

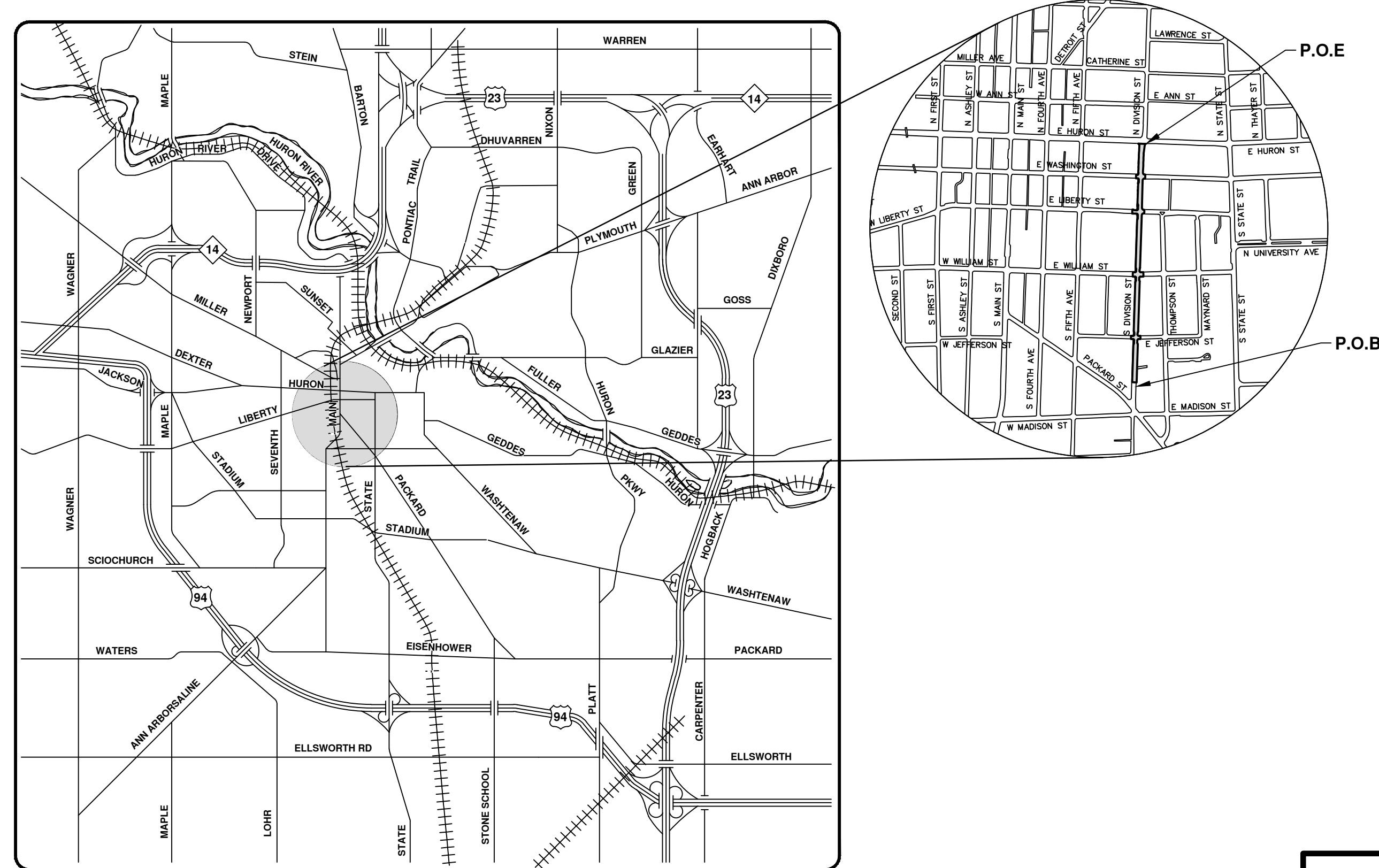
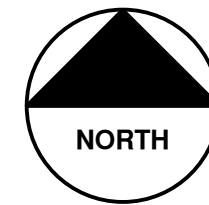


# CITY OF ANN ARBOR PROJECT MANAGEMENT

## S. DIVISION ST. RESURFACING Packard St To E Huron St

BID No. 4419, FILE No. 2015038

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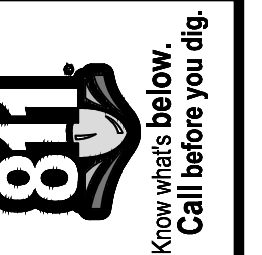
VICINITY MAP

### NOTES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

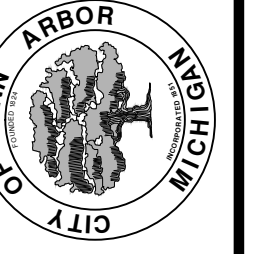
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



REV.	DATE	DESCRIPTION
02	1/21/2016	FINAL SUBMITTAL
01	11/24/2015	PROJECT MANAGER REVIEW
00	10/05/2015	SOIL BORING LOCATION SHEET

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-8647  
www.a2gov.org



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
S DIVISION STREET RESURFACING, PACKARD ST TO E HURON ST

SCALE  
DRAWING No.  
2015038-1  
SHEET No.  
1 OF 41

PROJECT MANAGEMENT SERVICE UNIT

PREPARED UNDER THE SUPERVISION OF

JENNIFER A. NELSON, P.E. - MI LICENSE No. 48125  
PROJECT MANAGER

1 / 2016  
DATE


**EXISTING LEGEND**

- FIRE HYDRANT
- GATE VALVE IN BOX
- GATE VALVE IN WELL
- STOP BOX
- WATER VAULT
- WELL
- CATCH BASIN (SQ)
- CATCH BASIN (RD)
- STORM MANHOLE
- NON-CURB CATCH BASIN (SQ)
- END SECTION
- SANITARY MANHOLE
- CLEAN-OUT
- POST
- PEDESTRIAN SIGNAL
- SIGN
- HAND HOLE
- ORNAMENTAL LIGHT
- FLOOD LIGHT
- UNKNOWN MANHOLE
- TELEPHONE MANHOLE
- TELEPHONE RISER
- GAS VALVE
- GAS VENT
- GAS BOX
- ELECTRICAL RISER
- TRANSFORMER
- UTILITY POLE
- LAMP POLE
- GUY ANCHOR
- GUY POLE
- MONITORING WELL
- MAILBOX
- SOIL BORING
- TRAVERSE POINT
- BENCH MARK
- IRON PIPE
- MON BOX

- WATER MAIN
- WATER MAIN ABANDONED
- STORM SEWER
- STORM SEWER ABANDONED
- SANITARY SEWER
- SANITARY SEWER ABANDONED
- GAS MAIN
- GAS MAIN (DEAD)
- ELECTRICAL OVER HEAD
- ELECTRICAL UNDER GROUND
- ELECTRICAL DUCT BANK
- TELEPHONE OVER HEAD
- TELEPHONE UNDER GROUND
- TELEPHONE DUCT BANK
- CABLE TV OVER HEAD
- CABLE TV UNDER GROUND
- FIBER OPTIC
- FIBER OPTIC DUCT BANK
- BOUNDARY
- BUILDING
- CENTERLINE OF DITCH
- CENTERLINE/CROWN OF ROAD
- CONTOUR MAJOR
- CONTOUR MINOR
- EDGE OF WATER
- FLOODPLAIN
- FENCE
- GRAVEL
- GUARDRAIL
- STONE WALL
- R.O.W.
- TREELINE
- WETLAND
- EDGE OF BRUSH
- HEDGE
- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- SHRUB (DECIDUOUS)
- STUMP
- TREE TO REMAIN & PROTECT (DECIDUOUS)  
CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREST HEIGHT (INCHES) X 10
- TREE TO REMAIN & PROTECT (CONIFEROUS)  
CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREST HEIGHT (INCHES) X 10

**PROPOSED LEGEND**

- HYDRANT (PLAN)
- WATER GATE WELL
- REDUCER
- WATER GATE VALVE
- WATER STOP BOX
- WATER VAULT
- INLET
- DOUBLE INLET
- INLET JUNCTION CHAMBER
- ROUND CATCH BASIN
- STORM MANHOLE
- DRAIN ARROW
- FLARED END SECTION
- SANITARY MANHOLE
- CLEAN-OUT
- SIGN
- PUSH BUTTON
- HAND HOLE
- WATER MAIN
- STORM SEWER
- SANITARY SEWER
- FIBER OPTIC
- ELECTRICAL
- CENTERLINE OF DITCH
- CENTERLINE OF ROAD
- FENCE
- GRAVEL
- SILT FENCE
- PROTECTIVE FENCE
- GUARDRAIL
- LOT/UNIT
- CURB
- TEMPORARY GRADING PERMIT
- CONTOUR MAJOR
- CONTOUR MINOR
- WATER EASMENT
- STORM EASEMENT
- SANITARY EASEMENT
- R.O.W.
- LIMITS OF CONSTRUCTION
- LIMIT OF GRADING
- STONE WALL
- DETECTABLE WARNING
- ASPHALT
- CONCRETE
- SIDEWALK
- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- TREE TO BE REMOVED (DECIDUOUS)
- TREE TO BE REMOVED (CONIFEROUS)
- STUMP TO BE REMOVED



**CITY OF ANN ARBOR**  
PUBLIC SERVICES  
301 EAST HURON STREET  
PO BOX 8647  
ANN ARBOR MI 48107-8647  
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REV.	DATE	DESCRIPTION
02	1/21/2016	FINAL SUBMITTAL
01	11/24/2015	PROJECT MANAGER REVIEW
00	10/05/2015	SOIL BORING LOCATION SHEET

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**

**S. DIVISION ST. RESURFACING**

**COVER AND NOTES**

**LEGEND**

SCALE PLAN: #####

DRAWING No. **2015038-2**

SHEET No.

**2 OF 41**

**CONSTRUCTION NOTES:**

1. Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when 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. The Contractor is to take special care to protect the existing water main and be responsible for maintaining consistent water service.
5. During non-working hours no trench shall remain open; any open trench shall be properly secured with protective fencing. This work shall be included in the item of work "General Conditions".
6. Trenches for new water services shall be excavated to MIOSHA and City of Ann Arbor Field Services requirements.
7. City of Ann Arbor Field Services will install the corporation and copper service lead(s) to transfer the connection(s). If an existing water service is found to be failing or is not copper, the lead will be replaced to the curb box by Field Services.
8. For the installation of corporations, or any other related activities, the Contractor shall not receive additional compensation for delays due to the scheduling of or coordination with the City of Ann Arbor Field Services.
9. The Contractor shall backfill trenches in accordance with Trench Detail specified on plans. This work shall be included in the item of work "Excavate and Backfill for Water Service Tap and Lead". All concrete removals and replacements required for this work will be paid for separately.
10. All ductile iron pipe and fittings shall be polyethylene wrapped per ANSI/AWWA C105/A21.5.
11. Cor-blu bolts to be used at all mechanical water main joints at hydrants and Megalug fittings
12. The Contractor shall construct, flush, and bacteriologically test the water main per Detailed Specification "Water Main Installation and Testing" and as approved by the Engineer. All chlorinated water shall be discharged directly into an approved sanitary sewer. The Contractor shall supply all necessary hoses, fittings and the like to accomplish this work.
13. Water main fittings, other than those specifically listed as separate pay items, which are required to complete the work, such as blow-off assemblies, concrete thrust blocks, solid sleeves and mechanical plugs, shall not be paid for separately, but shall be included in the pipe pay items.
14. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
15. All fittings, hydrants, valves and castings removed during construction are the property

- of the City of Ann Arbor. The Contractor within 48 hours 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.
16. Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
  17. The Contractor shall be responsible for the continuous maintenance of the temporary road surface and soil erosion control measures within the construction area until the full completion of the project. This work shall be included in the item of work "General Conditions".
  18. All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
  19. Sawn sewer pipe connections shall be coupled with a Fernco flexible coupling and a stainless steel shear ring.
  20. The location of material stock piles and on-site staging areas to be approved by the Engineer.
  21. For mainline paving, the width of the mat for each pass of the paver shall be not less than 10.5' or greater than 15', as directed by the Engineer. The Engineer will direct the layout of the longitudinal joints during construction.
  22. All structures 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.
  23. Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or types.
  24. 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.
  25. Where sewer and water main are to be removed & replaced or added, all pipe shall be installed using Trench Detail I, Modified detailed in the specifications or shown on Plans. Backfill for sewer and water construction shall be MDOT Granular Material, Class II, Modified.
  26. 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."
  27. The pay item of Earth Excavation and Embankment (CIP) shall be paid at plan quantity unless the Engineer determines that there has been a significant change from the work shown on the plans. See the 2012 MDOT Standard Specifications for Construction, section 109.01 for more details.

**GENERAL**  
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 THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND 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/SOIL 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 PALLIATIVE 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, MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- 1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
- 1.3. INSTALL WATER MAIN, STORM SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF NEW DRAINAGE INLETS.
- 1.4. PERFORM PAVEMENT REPAIR AND CONSTRUCTION OF SIDEWALK AND CURB AND GUTTER.
- 1.5. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.
- 1.6. INSTALL SLOPE RESTORATION IN ALL DISTURBED AREAS.
- 1.7. CLEAN OUT STORM SEWER SYSTEMS.
- 1.8. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.
- 1.9. ALL TEMP. SOIL EROSION CONTROL MEASURES MUST BE REMOVED, WITH ENGINEERS APPROVAL, PRIOR TO FINAL INSPECTION.

NOTE: 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.

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

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	

**PERMITS REQUIRED TO BE OBTAINED BY THE CITY OF ANN ARBOR PRIOR TO THE BEGINNING OF CONSTRUCTION.**

PERMIT	ISSUING AUTHORITY
M.D.E.Q. WATER MAIN CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
M.D.O.T. RIGHT-OF-WAY PERMIT	MICHIGAN DEPARTMENT OF TRANSPORTATION

**CONTACT INFORMATION**

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 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	MATT WALDSMITH (734) 794-6350
FORESTRY		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
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	CLAY COMBEE (734) 397-4112
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	(734) 996-2135
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016

**MISCELLANEOUS QUANTITIES**

ITEM DESCRIPTION	QUANTITY
BRICK PAVERS, REMOVE AND REPLACE, ANY TYPE	500 SFT
EROSION CONTROL, INLET PROTECTION, FABRIC DROP	17 EA
EMBANKMENT, CIP	239 CYD
EXCAVATION, EARTH	345 CYD
GEOSYNTHETIC PAVING LAYER	9,929 SYD
GRANULAR MATERIAL, CL II	138 CYD
HAND PATCHING, HMA LVSP	346 TONS
PAVEMENT JOINT AND CRACK REPAIR - DETAIL 7	240 FT
PAVEMENT JOINT AND CRACK REPAIR - DETAIL 8	120 FT
POINT EXISTING STRUCTURE	5 EA
PROTECTIVE FENCE	1000 FT



	JAN	JAN	AMW	CHECKED
	JKA	JKA	JKA	DRAWN
	1/21/2016	11/24/2015	10/05/2015	DATE
	FINAL SUBMITTAL	PROJECT MANAGER REVIEW	SOIL BORING LOCATION SHEET	DESCRIPTION
02	01	00		REV.

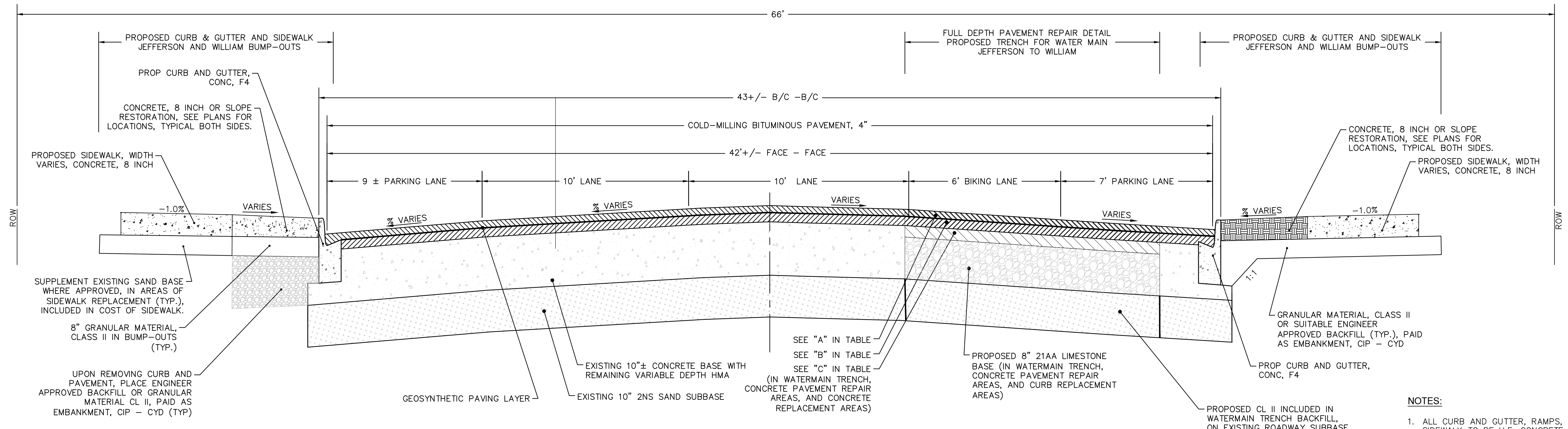
CITY OF ANN ARBOR  
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301 EAST HURON STREET  
PO BOX 886  
ANN ARBOR MI 48106-0867  
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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**S. DIVISION ST. RESURFACING**  
COVER AND NOTES  
STD NOTES  
SCALE PLAN: #####  
DRAWING No. 2015038-3  
SHEET No. 3 OF 41

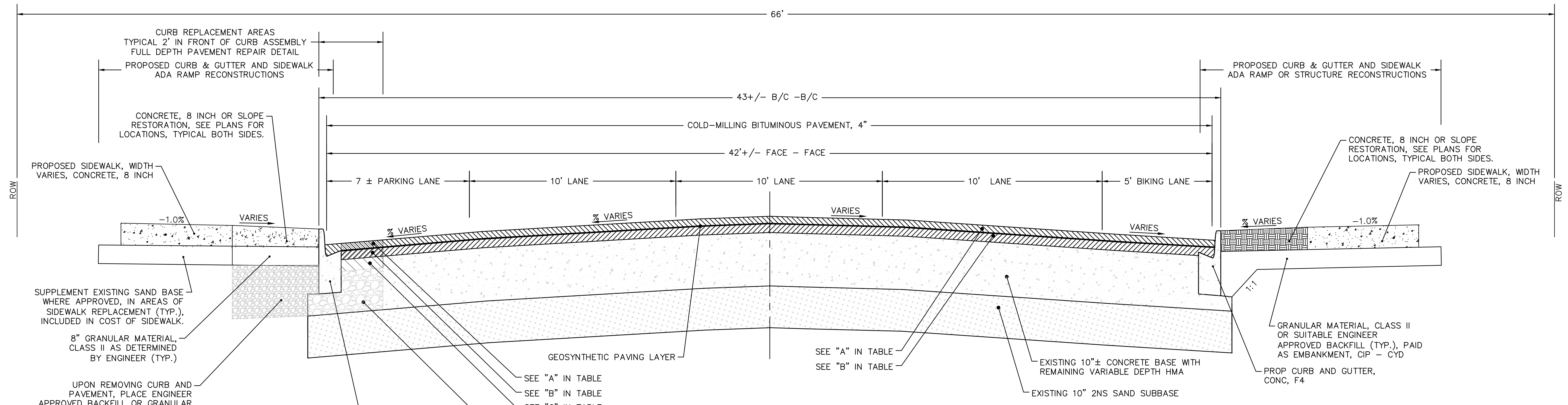


S:\Project Management\Design\2015038 Division\Plan Production\2015038 DET.dwg Dwg Created: 4-Jan-16 - \_o2 standard bw.stb - Plot Date: 5-Feb-16



**S. DIVISION ST  
TYPICAL SECTION**  
STA. POB TO 13+50  
N.T.S.

- NOTES:**
1. ALL CURB AND GUTTER, RAMPS, AND SIDEWALK TO BE H.E. CONCRETE.
  2. ALL RAMPS AND SIDEWALK TO HAVE FIBER-MESH REINFORCEMENT.
  3. SLOPE RESTORATION CONSISTS OF 4" TOPSOIL, THM SEED MIXTURE, CLASS A FERTILIZER, AND MULCH BLANKET.
  4. ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS



**S. DIVISION ST  
TYPICAL SECTION**  
STA. 13+50 TO POE  
N.T.S.

TYPICAL ROAD CROSS SECTION APPLICATION TABLE						
ITEM	MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI	BINDER	LOCATION/NOTES
A	HMA, 5E3	165 LB/SYD	1.5000	260	PG 64-28	WEARING COURSE
B	HMA, 4E3	275 LB/SYD	2.5000	-	PG 64-28	LEVELING COURSE
C	HMA, 3E3	410 LB/SYD	3.75	-	PG-58-22	BASE COURSE

**S DIVISION ST. PROPOSED CROSS SECTION**

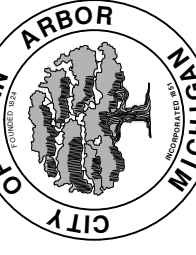
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

S. DIVISION ST. RESURFACING

SCALE PLAN: NTS

DRAWING No. 2015038 - 4

SHEET No. 4 OF 41



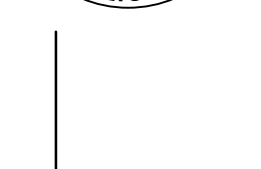
TYPICAL DETAIL

811 Know what's below. Call before you dig.

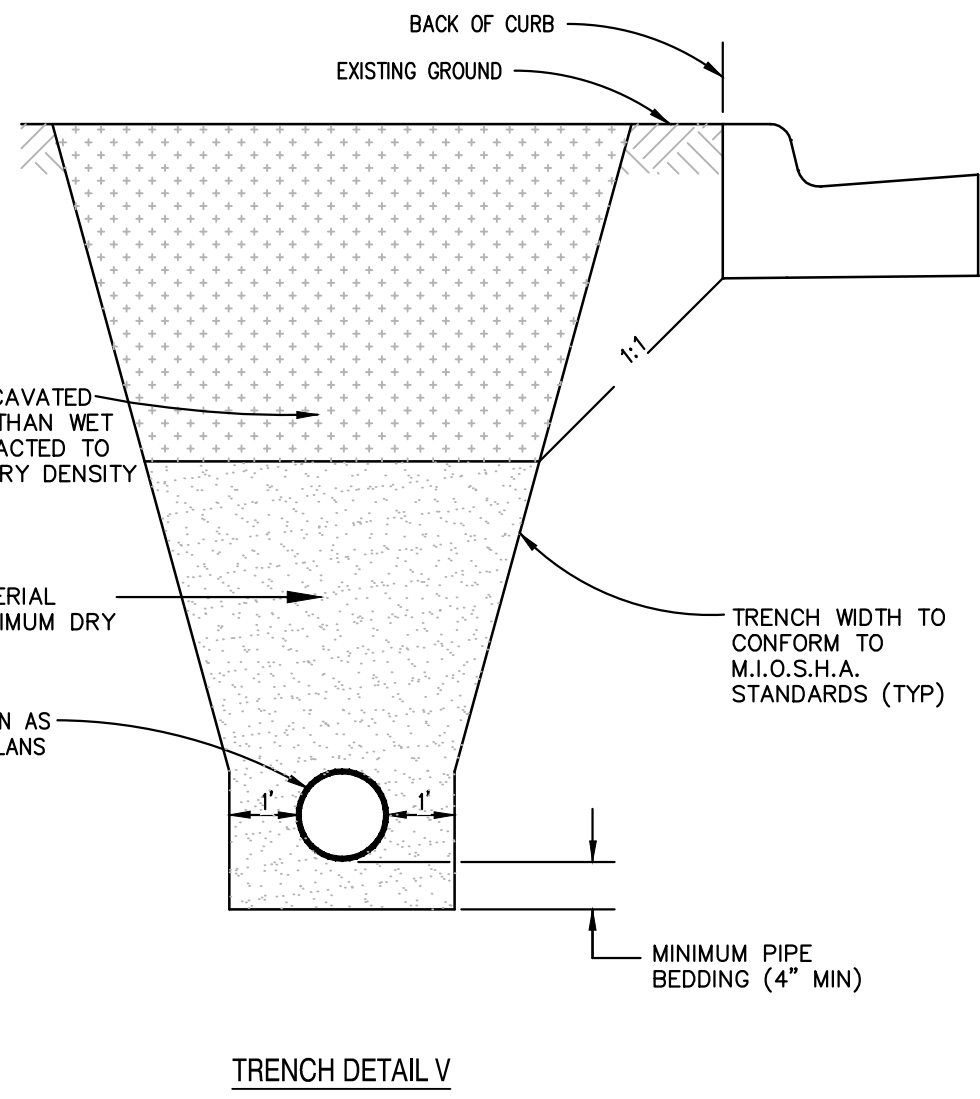
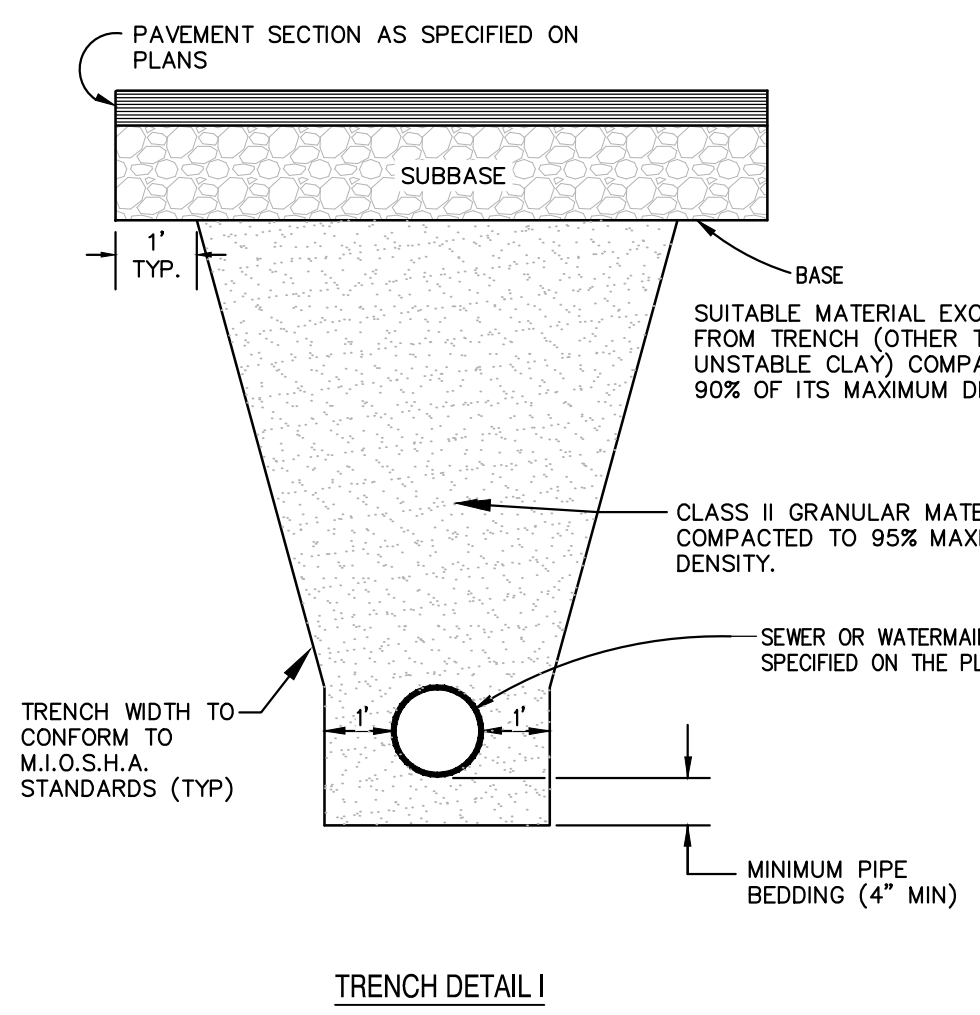
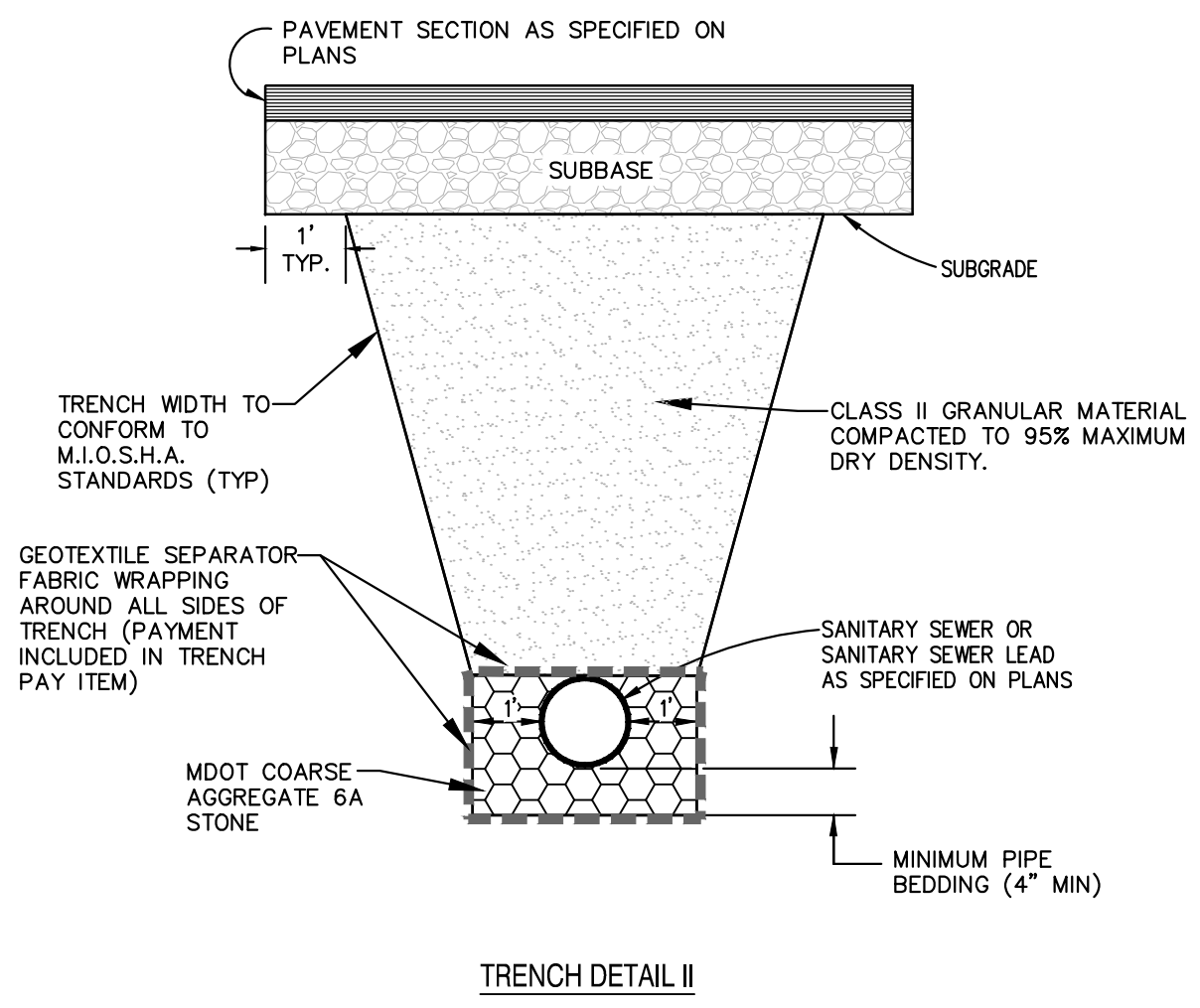
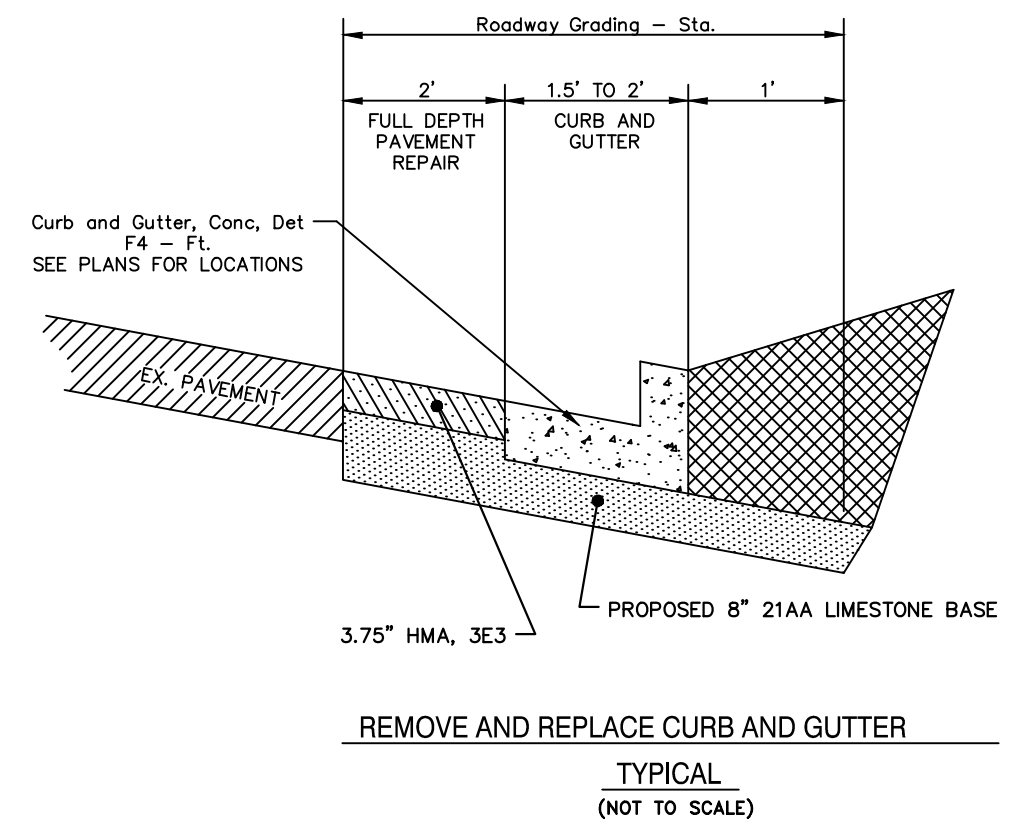
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	AMENDMENT	02/29/2012	RML/J.D.F.	CEC
000	OUT FOR BID	MARCH, 2012	RML/J.D.F.	CEC

01	AMENDMENT	02/29/2012	RM/LJ, DPF, JWF, MAS	CEC	CHECKED
000	OUT FOR BID	MARCH, 2012		DATE	DRAWN

					DESCRIPTION
					REV.



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
S. DIVISION ST. RESURFACING  
ROAD DET



**UTILITY TRENCH DETAILS**

- NOTES:**
- PAVEMENT REMOVAL IS INCLUDED IN PRICE OF UTILITY SPECIFICATION
  - DENSITY TESTING PER CITY OF ANN ARBOR SPECIFICATION
  - TRENCH DETAILS SHOW TYPE OF BACKFILL AND SURFACE RESTORATION ONLY.
  - ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS

**SILTSACK® SPECIFICATIONS**

NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

**REGULAR FLOW SILTSACK®**

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

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC <sup>-1</sup>

**HI-FLOW SILTSACK®**

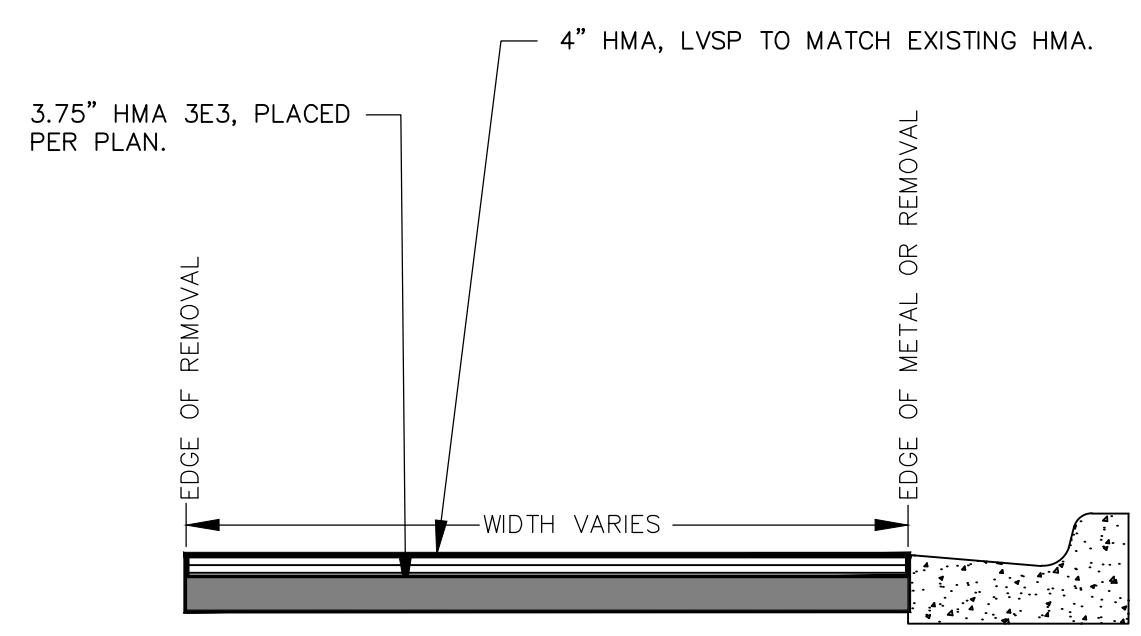
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC <sup>-1</sup>

**OIL-ABSORBANT SILTSACK®**

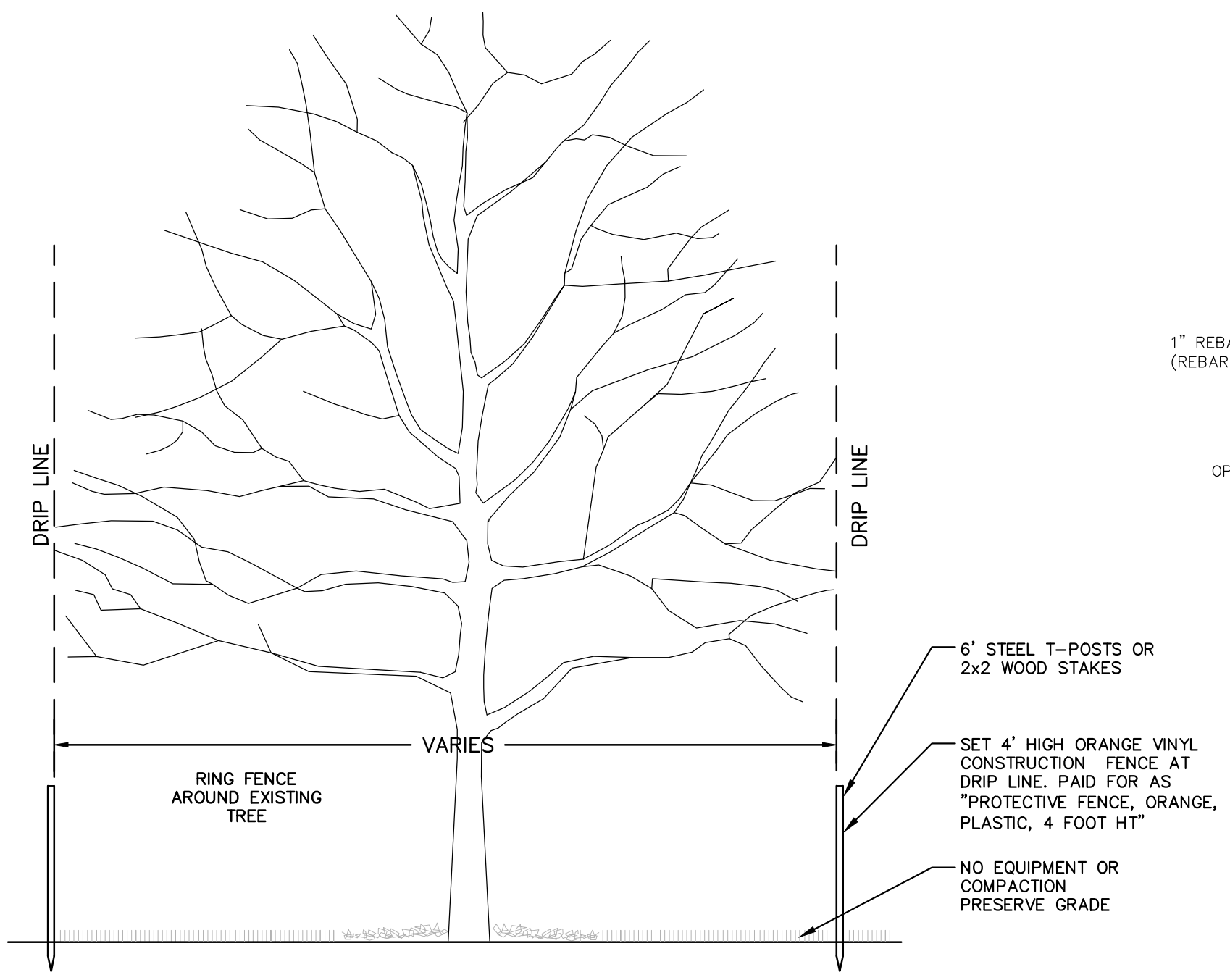
(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

DEPENDING ON YOUR PARTICULAR APPLICATION, THE SILTSACK® CAN BE MADE FROM EITHER ONE OF THE ABOVE FABRICS WITH AN OIL-ABSORBANT FILLOW INSERT OR, MADE COMPLETELY FROM AN OIL-ABSORBANT SILTSACK® WITH A WOVEN FILLOW INSERT.

