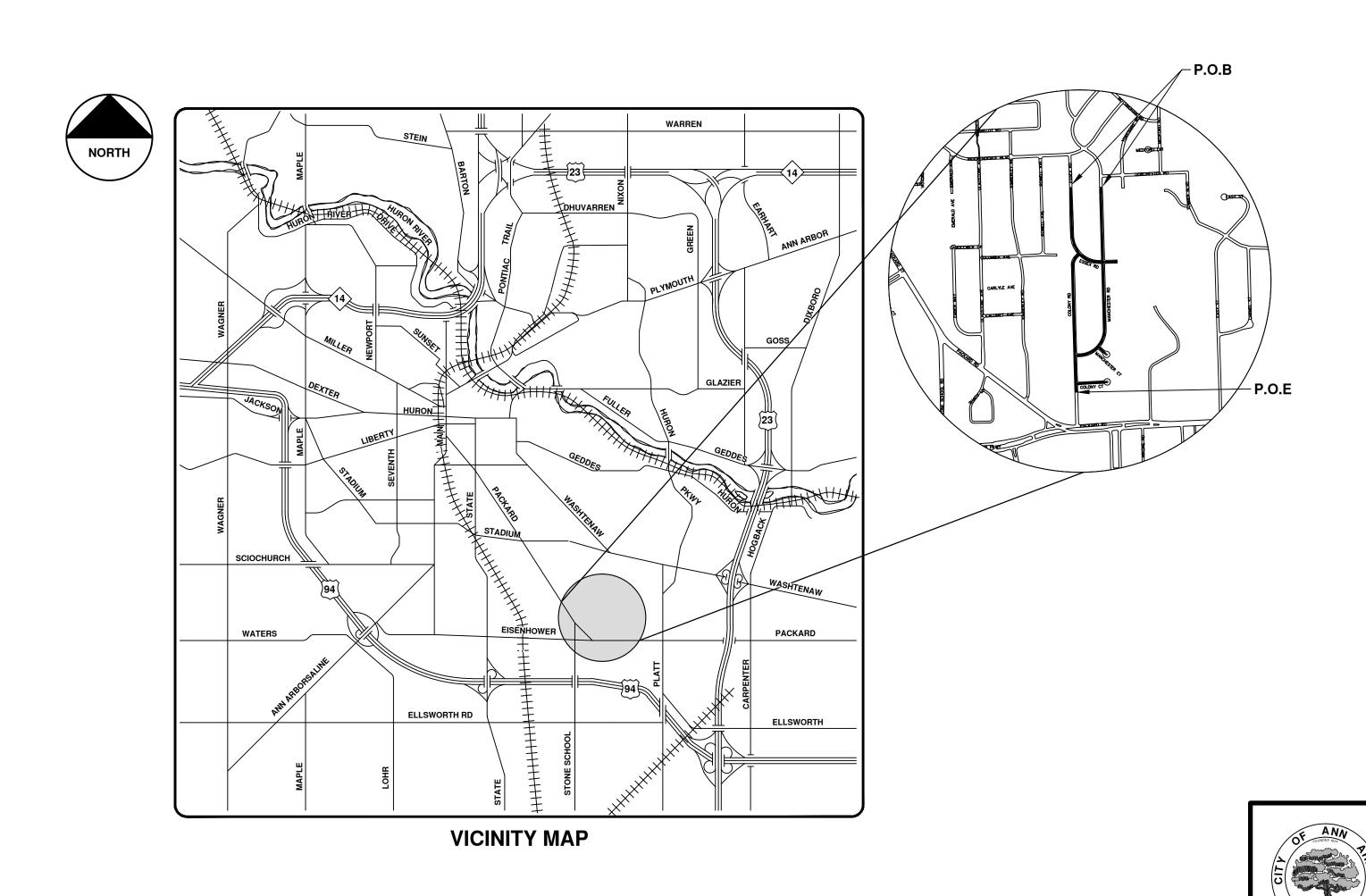


CITY OF ANN ARBOR PROJECT MANAGEMENT

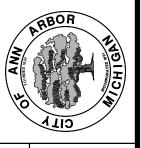
COLONY RD, ESSEX RD, AND MANCHESTER RD CONCRETE PAVEMENT REPAIRS

BID No. 4379, FILE No. 2015024

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STANDARD SPECIFICATIONS FOR CONSTRUCTION (INCLUDING REFERENCED M.D.O.T. PUBLICATIONS) AND THIS PROJECT'S CONTRACT DOCUMENTS.





3/30/2015

PROJECT MANAGEMENT SERVICE UNIT

PREPARED UNDER THE SUPERVISION OF

DAVID ARTHUR DYKMAN, P.E. - MI LICÉNSE No. 52912

PROJECT MANAGER

CONSTRUCTION NOTES:

- 1. Driveways and entrances to buildings, real property, and the like shall not be blocked unless approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.
- 2. The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
- 3. Location and depth of utilities as depicted on the plans is approximate and shown according to the best information available. It is the Contractor's responsibility to excavate ahead and adjust depth of conflict utilities accordingly. Any damage to utilities is the Contractor's responsibility to avoid and/or repair as necessary.
- 4. "No Parking" signs shall be installed by the Contractor at locations as approved or directed by the Engineer. All signs shall be installed in accordance with the detailed specification.
- 5. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
- 6. All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work
- 7. The location of material stock piles and on—site staging areas to be approved by the Engineer.
- 8. All structures within concrete pavement repairs areas shall receive new castings as directed by the Engineer, as specified on the standard casting schedule. The existing castings are the property of the City of Ann Arbor. The Contractor shall deliver to City of Ann Arbor Field Operations and Maintenance Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
- 9. Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or
- 10. Where sewer pipes of different sizes or materials are joined, Fernco flexible couplings with stainless steel shear rings shall be used. The Contractor's purchase price for these devices, including shipping, shall be paid as an extra. Prior to payment for this item, the Contractor shall submit receipts for the Engineer's review and approval. All other costs associated with the installation of these devices shall be included in the payment for the sewer.
- 11. Existing street name, guide, and regulatory signs, and mailboxes which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer. This work will not be paid for separately, but shall be included in "General Conditions."

SOIL EROSION & SEDIMENT CONTROL GENERAL NOTES:

NOTIFY THE CITY OF ANN ARBOR SOIL EROSION CONTROL OFFICE 48 HOURS PRIOR TO BEGINNING WORK ON THE PROJECT. PHONE: 734-794-6265.

- 1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN SOIL EROSION CONTROL MEASURES AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER.
- 2. ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, CITY ORDINANCE CHAPTER 63, CITY OF ANN ARBOR STANDARDS DIVISION VII, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 3. DAILY, OR AFTER ANY STORM EVENT, INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE ENGINEER TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY, AND WITHOUT ADDITIONAL COST TO THE CITY OF ANN ARBOR.
- 4. EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, ROADWAYS OR WATERWAYS.
- 5. ALL MUD/DIRT TRACKED ONTO ROADWAYS FROM THE SITE DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. IF SO ORDERED, THE CONTRACTOR SHALL PROVIDE AND OPERATE A VACUUM-TYPE STREET SWEEPER, AT NO ADDITIONAL COST TO THE CITY OF ANN ARBOR, WITHIN FOUR (4) HOURS OF BEING SO ORDERED.
- 6. RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF TOPSOIL, SEED, FERTILIZER AND MULCH AND/OR SOD SHALL BE PERFORMED WITHIN FIVE (5) DAYS OF THE COMPLETION OF FINAL GRADE.
- 7. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.
- 8. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
- 9. PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR DUST PALLATIVE AS REQUIRED.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME MEASURES UPON AUTHORIZED COMPLETION OF THE PROJECT. FINAL COMPLETION OF PROJECT WILL NOT BE AUTHORIZED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED.
- 11. THE CONTRACTOR SHALL NOT GRADE INTO ADJACENT PROPERTIES. SILT AND PROTECTIVE FENCE SHALL BE INSTALLED AND MAINTAINED TO PREVENT GRADING, EROSION AND SEDIMENTATION INTO THE ADJACENT PROPERTIES.
- 12. TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

SEQUENCE OF EROSION CONTROL MEASURES:

1. THE CONTRACTOR IS TO SUBMIT TO THE ENGINEER, A SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION CONTROL MEASURES FOR REVIEW, COMMENT AND APPROVAL. THIS SCHEDULE IS TO INCLUDE INSPECTION AND REPAIR OF ALL TEMPORARY EROSION CONTROL MEASURES DAILY AND WITHIN 24 HOURS OF A STORM EVENT.

SAMPLE SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS: 1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, AND INLET FILTERS ON EXISTING DRAINAGE FEATURES

- PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- 1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
- 1.3. INSTALL WATER MAINS, STORM AND SANITARY SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF NEW DRAINAGE INLETS.
- 1.4. PERFORM MACHINE GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES, ETC.).
- 1.5. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.
- 1.6. COMPLETE ALL GRADING AND FINE GRADING.
- 1.7. TEMPORARY SEED AND INSTALL EROSION CONTROL BLANKET IN ALL DISTURBED AREAS.
- 1.8. CLEAN OUT STORM SEWER SYSTEMS.
- 1.9. REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES UPON FINAL INSPECTION AND APPROVAL BY
- 1.10. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.

THIS SEQUENCE IS FOR INFORMATION ONLY. IT IS INTENDED TO SHOW THE SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THEIR OWN DETAILED CONSTRUCTION SEQUENCE AND SCHEDULE TO THE ENGINEER FOR REVIEW, COMMENT, AND APPROVAL.

TEMPORARY SEEDING:

- 1. SEED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.
- 2. ANY DISTURBED AREA NOT PAVED, SEEDED, MULCHED, SODDED OR BUILT UPON BY NOVEMBER 15TH OR JUNE 30TH IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

TREE PROTECTION

 $^{-1}\cdot$ Contractor shall not store or place equipment and/or materials inside drip line of any city tree. MECHANICAL DAMAGE TO CITY OWNED TREES (I.E. BARK DAMAGE, BRANCH BREAKAGE) IS NOT PERMITTED CONTRACTOR IS RESPONSIBLE FOR PROPERLY PRUNING TREES TO PREVENT DAMAGE. IF BRANCHES GREATER THAN 2" IN DIAMETER REQUIRE PRUNING, CONTRACTOR TO CONTACT FORESTRY FOR CONSULTATION AND EVALUATION AT (734) 794-6350. NO ROOTS OF CITY-OWNED TREES GREATER THAN 2 INCHES IN DIAMETER ARE TO BE CUT. IF CONTRACTOR ENCOUNTERS CITY-OWNED TREES WITH ROOTS GREATER THAN 2 INCHES IN DIAMETER THAT THEY DETERMINE NEED TO BE CUT, CONTACT FORESTRY IMMEDIATELY FOR EVALUATION. ALL TRENCHING AND BORE PITS OF ANY KIND SHALL BE CLEAR OF TREE DRIP LINES. IF ANY CITY-OWNED STREET TREES ARE DAMAGED BY THIS WORK, THE CONTRACTOR MUST CONTACT FORESTRY AS SOON AS POSSIBLE SO THAT THE DAMAGE CAN BE ASSESSED. CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH DAMAGE REMEDIATION.

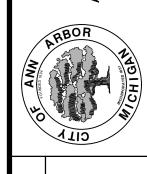
ф+	FIRE HYDRANT	w	WATER MAIN
ı	GATE VALVE IN BOX		STORM SEWER
8	GATE VALVE IN WELL	s	SANITARY SEWER
(w)	STOP BOX		GAS MAIN
w	WATER VAULT	owo	ELECTRICAL OVER HEAD
@	WELL		ELECTRICAL UNDER GROUND
	CATCH BASIN (SQ)		BOUNDARY
#	CATCH BASIN (RD)	_//////////////	BUILDING
0	STORM MANHOLE		CENTERLINE OF DITCH
	NON-CURB CATCH BASIN (SQ)		CENTERLINE/CROWN OF ROA
0	SANITARY MANHOLE		EDGE OF WATER
0	CLEAN-OUT	//////	FENCE
•	POST	:::	GRA VEL
ф	PEDESTRIAN SIGNAL		STONE WALL
þ	SIGN		R.O.W.
	HAND HOLE		TREELINE
۵	ORNAMENTAL LIGHT	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	WETLAND
짞	FLOOD LIGHT		
?	UNKNOWN MANHOLE		
@	TELEPHONE MANHOLE		TREE (DECIDUOUS)
$\sum r$	TELEPHONE RISER		
9	GAS VALVE		
0	GAS VENT		
⊞	GAS BOX	> . \	TREE (CONIFEROUS)
⊠£	ELECTRICAL RISER		
\boxtimes	TRANSFORMER		
Ø	UTILITY POLE		STUMP
0	LAMP POLE		
7	GUY ANCHOR	£ ,3	SHRUB (DECIDUOUS)
φ	GUY POLE		
· •••	MONITORING WELL		
MAL	MAILBOX		
•	SOIL BORING		
\triangle	TRAVERSE POINT		
+	BENCH MARK		
0	IRON PIPE		
•	MON BOX		

PROPOSED LEGEND

→ HYDRANT (PLAN)

8	WATER GATE WELL	R	STORM SEWER
•	REDUCER	<u> </u>	SANITARY SEWER
ı	WATER GATE VALVE		CENTERLINE OF DITCH
(W)	WATER STOP BOX		CENTERLINE OF ROAD
W	WATER VAULT	////	FENCE
•	INLET		SILT FENCE
	DOUBLE INLET		LOT/UNIT
•	INLET JUNCTION CHAMBER		
	ROUND CATCH BASIN		CURB
•	STORM MANHOLE		TEMPORARY GRADING PER
$\widehat{}$	DRAIN ARROW		WATER EASMENT
V	FLARED END SECTION		STORM EASEMENT
0	SANITARY MANHOLE		SANITARY EASEMENT
©	CLEAN-OUT		R.O.W.
•	BARREL		LIMITS OF CONSTRUCTION
- o -	SIGN	احالطاطاطاطاطاطاطاط	STONE WALL
	PUSH BUTTON		
		30000000000000000000000000000000000000	DETECTABLE WARNING
			ASPHALT
			CONCRETE
			SIDEWALK
		•	TREE (DECIDUOUS)





ES - CITY OF ANI SEX MANCHESTE AVEMENT REPA VM | Š ⊆

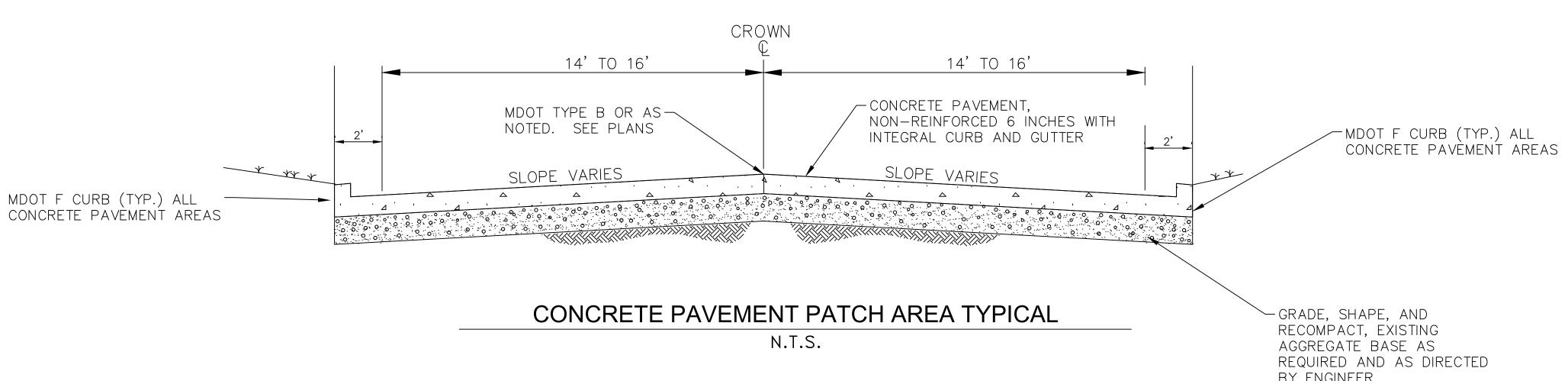
COLON) ÜÜ

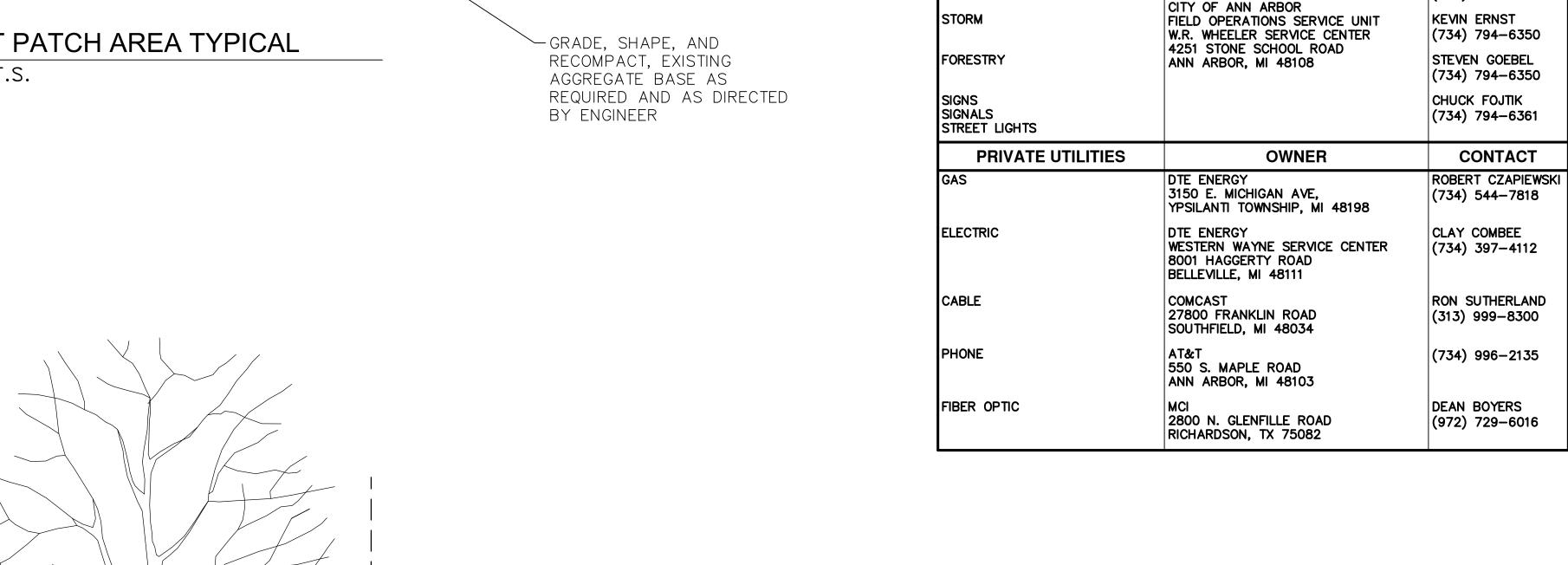
ANAGEM

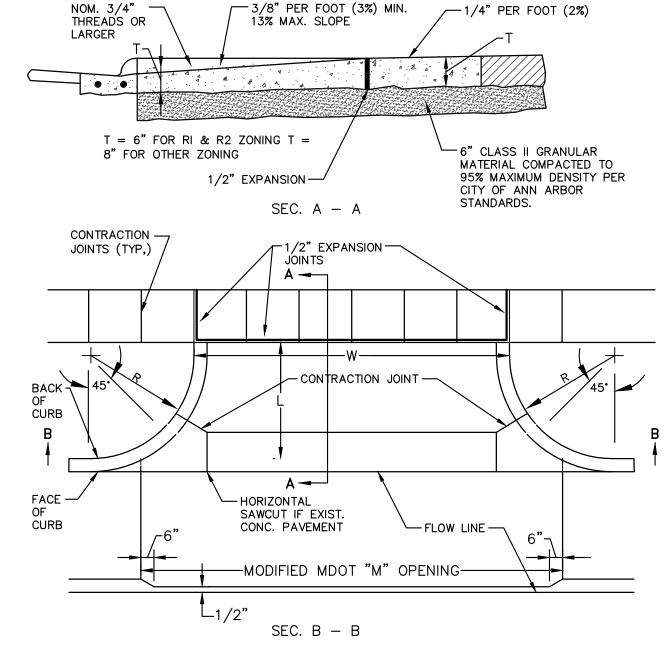
TREE (CONIFEROUS)

2 OF 25

SHEET No.



