



**GENERAL NOTES:**

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- IT IS THE RESPONSIBILITY OF EACH BIDDER TO REVIEW ALL CONTRACT DOCUMENTS ASSOCIATED WITH THIS PROJECT PRIOR TO THE SUBMISSION OF BIDS. SHOULD THE BIDDER FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE DRAWINGS, SPECIFICATIONS OR APPLICABLE CODES, IT IS THE BIDDER'S RESPONSIBILITY TO NOTIFY THE CITY OF MERIDEN ENGINEER OR THEIR REPRESENTATIVE OF RECORD IN WRITING PRIOR TO THE SUBMISSION OF BIDS. FAILURE BY THE BIDDER TO PROVIDE NOTIFICATION SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS, SPECIFICATIONS AND IN FULL CONFORMANCE WITH LOCAL AND STATE REGULATIONS AND CODES.
- ALL TREES, UNLESS OTHERWISE NOTED, SHALL BE PROTECTED AND LEFT UNDISTURBED. THE CONTRACTOR SHALL PROTECT ALL TREES AND ANY TREES DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR, AT NO ADDITIONAL COST.
- ANY EXCAVATION WITHIN THE DRIP LINE OF TREES WITHIN THE CITY'S RIGHT OF WAY MUST RECEIVE CITY TREE WARDEN APPROVAL PRIOR TO BEGINNING WORK. CONTACT THE CITY PARKS DEPARTMENT - 460 LIBERTY STREET, TELEPHONE NUMBER (203) 630-4259. NO TREES SHALL BE REMOVED WITHIN CITY ROW WITHOUT PERMISSION OF THE CITY TREE WARDEN. TREE APPLICATIONS MUST BE FILED WITH THE CITY PARKS DEPARTMENT. 21 DAYS' ADVANCE NOTICE REQUIRED
- ANY AREAS DISTURBED BY THE CONTRACTOR WHICH ARE OUTSIDE OF THE LIMITS OF CONSTRUCTION SHALL BE RESTORED TO ORIGINAL OR IMPROVED CONDITION AT NO ADDITIONAL COST.
- THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL CONSTRUCTION PERMITS, BONDS, LICENSES AND INSURANCE AS REQUIRED IN THE CONTRACT DOCUMENTS AND AS REQUIRED BY THE CITY OF MERIDEN AND THE STATE OF CONNECTICUT INCLUDING ALL WORK AND COSTS INCIDENTAL THERETO. PERMITS MAY REQUIRE THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL PLANS, THE COST OF WHICH SHALL BE INCLUDED IN THE BID PRICE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL ELEVATIONS, PROPERTY LINES, LOCATIONS OF UTILITIES AND SITE CONDITIONS IN THE FIELD. IF AN UNFORESEEN INTERFERENCE EXISTS BETWEEN AN EXISTING AND A PROPOSED STRUCTURE, THE CONTRACTOR SHALL NOTIFY THE CITY OF MERIDEN ENGINEER OR THEIR REPRESENTATIVE PRIOR TO INSTALLATION SO THAT THE APPROPRIATE RESOLUTION CAN BE IDENTIFIED.
- ANY DAMAGE TO EXISTING INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO, CURBS, CATCH BASIN, MAN HOLES, SIDEWALK, DRAINAGE STRUCTURES, GATES, OR VALVES. NOT IDENTIFIED FOR WORK, SHALL BE REPAIRED OR REPLACED AT NO COST TO THE CITY OF MERIDEN.
- THE CONTRACTOR SHALL EMPLOY ALL NECESSARY BARRICADES, SIGNS, FENCES, FLASHING LIGHTS, TRAFFICPERSON, POLICE DETAILS, ETC. FOR THE MAINTENANCE OF SAFE ORDERLY TRAFFIC FLOW THROUGH THE PROJECT AREA. THE CONTRACTOR MAY BE REQUIRED TO ADJUST AND MODIFY TEMPORARY TRAFFIC CONTROL PATTERNS AND MEASURES AT THE DIRECTION OF THE CITY OF MERIDEN ENGINEER OR THEIR REPRESENTATIVE.
- PRIOR TO THE INSTALLATION OF FINAL PAVEMENT MARKINGS, THE CONTRACTOR SHALL MARK OUT ALL PROPOSED PAVEMENT MARKINGS, AND REPORT ANY CONFLICTS WITH THESE PLANS TO THE CITY OF MERIDEN AND THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL SUFFICIENTLY COVER ALL DISTURBED AREAS AT THE END OF EACH WORK DAY TO AVOID ANY RISK OF INJURY TO PEDESTRIAN OR VEHICULAR TRAFFIC. THE CONTRACTOR SHALL INSTALL TEMPORARY SUPPORT SYSTEMS OVER TRENCH EXCAVATIONS THAT ARE TAMPER RESISTANT AND SAFE FOR VEHICULAR AND PEDESTRIAN TRAFFIC. THE CONTRACTOR SHALL INSTALL BARRICADES AND FENCES TO PROTECT AGAINST PEDESTRIAN ACCESS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE TEMPORARY SAFETY MEASURE FROM THE CITY OF MERIDEN OR THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND RESTORATION OF ALL PROPERTY LINE MONUMENTATION. THE RESETTNG OF PROPERTY LINE MONUMENTATION SHALL BE PERFORMED BY A LAND SURVEYOR LICENSED IN THE STATE OF CONNECTICUT. IF DISTURBANCE IS NECESSARY, CITY OF MERIDEN ENGINEERING SURVEY PARTY TO BE CONTACTED PRIOR TO WORK.
- CONTRACTOR MAY NOT BEGIN WORK UNTIL EXISTING MONUMENTATION IS DOCUMENTED BY CITY OF MERIDEN ENGINEERING SURVEY PARTY.
- CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AS-BUILTS ON ALL WORK, INCLUDING TIES TO ALL NEW OR MODIFIED UTILITIES. BONDS WILL NOT BE RELEASED UNTIL AS-BUILT INFORMATION IS SUBMITTED AND APPROVED BY THE ENGINEER.
- EXCAVATION OF ANY TYPE SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT UNDERGROUND UTILITIES OR STRUCTURES NOT IDENTIFIED FOR REMOVAL ARE NOT DAMAGED. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY FOR ANY DAMAGED INCURRED TO THESE FACILITIES DURING EXCAVATION OPERATIONS. ALL EXCAVATION SHALL BE IN CONFORMANCE WITH THE LATEST OSHA REQUIREMENTS.
- ALL PROPERTY OWNERS AFFECTED BY THE WORK MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
- PERMITTEE MUST CONTACT THE DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION AT (203) 537-3202 OR (203) 630-4019 A MINIMUM OF 24 HOURS PRIOR TO BEGINNING CONSTRUCTION. FAILURE TO DO SO MAY RESULT IN SHUT DOWN OF ACTIVITIES. PUBLIC WORKS CONSTRUCTION INSPECTION MUST INSPECT AND APPROVE ALL PERMITTED WORK. WORK WILL NOT BE ACCEPTED NOR WILL ANY BONDS BE RELEASED WITHOUT INSPECTION AND APPROVAL.

**GENERAL EROSION CONTROL REQUIREMENTS:**

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT TO THE GREATEST EXTENT POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURE TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES AND WATERBODIES, AND TO PREVENT, TO THE GREATEST EXTENT POSSIBLE, EROSION ON THE SITE.

CONSTRUCTION METHODS, IN GENERAL, SHALL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002) BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION.

- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AS BELOW AND AS SHOWN ON THE PLANS.
- ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK, INCLUDING PRE-CONSTRUCTION CLEARING AND GRUBBING.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REPLACED OR UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
- NO EROSION CONTROL MEASURE SHALL BE REMOVED WITHOUT APPROVAL FROM THE ENGINEER.
- ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF DEEMED NECESSARY BY THE ENGINEER.
- THE LIMITS OF CLEARING, GRADING AND DISTURBANCE, AS SHOWN ON THE PLAN(S), SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF CLEARING SHALL REMAIN UNDISTURBED.
- ALL NEW AND EXISTING CATCH BASINS LOCATED WITHIN THE PROJECT LIMITS SHALL BE PROTECTED WITH A SEDIMENTATION CONTROL SYSTEM (IN NON-PAVED AREAS) OR WITH A SEDIMENT CONTROL SACK (IN PAVED AREAS) UNTIL ALL DISTURBED AREAS HAVE REACHED PERMANENT STABILIZATION.
- SEDIMENT REMOVED FROM EROSION CONTROL MEASURES AND DRAINAGE FACILITIES SHALL BE DISPOSED IN A MANNER THAT IS CONSISTENT WITH STATE AND LOCAL REGULATIONS.
- THE PLANTING SEASON FOR THE SPECIFIED SEED MIXTURE SHALL BE AS DEFINED IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, UNLESS DIRECTED OTHERWISE BY THE CITY OF MERIDEN OR THEIR REPRESENTATIVE. OUTSIDE OF THESE SPECIFIED DATES, AREAS WILL BE STABILIZED WITH HAYBALE CHECK DAMS, FILTER FABRIC, OR WOODCHIP MULCH AS REQUIRED TO CONTROL EROSION.

**STANDARD ABBREVIATIONS**

- AASHTO - AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
- ACCP - ASPHALT COATED CORRUGATED PIPE
- AC - ACRES
- ACI - AMERICAN CONCRETE INSTITUTE
- A.D.A. - AMERICANS WITH DISABILITIES ACT
- ALUM. - ALUMINUM
- BC - BOTTOM OF CURB
- B.C.L.C. - BITUMINOUS CONCRETE LIP CURB
- BW - BOTTOM OF WALL
- CB - CATCH BASIN
- CMP - CORRUGATED METAL PIPE
- CPP - CORRUGATED PLASTIC PIPE
- DIA - DIAMETER
- DIP - DUCTILE IRON PIPE
- DMH - DRAINAGE MANHOLE
- EA - EACH
- E.B. - EASTBOUND
- EL - ELEVATION
- E.O.P. - EDGE OF PAVEMENT
- EXIST. - EXISTING
- EXP. - EXPANSION
- F.A.R - FLOOR AREA RATIO
- FD - FOOTING DRAIN
- FE - FLARED END OUTLET
- FF - FIRST FLOOR
- FT - FEET
- GALV. - GALVANIZED
- GR - GRATE
- HDPE - HIGH DENSITY POLYETHYLENE PIPE
- HW - HOT MIX ASPHALT
- HW - HEADWALL
- HYD - HYDRANT
- I.D. - INSIDE DIAMETER
- INV - INVERT
- JT. - JOINT
- MAX. - MAXIMUM
- MEG - MEET EXISTING GRADE
- MIN. - MINIMUM
- MH - MANHOLE
- MPH - MILES PER HOUR
- N.B. - NORTHBOUND
- O.C. - ON CENTER
- O.D. - OUTSIDE DIAMETER
- P.C. - POINT OF CURVATURE
- P.A.G. - POINT OF APPLICATION OF GRADE
- PCB - PROPOSED CATCH BASIN
- P.I. - POINT OF INTERSECTION
- PROP - PROPOSED
- P.S.I. - POUNDS PER SQUARE INCH
- PSMH - PROPOSED SANITARY MANHOLE
- P.T. - POINT OF TANGENCY
- PVC - POLYVINYL CHLORIDE PIPE
- PVC - POINT OF VERTICAL CURVATURE
- PVI - POINT OF VERTICAL INTERSECTION
- PVT - POINT OF VERTICAL TANGENCY
- PVMT. - PAVEMENT
- R - RADIUS
- RCP - REINFORCED CONCRETE PIPE
- RL - ROOF LEADER
- ROW - RIGHT OF WAY
- S.B. - SOUTHBOUND
- SF - SQUARE FEET
- SQ. - SQUARE
- SMH - SANITARY MANHOLE
- STA - STATION
- STD - STANDARD
- TC - TOP OF CURB
- TD - TRENCH DRAIN
- TW - TOP OF WALL
- TYP - TYPICAL
- U/G - UNDERGROUND
- W.B. - WESTBOUND
- WT. - WEIGHT
- W.W.F. - WELDED WIRE FABRIC
- YD - YARD DRAIN

**COORDINATION GROUPINGS:**

**BASE BID + ALTERNATE A:**

- \*TCS-01 WEST MAIN STREET AT ROUTE 71 (COOK AVENUE)
- TCS-03 WEST MAIN STREET AT BUTLER STREET
- TCS-05 WEST MAIN STREET AT GROVE STREET & SOUTH GROVE STREET
- \*TCS-04 HANOVER STREET AT BUTLER STREET
- TCS-06 HANOVER STREET AT SOUTH GROVE STREET
- TCS-08 HANOVER STREET AT COLONY STREET AND PERKINS STREET

- \*TCS-09/10 EAST MAIN STREET AT PRATT STREET AND PERKINS STREET & PERKINS STREET AT CROWN STREET
- TCS-12 EAST MAIN STREET AT STATE STREET
- ~TCS-07 WEST MAIN STREET AT COLONY STREET

**BASE BID + ALTERNATE B:**

- \*TCS-01 WEST MAIN STREET AT ROUTE 71 (COOK AVENUE)
- TCS-03 WEST MAIN STREET AT BUTLER STREET
- TCS-05 WEST MAIN STREET AT GROVE STREET & SOUTH GROVE STREET

- \*TCS-04 HANOVER STREET AT BUTLER STREET
- TCS-06 HANOVER STREET AT SOUTH GROVE STREET
- TCS-16 HANOVER STREET AT COLONY STREET AND PERKINS STREET

- \*TCS-09/10 EAST MAIN STREET AT PRATT STREET AND PERKINS STREET & PERKINS STREET AT CROWN STREET
- TCS-12 EAST MAIN STREET AT STATE STREET
- ~TCS-15 WEST MAIN STREET AT COLONY STREET

**FREE:**

- TCS-02 HANOVER STREET AT ROUTE 71 (COOK AVENUE)
- TCS-11 COLONY STREET AT CHURCH STREET
- TCS-13 WEST MAIN STREET AT PEDESTRIAN CROSSING
- TCS-14 HANOVER STREET PEDESTRIAN SIGNAL @ SENIOR CENTER

- \*MASTER INTERSECTION
- ~CENTRAL COMMUNICATIONS HUB

EXISTING	DESCRIPTION	PROPOSED
	SPOT ELEVATIONS INDEX	
	INTERMEDIATE CONTOURS	
	INDEX CONTOURS	
	BASELINE	
	RIGHT OF WAY LINE	
	PROPERTY LINE (ADJACENT)	
	EASEMENT LINE	
	BUILDING	
	STONE AND CONCRETE CURB	
	BITUMINOUS CONCRETE CURB	
	EDGE OF PAVEMENT	
	SIDEWALK	
	TRAFFIC PAINT LINE	
	CONCRETE WALL	
	CHAIN LINK FENCE	
	FENCE LINE	
	WOOD GUARDRAIL	
	TRAFFIC SIGN	
	LANDSCAPING LINE	
	TREES	
	LIGHT	
	CATCH BASIN	
	STORM DRAIN MANHOLE	
	STORM DRAIN UNDERGROUND	
	SANITARY SEWER MANHOLE	
	SANITARY SEWER UNDERGROUND	
	HYDRANT	
	WATER VALVE	
	UNDERGROUND PUBLIC WATER LINE	
	ELECTRICAL MANHOLE	
	UNDERGROUND ELECTRIC LINE	
	GAS VALVE	
	UNDERGROUND GAS LINE	
	UTILITY POLE	
	TELEPHONE MANHOLE	
	UNDERGROUND TELEPHONE LINE	
	CONCRETE SIDEWALK RAMP	

**GENERAL NOTES (CONT.):**

**GENERAL SIDEWALK NOTES:**

1. WHEN CONNECTING NEW CONCRETE SIDEWALK TO EXISTING CONCRETE SIDEWALK, THE CONNECTION SHALL BE MADE AT THE NEAREST JOINT OF THE EXISTING CONCRETE SIDEWALK.

2. SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CTDOT "CONCRETE SIDEWALK RAMP" DETAILS AT THE LOCATIONS SHOWN ON THE PLANS. THE SIDEWALK CURB RAMPS SHOWN ON "SIGNAL AND PAVEMENT MARKING PLAN" ARE FOR ILLUSTRATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL RAMPS COMPLIANT WITH ADA AND CTDOT/CITY OF MERIDEN STANDARDS. IN THE EVENT THAT AN ADA COMPLIANT RAMP CANNOT BE INSTALLED, THE CONTRACTOR SHALL NOTIFY THE CITY OF MERIDEN ENGINEER OR THEIR REPRESENTATIVE PRIOR TO EXCAVATION AND CONCRETE INSTALLATION FOR RESOLUTION.

3. SIDEWALK REPAIR AND REPLACEMENT MUST BE IN PLACE FOR ONE YEAR PRIOR TO BOND RELEASE.

4. PRIOR TO PLACEMENT OF CONCRETE, PERMITTEE MUST CONTACT PUBLIC WORKS CONSTRUCTION INSPECTION AT (203) 537-3202 OR (203) 630-4019 FOR FORM INSPECTION.

**GENERAL UTILITY NOTES:**

1. UTILITY INFORMATION AND DATA PROVIDED HEREIN IS FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG", 1-800-922-4455 OR WWW.CBYD.COM, 72 HOURS IN ADVANCE OF STARTING ANY WORK. PERMITS WILL NOT BE ISSUED UNTIL THE CONTRACTOR HAS A VALID "CALL BEFORE YOU DIG" NUMBER.

2. THE CONTRACTOR SHALL COORDINATE WORK WITH THE UTILITY COMPANIES PER CONTRACT DOCUMENTS.

3. THE ADJUSTMENT OF ALL WATER BOXES, GATES, AND MANHOLES TO FINISH GRADE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PAID FOR UNDER THE APPROPRIATE CONTRACT ITEM.

4. THE ADJUSTMENT OF TELEPHONE AND ELECTRIC UTILITIES SHALL BE THE RESPONSIBILITY OF THAT UTILITY, AND COORDINATED BY THE CONTRACTOR.

**SURVEY NOTES:**

1. APPROXIMATE CITY LAYOUT LINES BY ROBERT AMANTEA, DESIGN DEVELOPMENT GROUP, LLC WITH THE EXCEPTION OF RIGHT-OF-WAY AT THE NORTHWEST CORNER OF HANOVER STREET AT BUTLER STREET.

2. SURVEY BY PEREIRA ENGINEERING, LLC INCLUDING RIGHT OF WAY LINES AT THE NORTHWEST CORNER OF HANOVER STREET AT BUTLER STREET.

3. EXISTING CONDITIONS AT EAST MAIN STREET STA. 66+43 to STA. 68+11, HANOVER STREET STA. 93+34 to 94+92, COOK AVENUE STA. 21+91 to STA. 25+97, BUTLER STREET STA. 2+24 to STA. 3+58, AND SOUTH GROVE STREET STA. 13+49 to STA. 13+64 DIGITIZED BY CDM SMITH FROM CONNECTICUT ENVIRONMENTAL CONDITIONS ONLINE 2016 ORTHOPHOTOGRAPHY AND AERIAL IMAGERY.

**TRAFFIC NOTES:**

1. UNIFORMED CITY OF MERIDEN POLICE OFFICER(S) TO PROVIDE TRAFFIC CONTROL ON CITY ROADWAYS. POLICE SCHEDULING CAN BE REACHED AT 203-630-6305.



2. CONTRACTOR MUST RESTORE PAVEMENT MARKINGS DISTURBED BY THE CONSTRUCTION IMMEDIATELY UPON COMPLETION OF THE WORK IN MATERIALS SUITABLE TO DPW - TRAFFIC DIVISION. TEMPORARY TAPE, IF USED, MUST BE MAINTAINED IN GOOD CONDITION.

				DESIGNER/DRAFTER: CJS		77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM	SIGNATURE/ BLOCK:		PROJECT TITLE:	TOWN:	PROJECT NO. <b>0079-0241</b>
				CHECKED BY: RRH					CITY OF MERIDEN <b>INTERSECTION IMPROVEMENTS</b>		
				NOT TO SCALE					DRAWING TITLE:		SHEET NO. <b>2</b>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/16/20		File name: HW_MSH_GEN.DWG			<b>GENERAL NOTES, LEGEND, &amp; ABBREVIATIONS</b>		





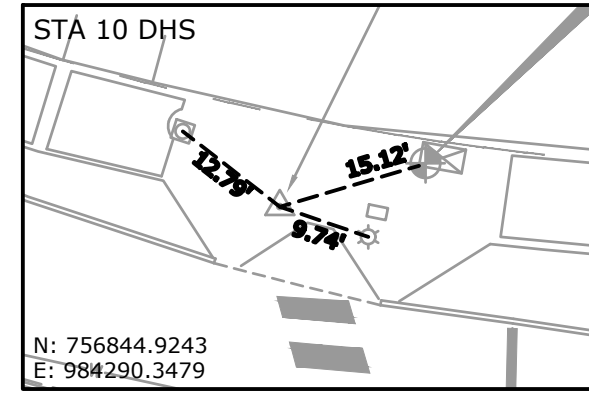


ITEM No.	ITEM DESCRIPTION	UNIT	ALTERNATE A			ALTERNATE B			ALTERNATE C			ALTERNATE D			ALTERNATE E							
			TCS-07 - WEST MAIN STREET AT COLONY STREET		GENERAL	TOTAL	TCS-08 - HANOVER STREET AT COLONY STREET AND PERKINS STREET		GENERAL	TOTAL	TCS-11 - COLONY STREET AT CHURCH STREET		GENERAL	TOTAL	TCS-15 - WEST MAIN STREET AT COLONY STREET		GENERAL	TOTAL	TCS-16 - HANOVER STREET AT COLONY STREET AND PERKINS STREET		GENERAL	TOTAL
			QUANTITY	UNASSIGNED QUANTITY	UNASSIGNED QUANTITY	QUANTITY	QUANTITY	UNASSIGNED QUANTITY	UNASSIGNED QUANTITY	QUANTITY	QUANTITY	UNASSIGNED QUANTITY	UNASSIGNED QUANTITY	QUANTITY	QUANTITY	UNASSIGNED QUANTITY	UNASSIGNED QUANTITY	QUANTITY	QUANTITY	UNASSIGNED QUANTITY	UNASSIGNED QUANTITY	QUANTITY
0201001	CLEARING AND GRUBBING	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0202451	A TEST PIT EXCAVATION	CY	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	
0202513	REMOVAL OF CONCRETE SIDEWALK	SY	78	0	0	78	175	0	0	175	0	0	0	78	0	0	78	175	0	0	175	
0202529	CUT BITUMINOUS CONCRETE PAVEMENT	LF	34	0	0	34	0	0	0	0	0	0	34	0	0	34	0	0	0	0	0	
0219001	SEDIMENTATION CONTROL SYSTEM	LF	50	0	0	50	50	0	0	50	50	0	50	50	0	50	50	0	0	50	50	
0219011	SEDIMENTATION CONTROL SYSTEM AT CATCH BASIN	EA	6	0	0	6	3	0	0	3	2	0	2	6	0	0	6	3	0	0	3	
0404100	A BITUMINOUS CONCRETE PATCHING - FULL DEPTH	SY	31	0	0	31	16	0	0	16	0	0	0	31	0	0	31	16	0	0	16	
0504009	RAILROAD PROTECTION (ESTIMATED COST)	EST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0507224	TYPE "C-L" CATCH BASIN TOP	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0507721	RESET TYPE "C-L" CATCH BASIN	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0686950.10	A REMOVE EXISTING PIPE - 0' - 10' DEEP	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0813001	5' GRANITE STONE CURBING	LF	0	0	0	0	17	0	0	17	0	0	0	0	0	0	0	17	0	0	17	
0813010	A REMOVAL OF GRANITE STONE CURBING	LF	69	0	0	69	67	0	0	67	0	0	0	69	0	0	69	67	0	0	67	
0813011	5' GRANITE CURVED STONE CURBING	LF	69	0	0	69	53	0	0	53	0	0	0	69	0	0	69	53	0	0	53	
0813014	A 5' GRANITE CURVED STONE CURBING (SPECIAL)	LF	25	0	0	25	0	0	0	0	0	0	25	0	0	25	0	0	0	0	0	
0814002	RESET GRANITE STONE CURBING	LF	0	0	0	0	7	0	0	7	0	0	0	0	0	0	0	7	0	0	7	
0814005	RESET GRANITE CURVED STONE CURBING	LF	28	0	0	28	21	0	0	21	0	0	0	28	0	0	28	21	0	0	21	
0915000	TREE PROTECTION	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0921001	CONCRETE SIDEWALK	SF	470	0	0	470	1,052	0	0	1,052	0	0	0	470	0	0	470	1,052	0	0	1,052	
0921005	CONCRETE SIDEWALK RAMP	SF	235	0	0	235	526	0	0	526	0	0	0	235	0	0	235	526	0	0	526	
0921015	A MOUNTABLE CURB ISLAND	SF	35	0	0	35	0	0	0	0	0	0	35	0	0	35	0	0	0	0	0	
0921039	DETECTABLE WARNING STRIP	EA	4	0	0	4	4	0	0	4	0	0	0	4	0	0	4	4	0	0	4	
0944000	FURNISHING AND PLACING TOPSOIL	SY	15	0	0	15	15	0	0	15	15	0	0	15	15	0	0	15	15	0	0	15
0950005	TURF ESTABLISHMENT	SY	15	0	0	15	15	0	0	15	15	0	0	15	15	0	0	15	15	0	0	15
0952001	A SELECTIVE CLEARING AND THINNING	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0969062	A CONSTRUCTION FIELD OFFICE, MEDIUM	MO	0	0	1	1	0	0	1	1	0	0	2	0	0	1	1	0	0	1	1	
0970006	TRAFFICPERSON (MUNICIPAL POLICE OFFICER) (ESTIMATED COST)	EST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0970007	TRAFFICPERSON (UNIFORMED FLAGGER)	HR	0	0	10	10	0	0	10	10	0	0	10	0	0	10	0	0	10	0	10	
0971001	A MAINTENANCE AND PROTECTION OF TRAFFIC	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0975004	MOBILIZATION AND PROJECT CLOSEOUT	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0976002	BARRICADE WARNING LIGHTS - HIGH INTENSITY	DAY	0	0	50	50	0	0	50	50	0	0	50	0	0	50	50	0	0	50	50	
0977001	TRAFFIC CONE	EA	0	0	5	5	0	0	5	5	0	0	5	0	0	5	5	0	0	5	5	
0978002	TRAFFIC DRUM	EA	0	0	5	5	0	0	5	5	0	0	5	0	0	5	5	0	0	5	5	
0979003	CONSTRUCTION BARRICADE TYPE III	EA	0	0	1	1	0	0	1	1	0	0	1	0	0	1	1	0	0	1	1	
0979004	A CONSTRUCTION BARRICADE DETECTABLE	EA	0	0	1	1	0	0	1	1	0	0	0	0	0	1	1	0	0	1	1	
0980001	CONSTRUCTION STAKING	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0992092	A REMOVE AND STACK BRICK PAVERS	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1001001	A TRENCHING AND BACKFILLING	LF	452	0	0	452	412	0	0	412	206	0	0	206	0	0	0	0	0	0	0	
1001004	ROCK IN TRENCH EXCAVATION(0' - 4' DEEP)	CY	0	4	0	4	0	4	0	4	0	4	0	0	0	0	0	0	0	0	0	
1002015	ROCK IN FOUNDATION EXCAVATION	VF	8	0	0	8	4	0	0	4	4	0	0	4	0	0	0	0	0	0	0	
1002201	A TRAFFIC CONTROL FOUNDATION- SPAN POLE	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1002202	A TRAFFIC CONTROL FOUNDATION- MAST ARM	EA	3	0	0	3	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	
1002203	TRAFFIC CONTROL FOUNDATION- PEDESTAL-TYPE I	EA	3	0	0	3	2	0	0	2	1	0	0	1	0	0	0	0	0	0	0	
1002208	TRAFFIC CONTROL FOUNDATION - CONTROLLER - TYPE IV	EA	1	0	0	1	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	
1003902	POLE REMOVAL (STREET LIGHT POLE)	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1008115	2" RIGID METAL CONDUIT IN TRENCH	LF	438	0	0	438	151	0	0	151	76	0	0	76	0	0	0	0	0	0	0	
1008117	3" RIGID METAL CONDUIT IN TRENCH	LF	25	0	0	25	0	0	0	0	22	0	0	22	0	0	0	0	0	0	0	
1008215	2" RIGID METAL CONDUIT UNDER ROADWAY	LF	420	0	0	420	607	0	0	607	378	0	0	378	0	0	0	0	0	0	0	
1008217	3" RIGID METAL CONDUIT UNDER ROADWAY	LF	133	0	0	133	0	0	0	0	74	0	0	74	0	0	0	0	0	0	0	
1008908	A CLEAN EXISTING CONDUIT	LF	0	40	0	40	0	40	0	40	0	20	0	20	0	0	0	0	0	0	0	
1010001	CONCRETE HANDHOLE	EA	4	0	0	4	2	0	0	2	3	0	0	3	0	0	0	0	0	0	0	
1010021	CONCRETE HANDHOLE - TYPE II	EA	3	0	0	3	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	
1010052	CAST IRON HANDHOLE COVER	EA	4	0	0	4	2	0	0	2	3	0	0	3	0	0	0	0	0	0	0	
1010054	CAST IRON HANDHOLE COVER, TYPE II	EA	2	0	0	2	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	
1010060	A CLEAN EXISTING CONCRETE HANDHOLE	EA	0	2	0	2	0	2	0	2	0	1	0	1	0	0	0	0	0	0	0	
1015034	A GROUNDING AND BONDING	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1017030	A SERVICE	EA	1	0	0	1	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	
1102002	A 8" ALUMINUM PEDESTAL	EA	3	0	0	3	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	
1102008	A 4'-4" ALUMINUM PEDESTAL	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1102010	A 12" ALUMINUM PEDESTAL	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1103022	A 30" STEEL SPAN POLE	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1104023	A 20" STEEL MAST ARM ASSEMBLY	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1104026	A 25" STEEL MAST ARM ASSEMBLY	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1104028	A 30" STEEL MAST ARM ASSEMBLY	EA	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1104031	A 35" STEEL MAST ARM ASSEMBLY	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1104033	A 40" STEEL MAST ARM ASSEMBLY	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1104037	A 45" STEEL MAST ARM ASSEMBLY	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1104038	A 50" STEEL MAST ARM ASSEMBLY	EA	1	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	
1104101	A 25' AND 15' TWIN STEEL MAST ARM ASSEMBLY	EA	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1104102	A 35' AND 20' TWIN STEEL MAST ARM ASSEMBLY	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1104103	A 35' AND 30' TWIN STEEL MAST ARM ASSEMBLY	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1104104	A 40' AND 25' TWIN STEEL MAST ARM ASSEMBLY	EA	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
1104105	A 45' AND 40' TWIN STEEL MAST ARM ASSEMBLY	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

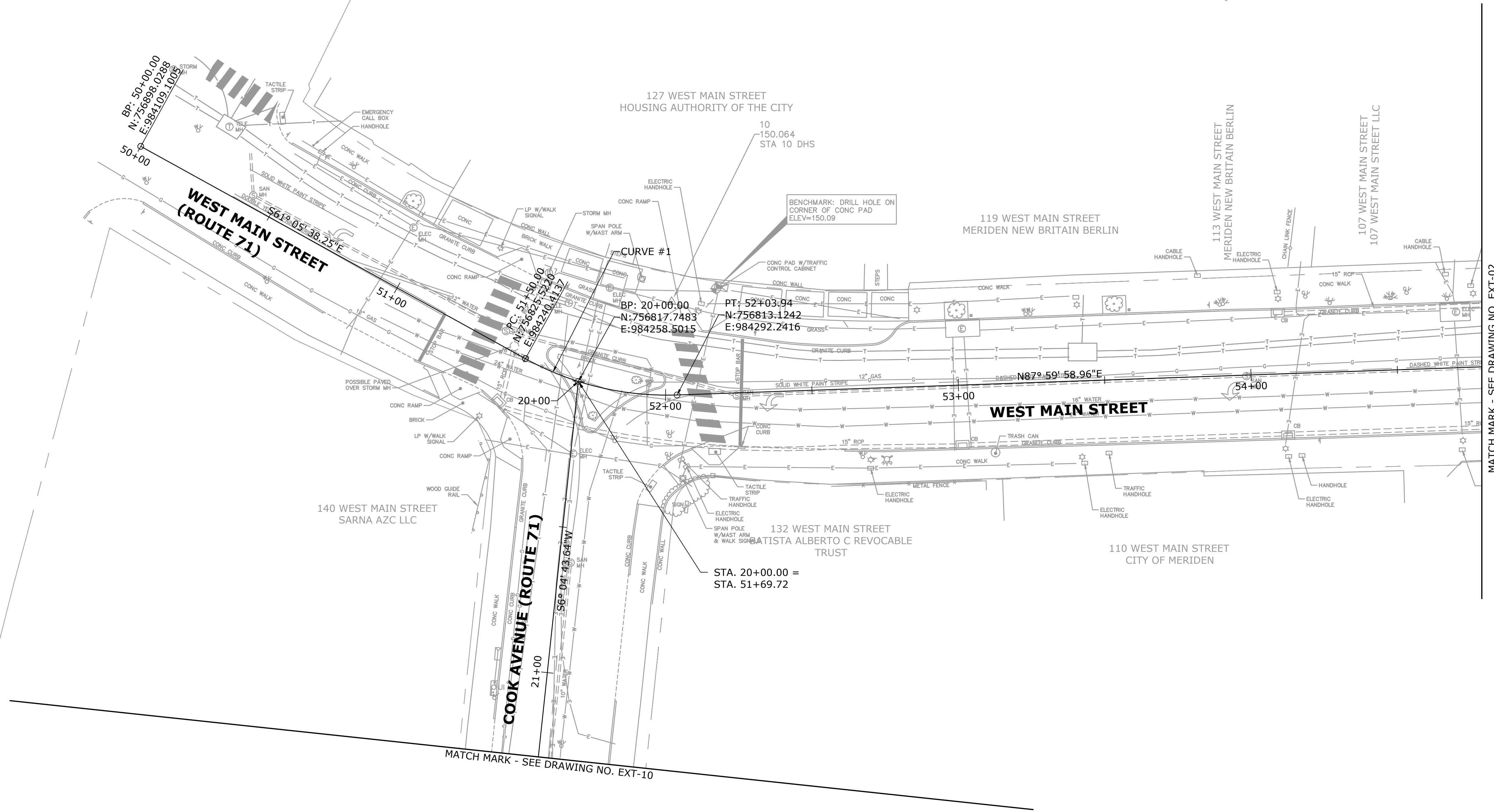
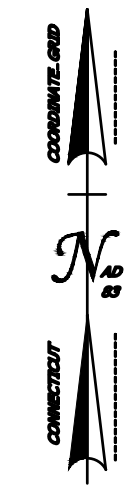
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/13/21	DESIGNER/DRAFTER: CJS	CHECKED BY: RRH	NOT TO SCALE	 77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM	SIGNATURE/ BLOCK:		PROJECT TITLE: <b>CITY OF MERIDEN INTERSECTION IMPROVEMENTS</b>	TOWN: <b>MERIDEN</b>	PROJECT NO. <b>0079-0241</b>
											DRAWING TITLE: <b>DETAILED ESTIMATE SHEET</b>	DRAWING NO. <b>EST-03</b>	

ITEM No.	ITEM DESCRIPTION	UNIT	ALTERNATE A			ALTERNATE B			ALTERNATE C			ALTERNATE D			ALTERNATE E							
			TCS-07 - WEST MAIN STREET AT COLONY STREET		GENERAL	TOTAL	TCS-08 - HANOVER STREET AT COLONY STREET AND PERKINS STREET		GENERAL	TOTAL	TCS-11 - COLONY STREET AT CHURCH STREET		GENERAL	TOTAL	TCS-15 - WEST MAIN STREET AT COLONY STREET		GENERAL	TOTAL	TCS-16 - HANOVER STREET AT COLONY STREET AND PERKINS STREET		GENERAL	TOTAL
			QUANTITY	UNASSIGNED QUANTITY	UNASSIGNED QUANTITY	QUANTITY	QUANTITY	UNASSIGNED QUANTITY	UNASSIGNED QUANTITY	QUANTITY	QUANTITY	UNASSIGNED QUANTITY	UNASSIGNED QUANTITY	QUANTITY	QUANTITY	UNASSIGNED QUANTITY	UNASSIGNED QUANTITY	QUANTITY	QUANTITY	UNASSIGNED QUANTITY	UNASSIGNED QUANTITY	QUANTITY
1105001 A	1 WAY, 1 SECTION SPAN WIRE TRAFFIC SIGNAL	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1105003 A	1 WAY, 3 SECTION SPAN WIRE TRAFFIC SIGNAL	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1105074 A	1 WAY, 3 SECTION SPAN WIRE TRAFFIC SIGNAL - PROGRAMMED	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1105101 A	1 WAY, 1 SECTION MAST ARM TRAFFIC SIGNAL	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1105103 A	1 WAY, 3 SECTION MAST ARM TRAFFIC SIGNAL	EA	9	0	0	9	4	0	0	4	6	0	0	6	0	0	0	0	0	0	0	
1105151 A	1 WAY, 3 SECTION POLE MOUNTED TRAFFIC SIGNAL, PROGRAMMED	EA	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
1105203 A	1 WAY, 3 SECTION POLE MOUNTED TRAFFIC SIGNAL	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1105303 A	1 WAY, 3 SECTION PEDESTAL MOUNTED TRAFFIC SIGNAL	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1106001 A	1 WAY PEDESTRIAN SIGNAL POLE MOUNTED	EA	1	0	0	1	2	0	0	2	3	0	0	3	0	0	0	0	0	0	0	
1106002 A	2 WAY PEDESTRIAN SIGNAL POLE MOUNTED	EA	1	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	
1106003 A	1 WAY PEDESTRIAN SIGNAL PEDESTAL MOUNTED	EA	2	0	0	2	2	0	0	2	1	0	0	1	0	0	0	0	0	0	0	
1106004 A	2 WAY PEDESTRIAN SIGNAL PEDESTAL MOUNTED	EA	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1107007 A	PEDESTRIAN PUSH BUTTON AND SIGN (PIEZO)	EA	8	0	0	8	4	0	0	4	6	0	0	6	0	0	0	0	0	0	0	
1108011 A	CLOSED LOOP CENTRAL SOFTWARE	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1108116 A	FULLY ACTUATED CONTROLLER WITH ACTUATED PEDESTRIAN PHASE (TO PHASE)	EA	1	0	0	1	1	0	0	1	1	0	0	1	0	0	0	1	1	0	1	
1108163 A	MODIFY EXISTING CONTROLLER	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1108725 A	PHASE SELECTOR (MODIFIED)	EA	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1108808 A	TRAINING	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1111407 A	CAMERA VIDEO DETECTION SYSTEM - GRIDSMART	EA	1	0	0	1	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	
1112413 A	DETECTOR (TYPE A) (MODIFIED)	EA	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1112471 A	PRE-EMPTION SYSTEM CHASSIS (MODIFIED)	EA	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1113049	2 CONDUCTOR NO. 8 CABLE	LF	174	0	0	174	0	0	0	0	133	0	0	133	0	0	0	0	0	0	0	
1113062	3 CONDUCTOR NO. 8 CABLE	LF	143	0	0	143	112	0	0	112	63	0	0	63	0	0	0	0	0	0	0	
1113102	5 CONDUCTOR NO. 14 CABLE	LF	3,161	0	0	3,161	1,085	0	0	1,085	965	0	0	965	0	0	0	0	0	0	0	
1113103	7 CONDUCTOR NO. 14 CABLE	LF	716	0	0	716	417	0	0	417	775	0	0	775	0	0	0	0	0	0	0	
1113104	9 CONDUCTOR NO. 14 CABLE	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1113125	25 CONDUCTOR NO. 14 CABLE	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1113398 A	CABLE CLOSURE (TYPE A)	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1113446	NO. 19 AWG, 12 TWISTED PAIR, COMMUNICATION CABLE	LF	20	0	0	20	20	0	0	20	0	0	0	0	0	0	0	0	0	0	0	
1113511 A	RELOCATE RAILROAD PRE-EMPTION CABLE (SITE NO. 1)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1113512 A	RELOCATE RAILROAD PRE-EMPTION CABLE (SITE NO. 2)	LS	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1113513 A	RELOCATE RAILROAD PRE-EMPTION CABLE (SITE NO. 3)	LS	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
1113514 A	RELOCATE RAILROAD PRE-EMPTION CABLE (SITE NO. 4)	LS	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	
1113515 A	RELOCATE RAILROAD PRE-EMPTION CABLE (SITE NO. 5)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
1113516 A	RELOCATE RAILROAD PRE-EMPTION CABLE (SITE NO. 6)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1113552 A	DETECTOR CABLE (OPTICAL) (MODIFIED)	LF	732	0	0	732	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1113812 A	UNINTERRUPTIBLE POWER SUPPLY	EA	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
1114106 A	SPAN WIRE, HIGH STRENGTH	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118012 A	REMOVAL AND/OR RELOCATION OF TRAFFIC SIGNAL EQUIPMENT	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118051 A	TEMPORARY SIGNALIZATION (SITE NO. 1)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118052 A	TEMPORARY SIGNALIZATION (SITE NO. 2)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118053 A	TEMPORARY SIGNALIZATION (SITE NO. 3)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118054 A	TEMPORARY SIGNALIZATION (SITE NO. 4)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118055 A	TEMPORARY SIGNALIZATION (SITE NO. 5)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118056 A	TEMPORARY SIGNALIZATION (SITE NO. 6)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118057 A	TEMPORARY SIGNALIZATION (SITE NO. 7)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118058 A	TEMPORARY SIGNALIZATION (SITE NO. 8)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118059 A	TEMPORARY SIGNALIZATION (SITE NO. 9)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118060 A	TEMPORARY SIGNALIZATION (SITE NO. 10)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118071 A	TEMPORARY SIGNALIZATION (SITE NO. 11)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118072 A	TEMPORARY SIGNALIZATION (SITE NO. 12)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118073 A	TEMPORARY SIGNALIZATION (SITE NO. 13)	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1118122 A	INTERNALLY ILLUMINATED SIGN	EA	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1131002 A	REMOTE CONTROL CHANGEABLE MESSAGE SIGN	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1206023 A	REMOVAL AND RELOCATION OF EXISTING SIGNS	LS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1208931 A	SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING)	SF	84	0	0	84	55	0	0	55	0	0	0	84	0	0	84	55	0	0	55	
1209002	PAINTED PAVEMENT MARKINGS 6" WHITE	LF	208	0	0	208	438	0	0	438	0	0	0	0	0	0	0	0	0	0	0	
1209005	PAINTED PAVEMENT MARKINGS 4" WHITE	LF	1,335	0	0	1,335	455	0	0	455	0	0	0	1,335	0	0	1,335	455	0	0	455	
1209007	PAINTED PAVEMENT MARKINGS 4" YELLOW	LF	205	0	0	205	0	0	0	0	0	0	0	205	0	0	205	0	0	0	0	
1209008	PAINTED PAVEMENT MARKINGS 8" WHITE	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1209009	PAINTED PAVEMENT MARKINGS 12" WHITE	LF	208	0	0	208	438	0	0	438	0	0	0	208	0	0	208	438	0	0	438	
1209050	PAINTED PAVEMENT MARKINGS (GENERAL)	SF	980	0	0	980	498	0	0	498	0	0	0	980	0	0	980	498	0	0	498	
1210101	4" WHITE EPOXY RESIN PAVEMENT MARKINGS	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1210102	4" YELLOW EPOXY RESIN PAVEMENT MARKINGS	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1210105	EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS AND LEGENDS	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1210106	12" WHITE EPOXY RESIN PAVEMENT MARKINGS	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1211001	REMOVAL OF PAVEMENT MARKINGS	SF	977	0	0	977	1,104	0	0	1,104	0	0	0	977	0	0	977	1,104	0	0	1,104	
1220027	CONSTRUCTION SIGNS	SF	0	25	25	50	0	25	25	50	0	50	50	100	0	25	25	50	0	25	50	
1302053 A	RESET WATER GATE	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1403501	RESET MANHOLE (SANITARY SEWER)	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/13/21	DESIGNER/DRAFTER: CJS	CHECKED BY: RRH	<b>NOT TO SCALE</b>	 <p>77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM</p>	SIGNATURE/BLOCK: 	PROJECT TITLE: <b>CITY OF MERIDEN INTERSECTION IMPROVEMENTS</b>	TOWN: <b>MERIDEN</b>	DRAWING TITLE: <b>DETAILED ESTIMATE SHEET</b>	PROJECT NO. <b>0079-0241</b>	DRAWING NO. <b>EST-04</b>	SHEET NO. <b>6</b>
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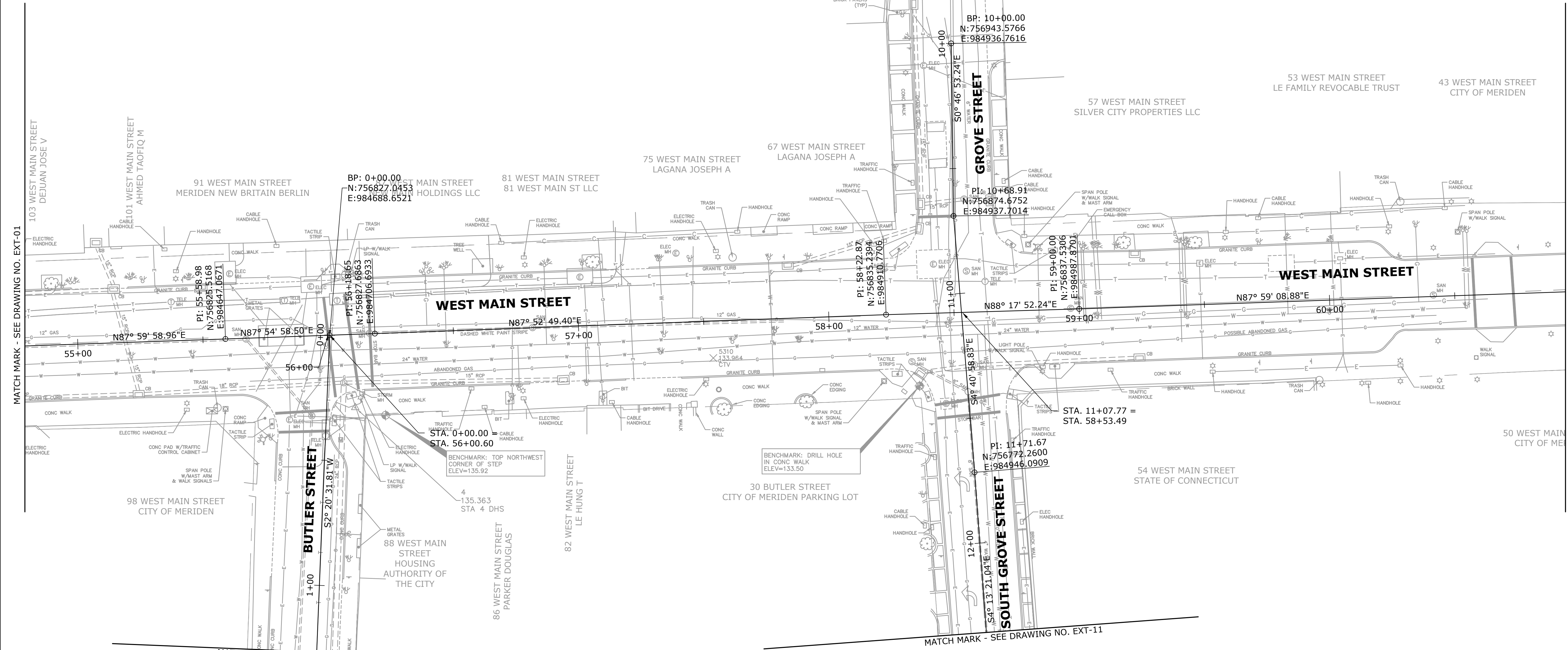
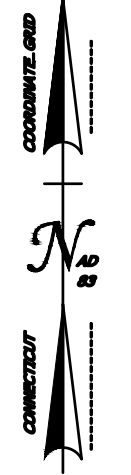
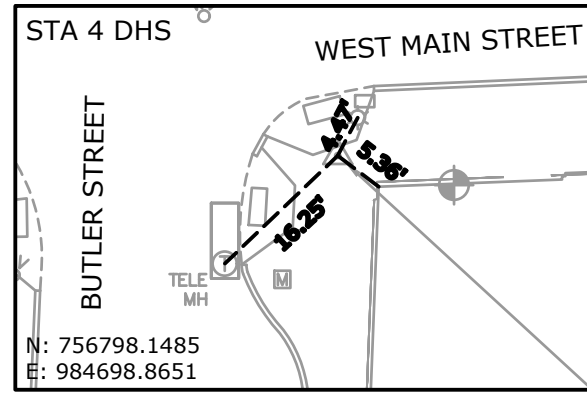
WEST MAIN STREET  
CURVE #1  
 $\Delta = 30^\circ 55' 02.34''$   
 $T = 27.65'$   
 $L = 53.96'$   
 $R = 100.00'$   
 $PI N = 756812.1543$   
 $PI E = 984264.6230$   
 $PI STA = 51+77.66$



MATCH MARK - SEE DRAWING NO. EXT-02

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/16/20	DESIGNER/DRAFTER: CJS		77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM	SIGNATURE/ BLOCK: 	PROJECT TITLE:  <b>CITY OF MERIDEN INTERSECTION IMPROVEMENTS</b>	TOWN:  <b>MERIDEN</b>	PROJECT NO. <b>0079-0241</b>
					CHECKED BY: SAH						SCALE IN FEET SCALE 1"=20'

File name: HW\_MSH\_EXT.DWG



MATCH MARK - SEE DRAWING NO. EXT-01

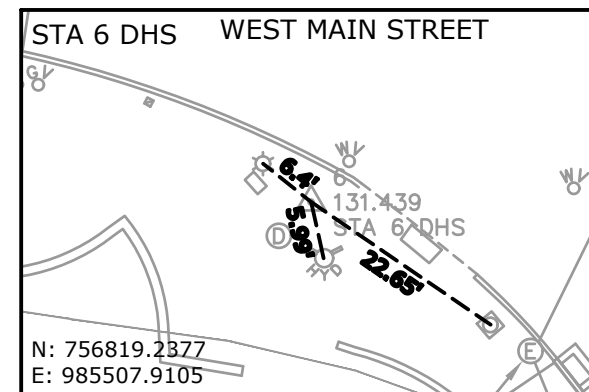
MATCH MARK - SEE DRAWING NO. EXT-03

MATCH MARK - SEE DRAWING NO. EXT-11

MATCH MARK - SEE DRAWING NO. EXT-11

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/16/20	DESIGNER/DRAFTER: CJS		77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM	SIGNATURE/ BLOCK:		PROJECT TITLE:  <b>CITY OF MERIDEN INTERSECTION IMPROVEMENTS</b>	TOWN:  <b>MERIDEN</b>	PROJECT NO. <b>0079-0241</b>
					CHECKED BY: SAH							
					SCALE IN FEET 0 20 40 SCALE 1"=20'	File name: HW_MSH_EXT.DWG				DRAWING TITLE: <b>EXISTING CONDITIONS PLAN</b>	SHEET NO. <b>8</b>	



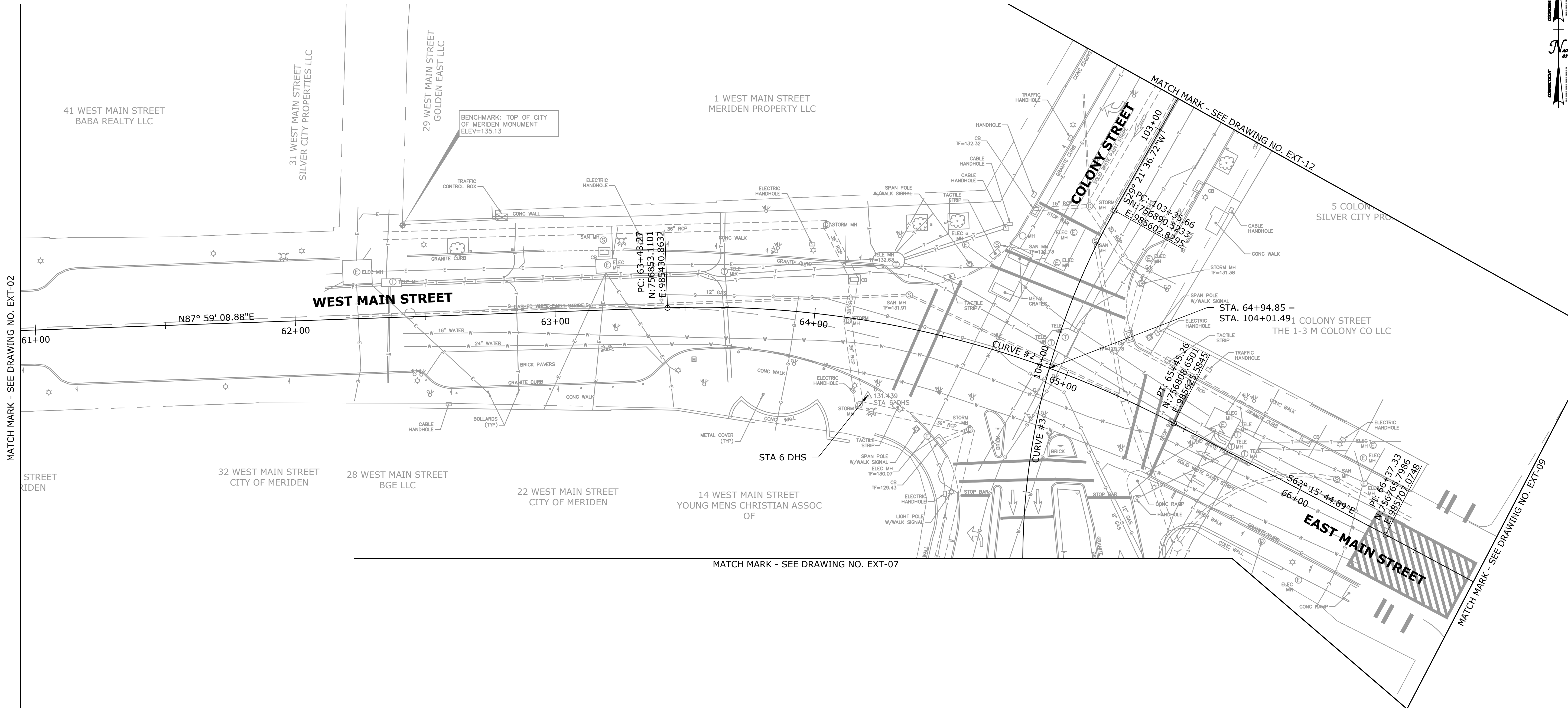


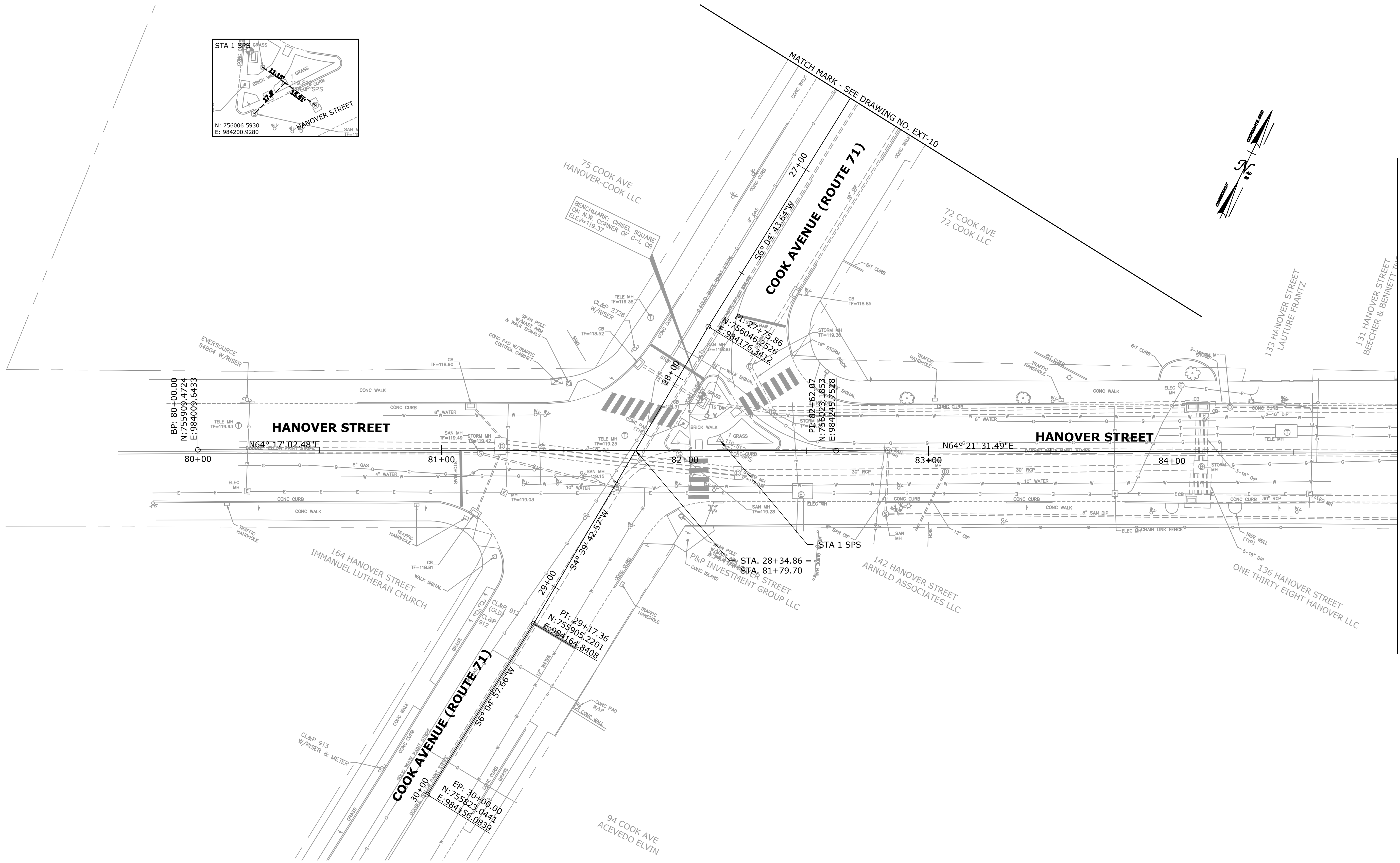
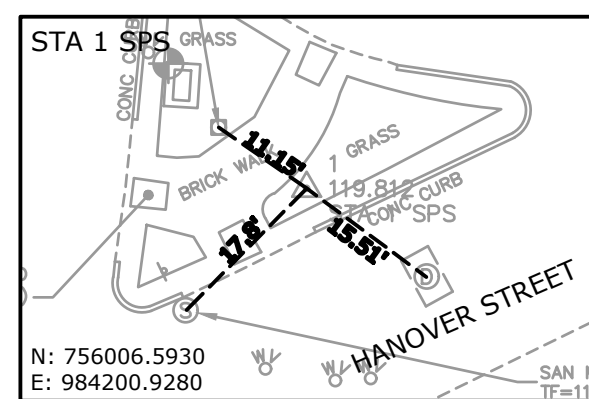
**WEST MAIN STREET  
CURVE #2**

$\Delta = 29^\circ 42' 18.48''$   
 $T = 103.16'$   
 $L = 201.68'$   
 $R = 389.00'$   
 PI N = 756856.6917  
 PI E = 985532.8513  
 PI STA = 64+45.32

**COLONY STREET  
CURVE #3**

$\Delta = 38^\circ 11' 53.18''$   
 $T = 95.22'$   
 $L = 183.34'$   
 $R = 275.00'$   
 PI N = 756807.5319  
 PI E = 985556.1422  
 PI STA = 104+30.88

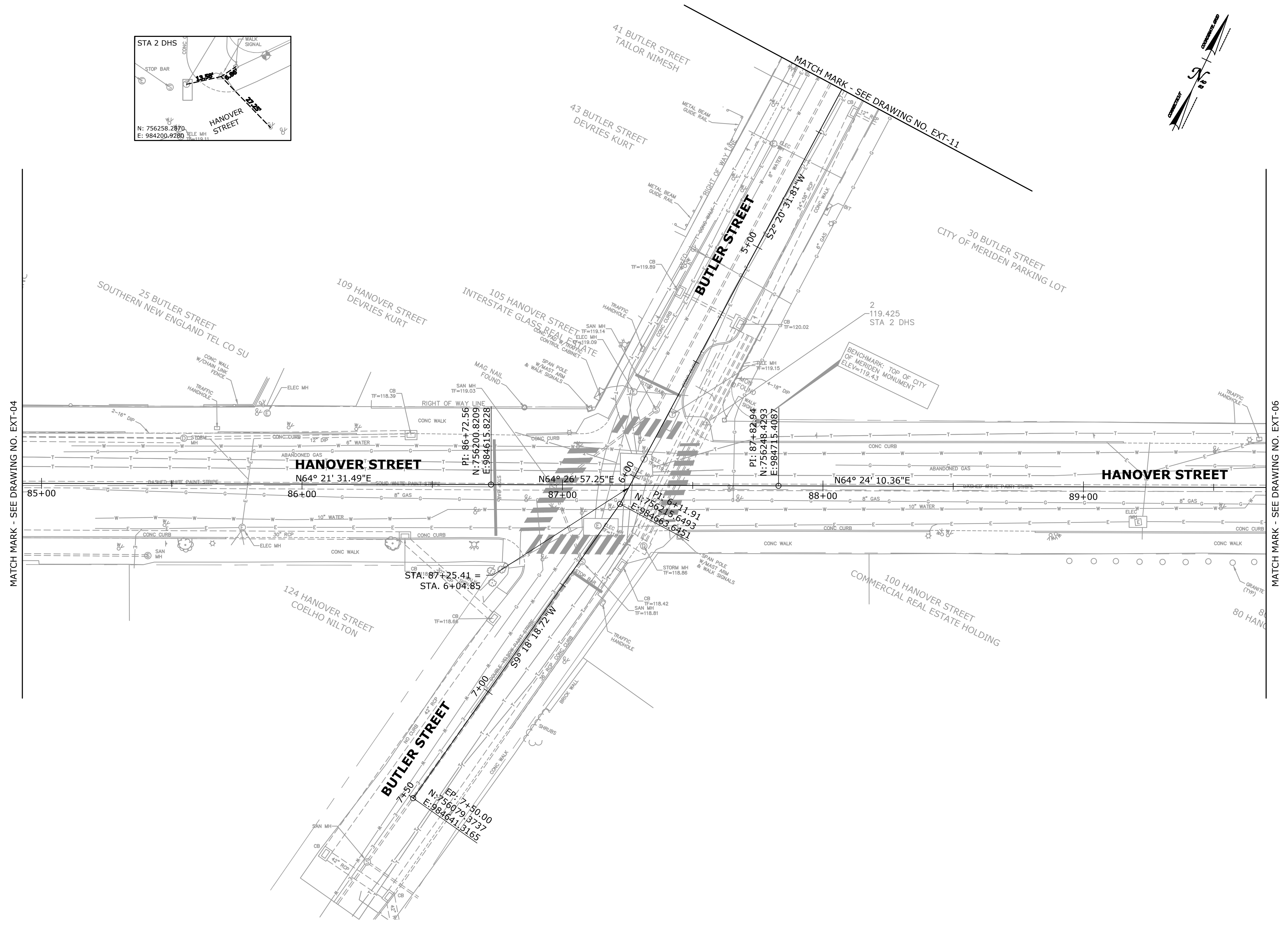
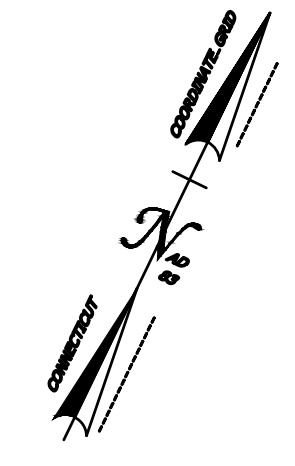
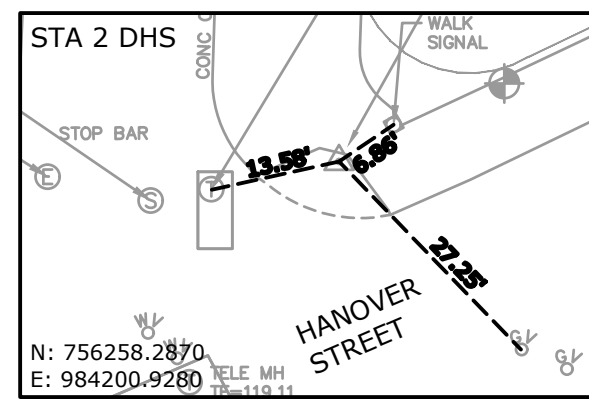




MATCH MARK - SEE DRAWING NO. EXT-05

REV.    DATE    REVISION DESCRIPTION    SHEET NO.    Plotted Date: 11/16/20		DESIGNER/DRAFTER: <b>CJS</b> CHECKED BY: <b>SAH</b> SCALE IN FEET  SCALE 1"=20'	 77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM	SIGNATURE/ BLOCK: 	PROJECT TITLE: <p style="text-align: center;"><b>CITY OF MERIDEN INTERSECTION IMPROVEMENTS</b></p>	TOWN: <p style="text-align: center;"><b>MERIDEN</b></p> DRAWING TITLE: <p style="text-align: center;"><b>EXISTING CONDITIONS PLAN</b></p>	PROJECT NO. <b>0079-0241</b> DRAWING NO. <b>EXT-04</b> SHEET NO. <b>10</b>
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File name: HW\_MSH\_EXT.DWG



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/16/20

DESIGNER/DRAFTER: CJS  
 CHECKED BY: SAH  
 SCALE IN FEET  
 0 20 40  
 SCALE 1"=20'

77 HARTLAND STREET, SUITE 201  
 EAST HARTFORD, CT 06108  
 PHONE: 860-529-7615  
 FAX: 860-290-7845  
 WWW.CDMSMITH.COM

File name: HW\_MSH\_EXT.DWG

SIGNATURE/BLOCK:

PROJECT TITLE:  
**CITY OF MERIDEN  
 INTERSECTION IMPROVEMENTS**

TOWN:  
**MERIDEN**

DRAWING TITLE:  
**EXISTING CONDITIONS  
 PLAN**

PROJECT NO.  
**0079-0241**

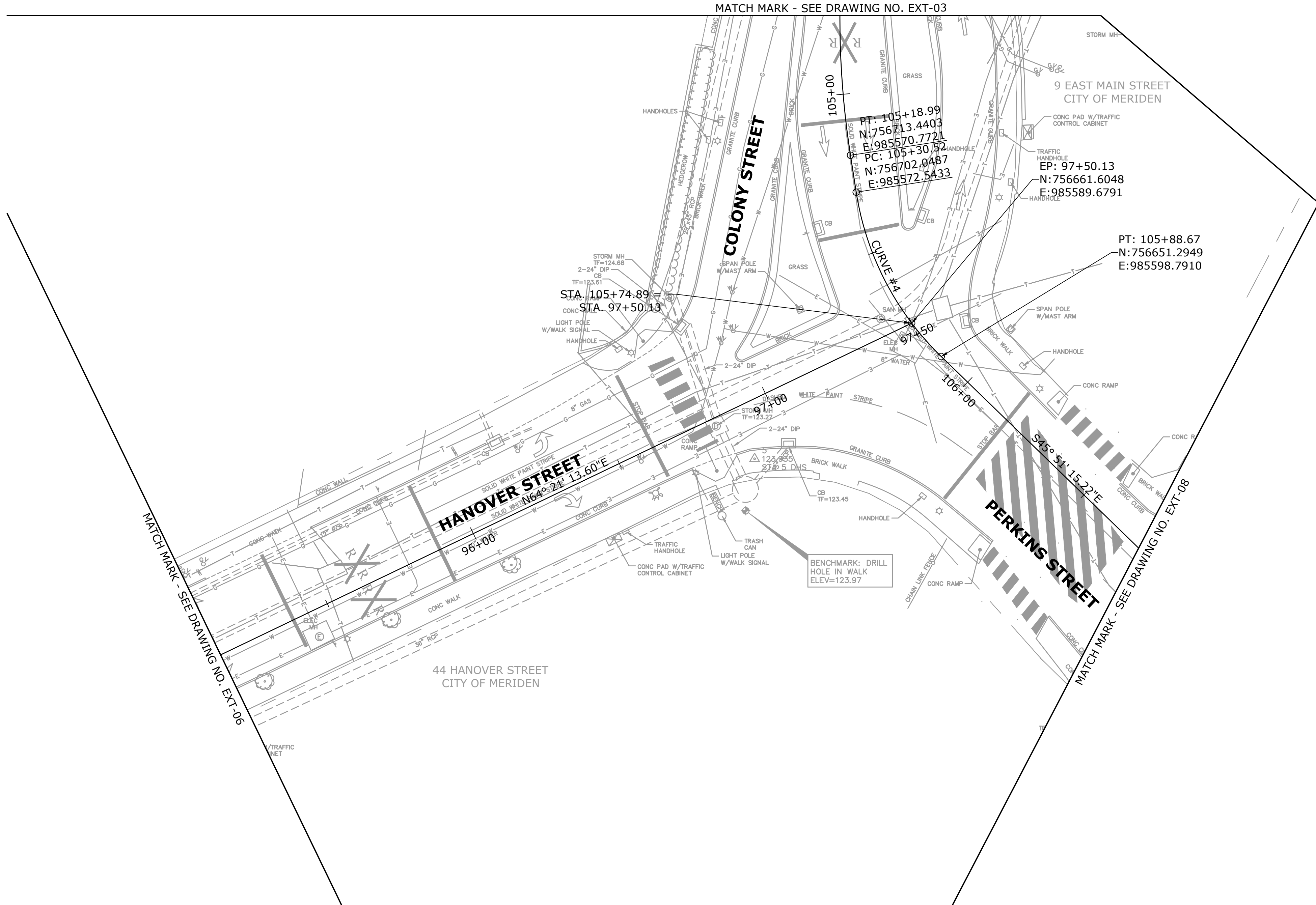
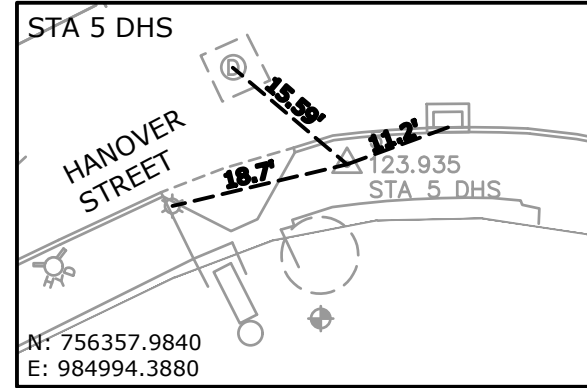
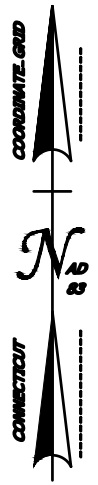
DRAWING NO.  
**EXT-05**

SHEET NO.  
**11**

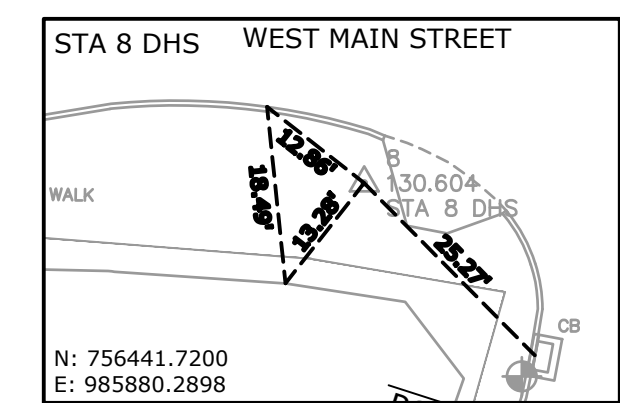
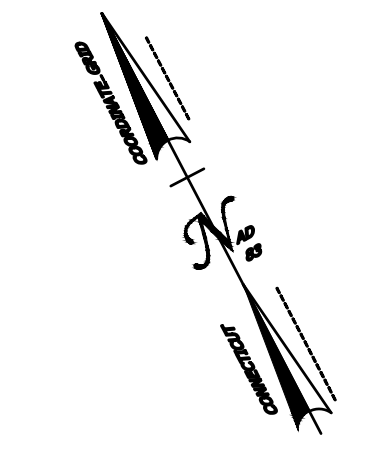
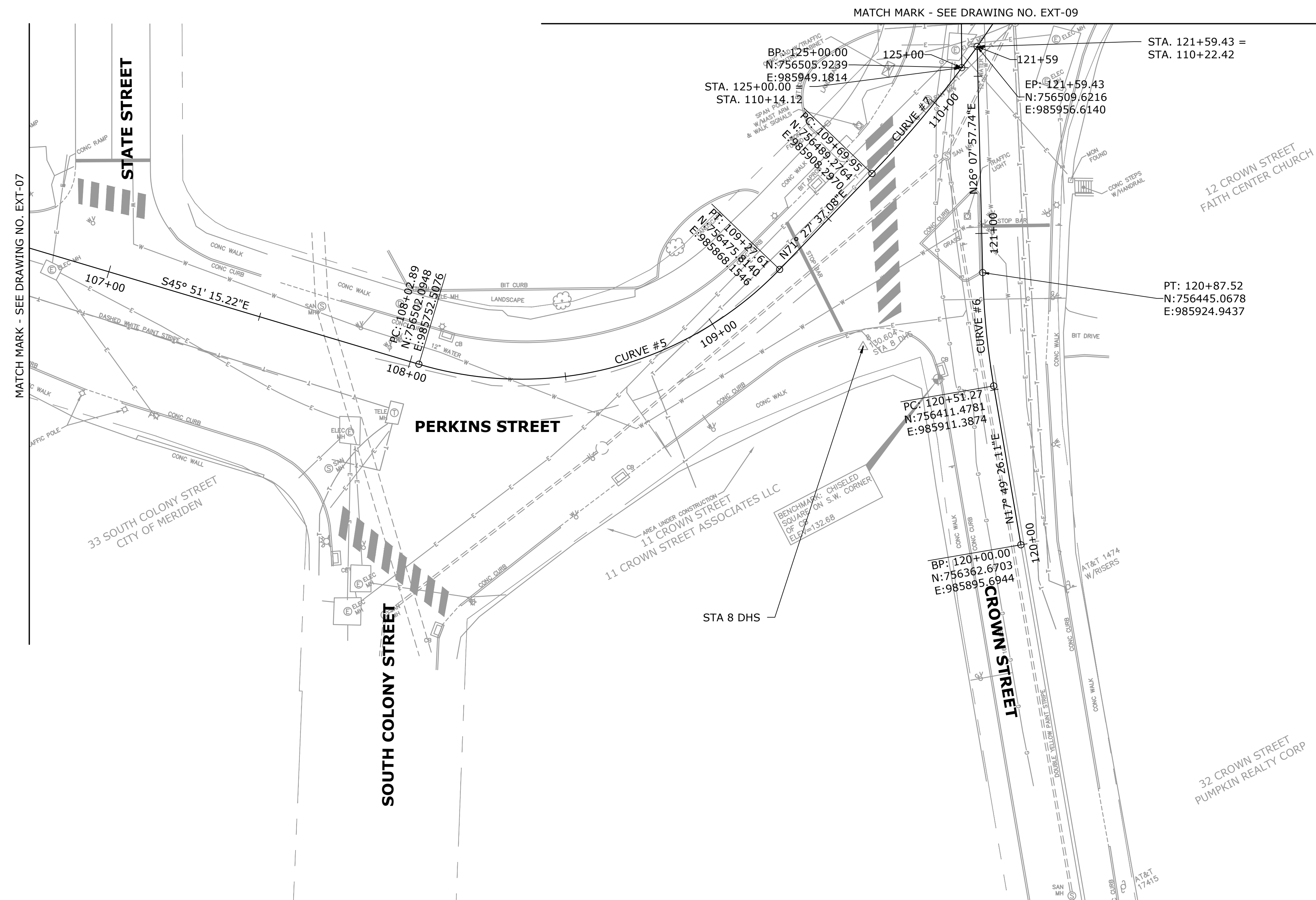


COLONY STREET  
CURVE #4

$\Delta = 37^\circ 00' 58.77''$   
 $T = 30.13'$   
 $L = 58.15'$   
 $R = 90.00'$   
 $PI N = 756672.2785$   
 $PI E = 985577.1721$   
 $PI STA = 105+60.65$

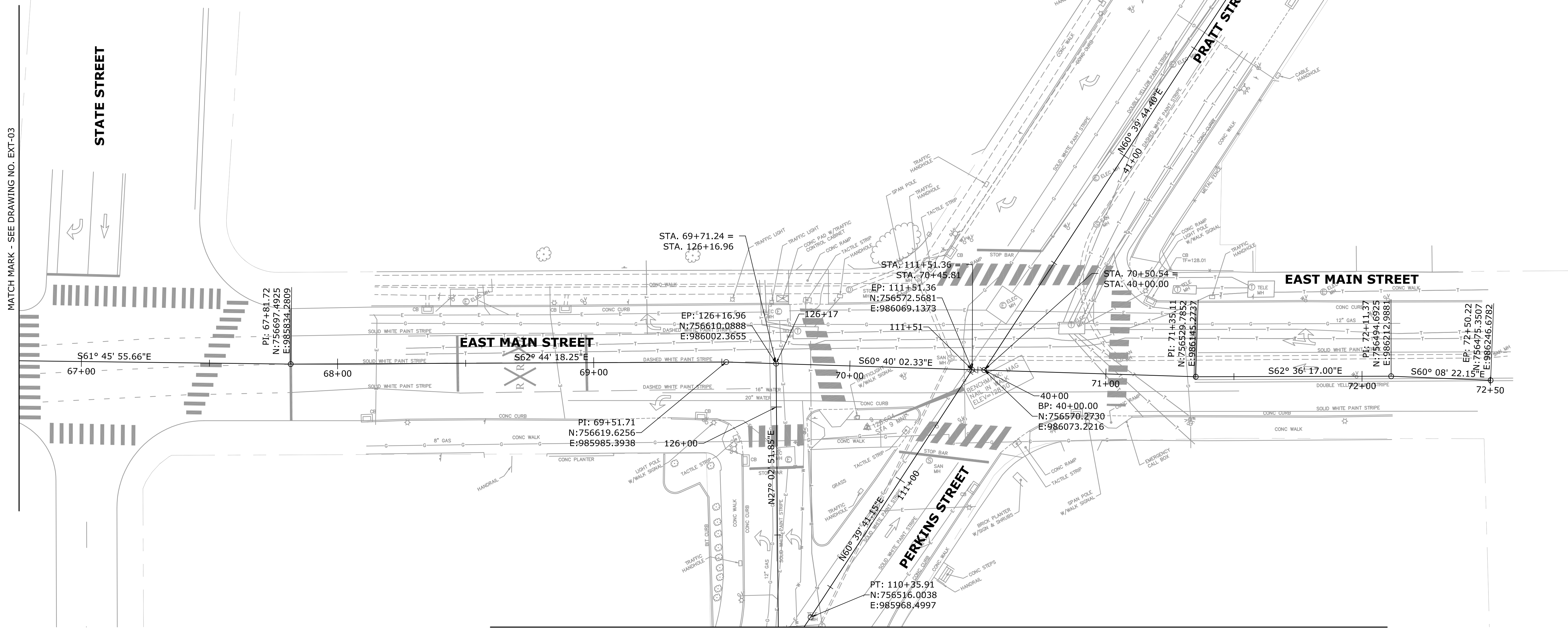
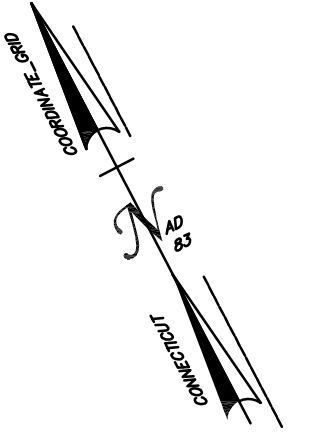
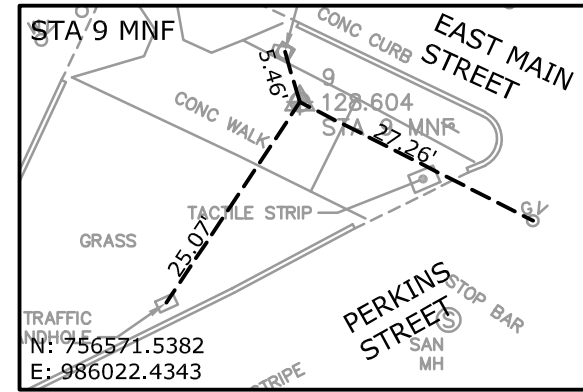


REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/16/20	DESIGNER/DRAFTER: CJS		77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM	SIGNATURE/ BLOCK: 	PROJECT TITLE: <b>CITY OF MERIDEN INTERSECTION IMPROVEMENTS</b>	TOWN: <b>MERIDEN</b>	PROJECT NO. <b>0079-0241</b>
		THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	CHECKED BY: SAH SCALE IN FEET  SCALE 1"=20'	DRAWING NO. <b>EXT-07</b>							
DRAWING TITLE: <b>EXISTING CONDITIONS PLAN</b>											SHEET NO. <b>13</b>



COLONY STREET CURVE #5	CROWN STREET CURVE #6	COLONY STREET CURVE #7
$\Delta = 62^\circ 41' 07.70''$	$\Delta = 8^\circ 18' 31.63''$	$\Delta = 10^\circ 47' 55.92''$
T = 69.43'	T = 18.16'	T = 33.08'
L = 124.72'	L = 36.25'	L = 65.97'
R = 114.00'	R = 250.00'	R = 350.00'
PI N = 756453.7381	PI N = 756428.7653	PI N = 756499.7950
PI E = 985802.3282	PI E = 985916.9456	PI E = 985939.6614
PI STA = 108+72.31	PI STA = 120+69.43	PI STA = 110+03.03

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/16/20	DESIGNER/DRAFTER: CJS	<p>77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM</p>		PROJECT TITLE:	TOWN:	PROJECT NO.
				CHECKED BY: SAH	<p><b>CITY OF MERIDEN</b> <b>INTERSECTION IMPROVEMENTS</b></p>			<p><b>MERIDEN</b></p>	<p><b>0079-0241</b></p>	
				SCALE IN FEET 0 20 40 SCALE 1"=20'						<p><b>EXISTING CONDITIONS</b> <b>PLAN</b></p>
				File name: HW_MSH_EXT.DWG						<p>SHEET NO. <b>14</b></p>



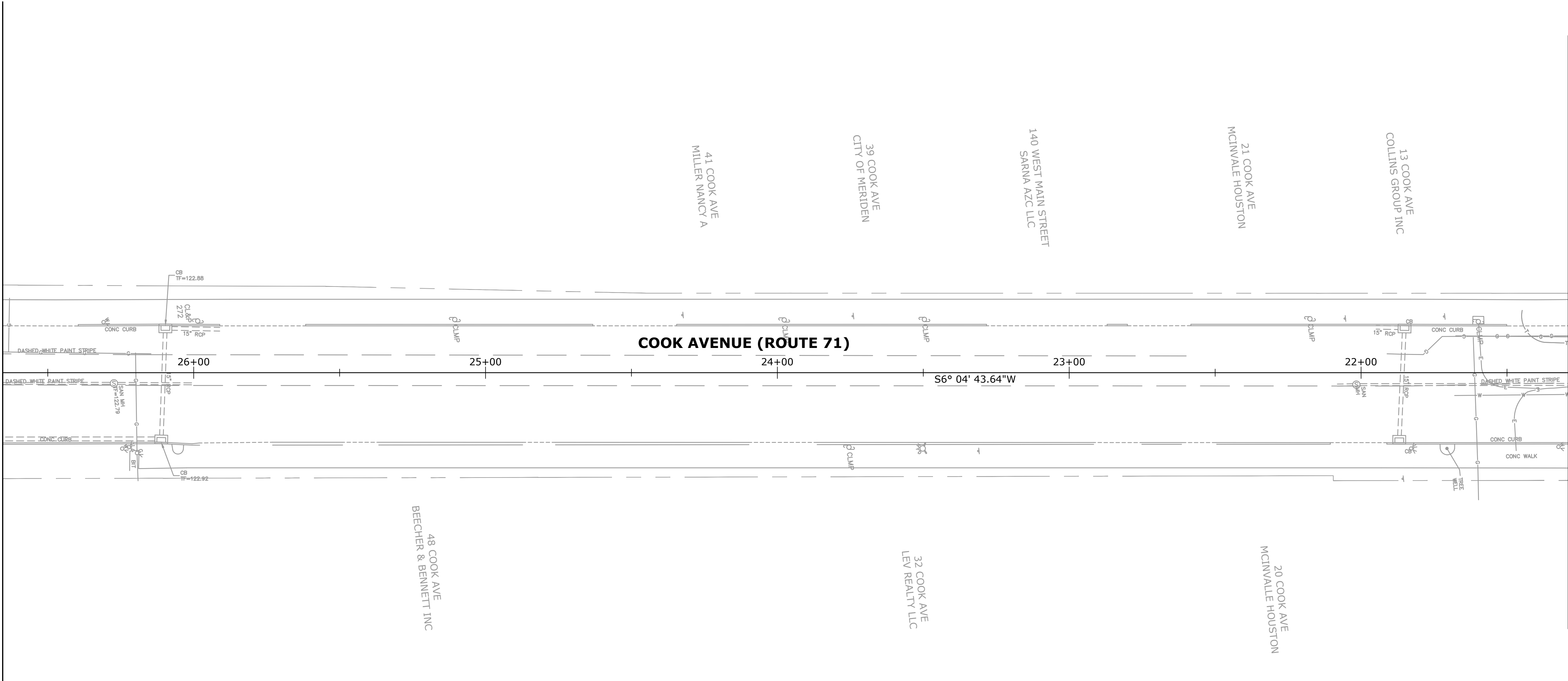
MATCH MARK - SEE DRAWING NO. EXT-03

MATCH MARK - SEE DRAWING NO. EXT-08

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: CJS CHECKED BY: SAH SCALE IN FEET SCALE 1"=20' File name: HW_MSH_EXT.DWG	77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM	SIGNATURE/ BLOCK: 	PROJECT TITLE:  <b>CITY OF MERIDEN INTERSECTION IMPROVEMENTS</b>	TOWN:  <b>MERIDEN</b>	PROJECT NO. <b>0079-0241</b> DRAWING NO. <b>EXT-09</b> SHEET NO. <b>15</b>	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/25/20				



MATCH MARK - SEE DRAWING NO. EXT-04



MATCH MARK - SEE DRAWING NO. EXT-01

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/16/20

DESIGNER/DRAFTER:  
CJS

CHECKED BY:  
SAH

SCALE IN FEET

0 20 40

SCALE 1" = 20'

77 HARTLAND STREET, SUITE 201  
EAST HARTFORD, CT 06108  
PHONE: 860-529-7615  
FAX: 860-290-7845  
WWW.CDMSMITH.COM

File name: HW\_MSH\_EXT.DWG

SIGNATURE/  
BLOCK:

PROJECT TITLE:

**CITY OF MERIDEN  
INTERSECTION IMPROVEMENTS**

TOWN:

**MERIDEN**

DRAWING TITLE:

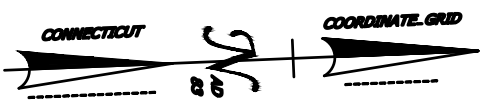
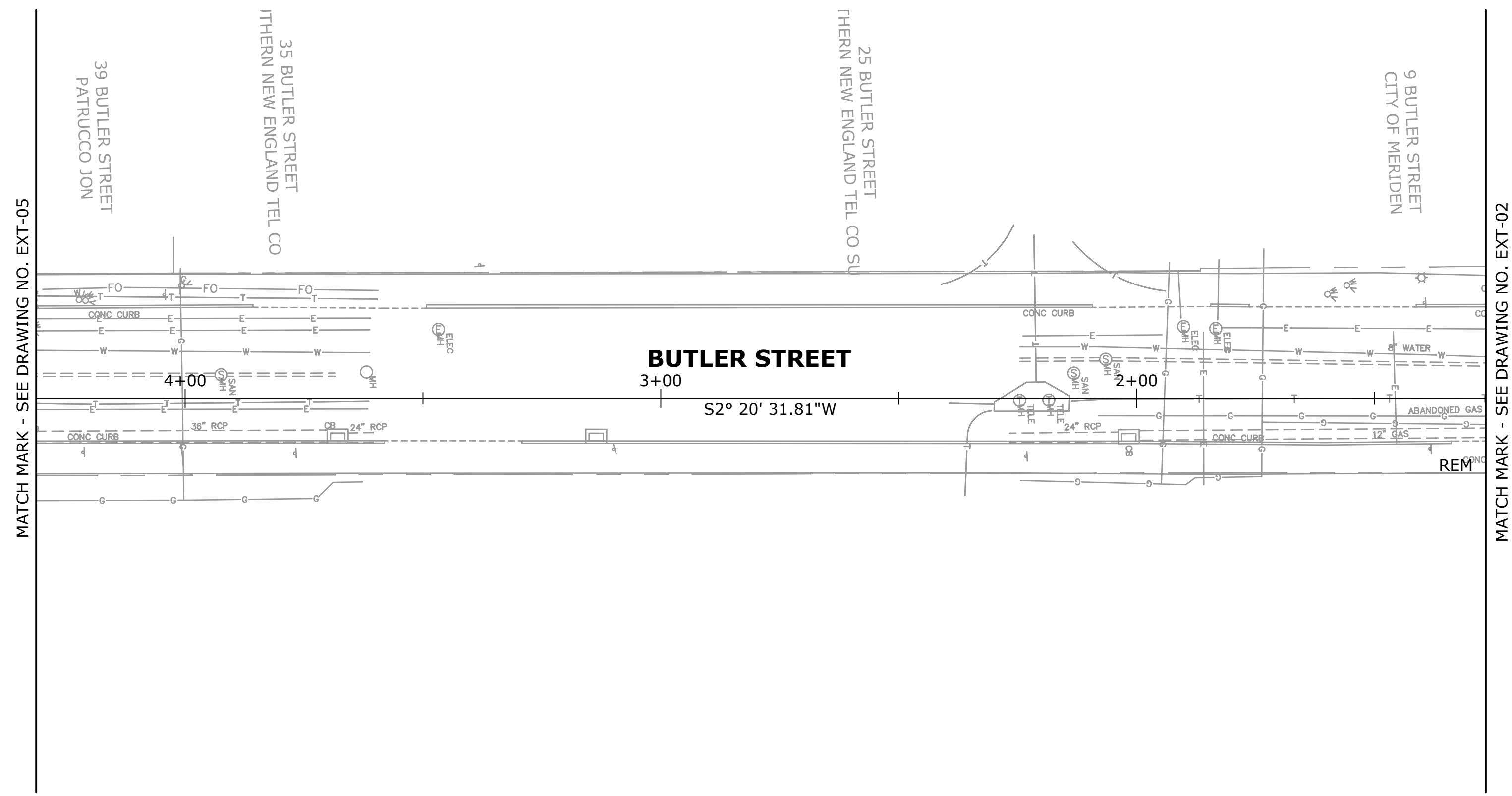
**EXISTING CONDITIONS  
PLAN**

PROJECT NO.  
**0079-0241**

DRAWING NO.  
**EXT-10**

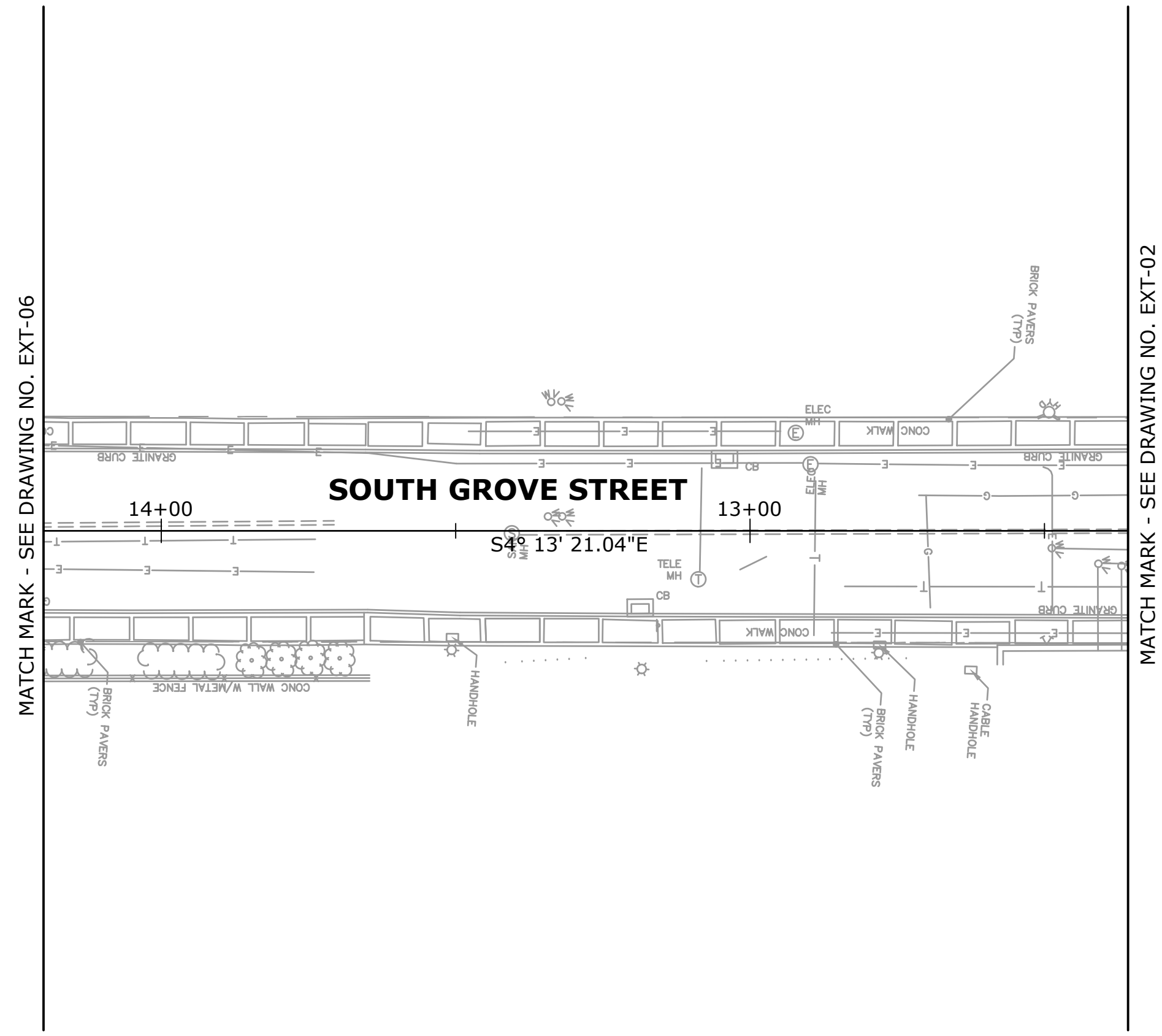
SHEET NO.  
**16**





MATCH MARK - SEE DRAWING NO. EXT-05

MATCH MARK - SEE DRAWING NO. EXT-02



MATCH MARK - SEE DRAWING NO. EXT-06

MATCH MARK - SEE DRAWING NO. EXT-02

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/16/20

DESIGNER/DRAFTER:  
CJS

CHECKED BY:  
SAH

SCALE IN FEET

SCALE 1" = 20'

77 HARTLAND STREET, SUITE 201  
EAST HARTFORD, CT 06108  
PHONE: 860-529-7615  
FAX: 860-290-7845  
WWW.CDMSMITH.COM

File name: HW\_MSH\_EXT.DWG

SIGNATURE/  
BLOCK:

PROJECT TITLE:

**CITY OF MERIDEN  
INTERSECTION IMPROVEMENTS**

TOWN:

**MERIDEN**

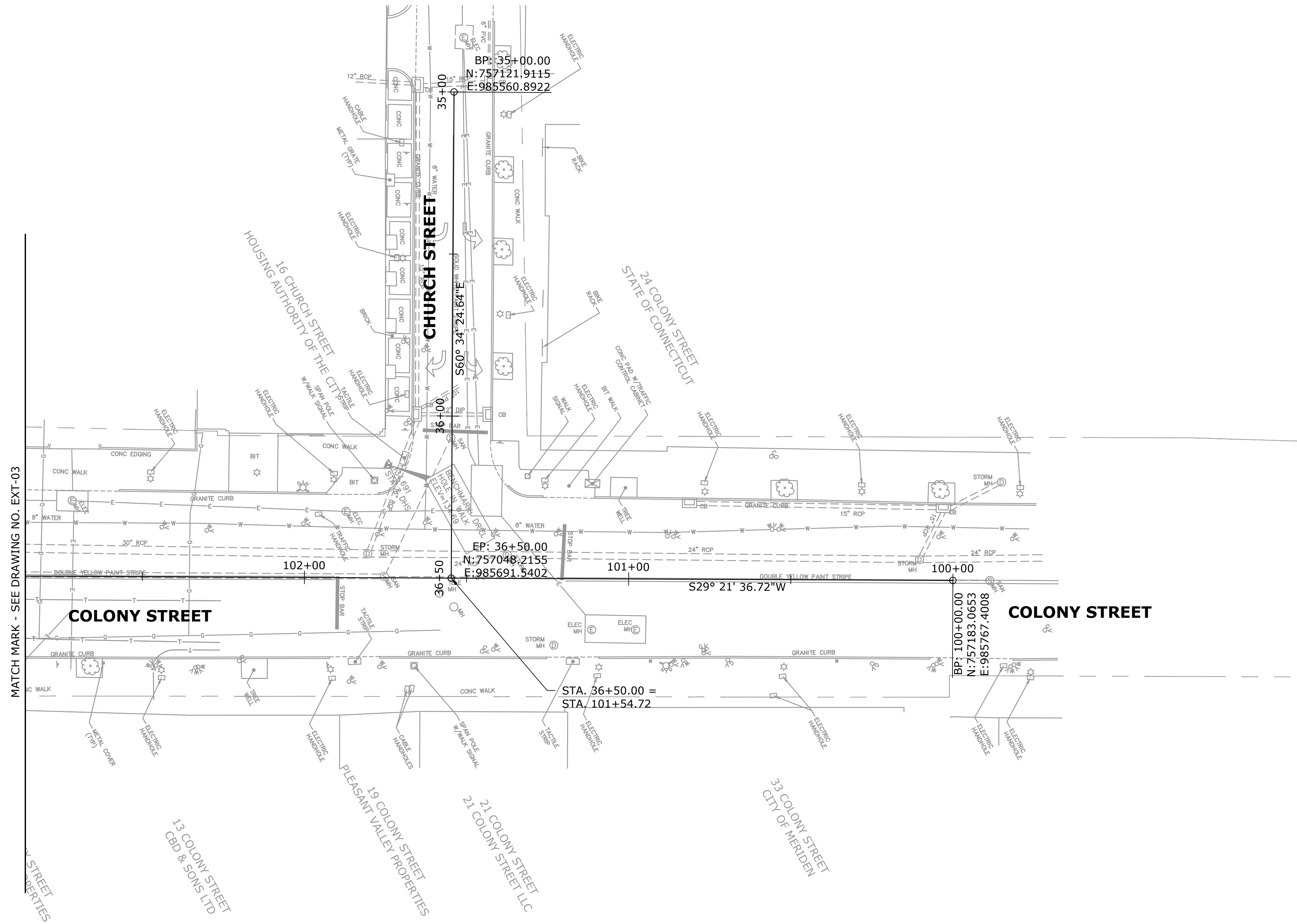
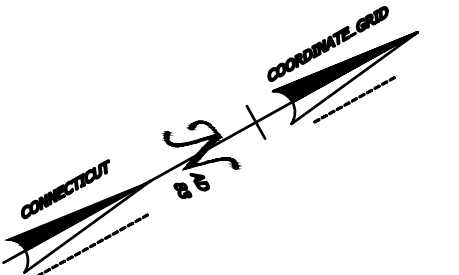
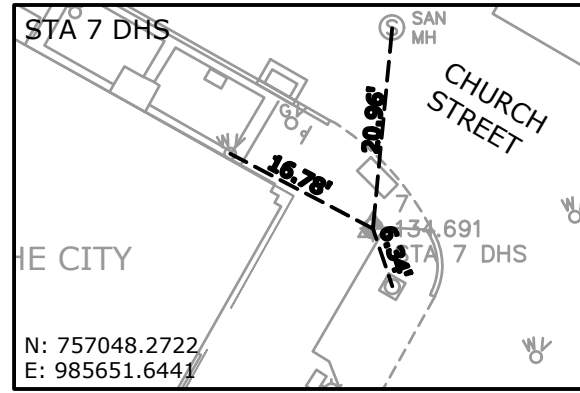
DRAWING TITLE:

**EXISTING CONDITIONS  
PLAN**

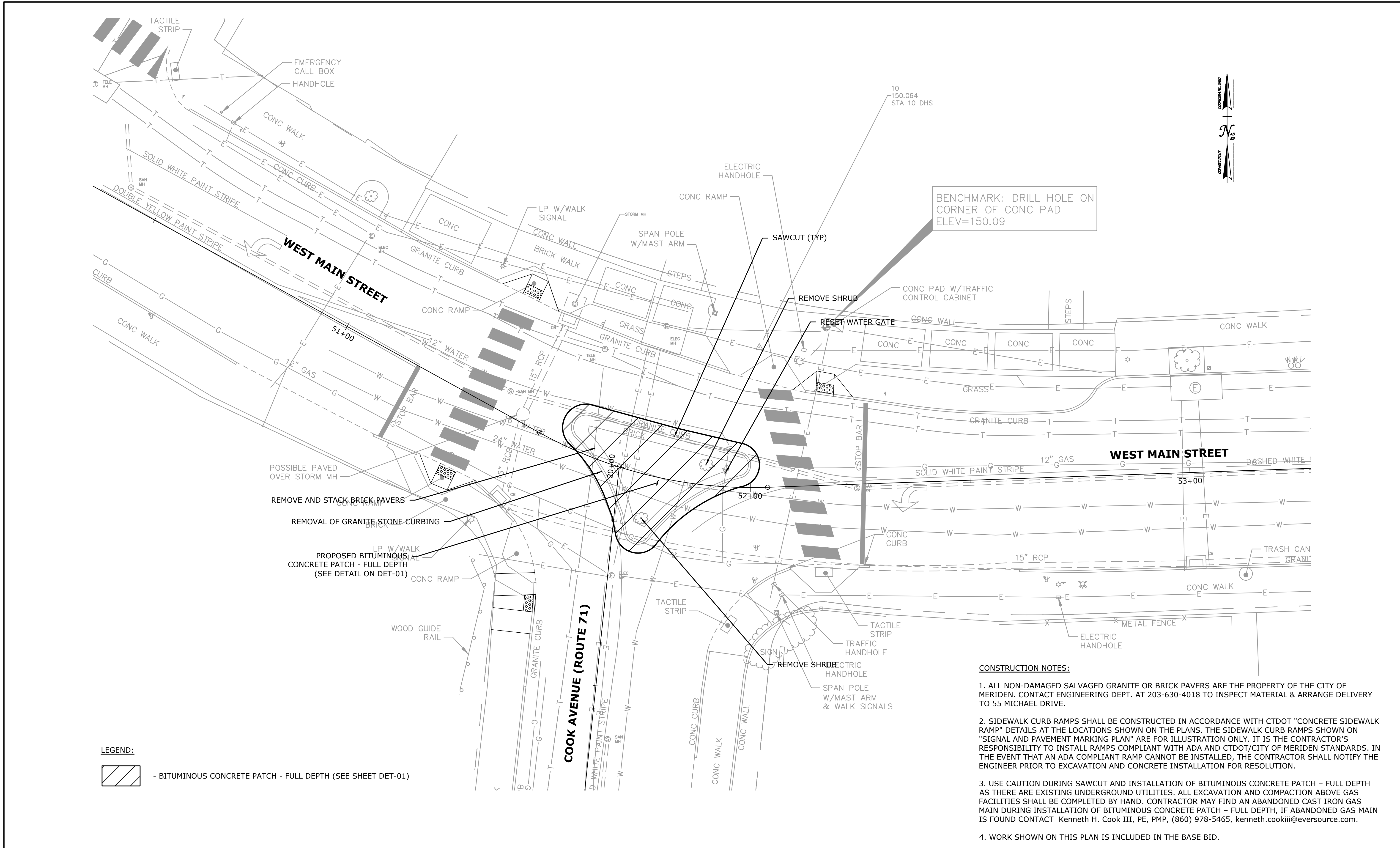
PROJECT NO.  
**0079-0241**

DRAWING NO.  
**EXT-11**

SHEET NO.  
**17**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/16/20	DESIGNER/DRAFTER: CJS		77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM	SIGNATURE/ BLOCK:		PROJECT TITLE:  <b>CITY OF MERIDEN INTERSECTION IMPROVEMENTS</b>	TOWN:  <b>MERIDEN</b>	PROJECT NO. <b>0079-0241</b>
					CHECKED BY: SAH							DRAWING NO. <b>EXT-12</b>
					SCALE IN FEET 0 20 40 SCALE 1"=20'	File name: HW_MSH_EXT.DWG				DRAWING TITLE: <b>EXISTING CONDITIONS PLAN</b>	SHEET NO. <b>18</b>	



**LEGEND:**

 - BITUMINOUS CONCRETE PATCH - FULL DEPTH (SEE SHEET DET-01)

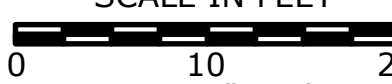
**CONSTRUCTION NOTES:**

1. ALL NON-DAMAGED SALVAGED GRANITE OR BRICK PAVERS ARE THE PROPERTY OF THE CITY OF MERIDEN. CONTACT ENGINEERING DEPT. AT 203-630-4018 TO INSPECT MATERIAL & ARRANGE DELIVERY TO 55 MICHAEL DRIVE.
2. SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CTDOT "CONCRETE SIDEWALK RAMP" DETAILS AT THE LOCATIONS SHOWN ON THE PLANS. THE SIDEWALK CURB RAMPS SHOWN ON "SIGNAL AND PAVEMENT MARKING PLAN" ARE FOR ILLUSTRATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL RAMPS COMPLIANT WITH ADA AND CTDOT/CITY OF MERIDEN STANDARDS. IN THE EVENT THAT AN ADA COMPLIANT RAMP CANNOT BE INSTALLED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO EXCAVATION AND CONCRETE INSTALLATION FOR RESOLUTION.
3. USE CAUTION DURING SAWCUT AND INSTALLATION OF BITUMINOUS CONCRETE PATCH - FULL DEPTH AS THERE ARE EXISTING UNDERGROUND UTILITIES. ALL EXCAVATION AND COMPACTION ABOVE GAS FACILITIES SHALL BE COMPLETED BY HAND. CONTRACTOR MAY FIND AN ABANDONED CAST IRON GAS MAIN DURING INSTALLATION OF BITUMINOUS CONCRETE PATCH - FULL DEPTH, IF ABANDONED GAS MAIN IS FOUND CONTACT Kenneth H. Cook III, PE, PMP, (860) 978-5465, kenneth.cookiii@eversource.com.
4. WORK SHOWN ON THIS PLAN IS INCLUDED IN THE BASE BID.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/25/20

DESIGNER/DRAFTER: CJS  
 CHECKED BY: SAH  
 SCALE IN FEET  
  
 SCALE 1"=10'

**CDM Smith**  
 77 HARTLAND STREET, SUITE 201  
 EAST HARTFORD, CT 06108  
 PHONE: 860-529-7615  
 FAX: 860-290-7845  
 WWW.CDMSMITH.COM

SIGNATURE/BLOCK:  


PROJECT TITLE:  
**CITY OF MERIDEN  
 INTERSECTION IMPROVEMENTS**

TOWN:  
**MERIDEN**

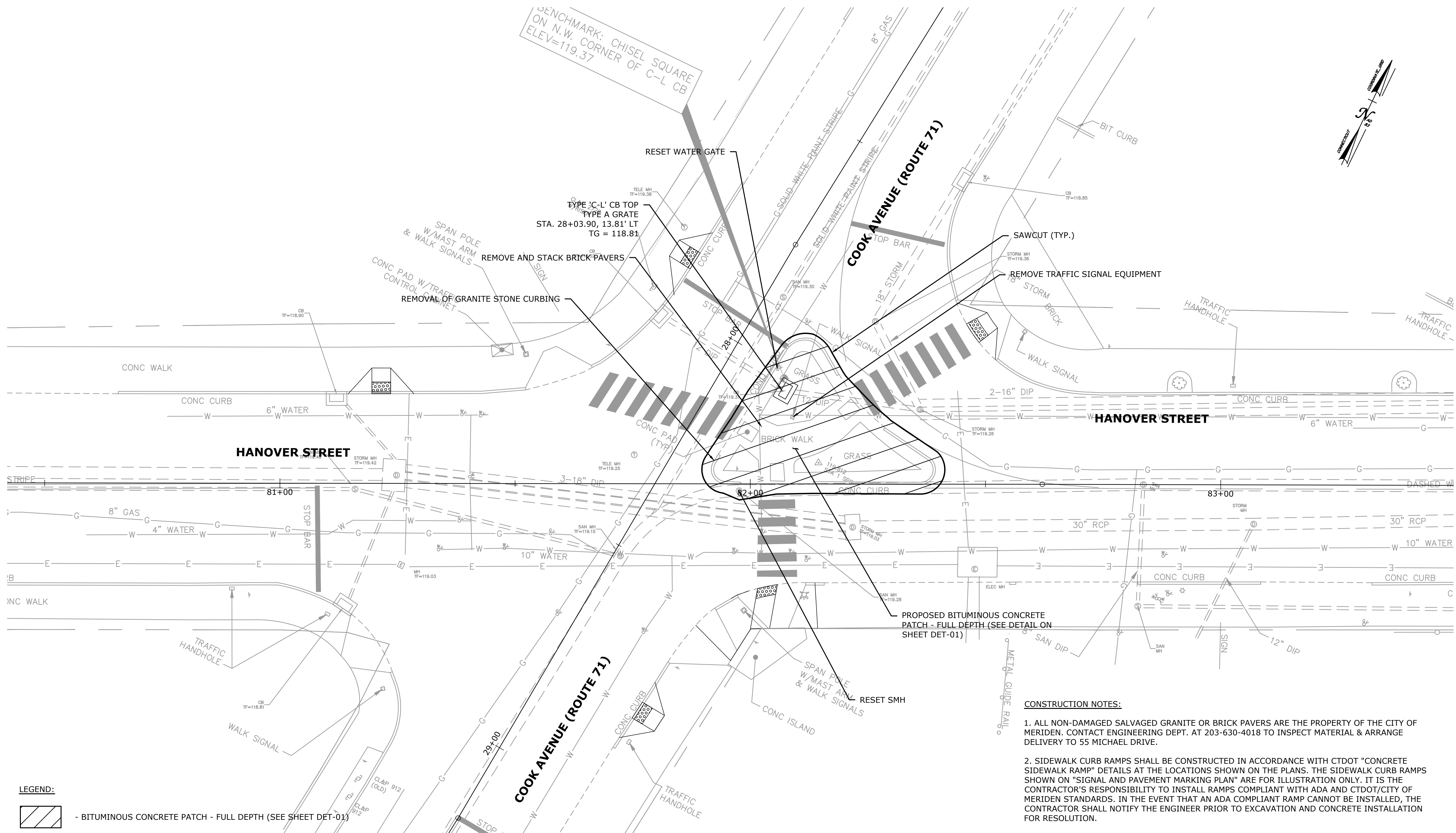
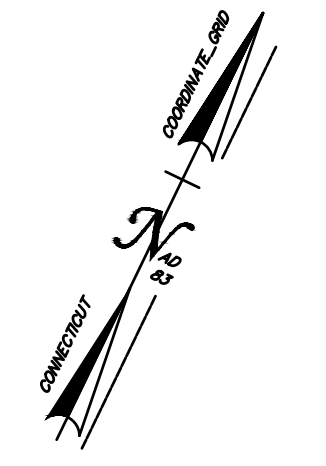
DRAWING TITLE:  
**CONSTRUCTION PLAN**

PROJECT NO.  
**0079-0241**

DRAWING NO.  
**CON-01**

SHEET NO.  
**19**

BENCHMARK: CHISEL SQUARE  
ON N.W. CORNER OF C-L CB  
ELEV=119.37

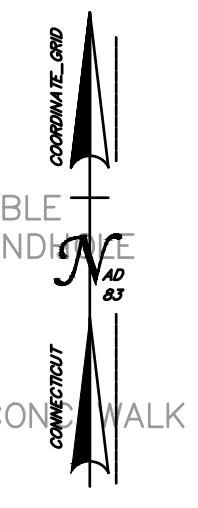
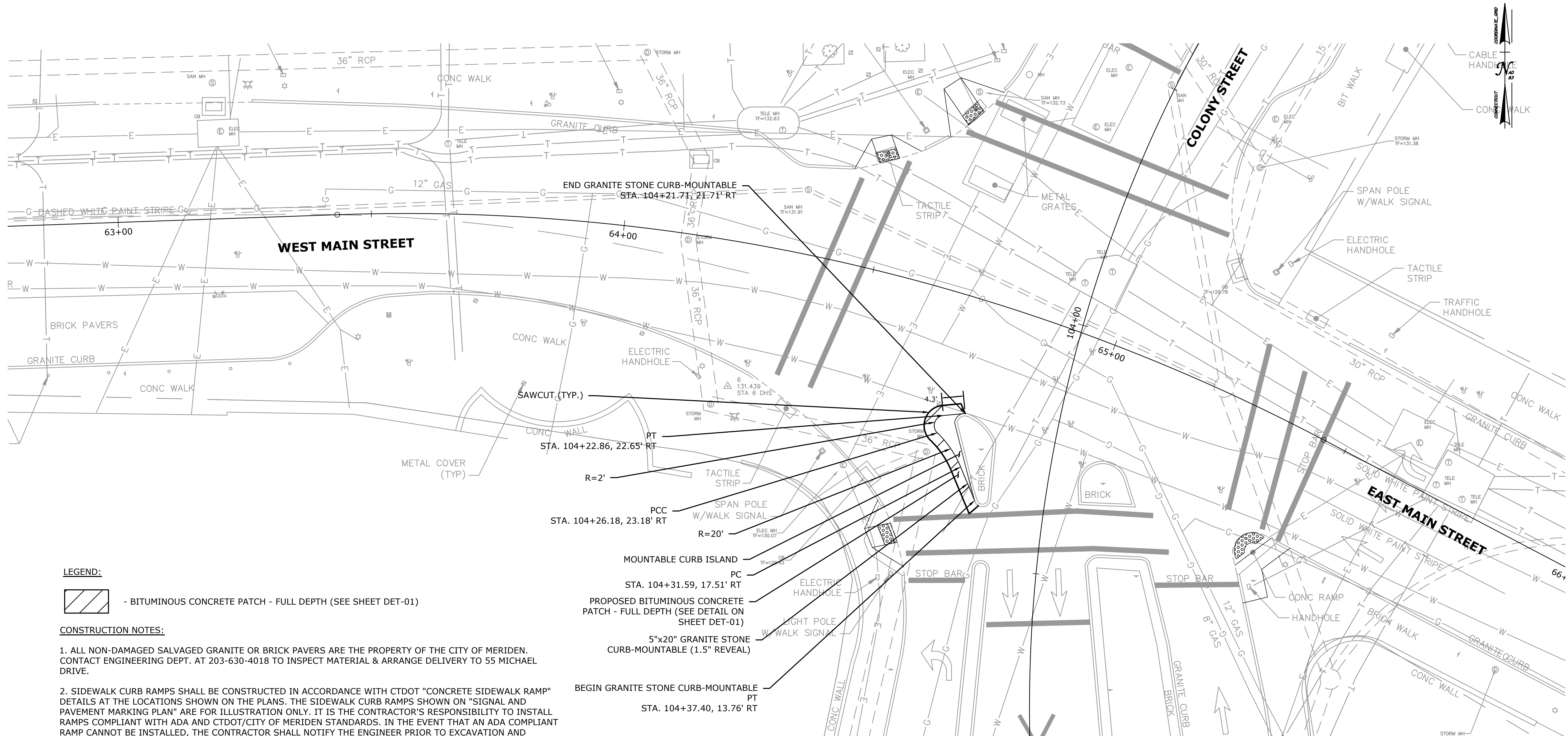


**LEGEND:**  
 - BITUMINOUS CONCRETE PATCH - FULL DEPTH (SEE SHEET DET-01)

- CONSTRUCTION NOTES:**
1. ALL NON-DAMAGED SALVAGED GRANITE OR BRICK PAVERS ARE THE PROPERTY OF THE CITY OF MERIDEN. CONTACT ENGINEERING DEPT. AT 203-630-4018 TO INSPECT MATERIAL & ARRANGE DELIVERY TO 55 MICHAEL DRIVE.
  2. SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CTDOT "CONCRETE SIDEWALK RAMP" DETAILS AT THE LOCATIONS SHOWN ON THE PLANS. THE SIDEWALK CURB RAMPS SHOWN ON "SIGNAL AND PAVEMENT MARKING PLAN" ARE FOR ILLUSTRATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL RAMPS COMPLIANT WITH ADA AND CTDOT/CITY OF MERIDEN STANDARDS. IN THE EVENT THAT AN ADA COMPLIANT RAMP CANNOT BE INSTALLED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO EXCAVATION AND CONCRETE INSTALLATION FOR RESOLUTION.
  3. USE CAUTION DURING SAWCUT AND INSTALLATION OF BITUMINOUS CONCRETE PATCH - FULL DEPTH AS THERE ARE EXISTING SHALLOW UNDERGROUND UTILITIES. ADJUST SAWCUT TO ONLY 1 FOOT FROM EXISTING NORTHERN CURB TO AVOID GAS GATE.
  4. WORK SHOWN ON THIS PLAN IS INCLUDED UNDER THE BASE BID.

DESIGNER/DRAFTER: CJS CHECKED BY: SAH SCALE IN FEET  SCALE 1"=10'		 77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM		SIGNATURE/BLOCK: 		PROJECT TITLE: <b>CITY OF MERIDEN          INTERSECTION IMPROVEMENTS</b>		TOWN: <b>MERIDEN</b> DRAWING TITLE: <b>CONSTRUCTION PLAN</b>		PROJECT NO. <b>0079-0241</b> DRAWING NO. <b>CON-02</b> SHEET NO. <b>20</b>	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/25/20							

File name: HW\_MSH\_CON.DWG



**LEGEND:**

- BITUMINOUS CONCRETE PATCH - FULL DEPTH (SEE SHEET DET-01)

**CONSTRUCTION NOTES:**

1. ALL NON-DAMAGED SALVAGED GRANITE OR BRICK PAVERS ARE THE PROPERTY OF THE CITY OF MERIDEN. CONTACT ENGINEERING DEPT. AT 203-630-4018 TO INSPECT MATERIAL & ARRANGE DELIVERY TO 55 MICHAEL DRIVE.
2. SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CTDOT "CONCRETE SIDEWALK RAMP" DETAILS AT THE LOCATIONS SHOWN ON THE PLANS. THE SIDEWALK CURB RAMPS SHOWN ON "SIGNAL AND PAVEMENT MARKING PLAN" ARE FOR ILLUSTRATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL RAMPS COMPLIANT WITH ADA AND CTDOT/CITY OF MERIDEN STANDARDS. IN THE EVENT THAT AN ADA COMPLIANT RAMP CANNOT BE INSTALLED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO EXCAVATION AND CONCRETE INSTALLATION FOR RESOLUTION.
3. USE CAUTION DURING SAWCUT AND INSTALLATION OF MOUNTABLE CURB ISLAND AS THERE ARE EXISTING UNDERGROUND UTILITIES. CONTRACTOR MAY FIND AN ABANDONED CAST IRON GAS MAIN DURING FULL DEPTH PAVEMENT RECONSTRUCTION, IF ABANDONED GAS MAIN IS FOUND CONTACT Kenneth H. Cook III, PE, PMP, (860) 978-5465, kenneth.cookiii@eversource.com.
4. WORK SHOWN ON THIS PLAN IS INCLUDED UNDER BOTH BID ALTERNATE A AND BID ALTERNATE D.