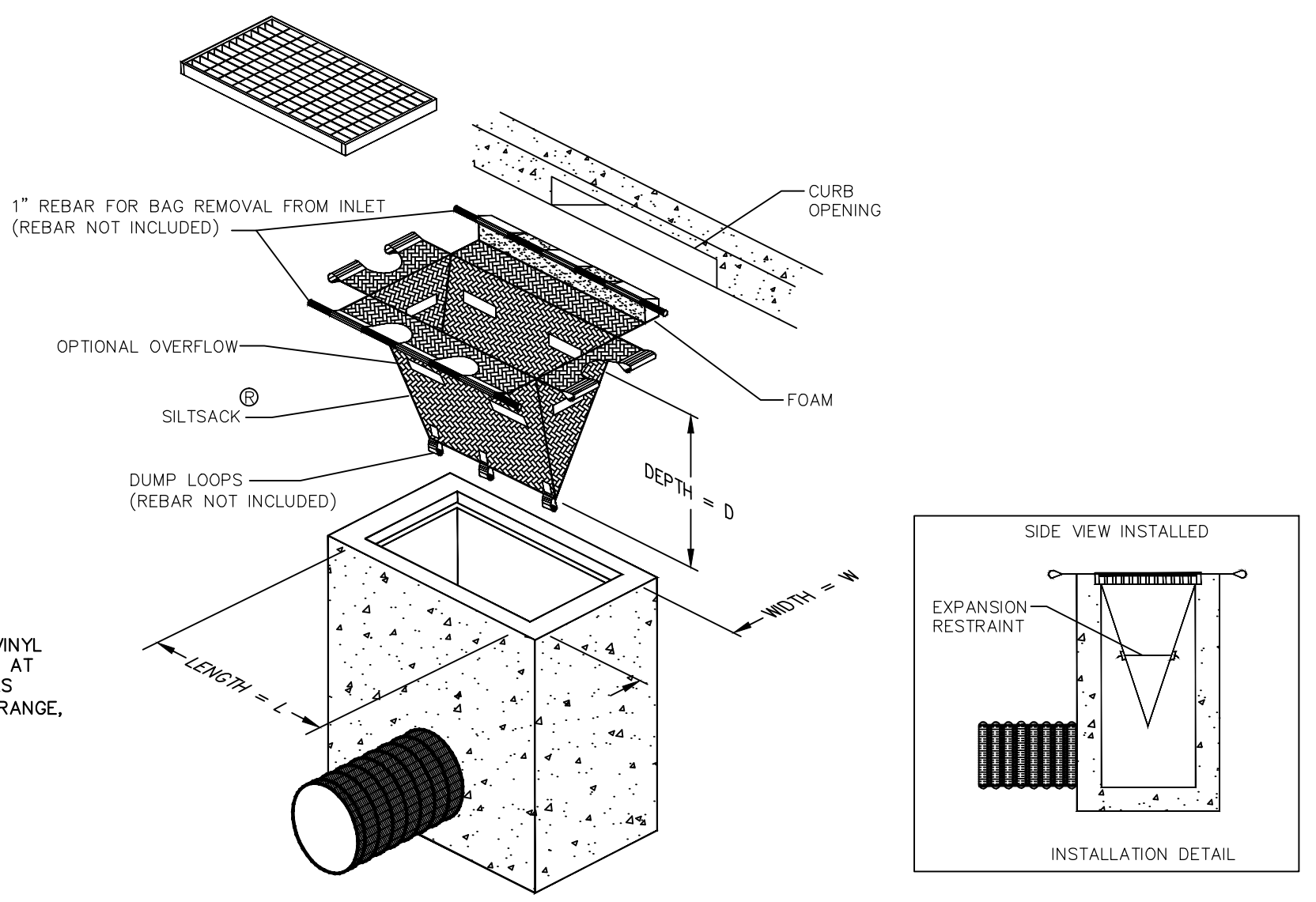


TO BE APPLIED TO WATER MAIN TRENCHES AND AT BUMP-OUTS TO MAINTAIN TRAFFIC. TO BE USED AT ENGINEER'S DIRECTIVE.

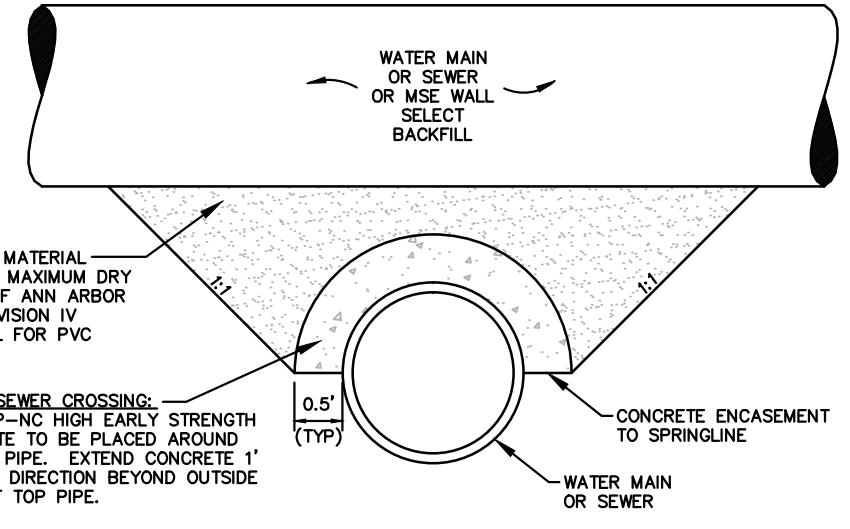
**HAND PATCHING**



**TREE PROTECTION DETAIL**

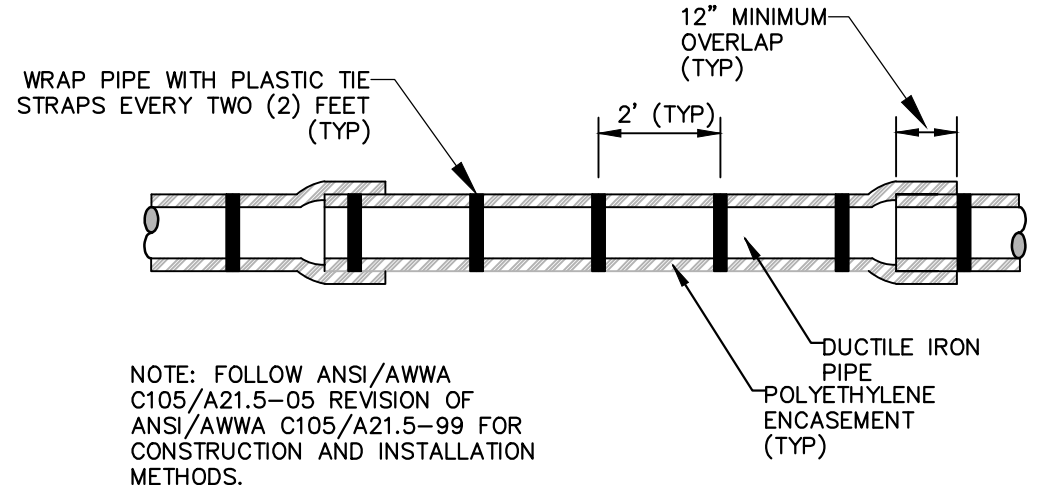


**INLET FILTER (MODIFIED)**



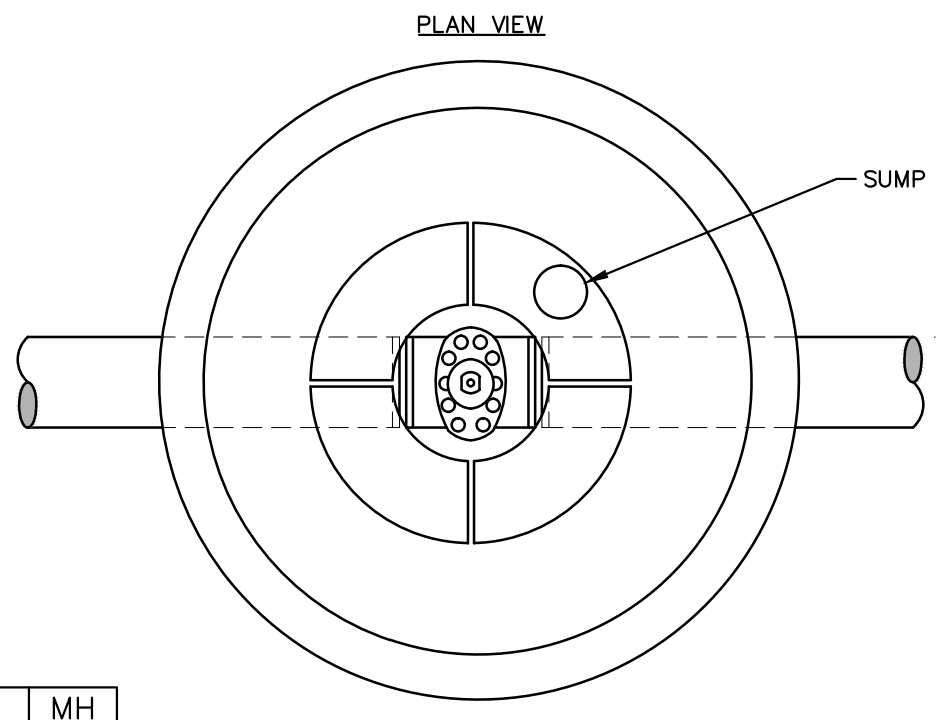
**CONCRETE UTILITY SADDLE**

APPLIES TO WATER AND/OR SEWER CROSSINGS WITH LESS THAN 1.5' OF VERTICAL CLEARANCE - SEE PLANS FOR LOCATIONS

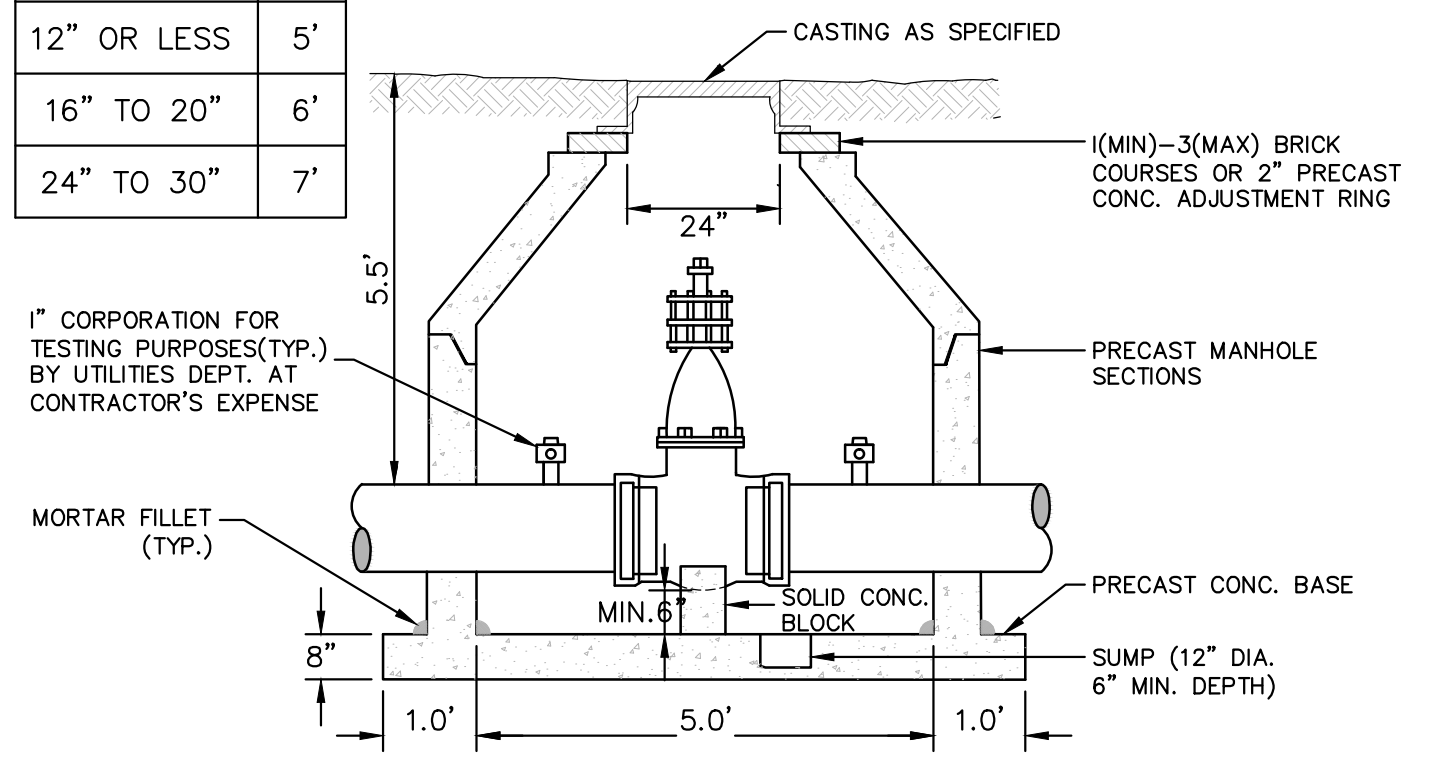


**POLYETHYLENE ENCASUREMENT**

APPLIES TO: POLYETHYLENE WRAPPED D.I. WATERMAIN SEE PLANS FOR LOCATIONS



PIPE SIZE	MH DIA.
12" OR LESS	5'
16" TO 20"	6'
24" TO 30"	7'



- NOTES:
1. ALL LIFT HOLES AND JOINTS SHALL BE MORTARED BOTH INSIDE AND OUTSIDE.
  2. ALL JOINTS MADE WATER TIGHT WITH RUBBER GASKET JOINTS.
  3. NO STEPS PERMITTED

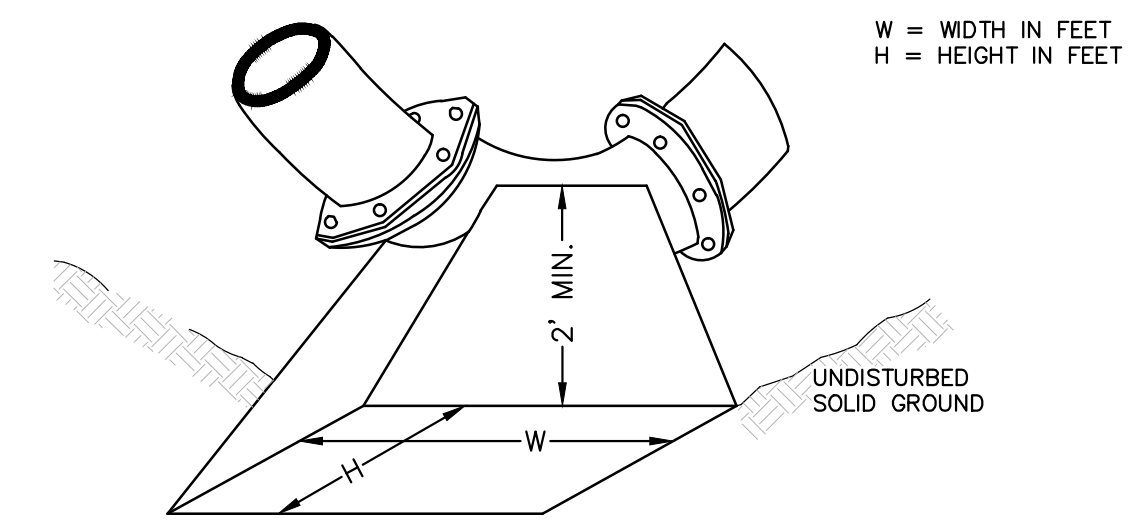
**GATE WELL FOR MAIN 16" & SMALLER**

CITY OF ANN ARBOR STANDARD SD-W-3 APPLIES TO: SEE PLANS FOR LOCATIONS

MINIMUM STANDARDS

REACTION BACKING: The Class "A" concrete at the Fitting face shall extend to within (2) inches of the bell and shall extend from the fitting face a minimum of (2) feet to the UNDISTURBED SOLID GROUND. The dimensions of the reaction backing (thrust block) at the face of the undisturbed solid ground shall be as shown in the Table below. If there isn't sufficient space for the installation of the "thrust block" without interference with other services, another arrangement satisfactory to the engineer shall be used, i.e. encasement.

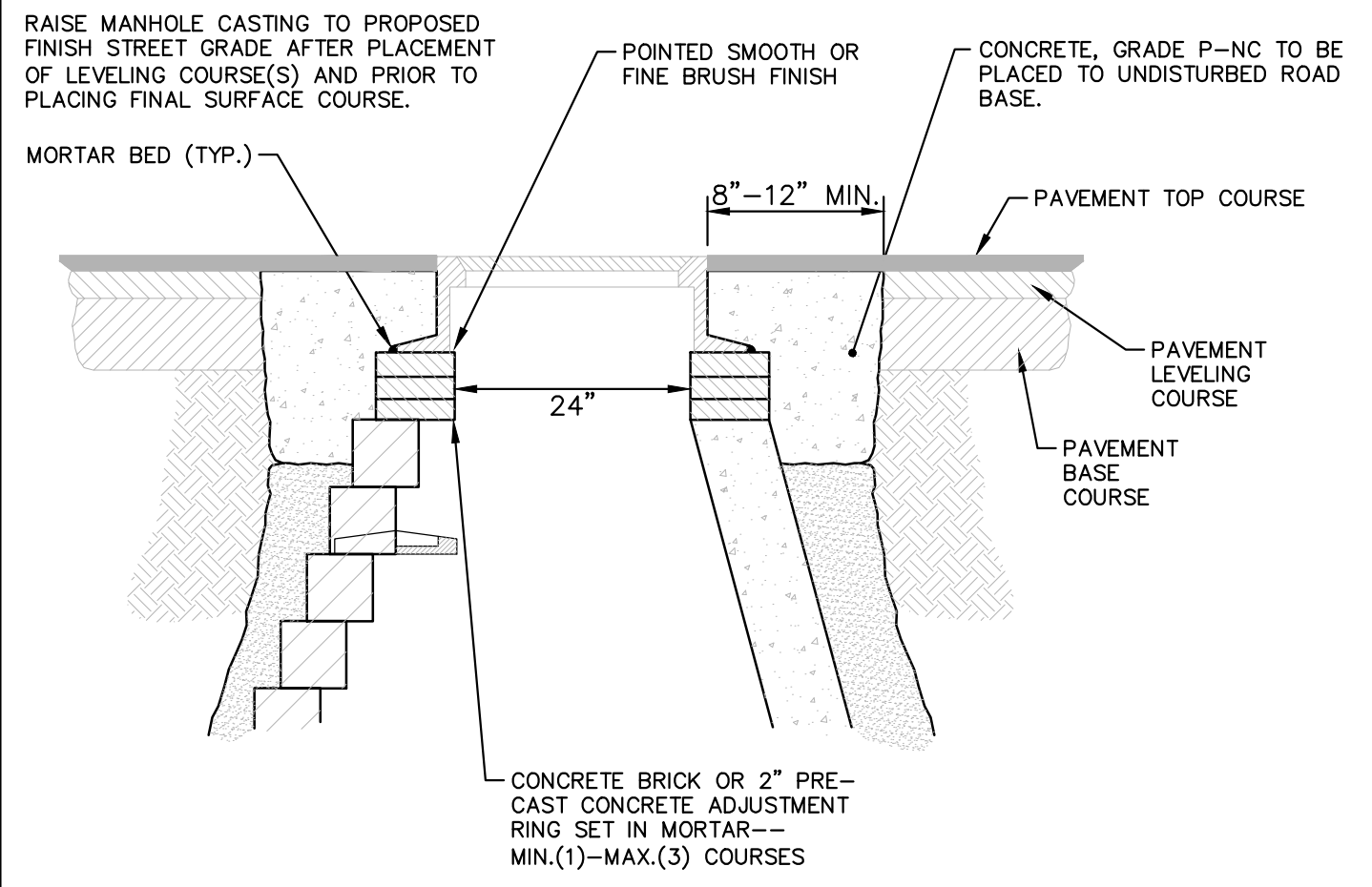
Fittings I.D.	Plug Tee Cross		Bends				Hydrant	
	W	H	90°	45°	22½°	11¼°	W	H
2.5	1	1	1	1	1	1		
4	1	1	1	1	1	1		
6	2	1.5	2	2	2	1	1	2 1.5
8	2.5	2	3.5	2	2	1	1	2.5 2
12	3.5	3	5.5	3	3.5	2.5	2	2 1
16	6	3.5	6	4	5	3	3.5	2 2
20	8	4	12	4	6	4	4	3 2
24	11	4	17	4	9	4	6	3.5 2
30	11	4	17	4	9	4	6	4 3.5 2



NOTE: THESE ARE MINIMUM STANDARDS. WHERE SOIL CONDITIONS DICTATE, ADJUSTMENTS IN SIZE SHALL BE MADE BY THE PUBLIC SERVICES DIRECTOR.

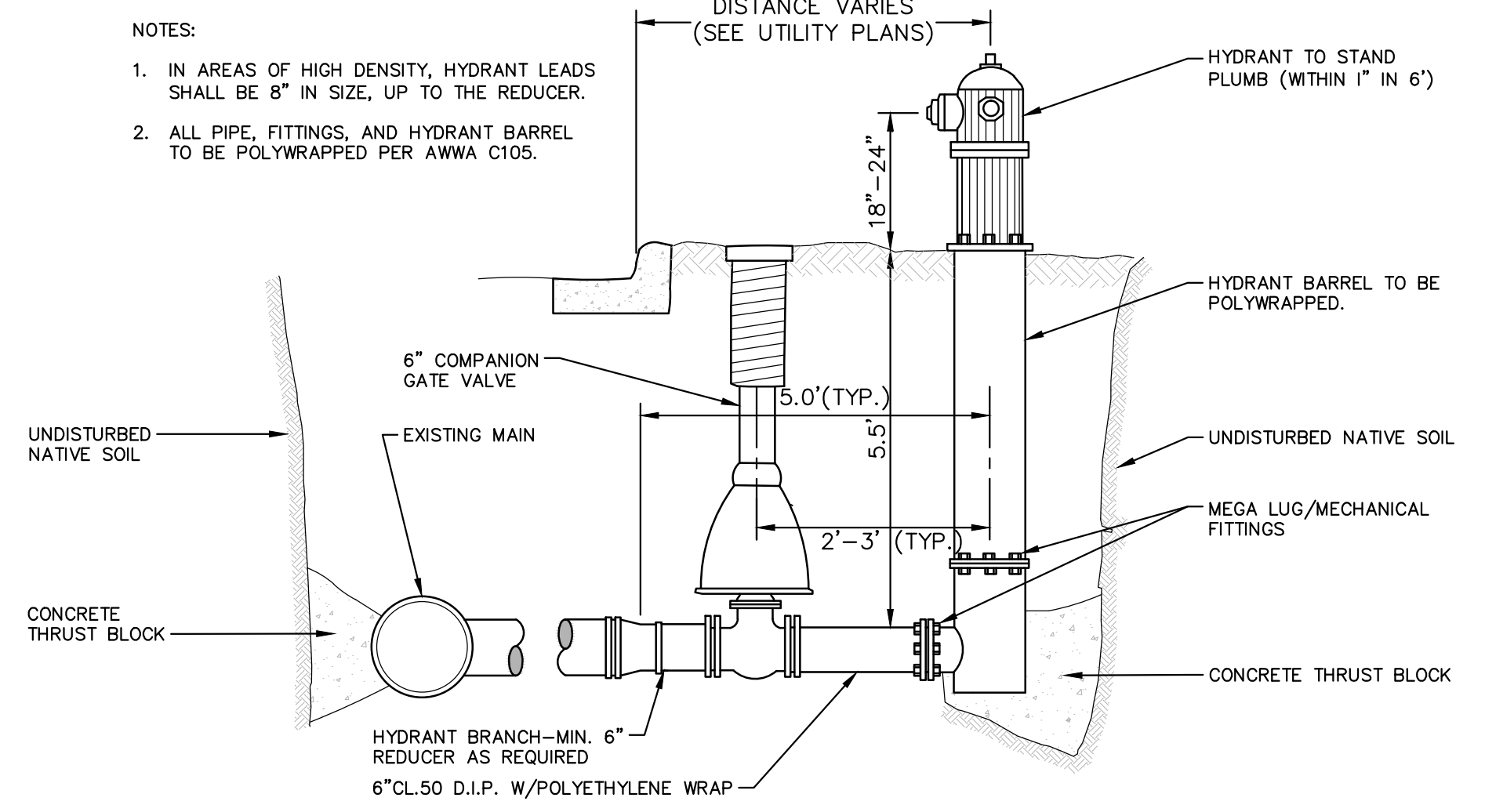
CITY OF ANN ARBOR STANDARD SD-W-2 APPLIES TO: SEE PLANS FOR LOCATIONS

**THRUST BLOCK**



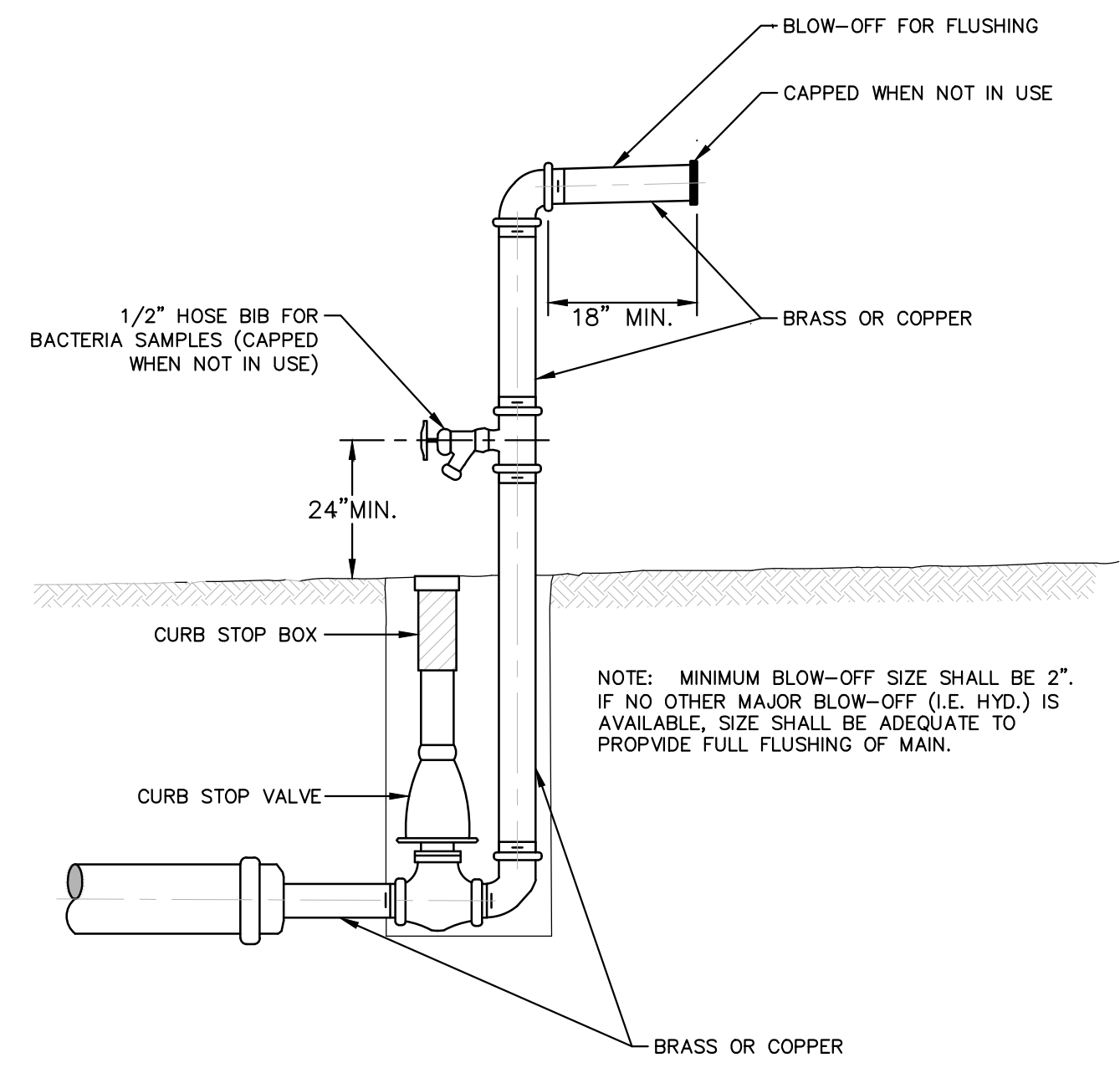
**MANHOLE CASTING ADJUSTMENT SD-GU-6**

NOTE: IF MANHOLE WILL BE PLACED IN GRAVEL ROAD, CASTING TO BE SET 6" TO 8" BELOW ROADWAY GRADE. ALL CONSTRUCTION METHODS SHALL REMAIN AS SHOWN ABOVE.



**FIRE HYDRANT ASSEMBLY SD-W-1**

- NOTES:
1. IN AREAS OF HIGH DENSITY, HYDRANT LEADS SHALL BE 8" IN SIZE, UP TO THE REDUCER.
  2. ALL PIPE, FITTINGS, AND HYDRANT BARREL TO BE POLYWRAPPED PER AWWA C105.



**TEMPORARY TESTING BLOW OFF SD-W-7**

NOTE: MINIMUM BLOW-OFF SIZE SHALL BE 2". IF NO OTHER MAJOR BLOW-OFF (I.E. HYD.) IS AVAILABLE, SIZE SHALL BE ADEQUATE TO PROVIDE FULL FLUSHING OF MAIN.

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Know what's below. Call before you dig.

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

S. DIVISION ST. RESURFACING

WATER DET

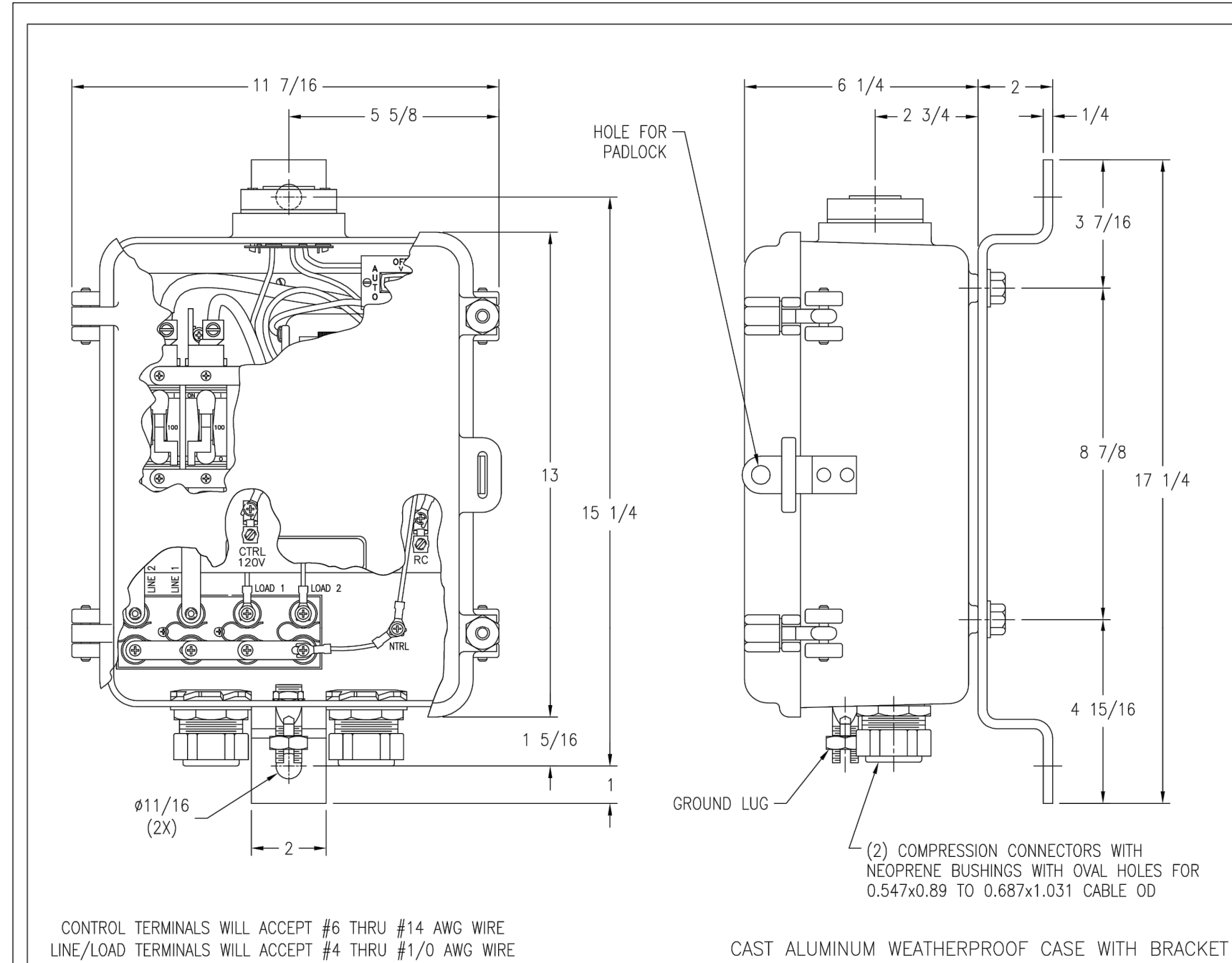
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00		ADD DESCRIPTION AN MAKE LAYER PLOT		

SCALE: NTS

DRAWING No. 2015038-6

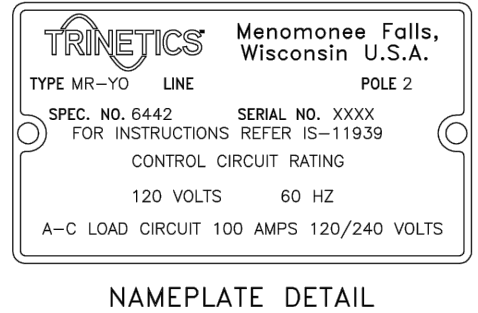
SHEET No. 6 OF 41

S:\Project Management\Design\2015038 Division\Plan Production\2015038 DET.dwg Dwg Created: 4-Jan-16 - \_o2 standard bw.stb - Plot Date: 5-Feb-16



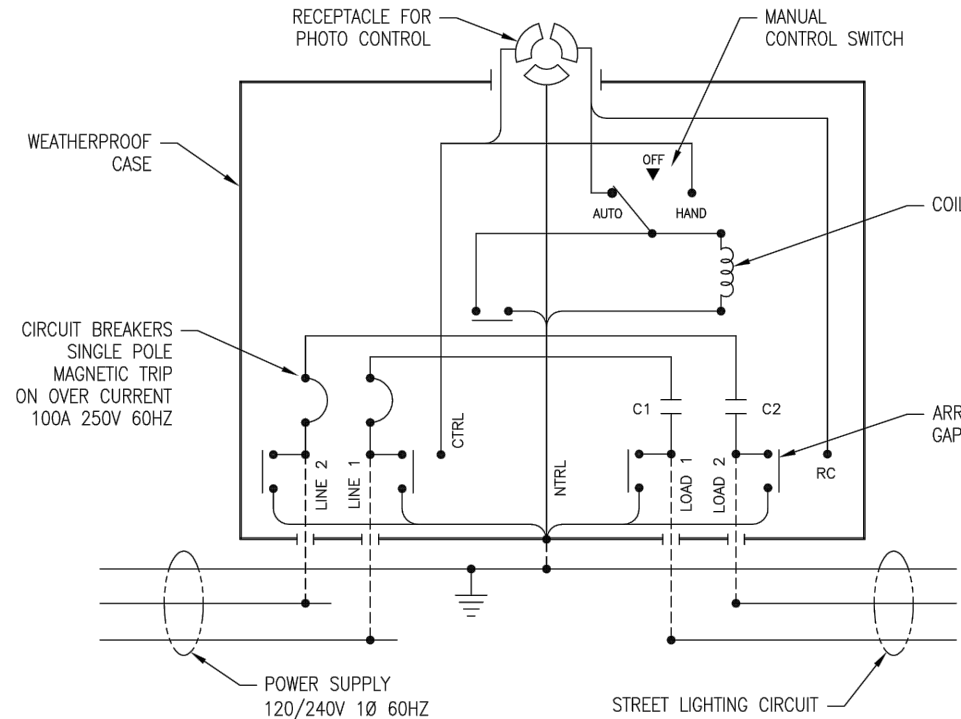
CONTROL TERMINALS WILL ACCEPT #6 THRU #14 AWG WIRE  
LINE/LOAD TERMINALS WILL ACCEPT #4 THRU #1/0 AWG WIRE

CAST ALUMINUM WEATHERPROOF CASE WITH BRACKET  
(2) COMPRESSION CONNECTORS WITH NEOPRENE BUSHINGS WITH OVAL HOLES FOR 0.547x0.89 TO 0.687x1.031 CABLE OD



THE CONTRACTOR SHALL PROVIDE THE STREET LIGHTING DISCONNECT BOX/LIGHTING CONTROLLER SHOWN HERE AND AS SPECIFIED IN THE CONTRACT DOCUMENTS.

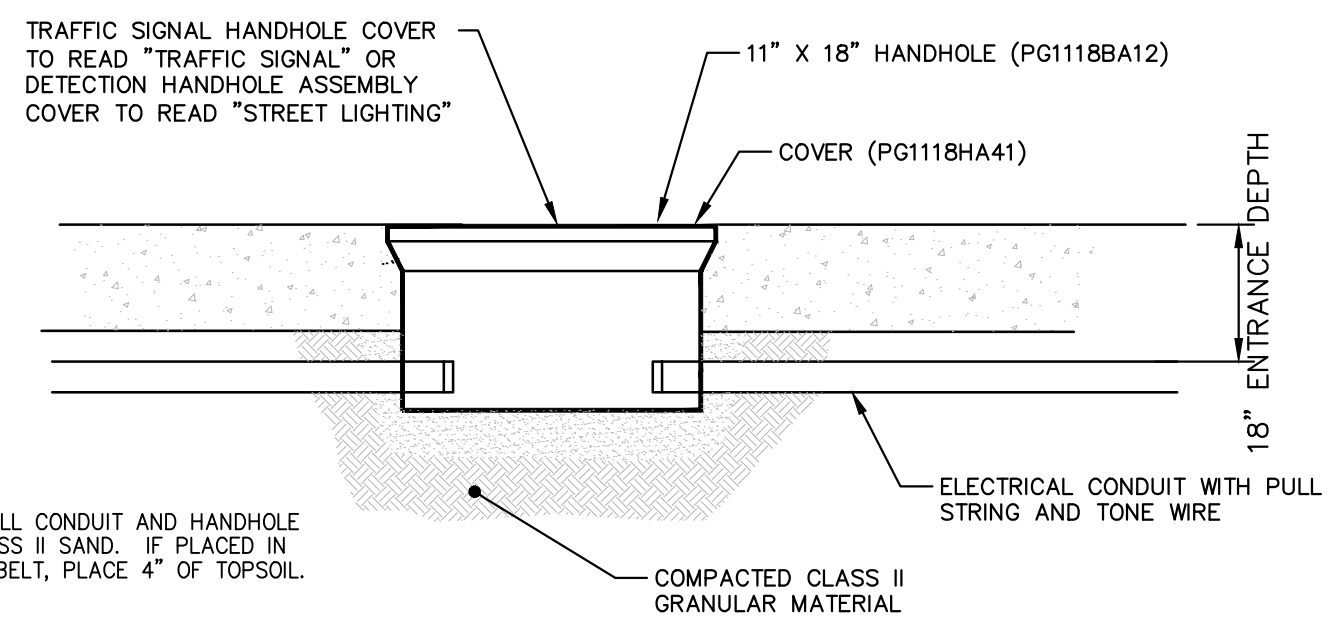
CONNECTIONS FOR TYPE MR-YO SPEC 6442 STREET LIGHT CONTROL ASS'Y WITH SINGLE POLE MAGNETIC TRIP ON OVERLOAD CIRCUIT BREAKERS.