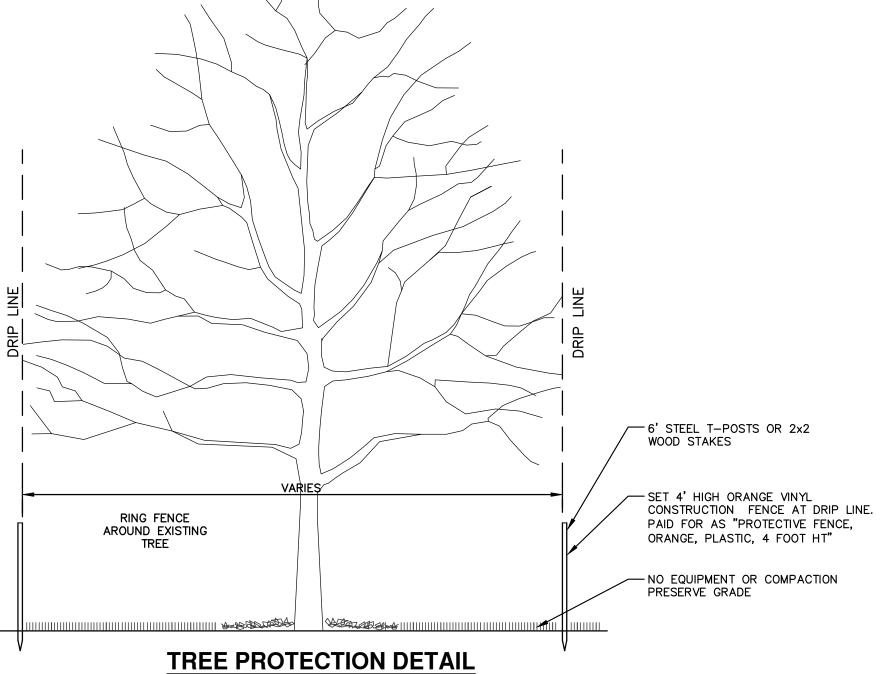




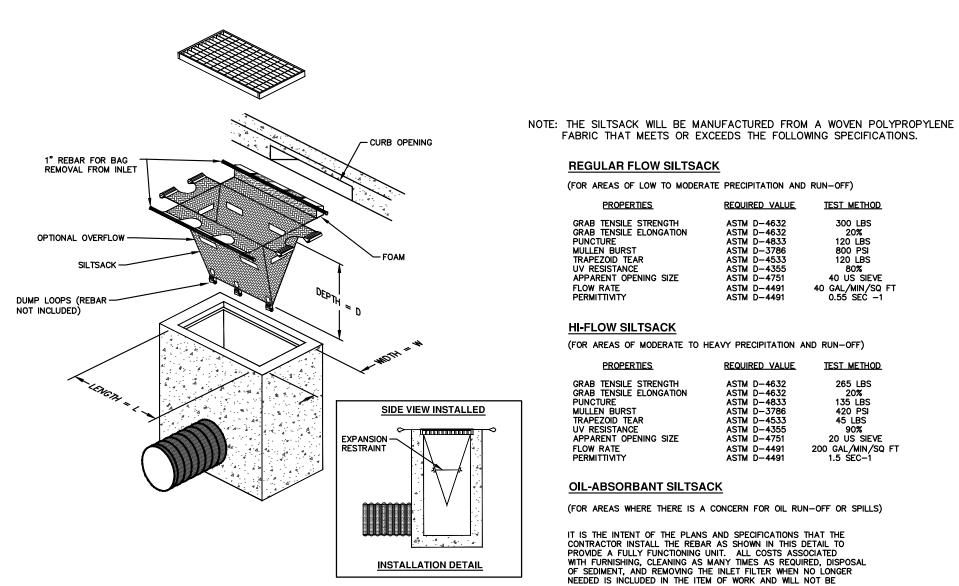
MEASUREMENT OF AREA: NOTE: R(RADIUS) AND W(DRIVE WIDTH)
AS REQUIRED FOR ZONING BY CITY $W \times L = AREA$

> NOTE: DRIVE APPROACH TO BE CLASS 'A' CONCRETE.

MODIFIED 'M' DRIVE APPROACH (FOR USE ON CONCRETE STREETS WITH BARRIER CURB) SD-R-8



CONTRACTOR SHALL NOT STORE OR PLACE EQUIPMENT AND/OR MATERIALS INSIDE DRIP LINE OF ANY CITY TREE. MECHANICAL DAMAGE TO CITY OWNED TREES (I.E. BARK DAMAGE, BRANCH BREAKAGE) IS NOT PERMITTED. CONTRACTOR IS RESPONSIBLE FOR PROPERLY PRUNING TREES TO PREVENT DAMAGE. IF BRANCHES GREATER THAN 2" IN DIAMETER REQUIRE PRUNING, CONTRACTOR TO CONTACT FORESTRY FOR CONSULTATION AND EVALUATION AT (734) 794-6350. NO ROOTS OF CITY-OWNED TREES GREATER THAN 2 INCHES IN DIAMETER ARE TO BE CUT. IF CONTRACTOR ENCOUNTERS CITY-OWNED TREES WITH ROOTS GREATER THAN 2 INCHES IN DIAMETER THAT THEY DETERMINE NEED TO BE CUT, CONTACT FORESTRY IMMEDIATELY FOR EVALUATION. ALL TRENCHING AND BORE PITS OF ANY KIND SHALL BE CLEAR OF TREE DRIP LINES. IF ANY CITY-OWNED STREET TREES ARE DAMAGED BY THIS WORK, THE CONTRACTOR MUST CONTACT FORESTRY AS SOON AS POSSIBLE SO THAT THE DAMAGE CAN BE ASSESSED. CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH DAMAGE REMEDIATION.



SILTSACK DETAIL

(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

REQUIRED VALUE

ASTM D-4632 ASTM D-4632 ASTM D-4833 ASTM D-3786 ASTM D-4533 ASTM D-4535 ASTM D-4751 ASTM D-4491 ASTM D-4491

REQUIRED VALUE

ASTM D-4632 ASTM D-4632 ASTM D-4833 ASTM D-3786 ASTM D-4533 ASTM D-4535 ASTM D-4751 ASTM D-4491 ASTM D-4491

TEST METHOD

300 LBS 20% 120 LBS 800 PSI 120 LBS 80% 40 US SIEVE 40 GAL/MIN/SQ FT 0.55 SEC -1

TEST METHOD

265 LBS 20% 135 LBS 420 PSI 45 LBS 90% 20 US SIEVE 200 GAL/MIN/SQ FT 1.5 SEC-1

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

REGULAR FLOW SILTSACK

GRAB TENSILE STRENGTH
GRAB TENSILE ELONGATION
PUNCTURE
MULLEN BURST
TRAPEZOID TEAR
UV RESISTANCE
APPARENT OPENING SIZE
FLOW RATE
PERMITTIVITY

HI-FLOW SILTSACK

<u>PROPERTIES</u>

GRAB TENSILE STRENGTH
GRAB TENSILE ELONGATION
PUNCTURE
MULLEN BURST
TRAPEZOID TEAR
UV RESISTANCE
APPARENT OPENING SIZE
FLOW RATE
PERMITTIVITY

OIL-ABSORBANT SILTSACK

IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS THAT THE CONTRACTOR INSTALL THE REBAR AS SHOWN IN THIS DETAIL TO PROVIDE A FULLY FUNCTIONING UNIT. ALL COSTS ASSOCIATED WITH FURNISHING, CLEANING AS MANY TIMES AS REQUIRED, DISPOSAL OF SEDIMENT, AND REMOVING THE INLET FILTER WHEN NO LONGER NEEDED IS INCLUDED IN THE ITEM OF WORK AND WILL NOT BE PAID FOR SEPARATELY.

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

I IIIOII IO IIIL BLAIMMA OI G	
PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
"NO PARKING" SIGNS PERMIT	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
RIGHT-OF-WAY PERMIT	CITY OF ANN ARBOR CUSTOMER SERVICE

* NO COST TO CONTRACTOR

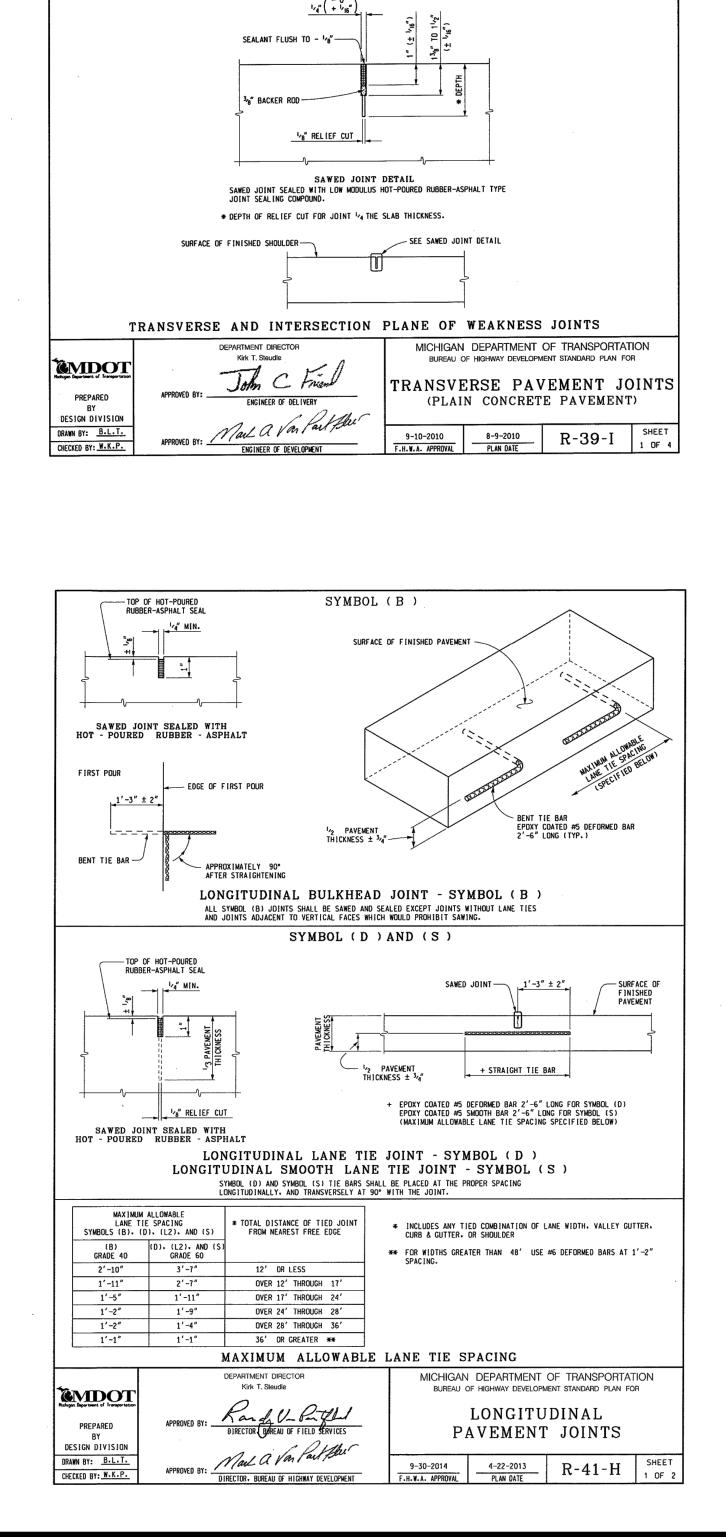
CONTACT INFORMATI	ON	
PUBLIC UTILITIES	OWNER	CONTACT
WATER		DAN WOODEN (734) 794-6350
SANITARY		MARK COZART (734) 794-6350
STORM	CITY OF ANN ARBOR FIELD OPERATIONS SERVICE UNIT W.R. WHEELER SERVICE CENTER	KEVIN ERNST (734) 794-6350
FORESTRY	4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	STEVEN GOEBEL (734) 794-6350
SIGNS SIGNALS STREET LIGHTS		CHUCK FOJTIK (734) 794-6361
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ROBERT CZAPIEWSKI (734) 544–7818
GAS ELECTRIC	3150 E. MICHIGAN AVE,	
	3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198 DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD	(734) 544-7818 CLAY COMBEE
ELECTRIC	3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198 DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111 COMCAST 27800 FRANKLIN ROAD	(734) 544-7818 CLAY COMBEE (734) 397-4112 RON SUTHERLAND



COLONY ESSEX MANCHESTER
CONCRETE PAVEMENT REPAIR
NOTES

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBO

SHEET No.



SYMBOL (Cp) AND (C3p)

TRANSVERSE CONTRACTION JOINT

SYMBOL (W)

1/8" RELIEF CUT

LOAD TRANSFER ASSEMBLY METHOD

SURFACE OF FINISHED PAVEMENT OR SHOULDER-

SAWED JOINT DETAIL SAWED JOINT SEALED WITH LOW MODULUS HOT-POURED RUBBER-ASPHALT TYPE JOINT SEALING COMPOUND.

* DEPTH OF RELIEF CUT FOR JOINT (Cp) AND (C3p) SHALL BE '4 THE SLAB THICKNESS FOR PAVEMENTS LESS THAN OR EQUAL TO 7" IN THICKNESS AND '43 THE SLAB THICKNESS FOR PAVEMENTS GREATER THAN 7" THICK.

- SEE SAWED JOINT DETAIL

LOAD TRANSFER JOINT USE

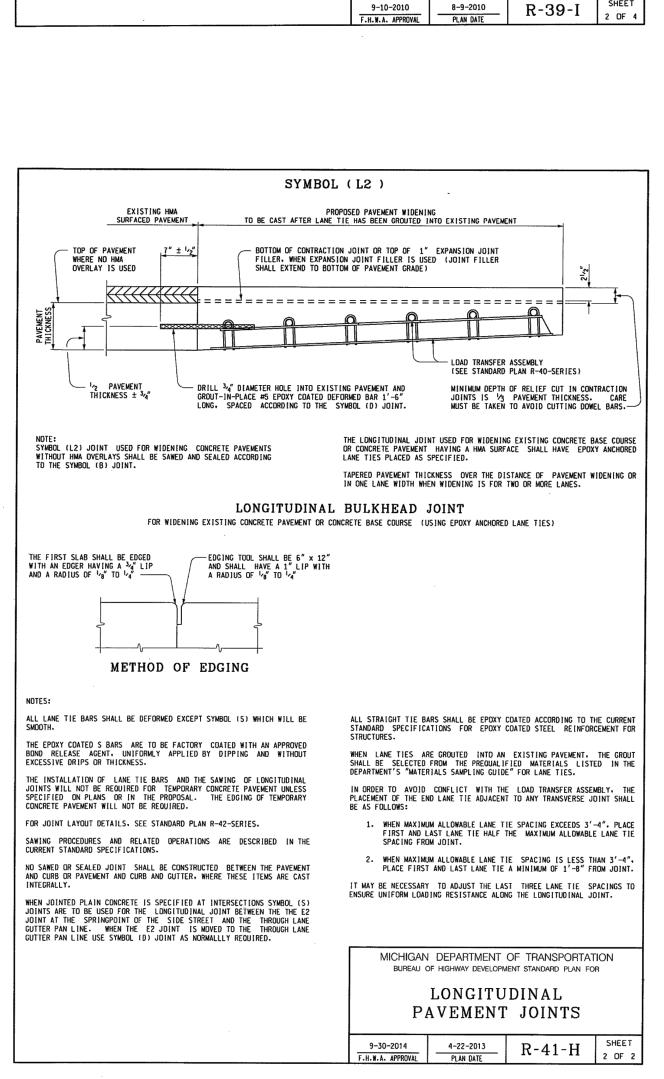
- SEE SAWED JOINT DETAIL

PAVEMENT SHOULDER

YES

DOWEL BAR INSERTER METHOD

NO



SYMBOL (E2), (E3) AND (E4)

1" FIBER FILLER

TRANSVERSE EXPANSION JOINT

SYMBOL (U)

TRANSVERSE PLANE OF WEAKNESS

JOINTS IN CONCRETE BASE COURSE

45° BEVELED EDGE (TYP.)

1" FIBER FILLER

- SEE SAWED JOINT DETAIL

1/8" SAWED JOINT OR A FORMED JOINT MADE BY PLACING 1/4" HARDBOARD OR OTHER APPROVED MATERIAL FLUSH WITH THE SURFACE OF THE CONCRETE BASE COURSE AND TRUE TO POSITION AND LINE BEFORE THE CONCRETE HAS SET

SAWED JOINT DETAIL

SAWED JOINT SEALED WITH LOW MODULUS HOT-POURED RUBBER-ASPHALT TYPE JOINT SEALING COMPOUND.