- MOUNTABLE CURB ISLAND  
STA. 104+31.59, 17.51' RT
- PC  
STA. 104+37.40, 13.76' RT
- PROPOSED BITUMINOUS CONCRETE PATCH - FULL DEPTH (SEE DETAIL ON SHEET DET-01)
- 5"x20" GRANITE STONE CURB-MOUNTABLE (1.5" REVEAL)
- BEGIN GRANITE STONE CURB-MOUNTABLE  
PT  
STA. 104+37.40, 13.76' RT
- END GRANITE STONE CURB-MOUNTABLE  
STA. 104+21.71, 21.71' RT

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/25/20

DESIGNER/DRAFTER:  
CJS

CHECKED BY:  
SAH

SCALE IN FEET

SCALE 1"=10'

77 HARTLAND STREET, SUITE 201  
EAST HARTFORD, CT 06108  
PHONE: 860-529-7615  
FAX: 860-290-7845  
WWW.CDMSMITH.COM

File name: HW\_MSH\_CON.DWG

SIGNATURE/  
BLOCK:

PROJECT TITLE:  
**CITY OF MERIDEN  
INTERSECTION IMPROVEMENTS**

TOWN:  
**MERIDEN**

DRAWING TITLE:  
**CONSTRUCTION PLAN**

PROJECT NO.  
**0079-0241**

DRAWING NO.  
**CON-03**

SHEET NO.  
**21**



**PAVEMENT MARKING & SIGNING LEGEND**

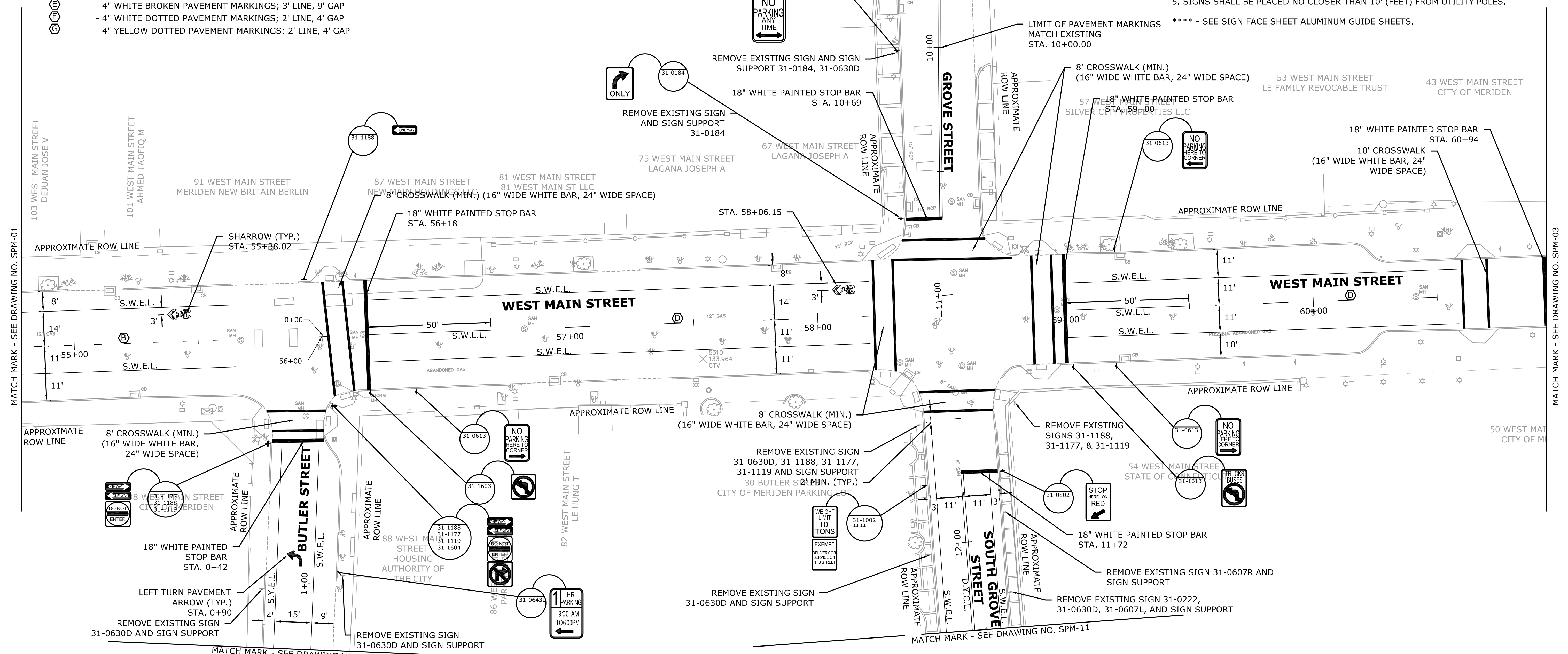
- EXISTING GROUND MOUNTED SIGN
- PROPOSED SIGN (GROUND MOUNTED)
- PROPOSED SIGNS BY CTDOT SIGN NUMBER
- S.W.E.L. - SINGLE WHITE EDGE LINE - 4" WHITE PAVEMENT MARKINGS
- S.Y.E.L. - SINGLE YELLOW EDGE LINE - 4" YELLOW PAVEMENT MARKINGS
- D.Y.C.L. - DOUBLE YELLOW CENTER LINE - 4" YELLOW PAVEMENT MARKINGS
- S.W.L.L. - SINGLE WHITE LANE LINE - 4" WHITE PAVEMENT MARKING
- (A) - 8" SOLID WHITE PAVEMENT MARKINGS
- (B) - 8" WHITE BROKEN PAVEMENT MARKING; 3' LINE, 9' GAP
- (C) - 8" WHITE DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP
- (D) - 4" WHITE BROKEN PAVEMENT MARKINGS; 10' LINE, 30' GAP
- (E) - 4" WHITE BROKEN PAVEMENT MARKINGS; 3' LINE, 9' GAP
- (F) - 4" WHITE DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP
- (G) - 4" YELLOW DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP

**PAVEMENT MARKING NOTES**

1. FINAL PAVEMENT MARKINGS ON COOK AVENUE TO BE EPOXY RESIN. ALL OTHER PAVEMENT MARKINGS TO BE PAINTED.
2. PAVEMENT MARKINGS SHALL BE INSTALLED THROUGHOUT PROJECT AREA TO LIMITS OF PAVEMENT MARKINGS AS INDICATED ON PLAN OR AS DIRECTED BY THE ENGINEER. ALL CONFLICTING PAVEMENT MARKINGS WITHIN LIMITS OF PAVEMENT MARKINGS SHALL BE REMOVED.
3. PAVEMENT MARKINGS SHALL BE INSTALLED PER TRAFFIC STANDARD SHEETS TR-1210\_04: PAVEMENT MARKINGS LINES AND SYMBOLS, TR-1210\_08: PAVEMENT MARKINGS FOR NON FREEWAYS, AND TR-1210\_09: PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RAILROAD GRADE CROSSINGS.

**SIGNING NOTES**

1. ALL EXISTING SIGNS WITHIN THE LIMITS OF WORK TO BE RETAINED UNLESS OTHERWISE NOTED ON PLAN OR DIRECTED BY THE ENGINEER.
  2. ALL EXISTING SIGNS OUTSIDE THE LIMITS OF WORK ARE TO REMAIN UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  3. SIGNS TO BE INSTALLED PER TRAFFIC STANDARD SHEETS TR-1208\_01: SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS, AND TR-1208\_02: METAL SIGN POSTS AND SIGN MOUNTING DETAILS.
  4. EXACT SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER.
  5. SIGNS SHALL BE PLACED NO CLOSER THAN 10' (FEET) FROM UTILITY POLES.
- \*\*\*\* - SEE SIGN FACE SHEET ALUMINUM GUIDE SHEETS.



MATCH MARK - SEE DRAWING NO. SPM-01

MATCH MARK - SEE DRAWING NO. SPM-03

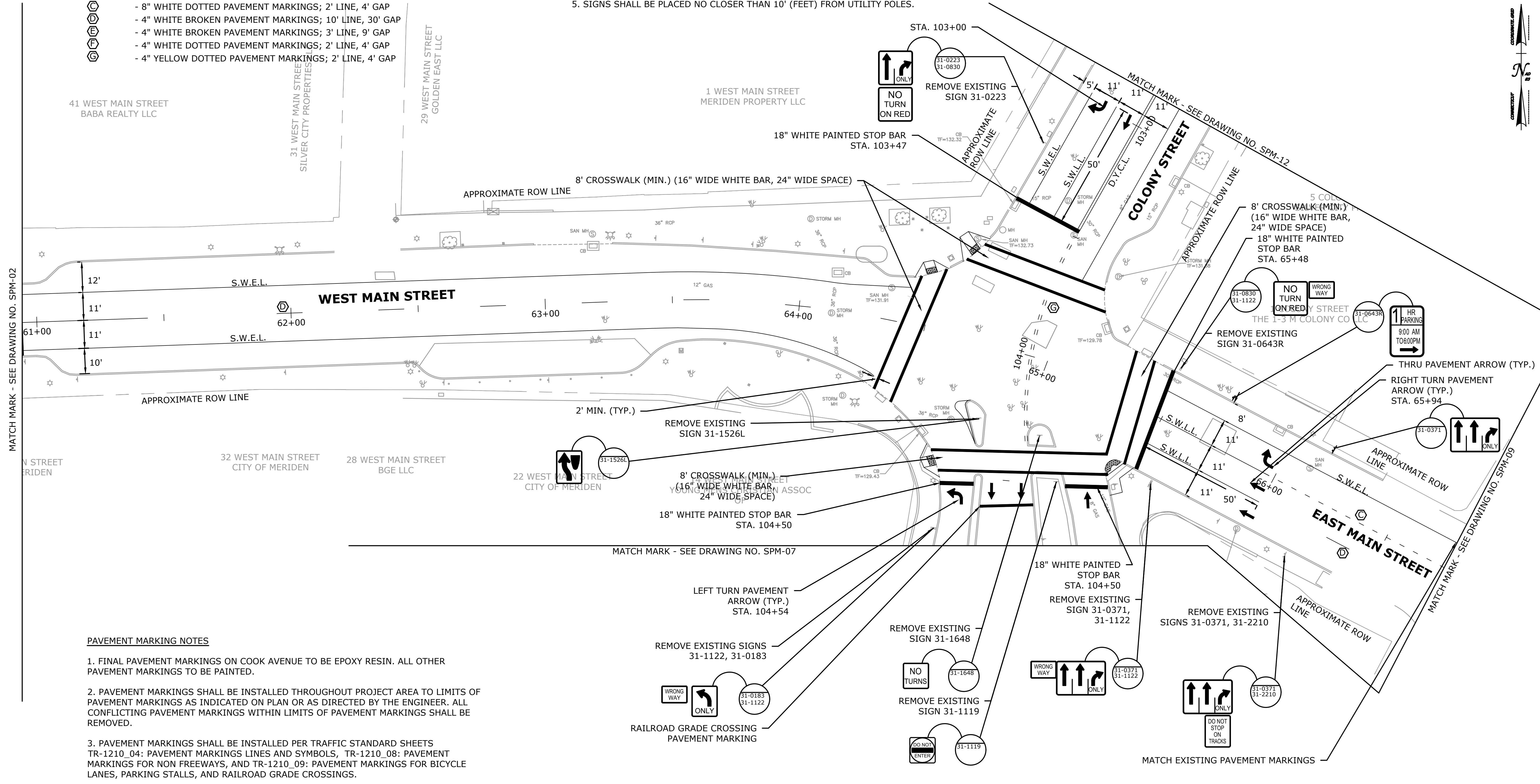
		DESIGNER/DRAFTER: CJS CHECKED BY: RRH SCALE IN FEET 0 20 40 SCALE 1" = 20'	77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM	SIGNATURE/ BLOCK: 	PROJECT TITLE: <b>CITY OF MERIDEN                  INTERSECTION IMPROVEMENTS</b>	TOWN: <b>MERIDEN</b> DRAWING TITLE: <b>SIGNING AND PAVEMENT                  MARKING PLAN</b>	PROJECT NO. <b>0079-0241</b> DRAWING NO. <b>SPM-02</b> SHEET NO. <b>23</b>	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/8/21				

**PAVEMENT MARKING & SIGNING LEGEND**

- EXISTING GROUND MOUNTED SIGN
- PROPOSED SIGN (GROUND MOUNTED)
- PROPOSED SIGNS BY CTDOT SIGN NUMBER
- S.W.E.L. - SINGLE WHITE EDGE LINE - 4" WHITE PAVEMENT MARKINGS
- S.Y.E.L. - SINGLE YELLOW EDGE LINE - 4" YELLOW PAVEMENT MARKINGS
- D.Y.C.L. - DOUBLE YELLOW CENTER LINE - 4" YELLOW PAVEMENT MARKINGS
- S.W.L.L. - SINGLE WHITE LANE LINE - 4" WHITE PAVEMENT MARKING
- (A) - 8" SOLID WHITE PAVEMENT MARKINGS
- (B) - 8" WHITE BROKEN PAVEMENT MARKING; 3' LINE, 9' GAP
- (C) - 8" WHITE DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP
- (D) - 4" WHITE BROKEN PAVEMENT MARKINGS; 10' LINE, 30' GAP
- (E) - 4" WHITE BROKEN PAVEMENT MARKINGS; 3' LINE, 9' GAP
- (F) - 4" WHITE DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP
- (G) - 4" YELLOW DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP

**SIGNING NOTES**

1. ALL EXISTING SIGNS WITHIN THE LIMITS OF WORK TO BE RETAINED UNLESS OTHERWISE NOTED ON PLAN OR DIRECTED BY THE ENGINEER.
2. ALL EXISTING SIGNS OUTSIDE THE LIMITS OF WORK ARE TO REMAIN UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. SIGNS TO BE INSTALLED PER TRAFFIC STANDARD SHEETS TR-1208\_01: SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS, AND TR-1208\_02: METAL SIGN POSTS AND SIGN MOUNTING DETAILS.
4. EXACT SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER.
5. SIGNS SHALL BE PLACED NO CLOSER THAN 10' (FEET) FROM UTILITY POLES.



**PAVEMENT MARKING NOTES**

1. FINAL PAVEMENT MARKINGS ON COOK AVENUE TO BE EPOXY RESIN. ALL OTHER PAVEMENT MARKINGS TO BE PAINTED.
2. PAVEMENT MARKINGS SHALL BE INSTALLED THROUGHOUT PROJECT AREA TO LIMITS OF PAVEMENT MARKINGS AS INDICATED ON PLAN OR AS DIRECTED BY THE ENGINEER. ALL CONFLICTING PAVEMENT MARKINGS WITHIN LIMITS OF PAVEMENT MARKINGS SHALL BE REMOVED.
3. PAVEMENT MARKINGS SHALL BE INSTALLED PER TRAFFIC STANDARD SHEETS TR-1210\_04: PAVEMENT MARKINGS LINES AND SYMBOLS, TR-1210\_08: PAVEMENT MARKINGS FOR NON FREEWAYS, AND TR-1210\_09: PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RAILROAD GRADE CROSSINGS.

DESIGNER/DRAFTER: CJS CHECKED BY: RRH SCALE IN FEET 0 20 40 SCALE 1"=20'		77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM		PROJECT TITLE: <b>CITY OF MERIDEN          INTERSECTION IMPROVEMENTS</b>		TOWN: <b>MERIDEN</b>		PROJECT NO. <b>0079-0241</b> DRAWING NO. <b>SPM-03</b> SHEET NO. <b>24</b>	
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		SIGNATURE/ BLOCK: 		DRAWING TITLE: <b>SIGNING AND PAVEMENT MARKING PLAN</b>		FILE NAME: HW_MSH-SPM.DWG		PLOTTED DATE: 11/16/20	

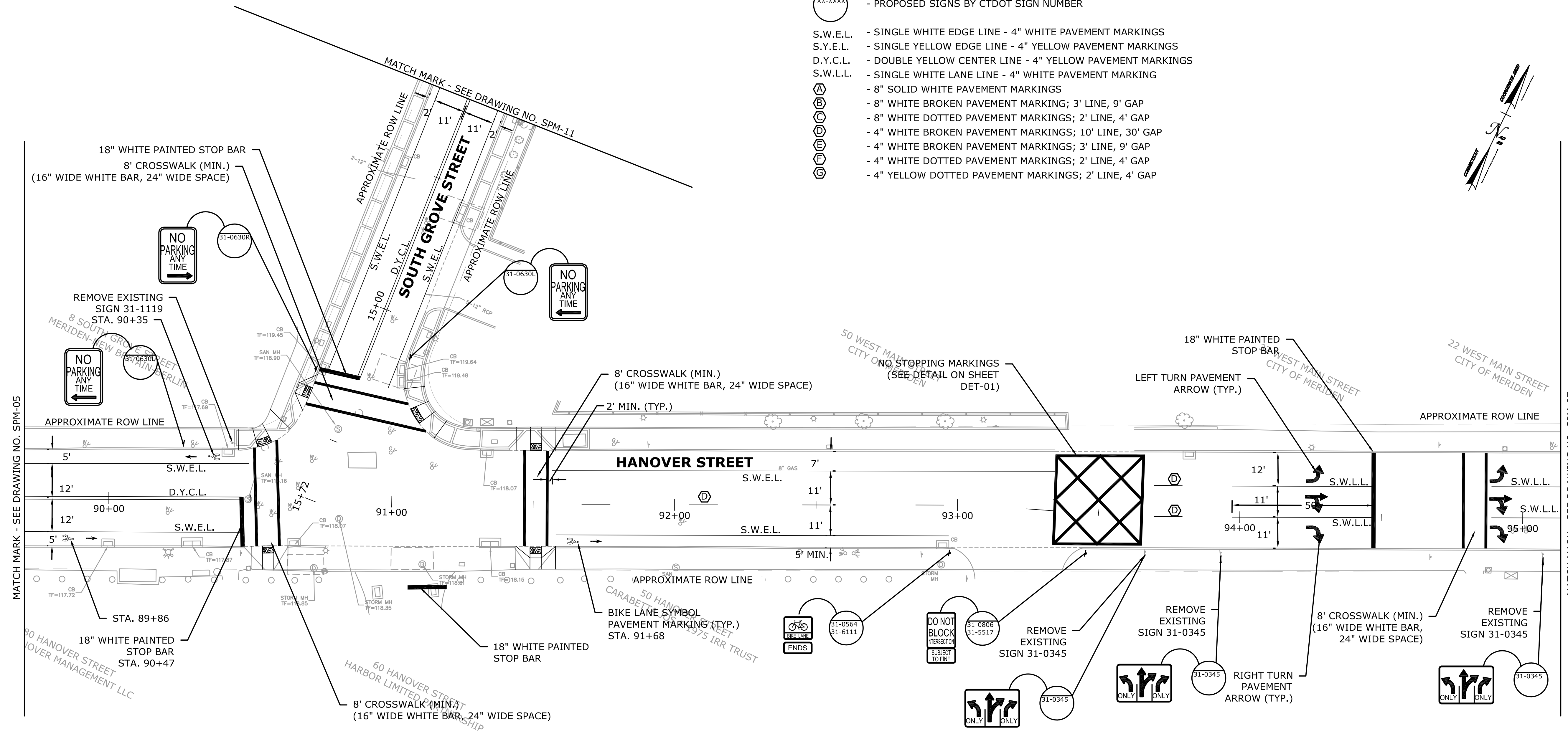
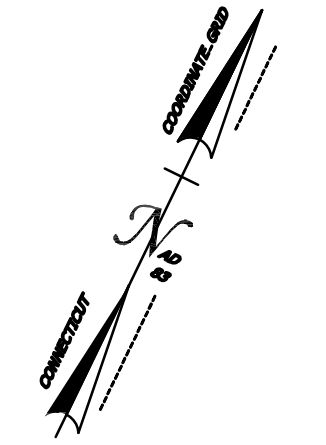






**PAVEMENT MARKING & SIGNING LEGEND**

- EXISTING GROUND MOUNTED SIGN
- PROPOSED SIGN (GROUND MOUNTED)
- PROPOSED SIGNS BY CTDOT SIGN NUMBER
- S.W.E.L. - SINGLE WHITE EDGE LINE - 4" WHITE PAVEMENT MARKINGS
- S.Y.E.L. - SINGLE YELLOW EDGE LINE - 4" YELLOW PAVEMENT MARKINGS
- D.Y.C.L. - DOUBLE YELLOW CENTER LINE - 4" YELLOW PAVEMENT MARKINGS
- S.W.L.L. - SINGLE WHITE LANE LINE - 4" WHITE PAVEMENT MARKING
- ⊖ - 8" SOLID WHITE PAVEMENT MARKINGS
- ⊕ - 8" WHITE BROKEN PAVEMENT MARKING; 3' LINE, 9' GAP
- ⊘ - 8" WHITE DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP
- ⊖ - 4" WHITE BROKEN PAVEMENT MARKINGS; 10' LINE, 30' GAP
- ⊕ - 4" WHITE BROKEN PAVEMENT MARKINGS; 3' LINE, 9' GAP
- ⊘ - 4" WHITE DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP
- ⊖ - 4" YELLOW DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP



**PAVEMENT MARKING NOTES**

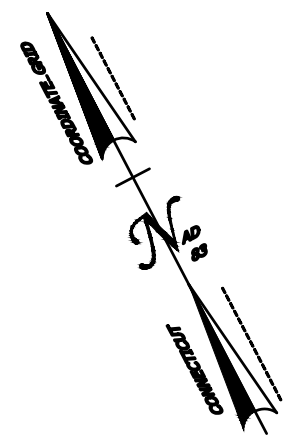
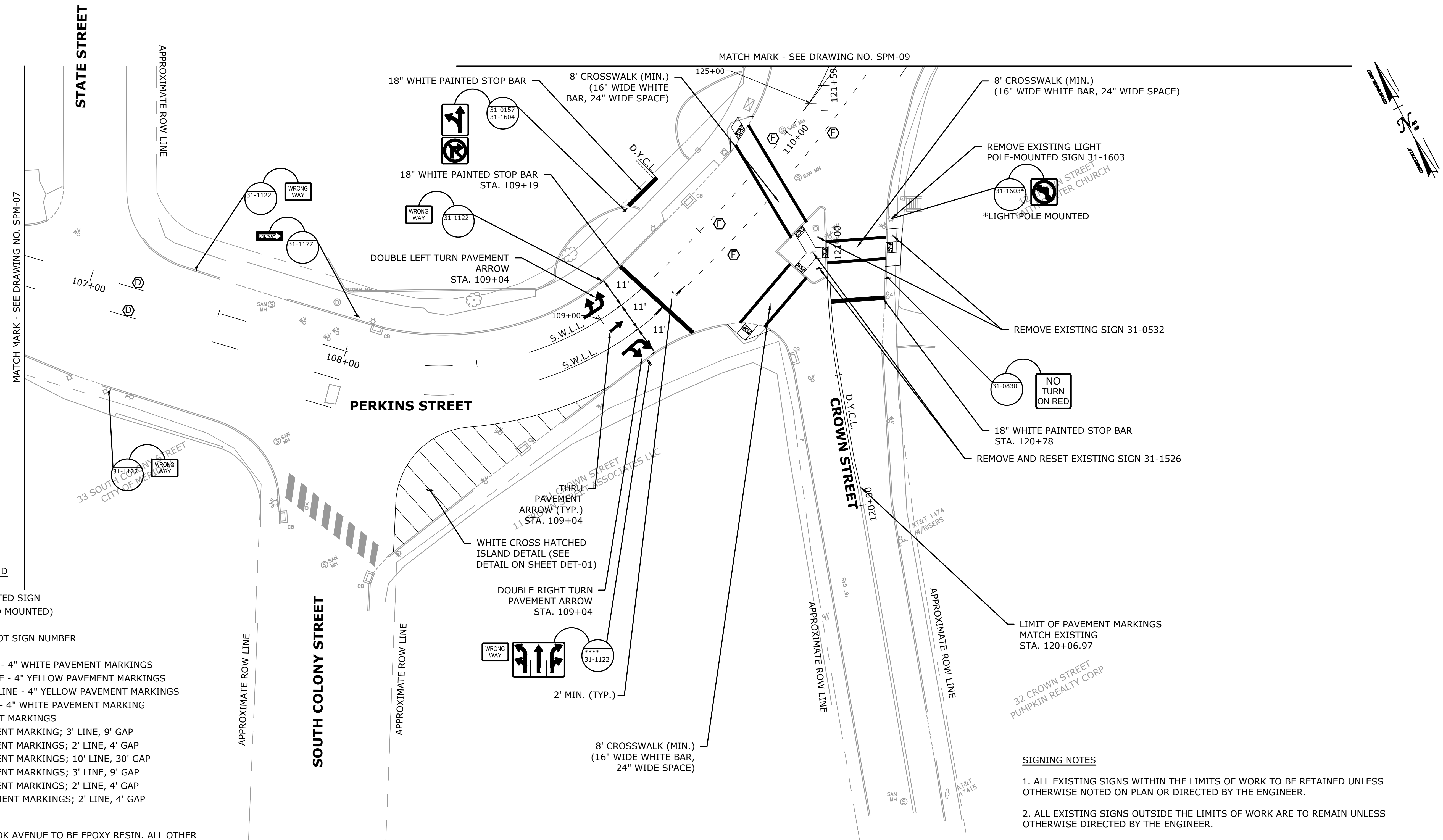
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2. PAVEMENT MARKINGS SHALL BE INSTALLED THROUGHOUT PROJECT AREA TO LIMITS OF PAVEMENT MARKINGS AS INDICATED ON PLAN OR AS DIRECTED BY THE ENGINEER. ALL CONFLICTING PAVEMENT MARKINGS WITHIN LIMITS OF PAVEMENT MARKINGS SHALL BE REMOVED.
3. PAVEMENT MARKINGS SHALL BE INSTALLED PER TRAFFIC STANDARD SHEETS TR-1210\_04: PAVEMENT MARKINGS LINES AND SYMBOLS, TR-1210\_08: PAVEMENT MARKINGS FOR NON FREEWAYS, AND TR-1210\_09: PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RAILROAD GRADE CROSSINGS.

**SIGNING NOTES**

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2. ALL EXISTING SIGNS OUTSIDE THE LIMITS OF WORK ARE TO REMAIN UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. SIGNS TO BE INSTALLED PER TRAFFIC STANDARD SHEETS TR-1208\_01: SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS, AND TR-1208\_02: METAL SIGN POSTS AND SIGN MOUNTING DETAILS.
4. EXACT SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER.
5. SIGNS SHALL BE PLACED NO CLOSER THAN 10' (FEET) FROM UTILITY POLES.

		THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: CJS CHECKED BY: RRH SCALE IN FEET SCALE 1"=20' File name: HW_MSH_SPM.DWG	 77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM	SIGNATURE/BLOCK: 	PROJECT TITLE: <b>CITY OF MERIDEN          INTERSECTION IMPROVEMENTS</b>	TOWN: <b>MERIDEN</b> DRAWING TITLE: <b>SIGNING AND PAVEMENT MARKING PLAN</b>	PROJECT NO. <b>0079-0241</b> DRAWING NO. <b>SPM-06</b> SHEET NO. <b>27</b>	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/7/21					





**PAVEMENT MARKING & SIGNING LEGEND**

- EXISTING GROUND MOUNTED SIGN
- PROPOSED SIGN (GROUND MOUNTED)
- XX-XXXX - PROPOSED SIGNS BY CTDOT SIGN NUMBER
- S.W.E.L. - SINGLE WHITE EDGE LINE - 4" WHITE PAVEMENT MARKINGS
- S.Y.E.L. - SINGLE YELLOW EDGE LINE - 4" YELLOW PAVEMENT MARKINGS
- D.Y.C.L. - DOUBLE YELLOW CENTER LINE - 4" YELLOW PAVEMENT MARKINGS
- S.W.L.L. - SINGLE WHITE LANE LINE - 4" WHITE PAVEMENT MARKING
- (A) - 8" SOLID WHITE PAVEMENT MARKINGS
- (B) - 8" WHITE BROKEN PAVEMENT MARKING; 3' LINE, 9' GAP
- (C) - 8" WHITE DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP
- (D) - 4" WHITE BROKEN PAVEMENT MARKINGS; 10' LINE, 30' GAP
- (E) - 4" WHITE BROKEN PAVEMENT MARKINGS; 3' LINE, 9' GAP
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  5. SIGNS SHALL BE PLACED NO CLOSER THAN 10' (FEET) FROM UTILITY POLES.
- \*\*\*\* - SEE SIGN FACE SHEET ALUMINUM GUIDE SHEETS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/16/20

DESIGNER/DRAFTER: CJS  
 CHECKED BY: RRH  
 SCALE IN FEET  
 0 20 40  
 SCALE 1" = 20'

**CDM Smith**  
 77 HARTLAND STREET, SUITE 201  
 EAST HARTFORD, CT 06108  
 PHONE: 860-529-7615  
 FAX: 860-290-7845  
 WWW.CDMSMITH.COM

File name: HW\_MSH-SPM.DWG

SIGNATURE/BLOCK:

PROJECT TITLE:  
**CITY OF MERIDEN  
 INTERSECTION IMPROVEMENTS**

TOWN:  
**MERIDEN**

DRAWING TITLE:  
**SIGNING AND PAVEMENT  
 MARKING PLAN**

PROJECT NO.  
**0079-0241**

DRAWING NO.  
**SPM-08**

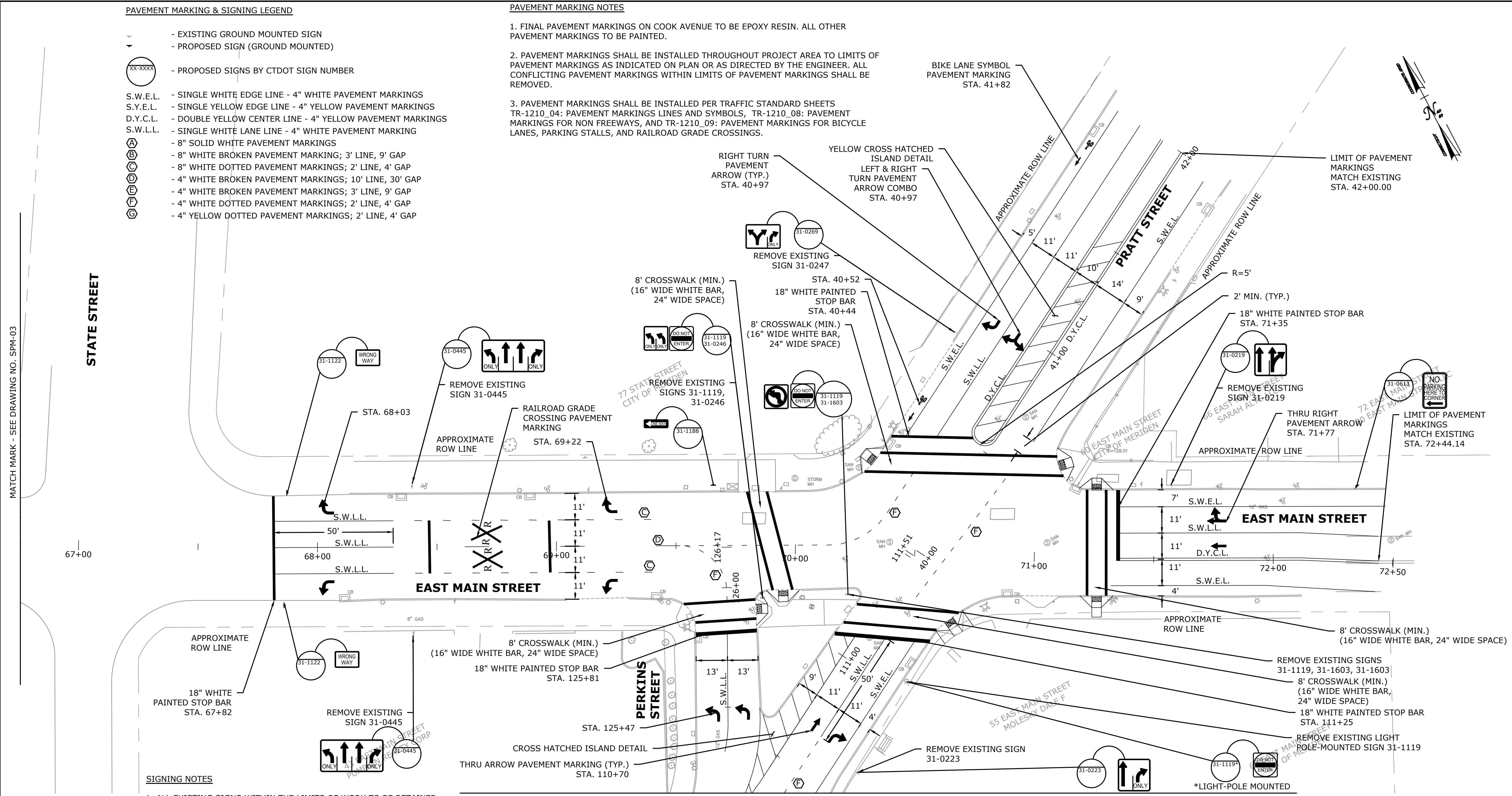
SHEET NO.  
**29**

**PAVEMENT MARKING & SIGNING LEGEND**

- EXISTING GROUND MOUNTED SIGN
- PROPOSED SIGN (GROUND MOUNTED)
- PROPOSED SIGNS BY CTDOT SIGN NUMBER
- S.W.E.L. - SINGLE WHITE EDGE LINE - 4" WHITE PAVEMENT MARKINGS
- S.Y.E.L. - SINGLE YELLOW EDGE LINE - 4" YELLOW PAVEMENT MARKINGS
- D.Y.C.L. - DOUBLE YELLOW CENTER LINE - 4" YELLOW PAVEMENT MARKINGS
- S.W.L.L. - SINGLE WHITE LANE LINE - 4" WHITE PAVEMENT MARKING
- (A) - 8" SOLID WHITE PAVEMENT MARKINGS
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- (C) - 8" WHITE DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP
- (D) - 4" WHITE BROKEN PAVEMENT MARKINGS; 10' LINE, 30' GAP
- (E) - 4" WHITE BROKEN PAVEMENT MARKINGS; 3' LINE, 9' GAP
- (F) - 4" WHITE DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP
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**PAVEMENT MARKING NOTES**

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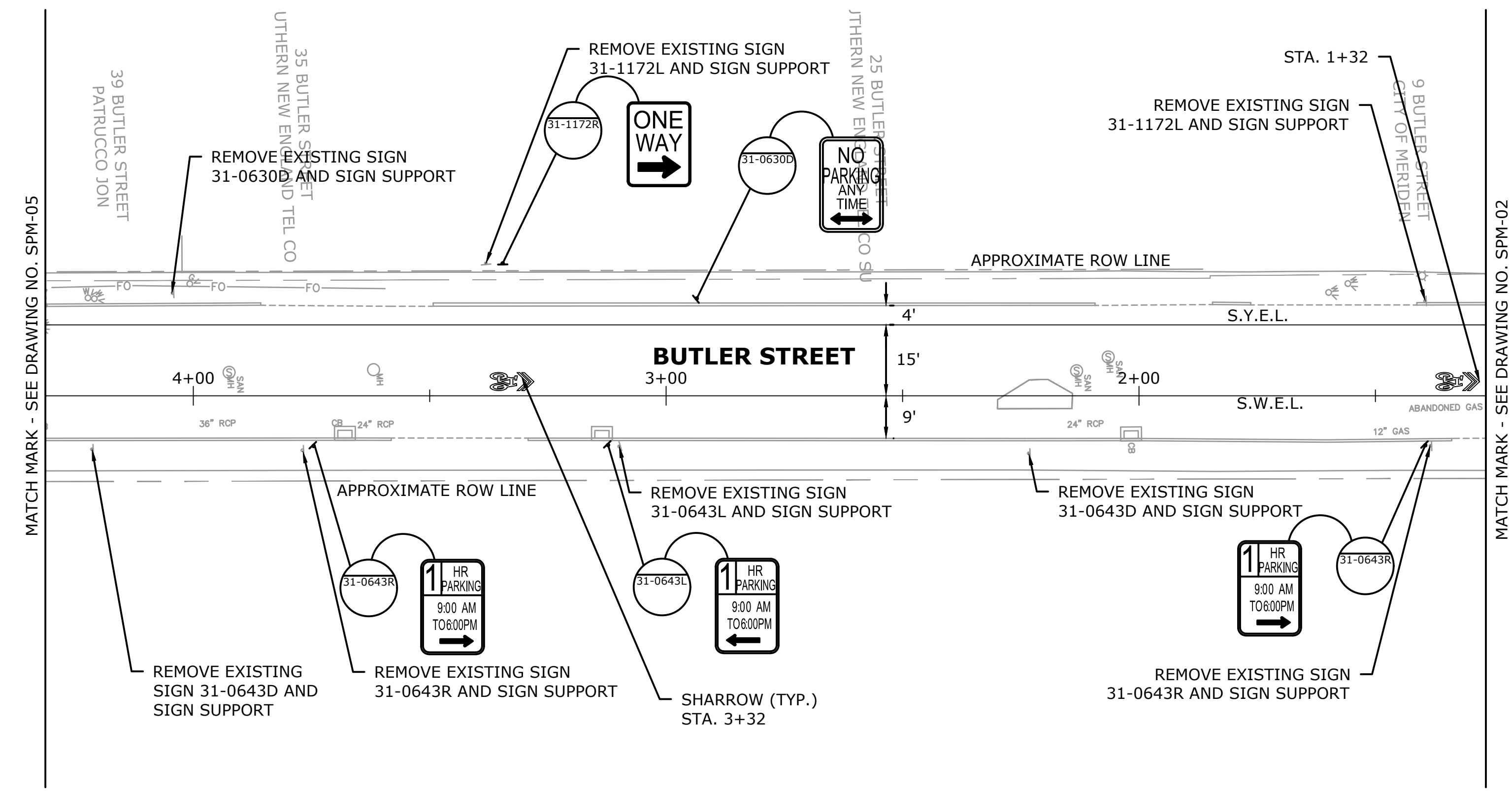


**SIGNING NOTES**

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4. EXACT SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER.
5. SIGNS SHALL BE PLACED NO CLOSER THAN 10' (FEET) FROM UTILITY POLES.

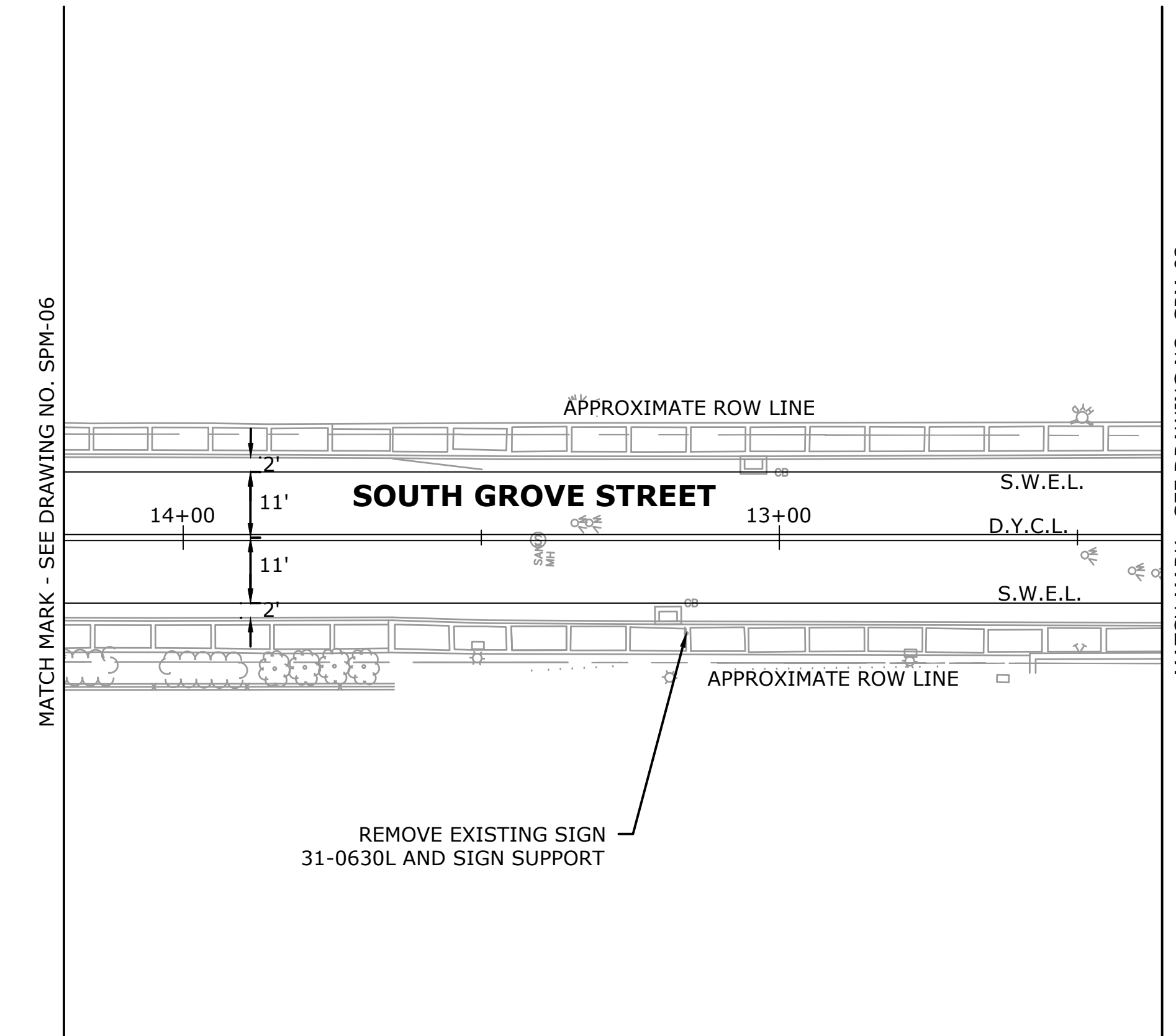
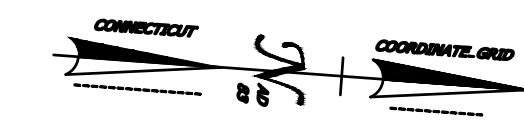
DESIGNER/DRAFTER: CJS CHECKED BY: RRH SCALE IN FEET 0 20 40 SCALE 1"=20'		77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM		SIGNATURE/BLOCK: 		PROJECT TITLE: <b>CITY OF MERIDEN          INTERSECTION IMPROVEMENTS</b>		TOWN: <b>MERIDEN</b>		PROJECT NO. <b>0079-0241</b>	
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		FILE NAME: HW_MSH-SPM.DWG		DRAWING NO. <b>SPM-09</b>		DRAWING TITLE: <b>SIGNING AND PAVEMENT MARKING PLAN</b>		SHEET NO. <b>30</b>			





MATCH MARK - SEE DRAWING NO. SPM-05

MATCH MARK - SEE DRAWING NO. SPM-02



MATCH MARK - SEE DRAWING NO. SPM-06

MATCH MARK - SEE DRAWING NO. SPM-02

**PAVEMENT MARKING & SIGNING LEGEND**

- EXISTING GROUND MOUNTED SIGN
- PROPOSED SIGN (GROUND MOUNTED)
- PROPOSED SIGNS BY CTDOT SIGN NUMBER
- S.W.E.L. - SINGLE WHITE EDGE LINE - 4" WHITE PAVEMENT MARKINGS
- S.Y.E.L. - SINGLE YELLOW EDGE LINE - 4" YELLOW PAVEMENT MARKINGS
- D.Y.C.L. - DOUBLE YELLOW CENTER LINE - 4" YELLOW PAVEMENT MARKINGS
- S.W.L.L. - SINGLE WHITE LANE LINE - 4" WHITE PAVEMENT MARKING
- (A) - 8" SOLID WHITE PAVEMENT MARKINGS
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**PAVEMENT MARKING NOTES**

1. FINAL PAVEMENT MARKINGS ON COOK AVENUE TO BE EPOXY RESIN. ALL OTHER PAVEMENT MARKINGS TO BE PAINTED.
2. PAVEMENT MARKINGS SHALL BE INSTALLED THROUGHOUT PROJECT AREA TO LIMITS OF PAVEMENT MARKINGS AS INDICATED ON PLAN OR AS DIRECTED BY THE ENGINEER. ALL CONFLICTING PAVEMENT MARKINGS WITHIN LIMITS OF PAVEMENT MARKINGS SHALL BE REMOVED.
3. PAVEMENT MARKINGS SHALL BE INSTALLED PER TRAFFIC STANDARD SHEETS TR-1210\_04: PAVEMENT MARKINGS LINES AND SYMBOLS, TR-1210\_08: PAVEMENT MARKINGS FOR NON FREEWAYS, AND TR-1210\_09: PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RAILROAD GRADE CROSSINGS.

**SIGNING NOTES**

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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DESIGNER/DRAFTER: CJS  
 CHECKED BY: RRR  
 SCALE IN FEET  
 0 20 40  
 SCALE 1"=20'

**CDM Smith**  
 77 HARTLAND STREET, SUITE 201  
 EAST HARTFORD, CT 06108  
 PHONE: 860-529-7615  
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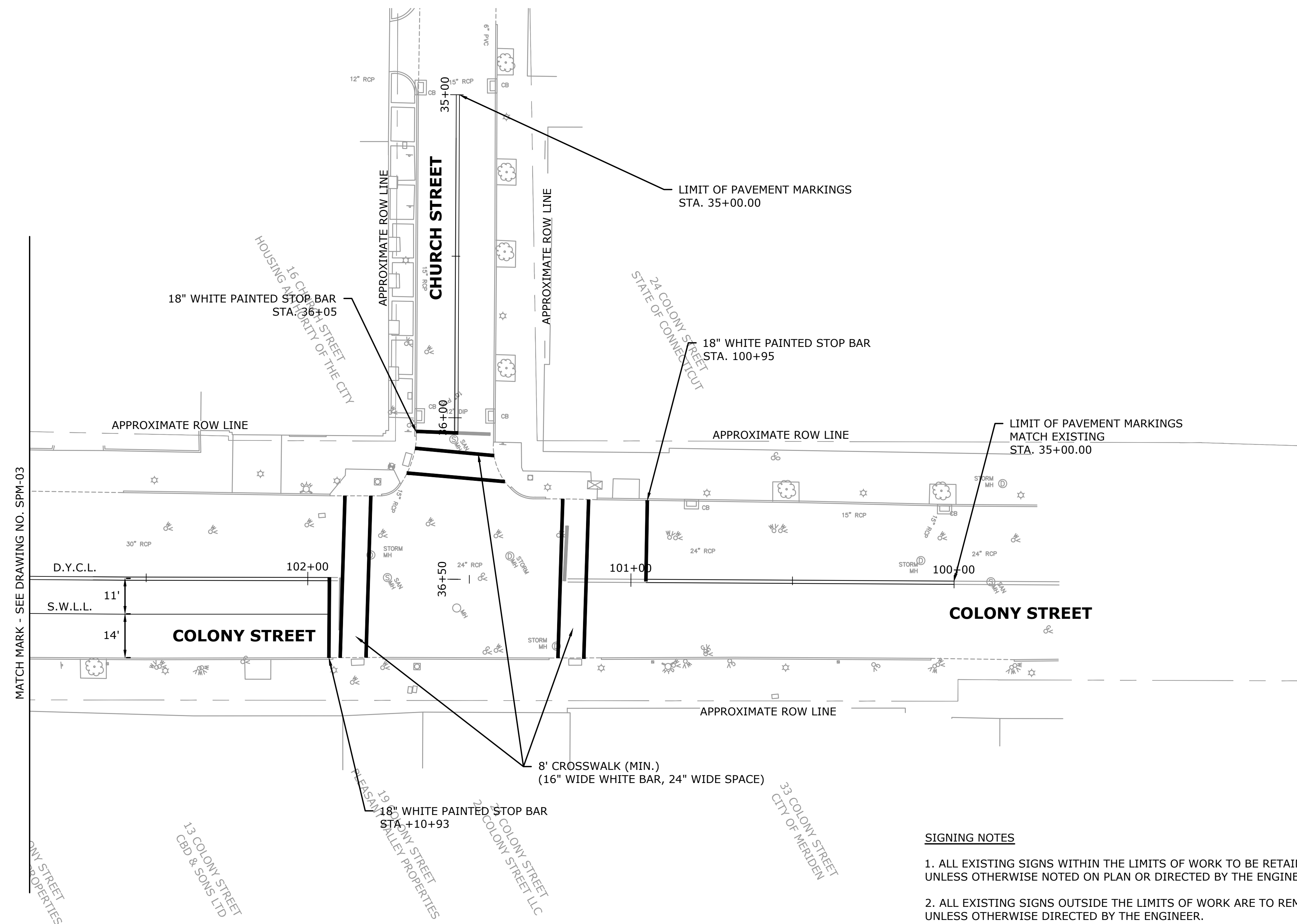
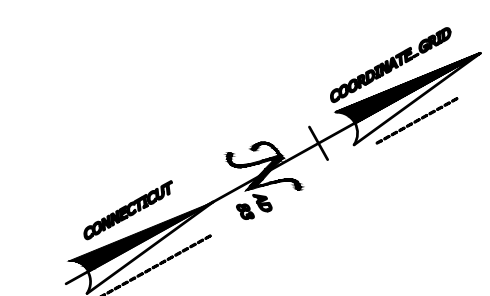
SIGNATURE/BLOCK:

PROJECT TITLE:  
**CITY OF MERIDEN  
 INTERSECTION IMPROVEMENTS**

TOWN:  
**MERIDEN**  
 DRAWING TITLE:  
**SIGNING AND PAVEMENT  
 MARKING PLAN**

PROJECT NO.  
**0079-0241**  
 DRAWING NO.  
**SPM-11**  
 SHEET NO.  
**32**





**PAVEMENT MARKING & SIGNING LEGEND**

- EXISTING GROUND MOUNTED SIGN
- PROPOSED SIGN (GROUND MOUNTED)
- ⊙ - PROPOSED SIGNS BY CTDOT SIGN NUMBER
- S.W.E.L. - SINGLE WHITE EDGE LINE - 4" WHITE PAVEMENT MARKINGS
- S.Y.E.L. - SINGLE YELLOW EDGE LINE - 4" YELLOW PAVEMENT MARKINGS
- D.Y.C.L. - DOUBLE YELLOW CENTER LINE - 4" YELLOW PAVEMENT MARKINGS
- S.W.L.L. - SINGLE WHITE LANE LINE - 4" WHITE PAVEMENT MARKING
- Ⓐ - 8" SOLID WHITE PAVEMENT MARKINGS
- Ⓑ - 8" WHITE BROKEN PAVEMENT MARKING; 3' LINE, 9' GAP
- Ⓒ - 8" WHITE DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP
- Ⓓ - 4" WHITE BROKEN PAVEMENT MARKINGS; 10' LINE, 30' GAP
- Ⓔ - 4" WHITE BROKEN PAVEMENT MARKINGS; 3' LINE, 9' GAP
- Ⓕ - 4" WHITE DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP
- Ⓖ - 4" YELLOW DOTTED PAVEMENT MARKINGS; 2' LINE, 4' GAP

**PAVEMENT MARKING NOTES**

1. FINAL PAVEMENT MARKINGS ON COOK AVENUE TO BE EPOXY RESIN. ALL OTHER PAVEMENT MARKINGS TO BE PAINTED.
2. PAVEMENT MARKINGS SHALL BE INSTALLED THROUGHOUT PROJECT AREA TO LIMITS OF PAVEMENT MARKINGS AS INDICATED ON PLAN OR AS DIRECTED BY THE ENGINEER. ALL CONFLICTING PAVEMENT MARKINGS WITHIN LIMITS OF PAVEMENT MARKINGS SHALL BE REMOVED.
3. PAVEMENT MARKINGS SHALL BE INSTALLED PER TRAFFIC STANDARD SHEETS TR-1210\_04: PAVEMENT MARKINGS LINES AND SYMBOLS, TR-1210\_08: PAVEMENT MARKINGS FOR NON FREEWAYS, AND TR-1210\_09: PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RAILROAD GRADE CROSSINGS.

**SIGNING NOTES**

1. ALL EXISTING SIGNS WITHIN THE LIMITS OF WORK TO BE RETAINED UNLESS OTHERWISE NOTED ON PLAN OR DIRECTED BY THE ENGINEER.
2. ALL EXISTING SIGNS OUTSIDE THE LIMITS OF WORK ARE TO REMAIN UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. SIGNS TO BE INSTALLED PER TRAFFIC STANDARD SHEETS TR-1208\_01: SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS, AND TR-1208\_02: METAL SIGN POSTS AND SIGN MOUNTING DETAILS.
4. EXACT SIGN LOCATIONS TO BE VERIFIED BY THE ENGINEER.
5. SIGNS SHALL BE PLACED NO CLOSER THAN 10' (FEET) FROM UTILITY POLES.

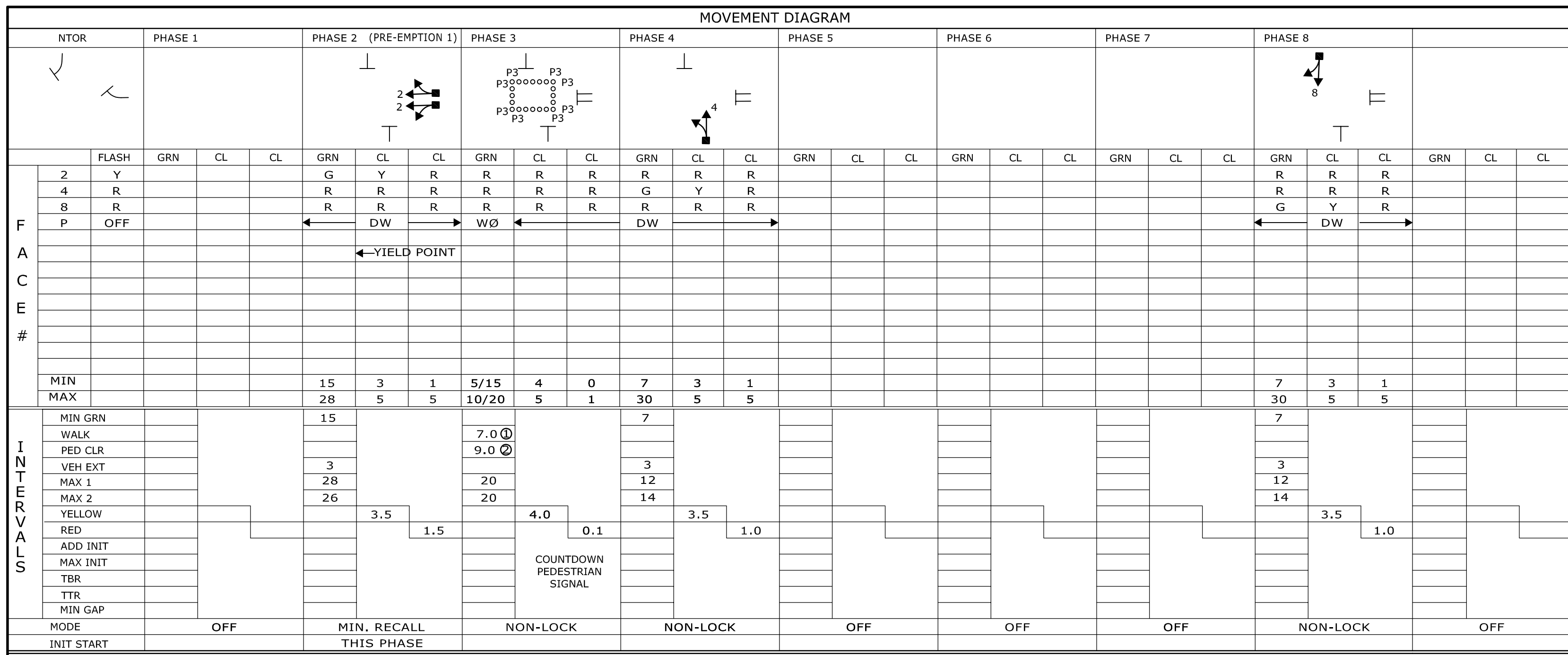
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/16/20	DESIGNER/DRAFTER: CJS		
					CHECKED BY: RRH		
				 SCALE 1"=20' File name: HW_MSH-SPM.DWG	<b>MERIDEN</b> <b>SIGNING AND PAVEMENT MARKING PLAN</b>		PROJECT NO. <b>0079-0241</b> DRAWING NO. <b>SPM-12</b> SHEET NO. <b>33</b>









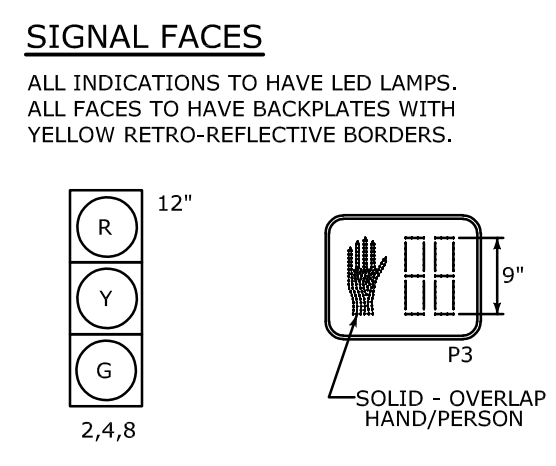


IDENT	SIZE (WXL)	TYPE	MODE	PRESENCE	SYSTEM LOC	COORDINATION TYPE: HARD WIRE										PERMIS PERIOD									
						FUNCTION	PROGRAM TIME	DAYS	CYCLE	OFFSET	PHASE SPLITS			SEC / %											
D2-D2A	6' X 50'	360 VIDEO	PRESENCE	W.MAIN BUTLER	MASTER 079-241	FLASH	NONE																		
D4	6' X 50'	360 VIDEO	PRESENCE	W.MAIN S.GROVE		MAX 1	FUTURE																		
D8	6' X 50'	360 VIDEO	PRESENCE			MAX 2	ALL OTHER TIMES																		
						PATTERN 1	0700-1100	M-SA	60	40	67	26	44	20	33	14	23								
						PATTERN 2	1100-1900	M-SA	60	41	68	26	47	20	33	12	20								

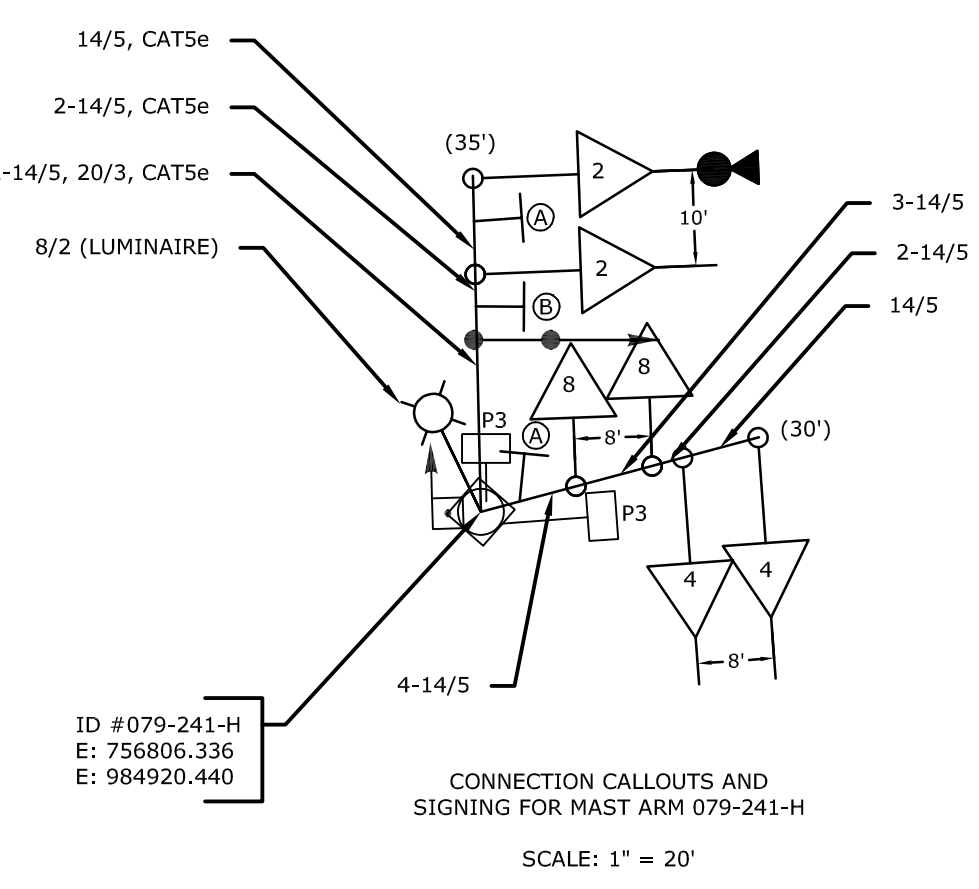
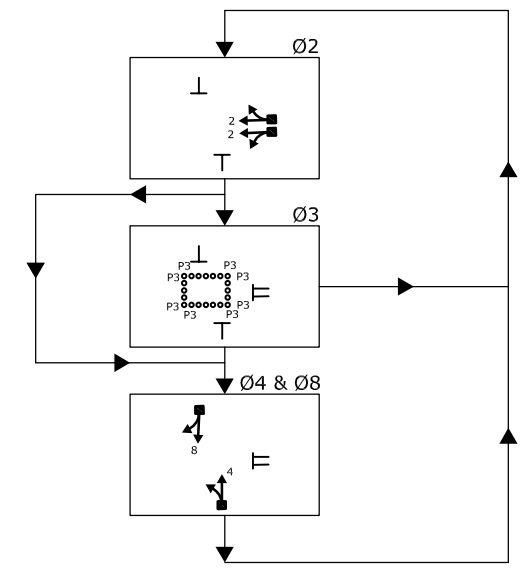
TECHNICAL NOTES		OFFICE RECORD	
MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CHANGE INTERVAL.		REV #	TIR #
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.		SIGNAL REVISED	SM #
TIMINGS SHOWN REFLECT FREE OPERATION.		SIGNAL REVISED: NEW EQUIPMENT INSTALLED UNDER STATE PROJECT NO. 079-241.	
ACTUAL COORDINATION INFORMATION TO BE DETERMINED BY THE CLOSED LOOP LOCAL COORDINATION UNIT.		NORMAL	0.178 kW 730 h/mo 129.6 kWh/mo
ARTERY PHASE DETECTION AREAS TO BE NON-ACTUATING DURING COORDINATION.		FLASH	0.048 kW 0 h/mo 0.0 kWh/mo
① PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL.			
② COUNTDOWN ONLY DURING PEDESTRIAN CHANGE INTERVAL.			

#### PRE-EMPTION SETTINGS

	PRE-EMPT 1
PRIORITY	NO
DET. LOCK	YES
DELAY	0
ALT. MIN. GRN	5
ALT. YELLOW	PARENT
ALT. RED	PARENT
ALT. PED. CLR.	9.0
HOLD GREEN	15
HOLD YELLOW	3.5
HOLD RED	1.5
HOLD PHASE	2
EXIT PHASE	4,8
EXIT CALL	NONE

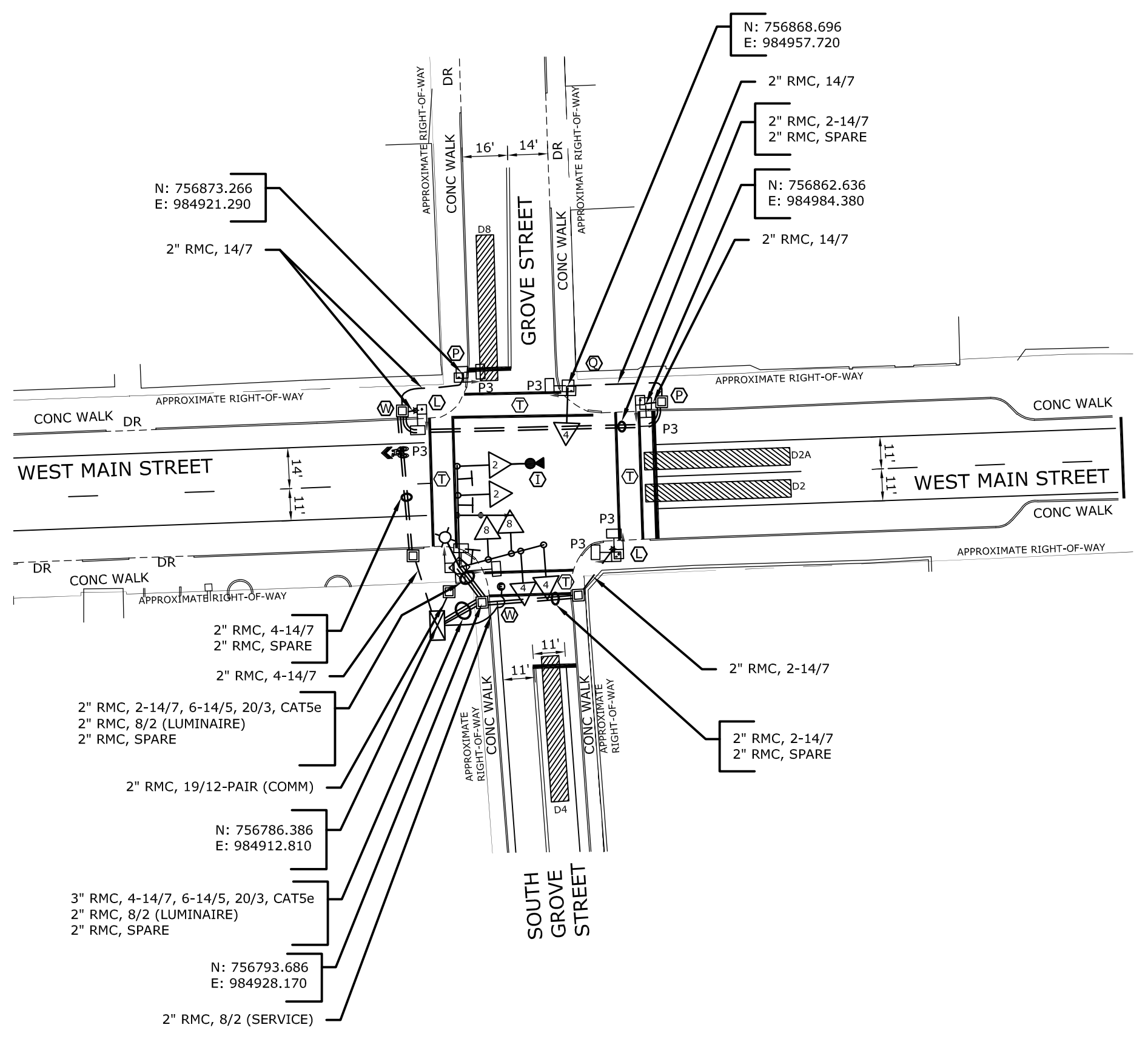


- #### CONSTRUCTION NOTES:
- ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.
  - STAKE ALL R.O.W. PRIOR TO EXCAVATION.
  - ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF MERIDEN PRIOR TO INSTALLATION.
  - THE LOCATION OF TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FEET. IF A MINIMUM 4 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE CITY OF MERIDEN.
  - INSTALL PEDESTAL FOUNDATIONS ADJACENT TO LANDING AREAS.
  - REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.
  - REPLACE IN KIND ALL DISTURBED AREAS (CURBING, SIDEWALK, LANDSCAPE, ETC.) ASSOCIATED WITH THE CONSTRUCTION OF SIGNAL EQUIPMENT. THE LIMIT OF WORK ASSOCIATED WITH THE CONSTRUCTION OF SIGNAL EQUIPMENT SHALL BE A MINIMUM OF TEN (10) FEET UNLESS OTHERWISE SPECIFIED. SIDEWALK SHALL BE RESTORED WITHIN 48 HOURS OF DISTURBANCE.
  - VIDEO DETECTION BY USE OF 360° CAMERA MOUNTED ON MAST ARM #079-241-H.
  - VIDEO DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE CONTROLLER CABINET.
  - COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.
  - INSTALL 30" X 30" HANDHOLE. ALL OTHERS TYPE II.
  - INSTALL 8' ALUMINUM PEDESTAL.
  - INSTALL 12' ALUMINUM PEDESTAL.
  - INSTALL PEDESTRIAN EQUIPMENT ON EXISTING LUMINAIRE POLE. COST OF MODIFYING AS NEEDED FOR INSTALLATION IS CONSIDERED INCIDENTAL TO THE PROJECT AND IS NOT MEASURED FOR PAYMENT.
- ALL MAST ARM MOUNTED TRAFFIC SIGNALS ARE FIXED MOUNTED TO THE ARM BY USE OF ADJUSTABLE BRACKETS.
- CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS.
- MAST ARM ASSEMBLY TO HAVE MINIMUM CLEARANCE OF 24" FROM OVERHEAD COMMUNICATION CABLES.
- PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR HIS DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE CONTROLLER CABINET.
- TRAFFIC SIGNAL EQUIPMENT EXCLUDING THE CONTROLLER CABINET SHALL BE ORNAMENTAL BLACK PER SPECIAL PROVISIONS AND SHEETS S-1 THRU S-8.
- TRIM BUSHES, SHRUBS, TREES, ETC. OBSTRUCTING ANY TRAFFIC SIGNAL EQUIPMENT OR VISIBILITY OF SIGNAL HEAD PAID FOR UNDER ITEM #0952001A.
- A VERTICAL CLEARANCE OF 16 TO 18 FEET OVER ROADWAY PAVEMENT IS REQUIRED FOR TRAFFIC SIGNALS.
- CONTRACTOR TO PROVIDE FIVE SETS OF CABINET WIRING DIAGRAMS IN THE CABINET.
- HANDHOLES INSTALLED IN SIDEWALK SHALL HAVE CAST IRON COVERS.
- MAINTAIN EXISTING SIGNALIZATION DURING CONSTRUCTION.
- PROVIDE ALL NECESSARY APPURTENANCES TO CONNECT ELECTRICAL SERVICE TO EXISTING UTILITY POLE OR MANHOLE AND COORDINATE NEW SERVICE WITH UTILITY COMPANY TO ENSURE ELECTRICAL SERVICE IS AVAILABLE FOR SIGNAL ACTIVATION IMMEDIATELY FOLLOWING COMPLETION OF THE CONTROLLER INSTALLATION AND WIRING.
- USE CAUTION DURING SAWCUT AND INSTALLATION OF CONDUIT AS THERE ARE EXISTING UNDERGROUND UTILITIES. ALL EXCAVATION AND COMPACTION ABOVE GAS FACILITIES AND WITHIN A 45° ANGLE OF INFLUENCE SHALL BE COMPLETED BY HAND.
- ALL FOUNDATIONS TO BE LOCATED ONE FOOT FROM GAS FACILITIES OR BRICK ENCASED EVERSOURCE ELECTRIC MANHOLES. EVERSOURCE ELECTRIC MANHOLES AND CONDUIT ENCASED IN CONCRETE DO NOT HAVE CLEARANCE REQUIREMENTS, HOWEVER THE CONTRACTOR SHALL NOT DIG INTO THE CONCRETE.
- SHOULD THE EVERSOURCE CAST IRON GAS MAIN BE EXPOSED OR SOME NEED OCCUR FOR A CROSSING UNDERNEATH IT, PLEASE CONTACT GREG MAY - FIELD OPERATIONS SUPERVISOR - (860) 612-9219.
- NEW CONDUIT SHOULD MAINTAIN A MINIMUM OF 6" SEPARATION ABOVE WATER, SEWER, AND STORM WATER CROSSINGS. IF CLEARANCE CANNOT BE MET NEW CONDUIT MUST RUN 6" BELOW EXISTING FACILITIES.



- #### SIGNING AND PAVEMENT MARKING NOTES:
- CITY TO MAINTAIN PAVEMENT MARKINGS AND SIGNS.
  - SEE SEPARATE PLAN FOR PAVEMENT MARKINGS AND SIGNING.
  - SEE SEPARATE PLAN FOR MAST ARM CROSS-SECTIONS.
  - ① BAR TYPE CROSSWALK (16" X 24" X 8' MIN.) TOWN MAINTAINED.

- #### SIGN LEGEND:
- ① INSTALL MAST ARM MOUNT 31-0816Z (36"x36"), (NO TURN ON RED)
  - ② INSTALL MAST ARM MOUNT 31-1613 (24"x36"), (TRUCKS/BUSES)



#### MAST ARM INFORMATION

ARM ID #	ATTACHMENT HEIGHT	ARM LENGTH	YEAR INSTALLED
079-241-H	17.5'	30', 35'	XXXX

NO.	DATE	REVISION DESCRIPTION

- #### LEGEND:
- PROPOSED WOOD SPAN POLE
  - EXISTING WOOD SPAN POLE
  - PROPOSED STEEL SPAN POLE
  - EXISTING STEEL SPAN POLE
  - PROPOSED UTILITY POLE
  - EXISTING UTILITY POLE
  - EXISTING MOUNTING
  - PEDESTRIAN PUSH BUTTON & SIGN
  - DIRECTIONAL ARW. FOR PUSH BUTTON
  - PROPOSED TRAFFIC SIGNAL FACE
  - EXISTING TRAFFIC SIGNAL FACE
  - DET. LEADS IN SAW CUT
  - PROPOSED RMC (RIGID METAL CONDUIT)
  - EXISTING RMC (RIGID METAL CONDUIT)
  - AUXILIARY TERMINATION CABINET
  - AUXILIARY EQUIPMENT CABINET
  - VIDEO DETECTION ZONE
  - PROPOSED CONTROLLER
  - EXISTING CONTROLLER
  - LOOP DETECTOR
  - SYSTEM DETECTOR
  - MAGNETIC DETECTOR
  - OPTICAL DETECTOR
  - VIDEO DETECTOR
  - AUDIO DETECTOR
  - VC VIDEO CAMERA CABLE
  - CABLE CLOSURE
  - WIRELESS SENSOR
  - WIRELESS RECEIVER
  - WIRELESS TRANSMITTER
  - GUY WIRE
  - PROPOSED HANDHOLE
  - EXISTING HANDHOLE



#### CITY SIGNAL

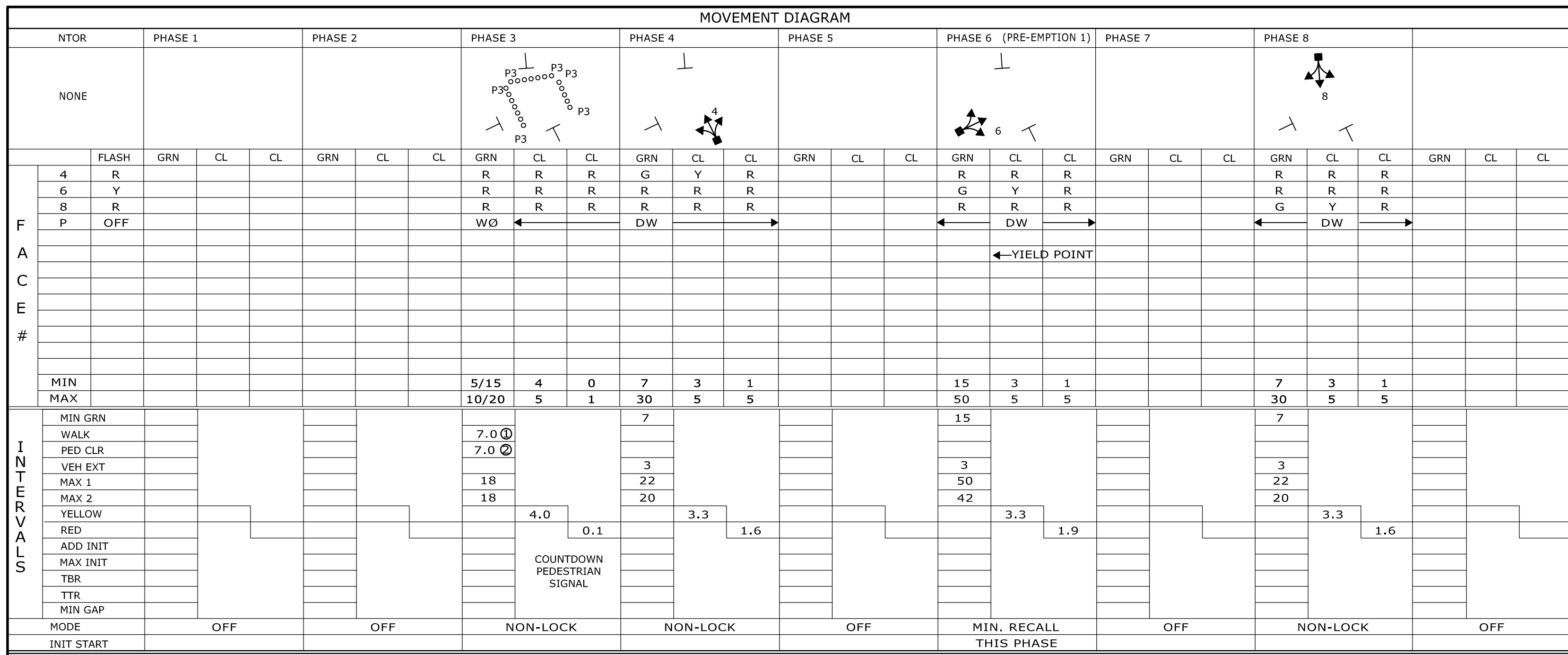
	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER		
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE		

**CITY OF MERIDEN**  
**WEST MAIN STREET AT GROVE STREET & SOUTH GROVE STREET**

REV #	Intersection #

TOWN:	PROJECT NO.
MERIDEN	0079-0241
DRAWING TITLE:	DRAWING NO.
TRAFFIC CONTROL SIGNAL PLAN	TCS-05
SHEET NO.	
38	

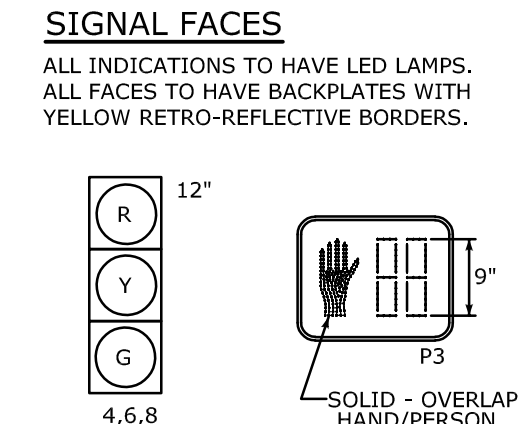
SCALE 1" = 40'



TECHNICAL NOTES		OFFICE RECORD	
MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CHANGE INTERVAL.		REV #	TIR #
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.		SIGNAL REVISED, NEW EQUIPMENT INSTALLED UNDER STATE PROJECT NO. 079-241.	SM #
TIMINGS SHOWN REFLECT FREE OPERATION.			SIGNAL REVISED:
ACTUAL COORDINATION INFORMATION TO BE DETERMINED BY THE CLOSED LOOP LOCAL COORDINATION UNIT.		NORMAL	0.161 kW 730 h/mo 117.5 kWh/mo
ARTERY PHASE DETECTION AREAS TO BE NON-ACTUATING DURING COORDINATION.		FLASH	0.048 kW 0 h/mo 0.0 kWh/mo
① PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL.			
② COUNTDOWN ONLY DURING PEDESTRIAN CHANGE INTERVAL.			

#### PRE-EMPTION SETTINGS

SETTING	PRE-EMPT 1
PRIORITY	NO
DET. LOCK	YES
DELAY	0
ALT. MIN. GRN	5
ALT. YELLOW	PARENT
ALT. RED	PARENT
ALT. PED. CLR.	7.0
HOLD GREEN	15
HOLD YELLOW	3.3
HOLD RED	1.9
HOLD PHASE	6
EXIT PHASE	4,8
EXIT CALL	NONE



#### CONSTRUCTION NOTES:

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF MERIDEN PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FEET. IF A MINIMUM 4 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE CITY OF MERIDEN.

INSTALL PEDESTAL FOUNDATIONS ADJACENT TO LANDING AREAS.

EXCEPT FOR TEST PURPOSES, KEEP SIGNALS BAGGED PRIOR TO THE FUNCTIONAL INSPECTION (CURRENT EDITION OF THE STANDARD SPECIFICATIONS, SECT. 10.00.10). SIGNAL MAY BE PLACED IN FLASHING OPERATION NO MORE THAN 7 DAYS PRIOR TO PLACING IN NORMAL OPERATION.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.

REPLACE IN KIND ALL DISTURBED AREAS (CURBING, SIDEWALK, LANDSCAPE, ETC.) ASSOCIATED WITH THE CONSTRUCTION OF SIGNAL EQUIPMENT. THE LIMIT OF WORK ASSOCIATED WITH THE CONSTRUCTION OF SIGNAL EQUIPMENT SHALL BE A MINIMUM OF TEN (10) FEET UNLESS OTHERWISE SPECIFIED. SIDEWALK SHALL BE RESTORED WITHIN 48 HOURS OF DISTURBANCE.

① VIDEO DETECTION BY USE OF 360° CAMERA MOUNTED ON MAST ARM #079-241-1.

VIDEO DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE CONTROLLER CABINET.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

② INSTALL 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

③ INSTALL TYPE 8 CONCRETE SIDEWALK RAMP.

④ INSTALL TYPE 9 CONCRETE SIDEWALK RAMP.

⑤ INSTALL 8' ALUMINUM PEDESTAL.

⑥ INSTALL 12' ALUMINUM PEDESTAL.

DETECTORS				SYSTEM LOC	COORDINATION TYPE: HARD WIRE																
IDENT	SIZE (WXL)	TYPE	MODE	MASTER	PROGRAM	FUNCTION	TIME	DAYS	CYCLE	OFFSET	PHASE SPLITS								PERMIS PERIOD		
				HANOVER BUTLER	FLASH	NONE			SEC	%	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø	SEC	
D4	6' X 50'	360 VIDEO	PRESENCE	HANOVER S. GROVE	MAX 1	FUTURE															
D6	6' X 50'	360 VIDEO	PRESENCE	HANOVER COLONY	MAX 2	ALL OTHER TIMES															
D8	6' X 50'	360 VIDEO	PRESENCE		PATTERN 1	0700-1100	M-SA	65	6	9											
					PATTERN 2	1100-1900	M-SA	65	9	14											

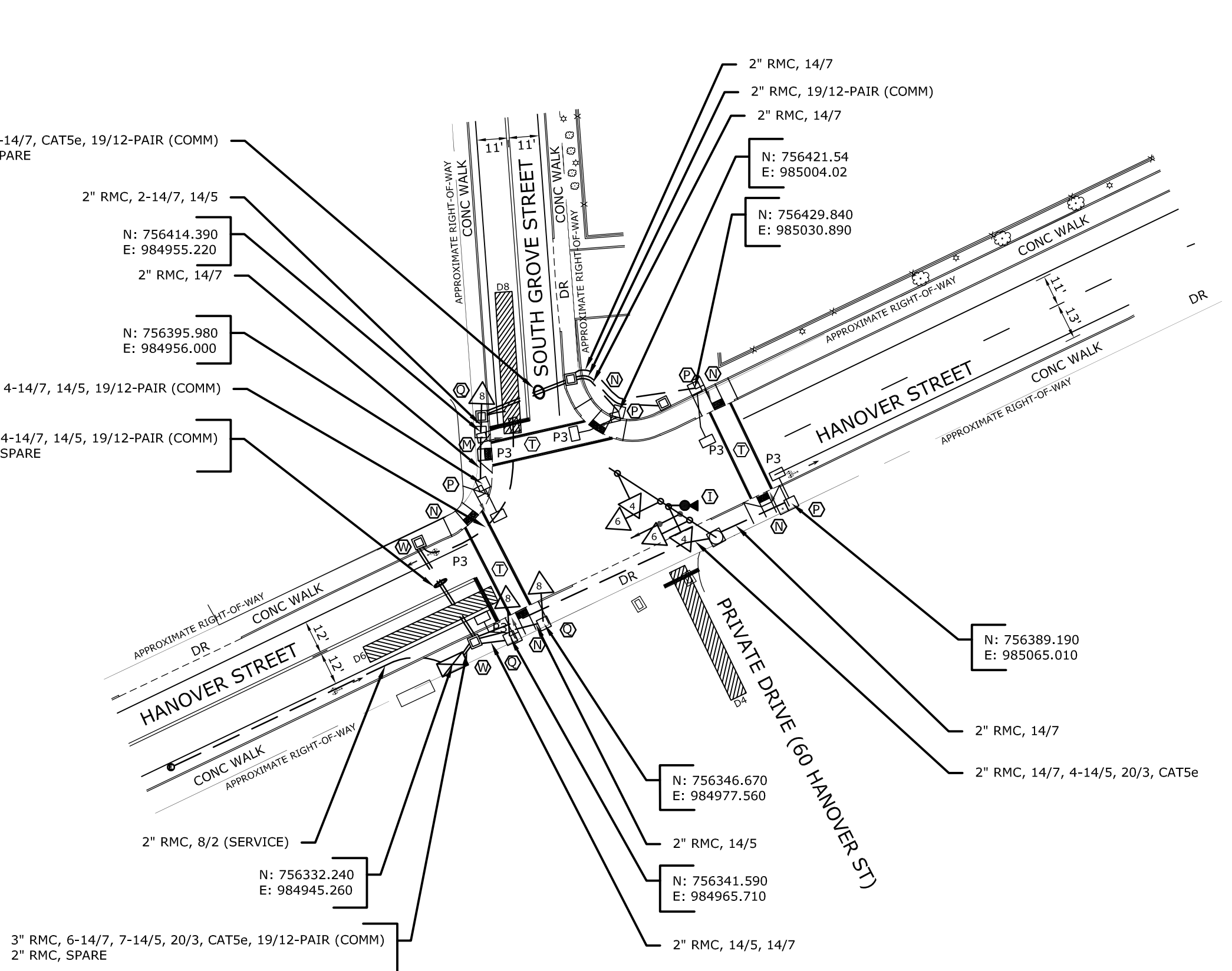
**SIGNING AND PAVEMENT MARKING NOTES:**

CITY TO MAINTAIN PAVEMENT MARKINGS AND SIGNS.

SEE SEPARATE PLAN FOR PAVEMENT MARKINGS AND SIGNING.

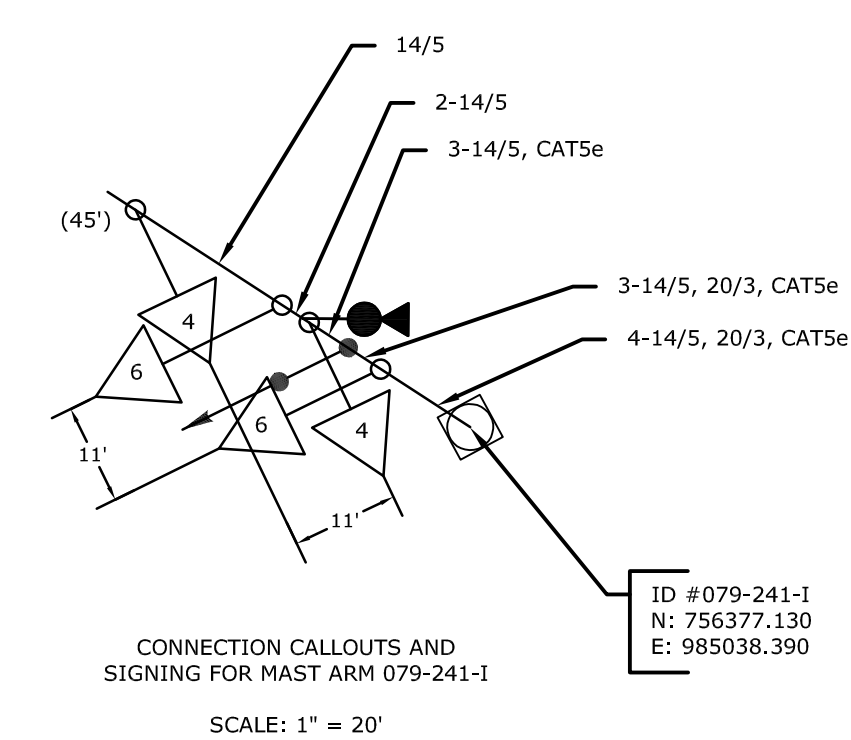
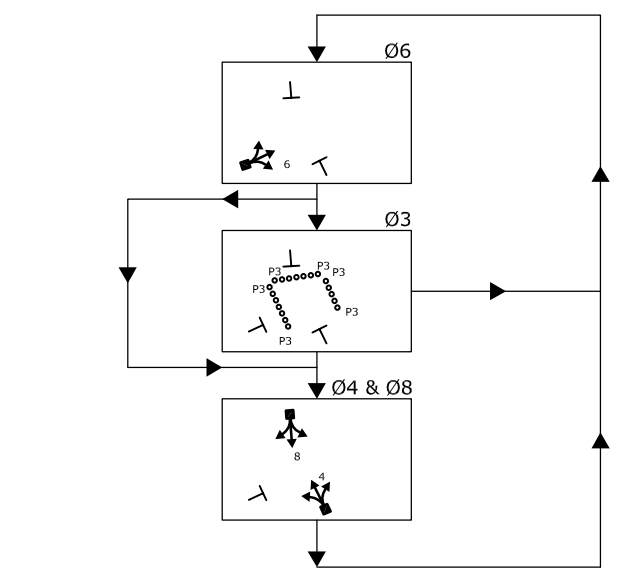
SEE SEPARATE PLAN FOR MAST ARM CROSS-SECTIONS.

① BAR TYPE CROSSWALK (16" X 24" X 8' MIN.) TOWN MAINTAINED.



#### MAST ARM INFORMATION

ARM ID #	ATTACHMENT HEIGHT	ARM LENGTH	YEAR INSTALLED
079-241-1	17.5'	45'	XXXX



#### CITY SIGNAL

	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER		
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE		



**CITY OF MERIDEN**  
**HANOVER STREET AT**  
**SOUTH GROVE STREET**

REV #	Intersection #
ENERGY BY - CITY	ADDRESS #
MAINT LEVEL - NORMAL	SERVICE POLE - UNDERGROUND
	SERVICE TYPE - UNMETERED

TOWN: **MERIDEN**

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

PROJECT NO.: 0079-0241

DRAWING NO.: TCS-06

SHEET NO.: **39**

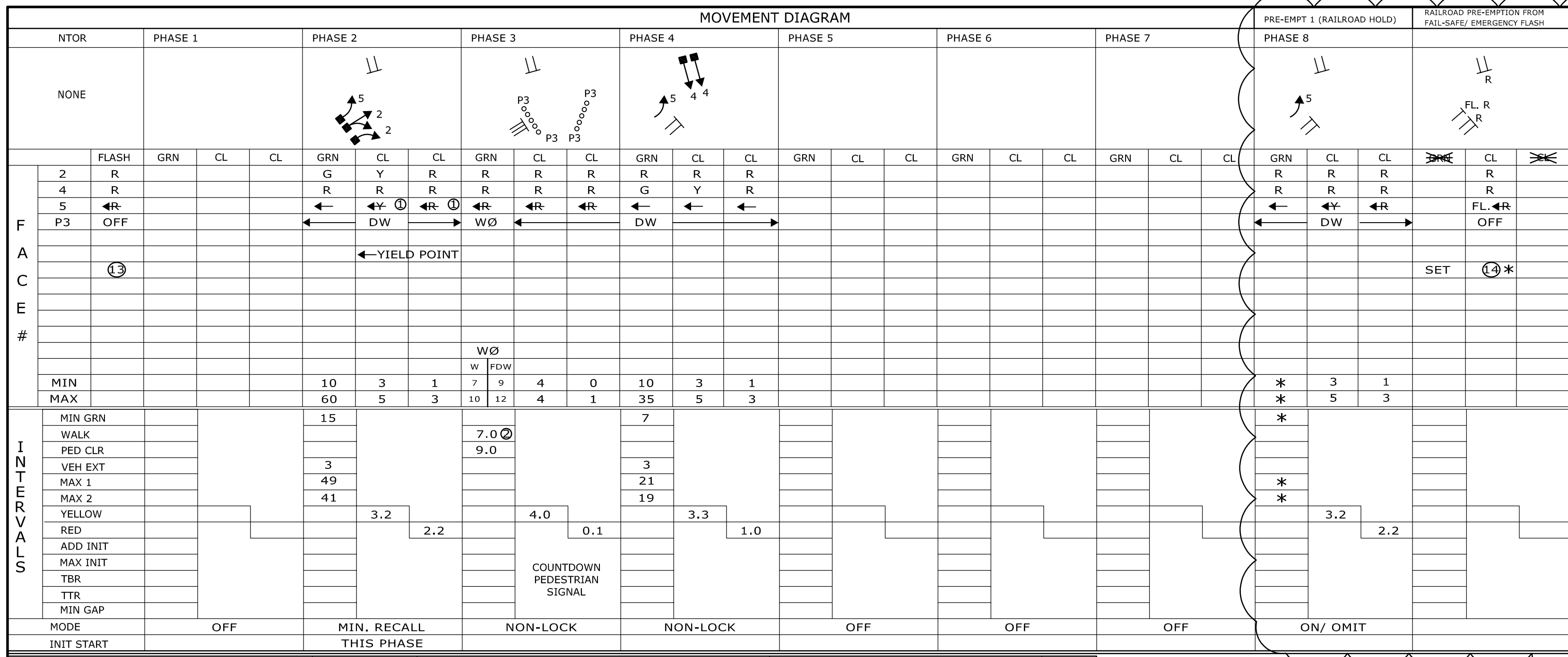
NO.	DATE	REVISION DESCRIPTION

LEGEND:	PROPOSED:	EXISTING:	VIDEO CAMERA CABLE:
R, Y, G	PROPOSED WOOD SPAN POLE	EXISTING WOOD SPAN POLE	VIDEO CAMERA CABLE
RED ARROW	PROPOSED STEEL SPAN POLE	EXISTING STEEL SPAN POLE	CABLE CLOSURE
GREEN ARROW	PROPOSED UTILITY POLE	EXISTING UTILITY POLE	WIRELESS SENSOR
WALK/ PED. CLR	EXISTING UTILITY POLE	EXISTING UTILITY POLE	WIRELESS RECEIVER
D.W. DON'T WALK	PEDESTAL MOUNTING	PEDESTAL MOUNTING	WIRELESS TRANSMITTER
FL. FLASHING	PEDESTRIAN PUSH BUTTON & SIGN	PEDESTRIAN PUSH BUTTON & SIGN	GUY WIRE
	DIRECTIONAL ARW. FOR PUSH BUTTON	DIRECTIONAL ARW. FOR PUSH BUTTON	PROPOSED HANDHOLE
			EXISTING HANDHOLE

SCALE 1" = 40'

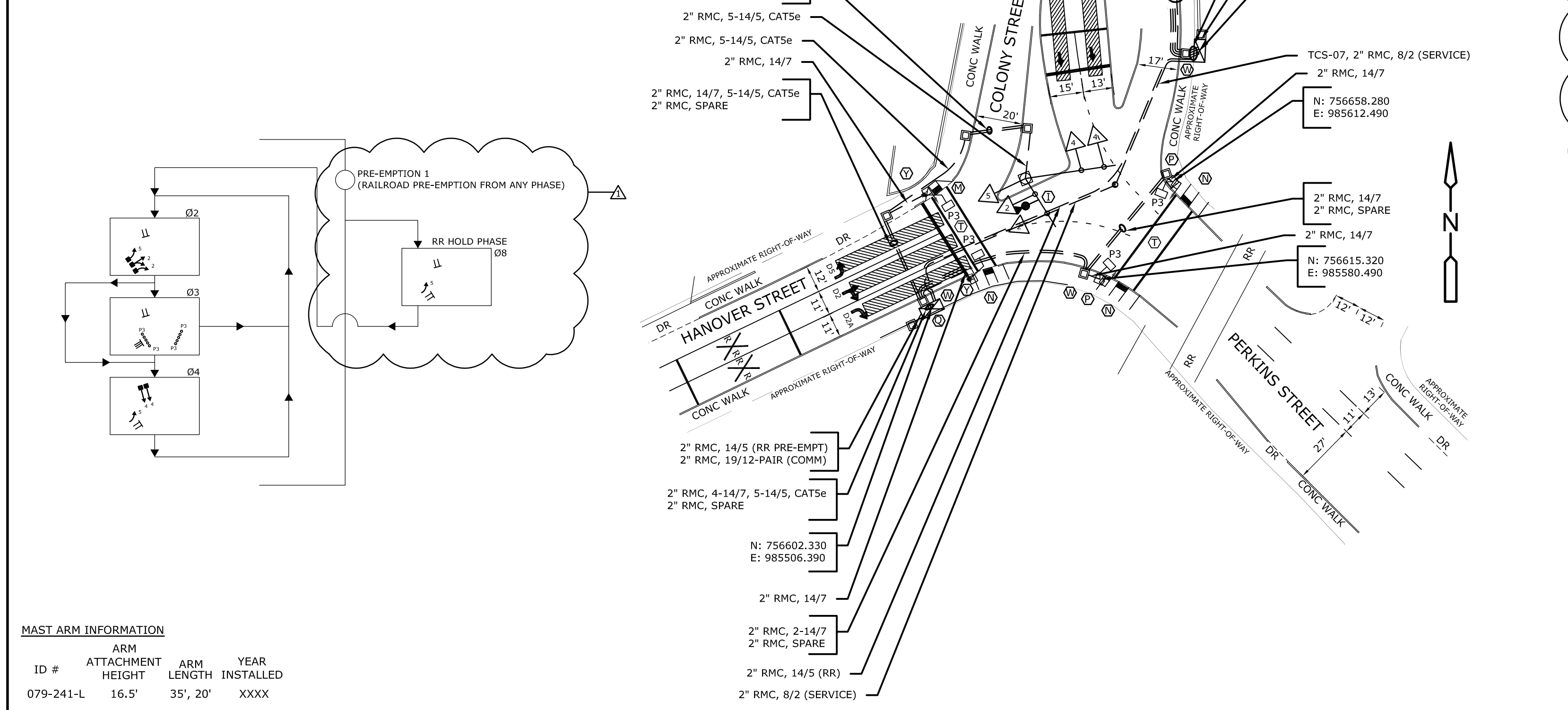






IDENT	SIZE (WXL)	TYPE	MODE	SYSTEM LOC	COORDINATION TYPE: HARD WIRE		PERMIS PERIOD
					PROGRAM TIME	DAYS	
D2-D2A	6' X 50'	360 VIDEO	PRESENCE	HANOVER BUTLER	FLASH	TIME	0
D4-D4A	6' X 50'	360 VIDEO	PRESENCE	HANOVER COLONY	MAX 1	FUTURE	0
D5	6' X 50'	360 VIDEO	PRESENCE		MAX 2	ALL OTHER TIMES	0
					PATTERN 1	0700-1100	M-SA 65 32 49
					PATTERN 2	1100-1900	M-SA 65 34 52

**SIGNING AND PAVEMENT MARKING NOTES:**  
 CITY TO MAINTAIN PAVEMENT MARKINGS AND SIGNS.  
 SEE SEPARATE PLAN FOR PAVEMENT MARKINGS AND SIGNING.  
 SEE SEPARATE PLAN FOR MAST ARM CROSS-SECTIONS.  
 (1) BAR TYPE CROSSWALK (16' X 24' X 8' MIN.) TOWN MAINTAINED.



**MAST ARM INFORMATION**

ARM	ATTACHMENT	ARM LENGTH	YEAR INSTALLED
079-241-L	16.5'	35', 20'	XXXX

- LEGEND:**
- PROPOSED WOOD SPAN POLE
  - EXISTING WOOD SPAN POLE
  - PROPOSED STEEL SPAN POLE
  - EXISTING STEEL SPAN POLE
  - PROPOSED UTILITY POLE
  - EXISTING UTILITY POLE
  - EXISTING UTILITY POLE
  - PEDESTAL MOUNTING
  - PEDESTRIAN PUSH BUTTON & SIGN
  - DIRECTIONAL ARW. FOR PUSH BUTTON
  - TRAFFIC SIGNAL FACE
  - PEDESTRIAN SIGNAL FACE
  - DET. LEADS IN SAW CUT
  - EXISTING RMC (RIGID METAL CONDUIT)
  - AUXILIARY TERMINATION CABINET
  - AUXILIARY EQUIPMENT CABINET
  - VIDEO DETECTION ZONE
  - VIDEO DETECTOR
  - AUDIO DETECTOR
  - VC VIDEO CAMERA CABLE
  - CABLE CLOSURE
  - WIRELESS SENSOR
  - WIRELESS RECEIVER
  - WIRELESS TRANSMITTER
  - GUY WIRE
  - PROPOSED HANDHOLE
  - EXISTING HANDHOLE

**TECHNICAL NOTES**

- TO BE 4 - IF PHASE 3 IS SKIPPED AND PHASE 4 IS NEXT.
- PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL.
- MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CHANGE INTERVAL.
- TIMINGS SHOWN REFLECT FREE OPERATION.
- ACTUAL COORDINATION INFORMATION TO BE DETERMINED BY THE CLOSED LOOP LOCAL COORDINATION UNIT.
- ARTERY PHASE DETECTION AREAS TO BE NON-ACTUATING DURING COORDINATION.
- CONTROLLER SHALL IMMEDIATELY ADVANCE OUT OF ANY GREEN, INCLUDING MIN. GREEN, INTO CLEARANCE INTERVALS GOING TO RAILROAD PREEMPTION, AND THEN GO DIRECTLY TO RAILROAD HOLD PHASE (PHASE 8).
- WHEN RAILROAD PRE-EMPTION OCCURS DURING THE CLEARANCE INTERVAL OF ANY PHASE, THE CONTROLLER WILL DROP THE NEXT PHASE CALL, FINISH TIMING OF THE CLEARANCE INTERVALS GOING TO RAILROAD PREEMPTION, AND THEN GO DIRECTLY TO RAILROAD HOLD PHASE (PHASE 8).
- PEDESTRIAN TIMING TO IMMEDIATELY ADVANCE OUT OF WALK AND PEDESTRIAN CLEARANCE INTERVAL TIMINGS, INTO CLEARANCE INTERVALS GOING TO RAILROAD PRE-EMPTION, AND THEN GO DIRECTLY TO RAILROAD HOLD PHASE (PHASE 8).
- CONTROLLER TO RETURN TO PHASE 2 AFTER RAILROAD PRE-EMPTION.
- POLICE BOX MANUAL SHALL BE ABLE TO BE PRE-EMPTED BY THE RAILROAD CIRCUIT. THE POLICE BOX MANUAL CONTROL SHALL REMAIN INOPERATIVE FROM THE TIME A PRE-EMPTION CALL IS RECEIVED UNTIL CONTROLLER LEAVES THE RAILROAD HOLD PHASE (PHASE 8) AND RETURNS TO PHASE 2 GREEN.
- ANY CHANGE IN THE CLEARANCE INTERVALS DENOTED ON THIS PLAN MAY REQUIRE A MODIFICATION OF THE RAILROAD CIRCUIT.
- FLASH OPERATION TO REVERT TO "RAILROAD PRE-EMPTION FROM FAIL-SAFE/ EMERGENCY FLASHING OPERATION" UPON RECEIPT OF PRE-EMPTION CALL.
- RAILROAD DEVICES TO ACTIVATE IMMEDIATELY AFTER RAILROAD PRE-EMPTION CALL.
- TRAFFIC SIGNAL SHALL NOT BE PLACED ON PROGRAMMED FLASHING OPERATION.
- INTERVAL TO BE DETERMINED BY PRESENCE OF TRAIN.

**RAILROAD PRE-EMPTION**

TIME	EVENT
0"	START OF TRAFFIC SIGNAL PRE-EMPTION
0"	START OF RAILROAD FLASHING AND BELLS
7"	RAILROAD GATES START TO DROP
17"	RAILROAD GATES HORIZONTAL
29"	TRAIN ENTERS THE CROSSING

**PRE-EMPTION SETTINGS**

PRIORITY	RAILROAD
DET. LOCK	YES
DELAY	0
ALT. MIN. GRN	0
ALT. YELLOW	4
ALT. RED	2
ALT. PED. CLR.	NO
HOLD GREEN	*
HOLD YELLOW	3.2
HOLD RED	2.2
HOLD PHASE	8
EXIT PHASE	2
EXIT CALL	NONE

**RAILROAD OPERATIONAL NOTES**  
 RAILROAD PRE-EMPTION (NORMAL OPERATION)

- TRAIN ENTERS TRACK CIRCUIT, RAILROAD PROVIDES IMMEDIATE PRE-EMPTION CIRCUIT TO THE TRAFFIC SIGNAL CONTROLLER CABINET.
- THE TRAFFIC SIGNAL CONTROLLER IMMEDIATELY ADVANCES THE SEQUENCE TO THE RR HOLD PHASE (PHASE 8) VIA THE PROPER YELLOW AND RED CLEARANCE INTERVALS.
- THE TRAFFIC SIGNAL CONTROLLER WILL HOLD IN THE RR HOLD PHASE (PHASE 8).
- THE RAILROAD FLASHING LIGHTS AND BELL(S) WILL COMMENCE IMMEDIATELY AFTER THE PRE-EMPTION CALL IS RECEIVED. STANDARD RAILROAD TIMING FOR LIGHTS, BELL(S), AND GATES WILL COMMENCE OPERATION A MINIMUM OF 29 SECONDS PRIOR TO THE TRAIN ENTERING THE CROSSING.
- WHEN THE TRAIN HAS LEFT THE CROSSING AND THE TRACK CIRCUIT, THE TRAFFIC CONTROL SIGNAL SHALL RETURN TO NORMAL OPERATION, PHASE 2.

**RAILROAD PRE-EMPTION (FROM FAIL-SAFE/EMERGENCY FLASHING OPERATION)**

- TRAIN ENTERS TRACK CIRCUIT, RAILROAD PROVIDES IMMEDIATE PRE-EMPTION CIRCUIT TO THE TRAFFIC SIGNAL CONTROLLER CABINET.
- THE TRAFFIC SIGNAL IMMEDIATELY CHANGES FROM AN ALL RED FLASHING OPERATION TO A STEADY RED ON SIGNAL FACES 2 AND 4 AND REMAIN FLASHING RED ON SIGNAL FACE 5.
- THE RAILROAD FLASHING LIGHTS, AND BELL(S) WILL COMMENCE OPERATION IMMEDIATELY AFTER THE PRE-EMPTION CALL IS RECEIVED. STANDARD RAILROAD TIMING FOR LIGHTS, BELL(S), AND GATES WILL COMMENCE OPERATION A MINIMUM OF 29 SECONDS PRIOR TO THE TRAIN ENTERING THE CROSSING.
- WHEN THE TRAIN HAS LEFT THE CROSSING AND THE TRACK CIRCUIT, THE RAILROAD DEVICES WILL DEACTIVATE AND THE TRAFFIC CONTROL SIGNAL SHALL RETURN TO FAIL-SAFE/ EMERGENCY ALL-RED FLASHING OPERATION.

**SIGNAL FACES**

ALL INDICATIONS TO HAVE LED LAMPS.  
 ALL FACES TO HAVE BACKPLATES WITH YELLOW RETRO-REFLECTIVE BORDERS.  
 SIGNAL HEAD 5 SHALL BE OPTICALLY PROGRAMMED.

**CITY SIGNAL**

ENGINEER	TRAFFIC DESIGN	ELECTRICAL DESIGN
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE		

**ALTERNATE B**

CONNECTION CALLOUTS AND SIGNING FOR MAST ARM 079-241-L  
 SCALE: 1" = 20'

**OFFICE RECORD**

REV #	TITLE	SM #	SIGNAL REVISED:
0	NORMAL	0.126 kW	730 h/mo 92.3 kWh/mo
1	FLASH	0.044 kW	0 h/mo 0.0 kWh/mo

**CONSTRUCTION NOTES:**

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF MERIDEN PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FEET. IF A MINIMUM 4 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE CITY OF MERIDEN.

INSTALL PEDESTAL FOUNDATIONS ADJACENT TO LANDING AREAS.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.

REPLACE IN KIND ALL DISTURBED AREAS (CURBING, SIDEWALK, LANDSCAPE, ETC.) ASSOCIATED WITH THE CONSTRUCTION OF SIGNAL EQUIPMENT. THE LIMIT OF WORK ASSOCIATED WITH THE CONSTRUCTION OF SIGNAL EQUIPMENT SHALL BE A MINIMUM OF TEN (10) FEET UNLESS OTHERWISE SPECIFIED. SIDEWALK SHALL BE RESTORED WITHIN 48 HOURS OF DISTURBANCE.

- VIDEO DETECTION BY USE OF 360° CAMERA MOUNTED ON MAST ARM #079-241-L.
- VIDEO DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE CONTROLLER CABINET.
- COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.
- INSTALL 30" X 30" HANDHOLE. ALL OTHERS TYPE II.
- INSTALL TYPE 8 CONCRETE SIDEWALK RAMP.
- INSTALL TYPE 9 CONCRETE SIDEWALK RAMP.
- INSTALL 8" ALUMINUM PEDESTAL.
- INSTALL UNINTERRUPTED POWER SUPPLY PAID FOR UNDER ITEM #1113812A.
- INSTALL PEDESTRIAN EQUIPMENT ON EXISTING LUMINAIRE POLE. COST OF MODIFYING AS NEEDED FOR INSTALLATION IS CONSIDERED INCIDENTAL TO THE PROJECT AND IS NOT MEASURED FOR PAYMENT.

ALL MAST ARM MOUNTED TRAFFIC SIGNALS ARE FIXED MOUNTED TO THE ARM BY USE OF ADJUSTABLE BRACKETS.

CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS.

MAST ARM ASSEMBLY TO HAVE MINIMUM CLEARANCE OF 24" FROM OVERHEAD COMMUNICATION CABLES.

TRAFFIC SIGNAL EQUIPMENT EXCLUDING THE CONTROLLER CABINET SHALL BE ORNAMENTAL BLACK PER SPECIAL PROVISIONS AND SHEETS S-1 THRU S-8.

TRIM BUSHES, SHRUBS, TREES, ETC. OBSTRUCTING ANY TRAFFIC SIGNAL EQUIPMENT OR VISIBILITY OF SIGNAL HEAD PAID FOR UNDER ITEM #0952001A.

A VERTICAL CLEARANCE OF 16 TO 18 FEET OVER ROADWAY PAVEMENT IS REQUIRED FOR TRAFFIC SIGNALS.

CONTRACTOR TO PROVIDE FIVE SETS OF CABINET WIRING DIAGRAMS IN THE CABINET.

HANDHOLES INSTALLED IN SIDEWALK SHALL HAVE CAST IRON COVERS.

MAINTAIN EXISTING SIGNALIZATION DURING CONSTRUCTION.

PROVIDE ALL NECESSARY APPURTENANCES TO CONNECT ELECTRICAL SERVICE TO EXISTING UTILITY POLE OR MANHOLE AND COORDINATE NEW SERVICE WITH UTILITY COMPANY TO ENSURE ELECTRICAL SERVICE IS AVAILABLE FOR SIGNAL ACTIVATION IMMEDIATELY FOLLOWING COMPLETION OF THE CONTROLLER INSTALLATION AND WIRING.

USE CAUTION DURING SAWCUT AND INSTALLATION OF CONDUIT AS THERE ARE EXISTING UNDERGROUND UTILITIES. ALL EXCAVATION AND COMPACTION ABOVE GAS FACILITIES AND WITHIN A 45° ANGLE OF INFLUENCE SHALL BE COMPLETED BY HAND.

ALL FOUNDATIONS TO BE LOCATED ONE FOOT FROM GAS FACILITIES OR BRICK ENCASED EVERSOURCE ELECTRIC MANHOLES. EVERSOURCE ELECTRIC MANHOLES AND CONDUIT ENCASED IN CONCRETE DO NOT HAVE CLEARANCE REQUIREMENTS, HOWEVER THE CONTRACTOR SHALL NOT DIG INTO THE CONCRETE.

SHOULD THE EVERSOURCE CAST IRON GAS MAIN BE EXPOSED OR SOME NEED OCCUR FOR A CROSSING UNDERNEATH IT, PLEASE CONTACT GREG MAY - FIELD OPERATIONS SUPERVISOR - (860) 612-9219.

NEW CONDUIT SHOULD MAINTAIN A MINIMUM OF 6" SEPARATION ABOVE WATER, SEWER, AND STORM WATER CROSSINGS. IF CLEARANCE CANNOT BE MET NEW CONDUIT MUST RUN 6" BELOW EXISTING FACILITIES.

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

**CITY OF MERIDEN**  
**HANOVER STREET AT COLONY STREET AND PERKINS STREET**

SCALE 1" = 40'

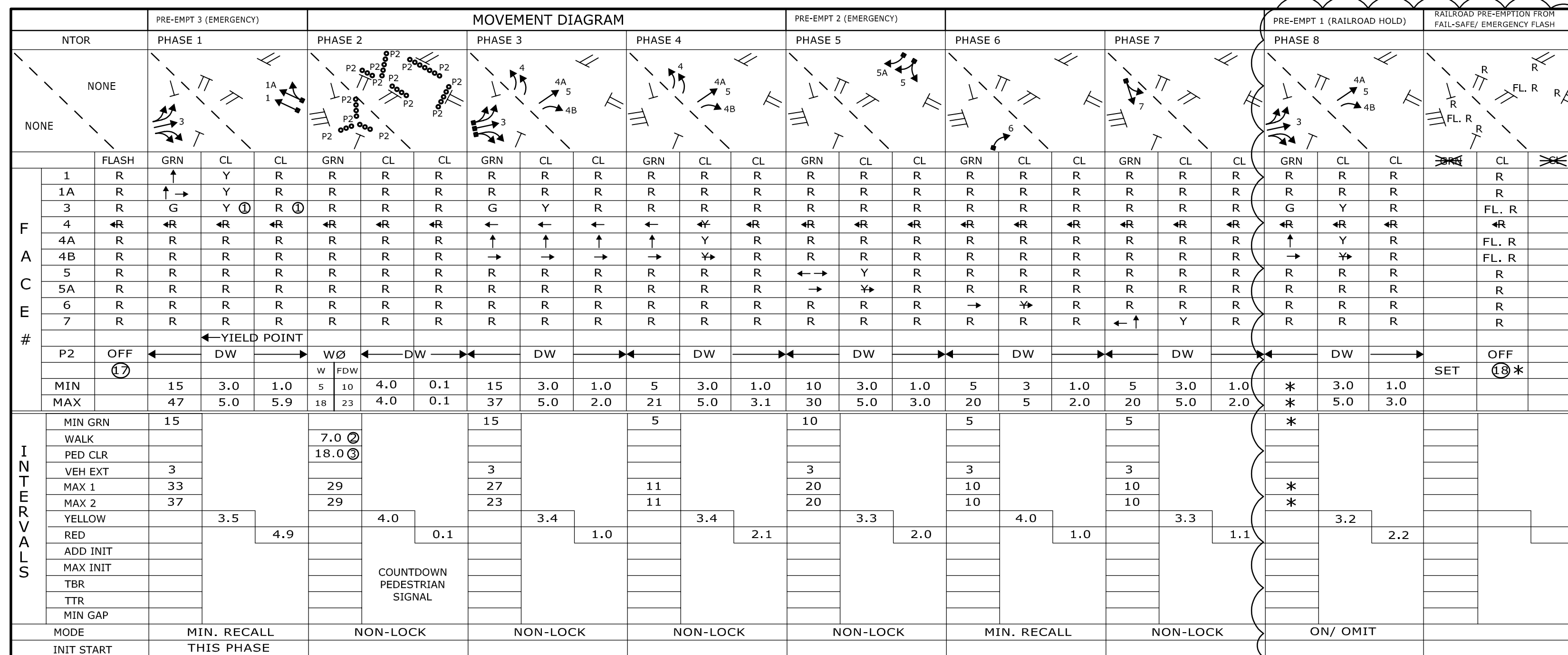
**ALTERNATE B**

PROJECT NO. 0079-0241  
 DRAWING NO. TCS-08  
 SHEET NO. 41

TOWN: MERIDEN

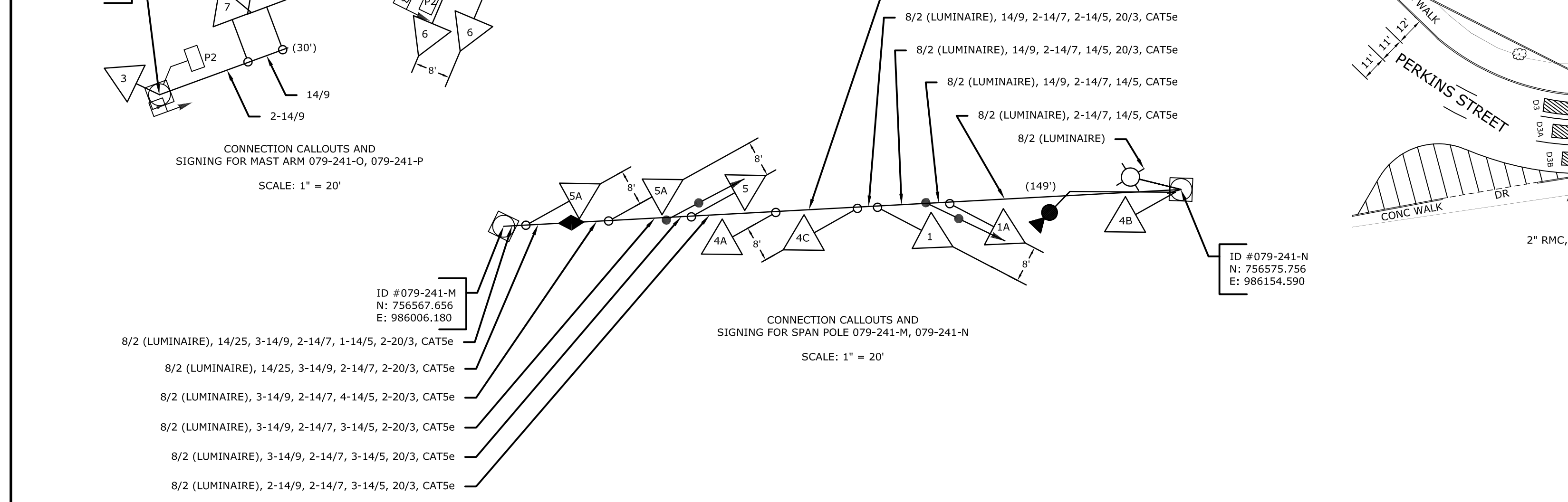
DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

SCALE 1" = 40'



INTERVALS	MIN. RECALL THIS PHASE		NON-LOCK		NON-LOCK		NON-LOCK		NON-LOCK		NON-LOCK		NON-LOCK		NON-LOCK		NON-LOCK		ON/ OMIT			
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX		
WALK	15	47	15	47	15	47	15	47	15	47	15	47	15	47	15	47	15	47	15	47	15	47
VEH EXT	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MAX 1	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
MAX 2	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
YELLOW	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
RED	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
ADD INIT																						
MAX INIT																						
TBR																						
TTR																						
MIN GAP																						
MODE																						
INIT START																						

IDENT	SIZE (WXL)	TYPE	MODE	MASTER E-MAIN STATE	FUNCTION	PROGRAM TIME	DAYS	CYCLE	OFFSET SEC	PHASE SPLITS	PERMIS PERIOD												
											01	02	03	04	05	06	07	08	09	10			
D1	6' X 50'	360 VIDEO	PRESENCE	MAIN COLONY	FLASH	13.00		120	0	0	30	30	29	24	24	11	10	20	16	10	8	10	8
D3	6' X 50'	360 VIDEO	PRESENCE	MAIN COLONY	MAX 2	ALL OTHER TIMES		120	0	0	33	28	29	24	22	11	10	20	16	10	8	10	8
D3A	6' X 50'	360 VIDEO	PRESENCE	MAIN COLONY	PATTERN 1	0700-1100	M-SA	120	0	0	30	30	29	24	24	11	10	20	16	10	8	10	8
D3B	6' X 50'	360 VIDEO	PRESENCE	MAIN COLONY	PATTERN 2	1100-1900	M-SA	120	0	0	33	28	29	24	22	11	10	20	16	10	8	10	8
D4A	6' X 50'	360 VIDEO	PRESENCE	MAIN COLONY																			
D4B	6' X 50'	360 VIDEO	PRESENCE	MAIN COLONY																			
D4C, D4D	6' X 50'	360 VIDEO	PRESENCE	MAIN COLONY																			
D5	6' X 50'	360 VIDEO	PRESENCE	MAIN COLONY																			
D5A	6' X 50'	360 VIDEO	PRESENCE	MAIN COLONY																			
D6	6' X 50'	360 VIDEO	PRESENCE	MAIN COLONY																			
D7	6' X 50'	360 VIDEO	PRESENCE	MAIN COLONY																			

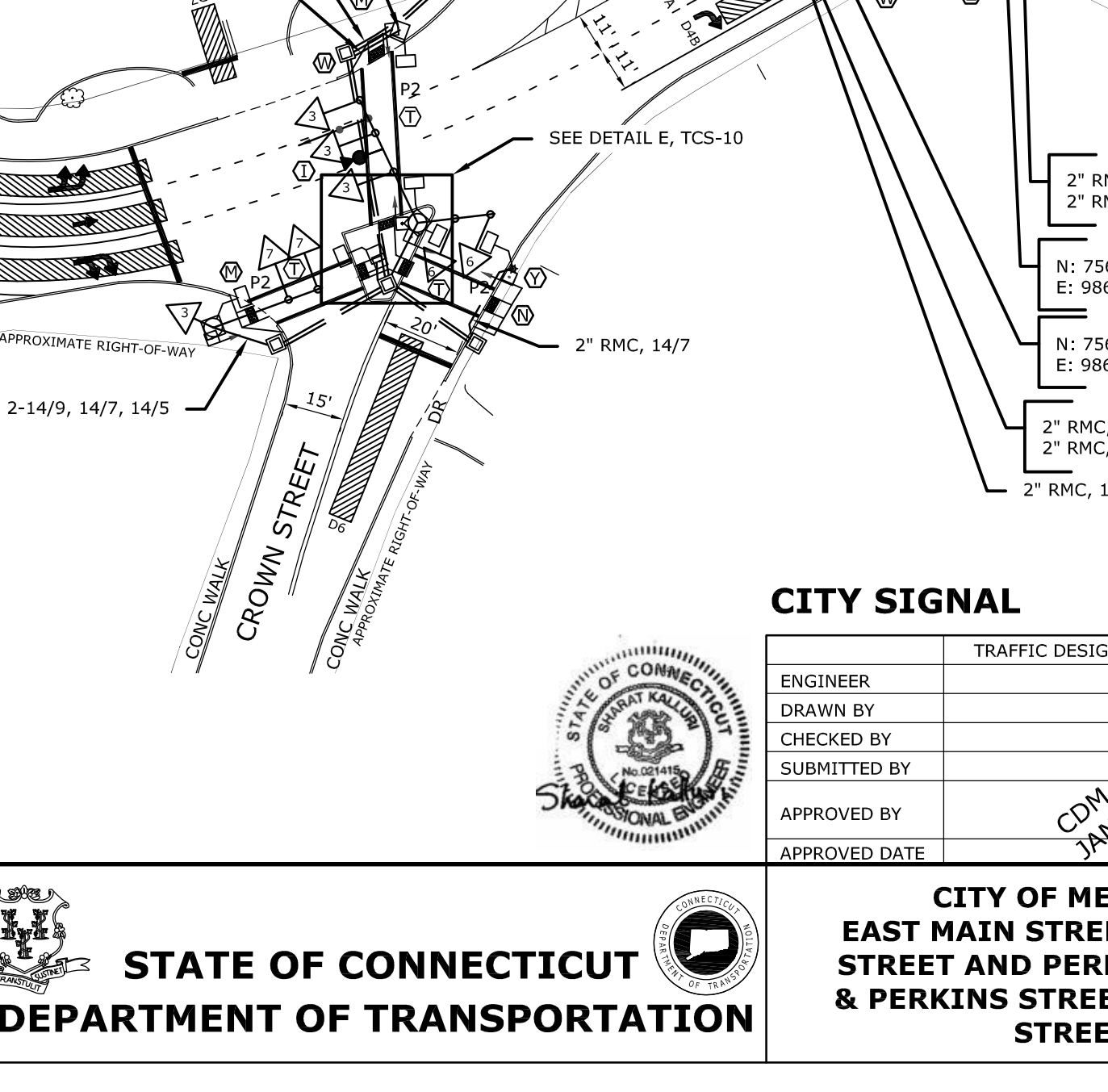
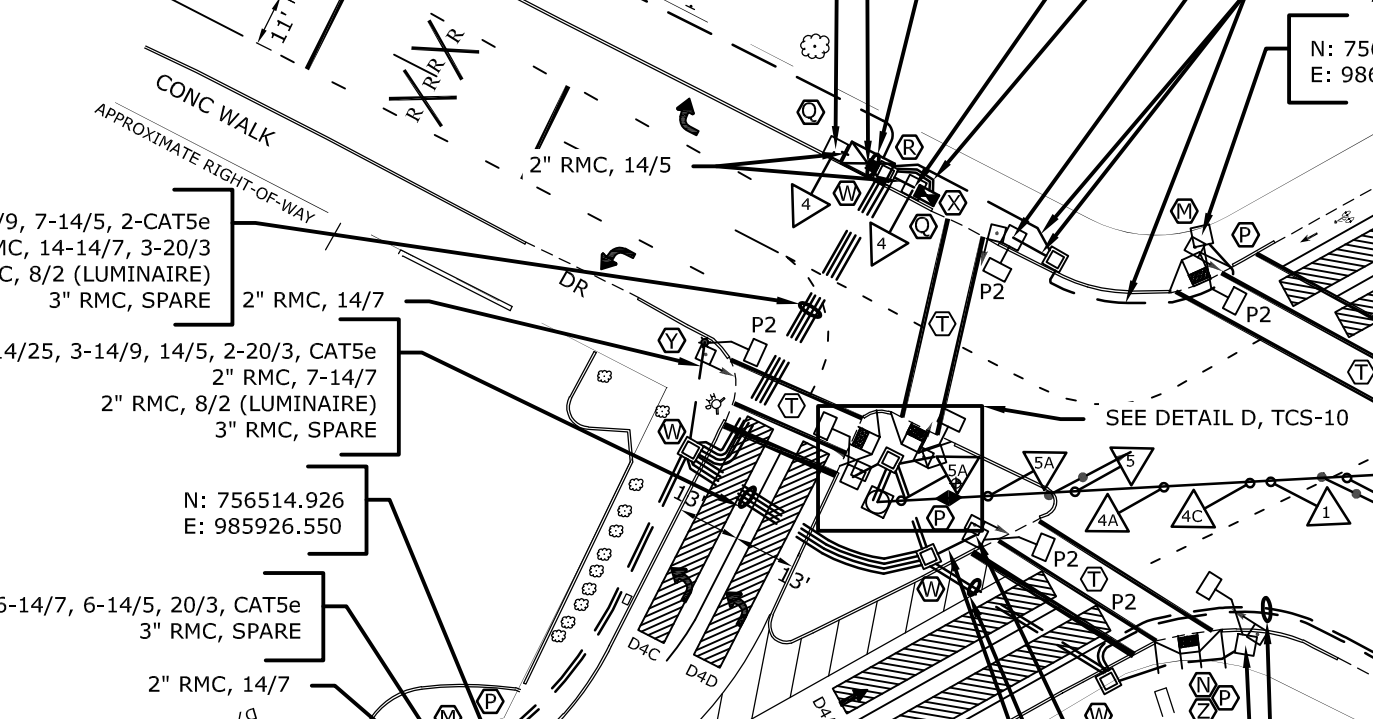


NO.	DATE	REVISION DESCRIPTION

**TECHNICAL NOTES**

- TO BE GREEN IF PHASE 2 IS SKIPPED AND PHASE 3 IS NEXT.
- PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL.
- COUNTDOWN ONLY DURING PEDESTRIAN CHANGE INTERVAL.
- PHASE 3 ON TO CALL PHASE 4.
- MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CHANGE INTERVAL.
- TIMINGS SHOWN REFLECT TO FREE-FLUSH OPERATIONS. PHASE 3 IS TO BE DETERMINED BY THE CLOSED LOOP LOCAL COORDINATION UNIT.
- ACTUAL COORDINATION INFORMATION IS TO BE DETERMINED BY THE CLOSED LOOP LOCAL COORDINATION UNIT.
- ARTERY PHASE DETECTION AREAS TO BE NON-ACTUATING DURING COORDINATION.
- CONTROLLER SHALL IMMEDIATELY ADVANCE OUT OF ANY GREEN, INCLUDING MIN. GREEN AND EMERGENCY PRE-EMPTION GREEN, INTO CLEARANCE INTERVALS GOING TO RAILROAD PRE-EMPTION, AND THEN GO DIRECTLY TO RAILROAD HOLD PHASE (PHASE 8) DURING RAILROAD PRE-EMPTION.
- WHEN RAILROAD PRE-EMPTION OCCURS DURING THE CLEARANCE INTERVAL OF ANY PHASE, THE CONTROLLER WILL DROP THE NEXT PHASE CALL, FINISH TIMING OF THE CLEARANCE INTERVALS GOING TO RAILROAD PRE-EMPTION, AND THEN GO DIRECTLY TO RAILROAD HOLD PHASE (PHASE 8).
- PEDESTRIAN TIMING TO IMMEDIATELY ADVANCE OUT OF WALK AND PEDESTRIAN CLEARANCE INTERVAL TIMINGS INTO CLEARANCE INTERVALS GOING TO RAILROAD PRE-EMPTION, AND THEN GO DIRECTLY TO RAILROAD HOLD PHASE (PHASE 8) DURING RAILROAD PRE-EMPTION.
- RAILROAD SIGNAL SHALL NOT BE PLACED ON PROGRAMMED FLASH.
- INTERVAL TO BE DETERMINED BY PRESENCE OF TRAIN.
- \*\* INTERVAL TO BE DETERMINED BY FIRE APPARATUS.
- FLASHING OPERATION TO REVERT TO "RAILROAD PRE-EMPTION FROM FAIL-SAFE/ EMERGENCY FLASHING OPERATION."
- RAILROAD DEVICES TO ACTIVATE IMMEDIATELY AFTER RAILROAD PRE-EMPTION CALL.
- TRAFFIC SIGNAL SHALL NOT BE PLACED ON PROGRAMMED FLASH.
- \*\* INTERVAL TO BE DETERMINED BY PRESENCE OF TRAIN.
- \*\* INTERVAL TO BE DETERMINED BY FIRE APPARATUS.

