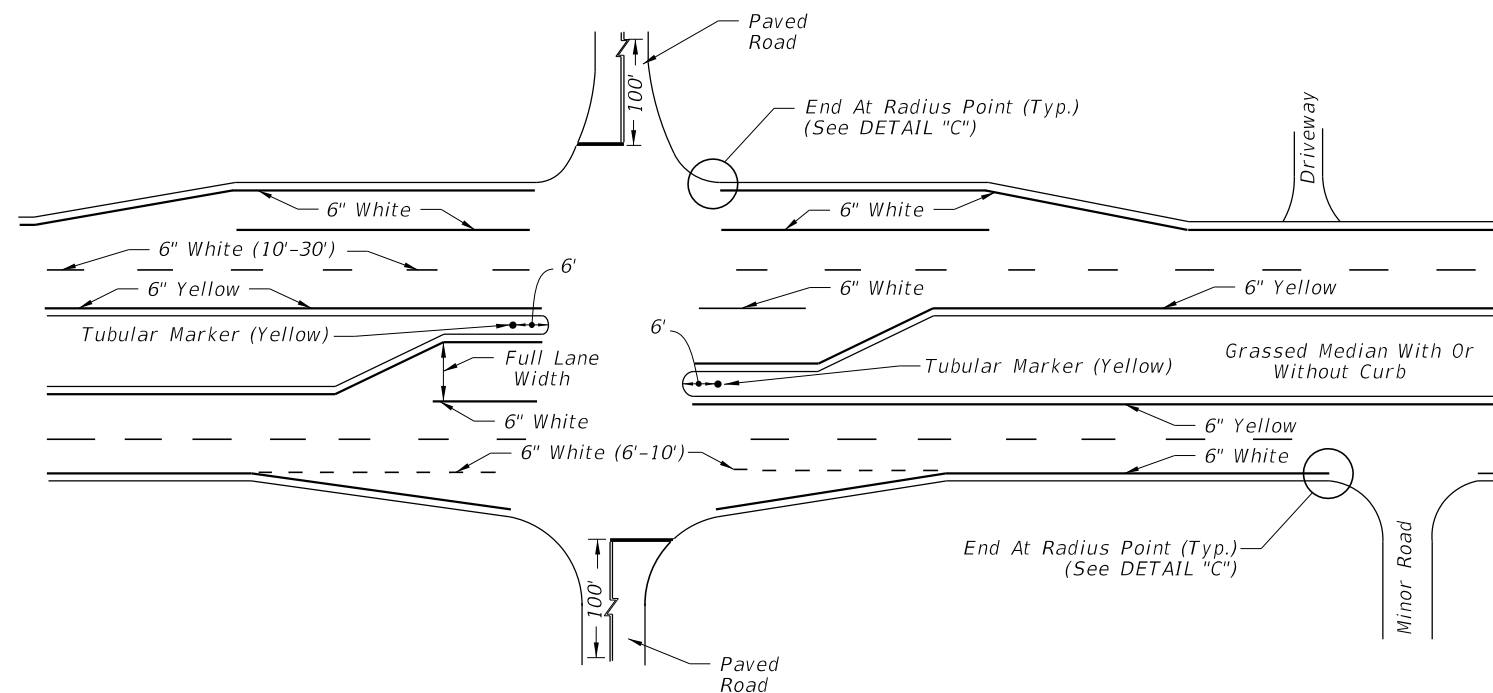
LAST REVISION 11/01/21	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001	SHEET 6 of 13
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PAVEMENT MARKINGS AND DELINEATORS FOR MEDIAN CROSSOVER

DETAIL "A"

DETAIL "C"



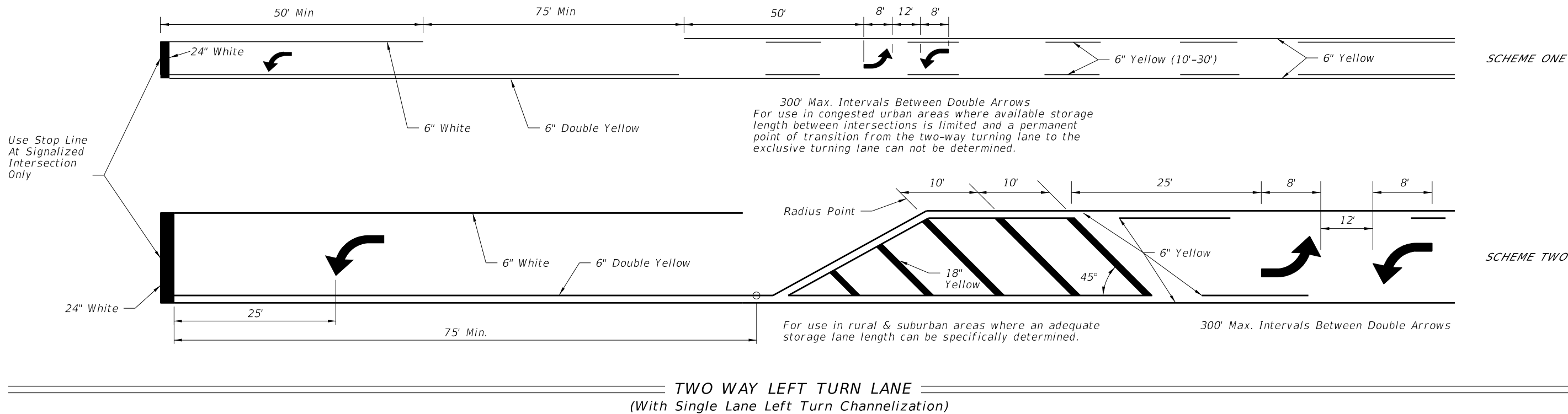
NOTES:

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 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.

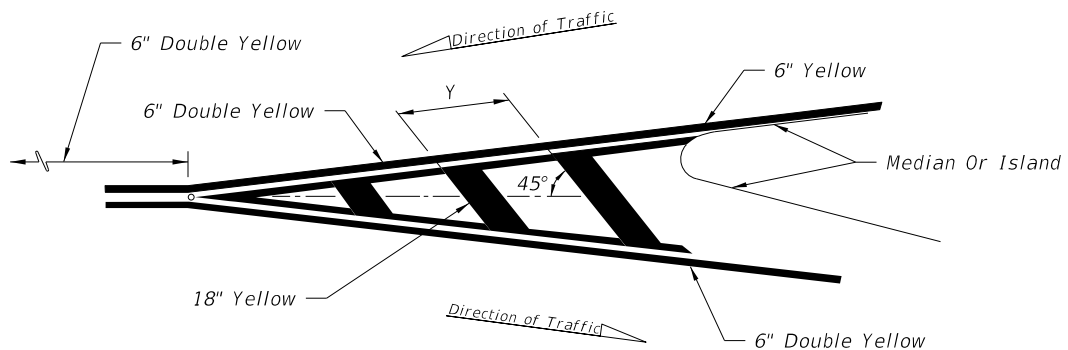
PAVEMENT MARKINGS FOR INTERSECTIONS WITH MAJOR AND MINOR ROADS

10/7/2022 2:50:23 PM

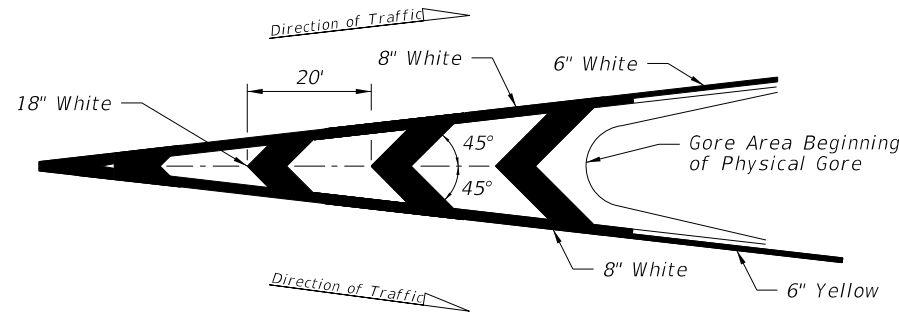
LAST REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	PAVEMENT MARKINGS	INDEX	SHEET
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POSTED SPEED LIMIT MPH	"Y" (FT.)
30 OR LESS	10
35	20
40	20
45	30
50 OR MORE	40



MARKINGS FOR TRAFFIC SEPARATION



TRAFFIC CHANNELIZATION AT GORE



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PAVEMENT MARKINGS

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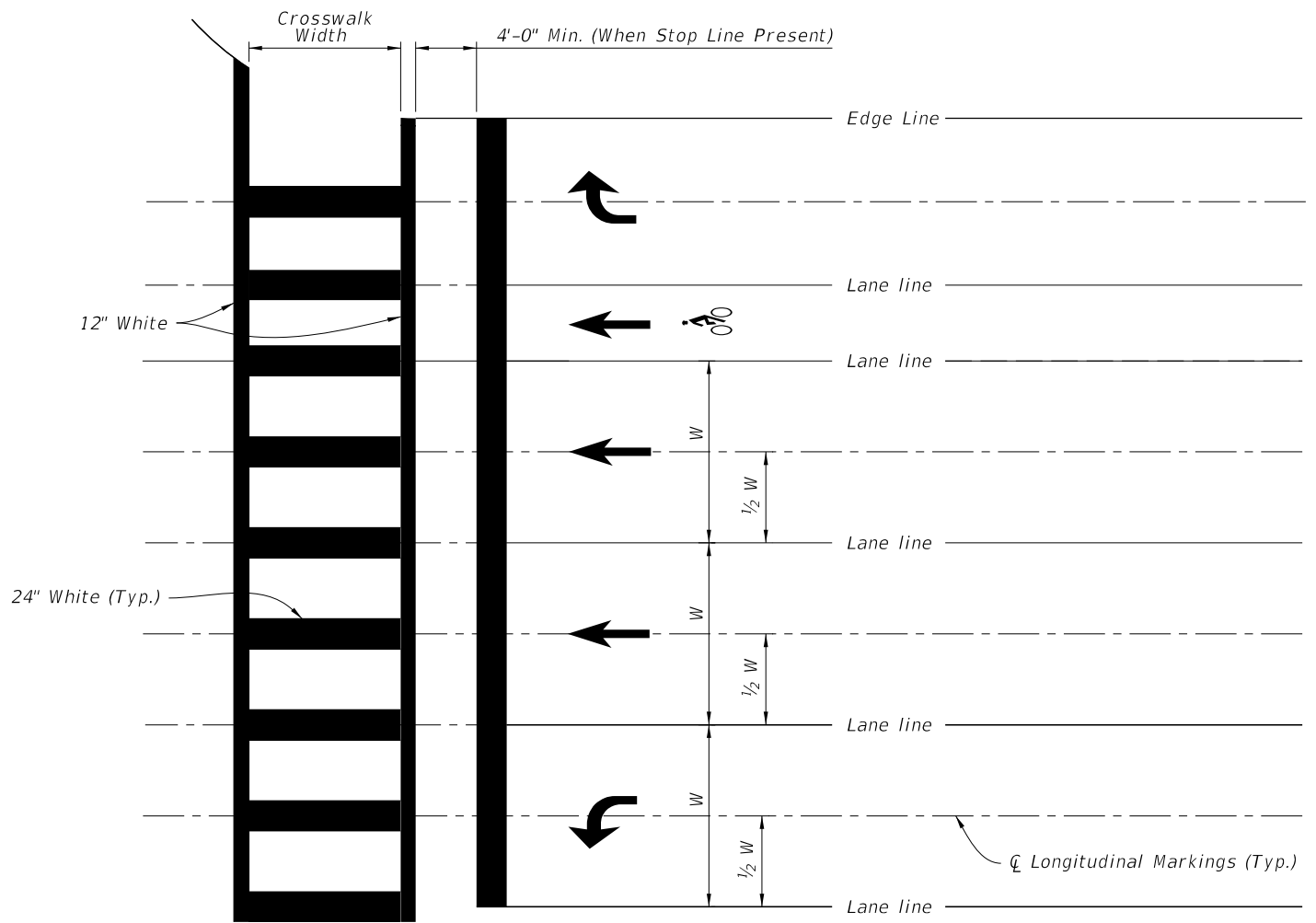
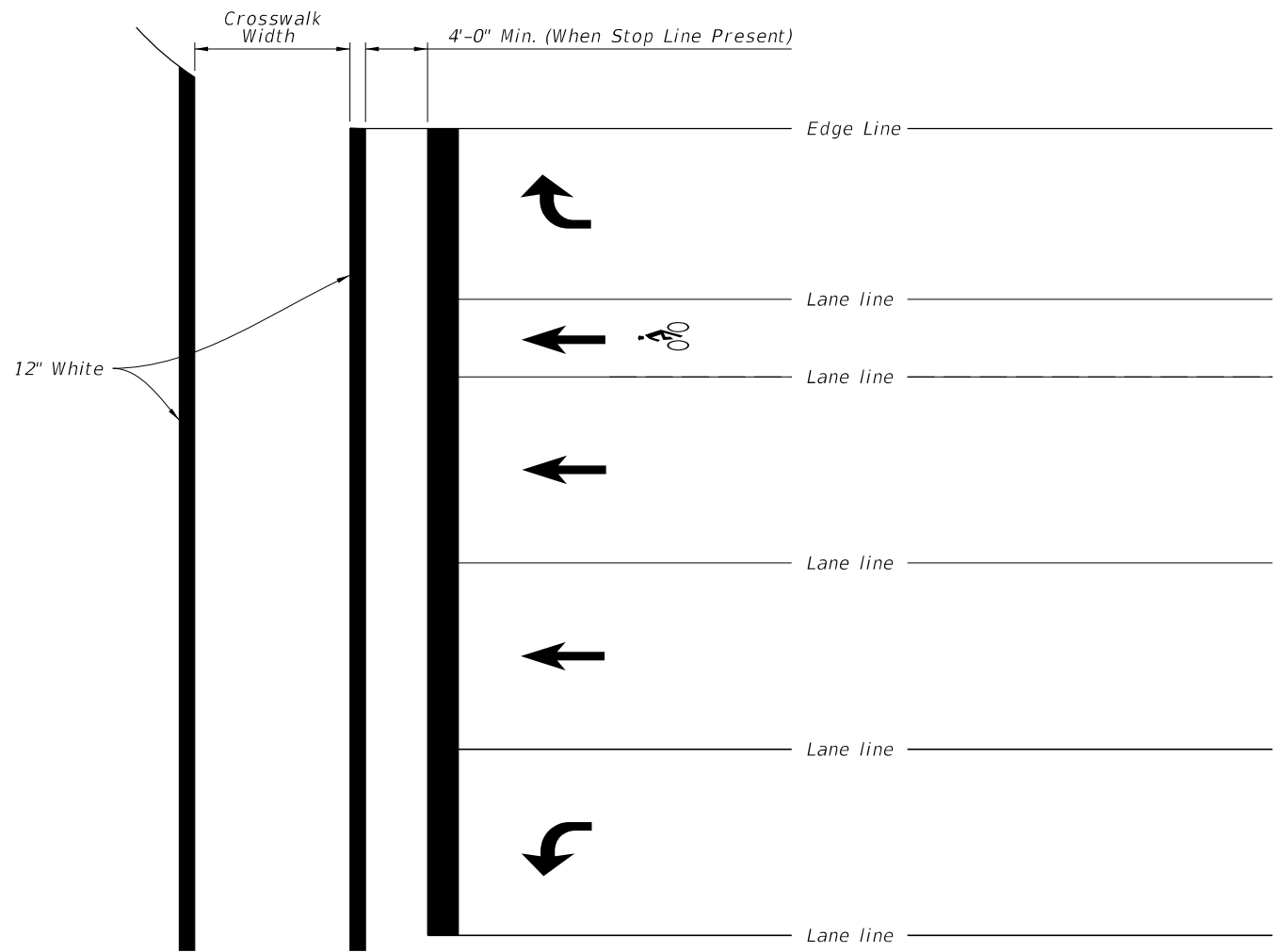
SHEET

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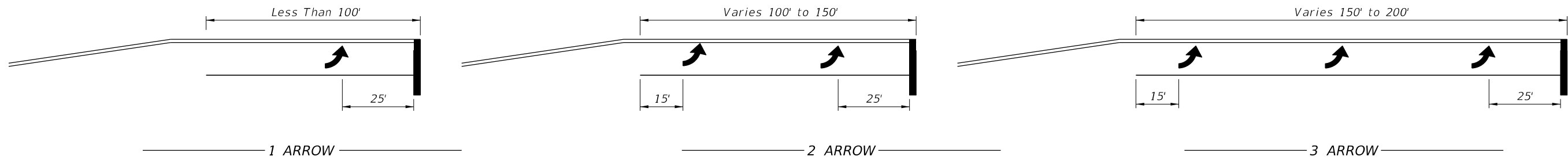
LAST
REVISION
11/01/21

REVISION

DESCRIPTION:

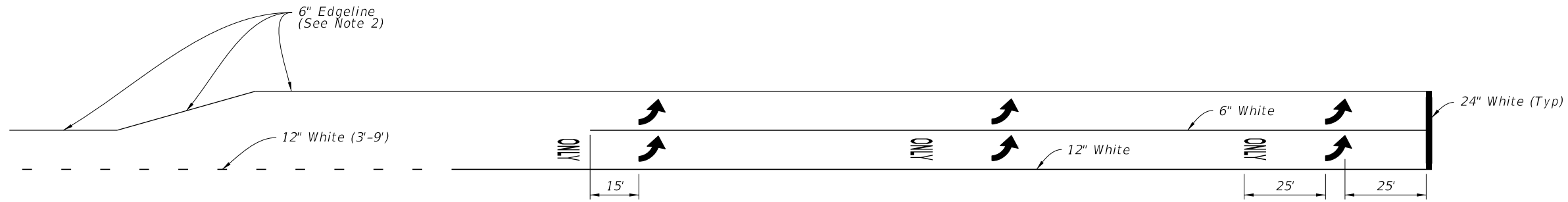


- NOTES:**
- 1. For crosswalk width, exceed width of the adjacent sidewalk, but do not make width less than 6' for intersection crosswalks and 10' for midblock crosswalks. Measure width from the inside of the transverse crosswalk markings.
 - 2. When the Special Emphasis Crosswalk is not perpendicular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

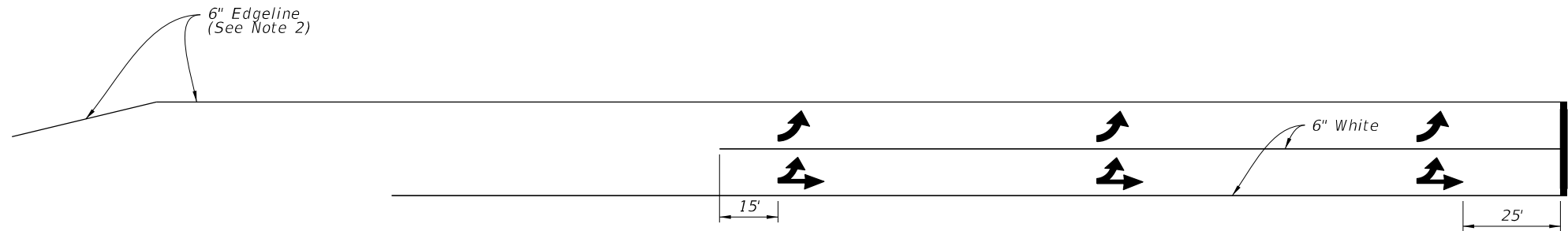


Arrow should be evenly spaced between first and last arrow. Turn lanes longer than 200' add one arrow for each 100' additional length.