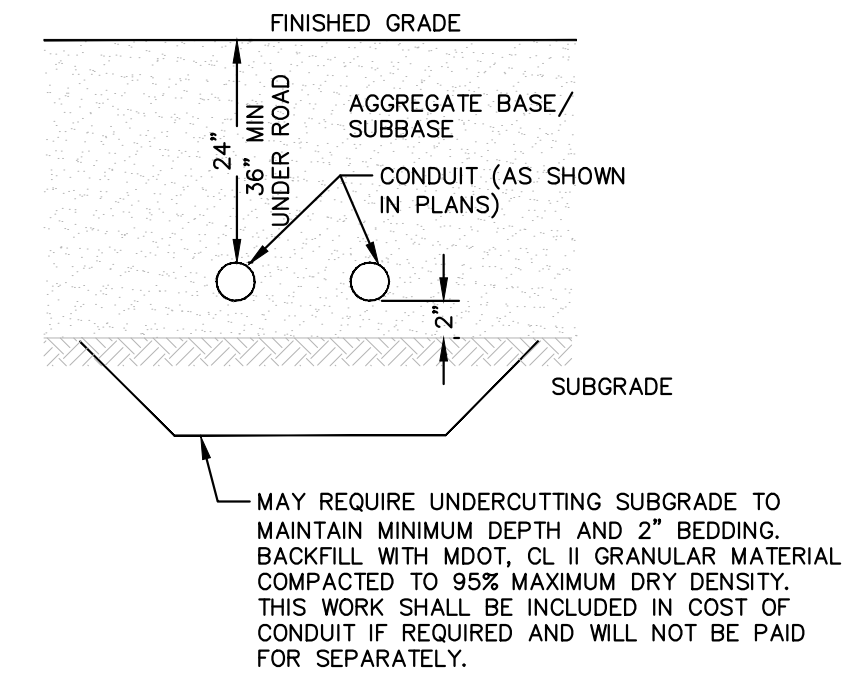
TWO POLE STREET LIGHT CONTROL ASS'Y WIRED FOR OPERATION WITH 120V PHOTO CONTROL UNIT AND RATED FOR SWITCHING A STREET LIGHTING LOAD WITH NORMAL CURRENT WHICH DOES NOT EXCEED THE LOAD CURRENT RATING SHOWN ON THE NAMEPLATE. IF SUPPLY IS 240/480V, A SEPARATE 120V SOURCE MUST BE CONNECTED TO "CTRL" TERMINAL FOR PC OPERATION.  
THE LOCATION OF THE PHOTO CONTROL UNIT MAY BE EITHER AT THE CONTROL ASS'Y AND PLUGGED INTO THE RECEPTACLE PROVIDED FOR SAME, OR AT A REMOTE POINT SUCH AS AN AUXILIARY PHOTO CONTROL MOUNTING ADAPTER OR ANOTHER STREET LIGHT CONTROL ASS'Y.  
WHEN PHOTO CONTROL IS TO BE REMOTE, CLOSE THE SELF CONTAINED RECEPTACLE FOR PHOTO CONTROL WITH AN OPEN CIRCUITED CAP. ESTABLISH THE OPERATING CIRCUIT BY WIRING FROM THE "TRC" TERMINAL TO THE LOAD LEAD OF THE REMOTELY LOCATED AUXILIARY PHOTO CONTROL MOUNTING ADAPTER, OR TO THE "TRC" TERMINAL OF ANOTHER STREET LIGHT CONTROL ASS'Y. INTERCONNECTION OF "TRC" TERMINALS OF TWO OR MORE STREET LIGHT CONTROL ASSEMBLIES PROVIDES GANG OPERATION WITH A SINGLE PC UNIT.  
MANUAL CONTROL SWITCH IS SHOWN IN "AUTO" POSITION AND PHOTO CONTROL ESTABLISHES ON-OFF STREET LIGHT OPERATING SCHEDULE. MANUAL CONTROL SWITCH IN HAND OR OFF POSITIONS BY-PASSES PHOTO CONTROL TO PROVIDE, RESPECTIVELY, STREET LIGHT CIRCUIT ON OR OFF OPERATION. REMOTE PC LOCATION OR GANG OPERATION CONNECTIONS ARE NOT AFFECTED BY OPERATION OF INDIVIDUAL MANUAL CONTROL SWITCHES. HOWEVER, 120V MUST BE AVAILABLE AT EACH STREET LIGHT CONTROL ASSEMBLY TO PERMIT HAND-ON CIRCUIT OPERATION WITH RESPECTIVE MANUAL CONTROL SWITCH.  
THE RELAY MUST BE ENERGIZED CONTINUOUSLY AT 120V DURING THE TIME OF RELAY CONTACT CLOSURE.

THIS DRAWING AND ALL INFORMATION THEREON IS THE SOLE PROPERTY OF TRINETICS. IT MUST NOT BE COPIED, REPRODUCED OR SUBMITTED TO OTHERS WITHOUT WRITTEN AUTHORIZATION. ALL REPRODUCTIONS ARE SUBJECT TO RETURN ON DEMAND.

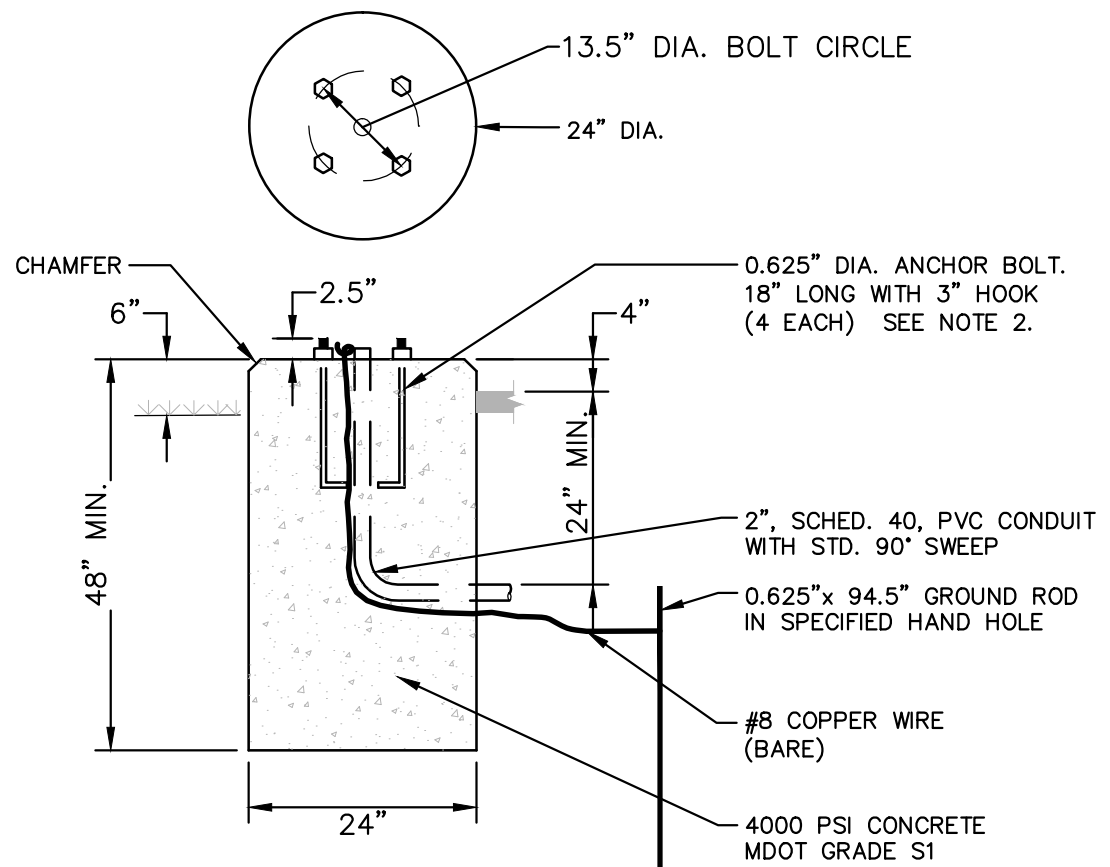
TRINETICS RELAY ASSEMBLY MR-YO SPEC 6442  
DATE PART NUMBER 7/14/11 31183000  
THIRD ANGLE PROJECTION SIZE B 1/8" F105310001  
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED



TRAFFIC SIGNAL OR ELECTRICAL HANDHOLE ASSEMBLY

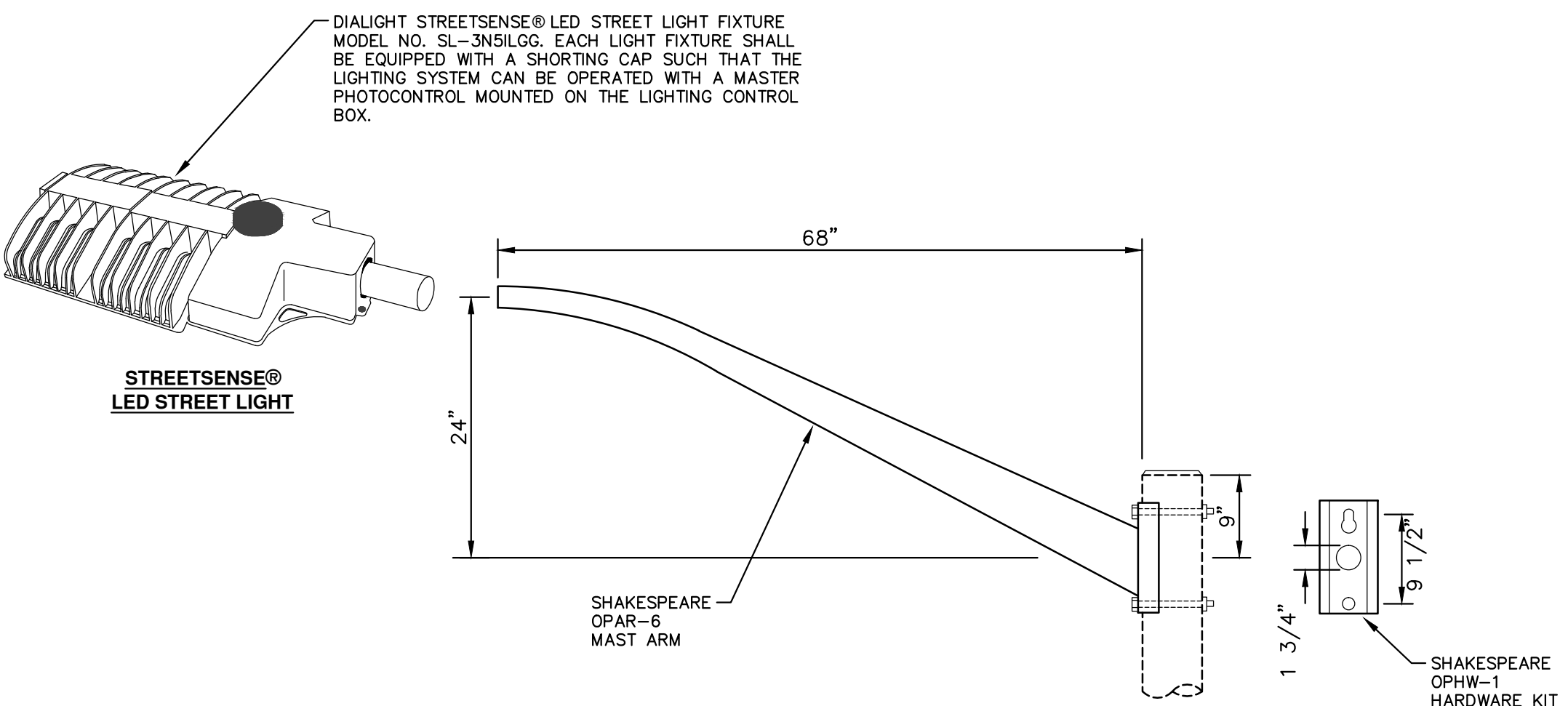


CONDUIT PLACEMENT DETAIL



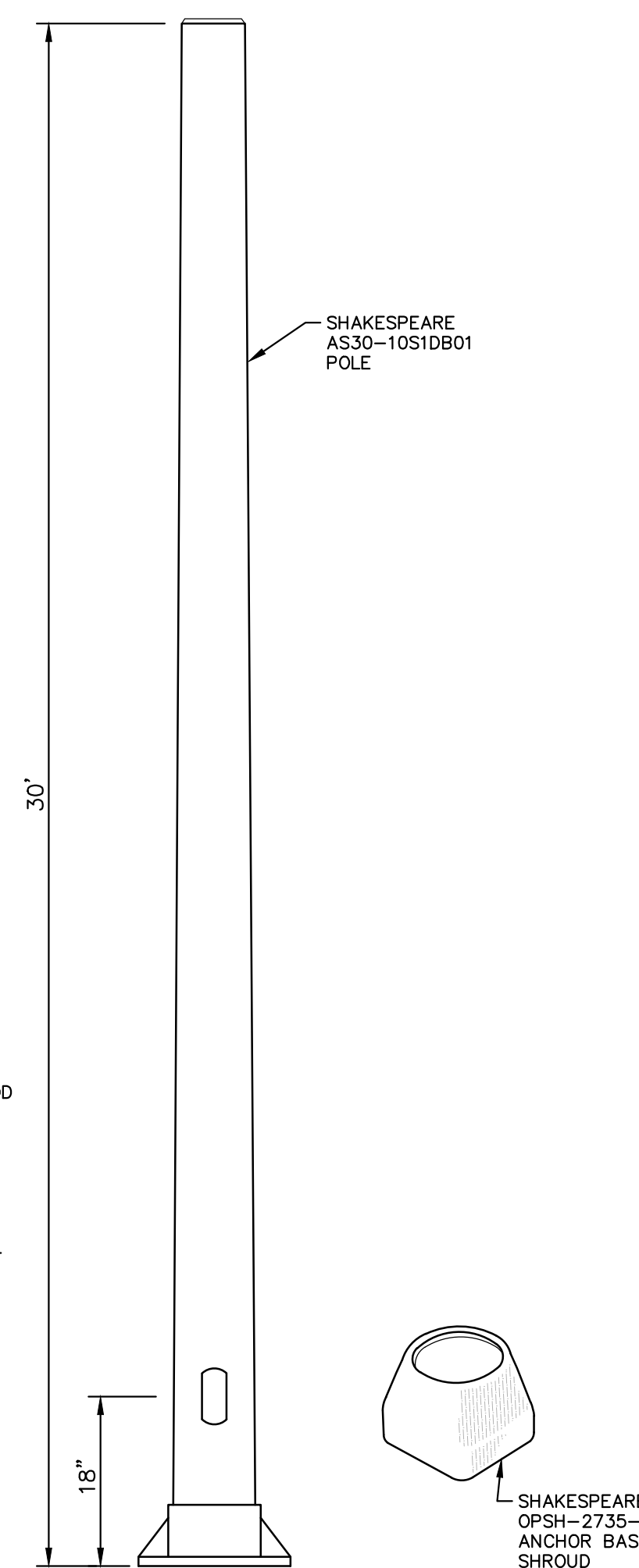
- NOTE: 1. THE CITY WILL INSPECT THE AUGERED HOLE AND ANCHOR BOLT BUILD-UP, AND PROVIDE WRITTEN APPROVAL PRIOR TO THE PLACEMENT OF CONCRETE.
- 2. CONTRACTOR WILL PROVIDE NECESSARY CONDUIT FOR CONDUCTOR ENTRY. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE POLE BASE.

PEDESTRIAN SIGNAL POLE FOUNDATION SD-SL-3

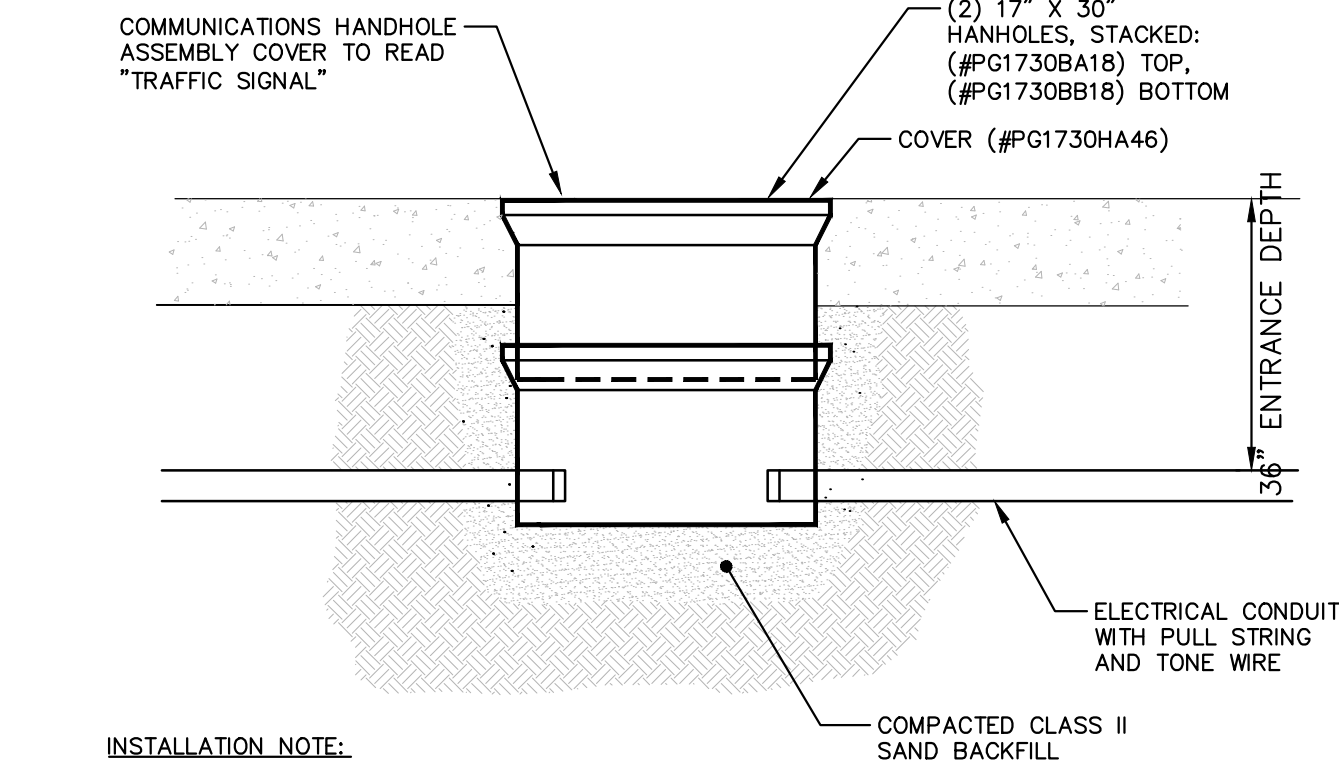


- NOTE: THE CONTRACTOR SHALL PROVIDE A COMPLETE, FULLY-FUNCTIONING, STREET LIGHT ASSEMBLY INCLUDING ALL WIRING, CONNECTIONS, TAPE, FUSES, AND ALL RELATED APPURTENANCES. ALL COSTS ASSOCIATED WITH THESE REQUIREMENTS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "STREET LIGHT ASSEMBLY, COMPLETE."

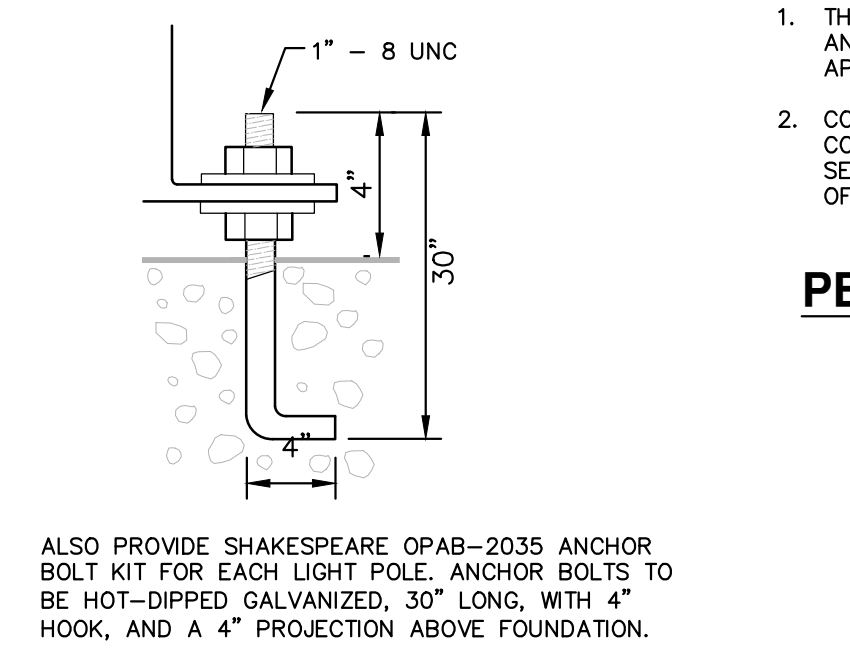
STREETLIGHT FOUNDATION SD-SL-1



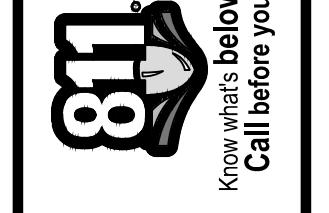
STREETLIGHT DETAIL



COMMUNICATIONS HANDHOLE ASSEMBLY



ANCHOR BOLT PROJECTION DETAIL



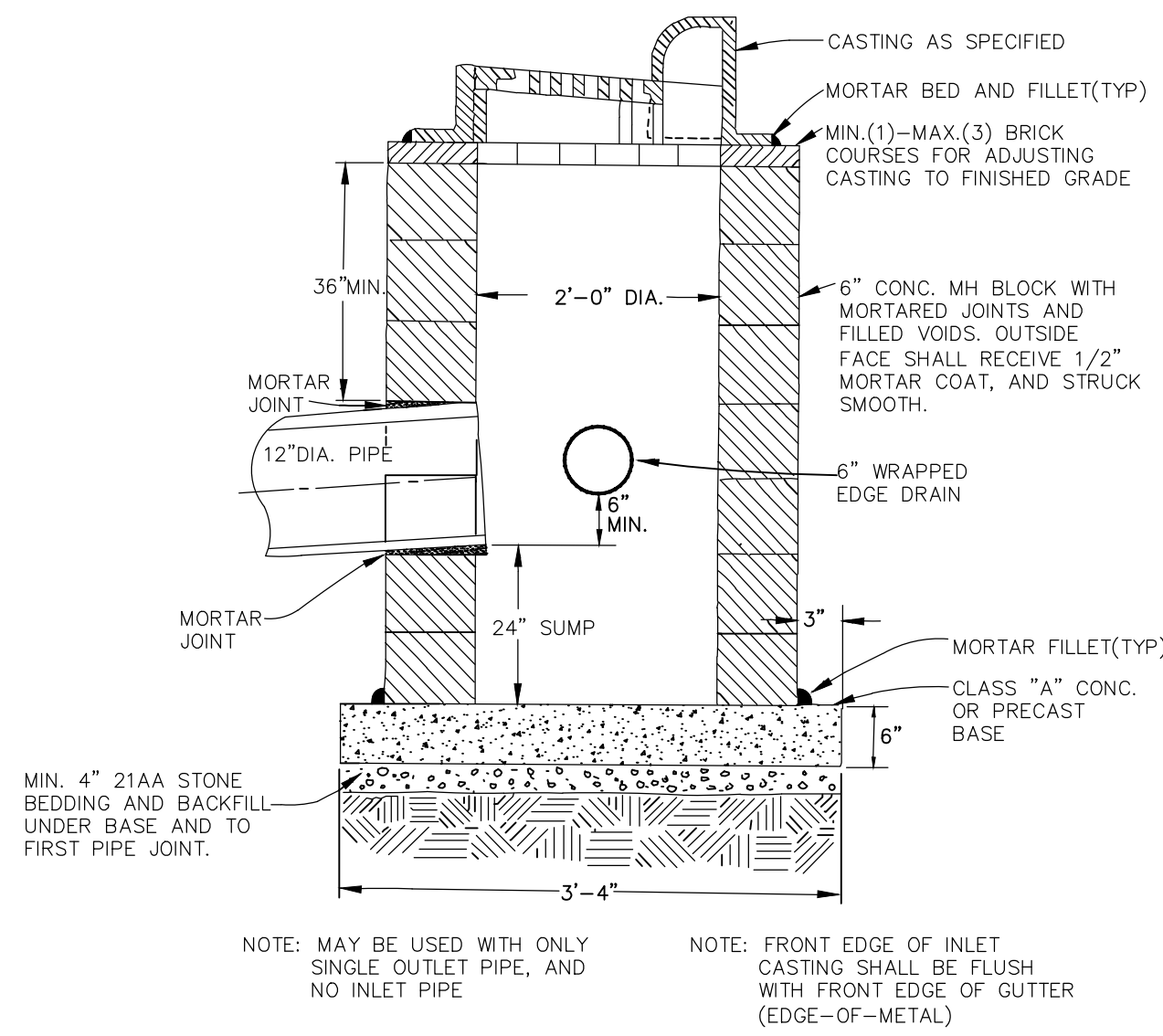
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00		ADD DESCRIPTION AN MAKE LAYER PLOT		



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
S. DIVISION ST. RESURFACING  
LIGHTING DET  
SCALE: NTS  
DRAWING NO. 2015038-7  
SHEET No. 7 OF 41



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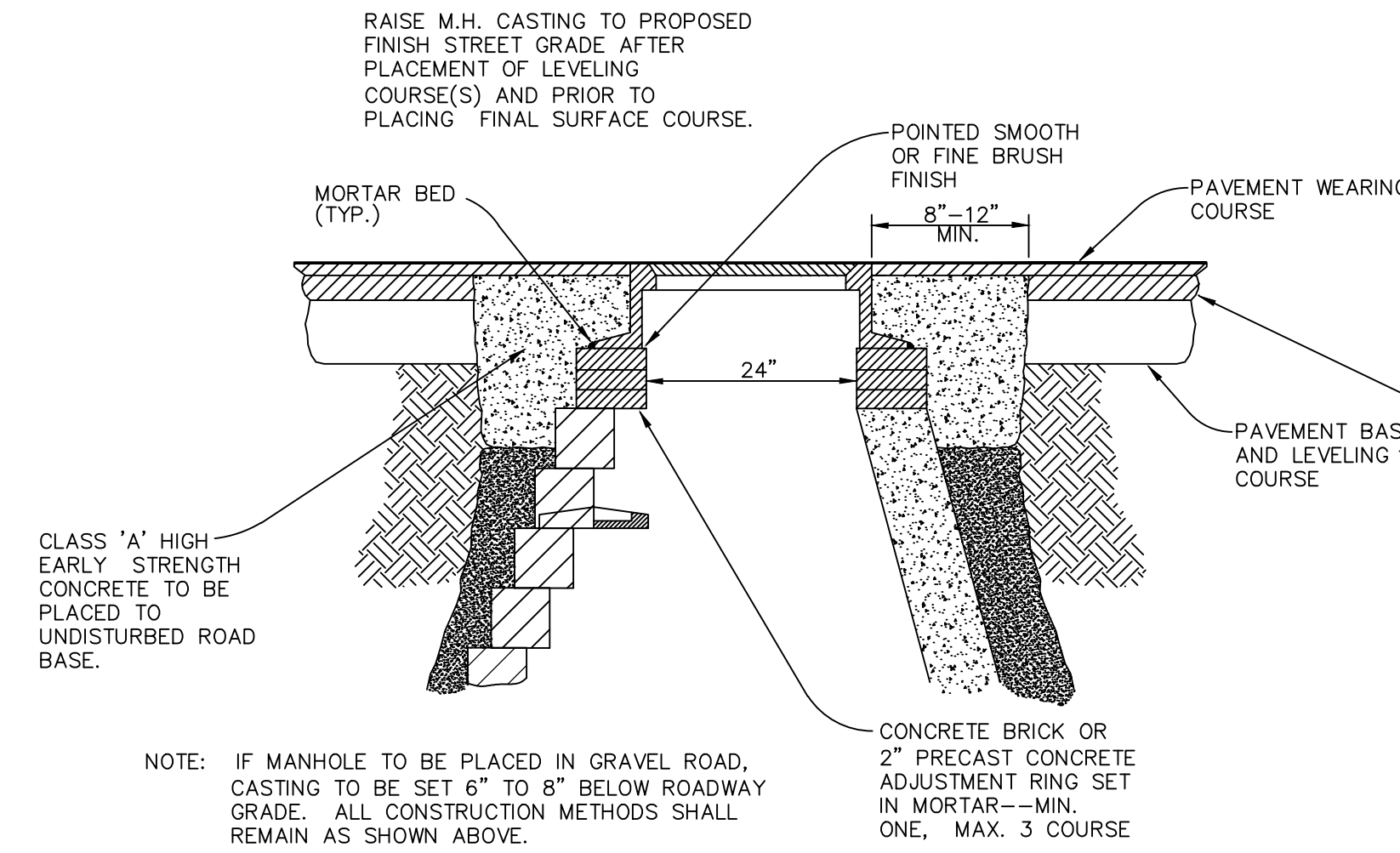


**SINGLE INLET STRUCTURE**

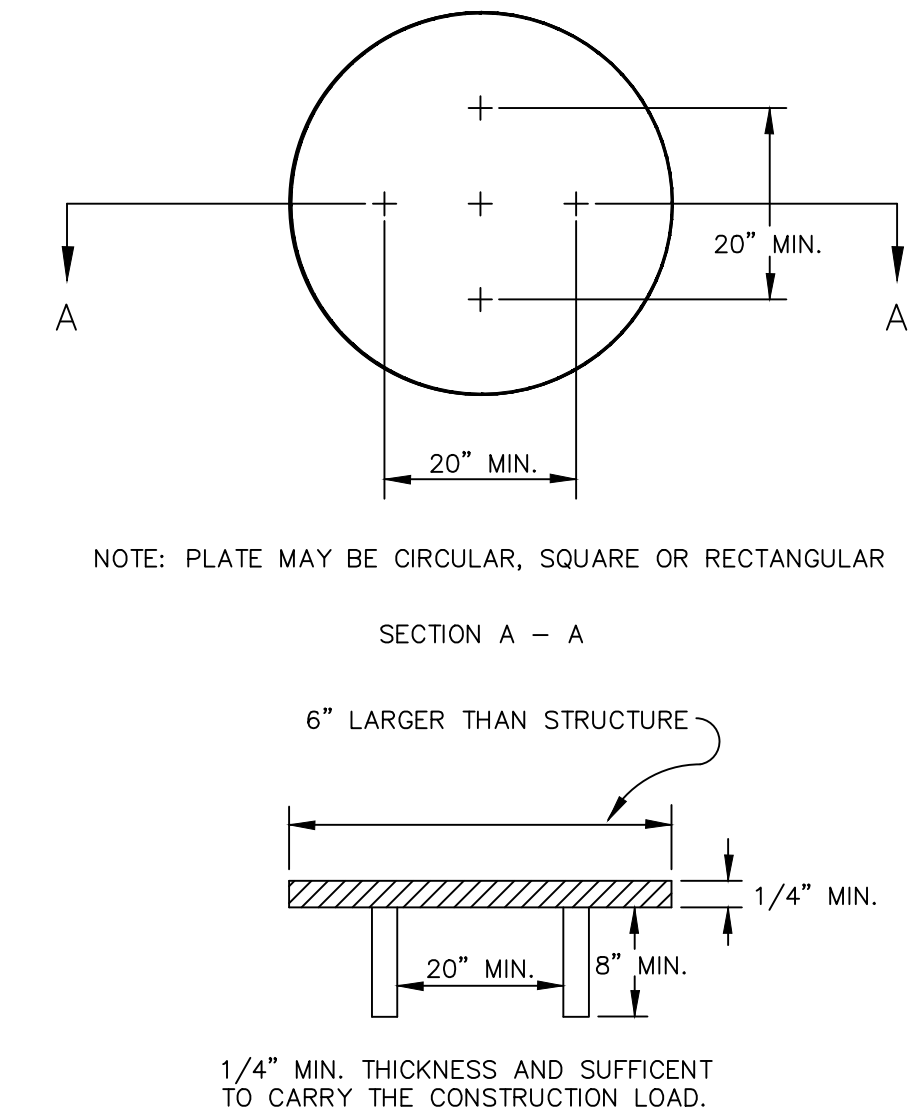
TYPE OF CASTING	NEEHAH FOUNDRY	EAST JORDAN IRON WORKS
Barrier Curb Inlet for 24 and 30 inch curb	R-3013B, Type S grate (500 Pounds)	7045, Type M1 grate (490 Pounds)
Barrier Curb Inlet for 18 inch curb		7210, Type M2 grate (490 Pounds)
*Manhole Frame & Cover	R-1642, Type C Cover (380 Pounds)	1040, Type A Cover (400 Pounds)
**Watertight Manhole Frame and Cover	N/A	1040-WT (400 Pounds)
Monument Box	N/A	8360 (100 Pounds)

**STANDARD CASTING SCHEDULE**

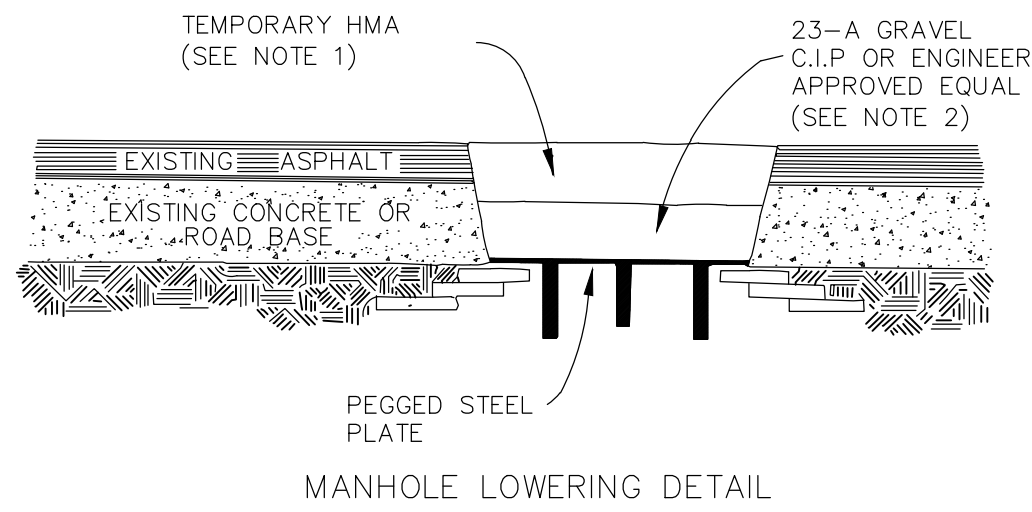
\*Frames and covers must have machined bearing surfaces. Covers must have two (2) 1" vent holes located opposite each other and 6" from the edge of the cover. Each cover shall have "Sewer", "S" or "Water", "W" cast in the surface, whichever is applicable.  
 \*\*Frames and covers must have machined bearing surfaces. Each cover shall have "Sewer", "S" or "Water", "W" cast in the surface, whichever is applicable.