RAILROAD	PRE-EMPTION SETTINGS		
	PRE-EMPT 1	EMERGENCY 1	EMERGENCY 2
PRIORITY	YES	NO	NO
DET. LOCK	YES	YES	YES
DELAY	0	0	0
ALT. MIN. GRN	0	5	5
ALT. YELLOW	3.0	PARENT	PARENT
ALT. RED	2.5	PARENT	PARENT
ALT. PED. CLR.	NO	**	**
HOLD GREEN	*	**	**
HOLD YELLOW	3.4	3.3	3.5
HOLD RED	1.0	2.0	4.9
HOLD PHASE	8	5	1
EXIT PHASE	1	1	4,7
EXIT CALL	NONE	NONE	NONE



REV #	TIR #	SM #	SIGNAL REVISED:
NORMAL	0.429	kw	730 h/mo 313.3 kWh/mo
FLASH	0.089	kw	0 h/mo 0.0 kWh/mo

**RAILROAD PRE-EMPTION NOTE:**

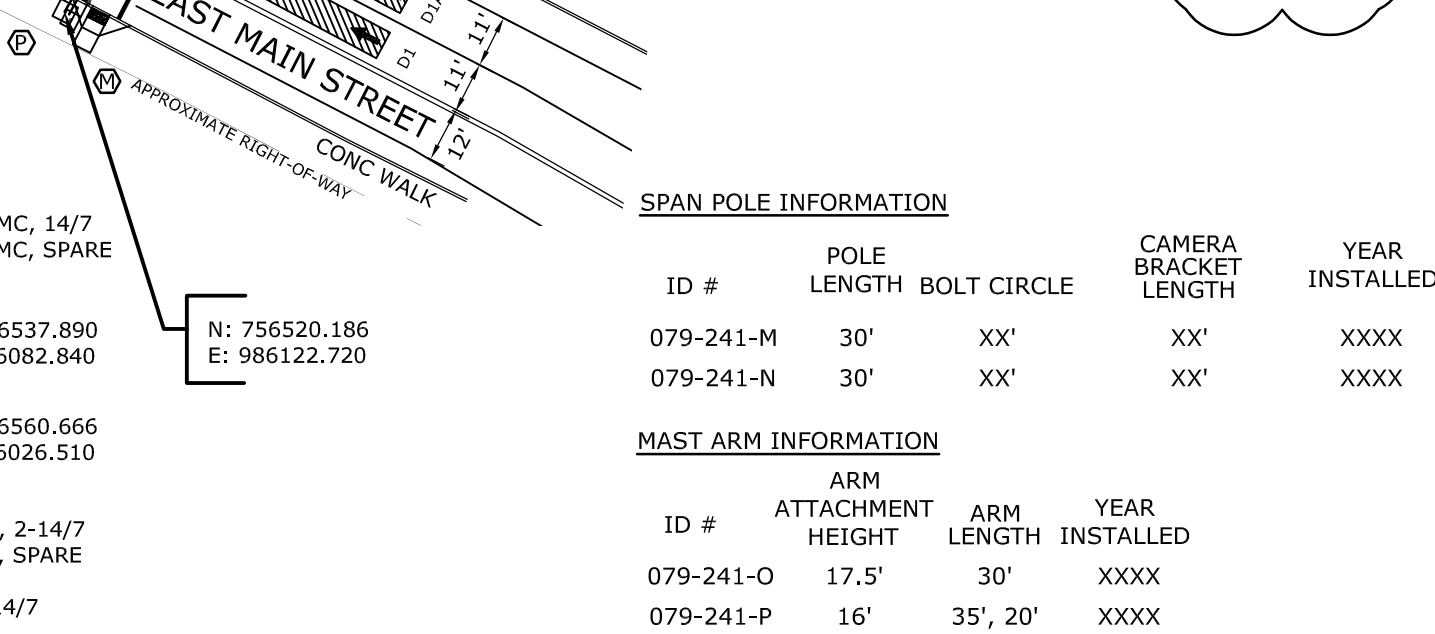
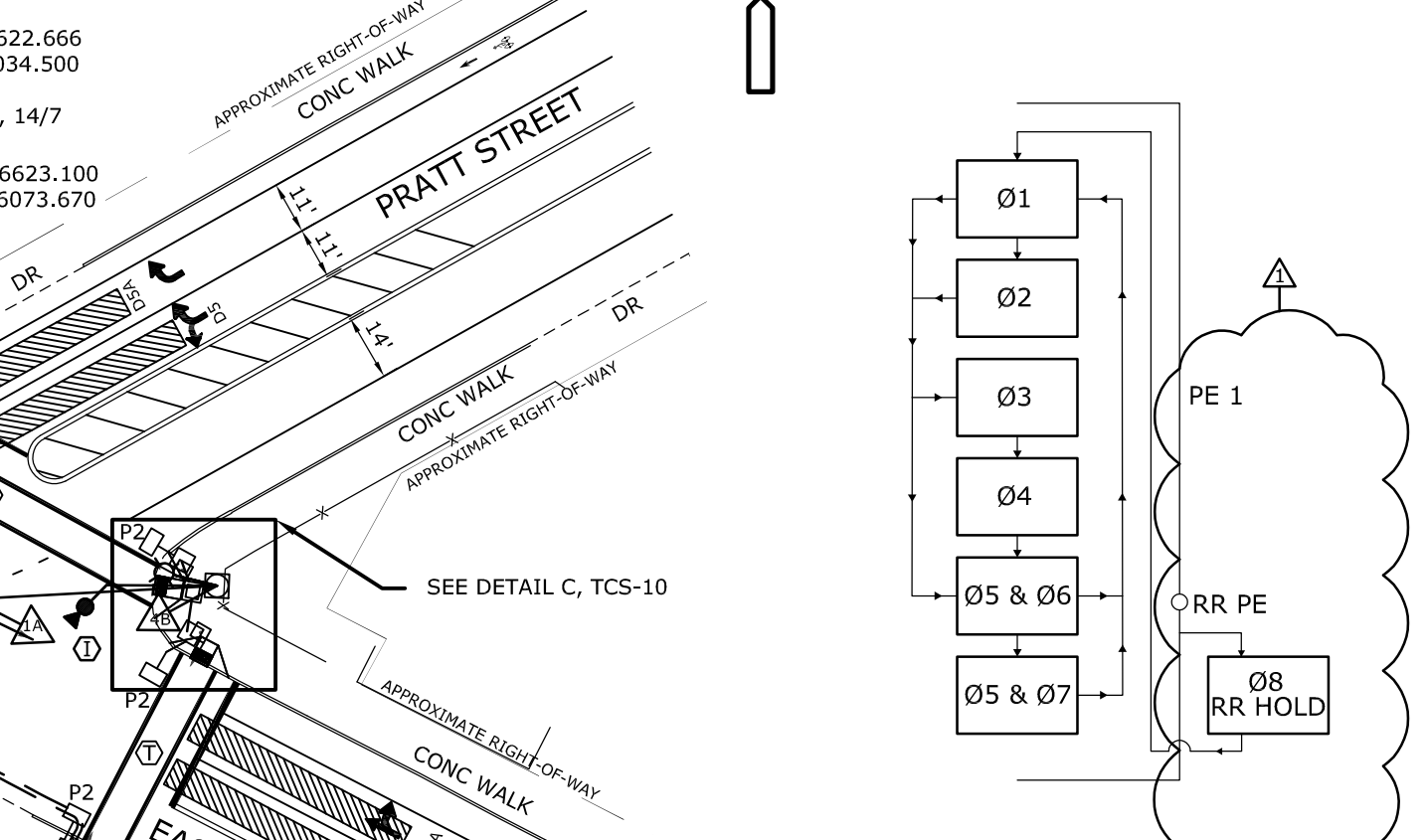
WHEN A PRE-EMPTION CALL IS RECEIVED DURING NORMAL OPERATION OR MANUAL OPERATION, RAILROAD FLASHING LIGHTS WILL COMMENCE OPERATION IMMEDIATELY (SIMULTANEOUS RAILROAD PRE-EMPTION) INTO PHASE 2 DEPENDING UPON WHAT INTERVAL CONTROLLER IS IN WHEN RAILROAD PRE-EMPTION CALL IS RECEIVED. WHEN PRE-EMPTION OCCURS DURING EMERGENCY FLASHING FAIL-SAFE/ EMERGENCY FLASHING OPERATION, RAILROAD FLASHING LIGHTS WILL COMMENCE OPERATION IMMEDIATELY (SIMULTANEOUS RAILROAD PRE-EMPTION) AFTER THE RAILROAD PRE-EMPTION CALL IS RECEIVED.

**RAILROAD OPERATIONAL NOTES**  
**RAILROAD PRE-EMPTION (NORMAL OPERATION)**

- TRAIN ENTERS TRACK CIRCUIT, RAILROAD PROVIDES IMMEDIATE PRE-EMPTION CIRCUIT TO THE TRAFFIC SIGNAL CONTROLLER CABINET.
- THE TRAFFIC SIGNAL CONTROLLER IMMEDIATELY ADVANCES THE SEQUENCE TO THE RR HOLD PHASE (PHASE 8) VIA THE PROPER YELLOW AND RED CLEARANCE INTERVALS.
- THE TRAFFIC SIGNAL CONTROLLER WILL HOLD IN THE RR HOLD PHASE (PHASE 8).
- THE RAILROAD FLASHING LIGHTS AND BELL(S) WILL COMMENCE IMMEDIATELY AFTER THE PRE-EMPTION CALL IS RECEIVED. STANDARD RAILROAD TIMING FOR LIGHTS, BELL(S), AND GATES WILL COMMENCE OPERATION A MINIMUM OF 29 SECONDS PRIOR TO THE TRAIN ENTERING THE CROSSING.
- WHEN THE TRAIN HAS LEFT THE CROSSING AND THE TRACK CIRCUIT, THE RAILROAD DEVICES AND THE TRAFFIC CONTROL SIGNAL SHALL RETURN TO NORMAL OPERATION, PHASE 2.

**RAILROAD PRE-EMPTION (FROM FAIL-SAFE/EMERGENCY FLASHING OPERATION)**

- TRAIN ENTERS TRACK CIRCUIT, RAILROAD PROVIDES IMMEDIATE PRE-EMPTION CIRCUIT TO THE TRAFFIC SIGNAL CONTROLLER CABINET.
- THE TRAFFIC SIGNAL IMMEDIATELY CHANGES FROM AN ALL RED FLASHING OPERATION TO A STEADY RED ON SIGNAL FACES 3, 4A, AND 4B, AND REMAIN FLASHING RED ON SIGNAL FACE 5.
- THE RAILROAD FLASHING LIGHTS, AND BELL(S) WILL COMMENCE OPERATION IMMEDIATELY AFTER PRE-EMPTION CALL IS RECEIVED. STANDARD RAILROAD TIMINGS FOR LIGHT(S), BELL(S), AND GATES WILL COMMENCE OPERATION A MINIMUM OF 29 SECONDS PRIOR TO THE TRAIN ENTERING THE CROSSING.
- WHEN THE TRAIN HAS LEFT THE CROSSING AND THE TRACK CIRCUIT, THE RAILROAD DEVICES WILL DEACTIVATE AND THE TRAFFIC CONTROL SIGNAL SHALL RETURN TO FAIL-SAFE/ EMERGENCY ALL-RED FLASHING OPERATION.



**CITY SIGNAL**

ENGINEER	TRAFFIC DESIGN	ELECTRICAL DESIGN
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE		

**REV #**      **Intersection #**

ENERGY BY - CITY      ADDRESS #

MAINT LEVEL - 24 HR      SERVICE POLE - UNDERGROUND

SERVICE TYPE - UNMETERED

TOWN: **MERIDEN**

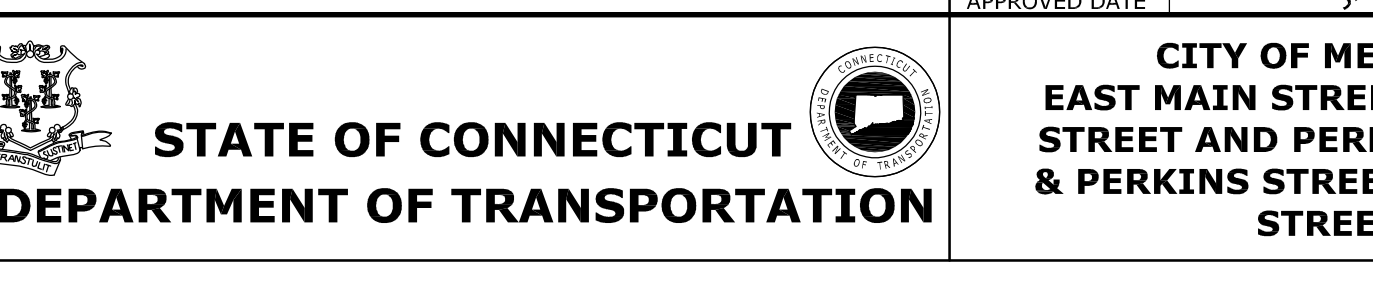
DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

PROJECT NO.: 0079-0241

DRAWING NO.: TCS-09

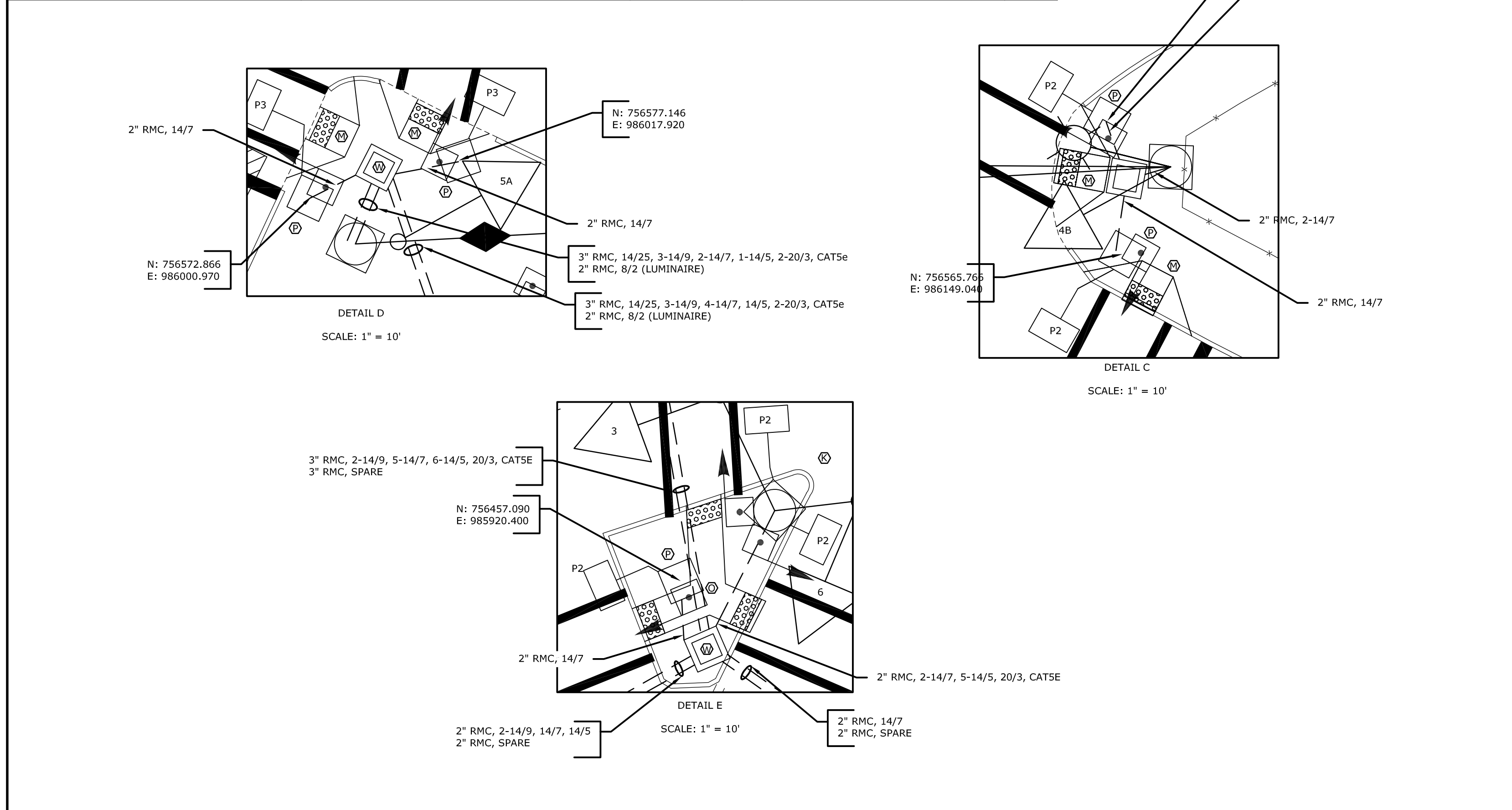
SHEET NO.: **42**

SCALE 1" = 40'

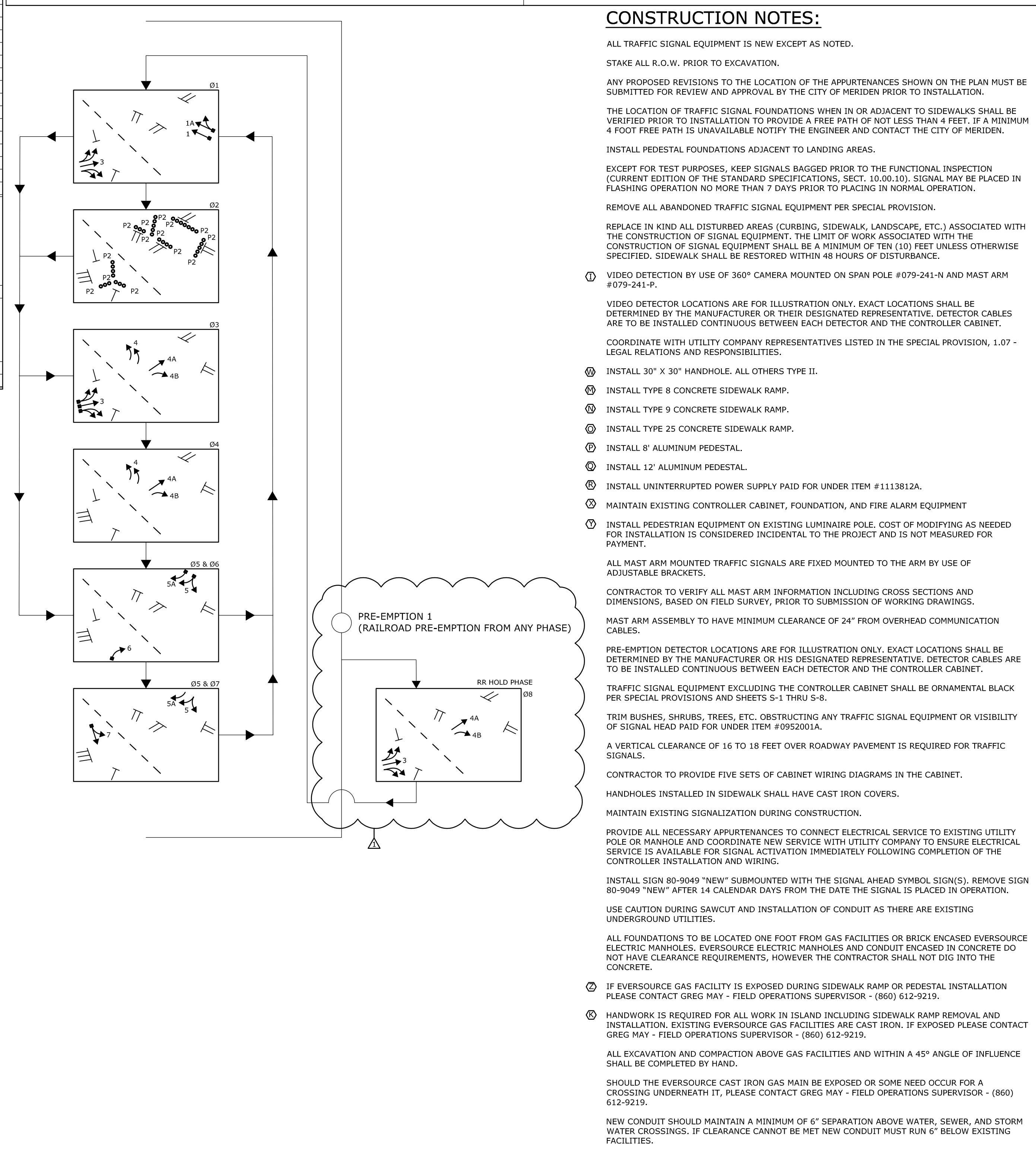


MOVEMENT DIAGRAM																																
NTOR	PHASE 1				PHASE 2				PHASE 3				PHASE 4				PHASE 5				PHASE 6				PHASE 7				PHASE 8			
	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	
F A C E #	<h1>SEE TCS-09</h1>																															

DETECTORS		SYSTEM LOC	COORDINATION TYPE:													PERMIS PERIOD					
IDENT	SIZE (WXL)	TYPE	MODE	MASTER	FUNCTION	PROGRAM TIME	DAYS	CYCLE	OFFSET SEC	%	PHASE SPLITS								SEC / %	Ø	SEC
					FLASH	NONE					Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø		
					MAX 1																
					MAX 2																
					PATTERN 1																
					PATTERN 2																



TECHNICAL NOTES	REV #	OFFICE RECORD
		TIR # _____ SM # _____ SIGNAL REVISED: _____



	<b>LEGEND:</b> R, Y, G RED, YEL, GRN RED ARROW ← GREEN ARROW W/P WALK/ PED. CLR D.W. DON'T WALK FL. FLASHING	○ PROPOSED WOOD SPAN POLE ● EXISTING WOOD SPAN POLE ○ PROPOSED STEEL SPAN POLE ● EXISTING STEEL SPAN POLE ○ PROPOSED UTILITY POLE ● EXISTING UTILITY POLE □ PEDESTAL MOUNTING □ PEDESTRIAN PUSH BUTTON & SIGN □ DIRECTIONAL ARW. FOR PUSH BUTTON	□ TRAFFIC SIGNAL FACE □ PEDESTRIAN SIGNAL FACE DET. LEADS IN SAW CUT --- PROPOSED RMC (RIGID METAL CONDUIT) --- EXISTING RMC (RIGID METAL CONDUIT) □ AUXILIARY TERMINATION CABINET □ AUXILIARY EQUIPMENT CABINET □ VIDEO DETECTION ZONE	□ PROPOSED CONTROLLER ● EXISTING CONTROLLER □ LOOP DETECTOR □ SD SYSTEM DETECTOR ● MAGNETIC DETECTOR ● OPTICAL DETECTOR □ VIDEO DETECTOR ● AUDIO DETECTOR	VC VIDEO CAMERA CABLE ● CABLE CLOSURE □ WIRELESS SENSOR □ WIRELESS RECEIVER □ WIRELESS TRANSMITTER --- GUY WIRE □ PROPOSED HANDHOLE ● EXISTING HANDHOLE	<b>ENGINEER</b> DRAWN BY CHECKED BY SUBMITTED BY APPROVED BY APPROVED DATE	TRAFFIC DESIGN ELECTRICAL DESIGN	<b>REV #</b> <b>Intersection #</b>
						ENERGY BY - MAINT LEVEL -	ADDRESS # SERVICE POLE - SERVICE TYPE -	

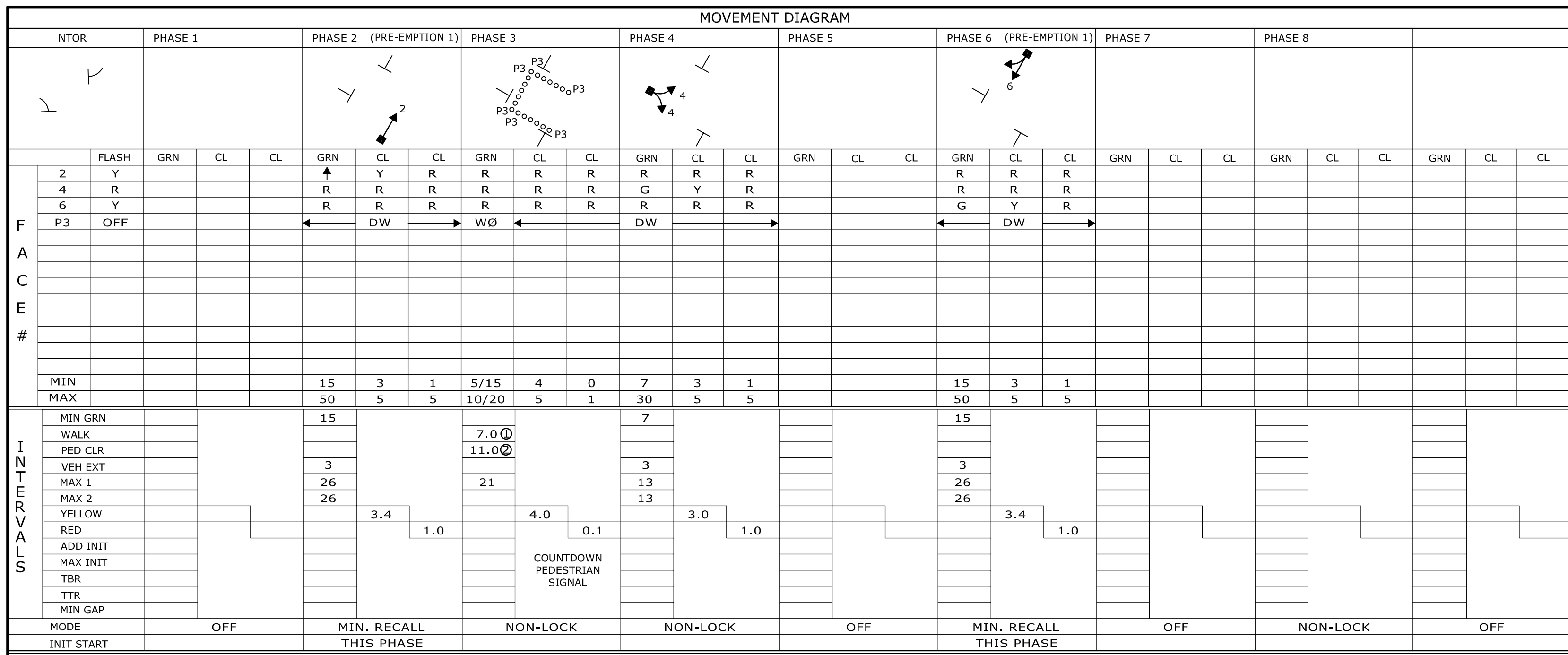
**STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION**

**CITY OF MERIDEN**  
**EAST MAIN STREET AT PRATT STREET AND PERKINS STREET & PERKINS STREET AT CROWN STREET (CONTINUED)**

TOWN: **MERIDEN**  
 PROJECT NO.: **0079-0241**  
 DRAWING NO.: **TCS-10**  
 SHEET NO.: **43**

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**  
 SCALE 1" = 40'

APPROVED BY: *CDM SMITH INC. JANUARY 2021*

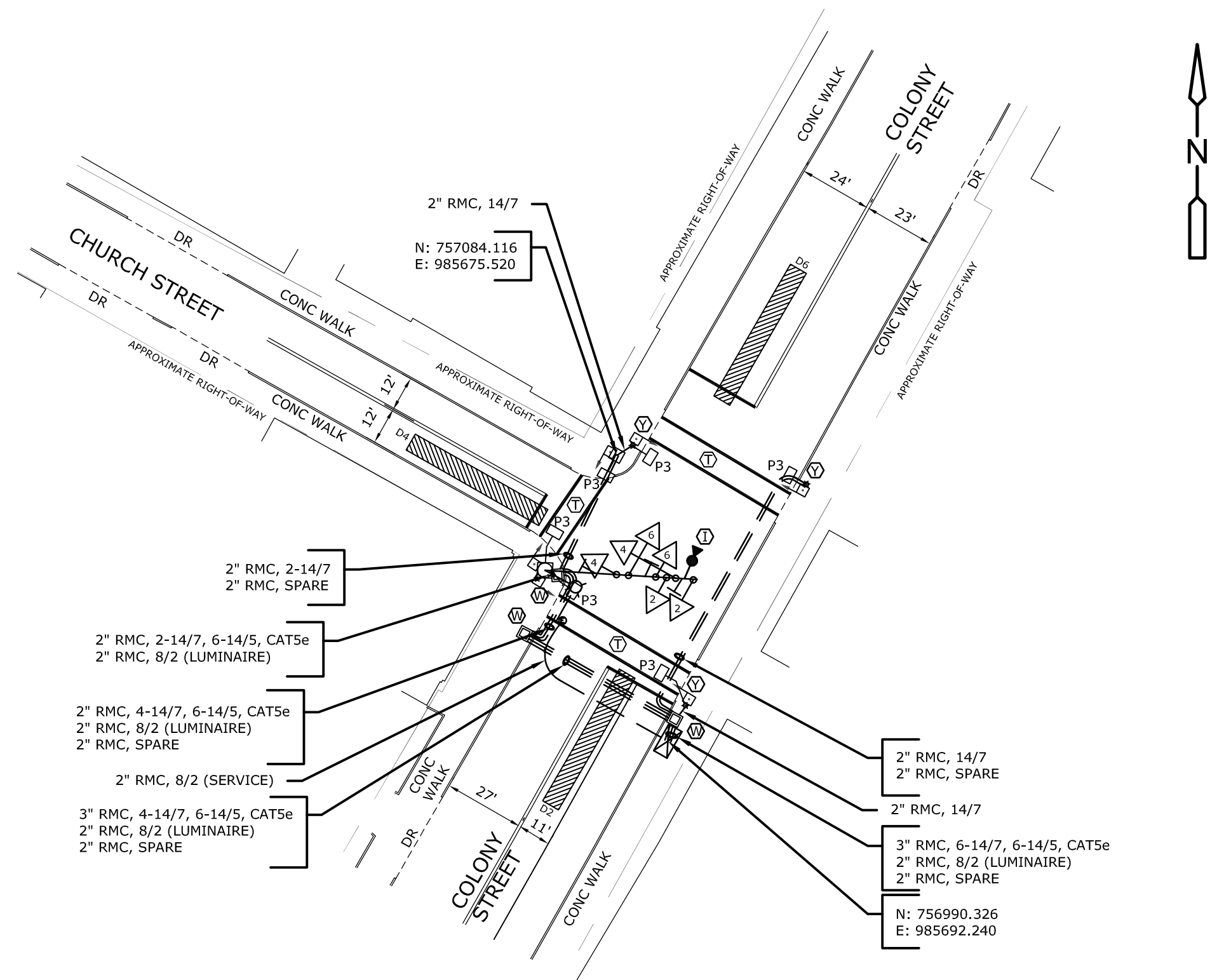


IDNT	SIZE (WXL)	TYPE	MODE	SYSTEM LOC	MASTER	COORDINATION TYPE: NONE										PERMIS PERIOD										
						FUNCTION	PROGRAM	TIME	DAYS	CYCLE	OFFSET	PHASE SPLITS					SEC / %									
D2	6' X 50'	360 VIDEO	PRESENCE			FLASH	NONE																			
D4	6' X 50'	360 VIDEO	PRESENCE			MAX 1	1100-1900	M-SA																		
D6	6' X 50'	360 VIDEO	PRESENCE			MAX 2	ALL OTHER TIMES																			

TECHNICAL NOTES		OFFICE RECORD	
MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CHANGE INTERVAL. PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.		REV #	TIR #
TIMINGS SHOWN REFLECT FREE OPERATION. ACTUAL COORDINATION INFORMATION TO BE DETERMINED BY THE CLOSED LOOP LOCAL COORDINATION UNIT. ARTERY PHASE DETECTION AREAS TO BE NON-ACTUATING DURING COORDINATION.		SIGNAL REVISED	SM #
① PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL.		NORMAL	0.150 kW 730 h/mo 109.5 kWh/mo
② COUNTDOWN ONLY DURING PEDESTRIAN CHANGE INTERVAL.		FLASH	0.047 kW 0 h/mo 0.0 kWh/mo

**SIGNING AND PAVEMENT MARKING NOTES:**  
 CITY TO MAINTAIN PAVEMENT MARKINGS AND SIGNS.  
 SEE SEPARATE PLAN FOR PAVEMENT MARKINGS AND SIGNING.  
 SEE SEPARATE PLAN FOR MAST ARM CROSS-SECTIONS.  
 ① BAR TYPE CROSSWALK (16" X 24" X 8' MIN.) TOWN MAINTAINED.

- SIGN LEGEND:**
- Ⓐ INSTALL MAST ARM MOUNT 31-1603Z (24"X24").
  - Ⓑ INSTALL MAST ARM MOUNT 31-0816Z (36"X36").

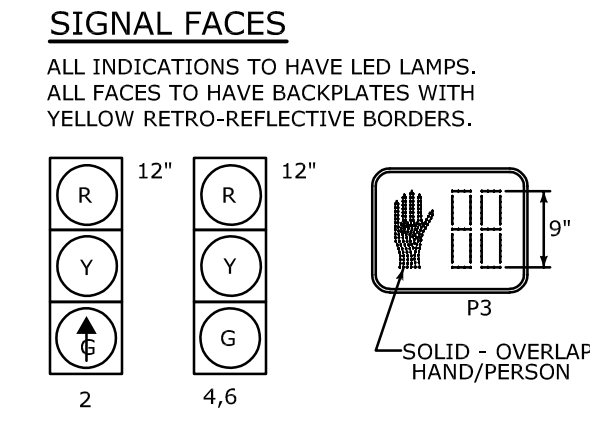


**MAST ARM INFORMATION**

ARM ID #	ATTACHMENT HEIGHT	ARM LENGTH	YEAR INSTALLED
079-241-Q	16.5'	50'	XXXX

**PRE-EMPTION SETTINGS**

	PRE-EMPT 1
PRIORITY	YES
DET. LOCK	YES
DELAY	0
ALT. MIN. GRN	5
ALT. YELLOW	PARENT
ALT. RED	PARENT
ALT. PED. CLR.	11.0
HOLD GREEN	15
HOLD YELLOW	3.4
HOLD RED	1.0
HOLD PHASE	2, 6
EXIT PHASE	4
EXIT CALL	NONE



**CONSTRUCTION NOTES:**

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF MERIDEN PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FEET. IF A MINIMUM 4 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE CITY OF MERIDEN.

INSTALL PEDESTAL FOUNDATIONS ADJACENT TO LANDING AREAS.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.

REPLACE IN KIND ALL DISTURBED AREAS (CURBING, SIDEWALK, LANDSCAPE, ETC.) ASSOCIATED WITH THE CONSTRUCTION OF SIGNAL EQUIPMENT. THE LIMIT OF WORK ASSOCIATED WITH THE CONSTRUCTION OF SIGNAL EQUIPMENT SHALL BE A MINIMUM OF TEN (10) FEET UNLESS OTHERWISE SPECIFIED. SIDEWALK SHALL BE RESTORED WITHIN 48 HOURS OF DISTURBANCE.

① VIDEO DETECTION BY USE OF 360° CAMERA MOUNTED ON MAST ARM #079-241-Q.

VIDEO DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE CONTROLLER CABINET.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

② INSTALL 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

③ INSTALL PEDESTRIAN EQUIPMENT ON EXISTING LUMINAIRE POLE. COST OF MODIFYING AS NEEDED FOR INSTALLATION IS CONSIDERED INCIDENTAL TO THE PROJECT AND IS NOT MEASURED FOR PAYMENT.

ALL MAST ARM MOUNTED TRAFFIC SIGNALS ARE FIXED MOUNTED TO THE ARM BY USE OF ADJUSTABLE BRACKETS.

CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS.

MAST ARM ASSEMBLY TO HAVE MINIMUM CLEARANCE OF 24" FROM OVERHEAD COMMUNICATION CABLES.

PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR HIS DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE CONTROLLER CABINET.

TRAFFIC SIGNAL EQUIPMENT EXCLUDING THE CONTROLLER CABINET SHALL BE ORNAMENTAL BLACK PER SPECIAL PROVISIONS AND SHEETS S-1 THRU S-8.

TRIM BUSHES, SHRUBS, TREES, ETC. OBSTRUCTING ANY TRAFFIC SIGNAL EQUIPMENT OR VISIBILITY OF SIGNAL HEAD PAID FOR UNDER ITEM #0952001A.

A VERTICAL CLEARANCE OF 16 TO 18 FEET OVER ROADWAY PAVEMENT IS REQUIRED FOR TRAFFIC SIGNALS.

CONTRACTOR TO PROVIDE FIVE SETS OF CABINET WIRING DIAGRAMS IN THE CABINET.

HANDHOLES INSTALLED IN SIDEWALK SHALL HAVE CAST IRON COVERS.

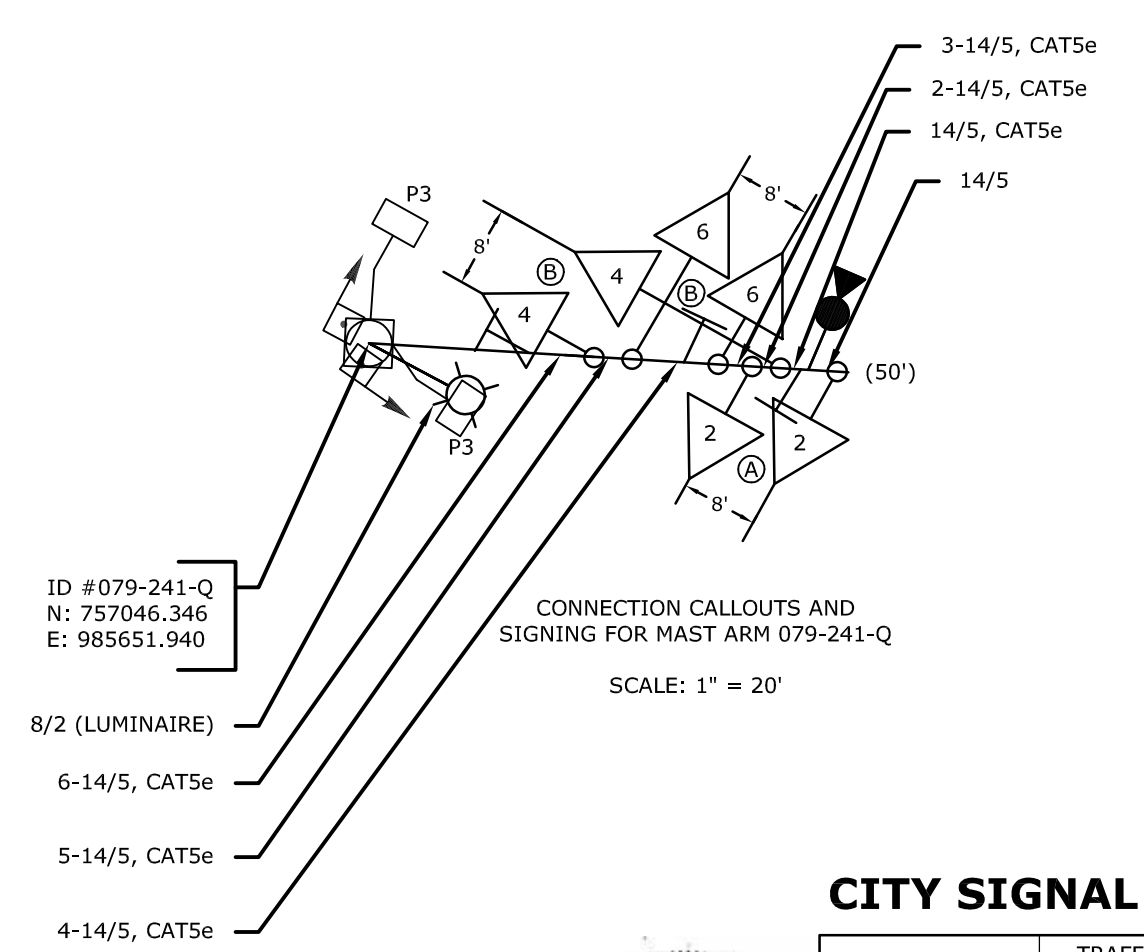
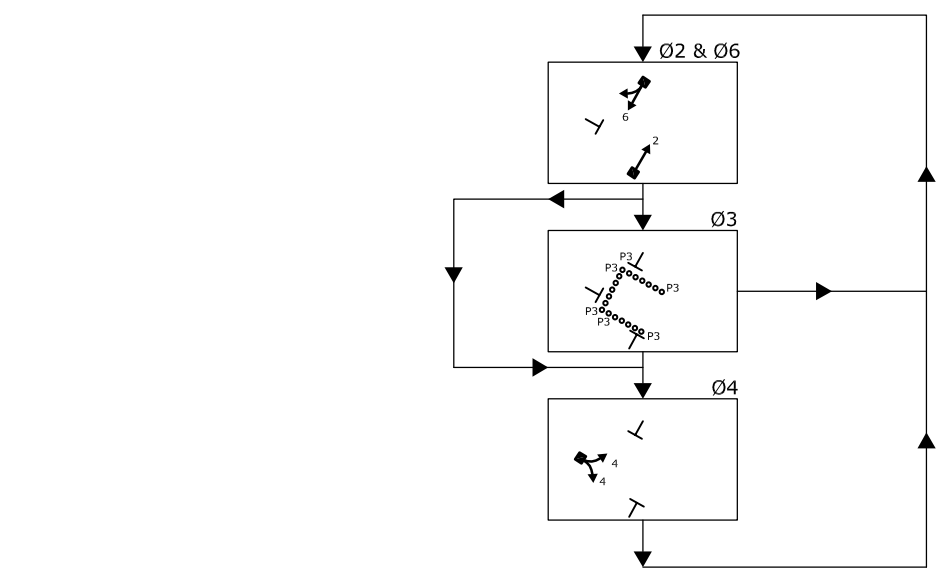
MAINTAIN EXISTING SIGNALIZATION DURING CONSTRUCTION.

PROVIDE ALL NECESSARY APPURTENANCES TO CONNECT ELECTRICAL SERVICE TO EXISTING UTILITY POLE OR MANHOLE AND COORDINATE NEW SERVICE WITH UTILITY COMPANY TO ENSURE ELECTRICAL SERVICE IS AVAILABLE FOR SIGNAL ACTIVATION IMMEDIATELY FOLLOWING COMPLETION OF THE CONTROLLER INSTALLATION AND WIRING.

ALL EXCAVATION AND COMPACTION ABOVE GAS FACILITIES AND WITHIN A 45° ANGLE OF INFLUENCE SHALL BE COMPLETED BY HAND.

SHOULD THE EVERSOURCE CAST IRON GAS MAIN BE EXPOSED OR SOME NEED OCCUR FOR A CROSSING UNDERNEATH IT, PLEASE CONTACT GREG MAY - FIELD OPERATIONS SUPERVISOR - (860) 612-9219.

NEW CONDUIT SHOULD MAINTAIN A MINIMUM OF 6" SEPARATION ABOVE WATER, SEWER, AND STORM WATER CROSSINGS. IF CLEARANCE CANNOT BE MET NEW CONDUIT MUST RUN 6" BELOW EXISTING FACILITIES.



**CITY SIGNAL**

	TRAFFIC DESIGN	ELECTRICAL DESIGN
ENGINEER		
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE		

**ALTERNATE C**

REV #	Intersection #
ENERGY BY - CITY	ADDRESS #
MAINT LEVEL - NORMAL	SERVICE POLE - UNDERGROUND
	SERVICE TYPE - UNMETERED

**LEGEND:**

R, Y, G RED, YEL, GRN	○ PROPOSED WOOD SPAN POLE	□ TRAFFIC SIGNAL FACE	□ PROPOSED CONTROLLER	VC VIDEO CAMERA CABLE
← RED ARROW	● EXISTING WOOD SPAN POLE	□ PEDESTRIAN SIGNAL FACE	□ EXISTING CONTROLLER	◆ CABLE CLOSURE
← GREEN ARROW	○ PROPOSED STEEL SPAN POLE	□ DET. LEADS IN SAW CUT	□ LOOP DETECTOR	□ WIRELESS SENSOR
← WALK/ PED. CLR	○ EXISTING STEEL SPAN POLE	□ PROPOSED RMC (RIGID METAL CONDUIT)	□ SYSTEM DETECTOR	□ WIRELESS TRANSMITTER
D.W. DON'T WALK	○ PROPOSED UTILITY POLE	□ EXISTING RMC (RIGID METAL CONDUIT)	□ MAGNETIC DETECTOR	□ GUY WIRE
FL. FLASHING	○ EXISTING UTILITY POLE	□ AUXILIARY TERMINATION CABINET	□ OPTICAL DETECTOR	□ PROPOSED HANDHOLE
	□ PEDESTAL MOUNTING	□ AUXILIARY EQUIPMENT CABINET	□ VIDEO DETECTOR	□ EXISTING HANDHOLE
	□ DIRECTIONAL ARW. FOR PUSH BUTTON	□ VIDEO DETECTION ZONE	□ AUDIO DETECTOR	

DATE PLOTTED : \$DATE\$ \$FILE\$

**STATE OF CONNECTICUT**  
DEPARTMENT OF TRANSPORTATION

CITY OF MERIDEN  
COLONY STREET AT CHURCH STREET

TOWN: **MERIDEN**

PROJECT NO.: 0079-0241  
DRAWING NO.: TCS-11  
SHEET NO.: **44**

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

SCALE 1" = 40'

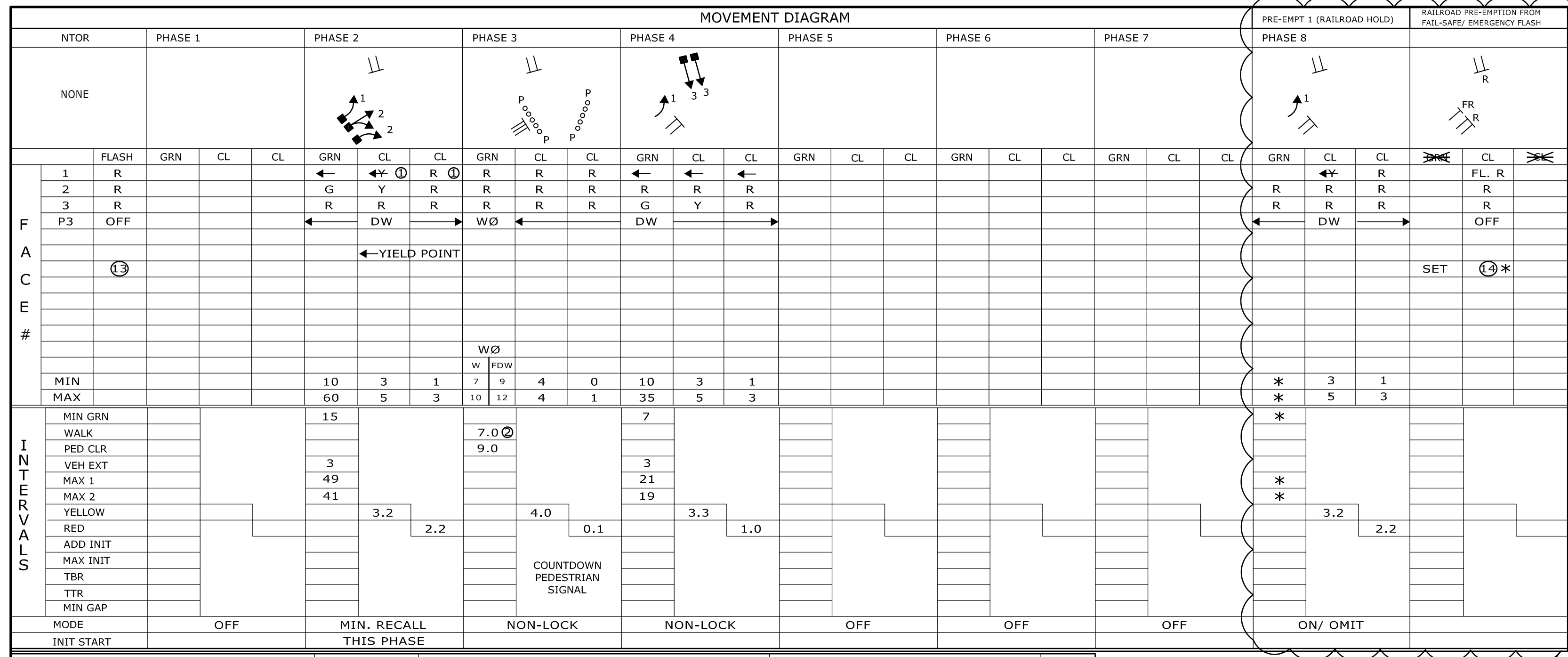






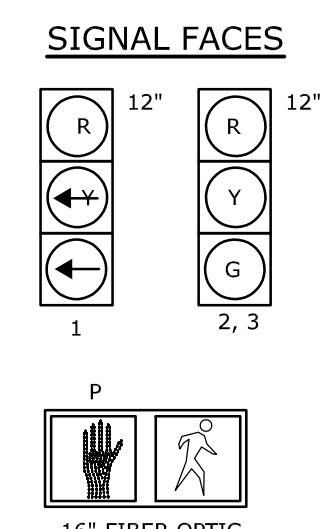






INTERVALS	MIN		MAX	
	GRN	WALK	GRN	WALK
MIN GRN	15		10	3
WALK			3	5
PED CLR			7.0	9.0
VEH EXT	3			
MAX 1	49			
MAX 2	41			
YELLOW		3.2		
RED				2.2
ADD INIT				
MAX INIT				
TBR				
TR				
MIN GAP				

DETECTORS	SYSTEM LOC	COORDINATION TYPE: HARD WIRE		PERMIS PERIOD
		FUNCTION	TIME	
IDENT	SIZE (WXL)	TYPE	MODE	



### TECHNICAL NOTES

- TO BE - IF PHASE 3 IS SKIPPED AND PHASE 4 IS NEXT.
- PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL.
- MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CHANGE INTERVAL.
- TIMINGS SHOWN REFLECT FREE OPERATION.
- ACTUAL COORDINATION INFORMATION TO BE DETERMINED BY THE CLOSED LOOP LOCAL COORDINATION UNIT.
- ARTERY PHASE DETECTION AREAS TO BE NON-ACTUATING DURING COORDINATION.
- CONTROLLER SHALL IMMEDIATELY ADVANCE OUT OF ANY GREEN, INCLUDING MIN. GREEN, INTO CLEARANCE INTERVALS GOING TO RAILROAD PREEMPTION, AND THEN GO DIRECTLY TO RAILROAD HOLD PHASE (PHASE 8).
- WHEN RAILROAD PRE-EMPTION OCCURS DURING THE CLEARANCE INTERVAL OF ANY PHASE, THE CONTROLLER WILL DROP THE NEXT PHASE CALL, FINISH TIMING OF THE CLEARANCE INTERVALS GOING TO RAILROAD PREEMPTION, AND THEN GO DIRECTLY TO RAILROAD HOLD PHASE (PHASE 8).
- PEDESTRIAN TIMING TO IMMEDIATELY ADVANCE OUT OF WALK AND PEDESTRIAN CLEARANCE INTERVAL TIMINGS, INTO CLEARANCE INTERVALS GOING TO RAILROAD PRE-EMPTION, THEN GO DIRECTLY TO RAILROAD HOLD PHASE (PHASE 8).
- CONTROLLER TO RETURN TO PHASE 2 AFTER RAILROAD PRE-EMPTION.
- POLICE BOX MANUAL SHALL BE ABLE TO BE PRE-EMPTED BY THE RAILROAD CIRCUIT. THE POLICE BOX MANUAL CONTROL SHALL REMAIN INOPERATIVE FROM THE TIME A PRE-EMPTION CALL IS RECEIVED UNTIL CONTROLLED LEAVES THE RAILROAD HOLD PHASE (PHASE 8) AND RETURNS TO PHASE 2 GREEN.
- ANY CHANGE IN THE CLEARANCE INTERVALS DENOTED ON THIS PLAN MAY REQUIRE A MODIFICATION OF THE RAILROAD CIRCUIT.
- FLASH OPERATION TO REVERT TO "RAILROAD PRE-EMPTION FROM FAIL-SAFE/ EMERGENCY FLASHING OPERATION" UPON RECEIPT OF PRE-EMPTION CALL.
- RAILROAD DEVICES TO ACTIVATE IMMEDIATELY AFTER RAILROAD PRE-EMPTION CALL.
- TRAFFIC SIGNAL SHALL NOT BE PLACED ON PROGRAMMED FLASHING OPERATION.
- \* INTERVAL TO BE DETERMINED BY PRESENCE OF TRAIN.

### RAILROAD PRE-EMPTION

TIME	EVENT
0"	START OF TRAFFIC SIGNAL PRE-EMPTION
0"	START OF RAILROAD FLASHING AND BELLS
7"	RAILROAD GATES START TO DROP
17"	RAILROAD GATES HORIZONTAL
29"	TRAIN ENTERS THE CROSSING

### RAILROAD PRE-EMPTION NOTE:

WHEN A PRE-EMPTION CALL IS RECEIVED DURING NORMAL OPERATION OR MANUAL OPERATION, RAILROAD FLASHING LIGHTS WILL COMMENCE OPERATION IMMEDIATELY (SIMULTANEOUS RAILROAD PRE-EMPTION). WHEN PRE-EMPTION OCCURS DURING FLASHING FAIL-SAFE/ EMERGENCY FLASHING OPERATION, RAILROAD FLASHING LIGHTS WILL COMMENCE OPERATION IMMEDIATELY (SIMULTANEOUS RAILROAD PRE-EMPTION) AFTER THE RAILROAD PRE-EMPTION CALL IS RECEIVED.

### RAILROAD OPERATIONAL NOTES

#### RAILROAD PRE-EMPTION (NORMAL OPERATION)

- TRAIN ENTERS TRACK CIRCUIT, RAILROAD PROVIDES IMMEDIATE PRE-EMPTION CIRCUIT TO THE TRAFFIC SIGNAL CONTROLLER CABINET.
- THE TRAFFIC SIGNAL CONTROLLER IMMEDIATELY ADVANCES THE SEQUENCE TO THE RR HOLD PHASE (PHASE 8) VIA THE PROPER YELLOW AND RED CLEARANCE INTERVALS.
- THE TRAFFIC SIGNAL CONTROLLER WILL HOLD IN THE RR HOLD PHASE (PHASE 8).
- THE RAILROAD FLASHING LIGHTS AND BELL(S) WILL COMMENCE IMMEDIATELY AFTER THE PRE-EMPTION CALL IS RECEIVED. STANDARD RAILROAD TIMING FOR LIGHTS, BELL(S), AND GATES WILL COMMENCE OPERATION A MINIMUM OF 29 SECONDS PRIOR TO THE TRAIN ENTERING THE CROSSING.
- WHEN THE TRAIN HAS LEFT THE CROSSING AND THE TRACK CIRCUIT, THE TRAFFIC CONTROL SIGNAL SHALL RETURN TO NORMAL OPERATION, PHASE 2.

#### RAILROAD PRE-EMPTION (FROM FAIL-SAFE/EMERGENCY FLASHING OPERATION)

- TRAIN ENTERS TRACK CIRCUIT, RAILROAD PROVIDES IMMEDIATE PRE-EMPTION CIRCUIT TO THE TRAFFIC SIGNAL CONTROLLER CABINET.
- THE TRAFFIC SIGNAL IMMEDIATELY CHANGES FROM AN ALL RED FLASHING OPERATION TO A STEADY RED ON SIGNAL FACES 2 AND 4 AND REMAIN FLASHING RED ON SIGNAL FACE 5.
- THE RAILROAD FLASHING LIGHTS, AND BELL(S) WILL COMMENCE OPERATION IMMEDIATELY AFTER THE PRE-EMPTION CALL IS RECEIVED. STANDARD RAILROAD TIMING FOR LIGHTS, BELL(S), AND GATES WILL COMMENCE OPERATION A MINIMUM OF 29 SECONDS PRIOR TO THE TRAIN ENTERING THE CROSSING.
- WHEN THE TRAIN HAS LEFT THE CROSSING AND THE TRACK CIRCUIT, THE RAILROAD DEVICES WILL DEACTIVATE AND THE TRAFFIC CONTROL SIGNAL SHALL RETURN TO FAIL-SAFE/ EMERGENCY ALL-RED FLASHING OPERATION.

### OFFICE RECORD

REV #	TIR #	SM #	SIGNAL REVISED:
NORMAL	0.126	kw 730	h/mo 92.3
FLASH	0.044	kw 0	h/mo 0.0

### CONSTRUCTION NOTES:

ALL TRAFFIC SIGNAL EQUIPMENT AND WIRING IS EXISTING EXCEPT AS NOTED.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF MERIDEN PRIOR TO INSTALLATION.

TRAFFIC SIGNAL EQUIPMENT EXCLUDING THE CONTROLLER CABINET SHALL BE ORNAMENTAL BLACK PER SPECIAL PROVISIONS AND SHEETS S-1 THRU S-8.

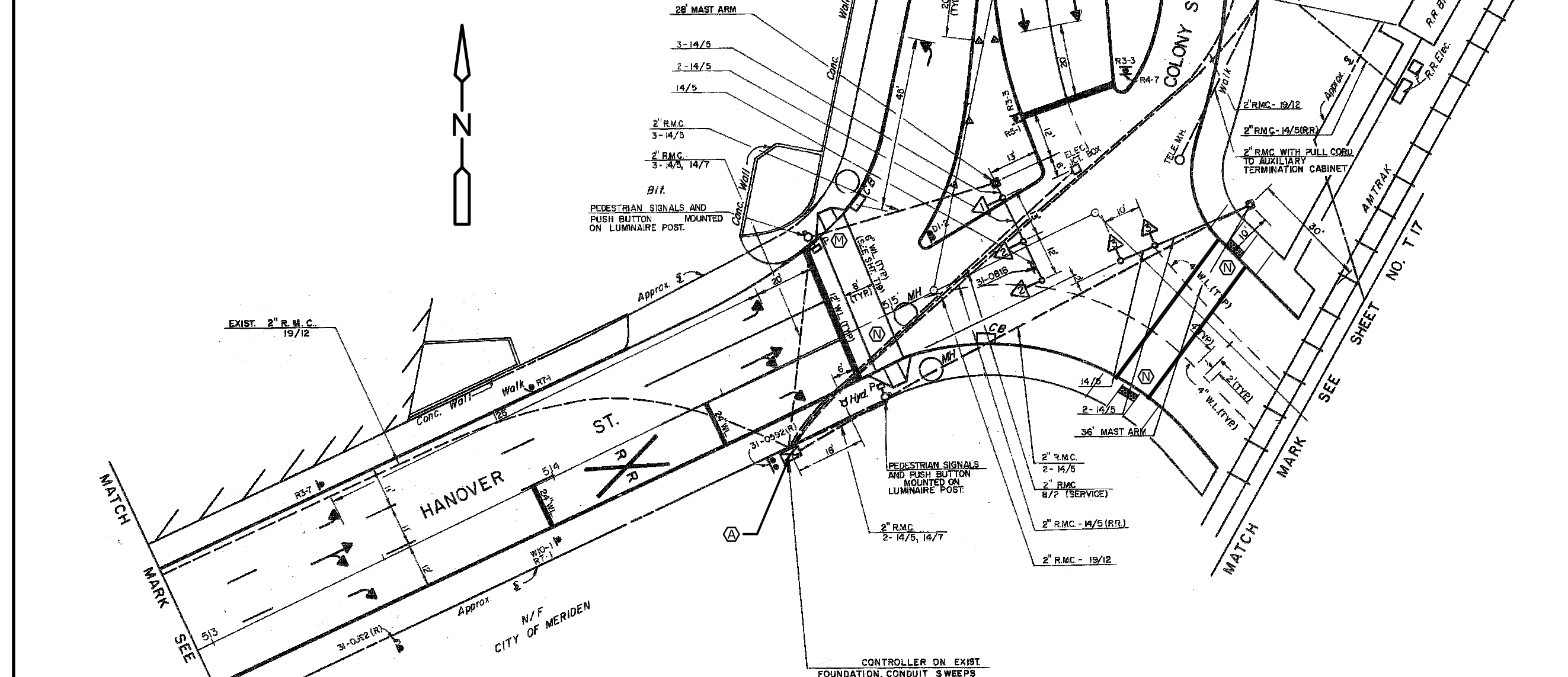
THE LOCATION OF TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FEET. IF A MINIMUM 4 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE CITY OF MERIDEN.

- INSTALL NEW CONTROLLER, CONTROLLER CABINET, AND CONTROLLER FOUNDATION AND PROVIDE PHASING AND TIMING SHOWN. REMOVE EXISTING CONTROLLER, CABINET, AND CONTROLLER FOUNDATION.
- INSTALL TYPE 8 CONCRETE SIDEWALK RAMP.
- INSTALL TYPE 9 CONCRETE SIDEWALK RAMP.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.

REPLACE IN KIND ALL DISTURBED AREAS (CURBING, SIDEWALK, LANDSCAPE, ETC.) ASSOCIATED WITH THE CONSTRUCTION OF SIGNAL EQUIPMENT. THE LIMIT OF WORK ASSOCIATED WITH THE CONSTRUCTION OF SIGNAL EQUIPMENT SHALL BE A MINIMUM OF TEN (10) FEET UNLESS OTHERWISE SPECIFIED. SIDEWALK SHALL BE RESTORED WITHIN 48 HOURS OF DISTURBANCE.

CONTRACTOR TO MAINTAIN EXISTING SIGNALIZATION (INCLUDING R.R. PREEMPTION) AT ALL TIMES. COORDINATE WITH AMTRAK FOR R.R. APPURTENANCE RELOCATIONS.



### LEGEND

RAILROAD PRE-EMPTION DESIGNED BY OTHERS, ENGINEER'S SEAL AND SIGNATURE DO NOT APPLY TO RAILROAD PREEMPTION DESIGN.	PROPOSED WOOD SPAN POLE	TRAFFIC SIGNAL FACE	PROPOSED CONTROLLER	VIDEO CAMERA CABLE
	EXISTING WOOD SPAN POLE	PEDESTRIAN SIGNAL FACE	EXISTING CONTROLLER	CABLE CLOSURE
	PROPOSED STEEL SPAN POLE	DET. LEADS IN SAW CUT	LOOP DETECTOR	WIRELESS SENSOR
	EXISTING STEEL SPAN POLE	EXISTING RMC (RIGID METAL CONDUIT)	SYSTEM DETECTOR	WIRELESS RECEIVER
	PROPOSED UTILITY POLE	EXISTING RMC (RIGID METAL CONDUIT)	MAGNETIC DETECTOR	WIRELESS TRANSMITTER
	GREEN ARROW	AUXILIARY TERMINATION CABINET	OPTICAL DETECTOR	GUY WIRE
	WALK/ PED. CLR	AUXILIARY EQUIPMENT CABINET	VIDEO DETECTOR	PROPOSED HANDHOLE
	D.W. DON'T WALK	PEDESTRIAN SIGNAL AND PUSH BUTTON MOUNTED ON LUMINAIRE POST	AUDIO DETECTOR	EXISTING HANDHOLE
	FL. FLASHING	PEDESTRIAN SIGNAL AND PUSH BUTTON MOUNTED ON LUMINAIRE POST		
		CONTROLLER ON EXIST FOUNDATION, CONDUIT & WIRES WERE INSTALLED UNDER PHASE 2		

### SIGNING AND PAVEMENT MARKING NOTES:

CITY TO MAINTAIN PAVEMENT MARKINGS AND SIGNS.

SEE SEPARATE PLAN FOR PAVEMENT MARKINGS AND SIGNING.

### CITY SIGNAL

ENGINEER	TRAFFIC DESIGN	ELECTRICAL DESIGN
DRAWN BY		
CHECKED BY		
SUBMITTED BY		
APPROVED BY		
APPROVED DATE		

CDM SMITH INC.  
JANUARY 2021

### ALTERNATE E

<b>REV #</b>		<b>Intersection #</b>	
ENERGY BY - CITY		ADDRESS #	
MAINT LEVEL - 24 HR		SERVICE POLE - UNDERGROUND	
SERVICE TYPE - UNMETERED			

TOWN: **MERIDEN**

DRAWING TITLE: **TRAFFIC CONTROL SIGNAL PLAN**

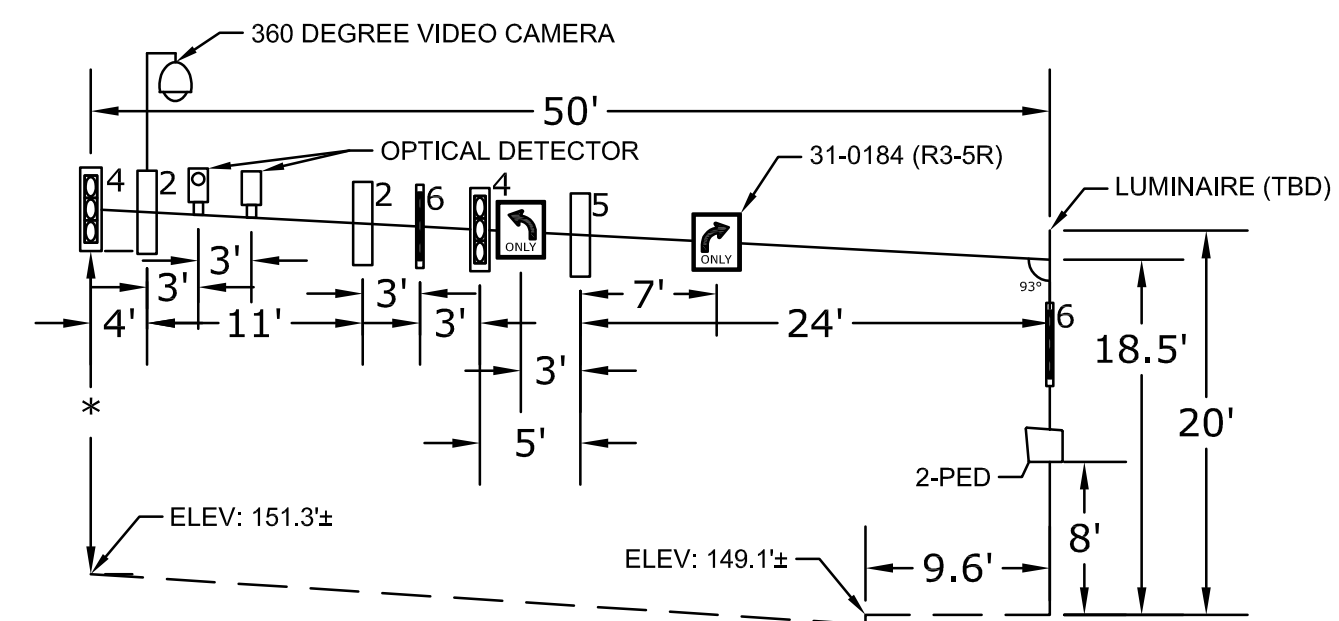
PROJECT NO. 0079-0241

DRAWING NO. TCS-16

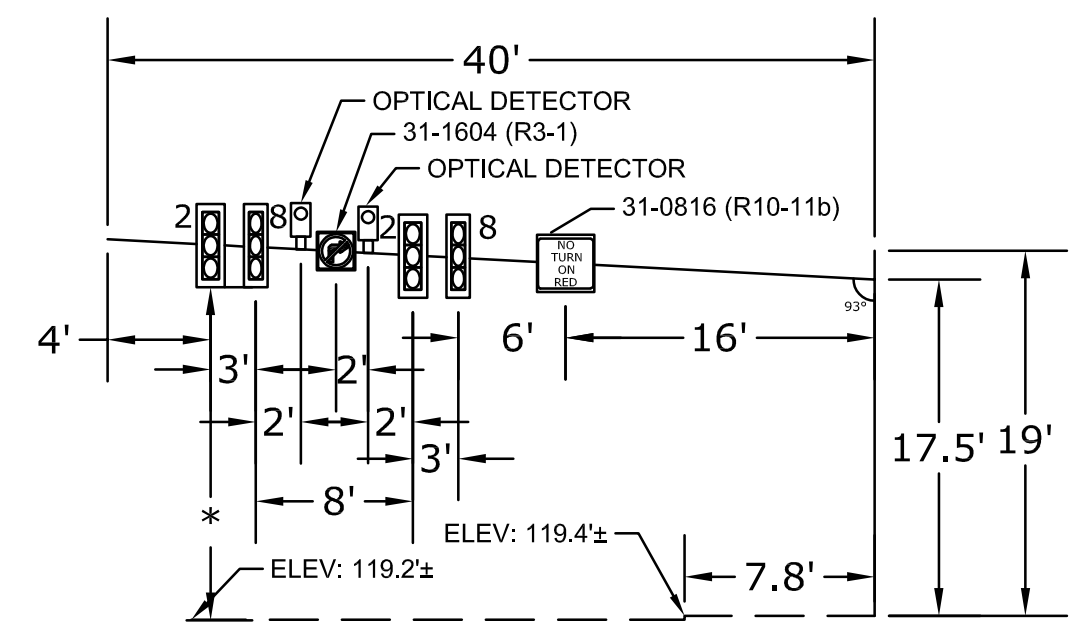
SHEET NO. 49

SCALE 1" = 30'

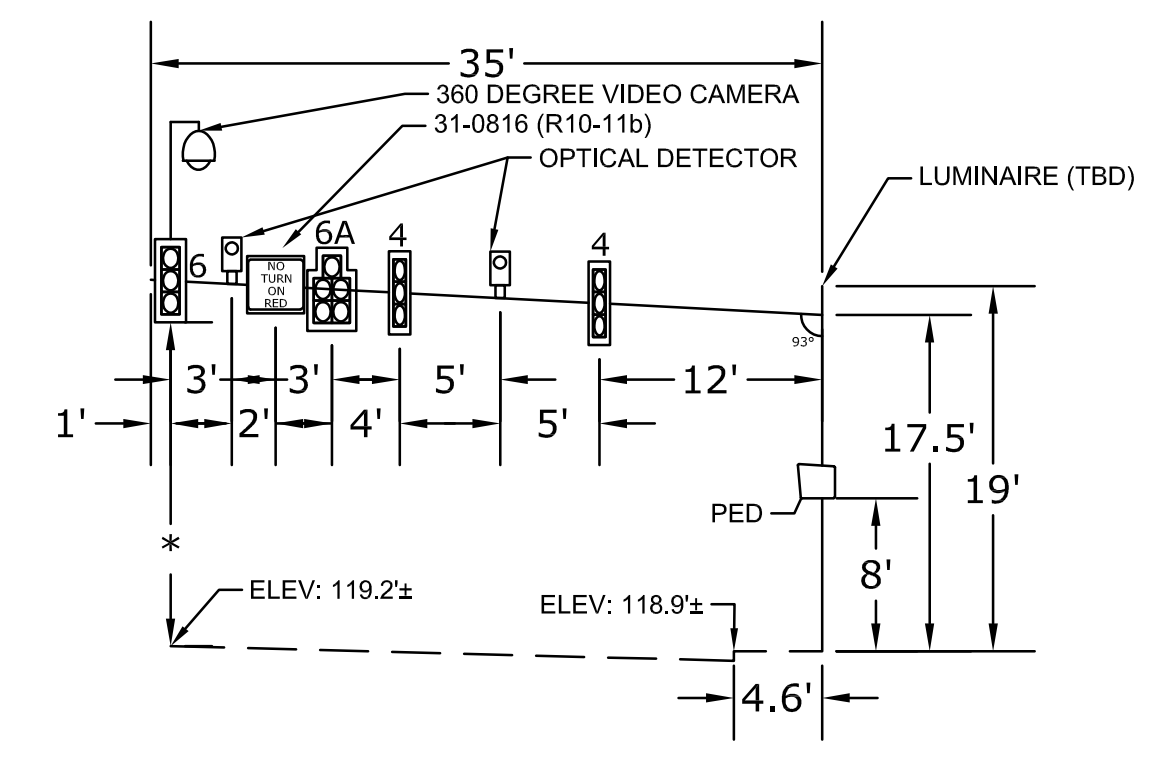




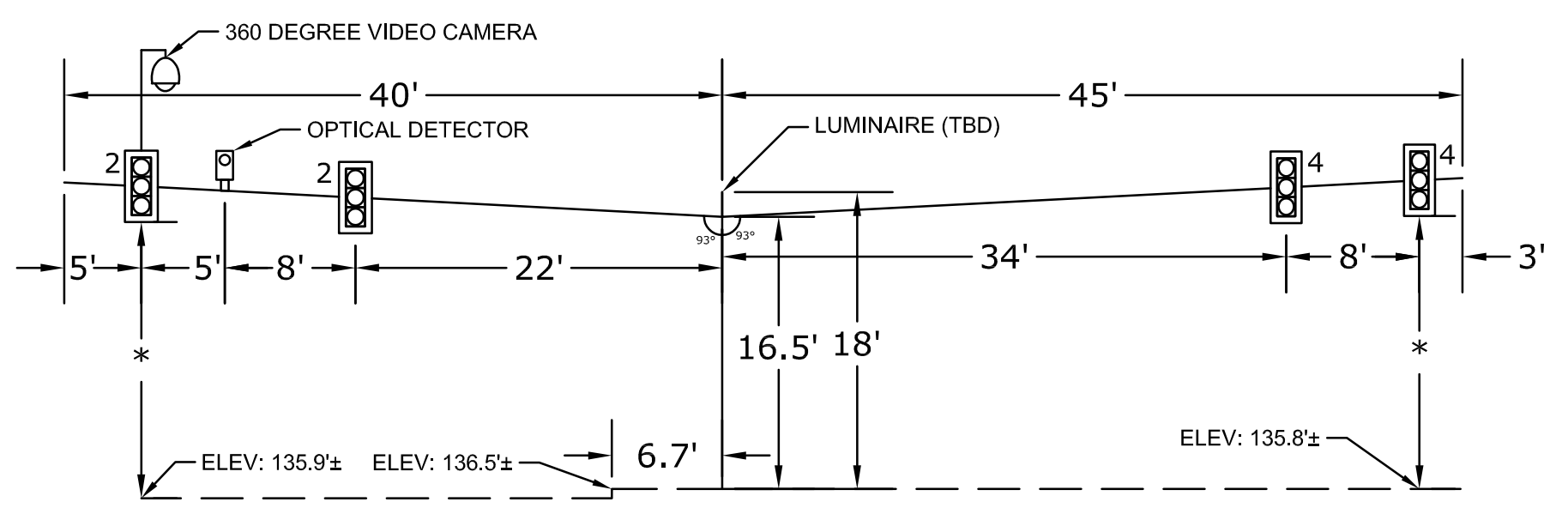
MAST ARM 079-241-A; TCS-1  
LOOKING NORTHEAST



MAST ARM 079-241-B; TCS-2  
LOOKING SOUTHWEST

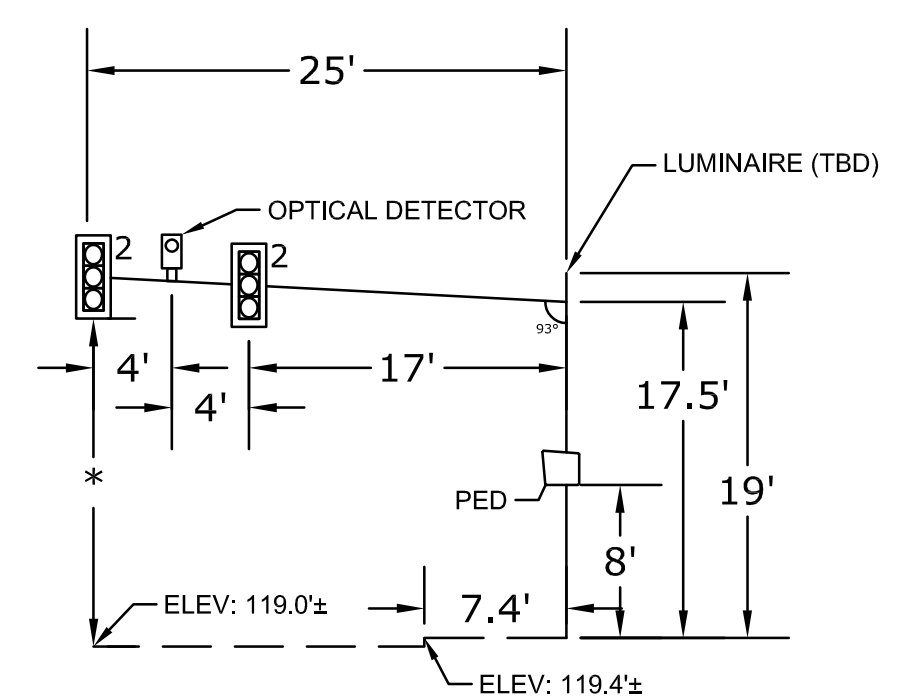


MAST ARM 079-241-C; TCS-2  
LOOKING NORTHEAST

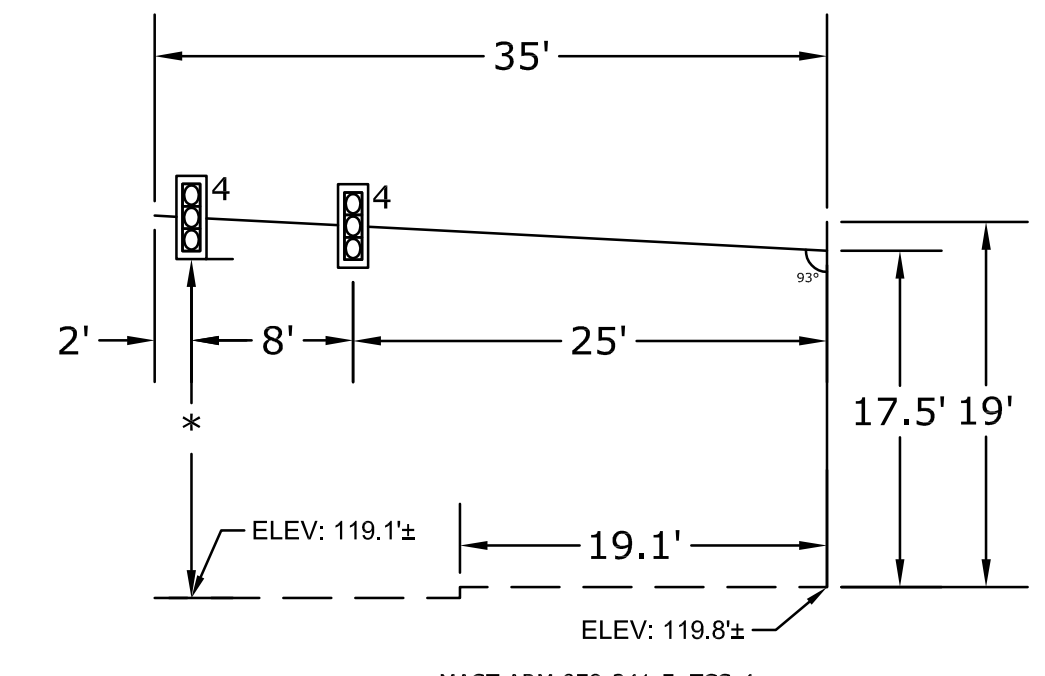


MAST ARM 079-241-D; TCS-3  
LOOKING WEST

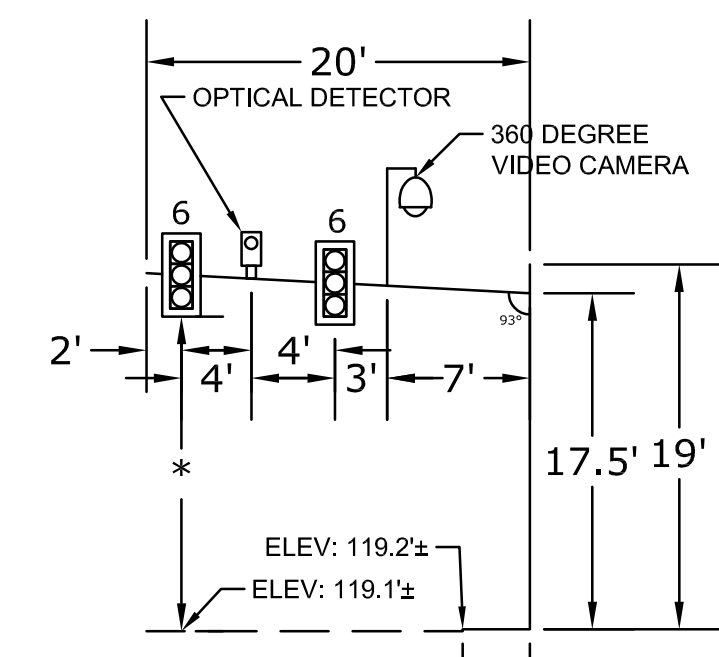
MAST ARM 079-241-E; TCS-3  
LOOKING NORTH



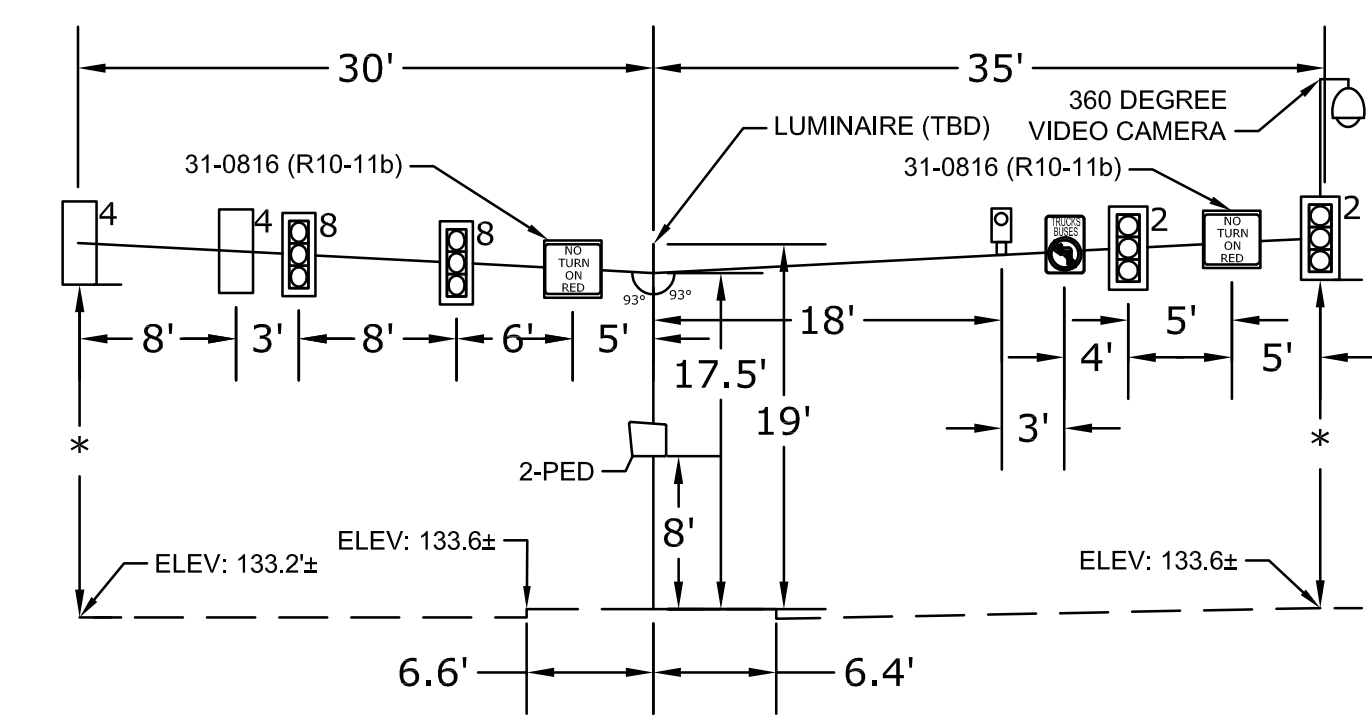
MAST ARM 079-241-E; TCS-4  
LOOKING WEST



MAST ARM 079-241-F; TCS-4  
LOOKING NORTH



MAST ARM 079-241-G; TCS-4  
LOOKING EAST



MAST ARM 079-241-H; TCS-5  
LOOKING SOUTH

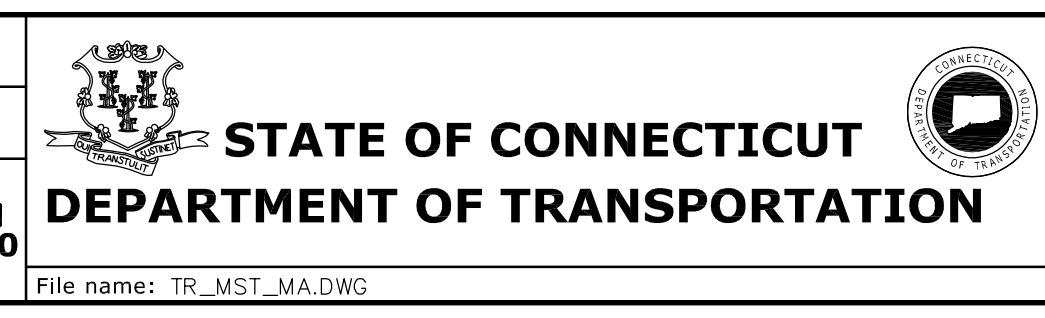
MAST ARM 079-241-I; TCS-5  
LOOKING WEST

**CONSTRUCTION NOTES:**

- ALL SIGN WEIGHTS AND SIZES ARE APPROXIMATE. CONTRACTOR SHALL SUBMIT WORKING DRAWINGS FOR APPROVAL.
- \* DISTANCE BETWEEN ROAD AND SIGNAL HEAD SHALL BE 16' TO 18'. CROSS SECTION IS IN LINE WITH MAST ARM.
- CONTRACTOR TO VERIFY MAST ARM INFORMATION INCLUDING CROSS SECTIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO SUBMISSION OF WORKING DRAWINGS.
- ALL MAST ARM MOUNTED TRAFFIC SIGNALS ARE TO BE FIXED MOUNTED TO THE ARM BY USE OF ADJUSTABLE BRACKETS.
- ALL MAST ARM MOUNTED SIGNS ARE FIXED MOUNTED.
- ALL MAST ARM EQUIPMENT INCLUDING BRACKETS, BANDING, AND HARDWARE SHALL BE BLACK, SEE SPECIAL PROVISIONS.
- ALL MAST ARMS ARE ORNAMENTAL, SEE SHEETS S1-S8.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER:  
CPD  
CHECKED BY:  
RRH  
SCALE IN FEET  
0 10 20  
SCALE 1"=10'

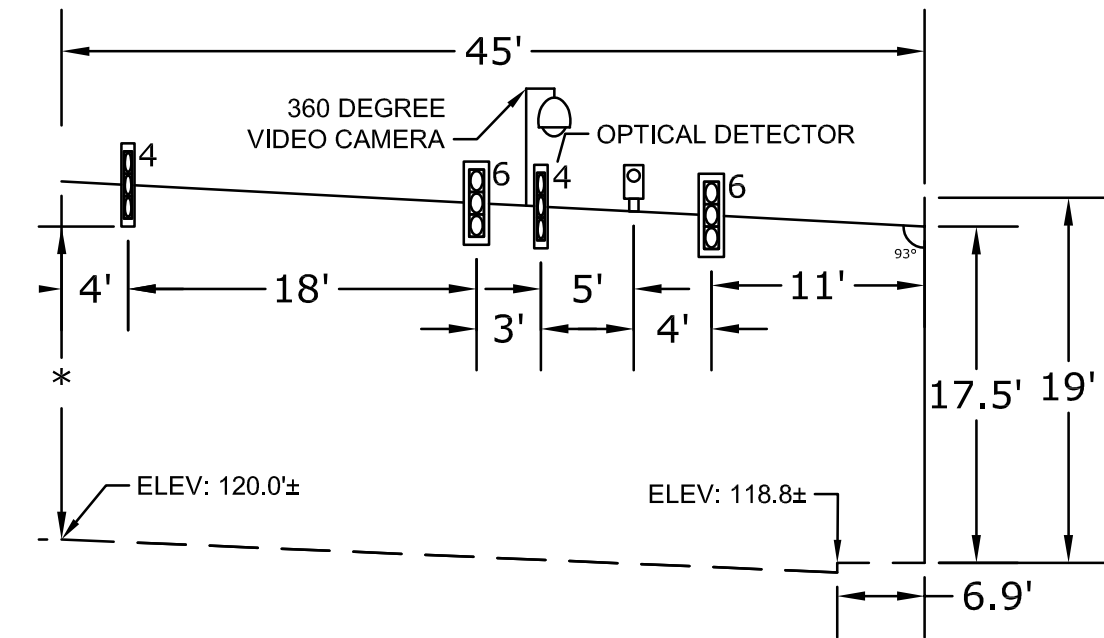


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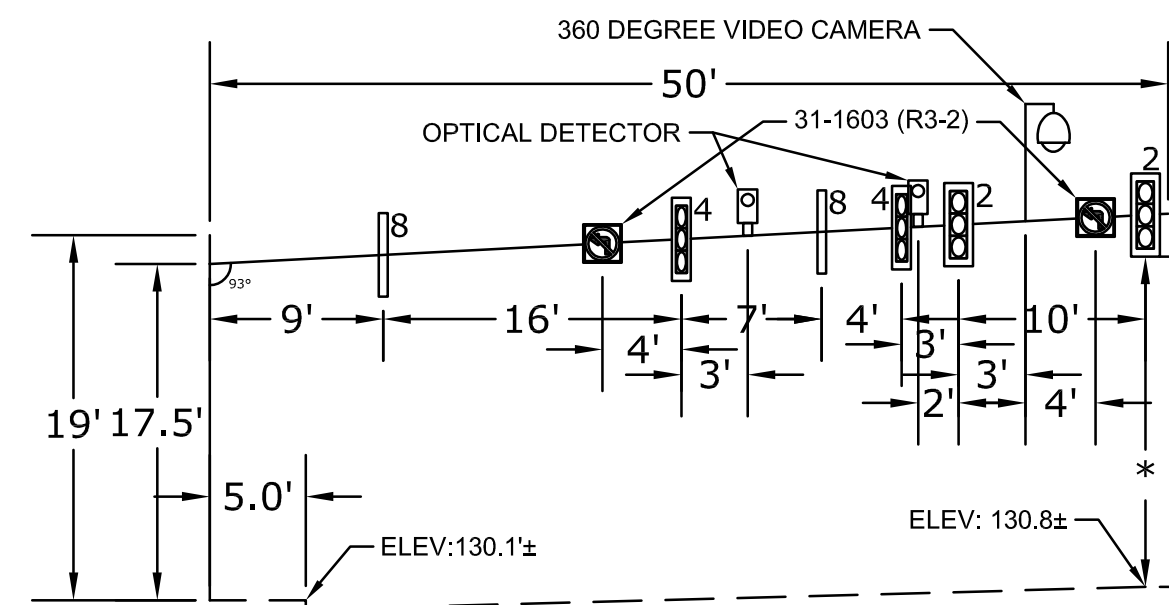
PROJECT TITLE:  
**CITY OF MERIDEN  
INTERSECTION IMPROVEMENTS**

TOWN:  
**MERIDEN**  
DRAWING TITLE:  
**MAST ARM CROSS SECTIONS**

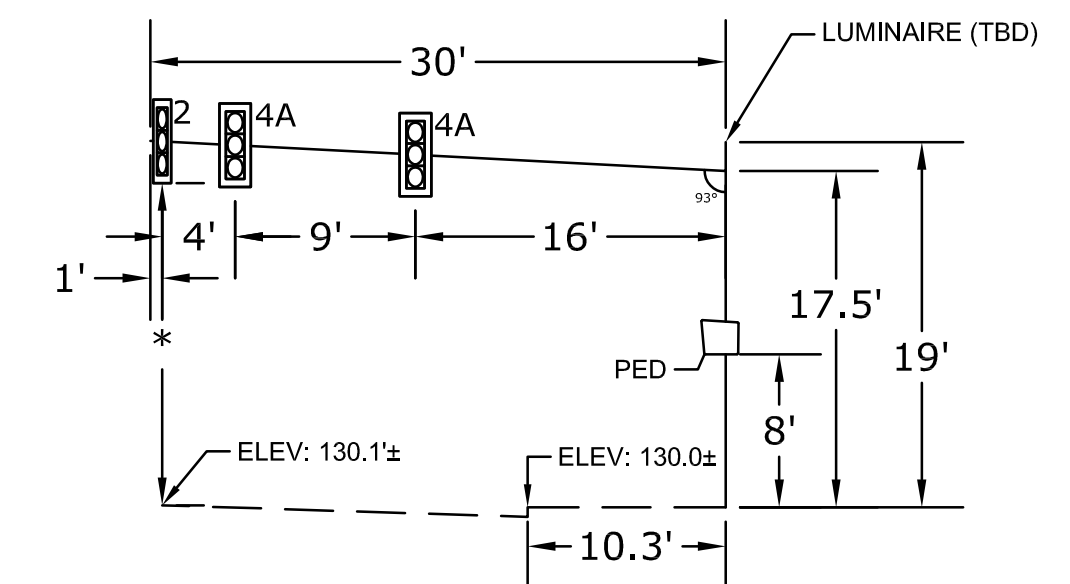
PROJECT NO.  
**0079-0241**  
DRAWING NO.  
MA- 01  
SHEET NO.  
**50**



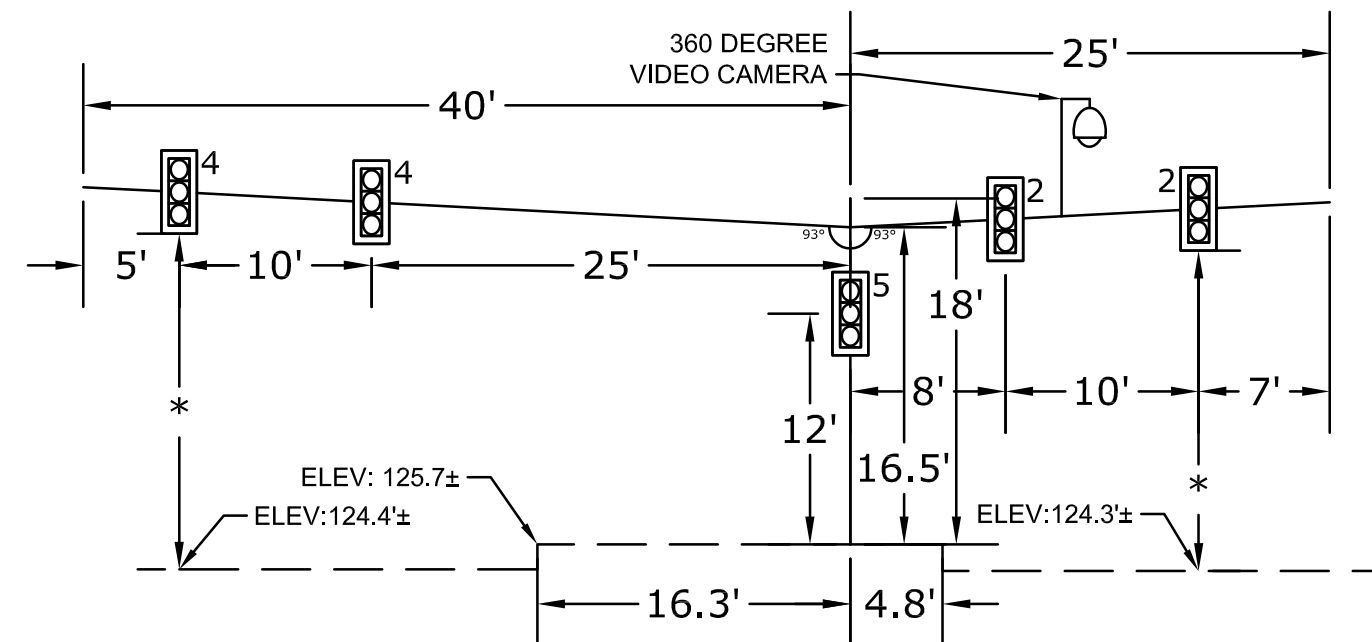
MAST ARM 079-241-I; TCS-6  
LOOKING NORTHEAST



MAST ARM 079-241-J; TCS-7  
LOOKING NORTHWEST

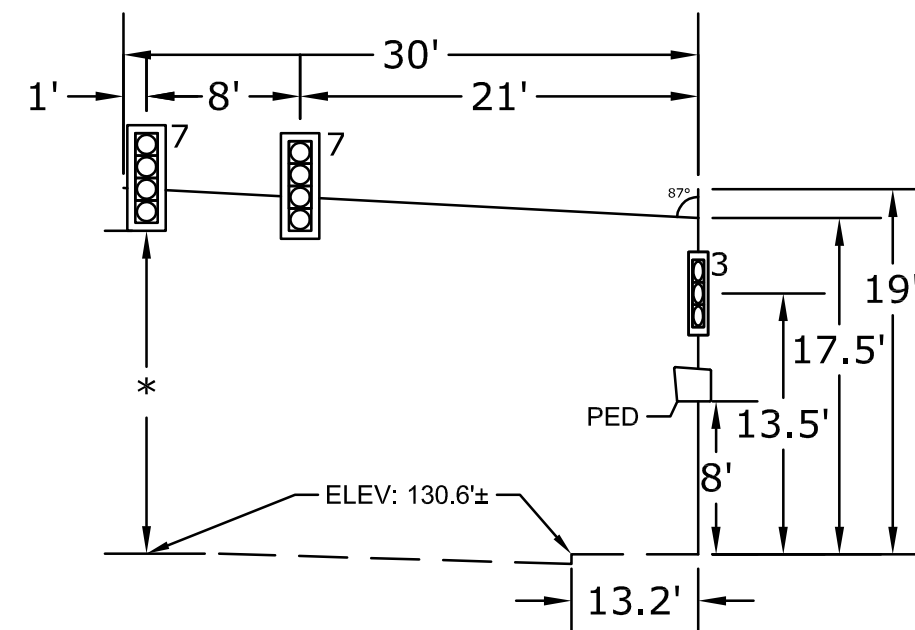


MAST ARM 079-241-K; TCS-7  
LOOKING NORTH

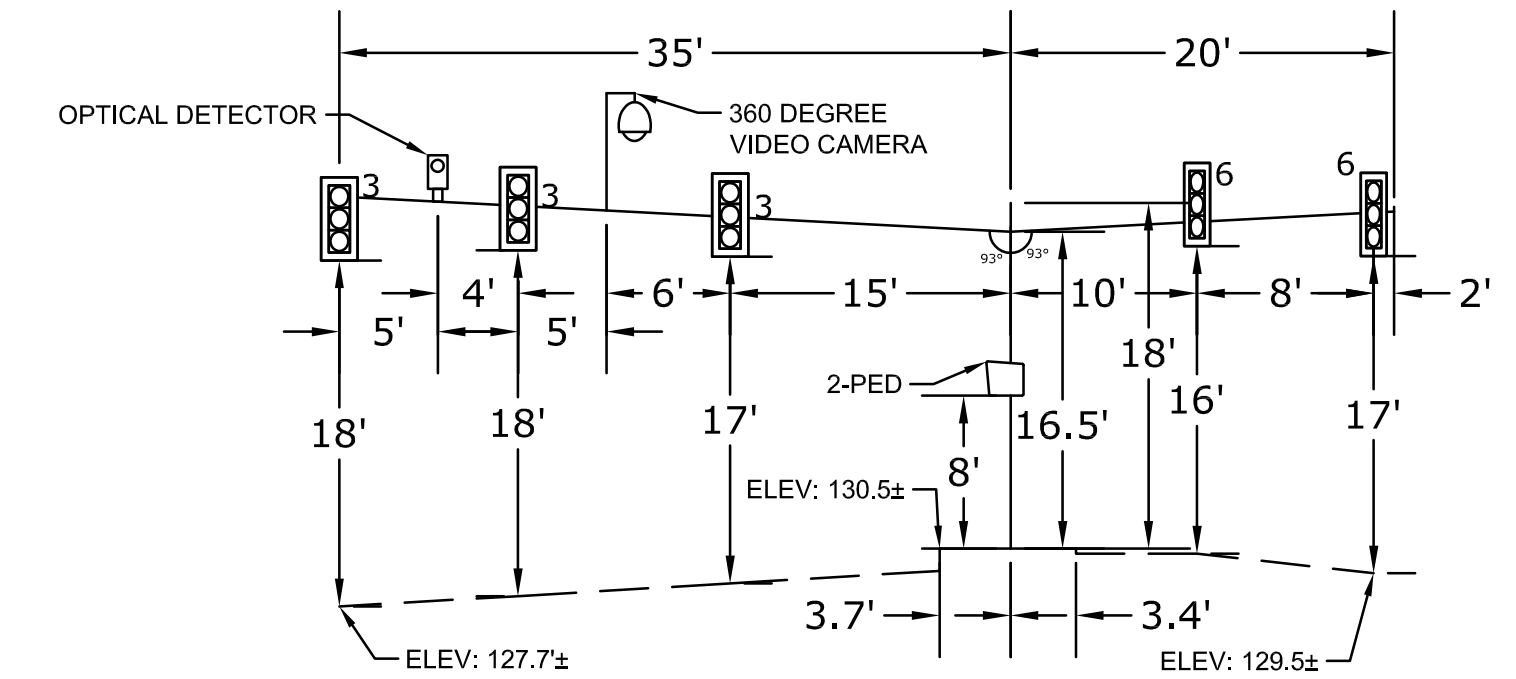


MAST ARM 079-241-L; TCS-8  
LOOKING SOUTH

MAST ARM 079-241-L; TCS-8  
LOOKING EAST

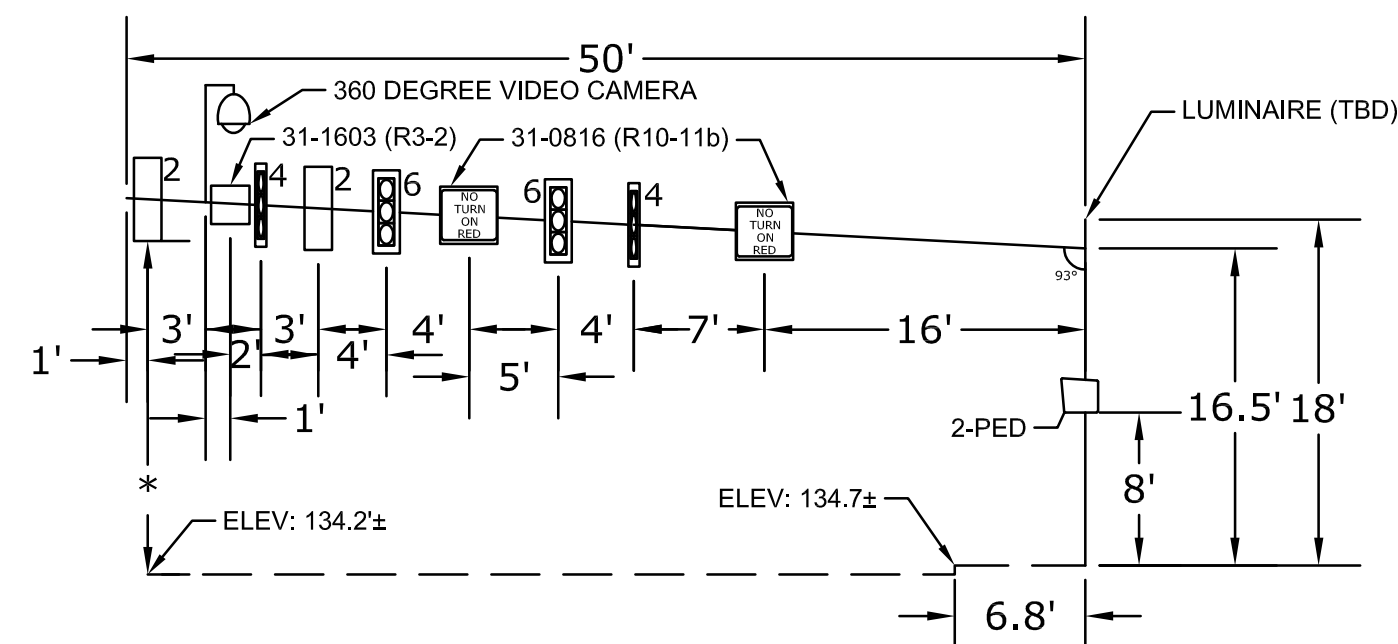


MAST ARM 079-241-O; TCS-9  
LOOKING SOUTH

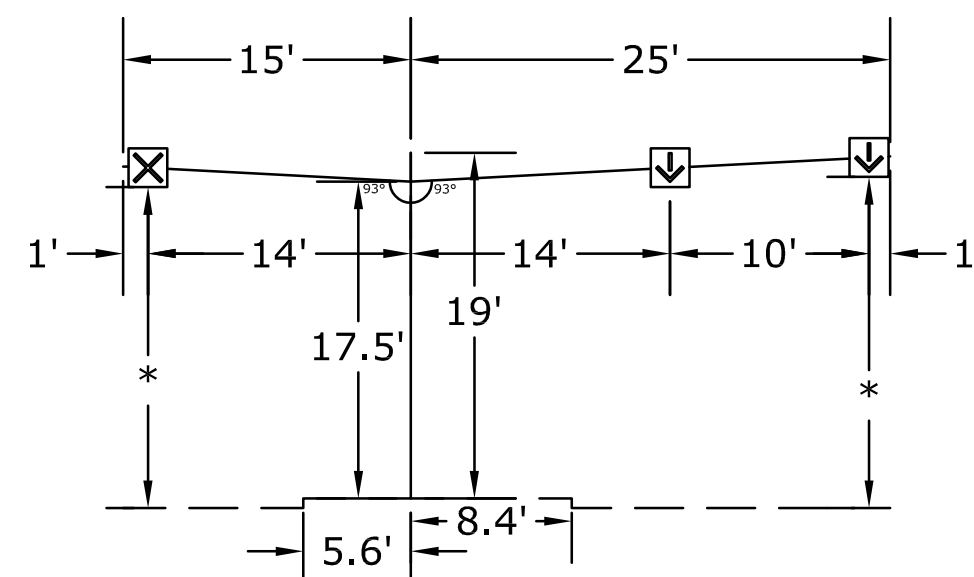


MAST ARM 079-241-P; TCS-9  
LOOKING EAST

MAST ARM 079-241-P; TCS-9  
LOOKING NORTH



MAST ARM 079-241-Q; TCS-11  
LOOKING SOUTH



MAST ARM 079-241-R; TCS-7  
LOOKING SOUTH

**CONSTRUCTION NOTES:**

ALL SIGN WEIGHTS AND SIZES ARE APPROXIMATE. CONTRACTOR SHALL SUBMIT WORKING DRAWINGS FOR APPROVAL.

\* DISTANCE BETWEEN ROAD AND SIGNAL HEAD SHALL BE 16' TO 18'. CROSS SECTION IS IN LINE WITH MAST ARM.

CONTRACTOR TO VERIFY MAST ARM INFORMATION INCLUDING CROSS SECTIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO SUBMISSION OF WORKING DRAWINGS.

ALL MAST ARM MOUNTED TRAFFIC SIGNALS ARE TO BE FIXED MOUNTED TO THE ARM BY USE OF ADJUSTABLE BRACKETS.

ALL MAST ARM MOUNTED SIGNS ARE FIXED MOUNTED.

ALL MAST ARM EQUIPMENT INCLUDING BRACKETS, BANDING, AND HARDWARE SHALL BE BLACK, SEE SPECIAL PROVISIONS.

ALL MAST ARMS ARE ORNAMENTAL, SEE SHEETS S1-S8.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: JANUARY 2021

DESIGNER/DRAFTER: CPD  
CHECKED BY: RRH  
SCALE IN FEET  
0 10 20  
SCALE 1"=10'



SIGNATURE/BLOCK: [Signature Area]

PROJECT TITLE:  
**CITY OF MERIDEN  
INTERSECTION IMPROVEMENTS**

TOWN:  
**MERIDEN**

DRAWING TITLE:  
**MAST ARM CROSS SECTIONS**

PROJECT NO.  
**0079-0241**

DRAWING NO.  
MA- 02

SHEET NO.  
**51**

INTERSECTION DESCRIPTION	STRUCTURE ID NO.	BORING NO.	STRUCTURE TYPE	ATTACHMENT HEIGHT (FT)	OVERALL POLE HEIGHT (FT)	MINIMUM POLE BASE DIAMETER (IN.)	MINIMUM POLE THICKNESS (IN.)	ARM 1			ARM 2			HORIZONTAL ANGLE	RESULTANT BENDING MOMENT (K-FT)	TORSION (K-FT)	AXIAL FORCE (KIP)	RESULTANT SHEAR FORCE (KIP)	MINIMUM BASE PLATE THICKNESS (IN.)	MINIMUM FOUNDATION EMBEDMENT DEPTH (FT.)	LONGITUDINAL FOUNDATION REINFORCEMENT	
								ARM LENGTH (FT)	MINIMUM ARM DIA. AT POLE (IN.)	MINIMUM ARM THICKNESS (IN.)	ARM LENGTH (FT)	MINIMUM ARM DIA. AT POLE (IN.)	MINIMUM ARM THICKNESS (IN.)								BAR NO.	NO. OF BARS
ROUTE 71 & WEST MAIN STREET	079-241-A	B-1	SINGLE MAST-ARM	18.5'	20'	18	7/16	50	18	7/16	-	-	-	-	164	161	6	8	2	14	9	11
ROUTE 71 & HANOVER STREET	079-241-B	B-2	SINGLE MAST-ARM	17.5'	19'	15	3/8	40	15	3/8	-	-	-	-	93	92	3.5	5	2	16	9	11
	079-241-C		SINGLE MAST-ARM	17.5'	19'	15	3/8	35	15	3/8	-	-	-	-	90	78	4	5	2	16	9	11
WEST MAIN STREET & BUTLET STREET	079-241-D	B-3	TWIN MAST-ARM	16.5'	18'	12	3/8	40	12	3/8	45	12	3/8	90.3°	105	58	5	4	2	14	9	11
HANOVER STREET & BUTLER STREET	079-241-E	B-11	SINGLE MAST-ARM	17.5'	19'	12	3/8	25	12	3/8	-	-	-	-	48	28	3	3	2	12	9	11
	079-241-F		SINGLE MAST-ARM	17.5'	19'	12	3/8	35	12	3/8	-	-	-	-	54	44	2.5	3	2	12	9	11
	079-241-G		SINGLE MAST-ARM	17.5'	19'	12	3/8	20	12	3/8	-	-	-	-	37	18	2	2	2	12	9	11
WEST MAIN STREET & SOUTH GROVE STREET	079-241-H	B-4	TWIN MAST-ARM	17.5'	19'	12	3/8	30	12	3/8	35	12	3/8	76.4°	131	74	4.5	6	2	16	9	11
HANOVER STREET & SOUTH GROVE STREET	079-241-I	B-10	SINGLE MAST-ARM	17.5'	19'	15	3/8	45	15	3/8	-	-	-	-	91	75	3.5	4.5	2	14	9	11
WEST MAIN STREET & COLONY STREET	079-241-J	B-5	SINGLE MAST-ARM	17.5'	19'	18	3/8	50	18	3/8	-	-	-	-	132	140	4.5	6.5	2	20	9	11
	079-241-K		SINGLE MAST-ARM	17.5'	19'	12	3/8	30	12	3/8	-	-	-	-	58	43	3	4	2	12	9	11
	079-241-R		TWIN MAST-ARM	17.5'	19'	12	3/8	15	12	3/8	25	12	3/8	176.5°	39	14	2.5	2.5	2	12	9	11
HANOVER STREET & COLONY STREET	079-241-L	B-9	TWIN MAST-ARM	16.5'	18'	12	3/8	40	12	3/8	25	12	3/8	66.4°	92	52	4	4	2	14	9	11
PERKINS STREET & CROWN STREET	079-241-O	B-7	SINGLE MAST-ARM	17.5'	19'	12	3/8	30	12	3/8	-	-	-	-	58	39	2.5	3.5	2	12	9	11
	079-241-P		TWIN MAST-ARM	16.5'	18'	12	3/8	35	12	3/8	20	12	3/8	108.6°	85	52	3.5	4.5	2	12	9	11
COLONY STREET & CHURCH STREET	079-241-Q	B-8	SINGLE MAST-ARM	16.5'	18'	18	7/16	50	18	7/16	-	-	-	-	147	161	6	7	2	20	9	11

**TABLE 1  
MAST ARM STRUCTURES**

INTERSECTION DESCRIPTION	STRUCTURE ID NO.	BORING NO.	STRUCTURE TYPE	ATTACHMENT HEIGHT (FT)	OVERALL POLE HEIGHT (FT)	MINIMUM POLE BASE DIAMETER (IN.)	MINIMUM POLE THICKNESS (IN.)	SPAN WIRE DIAMETER (IN.)	RESULTANT BENDING MOMENT (K-FT)	AXIAL FORCE (KIP)	RESULTANT SHEAR FORCE (KIP)	MINIMUM BASE PLATE THICKNESS (IN.)	MINIMUM FOUNDATION EMBEDMENT DEPTH (FT.)	LONGITUDINAL FOUNDATION REINFORCEMENT	
														BAR NO.	NO. OF BARS
EAST MAIN STREET & PRATT STREET	079-241-M	B-6	SPAN POLE	28.5'	30'	15	3/8	7/16	183	2	6	2	14	9	11
	079-241-N		SPAN POLE	28.5'	30'	15	3/8	7/16	183	2	6	2	14	9	11

**GENERAL NOTES:**

- SPECIFICATIONS ARE PER CONNDOT FORM 817 (2016), AND SPECIAL PROVISIONS.
- POLES ARE DESIGNED IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS, SIXTH EDITION 2013 (INCLUDING INTERIM PROVISIONS THROUGH 2019), PROJECT SPECIAL PROVISIONS AND CONTRACT TRAFFIC CONTROL PLAN SHEET. DESIGN WIND SPEED = 120 MPH, FATIGUE CATEGORY = 1.
- POLE & ARM TUBES - ASTM A572, GR 65
- BASE PLATE - ASTM A572, GR 50
- ARM PLATE & POLE PLATE - ASTM A572, GR 50
- GUSSET PLATES - ASTM A572, GR 50
- HANDHOLE FRAME - ASTM A572, GR 50
- MICS. PLATE/BAR - ASTM A36 MIN.
- FLANGE BOLTS - ASTM A325, H.D.GALV. PER ASTM A153
- FLANGE NUTS - ASTM A563, GR. H.D. GALV. PER ASTM A153
- FLANGE WASHERS - ASTM F436, TYPE 1, H.D. GALV. PER ASTM A153
- MISC HARDWARE - ASTM A307 H.D. GALV. PER ASTM A153 or AISI 300 S.S. (UNLESS NOTED OTHERWISE).
- STRUCTURE FINISH - H.D. GALV. PER ASTM A123.
- ALUMINUM OR STEEL I.D. TAGS SHALL BE ATTACHED TO THE POLE WITH SELF-TAPPING TAMPER RESISTANT SCREWS OR PERMANENTLY ATTACHED WITH WELDS. THE INTERSECTION AND POLE NUMBER MAY ALSO BE "WELD MARKED" ON THE EDGE OF THE BASE PLATE.