ARROW SPACING



Through Lane Becomes Exclusive Left Turn (Drop Lane)



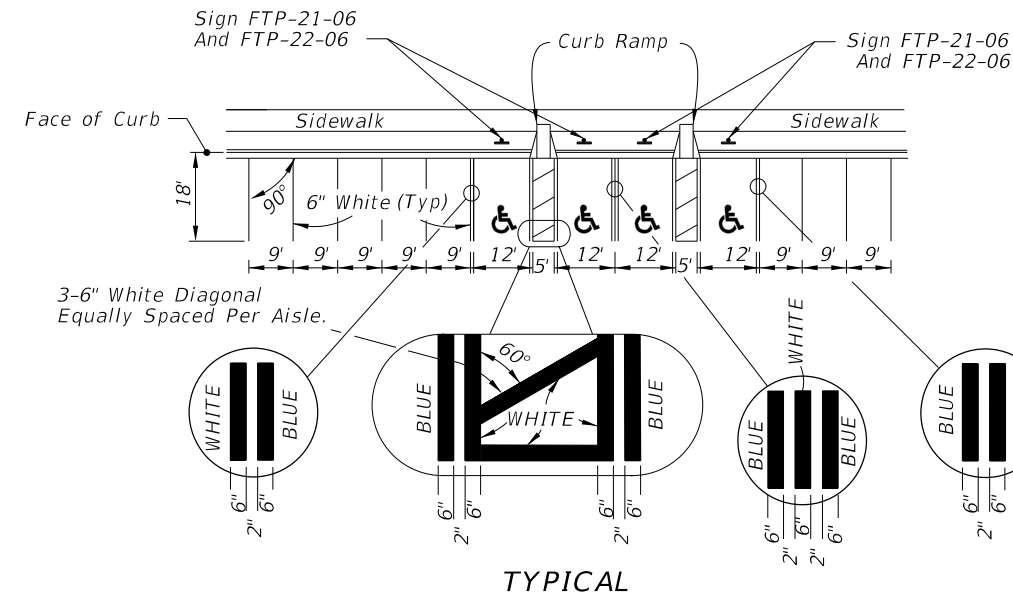
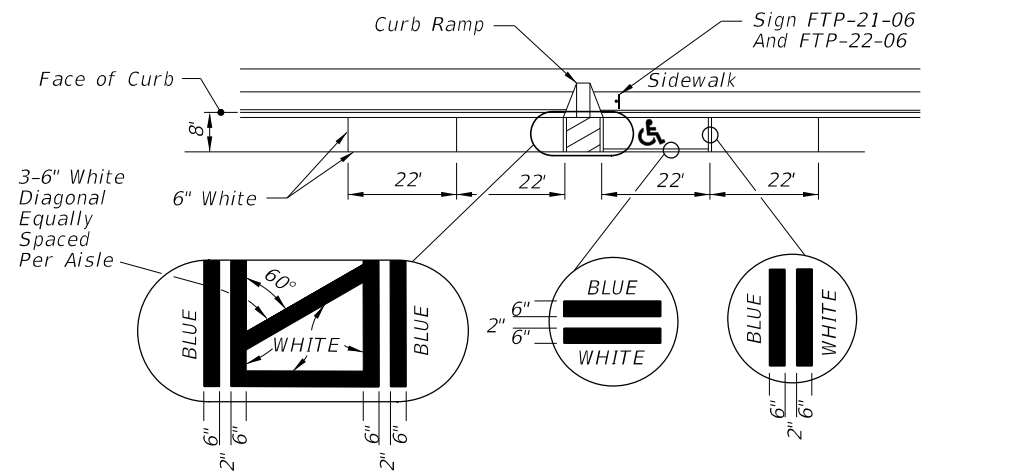
Through Lane Becomes Optional Left Turn

URNS LANE MARKINGS

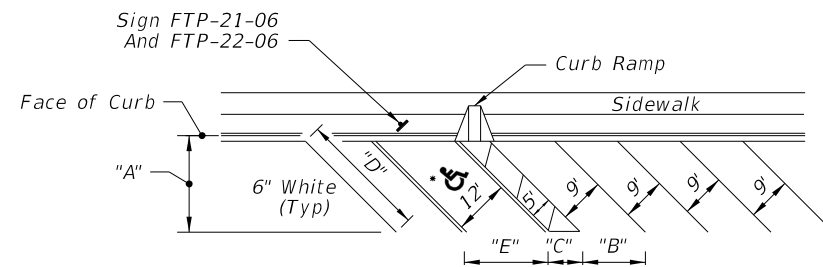
- NOTES:
- 1. This Index also applies to right turn lanes.
 - 2. Make Edgeline pavement markings yellow for left-turn lanes and white for right-turn lanes.

ARROW SPACING AND TURN LANE MARKINGS

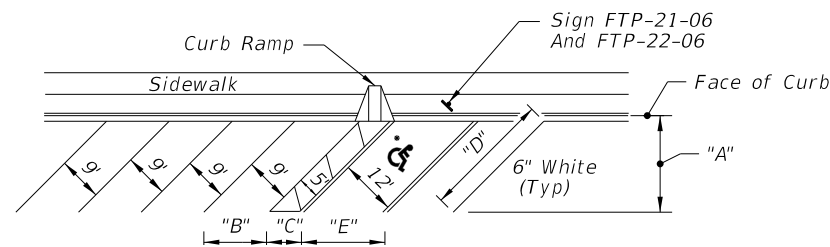
LAST REVISION 11/01/21	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001	SHEET 10 of 13
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TYPICAL



FORWARD-IN PARKING

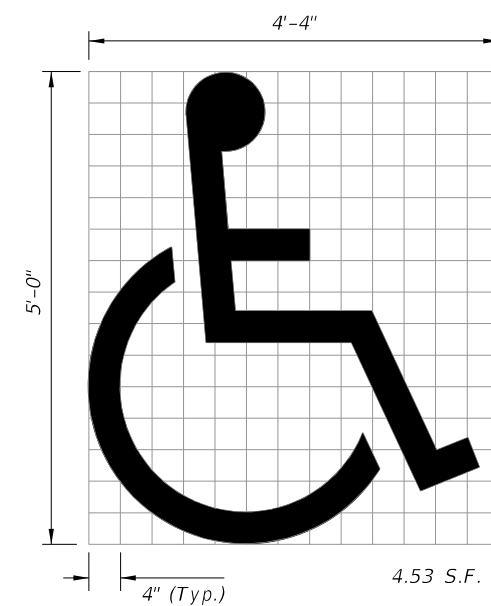
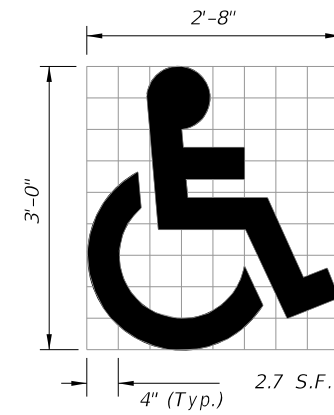


REVERSE-IN PARKING

*FOR ACCESSIBLE MARKINGS - SEE ABOVE

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

PAVEMENT MARKING FOR PARKING



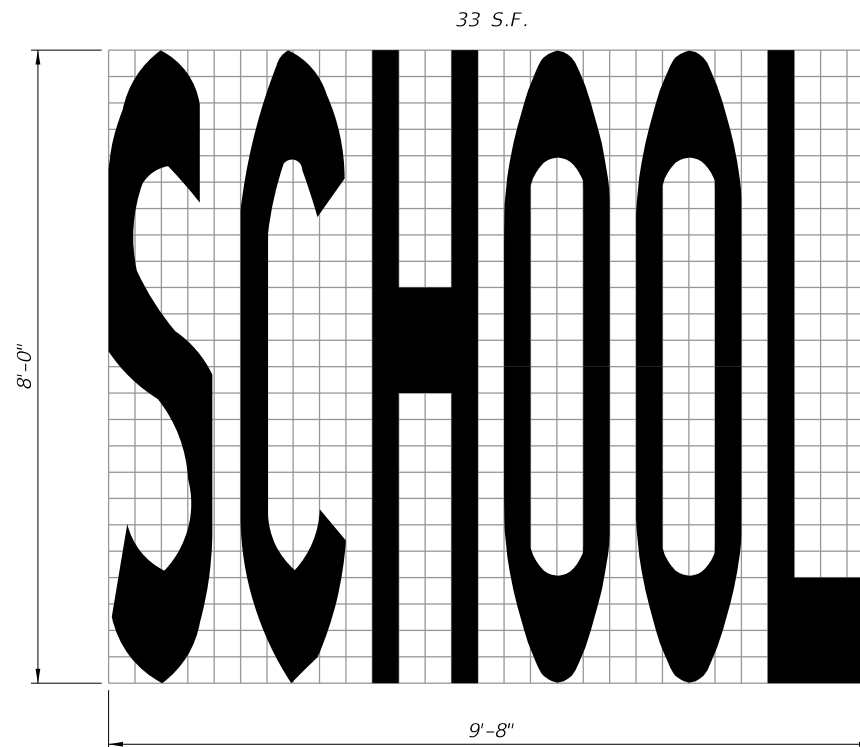
(See Note 5)

UNIVERSAL SYMBOL OF ACCESSIBILITY

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. Mount FTP-22-06 sign below the FTP-21-06 sign.
5. 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.

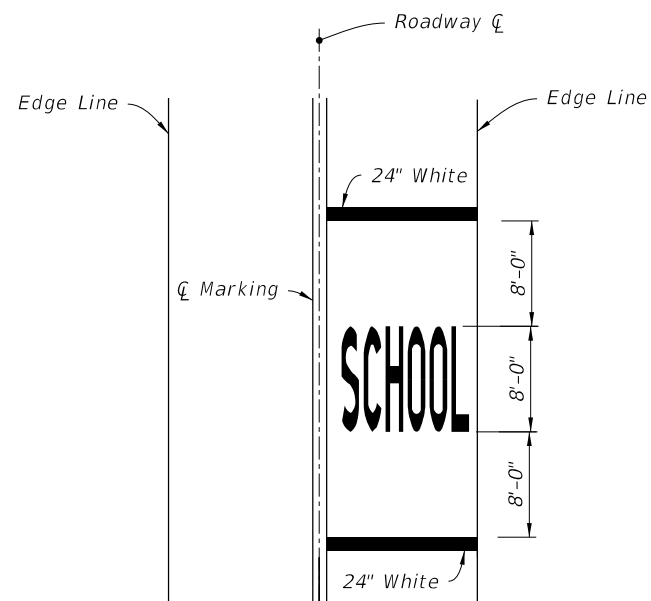
10/7/2022 2:50:33 PM



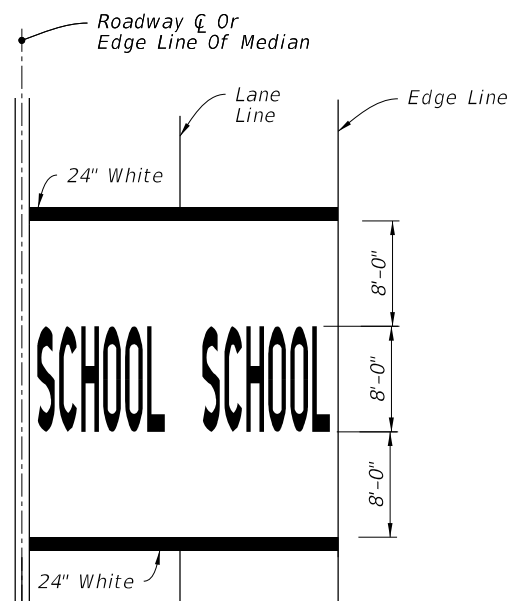
SCHOOL PAVEMENT MARKING

NOTES:

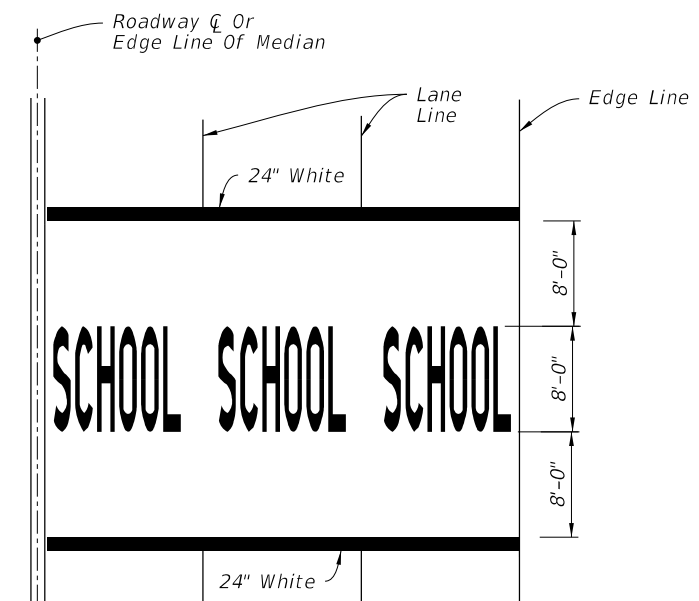
1. All grids are 4" x 4".
2. Pavement Marking Should Not Extend Into Opposing Lane.
3. Center School Pavement Marking in lane.



SINGLE-LANE APPROACH




TWO-LANE APPROACH

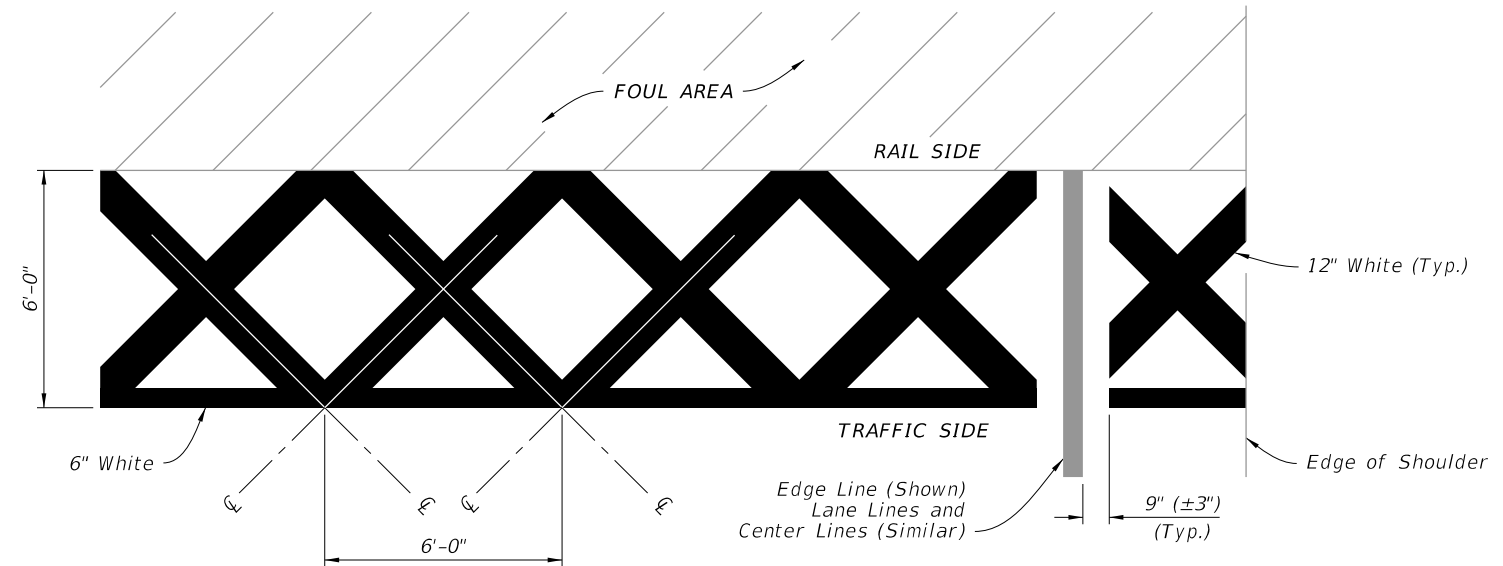


MULTI-LANE APPROACH
(Three or More)

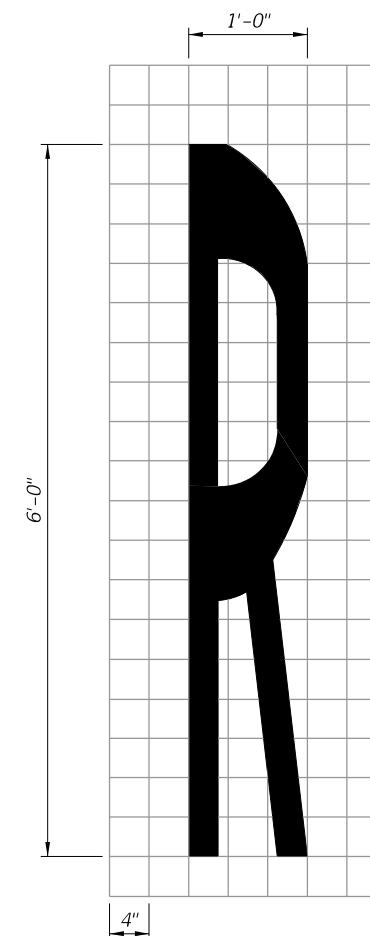
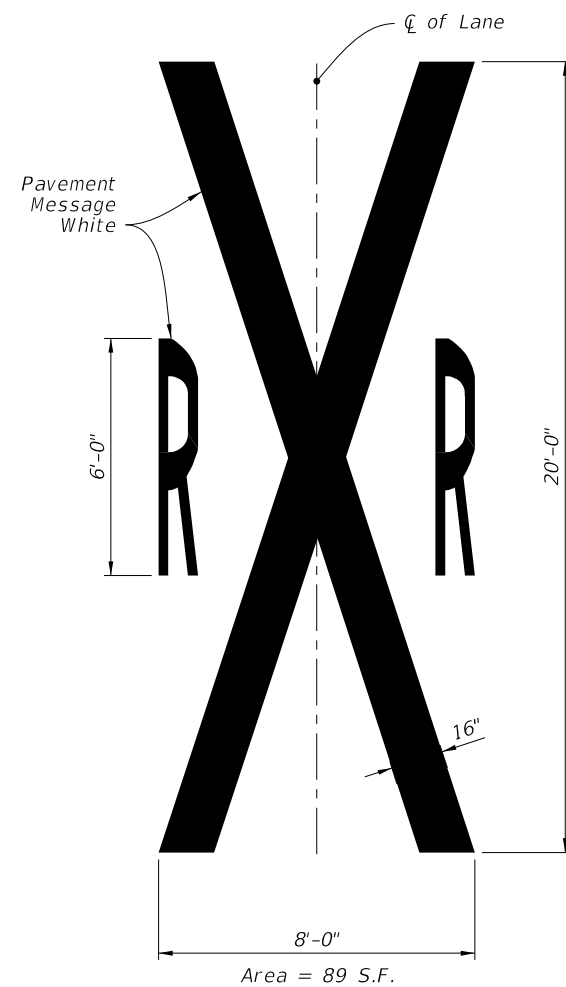
MARKINGS FOR SCHOOL ZONES

LAST REVISION 11/01/21	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001	SHEET 12 of 13
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Orient Railroad Dynamic Envelope Marking as shown in the Plans.