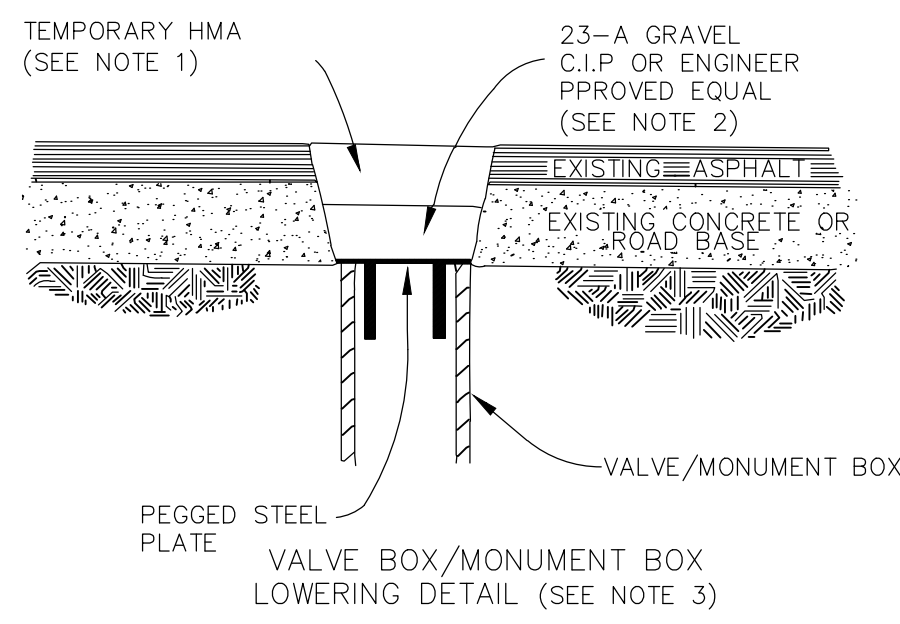
**MANHOLE CASTING ADJUSTMENT**



**STRUCTURE PLATE**



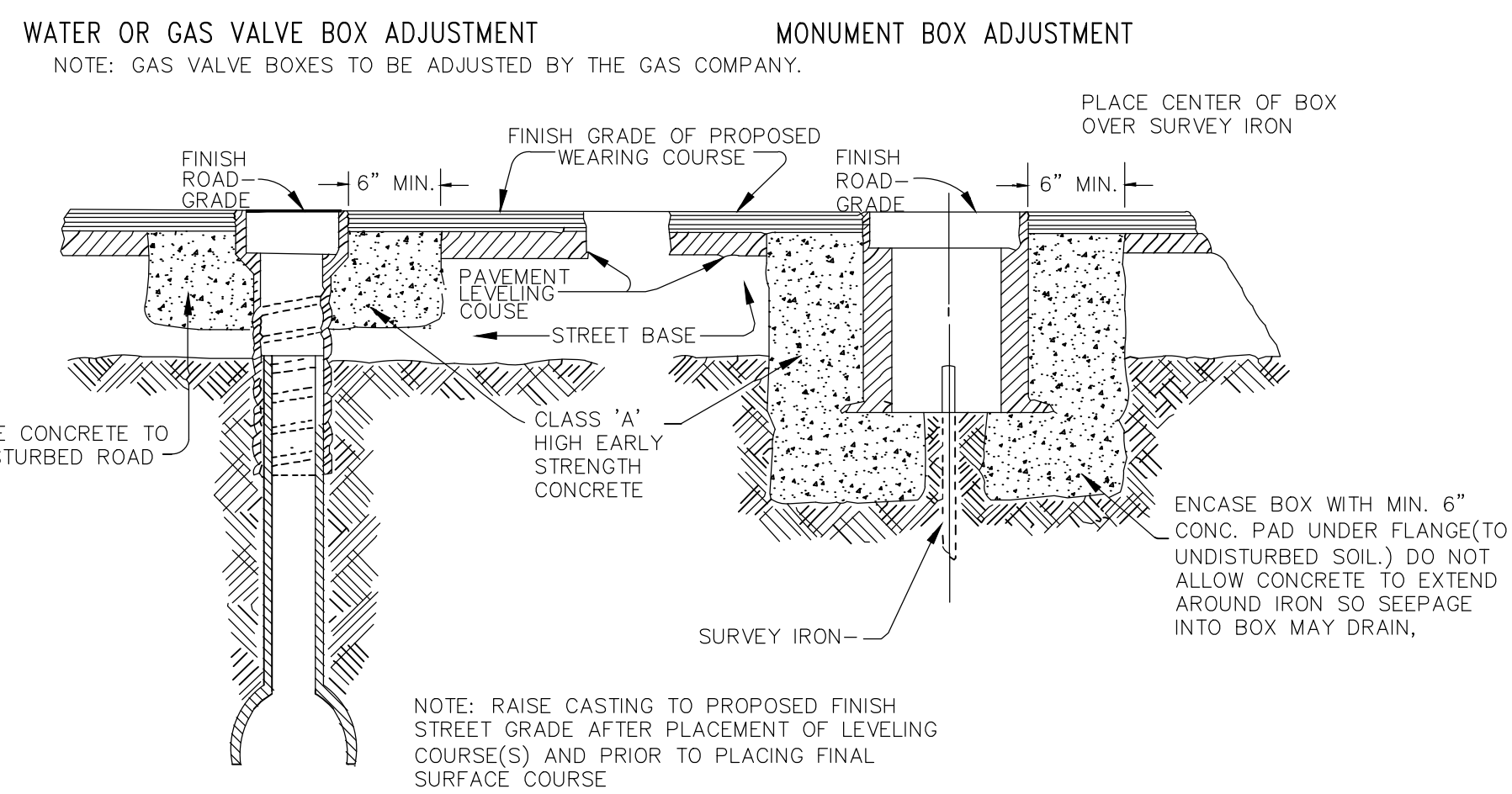
**MANHOLE LOWERING DETAIL**



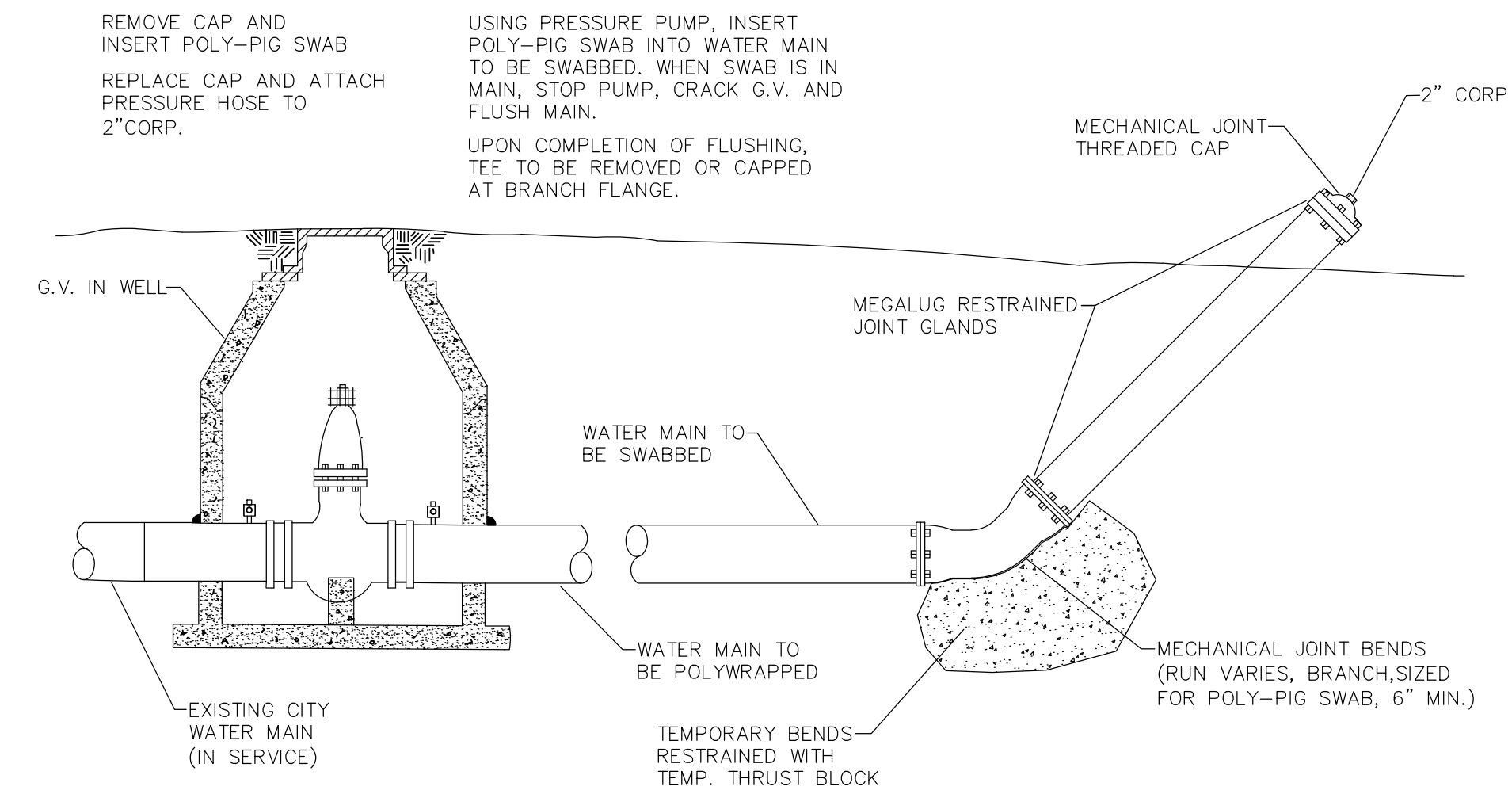
**VALVE/BOX LOWERING DETAIL**

NOTE 1: IF TRAFFIC IS TO BE MAINTAINED ON THE ROADWAY BEFORE OR AFTER THE COLD MILLING OPERATION, THE STRUCTURE SHALL BE LOWERED TO THE EXTENT THAT A MINIMUM OF THREE(3) INCHES HMA 3C, HMA 4E3, OR ENGINEER APPROVED EQUAL REMAINS TO SUPPORT TRAFFIC.  
 NOTE 2: IF THE ROADWAY BEING MILLED IS CLOSED TO TRAFFIC, THE STRUCTURE SHALL BE LOWERED SUCH THAT THE STEEL PLATE IS A MINIMUM OF FOUR(4) INCHES BELOW THE PROPOSED ROAD GRADE AND THE RESULTING VOID SHALL BE FILLED WITH COMPACTED 23-A GRAVEL OR ENGINEER APPROVED EQUAL.  
 NOTE 3: WHERE A MONUMENT IS TO BE LOWERED, THE CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF 48 HOURS WRITTEN NOTICE SO THAT THE MONUMENT CAN BE PROPERLY WITNESSED OR PROTECTED. FAILURE TO DO SO SHALL RESULT IN THE REPLACING SAID MONUMENT AT THE CONTRACTORS EXPENSE.

**MANHOLE & VALVE/MONUMENT BOX LOWERING**



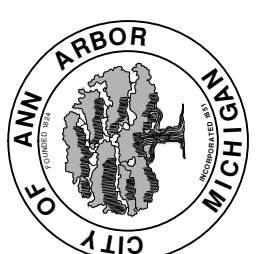
**VALVE/MONUMENT BOX ADJUSTMENT**



**SWAB LAUNCHING, MODIFIED**



REV.	DATE	DESCRIPTION
01	02/29/2012	AMENDMENT
000	MARCH, 2012	OUT FOR BID
		REV.

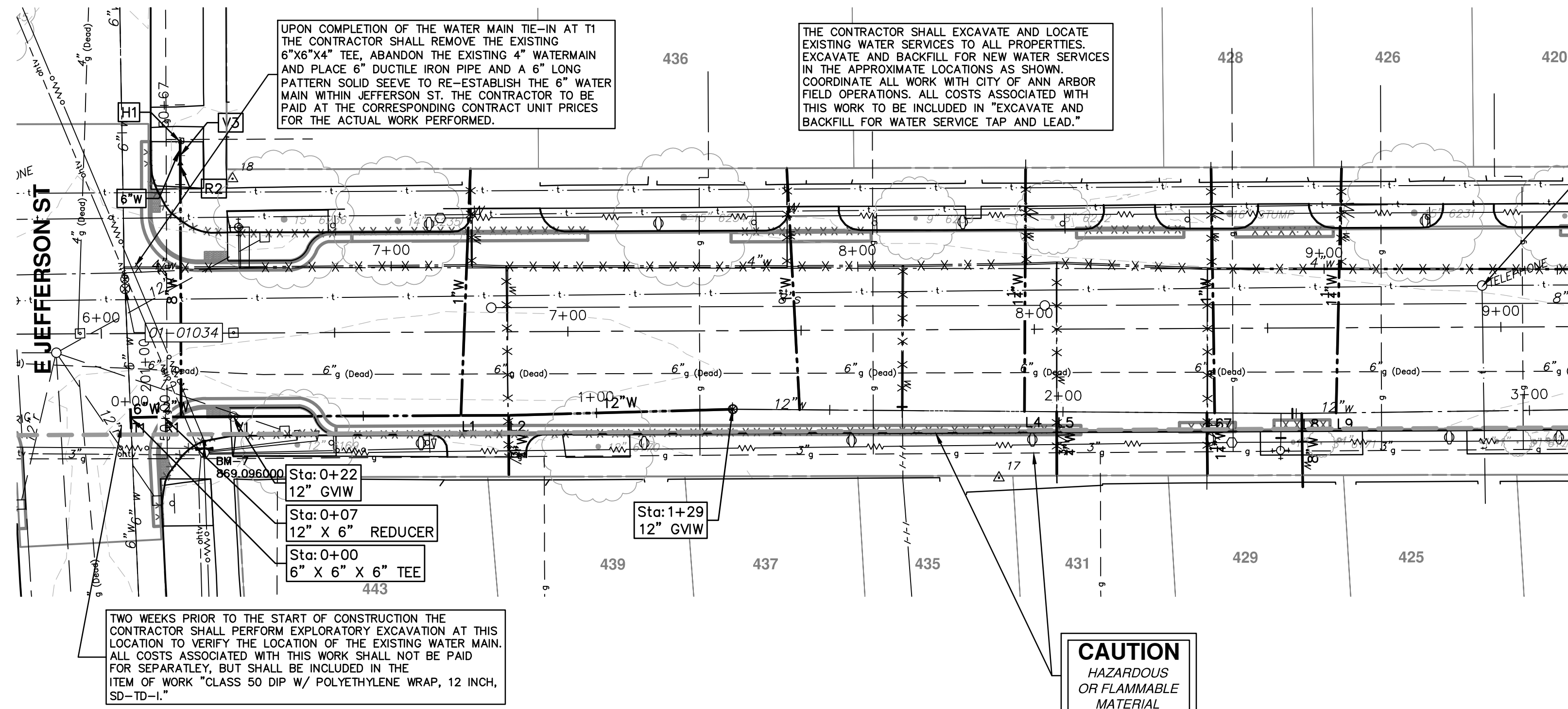


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 S. DIVISION ST. RESURFACING

SCALE PLAN: NTS  
 DRAWING No. 2015038 - 8  
 SHEET No. 8 OF 41

MISC DET

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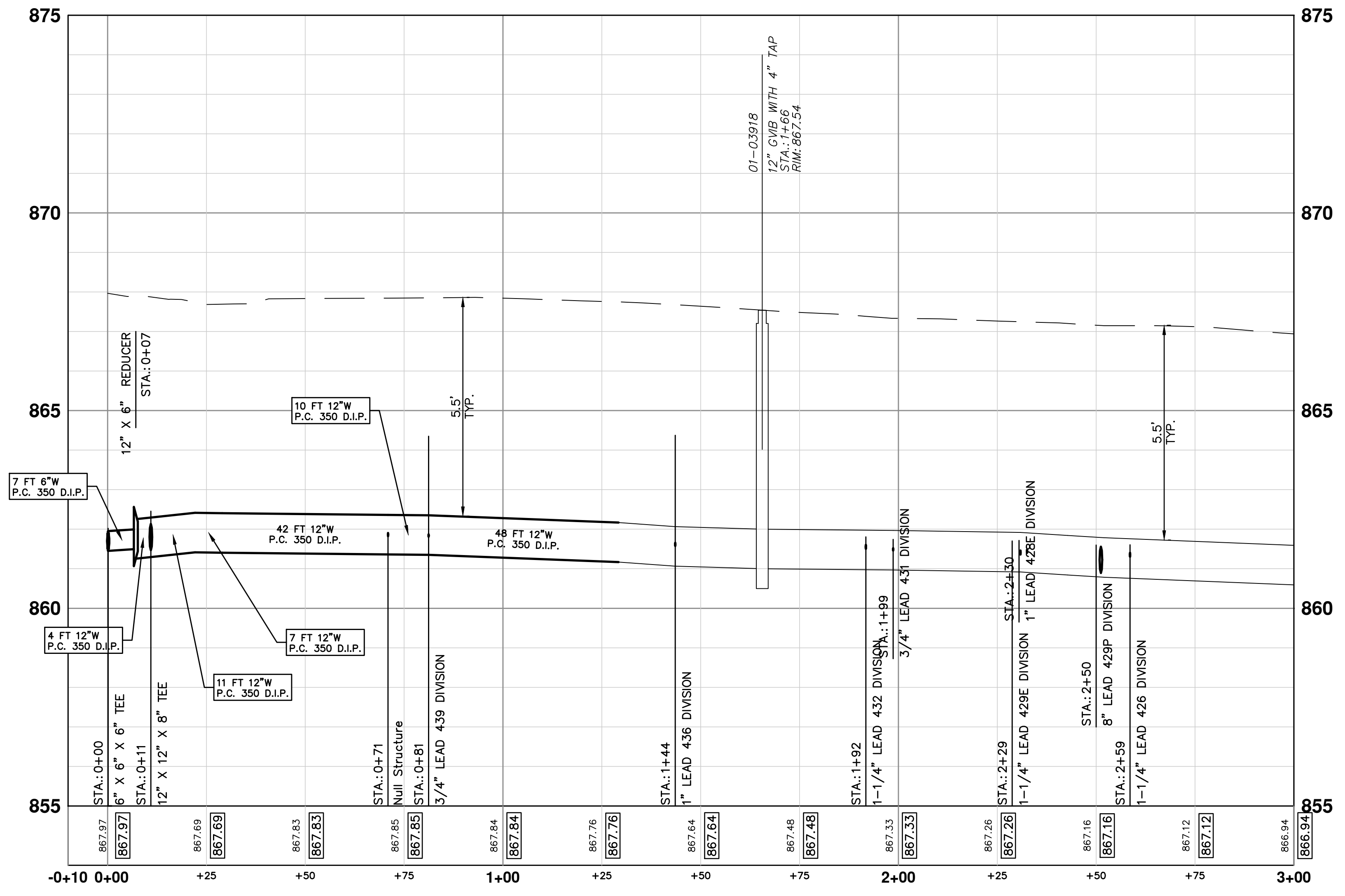


**CAUTION**  
CRITICAL UTILITY

**NOTES**  
QUANTITIES FOR SDR 35 PVC TO REPAIR ANY MIS-MARKED SANITARY LEADS ENCOUNTERED DURING WATER MAIN CONSTRUCTION ARE INCLUDED IN THE PROJECT. LEADS THAT ARE PROPERLY MARKED AND DAMAGED WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

WATER MAIN STRUCTURE TABLE					
STRUCTURE	TYPE	STATION	ALIGNMENT	RIM	DEPTH
T1	6" X 6" X 6" TEE	0+00	PrWatrDivision	862.02	???
R1	12" X 6" REDUCER	0+07	PrWatrDivision	867.89	6.93
V1	12" GVIW	0+22	PrWatrDivision	1735.44	6.28
V2	12" GVIW	1+29	PrWatrDivision	1735.49	6.58

**PRWATRDIVISION**



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
S. DIVISION ST. RESURFACING  
WATER  
PRWATR DIVISION

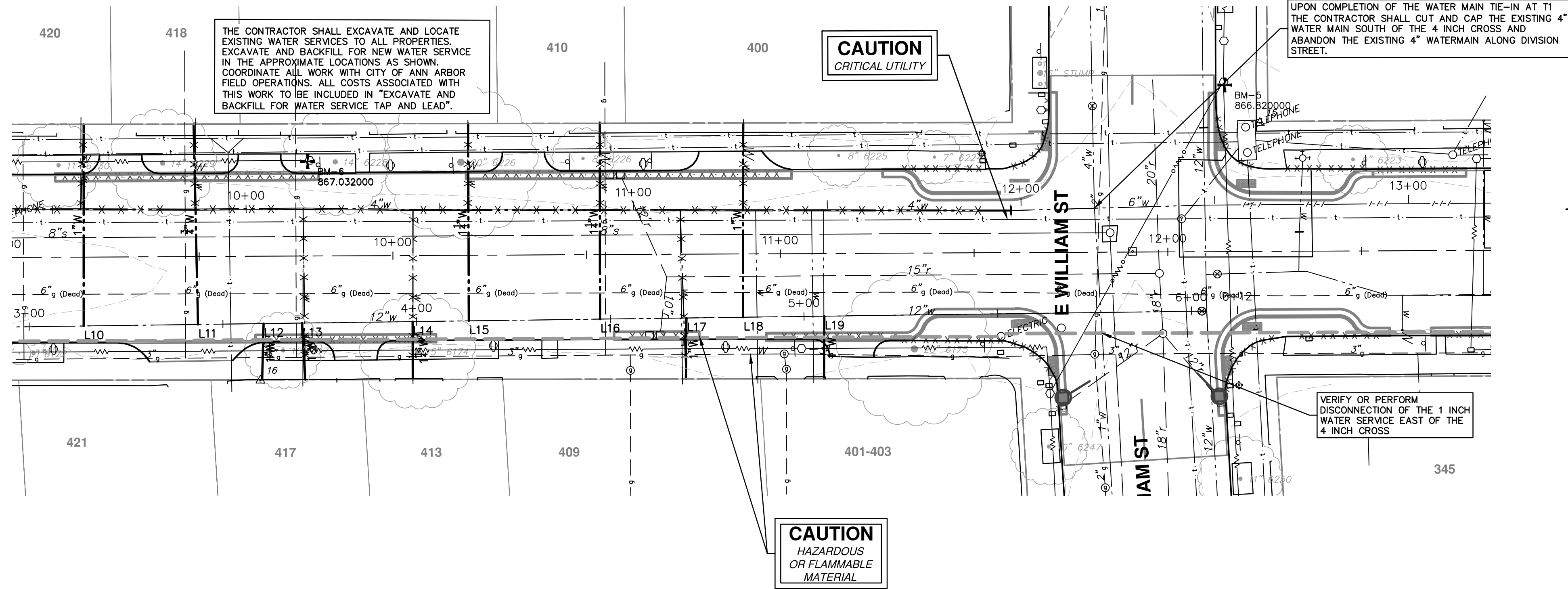
SCALE PLAN: #####  
PROFILE: 1" = X'  
DRAWING No. 2015038-9  
SHEET No. 9 OF 41

**811**  
Know what's below.  
Call before you dig.

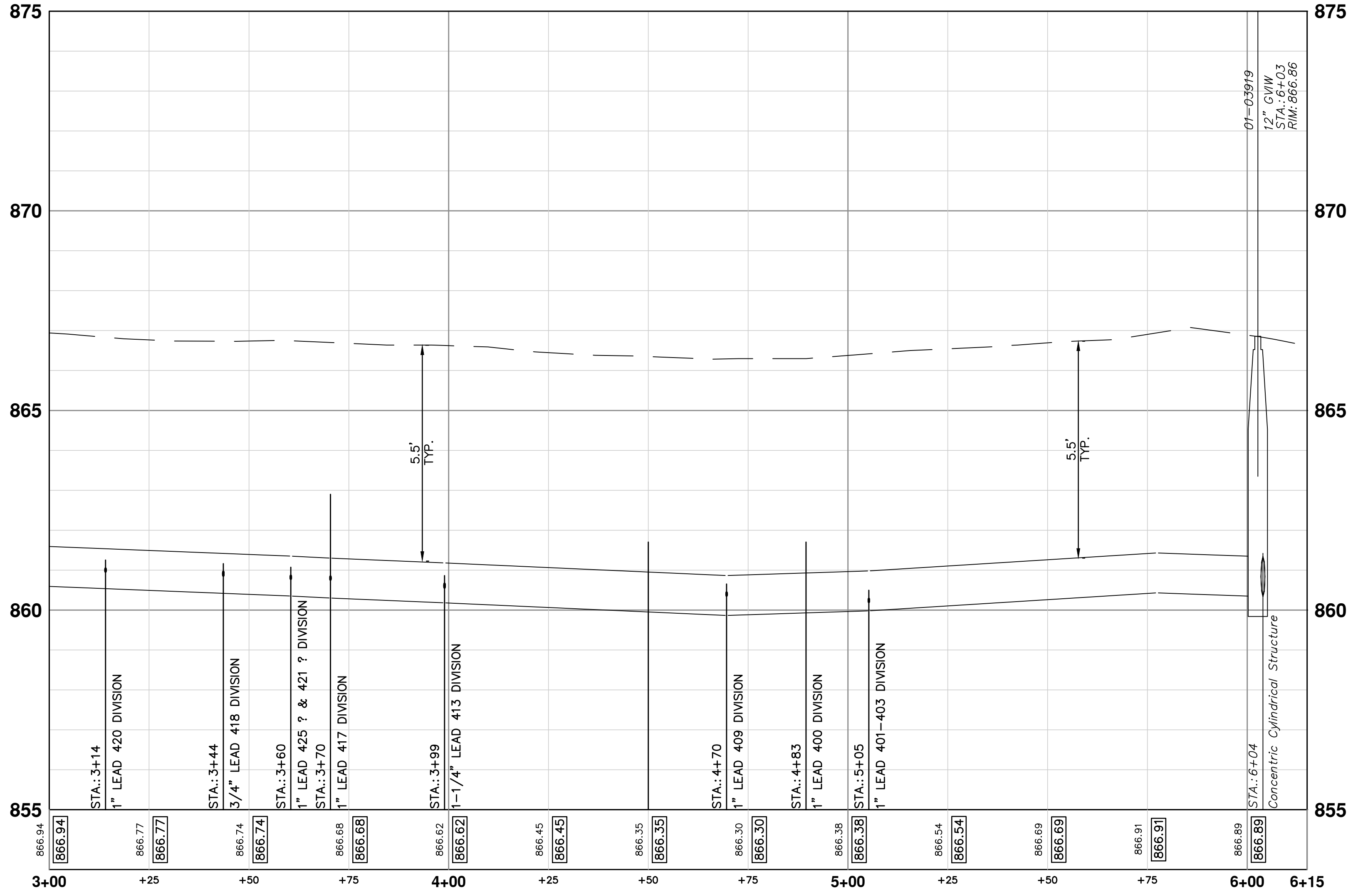
CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-0667  
www.a2gov.org

PROJECT MANAGER REVIEW  
SOIL BORING LOCATION SHEET  
DATE: 11/24/2015  
DRAWN: JKA  
CHECKED: AMW

S:\Project Management\Design\2015038 Division\Plan Production\2015038 WATER.dwg Dwg Created: 23-Nov-15 - \_a2\_standard bw.stb - Plot Date: 5-Feb-16



**PRWATRDIVISION**



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**

**S. DIVISION ST. RESURFACING**

WATER

PRWATR DIVISION (2)

10 OF 41

SHEET No.

DRAWING No. 2015038-10

PROFILE: 1" = X'

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-8647  
www.a2gov.org

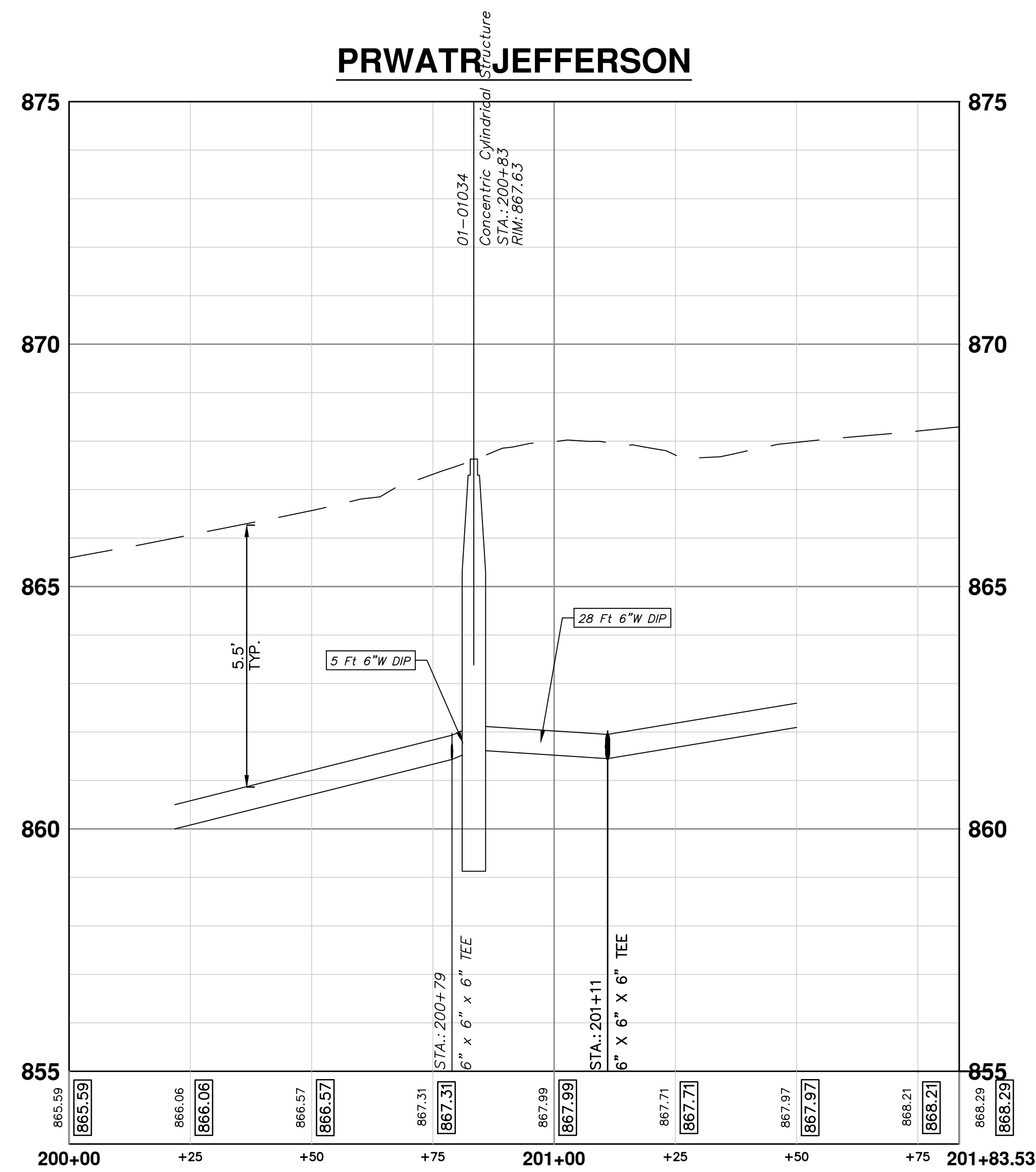
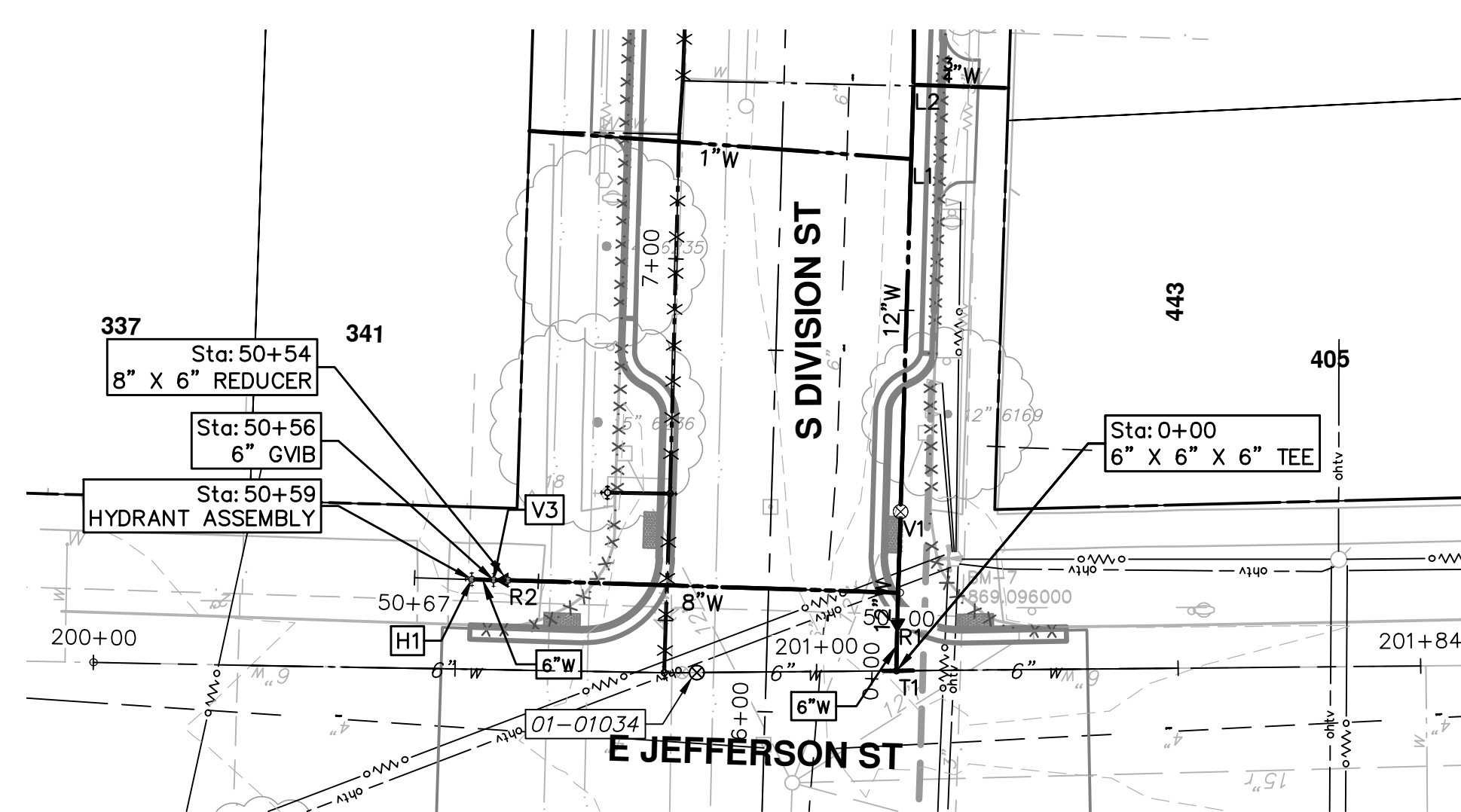
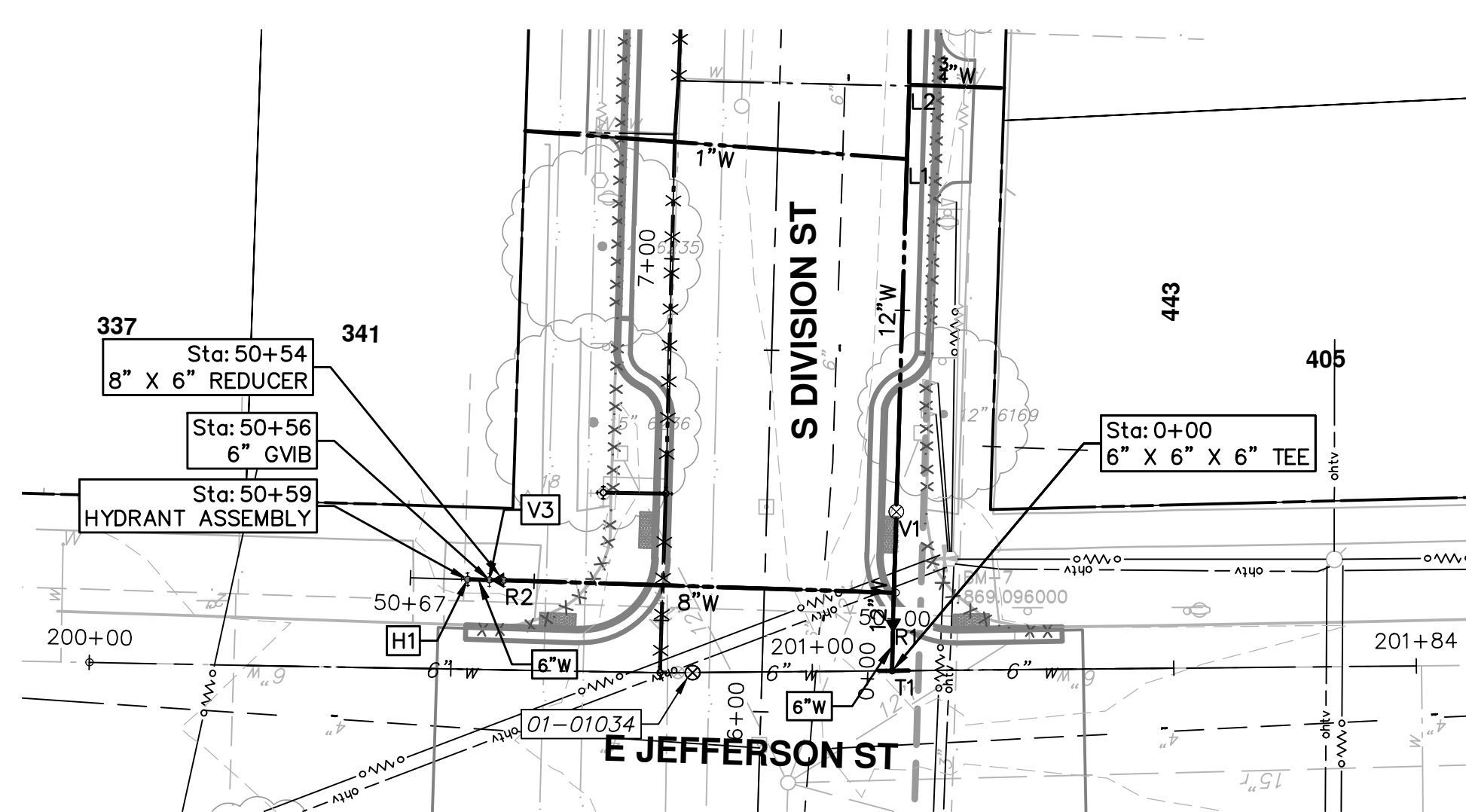
01 PROJECT MANAGER REVIEW JKA JAN 11/24/2015

00 SOIL BORING LOCATION SHEET JKA AMW 10/05/2015

REV. DATE DESCRIPTION

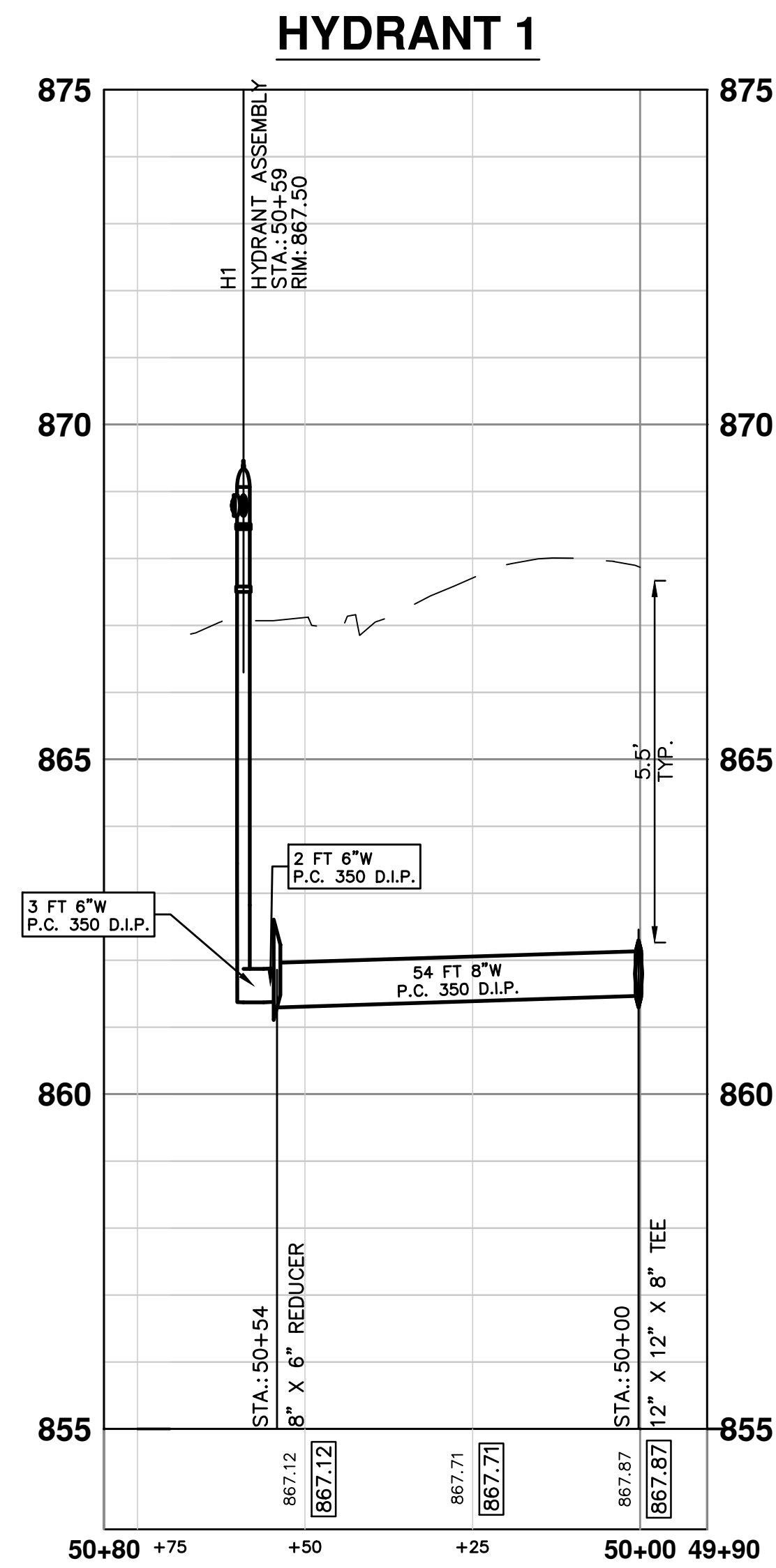
811 Know what's below. Call before you dig.

S:\Project Management\Design\2015038 Division\Plan Production\2015038 AUX.dwg Dwg Created: 28-Dec-15 - \_a2\_standard bw.stb - Plot Date: 5-Feb-16



WATER MAIN STRUCTURE TABLE					
STRUCTURE	TYPE	STATION	ALIGNMENT	RIM	DEPTH
T1	6" X 6" X 6" TEE	0+00	PrWatrDivision	862.02	???
01-01034	Concentric Cylindrical Structure	200+83	PrWatr Jefferson	867.63	8.00

WATER MAIN STRUCTURE TABLE					
STRUCTURE	TYPE	STATION	ALIGNMENT	RIM	DEPTH
R2	8" X 6" REDUCER	50+54	HYDRANT 1	862.01	1.02
V3	6" GVB	50+56	HYDRANT 1	1732.07	3.63
H1	HYDRANT ASSEMBLY	50+59	HYDRANT 1	867.50	6.13



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**

**S. DIVISION ST. RESURFACING**

WATER

PRWATR JEFFERSON H1

SCALE PLAN: #####

PROFILE: 1" = X'

DRAWING No. 2015038-11

SHEET No.

**811**

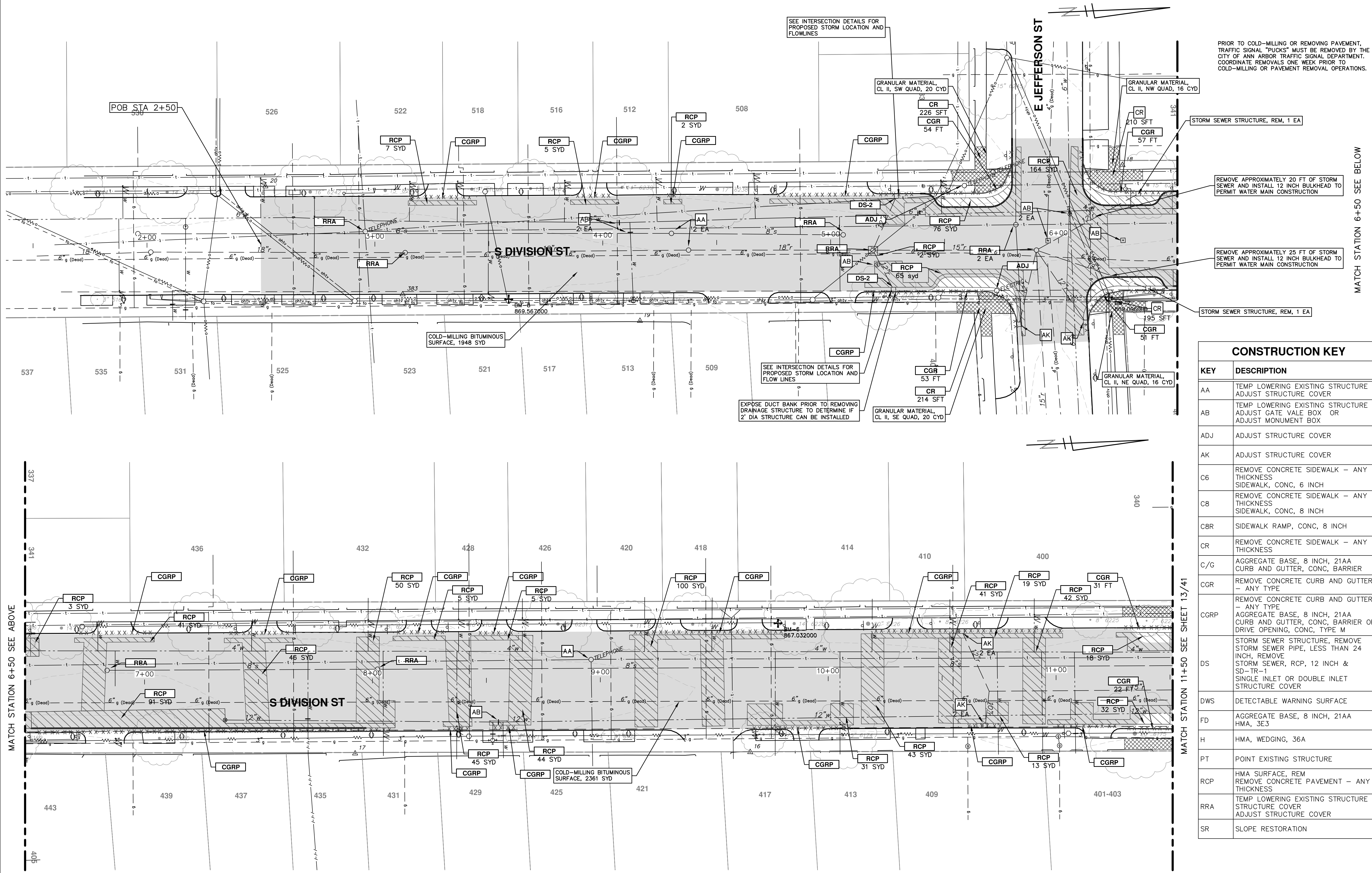
Know what's below. Call Before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	PROJECT MANAGER REVIEW	11/24/2015	JKA	JAN
00	SOIL BORING LOCATION SHEET	10/05/2015	JKA	AMW

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
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www.a2gov.org

CITY OF ANN ARBOR  
MICHIGAN

S:\Project Management\Design\2015038 Division\Plan Production\2015038 REM.dwg Dwg Created: 19-Jan-16 - \_a2 standard bw.stb - Plot Date: 5-Feb-16



PRIOR TO COLD-MILLING OR REMOVING PAVEMENT, TRAFFIC SIGNAL "BUCKS" MUST BE REMOVED BY THE CITY OF ANN ARBOR TRAFFIC SIGNAL DEPARTMENT. COORDINATE REMOVALS ONE WEEK PRIOR TO COLD-MILLING OR PAVEMENT REMOVAL OPERATIONS.