THE FINAL WIDTH OF THE GROOVE SHALL BE 1" + \(\frac{\lambda_{16}}{\lambda_{2}}\)
PLUS ANY INCREASE OR MINUS ANY DECREASE IN THE WIDTH OF THE RELIEF CUT. THE FINAL SAW CUT SHALL BE TO THE TOP OF THE FIBER FILLER WITH A MINIMUM DEPTH AS SHOWN AND SHALL BE CENTERED OVER THE FIBER FILLER WITH A HORIZONTAL TOLERANCE OF \(\frac{\lambda_{4}}{\lambda_{2}}\). FIBER FILLER FOR EXPANSION JOINTS IN CONCRETE SHOULDERS SHALL BE FREE OF HOLES OR OTHER DEFECTS AND TRIMMED TO FIT SHOULDERS CONFIGURATIONS.

SYMBOL LOAD TRANSFER ASSEMBLY

OUTSIDE EDGE TREATMENT

MICHIGAN DEPARTMENT OF TRANSPORTATION

TRANSVERSE PAVEMENT JOINTS

(PLAIN CONCRETE PAVEMENT)

BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

JOINT USE

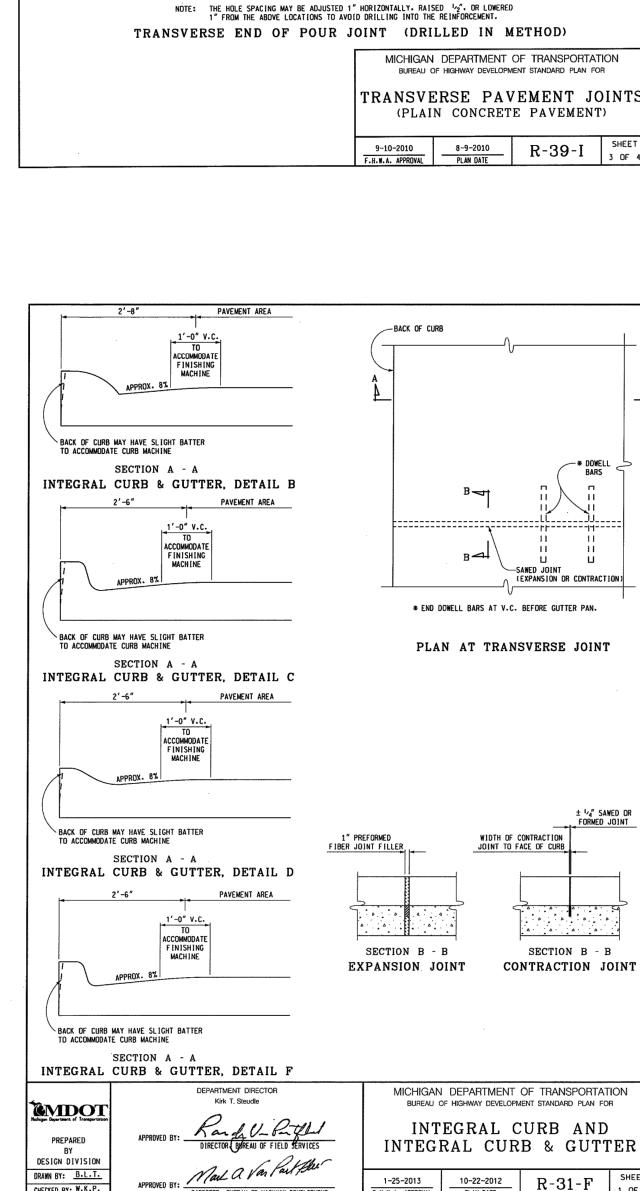
PAVEMENT

PAVEMENT & SHOULDE

LOW MODULUS HOT-POURE

RUBBER-ASPHALT TYPE JOINT SEALING COMPOUND

(MINIMUM DIAMETER 1.25 x FINAL WIDTH)



SYMBOL (H)

12'-0" RIGHT LANE PAVED AT 14'-0"

DEFORMED BAR SPACING TRANSVERSE END OF POUR JOINT (SPLIT HEADER METHOD)

12'-0" RIGHT LANE PAVED AT 14'-0"

DEFORMED BAR SPACING

12'-0" (LANE WIDTH)

1′-0″1′-0″1′-0″1′-0″1′-0″1′-0″ 2′-0″ 1′-0″1′-0″1′-0″1′-0″1′-0″1′-0″1′-0″

SEE NOTES SHEET 4 OF 4

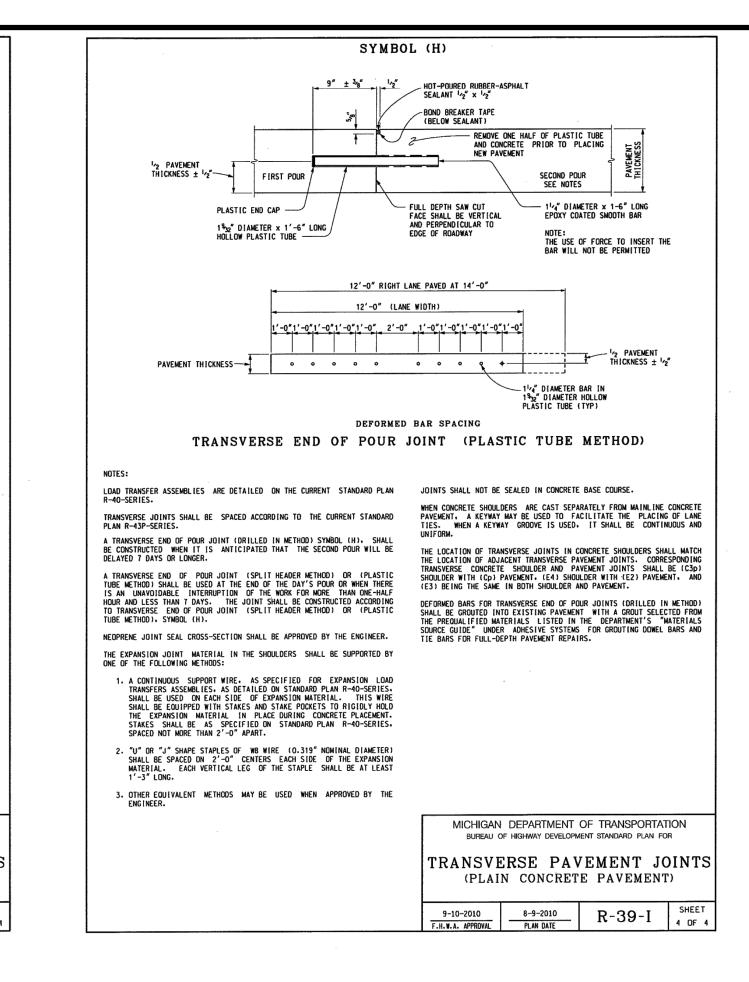
DEFORMED BAR (GROUT IN PLACE

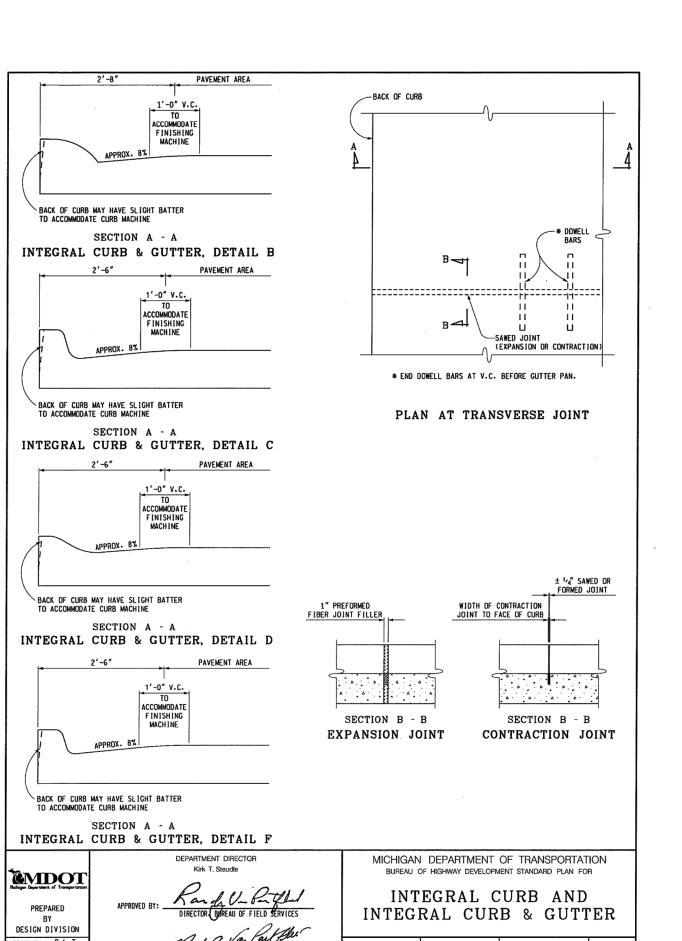
FIRST POUR

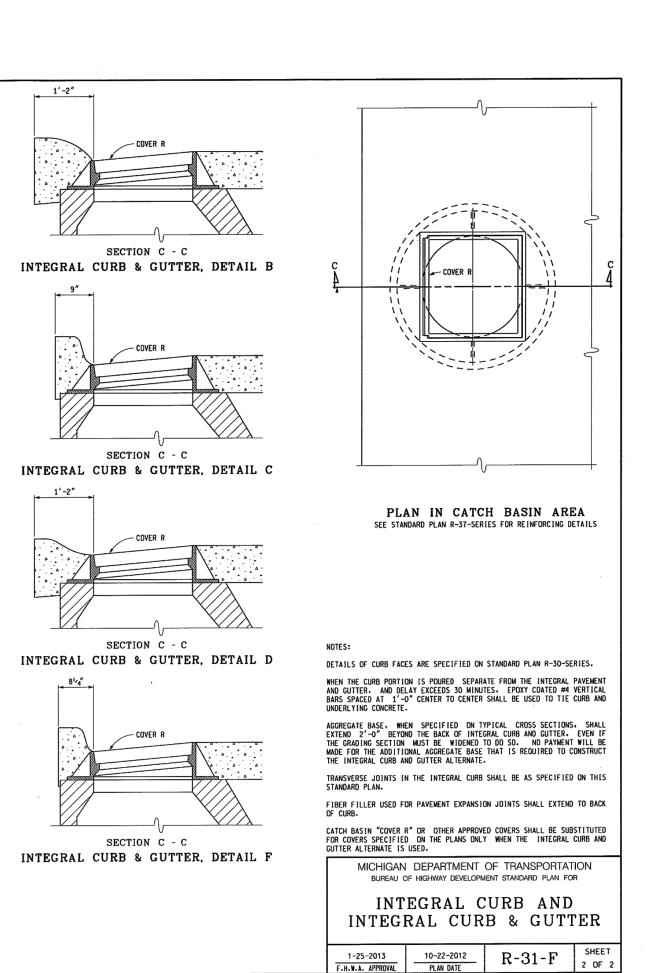
FIRST POUR

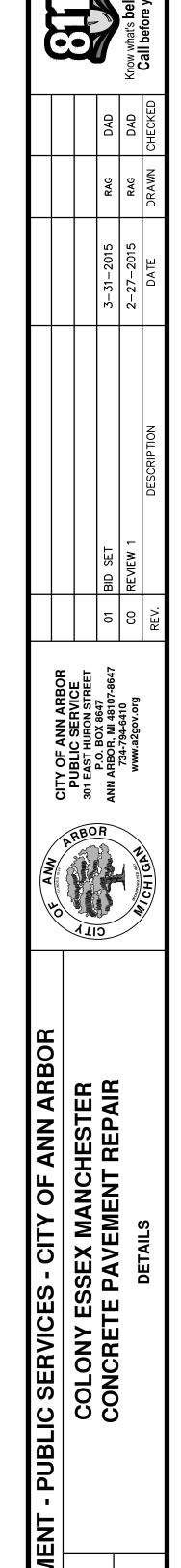
13/8" DIAMETER HOLE-

THICKNESS ± 1/2"



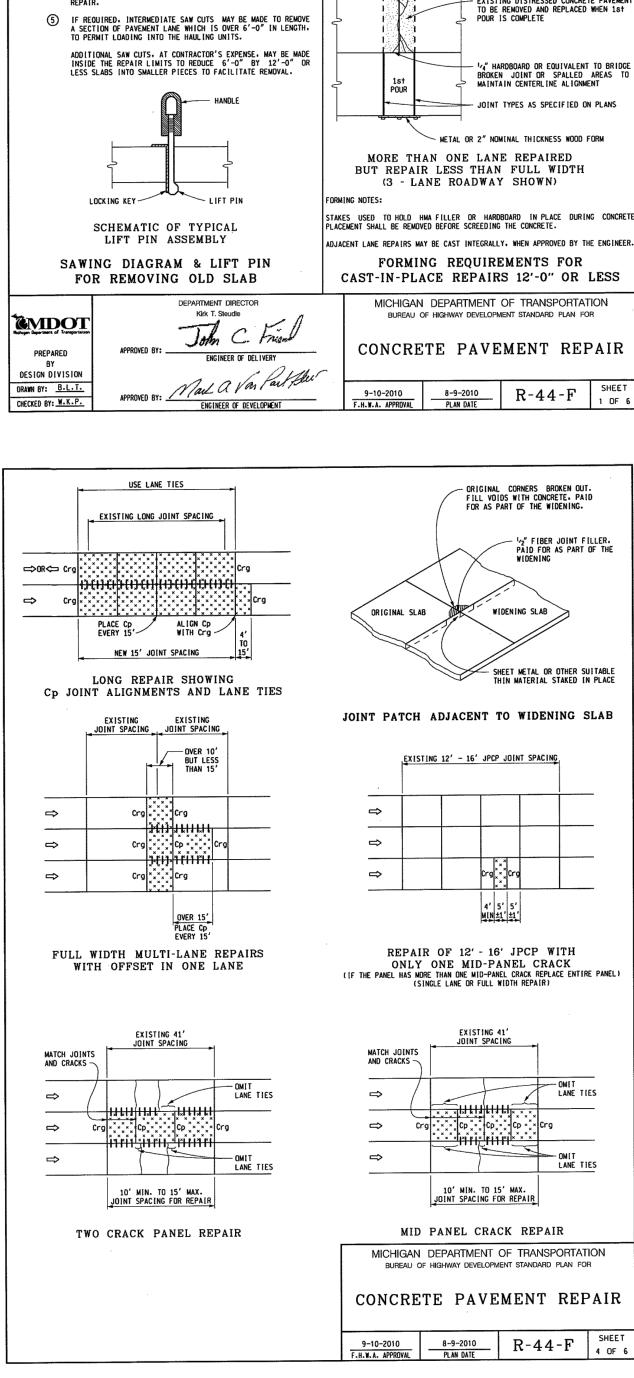






IANAGEME

SHEET No.



4" TO 6" (M[N. TAPER)

REPAIR LENGTH

PLAN OF SAWING DIAGRAM

1 & 2 THESE SAW CUTS SHALL BE FULL DEPTH AND PERPENDICULAR TO THE EDGE OF THE ROADWAY. WITHIN A TOLERANCE OF 1". NO OVERCUTTING INTO ADJACENT LANES SHALL BE MADE UNLESS THE OVERCUT IS WITHIN THE LIMITS OF A SUBSCUENT REPAIR TO THE ADJACENT LANE. SHOULDER OVERCUTS WILL BE ALLOWED.

THIS FULL DEPTH SAW CUT IS MADE TO FACILITATE OPENING A TRENCH ACROSS THE SLAB TO RELIEVE COMPRESSION IN THE PAVEMENT PRIOR TO LIFTING OUT THE FAILED AREA. THIS SAW CUT MAY BE OMITTED PROVIDED NO SPALLING OF THE REMAINING CONCRETE OCCURS. IF SPALLING DOES OCCUR. THE CONTRACTOR WILL BE REQUIRED TO MAKE THIS SAW CUT ON SUBSEQUENT REPAIRS. WHEN THIS SAW CUT IS USED AND THE ADJACENT LANE IS NOT REPAIRED. NO OVERCUTTING INTO THAT LANE SHALL BE MADE.

THIS LONGITUDINAL FULL DEPTH SAW CUT IS MADE BETWEEN LANES OR BETWEEN ANY COMBINATION OF THE FOLLOWING: LANE, RAMP, CURB, CONCRETE SHOULDER, OR PARTIAL LANE WIDTH

THIS METHOD OF REMOVING DISTRESSED CONCRETE SHALL BE USED IN CONJUNCTION WITH FULL DEPTH CAST-IN-PLACE REPAIRS LESS THAN 50'-0" LONG AND IS OPTIONAL FOR REPAIRS OVER 50'-0"

- 1/4" HARDBOARD OR EQUIVALENT AS BOND BREAKER

JOINT TYPES AS SPECIFIED ON PLANS

- EXISTING DISTRESSED CONCRETE PAVEMENT TO BE REMOVED AND REPLACED WHEN 1st POUR IS COMPLETE

- 1/4" HARDBOARD OR EQUIVALENT TO BRIDGE BROKEN JOINT OR SPALLED AREAS TO MAINTAIN CENTERLINE ALIGNMENT

JOINT TYPES AS SPECIFIED ON PLANS

BREAKER WHEN PLACING SECOND POUR

- METAL OR 2" NOMINAL THICKNESS WOOD FORM

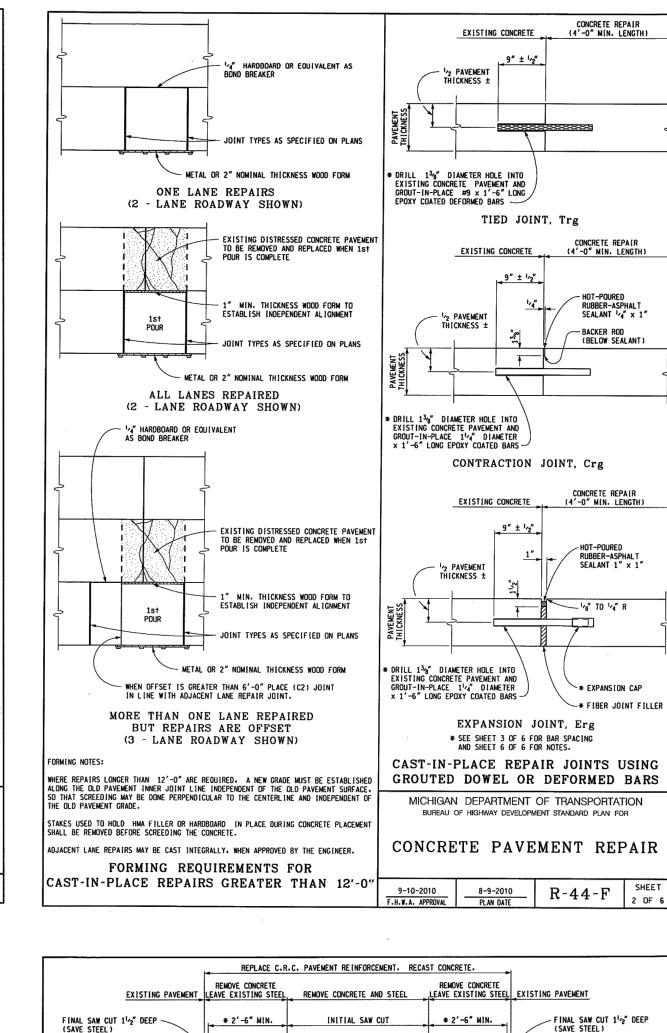
- METAL OR 2" NOMINAL THICKNESS WOOD FORM

ONE LANE REPAIRS

(2 - LANE ROADWAY SHOWN)