= RAILROAD DYNAMIC ENVELOPE (RDE) PAVEMENT MARKING DETAIL =



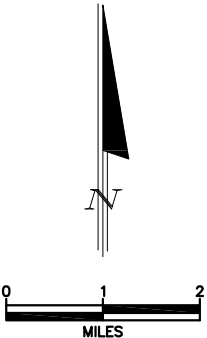
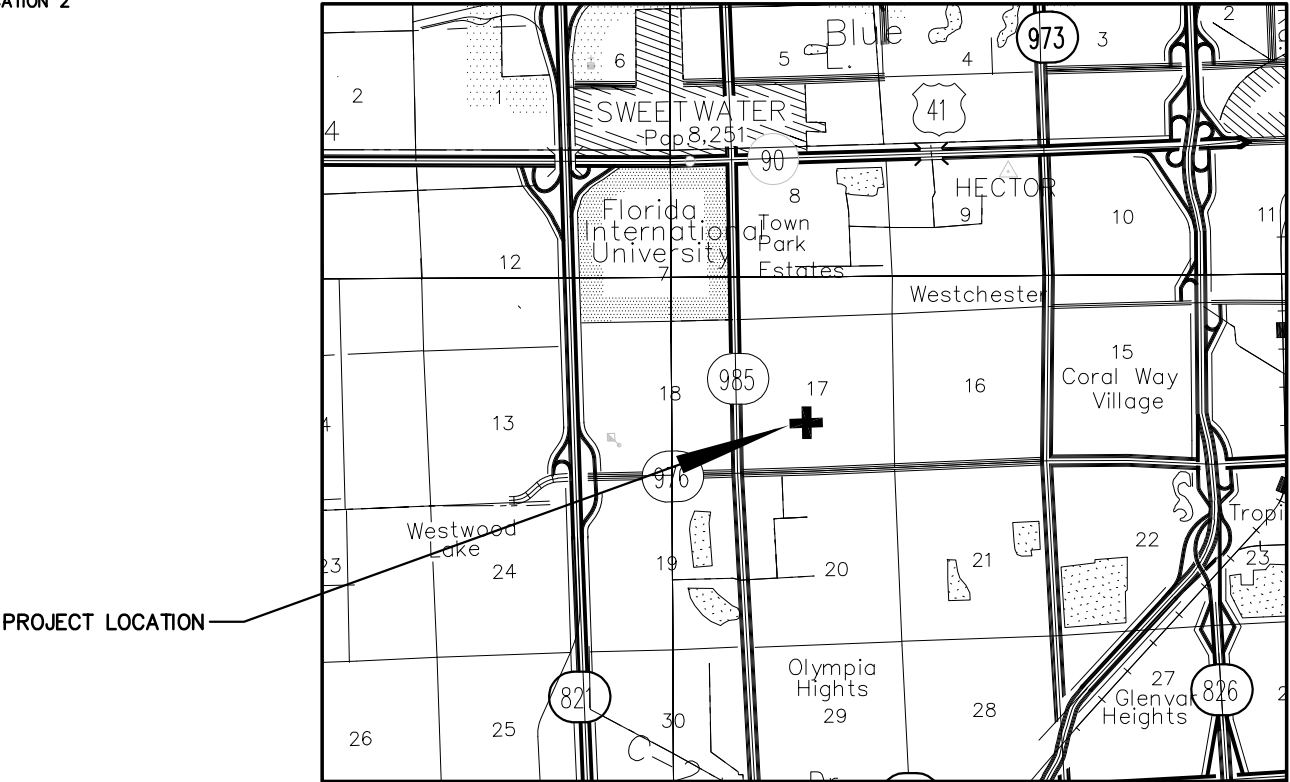
RAILROAD CROSSING PAVEMENT MESSAGE

LIGHTING PLANS FOR PROPOSED
INTERSECTION IMPROVEMENTS TO
SW 109 AVE. & SW 32 ST
MIAMI-DADE COUNTY PROJECT NO. 20220058
RIF DISTRICT 10

INDEX OF SHEETS

SHT. No.	SHEET DESCRIPTION
1	COVER SHEET
2	TABULATION OF LIGHTING QUANTITIES
3	POLE DATA & LEGEND
4	LIGHTING GENERAL NOTES
5-6	LIGHTING PLAN
7	CONDUIT BURIAL DETAILS
8	CONVENTIONAL POLE DETAIL
9	FOUNDATION DETAIL
10	MISCELLANEOUS DETAILS 1
11	SLAB DETAILS FOR INTERMEDIATE PULL BOX LOCATION 1
12	SLAB DETAILS FOR INTERMEDIATE PULL BOX LOCATION 2
13	SERVICE POINT DETAILS
14-16	UTILITY CONFLICT POLE

NOTE:
ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.



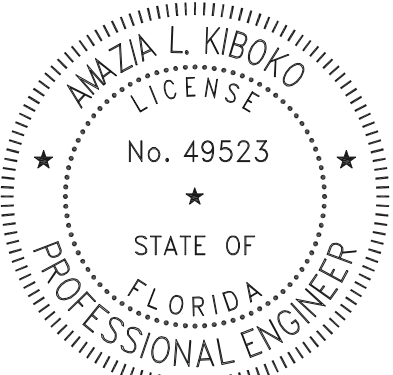
PREPARED FOR



MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY ENGINEERING DIVISION

STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS PARTS 1, 2 AND 3. THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS. THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AS AMENDED BY CONTRACT DOCUMENTS.



THIS ITEM HAS BEEN DIGITALLY SIGNED
AND SEALED BY AMAZIA L. KIBOKO, P.E.
ON THE DATE ADJACENT TO THE SEAL.
PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

APPROVED _____
COUNTY ENGINEER
RECOMMENDED _____
ASSISTANT DIRECTOR
SUBMITTED _____
HIGHWAY ENGINEERING DIVISION

	CHECK	G.L.
DESIGN	A.L.K.	DRAWN E.D.J.
DATE 07-25-24	SHEET 1	OF 16

TABULATION OF LIGHTING QUANTITIES

[illegible]

1. ITEMS 715-1-12 INCLUDE CONDUCTORS AS INDICATED IN THE PLANS, THE FDOT DESIGN STANDARDS, AND MIAMI-DADE COUNTY MAINTENANCE AGENCY SPECIFICATIONS. PAYMENT SHALL BE MADE BASED ON LINEAR FEET OF SINGLE CONDUCTOR. FOR PAY ITEM 715-1-13 INCLUDES 1000 LF FOR SERVICE POINT FEEDER.
2. ITEMS 630-2-11 AND 630-2-12 INCLUDE CONDUIT, ELBOWS, SWEEPS, CONNECTING HARDWARE, TRENCHING AND BACKFILL AS INDICATED IN THE PLANS, THE FDOT DESIGN STANDARDS, AND MIAMI-DADE COUNTY MAINTENANCE AGENCY SPECIFICATIONS. THE LINEAR FOOT PRICE FOR CONDUIT SHALL ALSO INCLUDE THE COST OF RESTORING CUT PAVEMENT, SIDEWALKS, SOD, ETC., TO ITS ORIGINAL OR BETTER CONDITION. SOD SHALL BE REPLACED IN LIKE KIND OF THE ADJACENT SURROUNDINGS.
3. ITEM 715-7-11 INCLUDES SERVICE POLE INSULATORS, WEATHERHEADS, TRANSFORMERS, ENCLOSURES, PANELBOARDS, BREAKERS, FUSES, LIGHTNING PROTECTOR, PHOTO-ELECTRIC ASSEMBLY, CONDUIT, FEEDER CONDUCTORS, PULLBOX, AND MISCELLANEOUS HARDWARE FOR A COMPLETE INSTALLATION AS PER PLANS AND MIAMI-DADE COUNTY STANDARD SERVICE POINT DETAIL. ALSO INCLUDES THE COST OF FURNISHING AND INSTALLING TYPE N-11 CONCRETE POLE.
4. ITEM 715-500-1: THE POLE CABLE DISTRIBUTION SYSTEM (PCDS) SHALL BE INSTALLED IN THE PULLBOX ADJACENT TO THE LIGHT POLE AND SHALL BE OF THE MODULAR SUBMERSIBLE TYPE AS PER THE STANDARD SPECIFICATIONS AND DESIGN STANDARD CABLE DISTRIBUTION.
5. ITEM 715-4-13 INCLUDES THE POLE, BRACKET ARM, LUMINAIRE WITH LAMP, ANCHOR BOLTS WITH LOCK NUTS AND WASHERS, FRANGIBLE BASE, FOUNDATION AND SURGE PROTECTOR AS INDICATED IN THE DESIGN STANDARDS. THE COST OF RESTORING SOD IN LIKE KIND OF THE ADJACENT SURROUNDINGS, AROUND EACH POLE, TO ITS ORIGINAL OR BETTER CONDITION IS INCLUDED IN THIS PAY ITEM WHEN APPLICABLE.
6. 20% ADDITIONAL LIGHT POLE ASSEMBLIES TO BE DELIVERED TO THE TSS WAREHOUSE AND/OR YARD. THE 20% IS ALREADY ADDED INTO THE SUMMARY OF QUANTITIES.

[illegible]

GOAL ASSOCIATES INC.
Certificate of Authorization No.: 30697
14750 NW 77th Court, Suite 320
Miami, Florida 33016 (786)-600-3350
AMAZIA L. KIBOKO, P.E., PTOE.
P.E License No. 49523

	NAME	DATE		NAME	DATE
DESIGNED BY			DRAWN BY		
CHECKED BY			CHECKED BY		
SUPERVISED BY:					



DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

TABULATION OF LIGHTING QUANTITIES

[illegible]

PROPOSED LOAD CENTER. SEE SHEET L-6 FOR DETAILS.

POLE DATA & LEGEND

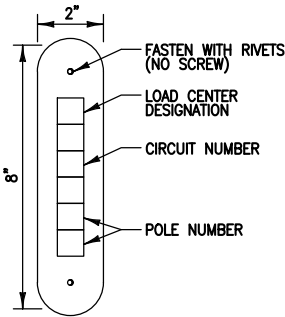
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

LIGHTING GENERAL NOTES

- POWER COMPANY SHALL PROVIDE INCOMING SERVICE AT LOCATION SPECIFIED IN ACCORDANCE WITH THE PLANS. THE DATE REQUIRED FOR INCOMING SERVICE TO BE COMPLETED MUST BE COORDINATED BY THE CONTRACTOR WITH THE POWER COMPANY AT THE PRE CONSTRUCTION MEETING.
- ALL EXPOSED CONDUIT OR SURFACE MOUNTED CONDUIT SHALL BE GALVANIZED STEEL AND GROUNDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND STRUCTURAL CONFLICTS IN COOPERATION WITH THE UTILITY COMPANY(S).
- STATIONING MAY BE ADJUSTED AS DIRECTED TO AVOID UTILITY OR STRUCTURAL CONFLICTS NOT INDICATED IN THE PLANS.
- SIDEWALK SLABS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN FULL AND COLORED WHEN NECESSARY TO MATCH THE EXISTING SIDEWALK.
- CONTRACTOR MUST MAINTAIN THE EXISTING LIGHTING SYSTEM IN OPERATION OR SUPPLY A TEMPORARY ONE UNTIL THE NEW LIGHTING SYSTEM CAN BE ACTIVATED. IF THE EXISTING LIGHTING SYSTEM IS OWNED BY F.P.&L, SEE FDOT SPECIFICATION FOR ROADWAY LIGHTING SPECIAL PROVISIONS, SECTION 715. THIS ITEM SHALL INCLUDED IN PAY ITEM #102-1, MIANTENANCE OF TRAFFIC.
- ALL MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE UNDERWRITERS LABORATORY APPROVED.
- POLES, BRACKET ARMS, AND TRANSFORMER BASES SHALL BE ALUMINUM AND DESIGNED IN ACCORDANCE WITH LOCAL DESIGN CRITERIA USING THE APPLICABLE EQUATIONS FOUND IN THE AASHTO PUBLICATION "STANDARD SPECIFICATIONS FOR HIGHWAY, SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS," CURRENT EDITION.
- THE WIRES AT THE POLE, HANDHOLE, AND PULL BOXES SHALL BE LOOPED AS INDICATED IN THE PLAN DETAIL WITH SUFFICIENT LENGTH TO COMPLETELY REMOVE CONNECTORS TO THE OUTSIDE, TO MAKE THEM ACCESSIBLE FOR CHANGING FUSES AND TROUBLE SHOOTING THE SYSTEM.
- THE LUMINAIRE MANUFACTURER SHALL PLACE A PERMANENT TAG ON THE LUMINAIRE HOUSING ON WHICH IS IMPRINTED THE FOLLOWING INFORMATION: WATTAGE, BALLAST TYPE, LAMP SHOWN ON DESIGN PLANS, LAMP SETTING (POSITION IN LUMINAIRE), I.E.S., LIGHT DISTRIBUTION WITH THIS LAMP IN THE POSITION SPECIFIED, INPUT VOLTAGE AND POWER FACTOR, LUMINAIRE PHOTOMETRIC SUBMITTALS REQUIRED.
- GROUND RODS SHALL HAVE A RESISTANCE TO GROUND NOT TO EXCEED 25 OHMS. WHERE THE RESISTANCE IS NOT AS LOW AS 25 OHMS, TWO OR MORE GROUND RODS CONNECTED IN PARALLEL SHALL BE USED.
- CONTRACTOR WILL INCLUDE IN THE COST OF THE LIGHTING POLE ANY LEVELING AND GRADING REQUIRED TO INSURE THAT ALL POLES ARE INSTALLED AT THE PROPER ELEVATION.
- ALL SALVAGEABLE MATERIALS AND ALL MATERIALS TO BE FURNISHED BY THE CONTRACTOR SHALL BE TRANSPORTED AND OFF LOADED TO THE FOLLOWING LOCATION FOR INSPECTION AND ACCEPTANCE BY THE COUNTY:
MIAMI-DADE COUNTY MAINTENANCE YARD
7100 NW 36th STREET
MIAMI, FL 33166
TELEPHONE: (305) 592-3580
- CONTRACTOR MUST CONTACT AT&T, FP&L, AND OTHER UTILITY COMPANIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND MUST NOTIFY ENGINEER AND MIAMI-DADE COUNTY IF FIELD CONDITIONS DIFFER FROM CONDITIONS INDICATED ON THESE DRAWINGS.
- IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (N.E.C.) OR WITH THE MIAMI-DADE COUNTY STANDARDS, THE CONTRACTOR MUST IDENTIFY ALL CIRCUITS AND EQUIPMENT INCLUDING THE PROPOSED LIGHT POLE ASSEMBLIES.
- PULL BOXES, JUNCTION BOXES, AND ALL ELECTRICAL WORK MUST CONFORM TO N.E.C. (LATEST REQUIREMENTS), THE NATIONAL ELECTRICAL SAFETY CODE AND MIAMI-DADE COUNTY STANDARDS.
- USE PVC SCHEDULE 40 CONDUIT THROUGHOUT THE ENTIRE UNDERGROUND SYSTEM, AT STREET CROSSINGS THE CONDUIT SHOULD BE EMBEDDED IN 1:10 CONCRETE MIXTURE.
- ANY INCIDENTAL ITEMS OR ACCESSORIES REQUIRED TO COMPLETE THE WORK FOR A GIVEN BID ITEM, SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THAT SPECIFIC ITEM AS INDICATED IN THE BID FORM. INCIDENTAL ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO: ELBOWS, SPLIT BOLT CONNECTORS, FUSES AND FUSE HOLDERS, ELECTRICAL TAPE, SCOTCHKOTE, PVC GLUE, TRENCHING, BACKFILLING, PAVEMENT RESTORATION, CONCRETE SLAB REPLACEMENT, ETC.
- POLES SHALL HAVE A FRANGIBLE TRANSFORMER BASE.
- ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMICALLY WELDED FOLLOWING THE MANUFACTURER'S GUIDELINES.
- CONTRACTOR MUST MINIMIZE TRENCHING ACROSS STREETS BY COORDINATING THE LIGHT PLANS WITH THE SIGNALIZATION INTERCONNECT CONDUIT/WIRING AS DEPICTED ON THESE DRAWINGS.
- MAINTAINING AGENCY FOR LIGHTING IS MIAMI-DADE COUNTY. CONTRACTOR MUST CONTACT/COORDINATE WITH APPLICABLE COUNTY OFFICIALS AND INSPECTORS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN SAFE ACCESS TO SIDE STREETS, PRIVATE, AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION.
- ALL CONDUIT TRENCHING MUST BE PROPERLY BACKFILLED TO PROVIDE SAFE CROSSING AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ONE BECOMES INACTIVE.
- THE CONTRACTOR MUST EXERCISE EXTREME CAUTION WHEN WORKING THE VICINITY OF EXISTING AND PROPOSED UNDERGROUND AND OVERHEAD UTILITIES.
- ALL UNDERGROUND PHASE CONDUCTORS SHALL BE RHH-RHW-XLP.
- ALL CONDUITS THAT WILL REMAIN EMPTY AS SPARES SHALL BE CLEANED INSIDE AND BOTH ENDS CAPPED. PLACE PULLBOXES AT THE ENDS OF THE CONDUITS.
- ELECTRONIC SIGNED/SEALED AS-BUILD BY THE EOR TO BE PROVIDED TO THE COUNTY PM. CONTRACTOR TO GIVE GPS COORDINATE FILE FOR BOTH LIGHT POLES AND LOAD CENTER TO THE COUNTY PM. IN ADDITION TO THE GPS COORDINATES, ADDITIONAL ATTRIBUTES FOR THE PROJECT ARE TO BE SUBMITTED BUT WILL NEED TO BE COORDINATED WITH COUNTY STAFF FOR THE COUNTY ARCGIS DATA.
- TRIM ALL TREES IN CONTACT WITH PROPOSED LIGHT POLES. ANY TREES TRIMMING TO BE PAID UNDER PAY ITEM 580-8-1.