MATCH STATION 6+50 SEE BELOW

CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

**811**  
Know what's below. Call before you dig.

01 PROJECT MANAGER REVIEW 11/24/2015 JKA  
00 SOIL BORING LOCATION SHEET 10/05/2015 JKA  
REV. DATE DESCRIPTION DRAWN CHECKED

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**PROJECT MANAGEMENT - CITY OF ANN ARBOR**  
S. DIVISION ST. RESURFACING  
REMOVALS & ADJUSTMENTS

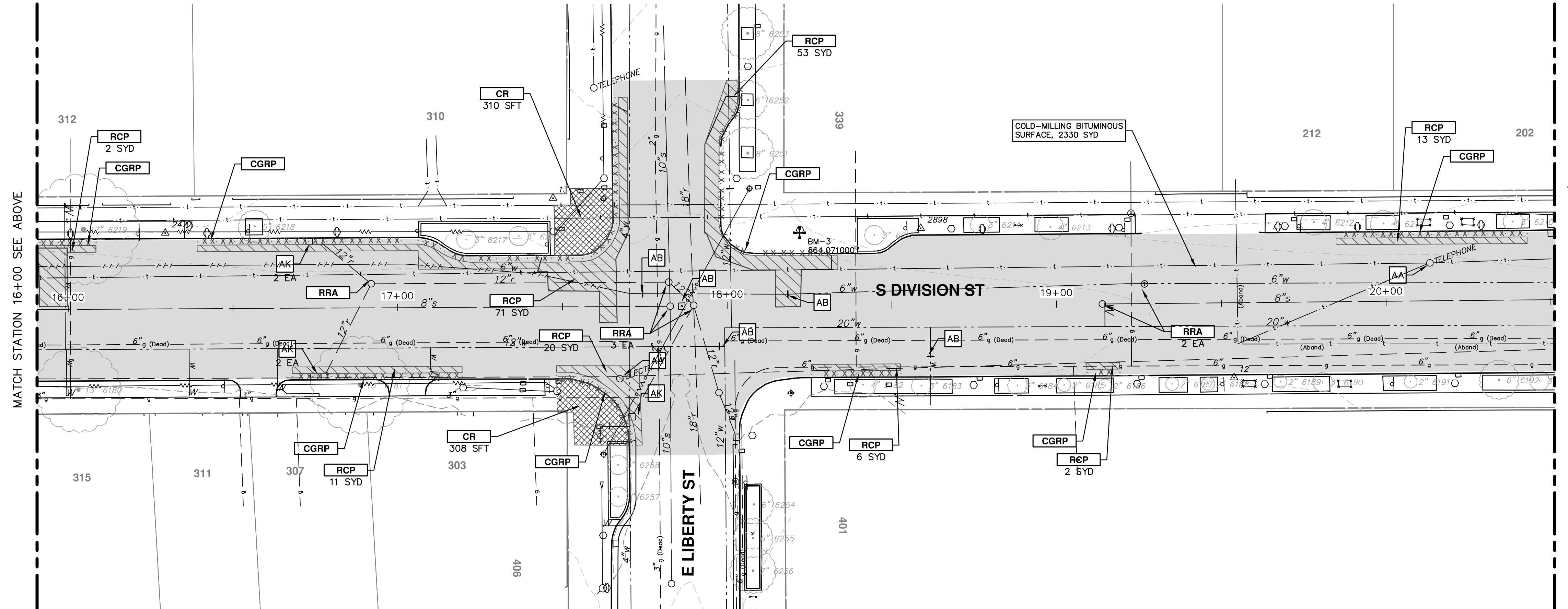
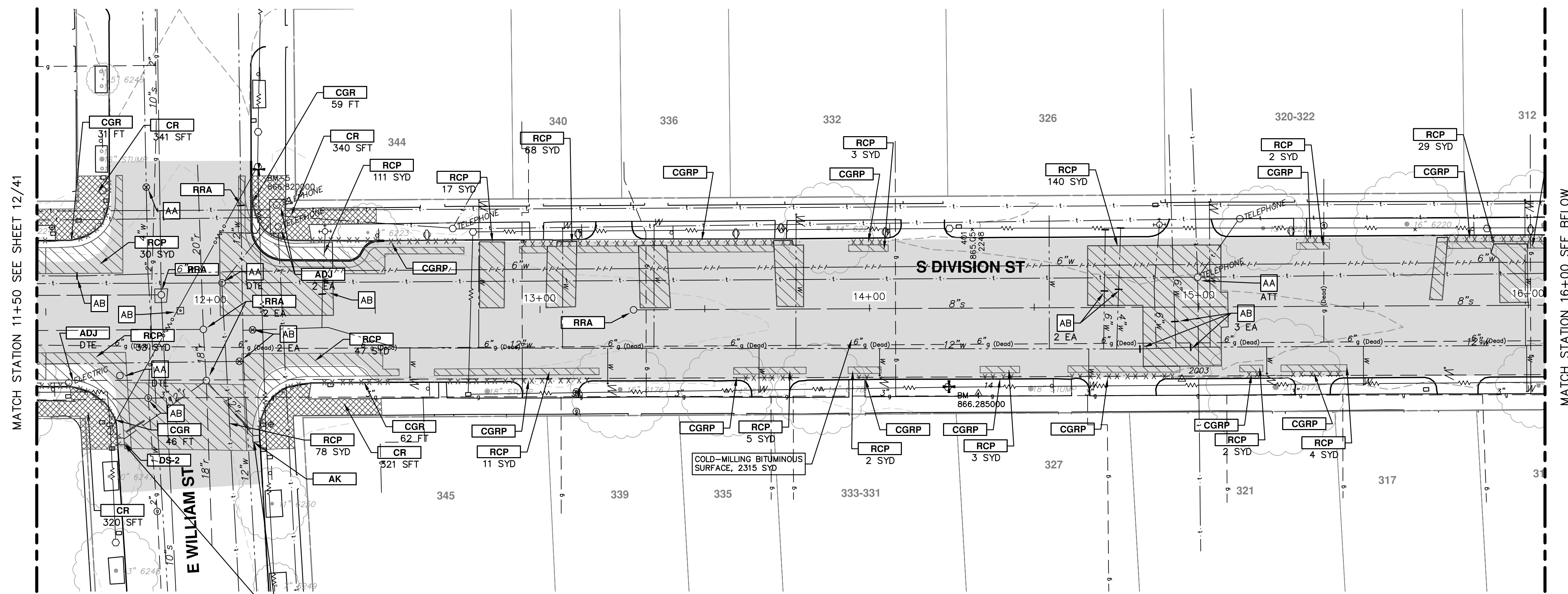
SCALE PLAN: 1" = 20'  
PROFILE: 1" = 4'

DRAWING No. 2015038-12

SHEET No. 12 OF 41

REM 1+50 TO 11+50

S:\Project Management\Design\20150338 Division\Plan Production\20150338 REM.dwg Dwg Created: 19-Jan-16 - \_a2 standard bw.stb - Plot Date: 5-Feb-16



PRIOR TO COLD-MILLING OR REMOVING PAVEMENT, TRAFFIC SIGNAL "PUCKS" MUST BE REMOVED BY THE CITY OF ANN ARBOR TRAFFIC SIGNAL DEPARTMENT. COORDINATE REMOVALS ONE WEEK PRIOR TO COLD-MILLING OR PAVEMENT REMOVAL OPERATIONS.

CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE STRUCTURE COVER ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

01	PROJECT MANAGER REVIEW	11/24/2015	JKA
00	SOIL BORING LOCATION SHEET	10/05/2015	JKA
	DATE		
	DESCRIPTION		

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ANN ARBOR, MI 48106-8647  
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**PROJECT MANAGEMENT - CITY OF ANN ARBOR**  
**S. DIVISION ST. RESURFACING**  
REMOVALS & ADJUSTMENTS

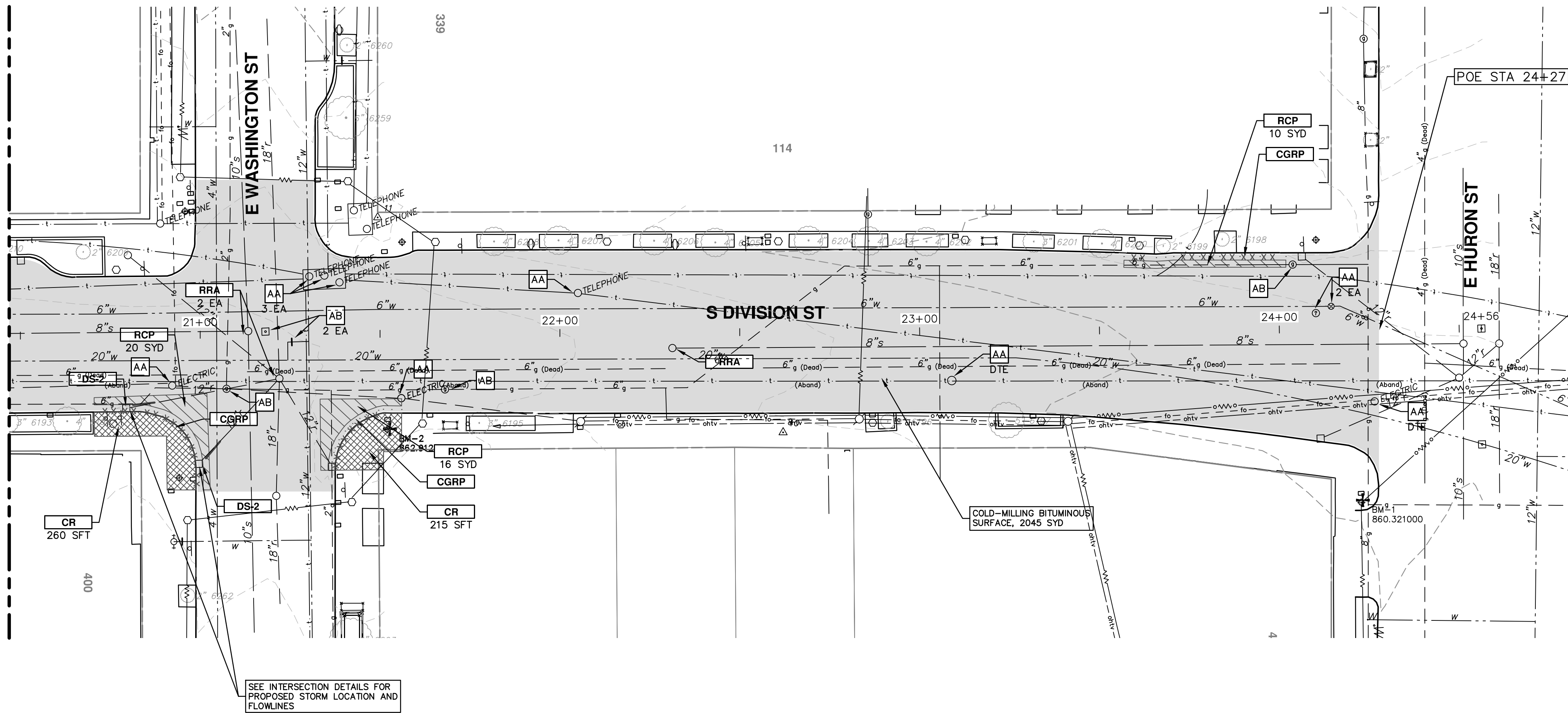
REM 11+50 TO 20+50

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 4'

DRAWING No. 20150338-13

SHEET No. 13 OF 41

MATCH STATION 20+50 SEE SHEET 13/41



SEE INTERSECTION DETAILS FOR PROPOSED STORM LOCATION AND FLOWLINES

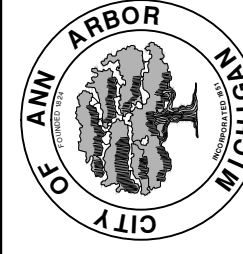
PRIOR TO COLD-MILLING OR REMOVING PAVEMENT, TRAFFIC SIGNAL "PUCKS" MUST BE REMOVED BY THE CITY OF ANN ARBOR TRAFFIC SIGNAL DEPARTMENT. COORDINATE REMOVALS ONE WEEK PRIOR TO COLD-MILLING OR PAVEMENT REMOVAL OPERATIONS.

CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
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ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
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CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
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CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE STRUCTURE COVER ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION



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www.a2gov.org



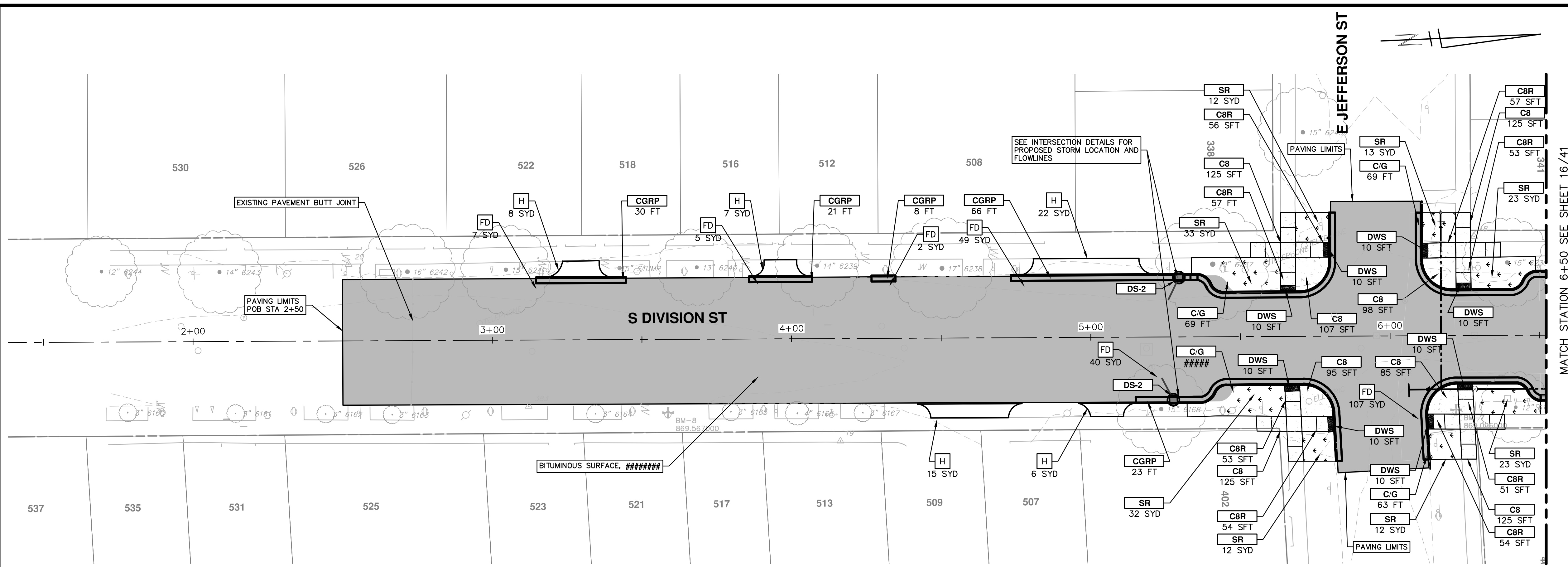
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
S. DIVISION ST. RESURFACING  
REMOVALS & ADJUSTMENTS  
REM 20+50 TO 24+50

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 4'  
DRAWING No.  
2015038-14

SHEET No.  
14 OF 41

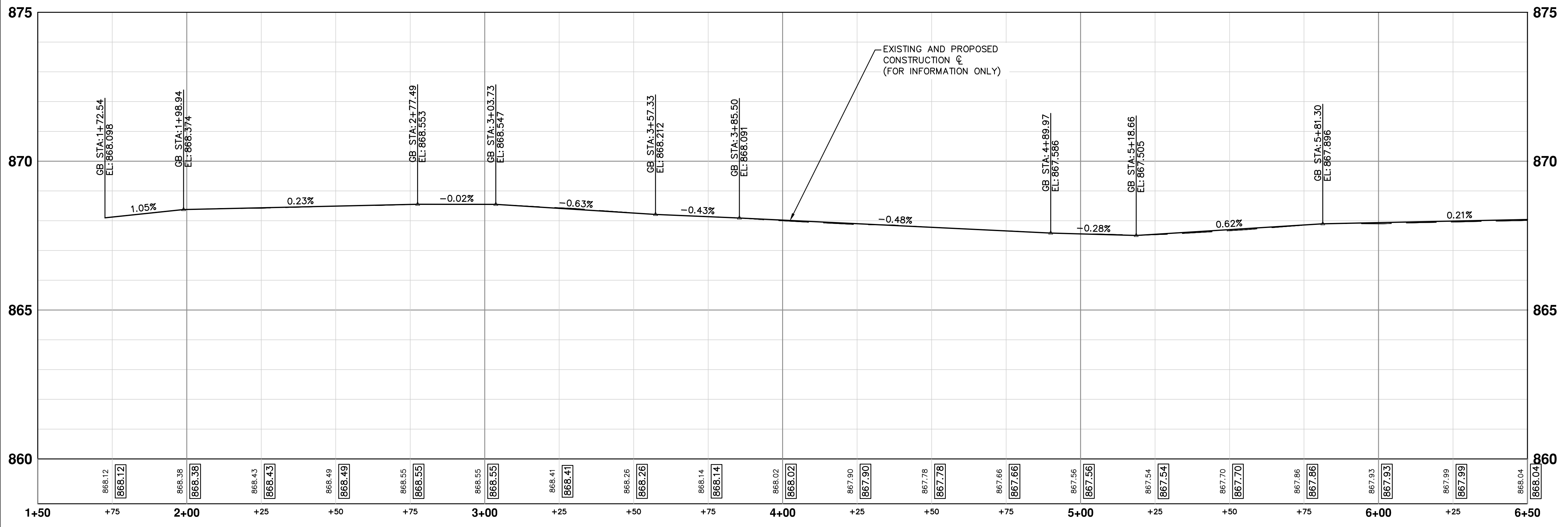
REV.	DESCRIPTION	DATE	CHECKED	DRAWN
01	PROJECT MANAGER REVIEW	11/24/2015	JKA	JAN
00	SOIL BORING LOCATION SHEET	10/05/2015	JKA	AMW

S:\Project Management\Design\2015038 - Division\Plan Production\2015038 PPRD.dwg Dwg Created: 24-Nov-15 - a2 standard bw.stb - Plot Date: 5-Feb-16



- NOTES**
1. QUANTITIES FOR HAND HOLES HAVE BEEN PROVIDED TO REPLACE HAND HOLES AFFECTED BY BUMP OUT CONSTRUCTION.
  2. EMBANKMENT CIP QUANTITIES INCLUDES ALL WORK AND MATERIALS TO CONSTRUCT, EXTEND BUMP OUT, SIDEWALK, AND CURB THROUGH SUBBASE.
  3. ALL CURB AND GUTTER IS TO BE HIGH EARLY CONCRETE.
  4. ALL SIDEWALK AND RAMPS TO BE CONSTRUCTED WITH HIGH EARLY FIBER-MESH REINFORCED CONCRETE.
  5. AT ALL INTERSECTIONS INSTALL GEO-SYNTHETIC PAVING LAYER WITHIN DIVISION ST. ONLY. DO NOT PLACE IN LEGS OF SIDE INTERSECTIONS.

**DIVISION (1)**



CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
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DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

**811**  
Know what's below. Call before you dig.

**CITY OF ANN ARBOR PUBLIC SERVICES**  
301 EAST HURON STREET  
PO BOX 8667  
ANN ARBOR MI 48106-8667  
www.a3gov.org

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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
ROAD  
S. DIVISION ST. RESURFACING  
ROAD 1+50 TO 6+50

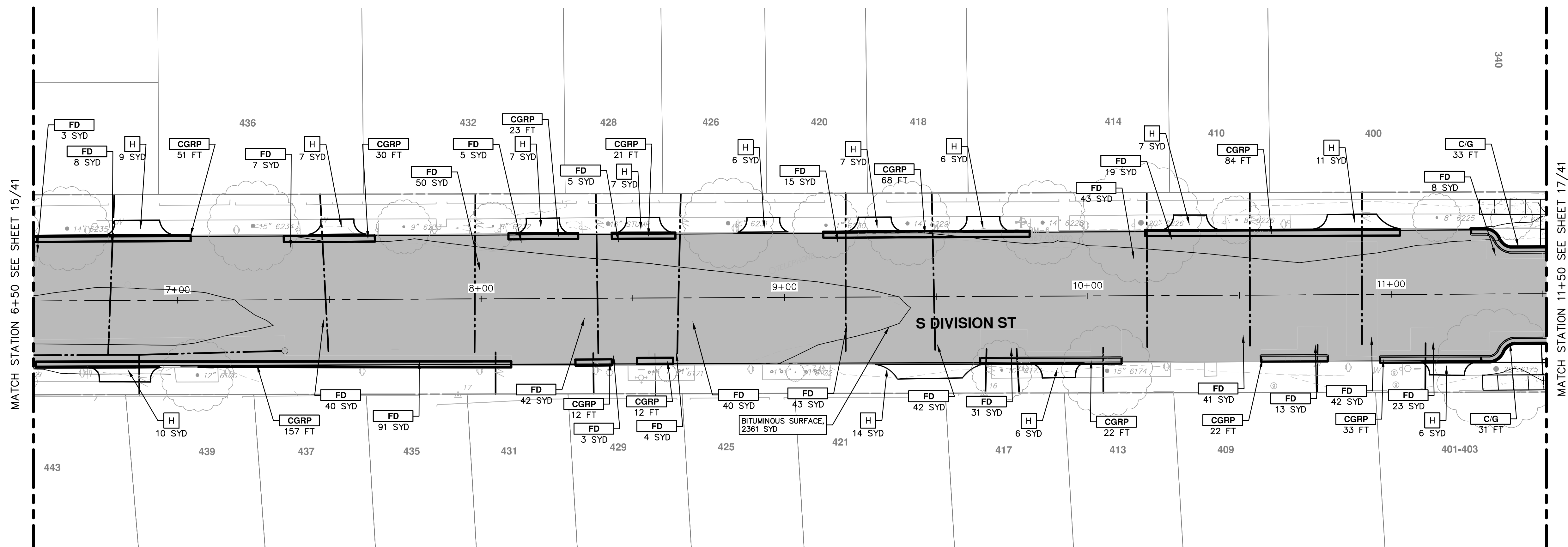
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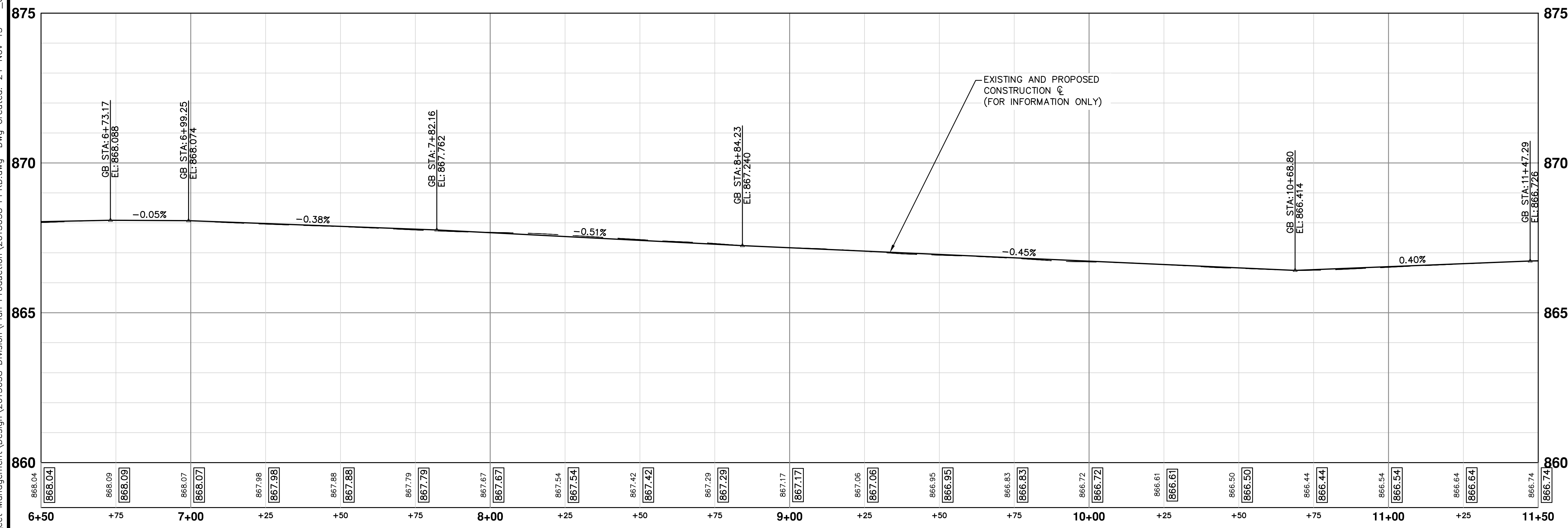
SHEET No. 15 OF 41

DRAWING No. 2015038-15






**DIVISION (1)**




- NOTES**
1. QUANTITIES FOR HAND HOLES HAVE BEEN PROVIDED TO REPLACE HAND HOLES AFFECTED BY BUMP OUT CONSTRUCTION.
  2. EMBANKMENT CIP QUANTITIES INCLUDES ALL WORK AND MATERIALS TO CONSTRUCT, EXTEND BUMP OUT, SIDEWALK, AND CURB THROUGH SUBBASE.
  3. ALL CURB AND GUTTER IS TO BE HIGH EARLY CONCRETE.
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  5. AT ALL INTERSECTIONS INSTALL GEO-SYNTHETIC PAVING LAYER WITHIN DIVISION ST. ONLY, DO NOT PLACE IN LEGS OF SIDE INTERSECTIONS.

CONSTRUCTION KEY	
KEY	DESCRIPTION
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DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
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RRA	TEMP LOWERING EXISTING STRUCTURE STRUCTURE COVER ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION



Know what's below.  
Call before you dig.

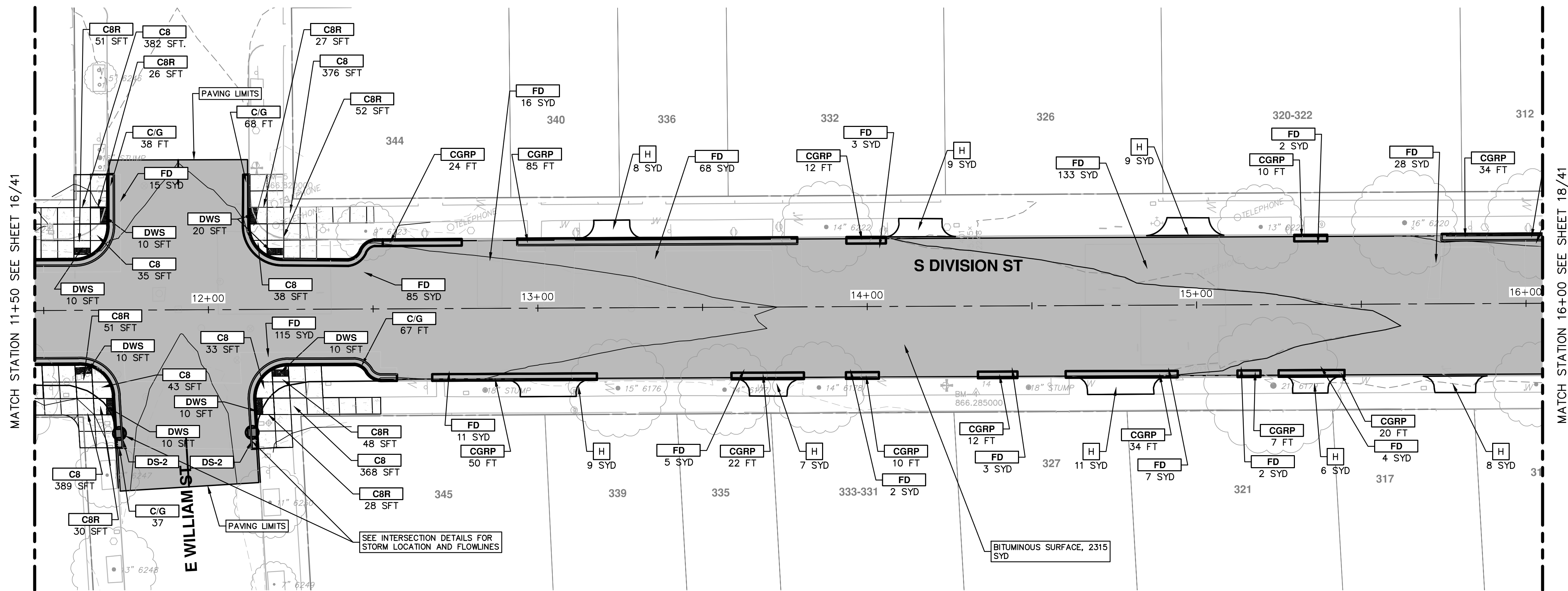
REV.	01	PROJECT MANAGER REVIEW	JKA	11/24/2015	JKA	DRAWN	JKA	CHECKED
REV.	00	SOIL BORING LOCATION SHEET	JKA	10/05/2015	JKA	DRAWN	JKA	CHECKED
		DESCRIPTION						



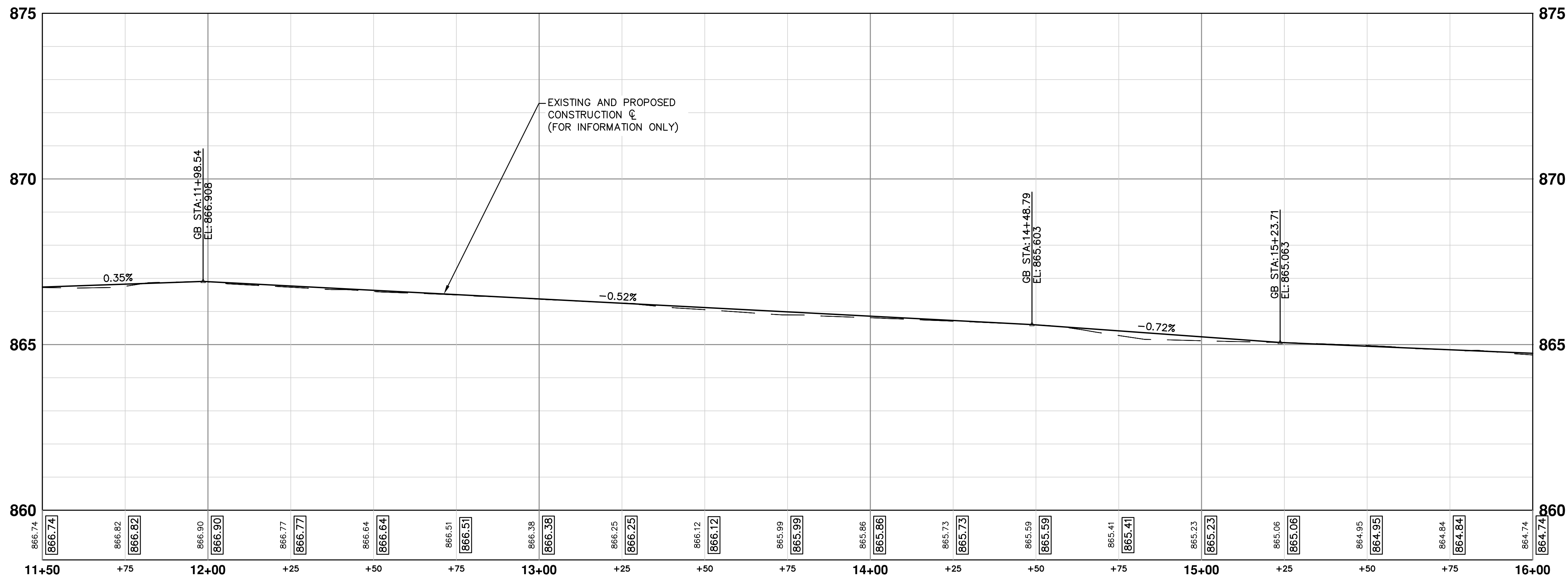
**CITY OF ANN ARBOR  
PUBLIC SERVICES**  
301 EAST HURON STREET  
PO BOX 8667  
ANN ARBOR MI 4810-8667  
www.a2gov.org

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
ROAD  
**S. DIVISION ST. RESURFACING**  
ROAD 6+50 TO 11+50

SCALE PLAN: #####  
PROFILE: 1" = 4'  
DRAWING No. **2015038-16**  
SHEET No. **16 OF 41**



**DIVISION (1)**



**NOTES**

- QUANTITIES FOR HAND HOLES HAVE BEEN PROVIDED TO REPLACE HAND HOLES AFFECTED BY BUMP OUT CONSTRUCTION.
- EMBANKMENT CIP QUANTITIES INCLUDES ALL WORK AND MATERIALS TO CONSTRUCT, EXTEND BUMP OUT, SIDEWALK, AND CURB THROUGH SUBBASE.
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- ALL SIDEWALK AND RAMPS TO BE CONSTRUCTED WITH HIGH EARLY FIBER-MESH REINFORCED CONCRETE.
- AT ALL INTERSECTIONS INSTALL GEO-SYNTHETIC PAVING LAYER WITHIN DIVISION ST. ONLY. DO NOT PLACE IN LEGS OF SIDE INTERSECTIONS.
- ON WILLIAM AND DIVISION INTERSECTION QUADRANTS ONLY, DETECTABLE WARNING SURFACE (DWS) SHALL BE CAST IRON. (80 SFT).

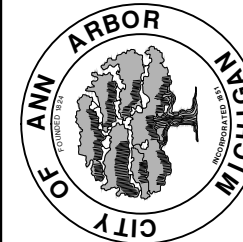
**CONSTRUCTION KEY**

KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
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RRA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION



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PUBLIC SERVICES  
301 EAST HURON STREET  
PO BOX 86610  
ANN ARBOR MI 48106-8667  
www.a2gov.org



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

S. DIVISION ST. RESURFACING

ROAD

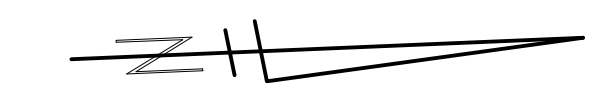
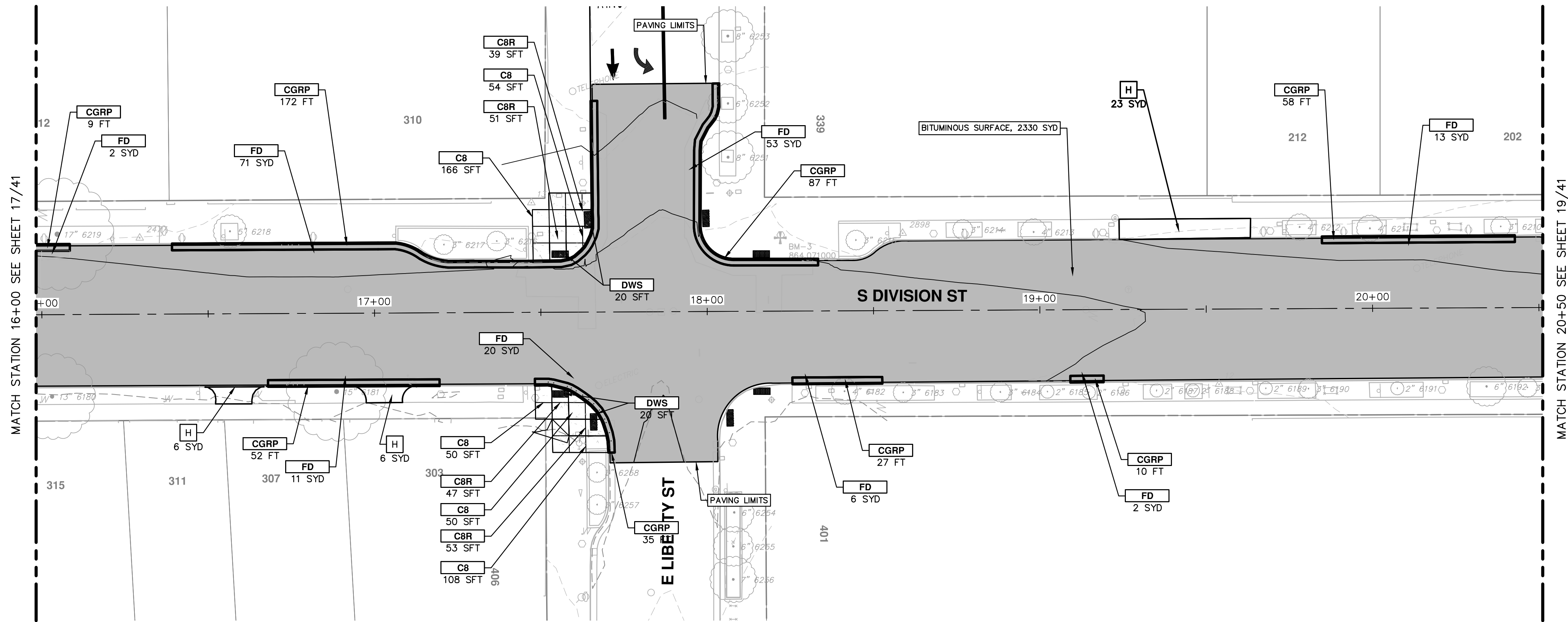
ROAD 11+50 TO 16+00

SCALE PLAN: 1" = 20'

PROFILE: 1" = 4'

DRAWING No. 2015038-17

SHEET No.