ALL LANES REPAIRED

(2 - LANE ROADWAY SHOWN)



EPOXY COATED #5 BARS TRANSVERSELY EVERY 12" IN REPAIR

CASE II

HMA REPAIR OF CONCRETE

PAVEMENT WITH HMA SURFACE

REMOVE HMA OVERLAY TO CONCRETE SURFACE

0.15 GAL/SYD BOND COAT

CASE V

R-44-F

PROVIDE VERTICAL EDGES BY SAW CUT OR OTHER APPROVED METHOD —

0.15 GAL/SYD BOND COAT

CASE I

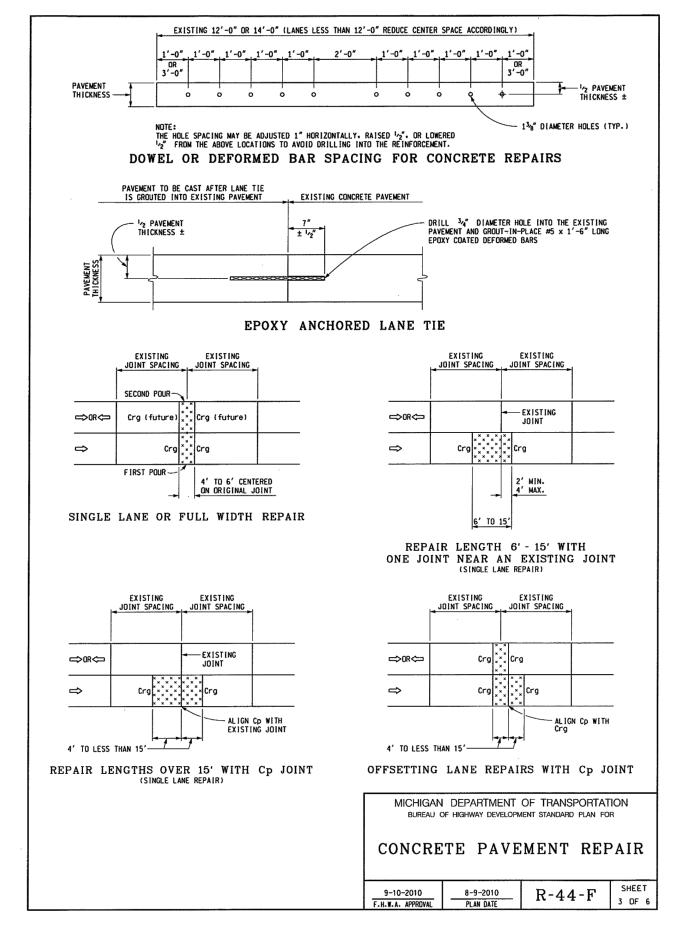
HMA REPAIR OF

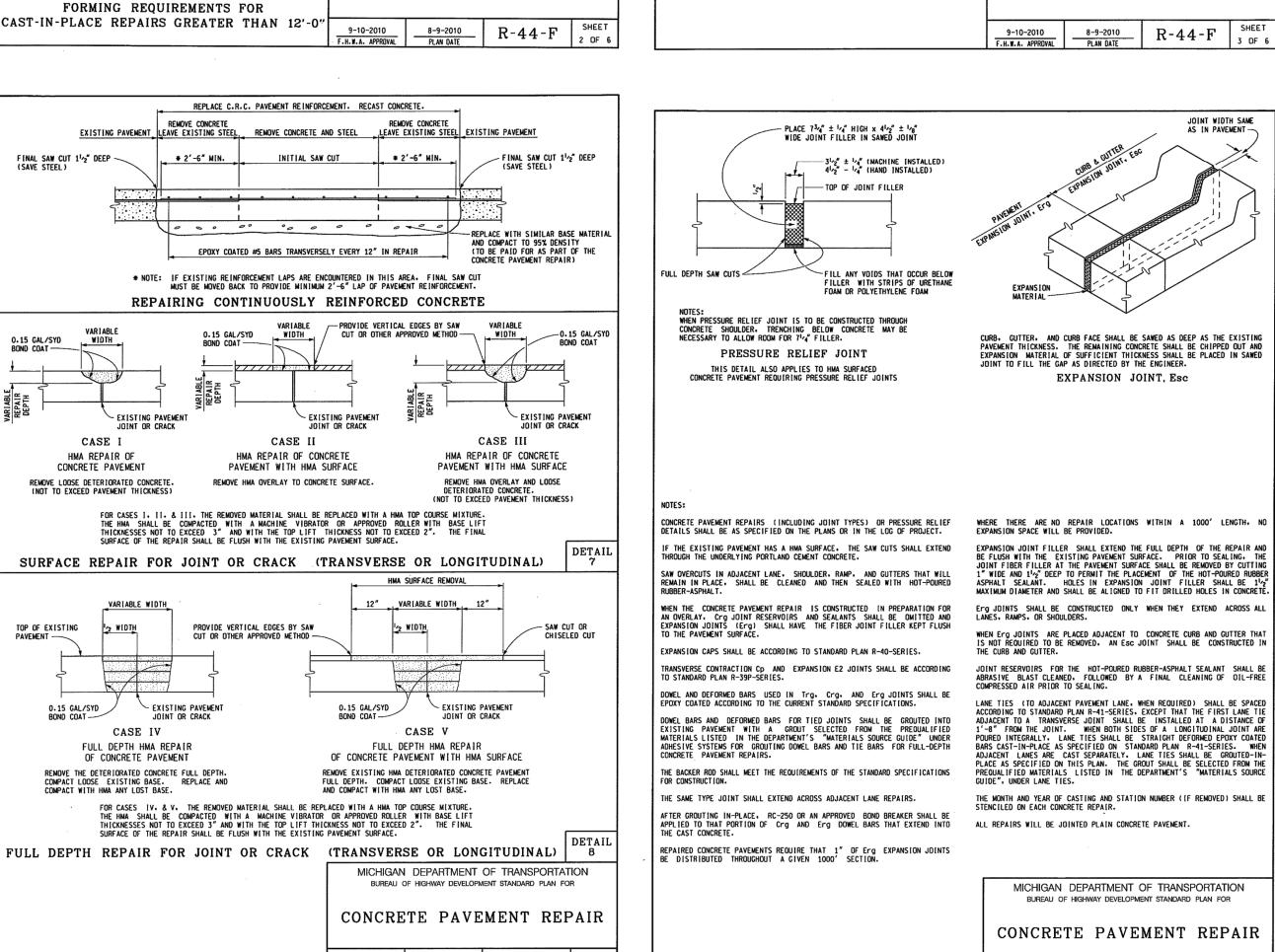
CONCRETE PAVEMENT

CASE IV FULL DEPTH HMA REPAIR

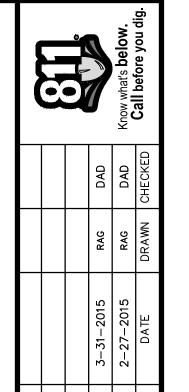
OF CONCRETE PAVEMENT

REMOVE THE DETERIORATED CONCRETE FULL DEPTH.
COMPACT LOOSE EXISTING BASE. REPLACE AND
COMPACT WITH HMA ANY LOST BASE.





8-9-2010 R-44-F SHEET 6 OF 6



		3-31-2015 RAG	2-27-2015 RAG	DATE DRAWN CHECKED
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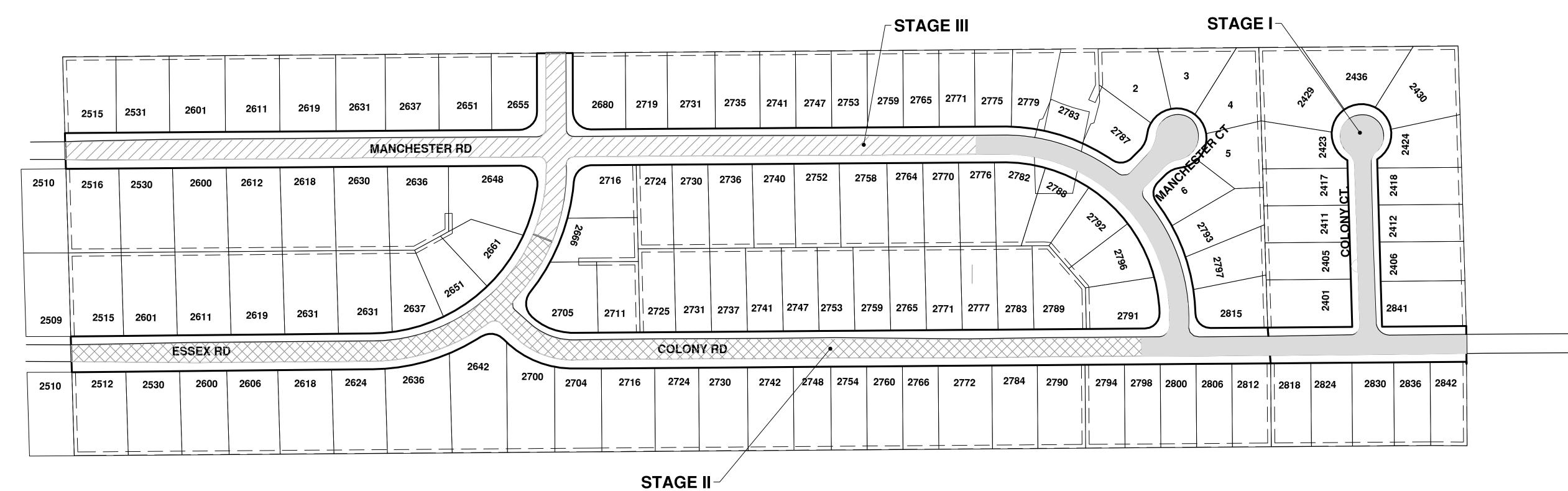
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PROJECT MANAGEM

SHEET No.



THE CONTRACTOR SHALL REVIEW THE TRAFFIC MAINTENANCE PLANS, DETOUR PLANS, AND THE CONTRACT DOCUMENTS AND NOTE THAT EACH OF THE MAJOR STAGES OF CONSTRUCTION (STAGES 1 THROUGH 3) ARE SHOWN FOR THE PURPOSE OF COMPLETING THE CONCRETE PAVEMENT REPAIRS AND SIDEWALK WHILE MAINTAINING ACCESS TO ALL RESIDENCES SOLELY ACCESSED OFF OF COLONY RD, MANCHESTER RD., ESSEX RD. AND COLONY COURT. EACH CONSTRUCTION STAGE SHOWN ON SHEET 4 WILL BE BUILT CONSTRUCTING ONE SIDE OF ROAD AT A TIME. CONTRACTOR WILL BE REQUIRED TO KEEP ONE SIDE OF ROAD OPEN AT ALL TIMES FOR RESIDENTS AND EMERGENCY VEHICLES. CONTRACTOR WILL BE REQUIRED TO REMOVE ONLY ENOUGH OF CONCRETE PAVEMENT THAT CAN BE PLACED BACK IN SAME DAY; 25 FEET OF REMOVAL PROPERLY SECURED IS ALL THAT CAN BE LEFT OPEN AT END OF EACH DAY. WERE STORM SEWER STRUCTURES TO BE REPLACED ARE IN FRONT OF DRIVES, CONTRACTOR TO SCHEDULE REMOVAL, REPLACEMENT, BACKFILL, CONCRETE PLACEMENT, AND CURE TIME TO BE COMPLETED IN NO MORE THAN 5 DAYS FROM START TO FINISH. THE INTENT IS TO HAVE CONTRACTOR ALSO WORKING ON RESTORING LAWN AREAS AS SOON AS POSSIBLE AND COMPLETE WORK IN EACH STAGE BEFORE MOVING ON TO NEXT STAGE. WHEN CONTRACTOR NEEDS TO UTILIZE BOTH LANES TO PLACE CONCRETE REPAIRS FLAG CONTROL WILL BE REQUIRED TO BE USED TO CONTROL ACCESS. CONTRACTOR WILL SUBMIT DETAILED SCHEDULE OF WORK ITEMS AND PROPOSED COMPLETION DATES ON WEEKLY BASIS. THESE WORK ITEMS AND DATES WILL BE DISCUSSED AND ADJUSTED AS NEEDED AT WEEKLY PROGRESS MEETING. THE CONTRACTOR MAY CHOOSE TO ADJUST THE LIMITS OR SEQUENCING OF CONSTRUCTION IN ORDER TO COMPLETE THE WORK MORE EFFICIENTLY. HOWEVER, CHANGES TO THE RECOMMENDED STAGES MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO CONSTRUCTION AND MUST ASSURE THAT ACCESS IS MAINTAINED AS DESCRIBED ABOVE.

- STAGE I 1. PLACE MESSAGE BOARDS 1 WEEK PRIOR TO START OF CONSTRUCTION. PLACE MESSAGE PER ENGINEER.
- 2. INSTALL TRAFFIC CONTROL DEVICES FOR DETOUR AND MAINTENANCE OF TRAFFIC PER STAGE I.
- 3. PLACE NO PARKING SIGNS.
- 4. PLACE SOIL EROSION CONTROL ITEMS AND TREE PROTECTION.
- 5. CONSTRUCT STORM SEWER INLETS ON COLONY AND MANCHESTER COURT.
- REMOVE AND REPLACE CONCRETE PAVEMENT AND SIDEWALK.
- 7. FINISH RESTORATION, CLEAN STREET, AND COMPLETE PRELIMINARY PUNCH LIST FOR STAGE I. 8. REMOVE SOIL EROSION CONTROL MEASURES AND TREE PROTECTION.
- 9. REMOVE NO PARKING SIGNS, DETOUR AND CONSTRUCTION SIGNAGE.

STAGE II

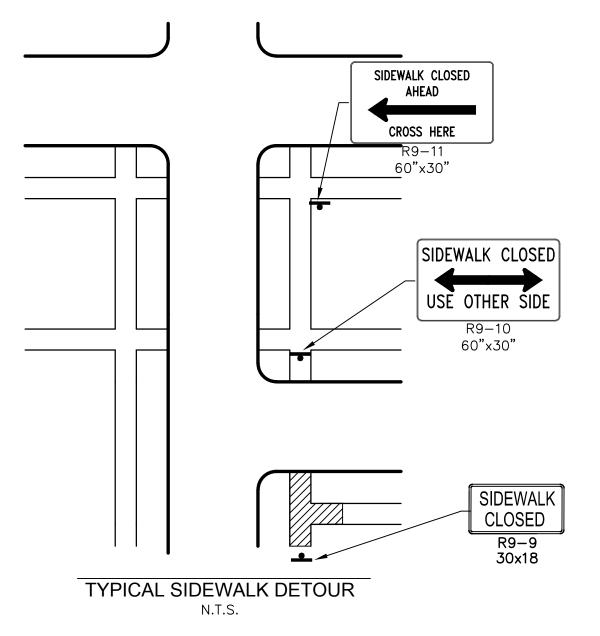
- 1. ADJUST MESSAGE ON MESSAGE BOARDS, PLACE MESSAGE PER ENGINEER.
- 2. INSTALL TRAFFIC CONTROL DEVICES FOR DETOUR AND MAINTENANCE OF TRAFFIC PER STAGE II.
- 3. PLACE NO PARKING SIGNS.
- 4. PLACE SOIL EROSION CONTROL ITEMS AND TREE PROTECTION.
- 5. CONSTRUCT STORM SEWER FRONT OF 2724 AND 2731 COLONY COURT.

9. REMOVE NO PARKING SIGNS, DETOUR AND CONSTRUCTION SIGNAGE.

- 6. REMOVE AND REPLACE CONCRETE PAVEMENT AND SIDEWALK. 7. FINISH RESTORATION, CLEAN STREET, AND COMPLETE PRELIMINARY PUNCH LIST FOR STAGE II.
- 8. REMOVE SOIL EROSION CONTROL MEASURES AND TREE PROTECTION.

STAGE III

- ADJUST MESSAGE ON MESSAGE BOARDS, PLACE MESSAGE PER ENGINEER.
- 2. INSTALL TRAFFIC CONTROL DEVICES FOR DETOUR AND MAINTENANCE OF TRAFFIC PER STAGE III.
- 3. PLACE NO PARKING SIGNS.
- 4. PLACE SOIL EROSION CONTROL ITEMS AND TREE PROTECTION.
- 5. CONSTRUCT STORM SEWER FRONT OF 2611, 2612, 2636, 2637, 2648, 2735 AND 2736 MANCHESTER RD.
- 6. REMOVE AND REPLACE CONCRETE PAVEMENT AND SIDEWALK.
- 7. FINISH RESTORATION, CLEAN STREET, AND COMPLETE PRELIMINARY PUNCH LIST FOR STAGE III AND OVERALL PROJECT PUNCH LIST.
- 8. REMOVE SOIL EROSION CONTROL MEASURES AND TREE PROTECTION. 9. REMOVE NO PARKING SIGNS, DETOUR AND CONSTRUCTION SIGNAGE.