SIGNALIZED INTERSECTION & ROUNDABOUT

- HORIZOTNAL ILLUMINATION 1.5 TO 3.0 F.C.
- UNIFORMITY RATIO (3.0 : 1 TO 4.0 : 1)
- MAXIMUM TO MINIMUM RATIO (LESS THAN 10 : 1)
- VERTICAL ILLUMINATION 1.0 TO 1.5 F.C.
- UNIFORMITY RATIO N/A
- MAXIMUM TO MINIMUM RATIO N/A



POLE IDENTIFICATION TAG DETAIL
SEE NOTES BELOW

NOTES:

1-FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY LIGHTING STANDARD. TAGS SHALL BE 2" X 8" IN SIZE WITH BLACK LETTERS ON YELLOW BACKGROUND, ATTACHED WITH RIVETS (NO SCREWS). NUMBERS SHALL BE AS SHOWN ON THE POLE IDENTIFICATION TAG DETAIL. TAG SHALL BE PLACED 5' ABOVE GRADE FACING TRAFFIC (WHEN PRACTICABLE).

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



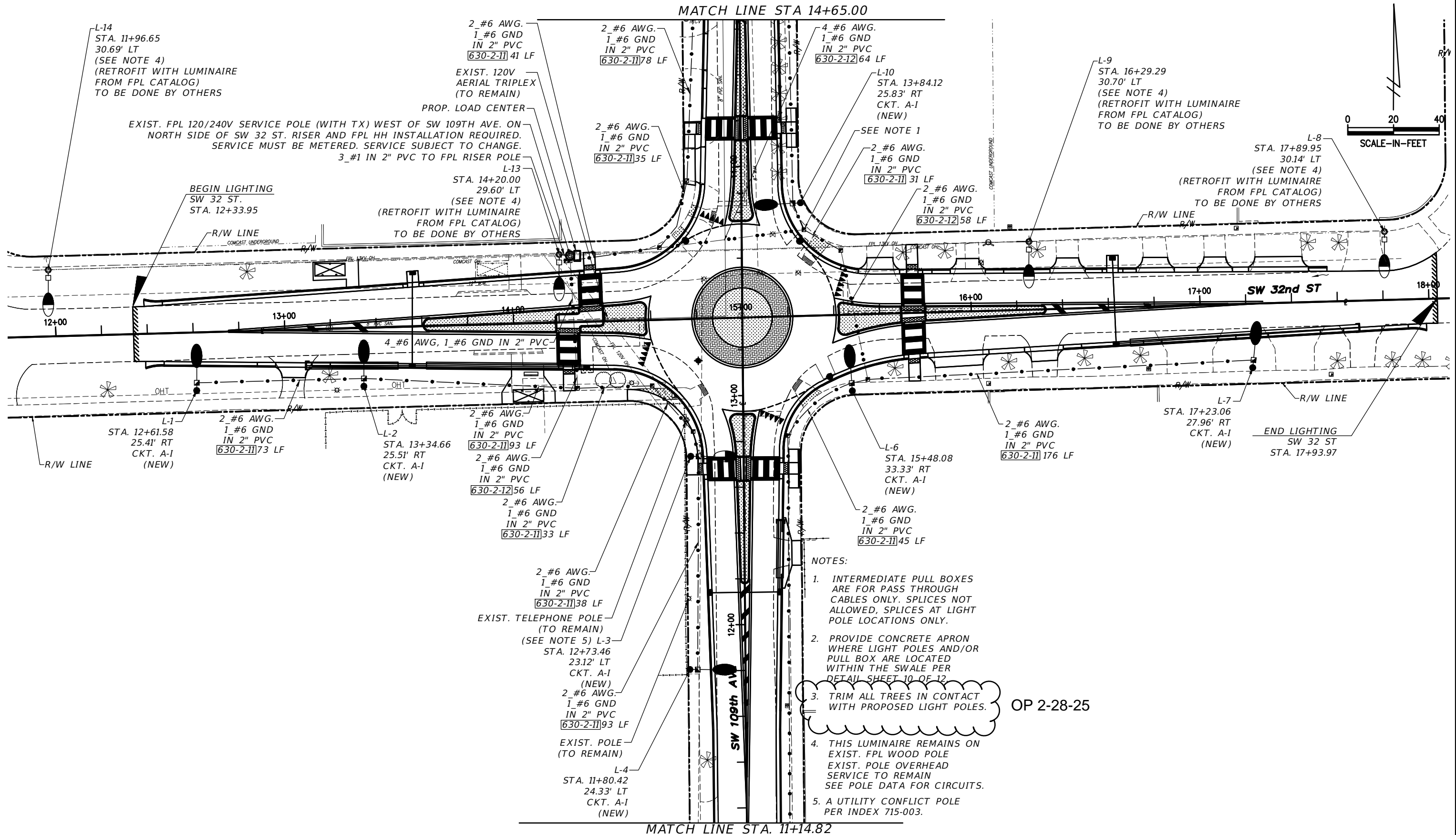
GOAL ASSOCIATES INC.
Certificate of Authorization No.: 30697
14750 NW 77th Court, Suite 320
Miami, Florida 33016 (786)-600-3350
AMAZIA L. KIBOKO, P.E., PTOE.
P.E License No. 49523

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY:					



DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK, CENTER
101 NW 1 ST
MIAMI, FLORIDA 33128

LIGHTING GENERAL NOTES



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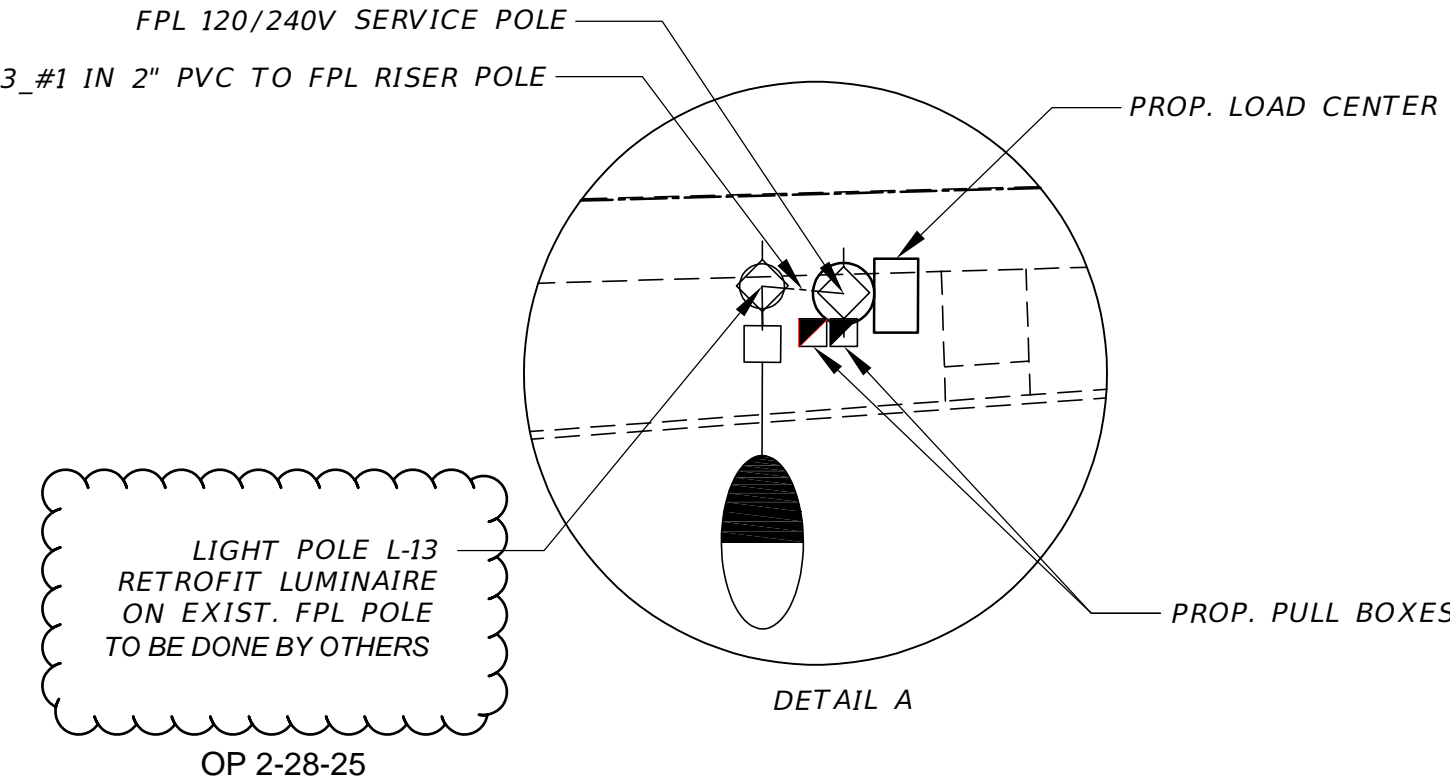
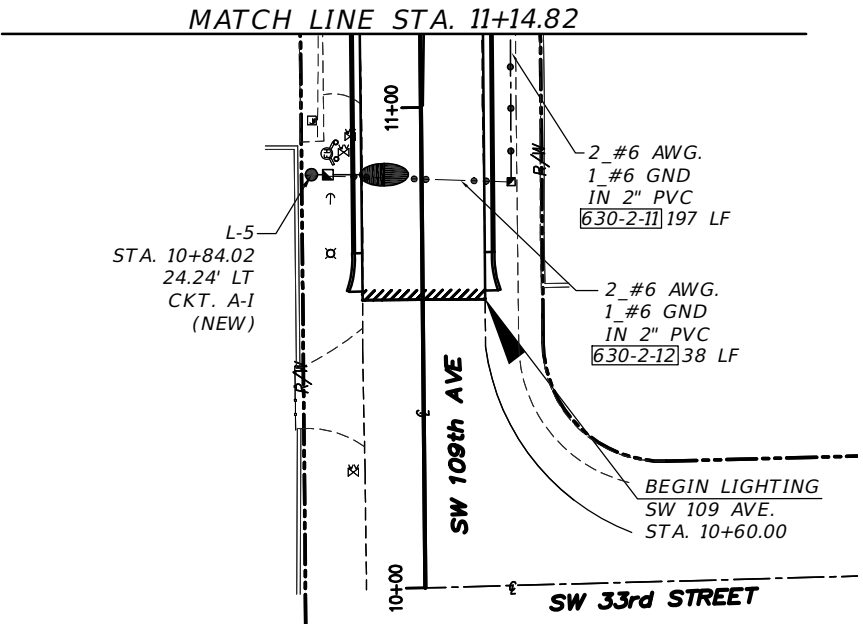
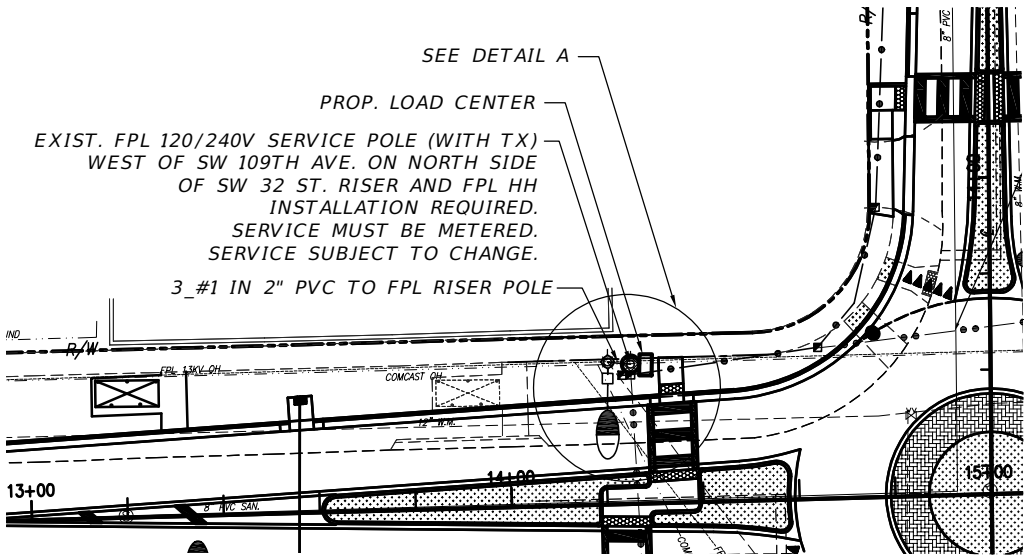
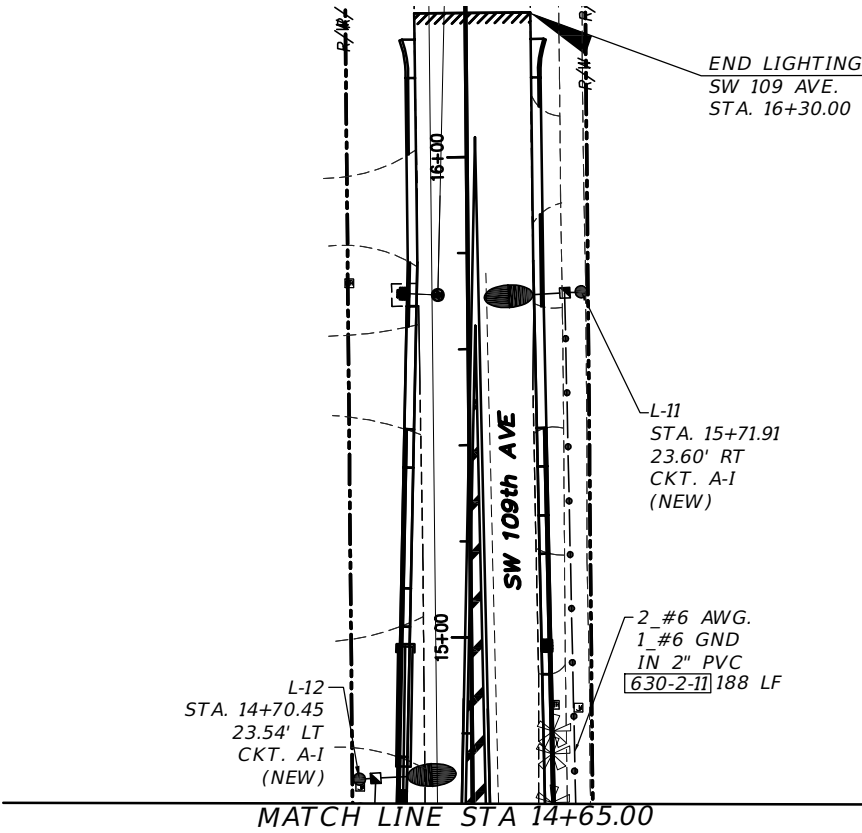
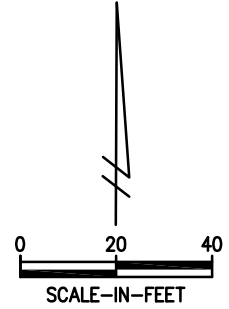
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Miami, Florida 33016 (786)-600-3350
AMAZIA L. KIBOKO, P.E., PTOE.
P.E. License No. 49523

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERSEDED BY					

MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK, CENTER
111 NW 1 ST.
MIAMI, FLORIDA 33128

LIGHTING PLAN



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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

GOAL ASSOCIATES INC.
Certificate of Authorization No.: 30697
14750 NW 77th Court, Suite 320
Miami, Florida 33016 (785) 600-3350
AMAZIA L. KIBOKO, P.E., PTOE.
P.E. License No. 49523

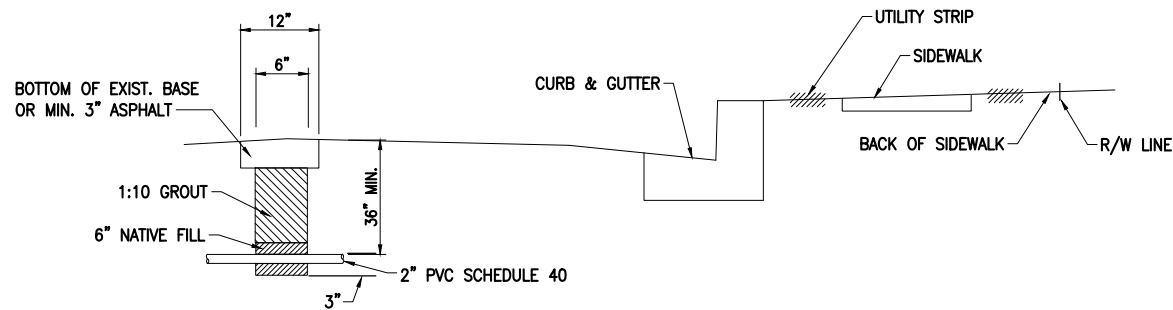
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK, CENTER
111 NW 1 ST.
MIAMI, FLORIDA 33128

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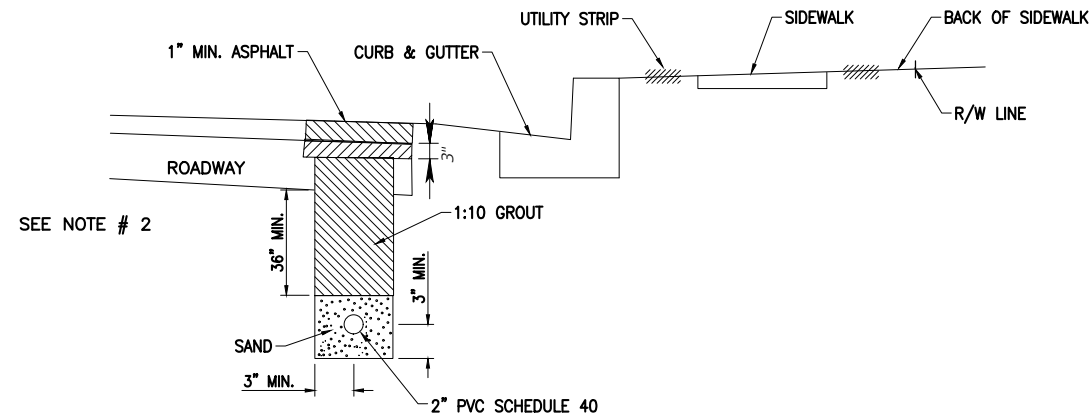
1 OPTION
CONDUIT BURIED WHEN CROSSING ROAD