**TABLE 2  
SPAN POLE STRUCTURES**

**GENERAL NOTES (CONT.):**

- WELDING - AWS D1.1 COMPLETE JOINT PENETRATION WELDS SHALL BE NON-DESTRUCTIVELY TESTED BY THE ULTRASONIC METHOD. ALL OTHER WELDS SHALL BE TESTED BY THE MAGNETIC PARTICLE METHOD PER PROJECT SPECIAL PROVISIONS
- ROUND SPAN POLE STRUCTURES ARE TAPERED.
- ROUND MAST ARM STRUCTURE POLES HAVE NO TAPER.
- SPAN WIRE HIGH STRENGTH SHALL BE MADE OF DOUBLE GALVANIZED 7-STRAND EXTRA HIGH STRENGTH GRADE STEEL WIRE CABLE, NOT LESS THAN 7/16 IN DIAMETER WITH AT LEAST A 20,800-LB BREAKING STRENGTH.
- ALL MEMBER SIZES SHOWN ON THE PLANS ARE TO BE VERIFIED BY CONTRACTOR/FABRICATOR PRIOR TO FABRICATION.
- MAST ARM MINIMUM TIP DIAMETER IS 8".
- ALL EXPOSED MEMBERS AND HARDWARE SHALL BE COLORED BLACK, FEDERAL STANDARD 595, COLOR NO. 37038, CONFORMING TO FEDERAL SPECIFICATION TT-E-489.
- NO SPLICE PLATE REQUIRED FOR ARMS UP TO 50' LONG.
- MAST ARM AND SPAN POLE STRUCTURAL DETAILS SHOWN ON THE STRUCTURE PLANS ARE PER ENGINEERED POLE STRUCTURES, LLC (LIGHTHOUSE POINT, FLORIDA) DETAILS OR APPROVED EQUAL.

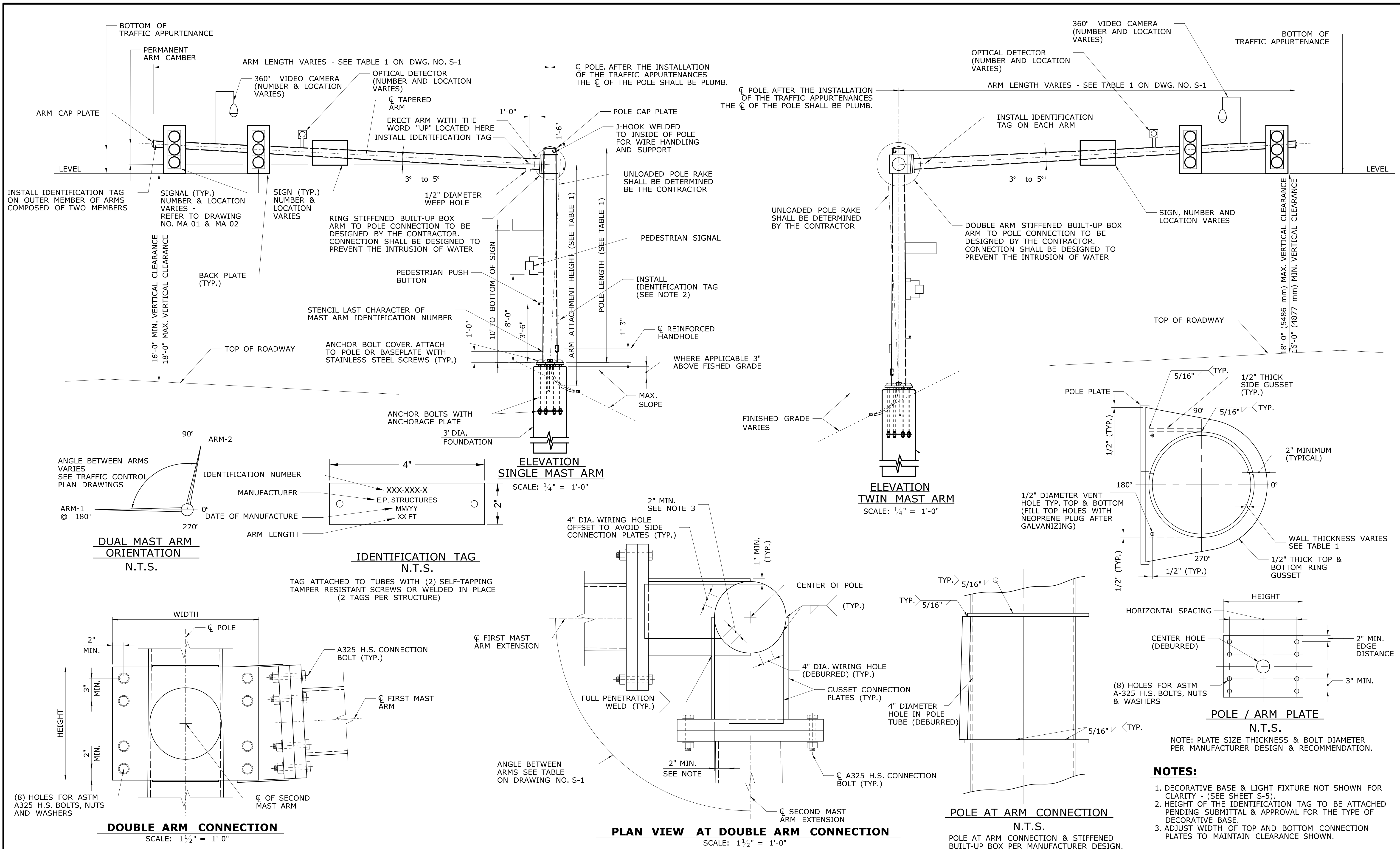
**FOUNDATION NOTES**

- THE MAST ARM / SPAN POLE FOUNDATION IS DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, WITH THE LATEST INTERIM SPECIFICATIONS.
- THE FOUNDATION EMBEDMENT IS DESIGNED FOR MAXIMUM LOAD EFFECTS, APPLIED AT THE TOP OF THE FOUNDATION, NO GREATER THAN THE VALUES SHOWN IN THE TABLE ON THIS SHEET.
- THE USE OF THE FOUNDATION IS NOT PERMITTED IF THE COMPUTED REACTIONS FROM THE CONTRACTOR DESIGNED MAST ARM ASSEMBLY EXCEED THE ABOVE LOAD EFFECTS.
- THE CONCRETE FOR THE FOUNDATION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL FOUNDATIONS.
- THE REINFORCEMENT SHALL BE UNCOATED AND CONFORM TO ASTM A615, GRADE 60 THE REINFORCEMENT SHALL BE ASSEMBLED WITH WIRE TIES. WELDING TO ASSEMBLE REINFORCEMENT IS NOT PERMITTED. ALL REINFORCEMENT SHALL HAVE 3" COVER, UNLESS OTHERWISE NOTED.
- ANCHOR BOLTS SHALL CONFIRM TO ASTM F1554, GRADE 105.
- THE CONCRETE SHALL BE PLACED IN A AUGERED HOLE AGAINST UNDISTURBED EARTH.
- THE MAST ARM SHALL NOT BE ERECTED ON THE FOUNDATION UNTIL AFTER THE CONCRETE HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH, F<sub>c</sub>, GREATER THAN OR EQUAL TO 4000 PSI.
- THE COST OF THE FOUNDATION, INCLUDING THE EXCAVATION, TEMPORARY CASING CONCRETE AND REINFORCEMENT, SHALL BE PAID FOR UNDER THE ITEM "TRAFFIC CONTROL FOUNDATION MAST ARM" OR "TRAFFIC CONTROL FOUNDATION - SPAN POLE".

DESIGNER/DRAFTER: <b>D.A.S.</b>	 		<b>CITY OF MERIDEN</b> <b>INTERSECTION IMPROVEMENTS</b>	TOWN: <b>MERIDEN</b>	PROJECT NO. <b>232593</b>
CHECKED BY: <b>R.H.S.</b>				DRAWING TITLE: <b>GENERAL NOTES</b>	DRAWING NO. <b>S-1</b>
SCALE AS NOTED	FILENAME: ...General Notes.dgn				SHEET NO. <b>52</b>

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/14/2021



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **D.A.S.**  
CHECKED BY: **R.H.S.**  
SCALE AS NOTED

**CDM Smith**  
77 HARTLAND STREET, SUITE 201  
EAST HARTFORD, CT 06118  
PHONE: 860-529-7615  
FAX: 860-292-7845  
WWW.CDMSMITH.COM

**RHS Consulting Design, LLC**  
ENGINEERING SURVEYING CONSTRUCTION INSPECTION  
345 HIGHLAND AVE., CHESHIRE, CT 06810  
TEL. 203-439-9340 - FAX 203-439-9342

Signature/Block: *[Signature]*

PROJECT TITLE: **CITY OF MERIDEN INTERSECTION IMPROVEMENTS**

TOWN: **MERIDEN**

DRAWING TITLE: **MISCELLANEOUS DETAILS**

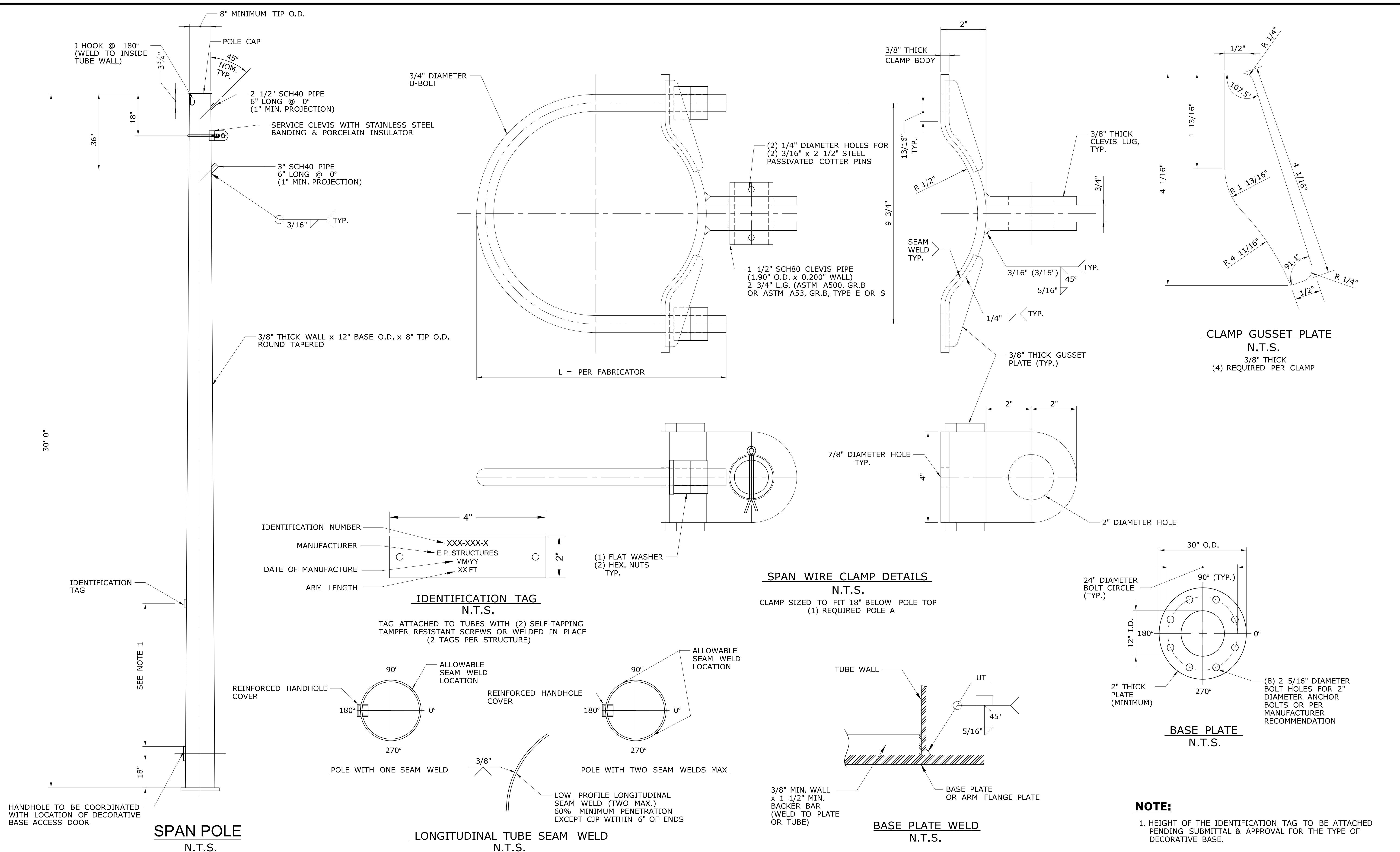
PROJECT NO. **232593**

DRAWING NO. **S-2**

SHEET NO. **53**

Plotted Date: 1/14/2021

Filename: ...Miscellaneous Details.dgn



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/14/2021

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CHECKED BY: **R.H.S.**  
SCALE AS NOTED

**CDM Smith**  
77 HARTLAND STREET, SUITE 201  
EAST HARTFORD, CT 06108  
PHONE: 860-529-7615  
FAX: 860-290-7945  
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345 HIGHLAND AVE., CHESHIRE, CT 06810  
TEL. 203-439-9340 • FAX 203-439-9342

Filename: ...Span Pole Assembly Elevation.dgn

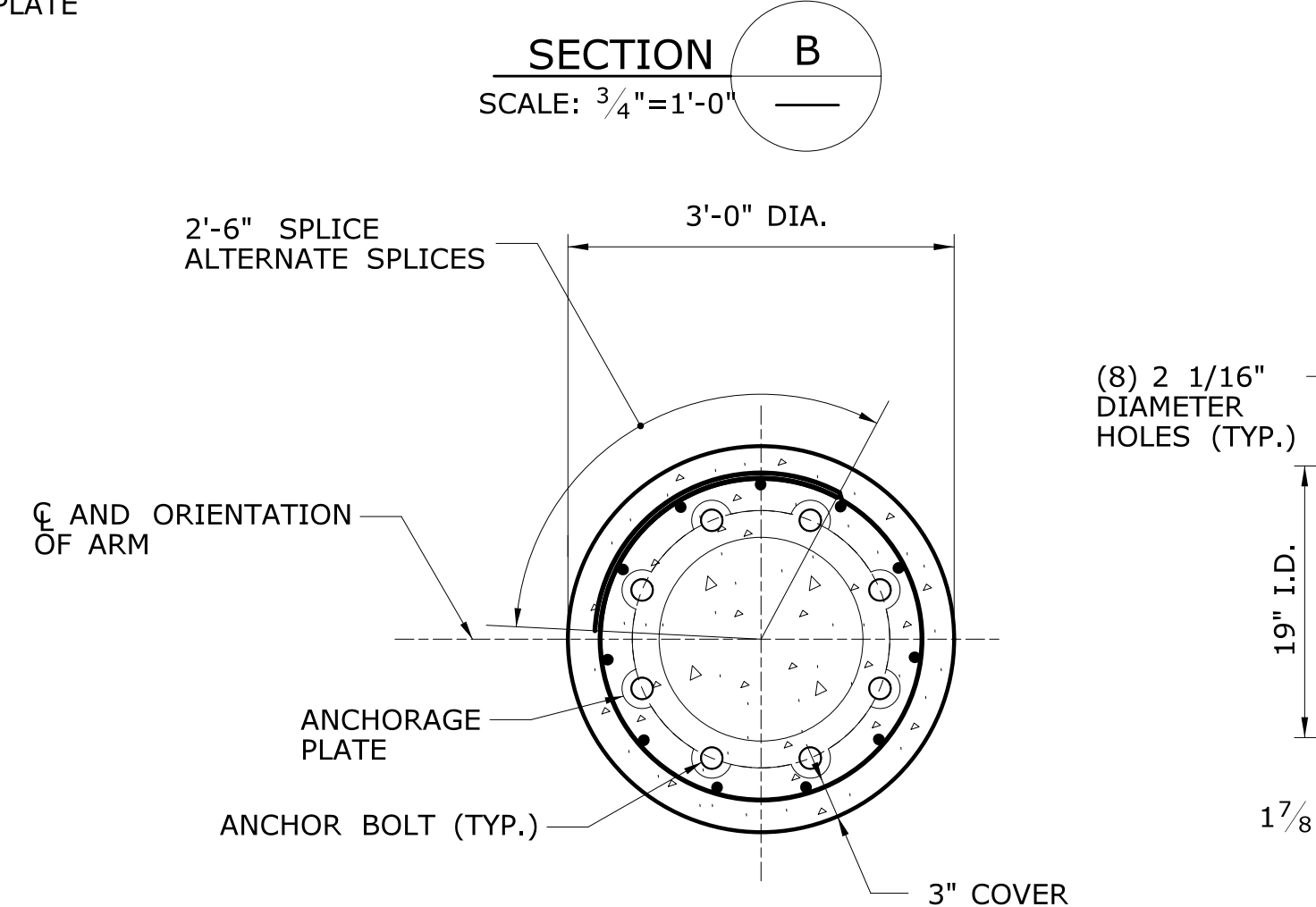
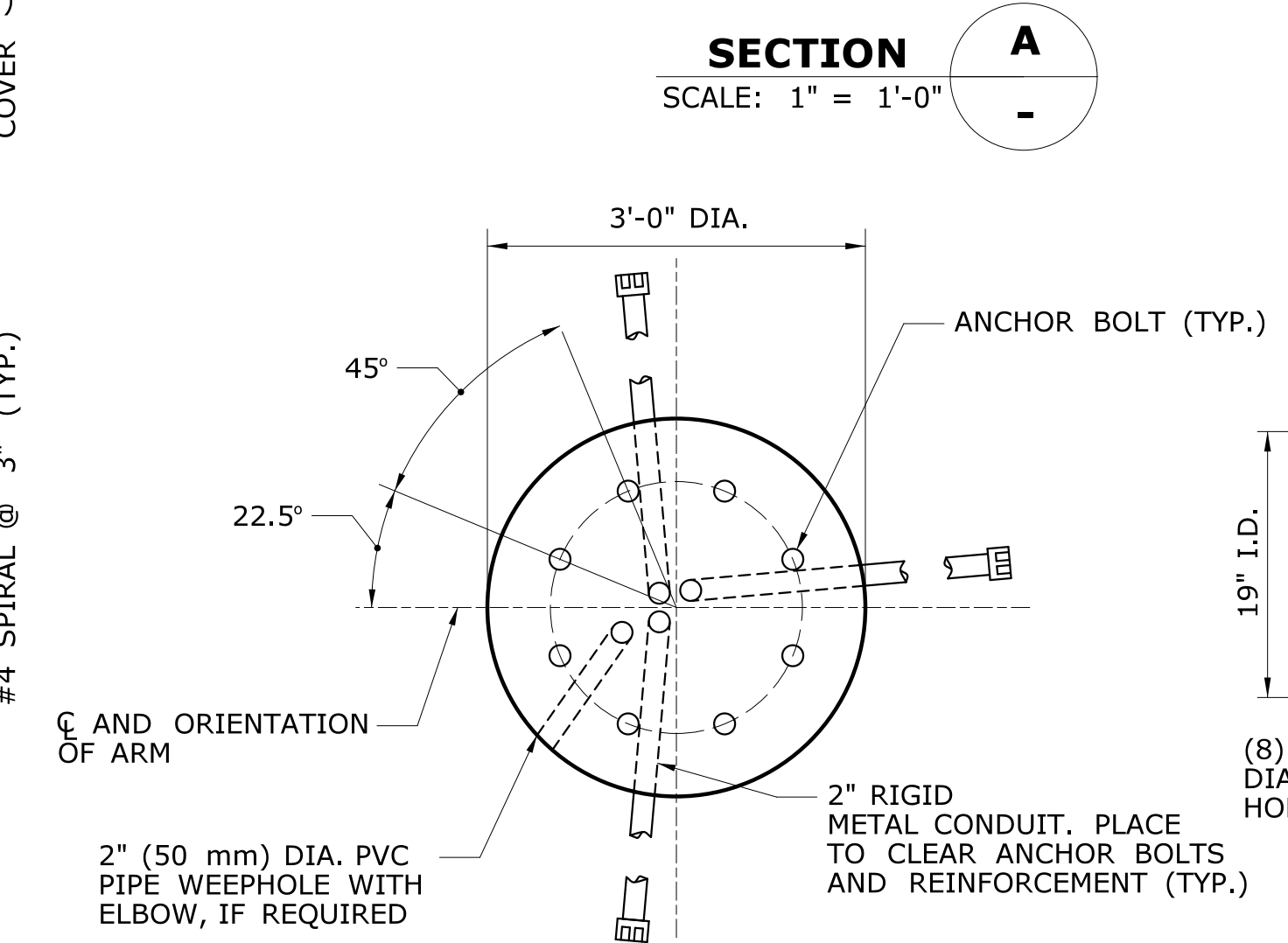
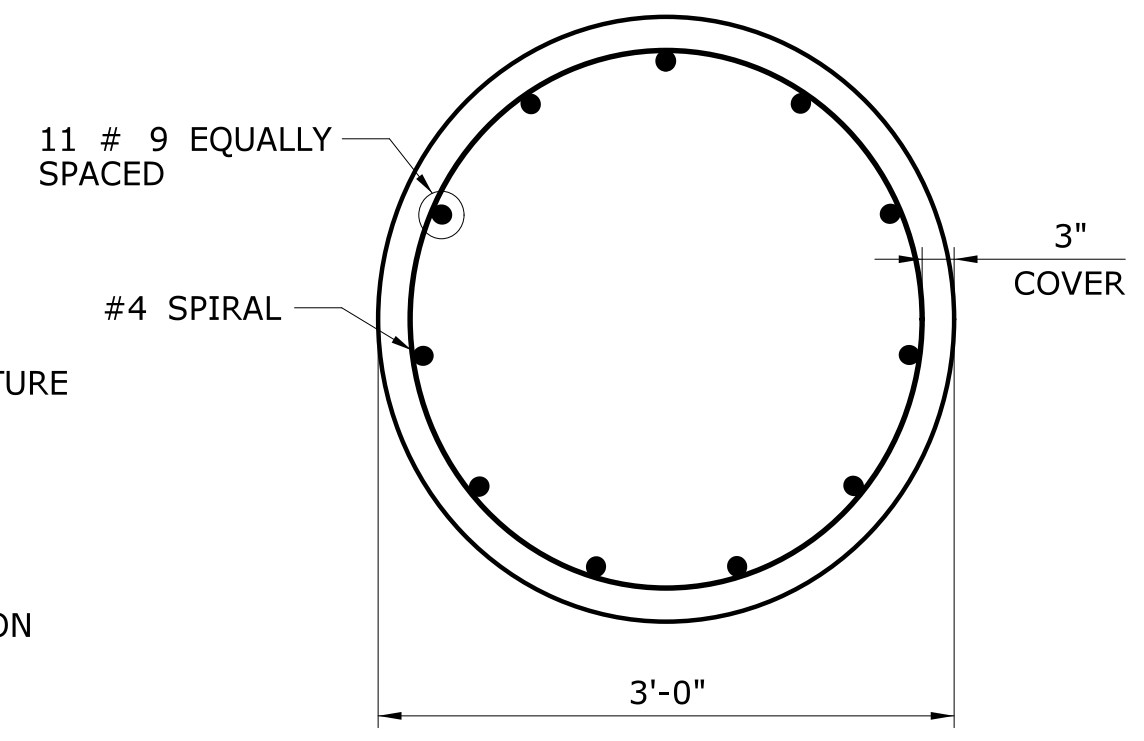
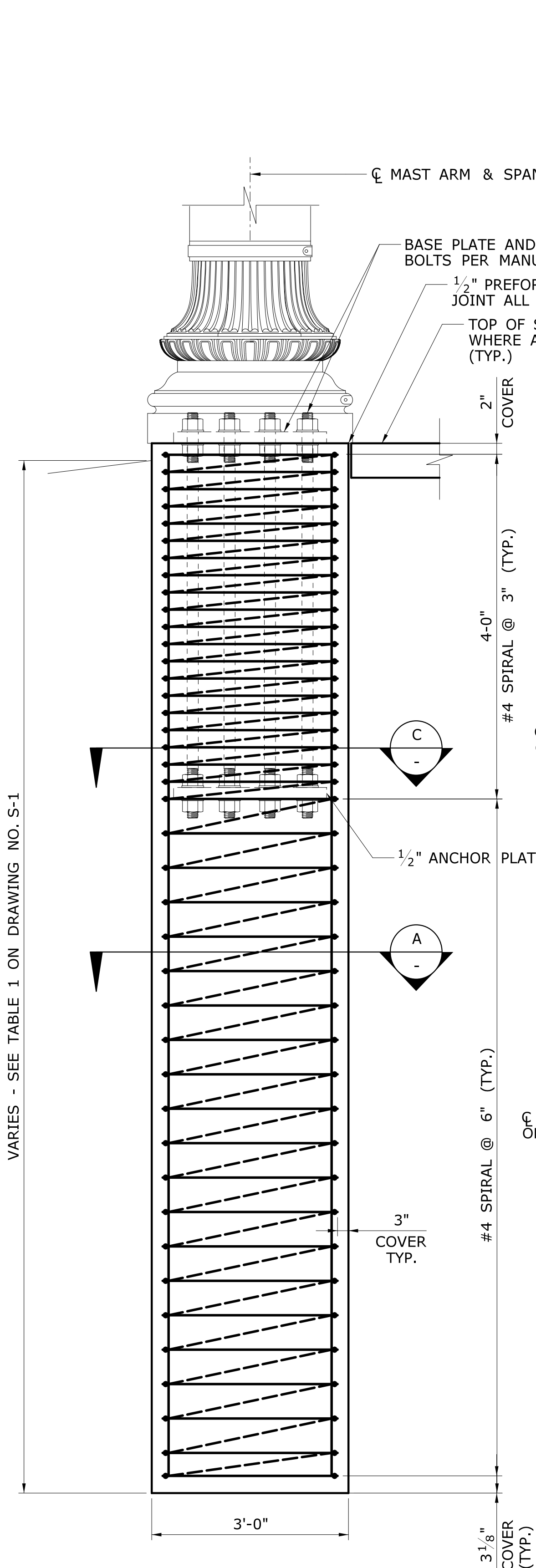
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RHS CONSULTING DESIGN, LLC  
345 HIGHLAND AVE.  
CHESHIRE, CT 06810

PROJECT TITLE:  
**CITY OF MERIDEN  
INTERSECTION IMPROVEMENTS**

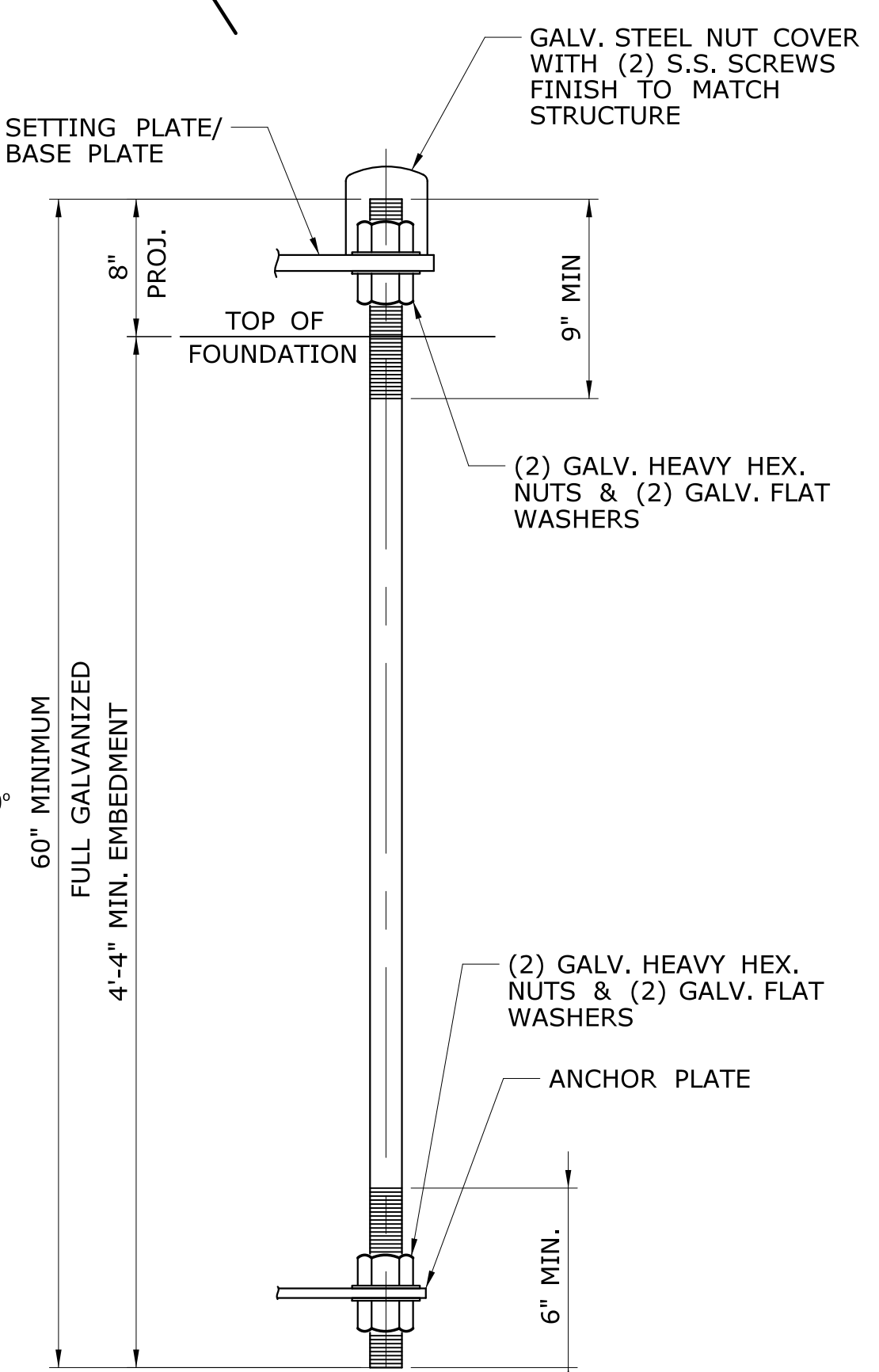
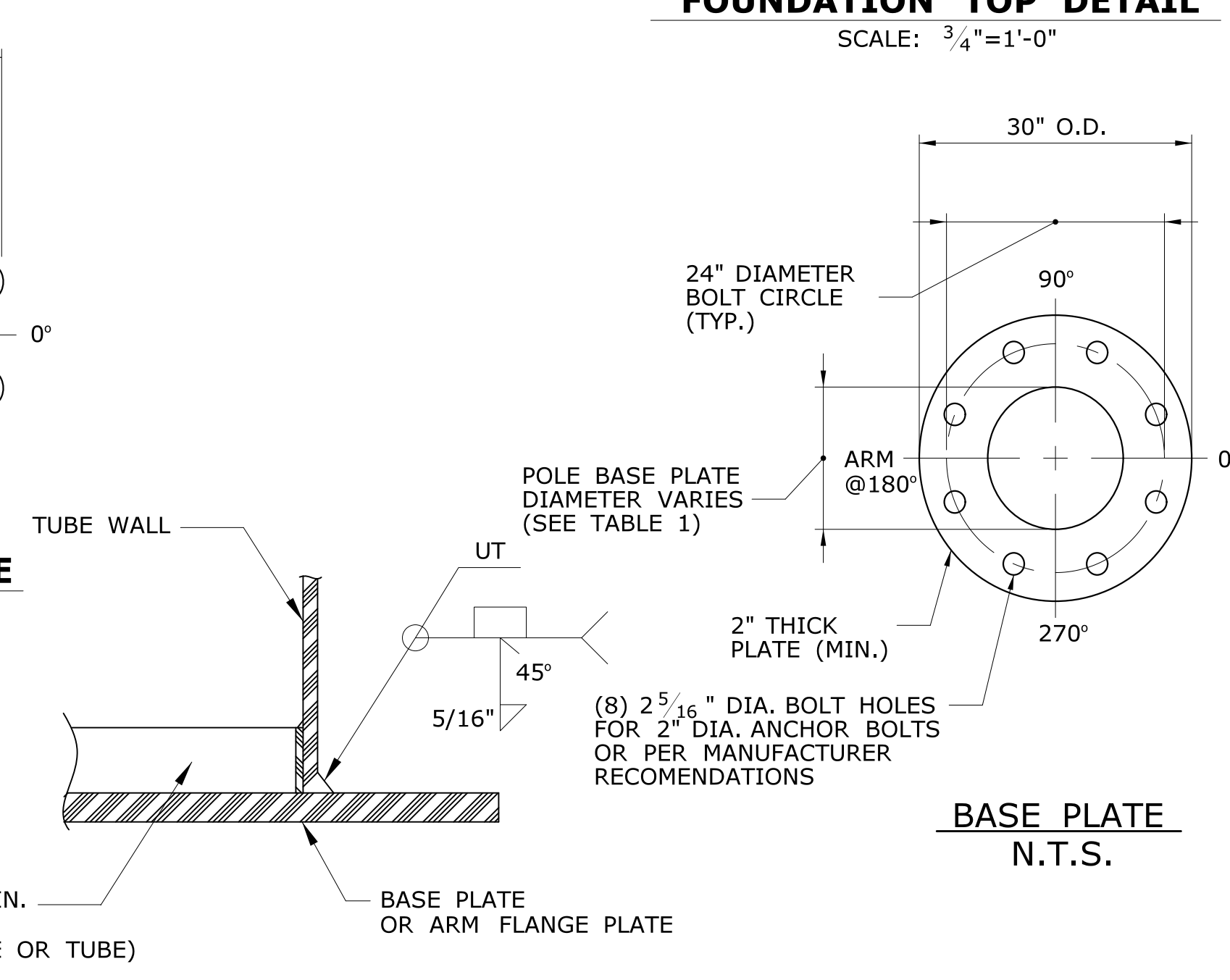
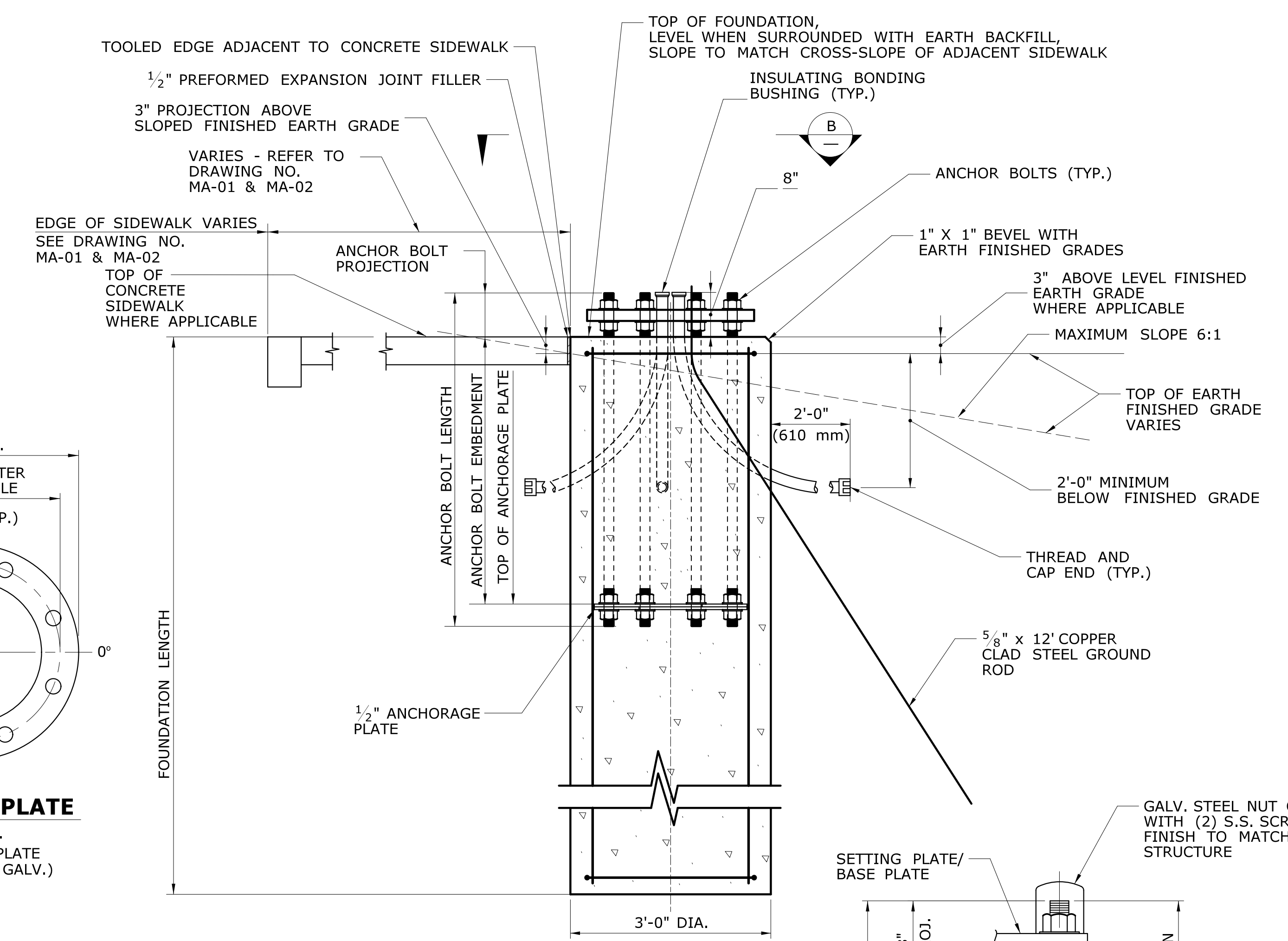
TOWN: **MERIDEN**  
DRAWING TITLE: **SPAN POLE ASSEMBLY ELEVATION**

PROJECT NO.: **232593**  
DRAWING NO.: **S-3**  
SHEET NO.: **54**



1. ANCHOR BOLTS  
ASTM F1554, GR.105, H.D. GALV. PER ASTM A153
2. ANCHOR NUTS  
ASTM A563, GR. DH, H.D. GALV. PER ASTM A153
3. ANCHOR FLAT WASHERS  
ASTM F436, TYPE 1, H.D. GALV. PER ASTM A153
4. ANCHOR PLATE  
ASTM A572, GR.50, H.D. GALV. PER ASTM A123
5. SETTING PLATE  
ASTM A36 MIN.

NOTE: USE (8) 2" DIAMETER ANCHOR BOLTS OR AS RECOMMENDED BY MANUFACTURER



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 1/14/2021

DESIGNER/DRAFTER: **D.A.S.**  
CHECKED BY: **R.H.S.**  
SCALE AS NOTED

**CDM Smith**  
77 HARTLAND STREET, SUITE 201  
EAST HARTFORD, CT 06108  
PHONE: 860-529-7615  
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345 HIGHLAND AVE., CHESHIRE, CT 06810  
TEL. 203-439-9340 - FAX 203-439-9342

Filename: ...Foundation Details.dgn

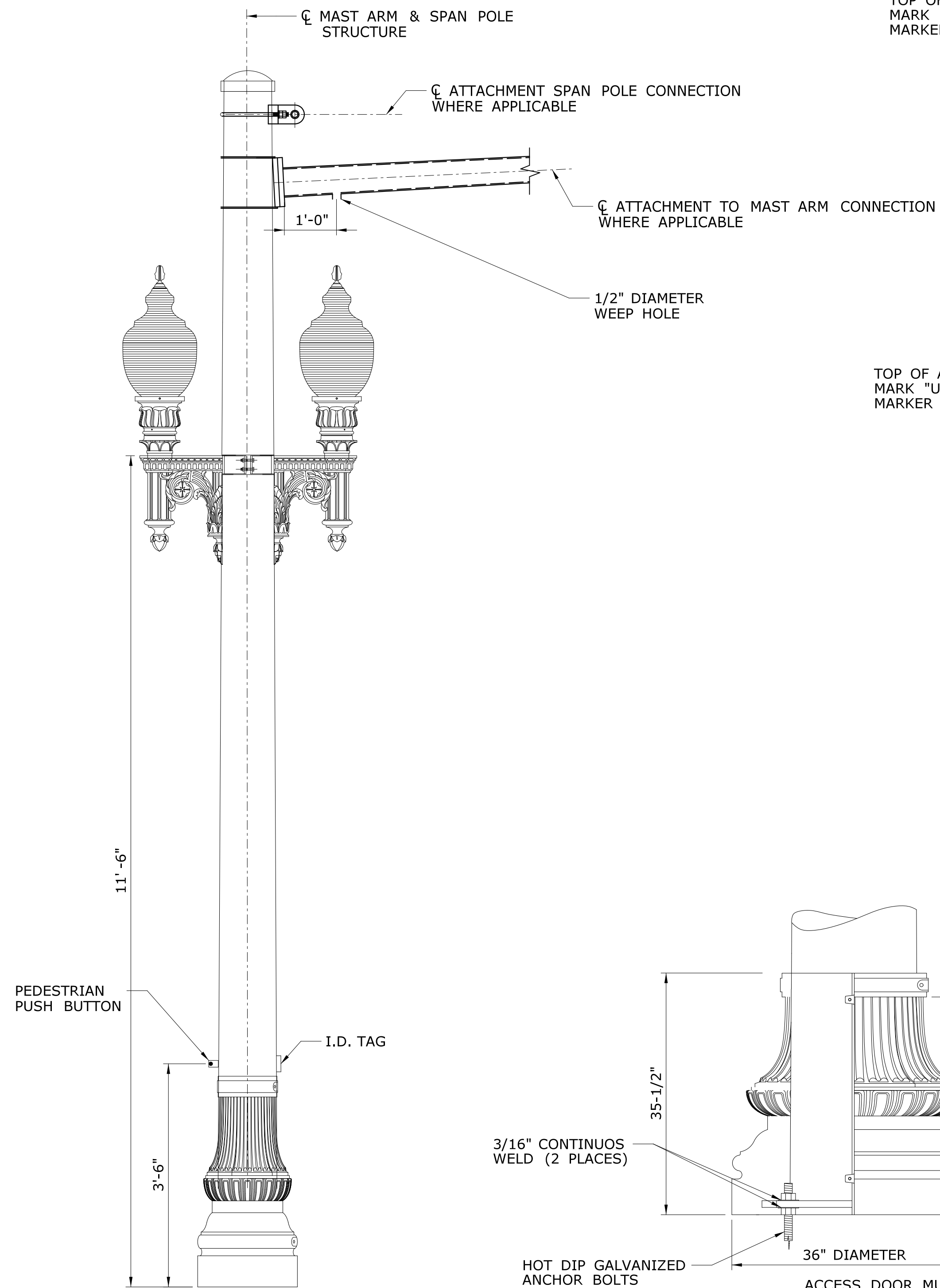
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RHS CONSULTING DESIGN, LLC  
345 HIGHLAND AVE.  
CHESHIRE, CT 06810

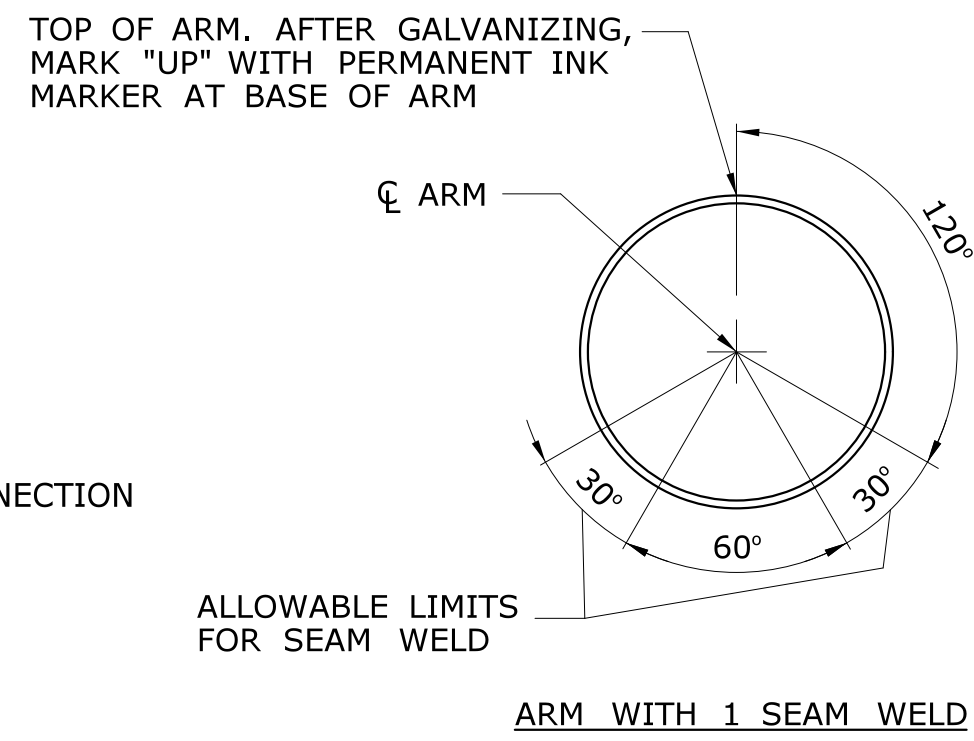
PROJECT TITLE:  
**CITY OF MERIDEN  
INTERSECTION IMPROVEMENTS**

TOWN: **MERIDEN**  
DRAWING TITLE:  
**MAST-ARM & SPAN POLE  
FOUNDATION DETAILS**

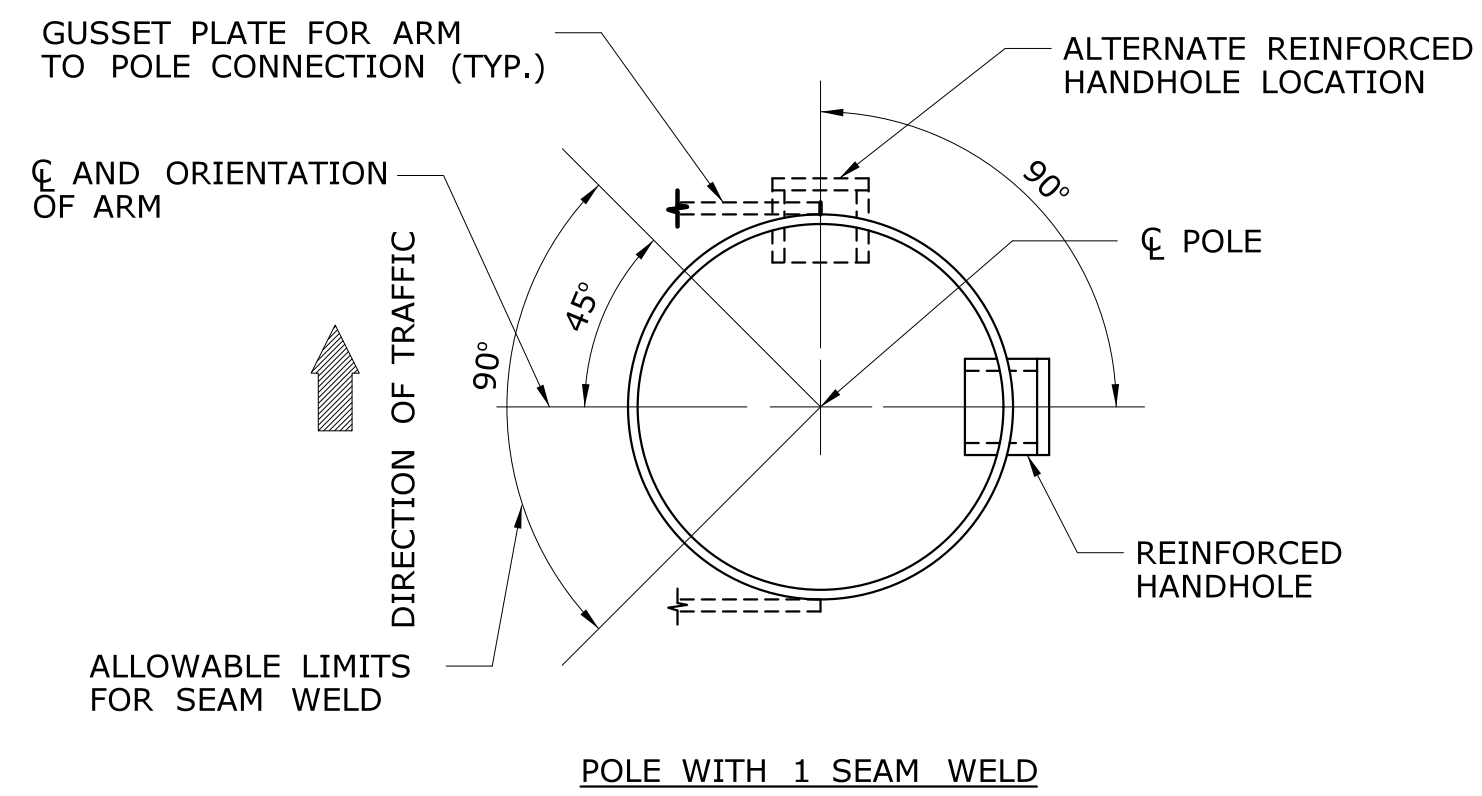
PROJECT NO.: **232593**  
DRAWING NO.: **S-4**  
SHEET NO.: **55**



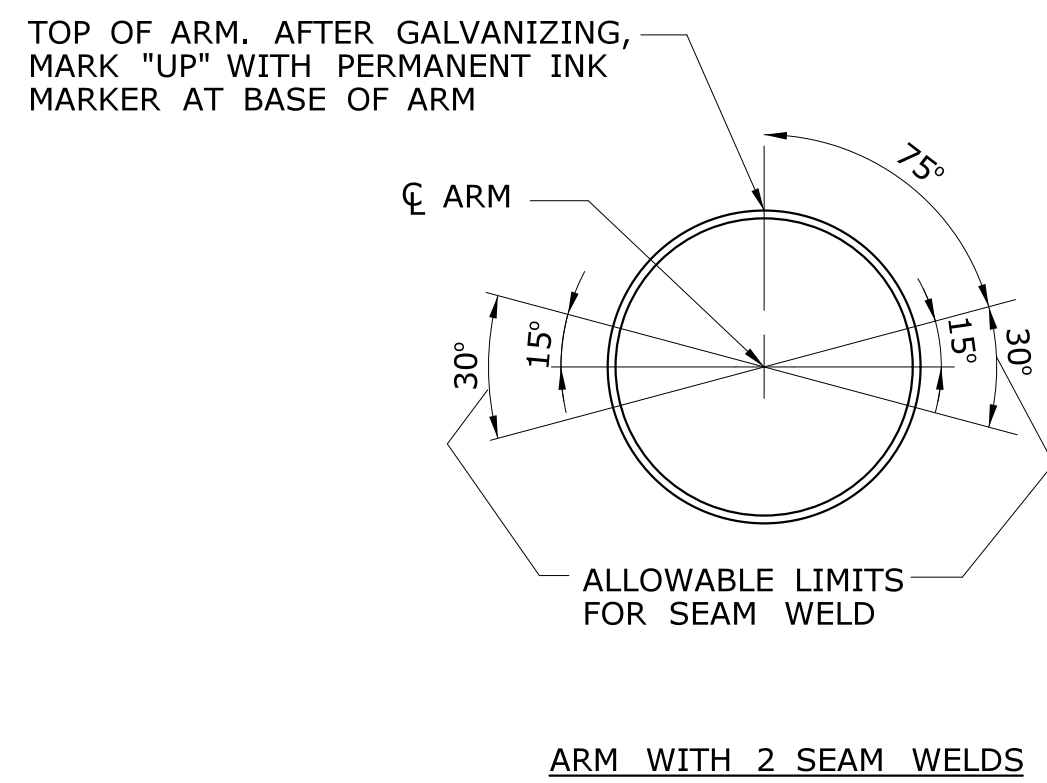
**SPAN POLE & MAST ARM ELEVATION**  
N.T.S.



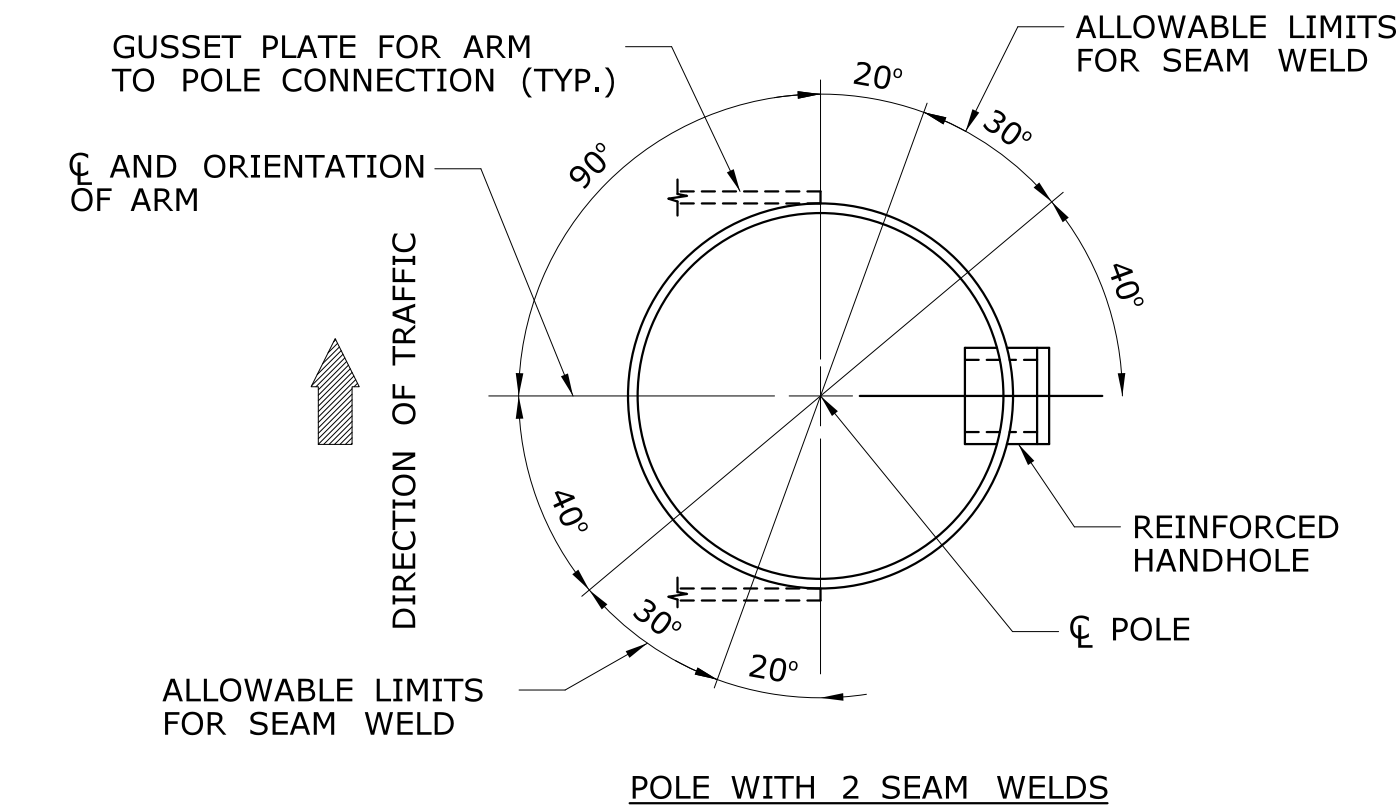
**ARM WITH 1 SEAM WELD**



**POLE WITH 1 SEAM WELD**



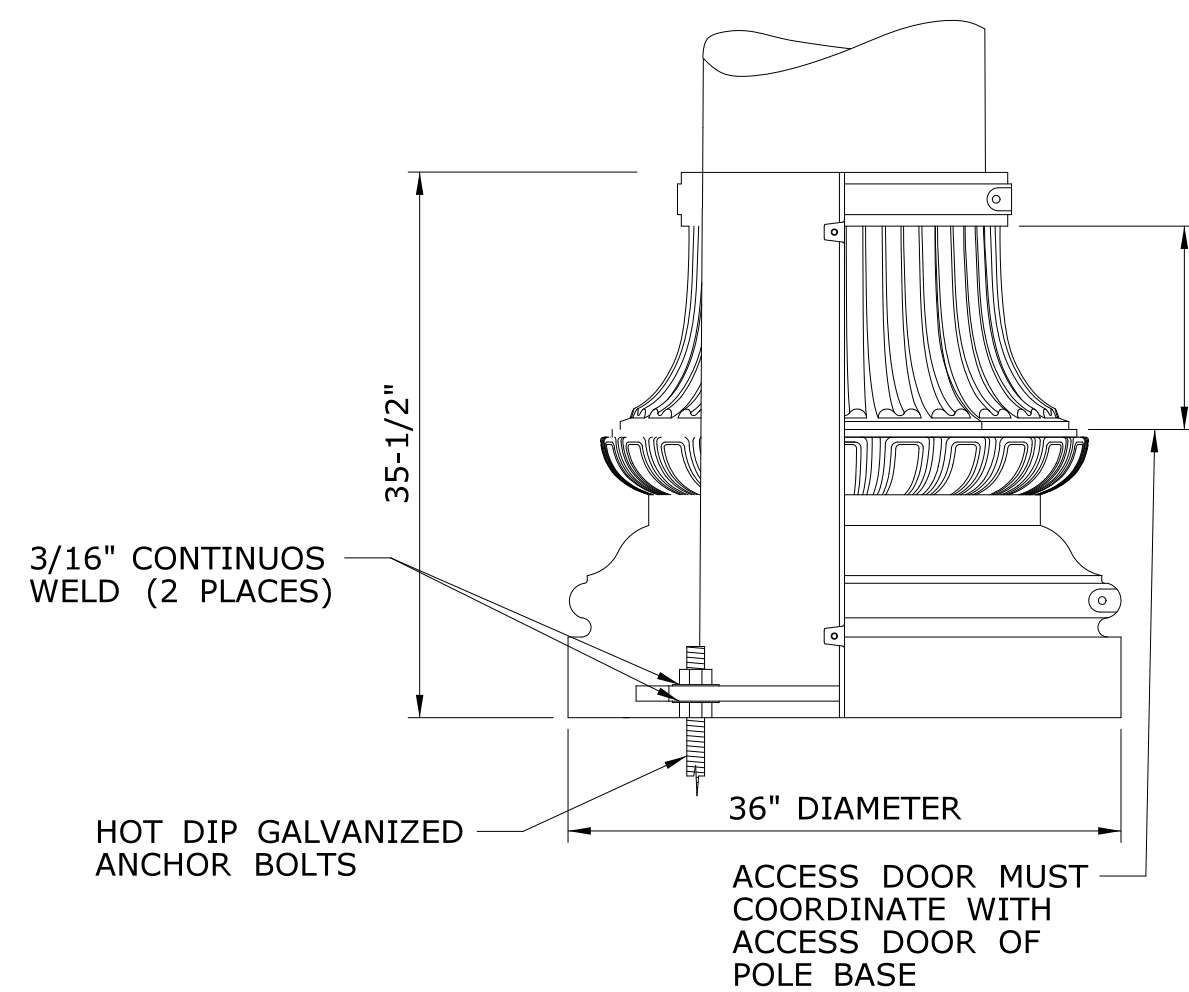
**ARM WITH 2 SEAM WELDS**



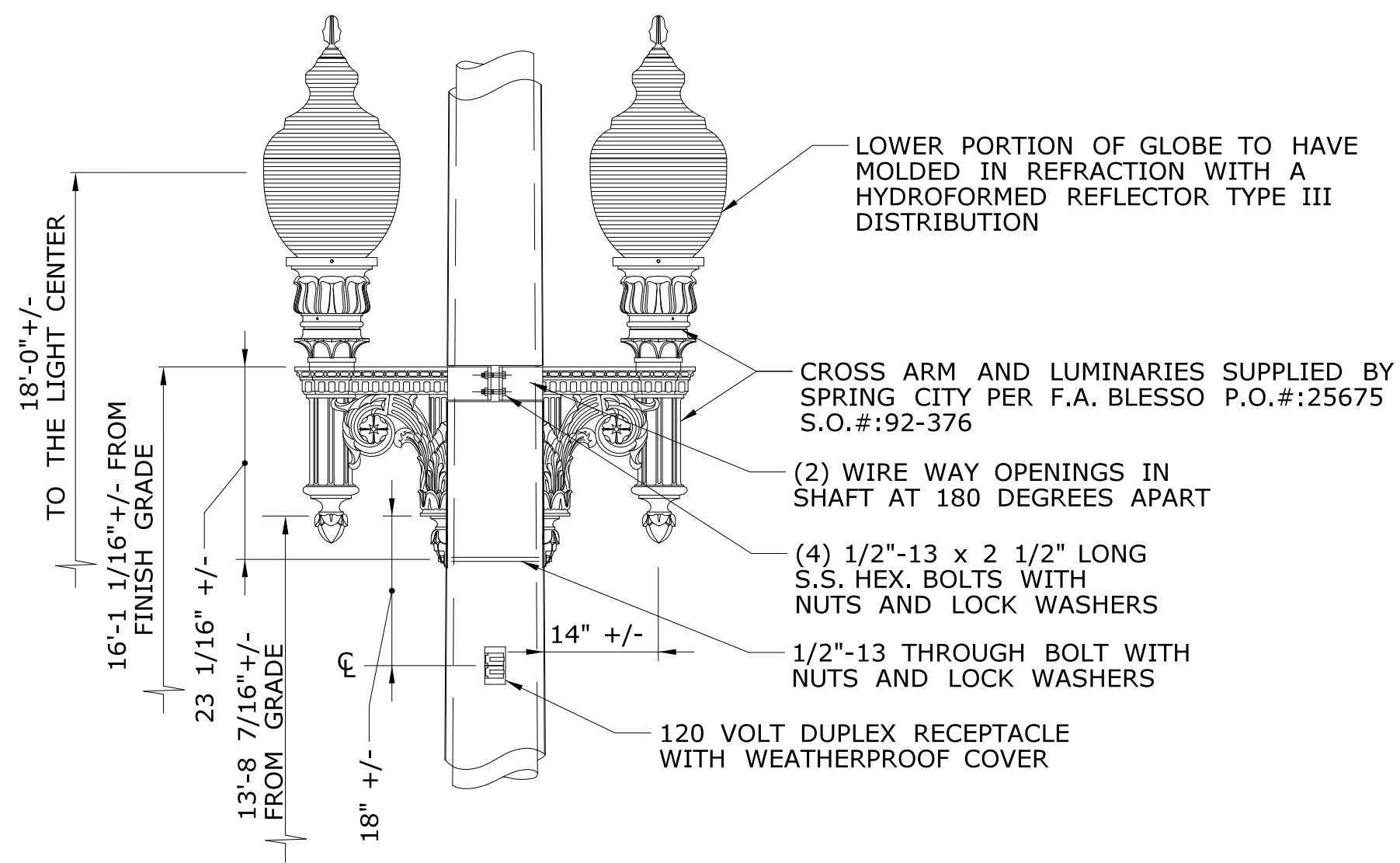
**POLE WITH 2 SEAM WELDS**

**SECTION**  
SCALE: 1 1/2" = 1'-0"

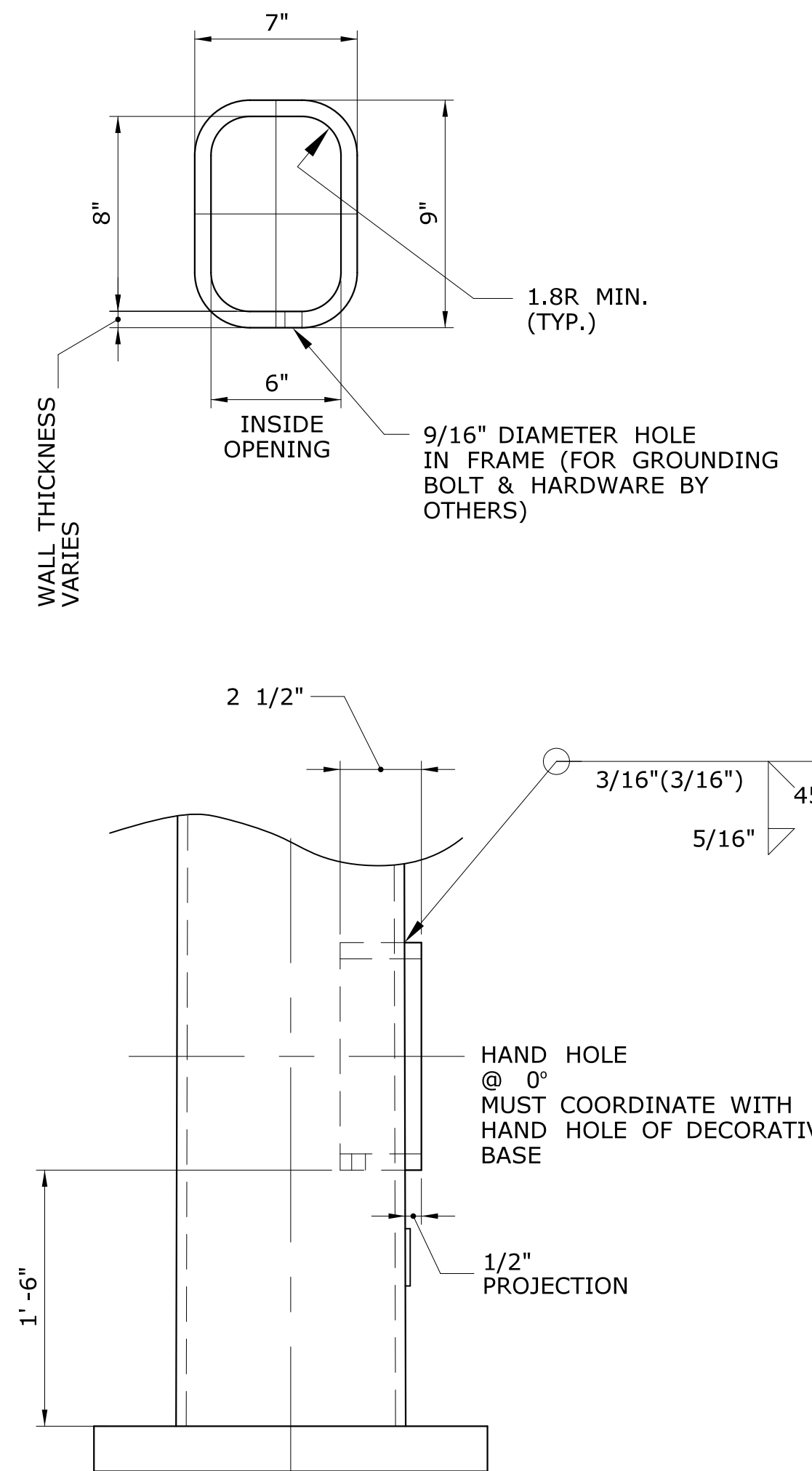
**SECTION**  
SCALE: 1 1/2" = 1'-0"



**WASHINGTON 36" TRAFFIC BASE**  
N.T.S.



**FACING VIEW OF LUMINAIRE CROSS ARM**  
N.T.S.



**LOWER HAND HOLE DETAILS**  
N.T.S.

**GENERAL NOTES:**

1. DECORATIVE BASE AND LIGHT ARM DETAILS ARE PER SPRING CITY ELECTRICAL MANUFACTURING COMPANY OR APPROVED EQUAL.
2. DECORATIVE BASE SHALL CONFORM TO SPRING CITY NORTHAMPTON MODEL 36" TRAFFIC BASE OR APPROVED EQUAL AND SHALL ACCOMMODATE UP TO 18" O.D. AT BASE AND SHALL CONFORM TO CAST DUCTILE IRON PER A536-84 GRADE 65-45-12.
3. THE DECORATIVE LIGHT ARM SHALL CONFORM TO SPRING CITY WASHINGTON ORNATE MODEL OR APPROVED EQUAL AND SHALL BE CAST DUCTILE IRON PER A536-84, GRADE 65-45-12.
4. MATERIAL COLOR SHALL BE BLACK (FEDERAL SPECIFICATION TT-E-489)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE AS NOTED

**CDM Smith**  
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SIGNATURE/BLOCK:  
  
RHS CONSULTING DESIGN, LLC  
345 HIGHLAND AVE.  
CHESHIRE, CT 06410

PROJECT TITLE:  
**CITY OF MERIDEN  
INTERSECTION IMPROVEMENTS**

TOWN: **MERIDEN**  
DRAWING TITLE: **DECORATIVE DETAILS**

PROJECT NO.: **232593**  
DRAWING NO.: **S-5**  
SHEET NO.: **56**






Connecticut DOT Boring Report										Hole No.: B-1		
Driller: A. Mckerna		Inspector: T. Ta						Town: Meriden		Stat./Offset:		
Engineer: Allison McCauliffe		Project No.: 2018-0108						Northing:				
Start Date: 11-19-19		Route No.:						Easting:				
Finish Date: 11-19-19		Bridge No.:						Surface Elevation: 149.0				
Project Description: Town of Meriden TOD Signal Upgrades												
Casing Size/Type: 3.25" HSA				Sampler Type/Size: 1-3/8 inch ID				Core Barrel Type:				
Hammer Wt.: Fall: in. Hammer Wt.: 140				Fall: 30in.								
Groundwater Observations: Not Encountered												
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)	SAMPLES			
0						Asphalt Fill	Asphalt (3")					
	S-1	13 15 17 10	24	10		Glacial Till	Gray c-f SAND, some m-f gravel, little silt, with brick Gray c-f SAND, some m-f gravel, little silt Red brown c-f SAND, some silt	145				
	S-2	13 47 44 108	24	20								
5	S-3	100/4"	4	4			Red brown f SAND, some silt, trace f gravel	140				
10	S-4	100/5"	5	5			Red brown f SAND, some silt, trace f gravel	135				
15	S-5	100/2"	2	2			Red brown f SAND, some silt, trace f gravel	130				
20	S-6	100/2"	2	2		Weathered Rock	Dramatically slower drilling rate, pieces of gravel observed in cuttings	125				
							Weathered bedrock					
							END OF BORING 20.2ft					
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%												
Total Penetration in Earth: 17ft Rock: 3.2ft		NOTES:						Sheet 1 of 1				
No. of Soil Samples: 6		Core Runs: ---						SM-001.M REV. 1/02				

Connecticut DOT Boring Report										Hole No.: B-2		
Driller: A. Mckerna		Inspector: T. Ta						Town: Meriden		Stat./Offset:		
Engineer: Allison McCauliffe		Project No.: 2018-0108						Northing:				
Start Date: 11-19-19		Route No.:						Easting:				
Finish Date: 11-19-19		Bridge No.:						Surface Elevation: 119.5				
Project Description: Town of Meriden TOD Signal Upgrades												
Casing Size/Type: 3.25" HSA				Sampler Type/Size: 1-3/8 inch ID				Core Barrel Type:				
Hammer Wt.: Fall: in. Hammer Wt.: 140				Fall: 30in.								
Groundwater Observations: @7.0 ATD												
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)	SAMPLES			
0						Concrete Fill	Concrete (4")					
	S-1	9 10 11 12	24	10			Gray to brown c-f SAND, little m-f gravel, little silt, with red gravel	115				
	S-2	2 1 1 2	24	4			Gray to brown c-f SAND, some silt, little m-f gravel					
5	S-3	2 4 3 2	24	18		Organic Silt	Gray brown c-f SAND, little silt, trace m-f gravel Dark gray SILT, some f sand, with organic fibers	110				
	S-4	8 8 11 10	24	16		Glaciofluvial	Dark gray SILT, little f sand, with organic fibers Red brown c-f SAND, little m-f gravel, little silt, intermixed with gray c-f sand					
10	S-5	8 10 15 17	24	22			Brown c-f SAND, little silt	105				
15	S-6	9 9 14 17	24	14		Lacustrine	Brown SILT, little f sand	100				
20	S-7	8 11 15 16	24	20			Brown SILT, little f sand	95				
	S-8	9 10 14 14	24	22			Brown SILT					
25							END OF BORING 25ft					
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%												
Total Penetration in Earth: 25ft Rock: ft		NOTES:						Sheet 1 of 1				
No. of Soil Samples: 8		Core Runs: ---						SM-001.M REV. 1/02				

Connecticut DOT Boring Report										Hole No.: B-3		
Driller: A. Mckerna		Inspector: T. Ta						Town: Meriden		Stat./Offset:		
Engineer: Allison McCauliffe		Project No.: 2018-0108						Northing:				
Start Date: 11-22-19		Route No.:						Easting:				
Finish Date: 11-22-19		Bridge No.:						Surface Elevation: 136.75				
Project Description: Town of Meriden TOD Signal Upgrades												
Casing Size/Type: 3.25" HSA				Sampler Type/Size: 1-3/8 inch ID				Core Barrel Type:				
Hammer Wt.: Fall: in. Hammer Wt.: 140				Fall: 30in.								
Groundwater Observations: @8.0 ATD												
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)	SAMPLES			
0						Concrete Base Fill	Concrete (4")					
	S-1	11 21 19 4	24	12			Gray c-f SAND, some c-f gravel, trace silt, Gravel Base (8") Brown c-f SAND, little c-f gravel, little silt, with brick Brown c-f SAND, little c-f gravel, little silt, with concrete and bricks	135				
	S-2	16 21 22 39	24	10								
5	S-3	9 6 8 11	24	18		Glaciofluvial	Brown c-f SAND, little c-f gravel, little silt	130				
	S-4	14 16 15 16	24	18		Lacustrine	Brown c-f SAND, little m-f gravel, little silt Brown SILT, trace f-sand					
10	S-5	10 12 9 13	24	16			Brown SILT, trace f-sand	125				
15	S-6	4 4 5 9	24	20			Brown SILT, trace f-sand	120				
20	S-7	6 9 10 11	24	22			Brown SILT, trace f-sand	115				
	S-8	6 8 9 13	24	22			Brown SILT, trace f-sand					
25							END OF BORING 25ft	110				
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%												
Total Penetration in Earth: 25ft Rock: ft		NOTES:						Sheet 1 of 1				
No. of Soil Samples: 8		Core Runs: ---						SM-001.M REV. 1/02				

Connecticut DOT Boring Report										Hole No.: B-4		
Driller: A. Mckerna		Inspector: T. Ta						Town: Meriden		Stat./Offset:		
Engineer: Allison McCauliffe		Project No.: 2018-0108						Northing:				
Start Date: 11-19-19		Route No.:						Easting:				
Finish Date: 11-19-19		Bridge No.:						Surface Elevation: 133.5				
Project Description: Town of Meriden TOD Signal Upgrades												
Casing Size/Type: 3.25" HSA				Sampler Type/Size: 1-3/8 inch ID				Core Barrel Type:				
Hammer Wt.: Fall: in. Hammer Wt.: 140				Fall: 30in.								
Groundwater Observations: @7.0 ATD												
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)	SAMPLES			
0						Asphalt Fill	Asphalt (3")					
	S-1	10 5 2 2	24	8			Gray c-f SAND, some m-f gravel, little silt	130				
	S-2	2 2 2 2	24	8			Gray c-f SAND, some m-f gravel, little silt					
5	S-3	4 4 4 6	24	4		Lacustrine	Gray to brown c-f SAND, some m-f gravel, little silt Brown f SAND, and silt	125				
	S-4	7 8 6 9	24	16			Brown f SAND, and silt, 3" layer of c-f sand with dark brown lenses					
10	S-5	6 5 3 5	24	22			Brown SILT, trace f-sand	120				
15	S-6	4 2 2 5	24	22			Brown SILT, trace f-sand	115				
20	S-7	5 9 10 9	24	22			Brown SILT, trace f-sand					
	S-8	9 11 13 14	24	22			Brown SILT, trace f-sand, trace f-gravel towards upper portion of sample	110				
25							END OF BORING 25ft					
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%												
Total Penetration in Earth: 25ft Rock: ft		NOTES:						Sheet 1 of 1				
No. of Soil Samples: 8		Core Runs: ---						SM-001.M REV. 1/02				

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/14/2021	DESIGNER/DRAFTER: <b>D.A.S.</b>	CHECKED BY: <b>R.H.S.</b>	SCALE AS NOTED	 <b>CDM Smith</b> <small>77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM</small>	 <b>RHS Consulting Design, LLC</b> <small>ENGINEERING - SURVEYING - CONSTRUCTION INSPECTION 345 HIGHLAND AVE, CHEBRIE, CT 06410 TEL. 203-439-9340 • FAX 203-439-9342</small>	SIGNATURE/BLOCK: 	PROJECT TITLE: <b>CITY OF MERIDEN INTERSECTION IMPROVEMENTS</b>	TOWN: <b>MERIDEN</b>	PROJECT NO.: <b>232593</b>
											DRAWING NO.: <b>S-6</b>		
											<b>BORING LOGS - 1</b>	SHEET NO.: <b>57</b>	

Driller: A. Mckerna		Connecticut DOT Boring Report		Hole No.: B-5				
Inspector: T. Ta	Town: Meriden	Stat./Offset:						
Engineer: Allison McCauliffe	Project No.: 2018-0108	Northing:						
Start Date: 11-20-19	Route No.:	Easting:						
Finish Date: 11-20-19	Bridge No.:	Surface Elevation: 130.0						
Project Description: Town of Meriden TOD Signal Upgrades								
Casing Size/Type: 3.25" HSA		Sampler Type/Size: 1-3/8 inch ID		Core Barrel Type:				
Hammer Wt.: Fall: In.		Hammer Wt.: 140		Fall: 30in.				
Groundwater Observations: @6 ATD								
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						Asphalt Base Fill	Asphalt (3") Gravel Base (6") Auger kept walking lifting up the pavement patch, had to break asphalt and drill down. Brown c-f SAND, some m-f gravel, little silt	130
1	S-1	5 4 6 6	24	8				
2	S-2	6 8 6 7	24	1			Brown c-f SAND, some m-f gravel, little silt, gravel lodged at tip	
3	S-3	8 8 8 8	24	16		Lacustrine	Brown c-f SAND, little m-f gravel, little silt	125
4	S-4	6 8 8 8	24	20			Brown f SAND, some silt	
5	S-5	3 2 2 3	24	22			Brown f SAND, and silt	120
6	S-6	4 6 8 8	24	22			Brown SILT	115
7	S-7	6 6 6 8	24	22			Brown SILT	110
8	S-8	6 8 8 8	24	22			Brown SILT	105
END OF BORING 25ft								
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test						Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%		
Total Penetration in Earth: 25ft Rock: ft		NOTES:		Sheet 1 of 1				
No. of Soil Samples: 8	No. of Core Runs: ---							SM-001.M REV. 1/02

Driller: M. St. John		Connecticut DOT Boring Report		Hole No.: B-6				
Inspector: T. Ta	Town: Meriden	Stat./Offset:						
Engineer: Allison McCauliffe	Project No.: 2018-0108	Northing:						
Start Date: 11-25-19	Route No.:	Easting:						
Finish Date: 11-25-19	Bridge No.:	Surface Elevation: 128.25						
Project Description: Town of Meriden TOD Signal Upgrades								
Casing Size/Type: 3.25" HSA		Sampler Type/Size: 1-3/8 inch ID		Core Barrel Type:				
Hammer Wt.: Fall: In.		Hammer Wt.: 140		Fall: 30in.				
Groundwater Observations: @12.0 ATD								
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						Concrete Base Fill	Concrete (8") Gray c-f SAND, some c-f gravel, little silt, (gravel base 8")	
1	S-1	4 5 13 10	24	10			Brown c-f SAND, little c-f gravel, little silt	125
2	S-2	6 7 7 14	24				Brown c-f SAND, little c-f gravel, little silt	
3	S-3	3 27 33 16	24	14			Brown c-f SAND, some silt	
4	S-4	3 2 3 17	24	14		Organics	Brown c-f SAND, some c-f gravel, little silt	120
5						Glaciofluvial	Dark brown black SILT, with organic fibers	
6	S-5	15 18 12 14	24	8			Brown c-f SAND, little m-f gravel, little silt	120
7	S-6	21 25 33 27	24	4			Brown c-f SAND, some c-f gravel, some silt	115
8	S-7	14 15 30 28	24	24			Brown c-f SAND, little f gravel, trace silt	110
9	S-8	23 24 28 27	24	24			Brown c-f SAND, little f gravel, trace silt	105
END OF BORING 25ft								
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test						Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%		
Total Penetration in Earth: 25ft Rock: ft		NOTES:		Sheet 1 of 1				
No. of Soil Samples: 8	No. of Core Runs: ---							SM-001.M REV. 1/02

Driller: M. St. John		Connecticut DOT Boring Report		Hole No.: B-7				
Inspector: T. Ta	Town: Meriden	Stat./Offset:						
Engineer: Allison McCauliffe	Project No.: 2018-0108	Northing:						
Start Date: 11-25-19	Route No.:	Easting:						
Finish Date: 11-25-19	Bridge No.:	Surface Elevation: 130.5						
Project Description: Town of Meriden TOD Signal Upgrades								
Casing Size/Type: 3.25" HSA		Sampler Type/Size: 1-3/8 inch ID		Core Barrel Type:				
Hammer Wt.: Fall: In.		Hammer Wt.: 140		Fall: 30in.				
Groundwater Observations: @14.0 ATD								
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						Topssoil Fill	Topssoil (3") Brown c-f SAND, little f gravel, little silt	130
1	S-1	3 3 10 12	24	14			Brown c-f SAND, little c-f gravel, little silt, with asphalt	
2	S-2	10 6 6 7	24	18		Glaciofluvial	Brown c-f SAND, little c-f gravel, little silt	125
3	S-3	7 8 12 16	24	20			Red brown c-f SAND, little f gravel, trace silt	125
4	S-4	14 14 14 30	24	16			Red brown c-f SAND, some silt, little m-f gravel	
5	S-5	10 10 17 18	24	18		Glacial Till	Red brown c-f SAND, some silt, little m-f gravel	120
6	S-6	22 31 36 32	24	12			Red brown c-f SAND, some silt, trace m-f gravel	115
7	S-7	100/3"	3	2			Red brown c-f SAND, some silt, little m-f gravel	110
END OF BORING 20.3ft								
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test						Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%		
Total Penetration in Earth: 20.3ft Rock: ft		NOTES:		Sheet 1 of 1				
No. of Soil Samples: 7	No. of Core Runs: ---							SM-001.M REV. 1/02

Driller: A. Mckerna		Connecticut DOT Boring Report		Hole No.: B-8				
Inspector: T. Ta	Town: Meriden	Stat./Offset:						
Engineer: Allison McCauliffe	Project No.: 2018-0108	Northing:						
Start Date: 11-20-19	Route No.:	Easting:						
Finish Date: 11-20-19	Bridge No.:	Surface Elevation: 134.5						
Project Description: Town of Meriden TOD Signal Upgrades								
Casing Size/Type: 3.25" HSA		Sampler Type/Size: 1-3/8 inch ID		Core Barrel Type:				
Hammer Wt.: Fall: In.		Hammer Wt.: 140		Fall: 30in.				
Groundwater Observations: @9.0 ATD								
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						Concrete Base Fill	Concrete (4") Gravel Base (6")	
1	S-1	15 14 7 5	24	10			Brown to black c-f SAND, little c-f gravel, little silt, with coal and brick	130
2	S-2	5 7 6 4	24	10			Dark brown c-f SAND, little silt, with brick	
3	S-3	18 13 9 9	24	16		Glaciofluvial	Brown c-f SAND, little m-f gravel, little silt	130
4	S-4	13 11 9 8	24	16			Brown c-f SAND, little silt	
5						Lacustrine	Brown f SAND, some silt, 1" pockets of sand trace silt (wet at tip of spoon)	125
6	S-5	6 7 6 8	24	16			Brown CLAY, trace f-sand	120
7	S-6	6 8 7 12	24	18			Brown CLAY, trace f-sand	120
8	S-7	14 14 19 15	24	18			Brown CLAY, trace f-sand	115
9	S-8	14 14 14 13	24	20			Brown CLAY, trace f-sand	110
END OF BORING 25ft								
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test						Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%		
Total Penetration in Earth: 25ft Rock: ft		NOTES:		Sheet 1 of 1				
No. of Soil Samples: 8	No. of Core Runs: ---							SM-001.M REV. 1/02

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER: **D.A.S.**  
 CHECKED BY: **R.H.S.**  
 SCALE AS NOTED

**CDM Smith**  
 77 HARTLAND STREET, SUITE 201  
 EAST HARTFORD, CT 06108  
 PHONE: 860-529-7615  
 FAX: 860-590-7645  
 WWW.CDMSMITH.COM

**RHS Consulting Design, LLC**  
 ENGINEERING - SURVEYING - CONSTRUCTION INSPECTION  
 345 HIGHLAND AVE., CHESHIRE, CT 06410  
 TEL. 203-439-9340 - FAX 203-439-9342

SIGNATURE/BLOCK:  


PROJECT TITLE:  
**CITY OF MERIDEN  
 INTERSECTION IMPROVEMENTS**




TOWN: **MERIDEN**  
 DRAWING TITLE:  
**BORING LOGS - 2**

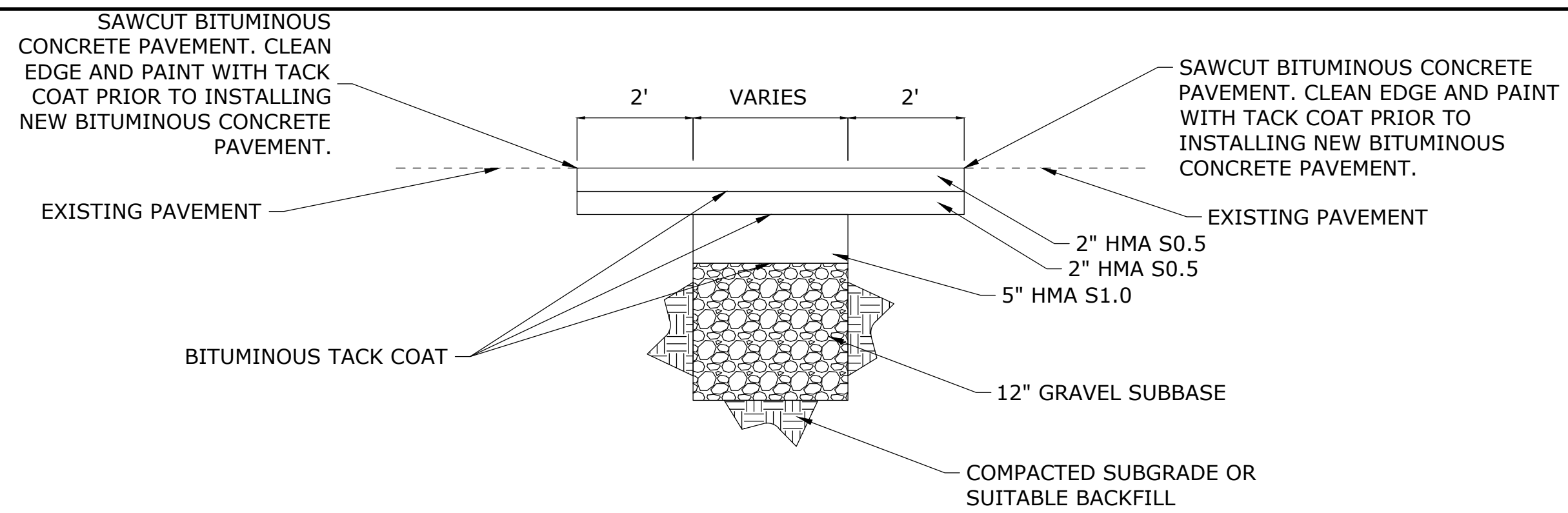
PROJECT NO.: **232593**  
 DRAWING NO.: **S-7**  
 SHEET NO.: **58**

Driller: A. Mckerna		<b>Connecticut DOT Boring Report</b>				Hole No.: B-9		
Inspector: T. Ta		Town: Meriden		Stat./Offset:				
Engineer: Allison McCauliffe		Project No.: 2018-0108		Northing:				
Start Date: 11-20-19		Route No.:		Easting:				
Finish Date: 11-20-19		Bridge No.:		Surface Elevation: 124.5				
Project Description: Town of Meriden TOD Signal Upgrades								
Casing Size/Type: 3.25" HSA		Sampler Type/Size: 1-3/8 inch ID		Core Barrel Type:				
Hammer Wt.: Fall: in.		Hammer Wt.: 140		Fall: 30in.				
Groundwater Observations: @10.0 ATD								
SAMPLES								
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	S-1	5 8 8 7	24	8		Fill	(Removed brick pavers) Brown to gray c-f SAND, some m-f gravel, little silt	
	S-2	8 10 15 26	24	12			Brown to gray c-f SAND, some c-f gravel, little silt, with brick	120
5	S-3	21 8 5 3	24	16			Brown to dark brown c-f SAND, little c-f gravel, little silt, with brick	
	S-4	10 8 5 5	24	14			Brown c-f SAND, little c-f gravel, some silt Dark brown f SAND, and silt, with decomposed wood	115
10	S-5	4 2 6 5	24	18		Glaciofluvial	Brown to dark brown c-f SAND, some silt, little m-f gravel, with organic fibers and decomposed wood Brown c-f SAND, some m-f gravel, little silt	
15	S-6	8 21 19 31	24	18		Lacustrine	Brown c-f SAND, some c-f gravel, little silt Brown f SAND, some silt	110
20	S-7	8 10 13 10	24	22			Brown CLAY, trace f-sand	105
25	S-8	7 18 13 15	24	22			Brown CLAY, trace f-sand	100
							END OF BORING 25ft	
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 25ft		Rock: ft		NOTES:		Sheet 1 of 1		
No. of Soil Samples: 8		No. of Core Runs: ---				SM-001-M REV. 1/02		

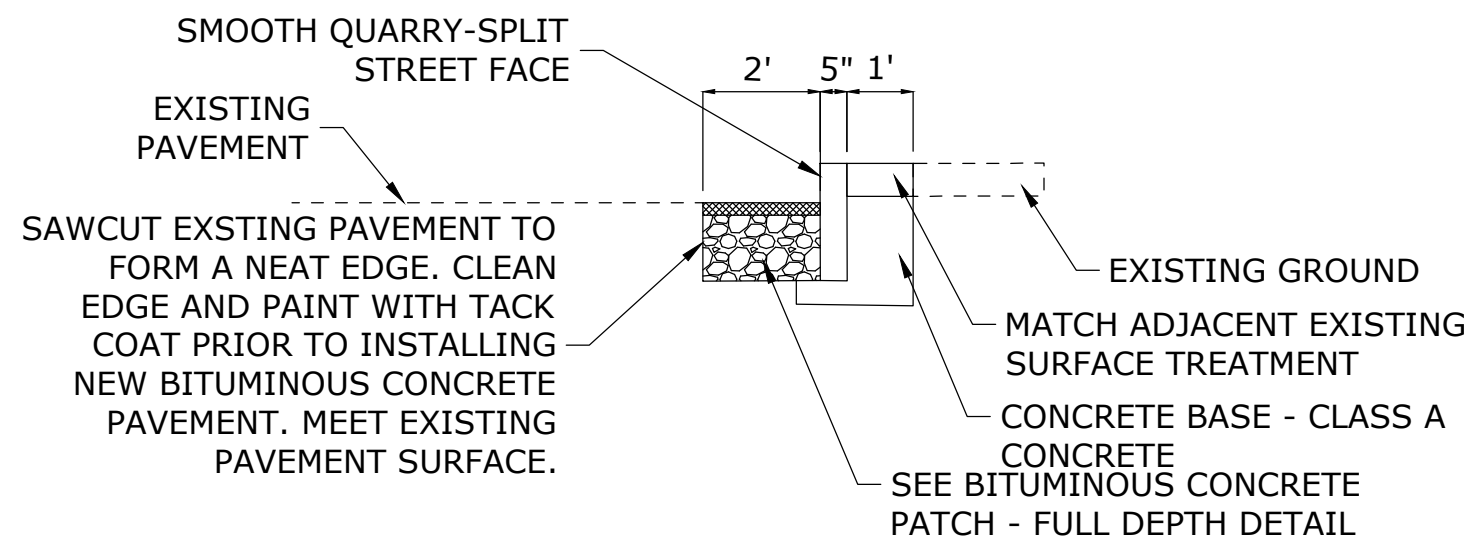
Driller: A. Mckerna		<b>Connecticut DOT Boring Report</b>				Hole No.: B-10		
Inspector: T. Ta		Town: Meriden		Stat./Offset:				
Engineer: Allison McCauliffe		Project No.: 2018-0108		Northing:				
Start Date: 11-21-19		Route No.:		Easting:				
Finish Date: 11-21-19		Bridge No.:		Surface Elevation: 119.0				
Project Description: Town of Meriden TOD Signal Upgrades								
Casing Size/Type: 3.25" HSA		Sampler Type/Size: 1-3/8 inch ID		Core Barrel Type:				
Hammer Wt.: Fall: in.		Hammer Wt.: 140		Fall: 30in.				
Groundwater Observations: @7.0 ATD								
SAMPLES								
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						Topsoil (3") Fill	Hand dug to 4ft to clear utilities. Augered to 5ft to make hole straight.	
5	S-1	3 8 18 20	24	18		Glaciofluvial	Brown to dark brown c-f SAND, little c-f gravel, little silt, (observed from hand dug cuttings)	115
	S-2	24 28 25 18	24	18			Brown c-f SAND, little c-f gravel, little silt	
10	S-3	6 2 9 17	24	10		Lacustrine	Brown c-f SAND, some c-f gravel, little silt	110
	S-4	6 8 9 11	24	16			Brown c-f SAND, little silt	
15	S-5	4 8 11 13	24	22			Brown CLAY varved with silt	105
	S-6	7 6 11 12	24	22			Brown CLAY varved with silt	100
20							Brown CLAY varved with silt	95
25							END OF BORING 25ft	
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 25ft		Rock: ft		NOTES:		Sheet 1 of 1		
No. of Soil Samples: 6		No. of Core Runs: ---				SM-001-M REV. 1/02		

Driller: A. Mckerna		<b>Connecticut DOT Boring Report</b>				Hole No.: B-11		
Inspector: T. Ta		Town: Meriden		Stat./Offset:				
Engineer: Allison McCauliffe		Project No.: 2018-0108		Northing:				
Start Date: 11-22-19		Route No.:		Easting:				
Finish Date: 11-22-19		Bridge No.:		Surface Elevation: 119.0				
Project Description: Town of Meriden TOD Signal Upgrades								
Casing Size/Type: 3.25" HSA		Sampler Type/Size: 1-3/8 inch ID		Core Barrel Type:				
Hammer Wt.: Fall: in.		Hammer Wt.: 140		Fall: 30in.				
Groundwater Observations: @4.0 ATD								
SAMPLES								
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						Concrete Base Fill	Concrete (4") Gray c-f SAND, little c-f gravel, little silt, Gravel Base (8")	
	S-1	14 14 10 7	24	10			Brown to black c-f SAND, little c-f gravel, little silt, with cinder Brown c-f SAND, little c-f gravel, little silt Brown f SAND, some silt, (very moist)	115
5	S-2	7 6 5 5	24	12		Glaciofluvial	Brown f SAND and SILT Brown c-f SAND and SILT, little m-f gravel	
	S-3	3 4 7 8	24	18			Brown to dark brown c-f SAND, little m-f gravel, little silt, organic fibers at 8.5ft	110
10	S-4	6 4 5 9	24	10		Lacustrine	Brown SILT, trace f sand	
15	S-5	15 17 15 18	24	20			Brown SILT, trace f sand, 2" pockets of c-f sand	105
	S-6	3 8 8 14	24	20			Brown SILT, trace f sand	100
20	S-7	3 15 6 7	24	20			Brown SILT, trace f sand	95
	S-8	5 7 7 8	24	22			Brown SILT, trace f sand	
25							END OF BORING 25ft	
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 25ft		Rock: ft		NOTES:		Sheet 1 of 1		
No. of Soil Samples: 8		No. of Core Runs: ---				SM-001-M REV. 1/02		

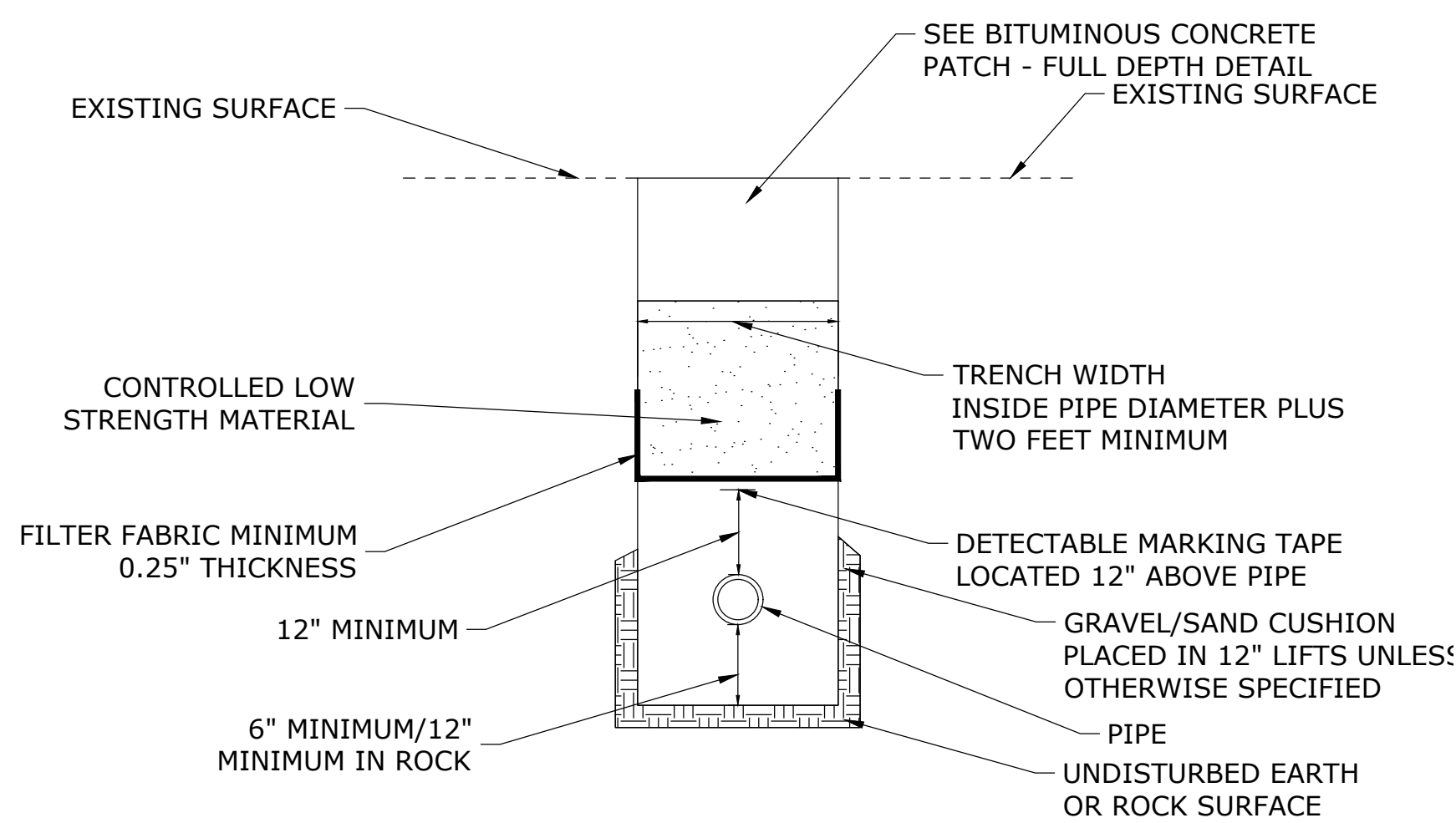
DESIGNER/DRAFTER: <b>D.A.S.</b>	 <b>CDM Smith</b> 77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7945 WWW.CDMSMITH.COM	 <b>RHS Consulting Design, LLC</b> ENGINEERING - SURVEYING - CONSTRUCTION INSPECTION 345 HIGHLAND AVE, CHESHIRE, CT 06410 TEL: 203-439-9340 - FAX 203-439-9342	SIGNATURE/BLOCK:  <small>RHS CONSULTING DESIGN, LLC          345 HIGHLAND AVE.          CHESHIRE, CT 06410</small>	PROJECT TITLE: <b>CITY OF MERIDEN          INTERSECTION IMPROVEMENTS</b>	TOWN: <b>MERIDEN</b>	PROJECT NO.: <b>232593</b>
CHECKED BY: <b>R.H.S.</b>					DRAWING TITLE: <b>BORING LOGS - 3</b>	DRAWING NO.: <b>S-8</b>
SCALE AS NOTED	Plotted Date: 1/14/2021	Filename: ...Boring Logs - 3.dgn				SHEET NO.: <b>59</b>



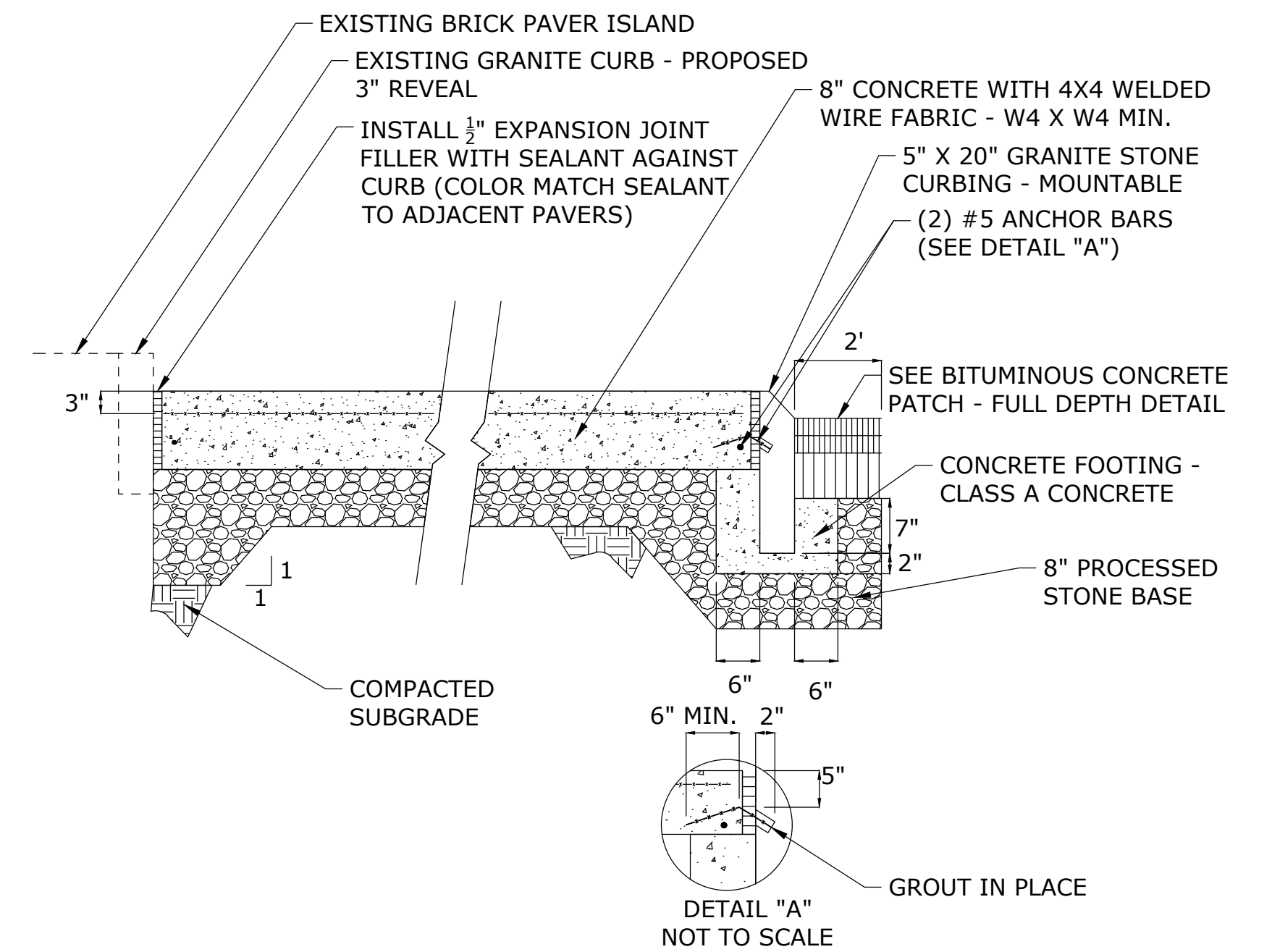
**BITUMINOUS CONCRETE PATCH - FULL DEPTH DETAIL**



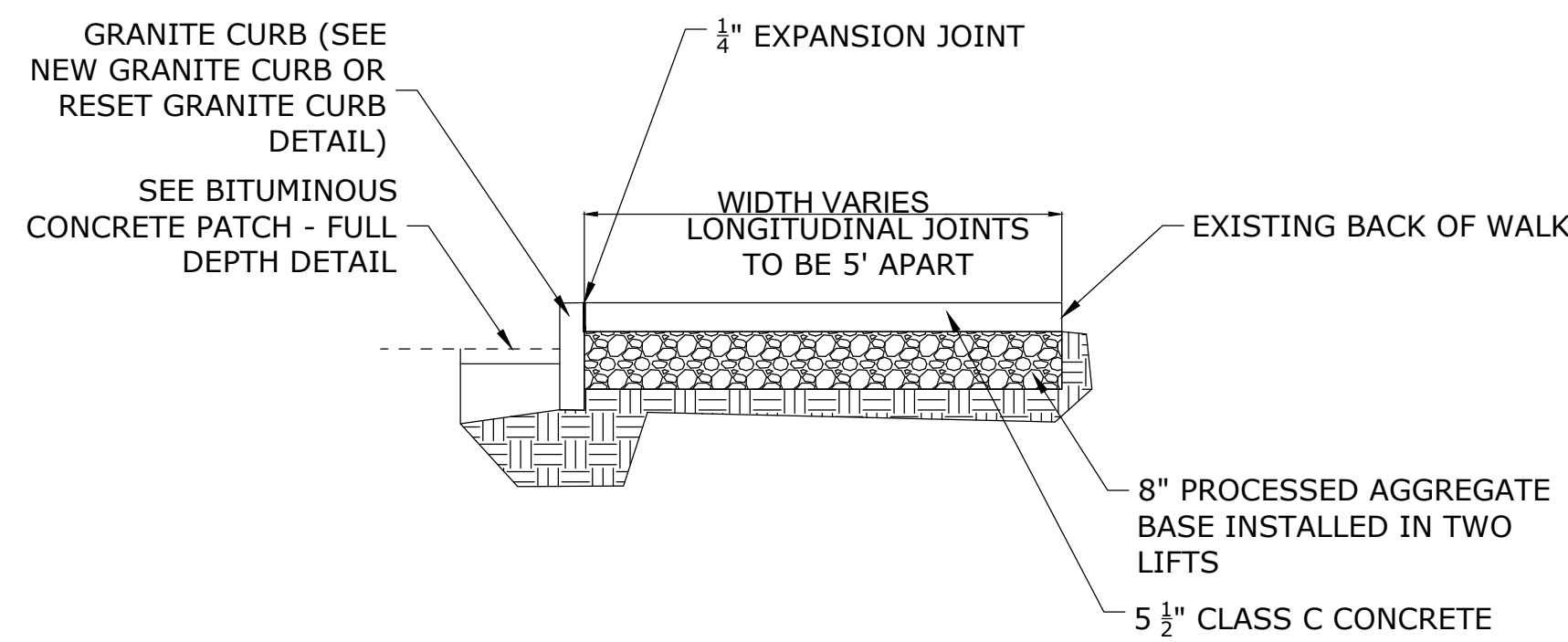
**NEW GRANITE CURB OR RESET GRANITE CURB**



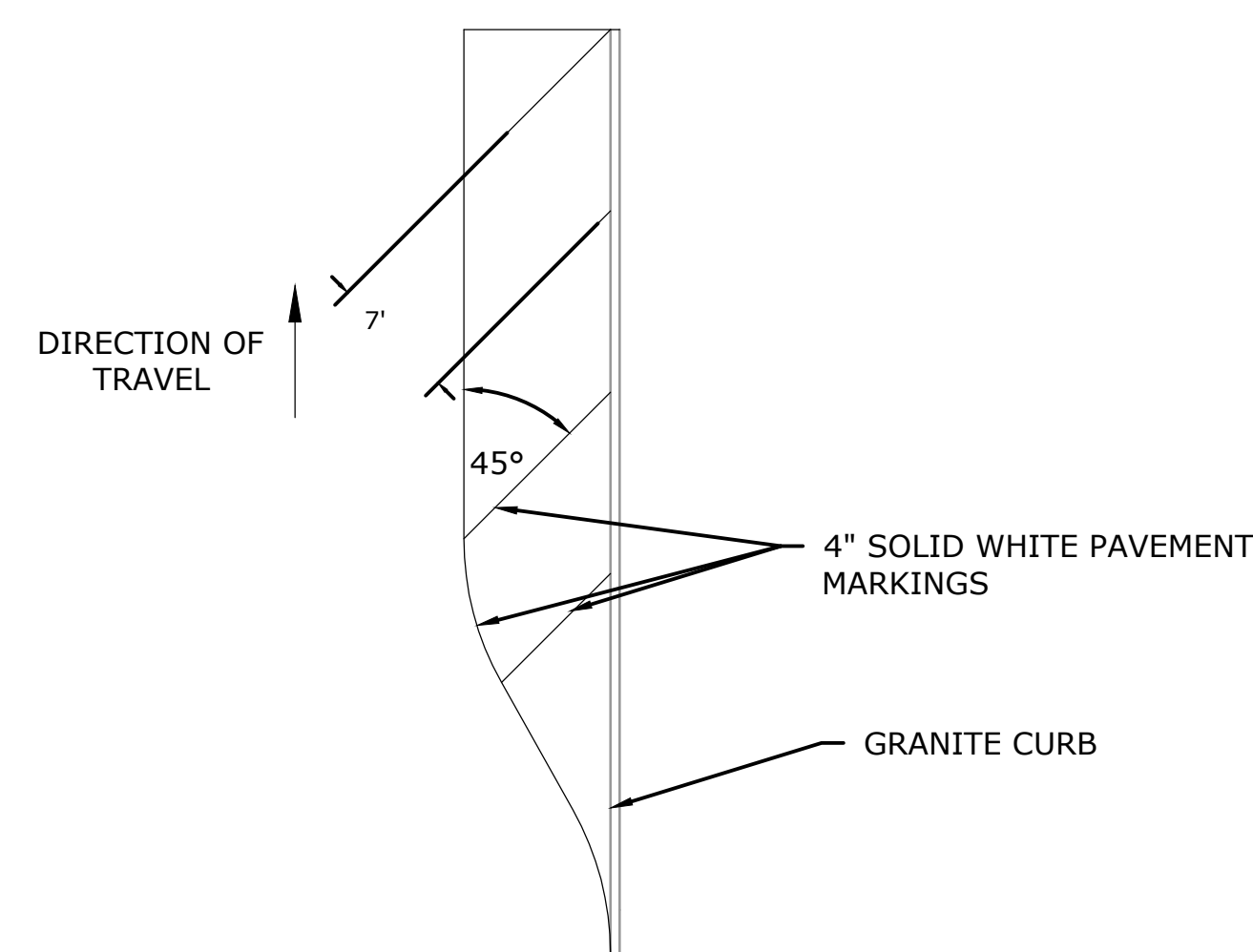
**TRENCHING AND BACKFILL**



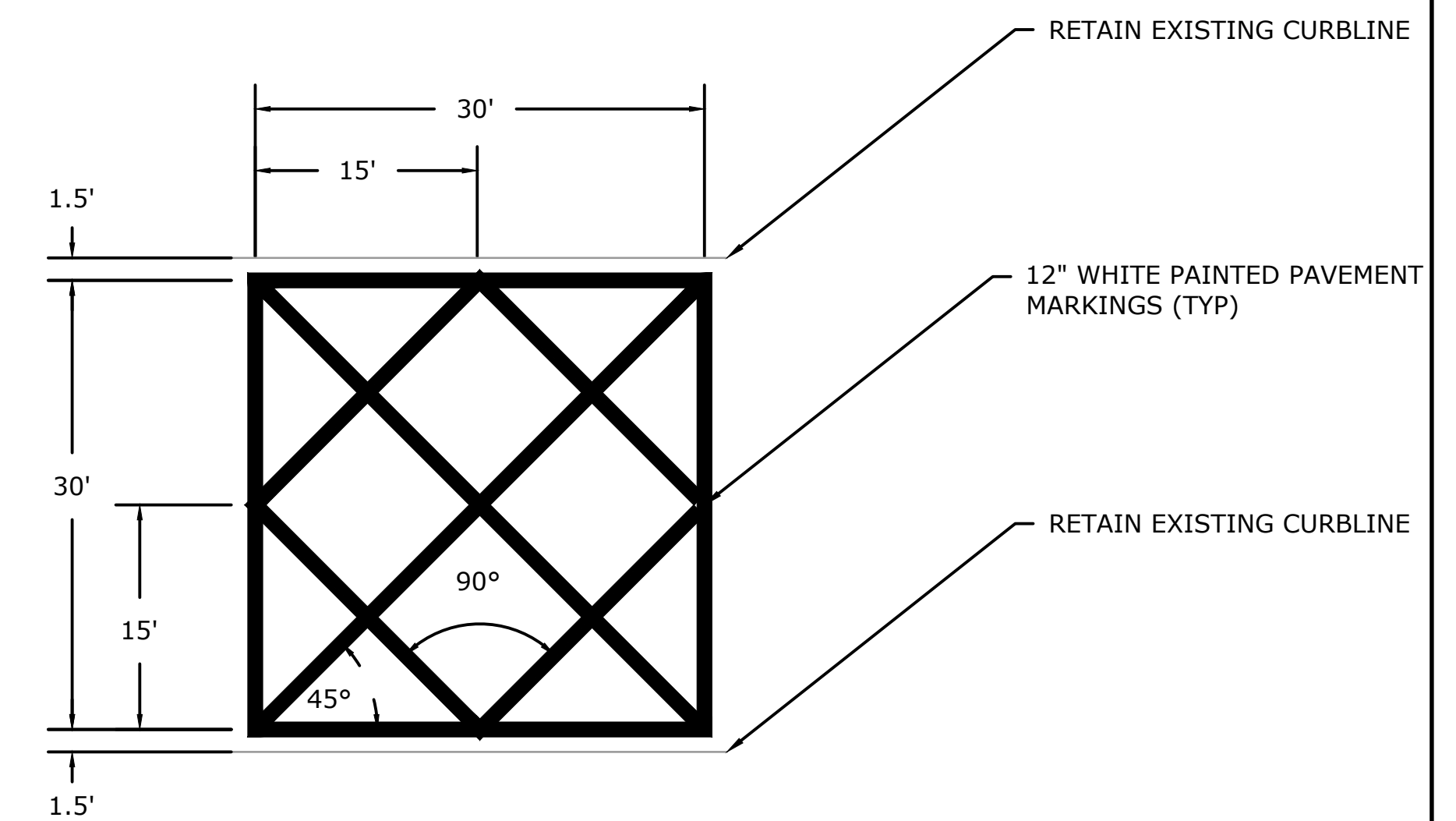
**MOUNTABLE CURB ISLAND DETAIL**



**SIDEWALK REPAIR**

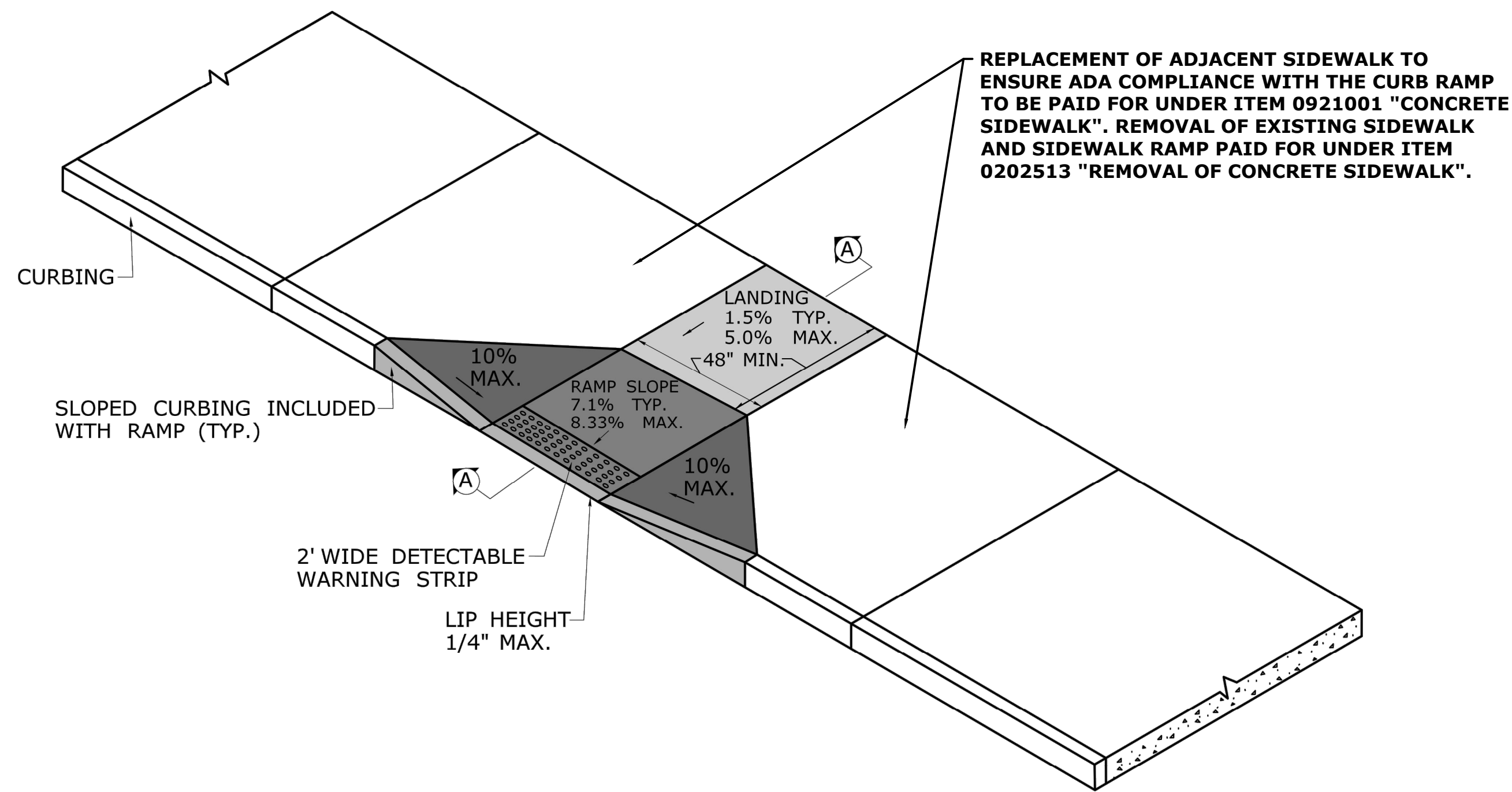


**WHITE CROSS HATCHED ISLAND DETAIL**

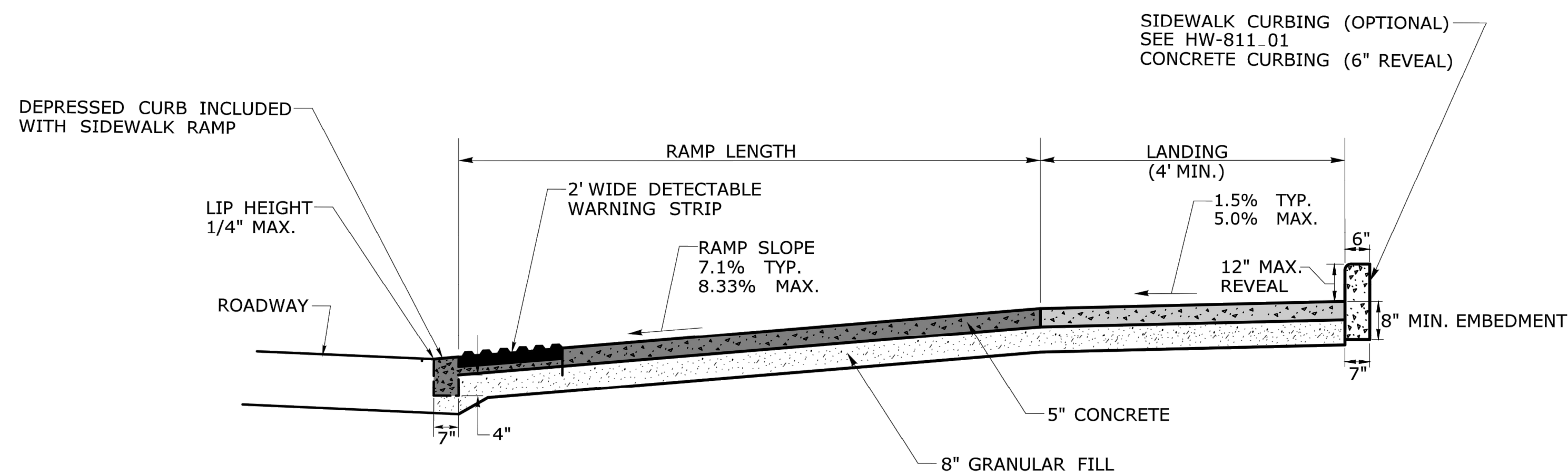


**NO STOPPING PAVEMENT MARKINGS**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/25/20	DESIGNER/DRAFTER: CJS	<p>77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM</p>	SIGNATURE/ BLOCK:		PROJECT TITLE:	TOWN:	PROJECT NO.
				CHECKED BY: SAH	<p><b>CITY OF MERIDEN</b> <b>INTERSECTION IMPROVEMENTS</b></p>				<p><b>MERIDEN</b></p>	<p><b>0079-0241</b></p>	
				NOT TO SCALE					<p><b>MISCELLANEOUS</b> <b>DETAILS SHEET</b></p>	<p><b>DET-01</b></p>	
						File name: HW_MSH_DET.DWG					<p><b>60</b></p>



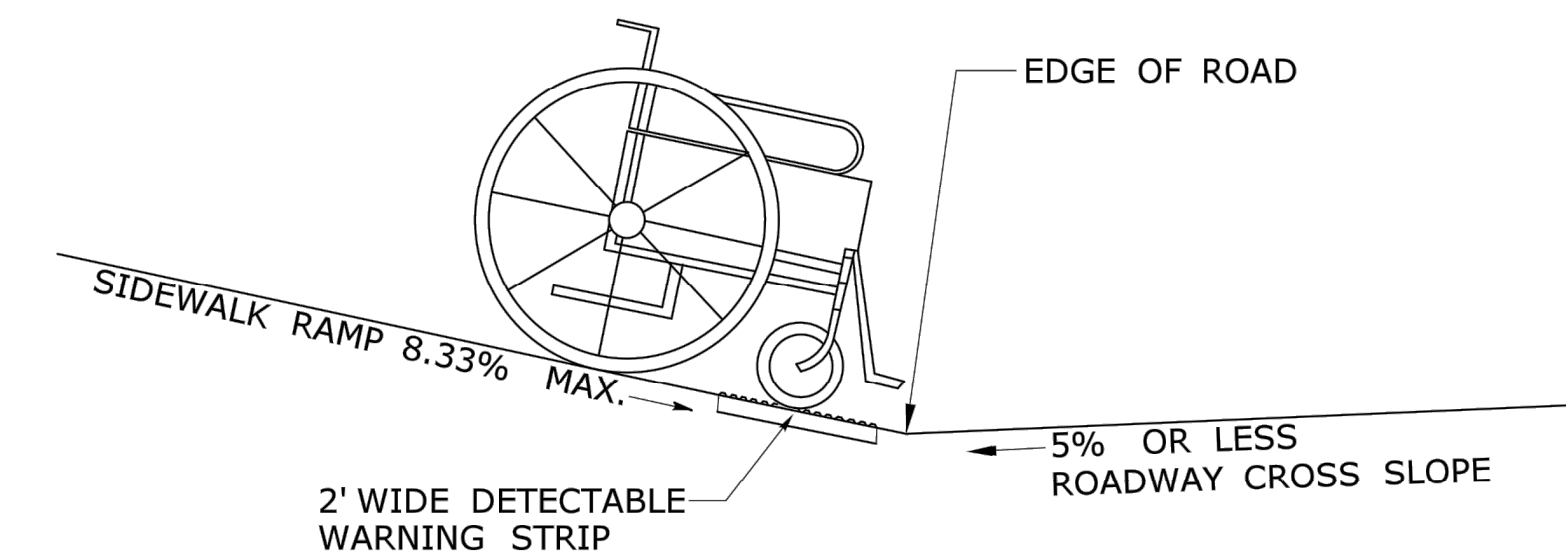
**PERPENDICULAR SIDEWALK RAMP**



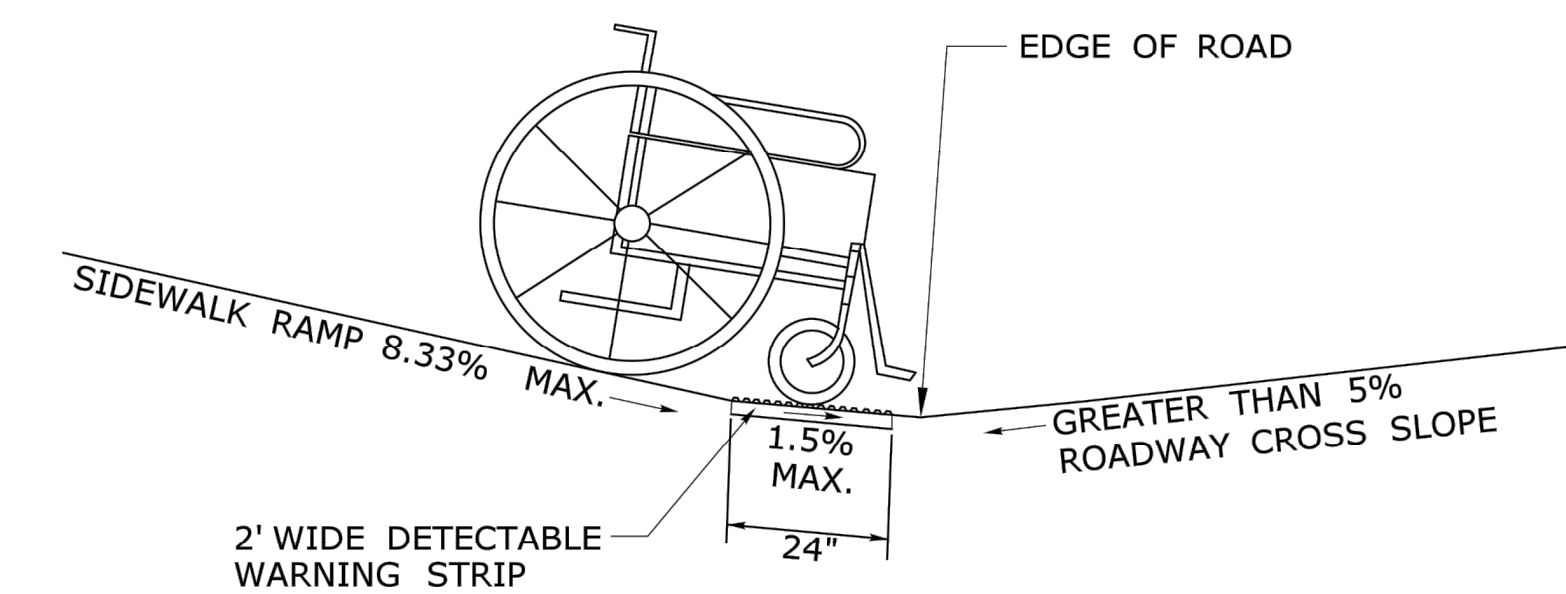
**SECTION AA**

**GENERAL NOTES:**

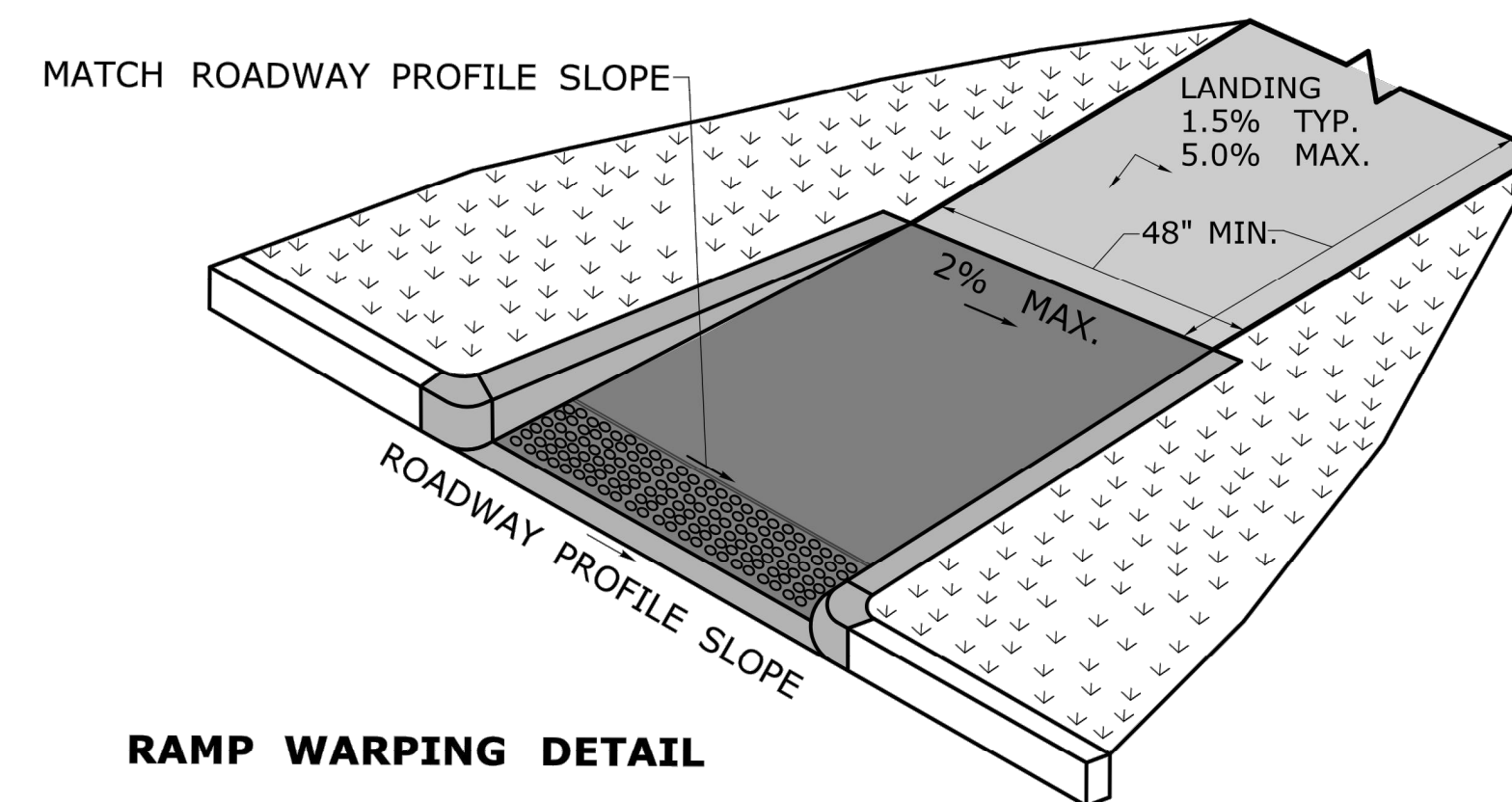
1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.



**SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF 5% OR LESS**



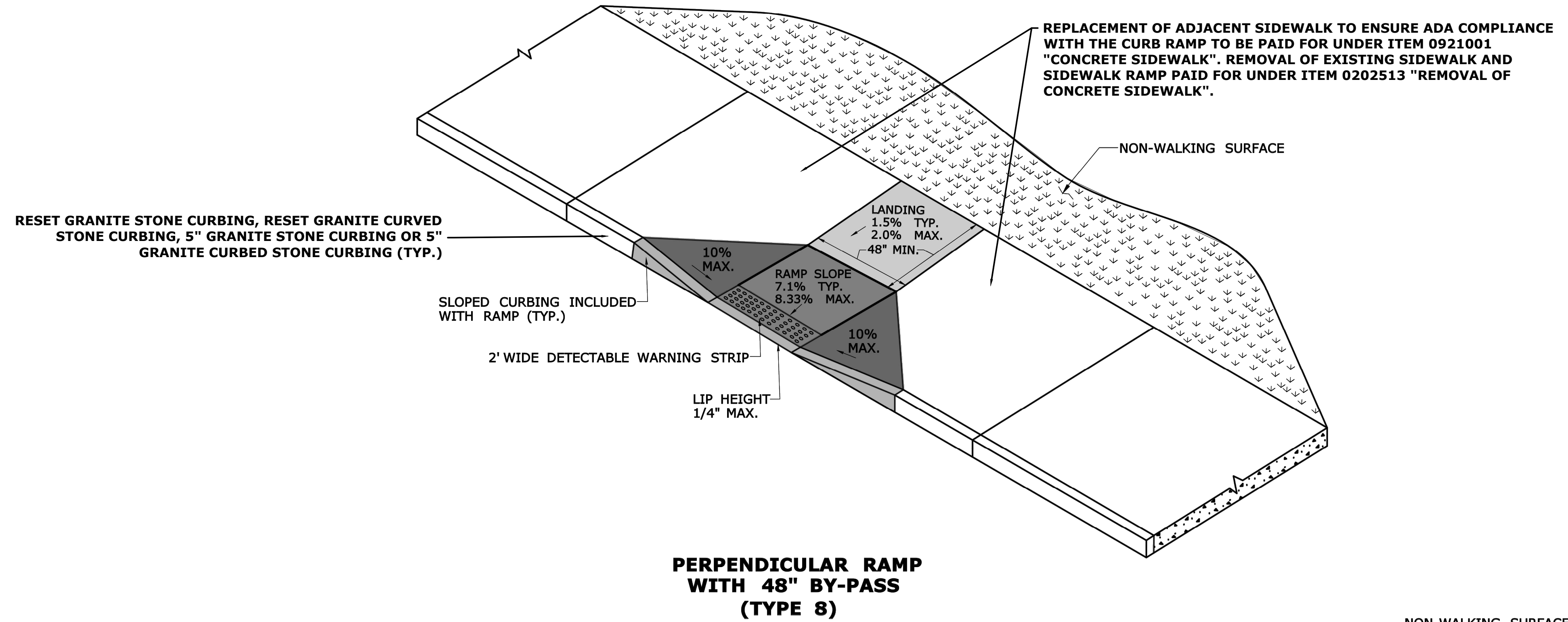
**SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF GREATER THAN 5%**



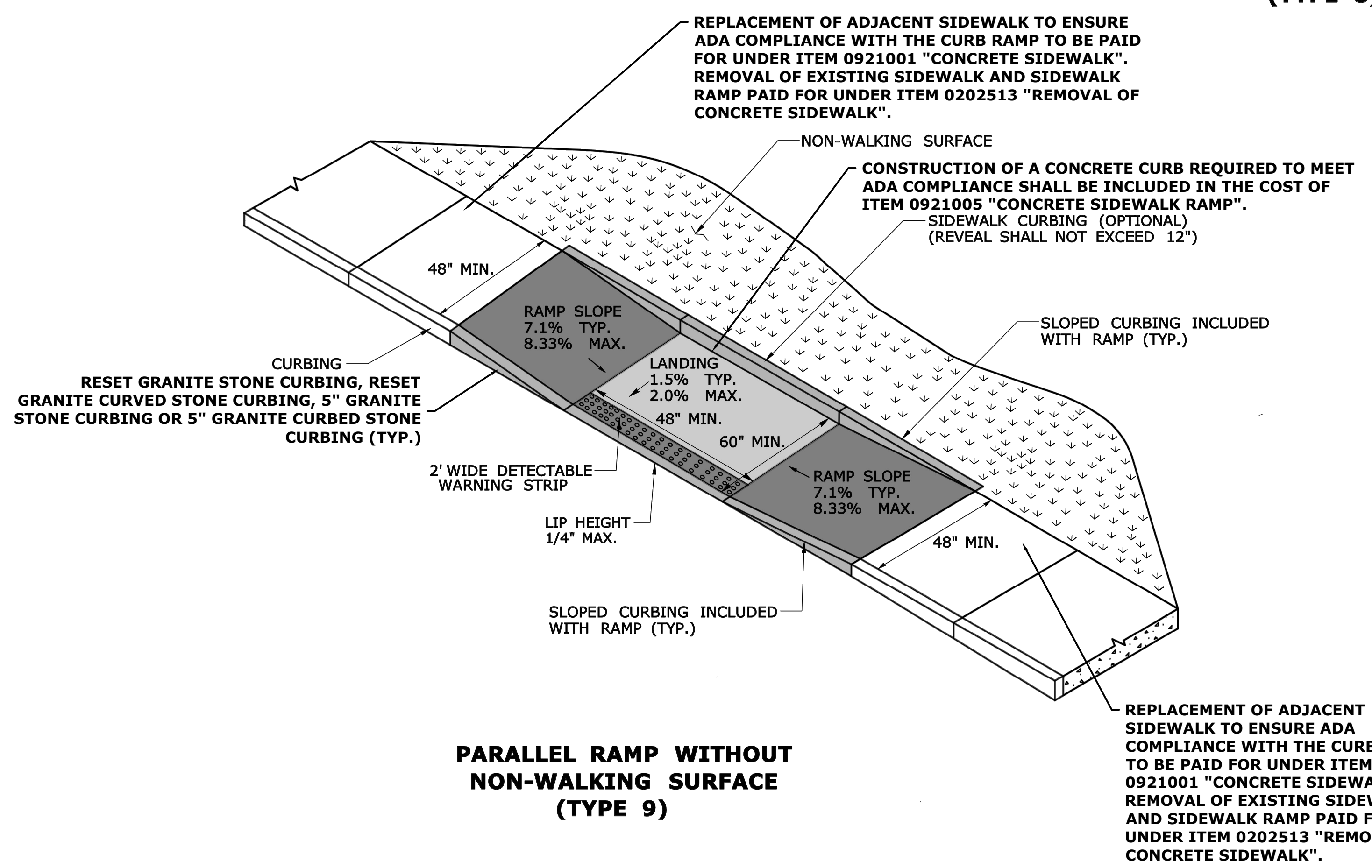
**RAMP WARPING DETAIL**

1. TRANSITION SIDEWALK RAMP TO MATCH ROADWAY PROFILE AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3% PER FOOT CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
2. COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE.

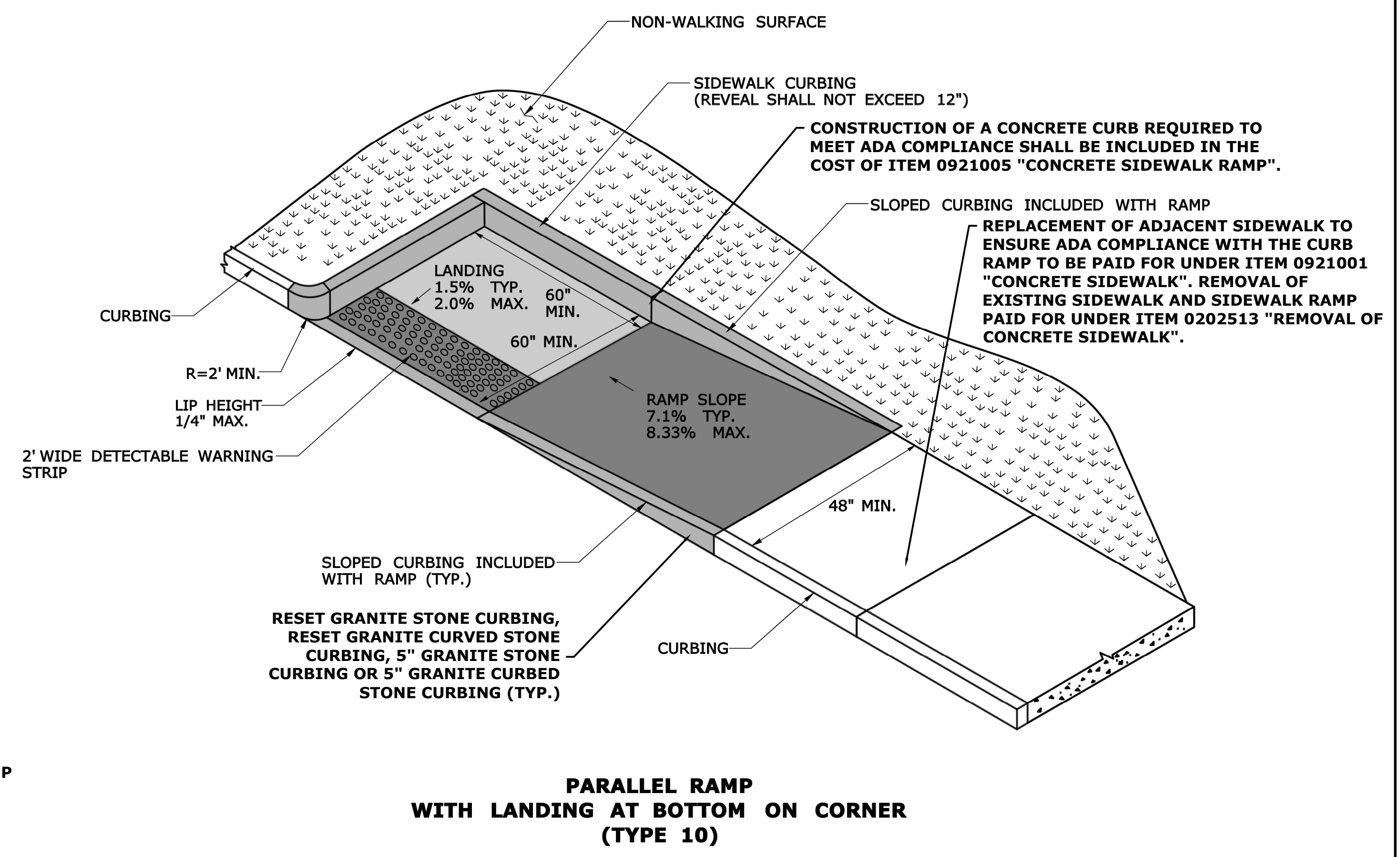
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/25/20	DESIGNER/DRAFTER: CJS	<p>77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM</p>	SIGNATURE/ BLOCK:		PROJECT TITLE:	TOWN:	PROJECT NO.
				CHECKED BY: SAH	<b>CITY OF MERIDEN INTERSECTION IMPROVEMENTS</b>		<b>MERIDEN</b>		<b>0079-0241</b>		
				<b>NOT TO SCALE</b>					<b>CONCRETE SIDEWALK RAMPS SHEET 1</b>	<b>CSR-01</b>	
					File name: HW_MSH_RAMP_GUIDE.DWG						<b>61</b>



**PERPENDICULAR RAMP WITH 48" BY-PASS (TYPE 8)**

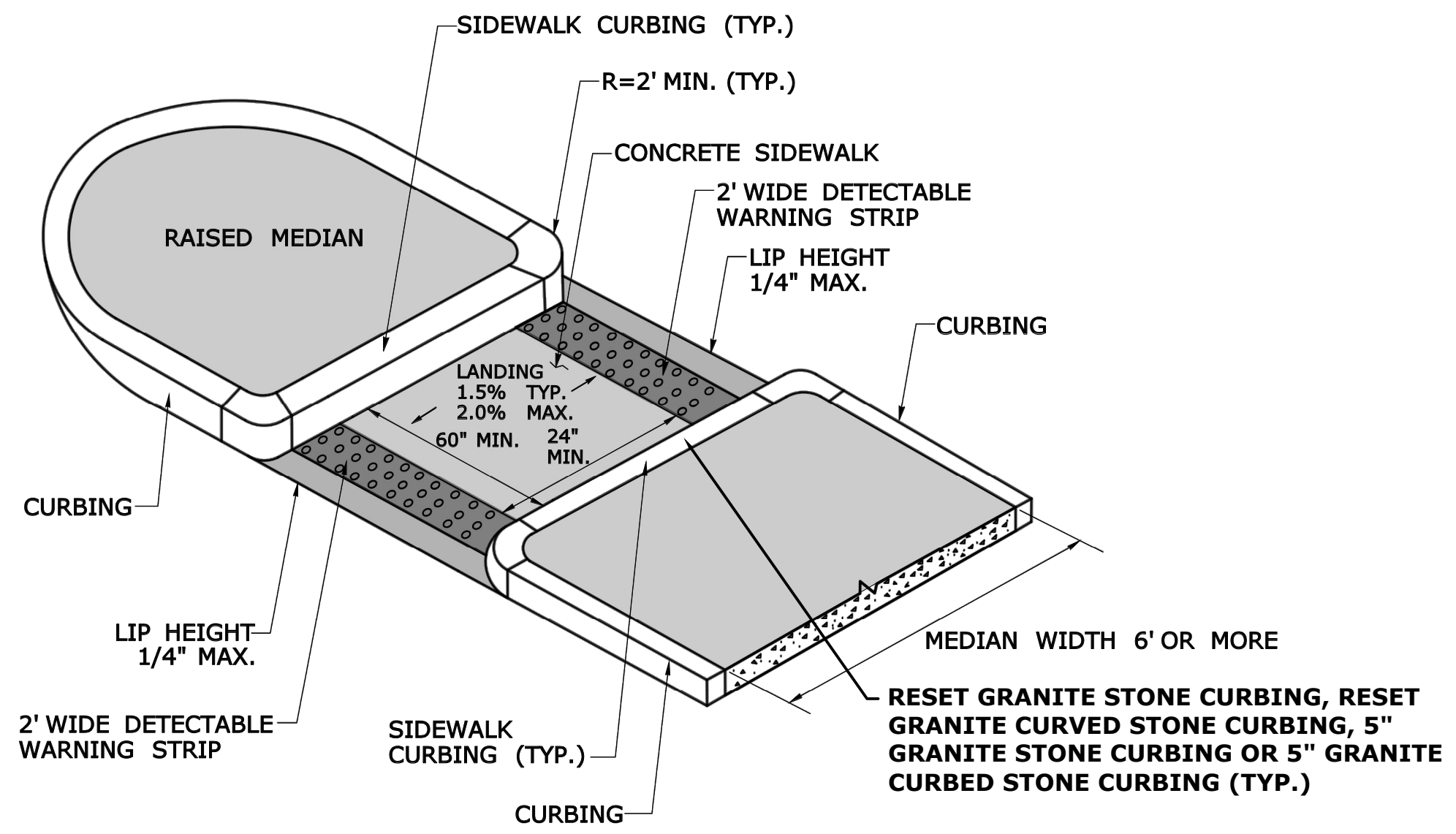


**PARALLEL RAMP WITHOUT NON-WALKING SURFACE (TYPE 9)**

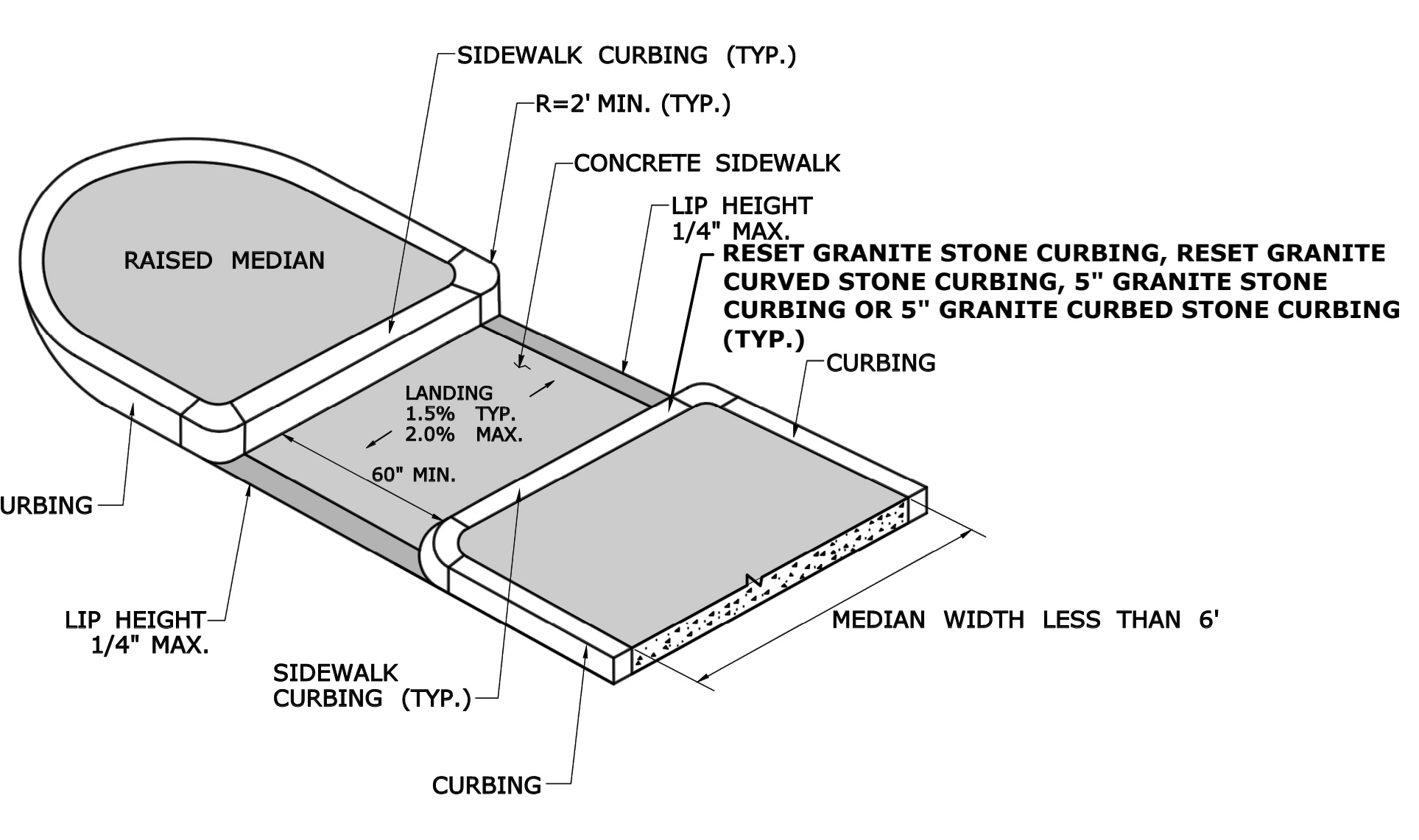


**PARALLEL RAMP WITH LANDING AT BOTTOM ON CORNER (TYPE 10)**

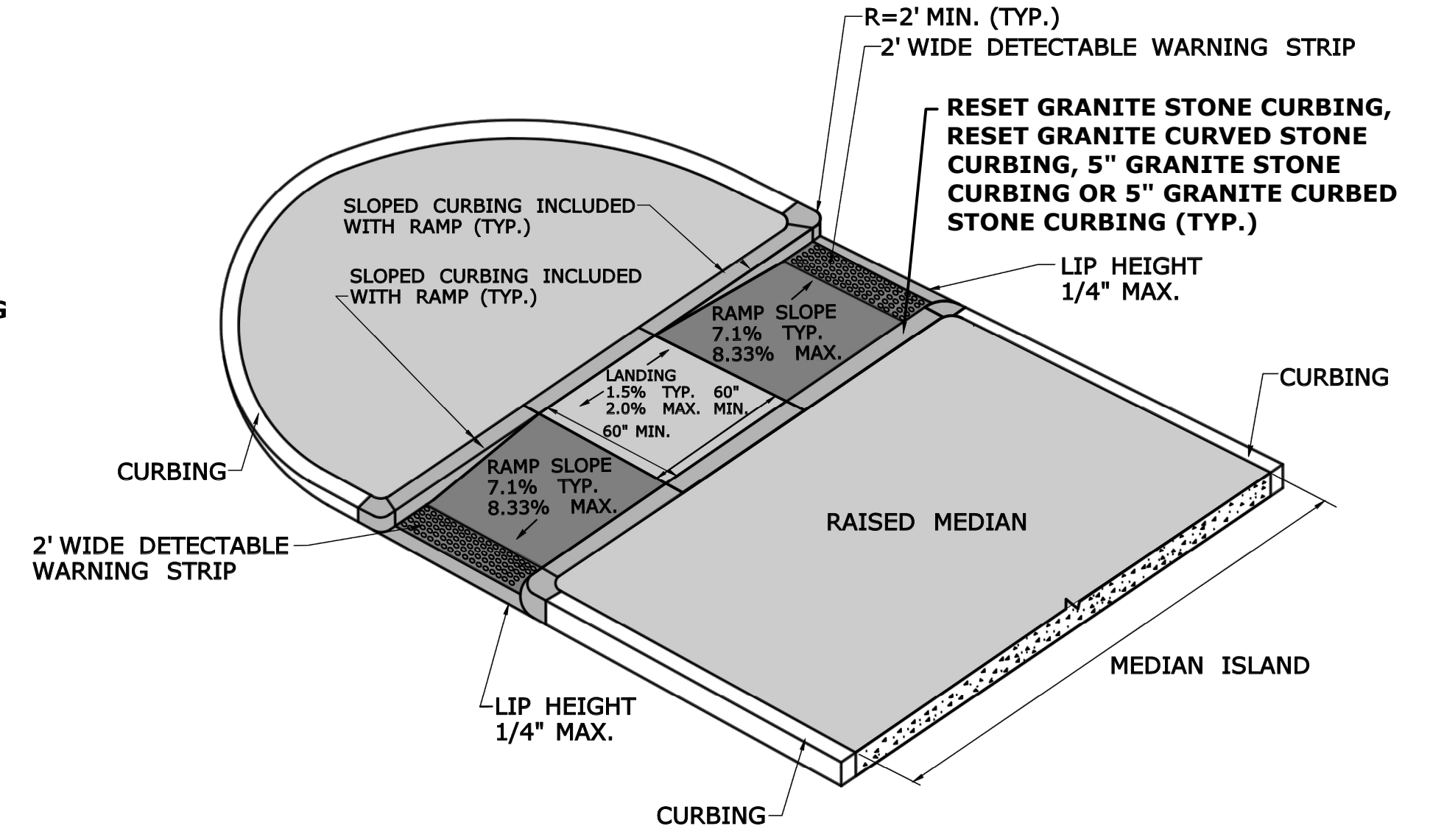
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/25/20	DESIGNER/DRAFTER: CJS		77 HARTLAND STREET, SUITE 201 EAST HARTFORD, CT 06108 PHONE: 860-529-7615 FAX: 860-290-7845 WWW.CDMSMITH.COM		PROJECT TITLE:	TOWN:	PROJECT NO.
					NOT TO SCALE				<b>CITY OF MERIDEN INTERSECTION IMPROVEMENTS</b>	<b>MERIDEN</b>	<b>0079-0241</b>
									<b>CONCRETE SIDEWALK RAMPS SHEET 2</b>	<b>CSR-02</b>	<b>62</b>



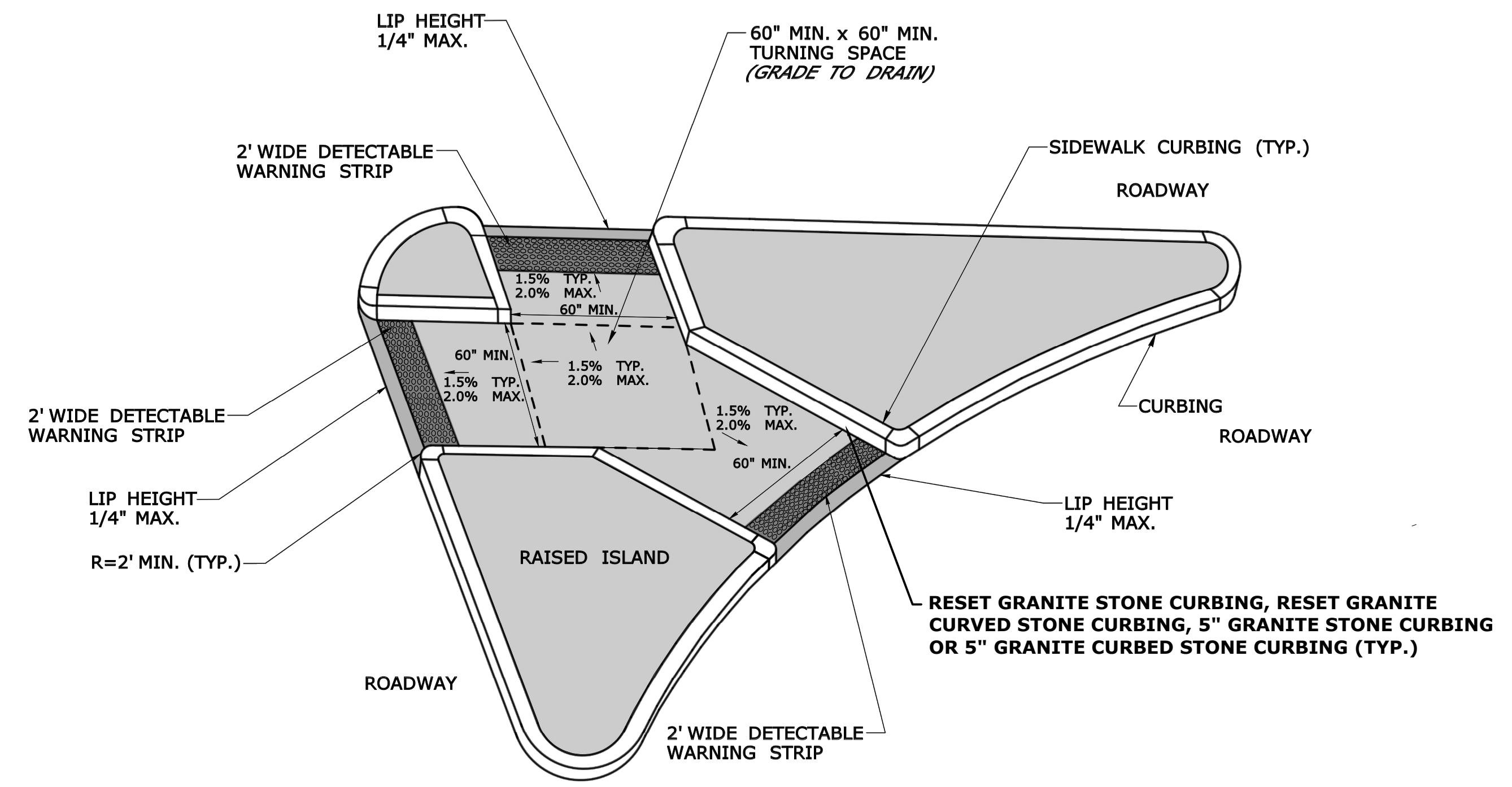
**CUT-THROUGH PEDESTRIAN REFUGE ISLAND  
MEDIAN WIDTH 6' OR MORE  
(TYPE 22)**



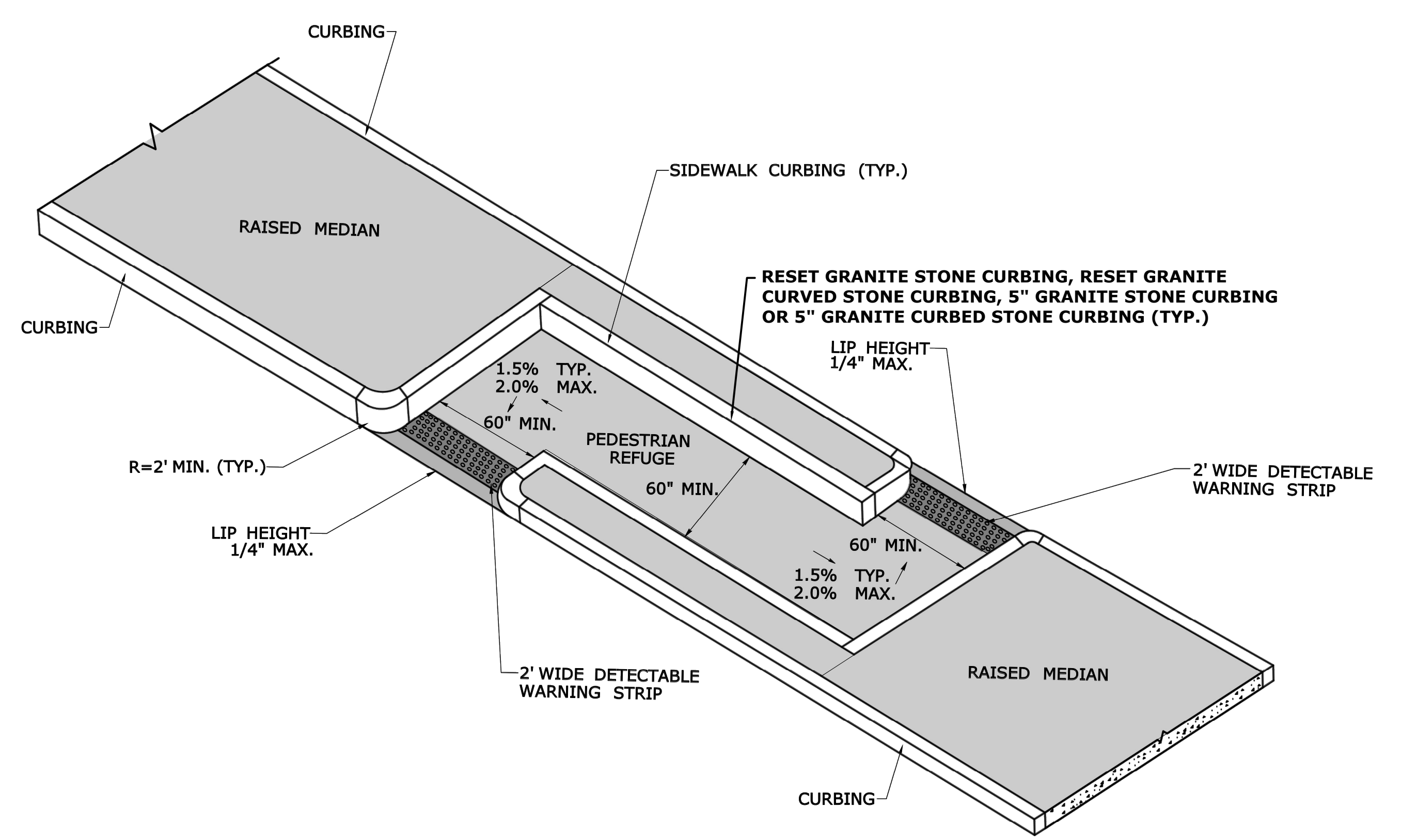
**CUT-THROUGH PEDESTRIAN REFUGE ISLAND  
MEDIAN WIDTH LESS THAN 6'  
(TYPE 23)**



**PEDESTRIAN REFUGE ISLAND WITH LANDING AND RAMPS  
(TYPE 24)**



**CUT-THROUGH PEDESTRIAN REFUGE ISLAND  
(TYPE 25)**



**CUT-THROUGH PEDESTRIAN REFUGE ISLAND  
OFFSET CONFIGURATION  
(TYPE 26)**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER:  
CJS  
CHECKED BY:  
SAH  
NOT TO SCALE

**CDM Smith**  
77 HARTLAND STREET, SUITE 201  
EAST HARTFORD, CT 06108  
PHONE: 860-529-7615  
FAX: 860-290-7845  
WWW.CDMSMITH.COM

SIGNATURE/  
BLOCK:


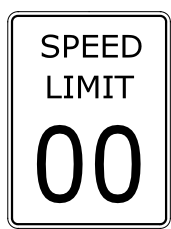

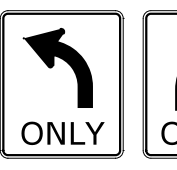
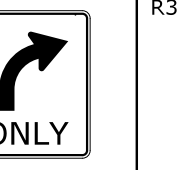

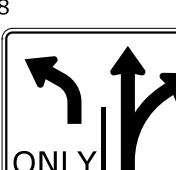
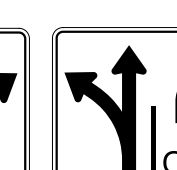



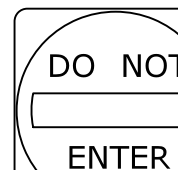
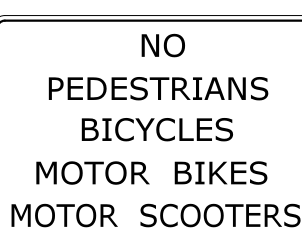
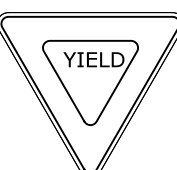
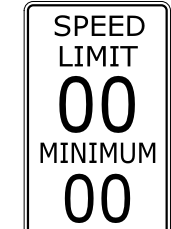

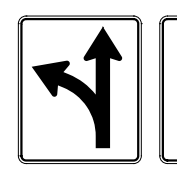
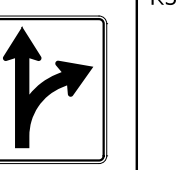
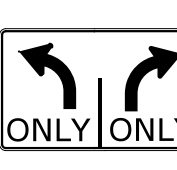
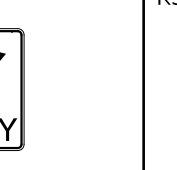
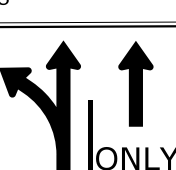
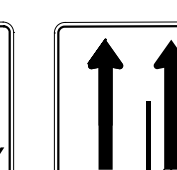
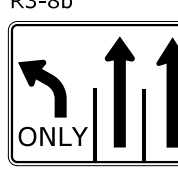
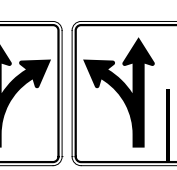

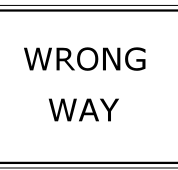







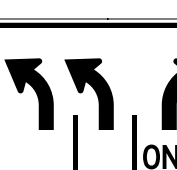



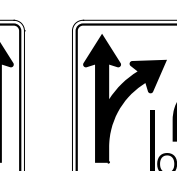
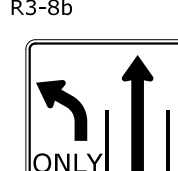

PROJECT TITLE:  
**CITY OF MERIDEN  
INTERSECTION IMPROVEMENTS**







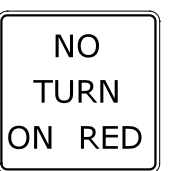



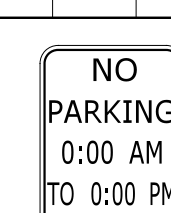

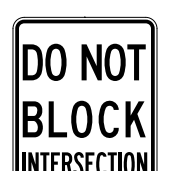
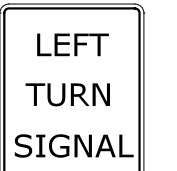
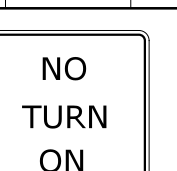
TOWN:  
**MERIDEN**  
DRAWING TITLE:  
**CONCRETE SIDEWALK  
RAMPS SHEET 3**

PROJECT NO.  
**0079-0241**  
DRAWING NO.  
**CSR-03**  
SHEET NO.  
**63**





R1 - SERIES	R2 - SERIES	R3 - SERIES	R4 - SERIES	R5 - SERIES																																																																																																																																																	
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7.50	30X36	31-0830	1	.080																																																																																																																																																																																									
12.00	36X48	31-0819	2	.100																																																																																																																																																																																									
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1.00	4X48	31-5003	1	.080																																																																																																																																																																																									
2.00	4X72	31-5004	1	.080																																																																																																																																																																																									

- NOTES:
1. THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R- SERIES SIGNS EXCEPT WHEN SUFFIXED WITH THE LETTER "Z".
  2. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERRECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
  3. POSTS - SEE STANDARD SHEET TR-1208-02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
  4. POSTS SHALL BE 4 LBS./FT.
  5. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
  6. FOR OVERHEAD MOUNTED SIGNS, SEE STANDARD SHEET TR-1114-01 - "BONDING AND UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAIL."

COLORS:  
 BACKGROUND - WHITE - EXCEPT AS NOTED.  
 LEGEND - BLACK - EXCEPT AS NOTED.  
 ALL SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.



<p>DESIGNER/DRAFTER:  <b>A. MERMELSTEIN</b>      CHECKED BY:  <b>B. SCHILLING</b></p> <p>NOT TO SCALE</p>	<p>STATE OF CONNECTICUT      DEPARTMENT OF TRANSPORTATION</p> <p>Filename: ...LCTDOT_TRAFFIC_GS.dgn</p>	<p>SIGNATURE/      BLOCK:  <b>OFFICE OF ENGINEERING</b></p> <p>APPROVED BY: _____ DATE: _____</p>	<p>PROJECT TITLE:  <b>TRAFFIC SIGNAL &amp; INTERSECTION IMPROVEMENTS</b></p>	<p>TOWN:  <b>MERIDEN</b></p>	<p>PROJECT NO.  <b>0079-0241</b></p> <p>DRAWING NO.  <b>TR-GS_01</b></p> <p>SHEET NO.  <b>65</b></p>
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.
3	12-2018	REVISED RETROREFLECTIVE STRIPS	TR-GS_01
2	10-2018	REVISED R5-11 SIGNS PER MUTCD	TR-GS_01
1	6-2018	NEW SHEET ISSUED	TR-GS_01

Plotted Date: 1/16/2019



D1 - SERIES	D3 - SERIES	D4 - SERIES	D5 - SERIES	D7 - SERIES	D9 - SERIES	D10 - SERIES	RECREATIONAL RS- SERIES	E5 - SERIES	I - SERIES	INCIDENT MANAGEMENT																																																																																																																																																																																																																																																																																																																																																																												
<p>D1-1</p> <p>51-5202 Variable →</p> <p>D1-2</p> <p>51-5203 Variable →</p> <p>VARIABLE LEGEND &amp; ARROW DIRECTION</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>5.00</td> <td>60X12</td> <td>51-5202</td> <td>2</td> <td>.100</td> </tr> <tr> <td>10.00</td> <td>60X24</td> <td>51-5203</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	5.00	60X12	51-5202	2	.100	10.00	60X24	51-5203	2	.100	<p>D3-1</p> <p>Variable Road Name</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. 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THK.	38.50	84X66	51-2099	3	.125	<p>D5-2b</p> <p>LEGEND - WHITE BACKGROUND - BLUE</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>42.25</td> <td>78X78</td> <td>51-6901</td> <td>2</td> <td>.125</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	42.25	78X78	51-6901	2	.125	<p>D-7</p> <p>51-6802 Variable →</p> <p>51-6803 Variable →</p> <p>VARIABLE ARROW DIRECTION</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>4.17</td> <td>60X12</td> <td>51-6802</td> <td>2</td> <td>.100</td> </tr> <tr> <td>8.33</td> <td>60X24</td> <td>51-6803</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	4.17	60X12	51-6802	2	.100	8.33	60X24	51-6803	2	.100	<p>D9-2</p> <p>** FOR ARROW SUBPLATES USE M5 &amp; M6 SERIES</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>4.00</td> <td>24X24</td> <td>51-6788</td> <td>1</td> <td>.080</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	4.00	24X24	51-6788	1	.080	<p>D10-4</p> <p>CARDINAL DIRECTION, SHIELD AND NUMERALS ARE VARIABLE</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>6.75</td> <td>18X54</td> <td>51-5307</td> <td>1</td> <td>.080</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.75	18X54	51-5307	1	.080	<p>RS-054</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. 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THK.	1.50	18X12	51-2009	1	.080	3.00	12X36	51-5103	1	.080	4.50	36X18	51-2007	2	.080	12.00	48X36	51-2051	2	.100	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	3.00	12X36	51-5103	1	.080	4.00	12X48	51-5104	1	.080	5.00	12X60	51-5105	1	.080	<p>RS-117</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>4.00</td> <td>24X24</td> <td>51-7872</td> <td>1</td> <td>.080</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	4.00	24X24	51-7872	1	.080	<p>E5-1a</p> <p>51-6124</p> <p>51-6125</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>32.50</td> <td>78X60</td> <td></td> <td>2</td> <td>.125</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. 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THK.	3.00	18X24	51-5943	1	.080	<p>51-6705 DIESEL →</p> <p>51-6706 FOOD →</p> <p>51-6708 GAS →</p> <p>51-6709 LODGING →</p> <p>VARIABLE ARROW DIRECTION</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>2.25</td> <td>36X9</td> <td></td> <td>2</td> <td>.080</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	2.25	36X9		2	.080	<p>51-5405 STATE POLICE →</p> <p>51-6714 CAMPING →</p> <p>51-6960 INFO →</p> <p>VARIABLE ARROW DIRECTION</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>2.25</td> <td>36X9</td> <td></td> <td>2</td> <td>.080</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	2.25	36X9		2	.080	<p>51-2705</p> <p>51-2706 L or R</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>45.00</td> <td>108X60</td> <td></td> <td>2</td> <td>.125</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	45.00	108X60		2	.125	<p>51-6126</p> <p>51-6127</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>2.19</td> <td>21X15</td> <td>51-2705</td> <td></td> <td>.080</td> </tr> <tr> <td>2.19</td> <td>21X15</td> <td>51-2706</td> <td></td> <td>.080</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	2.19	21X15	51-2705		.080	2.19	21X15	51-2706		.080	<p>I-7</p> <p>51-6504 Variable</p> <p>51-6505 Variable</p> <p>TO BE SUBMOUNTED W/ 51-5943</p> <p>LEGEND - WHITE BACKGROUND - BLUE</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>0.75</td> <td>18X6</td> <td>51-6504</td> <td></td> <td>.080</td> </tr> <tr> <td>1.50</td> <td>18X12</td> <td>51-6505</td> <td></td> <td>.080</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	0.75	18X6	51-6504		.080	1.50	18X12	51-6505		.080	<p>E5-1a</p> <p>51-6128</p> <p>51-6129</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>57.50</td> <td>138X60</td> <td></td> <td>2</td> <td>.125</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	57.50	138X60		2	.125	<p>PARKING AREA PATROLLED</p> <p>LEGEND - BLACK BACKGROUND - WHITE</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>7.50</td> <td>36X30</td> <td>51-5937</td> <td>2</td> <td>.080</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	7.50	36X30	51-5937	2	.080
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.																																																																																																																																																																																																																																																																																																																																																																																		
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10.00	60X24	51-5203	2	.100																																																																																																																																																																																																																																																																																																																																																																																		
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6.00	48X18	51-2004	2	.100																																																																																																																																																																																																																																																																																																																																																																																		
7.50	60X18	51-2001	2	.100																																																																																																																																																																																																																																																																																																																																																																																		
9.00	72X18	51-2002	2	.125																																																																																																																																																																																																																																																																																																																																																																																		
10.50	84X18	51-2003	2	.125																																																																																																																																																																																																																																																																																																																																																																																		
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5.00	24X30	51-6006	1	.080																																																																																																																																																																																																																																																																																																																																																																																		
7.50	30X36	51-6007	1	.080																																																																																																																																																																																																																																																																																																																																																																																		
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38.50	84X66	51-2082	3	.125																																																																																																																																																																																																																																																																																																																																																																																		
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5.00	24X30	51-6033	1	.080																																																																																																																																																																																																																																																																																																																																																																																		
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38.50	84X66	51-2095	3	.125																																																																																																																																																																																																																																																																																																																																																																																		
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5.00	24X30	51-6044	1	.080																																																																																																																																																																																																																																																																																																																																																																																		
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38.50	84X66	51-2099	3	.125																																																																																																																																																																																																																																																																																																																																																																																		
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42.25	78X78	51-6901	2	.125																																																																																																																																																																																																																																																																																																																																																																																		
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4.17	60X12	51-6802	2	.100																																																																																																																																																																																																																																																																																																																																																																																		
8.33	60X24	51-6803	2	.100																																																																																																																																																																																																																																																																																																																																																																																		
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4.00	24X24	51-6788	1	.080																																																																																																																																																																																																																																																																																																																																																																																		
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6.75	18X54	51-5307	1	.080																																																																																																																																																																																																																																																																																																																																																																																		
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4.00	24X24	51-6873	1	.080																																																																																																																																																																																																																																																																																																																																																																																		
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30.00	72X60	51-6150	2	.125																																																																																																																																																																																																																																																																																																																																																																																		
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1.50	18X12	51-2009	1	.080																																																																																																																																																																																																																																																																																																																																																																																		
3.00	12X36	51-5103	1	.080																																																																																																																																																																																																																																																																																																																																																																																		
4.50	36X18	51-2007	2	.080																																																																																																																																																																																																																																																																																																																																																																																		
12.00	48X36	51-2051	2	.100																																																																																																																																																																																																																																																																																																																																																																																		
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4.00	12X48	51-5104	1	.080																																																																																																																																																																																																																																																																																																																																																																																		
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7.50	40X27	51-2020	2	.080																																																																																																																																																																																																																																																																																																																																																																																		
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<p>M1-5</p> <p>51-6616</p> <p>51-6636</p> <p>VARIABLE: 1 or 2 DIGITS</p> <p>LEGEND - BLACK BACKGROUND - WHITE</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>4.00</td> <td>24X24</td> <td>51-6616</td> <td>1</td> <td>.080</td> </tr> <tr> <td>5.00</td> <td>30X24</td> <td>51-6647</td> <td>1</td> <td>.080</td> </tr> <tr> <td>9.00</td> <td>36X36</td> <td>51-6636</td> <td>2</td> <td>.080</td> </tr> <tr> <td>11.25</td> <td>45X36</td> <td>51-6646</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	4.00	24X24	51-6616	1	.080	5.00	30X24	51-6647	1	.080	9.00	36X36	51-6636	2	.080	11.25	45X36	51-6646	2	.100		<p>M3-3</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>COLOR</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>2.00</td> <td>24X12</td> <td>51-6653</td> <td>(1)</td> <td>.080</td> </tr> <tr> <td>2.00</td> <td>24X12</td> <td>51-6613</td> <td>(2)</td> <td>.080</td> </tr> <tr> <td>4.50</td> <td>36X18</td> <td>51-6657</td> <td>(1)</td> <td>.080</td> </tr> <tr> <td>4.50</td> <td>36X18</td> <td>51-6627</td> <td>(2)</td> <td>.080</td> </tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.	2.00	24X12	51-6653	(1)	.080	2.00	24X12	51-6613	(2)	.080	4.50	36X18	51-6657	(1)	.080	4.50	36X18	51-6627	(2)	.080																																																																																																																			
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NOTES:

- FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERRECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
- POSTS - SEE STANDARD SHEET TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
- POSTS SHALL BE 4 LBS./FT.
- SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

COLORS:

D - SERIES  
D1, 2, 3, 4, 10 BACKGROUND-GREEN, LEGEND-WHITE  
D7, RS BACKGROUND-BROWN, LEGEND-WHITE  
D9 BACKGROUND-BLUE, LEGEND-WHITE  
ALL OTHER D-SERIES AS NOTED



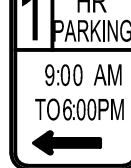
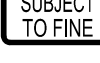




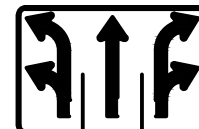

E - SERIES  
BACKGROUND-GREEN, LEGEND-WHITE

I - SERIES  
BACKGROUND-GREEN, LEGEND-WHITE (EXCEPT AS NOTED)  
M2 - M6 SERIES  
(1) BACKGROUND-BLUE, LEGEND-WHITE  
(2) BACKGROUND-WHITE, LEGEND-BLACK

ALL COLORS SHALL BE TYPE IX RETROREFLECTIVE WITH THE EXCEPTION OF BROWN WHICH SHALL BE TYPE IV RETROREFLECTIVE AND BLACK WHICH SHALL BE OPAQUE.



<p>DESIGNER/DRAFTER: <b>A. MERMELSTEIN</b></p> <p>CHECKED BY: <b>B. SCHILLING</b></p> <p>NOT TO SCALE</p>	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p> <p>Filename: ...LCTDOT_TRAFFIC_GS.dgn</p>	<p>SIGNATURE/ BLOCK: <b>OFFICE OF ENGINEERING</b></p> <p>APPROVED BY: _____ DATE: _____</p>	<p>PROJECT TITLE: <b>TRAFFIC SIGNAL &amp; INTERSECTION IMPROVEMENTS</b></p>	<p>TOWN: <b>MERIDEN</b></p>	<p>PROJECT NO. 0079-0241</p> <p>DRAWING NO. <b>TR-GS_03</b></p> <p>SHEET NO. <b>67</b></p>
<p>3 12-2018 REVISED D2, D3, D9, AND I SIGN SERIES. TR-GS_03</p> <p>2 7-2018 REVISED BROWN COLOR TO TYPE IV. TR-GS_03</p> <p>1 6-2018 NEW SHEET ISSUED. TR-GS_03</p> <p>REV. DATE REVISION DESCRIPTION SHEET NO.</p>	<p>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</p> <p>Plotted Date: 1/16/2019</p>	<p>DRAWING TITLE: <b>SIGN FACE SHEET ALUMINUM (Z) D,RS,E,I,&amp;M SERIES TYPICAL SIGN DETAILS</b></p>			


R3 - SERIES					R7 - SERIES					R10 - SERIES					R12 - SERIES									
R3-2 (CT)  CIRCLE & DIAGONAL - RED LEGEND - BLACK BACKGROUND - WHITE					R3-8b  LEGEND - BLACK BACKGROUND - WHITE					R7-108  (R) → (D) ← (L) ← LEGEND - GREEN BACKGROUND - WHITE					R10-7 (CT)  LEGEND - BLACK BACKGROUND - WHITE					****  LEGEND - BLACK BACKGROUND - WHITE				
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.					
6.00	24X36	31-1613	1	.080	12.50	60X30	31-0445	2	.100	1.50	12X18	31-0643	1	.080	3.00	24X18	31-5517	1	.080	4.00	24X24	****	1	.080
R3-8a  LEGEND - BLACK BACKGROUND - WHITE					R3-8b  LEGEND - BLACK BACKGROUND - WHITE					R7-1  (R) → (D) ← (L) ← LEGEND - RED BACKGROUND - WHITE														
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.										
10.00	48X30	31-0345	2	.100	7.50	36X30	31-0246	1	.080	1.50	12X18	31-0613	1	.080										
R3-8b  LEGEND - BLACK BACKGROUND - WHITE					R3-8b  LEGEND - BLACK BACKGROUND - WHITE																			
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.															
10.00	48X30	****	2	.100	8.75	42X30	31-0269	2	.080															

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/7/21
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DESIGNER/DRAFTER:  
CJS  
CHECKED BY:  
SAH  
**NOT TO SCALE**

**CDM Smith**  
77 HARTLAND STREET, SUITE 201  
EAST HARTFORD, CT 06108  
PHONE: 860-529-7615  
FAX: 860-290-7845  
WWW.CDMSMITH.COM

SIGNATURE/  
BLOCK:



PROJECT TITLE:  
**CITY OF MERIDEN  
INTERSECTION IMPROVEMENTS**

TOWN:  
**MERIDEN**  
DRAWING TITLE:  
**SIGN FACE SHEET ALUMINUM  
R-SERIES TYPICAL SIGN DETAILS**

PROJECT NO.  
**0079-0241**  
DRAWING NO.  
**TR-GS\_04**  
SHEET NO.  
**68**

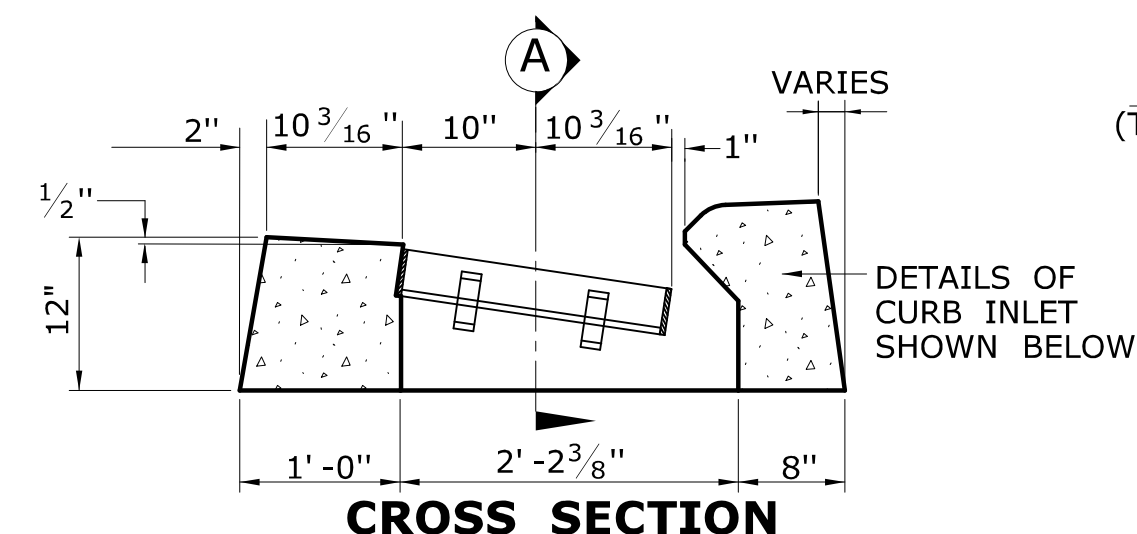
\*ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT # 79-241

\*\*REVISED OR ADDED

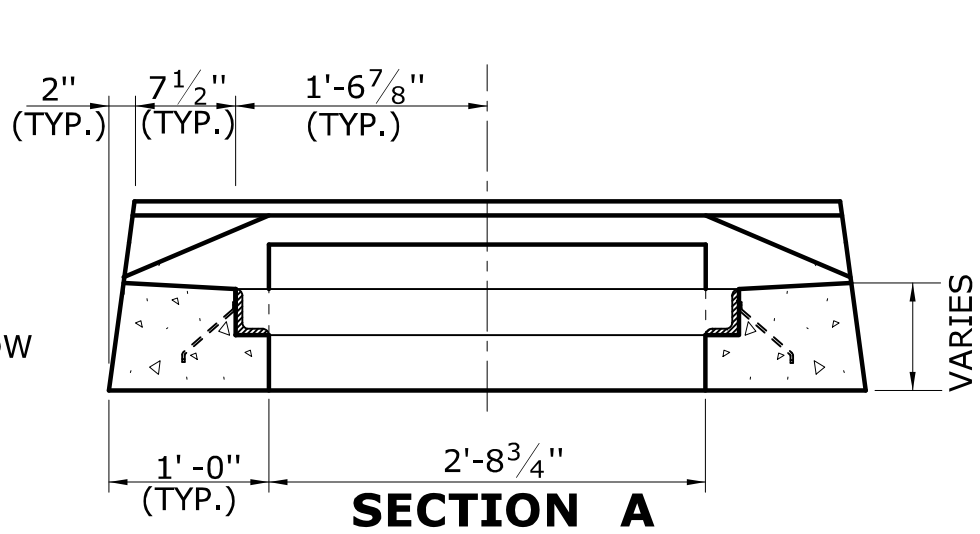
✓*	SHEET NO.	TITLE	APPROVAL DATE**
<input type="checkbox"/>	HW-286_01	DRAINAGE TRENCH EXCAVATION	7-15-20
<input type="checkbox"/>	HW-506_01	ENDWALLS, SLOPE PAVED INLETS AND OUTLETS	1-26-12
<input type="checkbox"/>	HW-506_02	TYPE "D-G" & "L" ENDWALLS	7-13-12
<input type="checkbox"/>	HW-506_03	ENDWALLS FOR PIPE - ARCH	9-18-09
<input type="checkbox"/>	HW-586_01	CATCH BASIN AND DROP INLET TYPES "C" AND "C-L"	7-15-20
<input type="checkbox"/>	HW-586_02	CATCH BASIN TOPS ( TYPES "C" AND "C-L" ) FOR DOUBLE GRATE TYPE I	7-15-20
<input type="checkbox"/>	HW-586_03	CATCH BASIN TOPS ( TYPES "C" AND "C-L" ) FOR DOUBLE GRATE TYPE II	7-15-20
<input type="checkbox"/>	HW-586_04	PRECAST CATCH BASIN AND ROUND STRUCTURE	7-15-20
<input type="checkbox"/>	HW-586_05	PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE I	7-15-20
<input type="checkbox"/>	HW-586_06	PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE II	7-15-20
<input checked="" type="checkbox"/>	HW-586_07	CATCH BASIN TOPS TYPE "C" AND "C-L"	7-15-20
<input checked="" type="checkbox"/>	HW-586_08	CATCH BASIN FRAMES AND GRATES	7-15-20
<input type="checkbox"/>	HW-586_09	CATCH BASIN LOCK DOWN TOPS	7-15-20
<input type="checkbox"/>	HW-586_10a	MANHOLE FRAME AND COVER	7-15-20
<input type="checkbox"/>	HW-586_10b	MANHOLE FRAME AND GRATE	7-15-20
<input type="checkbox"/>	HW-586_10c	REINFORCED PRECAST CONCRETE MANHOLE	7-15-20
<input type="checkbox"/>	HW-586_10d	MANHOLE NON-PRECAST CONCRETE UNIT	7-15-20
<input type="checkbox"/>	HW-686_01	C.C.M. PIPE INSTALLATION	7-15-20
<input type="checkbox"/>	HW-686_02	PIPE ENDS	7-15-20
<input type="checkbox"/>	HW-751_01	UNDERDRAINS AND UNDERDRAIN OUTLETS	7-12-12
<input type="checkbox"/>	HW-803_01a	PAVED APRONS	6-07-17
<input type="checkbox"/>	HW-803_01b	PAVED DITCHES AND PAVED CHANNELS	6-07-17
<input type="checkbox"/>	HW-811_01	CONCRETE CURBING	6-07-17
<input type="checkbox"/>	HW-813_01	GRANITE STONE TRANSITION CURBING	7-24-13
<input checked="" type="checkbox"/>	HW-813_02	STONE CURBING	6-07-17
<input type="checkbox"/>	HW-815_01	BITUMINOUS CONCRETE CURBING	6-07-17
<input type="checkbox"/>	HW-821_01a	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
<input type="checkbox"/>	HW-821_01b	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
<input type="checkbox"/>	HW-821_01c	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	1-26-12
<input type="checkbox"/>	HW-821_02a	45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1	1-27-20
<input type="checkbox"/>	HW-821_02b	45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2	1-27-20
<input type="checkbox"/>	HW-821_03a	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12

✓*	SHEET NO.	TITLE	APPROVAL DATE**
<input type="checkbox"/>	HW-821_03b	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
<input type="checkbox"/>	HW-821_03c	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	10-18-10
<input type="checkbox"/>	HW-821_03d	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	10-18-10
<input type="checkbox"/>	HW-821_03e	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) F-SHAPE	7-24-13
<input type="checkbox"/>	HW-821_04a	MERRITT PARKWAY NARROW MEDIAN BARRIER	6-09-11
<input type="checkbox"/>	HW-821_04b	MERRITT PARKWAY - 2' (610) WIDE MEDIAN BARRIER AND ROADSIDE BARRIER	7-24-13
<input type="checkbox"/>	HW-821_05a	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 1	1-26-12
<input type="checkbox"/>	HW-821_05b	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 2	1-26-12
<input type="checkbox"/>	HW-821_06	54" (1372) VERTICAL SHAPE BARRIER	2-06-12
<input type="checkbox"/>	HW-821_07	MISCELLANOUS DETAILS FOR BARRIER TRANSITIONS	7-12-12
<input type="checkbox"/>	HW-821_08a	F-SHAPE CONC. BARRIER CURB (21"x45") TRANSITION FOR THRIE-BEAM	1-09-20
<input type="checkbox"/>	HW-821_08b	F-SHAPE CONC. BARRIER CURB (21"x45") TRANSITION FOR THRIE-BEAM - REINF.	1-09-20
<input type="checkbox"/>	HW-821_09a	SINGLE SLOPE CONC. BARRIER CURB (20"x42") TRANS. FOR THRIE-BEAM	1-09-20
<input type="checkbox"/>	HW-821_09b	SINGLE SLOPE CONC. BARRIER CURB (20"x42") TRANS. FOR THRIE-BEAM - REINF.	1-09-20
<input type="checkbox"/>	HW-821_10a	VERTICAL FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM	1-09-20
<input type="checkbox"/>	HW-821_10b	VERTICAL FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM - REINF.	1-09-20
<input type="checkbox"/>	HW-821_11a	42" SINGLE SLOPE PRECAST CONCRETE BARRIER CURB -SHEET 1	1-27-20
<input type="checkbox"/>	HW-821_11b	42" SINGLE SLOPE PRECAST CONCRETE BARRIER CURB -SHEET 2	1-27-20
<input type="checkbox"/>	HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	7-24-13
<input type="checkbox"/>	HW-905_01	STONE WALL FENCE	1-25-19
<input type="checkbox"/>	HW-906_01	WIRE FENCE	1-25-19
<input type="checkbox"/>	HW-910_01	W-BEAM METAL BEAM RAIL HARDWARE	6-09-11
<input type="checkbox"/>	HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL	6-09-11
<input type="checkbox"/>	HW-910_03	METAL BEAM RAIL (TYPE MD-B 350) GUIDERAIL	6-09-11
<input type="checkbox"/>	HW-910_04	METAL BEAM RAIL (TYPE R-B 350) SYSTEMS 5, 5A, & 6	6-09-11
<input type="checkbox"/>	HW-910_05	METAL BEAM RAIL R-B 350 SPAN TYPE I, II, III SECTIONS	7-24-13
<input type="checkbox"/>	HW-910_06	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	6-09-11
<input type="checkbox"/>	HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	1-25-19
<input type="checkbox"/>	HW-910_08	R-B 350 BRIDGE ATTACHMENT TRAILING END	6-09-11
<input type="checkbox"/>	HW-910_09a	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 1	1-26-12
<input type="checkbox"/>	HW-910_09b	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 2	7-25-12
<input type="checkbox"/>	HW-910_10	METAL BEAM RAIL 8" (203) X 6" (152) BOX BEAM	7-24-13
<input type="checkbox"/>	HW-910_11	CURVED GUIDERAIL TREATMENT DETAIL	7-25-12

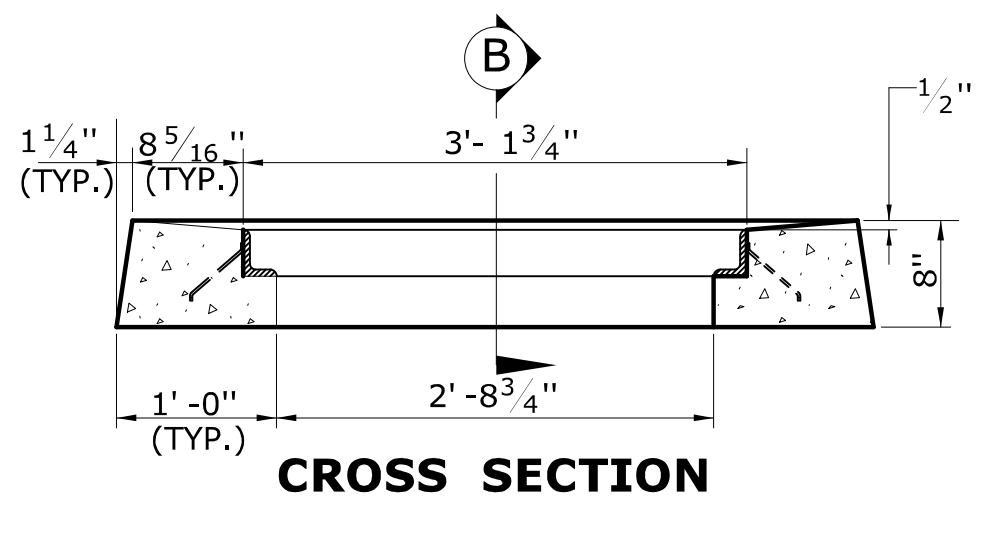




**CROSS SECTION  
TYPE "C" CATCH BASIN TOP**

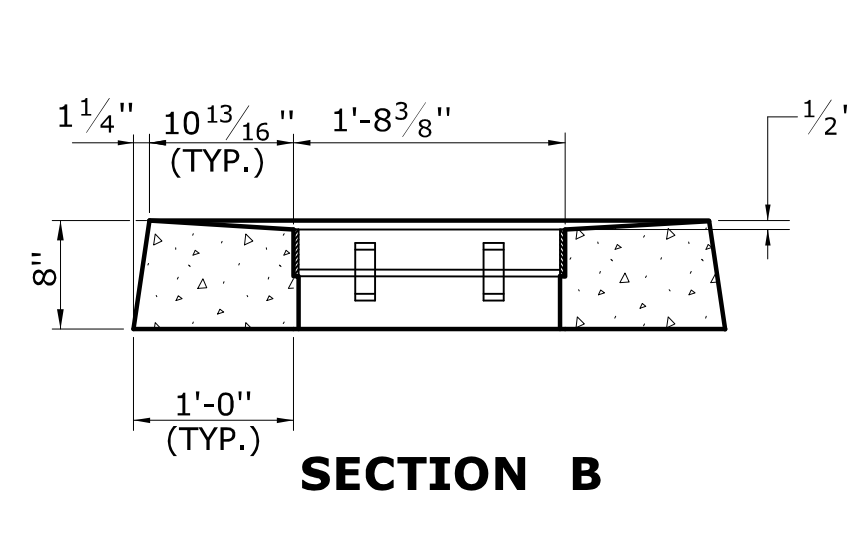


**SECTION A**



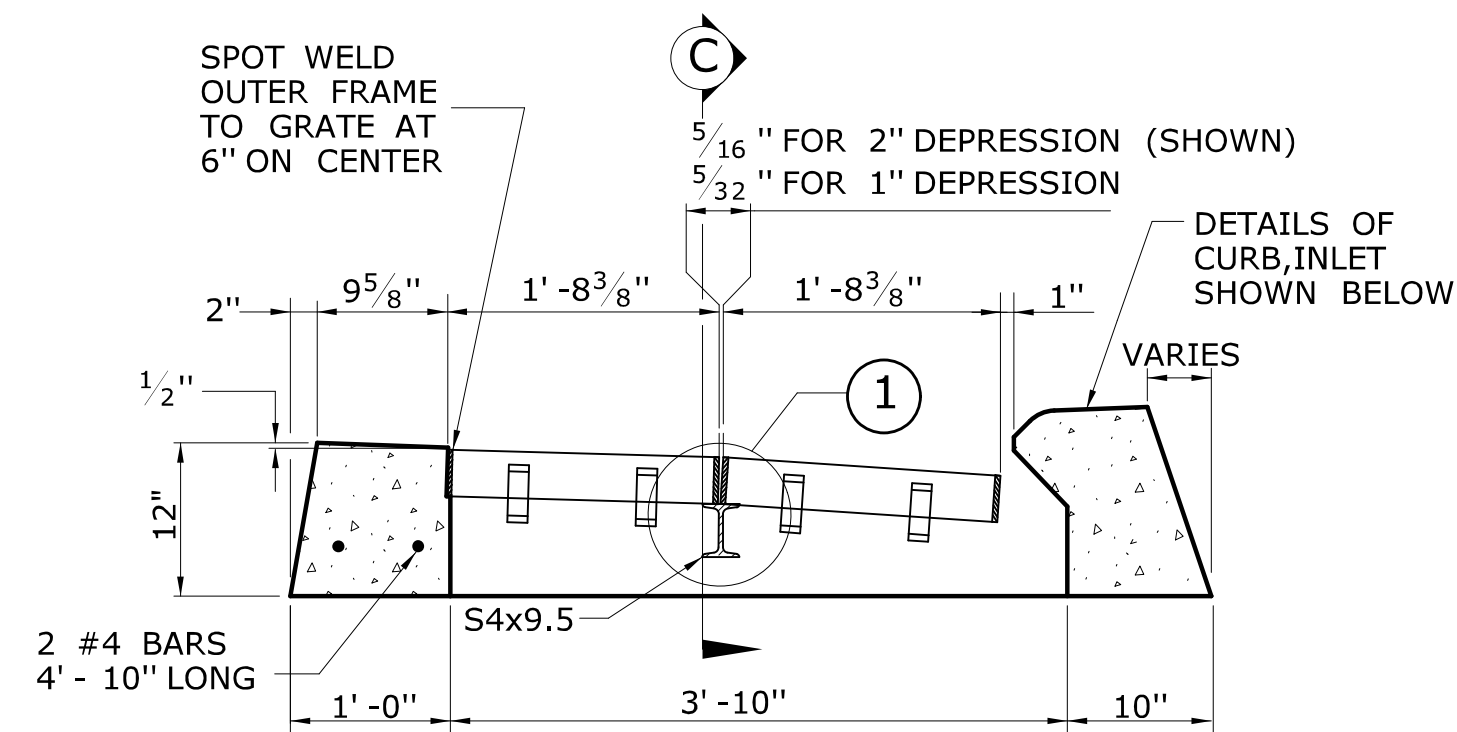
**CROSS SECTION**

**TYPE "C-L" CATCH BASIN TOP**

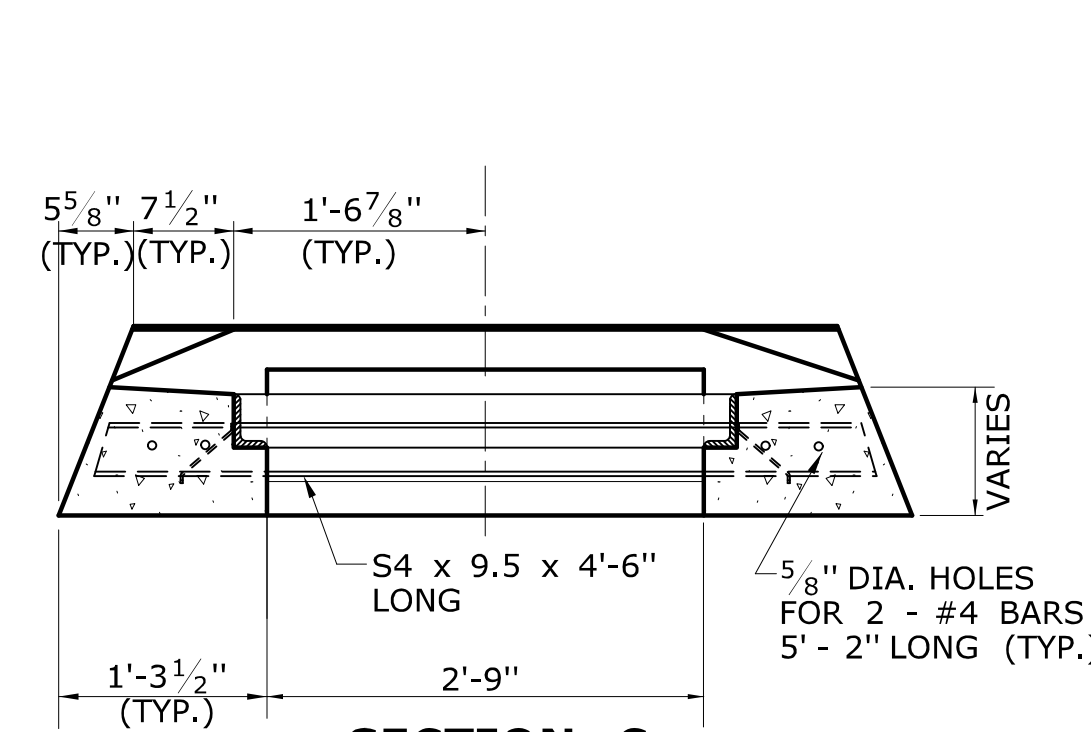


**SECTION B**

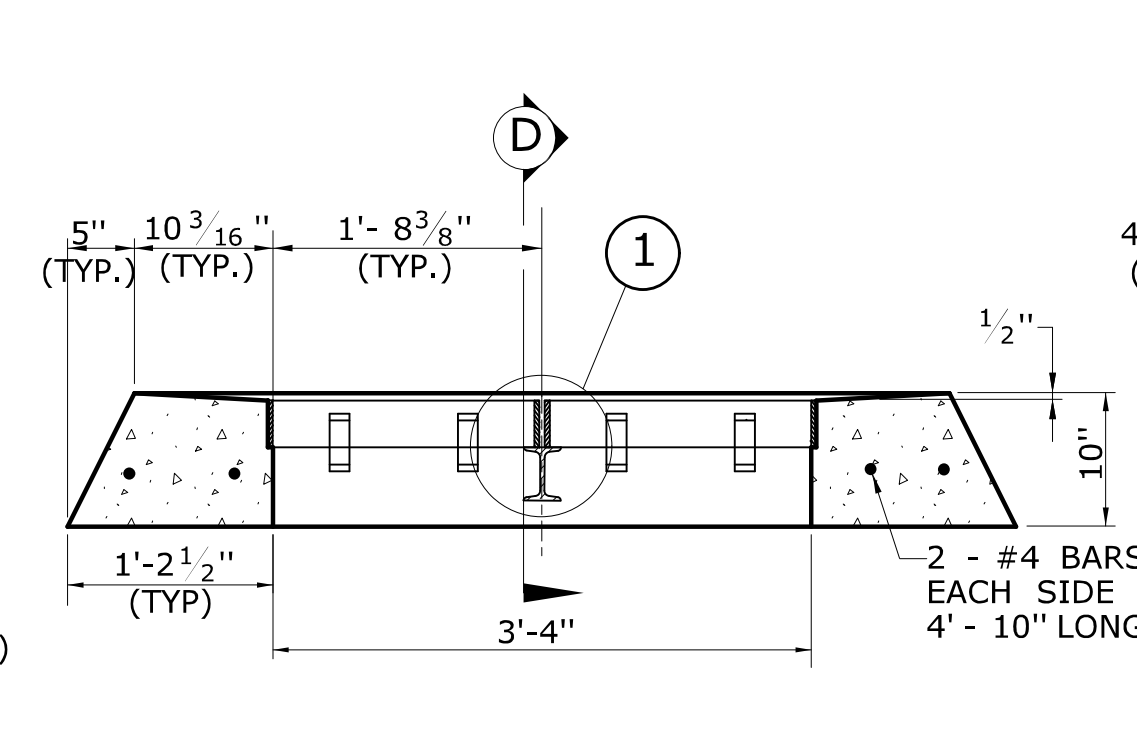
- GENERAL NOTES:**  
 1. FOR DETAILS OF FRAMES AND GRATES, SEE SHEET NO. HW-586-08.  
 2. ALL BARS SHALL HAVE A MINIMUM 2" COVER.



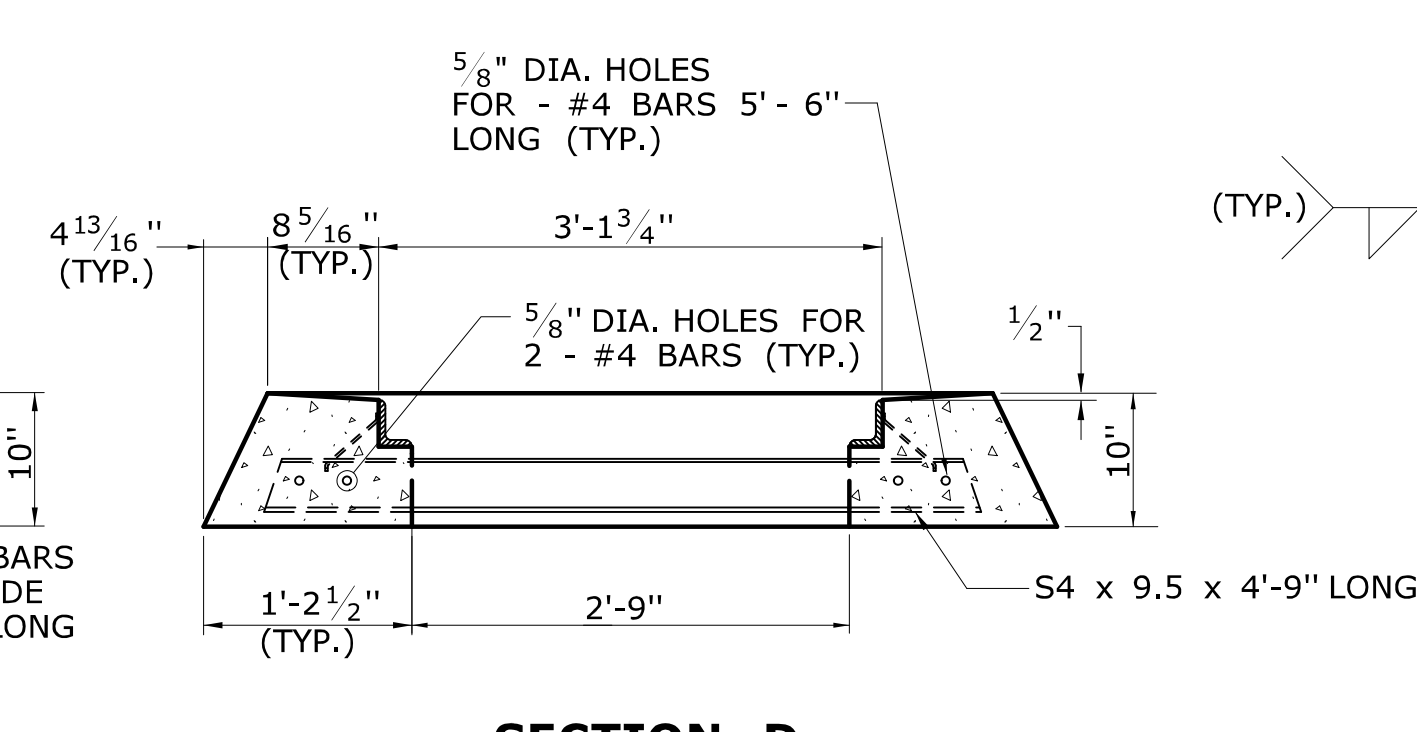
**CROSS SECTION  
TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I TOP**



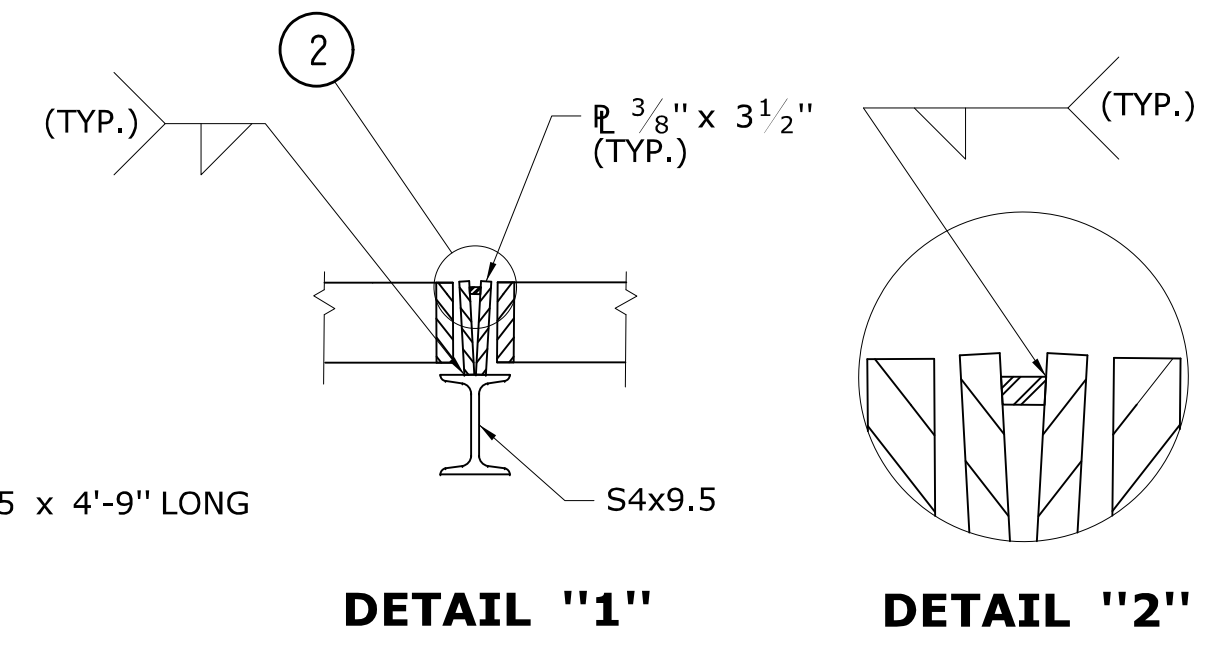
**SECTION C**



**CROSS SECTION  
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE I TOP**

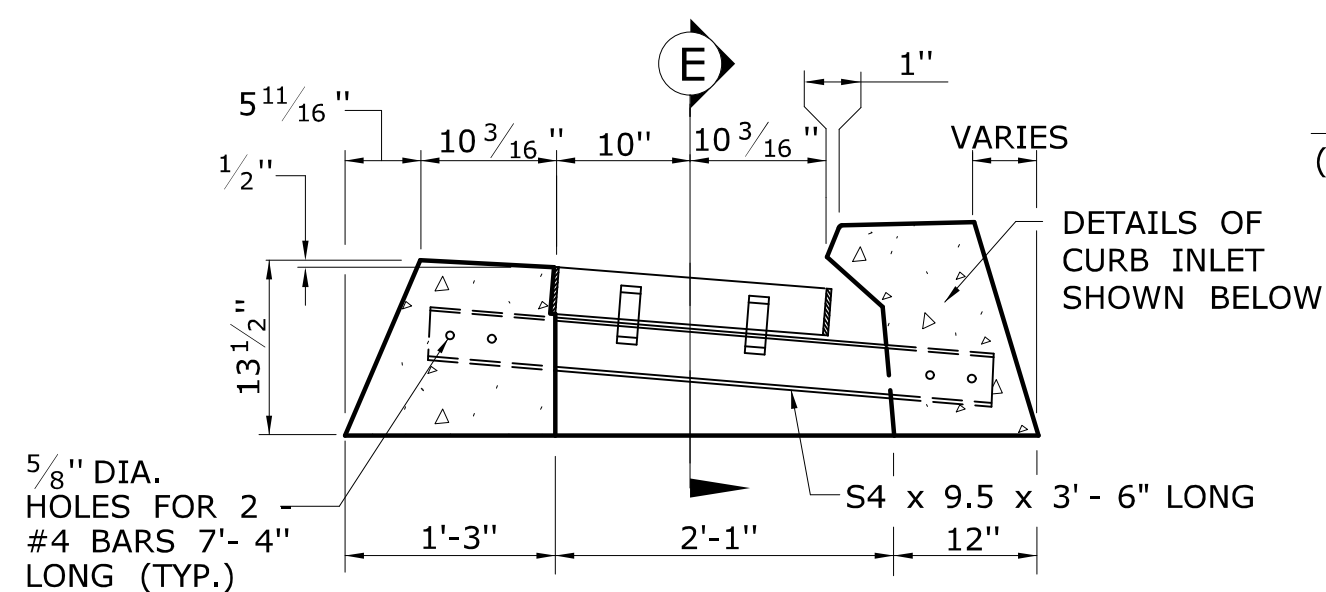


**SECTION D**

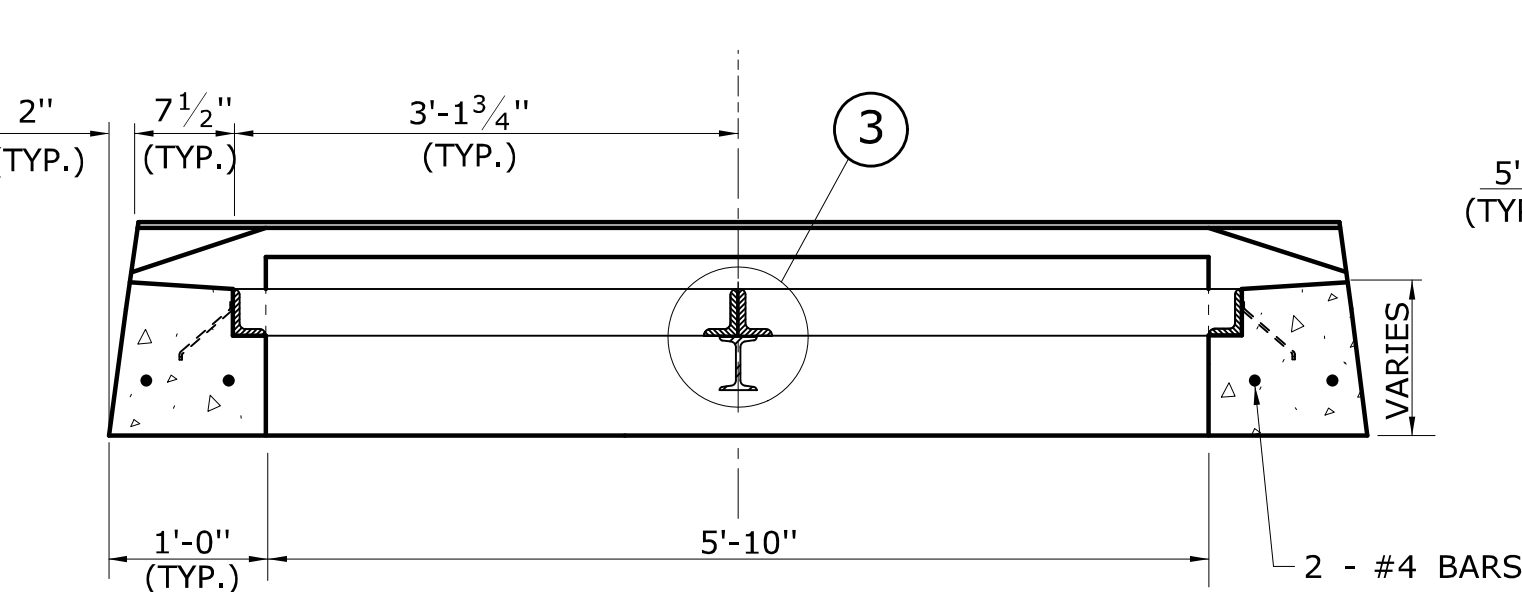


**DETAIL "1"**

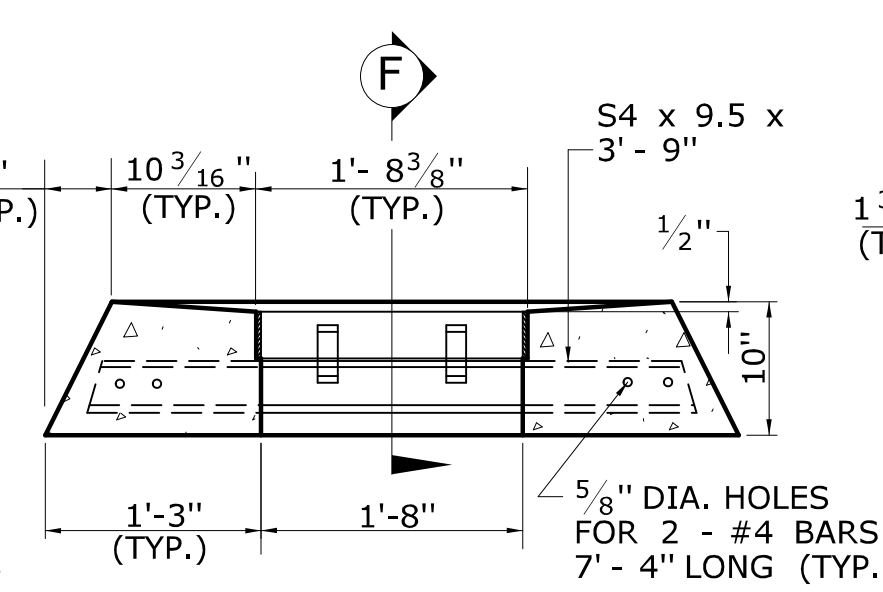
**DETAIL "2"**



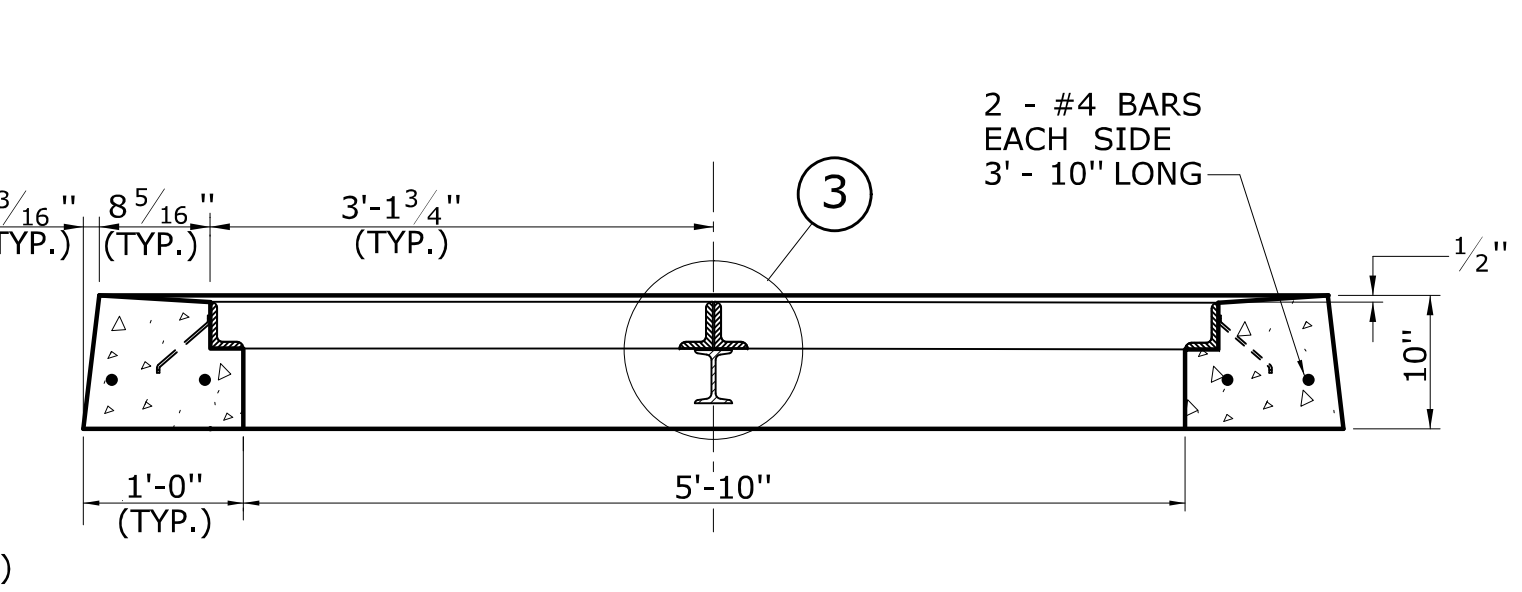
**CROSS SECTION  
TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II TOP**



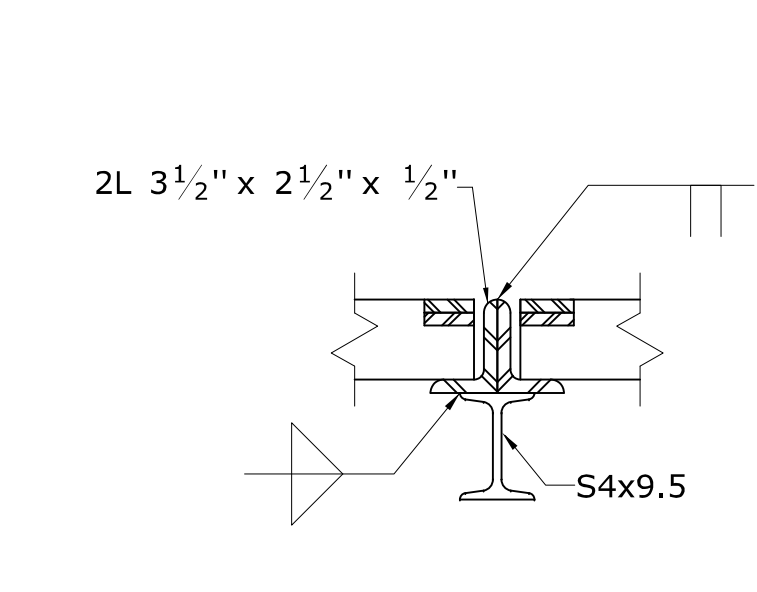
**SECTION E**



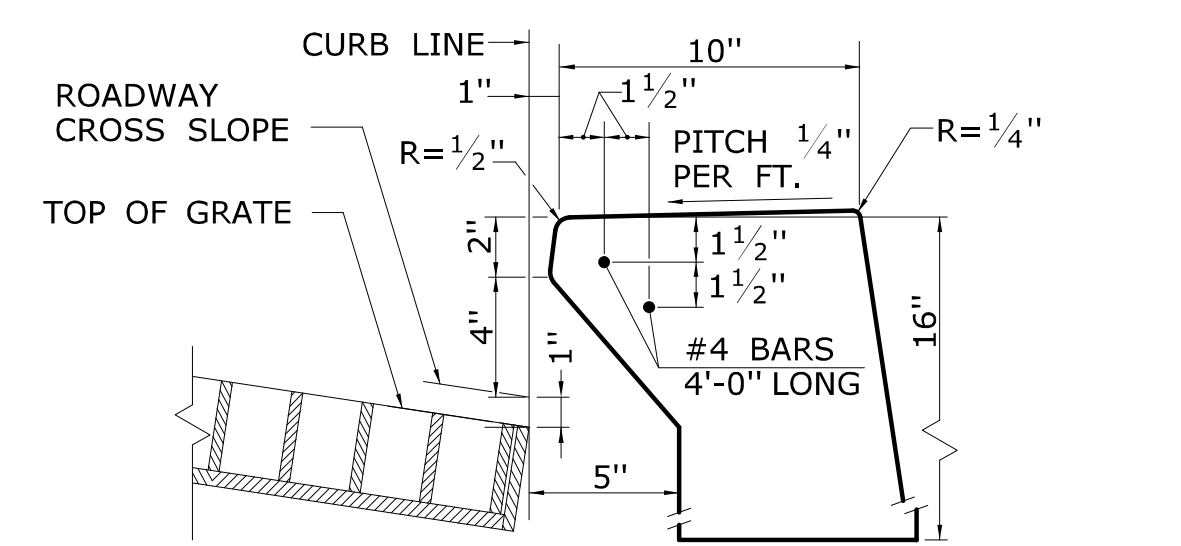
**CROSS SECTION  
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II TOP**



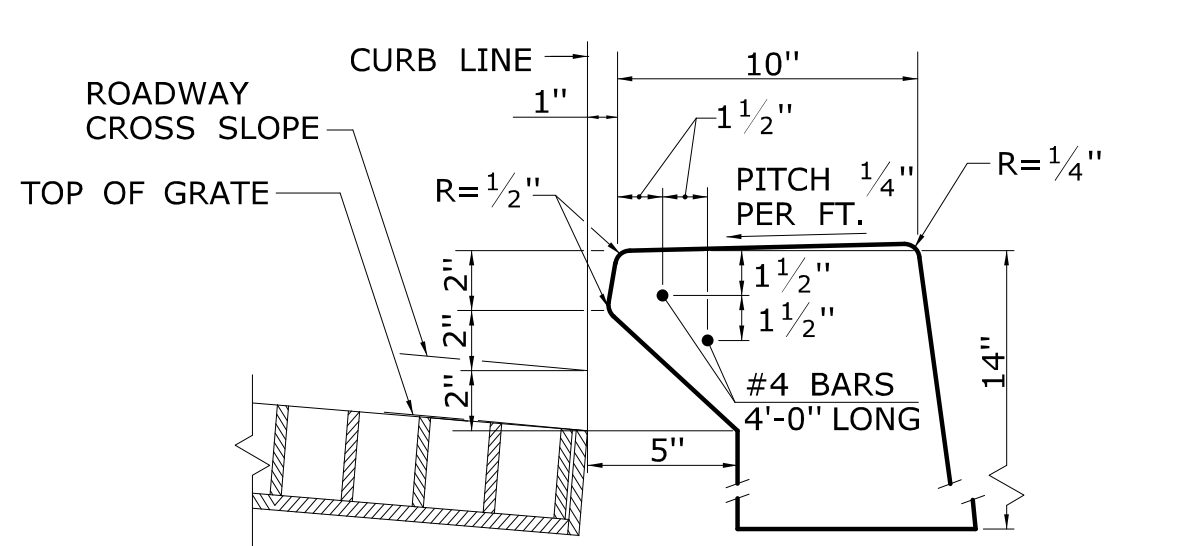
**SECTION F**



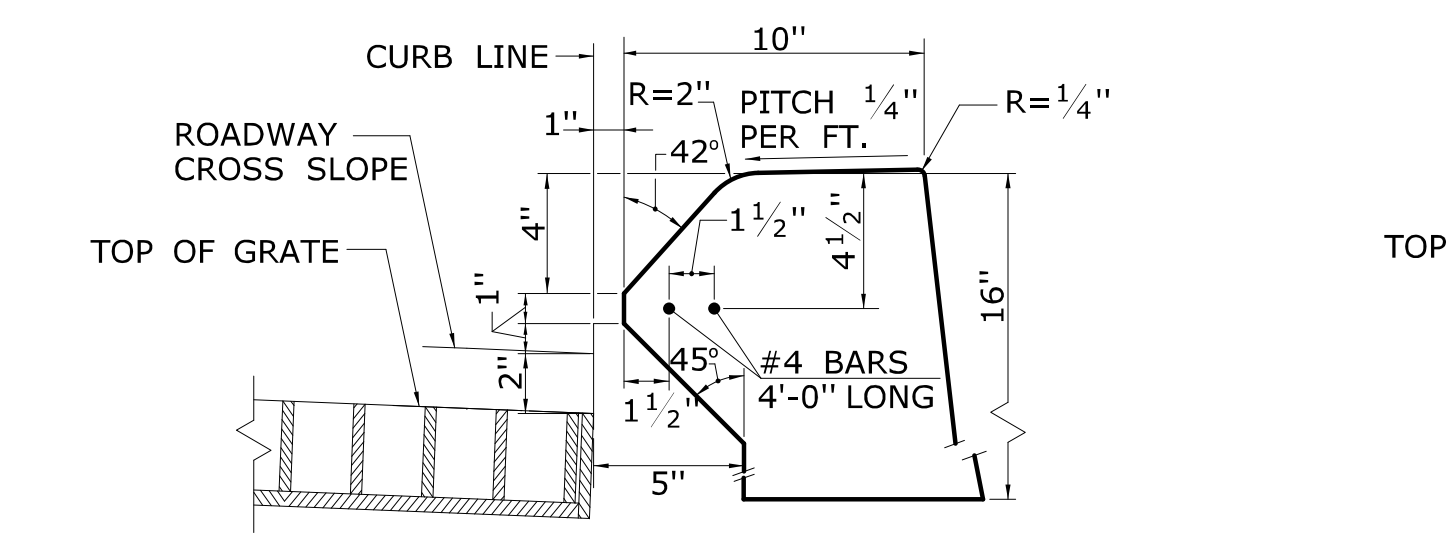
**DETAIL "3"**



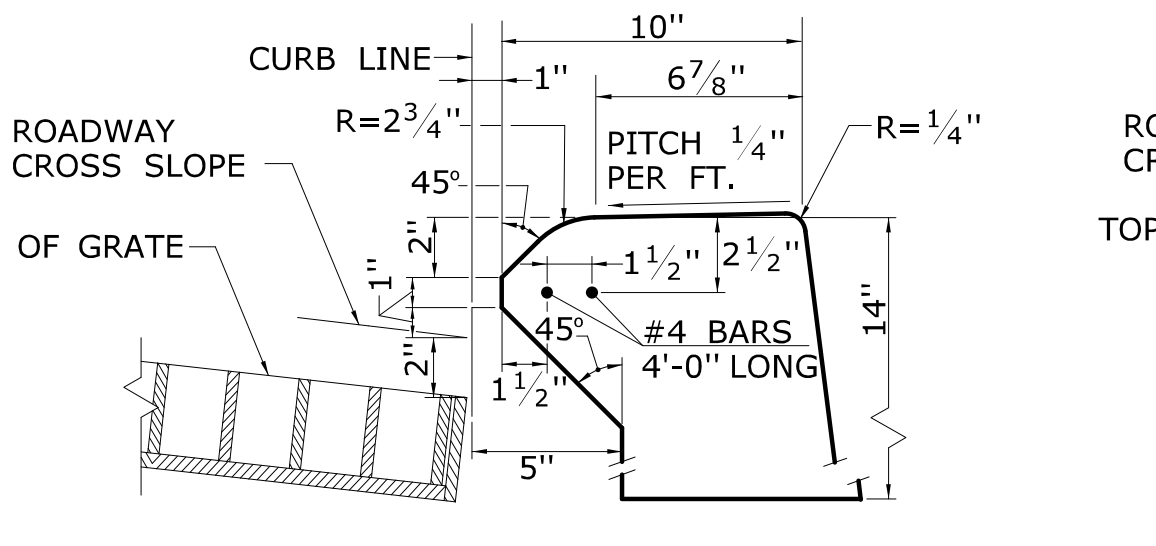
**INLET WITH 6" CONCRETE OR STONE CURBING FOR TYPE "C" CB**



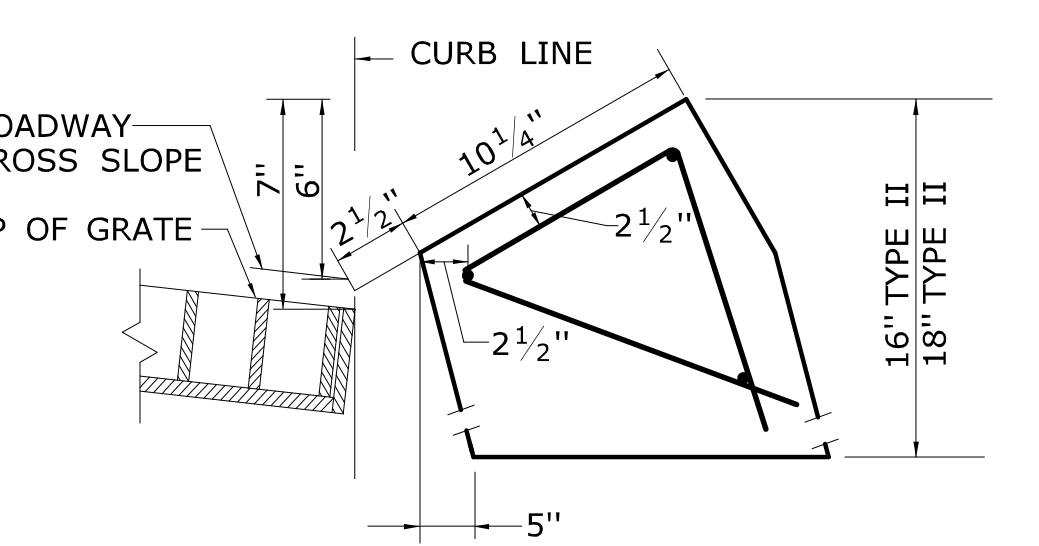
**INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB**



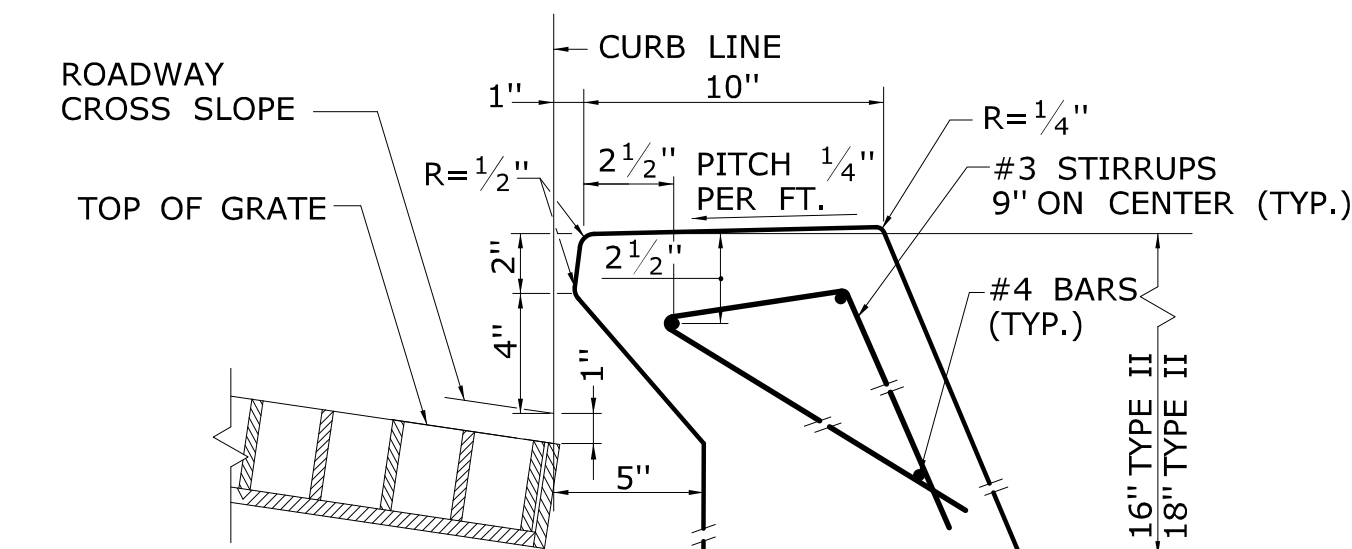
**INLET WITH 6" BITUMINOUS CONCRETE LIP CURBING FOR TYPE "C" CB**



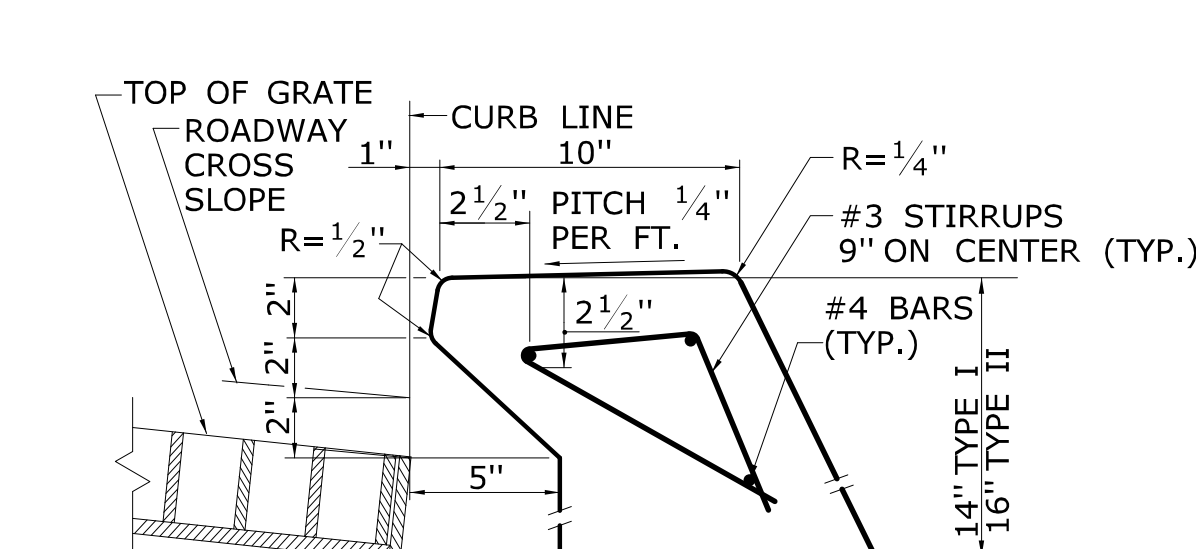
**INLET WITH 4" CONCRETE PARK CURBING FOR TYPE "C" CB**



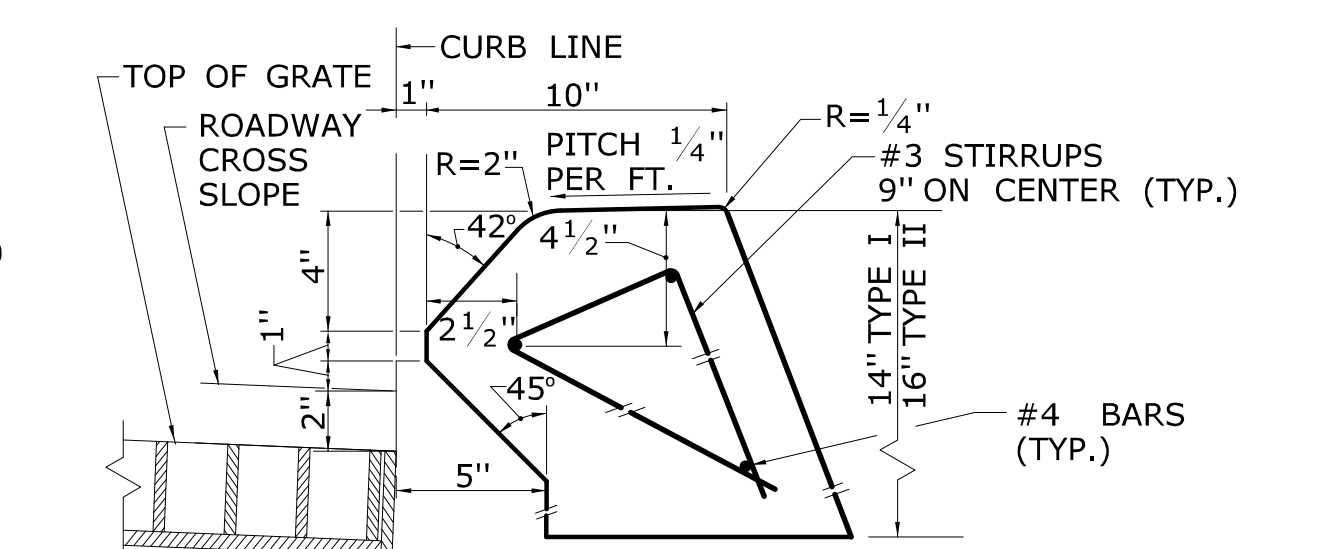
**INLET WITH GRANITE SLOPE CURB FOR TYPE "C" CB**



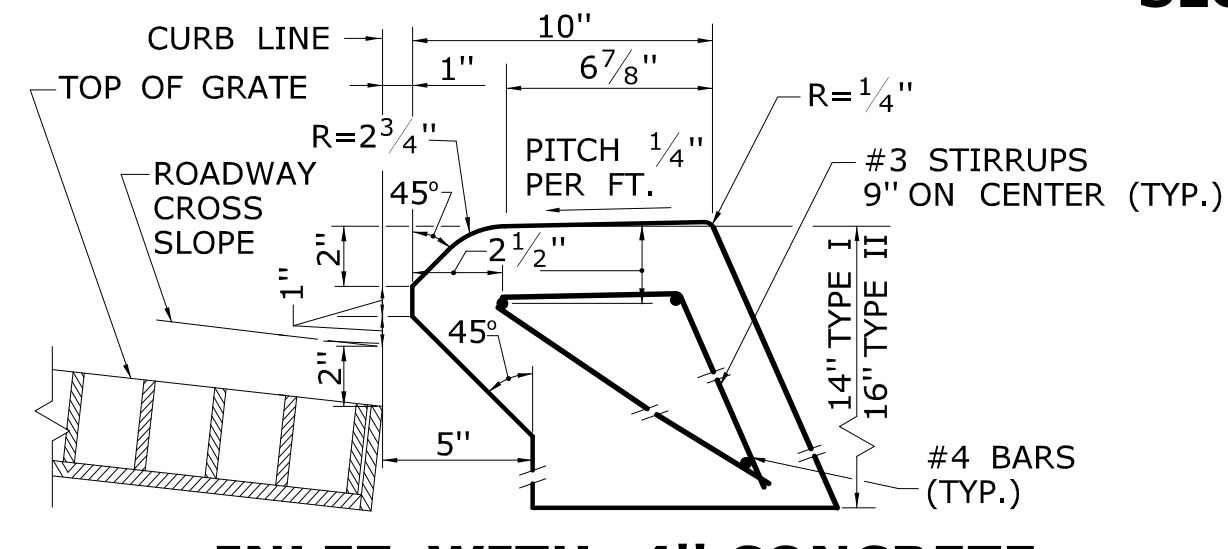
**INLET WITH 6" CONCRETE OR STONE CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II**



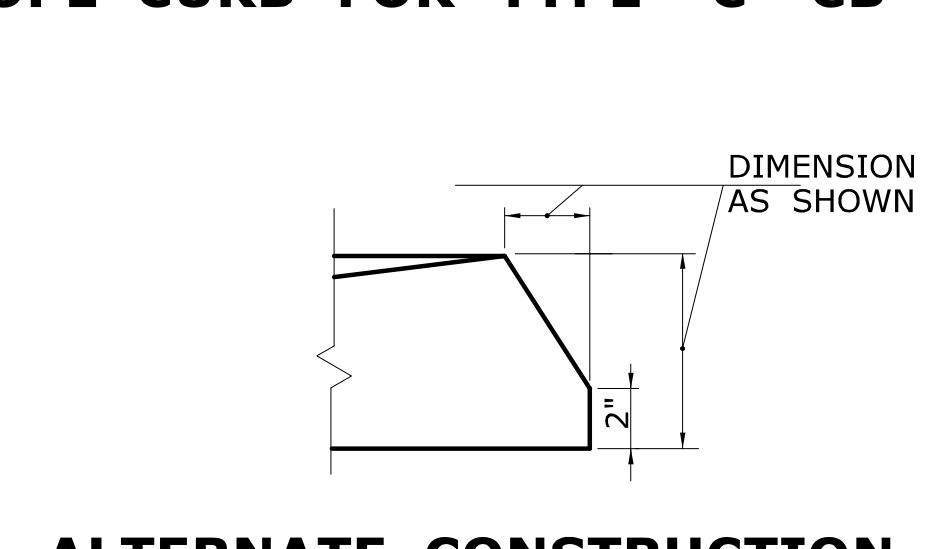
**INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB DOUBLE GRATE TYPE I & II**



**INLET WITH 6" BITUMINOUS CONCRETE LIP CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II**



**INLET WITH 4" CONCRETE PARK CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II**



**ALTERNATE CONSTRUCTION OF TYPE II TOP**

NOT TO SCALE  
####

SIGNATURE BLOCK:  
OFFICE OF ENGINEERING  
2800 BERLIN TURNPIKE  
NEWINGTON, CT 06111

SUBMITTED BY:  
Leo Fontaine, P.E.  
2020.07.08  
09:24:52-04'00"

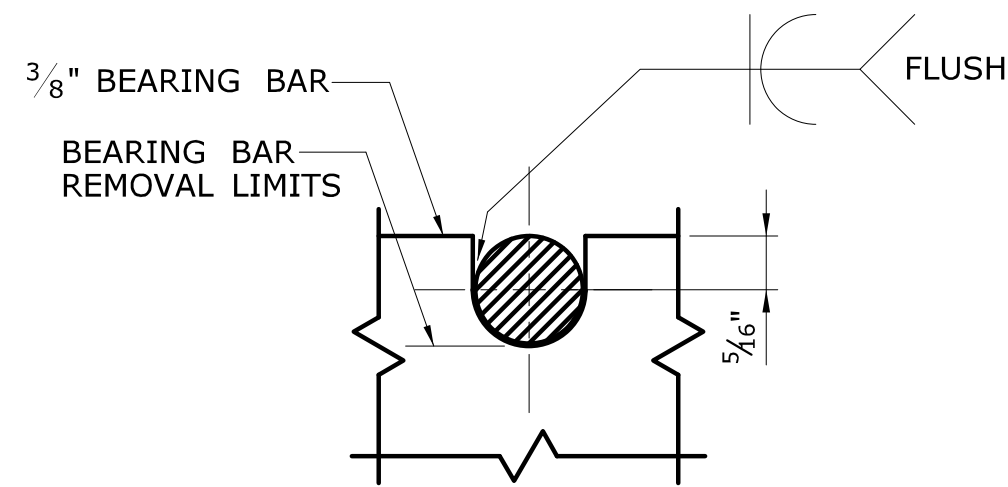
APPROVED BY:  
James Fallon, P.E.