PEDESTRIA	AN TRAFFIC	CONTROL S	IGNS
SIGN	NUMBER	QUANTITY	TOTAL SFT
SIDEWALK CLOSED USE OTHER SIDE	R9-10 60X30	3	38
SIDEWALK CLOSED CROSS HERE	R9-11 60X30	3	38
SIDEWALK CLOSED	R9-9 30x18	3	14
SIDEWALK CLOSED AHEAD CROSS HERE	R9-11 48×36	3	36

SIDEWALK DETOUR

1. SIGNS PROVIDED AS NEEDED. PEDESTRIAN DETOUR PLACED AS DIRECTED BY ENGINEER

TRAFFIC NOTES FOR STAGE 1, 2, AND 3

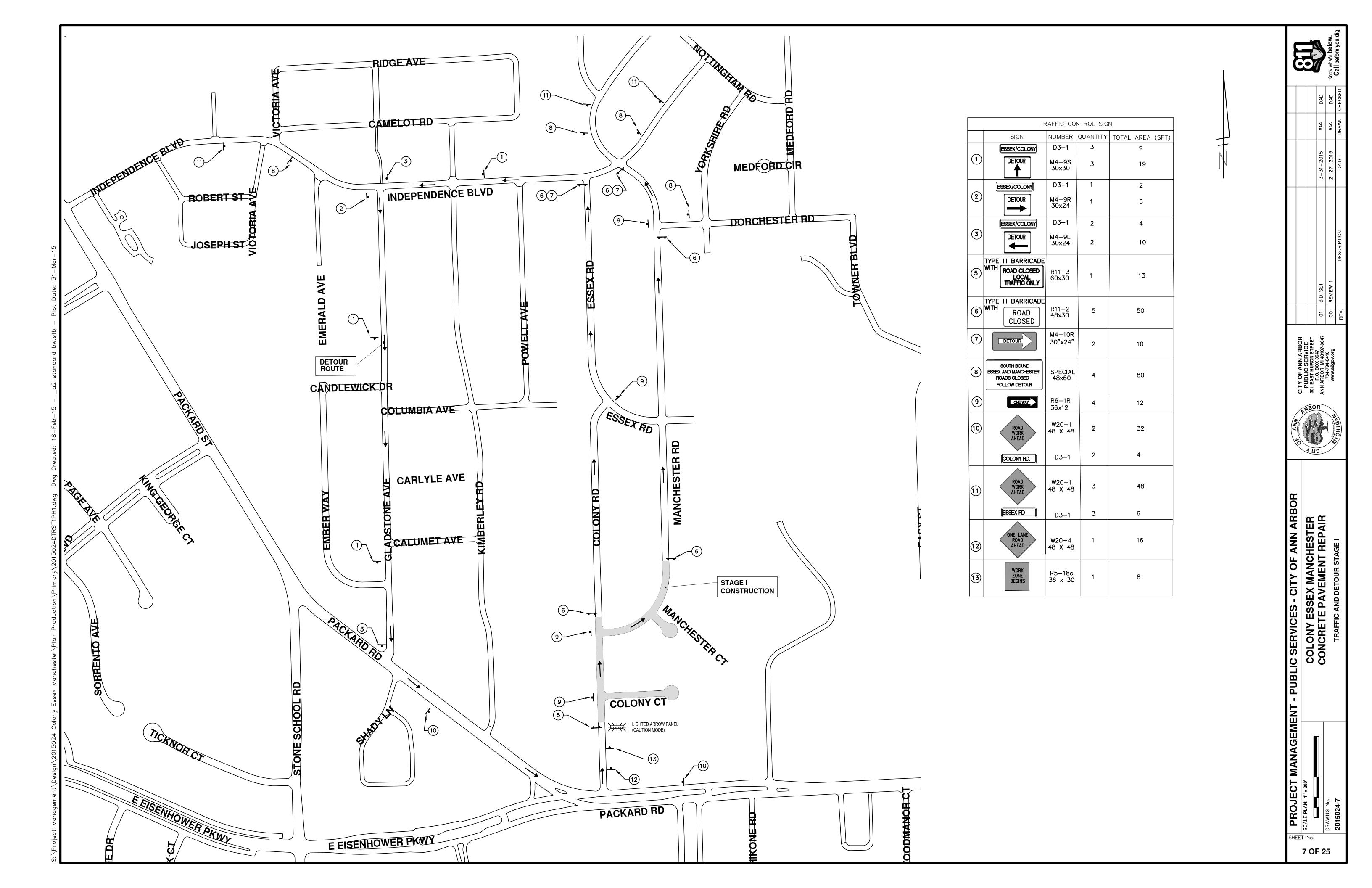
- 1. CONTRACTOR SHALL PLACE PORTABLE, CHANGEABLE MESSAGE SIGNS A MINIMUM OF ONE (1) WEEK PRIOR TO THE START OF CONSTRUCTION IN LOCATIONS INDICATED BY ENGINEER. MESSAGE TO BE PROVIDED BY THE ENGINEER.
- 2. SIGN SPACING PER MMUTCD 6C-4 OR AS DIRECTED BY ENGINEER.
- 3. ONE SIDE OF SIDEWALK TO BE OPEN FOR USE AT ALL TIMES.
- 4. ALL TRAFFIC CONTROL DEVICES TO MEET CURRENT MMUTCD PART 6 STANDARDS.
- 5. MAINTAIN ACCESS TO PROPERTIES AND EMERGENCY VEHICLES AT ALL TIMES.
- 6. CONTRACTOR TO PROVIDE TRAFFIC REGULATORS AS NEEDED AND AS DIRECTED BY ENGINEER.
- 7. COVER CONFLICTING SIGNS AS NEEDED OR AS DIRECTED BY ENGINEER, PAID AS PART OF MINOR TRAFFIC CONTROL.

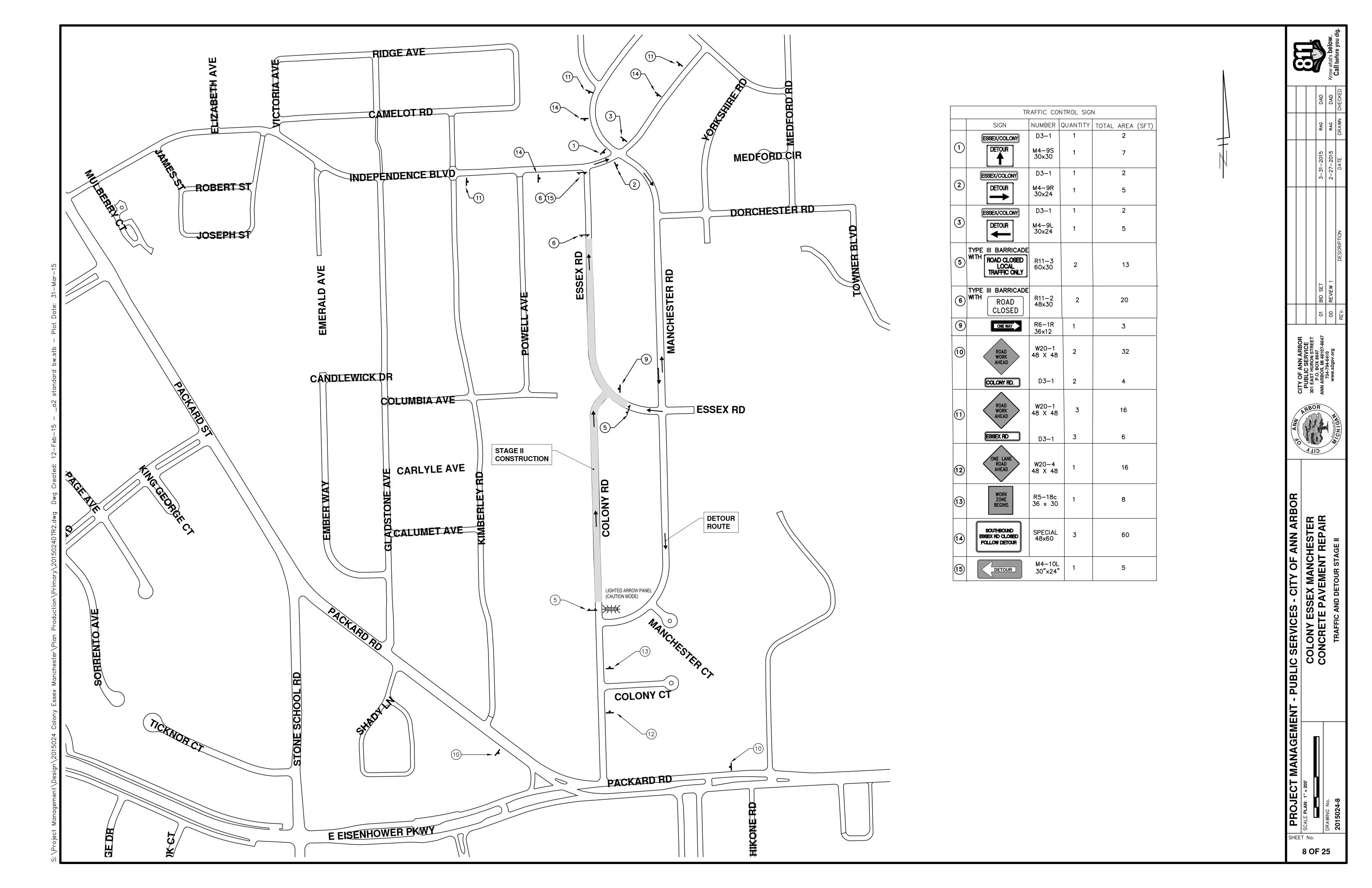
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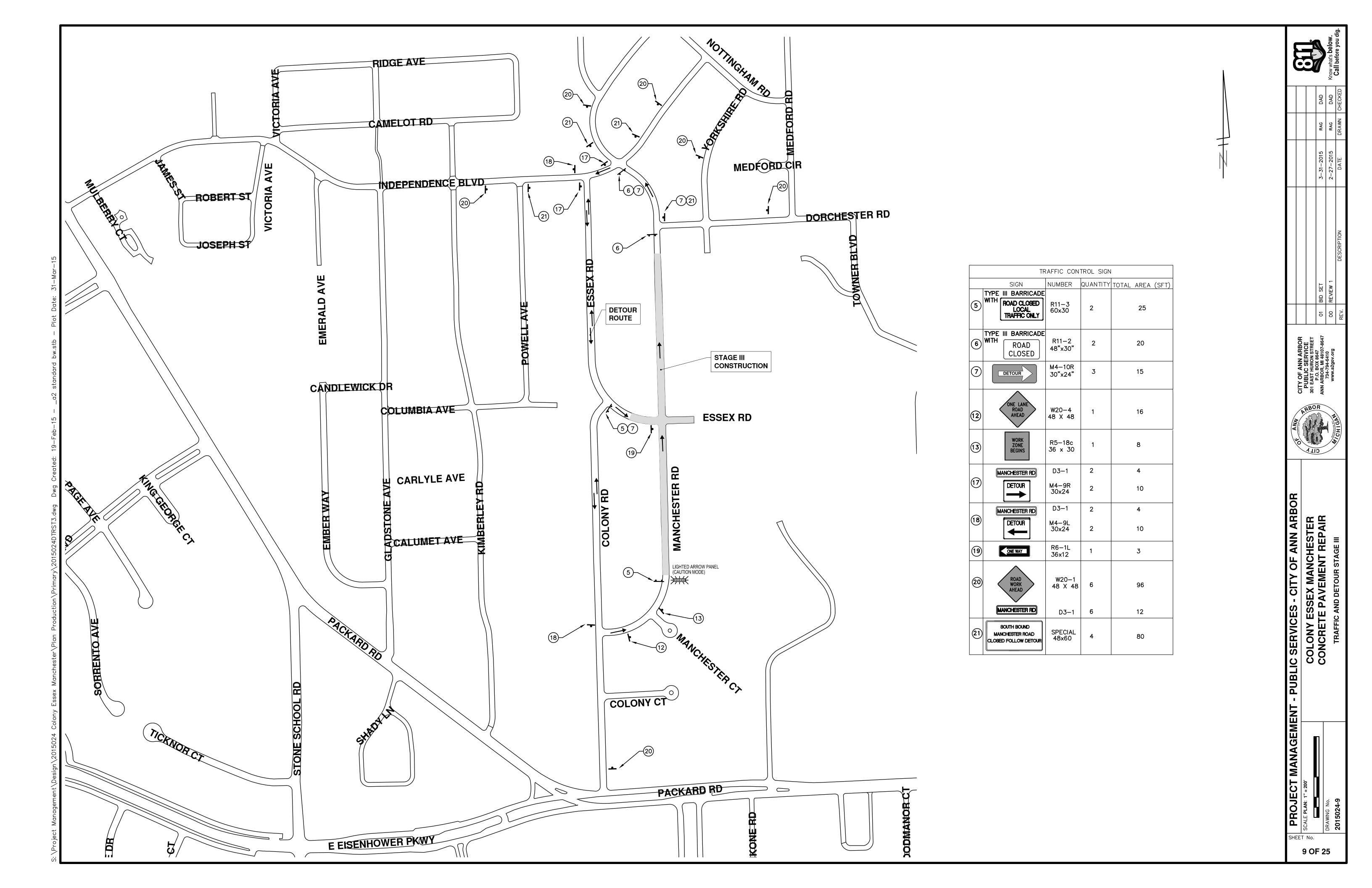
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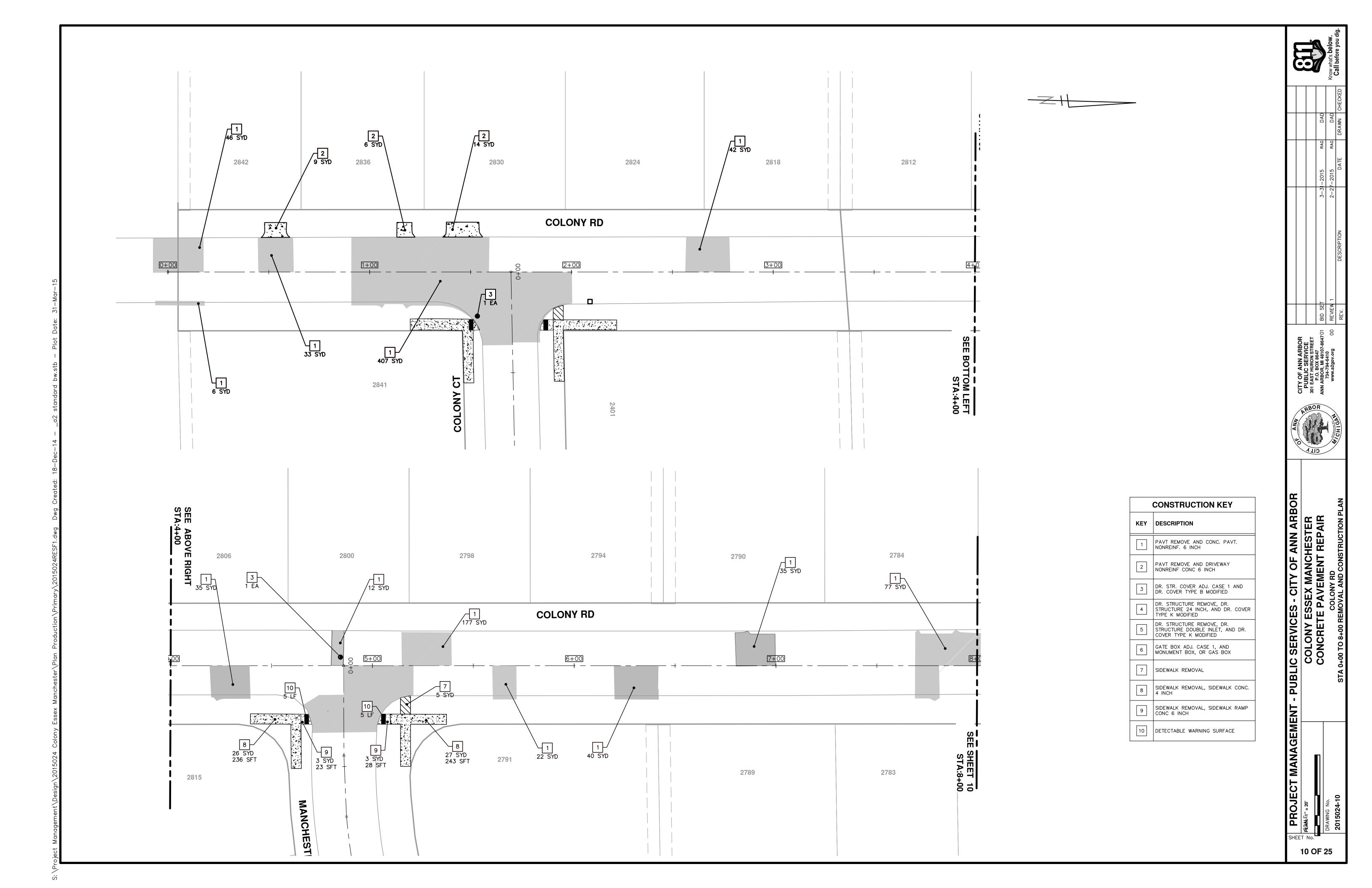
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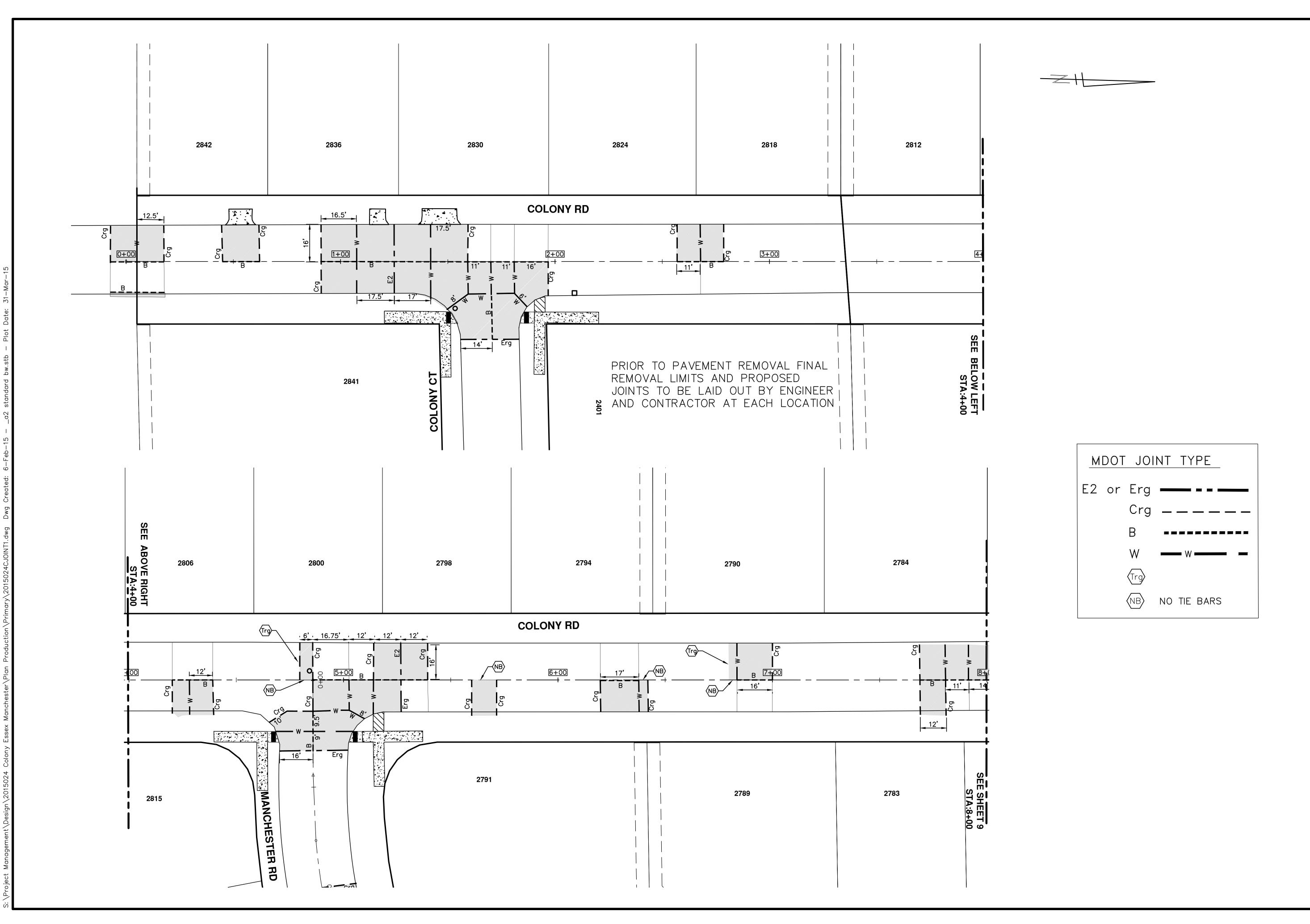
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