NOTE:

- TRENCH NOT TO BE OPENED MORE THAN 250' AT A TIME.
- * MAY BE ADJUSTED IN FIELD DUE TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

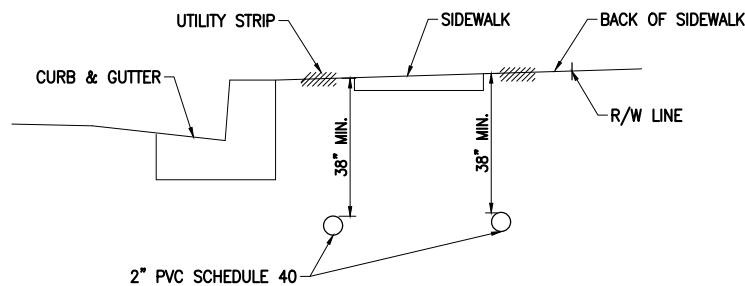
2 OPTION
CONDUIT BURIAL IN ROADWAY



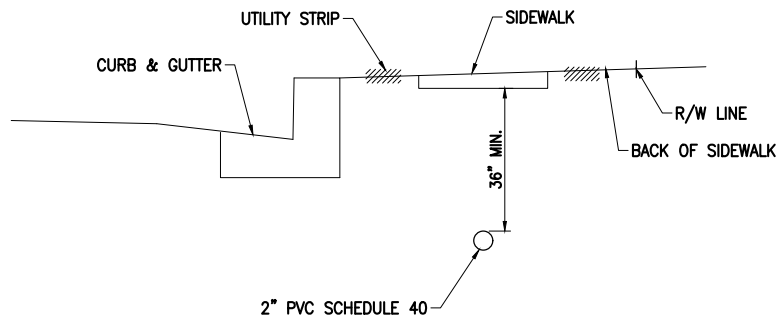
NOTES:

- TRENCH NOT TO BE OPENED MORE THAN 250' AT A TIME.
 - THIS AREA SHALL BE BACKFILLED WITH TYPE S-1 ASPHALTIC CONCRETE TO WITHIN 1 INCH OF FINISHED GRADE.
- * MAY BE ADJUSTED IN FIELD DUE TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

3 OPTION
CONDUIT IN UTILITY AND BACK OF SIDEWALK



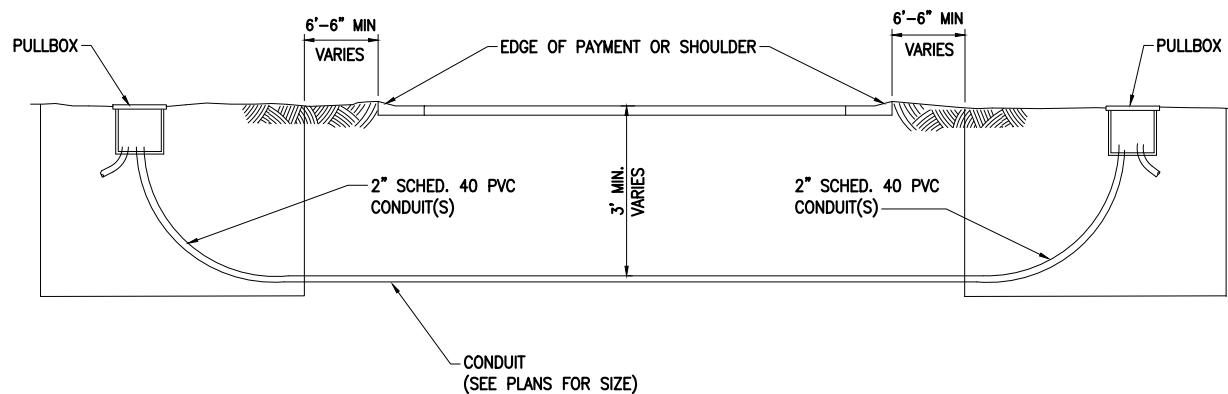
4 OPTION
CONDUIT UNDER SIDEWALK



NOTE:

- IN PLACING CONDUIT UNDER SIDEWALK REPLACEMENT OF ENTIRE SIDEWALK SECTION SHALL BE NECESSARY.

5 OPTION
CONDUIT DIRECTIONAL BORE



NOTE:

- DIRECTIONAL BORING OPERATIONS SHALL BE DONE IN ACCORDANCE WITH THE F.D.O.T. UTILITY ACCOMMODATION MANUAL.

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



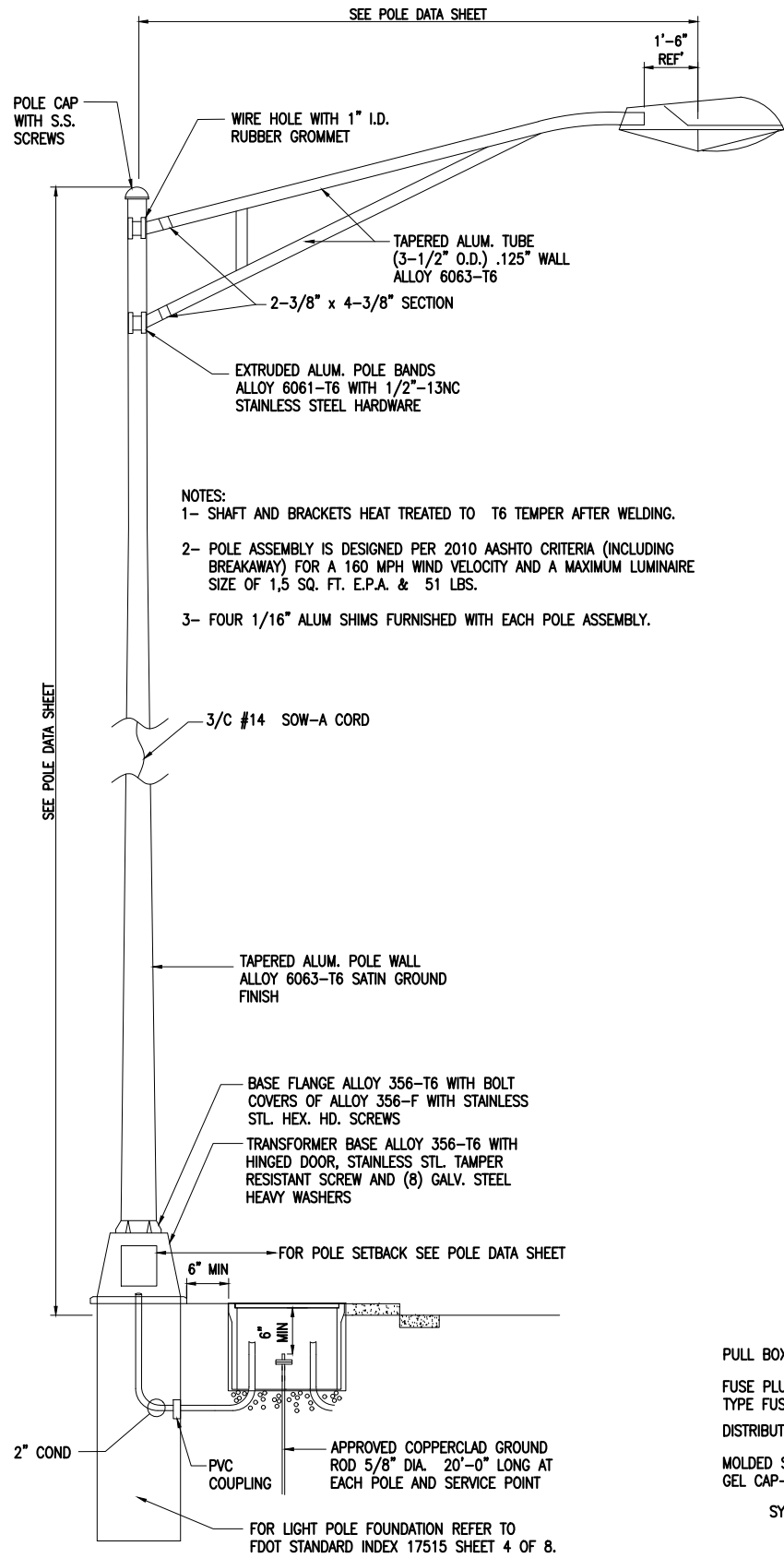
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P.E. License No. 49523

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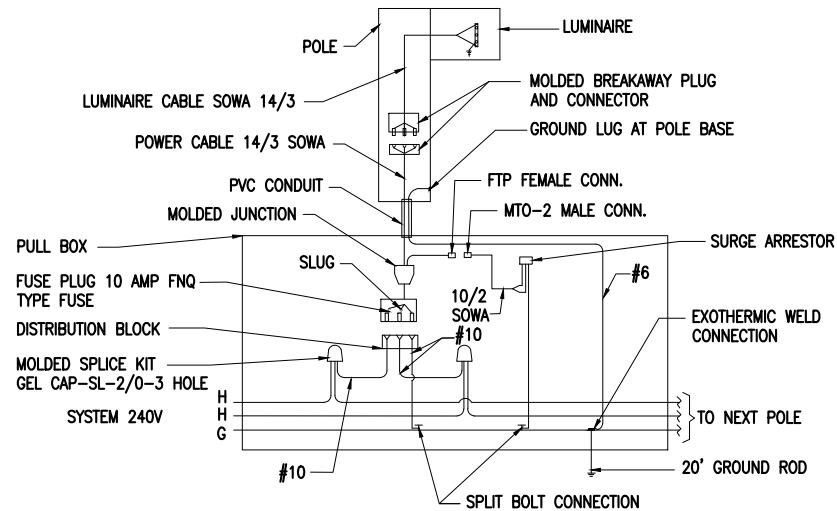
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CONDUIT BURIAL
DETAILS

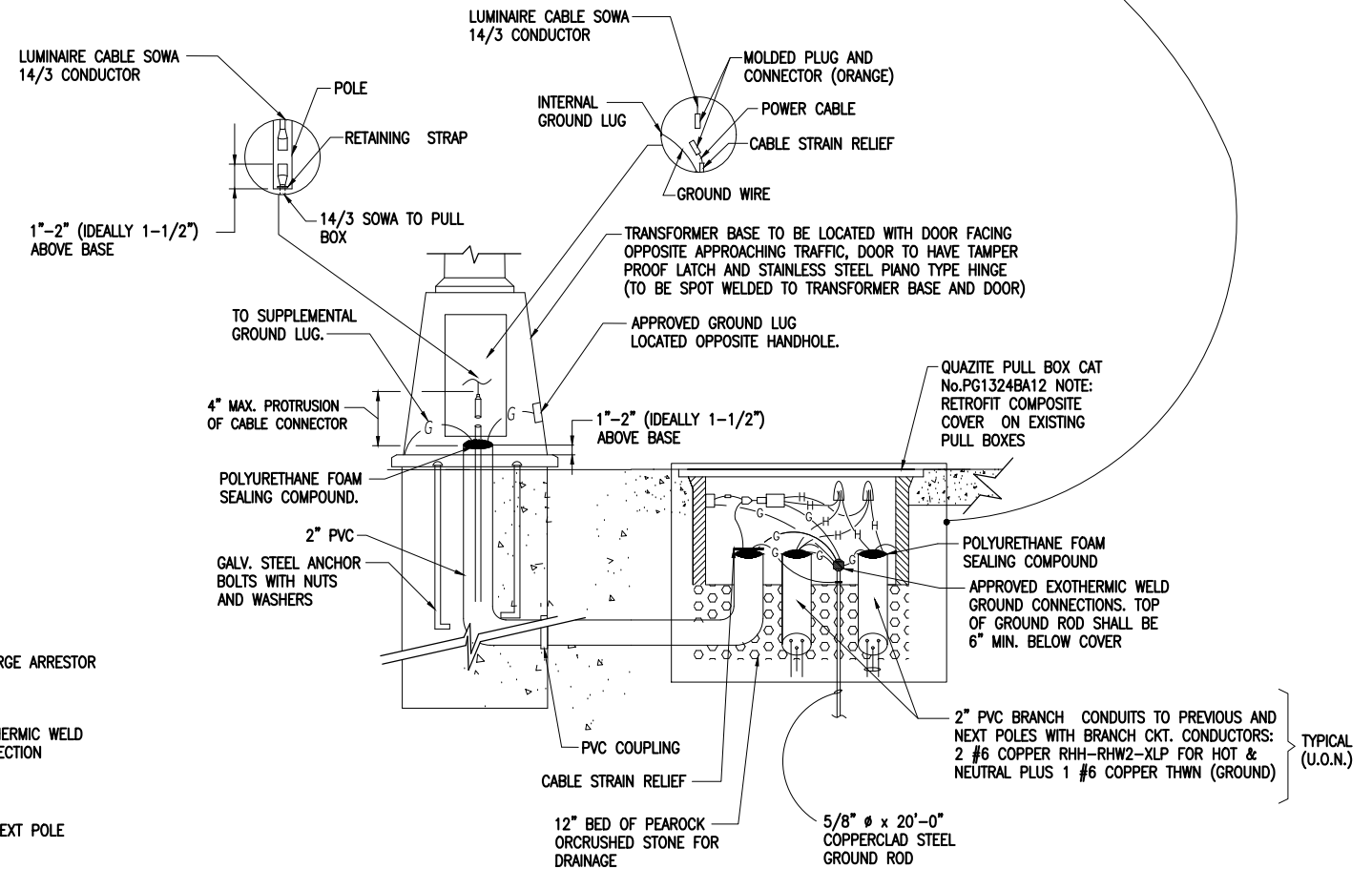
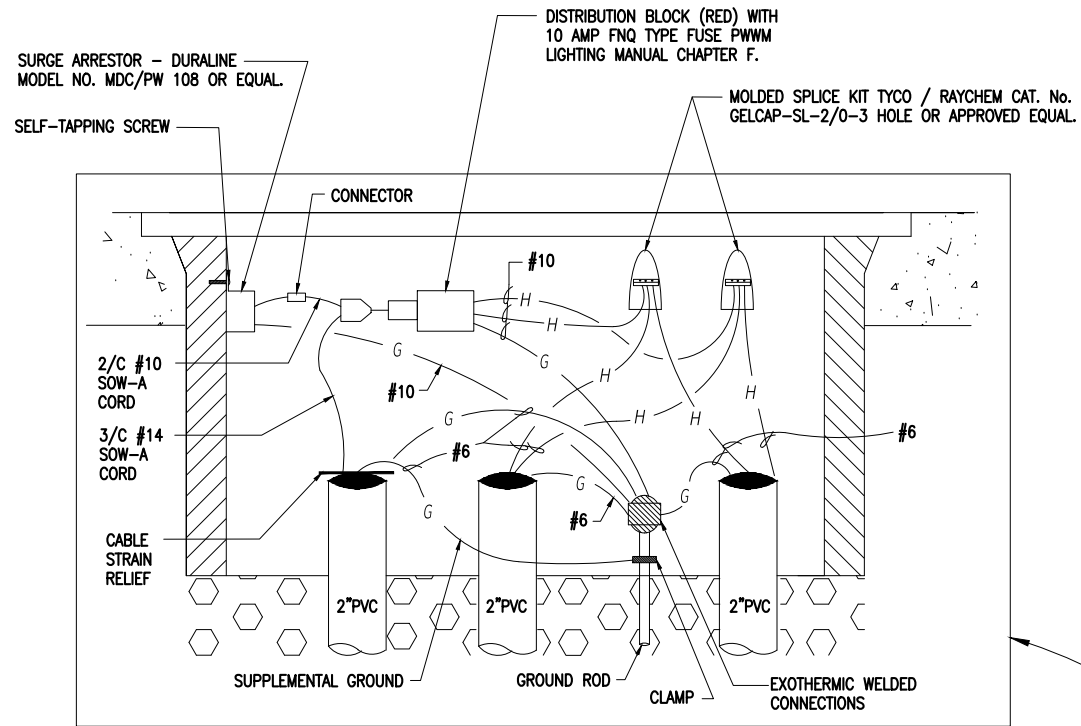
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TYPICAL METAL POLE INSTALLATION DETAIL
N.T.S.



WIRING DIAGRAM (POLE CABLE DISTRIBUTION)
N.T.S.



POLE WIRING DETAIL WITH PULL BOX
N.T.S.

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**CONVENTIONAL POLE
DETAIL**



* #4 TIE BARS @ 12" CENTERS (MAX.) OR D10 (OR W10) SPIRAL
@ 6" PITCH, 3 FLAT TURNS TOP AND 1 FLAT TURN BOTTOM.



FOUNDATION TABLE W/TOP MOUNT		
WIND SPEED (MPH)	DESIGN MOUNTING HEIGHT (FT)	TOTAL DEPTH (FT) **
160	40 & 45	7
160	50	8

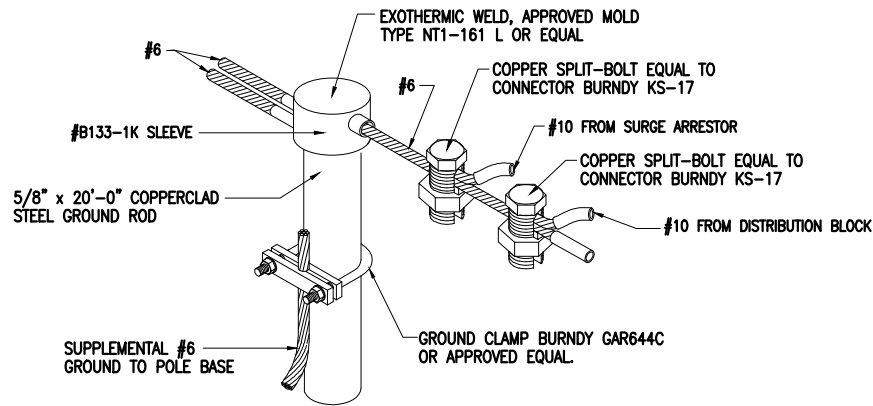
** DEPTHS SHOWN IN TABLE ARE FOR GRADES FLATTER THAN 1:4,
FOR GRADES UP TO 1:2 ADD 2'-6" TO FOUNDATION DEPTHS SHOWN IN TABLE.