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

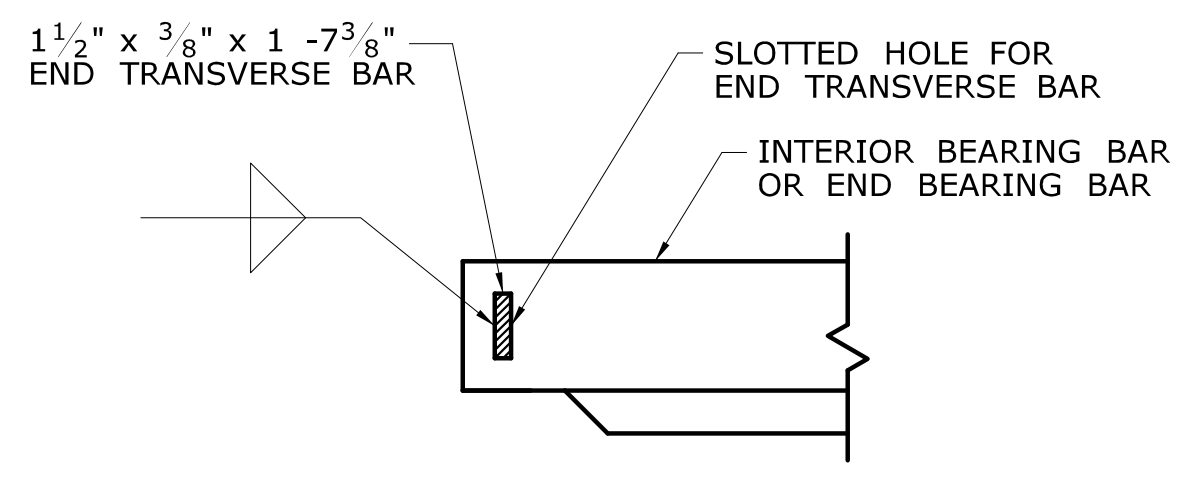
CTDOT  
STANDARD SHEET

STANDARD SHEET TITLE:  
CATCH BASIN TOPS TYPE "C" AND "C-L"

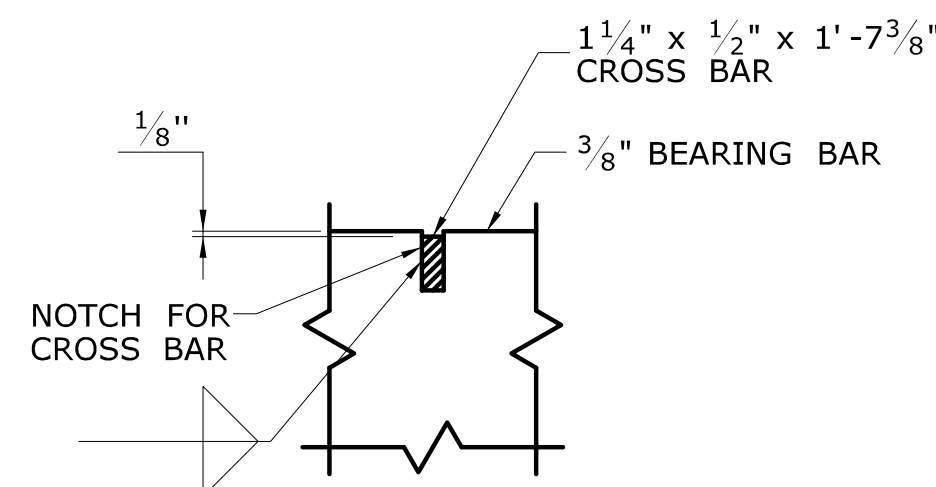
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HW-586\_07



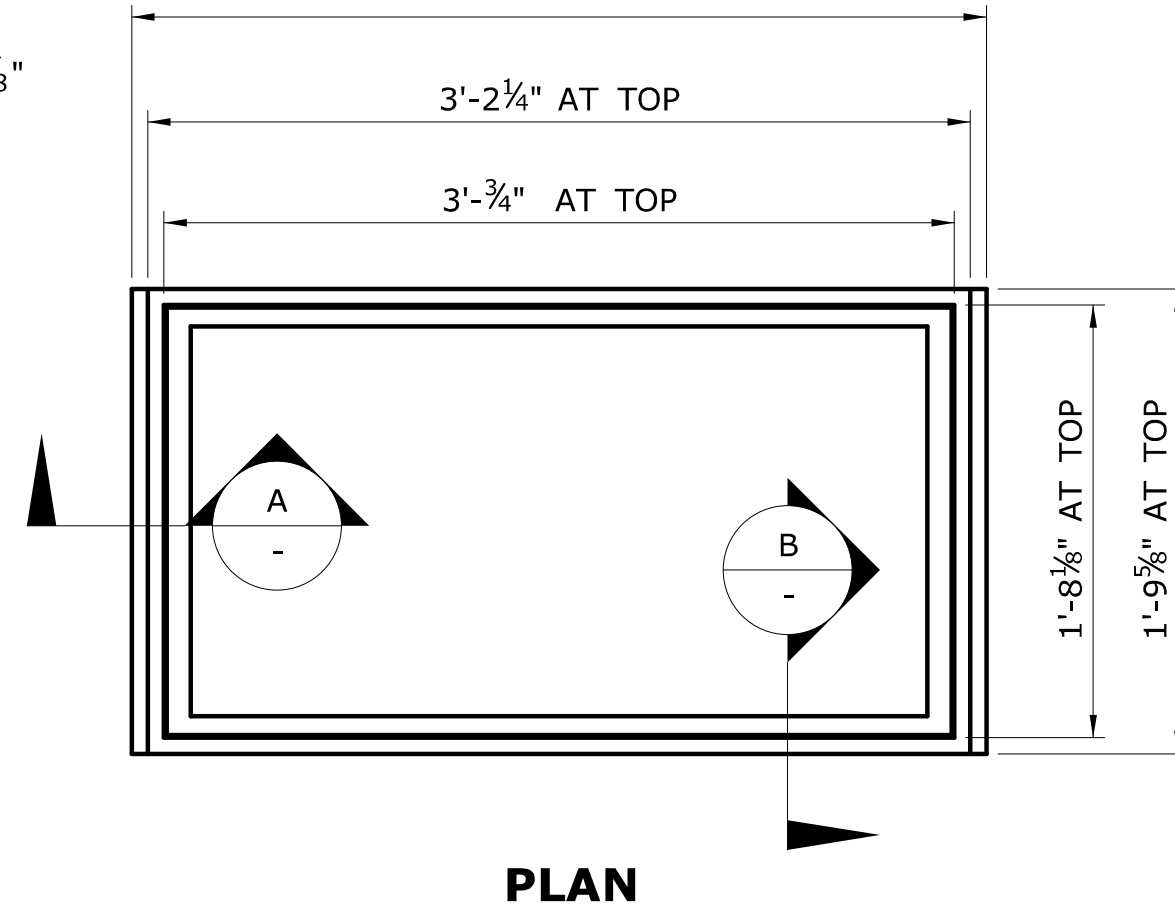
**ROUND BAR ATTACHMENT  
CATCH BASIN GRATE TYPE A**



**END TRANSVERSE BAR ATTACHMENT  
CATCH BASIN GRATE TYPE A AND B**



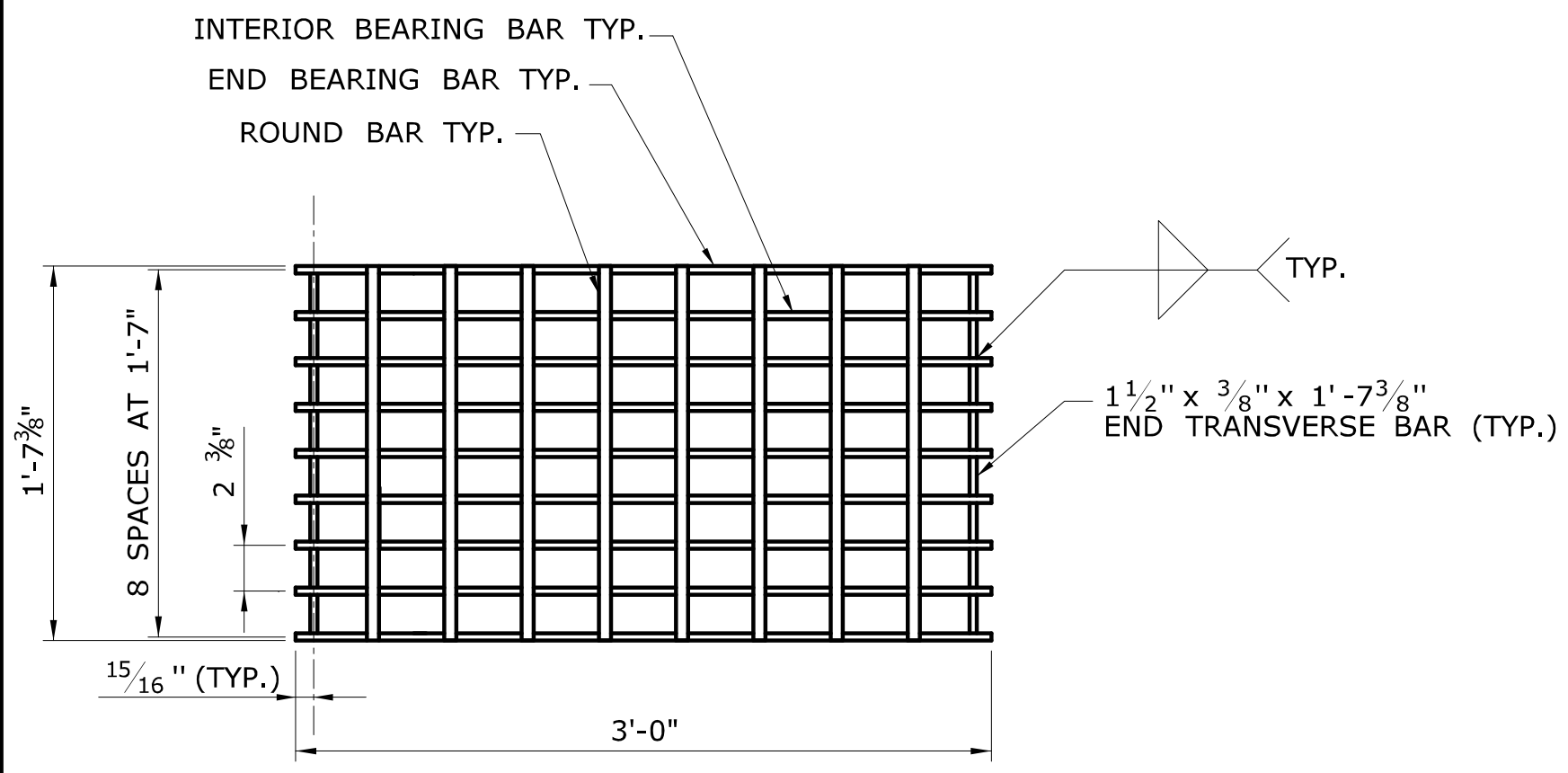
**CROSS BAR ATTACHMENT  
CATCH BASIN GRATE TYPE B**



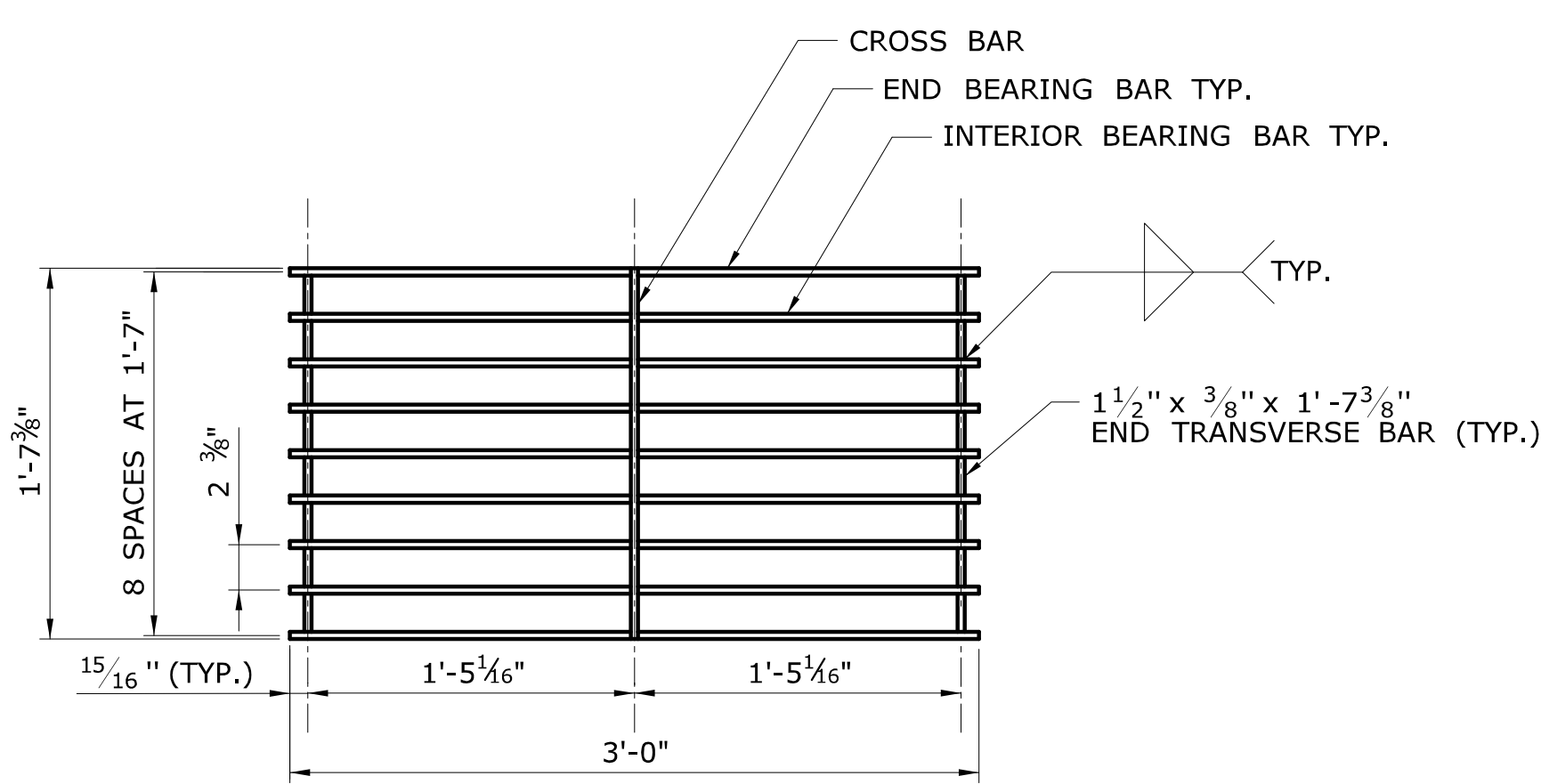
**PLAN**

**GENERAL NOTES:**

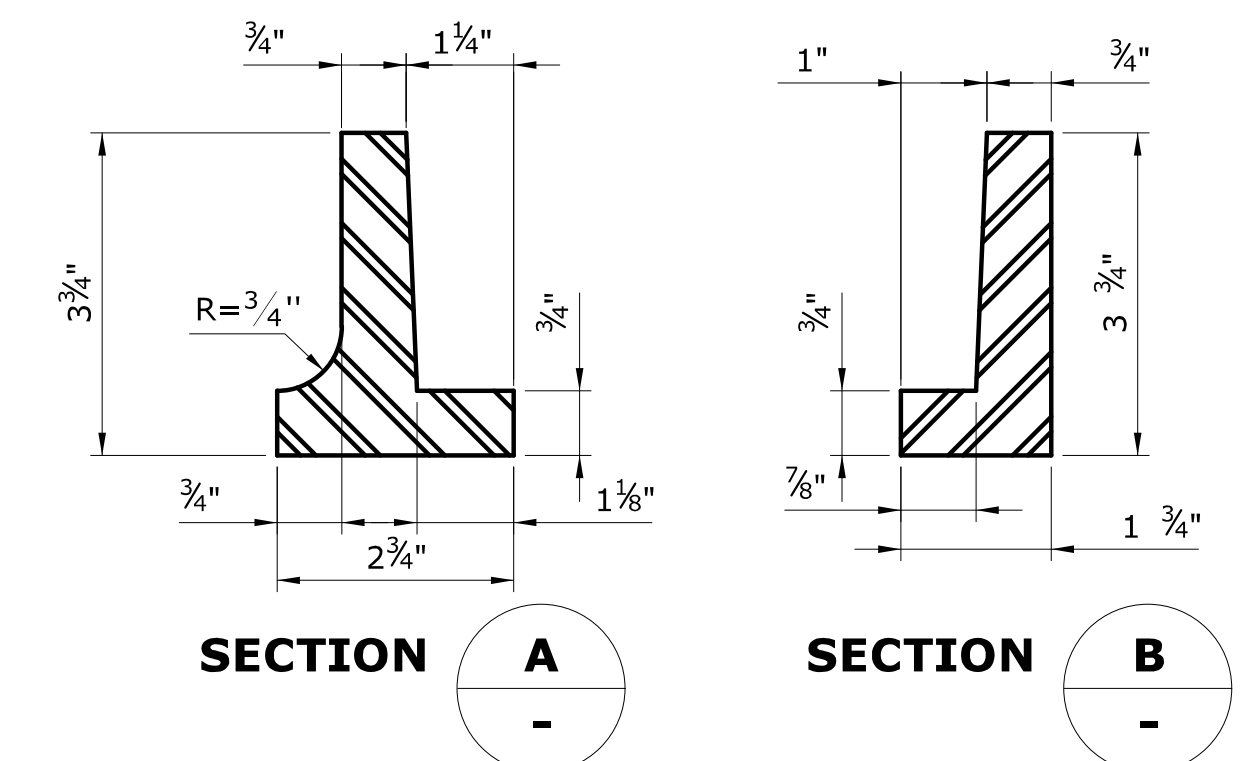
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" AND "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR ON HEAVY DUTY LOCK DOWN TOPS AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMPS AND WHERE BICYCLE TRAFFIC IS NOT ALLOWED OR AS DIRECTED BY THE ENGINEER.
4. DO NOT GALVANIZE CAST IRON FRAMES.
5. DIMENSIONAL TOLERANCES SHALL BE  $\pm 1/16$  INCH.
6. ALL STEEL BARS SHALL BE WELDED AT ALL INTERSECTIONS.



**PLAN**



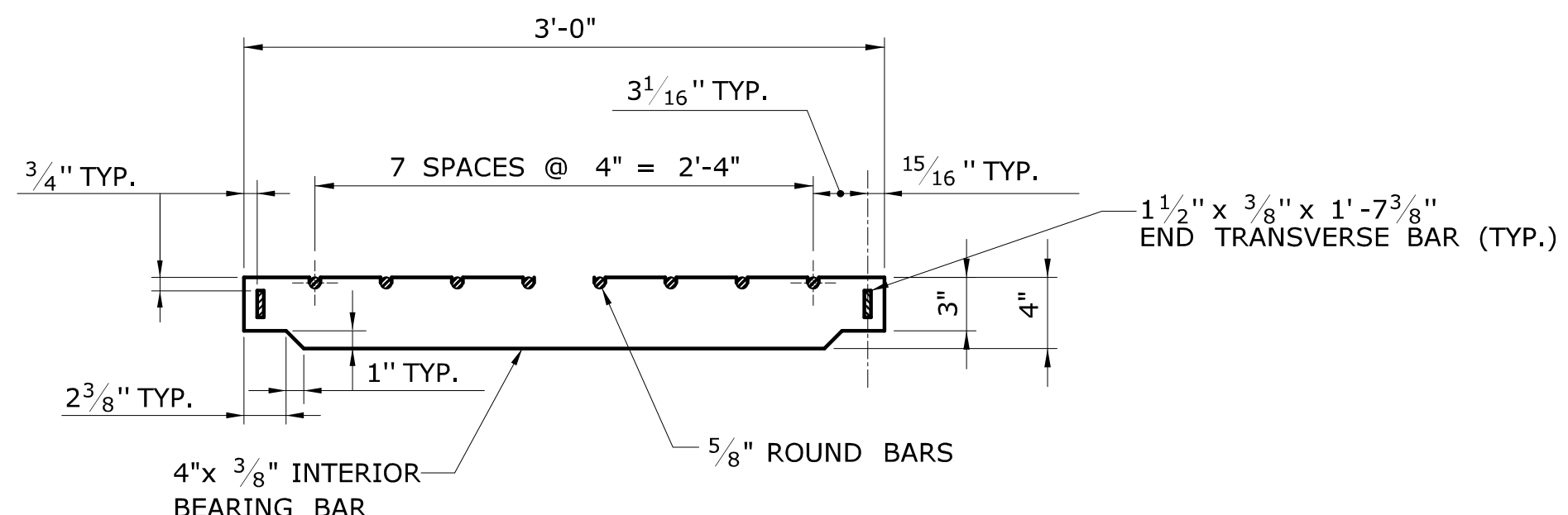
**PLAN**



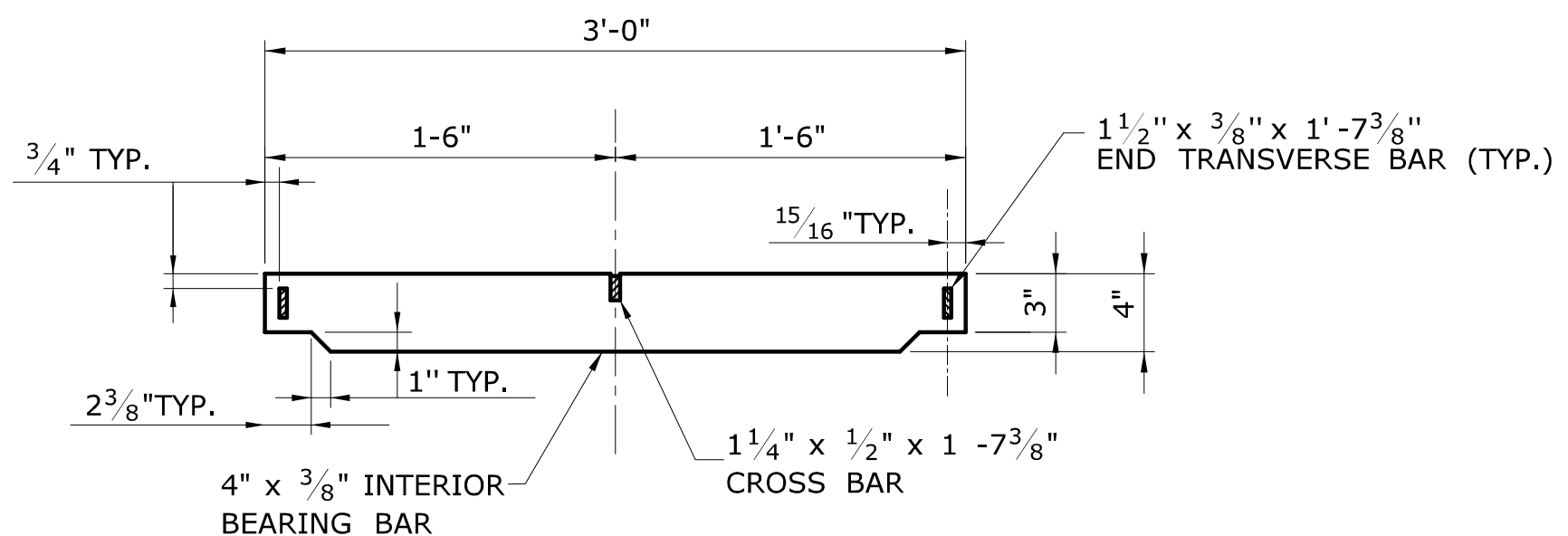
**SECTION A**

**SECTION B**

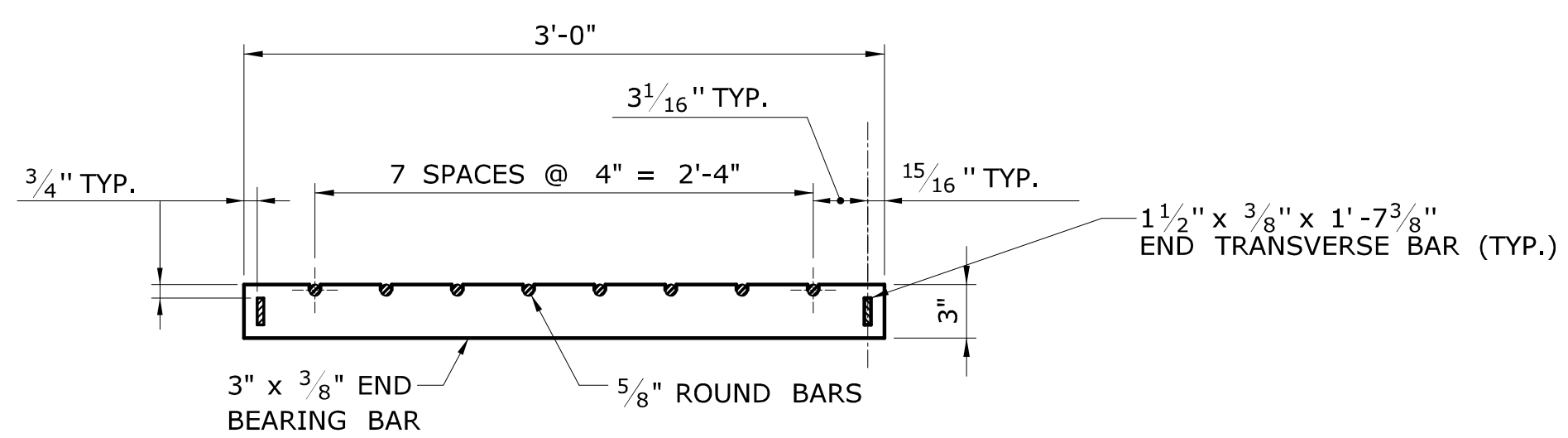
**CAST IRON FRAME ALTERNATE**



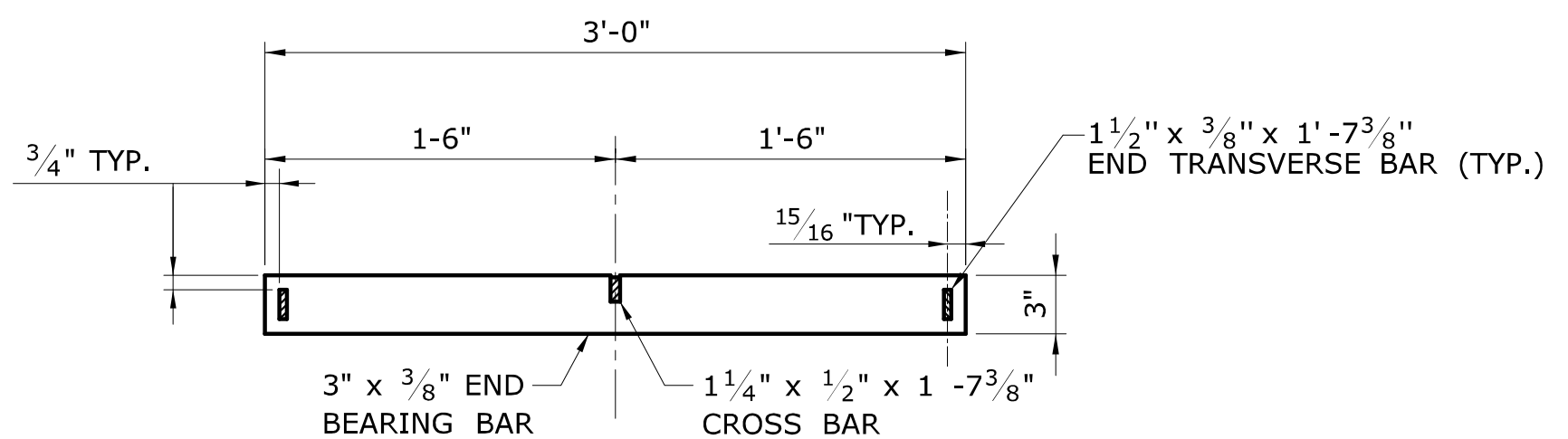
**ELEVATION- INTERIOR BEARING BAR  
CATCH BASIN GRATE TYPE A**



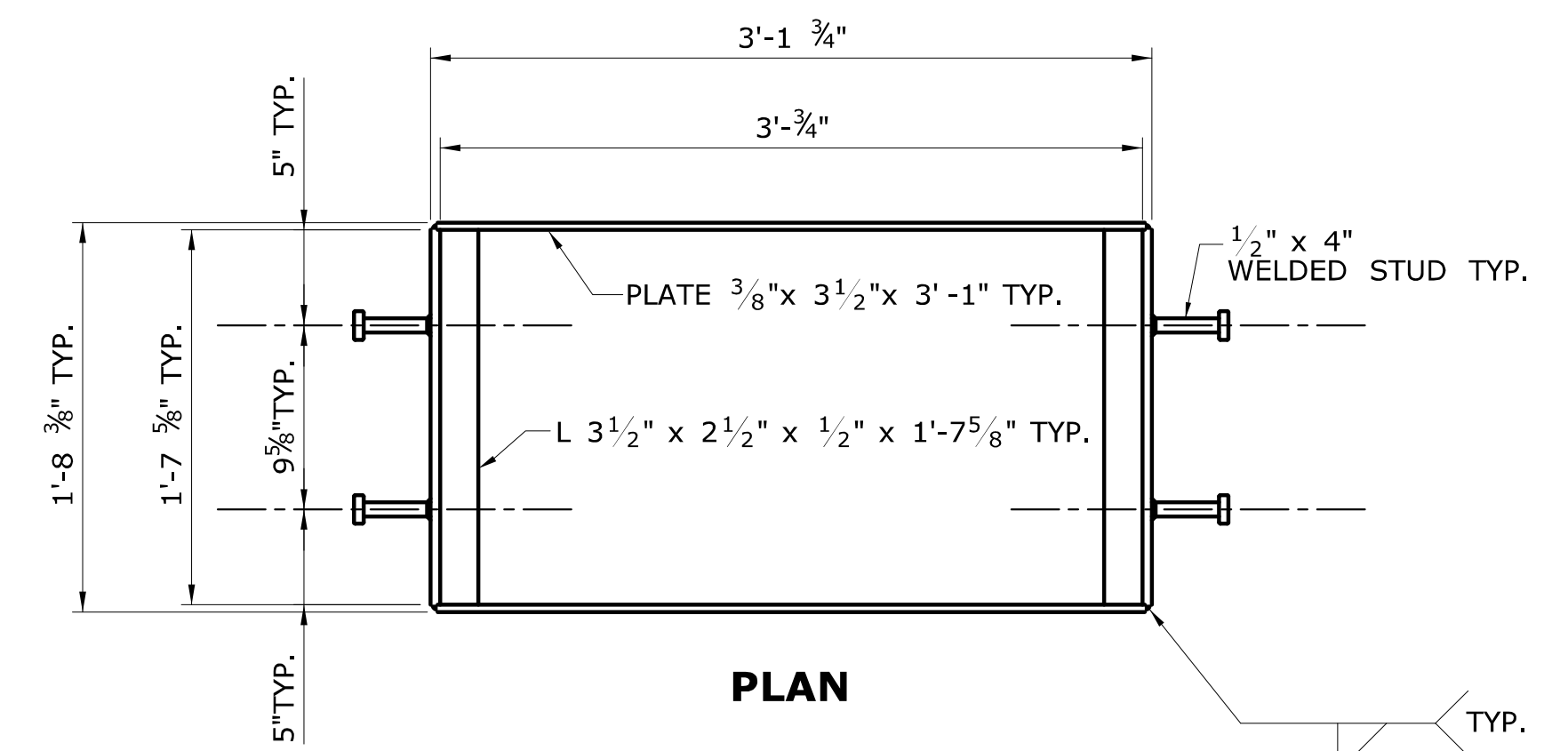
**ELEVATION- INTERIOR BEARING BAR  
CATCH BASIN GRATE TYPE B**



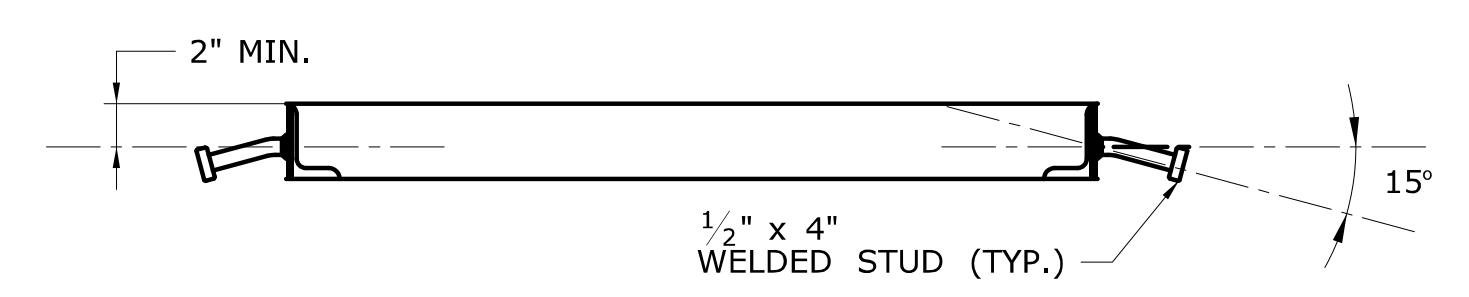
**ELEVATION- END BEARING BAR  
CATCH BASIN GRATE TYPE A**



**ELEVATION- END BEARING BAR  
CATCH BASIN GRATE TYPE B**

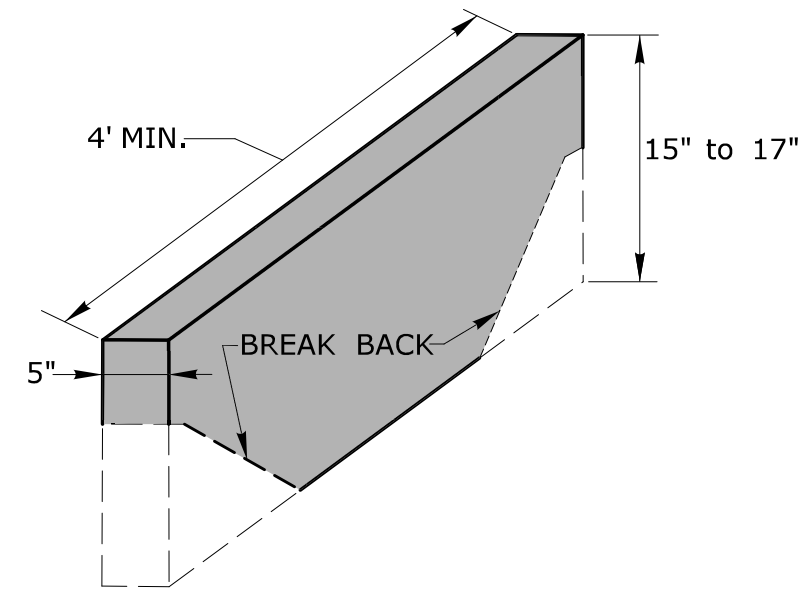


**PLAN**

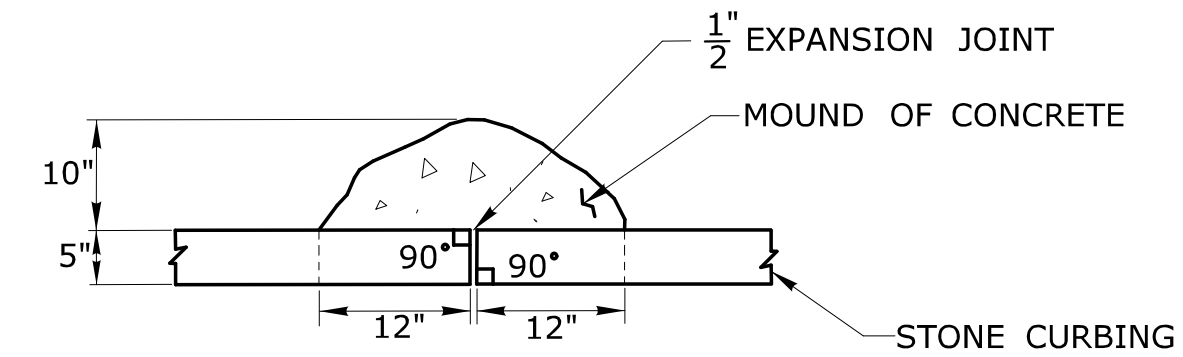


**WELDED STUD ANCHOR DETAILS  
STEEL FRAME**

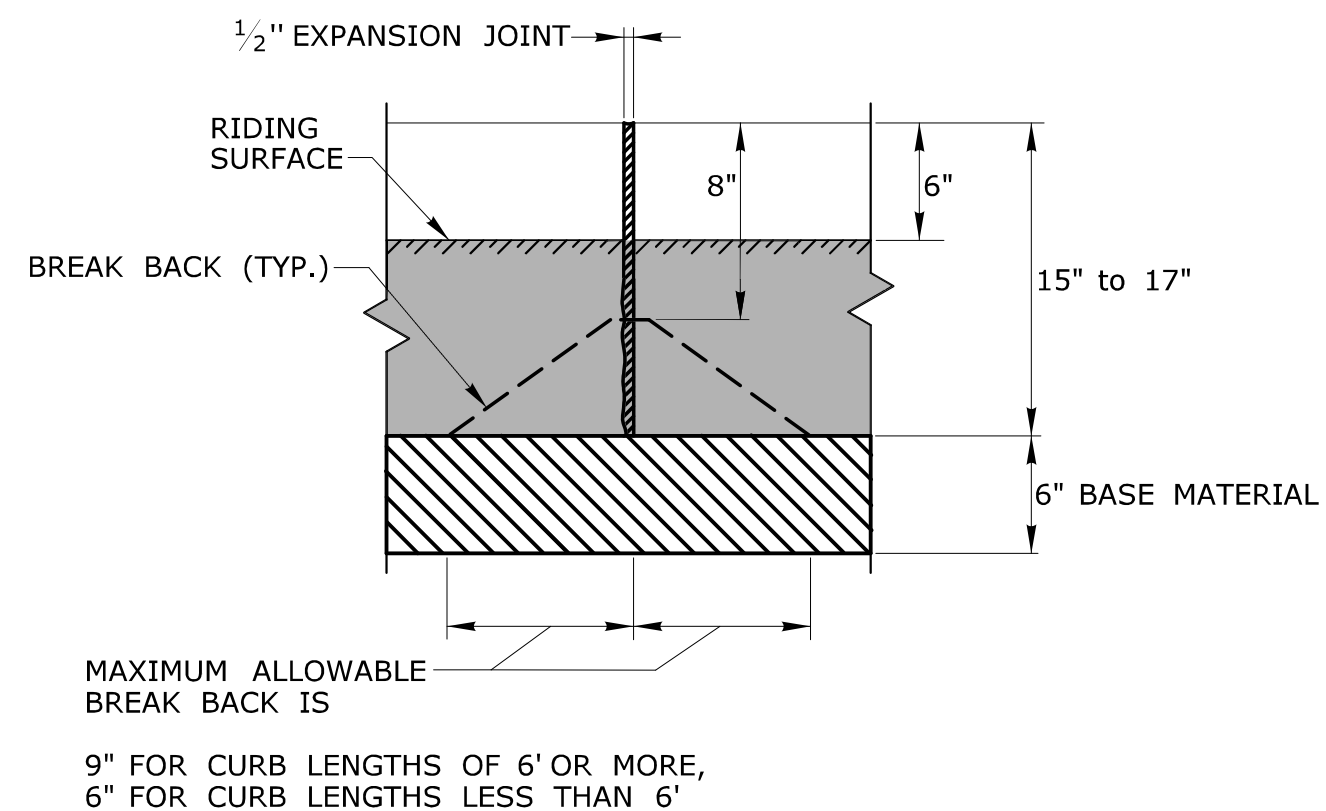




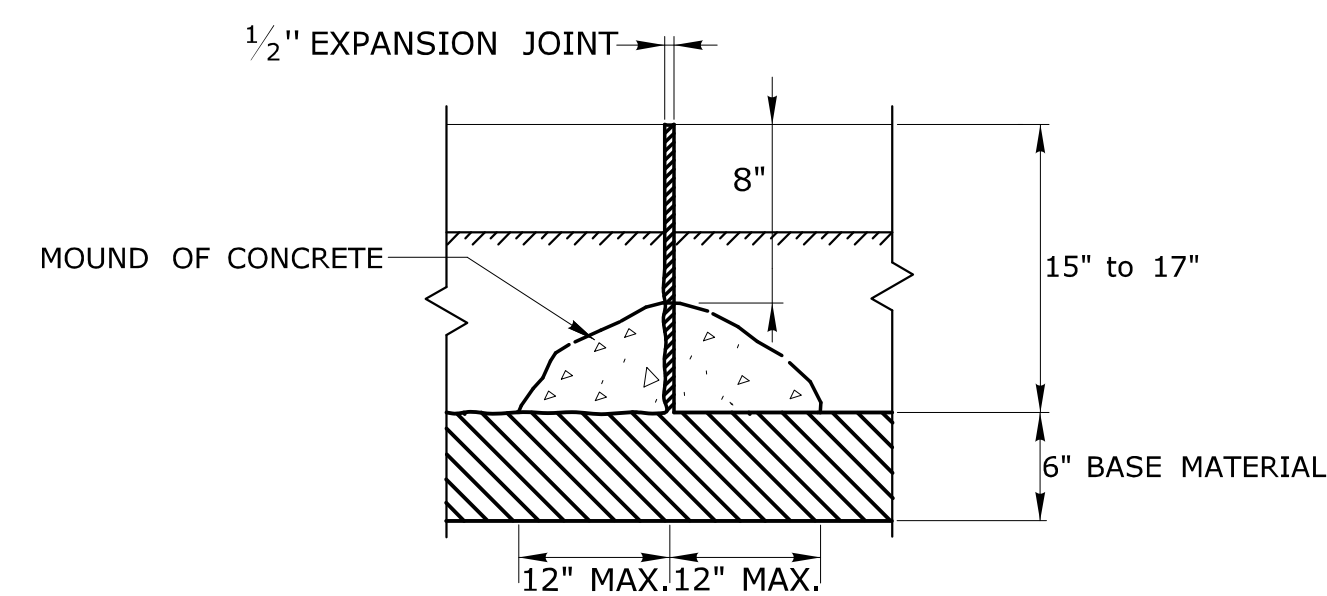
**STONE CURBING**



**PLAN**

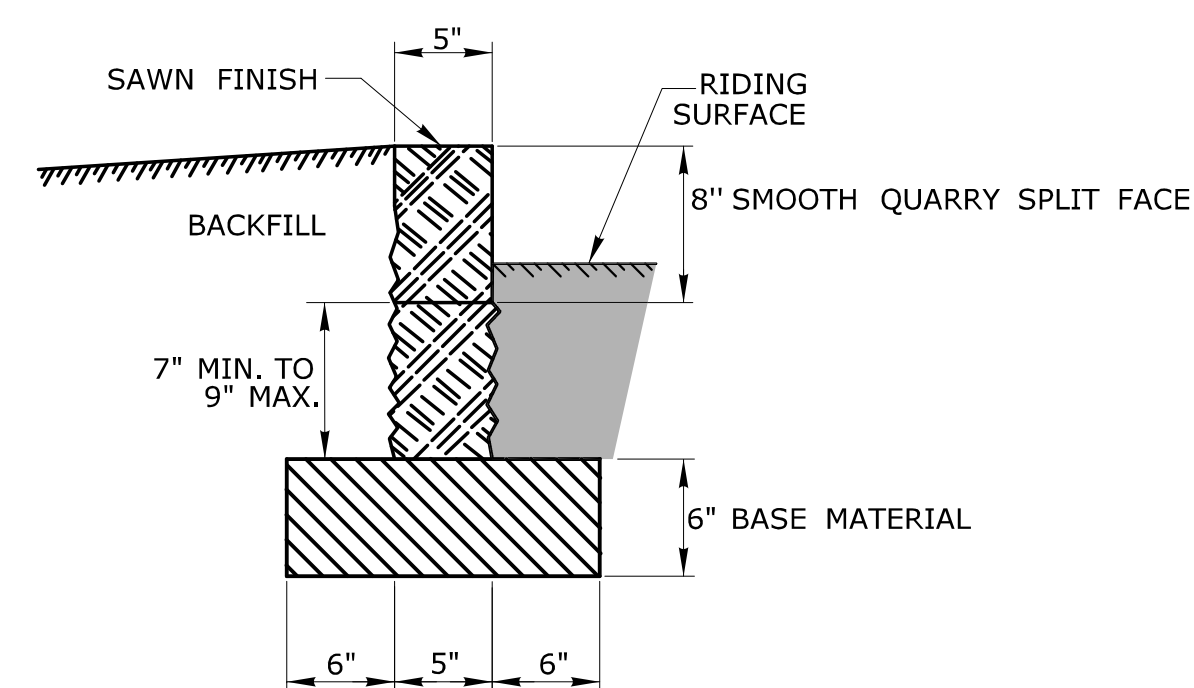


**FRONT  
ELEVATION**

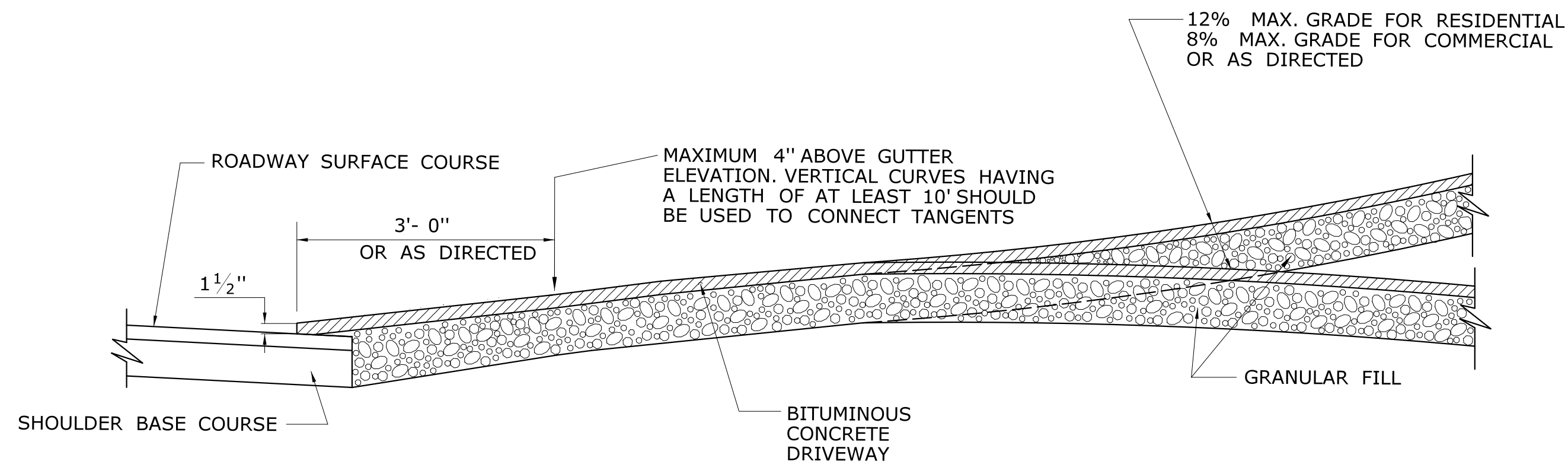


**BACK  
ELEVATION**

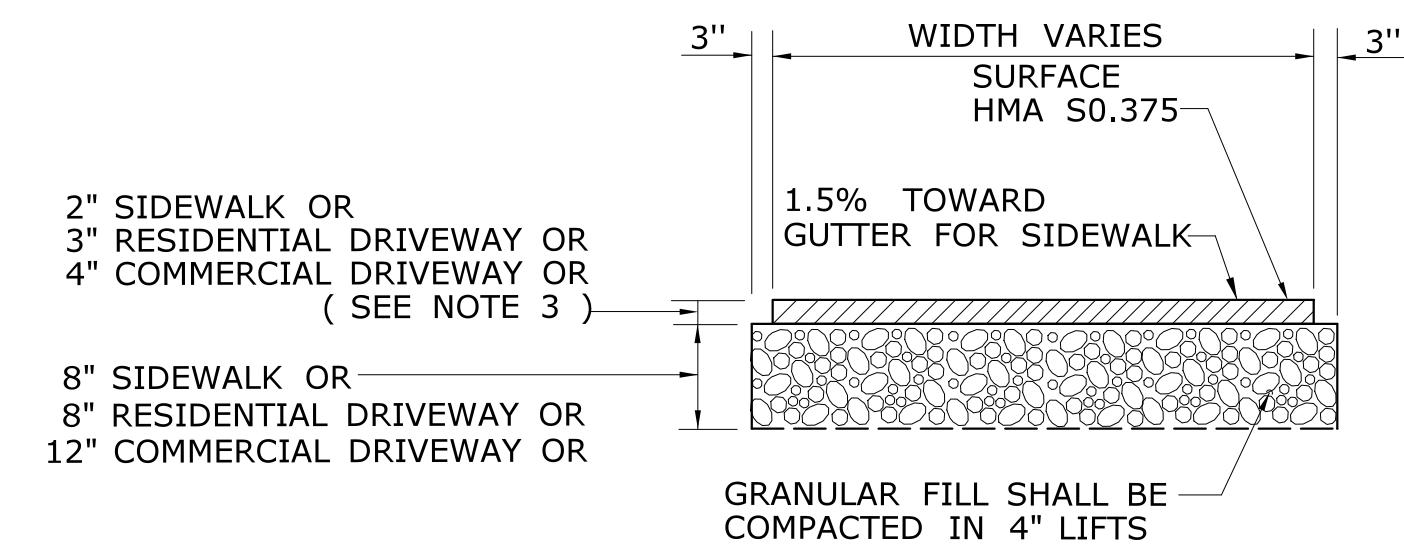
**MOUND OF CONCRETE AT ALL JOINTS  
FOR STONE CURBING**



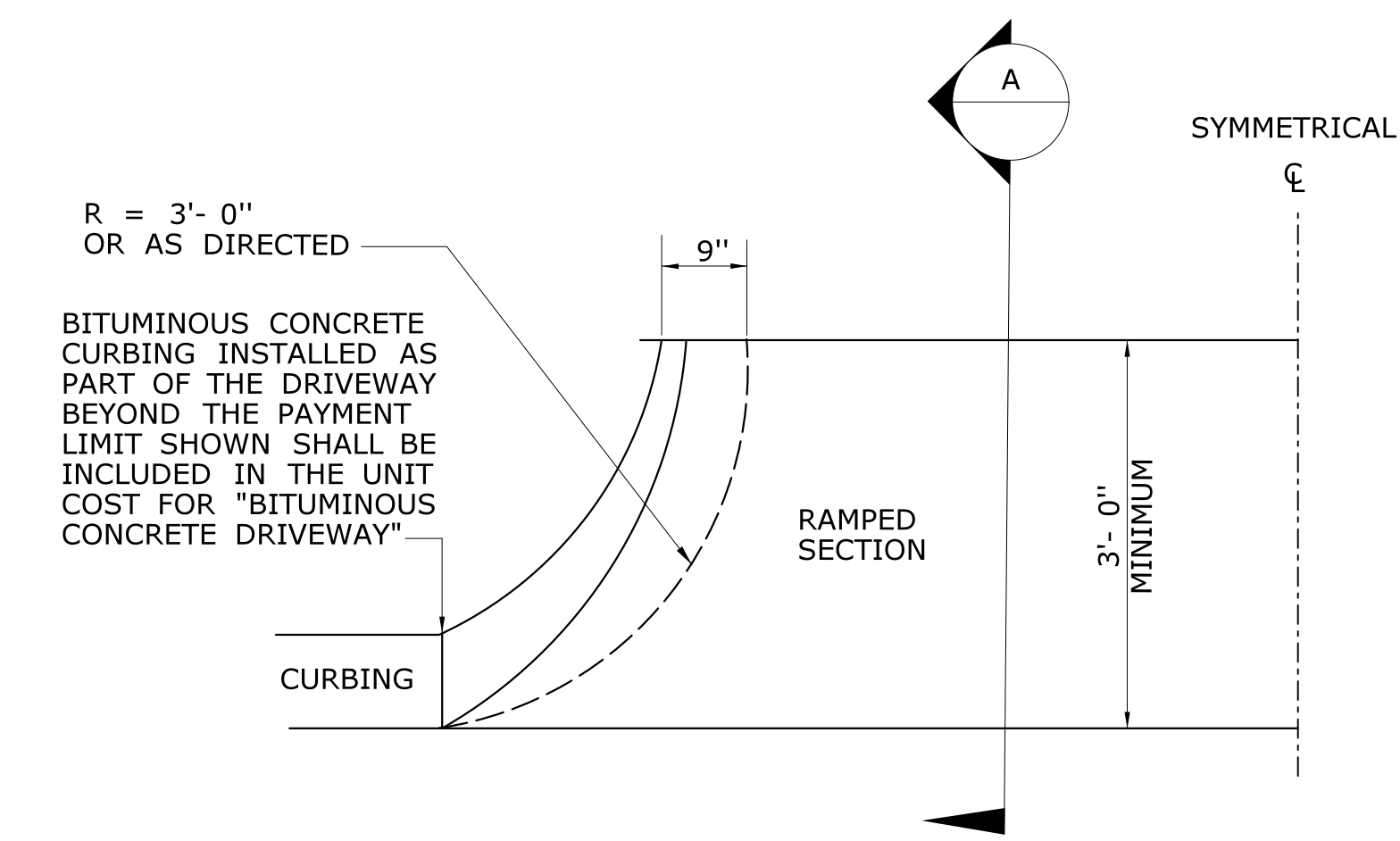
**SECTION**



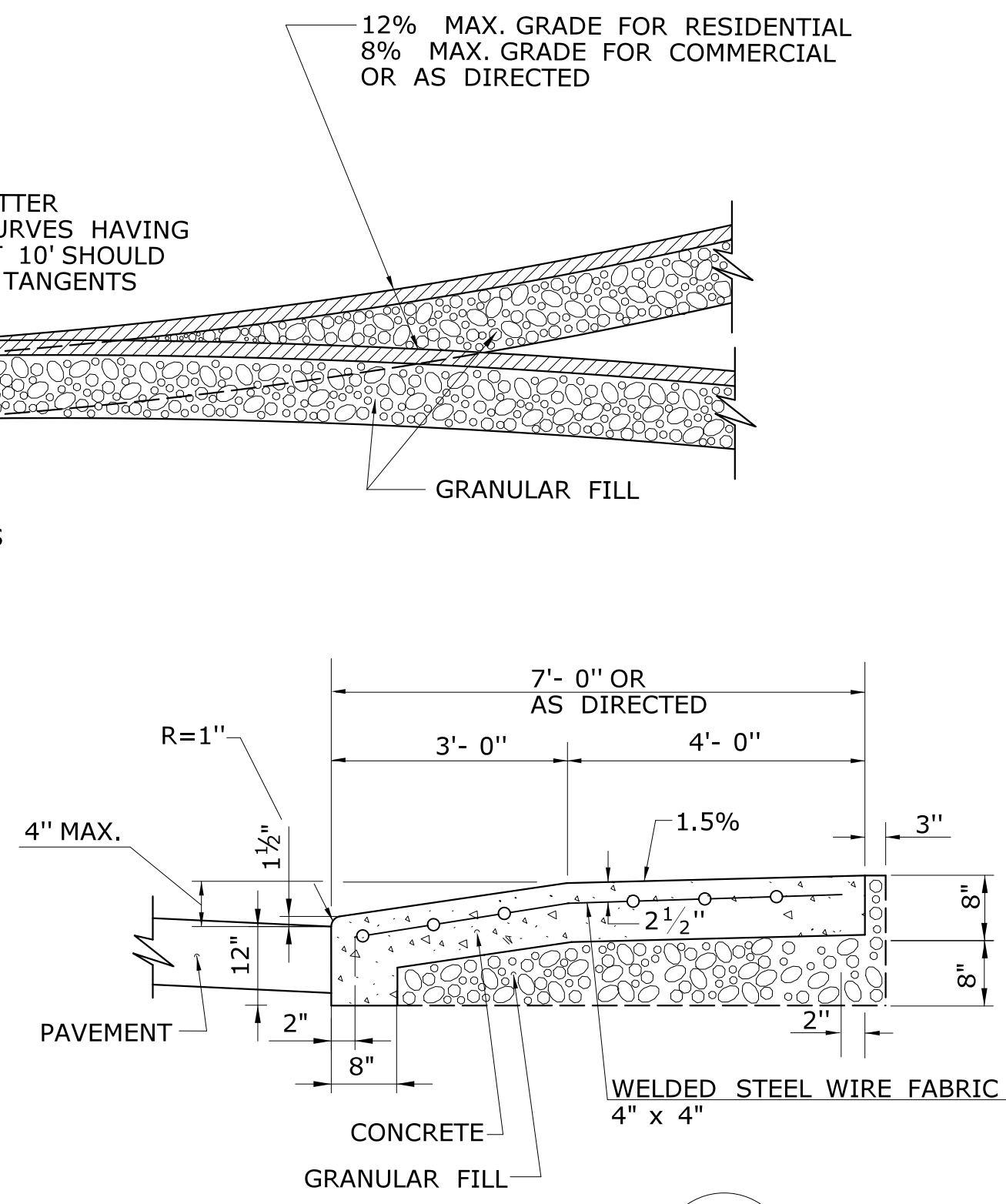
**SECTION A**



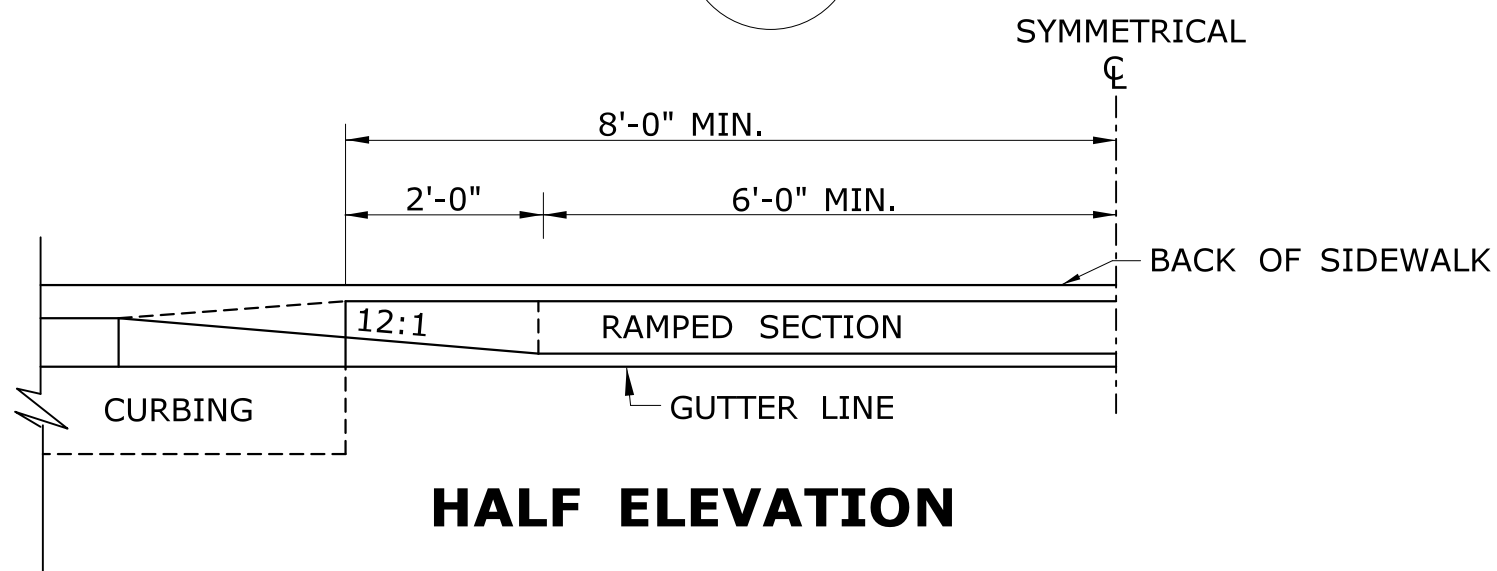
**TYPICAL SECTION  
BITUMINOUS CONCRETE  
SIDEWALK AND DRIVEWAY**



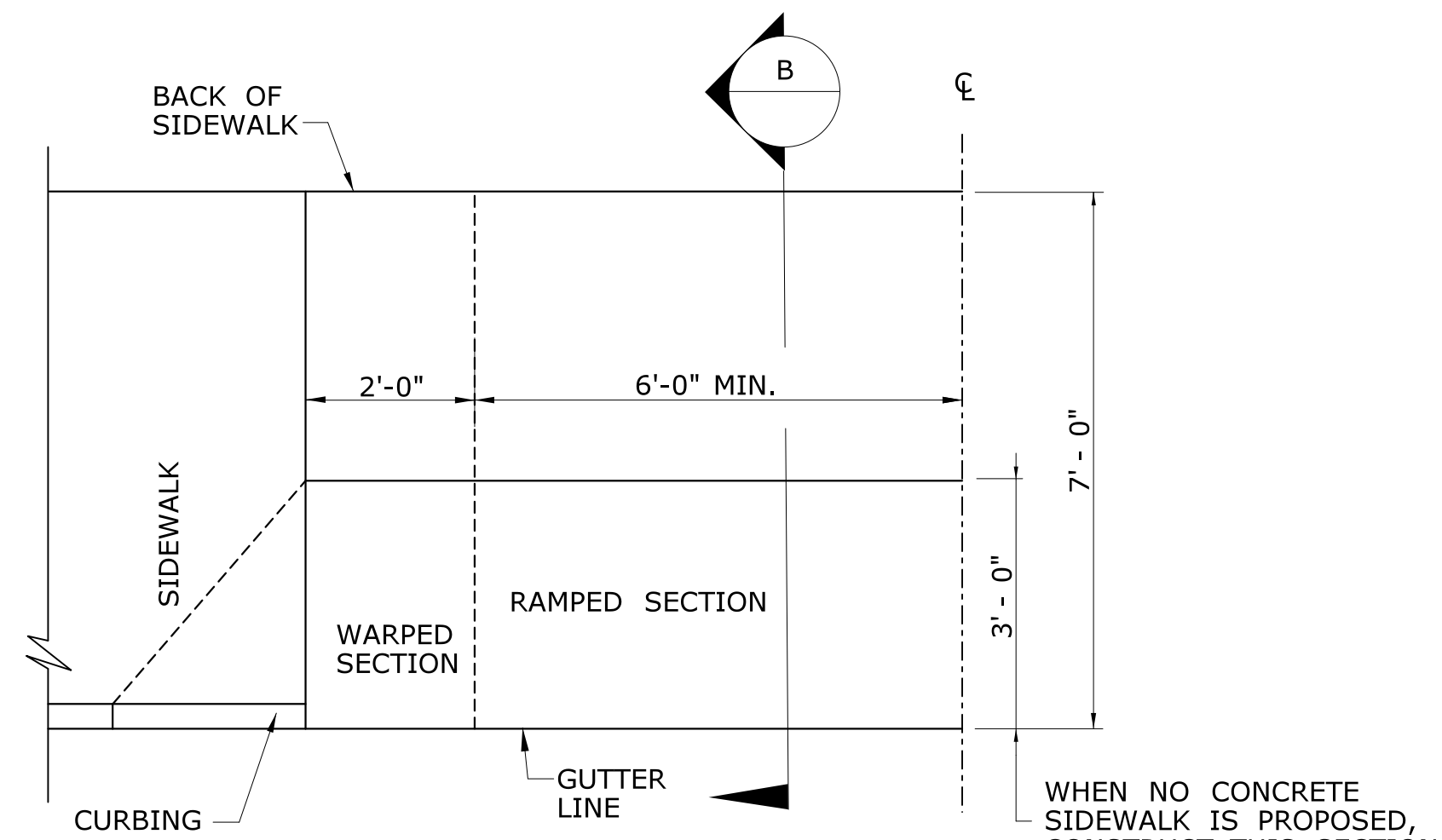
**HALF BITUMINOUS CONCRETE  
DRIVEWAY PLAN**



**SECTION B**

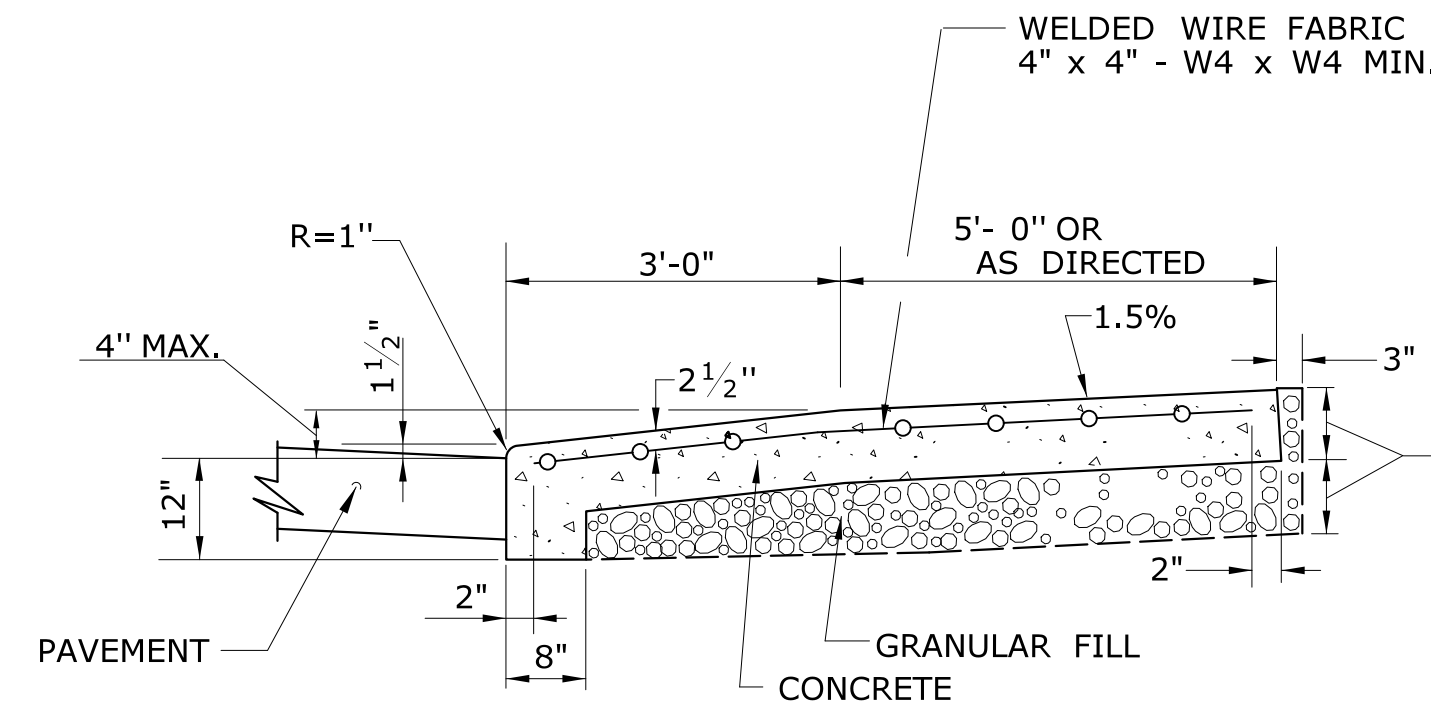


**HALF ELEVATION**

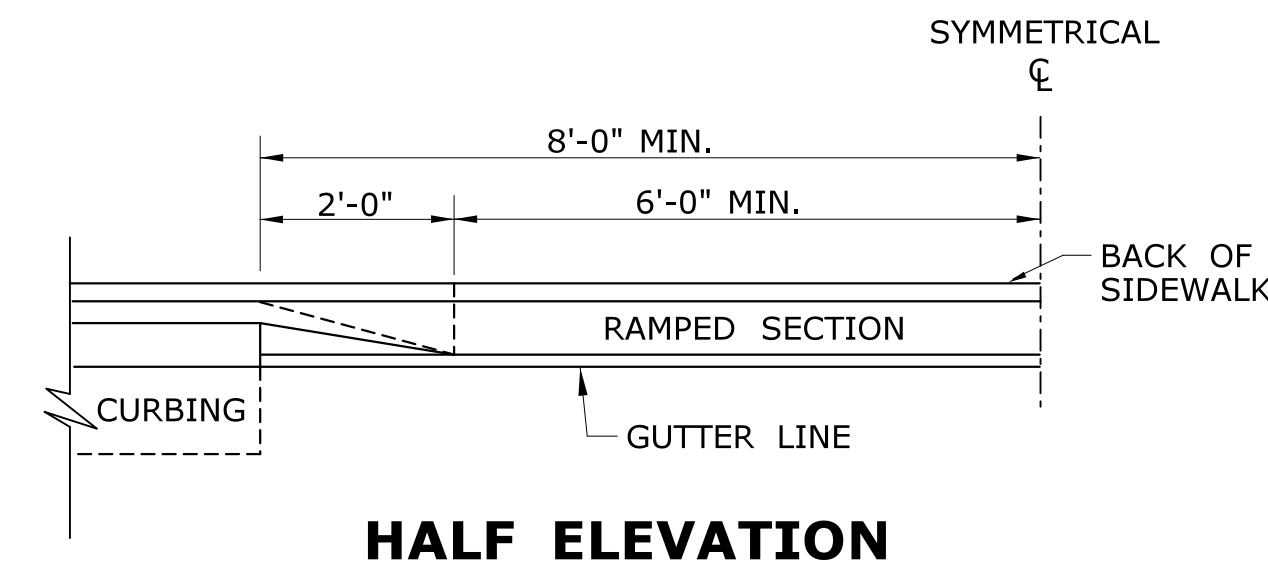


**HALF PLAN OF  
CONCRETE DRIVEWAY RAMP WHERE  
SIDEWALK ADJOINS CURBING**

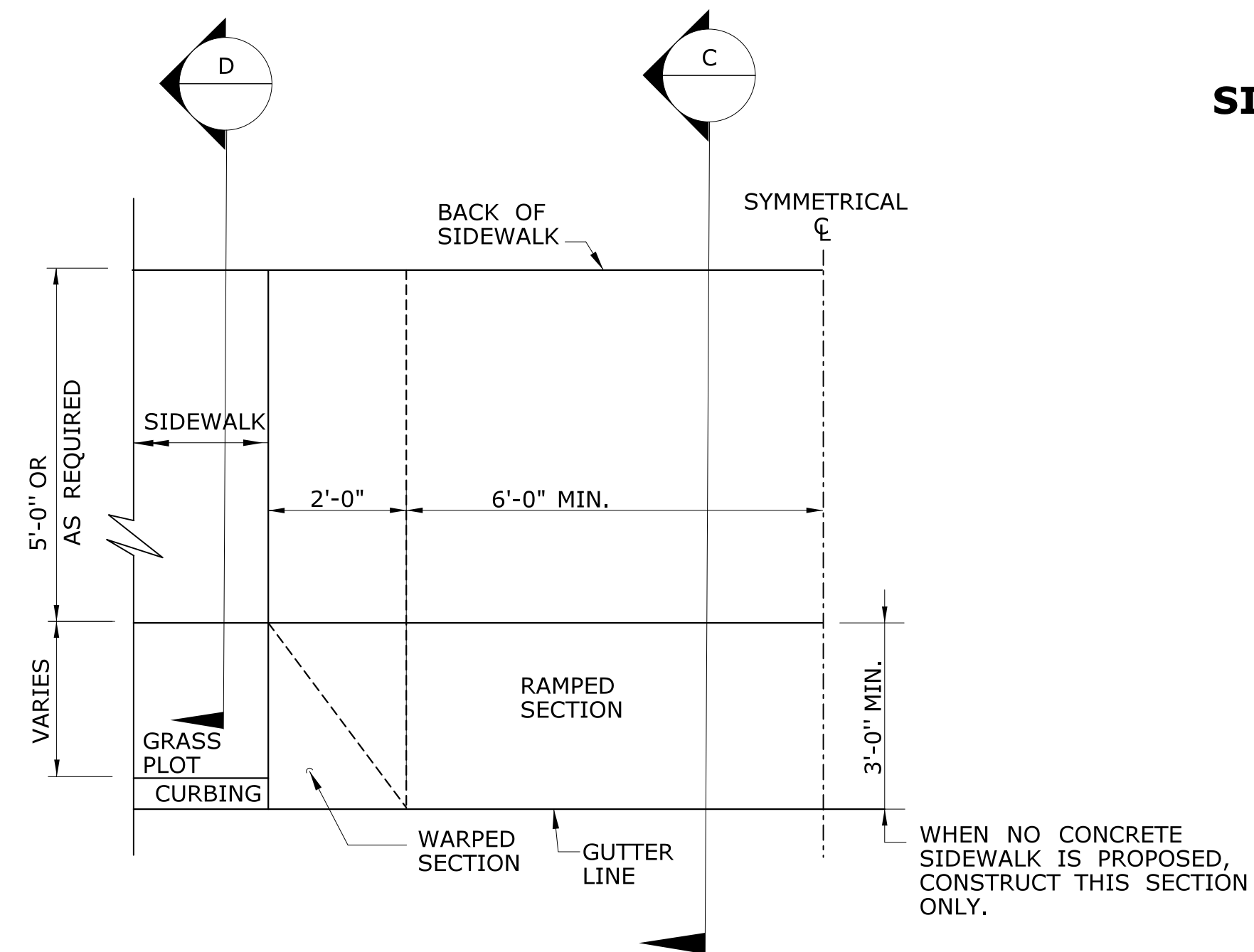
WHEN NO CONCRETE SIDEWALK IS PROPOSED, CONSTRUCT THIS SECTION ONLY.



**SECTION C**



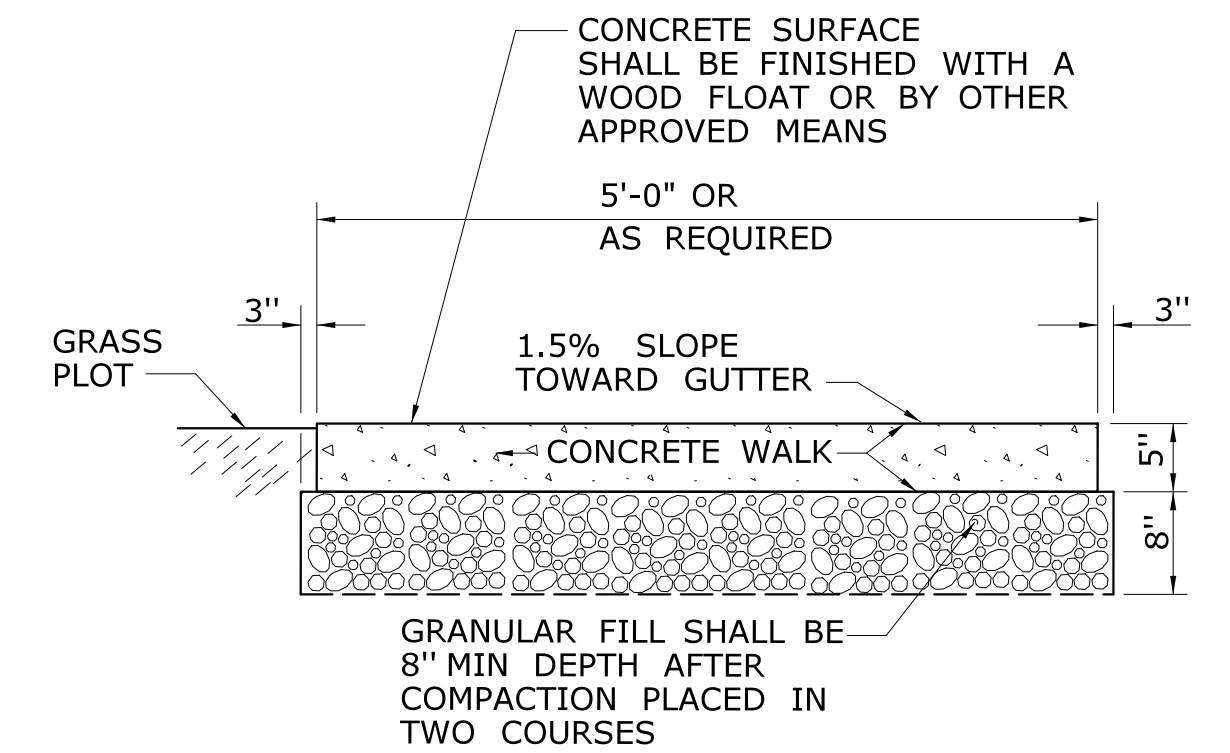
**HALF ELEVATION**



**HALF PLAN OF  
CONCRETE DRIVEWAY RAMP WHERE  
CURB IS SEPARATED FROM  
SIDEWALK BY GRASS PLOT**

WHEN NO CONCRETE SIDEWALK IS PROPOSED, CONSTRUCT THIS SECTION ONLY.

- GENERAL NOTES:**
1. DRIVEWAY ENTRANCE SHALL BE A MINIMUM OF 12' WIDE, EXCLUDING CURBING WHEN PRESENT.
  2. WELDED WIRE FABRIC MATS WITH REINFORCING AT CLOSER SPACING MAY BE USED.
  3. SURFACE HMA S0.375 TO BE PLACED IN TWO EQUAL LIFTS FOR BOTH RESIDENTIAL AND COMMERCIAL DRIVEWAYS.



**SECTION D**

**5' WIDE CONCRETE  
SIDEWALK WITH GRASS PLOT**



DOCUMENT ALL LOOP DETECTOR VALUES BOTH CALCULATED AND MEASURED.

**DEFINITIONS:**

LOOP: #14 AWG WIRE IN SAWCUT, TERMINATED IN HANDHOLE, IMSA SPEC 51-7.  
 LEAD-IN: 14/2 SHIELDED TWISTED PAIR CABLE FROM HANDHOLE TO CONTROLLER, IMSA SPEC 50-2.  
 LOOP CIRCUIT: LOOP SAWCUT WIRE SPLICED TO 14/2 LEAD-IN CABLE.  
 AMPLIFIER: ELECTRONIC DEVICE CONNECTED TO LOOP CIRCUIT. SENSES CHANGE IN RESONANT FREQUENCY AND CREATES AN OUTPUT TO THE CONTROLLER.  
 MEGOHMMETER: INSTRUMENT SPECIFICALLY DESIGNED TO TEST THE INSULATION RESISTANCE OF A CIRCUIT. COMMON MANUFACTURERS: AMEC®, AMPROBE®, FLUKE®, MEGGER®.

**1: RESISTANCE:**

1a: INSULATION RESISTANCE: PERFORM A 600 VOLT (MINIMUM) MEGOHMMETER TEST ON LOOP CIRCUIT. THE LOOP AMPLIFIER MUST BE DISCONNECTED FROM THE LOOP CIRCUIT OR THE LOOP AMPLIFIER WILL BE DAMAGED. THE RESISTANCE OF THE LOOP WIRE TO GROUND MUST BE GREATER THAN 100 MEG OHMS.

1b: WIRE RESISTANCE: MEASURE THE DC RESISTANCE OF THE LOOP CIRCUIT. THE LOOP CIRCUIT MUST BE DISCONNECTED FROM THE AMPLIFIER. USING AN OHMMETER CONNECTED ACROSS THE LOOP CIRCUIT, MEASURE THE DC RESISTANCE OF THE CONDUCTORS. THE RESISTANCE SHOULD BE LESS THAN 4 OHMS.

NOTE: ALL TESTS SHALL BE DONE AT THE CONTROLLER ASSEMBLY (CA), HOWEVER IT IS RECOMMENDED TO PERFORM A PRELIMINARY MEGOHMMETER TEST AT THE HANDHOLE PRIOR TO SEALING THE SAWCUT AND SPLICING TO THE LEAD-IN. IF A DEFECTIVE LOOP WIRE IS FOUND, IT MAY BE EASILY REPLACED.

**2: LOOP CIRCUIT INDUCTANCE:**

2a: CALCULATE INDUCTANCE OF LOOP (L<sub>LOOP</sub>) AND LEAD-IN CABLE (L<sub>14/2</sub>).

<u>LOOP INDUCTANCE (ENGLISH)</u>	<u>LOOP INDUCTANCE (METRIC)</u>
$L_{LOOP} = (P/4) (N^2 + N)$	$L_{LOOP} = (3.28P/4) (N^2 + N)$
LEAD-IN INDUCTANCE	LEAD-IN INDUCTANCE
$L_{14/2} = (0.24\mu h/FT) (D)$	$L_{14/2} = (0.78\mu h/m) (D)$

WHERE:  
 L<sub>LOOP</sub> = INDUCTANCE OF INDIVIDUAL LOOP SEGMENTS IN MICROHENRIES (μh).  
 L<sub>14/2</sub> = INDUCTANCE OF LEAD-IN CABLE.  
 P = PERIMETER OF INDIVIDUAL LOOP SEGMENT, IN FEET OR METERS.  
 N = NUMBER OF TURNS.  
 D = LENGTH OF LEAD-IN CABLE FROM SPLICE IN HANDHOLE TO CONTROLLER, IN FEET OR METERS.  
 $L_T = L_1 + L_2 + L_3$  etc.,  
 (TOTAL INDUCTANCE OF SEGMENTED LOOP SPLICED IN SERIES.)  
 $L_T = 1 / [(1/L_1) + (1/L_2) + (1/L_3) + \text{etc.}]$ ,  
 (TOTAL INDUCTANCE OF SEGMENTED LOOP SPLICED IN PARALLEL.)

WHERE:  
 L<sub>T</sub> = TOTAL INDUCTANCE OF THE SEGMENTED ARRANGEMENT.  
 L<sub>1</sub>, L<sub>2</sub>, L<sub>3</sub> = INDUCTANCE OF INDIVIDUAL LOOP SEGMENTS.

**EXAMPLE: (IN ENGLISH)**

6' x 6', 4 TURNS, APPROXIMATELY 300' FROM THE CONTROLLER

$L_{LOOP} = (24/4) (4^2 + 4)$	$L_{14/2} = (0.24\mu h/FT) (300)$
$L_{LOOP} = (6) (20)$	$L_{14/2} = (0.24) (300)$
$L_{LOOP} = 120 \mu h$	$L_{14/2} = 72 \mu h$

2b: MEASURE INDUCTANCE OF LOOP AND LEAD-IN AT CONTROLLER. USE INSTRUMENT DESIGNED TO MEASURE LOOP CIRCUIT INDUCTANCE.

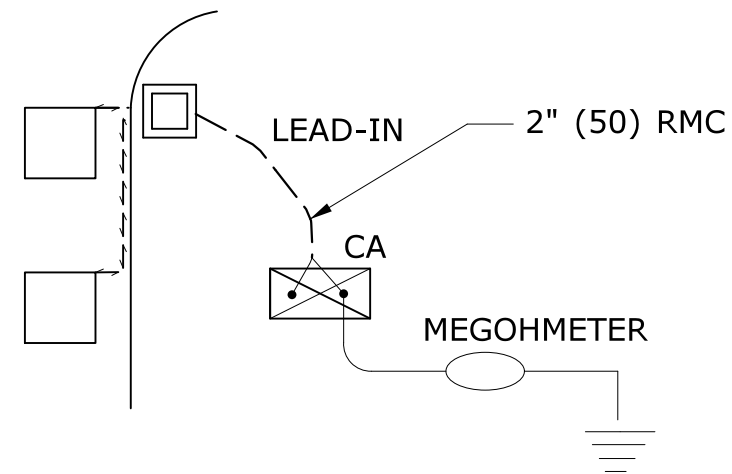
**3: POWER INTERRUPTION:**

AFTER THE AMPLIFIER HAS TUNED AND IS OPERATING, DISCONNECT POWER BY REMOVING FUSE OR HARNESS CONNECTOR. RETURN POWER TO THE AMPLIFIER AND CONFIRM IT RE-TUNES AUTOMATICALLY WITHOUT ANY MANUAL ADJUSTMENTS.

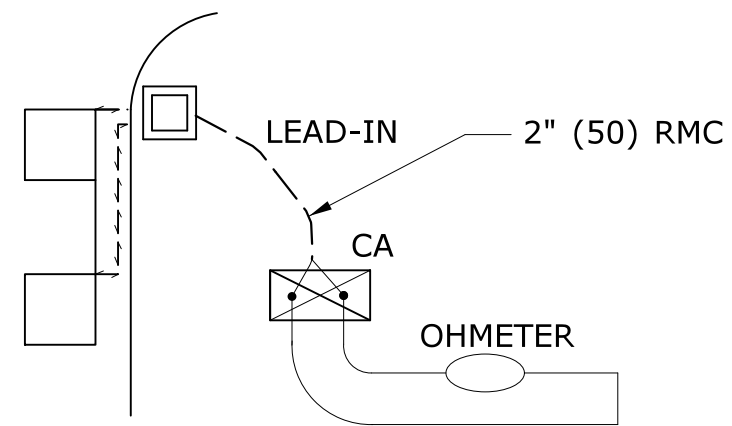
**INDUCTIVE LOOP TEST PROCEDURE**

PIN	COLOR	FUNCTION
A	WHITE	110 VAC Neutral
B	BROWN	Output Relay Common (moving contact)
C	BLACK	110 VAC (Fused)
D	RED	Loop
E	ORANGE	Loop
F	YELLOW	Output Relay Contact (Closes with moving contact when detecting vehicle)
G	BLUE	Output Relay Contact (Opens with moving contact when detecting vehicle)
H	GREEN	Chassis Ground
J	GREY	110 VAC Delay/Extend Override
Shell		Ground (shall be connected to pin H in the connector)

**DETECTOR AMPLIFIER PIN DESIGNATION**



**TEST 1a**



**TEST 1b**

LOOP NUMBER	RESISTANCE OHMS		INDUCTANCE MICROHENRIES (μh)		AMPLIFIER POWER INTERRUPTION PASS/FAIL (3)
	TO GROUND (1a)	LOOP WIRE (1b)	CALCULATED (2a)	MEASURED (2b)	
D1 FRONT					
D1 REAR					
D2A					
D2B					
D4A FRONT					
D4B REAR					
D5					
D6A					
D6B					

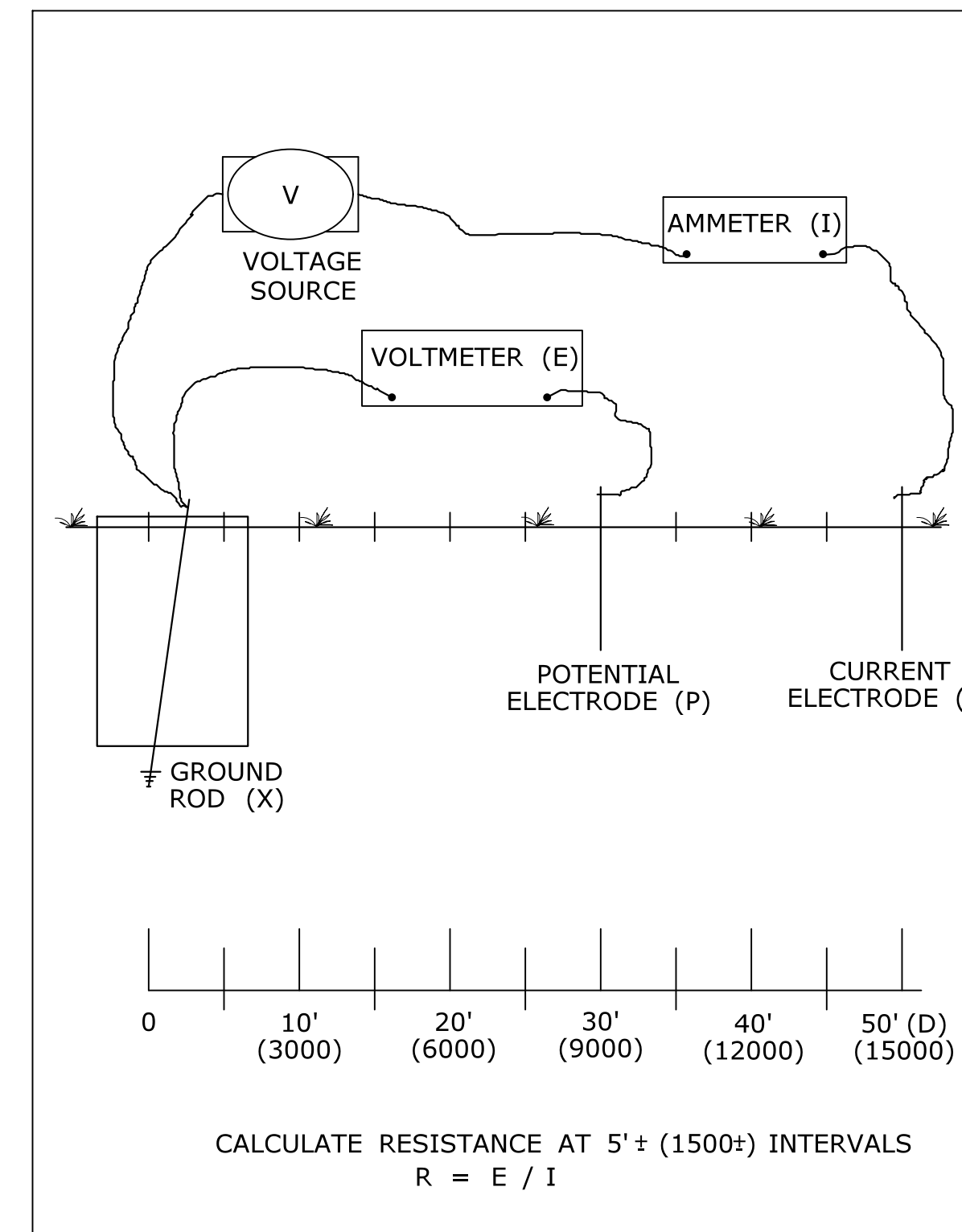
**LOOP CIRCUIT TEST DATA (EXAMPLE)**

**TEST PROCEDURE:**

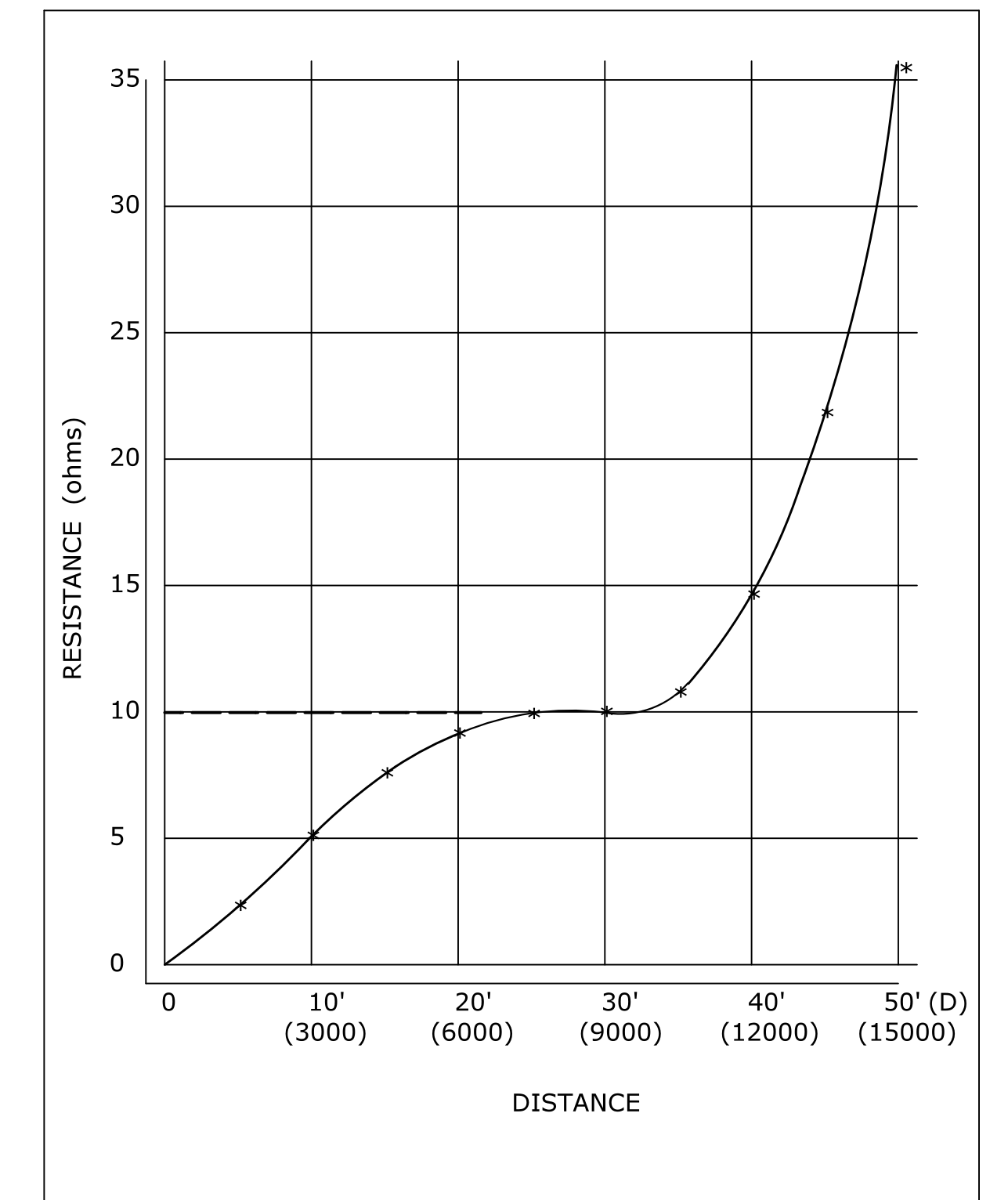
- INSERT ELECTRODE (C) A DISTANCE (D) FROM THE FOUNDATION. RECOMMEND A MINIMUM 50'.
- CONNECT A VOLTAGE SOURCE AND AMMETER BETWEEN THE FOUNDATION GROUND ROD (X) AND C.
- MEASURE THE CURRENT FLOW (I) BETWEEN X AND C.
- INSERT POTENTIAL ELECTRODE (P) AT 5' (1500) INTERVALS IN A STRAIGHT LINE TO ELECTRODE C.
- MEASURE VOLTAGE (E) AT EACH LOCATION OF P.
- CALCULATE RESISTANCE (R) AT EACH LOCATION OF P USING THE FORMULA  $R = E/I$ .
- PLOT THE VALUES ON A RxD GROUND RESISTANCE CHART.
- THE ACTUAL GROUND RESISTANCE IS WHERE THE PLOTTED CURVE IS RELATIVELY FLAT, USUALLY AT 62%± OF D.
- SEE EXAMPLE CHART: CURVE FLATTENS OUT AT 10 OHMS, APPROXIMATELY 30' (9000) FROM FOUNDATION.
- IF GROUND RESISTANCE IS GREATER THAN 10 OHMS, PERFORM CORRECTIVE ACTION AND RE-TEST.

**SUGGESTED CORRECTIVE ACTION:**

- A. INSTALL ADDITIONAL 10' (3000) GROUND ROD(S). REFER TO NESC SECTION 09, RULE 94.B.2. DRIVE ADDITIONAL GROUND RODS NO CLOSER TO FOUNDATION THAN 6' (1800). IF MORE THAN ONE IS NEEDED, SPACE MINIMUM 6' (1800) APART. BONDS TO ADDITIONAL GROUND ROD(S) SHALL BE MADE BY A CLAMP DESIGN FOR DIRECT BURIAL OR BY EXOTHERMIC WELDING TECHNIQUE. TOP OF ADDITIONAL GROUND ROD(S) SHALL BE 6" (150) BELOW GRADE.
- B. IN AREAS OF SHALLOW BEDROCK, INSTALL A GROUND GRID OR ARRAY CONSISTING OF BURIED WIRE, RODS, STRIPS OR PLATES. REFER TO NESC SECTION 09, RULE 94.B.3. REFER TO NEC SECTION 250. MINIMUM DEPTH OF 18" (450). GRID CONNECTIONS AND BONDS ON GROUND GRID SHALL BE MADE BY CLAMPS DESIGNED FOR DIRECT BURIAL OR BY EXOTHERMIC WELDING TECHNIQUE.



**3 POINT GROUND RESISTANCE TEST CIRCUIT**



**GROUND RESISTANCE CHART (EXAMPLE)**

**NOTES:**

1. WHEN REQUESTED BY THE ENGINEER, MEASURE RESISTANCE-TO-GROUND OF GROUND ROD AT TRAFFIC CONTROL FOUNDATIONS. SEE FALL-OF-POTENTIAL METHOD. IF LESS THAN 10 ohms, INSTALL SUPPLEMENTAL ELECTRODES AS REQUIRED. NEC ARTICLE 250.
2. DURING THE TEST, THE GROUND ROD SHOULD NOT BE BONDED TO ANY RMC IN THE FOUNDATION.
3. THE VOLTAGE SOURCE, VOLTMETER, AMMETER, ELECTRODES P AND C, AND CONNECTING CABLES ARE AVAILABLE AS A SPECIALIZED TEST INSTRUMENT.
4. REFER TO NATIONAL ELECTRICAL SAFETY CODE (NESC) SECTION 09, GROUNDING METHODS FOR ELECTRIC SUPPLY AND COMMUNICATIONS FACILITIES.
5. REFER TO NATIONAL ELECTRICAL CODE (NEC) CHAPTER 2, ARTICLE 250, GROUNDING.

**3 POINT FALL-OF-POTENTIAL GROUND RESISTANCE TEST**

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

- INDUCTIVE LOOP DETECTOR
- SAW CUT
- RIGID METAL CONDUIT
- HANDHOLE

REV.	DATE	REVISION DESCRIPTION
2	1-2014	REVISED GROUND RESISTANCE NOTES.
1	4-2012	MINOR REVISIONS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/7/2014

NOT TO SCALE

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

File name: CTDOT-TRAFFIC-STD.DGN Model: TR-1000\_01

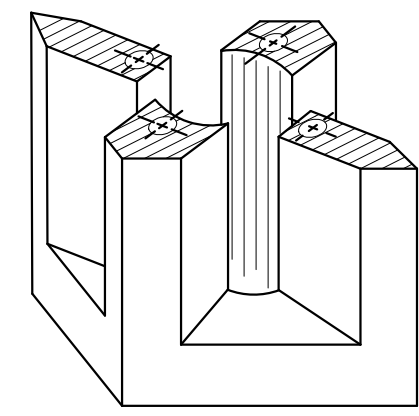
SUBMITTED BY: NAME/DATE/TIME:  
 Tracy L. Fogarty Tracy L. Fogarty 2014.01.07 16:11:26-05'00'

APPROVED BY: NAME/DATE/TIME:  
 Charles S. Harlow Charles S. Harlow 2014.01.08 09:02:11-05'00'

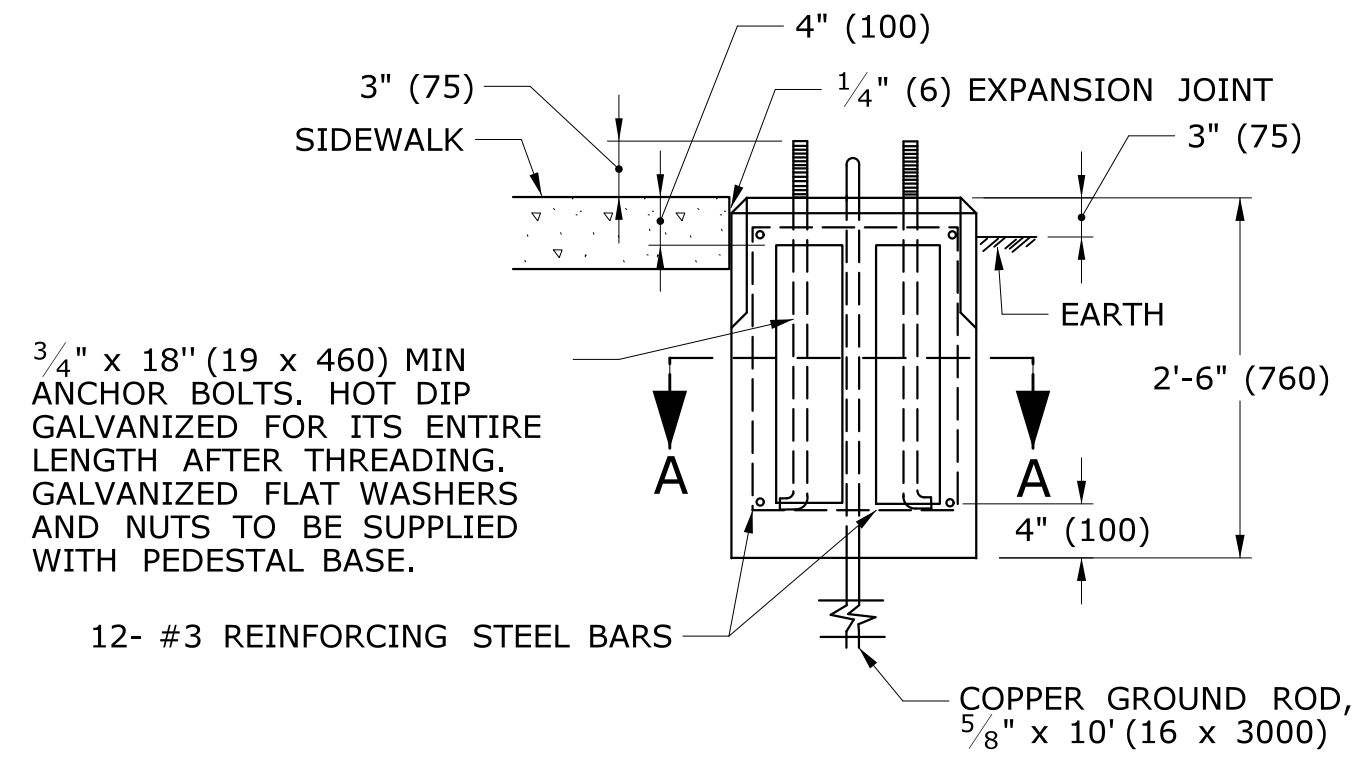
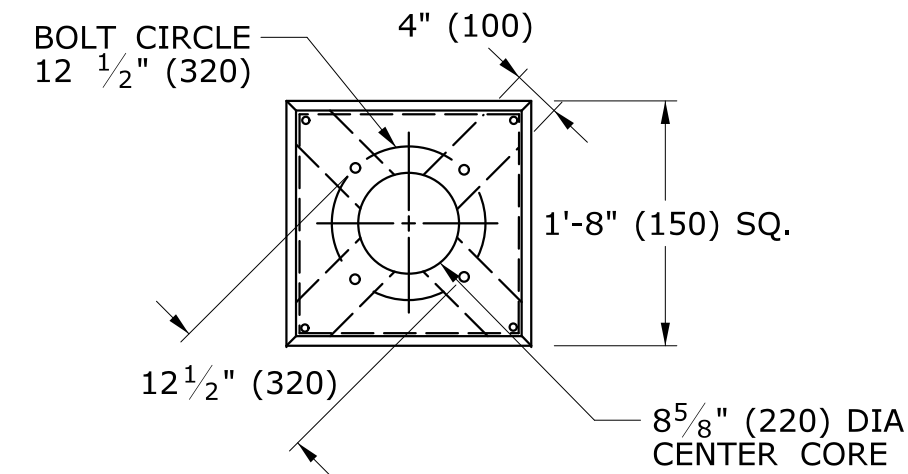
**CTDOT**  
**STANDARD SHEET**  
**OFFICE OF ENGINEERING**

STANDARD SHEET TITLE:  
**GENERAL CLAUSES**  
**(TEST PROCEDURES)**

STANDARD SHEET NO.:  
**TR-1000\_01**



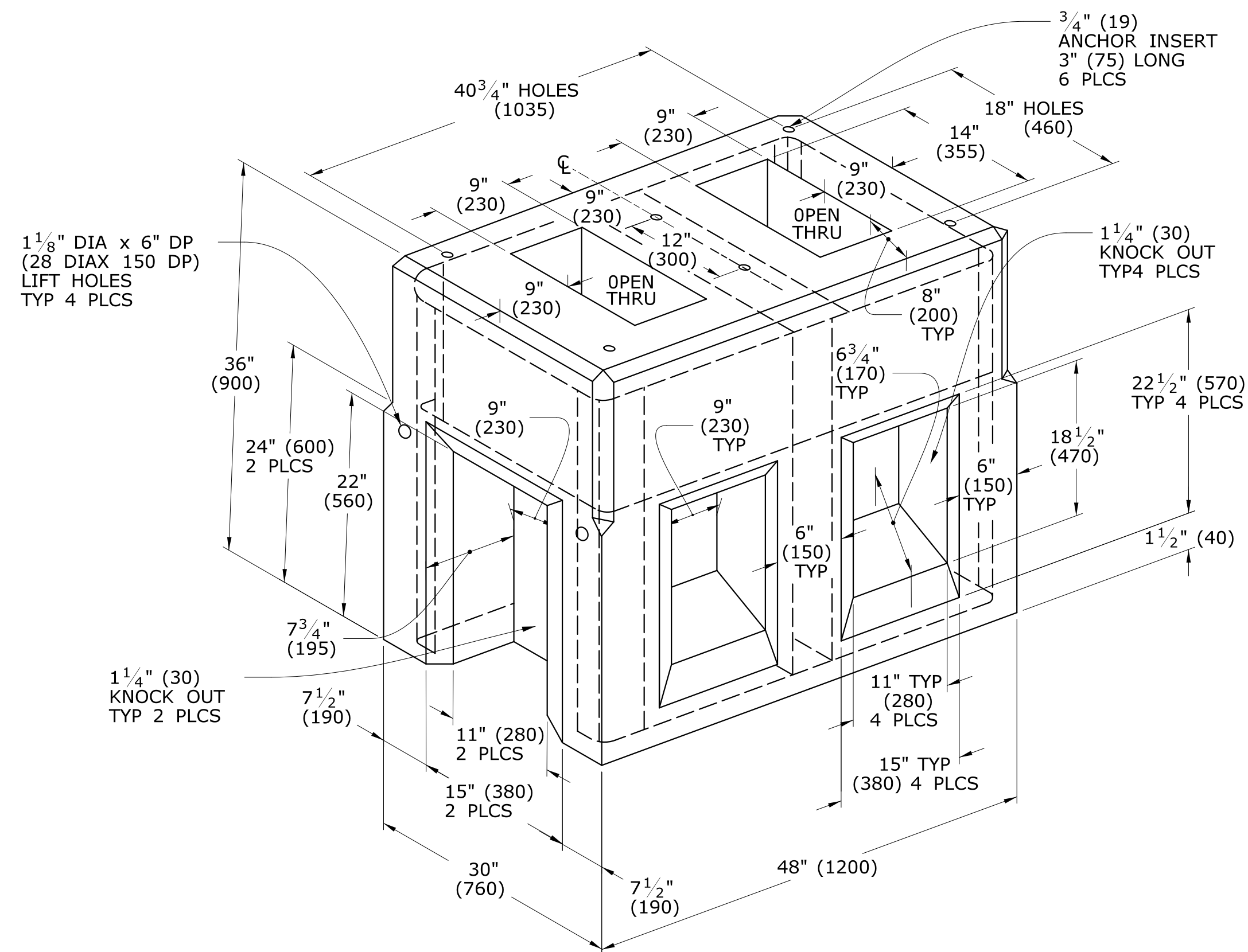
**PICTORIAL SECTION A-A**



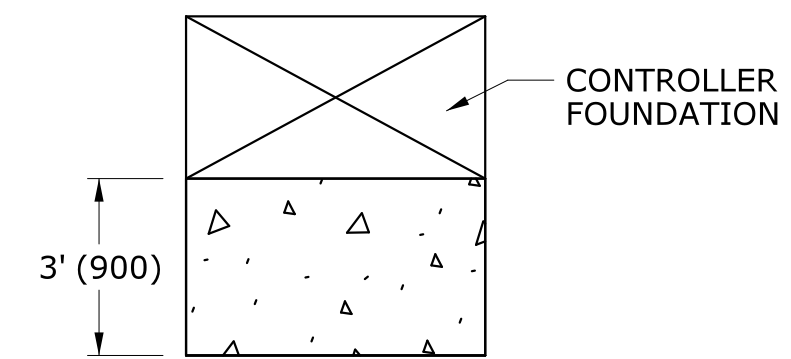
**TRAFFIC CONTROL FOUNDATION PEDESTAL - TYPE I - PRECAST**

NOTES:

PLACE NO. 6 CRUSHED STONE IN CENTER OPENING AFTER CONDUITS AND GROUND ROD HAVE BEEN INSTALLED.

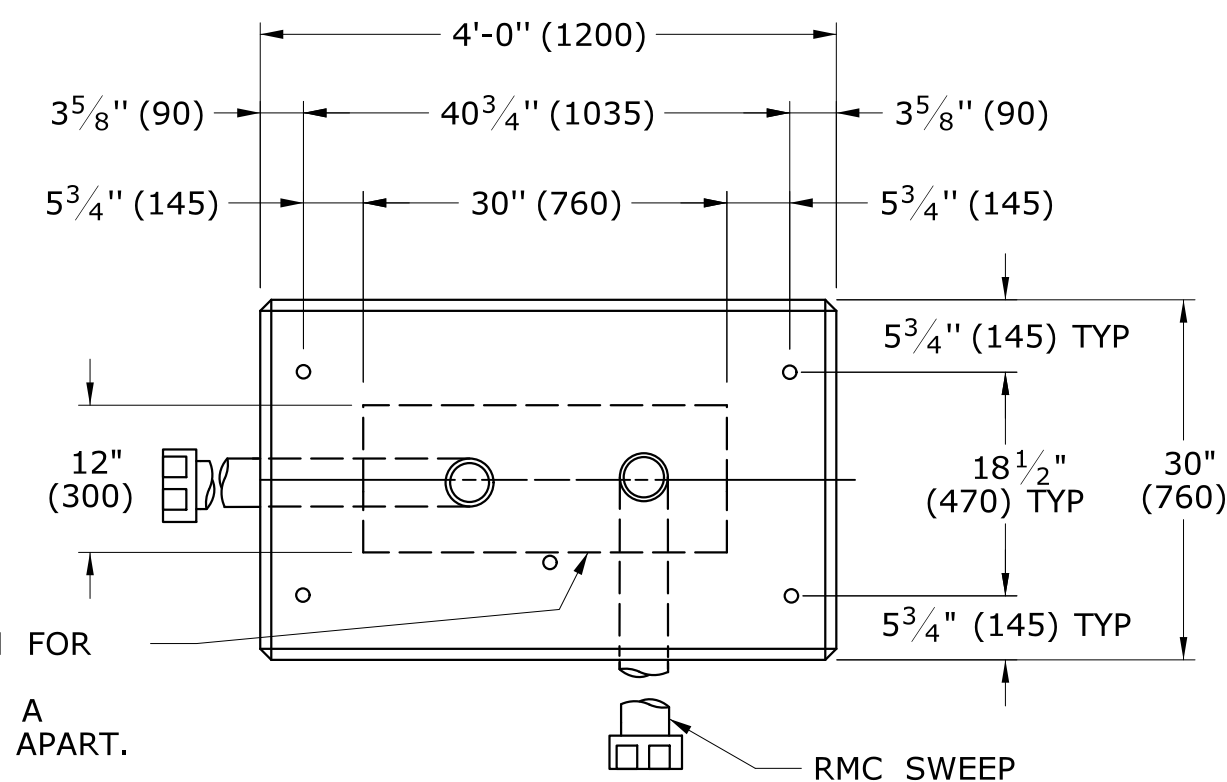


**TRAFFIC CONTROL FOUNDATION CONTROLLER - TYPE IV - PRECAST**

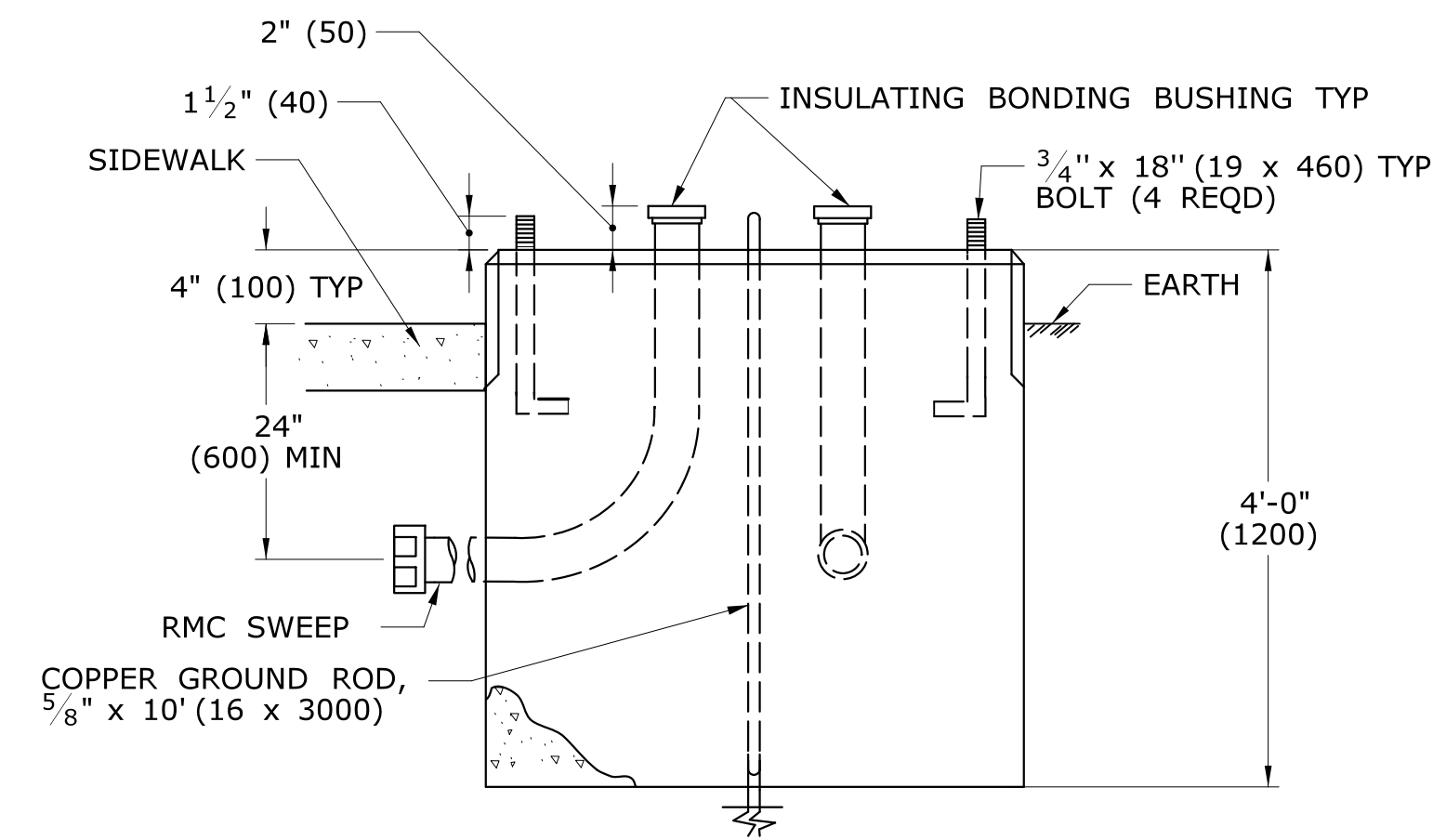


INSTALL PRECAST OR CAST IN PLACE CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION.  
PITCH SIDEWALK 1/4\"/>

**TYPICAL CONCRETE SIDEWALK AT CONTROLLER FOUNDATION**



AREA OF LIMITATION FOR CONDUIT SWEEPS. SEPARATE CONDUITS A MINIMUM OF 2\"/>



**TRAFFIC CONTROL FOUNDATION CONTROLLER - TYPE IV - CAST IN PLACE**

NOTES:

INSTALL FOUNDATION ON 6\"/>

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:	
	PROPOSED CONTROLLER
	EXISTING CONTROLLER
	PROPOSED STEEL SPAN POLE
	EXISTING STEEL SPAN POLE

REV.	DATE	REVISION DESCRIPTION
2	1-2014	REMOVED SPAN POLE FOUNDATION DETAILS, REVISED TYPICAL CONCRETE SIDEWALK AT CONTROLLER FOUNDATION.
1	4-2012	MINOR REVISIONS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/7/2014

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm. - UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

FILENAME: CTDOT-TRAFFIC-STD.DGN Model: TR-1002\_01

SUBMITTED BY: NAME/DATE/TIME:  
*Tracy L. Fogarty* Tracy L. Fogarty 2014.01.07 16:12:06-05'00'

APPROVED BY: NAME/DATE/TIME:  
*Charles S. Harlow* Charles S. Harlow 2014.01.08 09:02:54-05'00'

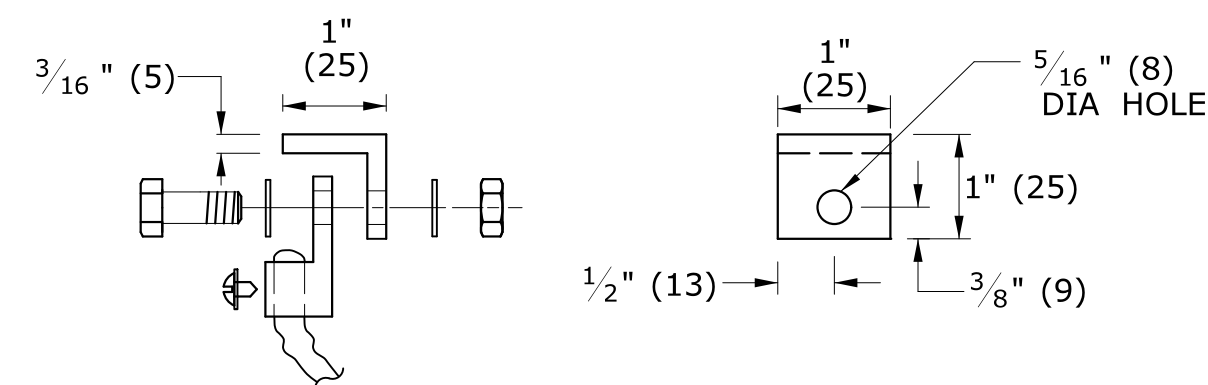
CTDOT  
STANDARD SHEET  
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:  
**TRAFFIC CONTROL FOUNDATIONS**

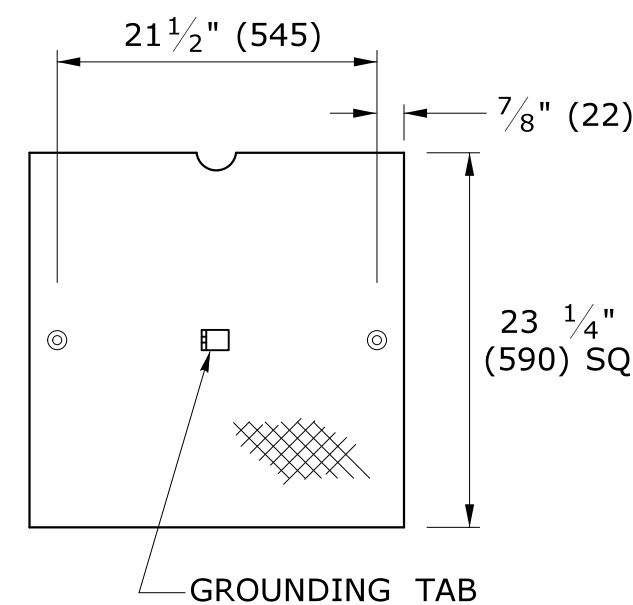
STANDARD SHEET NO.:  
**TR-1002\_01**

**COVER NOTES:**

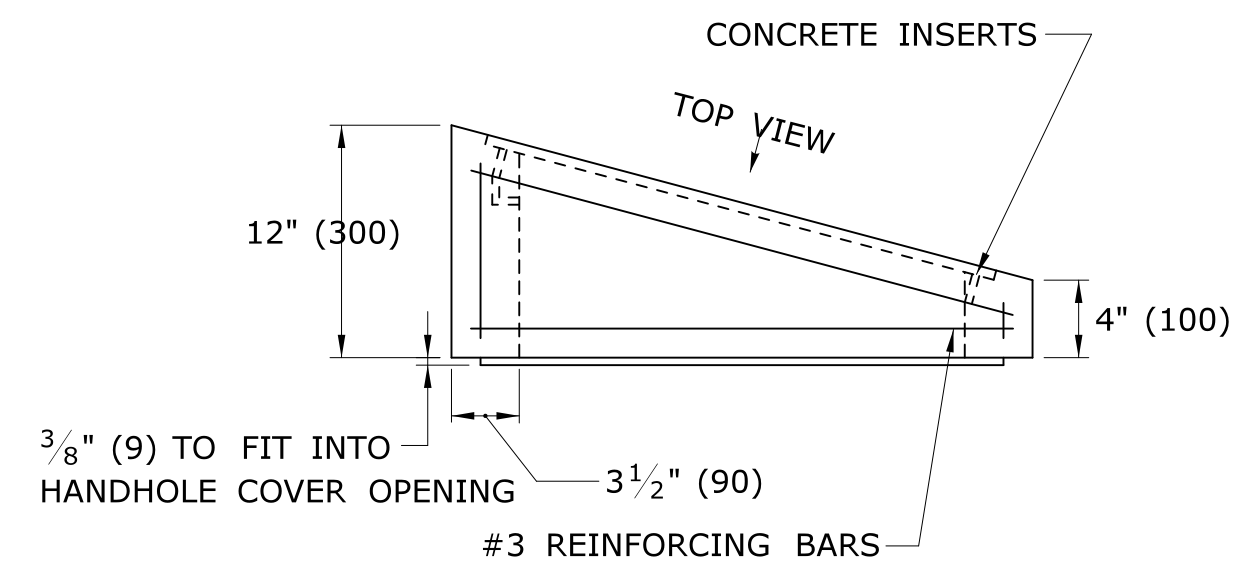
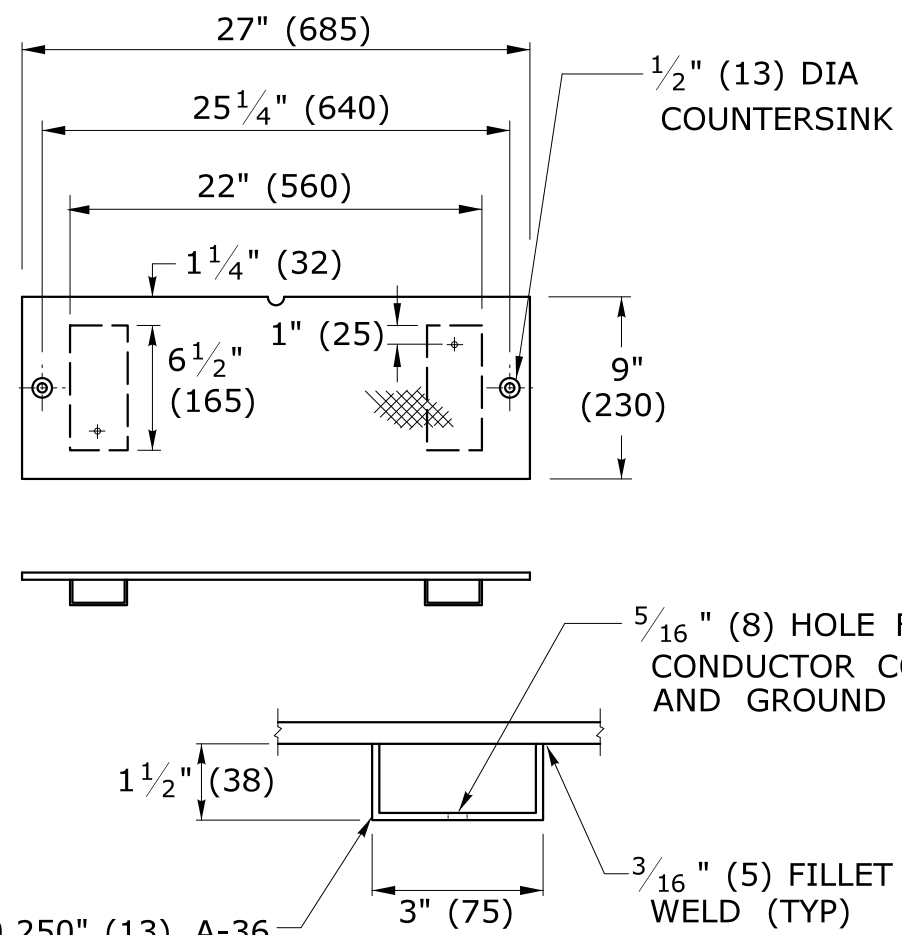
1. GROUNDING TAB WELDED TO BOTTOM CENTER OF COVER WITH  $\frac{3}{16}$ " (5) WELD (3 SIDES).
2. ATTACH 6' (2 m) LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH CONDUCTOR CONNECTOR,  $\frac{1}{4}$ " - 20 X  $\frac{3}{4}$ " (M6 X 20) LG SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO CONDUIT BONDING BUSHING IN HANDHOLE.
3. CONDUCTOR CONNECTOR: COPPER ALLOY BODY, BRASS SCREW, BRASS OR COPPER ALLOY PRESSURE PLATE.
4. COVER SCREW INSERT:  $\frac{3}{8}$ "-16 (9-16),  $1\frac{1}{2}$ "L (37L), STAINLESS STEEL.
5. COVER SCREW:  $\frac{3}{8}$ "-16 (9-16), 1"L (25L), FLAT HEAD, SLOTTED, STAINLESS STEEL.