SCALE PLAN: 1" = 20]

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COLONY ESSEX MANCHESTER

COLONY RD

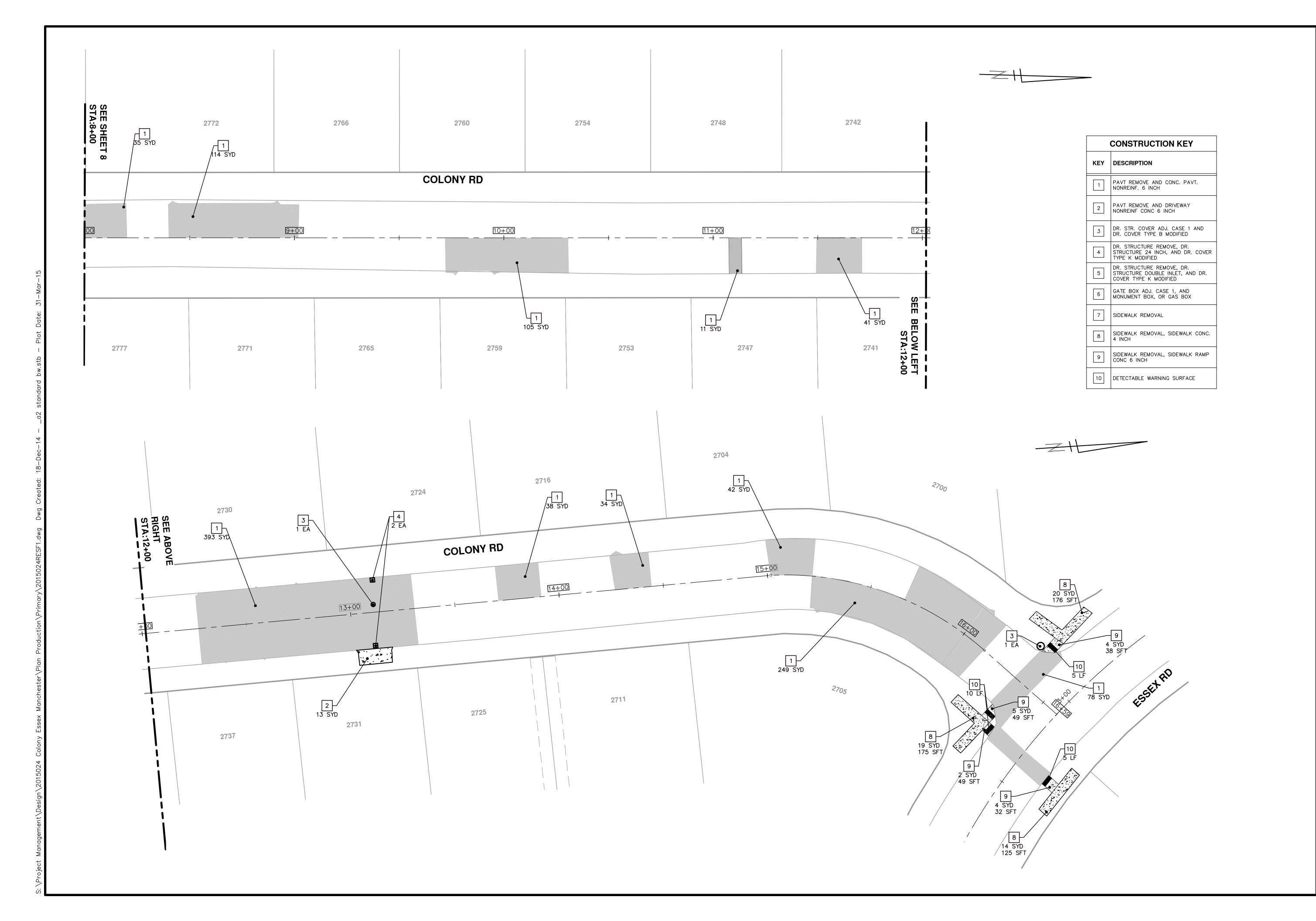
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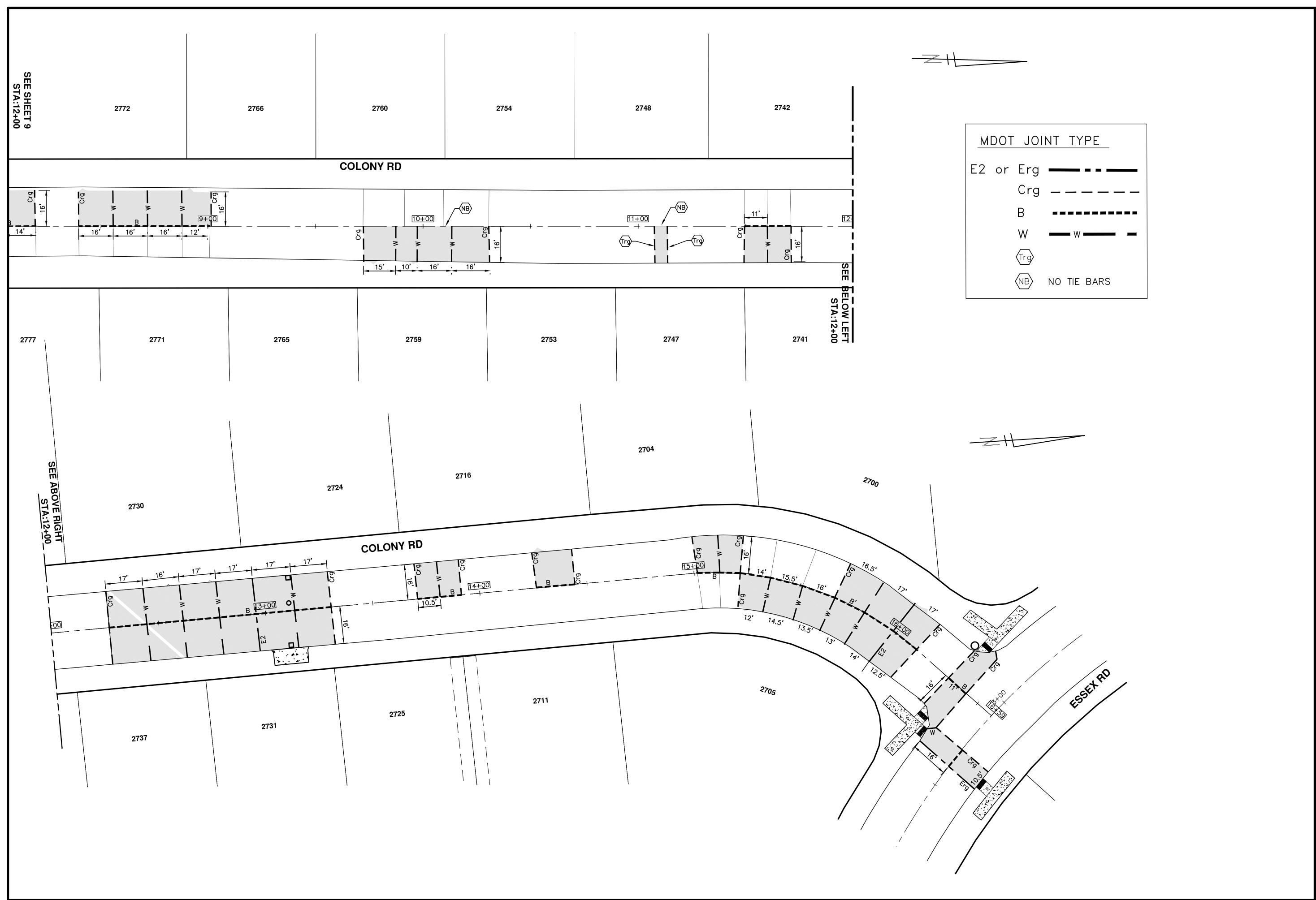
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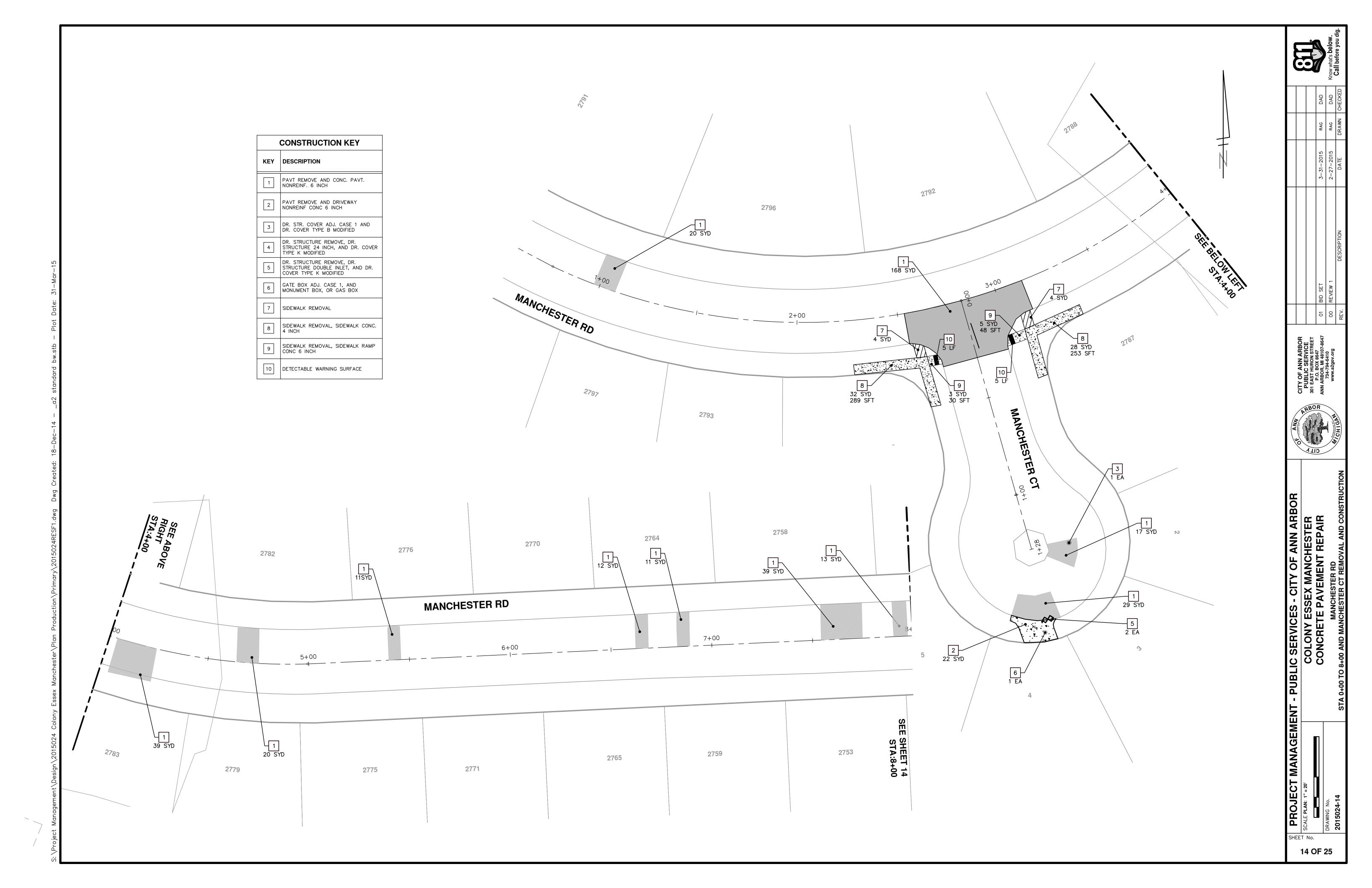
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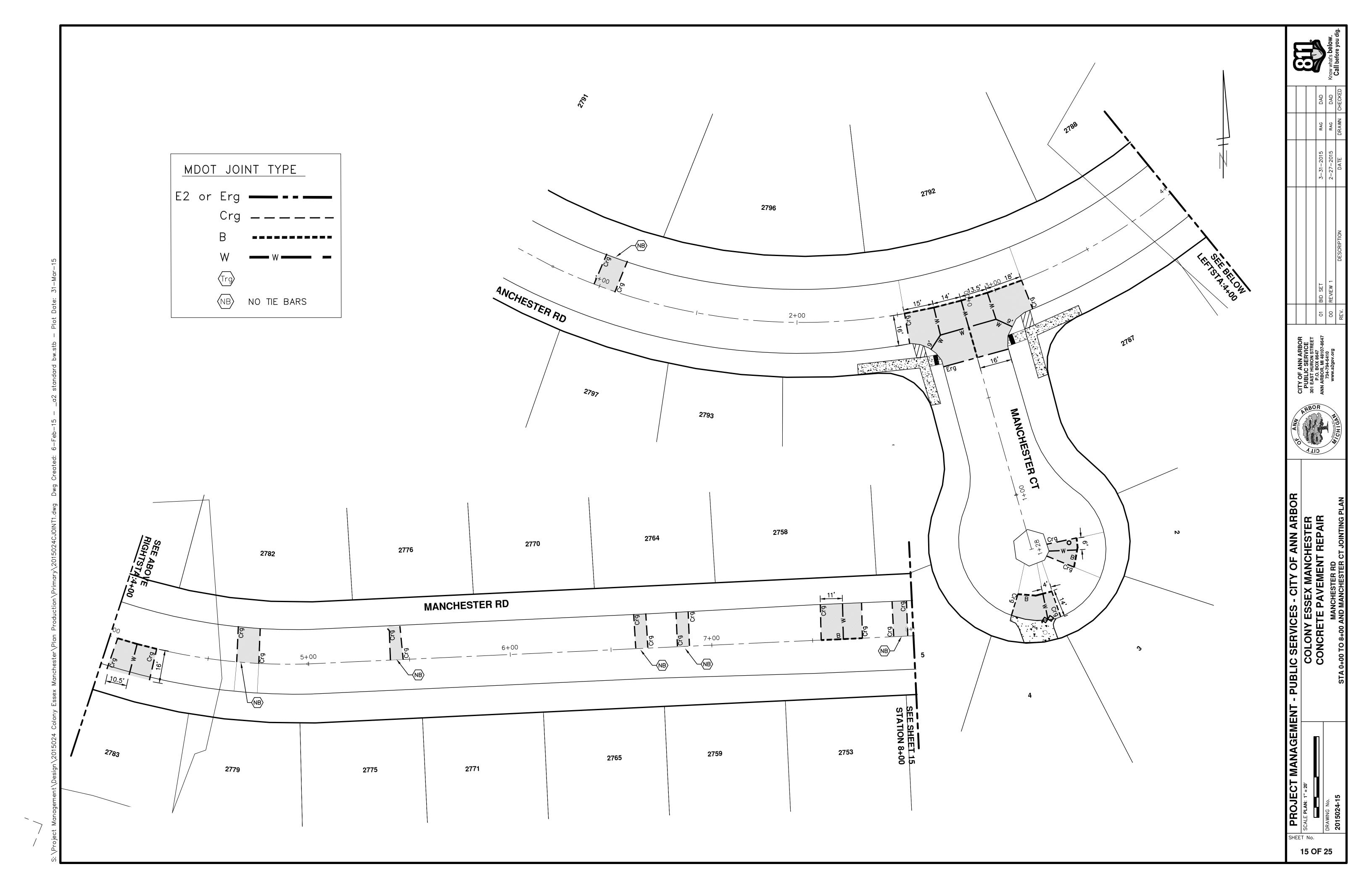
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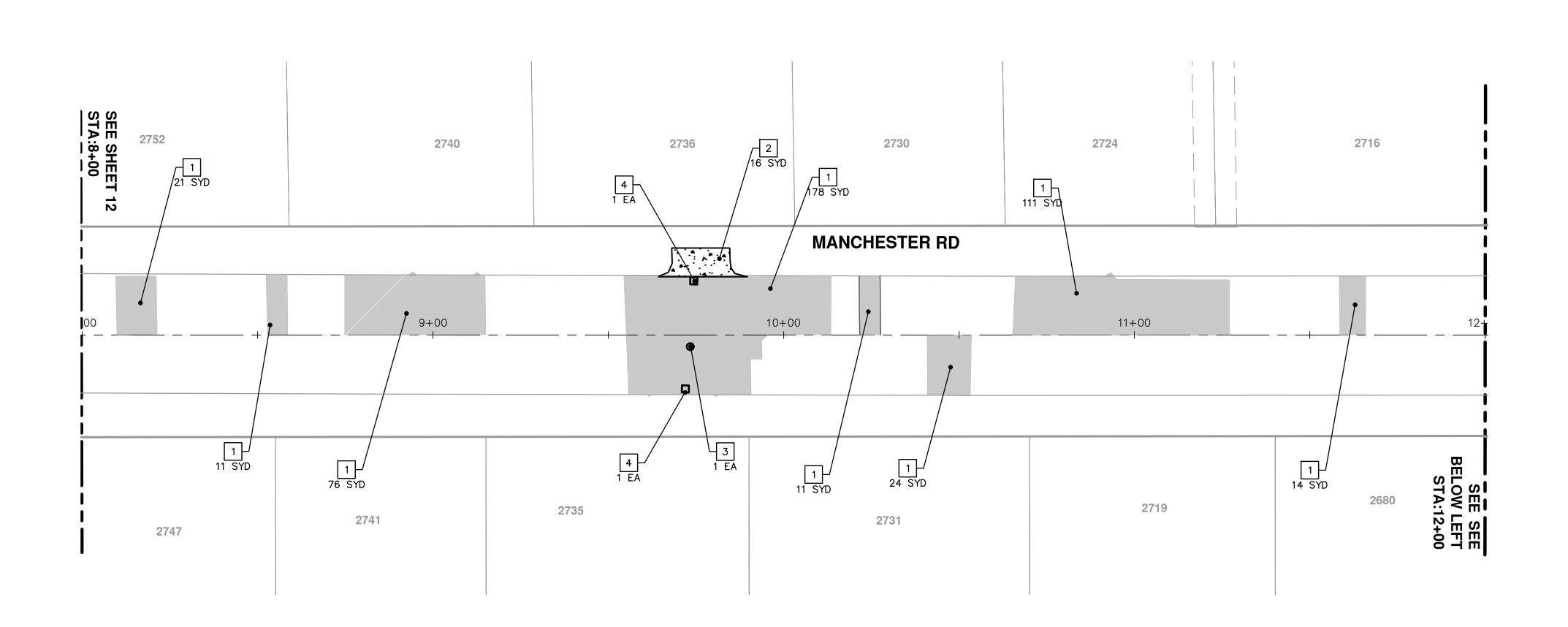
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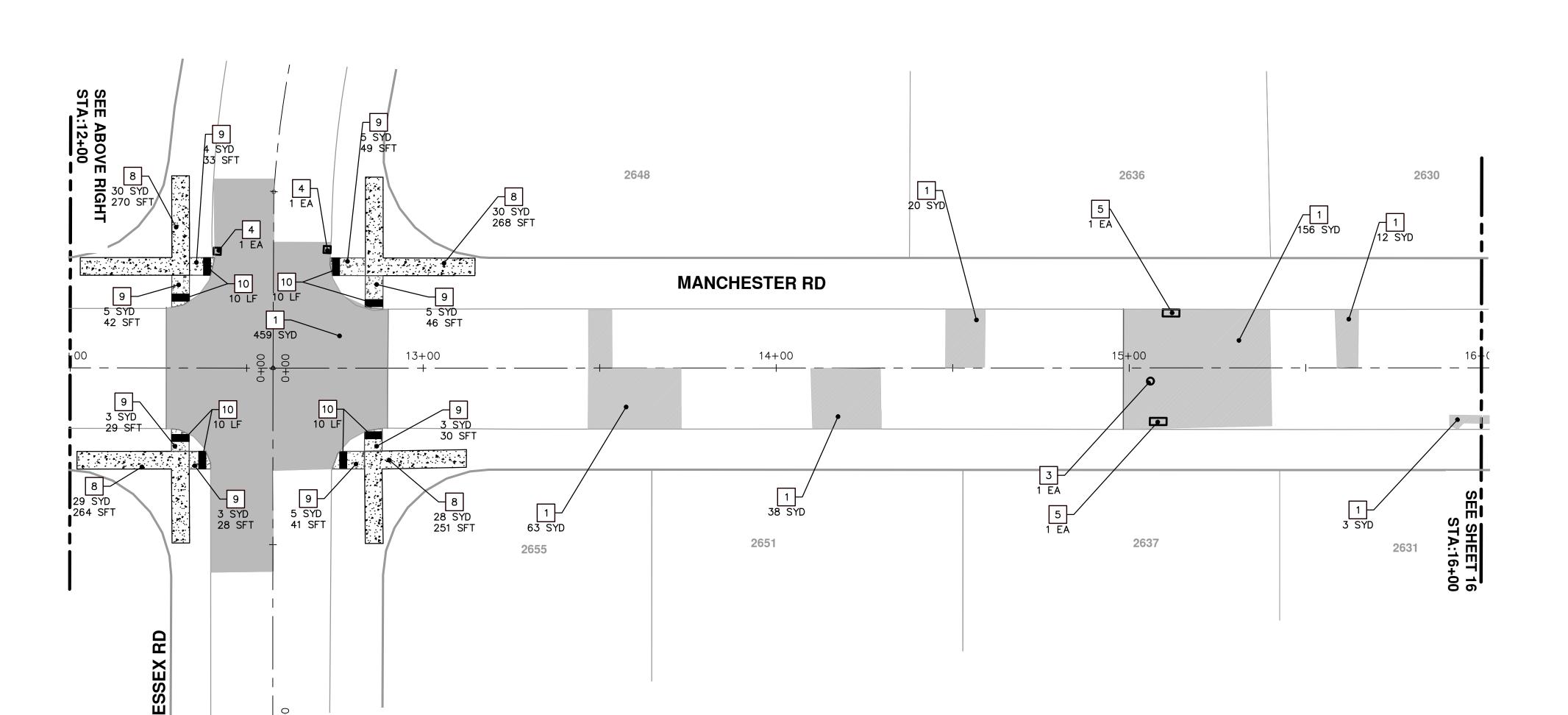
COLONY RD