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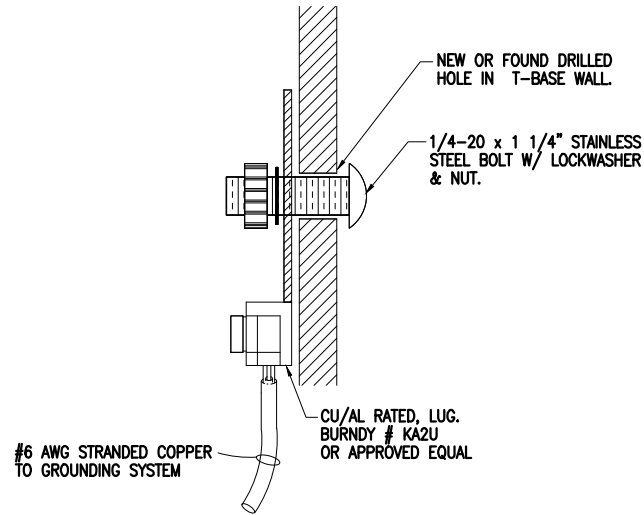
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FOUNDATION DETAIL



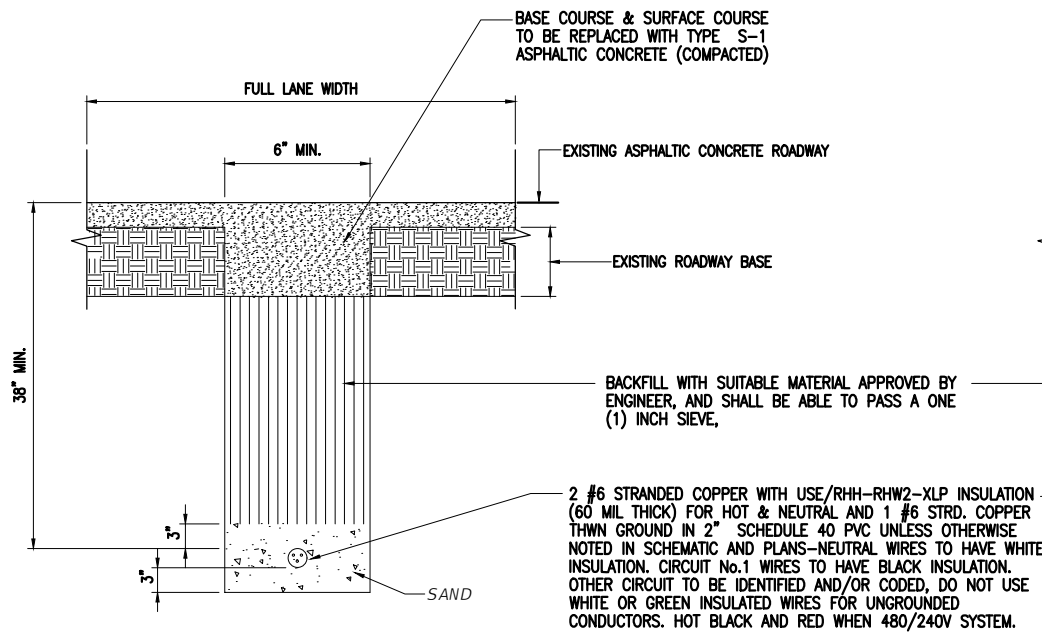
CABLE TO GROUND ROD DETAIL
(COPPER WIRE FOR GROUNDING)
N.T.S.



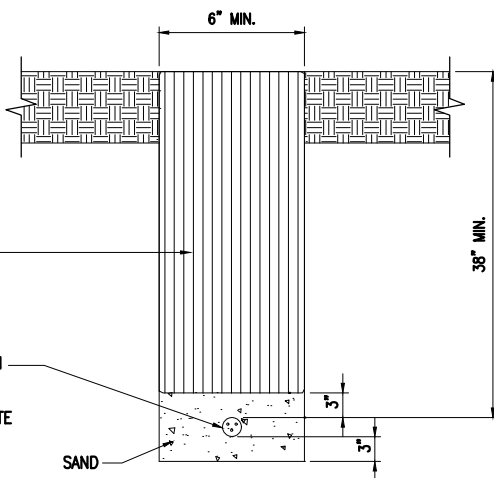
GROUND LUG DETAIL
(COPPER WIRE FOR GROUNDING)
N.T.S.

PULL BOX SPECIFICATION.

1. ALL STREET LIGHT PULLBOXES SHALL HAVE AN OPEN-BOTTOM, QUARTZITE POLYMER CONCRETE DESIGN OR PRECAST CONCRETE DESIGN CONSTRUCTED OF CLASS I CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT TWENTY- EIGHT (28) DAYS. POLYMER CONCRETE PULLBOX SHALL BE QUARTZITE PRODUCT NO. PG1324BA12 OR APPROVED EQUIVALENT. CONCRETE PULLBOX SHALL BE BROOKS 38 SERIES OR APPROVED EQUIVALENT. IN EITHER CASE, BOTH PULLBOXES SHALL BE CONSTRUCTED PER ABOVE SPECIFIED MANUFACTURERS SIZE, MATERIALS AND PERFORMANCE SPECIFICATIONS. THEREFORE, BELOW SPECIFIED PULLBOX COVER SHALL BE FULLY INTER- CHANGEABLE WITH EITHER PULLBOX. ALL PULLBOX COVERS FURNISHED AND INSTALLED SHALL BE POLYMER CONCRETE QUARTZITE PRODUCT NO. PG1324HA00 OR APPROVED EQUIVALENT. NO OTHER DESIGN, SIZE, MODIFICATION OR MATERIALS SHALL BE ACCEPTABLE. PULLBOX COVERS SHALL BE MARKED "STREET LIGHTING" OR "ELECTRIC/ MIAMI-DADE HD" .
2. IN SITUATIONS WHERE PULLBOX IS LOCATED OUTSIDE OF SIDEWALK, i.e. SWALE AREA. THE PULLBOX IS TO HAVE A 6'x5' MIN CONCRETE APRON (6" THICK) PLACED AROUND IT. COST OF CONCRETE APRON IS TO BE INCLUDED IN THE PULLBOX INSTALLATION COST.

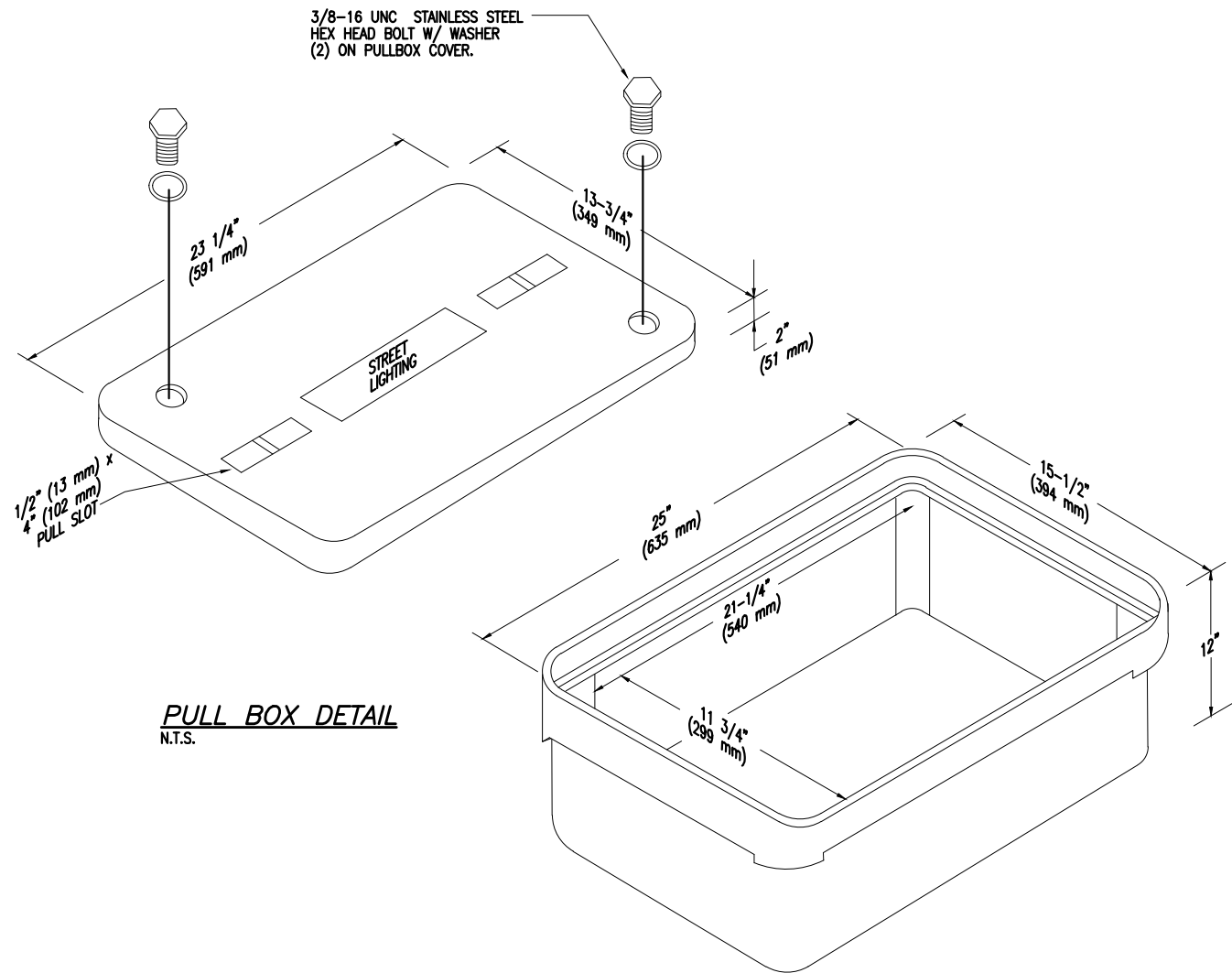


TRENCH DETAIL (ROAD)
N.T.S.



TRENCH DETAIL (SWALE)
N.T.S.

* IF IN THE OPINION OF THE ENGINEER, APPRECIABLE SETTLEMENT OCCURS DURING THE ONE YEAR GUARANTEE PERIOD, THE CONTRACTOR WILL BE REQUIRED TO RESTORE THE AREA OF CUT TO ADJACENT ROADWAY ELEVATION. SEE "TRAFFIC CONTROL EQUIPMENT SPECIFICATIONS AND STANDARDS FOR THE MTCSDMC".



PULL BOX DETAIL
N.T.S.

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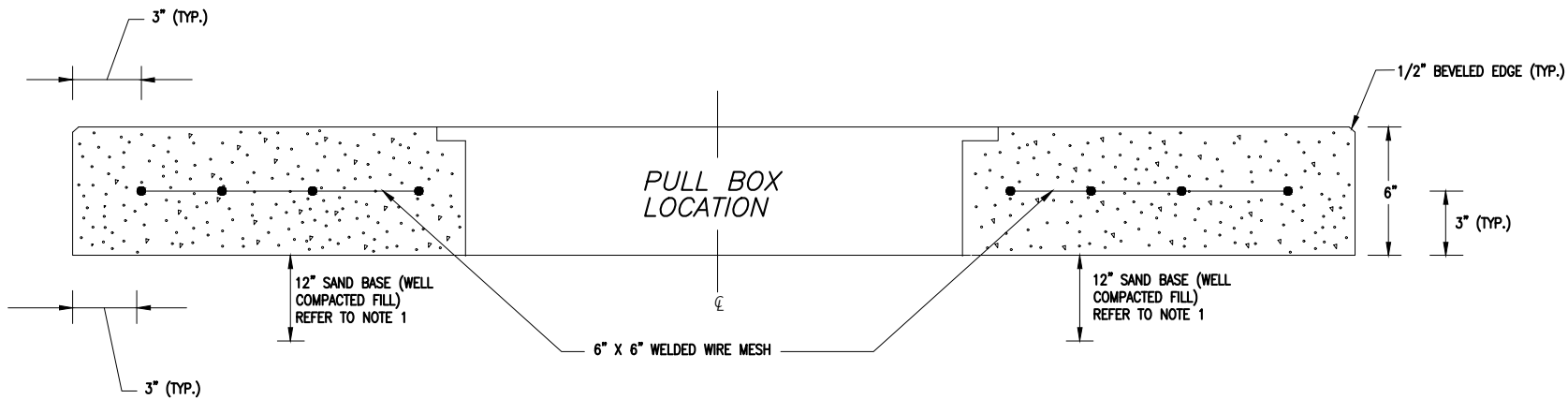
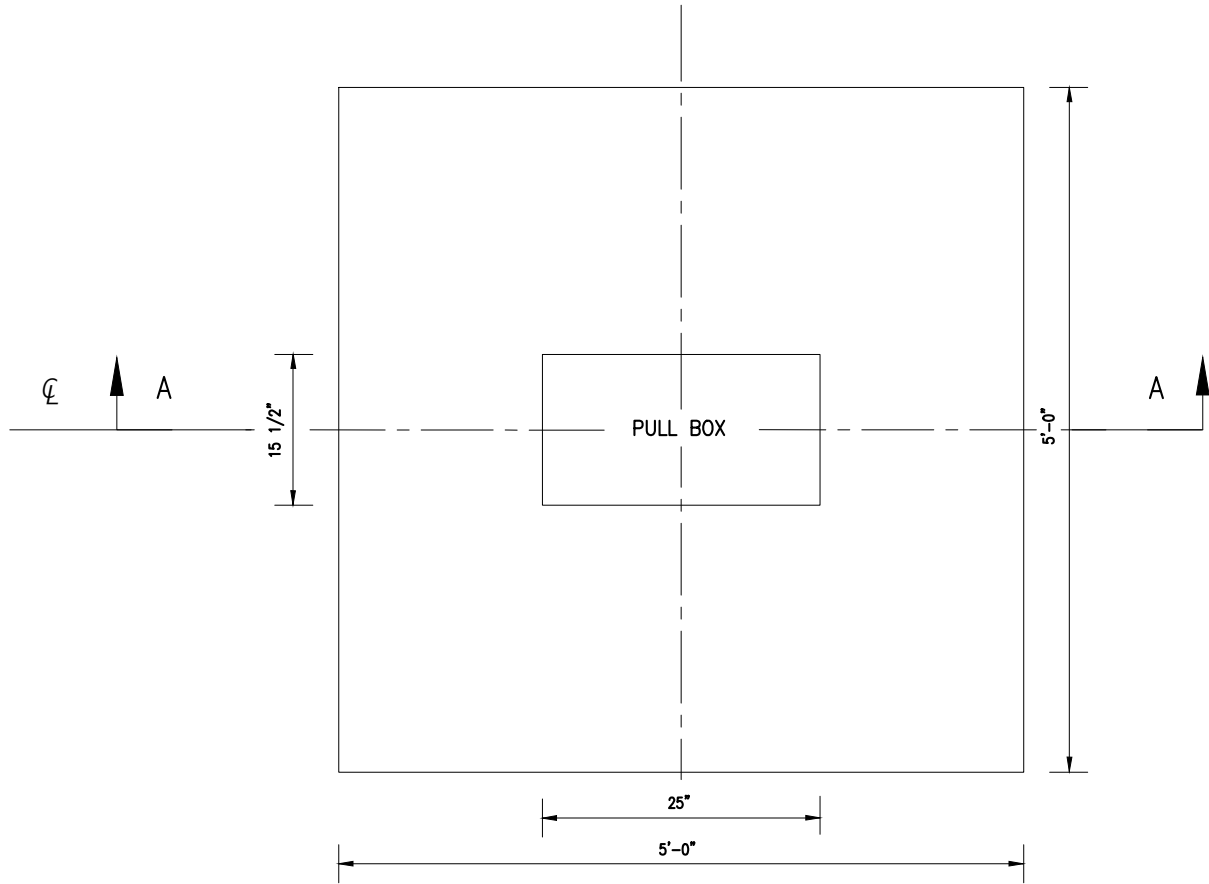
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MISCELLANEOUS
DETAILS 1

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NOTES:

- 1- USE COMPACTED SELECT MATERIAL IN ACCORDANCE WITH FDOT STANDARD INDEX 505.
- 2- CONCRETE SHALL BE CLASS NS WITH A MINIMUM STRENGTH AT 28 DAYS OF F'C=2.5 KSI.
- 3- OUTSIDE EDGE OF SLAB SHALL BE CAST AGAINST FORM-WORK.
- 4- THE PULL BOX SHOWN IS 13" x 24" (INTERIOR DIMENSIONS) & 15 1/2" X 25" (EXTERIOR DIMENSIONS); OTHERS APPROVED UNDER SECTION 635 OF THE STANDARD SPECIFICATIONS MAY USED.
- 5- SLABS TO BE PLACED AROUND ALL POLES AND PULL BOXES IN RURAL LOCATIONS. IN URBAN AREAS OR WHERE SPACE IS LIMITED SLAB DIMENSIONS MAY BE ADJUSTED AS SHOWN IN THE PLANS.
- 6- CONCRETE FOR SLABS AROUND PULL BOXES BE INCLUDED IN THE PRICE OF PULL BOX.
- 7- CONCRETE FINISH TO BE LIGHT BROOM FINISH AND SLOPING AWAY FROM CENTERS.