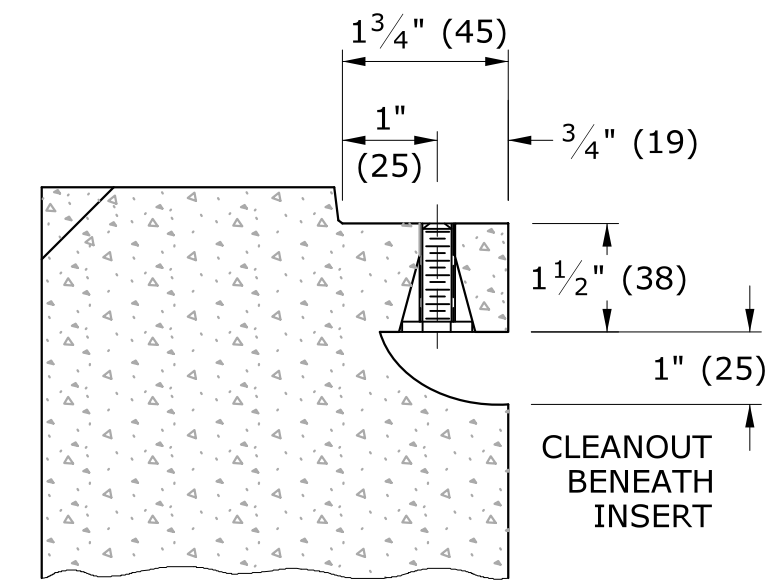
**STEEL GROUNDING TAB  
w/ CONDUCTOR CONNECTOR**



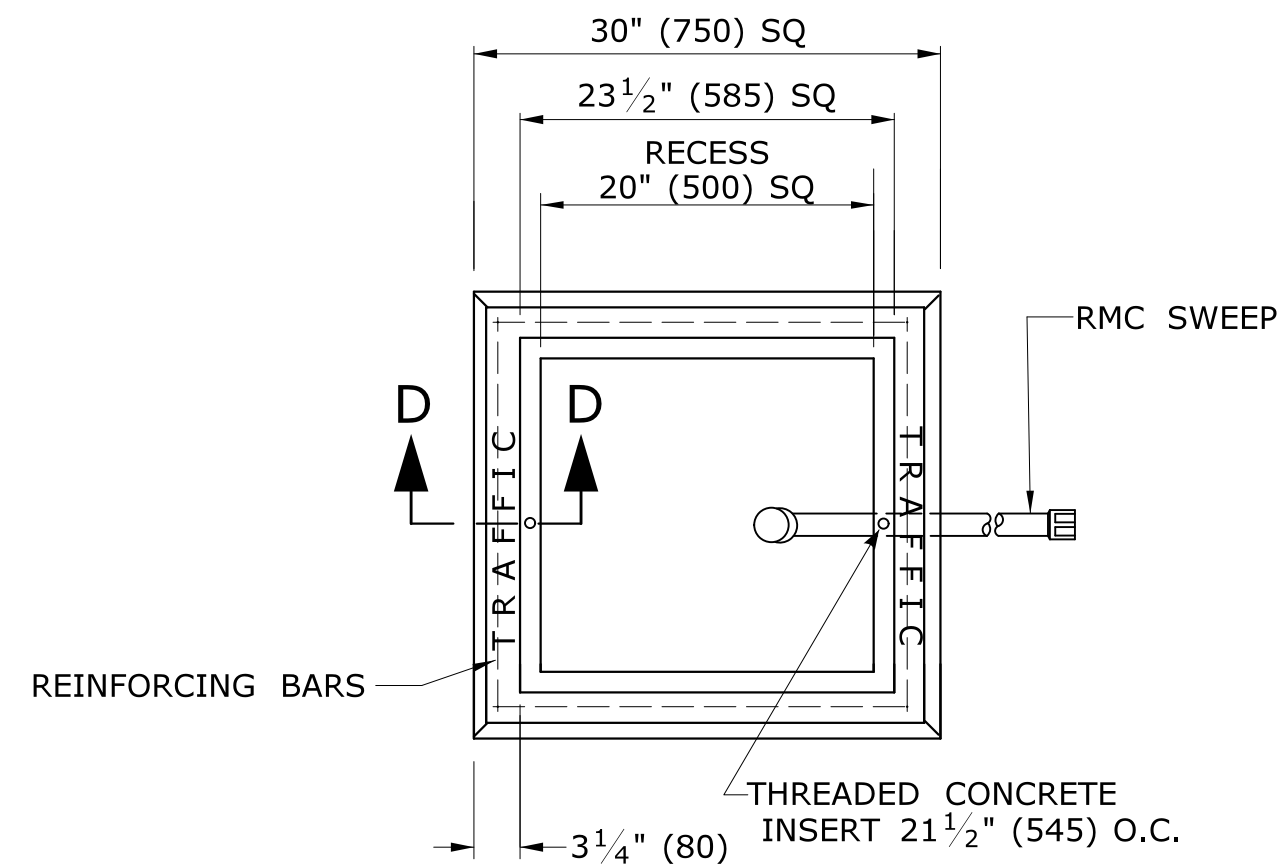
**NON SKID FLOOR PLATE  
GALVANIZED STEEL, 3/8" (10)**



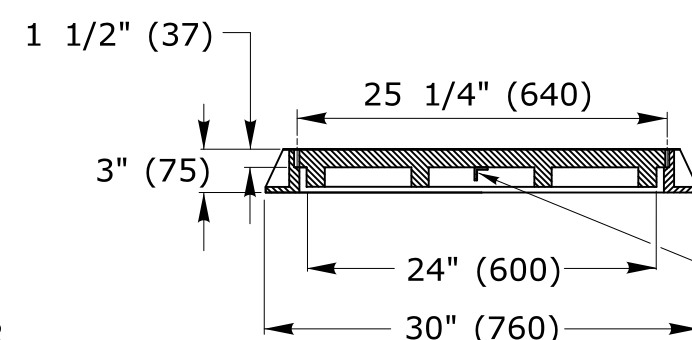
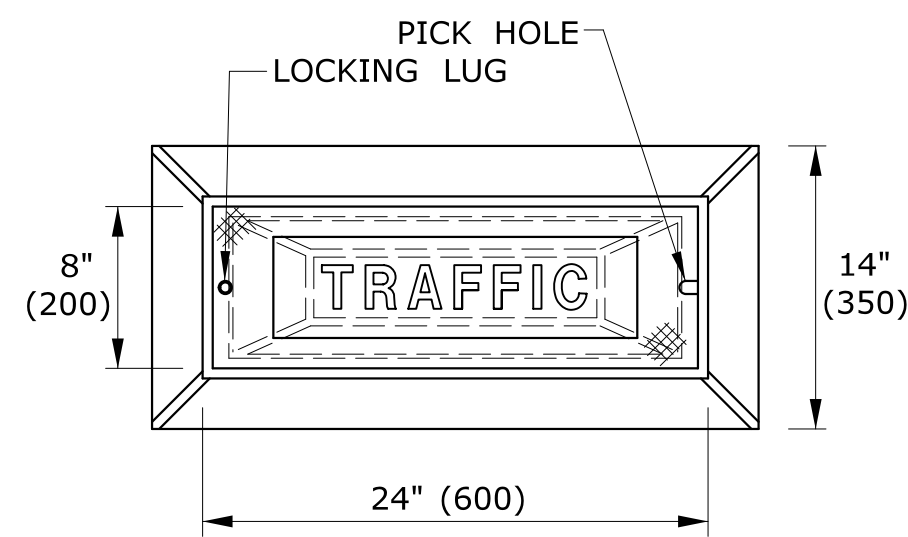
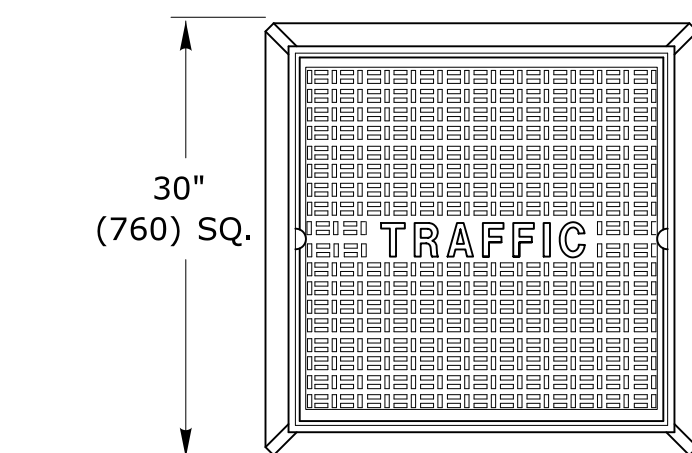
**BANK ADAPTER**



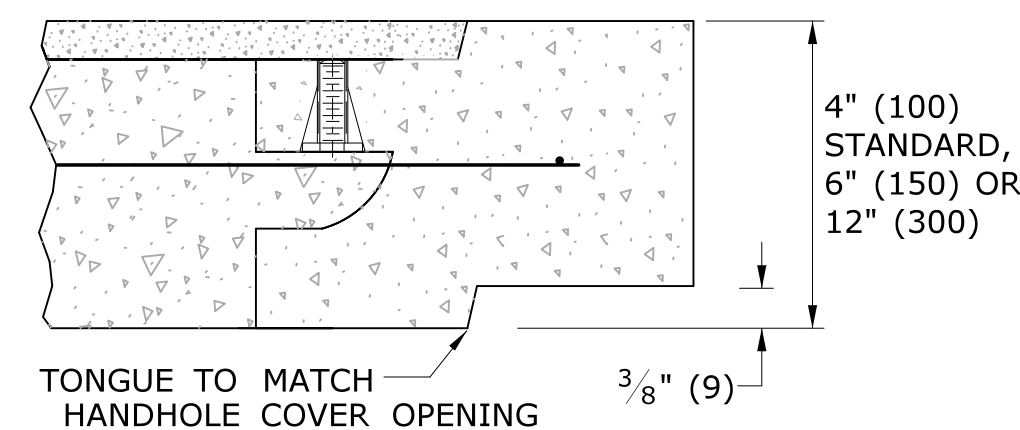
**SECTION D-D**



**PLAN VIEW**

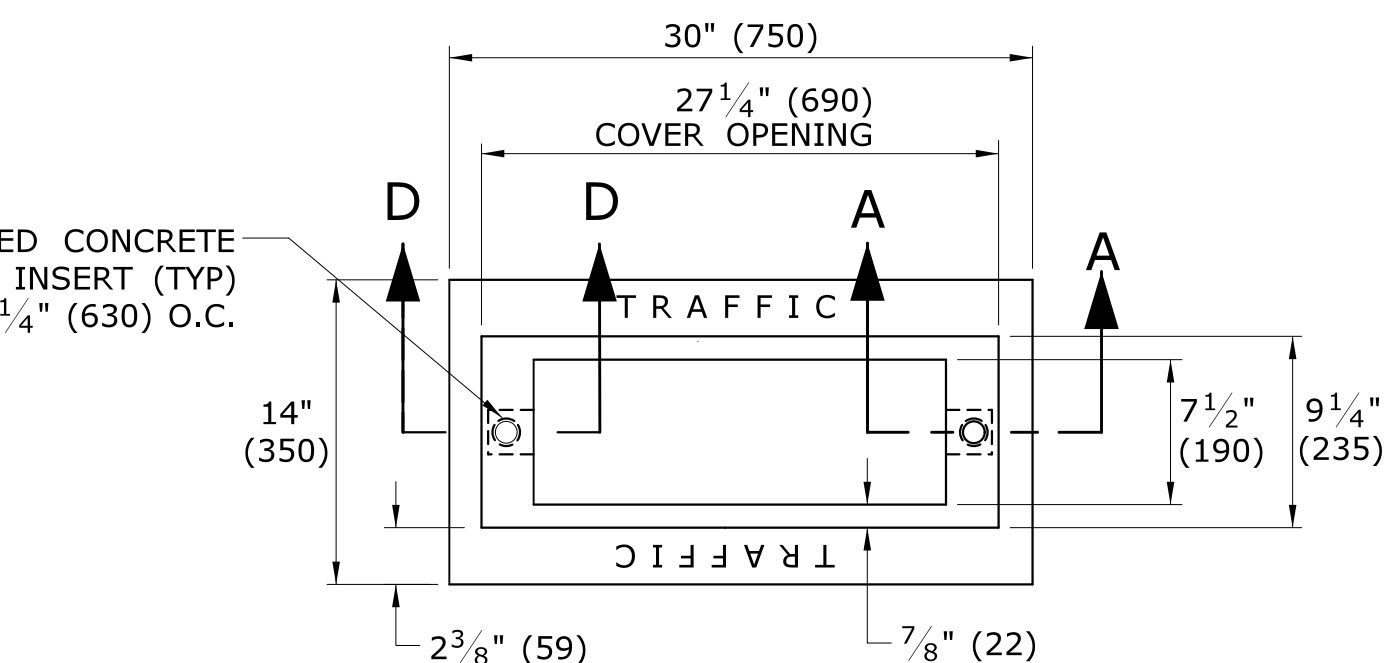


**CAST IRON  
HANDHOLE COVERS**

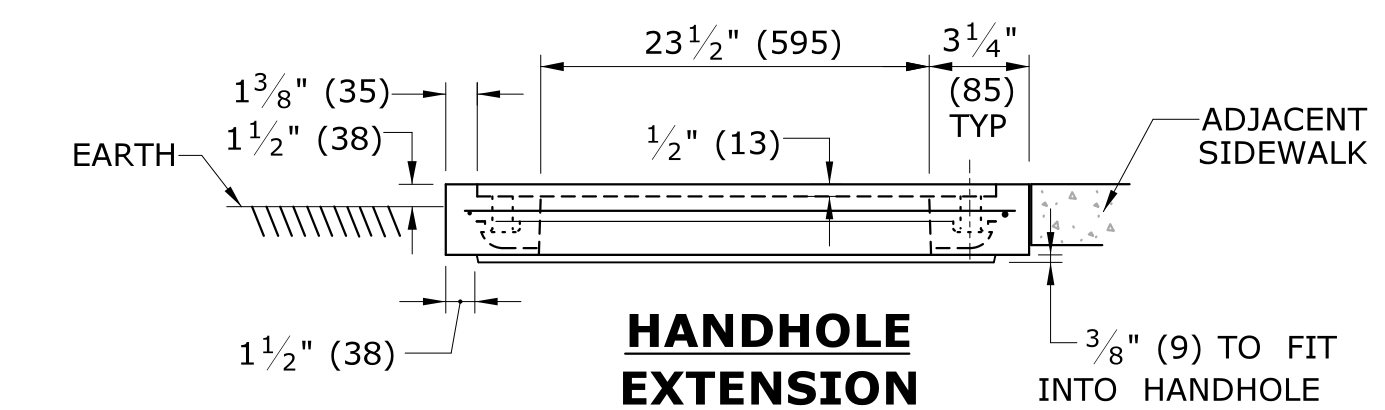


**SECTION A-A  
HANDHOLE EXTENSIONS**

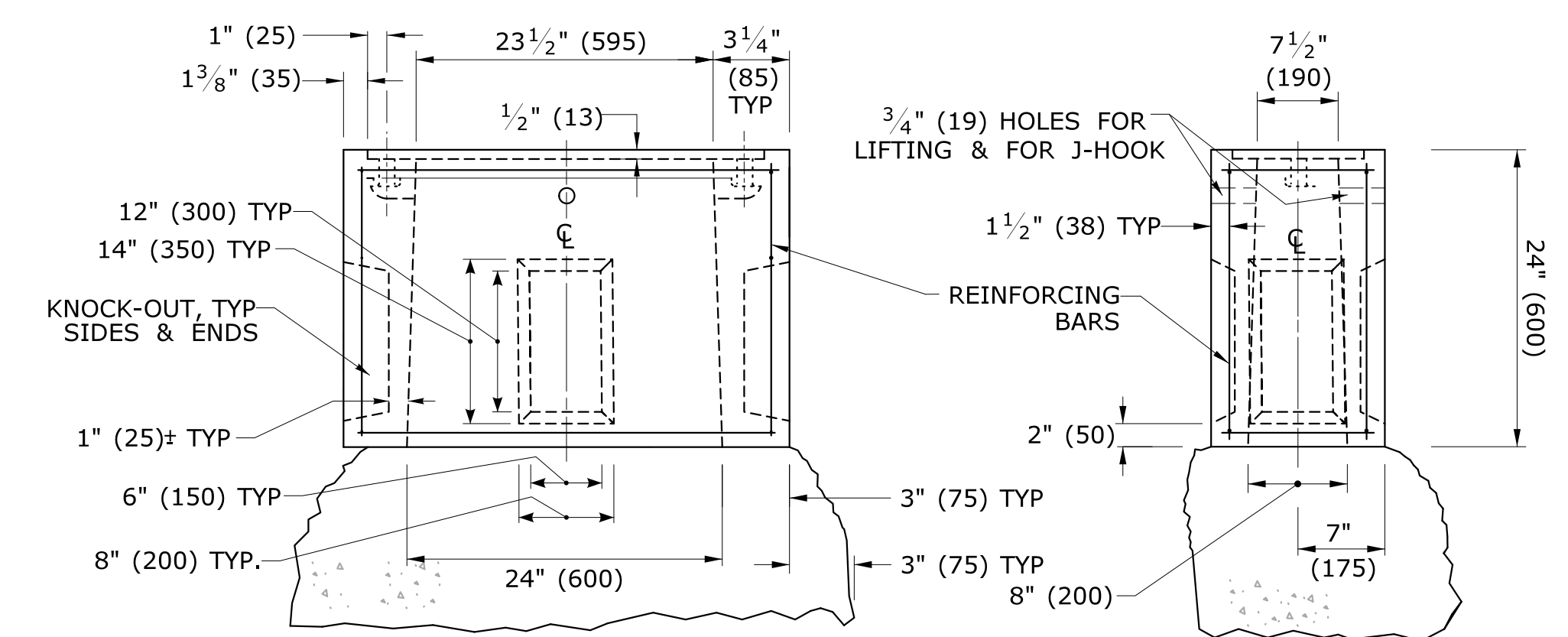
4 - #8 REINFORCING BARS REQ'D



**PLAN VIEW**



**HANDHOLE  
EXTENSION**



**BASE SECTION  
CONCRETE HANDHOLE TYPE II**

**HANDHOLE NOTES:**

1. MINIMUM CLASS "C" CONCRETE.
2. COMPLETE TYPE II HANDHOLE:  
IN EARTH AREAS, CONSISTS OF A BASE SECTION WITH 4" (100) HANDHOLE EXTENSION,  
IN SIDEWALK AREAS, CONSISTS OF A BASE SECTION WITH 4" (100) CAST IRON COVER.
3. PLAN VIEW DIMENSIONS, SECTION VIEW, & DETAILS, SAME FOR BASE SECTION, EXTENSIONS & BANK ADAPTER.
4. GROUT AROUND ALL CONDUITS.

5. INSTALL 30" (750) SIDE PARALLEL TO ROAD UNLESS OTHERWISE NOTED.
6. INSTALL HANDHOLES APPROX. 12" (300) BEHIND CURB OR  
IF NO CURB, 24" (600) BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.
7. CAST THE WORD "TRAFFIC" INTO TOP EDGE OF HANDHOLE, 1 1/2" (38) LETTERS.
8. WHERE AN EXISTING CONCRETE SIDEWALK SLAB ABUTTING A HANDHOLE IS DAMAGED OR CUT DURING INSTALLATION, REPLACE THE ENTIRE SIDEWALK SECTION.
9. 12-#3 REINFORCING BARS REQUIRED FOR ALL HANDHOLES. (8 HORIZONTAL, 4 VERTICAL)

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

- PROPOSED HANDHOLE
- EXISTING HANDHOLE

REV.	DATE	REVISION DESCRIPTION
2	4-2014	REVISED HANDHOLES NOTES, ADDED NOTE #6. ADDED "J" HOOK TO INSERT DETAIL.
1	4-2012	CAST IRON COVER: CHANGED BOLT TO PICK HOLE. ADDED EXTENSIONS, C-CHANNEL, CONDUCTOR CONNECTOR & MINOR REVISIONS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 4/11/2014

DIMENSIONS ARE IN ENGLISH ("') & METRIC UNITS (mm).  
METRIC DIMENSIONS ARE ROUNDED:  
- OVER 1" TO NEAREST 5 mm.  
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

FILENAME: CTDOT-TRAFFIC-STD.DGN Model: TR-1010\_01

SUBMITTED BY: NAME/DATE/TIME:  
Tracy L. Fogarty Tracy L. Fogarty, P.E. 2014.04.25 16:01:09-04'00'

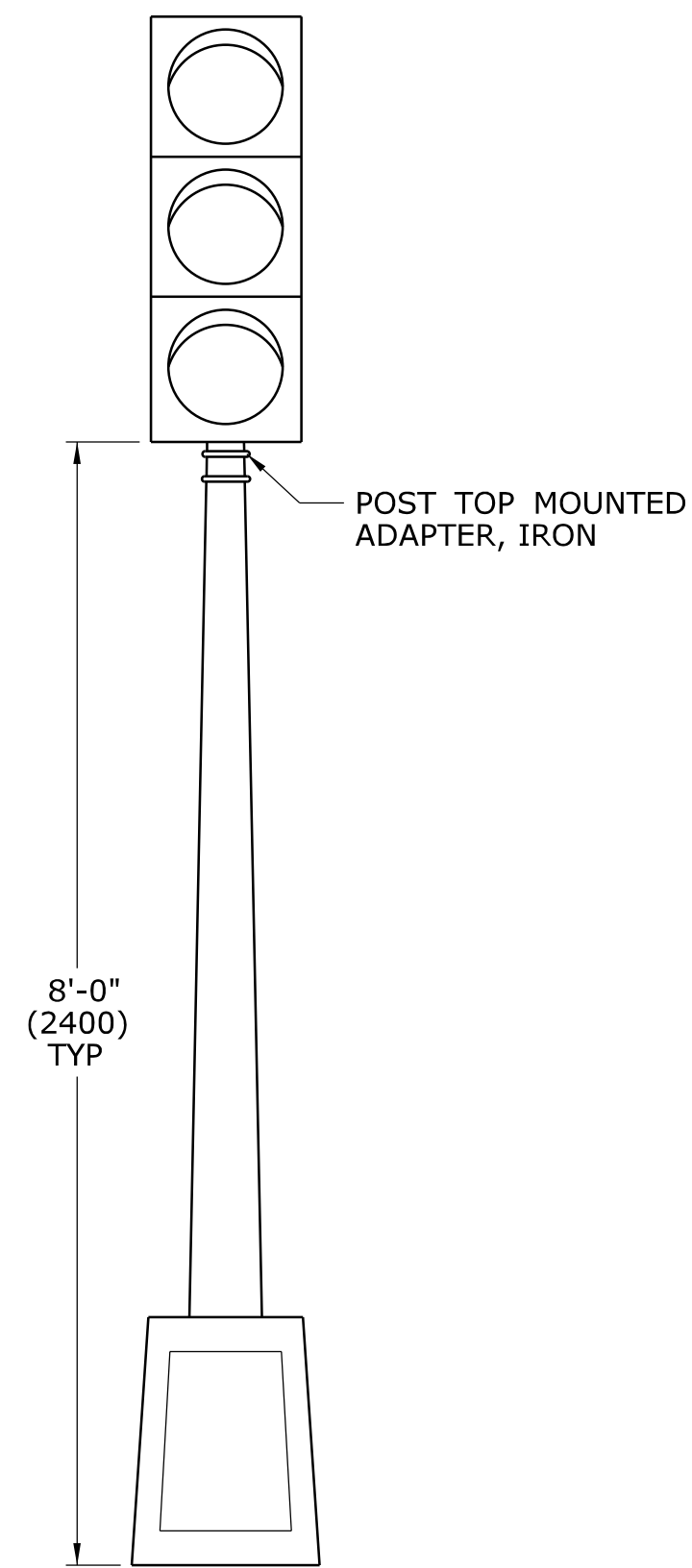
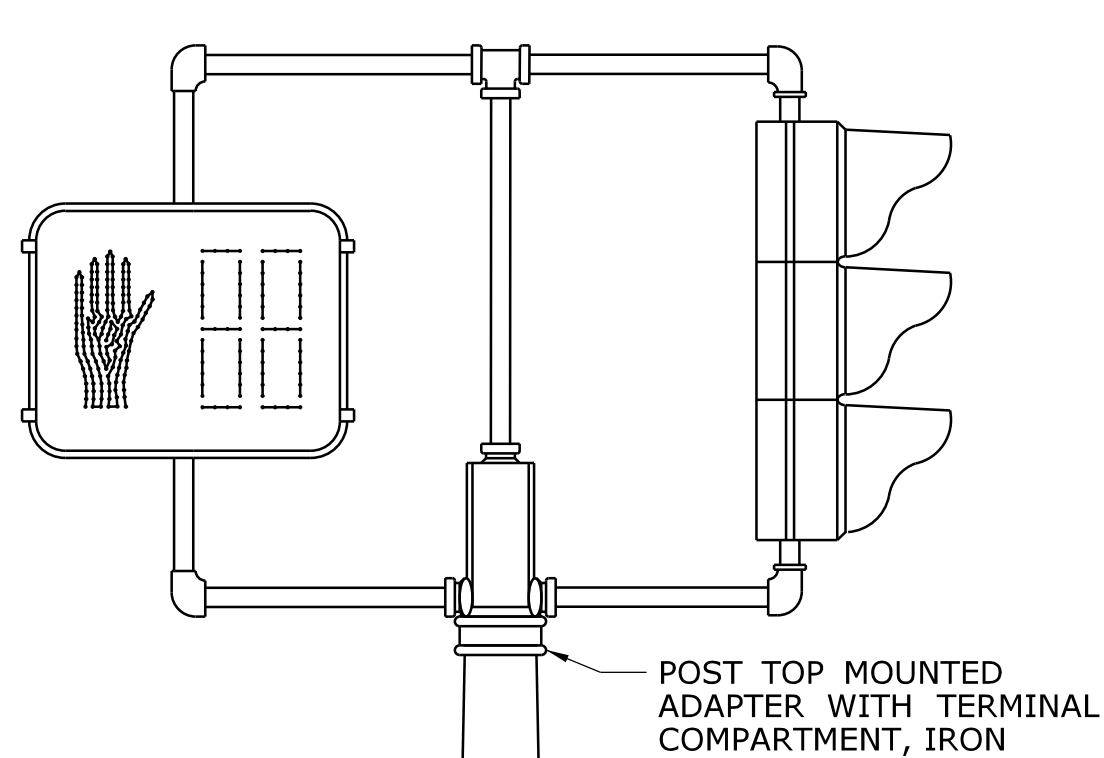
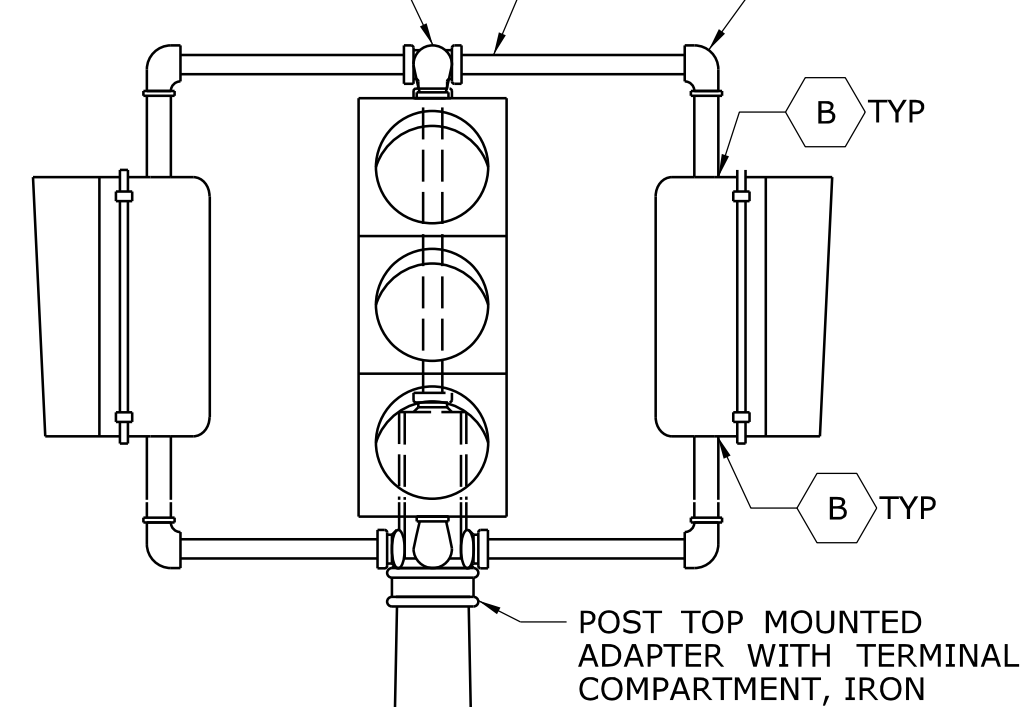
APPROVED BY: NAME/DATE/TIME:  
Charles S. Harlow Digitally signed by Charles S. Harlow, P.E. Date: 2014.04.29 14:26:25-04'00'

CTDOT  
STANDARD SHEET  
OFFICE OF ENGINEERING

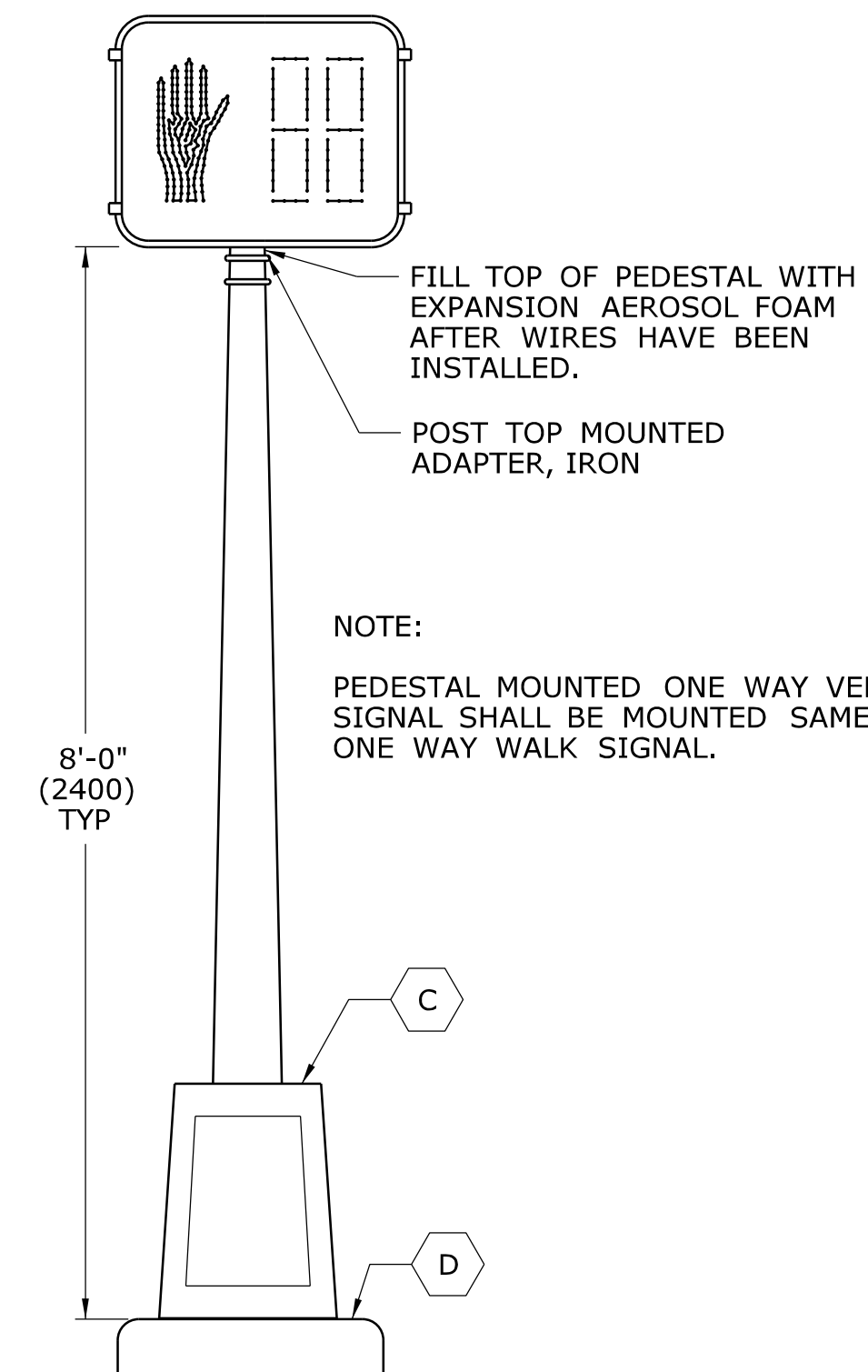
STANDARD SHEET TITLE:  
**CONCRETE HANDHOLE**

STANDARD SHEET NO.:  
**TR-1010\_01**

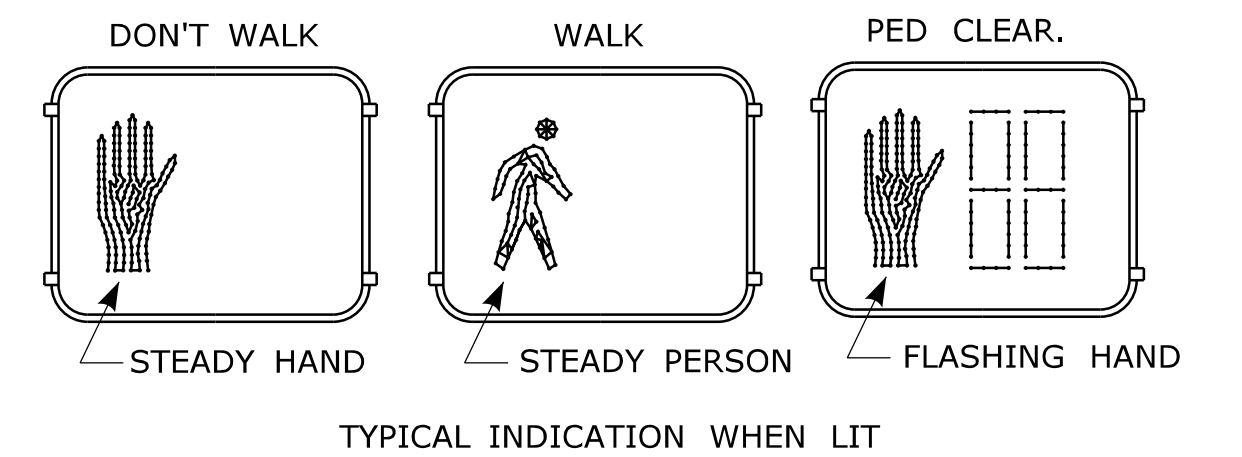
1 1/2" (38) SSIDE OUTLET TEE, IRON, TYP  
1 1/2" (38) NIPPLE, STEEL, TYP



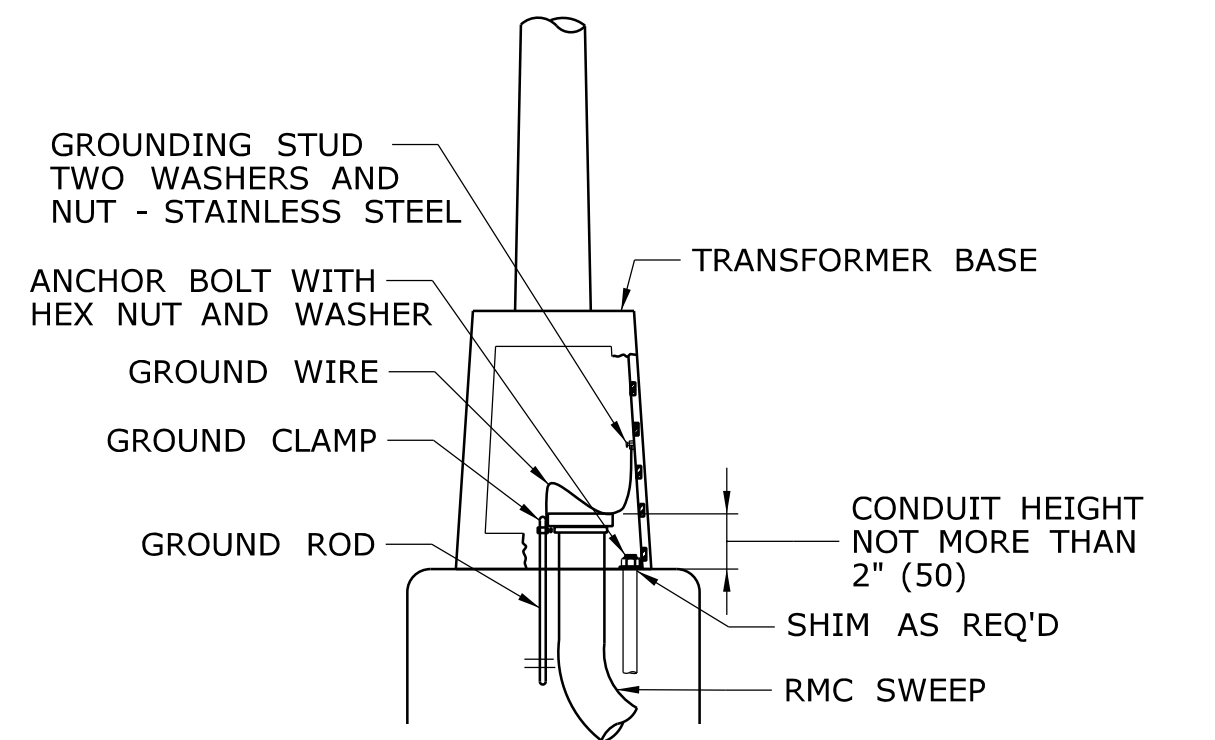
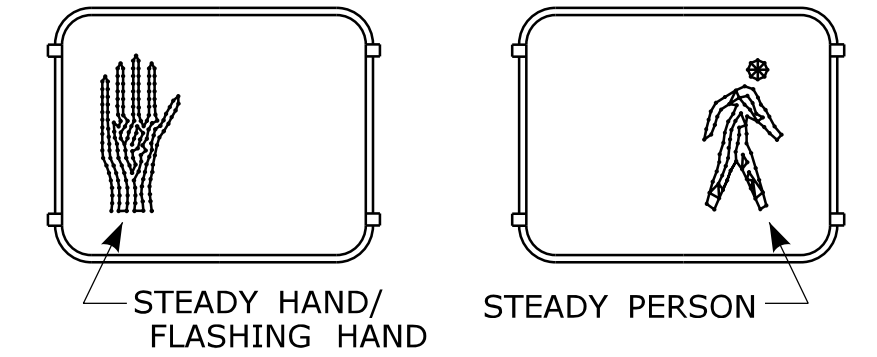
**ONE WAY TRAFFIC SIGNAL PEDESTAL MOUNTED**



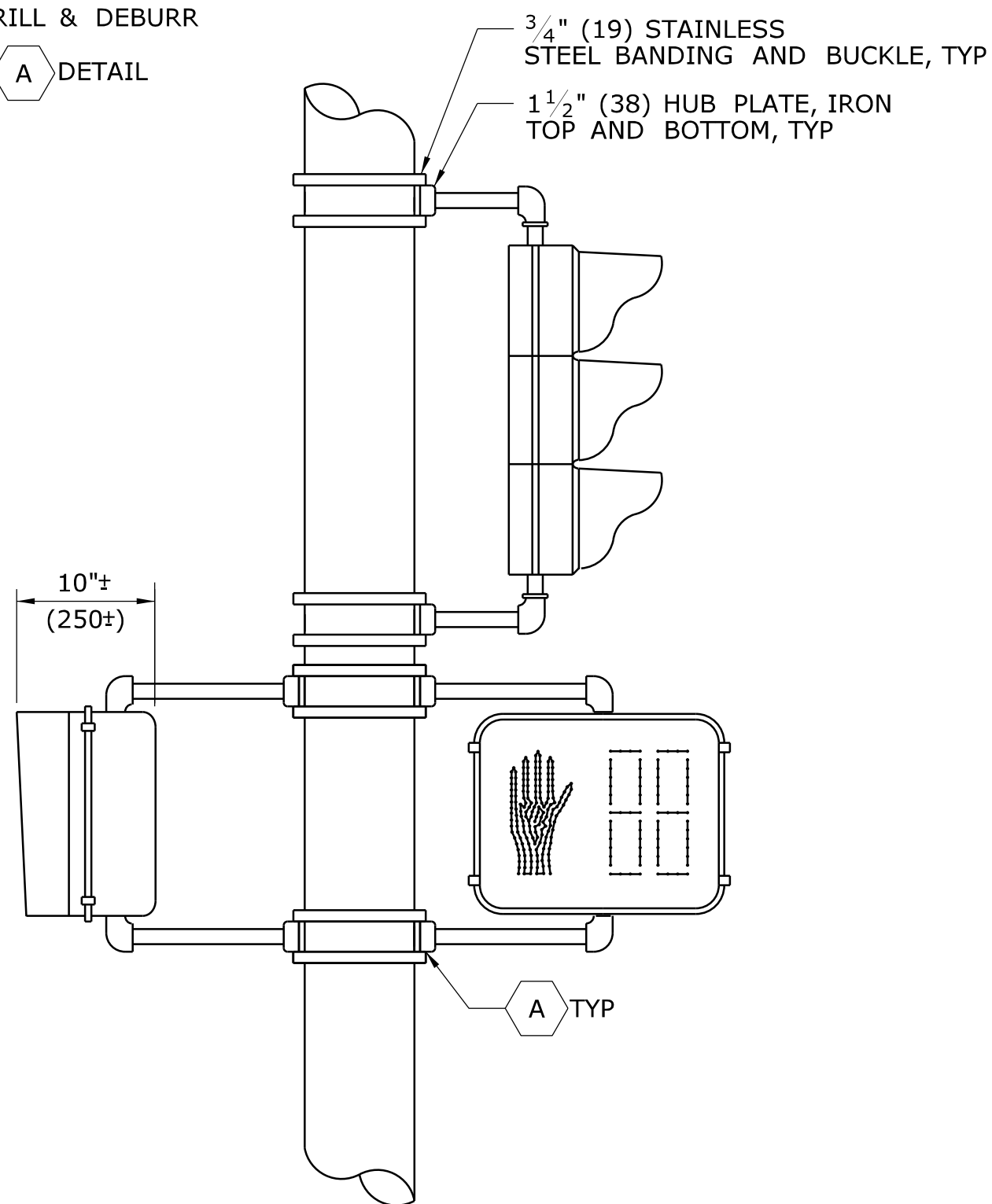
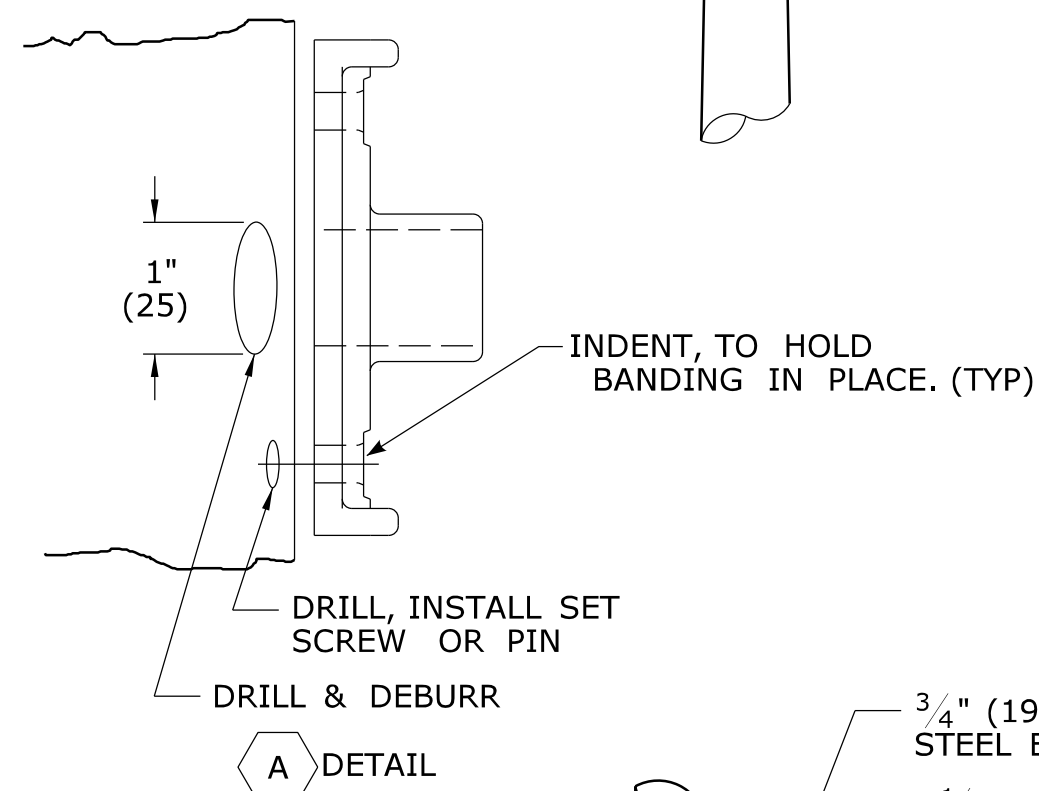
**ONE WAY WALK SIGNAL PEDESTAL MOUNTED**



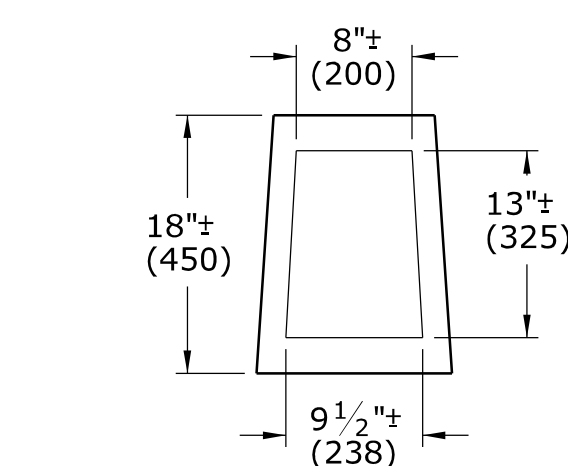
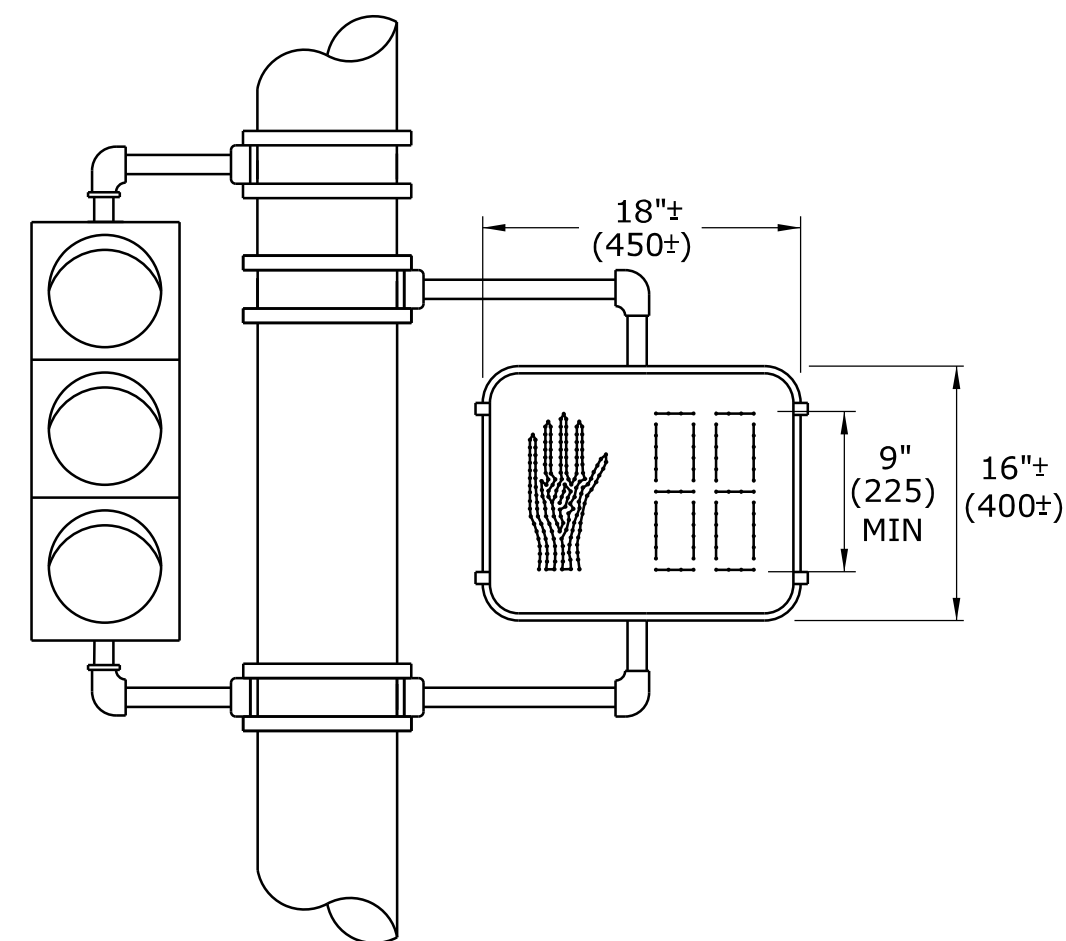
NON-COUNTDOWN DISPLAY, ONLY WHEN SHOWN ON PLAN. DON'T WALK/PED CLEAR. WALK



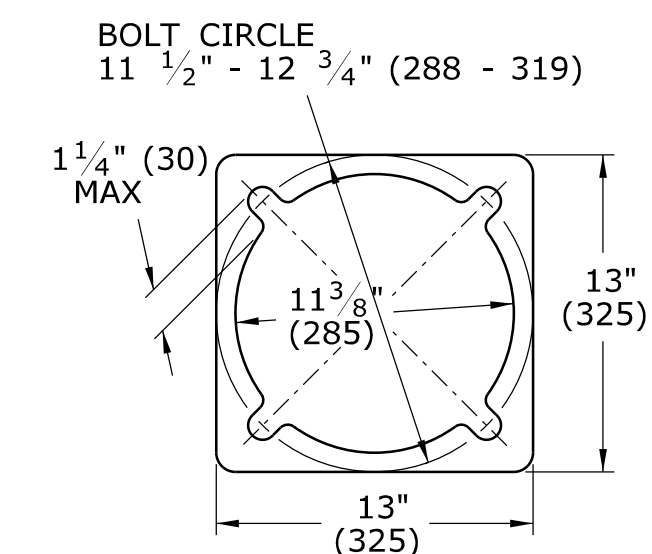
**ALUMINUM PEDESTAL INSTALLATION DETAIL**



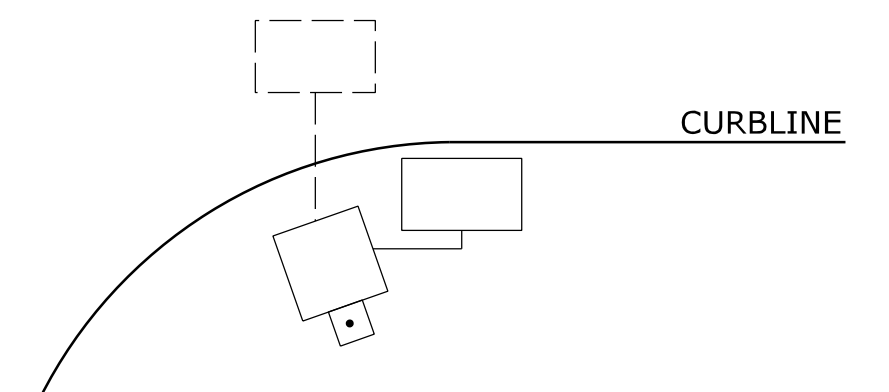
**ONE WAY TRAFFIC SIGNAL POLE MOUNTED**



**ALUMINUM PEDESTAL DOOR OPENING DETAIL**



**ALUMINUM PEDESTAL BASE PLAN**



WHEN PEDESTALS OR SPAN POLES ARE INSTALLED CLOSE TO THE CURB, SIDE MOUNT PEDESTRIAN OR TRAFFIC SIGNALS TO AVOID VISOR DAMAGE FROM TURNING VEHICLES.

NOTES:

- A SECURE LOWER HUB PLATE WITH STAINLESS STEEL SET SCREW OR PIN PRIOR TO BANDING TO PREVENT MOVEMENT. INSTALL CABLE THROUGH BOTTOM OF HUB PLATE.
- B REFER TO CTDOT TRAFFIC STANDARD SHEET, TR-1105.01, TRAFFIC SIGNALS & CABLE ASSIGNMENTS.
- C IF THREADED, MIN 1" (25) THREADED INTO BASE, SECURED WITH STAINLESS STEEL SET SCREWS.
- D BASE DESIGNED AS BREAK-AWAY.

INCANDESCENT WALK SIGNAL LAMPS ARE 67 WATTS, RATED AT 8000 HOURS LAMP LIFE. LED WALK SIGNAL LAMPS ARE MAXIMUM 15 WATTS, WARRANTED AT 5 YEAR LIFE.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:	PEDESTRIAN SIGNAL
STEEL SPAN POLE, MAST ARM ASSEMBLY SHAFT	PEDESTAL MOUNTED, TRAFFIC & PEDESTRIAN SIGNALS
ALUMINUM PEDESTAL	POLE MOUNTED, TRAFFIC & PEDESTRIAN SIGNALS
TRAFFIC SIGNAL	

REV.	DATE	REVISION DESCRIPTION
2	4-2012	MINOR REVISIONS.
1	1-2010	INCLUDED COUNTDOWN PEDESTRIAN SIGNALS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 4/14/2012

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm. - UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE



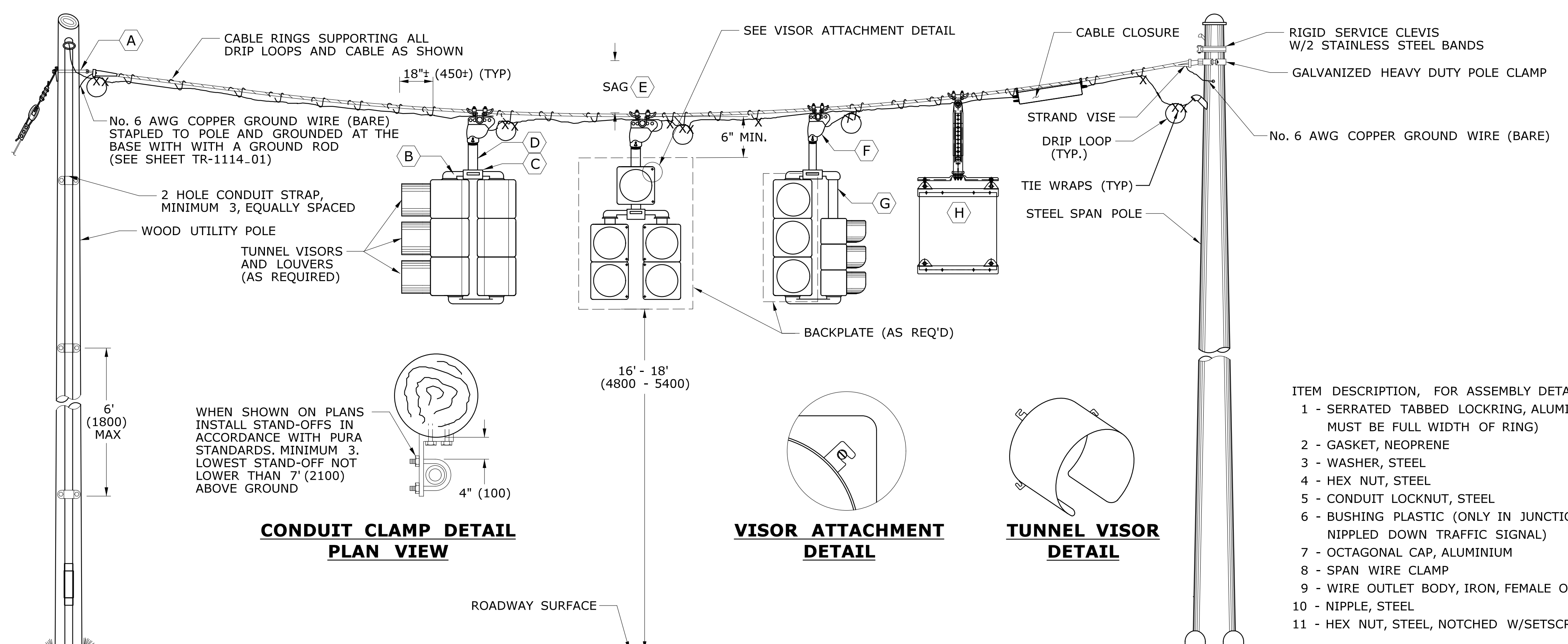
Filename: CTDOT\_TRAFFIC\_STD.dgn Model: TR-1102\_01

SUBMITTED BY:	NAME/DATE/TIME:
Tracy L. Fogarty	Tracy L. Fogarty 2012.05.01 12:55:27-04'00'
APPROVED BY:	NAME/DATE/TIME:
Timothy M. Wilson	Timothy M. Wilson 2012.05.09 10:24:58-04'00'

**CTDOT STANDARD SHEET**  
**OFFICE OF ENGINEERING**

STANDARD SHEET TITLE:  
**PEDESTALS, PEDESTRIAN SIGNALS**

STANDARD SHEET NO.:  
**TR-1102\_01**



TRAFFIC SIGNAL CABLE COLOR ASSIGNMENTS					
SIGNAL ASSEMBLY & CABLE USED	SIGNAL FUNCTION	ARTERY 1	ARTERY 2	SIDE STREET 1	SIDE STREET 2
2 - WAY 9 CONDUCTOR	RED	RED		BLACK	
	YELLOW	ORANGE		WHITE \ BLACK	
	GREEN	GREEN		BLUE	
	SPARE	GREEN\BLACK		RED \ BLACK	
	NEUTRAL	WHITE			
3 - WAY 12 CONDUCTOR	RED	RED	RED \ BLACK	BLACK	
	YELLOW	ORANGE	ORANGE \ BLACK	WHITE \ BLACK	
	GREEN	GREEN	GREEN \ BLACK	BLUE	
	SPARE	BLUE\BLACK	BLACK \ WHITE		
	NEUTRAL	WHITE			
4 - WAY 15 CONDUCTOR	RED	RED	RED \ BLACK	BLACK	RED \ WHITE
	YELLOW	ORANGE	ORANGE \ BLACK	WHITE \ BLACK	BLACK \ WHITE
	GREEN	GREEN	GREEN \ BLACK	BLUE	GREEN \ WHITE
	SPARE	BLUE\BLACK		BLUE \ WHITE	
	NEUTRAL	WHITE			

PEDESTRIAN SIGNAL CABLE COLOR ASSIGNMENTS		
SIGNAL ASSEMBLY & CABLE USED	SIGNAL FUNCTION	WIRE COLOR
WALK SIGNAL W/ PUSHBUTTON 7 CONDUCTOR	DON'T WALK	RED
	WALK	GREEN
	NEUTRAL FOR WALK SIGNAL	WHITE
	PEDESTRIAN PUSHBUTTON	BLACK
	NEUTRAL FOR PUSHBUTTON	ORANGE
WALK SIGNAL W/ PUSHBUTTON 7 CONDUCTOR	SPARE CONDUCTOR	WHITE \ BLACK
	SPARE CONDUCTOR *	BLUE \ BLACK
	RED	RED
	YELLOW	ORANGE
	GREEN	GREEN
WALK SIGNAL W/ PUSHBUTTON 7 CONDUCTOR	NEUTRAL FOR TRAFFIC SIGNAL	WHITE
	PEDESTRIAN PUSHBUTTON	BLACK
	NEUTRAL FOR PUSHBUTTON	WHITE \ BLACK
	SPARE CONDUCTOR *	BLUE \ BLACK

- ITEM DESCRIPTION, FOR ASSEMBLY DETAILS
- 1 - SERRATED TABBED LOCKRING, ALUMINUM (TAB MUST BE FULL WIDTH OF RING)
  - 2 - GASKET, NEOPRENE
  - 3 - WASHER, STEEL
  - 4 - HEX NUT, STEEL
  - 5 - CONDUIT LOCKNUT, STEEL
  - 6 - BUSHING PLASTIC (ONLY IN JUNCTION BOX OR NIPPLED DOWN TRAFFIC SIGNAL)
  - 7 - OCTAGONAL CAP, ALUMINIUM
  - 8 - SPAN WIRE CLAMP
  - 9 - WIRE OUTLET BODY, IRON, FEMALE ONLY
  - 10 - NIPPLE, STEEL
  - 11 - HEX NUT, STEEL, NOTCHED W/SETSCREWS

\* IF 14/7 FEEDS MORE THAN ONE BUTTON, SPLIT THE BUTTONS AND USE BLUE WITH BLACK TRACER FOR THE ADDITIONAL BUTTON.

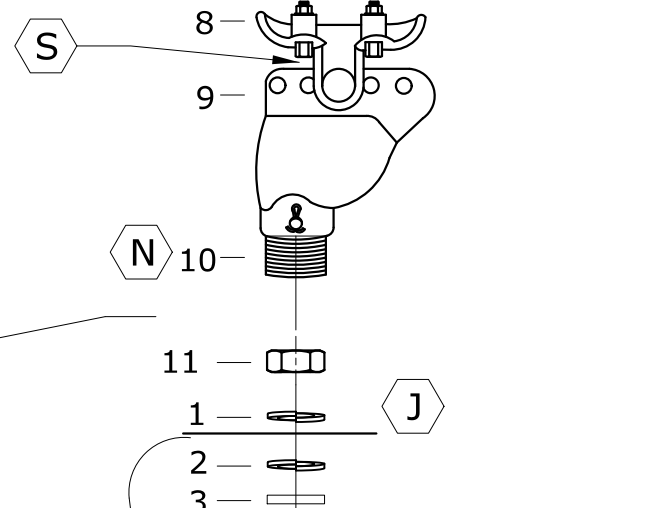
TABLE NOTES:

1. INSTALL SEPARATE CABLE BETWEEN CLOSURE AND EACH TRAFFIC SIGNAL ASSEMBLY. WIRE EACH TRAFFIC SIGNAL SECTION SEPARATELY BACK TO CABLE CLOSURE. JUMPERS BETWEEN TERMINALS ARE NOT ALLOWED EXCEPT ON NEUTRAL CONDUCTORS.
2. WIRE ALL SIGNALS, SAME DIRECTION FROM CONTROLLER, SEPARATELY WITH CONDUCTORS IN 21 CONDUCTOR CABLE, EVEN IF INDICATIONS ARE IDENTICAL.
3. CABLES THAT FEED PEDESTRIAN INDICATIONS, PUSH BUTTONS, AND DETECTORS BYPASS CABLE CLOSURE.
4. REFER TO STANDARD SHEET TR-1113.01 FOR CABLE CLOSURE - TYPE A.

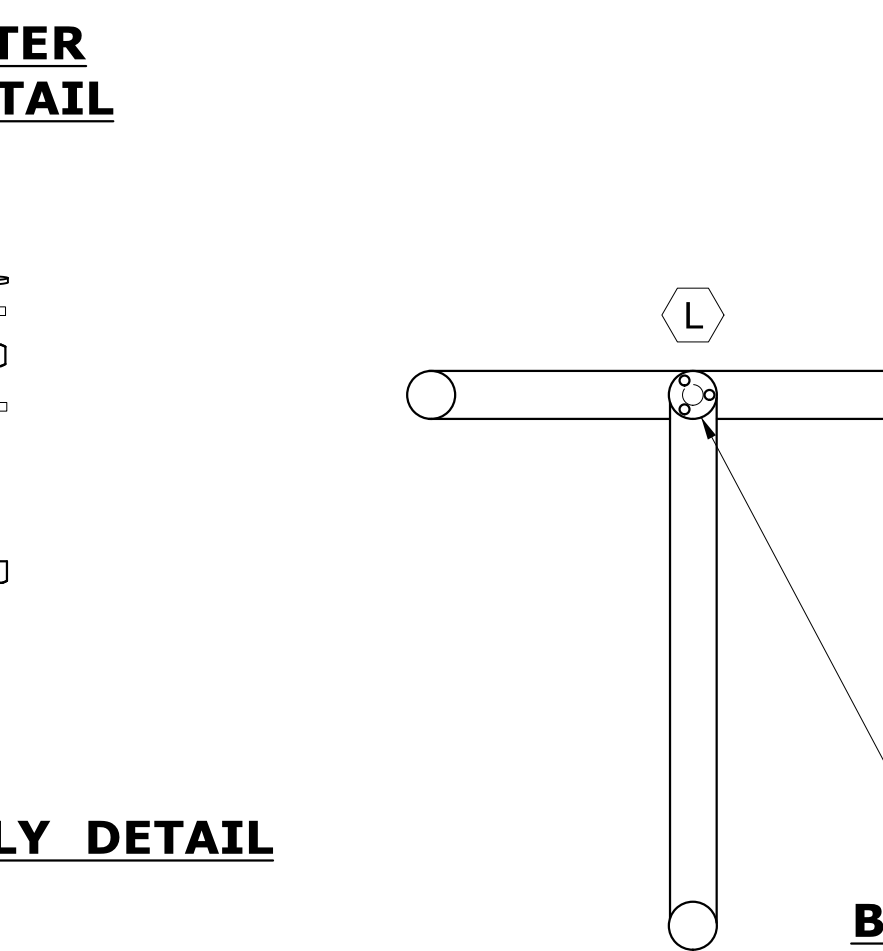
NOTES:

- SERVICE CONDUCTORS: THW, THWN OR XHHW. INDIVIDUAL WIRES MAY BE USED IN LIEU OF MULTI-CONDUCTOR CABLE.
- ALL WORK ON UTILITY POLES MUST COMPLY WITH CURRENT PURA REGULATIONS AND NESC RULES.
- (A) ATTACH SPAN AT LEAST 12" (300) BELOW LOWEST POWER COMPANY ATTACHMENT, AND AT LEAST 40" (1000) ABOVE HIGHEST COMMUNICATIONS ATTACHMENT, UNLESS OTHERWISE DIRECTED ON PLANS.
  - (B) ELBOW OR "T" FITTING MUST HAVE NOTCH FOR SERRATED TABBED LOCKRING.
  - (C) TOP BRACKET CENTER HUB SHALL BE MIN 4" (100) ROUND AND 3" (75) DEEP OR EQUAL VOLUME. SERRATION CAST IN HUB OR TABBED OR SERRATED LOCKRING, TOP OPENING NOT THREADED.
  - (D) NIPPLE LENGTH DEPENDS ON SPAN HEIGHT.
  - (E) SAG OF SPAN TO BE 5%± LENGTH, UNLESS OTHERWISE ALLOWED BY ENGINEER.
  - (F) FACE ALL ENTRANCE FITTINGS TOWARD CABLE CLOSURE.
  - (G) INSTALL EXTENSION NIPPLE ON TOP OF SIGNAL HOUSING SO BOTTOM OF ALL SIGNALS ARE EVEN.
  - (H) REFER TO TR-GS-01 "SIGN FACE SHEET ALUMINUM, R-SERIES SIGNS TYPICAL DETAILS", AND TO TR-1114.01 FOR SIGN HANGER ASSEMBLY. MAXIMUM SIGN SIZE 36" X 36" (900 X 900). ALL STAINLESS STEEL HARDWARE. SECURE LOUVERS TO TUNNEL VISORS WITH 3 STAINLESS STEEL SCREWS.

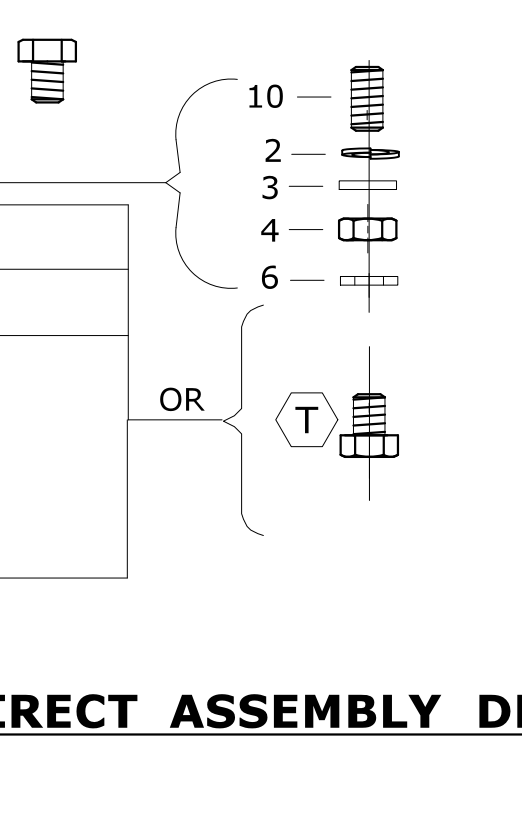
SPAN WIRE HANGER ASSEMBLY DETAIL



TWO WAY, THREE WAY & FOUR WAY NIPPLE DOWN ASSEMBLY DETAIL



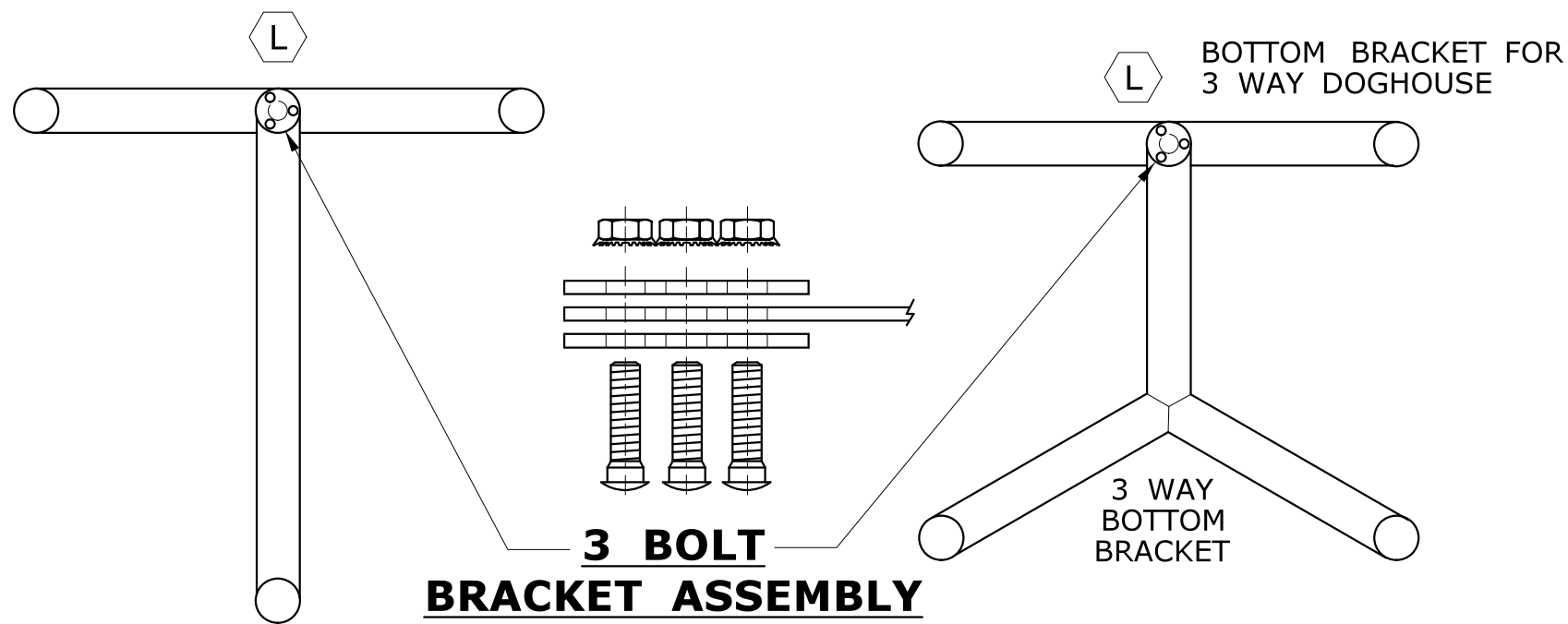
UPPER CENTER SUPPORT DETAIL



DIRECT ASSEMBLY DETAIL



- NOTES: FOR ASSEMBLY DETAILS
- (J) APPLY SILICONE CAULK BETWEEN OR AROUND SERRATED LOCKRING AND HOUSING.
  - (K) OPTIONAL USE IF NIPPLE THREADS TOO FAR INTO ELBOW.
  - (L) DRILL HOLE IN CENTER OF 2 WAY BOTTOM BRACKET - INSTALL 3 BOLT BRACKET (SEE DETAIL).
  - (M) DO NOT INSERT ORNAMENTAL CAP PAST DOTTED LINE.
  - (N) ALL THREAD.
  - (P) SETSCREW (SQUARE OR ALLEN) ON ALL FITTINGS.
  - (R) CHASE NIPPLE CAN BE SUBSTITUTED FOR THE COMBINATION OF ITEMS 6, 5 AND 10.
  - (S) INSTALL STAINLESS STEEL WASHER ON INSIDE OF COTTER PIN. COTTER PIN AND WASHER SHALL BE ON SIDE OF HANGER AWAY FROM SIGNAL CABLES.
  - (T) CHASE NIPPLE CAN BE SUBSTITUTED FOR COMBINATION 4, 5, 10 AND 11.
  - (U) CENTER HUB SAME AS (C) EXCEPT TOP OPENING MAY BE THREADED.
  - (V) DOOR HINGE ON OUTSIDE OF SIDE BY SIDE ASSEMBLY.



3 BOLT BRACKET ASSEMBLY  
BOTTOM "T" BRACKET FOR 2 WAY DOGHOUSE

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:	
○	PROPOSED WOOD SPAN POLE
◐	EXISTING WOOD SPAN POLE
○	PROPOSED STEEL SPAN POLE
◐	EXISTING STEEL SPAN POLE
○	PROPOSED UTILITY POLE
◐	EXISTING UTILITY POLE
○	POLE ANCHOR & GUY
○	CABLE CLOSURE
○	SPAN MOUNTED SIGN
○	SPAN MOUNTED TRAFFIC SIGNAL

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/22/2018

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm. - UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

File name: CTDOT\_TRAFFIC\_STD\_2018-05-21.dgn Model: TR-1105\_01

SUBMITTED BY: NAME/DATE/TIME:  
Tracy L. Fogarty Tracy L. Fogarty, P.E. 2018.08.16 12:13:06-04'00'

APPROVED BY: NAME/DATE/TIME:  
Mark F. Carlini, P.E. 2018.08.21 07:46:03-04'00'

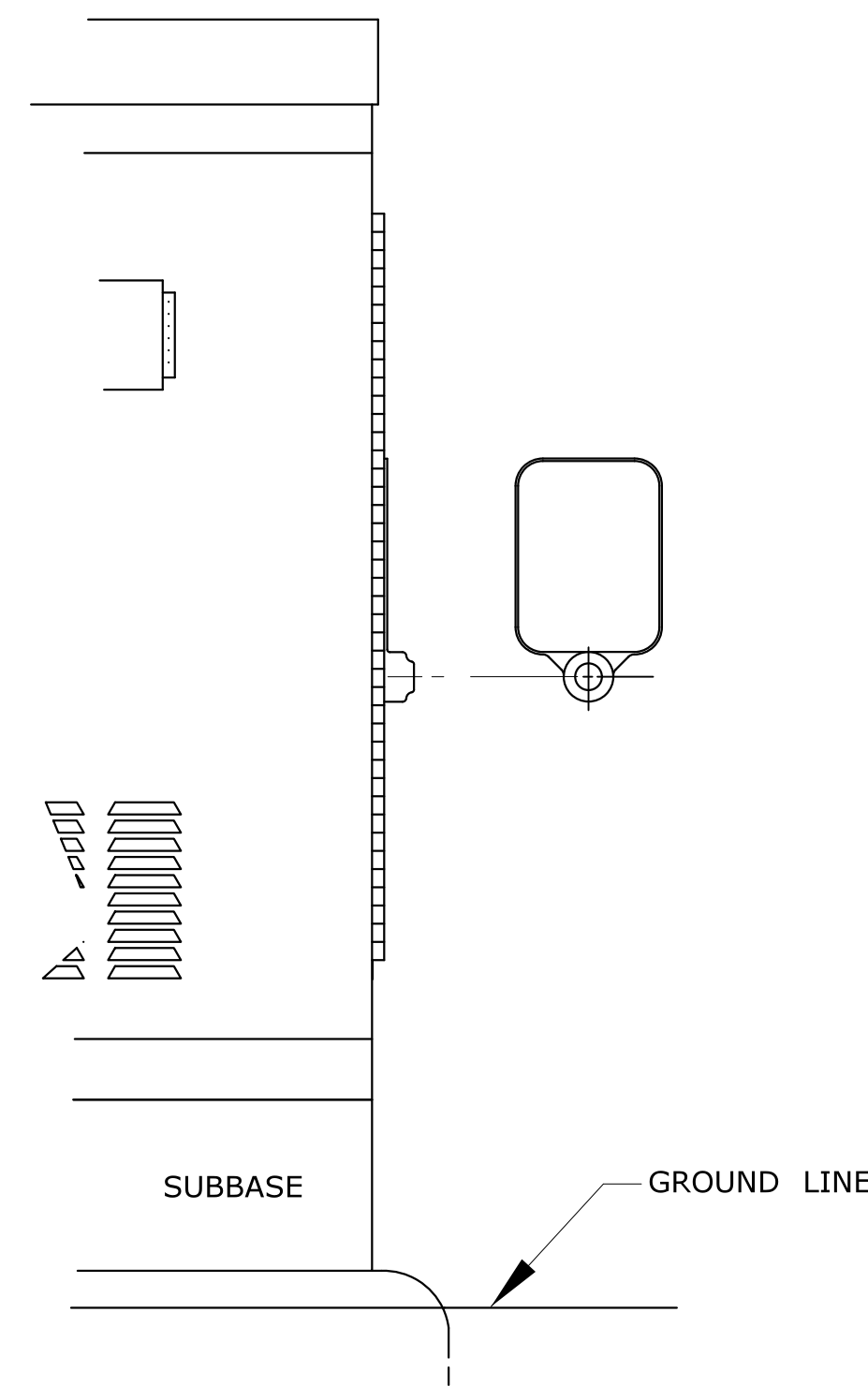
CTDOT  
STANDARD SHEET  
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:  
**TRAFFIC SIGNALS & CABLE ASSIGNMENTS**

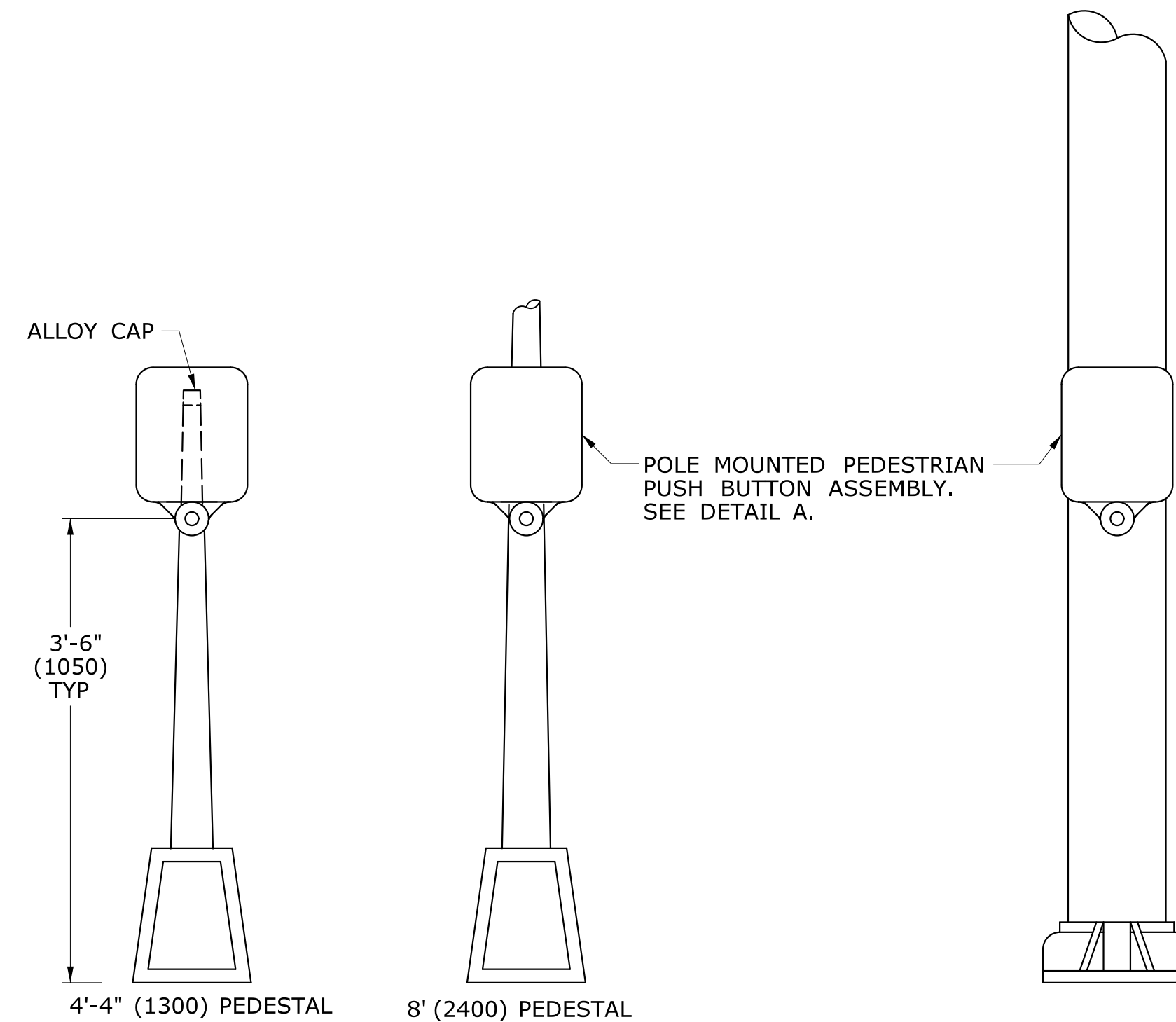
STANDARD SHEET NO.:  
**TR-1105\_01**

REV.	DATE	REVISION DESCRIPTION
4	1-2018	REVISED GROUNDING NOTE FOR SPAN AND OTHER MINOR REVISIONS.
3	3-2015	REMOVED STRAIN INSULATOR.
2	5-2013	MINOR REVISIONS.
1	4-2012	MINOR REVISIONS.

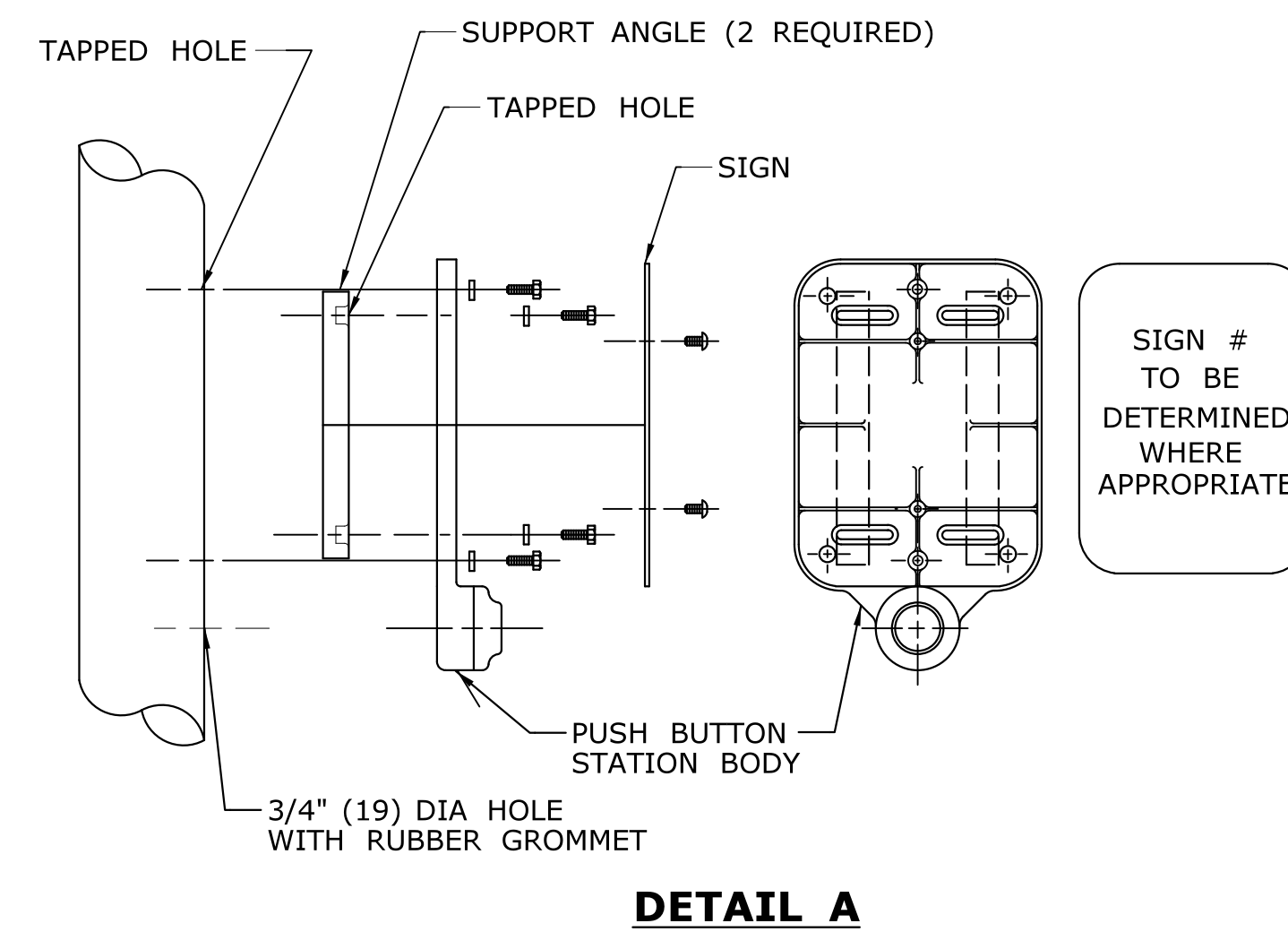




**SURFACE MOUNTED**



**PEDESTAL MOUNTED**



**DETAIL A**



SIGN # 31-0833  
USE APPROPRIATE LEFT OR RIGHT ARROW

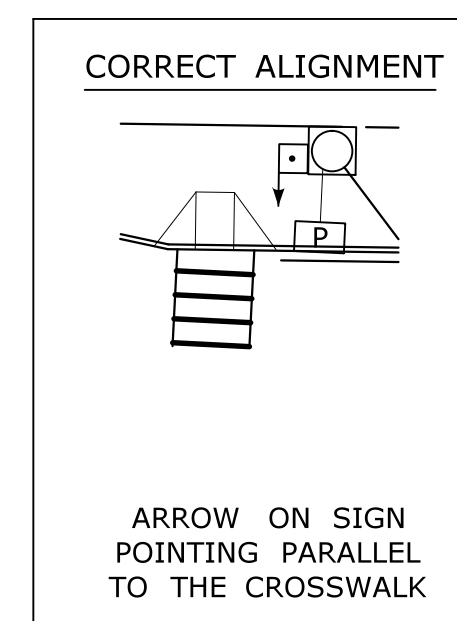


SIGN # 31-0835

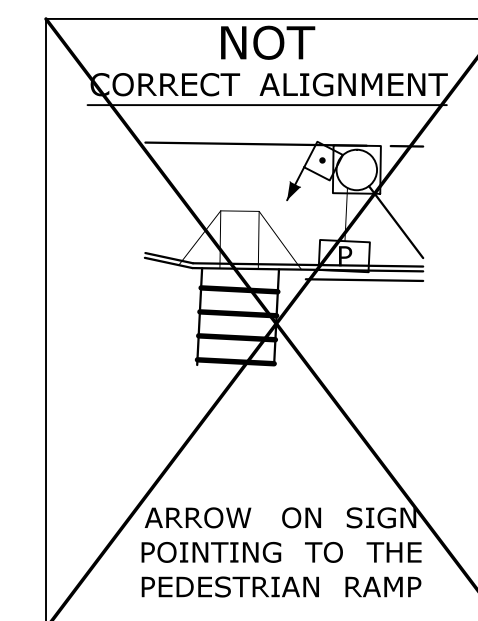
**FOR CROSSING WITH SIDE STREET GREEN**

**GENERAL NOTES:**

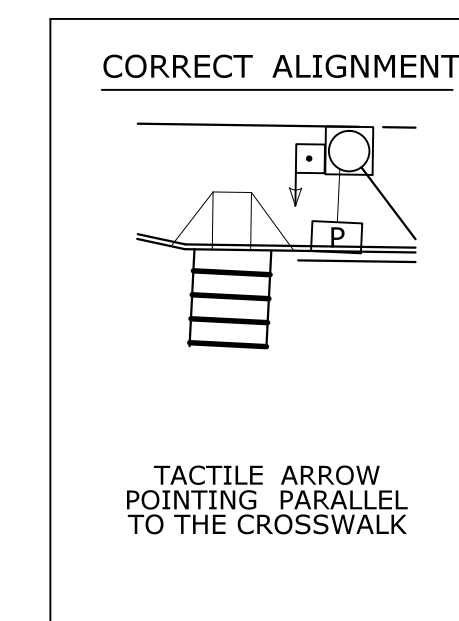
- 3'-6" (1050) FROM FINISHED GRADE SUCH AS SIDEWALK TO CENTER OF PUSH BUTTON.
- PUSH BUTTON INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN, CURRENT EDITION GOVERNS.
- 4'-4" (1300) PEDESTAL TO INCLUDE ALLOY CAP SECURED WITH STAINLESS STEEL SET SCREW.



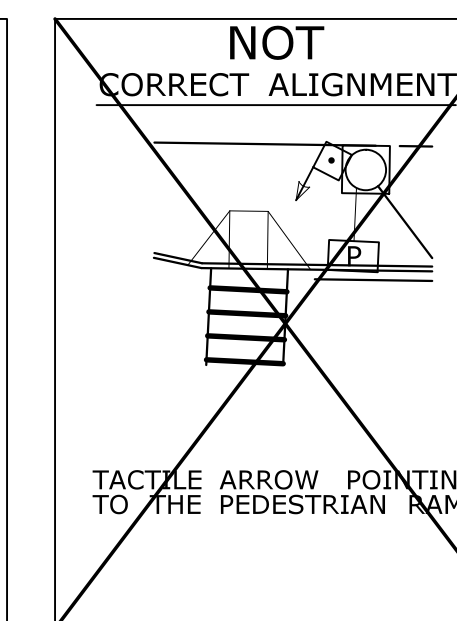
PEDESTRIAN PUSH BUTTON ALIGNMENT



NOT CORRECT ALIGNMENT  
ARROW ON SIGN POINTING TO THE PEDESTRIAN RAMP

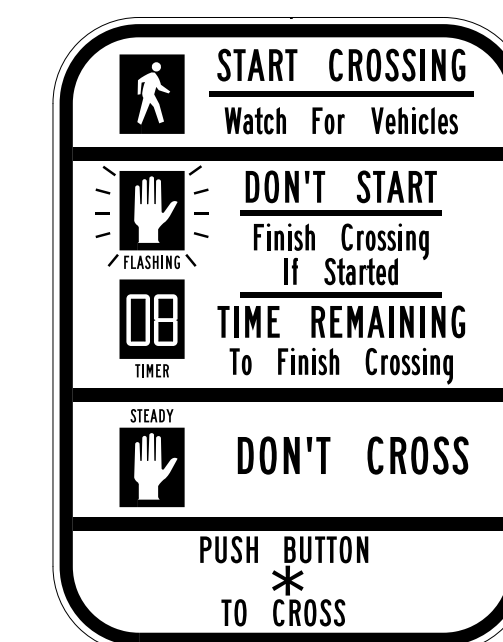


ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR



NOT CORRECT ALIGNMENT  
TACTILE ARROW POINTING TO THE PEDESTRIAN RAMP

**EXAMPLE ALIGNMENTS FOR EXCLUSIVE PEDESTRIAN PHASE**



\*USE APPROPRIATE ARROW UNLESS OTHERWISE NOTED ON PLAN.

FOR NEW PUSHBUTTON HOUSING, USE 9" x 15" SIGN NO. 31-0856.

FOR EXISTING PUSHBUTTON HOUSING, WITH 9" x 12" SIZE, USE SIGN NO. 31-0845.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

	PEDESTRIAN PUSH BUTTON
	PEDESTRIAN PUSH BUTTON, PEDESTAL MOUNTED
	PEDESTRIAN PUSH BUTTON, POLE MOUNTED

REV.	DATE	REVISION DESCRIPTION
3	8-2018	UPDATED PEDESTRIAN SIGN LEGENDS AND NOTES.
2	4-2014	ADDED PEDESTRIAN EXAMPLE ALIGNMENTS
1	4-2012	MINOR REVISIONS & UPDATED SIGN #31-0845.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/9/2018

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm).  
METRIC DIMENSIONS ARE ROUNDED:  
- OVER 1" TO NEAREST 5 mm  
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT\_TRAFFIC\_STD\_2018-01-25.dgn Model: TR-1107\_01

SUBMITTED BY: NAME/DATE/TIME:  
*Tracy L. Fogarty* Tracy L. Fogarty, P.E.  
2018.08.16 12:13:35-04'00'

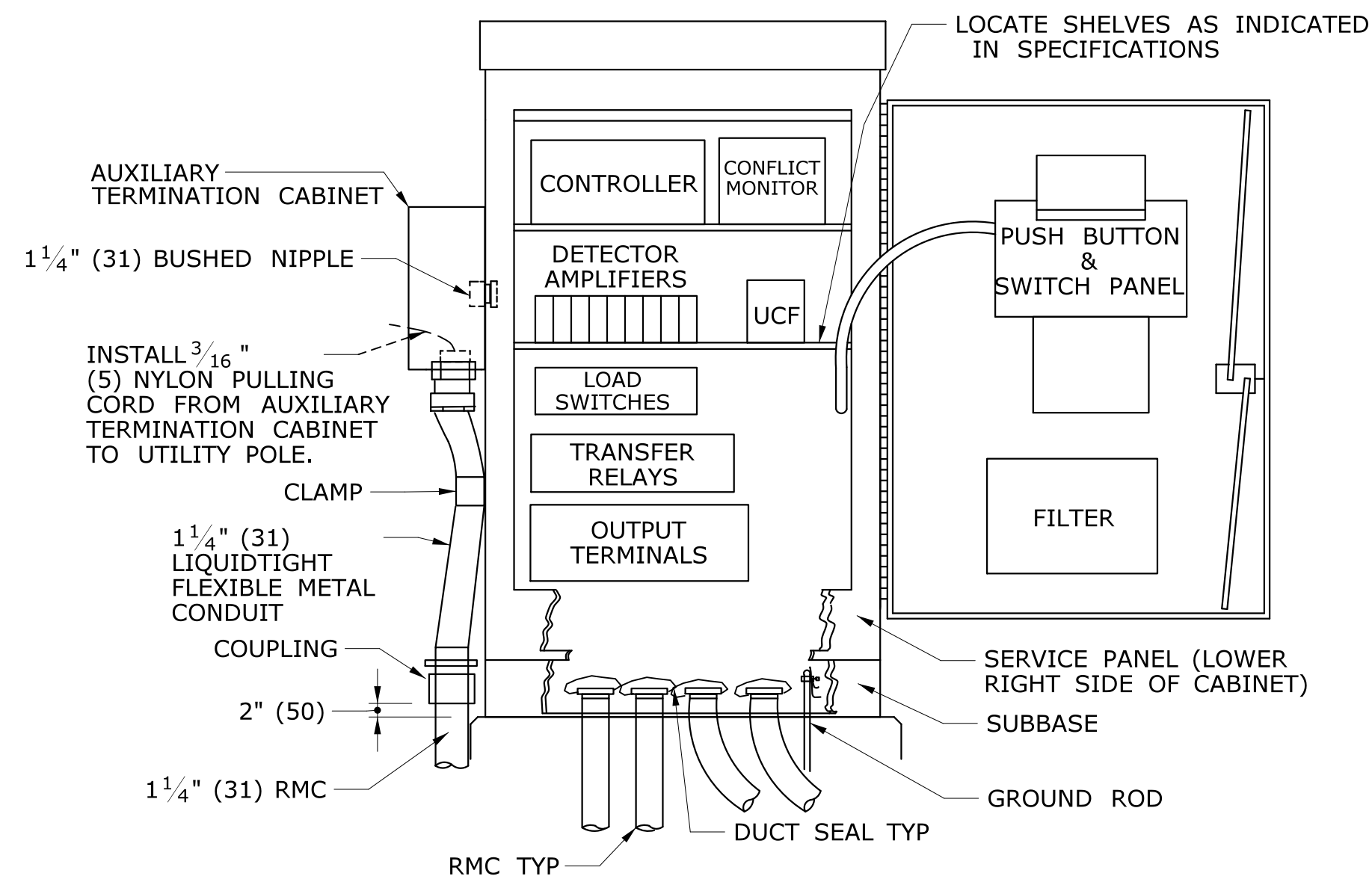
APPROVED BY: NAME/DATE/TIME:  
*UPCR* Mark F. Carlini, P.E.  
2018.08.21 07:46:57-04'00'

**CTDOT STANDARD SHEET**

**OFFICE OF ENGINEERING**

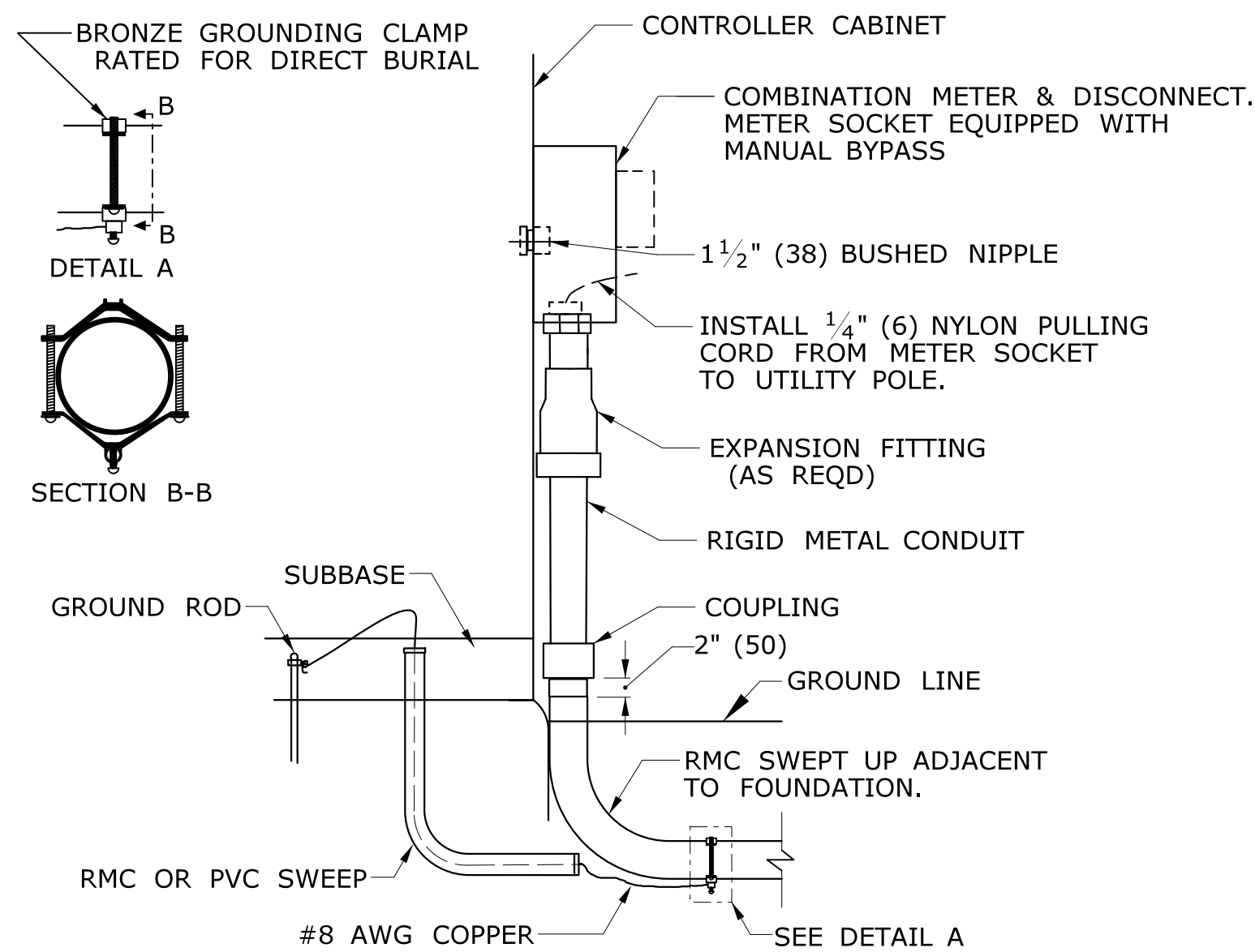
STANDARD SHEET TITLE:  
**PEDESTRIAN PUSH BUTTONS**

STANDARD SHEET NO.:  
**TR-1107\_01**

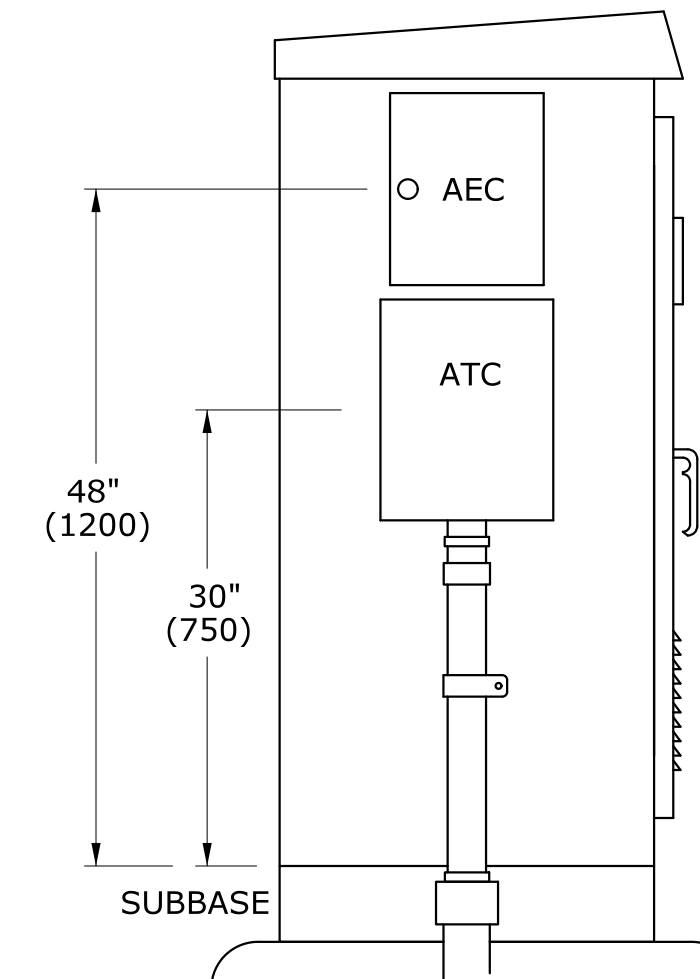


PROVIDE A MINIMUM CLEARANCE OF 6" (150) FROM THE CABINET BASE TO ALL COMPONENTS AND TERMINALS.

**TYPICAL BASE MOUNTED CONTROLLER ON TYPE IV FOUNDATION**



**CONTROLLER CABINET WITH METERED SERVICE**

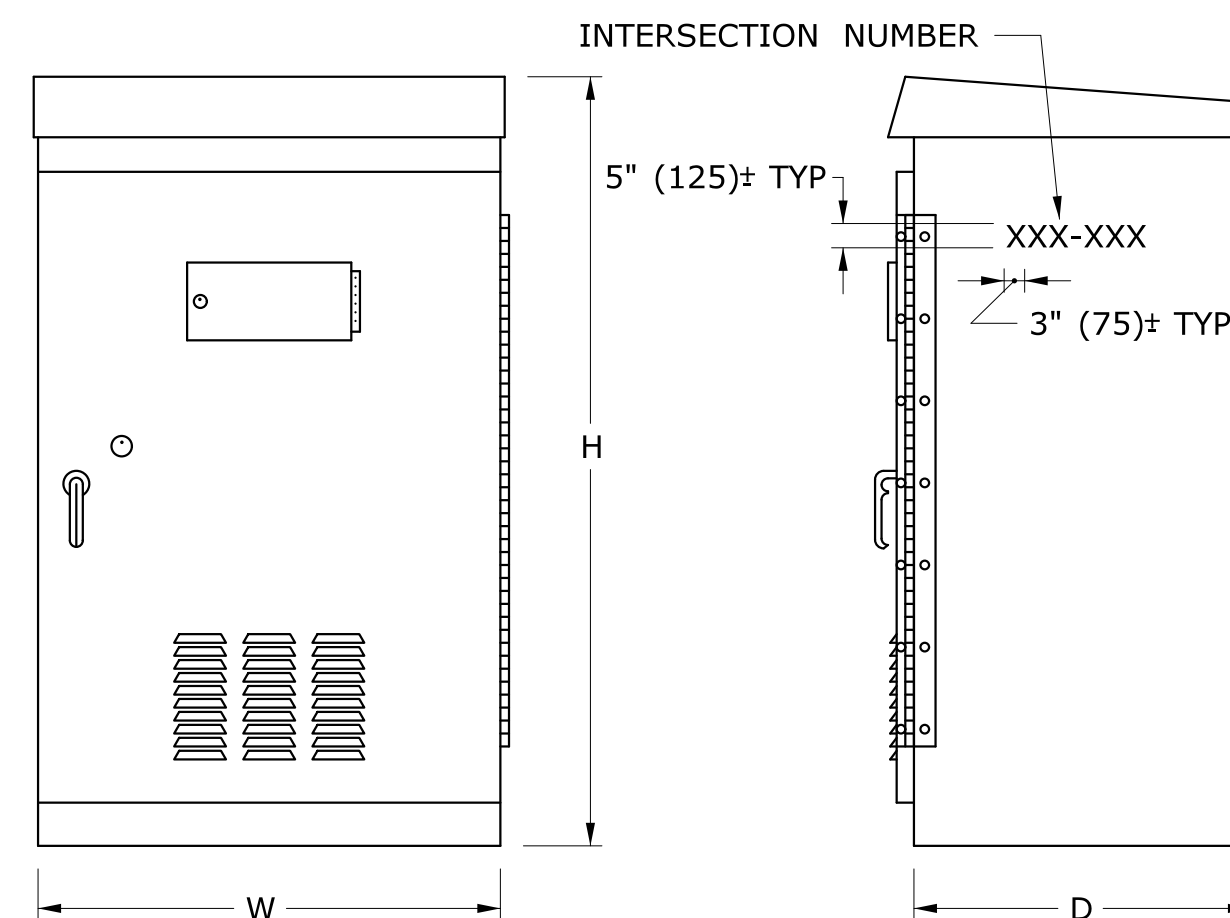


**AUXILIARY EQUIPMENT CABINET (AEC) AUXILIARY TERMINATION CABINET (ATC)**

CABINET TYPE	HEIGHT	WIDTH	DEPTH
ATC	16"(400)	12"(300)	6"(150)
AEC	14"(350)	11"(275)	11"(275)

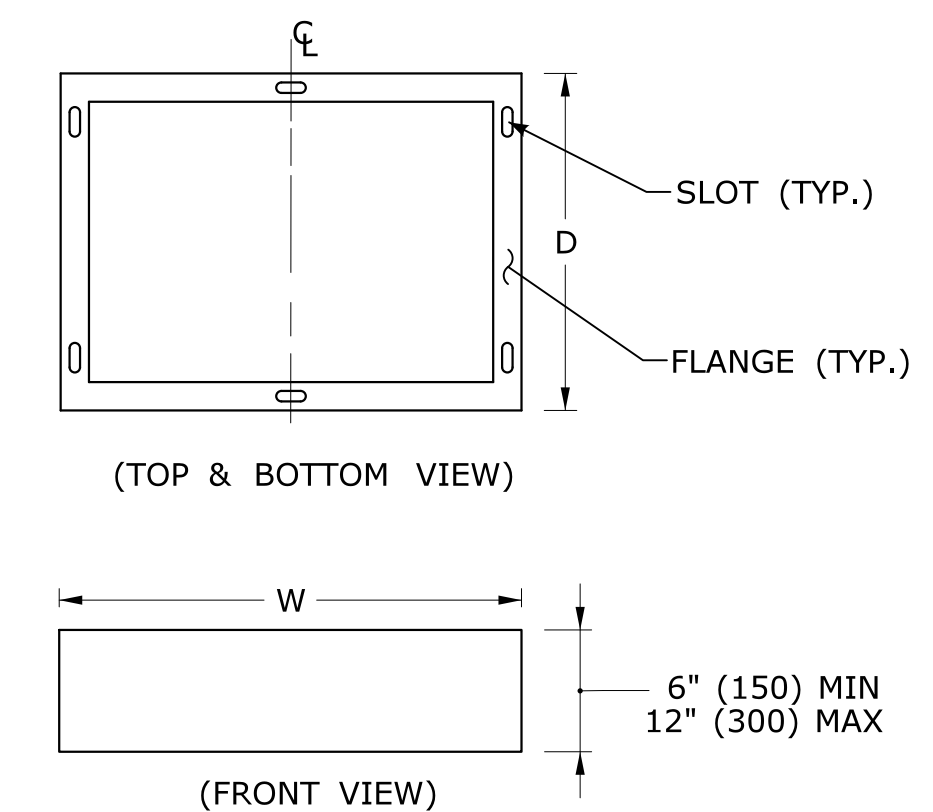
**GENERAL NOTES:**

- GROUT ALL BASES AFTER MOUNTING ON FOUNDATIONS, WHERE NECESSARY. 3'-0" (900) FROM SIDEWALK TO BOTTOM OF CONTROLLER.
- INSTALL PEDESTALS AND POLES SO THAT DOORS AND COVERS ARE ON THE SIDE AWAY FROM THE STREET, UNLESS OTHERWISE SPECIFIED.
- INSTALL CABINET SO THAT DOOR OPENS FIELD SIDE UNLESS OTHERWISE NOTED ON PLANS. CAULK SEAM BETWEEN SUBBASE AND FOUNDATION.
- STENCIL SIX DIGIT INTERSECTION NUMBER, USING BLACK PAINT ON SIDE, FRONT OR BACK OF CABINET MOST VISIBLE FROM THE ROAD.



**BASE MOUNTED TRAFFIC CONTROLLER (TYPE B, D & E)**

CABINET TYPE	DEPTH		WIDTH		HEIGHT	
	MIN	MAX	MIN	MAX	MIN	MAX
B	17" (425)	19" (475)	30" (750)	34" (850)	52" (1300)	56" (1400)
D	25" (625)	27" (675)	42" (1050)	45" (1125)	54" (1350)	59" (1475)
E	17" (425)	19" (475)	30" (750)	32" (800)	49" (1225)	52" (1300)



**SUBBASE**

SLOT AND FLANGE DIMENSIONS TO BE PER MANUFACTURER.

**LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:**

- CONTROLLER ASSEMBLY
- AUXILIARY EQUIPMENT CABINET
- AUXILIARY TERMINATION CABINET

REV.	DATE	REVISION DESCRIPTION
2	5-2013	REVISED SUBBASE.
1	4-2012	REVISED CABINET TYPES & MINOR REVISIONS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/15/2013

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: + OVER 1" TO NEAREST 5 mm. - UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

FILENAME: CTDOT\_TRAFFIC\_STD.dgn MODEL: TR-1108\_01

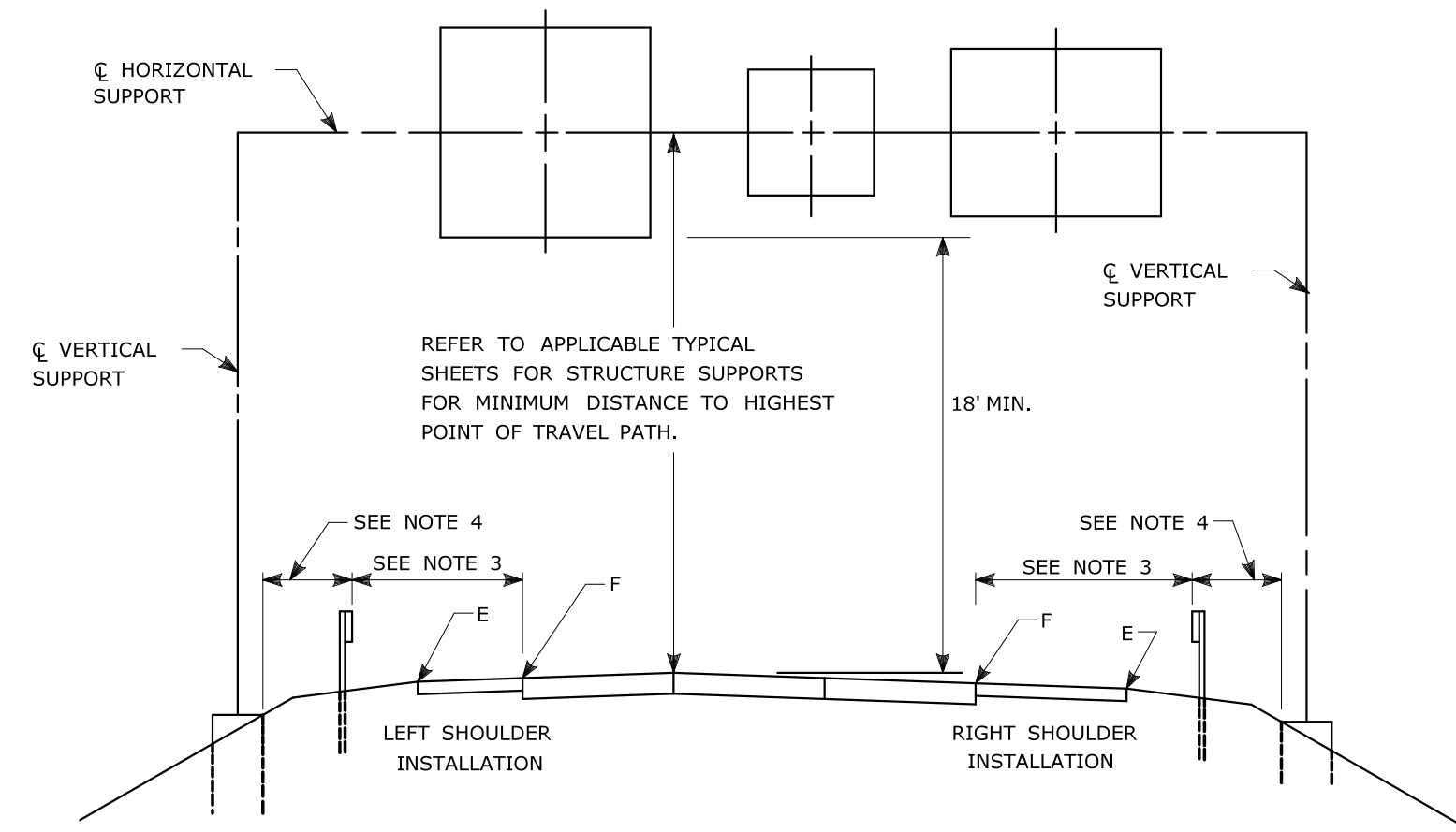
SUBMITTED BY: Tracy L. Fogarty 2013.07.29 14:04:24-04'00'

APPROVED BY: Charles S. Harlow 2013.07.29 14:59:45-04'00'

CTDOT STANDARD SHEET OFFICE OF ENGINEERING

STANDARD SHEET TITLE: CONTROLLERS

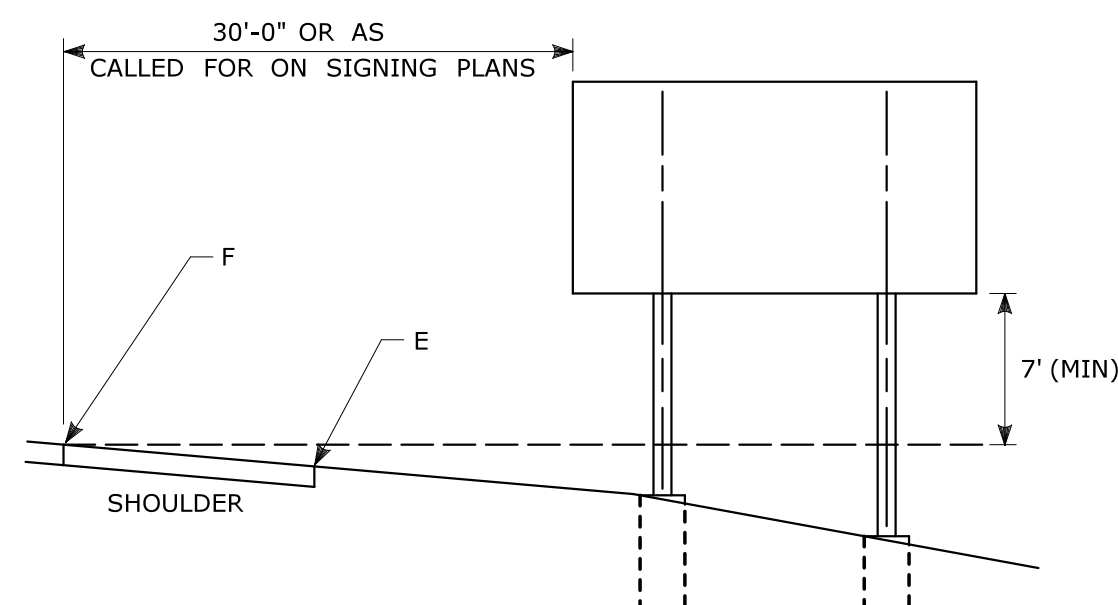
STANDARD SHEET NO.: TR-1108\_01



**TYPICAL PLACEMENT OF OVERHEAD SIGNS ON SIGN SUPPORTS**

**NOTES:**

- 1) FOR PLACEMENT OF CANTILEVER SIGN SUPPORT USE APPLICABLE PORTION OF ABOVE DETAIL.
- 2) BARRIER SYSTEMS MAY BE REQUIRED FOR BOTH SIDES OF SUPPORTS IN MEDIANS.
- 3) IMPACT PROTECTION SHALL BE PROVIDED FOR THE SIGN SUPPORTS LOCATED WITHIN CLEAR ZONE.
- 4) SIGN SUPPORT FOUNDATIONS SHALL BE LOCATED OUTSIDE OF BARRIER SYSTEMS DEFLECTION AREA.
- 5) ALL SIGNS ARE TO BE LEVEL, REGARDLESS OF CAMBER IN SUPPORT.