STA 8+00 TO 16+00 JOINTING PLAN





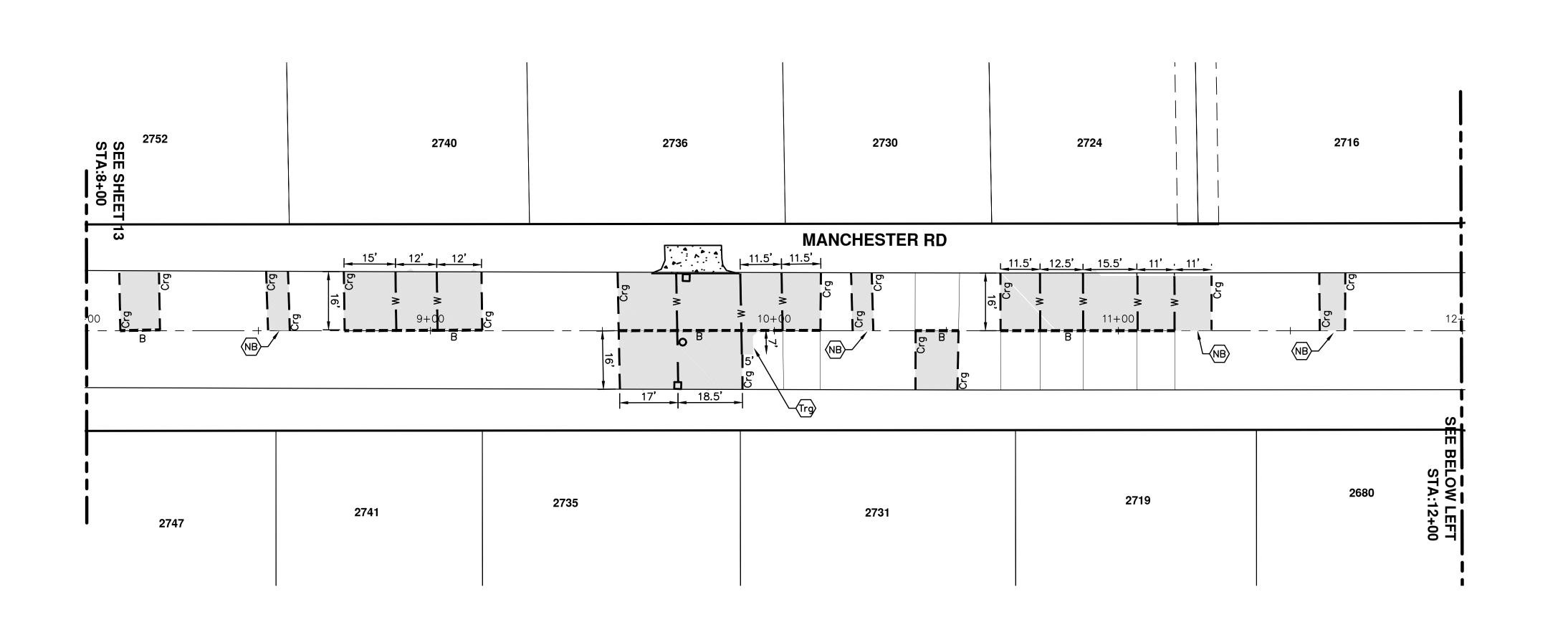


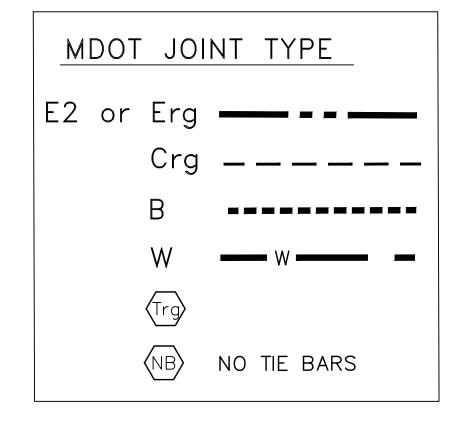


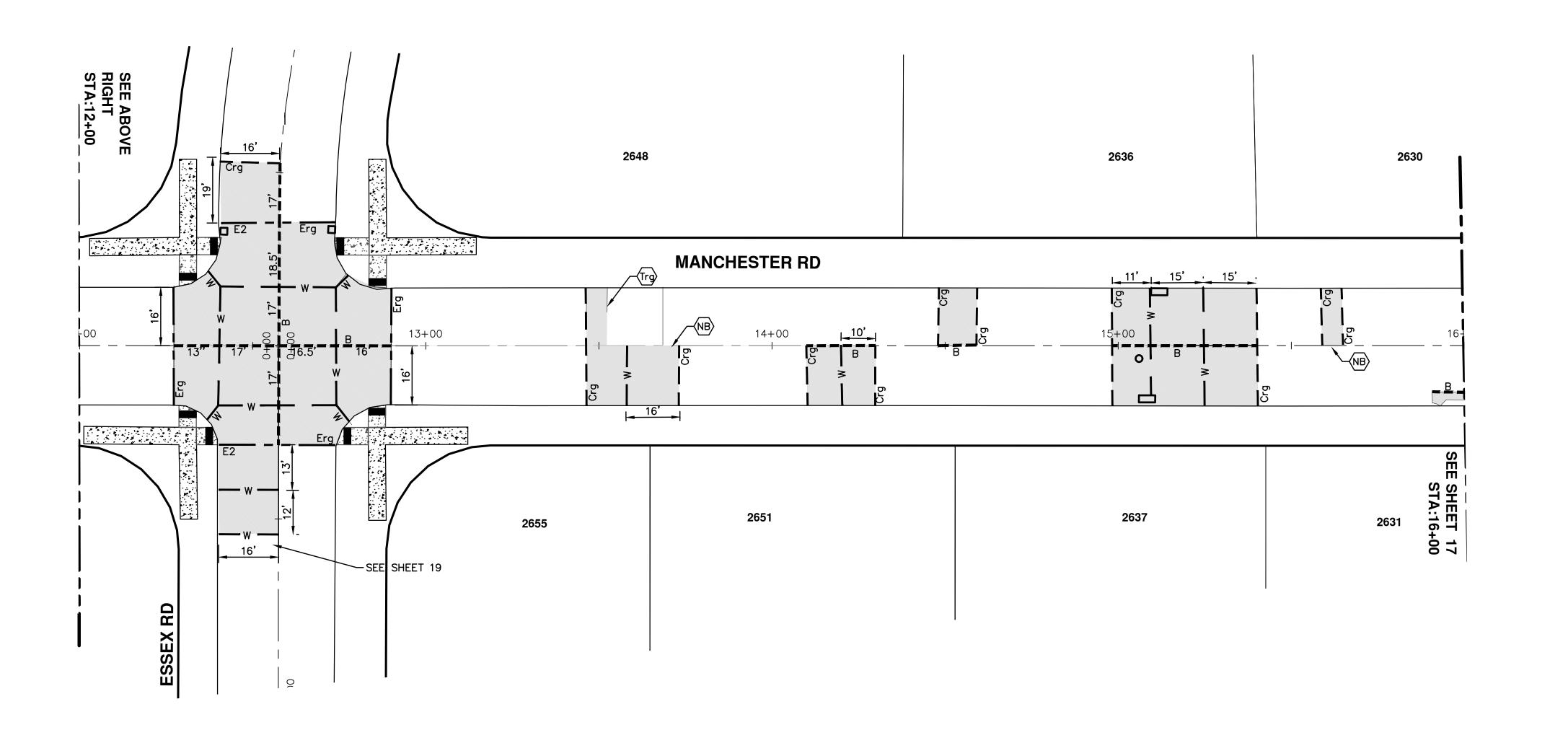
	CONSTRUCTION KEY
EY	DESCRIPTION
1	PAVT REMOVE AND CONC. PAVT. NONREINF. 6 INCH
2	PAVT REMOVE AND DRIVEWAY NONREINF CONC 6 INCH
3	DR. STR. COVER ADJ. CASE 1 AND DR. COVER TYPE B MODIFIED
4	DR. STRUCTURE REMOVE, DR. STRUCTURE 24 INCH, AND DR. COVER TYPE K MODIFIED
5	DR. STRUCTURE REMOVE, DR. STRUCTURE DOUBLE INLET, AND DR. COVER TYPE K MODIFIED
6	GATE BOX ADJ. CASE 1, AND MONUMENT BOX, OR GAS BOX
7	SIDEWALK REMOVAL
8	SIDEWALK REMOVAL, SIDEWALK CONC. 4 INCH
9	SIDEWALK REMOVAL, SIDEWALK RAMP CONC 6 INCH
10	DETECTABLE WARNING SURFACE

PUBLIC SERVICES - CITY OF ANN ARBOR	ANN OF CITY OF ANN ABBOD						
COLONY ESSEX MANCHESTER	PUBLIC SERVICE 301 EAST HURON STREET						
CONCRETE PAVEMENT REPAIR	P.O. BOX 8647 ANN ARBOR, MI 48107-8647	01 BID SET		3-31-2015	RAG	DAD	
MANCHESTER RD	734-794-6410	00 REVIEW 1		2-27-2015	RAG	DAD	Know what's below.
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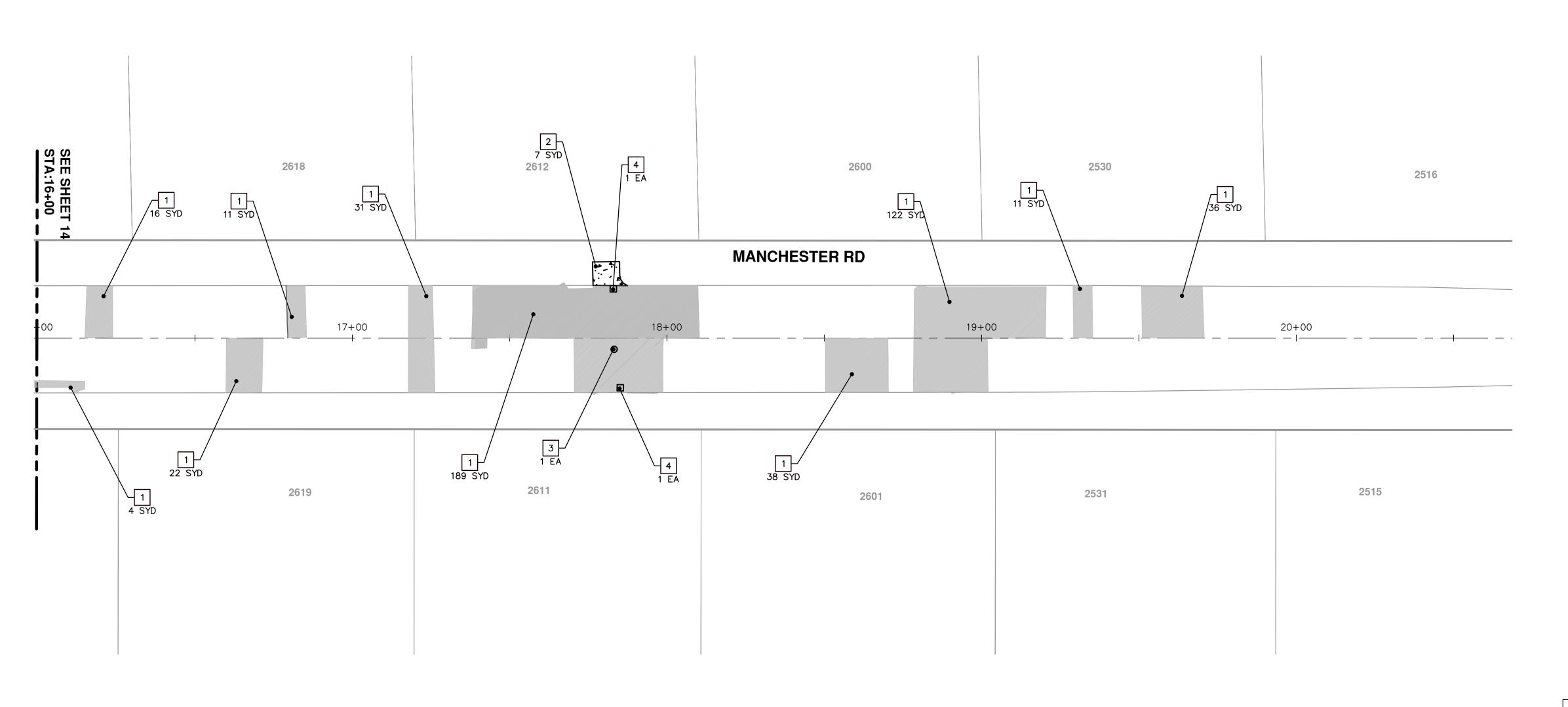
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3	DR. STR. COVER ADJ. CASE 1 AND DR. COVER TYPE B MODIFIED
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10	DETECTABLE WARNING SURFACE