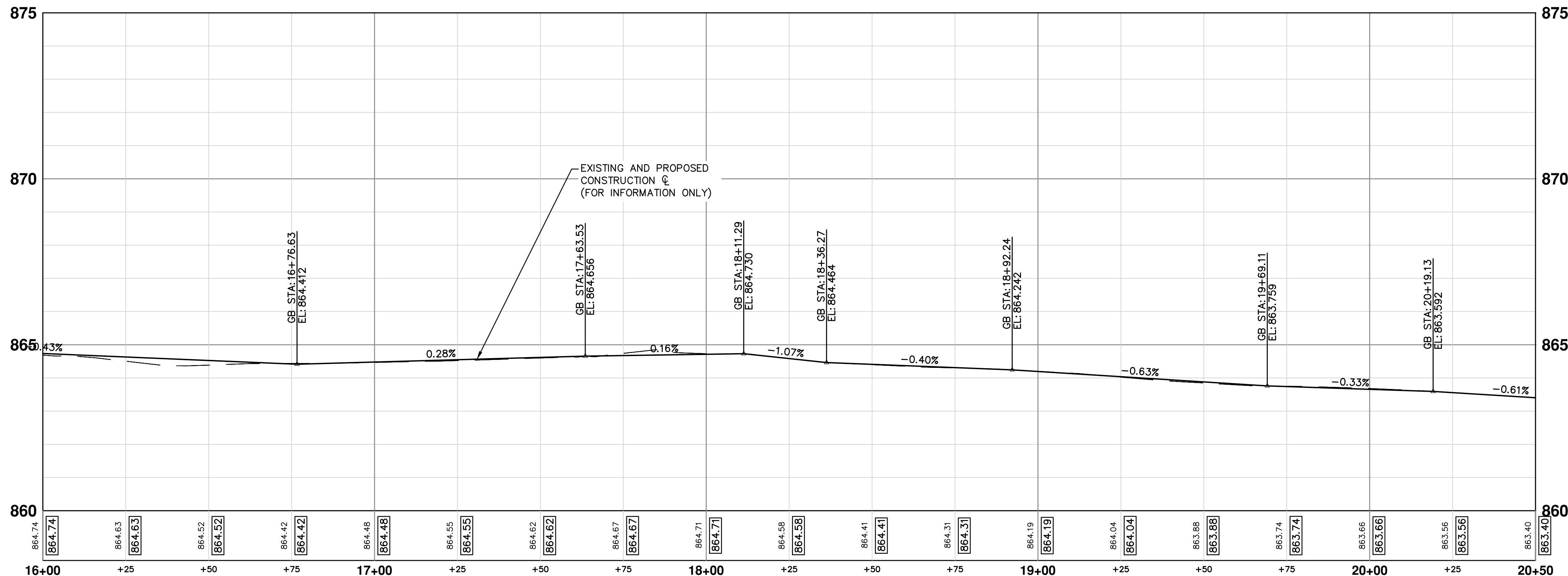
**NOTES**

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**CONSTRUCTION KEY**

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RRA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

**DIVISION (1)**

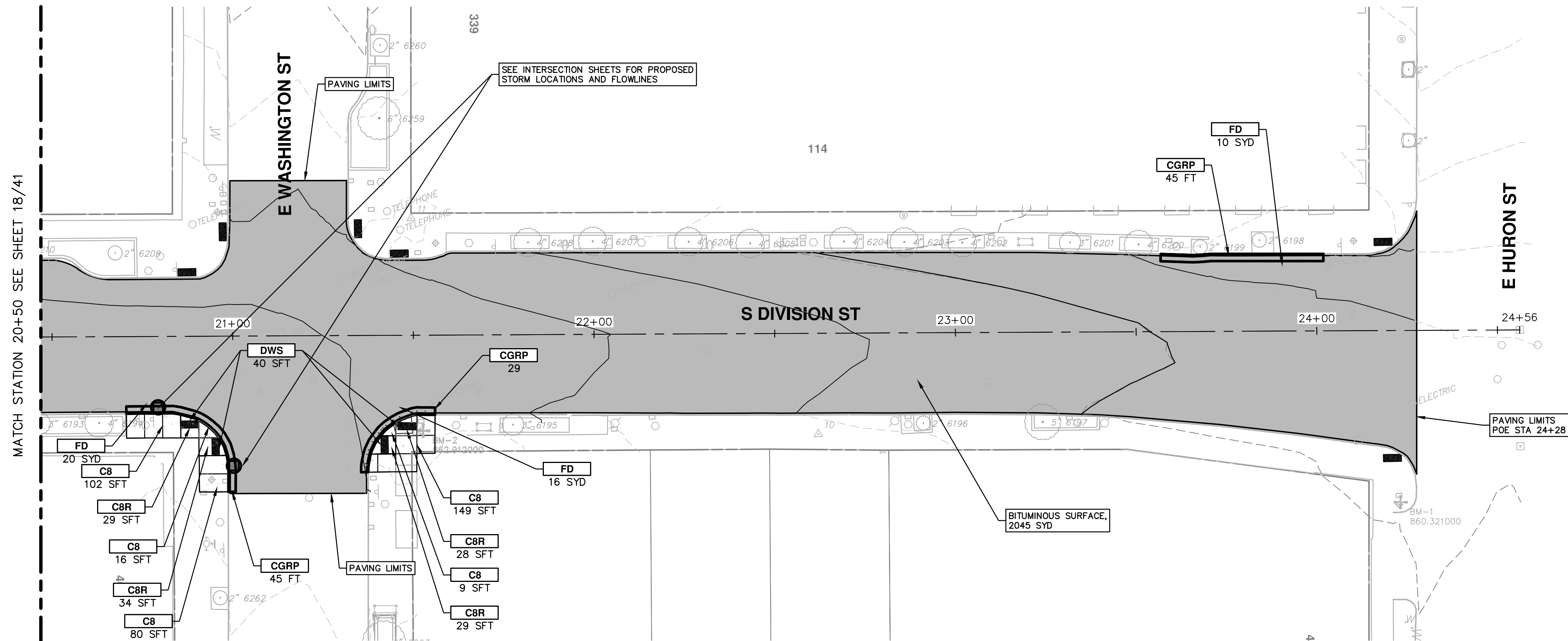


REV.	DATE	DESCRIPTION
01	11/24/2015	PROJECT MANAGER REVIEW
00	10/05/2015	SOIL BORING LOCATION SHEET

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**S. DIVISION ST. RESURFACING**  
ROAD  
ROAD 16+00 TO 20+50

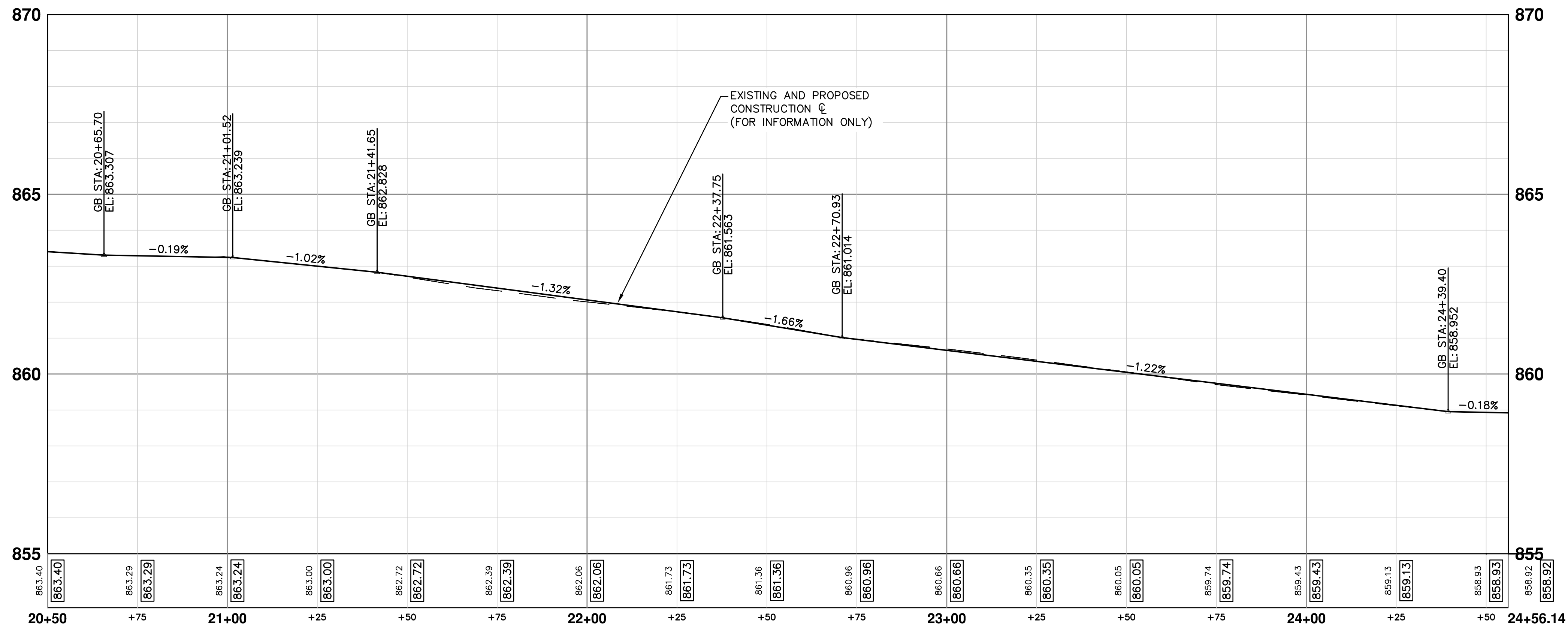
SCALE PLAN: #####  
PROFILE: 1" = 4'  
DRAWING No. 2015038-18  
SHEET No.



- NOTES**
1. QUANTITIES FOR HAND HOLES HAVE BEEN PROVIDED TO REPLACE HAND HOLES AFFECTED BY BUMP OUT CONSTRUCTION.
  2. EMBANKMENT CIP QUANTITIES INCLUDES ALL WORK AND MATERIALS TO CONSTRUCT, EXTEND BUMP OUT, SIDEWALK, AND CURB THROUGH SUBBASE.
  3. ALL CURB AND GUTTER IS TO BE HIGH EARLY CONCRETE.
  4. ALL SIDEWALK AND RAMPS TO BE CONSTRUCTED WITH HIGH EARLY FIBER-MESH REINFORCED CONCRETE.
  5. AT ALL INTERSECTIONS INSTALL GEO-SYNTHETIC PAVING LAYER WITHIN DIVISION ST. ONLY. DO NOT PLACE IN LEGS OF SIDE INTERSECTIONS.

CONSTRUCTION KEY	
KEY	DESCRIPTION
AA	TEMP LOWERING EXISTING STRUCTURE ADJUST STRUCTURE COVER
AB	TEMP LOWERING EXISTING STRUCTURE ADJUST GATE VALE BOX OR ADJUST MONUMENT BOX
ADJ	ADJUST STRUCTURE COVER
AK	ADJUST STRUCTURE COVER
C6	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 6 INCH
C8	REMOVE CONCRETE SIDEWALK - ANY THICKNESS SIDEWALK, CONC, 8 INCH
C8R	SIDEWALK RAMP, CONC, 8 INCH
CR	REMOVE CONCRETE SIDEWALK - ANY THICKNESS
C/G	AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER
CGR	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE
CGRP	REMOVE CONCRETE CURB AND GUTTER - ANY TYPE AGGREGATE BASE, 8 INCH, 21AA CURB AND GUTTER, CONC, BARRIER OR DRIVE OPENING, CONC, TYPE M
DS	STORM SEWER STRUCTURE, REMOVE STORM SEWER PIPE, LESS THAN 24 INCH, REMOVE STORM SEWER, RCP, 12 INCH & SD-TR-1 SINGLE INLET OR DOUBLE INLET STRUCTURE COVER
DWS	DETECTABLE WARNING SURFACE
FD	AGGREGATE BASE, 8 INCH, 21AA HMA, 3E3
H	HMA, WEDGING, 36A
PT	POINT EXISTING STRUCTURE
RCP	HMA SURFACE, REM REMOVE CONCRETE PAVEMENT - ANY THICKNESS
RRA	TEMP LOWERING EXISTING STRUCTURE STRUCTURE COVER ADJUST STRUCTURE COVER
SR	SLOPE RESTORATION

**DIVISION (1)**



REV.	DATE	DESCRIPTION
01	11/24/2015	PROJECT MANAGER REVIEW
00	10/05/2015	SOIL BORING LOCATION SHEET

CITY OF ANN ARBOR  
PUBLIC SERVICES  
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ANN ARBOR MI 48106-0667  
www.a3gov.org

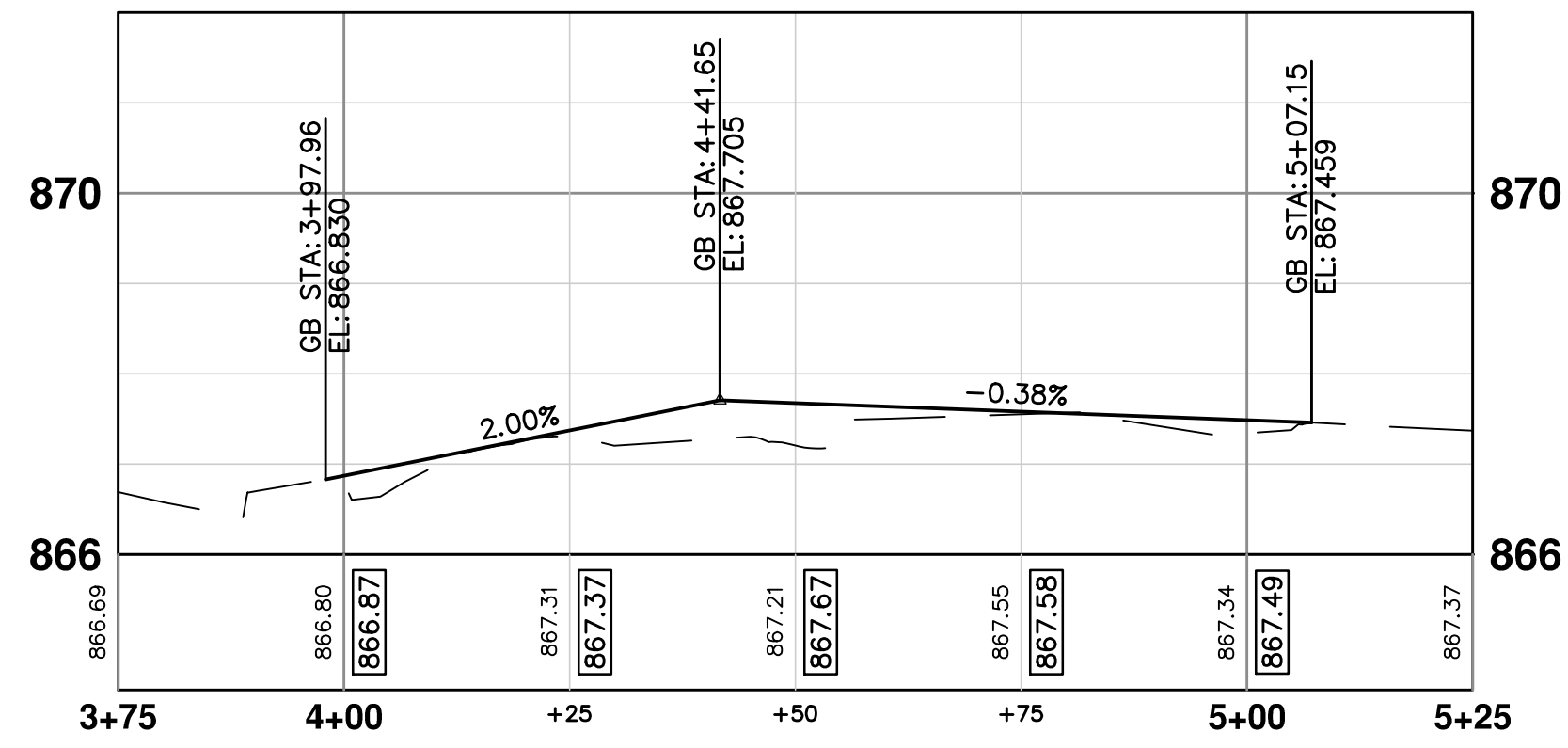
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
S. DIVISION ST. RESURFACING  
ROAD  
ROAD 20+50 TO 24+50

SCALE PLAN: 1" = 20'  
PROFILE: 1" = 4'

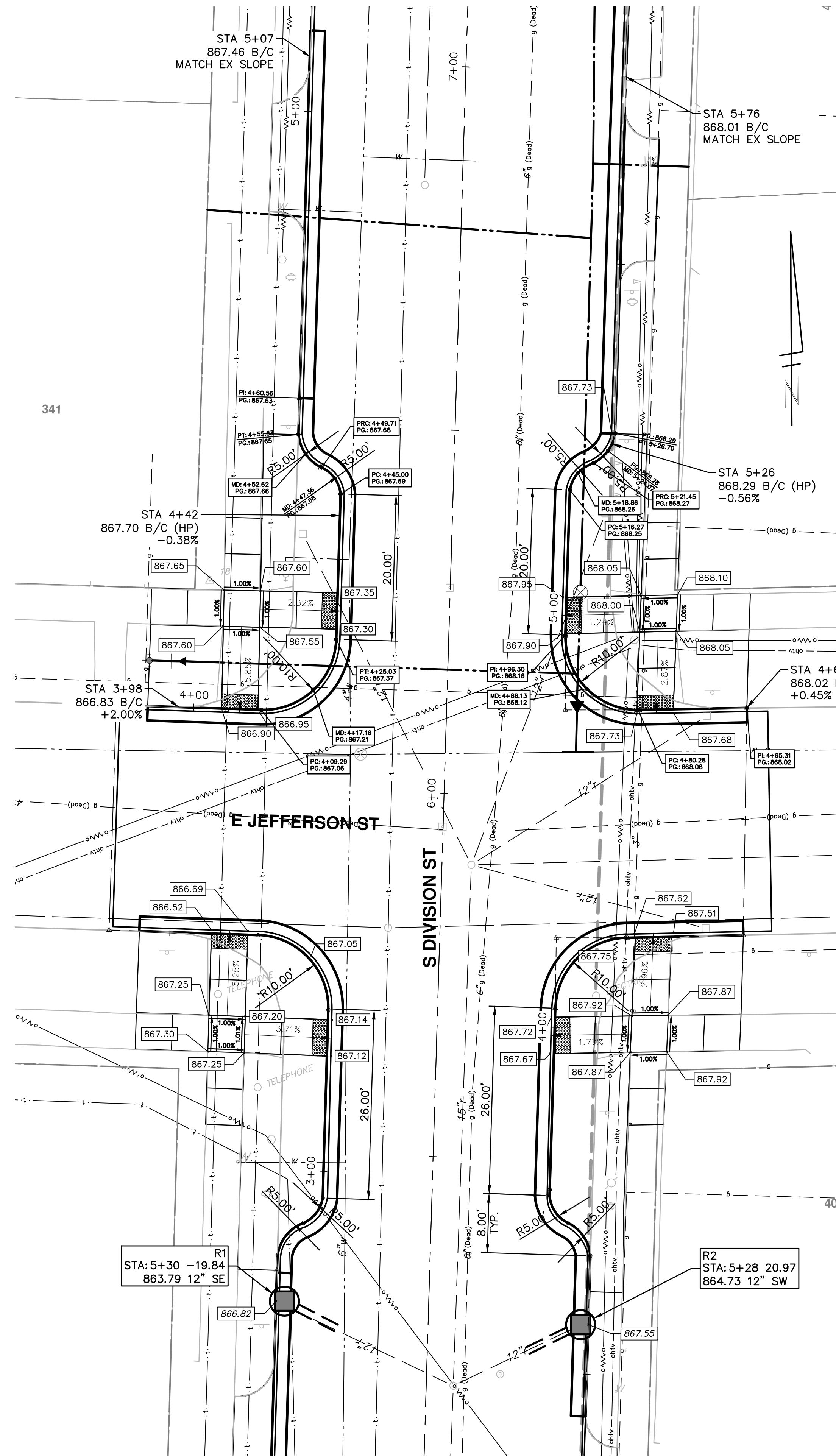
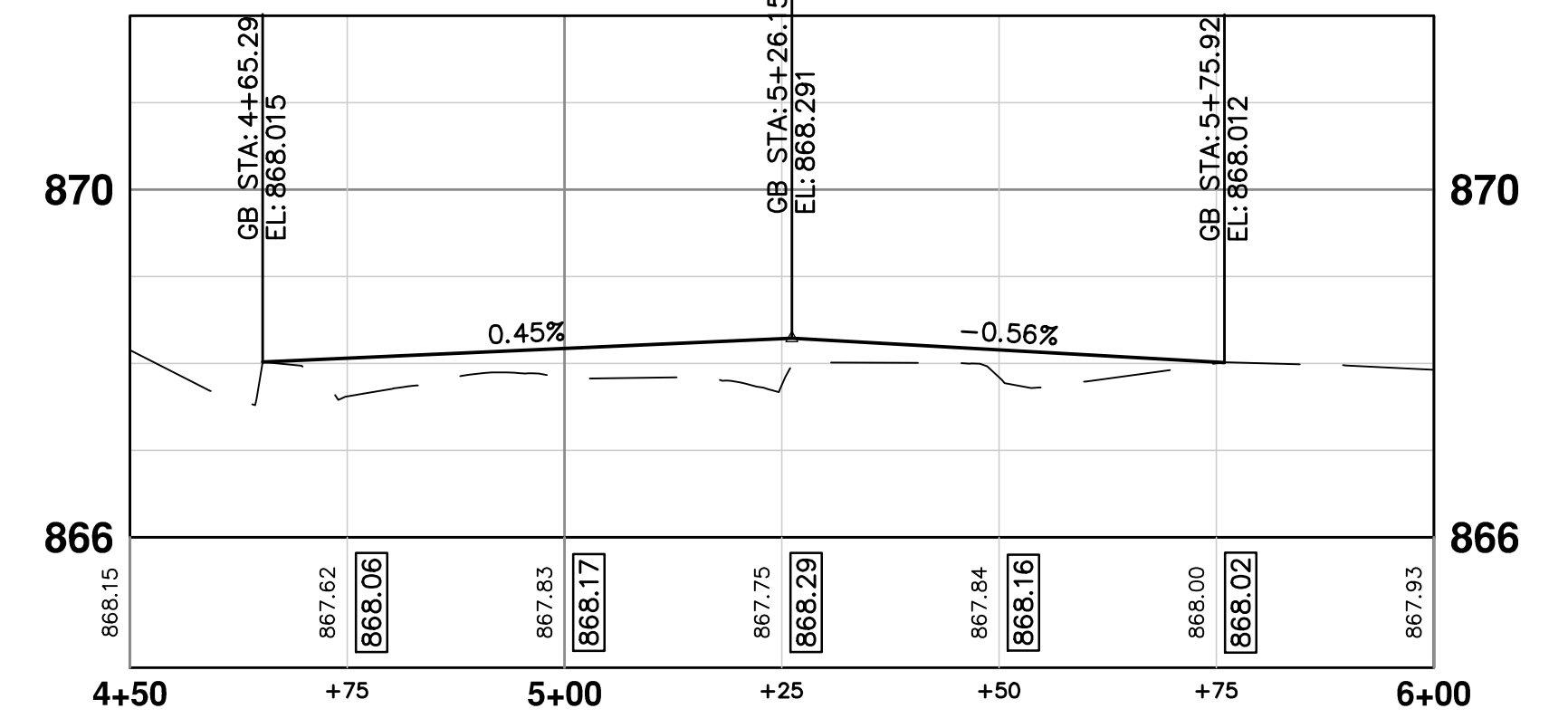
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SHEET No. 19 OF 41

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### LEFT BOC (1)



### RIGHT BOC

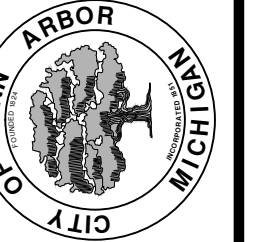


### NOTES

1. PROPOSED GUTTER PAN TO BE OVERLAID UPON PAVING. ELEVATIONS SHOWN ARE TO TOP COURSE OF PROPOSED HMA OVERLAY.



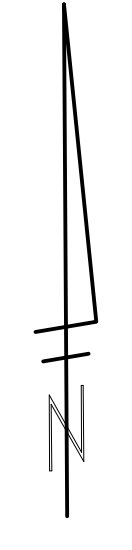
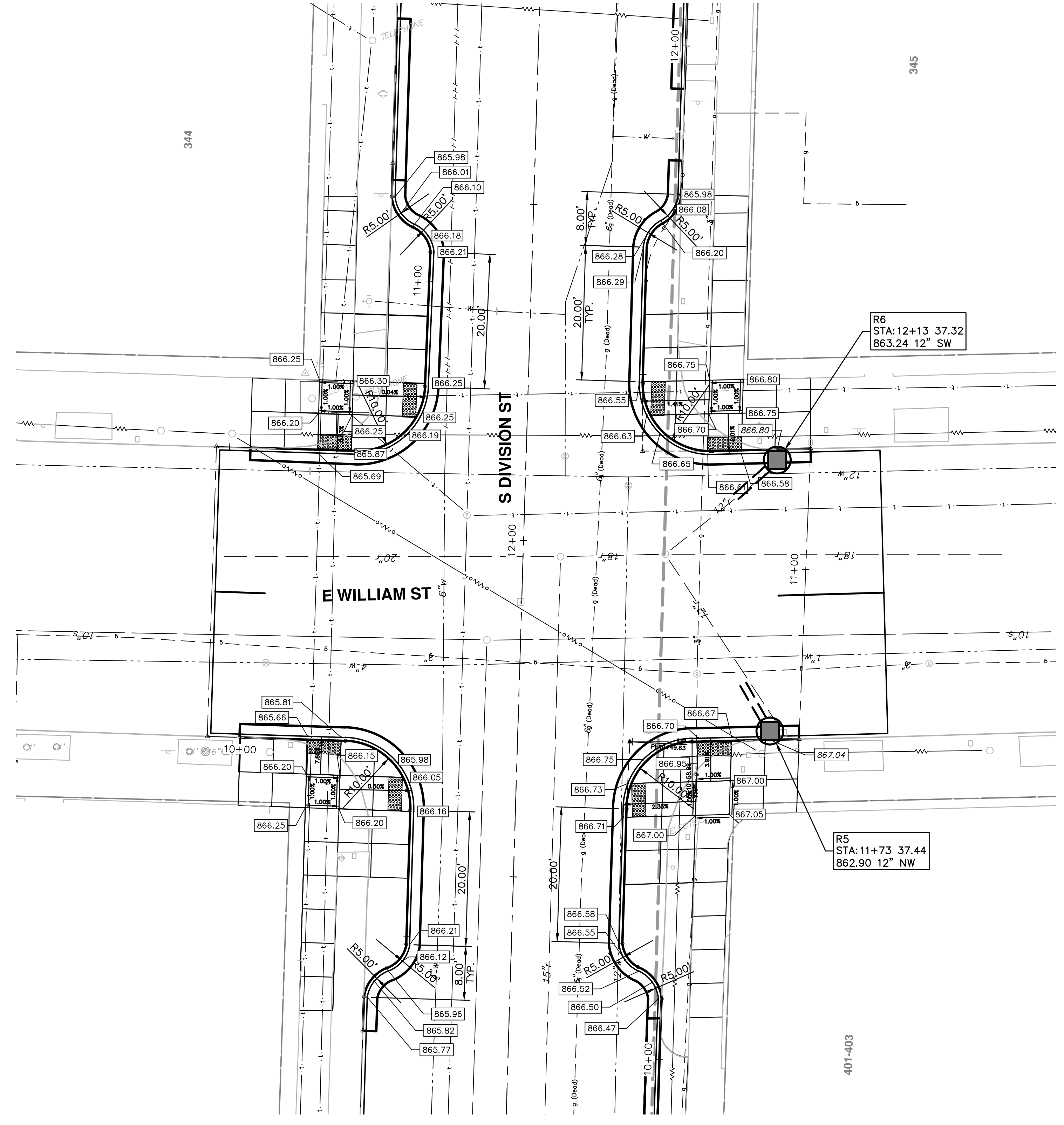
CITY OF ANN ARBOR  
PUBLIC SERVICES  
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ANN ARBOR MI 48106-0667  
www.a2gov.org



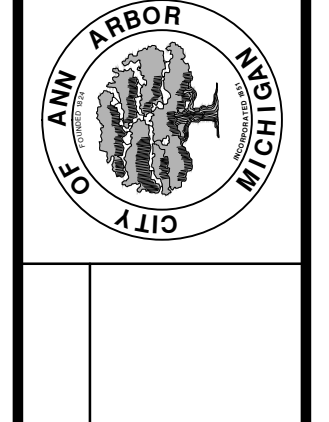
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
S. DIVISION ST. RESURFACING INTERSECTIONS  
JEFFERSON ST

SCALE PLAN: 1" = 10'  
PROFILE: 1" = 4'  
DRAWING No. 2015038-20

REV.	DATE	DESCRIPTION
01	11/24/2015	PROJECT MANAGER REVIEW
00	10/05/2015	SOIL BORING LOCATION SHEET
		CHECKED
		DRAWN
		AMW
		JKA
		JKA
		JAN

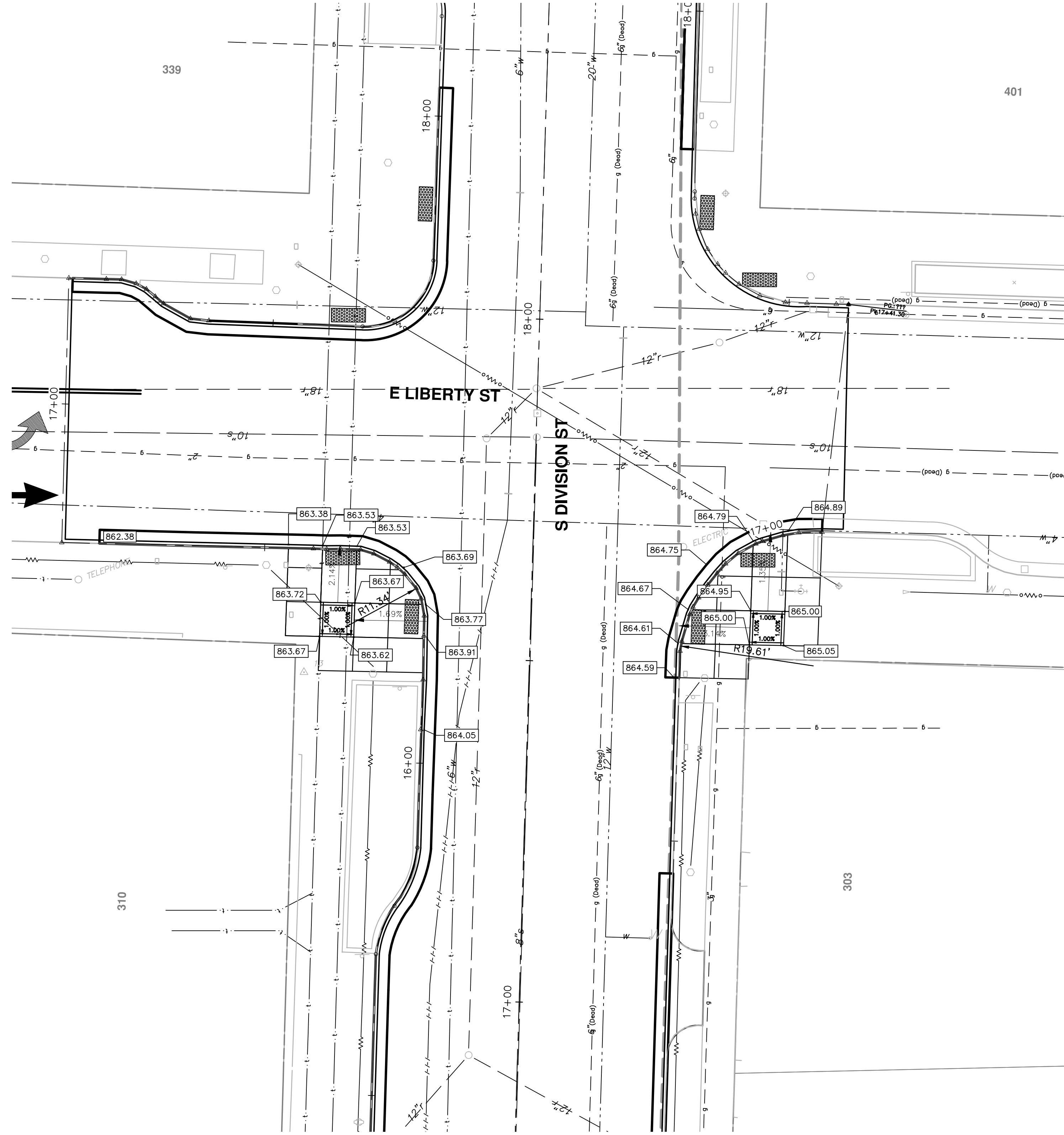


- NOTES**
- PROPOSED GUTTER PAN TO BE OVERLAID UPON PAVING. ELEVATIONS SHOWN ARE TO TOP COURSE OF PROPOSED HMA OVERLAY.
  - ON WILLIAM AND DIVISION INTERSECTION QUADRANTS ONLY, DETECTABLE WARNING SURFACE (DWS) SHALL BE CAST IRON. (80 SFT).



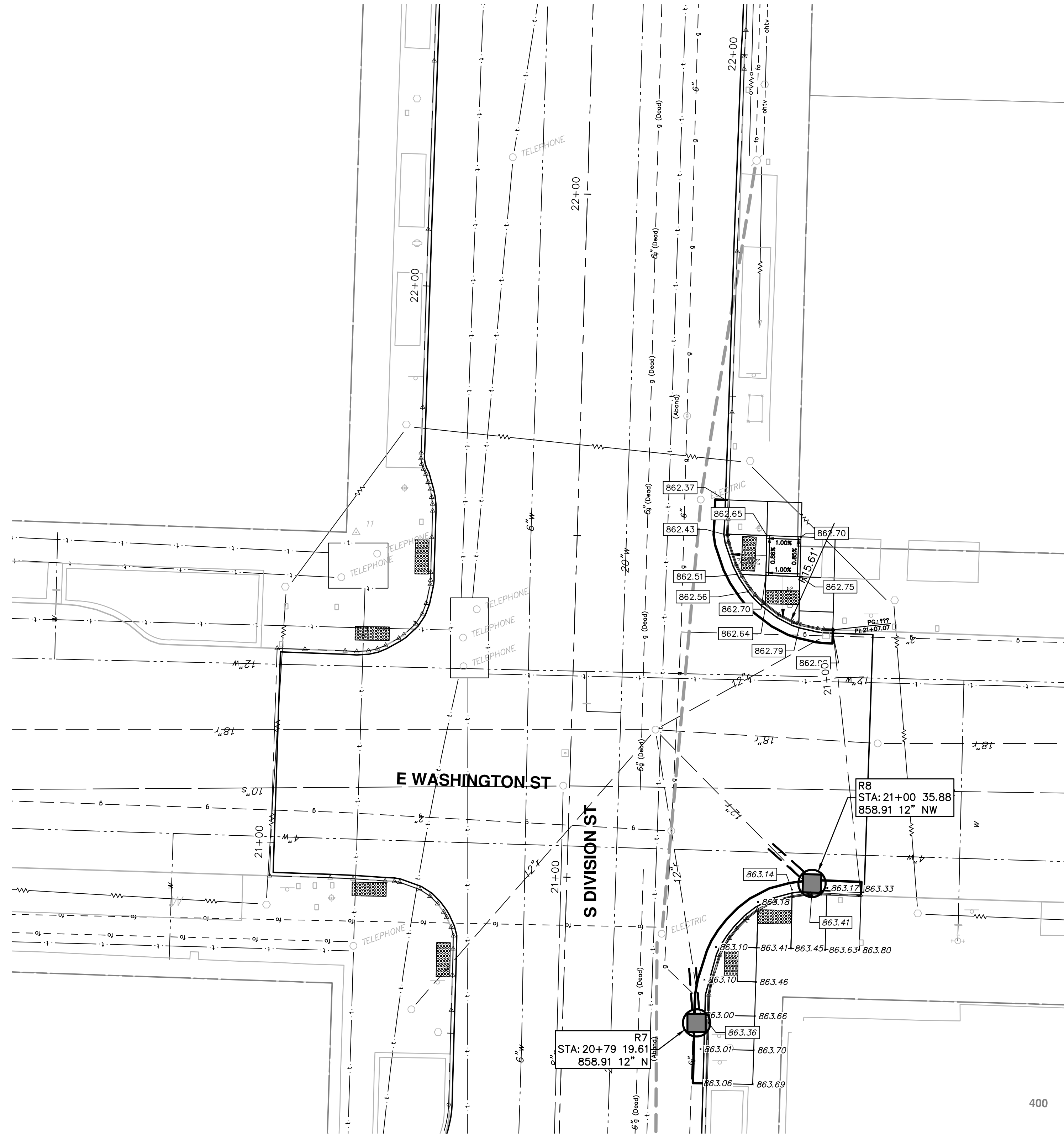
REV.	DATE	DESCRIPTION
01	11/24/2015	PROJECT MANAGER REVIEW
00	10/05/2015	SOIL BORING LOCATION SHEET






**NOTES**  
 1. PROPOSED GUTTER PAN TO BE OVERLAID UPON PAVING.  
 ELEVATIONS SHOWN ARE TO TOP COURSE OF PROPOSED  
 HMA OVERLAY.