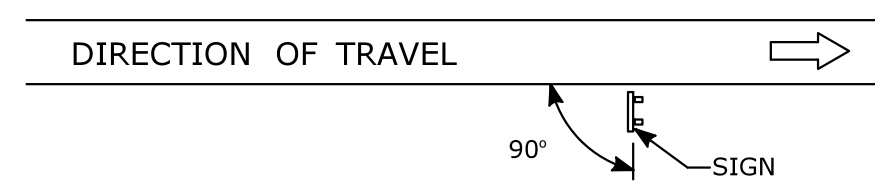
**TYPICAL PLACEMENT OF SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS**

**NOTES:**

- 1) MIN. VERTICAL CLEARANCE ABOVE SIDEWALKS SHALL BE 7'.
- 2) WHERE GUIDE RAIL IS USED, THE OFFSET TO THE NEAR EDGE OF SIGN FACE SHALL BE AS SHOWN ELSEWHERE IN THE CONTRACT PLANS.
- 3) ON INTERSECTING ROADS AT RAMP TERMINI, THE OFFSET TO THE NEAR EDGE OF OF SIGN FACE SHALL BE 6' MIN. FROM POINT "E".
- 4) IF 30'-0" MIN. CANNOT BE MET, PLEASE CONTACT THE ENGINEER.

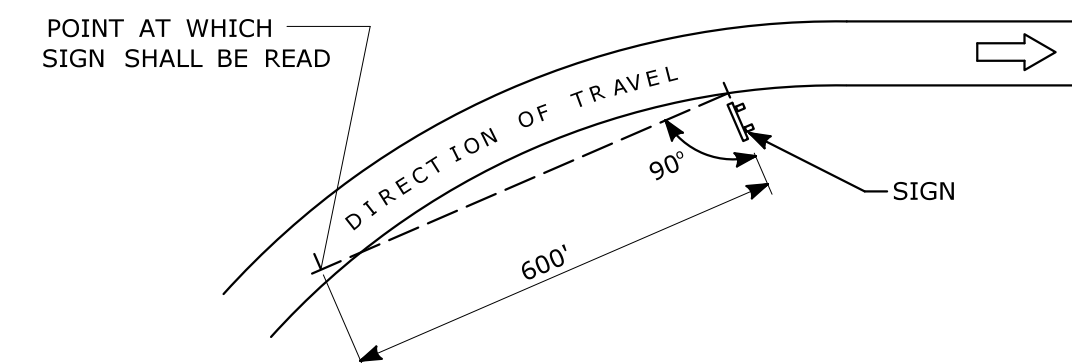
FOR MAXIMUM EFFECTIVENESS, POSITION SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS AS FOLLOWS:

ON A TANGENT SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH THE TRAFFIC LANE WHICH THE SIGN SERVES. SIGNS LOCATED 30 FT OR MORE FROM THE EDGE OF THE ROAD SHALL BE TURNED APPROXIMATELY 3° TOWARD THE ROAD.



**DIAGRAM "A"**

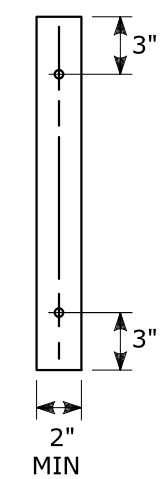
ON A HORIZONTAL CURVE SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH A STRAIGHT LINE BETWEEN THE SIGN AND THE POINT AT WHICH THE SIGN SHALL BE READ.



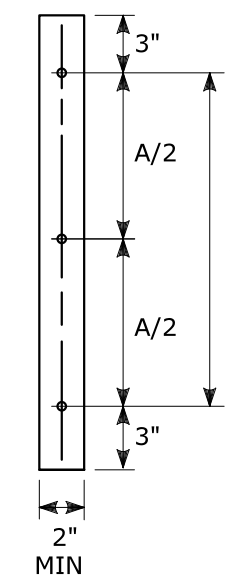
**DIAGRAM "B"**

**SIGN ORIENTATION DETAILS FOR SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS**

RETROREFLECTIVE STRIPS 48" LONG OR LESS:



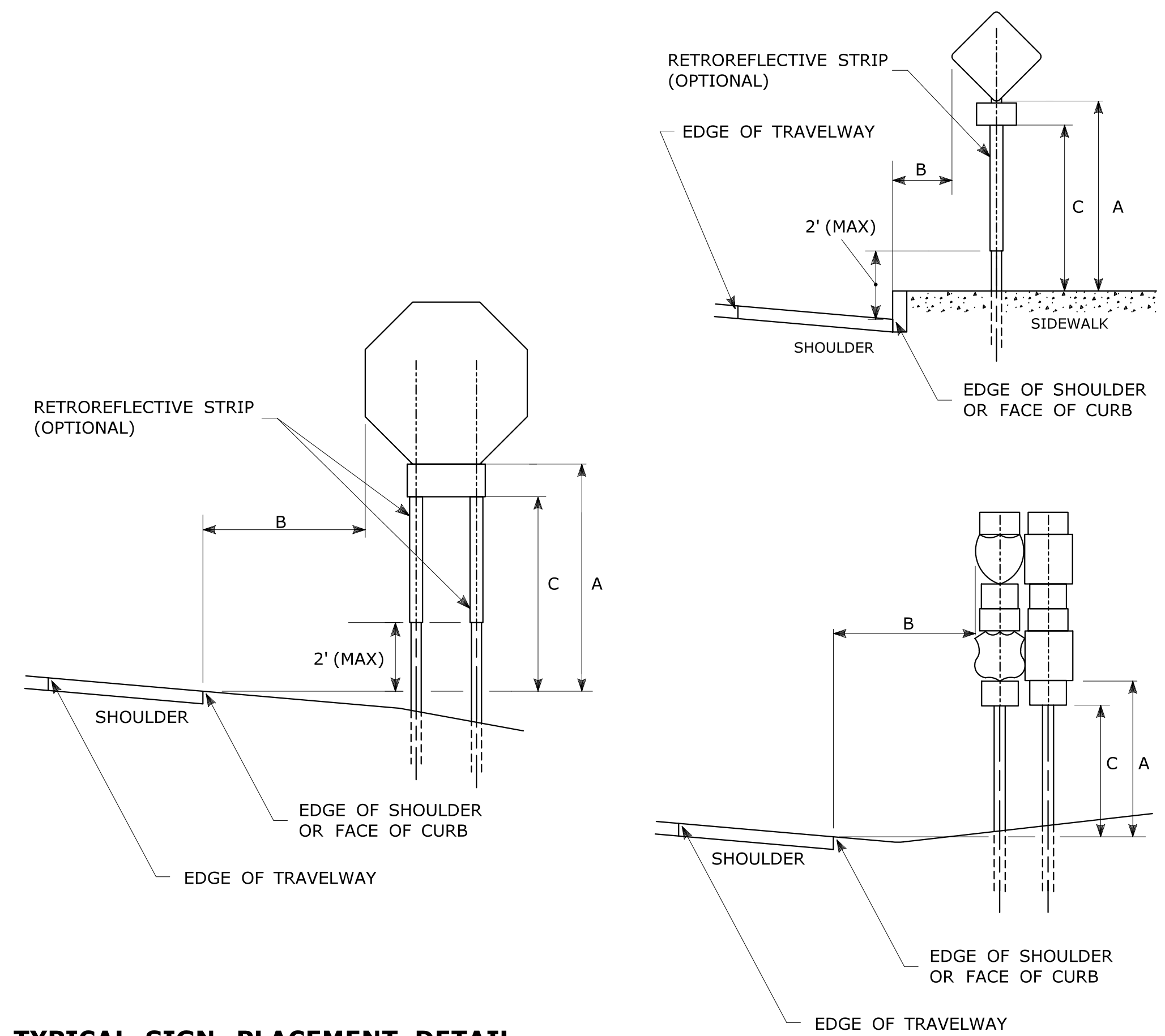
RETROREFLECTIVE STRIPS OVER 48" LONG:



**RETROREFLECTIVE STRIP DETAIL**

**NOTES:**

- RETROREFLECTIVE STRIPS WHICH ARE 48 IN LONG OR LESS SHALL BE ATTACHED USING 2 BOLTS AND RETROREFLECTIVE STRIPS OVER 48 IN LONG SHALL BE ATTACHED USING 3 BOLTS AS SHOWN ON THE DETAILS ABOVE. REFER TO STANDARD SHEET No. TR-1208.02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR MOUNTING DETAILS.
- RETROREFLECTIVE STRIP COLOR SHALL MATCH THE BACKGROUND COLOR OF THE SIGN, EXCEPT THAT THE COLOR OF THE STRIP FOR "YIELD" AND "DO NOT ENTER" SIGNS SHALL BE RED.



**TYPICAL SIGN PLACEMENT DETAIL**

**NOTES:**

- ALL SIGNS AND SHIELDS ON DIRECTIONAL ASSEMBLIES SHALL ABUT VERTICALLY. REFER TO STANDARD SHEET No. TR-1208.02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR SIGN POSTS AND SIGN MOUNTING.
- IF A RETROREFLECTIVE STRIP IS USED ON SIGN SUPPORT, IT SHALL BE PLACED FOR THE FULL LENGTH OF THE SUPPORT FROM THE BOTTOM OF THE SIGN TO WITHIN 2 FT ABOVE THE EDGE OF THE ROADWAY. PARKING SIGNS TYPICALLY USE 45° MOUNTING BRACKET.

DIM."A" MIN SIGN HEIGHT	DIM."B" MIN LATERAL OFFSET (1)	DIM."C" MIN PLAQUE HEIGHT (1)	ASSEMBLY LOCATION
7' (2)	6' 12' (3)	5'	SIGNS ON FREEWAYS AND EXPRESSWAYS EXCEPT CHEVRON ALIGNMENT SIGNS, ONE-DIRECTION LARGE ARROW SIGNS, DO NOT ENTER SIGNS, AND WRONG WAY SIGNS
5'	2'	4'	<ul style="list-style-type: none"> <li>• SIGNS IN RURAL AREAS</li> <li>• DO NOT ENTER AND WRONG WAY SIGNS ALONG EXIT RAMPS</li> <li>• DO NOT ENTER AND WRONG WAY SIGNS ON LIMITED ACCESS HIGHWAYS</li> </ul>
5'	2'	N/A	<ul style="list-style-type: none"> <li>• CHEVRON ALIGNMENT SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMPS, AND IN RURAL AREAS</li> <li>• ONE-DIRECTION LARGE ARROW SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMPS, AND IN RURAL AREAS</li> </ul>
4'	6' 12' (3)	N/A	INCIDENT MANAGEMENT SIGNS AND MILE POST MARKER ASSEMBLIES LOCATED ON FREEWAYS AND EXPRESSWAYS
4'	2'	4'	CENTRAL ISLANDS OF ROUNDABOUTS
7'	2' (4)	6'	BUSINESS & RESIDENTIAL AREAS WHERE PARKING OR OTHER OBSTRUCTIONS LIMIT VISIBILITY
7'	2' (4)	7'	SIDEWALKS (5)

(1) OR AS DIRECTED BY THE ENGINEER

(2) 8 FT MINIMUM HEIGHT REQUIRED IF A SUPPLEMENTAL PLAQUE IS SUBMOUNTED BELOW THE MAJOR SIGN.

(3) 6 FT FROM EDGE OF SHOULDER, WHEN SHOULDER IS OVER 6 FT WIDE  
12 FT FROM EDGE OF TRAVELWAY, WHEN SHOULDER IS LESS THAN 6 FT WIDE.

(4) A LATERAL OFFSET OF AT LEAST 1 FT FROM THE FACE OF THE CURB MAY BE USED WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING UTILITY POLES ARE CLOSE TO THE CURB.

(5) A CLEAR PATH OF NOT LESS THAN 4 FT SHALL BE PROVIDED IN SIDEWALK AREAS.

REV.	DATE	REVISION DESCRIPTION
3	8-2018	INCLUDED INCIDENT MANAGEMENT AND MILE MARKER SIGNS.
2	4-2017	MINOR REVISIONS.
1	2-2011	MINOR REVISIONS.

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NOT TO SCALE

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

Plotted Date: 8/10/2018

Filename: TR\_1208.01\_1\_2018.dgn Model: TR-1208.01

SUBMITTED BY: *Mark Makuch* NAME/DATE/TIME: Mark F. Makuch, P.E. 2018.08.17 09:06:06-04'00'

APPROVED BY: *Mark F. Carlino* NAME/DATE/TIME: Mark F. Carlino, P.E. 2018.08.21 07:48:06-04'00'

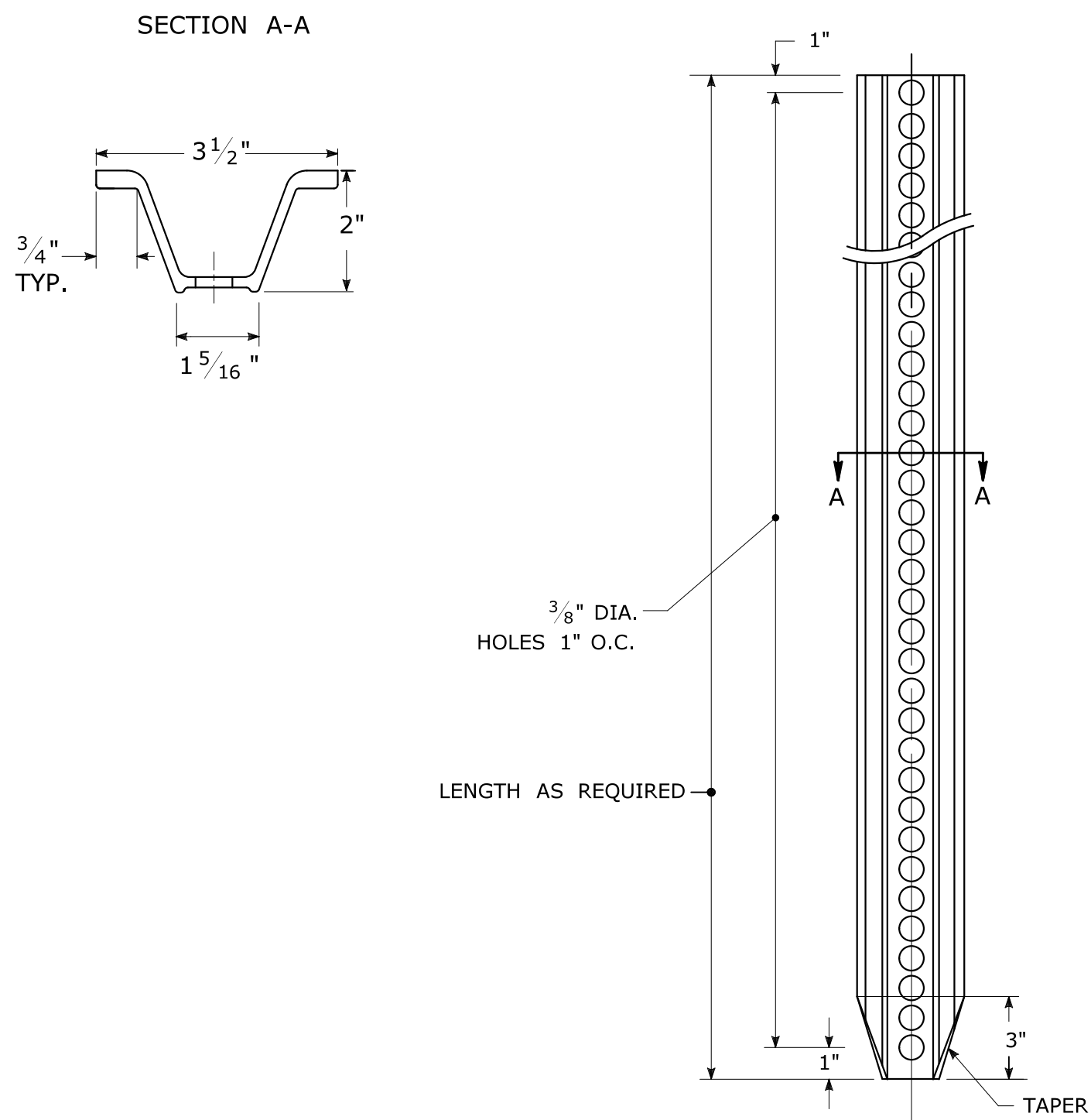
**CTDOT STANDARD SHEET**

**OFFICE OF ENGINEERING**

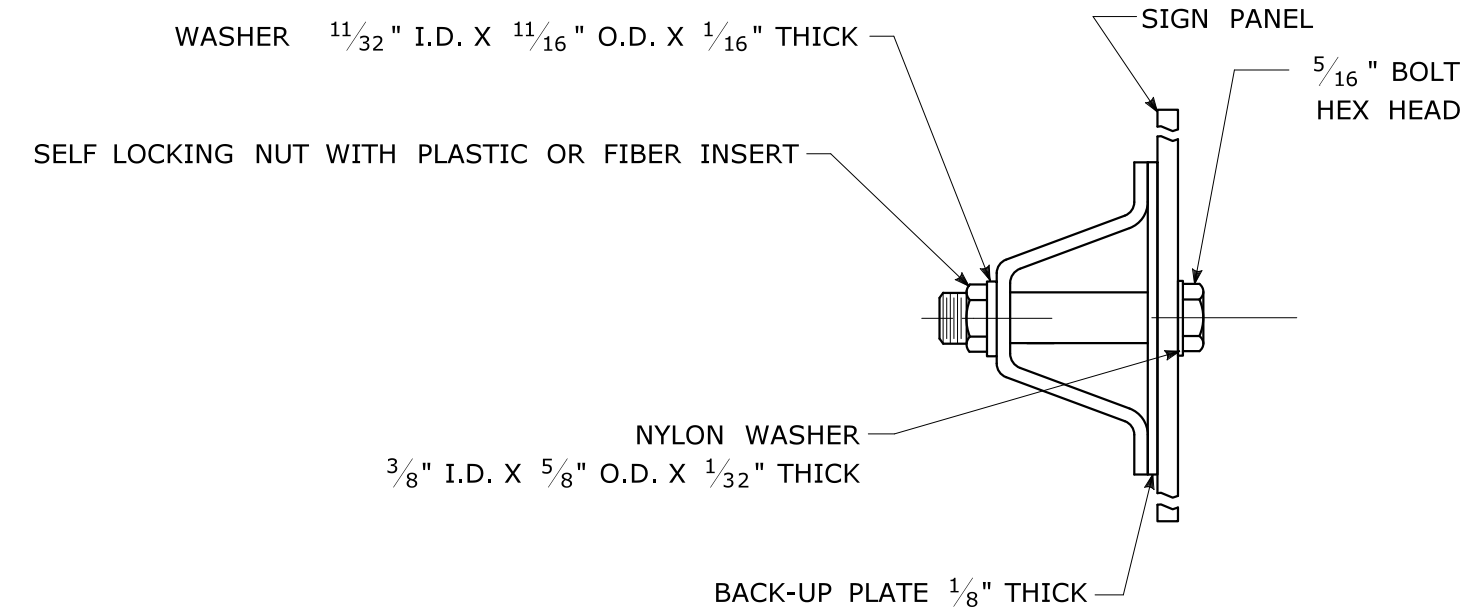
STANDARD SHEET TITLE:  
**SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS**

STANDARD SHEET NO.:  
**TR-1208\_01**

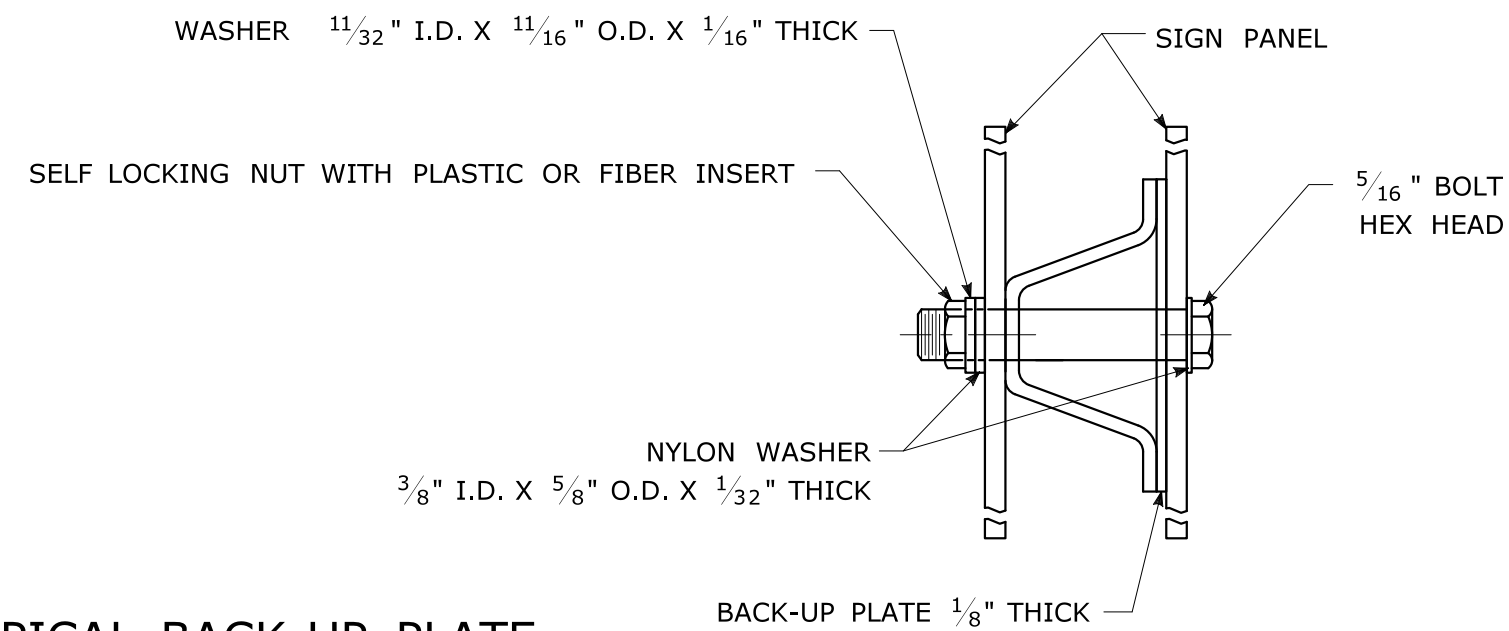
TYPICAL METAL SIGN POSTS



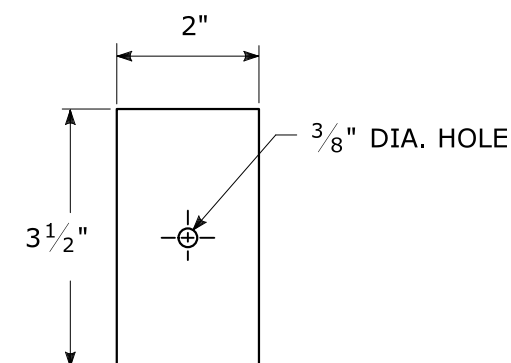
TYPICAL SIGN PANEL ATTACHMENT



TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT



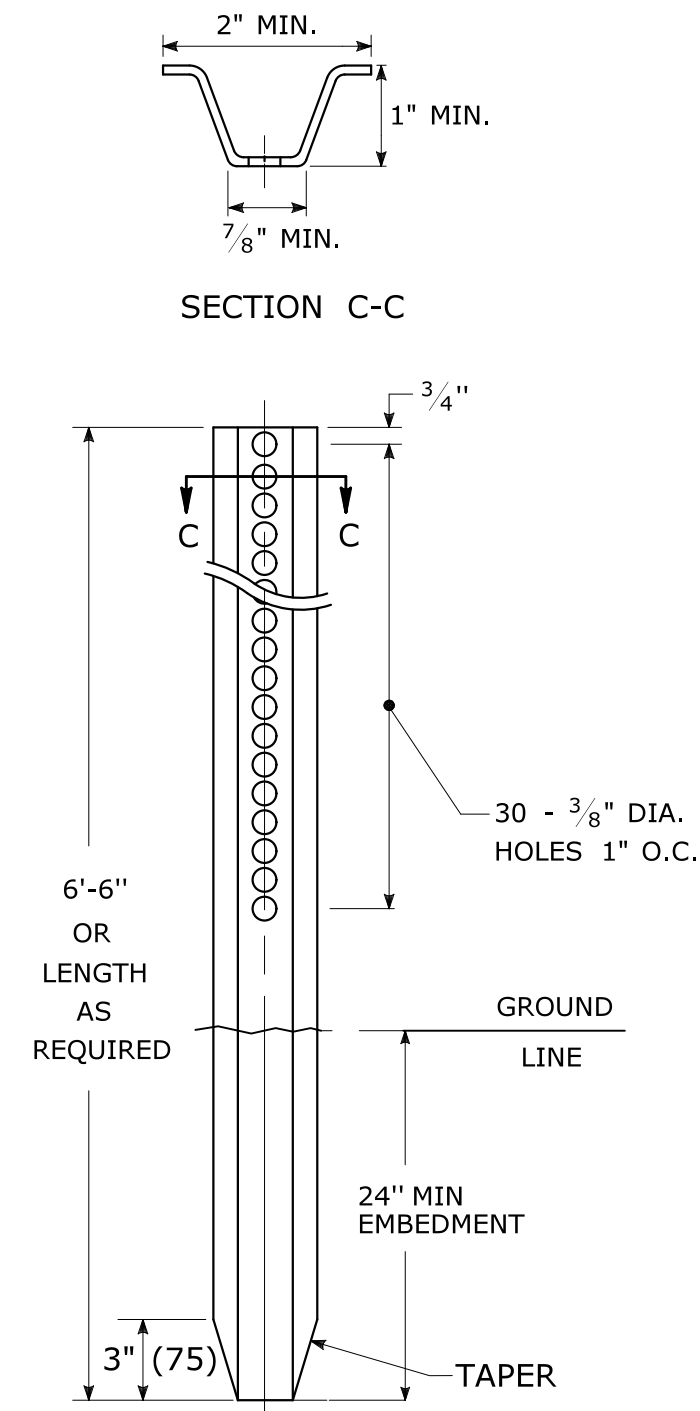
TYPICAL BACK-UP PLATE



BOLTS - STAINLESS STEEL CONFORMING TO ASTM F593, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).  
 SELF LOCKING NUTS - STAINLESS STEEL CONFORMING TO ASTM F594, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).  
 WASHERS - STAINLESS STEEL CONFORMING TO ASTM A240, (ALLOY TYPES 304 OR 316).

METAL DELINEATOR POST

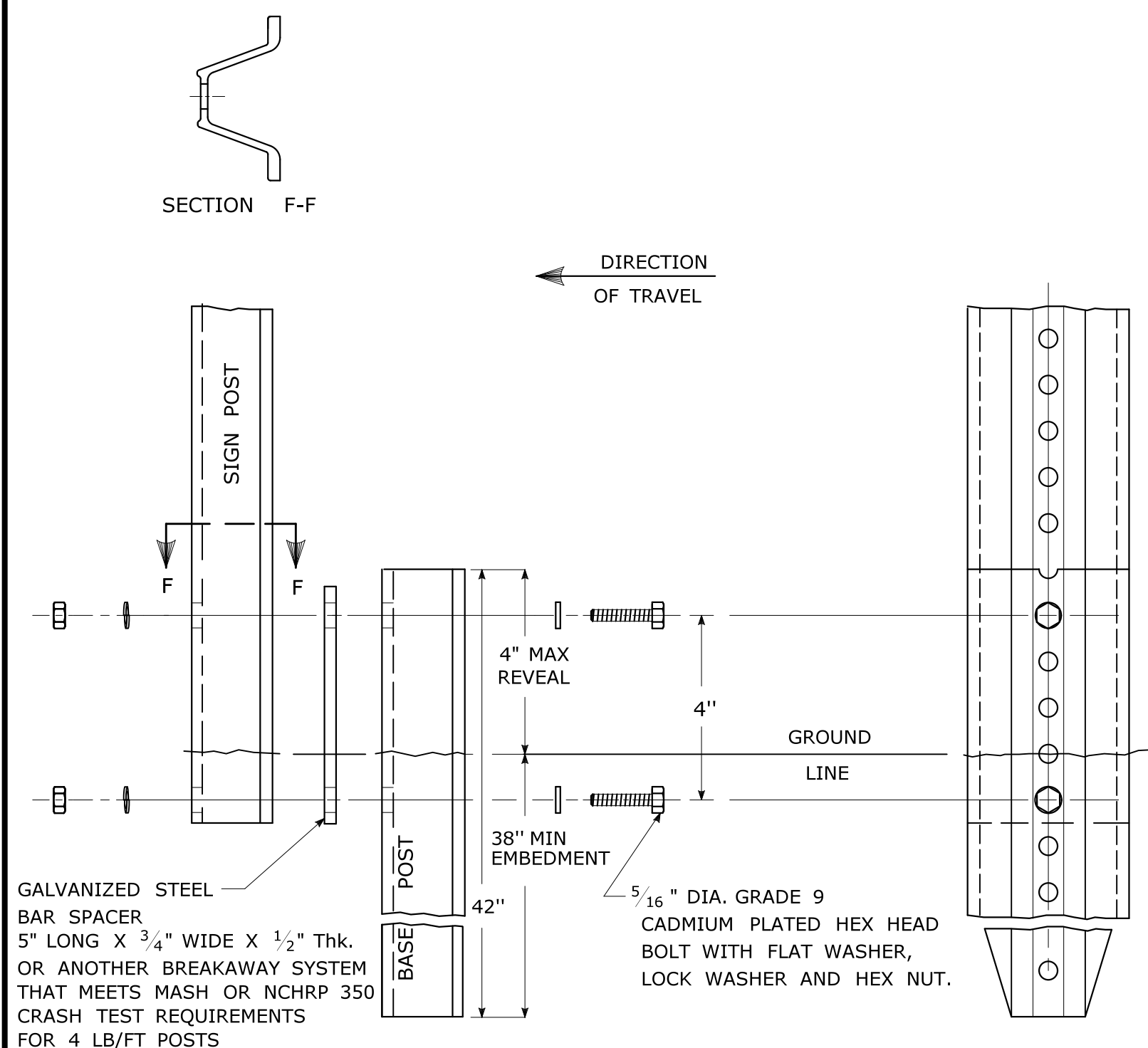
WT./FT. = 1.12 LBS./FT. MIN.



GENERAL NOTES:

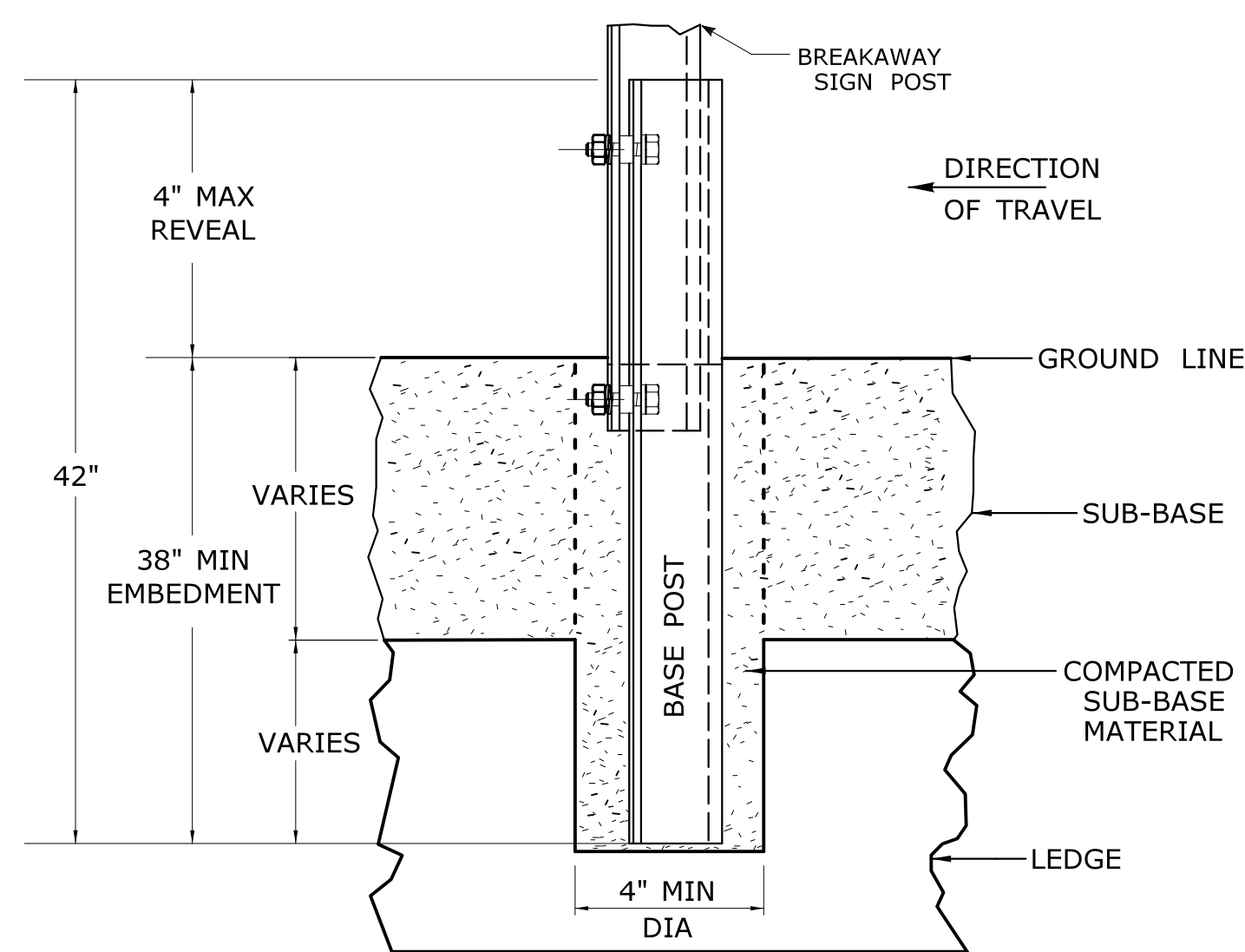
1. STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36 STEEL. STEEL FOR ALL OTHER POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499 GRADE 80 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT (MASS) OF 91 LBS. OR GREATER PER LINEAR YARD.
2. AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123.
3. WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
4. SPACER BAR FOR BREAKAWAY INSTALLATION SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A36.
5. ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153.
6. ALL SIGN POSTS SHALL HAVE BREAKAWAY FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS." THE BREAKAWAY FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 MPH WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
7. SIGN POSTS SHALL BE 4 LBS./FT.

BREAKAWAY INSTALLATION FOR 4 LBS./FT. POSTS

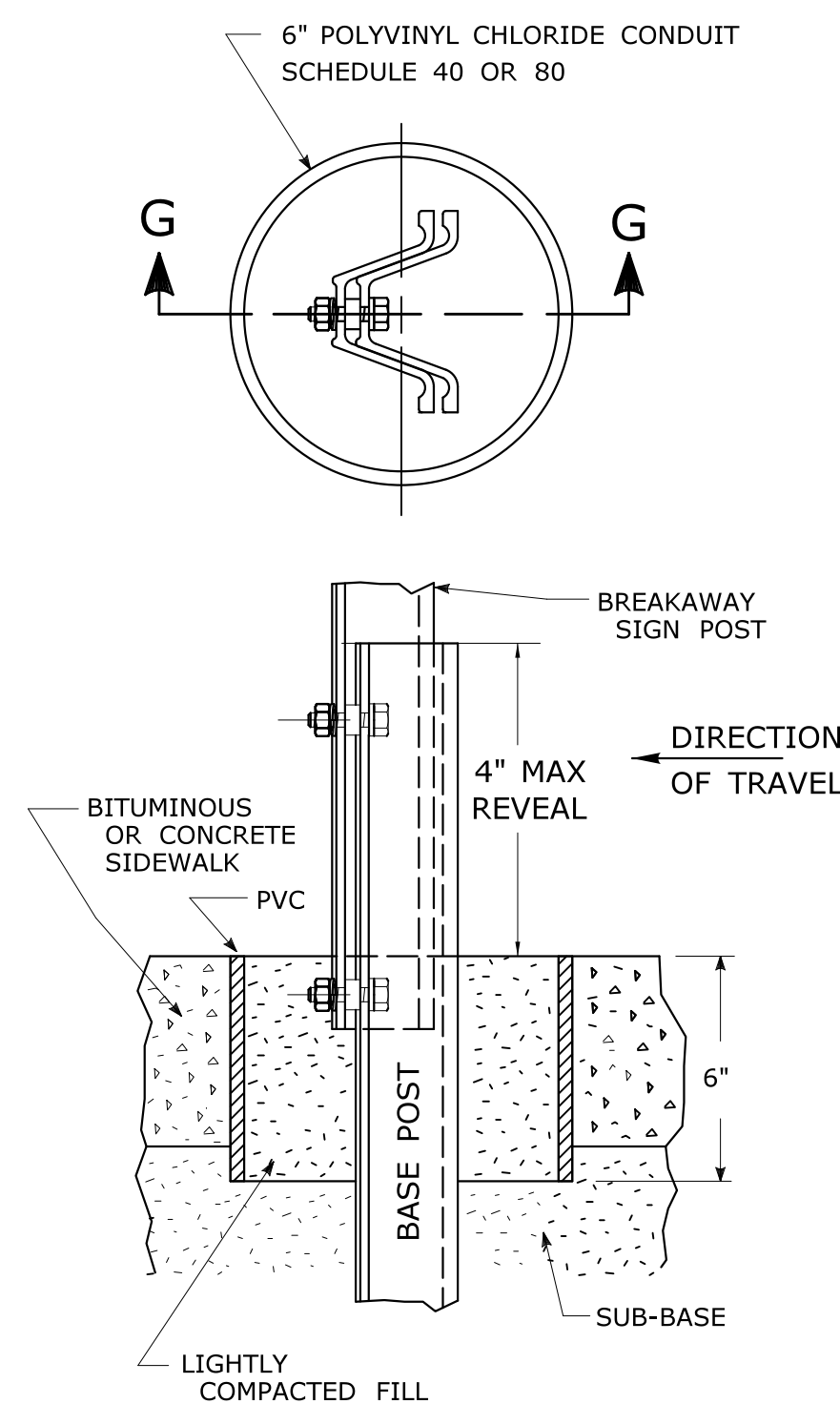


TYPICAL SIGN POST INSTALLATION IN LEDGE

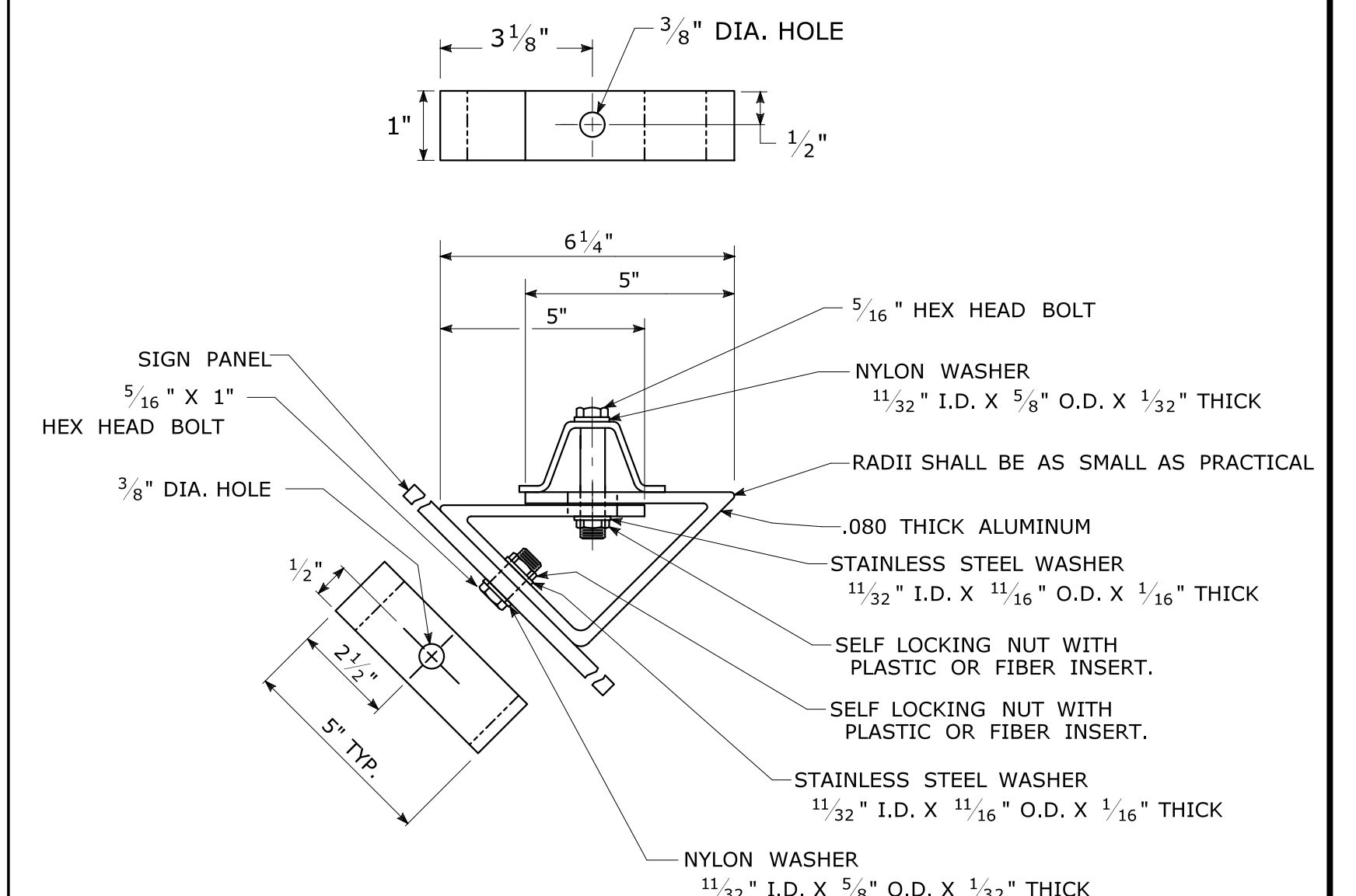
LEDGE SHALL BE REMOVED TO DRIVE THE BASE POST TO A DEPTH OF 38".  
 HOLE SHALL BE FILLED WITH SUB-BASE MATERIAL AND COMPACTED WITH A TAMPING BAR, OR TECHNIQUE APPROVED BY THE ENGINEER, PRIOR TO BASE POST INSTALLATION.



TYPICAL SLEEVE FOR PAVED AREAS



45° MOUNTING BRACKET FOR INSTALLATION OF PARKING SIGNS



REV.	DATE	REVISION DESCRIPTION
2	6-2017	SIGN POST REVISIONS.
1	2-2011	MINOR REVISIONS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 6/6/2017

NOT TO SCALE

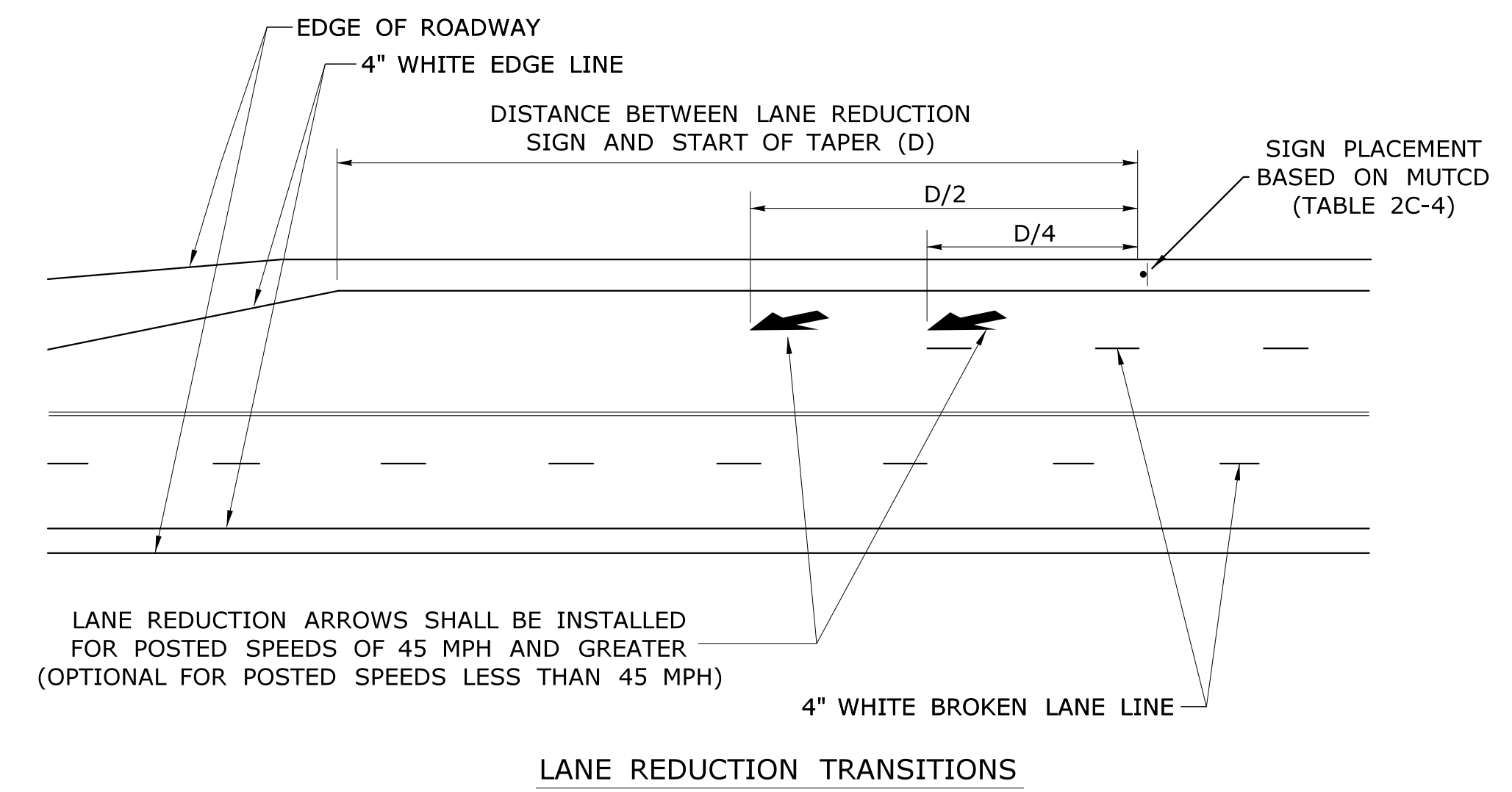
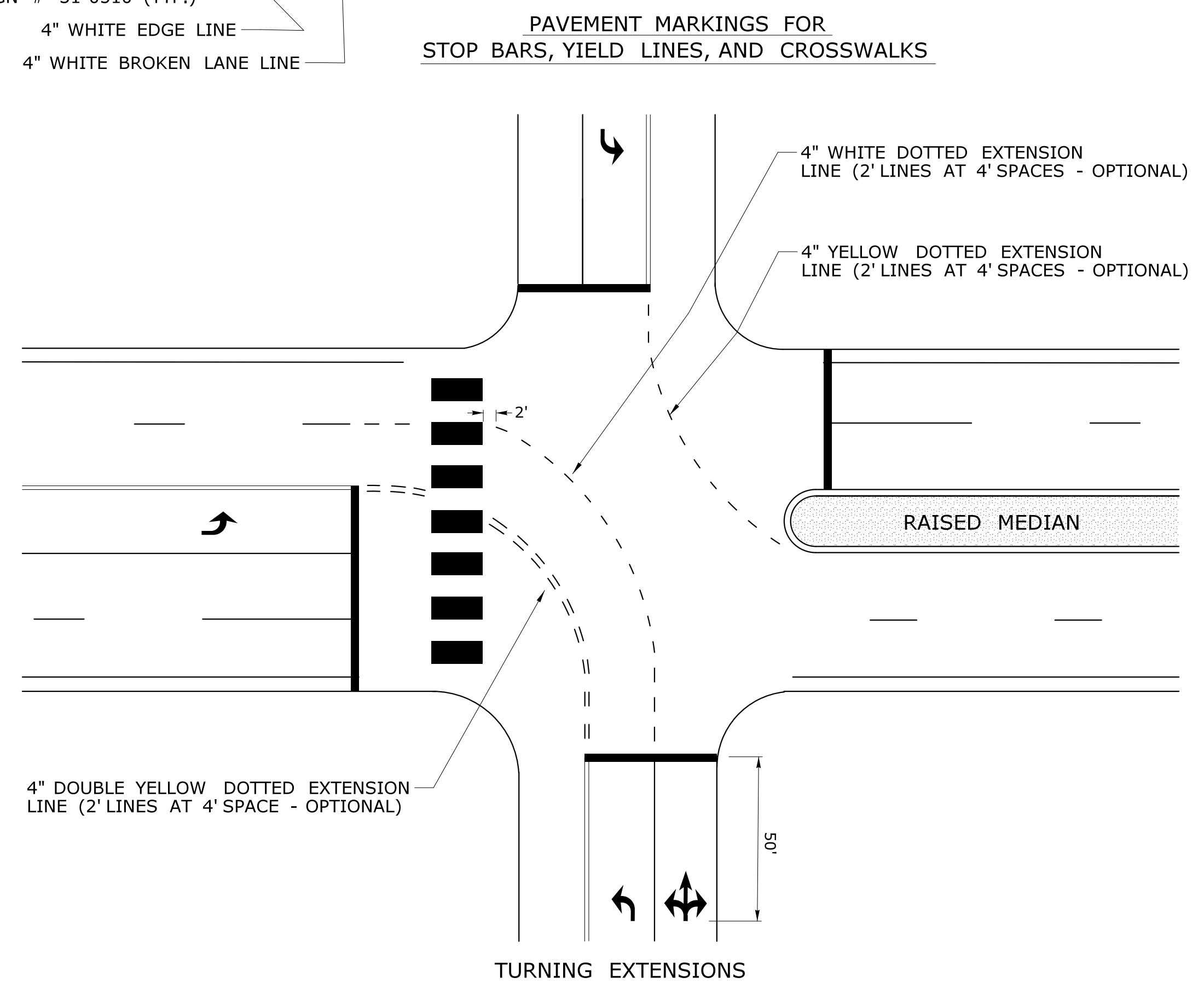
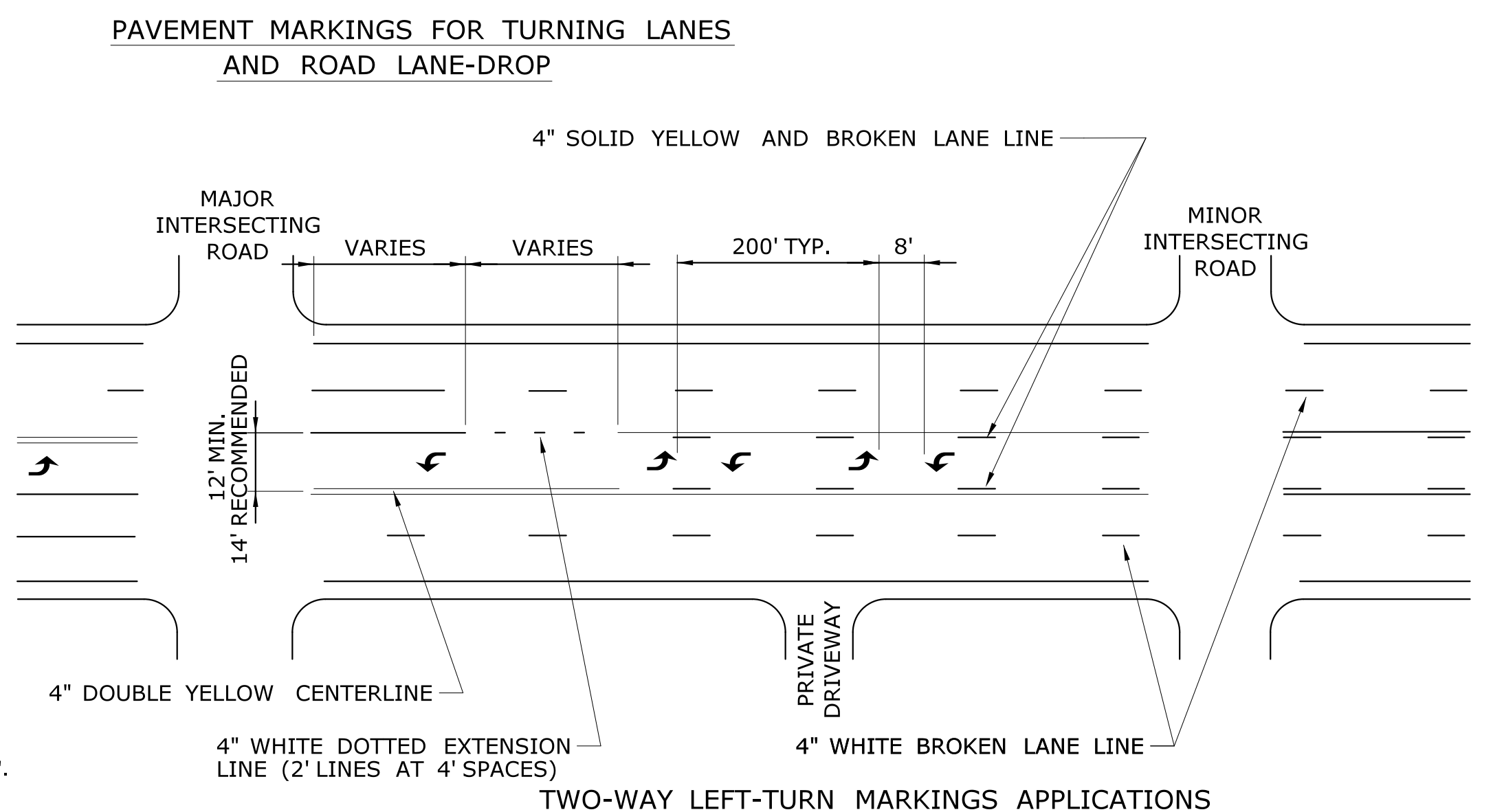
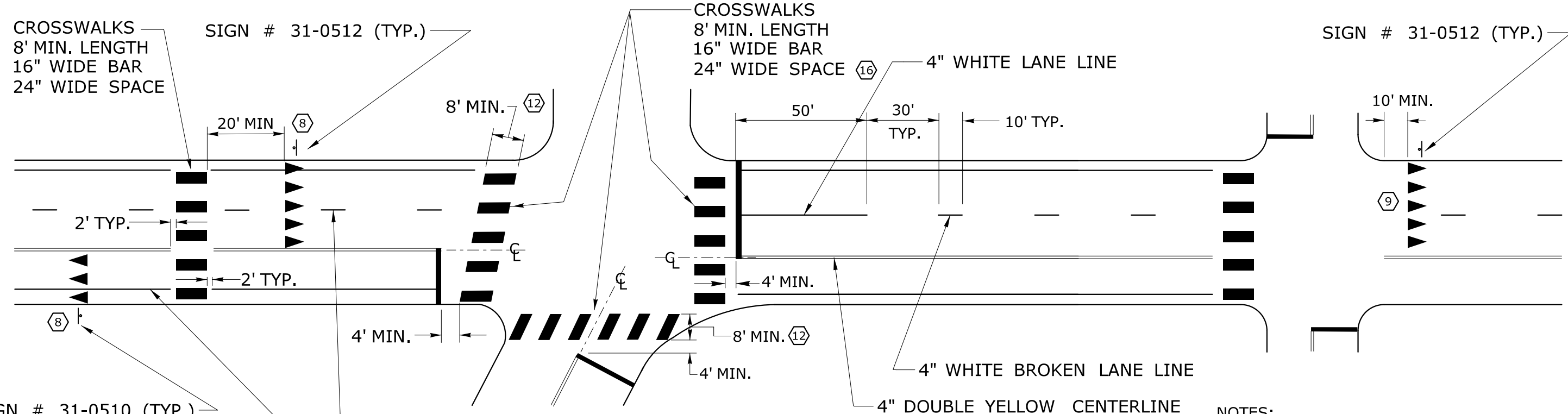
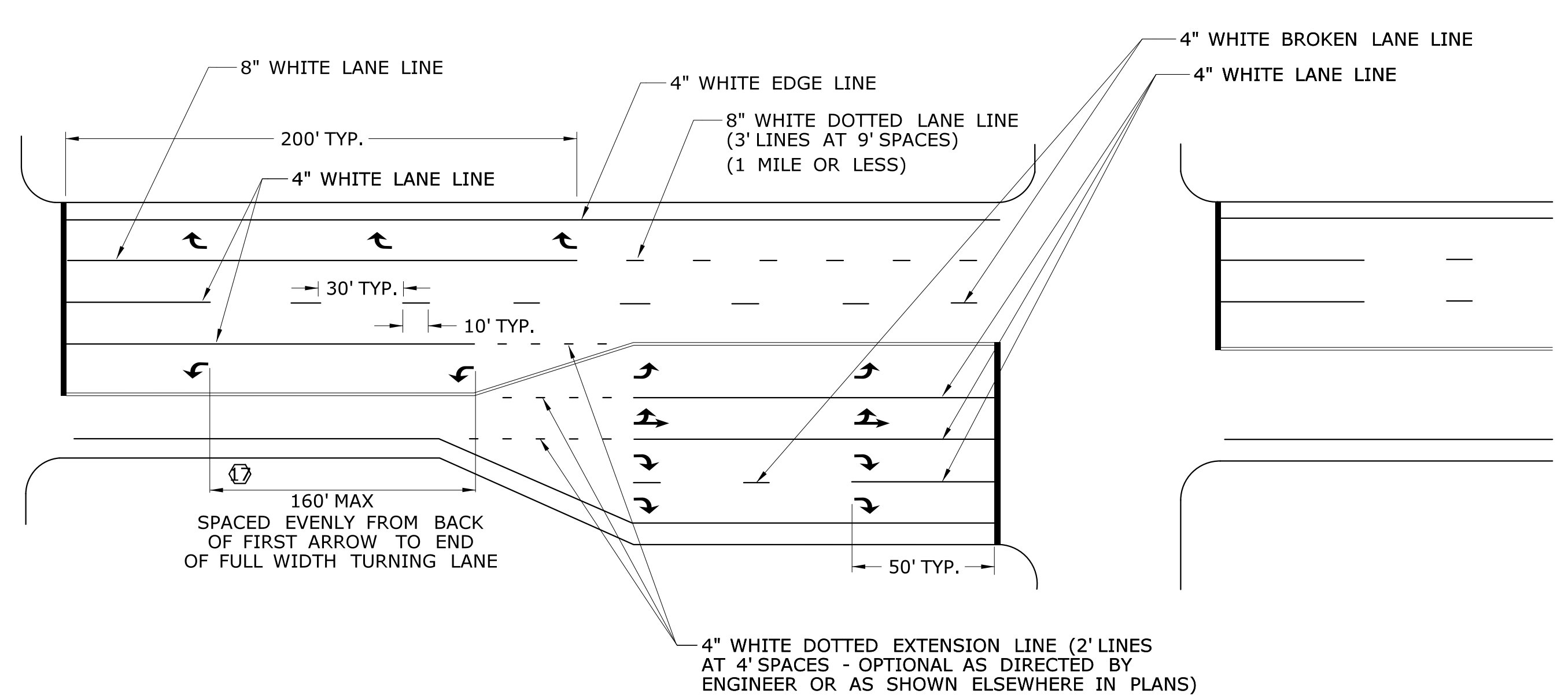
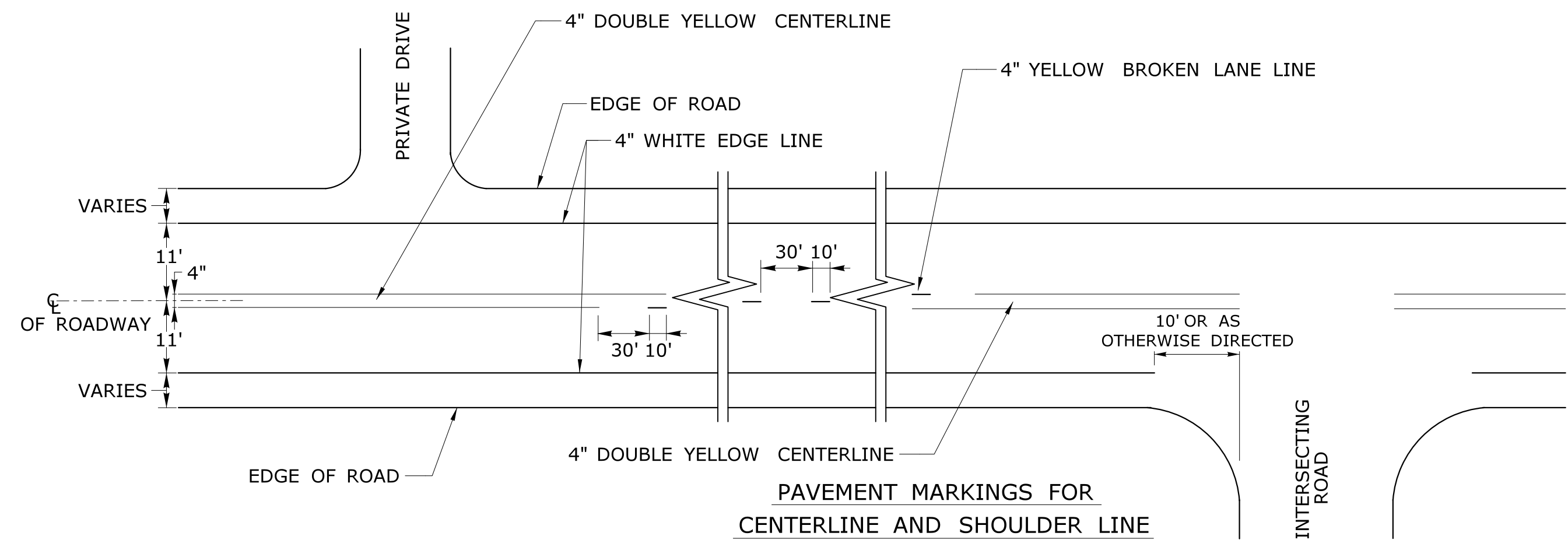


STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

SUBMITTED BY: Mark F. Makuch, P.E. 2017.06.07 07:30:30-04'00'  
 APPROVED BY: Mary E. Baker, P.E. 2017.06.13 15:28:14-04'00'  
 NAME/DATE/TIME: Gregory M. Dorosh, P.E. 2017.06.15 09:27:29-04'00'

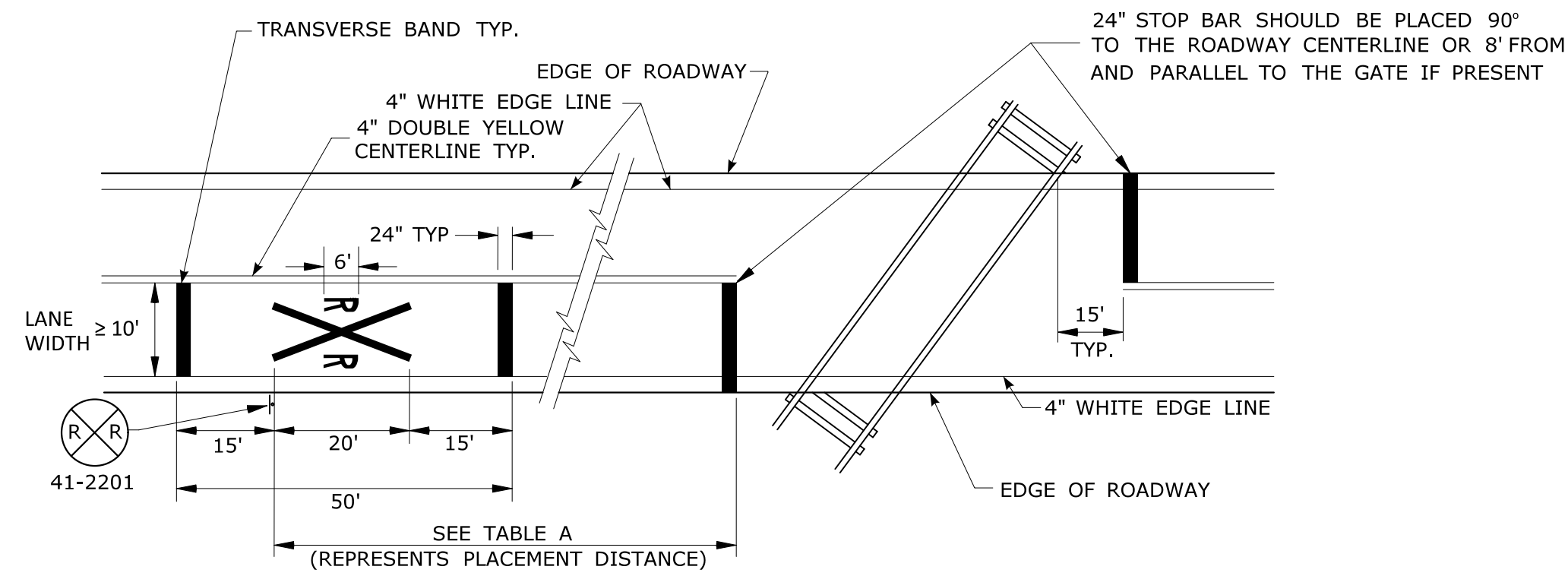
CTDOT STANDARD SHEET OFFICE OF ENGINEERING

STANDARD SHEET TITLE:	GUIDE SHEET NO.:
METAL SIGN POSTS AND SIGN MOUNTING DETAILS	TR-1208_02



- NOTES:**  
 STOP BARS AND YIELD LINES
- STOP BARS AND YIELD LINES SHALL BE WHITE.
  - STOP BARS SHALL BE 12" MIN. UNLESS OTHERWISE NOTED ON PLANS.
  - STOP BARS TO BE PLACED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF CROSSWALK AND SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY.
  - IN THE ABSENCE OF A MARKED CROSSWALK THE STOP BAR SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY, AT THE DESIRED STOPPING POINT AT LEAST 5' AND NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
  - THE STOP SIGN SHOULD BE PLACED IN LINE WITH THE STOP BAR. HOWEVER, IF THE STOP SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP BAR SHOULD BE PLACED AT THE STOPPING POINT.
  - FOR STOP BARS AT RAMPS SEE DETAILS "R", "S", "T", & "U" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210 07 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS EXIT RAMPS".
  - FOR YIELD LINE INSTALLATIONS, ONLY FULL TRIANGLES ARE TO BE INSTALLED.
  - MID-BLOCK CROSSWALKS ARE CROSSWALKS LOCATED MORE THAN 50 FEET FROM A SIGNALIZED OR UNSIGNALIZED INTERSECTION. YIELD LINES ASSOCIATED WITH MIDBLOCK CROSSWALKS SHALL BE INSTALLED AND SHOULD BE LOCATED 20 TO 50 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE OR AS DIRECTED BY THE ENGINEER.
  - WHERE A YIELD LINE EXISTS ON AN APPROACH TO A CROSSWALK, THE APPROPRIATE "YIELD TO PEDESTRIANS" SIGN IS REQUIRED.
  - FOR CROSSWALKS AT UNSIGNALIZED INTERSECTIONS WITH MINOR STREET STOP CONTROL, YIELD LINES SHALL BE INSTALLED ON MULTI-LANE APPROACHES, BUT NOT SINGLE LANE APPROACHES.
  - THE YIELD SIGN SHOULD BE PLACED IN LINE WITH A YIELD LINE. HOWEVER, IF THE YIELD SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO YIELD, THE YIELD LINE SHOULD BE PLACED AT THE YIELDING POINT.
- CROSSWALKS**
- CROSSWALK MARKINGS SHALL BE WHITE.
  - AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO  $\epsilon$  AND ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.
  - BARS SHOULD BE NO CLOSER THAN 1' FROM EDGE OF ROAD.
  - ONLY FULL LENGTH BARS ARE TO BE INSTALLED.
  - DECORATIVE CROSSWALKS SHALL BE BANDED FROM CURB TO CURB WITH A MINIMUM 12" WIDE WHITE TRANSVERSE LINE ALONG EACH EDGE.
  - 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.
- PAVEMENT MARKINGS FOR TURNING LANES**
- INSTALL AT LEAST TWO ARROWS PER LANE WHERE STORAGE LENGTH IS GREATER THAN 150 FEET.

TYPICAL RAILROAD GRADE CROSSING DETAIL (LANE WIDTH ≥ 10')



TYPICAL RAILROAD GRADE CROSSING DETAIL (LANE WIDTH < 10')

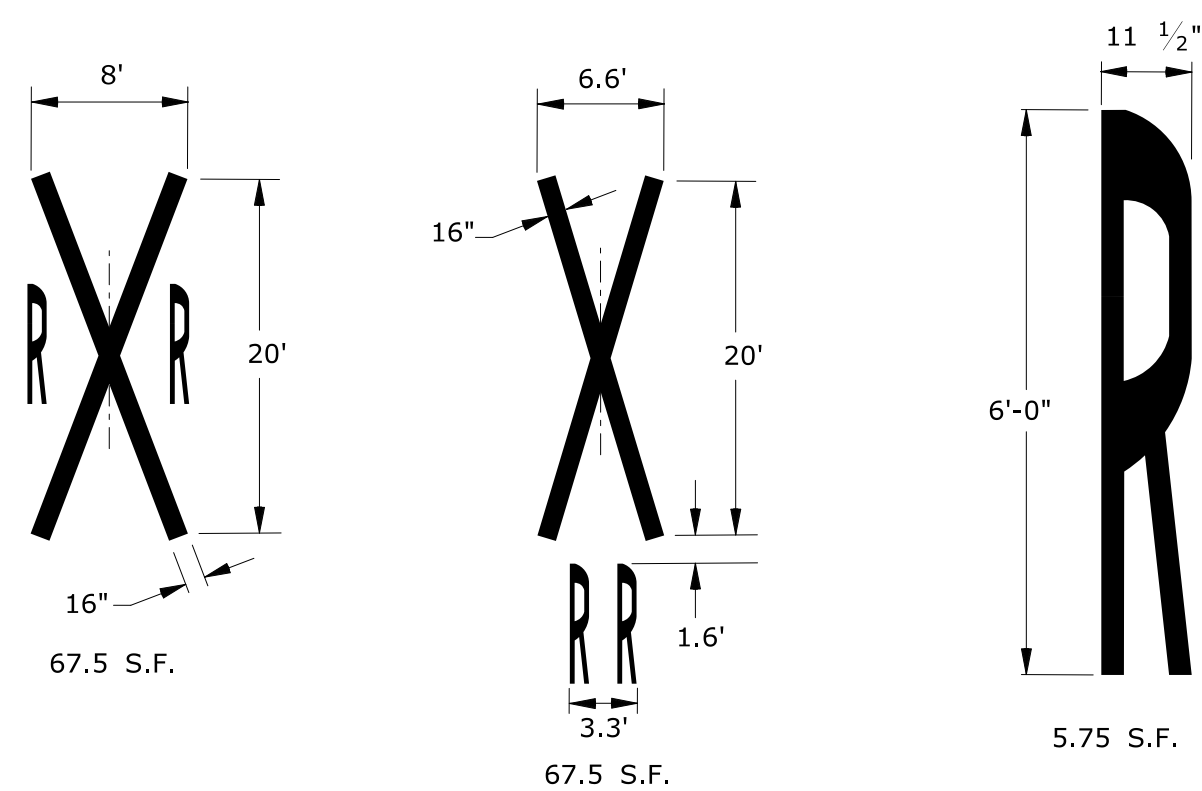
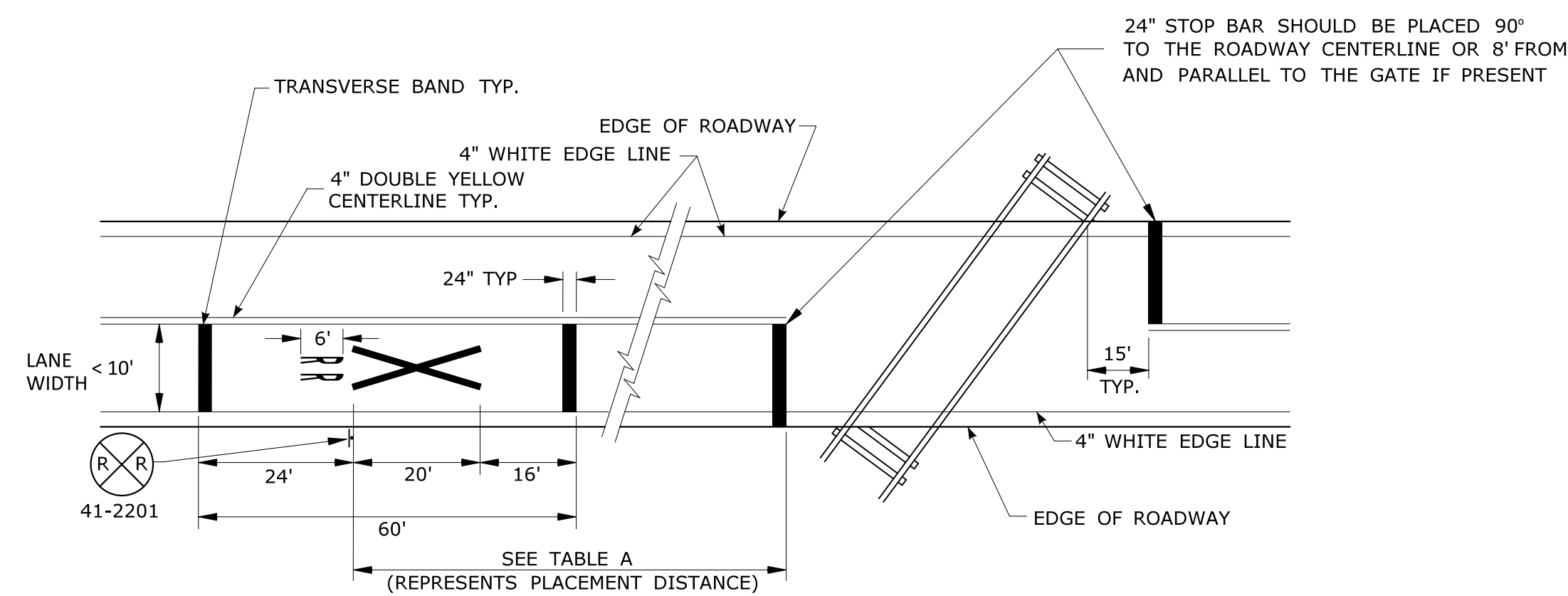


TABLE A	
POSTED OR 85 PERCENTILE SPEED M.P.H.	MINIMUM DISTANCE FT.
20	100
25	100
30	100
35	100
40	125
45	175
50	250
55	325
60	400
65	475

NOTES:

GENERAL:

1. AREA OF PAVEMENT MARKING SYMBOLS AS INDICATED IS APPROXIMATE.
2. REFER TO STANDARD SHEET TR-1210\_04 FOR PAVEMENT MARKING LINE DETAILS.

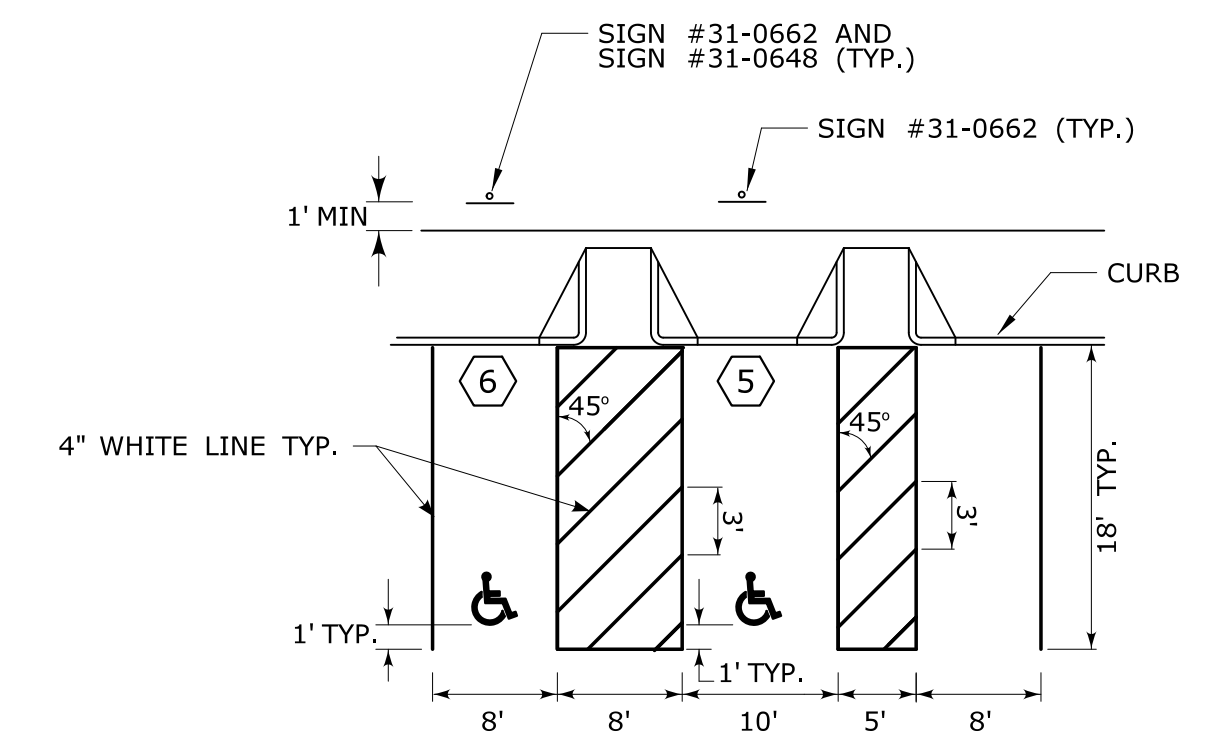
RAILROAD GRADE CROSSINGS:

3. RAILROAD MARKINGS SHALL BE WHITE.
4. ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS THE APPROACH LANES AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

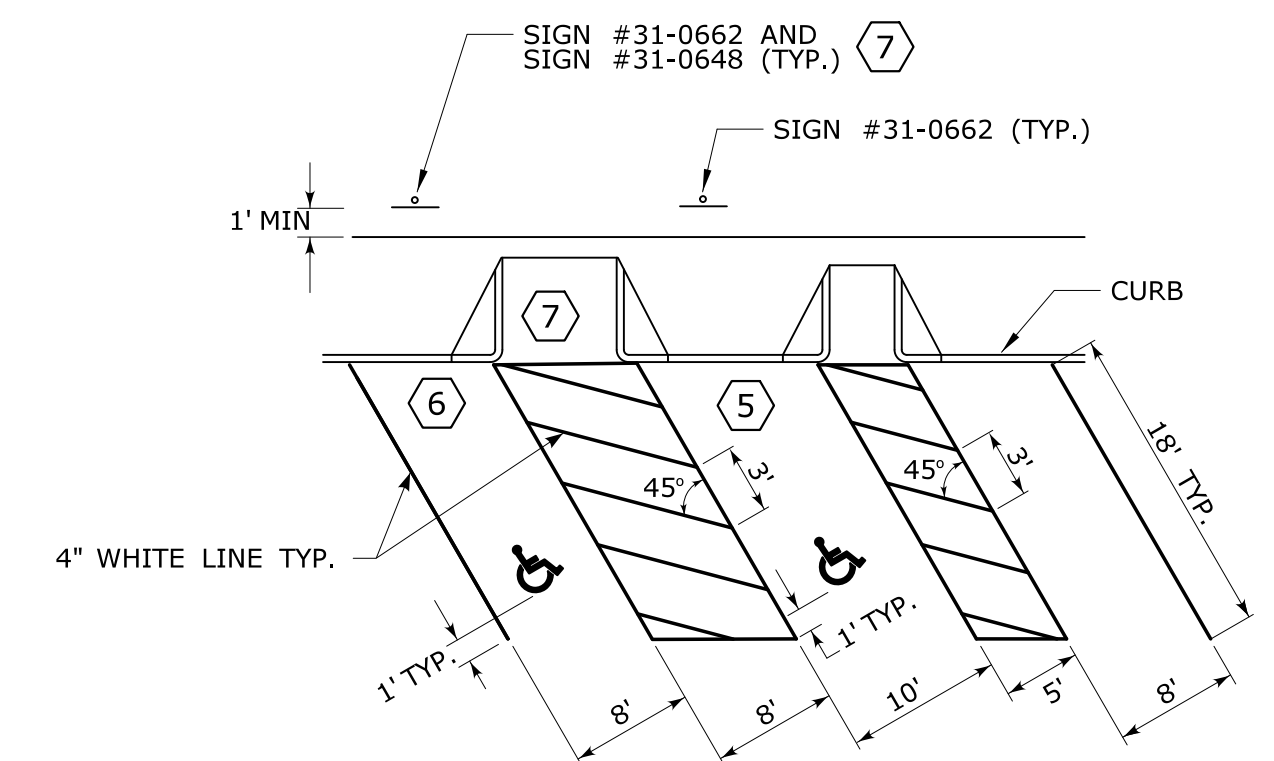
PARKING STALLS:

5. AUTOMOBILE ACCESSIBLE PARKING SPACES SHALL BE 15' WIDE INCLUDING 5' OF CROSSHATCH.
6. VAN ACCESSIBLE PARKING SPACES SHALL BE 16' WIDE INCLUDING 8' OF CROSSHATCH.
7. ACCESS AISLES FOR ANGLED VAN PARKING SPACES SHALL BE LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACE.
8. CROSS HATCHED ACCESS AISLES SHALL NOT BE SHARED BETWEEN PARKING SPACES.

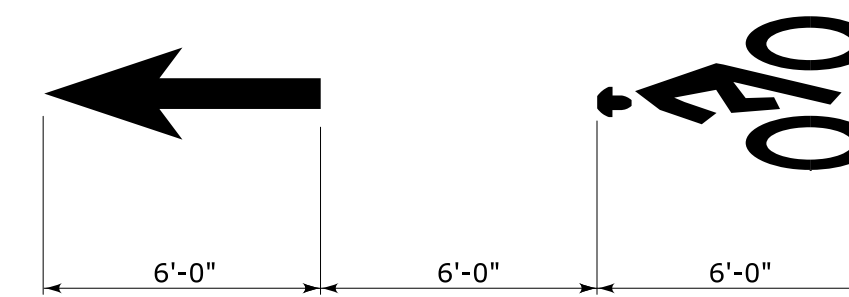
TYPICAL PERPENDICULAR PARKING STALLS DETAIL



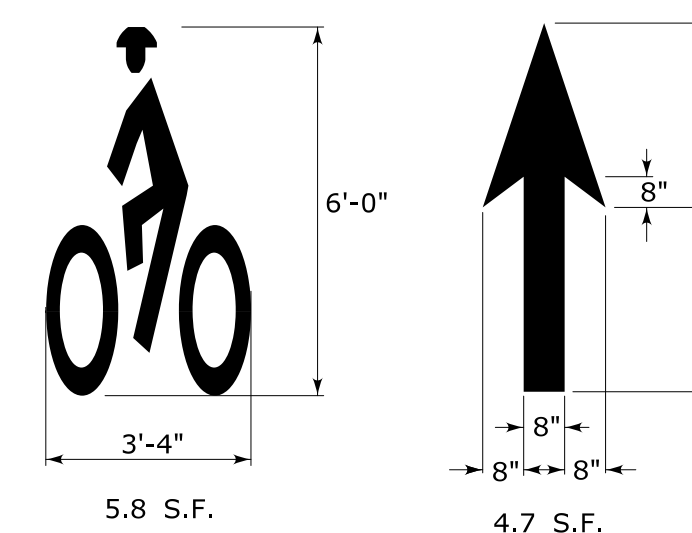
TYPICAL ANGLE PARKING STALLS DETAIL



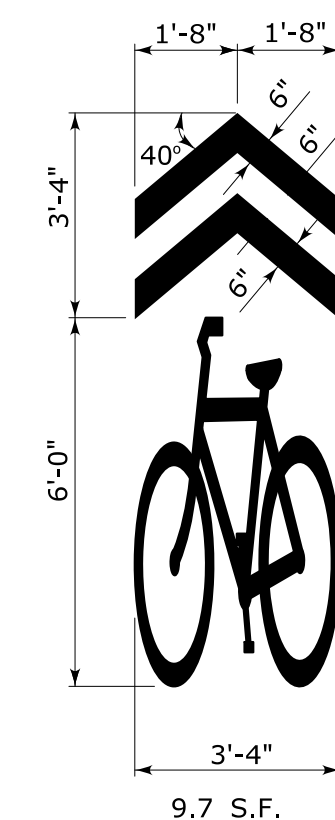
TYPICAL LONGITUDINAL SPACING



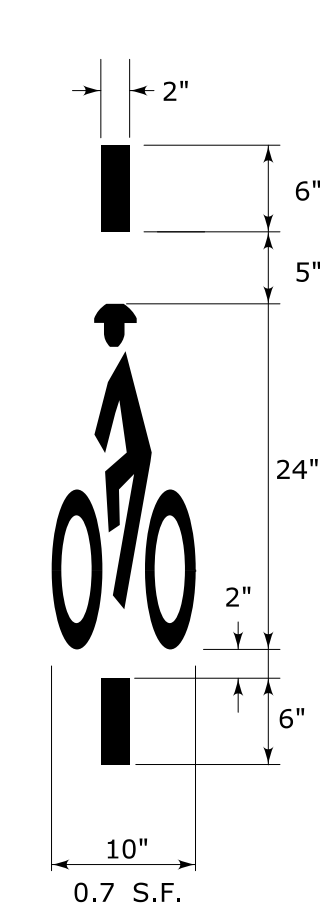
BICYCLE LANE SYMBOL MARKINGS



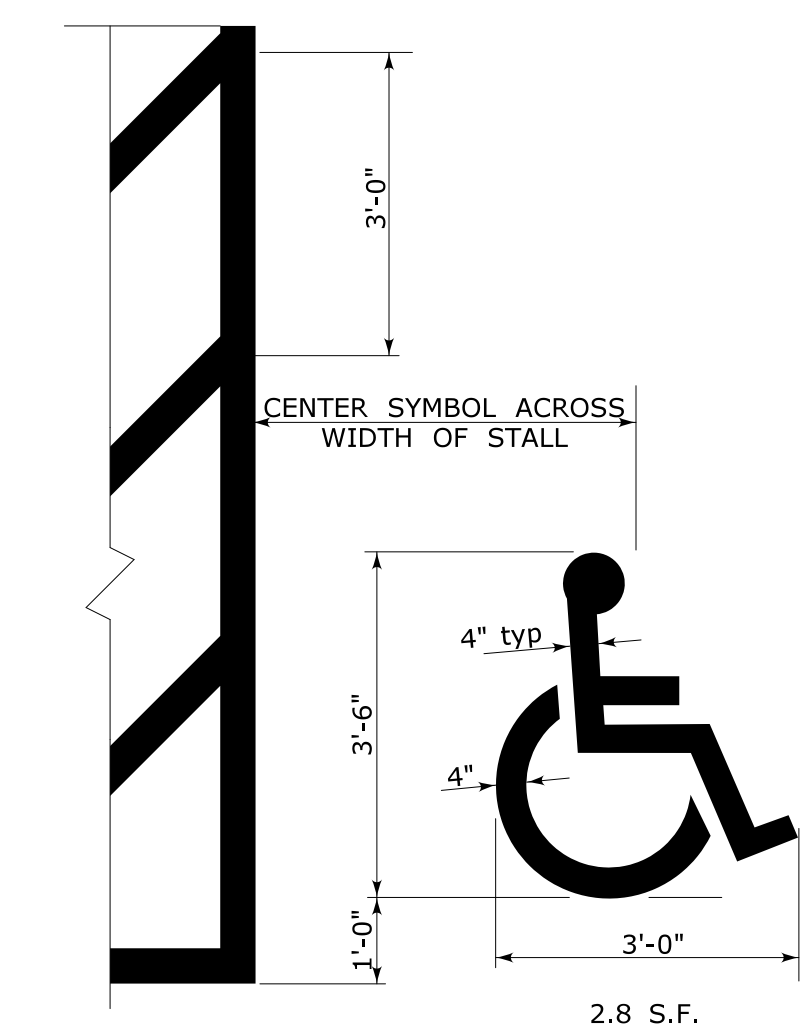
SHARED LANE SYMBOL MARKING



BICYCLE DETECTOR SYMBOL MARKING



ACCESSIBLE PARKING SPACE SYMBOL



REV.	DATE	REVISION DESCRIPTION

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NOT TO SCALE

Plotted Date: 4/3/2017

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

Mark F. Makuch, P.E.  
11-17-36-0400


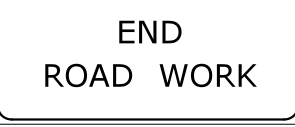



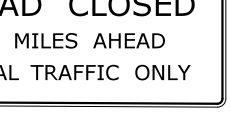
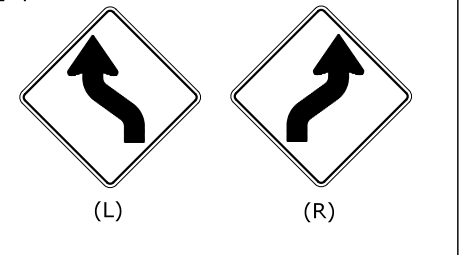
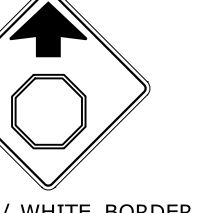

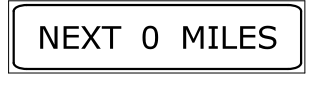

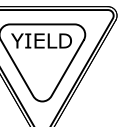

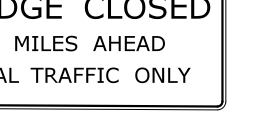
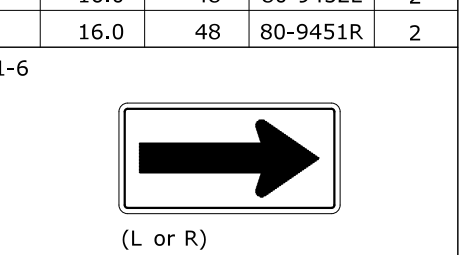
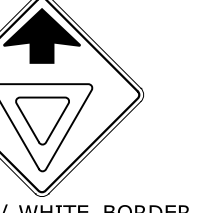






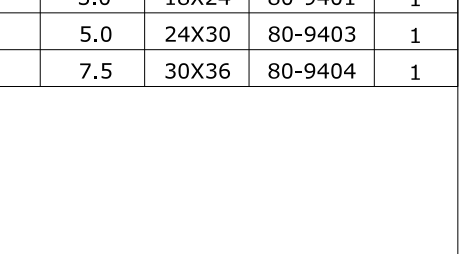

Gregory M. Dorosh, P.E.  
2017.04.20  
13/26/20-0400

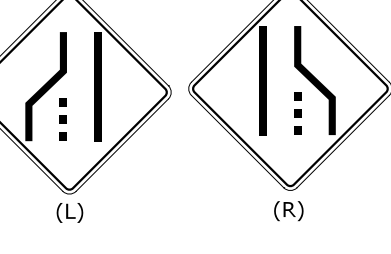













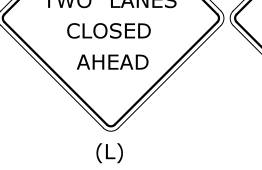
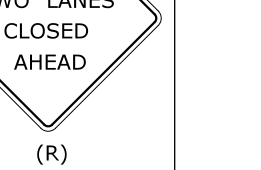

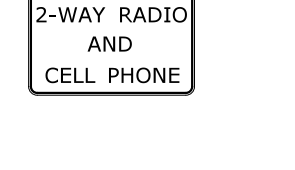

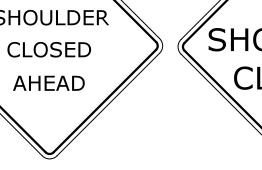








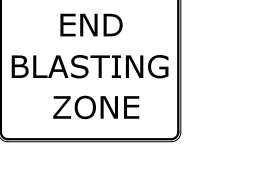
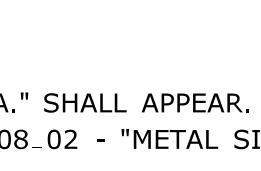
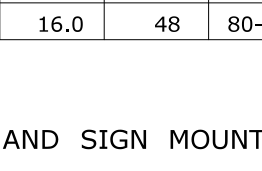
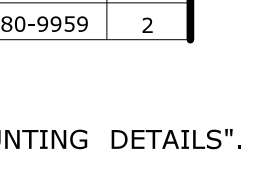
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CTDOT  
STANDARD SHEET  
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:  
**PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RAILROAD GRADE CROSSINGS**

STANDARD SHEET NO.:  
**TR-1210\_09**

E5 - SERIES				G20 - SERIES				M4 - SERIES				R1 - SERIES				R9 & R11 - SERIES				W1 - SERIES				W3 - SERIES																																				
 COPY & BORDER - WHITE BACKGROUND - GREEN				 VARIABLE MILEAGE				 VARIABLE ARROW				 COPY & BORDER - WHITE BACKGROUND - RED				 COPY & BORDER - BLACK BACKGROUND - WHITE				 VARIABLE MILEAGE COPY & BORDER - BLACK BACKGROUND - WHITE				 BOTH LANES SHIFT LEFT BOTH LANES SHIFT RIGHT AHEAD				 OCTAGON - RED W/ WHITE BORDER ARROW & BORDER - BLACK BACKGROUND - FLUORESCENT ORANGE																																
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																													
16.0	48	51-6147	2	8.0	48X24	80-9612	2	2.0	24X12	80-9707	1	5.0	30X24	80-9703	1	13.30	48	31-0552	2	3.75	30X18	80-9076	1	12.5	60X30	80-9077	2	9.0	36	80-9432L	1	16.0	48	80-9433L	2	25.0	60	80-9483L	2	9.0	36	80-9050	1	16.0	48	80-9051	2													
16 - SERIES  ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION				 VARIABLE MILEAGE				 VARIABLE ARROW				 COPY & BORDER - RED BACKGROUND - WHITE				 VARIABLE ARROW COPY & BORDER - BLACK BACKGROUND - WHITE				 VARIABLE MILEAGE COPY & BORDER - BLACK BACKGROUND - WHITE				 BOTH LANES SHIFT LEFT BOTH LANES SHIFT RIGHT AHEAD				 TRIANGLE - RED W/ WHITE BORDER ARROW & BORDER - BLACK BACKGROUND - FLUORESCENT ORANGE																																
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																					
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 ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION				 VARIABLE ARROW COPY & BORDER - WHITE BACKGROUND - BLUE				 VARIABLE ARROW				 COPY & BORDER - BLACK BACKGROUND - WHITE				 COPY & BORDER - BLACK BACKGROUND - WHITE				 COPY & BORDER - BLACK BACKGROUND - WHITE				 BOTH LANES SHIFT LEFT BOTH LANES SHIFT RIGHT AHEAD				 TOP CIRCLE - RED MIDDLE CIRCLE - YELLOW BOTTOM CIRCLE - GREEN COPY & BORDER - BLACK BACKGROUND - FLUORESCENT ORANGE																																
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																					
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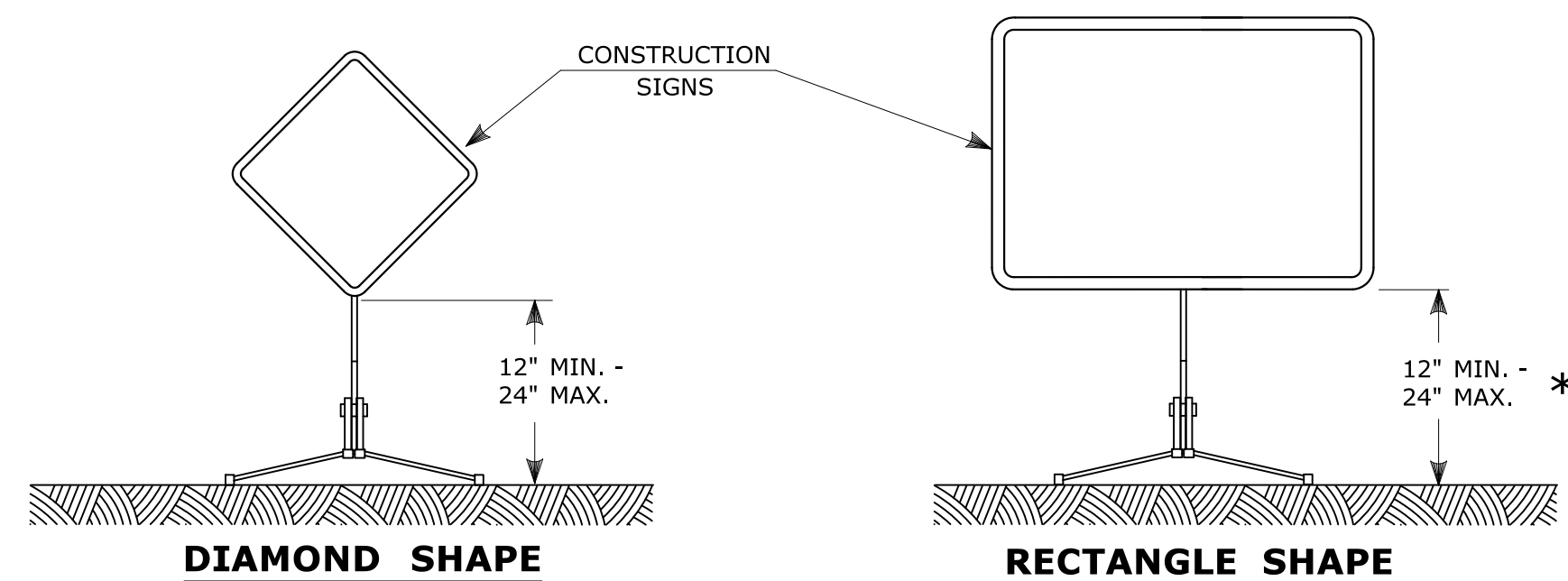
W4-W6 - SERIES				W8-W9 - SERIES				W13 - SERIES				W20 - SERIES				W21 - SERIES				W22 - SERIES				STOP-SLOW PADDLE																																													
 (L) (R)				 VARIABLE MILEAGE				 SUBPLATE VARIABLE SPEED				 VARIABLE MILEAGE				 (L)				 (R)				 COPY & BORDER - BLACK BACKGROUND - WHITE				 COPY & BORDER - BLACK BACKGROUND - WHITE				(VARIABLE LEGEND)				 SIDE A BACKGROUND - RED COPY & BORDER - WHITE				 SIDE B BACKGROUND - ORANGE COPY & BORDER - BLACK PLAIN																													
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																														
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 (L) (R)				 VARIABLE MILEAGE				 VARIABLE SPEED				 VARIABLE DISTANCE				 (L)				 (R)				 COPY & BORDER - BLACK BACKGROUND - WHITE				 COPY & BORDER - BLACK BACKGROUND - WHITE				 BLANK OR VARIABLE LEGEND				 (1)				 (2)																													
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																														
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 (L)				 (R)				 VARIABLE SPEED				 VARIABLE DISTANCE				 (L)				 (R)				 COPY & BORDER - BLACK BACKGROUND - WHITE				 COPY & BORDER - BLACK BACKGROUND - WHITE				 BLANK OR VARIABLE LEGEND				 (1)				 (2)																													
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																														
16.0	48	80-9910L	2	16.0	48	80-9911R	2	9.0	36	80-9520	1	9.0	36	80-9805	1	16.0	48	80-9848	2	3.75	30X18	80-9871		2.5	30X12	80-9872		10.5	42X36	80-9621	2	(1)	16.0	48	80-9957	2	(2)	16.0	48	80-9959	2	16.0	48	80-9912	2	9.0	36	80-9846	2	4.5	36X18	80-9873		16.0	48	80-9926	2												

W16 - SERIES				W20 - SERIES				W21 - SERIES				W22 - SERIES																			
 COPY & BORDER - BLACK BACKGROUND - ORANGE				 VARIABLE MILEAGE				 (L)				 (R)				 VARIABLE MILEAGE															
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
2.0	24X12	80-9049		9.0	36	80-9834	1	16.0	48	80-9846	2	16.0	48	80-9849	2	2.5	30X12	80-9872		4.5	36X18	80-9873		16.0	48	80-9927	2				

NOTES:  
 1. R1-SERIES SIGN THE LEGEND "O.S.T.A." SHALL APPEAR.  
 2. POSTS - SEE STANDARD SHEET TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS".  
 3. POSTS SHALL BE 4 LBS./FT.  
 4. ALL POSTS NOTED ARE FOR LONG TERM INSTALLATION. SEE STANDARD SHEET TR-1208.02.  
 5. FOR TEMPORARY SUPPORTS SEE STANDARD SHEET TR-1220.02 - "CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES".  
 6. FOR SPECIFIC SIGN DESIGN, CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERCTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.  
 7. ALL CONSTRUCTION SIGNS TO BE PAID FOR UNDER THE CONSTRUCTION SIGNS ITEM IN THE CONTRACT.  
 8. MATERIALS & COLORS SHALL CONFORM TO STATE SPECIFICATIONS.

MATERIALS:  
 SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES. ALUMINUM THICKNESS FOR POST MOUNTED SIGNS SHALL BE .100" EXCEPT SIGN #S. 80-1605, 80-9914, 80-9815, 80-9728, 80-9519, & 51-6147 (L OR R) WHICH SHALL BE .125", PLYWOOD THICKNESS FOR POST MOUNTED SIGNS SHALL BE 1/2" EXTERIOR GRADE A-C OR BETTER. SIGN BLANKS SHALL HAVE ONE COAT OF PRIMER PAINT PRIOR TO APPLICATION OF RETROREFLECTIVE SHEETING & COPY.

COLORS:  
 BACKGROUND - FLUORESCENT ORANGE - EXCEPT AS NOTED.  
 LEGEND - BLACK - EXCEPT AS NOTED.  
 ALL SIGNS WITH FLUORESCENT ORANGE BACKGROUND TO USE TYPE VIII RETROREFLECTIVE SHEETING.  
 ALL OTHER SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

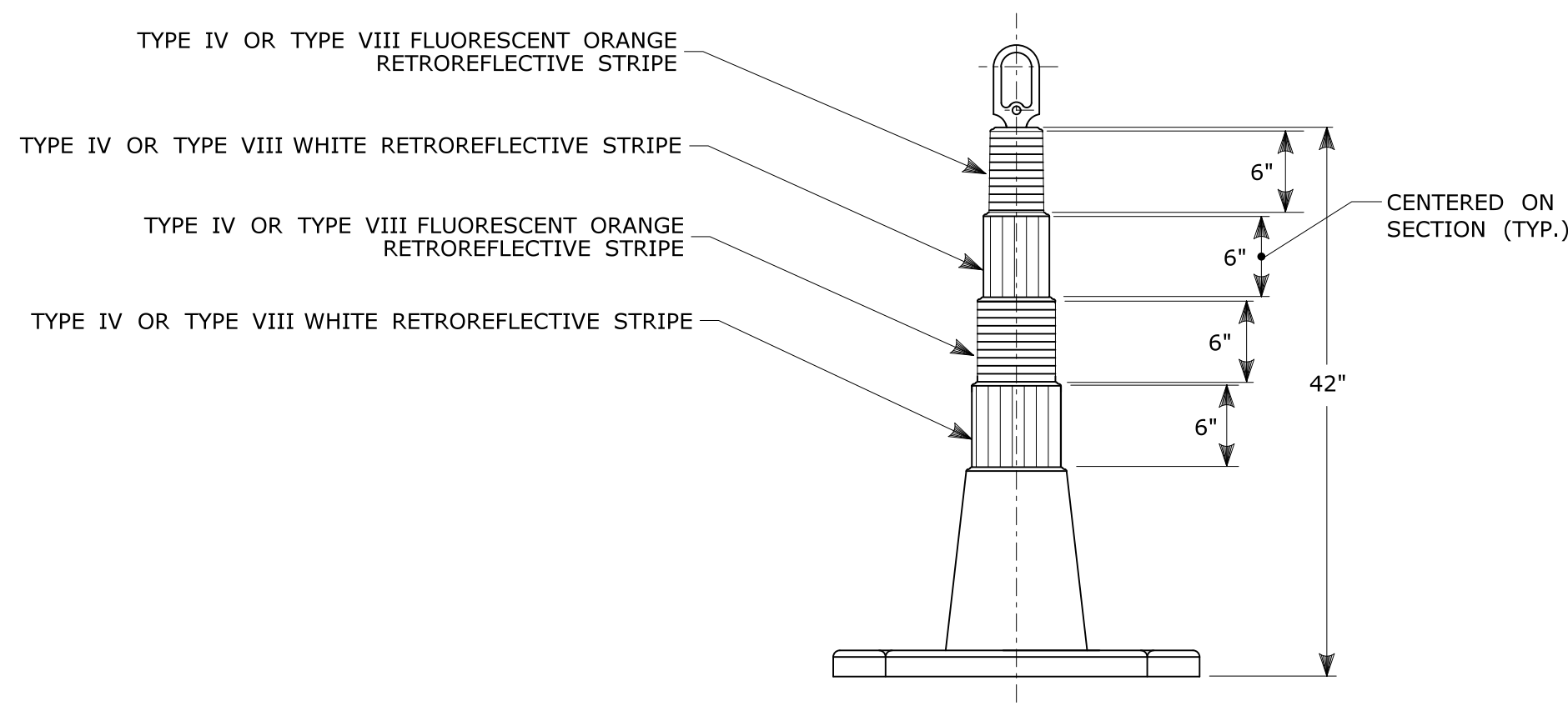


**PORTABLE CONSTRUCTION SIGNS**

NOTES FOR PORTABLE SIGN SUPPORTS:

- SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
- PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220.01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

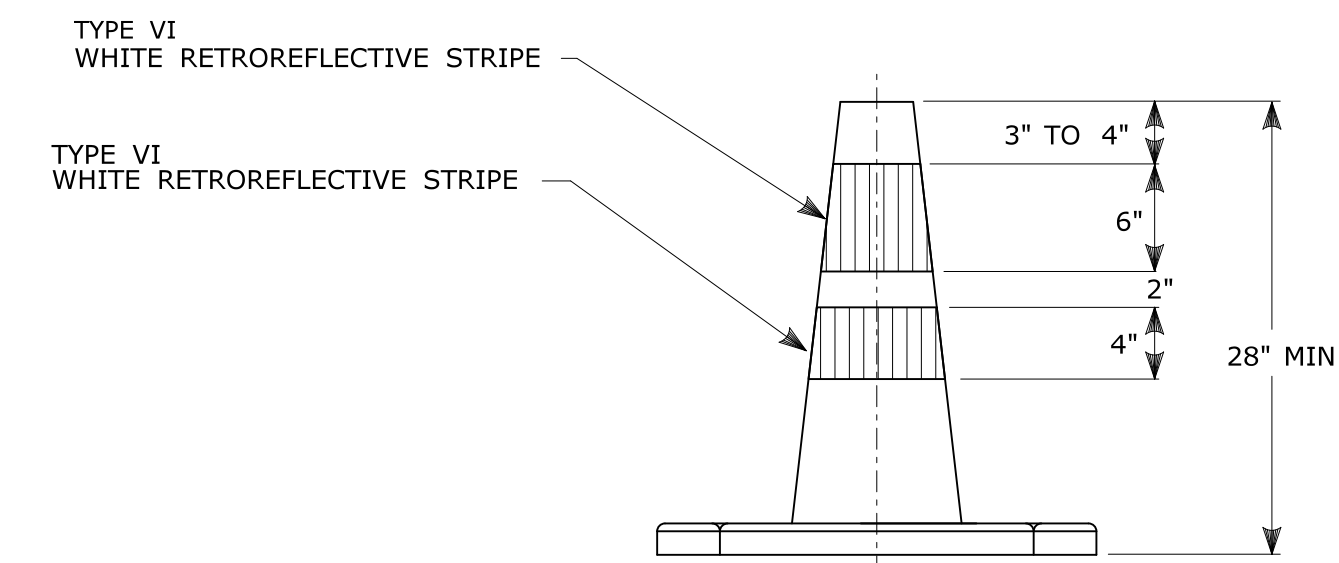
\* FOR E5-1 (EXIT SIGNS) USE MIN 48".



**42" TRAFFIC CONE**

NOTES:

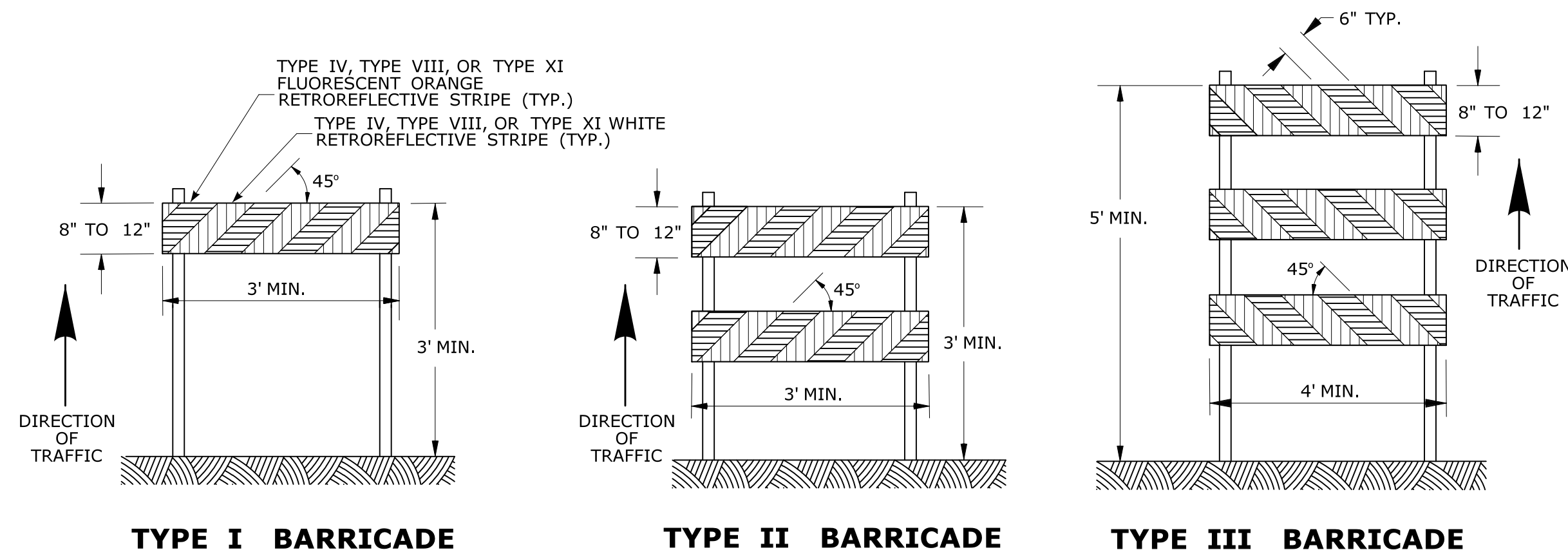
- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



**TRAFFIC CONE**

NOTES:

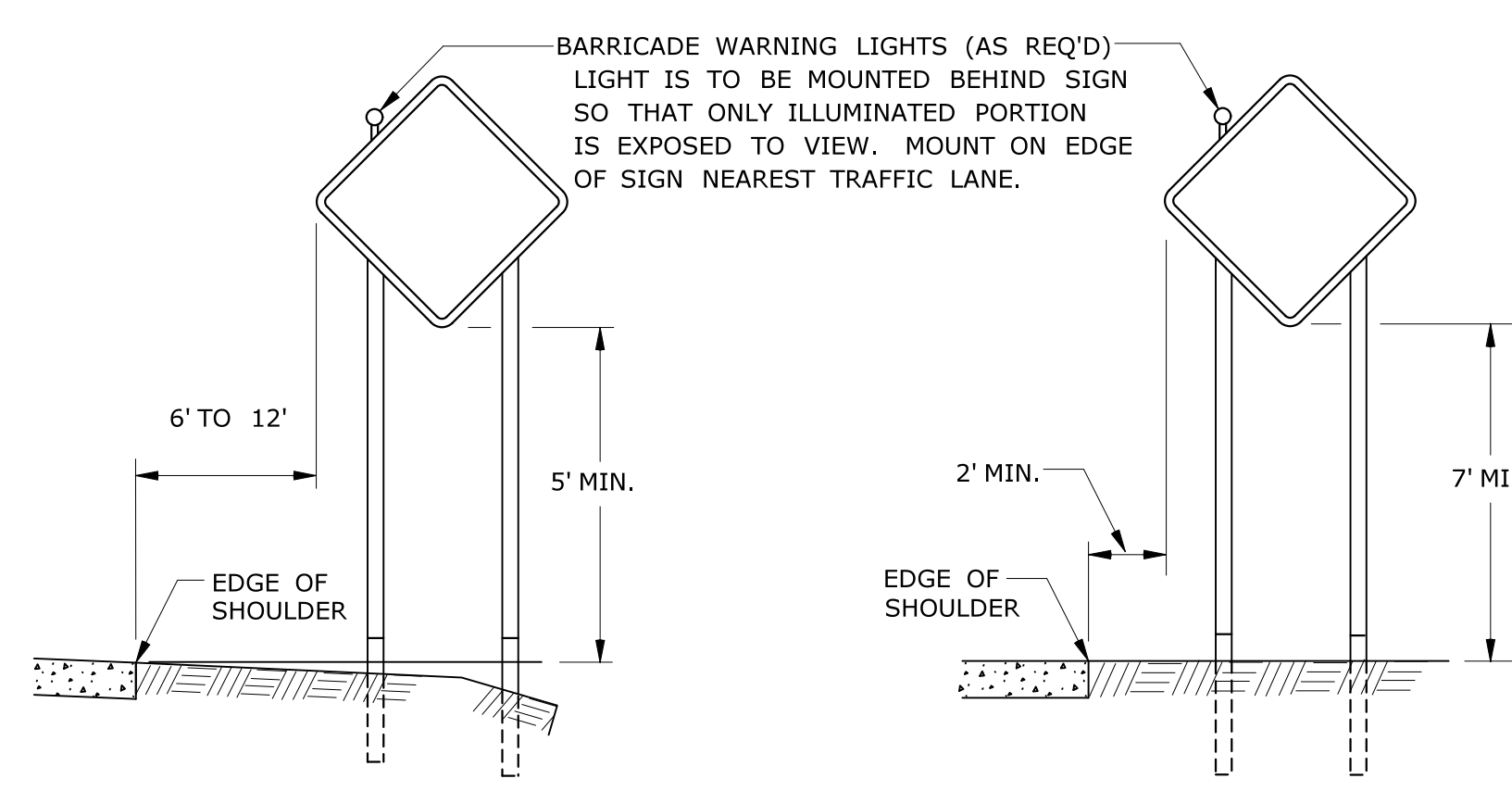
- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



**CONSTRUCTION BARRICADES**

NOTES:

- CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE FLUORESCENT ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
- SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.



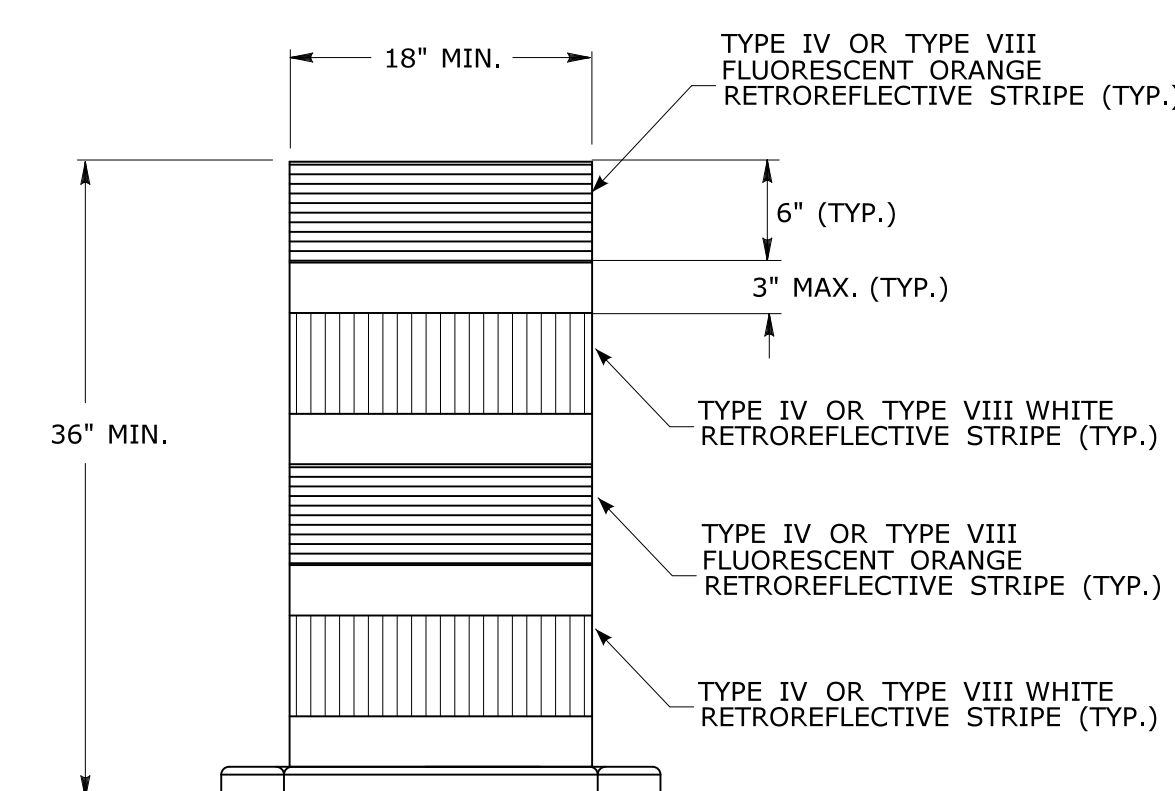
**RURAL AREA**

**URBAN AREA**

**PLACEMENT OF CONSTRUCTION SIGNS  
TYPICAL LONG TERM INSTALLATION**

NOTES:

- SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.  
REFER TO STANDARD SHEETS:  
TR-1208.01 - "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS."  
TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."



**TRAFFIC DRUM  
FRONT VIEW**

NOTES:

- TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		<p><b>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</b></p>	SUBMITTED BY: <i>Mark Makuch</i> NAME/DATE/TIME: Mark F. Makuch, P.E. 2018.08.17 09:12:43-04'00' APPROVED BY: <i>YFC</i> NAME/DATE/TIME: Mark F. Carfino, P.E. 2018.08.21 07:49:51-04'00'	<b>CTDOT STANDARD SHEET OFFICE OF ENGINEERING</b>	STANDARD SHEET TITLE: <b>CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES</b>	STANDARD SHEET NO.: <b>TR-1220_02</b>
3 8-2018 UPDATED SHEETING TYPE AND COLOR. 2 8-2015 UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION. 1 2-2011 MINOR REVISIONS.	NOT TO SCALE Plotted Date: 8/10/2018 Filename: TR-1220.02.3.2018.dgn Model: TR-1220.02					