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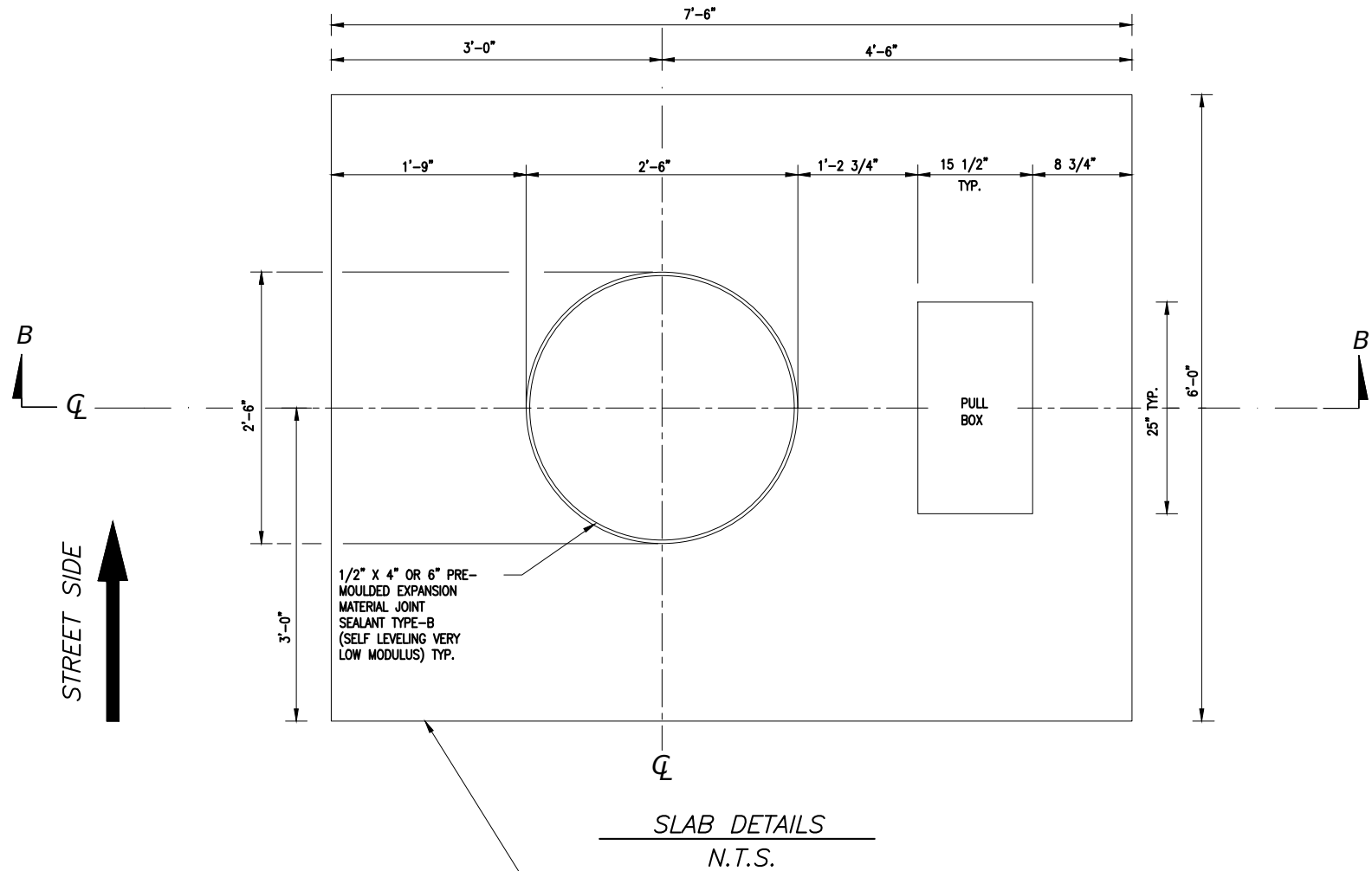
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SLAB DETAILS FOR
INTERMEDIATE
PULL BOX LOCATIONS 1

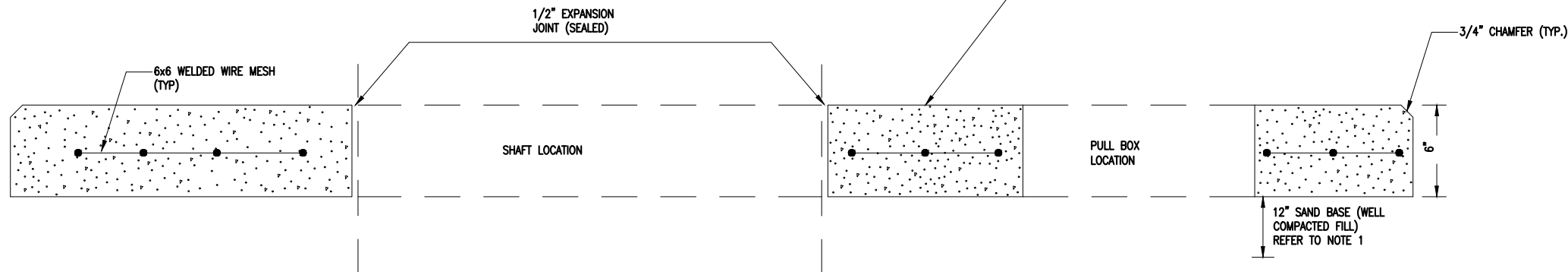
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NOTES:

- 1- THIS DETAIL IS APPLICABLE FOR INSTALLATION IN SOD AREA AND NOT FOR SIDEWALK.
- 2- USE COMPACTED SELECT MATERIAL IN ACCORDANCE WITH FDOT STANDARD INDEX 505.
- 3- CONCRETE SHALL BE CLASS NS WITH A MINIMUM STRENGTH AT 28 DAYS OF F'C=2.5 KSI.
- 4- OUTSIDE EDGE OF SLAB SHALL BE CAST AGAINST FORMWORK.
- 5- THE PULL BOX SHOWN IS 13" X 24" (INTERIOR DIMENSIONS) & 15 1/2" X 25" (EXTERIOR DIMENSIONS); OTHERS APPROVED UNDER SECTION 635 OF THE STANDARD SPECIFICATIONS MAY BE USED.
- 6- SLABS TO BE PLACED AROUND ALL POLES AND PULL BOXES. IN URBAN AREAS OR WHERE SPACE IS LIMITED SLAB DIMENSIONS MAY BE ADJUSTED AS SHOWN IN THE PLANS.
- 7- CONCRETE FOR SLABS AROUND POLES AND PULL BOXES SHALL BE INCLUDED IN THE PRICE OF POLE OR PULL BOX.
- 8- THE EXPANSION JOINT SHALL CONSIST OF 1/2" OF CLOSED-CELL POLYETHYLENE FOAM EXPANSION MATERIAL. THE TOP 1/2" OF EXPANSION MATERIAL SHALL BE REMOVED AFTER POURING THE SLAB AND SEALED WITH AN APL APPROVED TYPE A SEALANT MEETING THE REQUIREMENTS OF SECTION 932.
- 9- THIS DETAIL IS APPLICABLE FOR: POLE NO. L-1, L-2, L-4, L-5, L-7 & L-12



PER FDOT 17502 (SHEET 7 OF 7)
AND ON THE MARKING ON THE PREVIOUS SHEET 2 OF 3



SECTION B-B

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SLAB DETAILS FOR
INTERMEDIATE
PULL BOX LOCATIONS 2

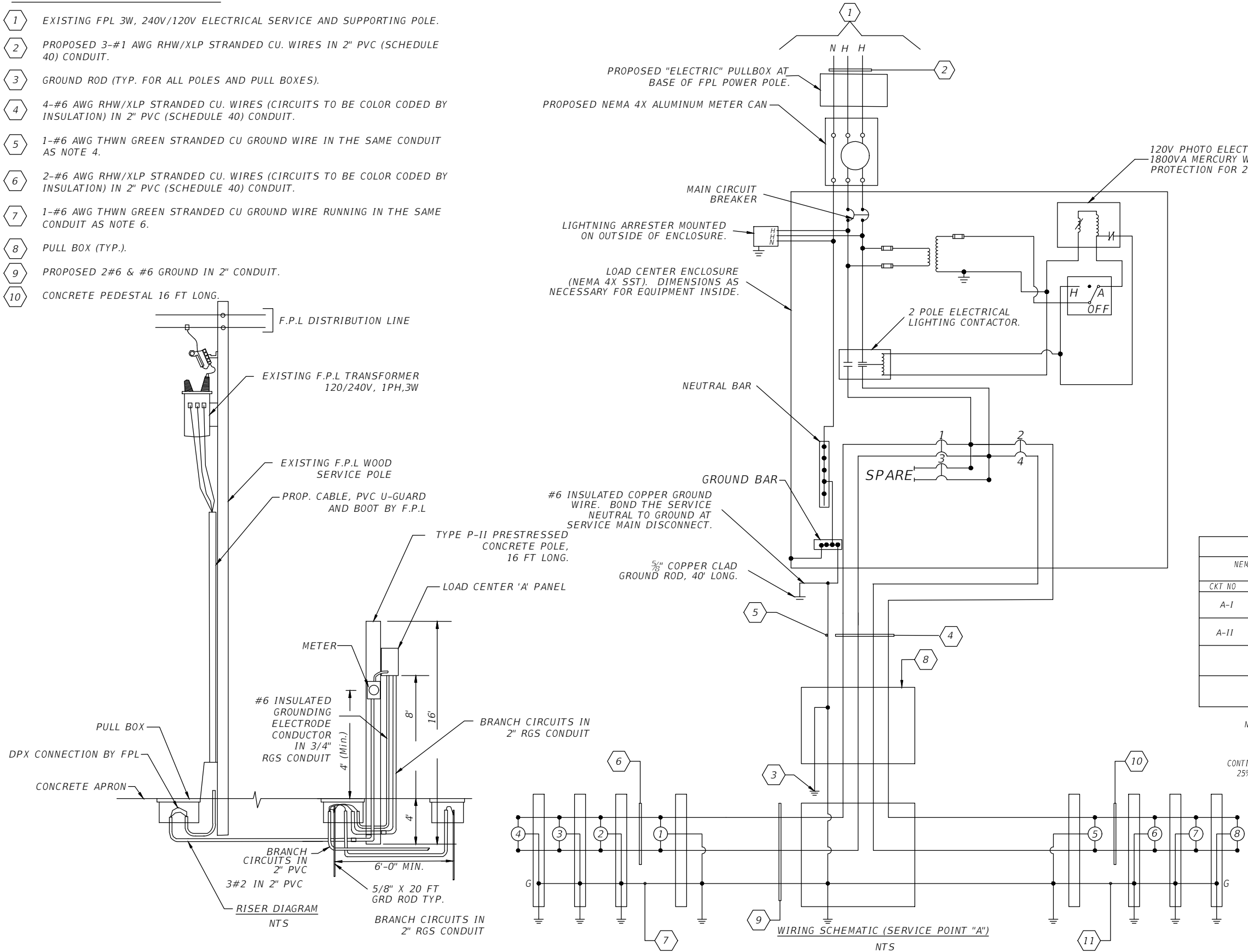
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WIRING SCHEMATIC (SERVICE POINT "A")

NTS

CODED NOTES FOR WIRING SCHEMATICS

- EXISTING FPL 3W, 240V/120V ELECTRICAL SERVICE AND SUPPORTING POLE.
- PROPOSED 3-#1 AWG RHW/XLP STRANDED CU. WIRES IN 2" PVC (SCHEDULE 40) CONDUIT.
- GROUND ROD (TYP. FOR ALL POLES AND PULL BOXES).
- 4-#6 AWG RHW/XLP STRANDED CU. WIRES (CIRCUITS TO BE COLOR CODED BY INSULATION) IN 2" PVC (SCHEDULE 40) CONDUIT.
- 1-#6 AWG THWN GREEN STRANDED CU GROUND WIRE IN THE SAME CONDUIT AS NOTE 4.
- 2-#6 AWG RHW/XLP STRANDED CU. WIRES (CIRCUITS TO BE COLOR CODED BY INSULATION) IN 2" PVC (SCHEDULE 40) CONDUIT.
- 1-#6 AWG THWN GREEN STRANDED CU GROUND WIRE RUNNING IN THE SAME CONDUIT AS NOTE 6.
- PULL BOX (TYP.).
- PROPOSED 2#6 & #6 GROUND IN 2" CONDUIT.
- CONCRETE PEDESTAL 16 FT LONG.



PANEL BOARD SCHEDULE					
NEMA-1 10/3W,120/240 V, (2P - 100 A MCB) 25,000 RMS SYMMETRICAL SURF-MTD					
CKT NO	SERVING	KVA	AMPS	C. BKR	WIRE/CONDUCT
A-I	LIGHTING	1.32	5.5	2P/20A	(2)-6 AWG (1)-6 AWG GND
A-II	LIGHTING	1.32	5.5	2P/20A	(2)-6 AWG (1)-6 AWG GND

NUMBERS OF BRANCH CKT. BREAKERS AS REQUIRED

LOAD CENTER LOAD CALCULATION:

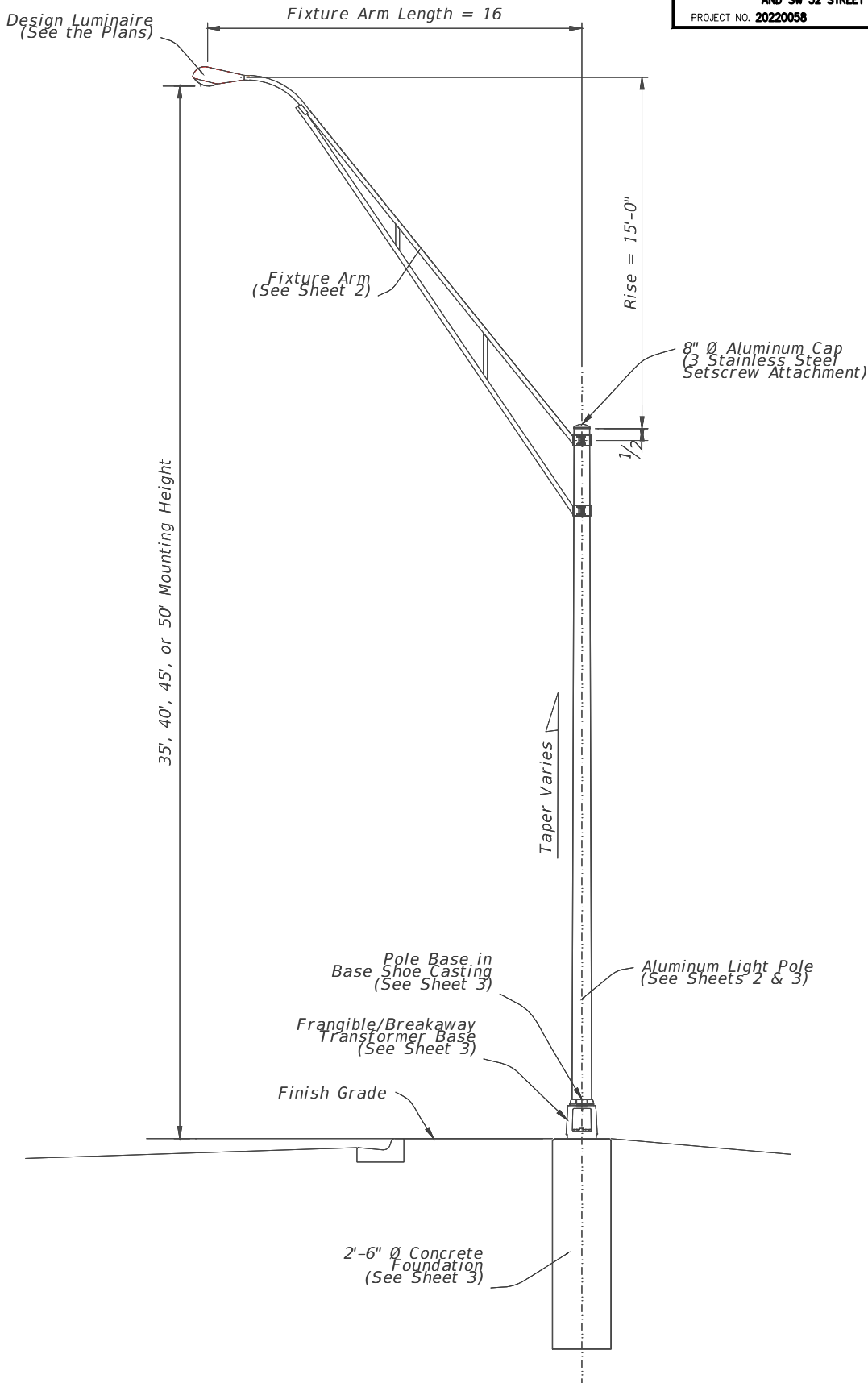
CONTINUOUS LOADS= 2112 VA
25% CONT. LOAD= 528 VA
TOTAL= 2640 VA

$Amp = \frac{VA}{V} = 8.80$

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GENERAL NOTES:

1. LUMINAIRE LOAD: Poles are designed to support the following:
A. Luminaire Effective Projected Area (EPA): 1.55 SF
B. Luminaire Weight: 75 lb.
2. SHOP DRAWINGS: This Index is considered fully detailed; only submit shop drawings for minor modifications not included in the Plans.
3. MATERIALS:
A. Pole, Arm Tubes, Strut Tubes, Bars, Plates, Stiffeners: ASTM B221, Alloy 6063-T6 or Alloy 6061-T6
B. Pole Connection Extrusion Clamp: ASTM B221, Alloy 6061-T6
C. Caps and Covers: ASTM B-26, Alloy 319-F
D. Aluminum Weld Material: ER 4043
E. Transformer and Frangible Base Materials: ASTM B26 or ASTM B108, Alloy 356-T6
F. Base Bolts, Nuts and Washers:
a. Shoe Base Bolts: ASTM F3125, Grade A325, Type 1
b. Nuts: ASTM A563 Grade DH Heavy-Hex
c. Washer: ASTM F436 Type 1
G. Anchor Bolts, Nuts, and Washers:
a. Anchor Bolts: ASTM F1554 Grade 55
b. Nuts: ASTM A563 Grade A Heavy-Hex
H. Clamp Hardware: See Sheet 2.
I. Stainless Steel Cap Fasteners: ASTM F593 Alloy Group 2, Condition A, CW1 or SH1
J. Nut Covers: ASTM B26 (319-F)
K. Concrete: Class II
L. Reinforcing Steel: Specification 415
4. FABRICATION:
A. Weld Arm and Pole Alloy in the T4 temper using 4043 filler. Age the Arm and Pole artificially to the T6 temper after welding.
B. Transverse welds are only allowed at the base.
C. Light Pole Properties: Taper as required to provide a round top O.D. of 8" and a base O.D. of 10" for all pole heights. Portions of the pole near the base shoe and at the arm connections may be held constant to simplify fabrication. Maintain pole wall thickness of 0.313" Min.
D. Fixture Arm Tube Properties: See Sheet 2.
E. Provide 'J', 'S' or 'C' hook at top of pole for electrical wires.
F. Perform all welding in accordance with AWS D1.2.
G. Identification Tag: (Submit details for approval.)
a. 2" x 4" (Max.) aluminum identification tag.
b. Locate on the inside of the transformer base and visible from the door opening.
c. Secure to transformer base with 1/8" diameter stainless steel rivets or screws.
d. Include the following information on the ID Tag:
1. Financial Project ID
2. Pole Height
3. Manufacturer's Name
5. COATINGS/FINISH:
A. Pole and Arm Finish: 50 grit satin rubbed.
B. Galvanize Steel Bolts, Screws, Nuts and Washers: ASTM F2329
C. Hot Dip Galvanize miscellaneous steel items: ASTM A123
6. CONSTRUCTION:
A. Foundation: Specification 455, except payment for the foundation is included in the cost of the pole.
B. Frangible Base, Base Shoe, and Pole Connection Extrusion Clamp:
a. Certify that the Pole Connection Extrusion Clamp, Frangible Transformer Base, and Base Shoe Design are capable of providing the required capacity, assuming a design wind speed of 160 MPH.
b. Certify the Base conforms to the FHWA required AASHTO Frangibility Requirements, tested under NCHRP Report 350 Guidelines (e.g. Akron Foundry TB1-17).
c. Do not erect pole without Luminaire attached.