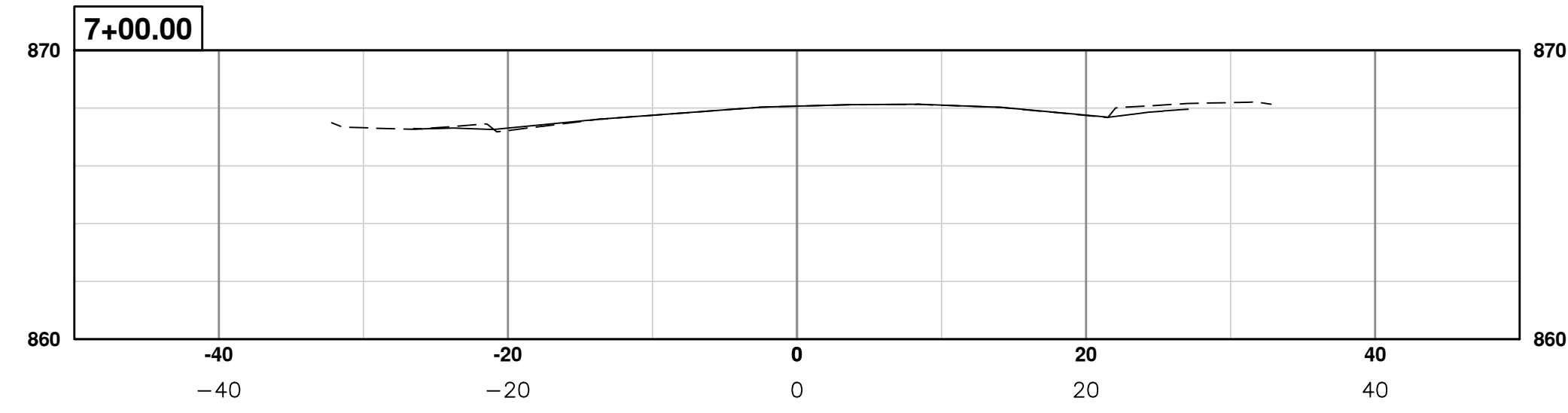
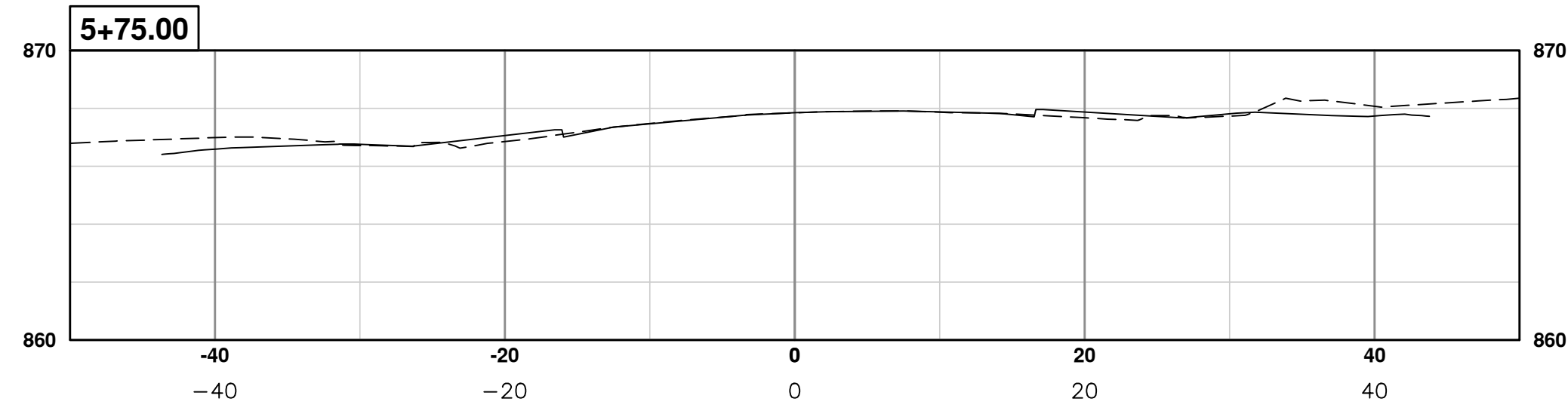
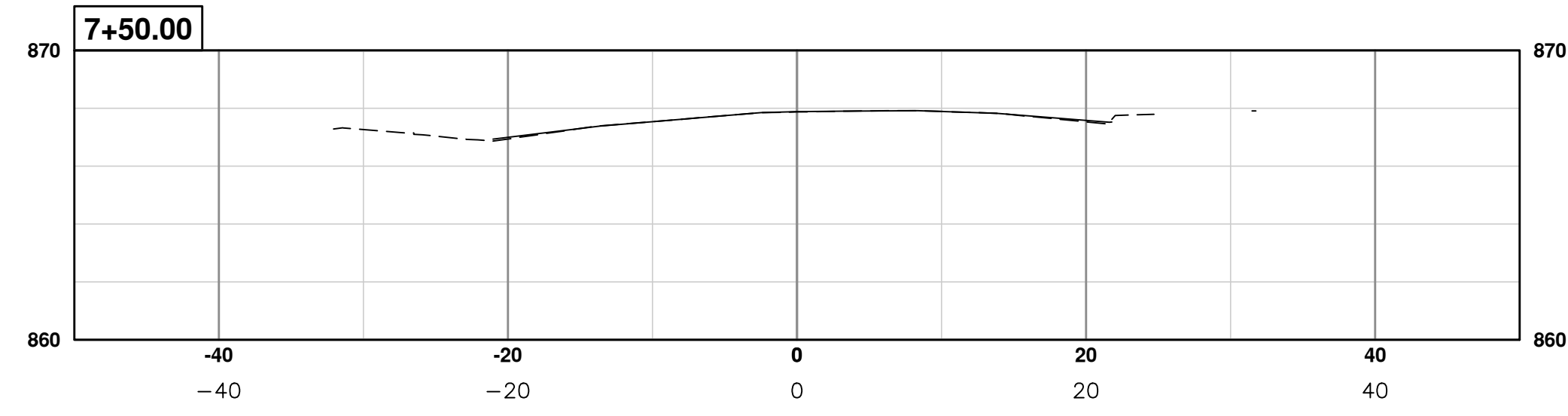
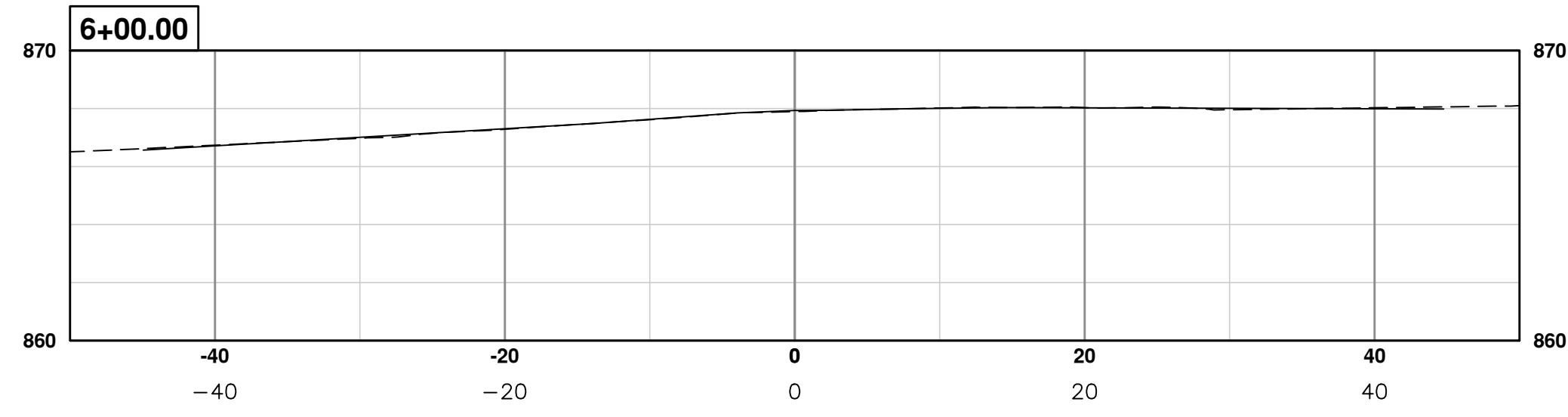
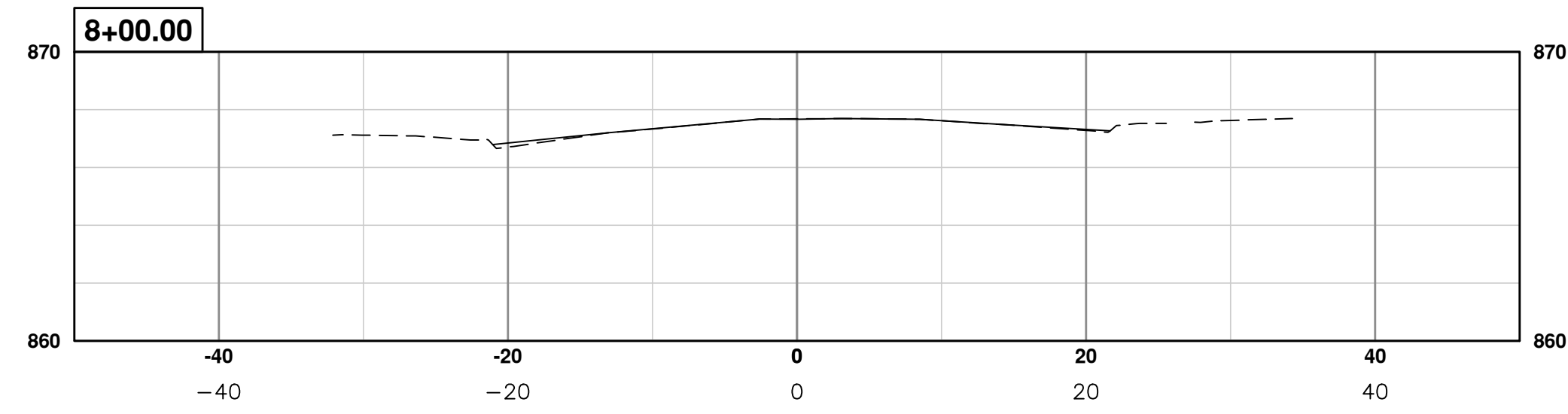
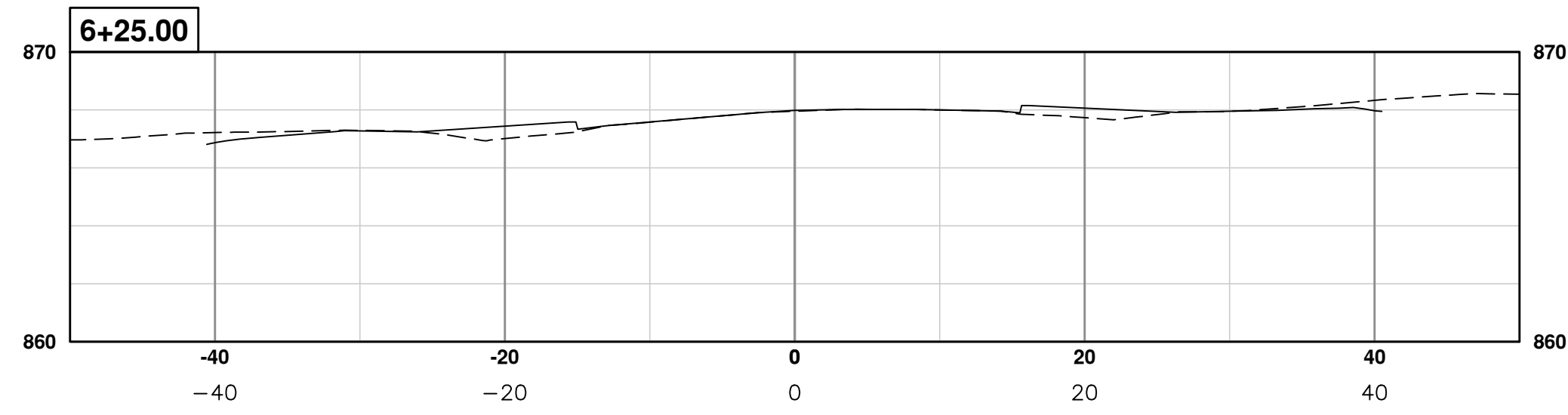
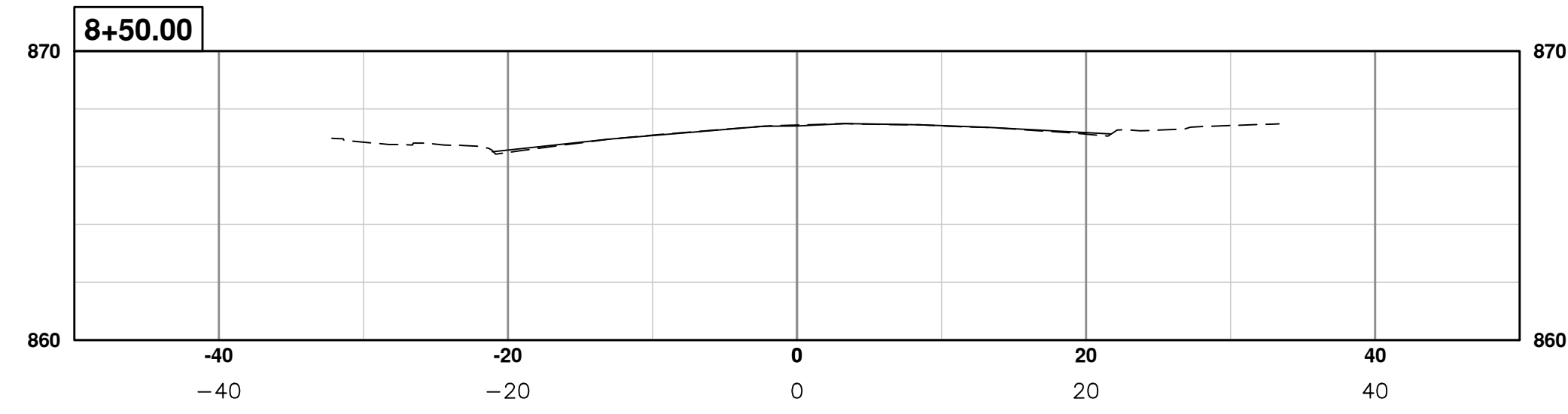
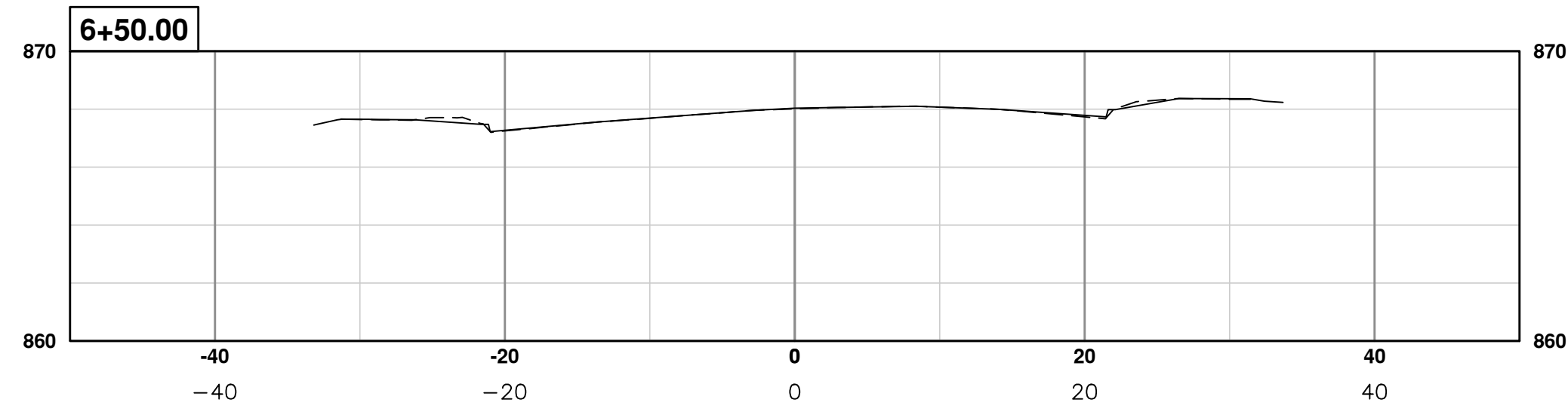
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR S. DIVISION ST. RESURFACING INTERSECTIONS E LIBERTY ST	CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 86600 ANN ARBOR MI 48108-8667 www.a2gov.org
SHEET No. 22 OF 41	SCALE PLAN: 1" = 10' PROFILE: 1" = 4' DRAWING No. 20150338-22
REV.	DESCRIPTION DATE DRAWN CHECKED AMW JKA JAN 10/05/2015 11/24/2015
01	PROJECT MANAGER REVIEW
00	SOIL BORING LOCATION SHEET



**NOTES**  
 1. PROPOSED GUTTER PAN TO BE OVERLAID UPON PAVING. ELEVATIONS SHOWN ARE TO TOP COURSE OF PROPOSED HMA OVERLAY.

		<b>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR</b> <b>S. DIVISION ST. RESURFACING INTERSECTIONS</b> E WASHINGTON ST	
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 www.a2gov.org		SCALE PLAN: 1" = 10' PROFILE: 1" = 4' DRAWING No. 2015038-23	
SHEET No. 23 OF 41	REV. 00 DATE 10/05/2015 DESCRIPTION LOCATION SHEET	REV. 01 DATE 11/24/2015 DESCRIPTION PROJECT MANAGER REVIEW	JAN AMW JKA JKA CHECKED DRAWN





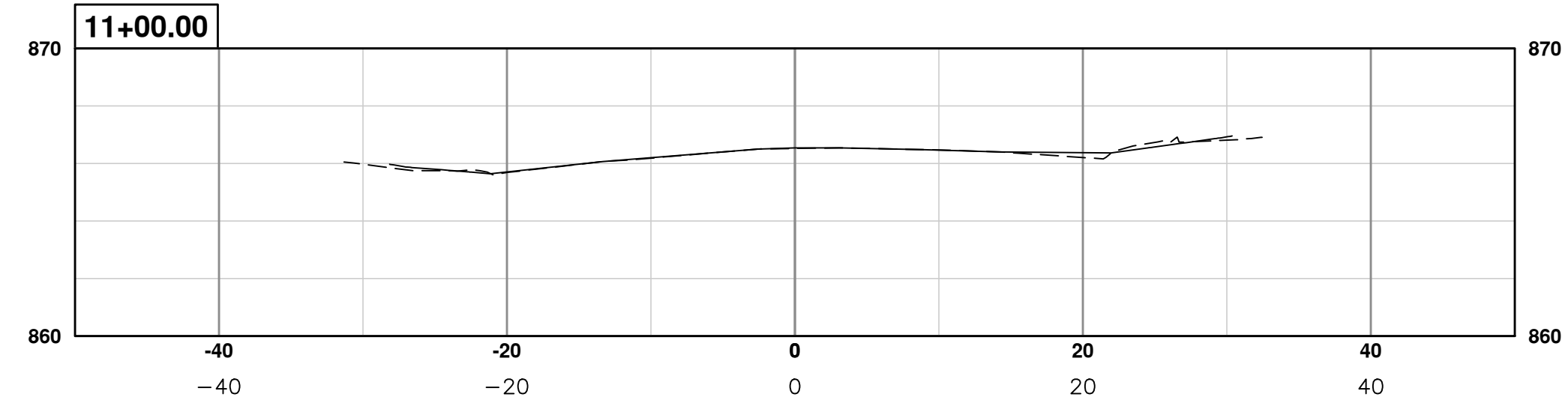
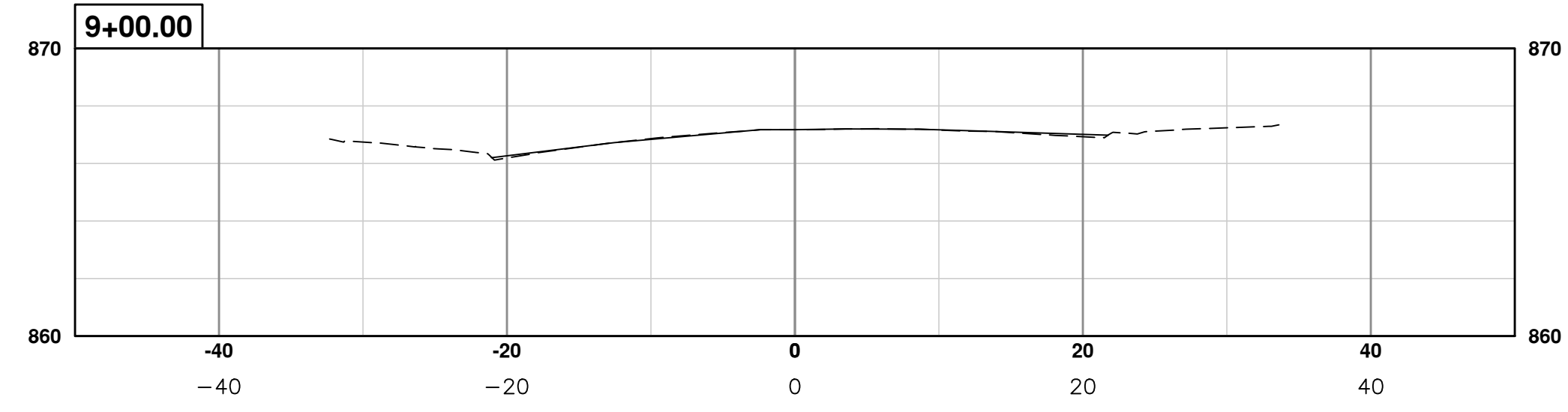
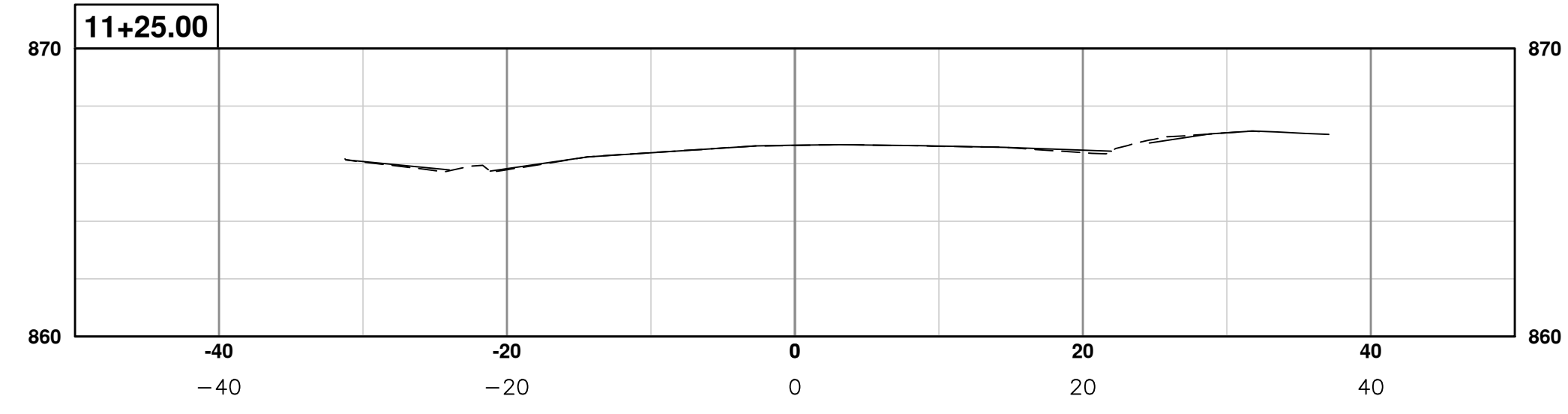
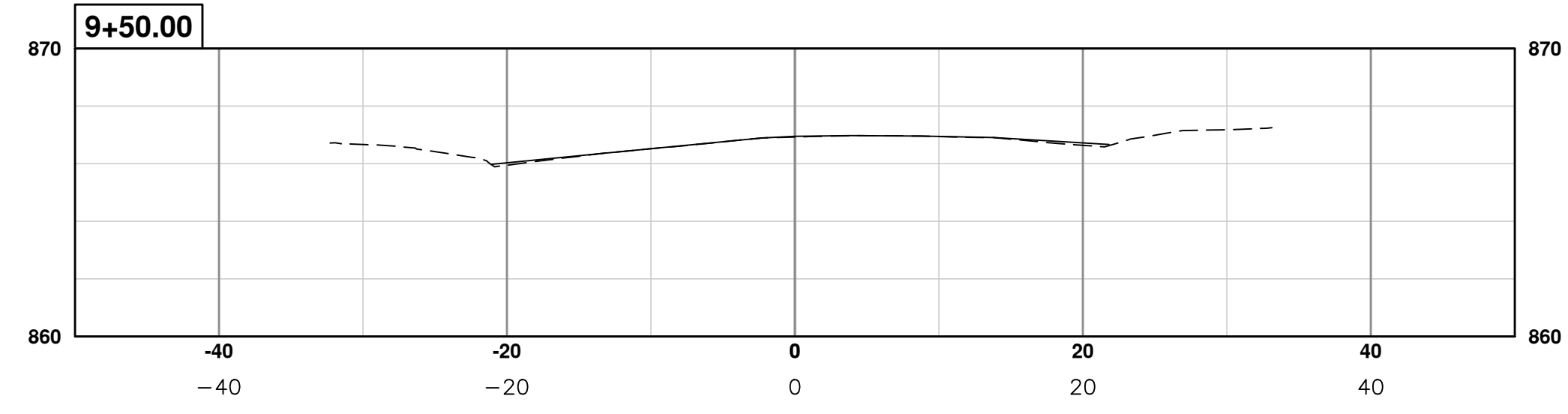
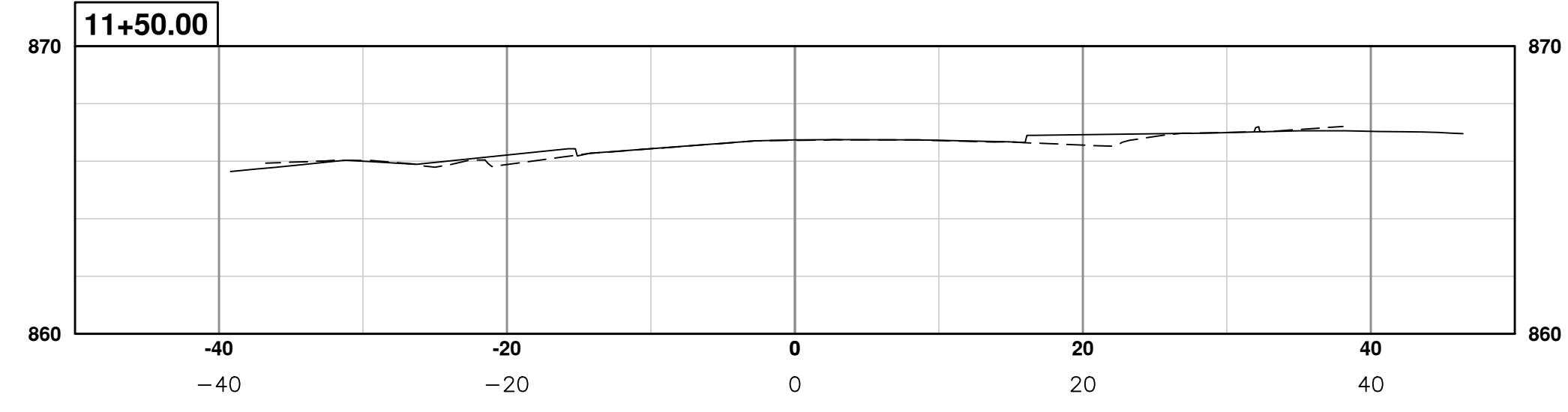
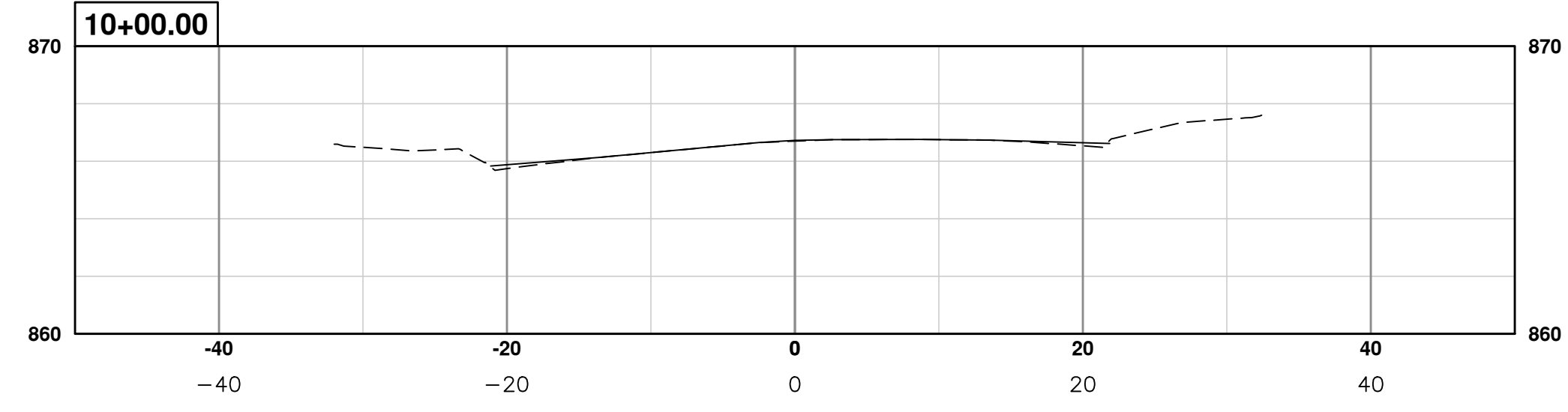
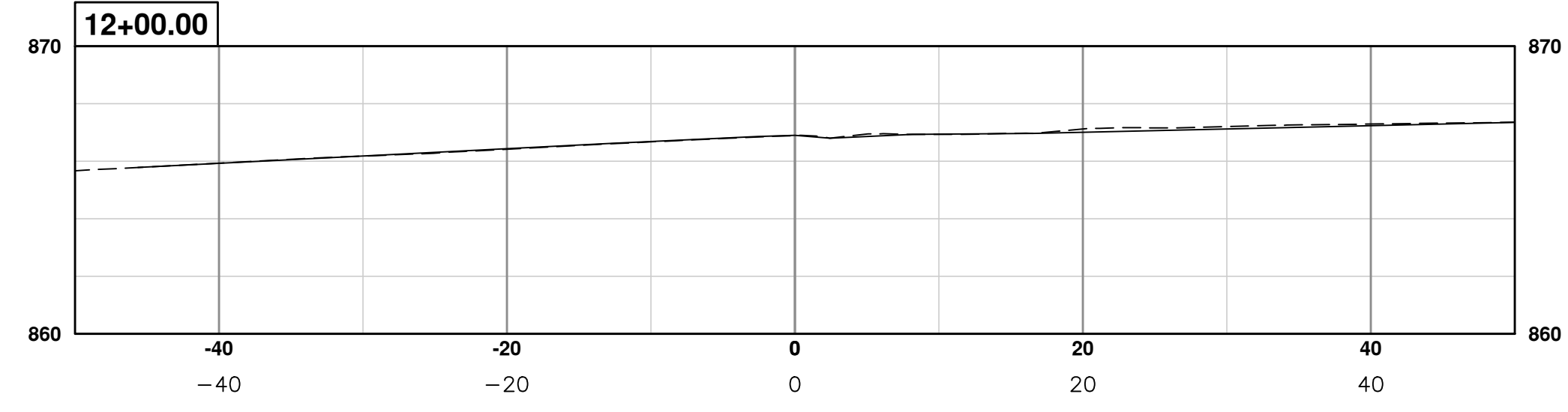
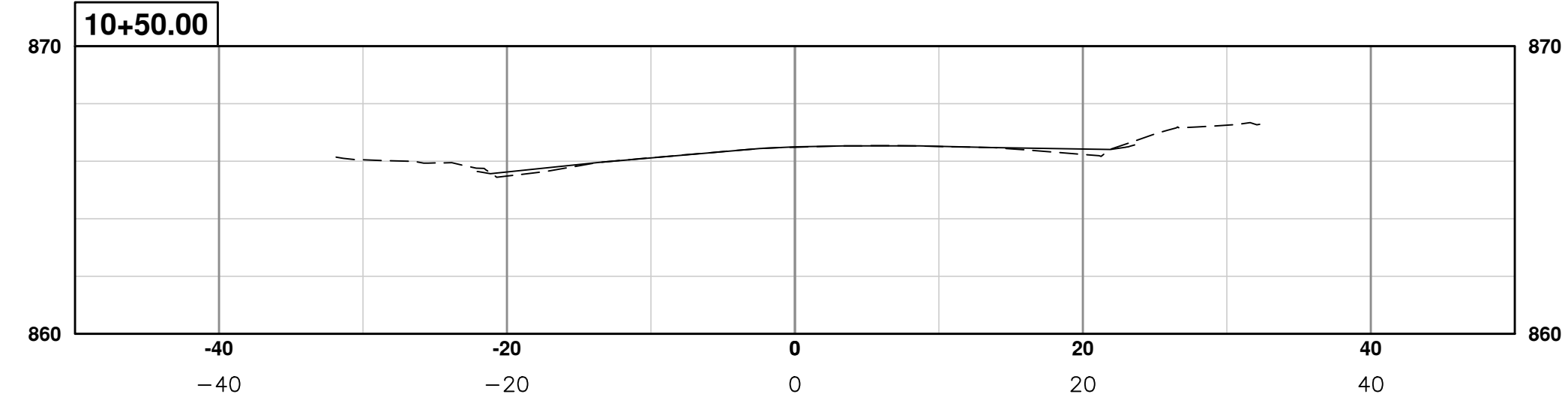
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PUBLIC SERVICES  
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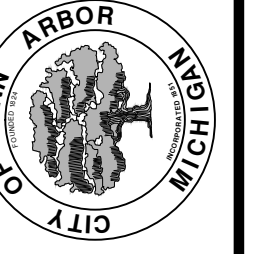
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**S. DIVISION ST. RESURFACING**  
SECTIONS  
SECT 5+75 TO 8+50

SCALE PLAN: ##### PROFILE: 1" = 4'  
DRAWING No. 2015038-24



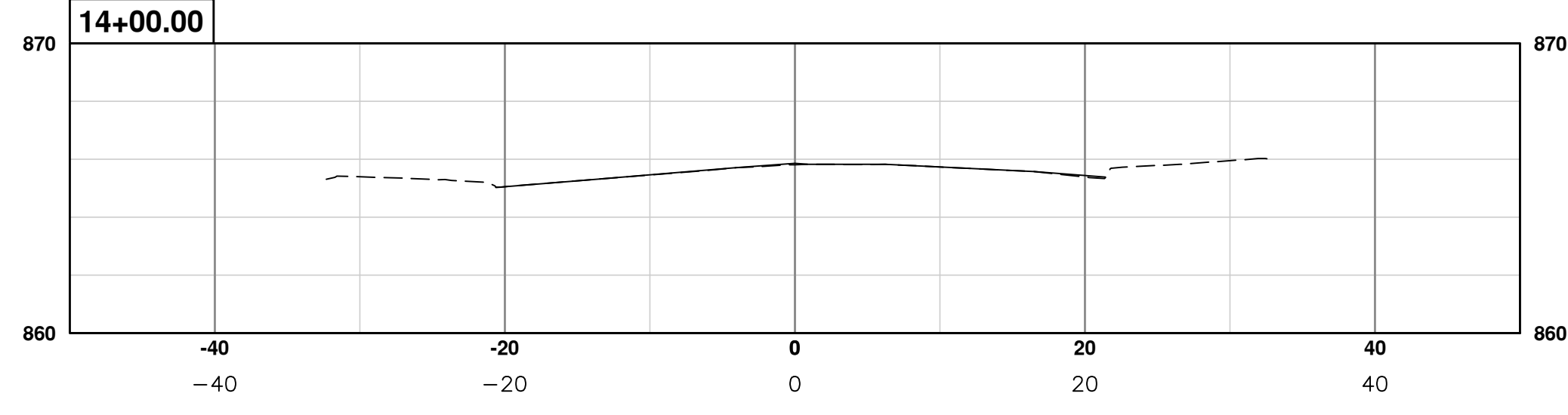
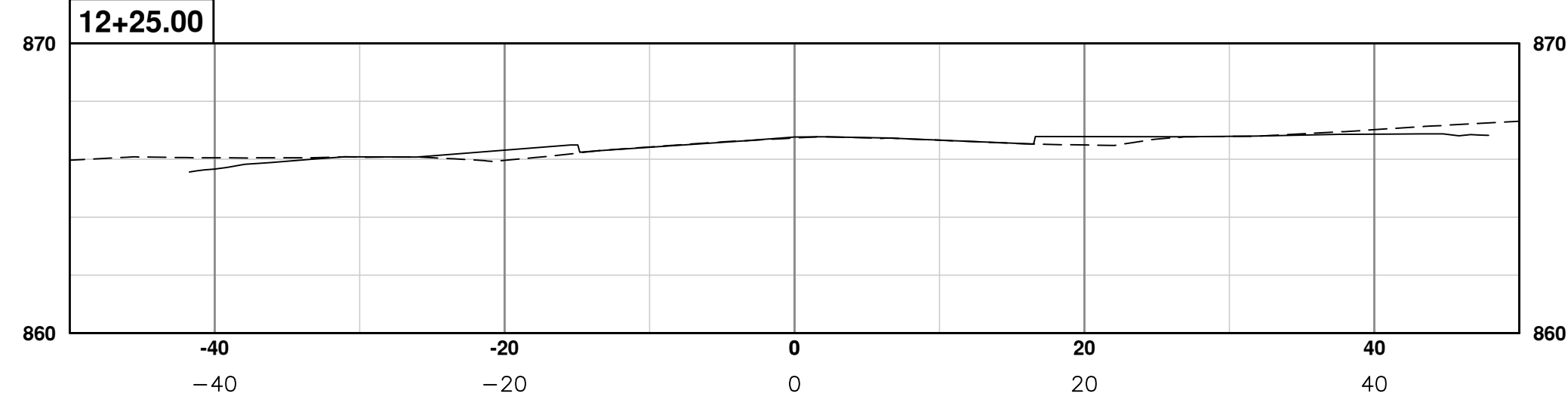
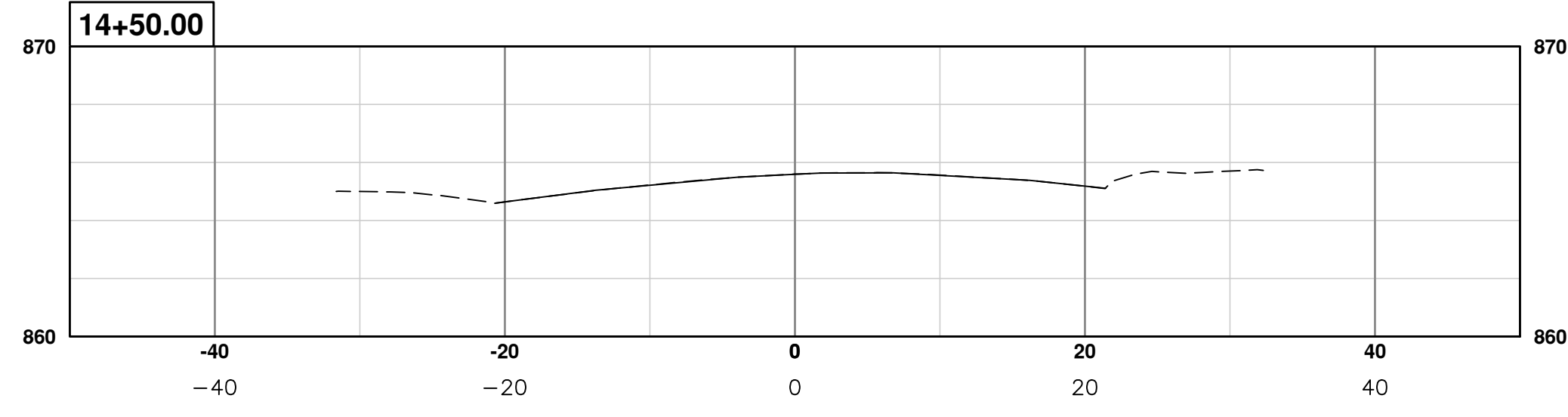
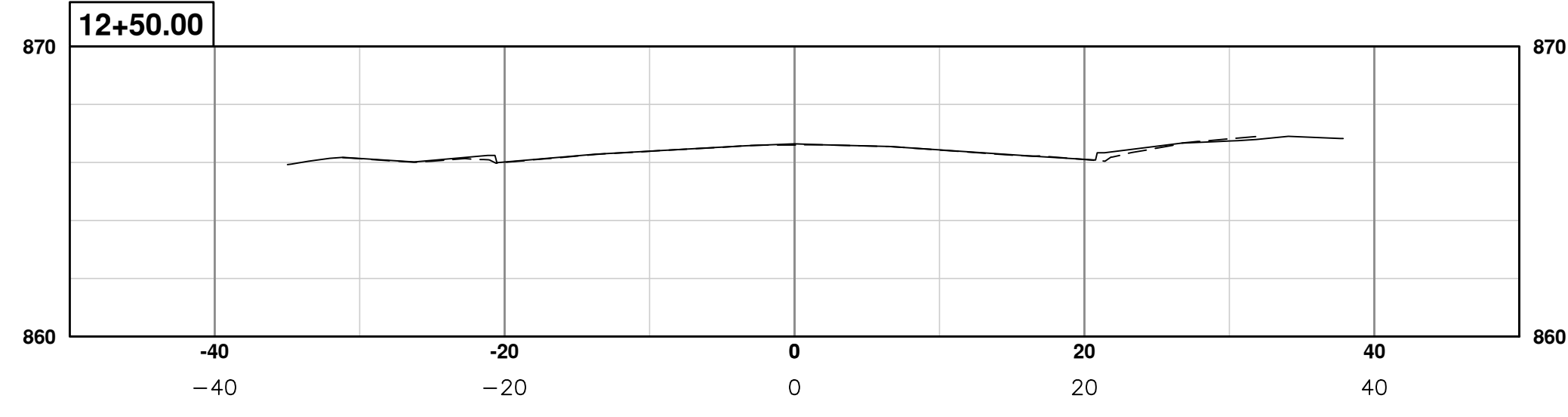
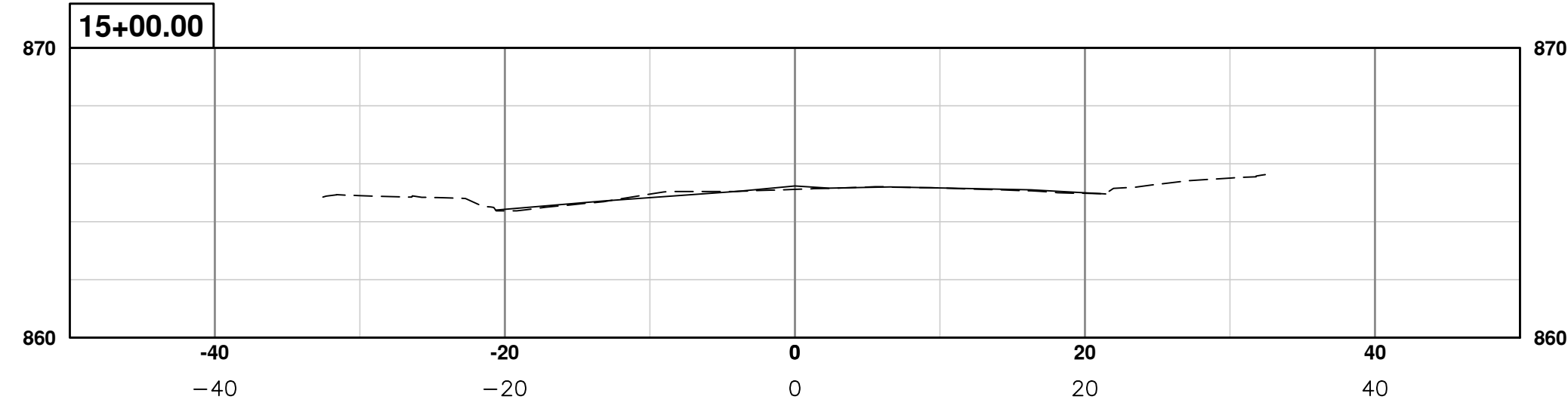
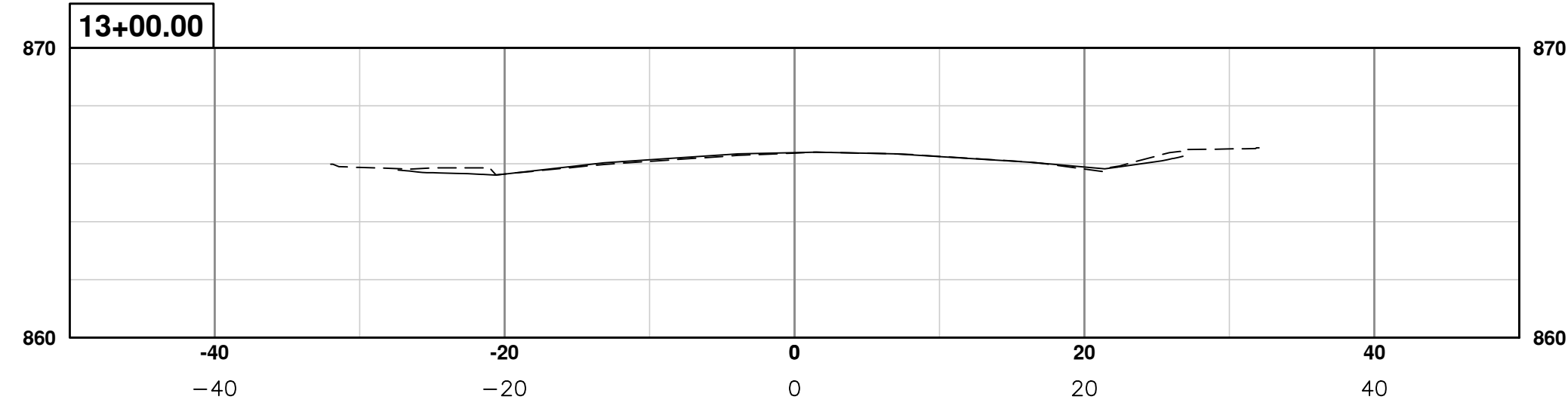
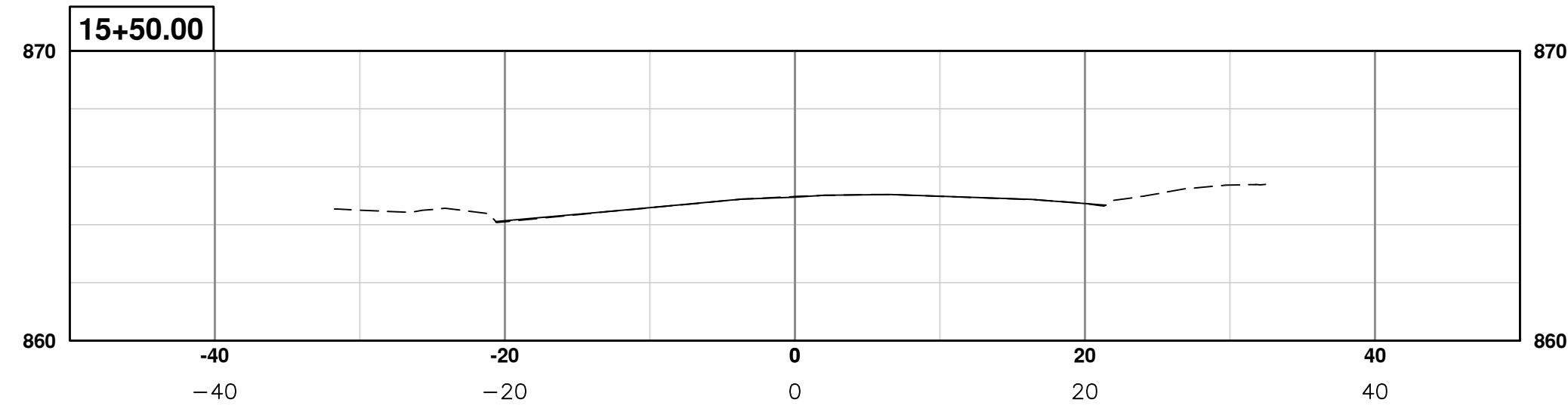
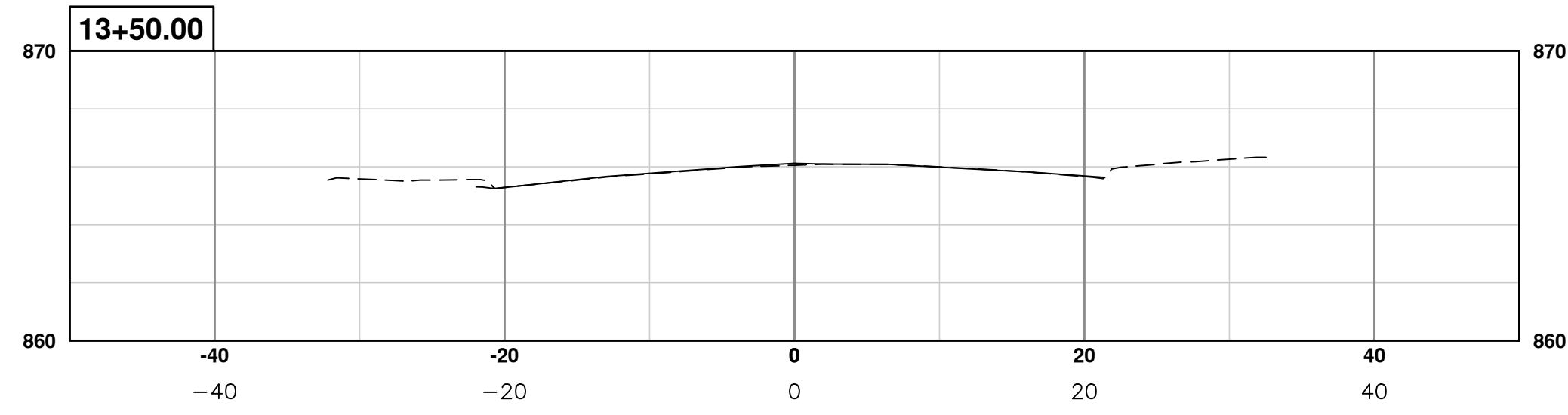
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PUBLIC SERVICES  
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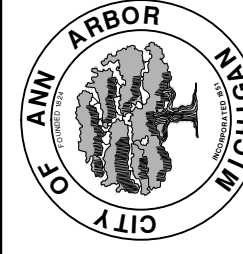