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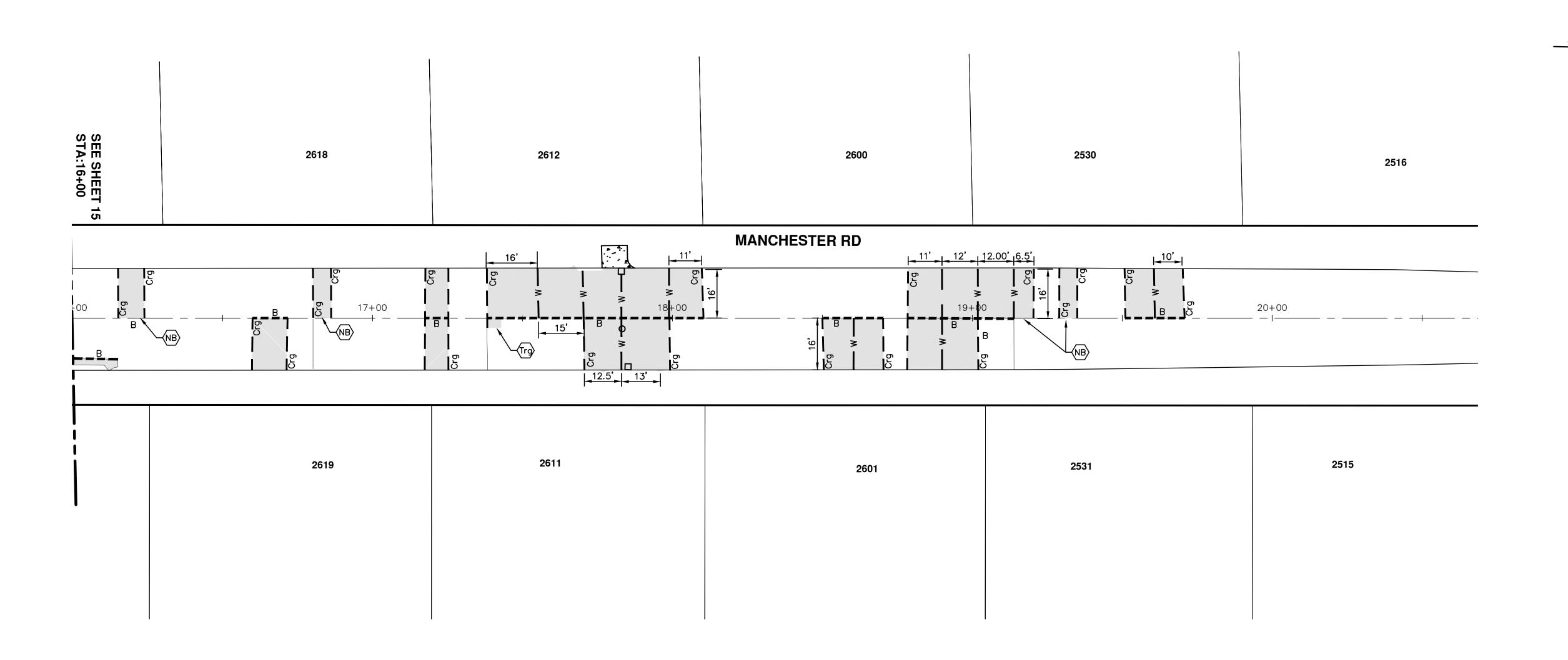
COLONY ESSEX MANCHESTER

CONCRETE PAVEMENT REPAIR

CONCRETE PAVEMENT REPAIR

MANCHESTER RD

STA 16+00 TO 20+00 REMOVAL AND CONSTRUCTION PLAN



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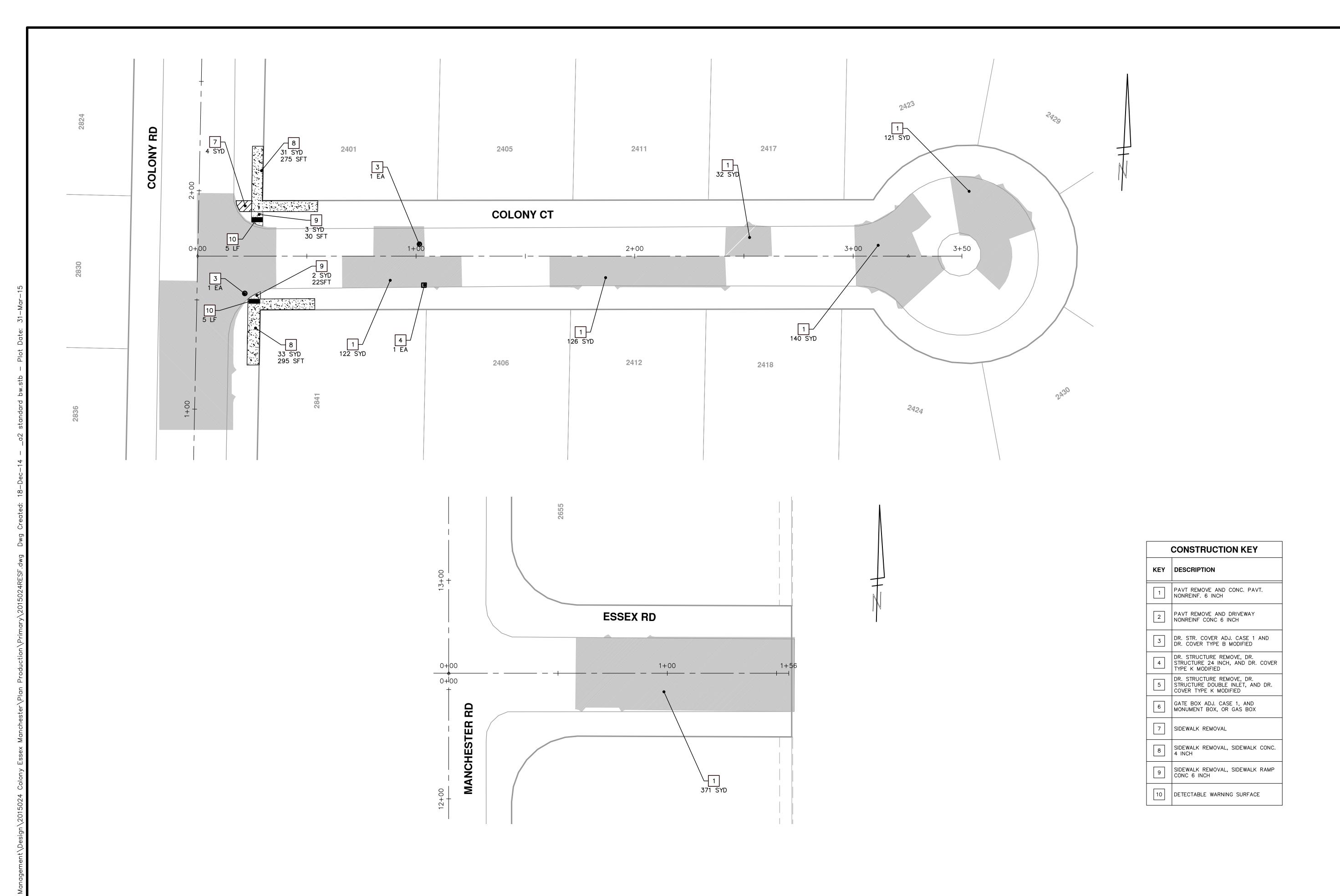
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STA 16+00 TO 20+00 JOINTING PLAN



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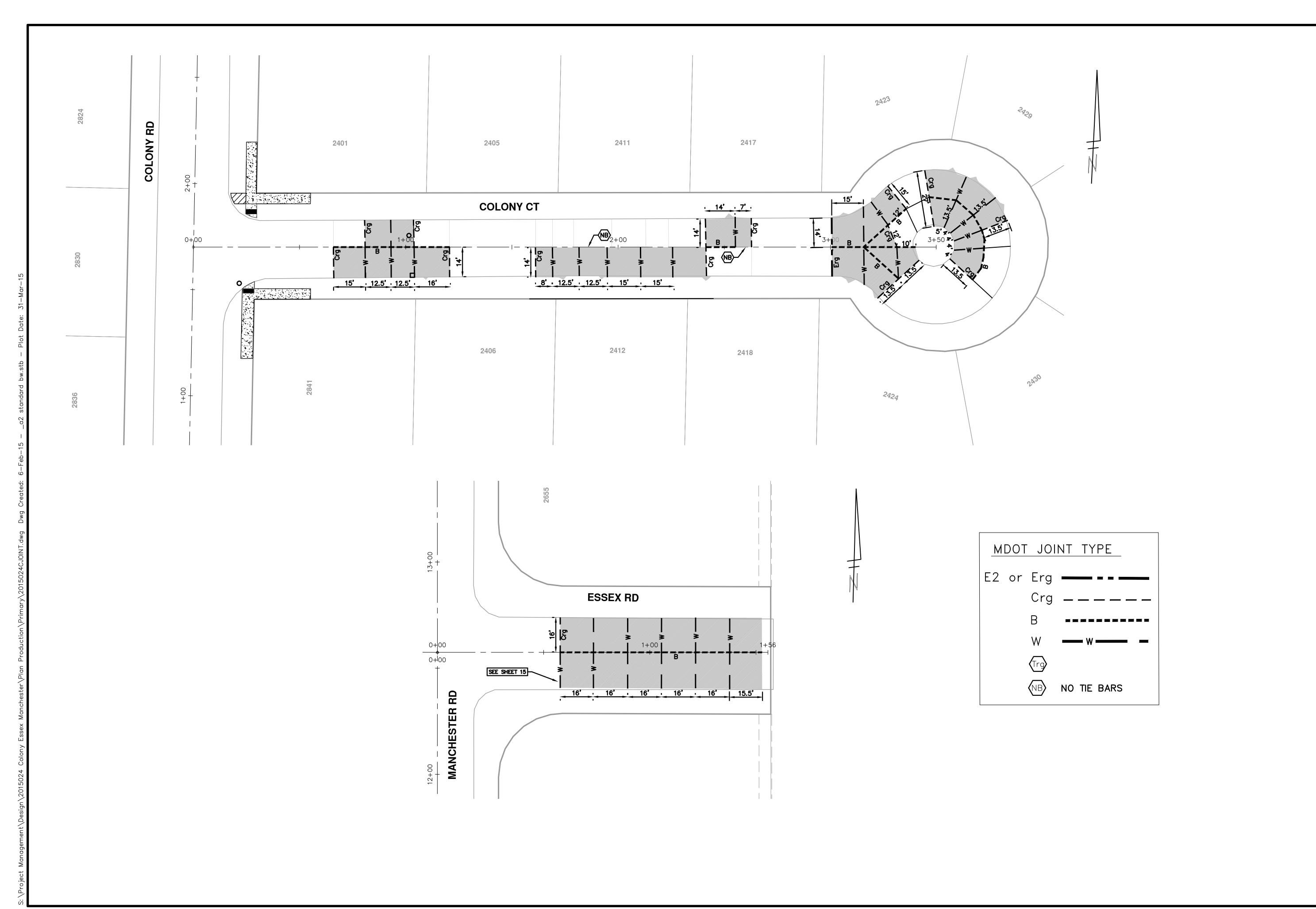
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COLONY ESSEX MANCHESTER

CONCRETE PAVEMENT REPAIR

COLONY CT AND ESSEX EAST

STA 0+00 TO 1+55 REMOVAL AND CONSTRUCTION PLAN 20 OF 25



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

SCALE PLAN: 1" = 20'

SCALE PLAN: 1" = 20'

COLONY ESSEX MANCHESTER

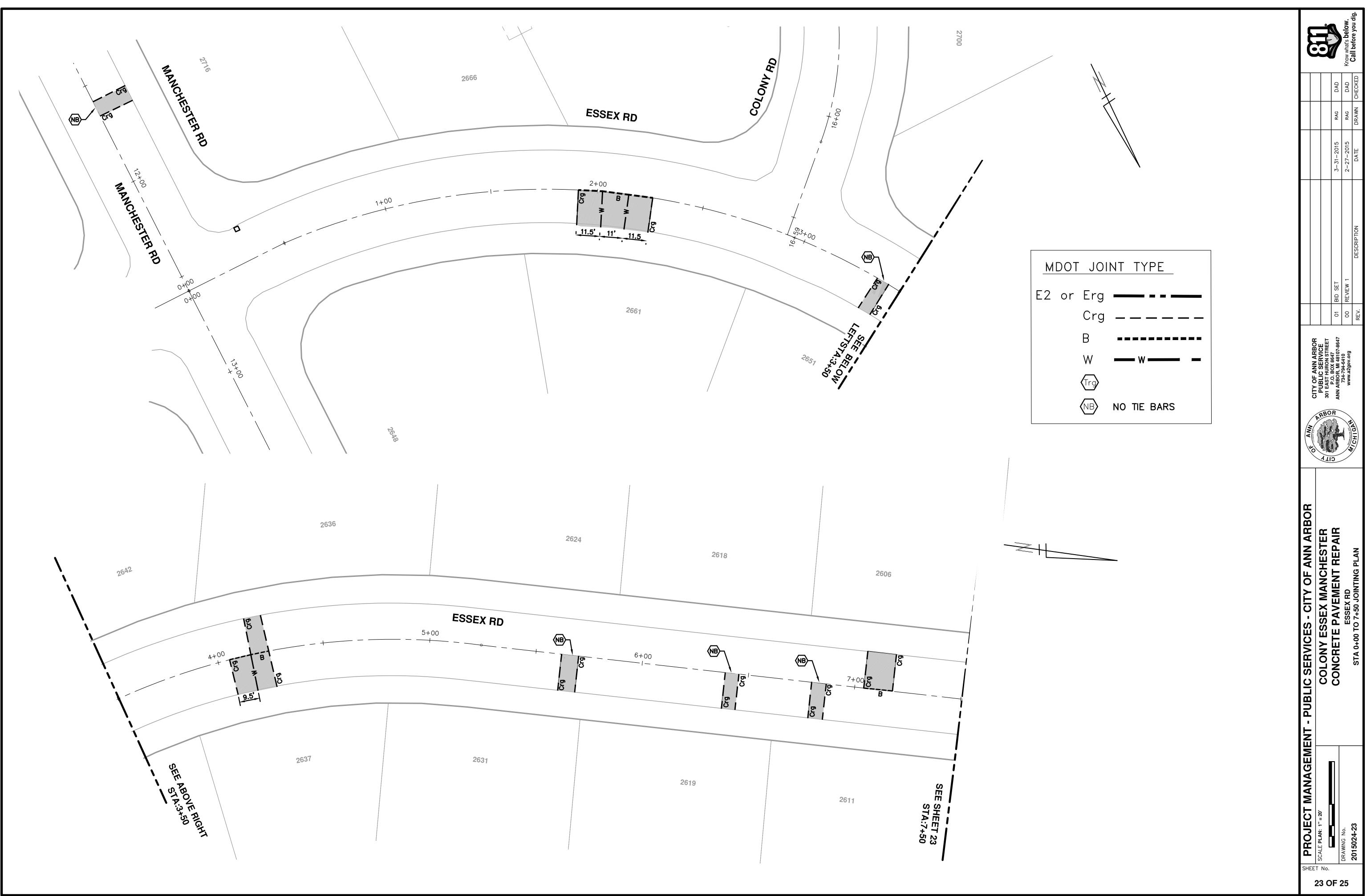
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CONSTRUCTION KEY KEY DESCRIPTION PAVT REMOVE AND CONC. PAVT. NONREINF. 6 INCH 2 PAVT REMOVE AND DRIVEWAY NONREINF CONC 6 INCH DR. STR. COVER ADJ. CASE 1 AND DR. COVER TYPE B MODIFIED DR. STRUCTURE REMOVE, DR. STRUCTURE 24 INCH, AND DR. COVER TYPE K MODIFIED DR. STRUCTURE REMOVE, DR.

STRUCTURE DOUBLE INLET, AND DR.

COVER TYPE K MODIFIED GATE BOX ADJ. CASE 1, AND MONUMENT BOX, OR GAS BOX 7 SIDEWALK REMOVAL 8 SIDEWALK REMOVAL, SIDEWALK CONC. 4 INCH 9 SIDEWALK REMOVAL, SIDEWALK RAMP CONC 6 INCH 10 DETECTABLE WARNING SURFACE

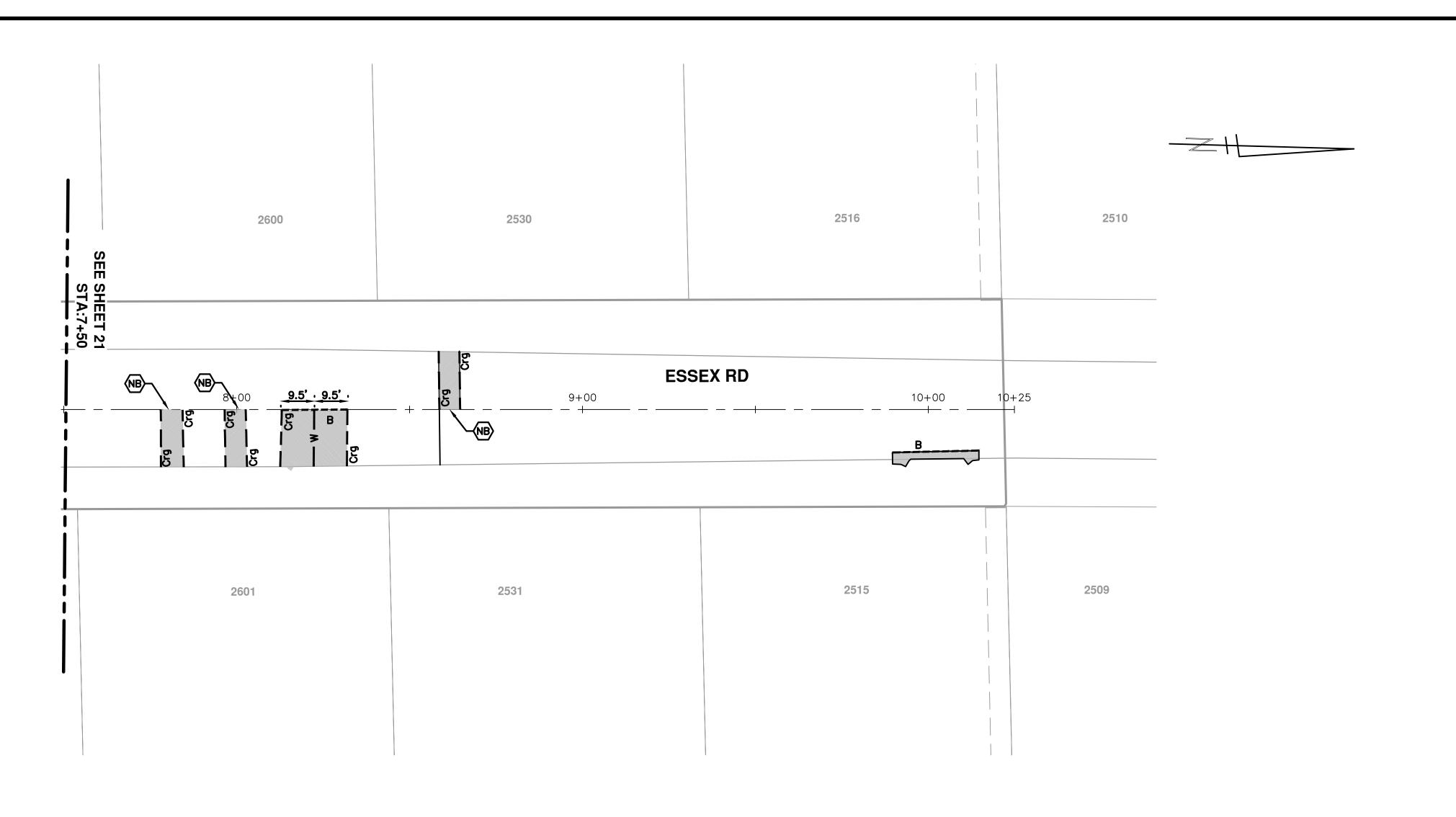
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ANN ARBOR, MI 48107-8
734-794-6410
www.a2gov.org



OLONY ESSEX MANCHESTER
ONCRETE PAVEMENT REPAIR
STA 7+50 TO 10+25 JOINTING PLAN

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