LIGHT POLE - ELEVATION

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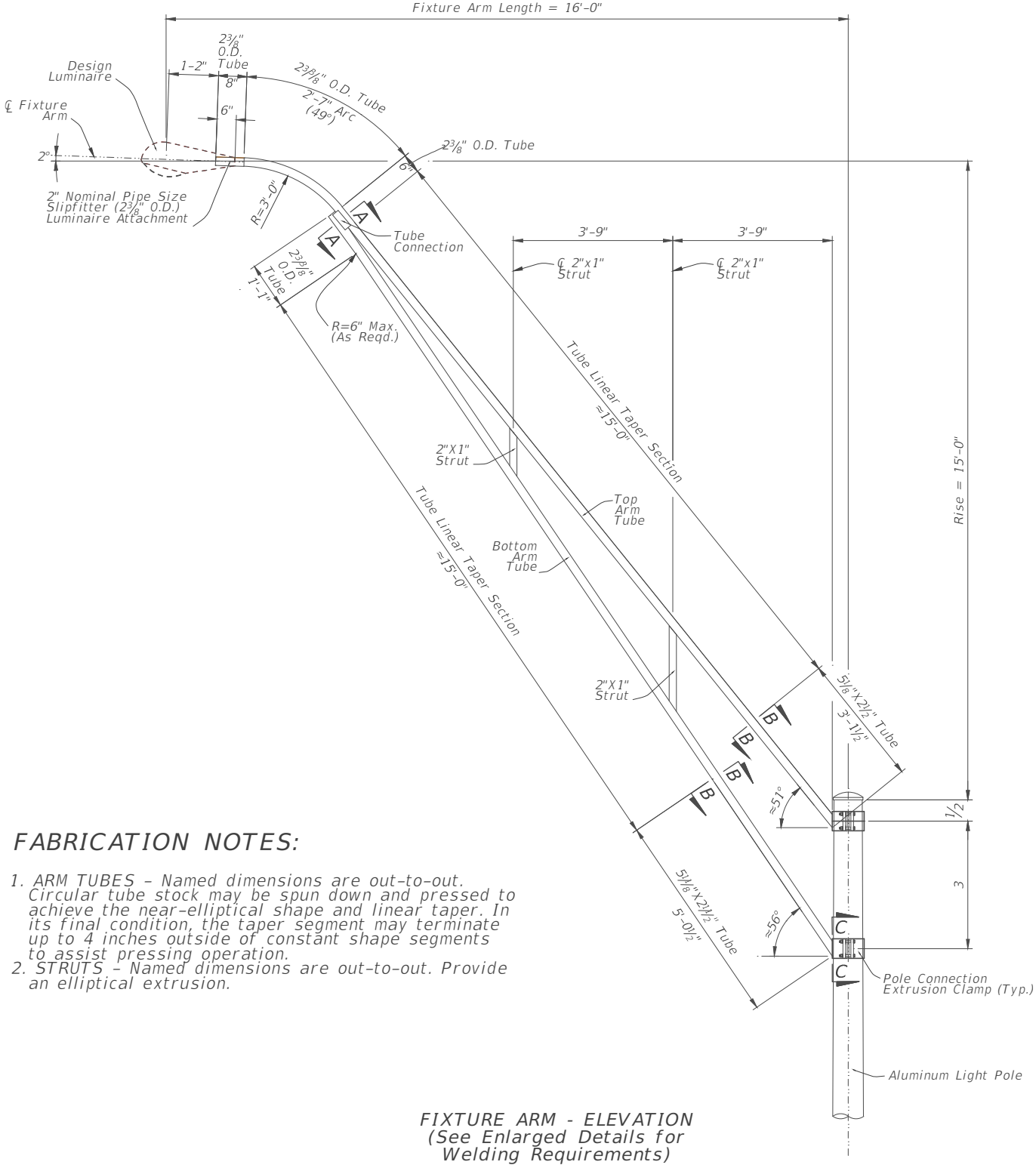
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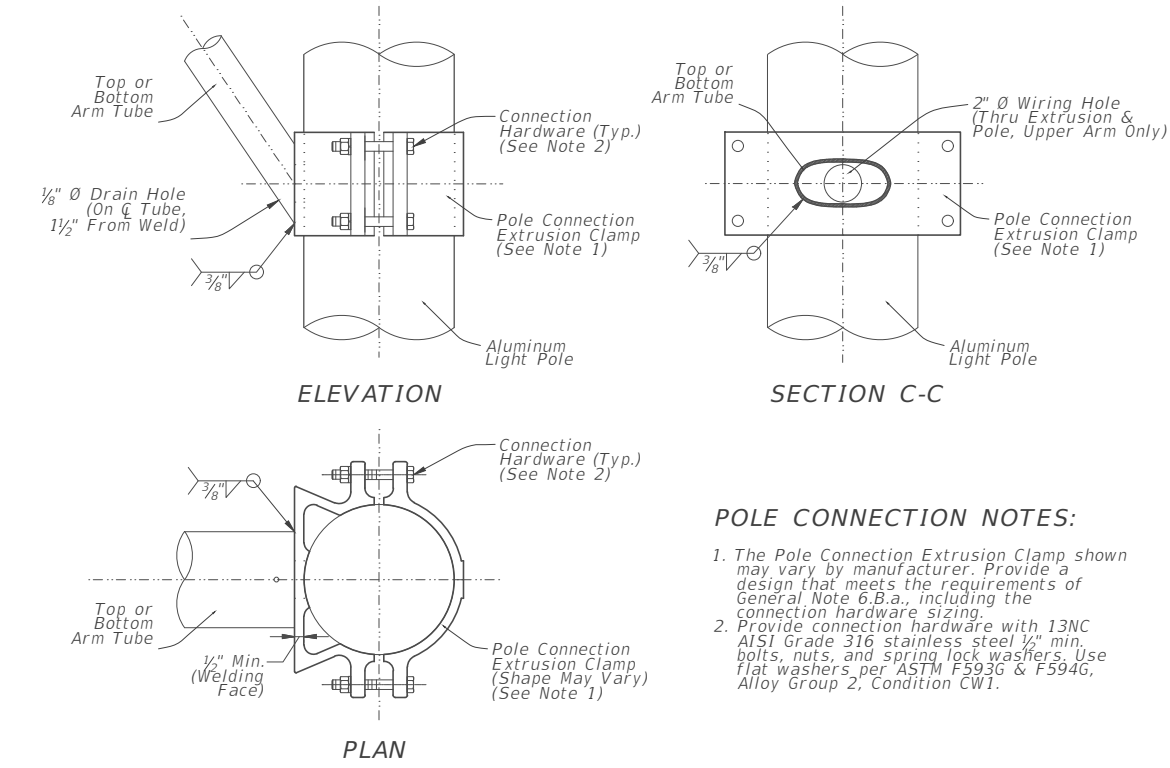
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UTILITY CONFLICT POLE

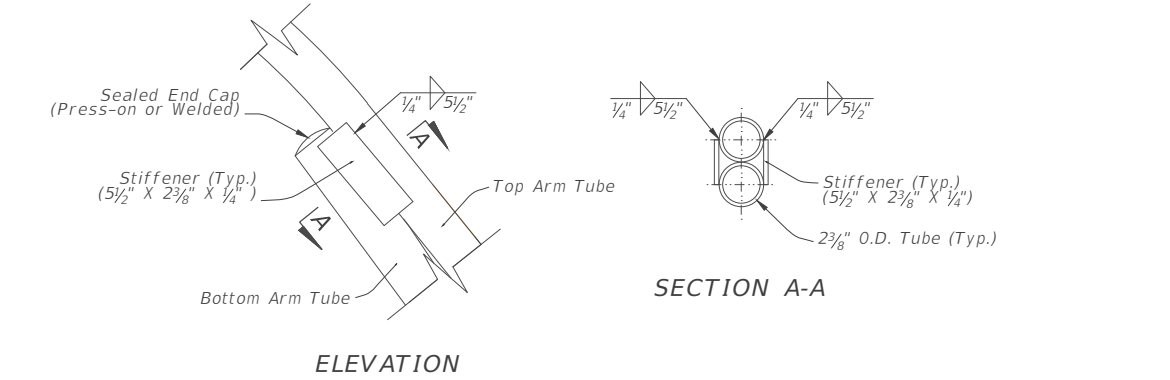


- FABRICATION NOTES:**
1. ARM TUBES - Named dimensions are out-to-out. Circular tube stock may be spun down and pressed to achieve the near-elliptical shape and linear taper. In its final condition, the taper segment may terminate up to 4 inches outside of constant shape segments to assist pressing operation.
 2. STRUTS - Named dimensions are out-to-out. Provide an elliptical extrusion.

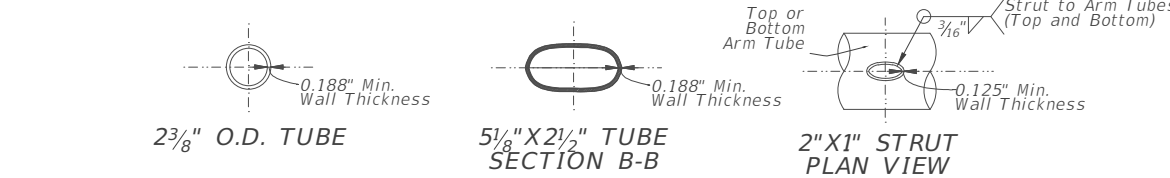
FIXTURE ARM - ELEVATION
(See Enlarged Details for Welding Requirements)



POLE CONNECTION DETAILS



TUBE CONNECTION DETAILS



TUBE SECTION DETAILS

FIXTURE ARM ASSEMBLY

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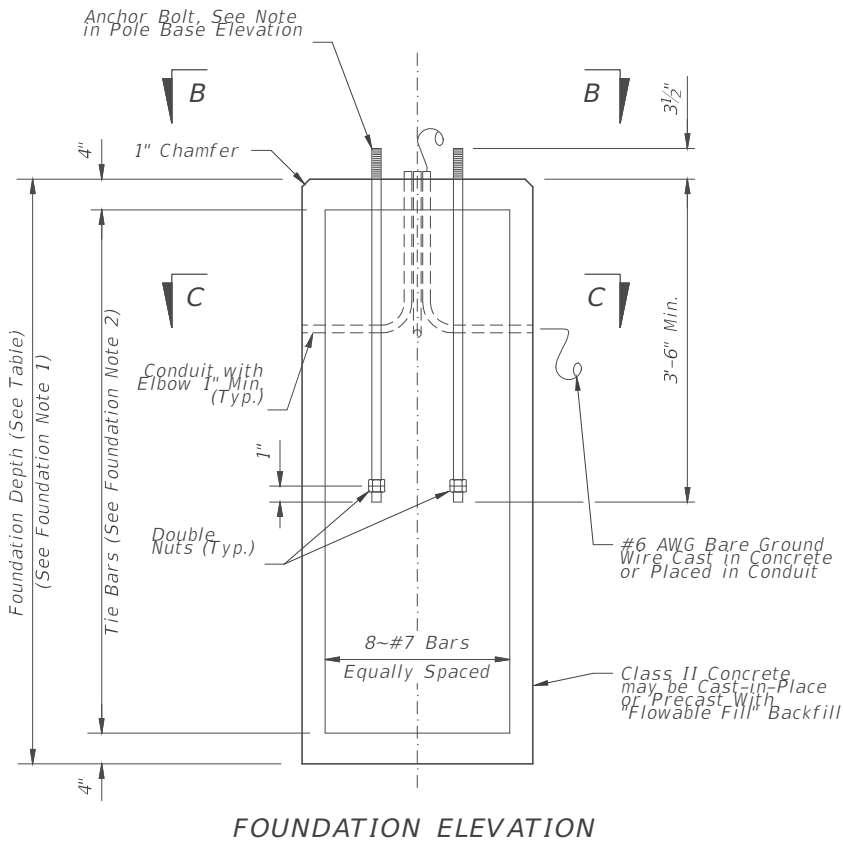
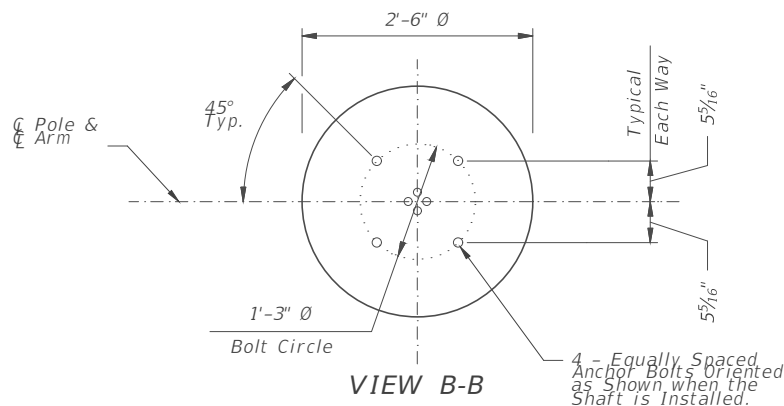
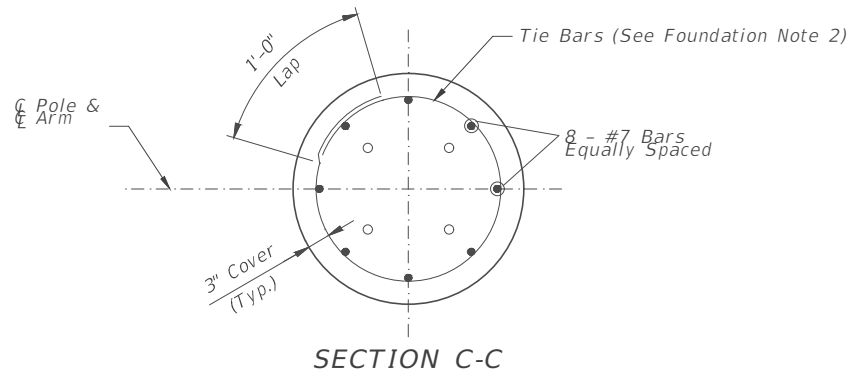


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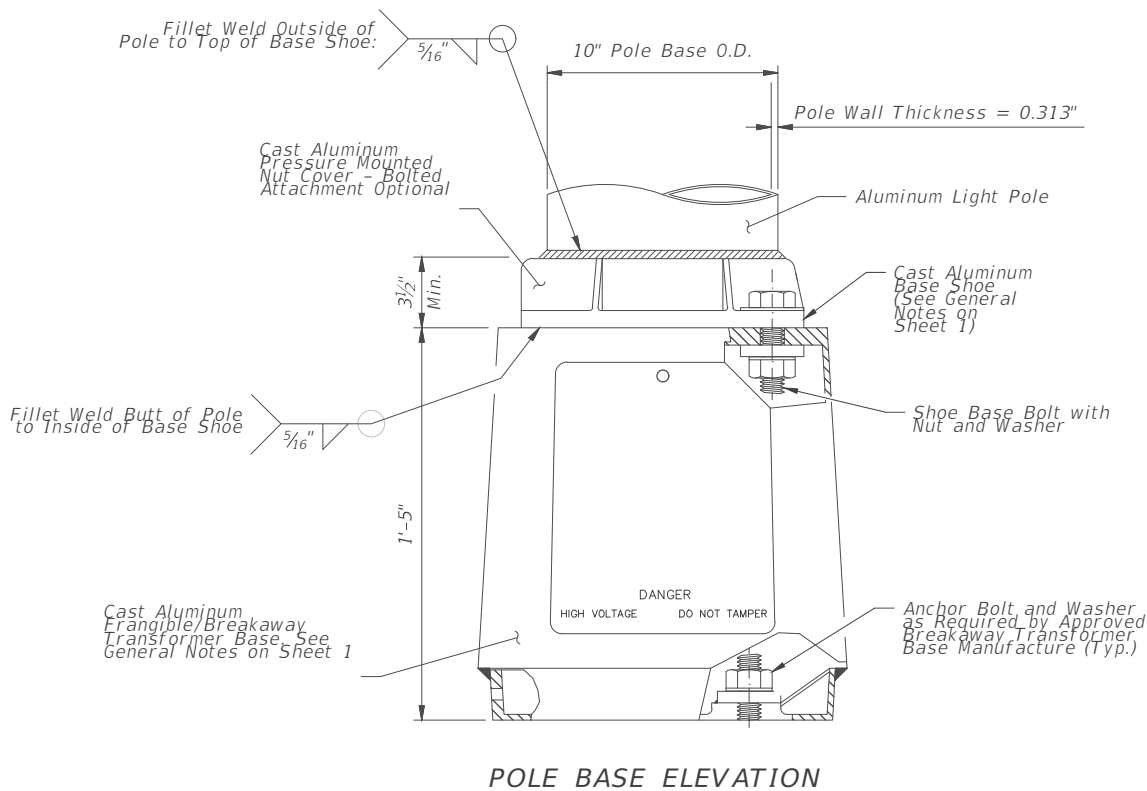
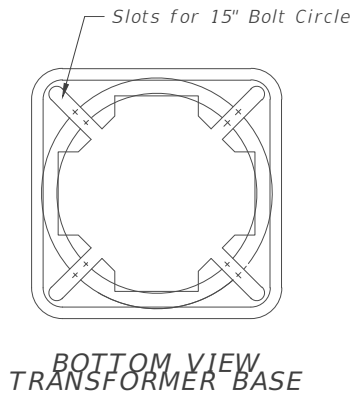
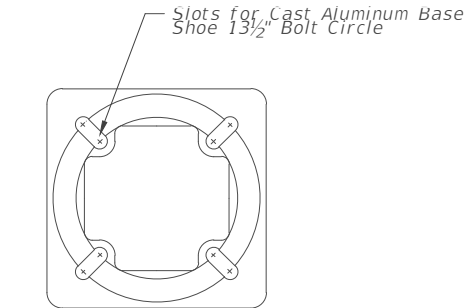
UTILITY CONFLICT POLE



FOUNDATION DEPTHS		
Luminaire Mounting Height	≤ 40 Ft.	45-50 Ft.
Depth	8'-0"	9'-0"

FOUNDATION NOTES:

1. Depths shown are for slopes equal to or flatter than 1:4. For slopes steeper than 1:4 and equal to or flatter than 1:2 add 2'-6" to foundation depths shown.
2. Foundation Tie Bars: #4 Tie Bars @ 12" centers (max.) or D10 (or W10) spiral @ 6" pitch, 3 Flat turns top and 1 Flat turn bottom.
3. For precast foundations, the circular cross section shown may be substituted with an octagon shape. The out-to-out distance between parallel edges of the octagon must be ≥ 2'-6". Use the same reinforcing diameter and centered placement with a minimum 3" cover.



FOUNDATION AND BASE DETAILS

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UTILITY CONCLIT POLE