**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**S. DIVISION ST. RESURFACING**  
SECTIONS  
SECT 9+00 TO 12+00

SCALE PLAN: ##### PROFILE: 1" = 4'  
DRAWING No. 2015038-25



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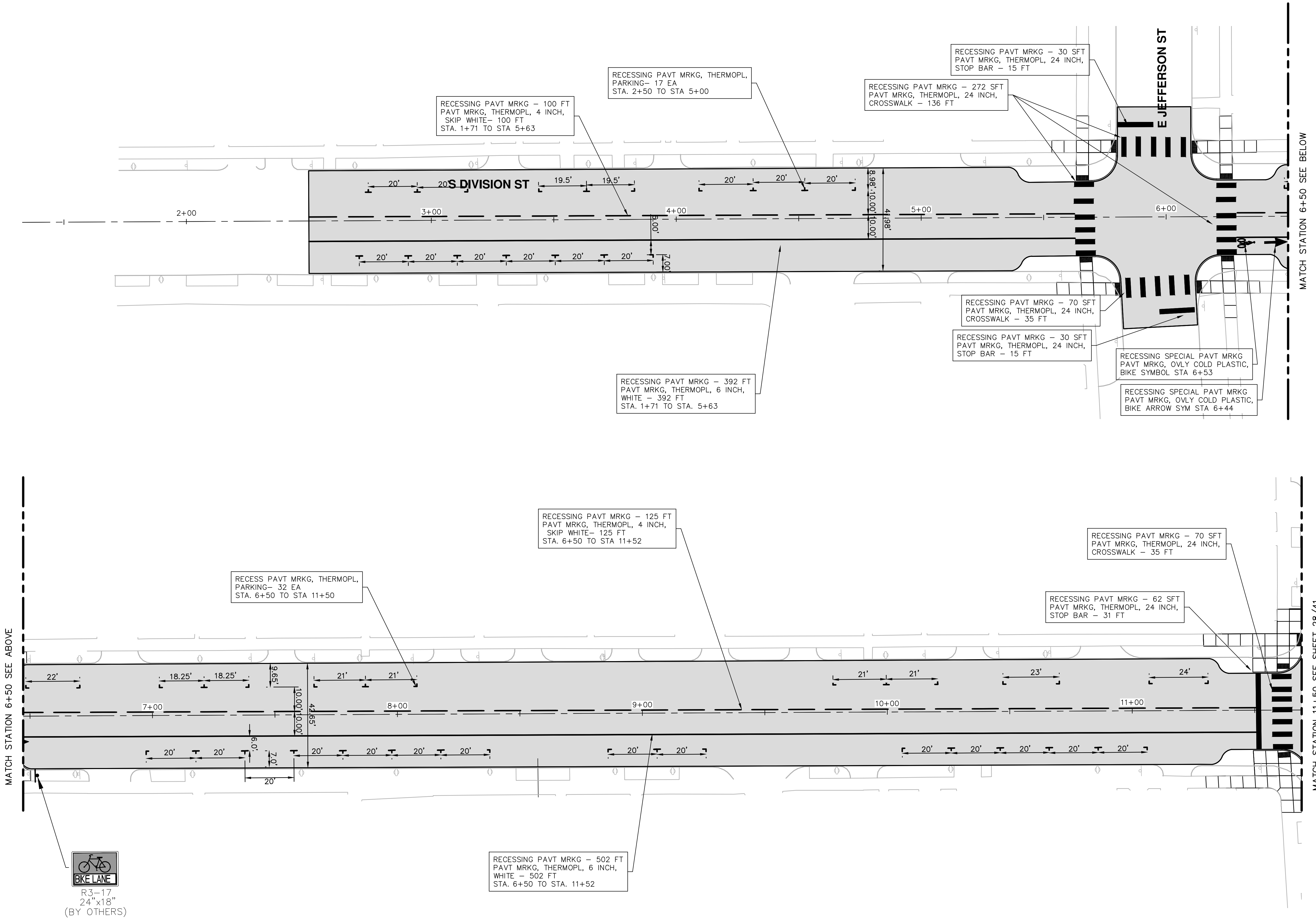


**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**S. DIVISION ST. RESURFACING**  
SECTIONS  
SECT 12+25 TO 15+50

SCALE PLAN: #####  
PROFILE: 1" = 4'  
DRAWING No.  
**2015038-26**

NO	TURN	DATE	BY	CHECKED
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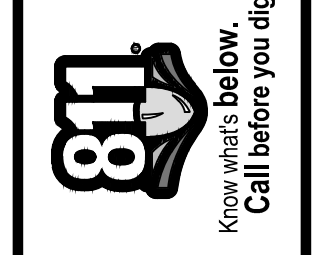
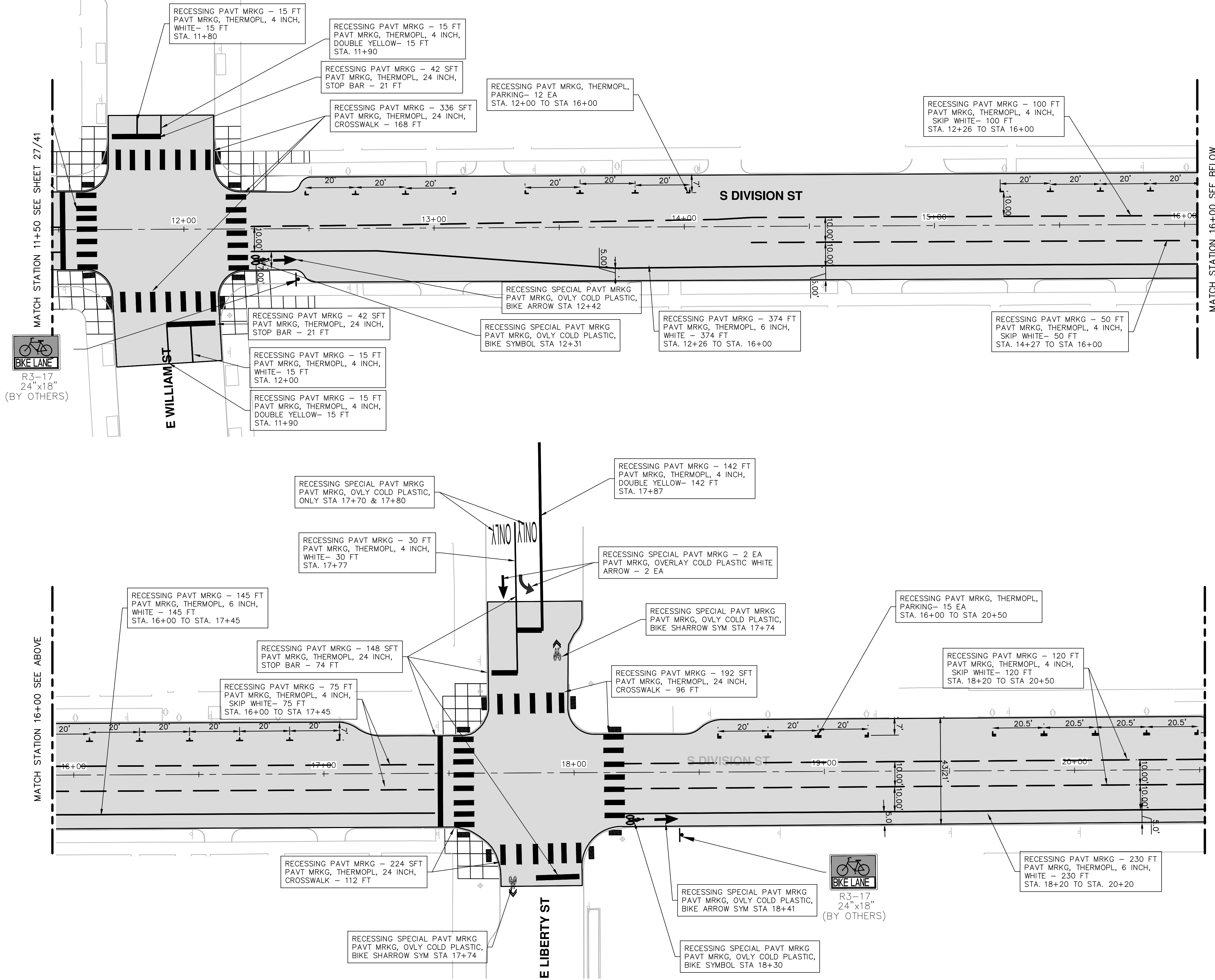
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R3-17  
24"x18"  
(BY OTHERS)

REV.	DESCRIPTION
DATE	DRAWN
CHECKED	
<p>CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR MI 48106-1667 www.a2gov.org</p>	
<p><b>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR</b> <b>S. DIVISION ST. RESURFACING</b> PAVEMENT MARKINGS</p>	
<p>SCALE PLAN: 1" = 20' PROFILE: 1" = 4'</p>	<p>PIARMK POB TO 11+50</p>
<p>DRAWING No. <b>2015038-27</b></p>	<p>SHEET No. <b>27 OF 41</b></p>

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED

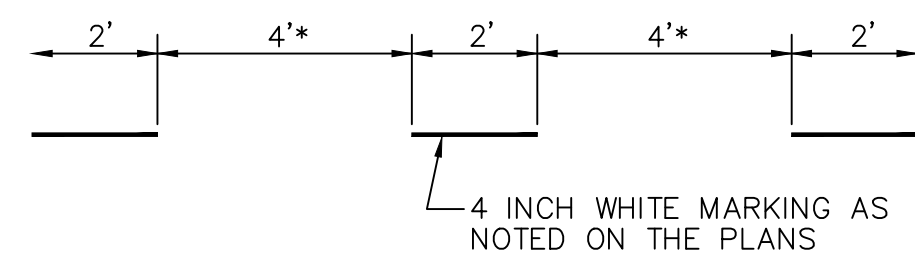
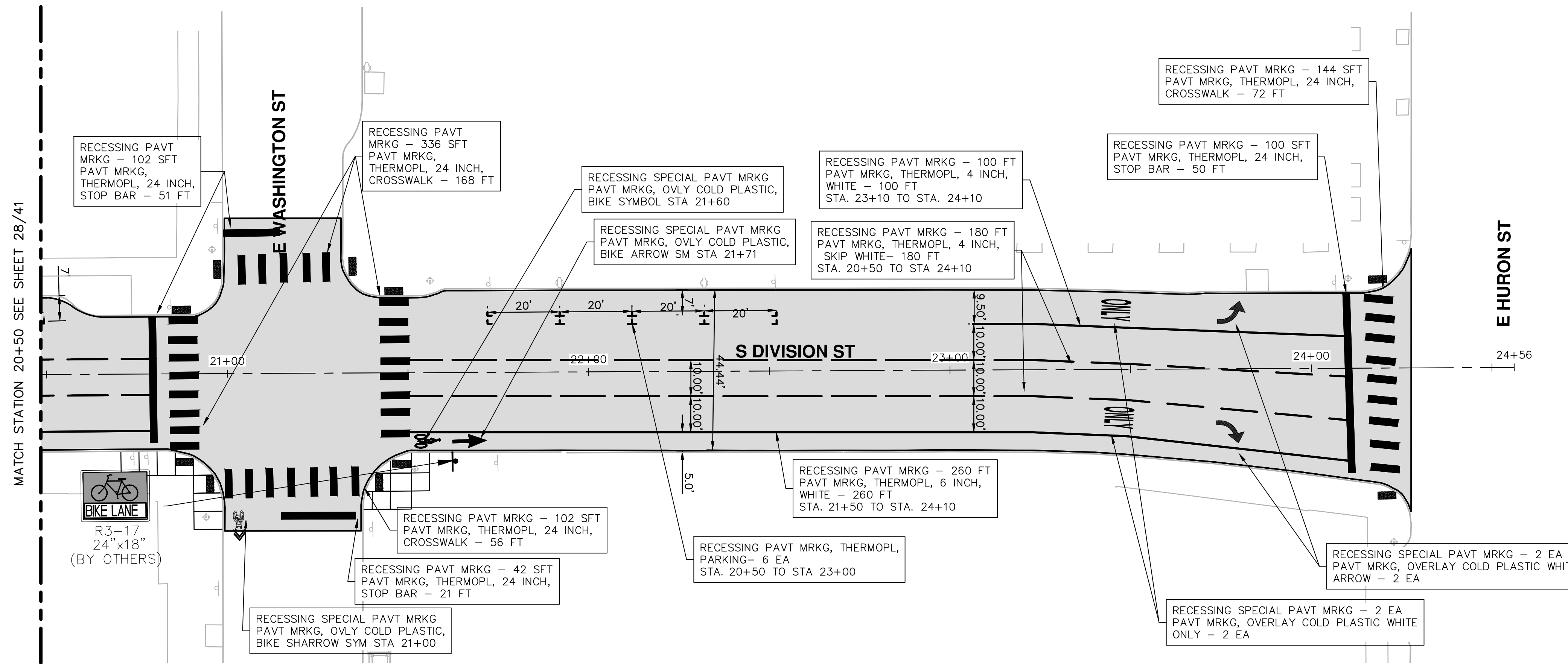
**CITY OF ANN ARBOR**  
**PUBLIC SERVICES**  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-1667  
 ANN ARBOR: 734.754.4110  
 WWW.A2GOV.ORG

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**S. DIVISION ST. RESURFACING**  
 PAVEMENT MARKINGS  
 PMARK 11+50 TO 20+50

SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 4'

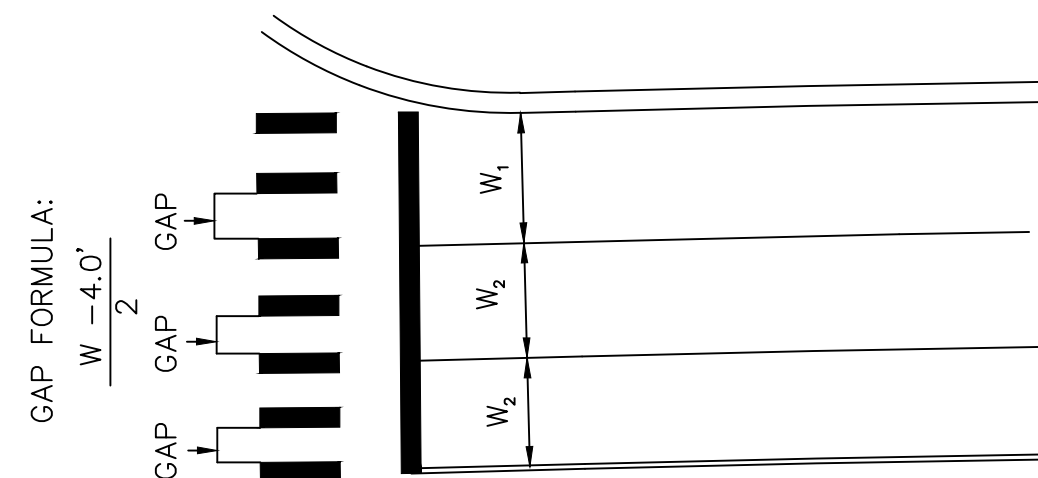
DRAWING No. **2015038-28**  
 SHEET No. **28 OF 41**

S:\Project Management\Design\2015038 Division\Plan Production\2015038 PMARK.dwg Dwg Created: 4-Jan-16 - \_a2\_standard bw.stb - Plot Date: 5-Feb-16



**DOTTED LINE DETAIL**

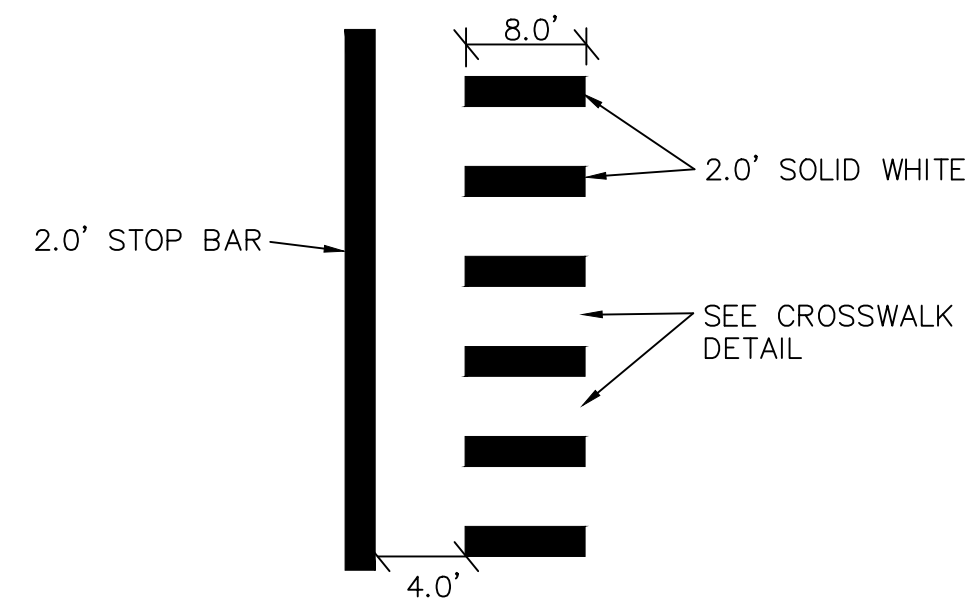
\* NOTE FOR BROKEN LINE, USE 6" GAPS.



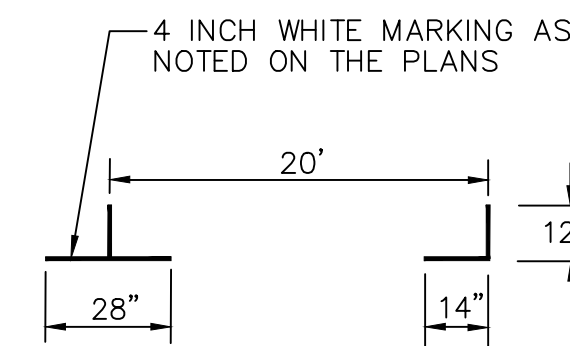
GAP FORMULA:  

$$\frac{W - 4.0'}{2}$$
 ONE BAR CENTERED ON EACH LANE LINE  
 ONE BAR CENTERED BETWEEN EACH LANE LINE  
 GAP ON 12.0' LANE = 4.0'  
 GAP ON 11.0' LANE = 3.5'

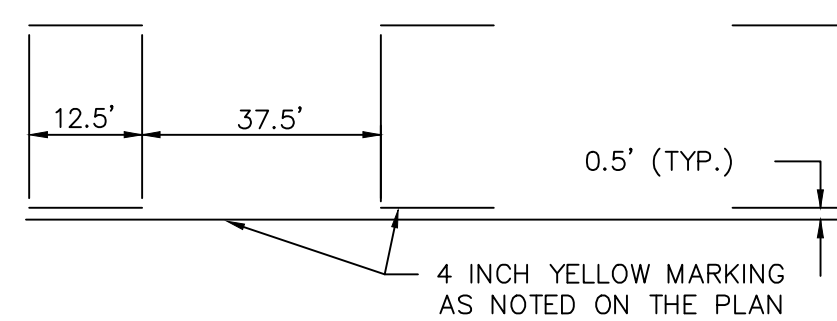
**CROSSWALK DETAIL**



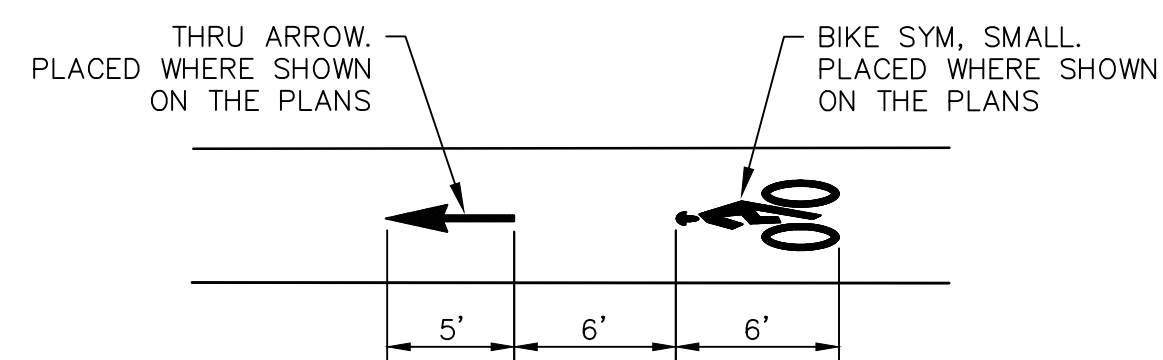
**STOP BAR DETAIL**



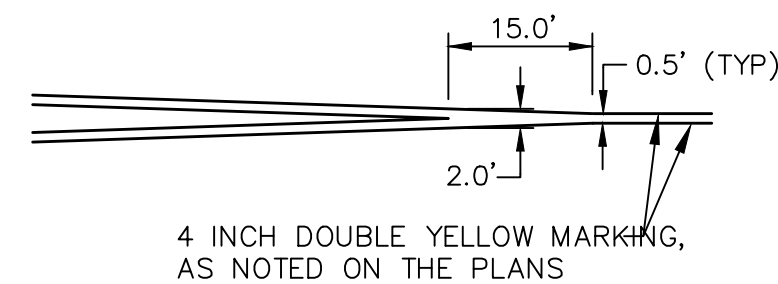
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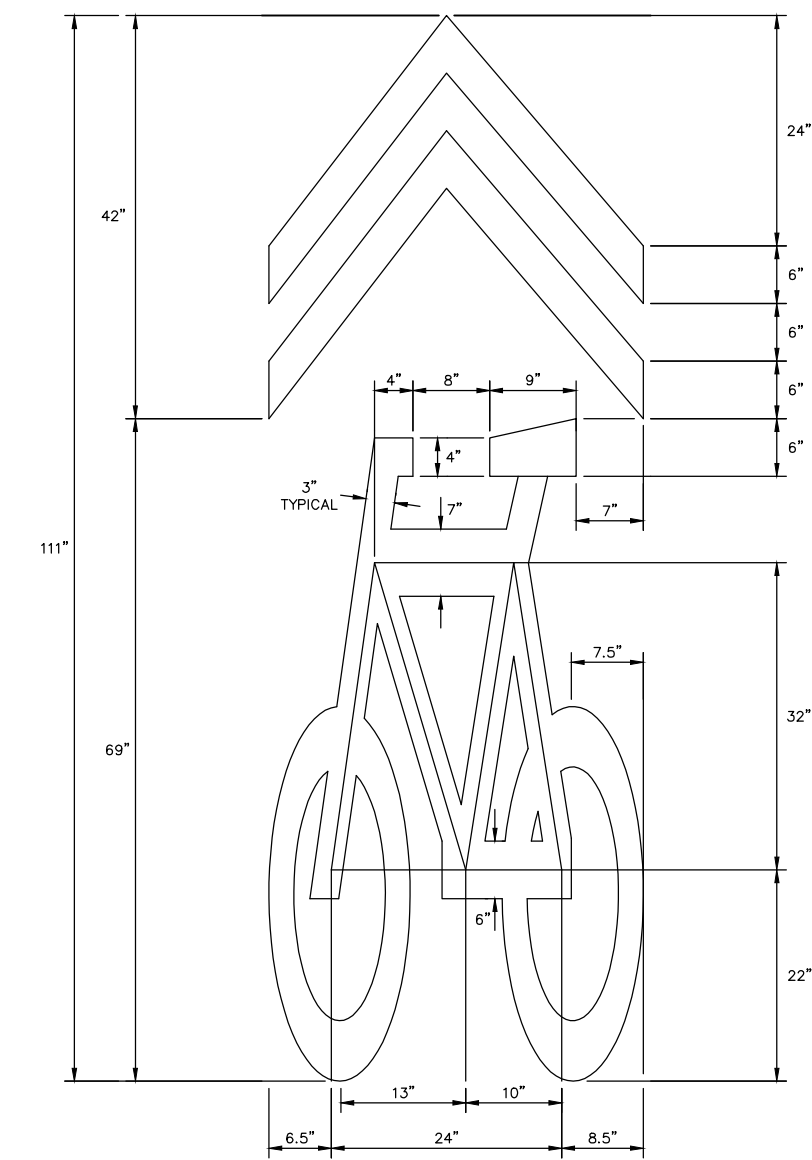
**DASHED SEGMENT DETAIL**



**BIKE SYMBOL DETAIL**



**TYPICAL DOUBLE YELLOW SEPARATION DETAIL**



**SHARROW BIKE SYMBOL DETAIL**



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

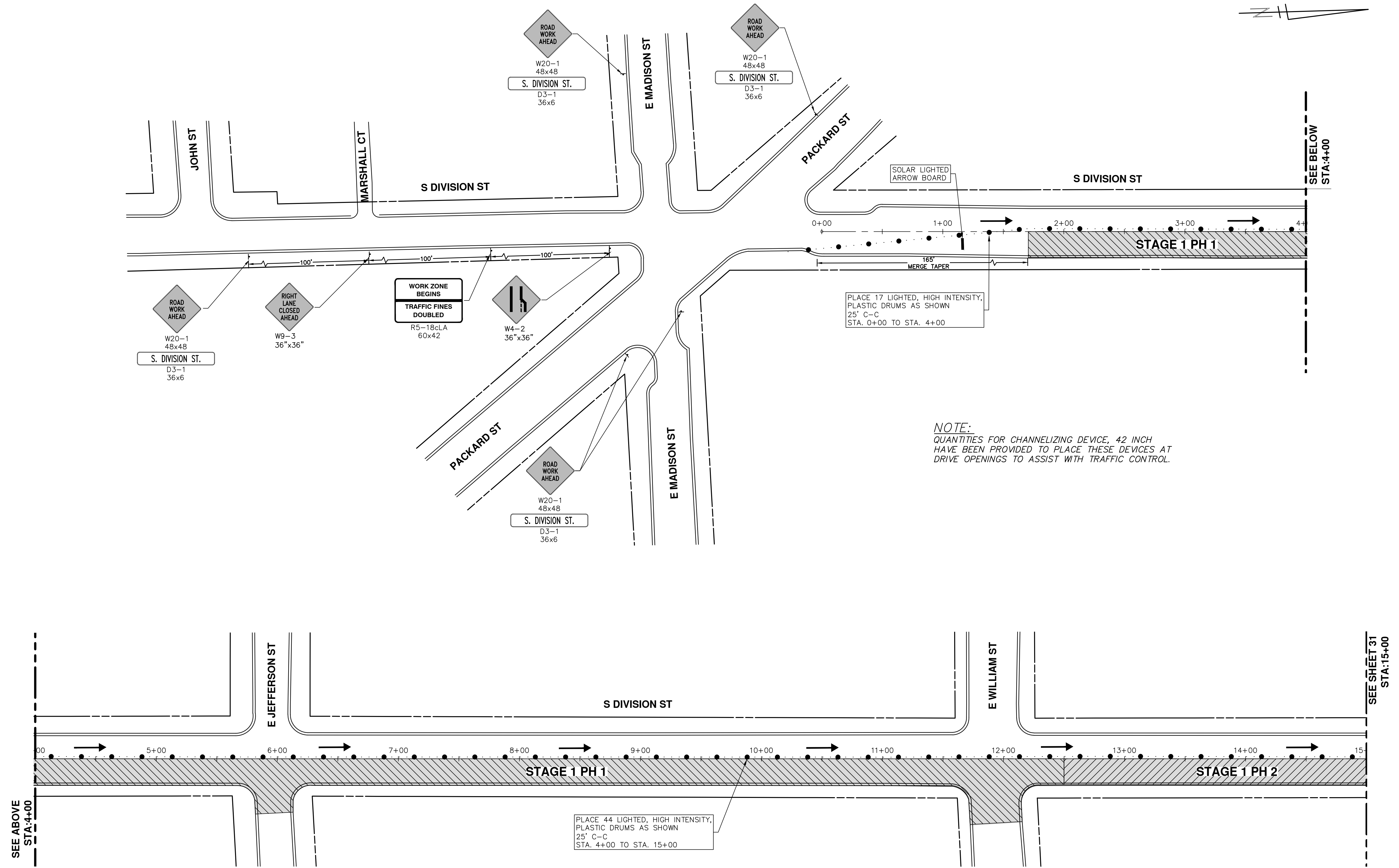
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 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-0667  
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PROJECT MANAGEMENT - CITY OF ANN ARBOR  
 PUBLIC SERVICES - CITY OF ANN ARBOR  
 S. DIVISION ST. RESURFACING  
 PAVEMENT MARKINGS  
 PMARK 20+50 TO POE

SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 4'  
 DRAWING No. 2015038-29

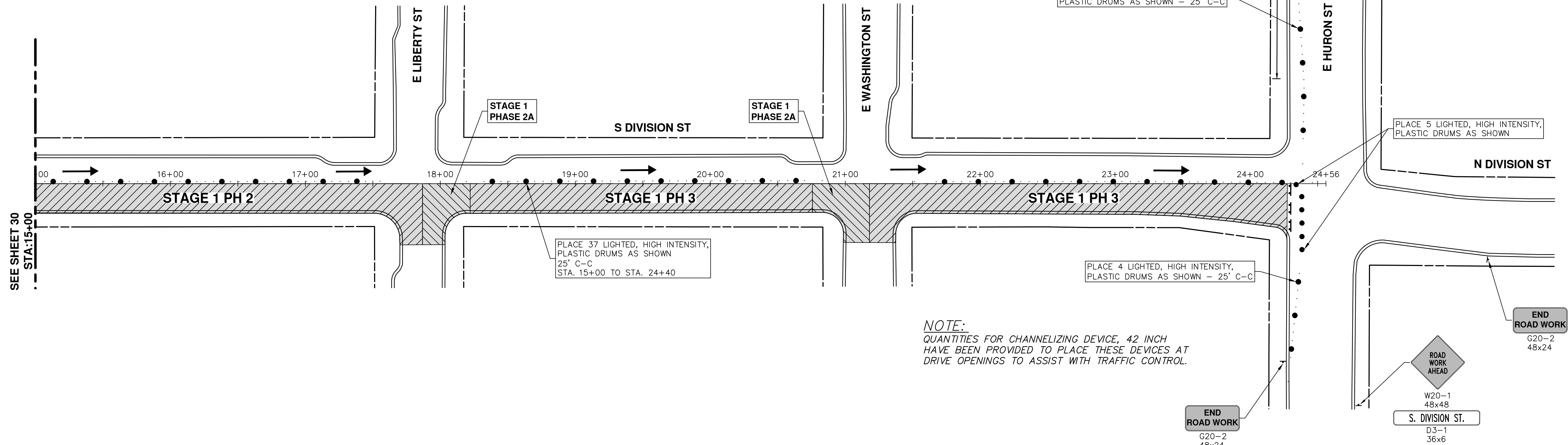
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**STAGING NOTES:**

**STAGE 1**

- PHASE 1
  1. INSTALL TRAFFIC CONTROL DEVICES AND SIGNING
  2. CLOSE DIVISION PART-WIDTH BETWEEN PACKARD AND WILLIAM
  3. CONTACT FIELD SERVICES TO COORDINATE REMOVAL OF THE TRAFFIC "PUCKS" IN ALL OF THE INTERSECTIONS
  4. CONSTRUCT WATER MAIN
  5. CONSTRUCT BUMPOUT AT THE SOUTHEAST QUADRANT OF JEFFERSON/DIVISION AND COMPLETE CURB REPAIRS WITHIN THIS PHASE. CONSTRUCTION OF THE BUMPOUT AT THE NORTHEAST QUADRANT OF WILLIAM/DIVISION CAN BE DONE CONCURRENTLY, BUT DO NOT CLOSE WILLIAM UNTIL WORK IS SET TO BEGIN. ONCE CONSTRUCTION BEGINS IN THIS INTERSECTION, IT MUST BE CONSECUTIVE UNTIL COMPLETE. COMPLETION IS DEFINED AT PLACING HAND PATCHING, HMA LVSP ON THE HMA 3E3 TO RESTORE PEDESTRIAN AND VEHICLE TRAFFIC.
    - IMMEDIATELY UPON COMPLETION OF NORTHEAST QUADRANT OF WILLIAM/DIVISION, BEGIN CONSTRUCTION ON SOUTHEAST QUADRANT OF THIS INTERSECTION. UPON COMPLETION OF THIS BUMPOUT, OPEN WILLIAM STREET TO TWO-WAY TRAFFIC.
  6. UPON PASSING WATER MAIN TESTS, CONSTRUCT WATER SERVICE LEADS PART WIDTH AND RESTORE TRENCHES.
    - BEGIN CONSTRUCTION OF BUMPOUT AT THE NORTHEAST QUADRANT OF JEFFERSON/DIVISION.
- PHASE 2
  1. EXTEND PART-WIDTH CLOSURE OF DIVISION TO LIBERTY
  2. COMPLETE CURB AND SIDEWALK REPLACEMENT
    - DO NOT CLOSE LIBERTY TO ONE WAY TRAFFIC UNTIL CONSTRUCTION OPERATIONS ARE TO BEGIN AT THE SOUTHEAST QUADRANT OF LIBERTY/DIVISION. ONCE OPERATIONS ARE BEGUN, THEY ARE TO BE CONSECUTIVE UNTIL THE INTERSECTION IS COMPLETE THRU THE PLACEMENT OF HAND PATCHING, HMA LVSP.
    - MAINTAIN ONE WAY TRAFFIC ON LIBERTY THRU THE REMAINDER OF THE PROJECT.
- PHASE 3
  1. EXTEND PART-WIDTH CLOSURE OF DIVISION TO WASHINGTON
  2. COMPLETE CURB AND SIDEWALK REPLACEMENT
    - DO NOT CLOSE WASHINGTON TO ONE WAY TRAFFIC UNTIL CONSTRUCTION OPERATIONS ARE TO BEGIN AT THE SOUTHEAST QUADRANT OF WASHINGTON/DIVISION. ONCE OPERATIONS ARE BEGUN, THEY ARE TO BE CONSECUTIVE UNTIL THE INTERSECTION IS COMPLETE THRU THE PLACEMENT OF HAND PATCHING, HMA LVSP.
    - MAINTAIN ONE WAY TRAFFIC ON LIBERTY THRU THE REMAINDER OF THE PROJECT.
- PHASE 4
  1. EXTEND PART-WIDTH CLOSURE OF DIVISION TO EAST HURON
  2. LOWER STRUCTURES IF NOT COMPLETED DURING PREVIOUS PHASES
  3. PLACE SIGNS AND TRAFFIC CONTROL DEVICES TO CLOSE SOUTH LANE OF EAST HURON
  4. MILL HMA PART-WIDTH 4" DEEP FROM POB TO EAST HURON (POE)
  5. COMPLETE ANY DETAIL 7 AND 8 JOINT REPAIRS NECESSARY
  6. PLACE HMA LEVELING
  7. RAISE ALL STRUCTURES
  8. INSTALL GEOSYNTHETIC PAVING LAYER
  9. PLACE HMA TOP COURSE
  10. REMOVE LANE CLOSURE FROM EAST HURON
  11. INSTALL TEMPORARY STOP BARS



**NOTE:**  
 QUANTITIES FOR CHANNELIZING DEVICE, 42 INCH  
 HAVE BEEN PROVIDED TO PLACE THESE DEVICES AT  
 DRIVE OPENINGS TO ASSIST WITH TRAFFIC CONTROL.

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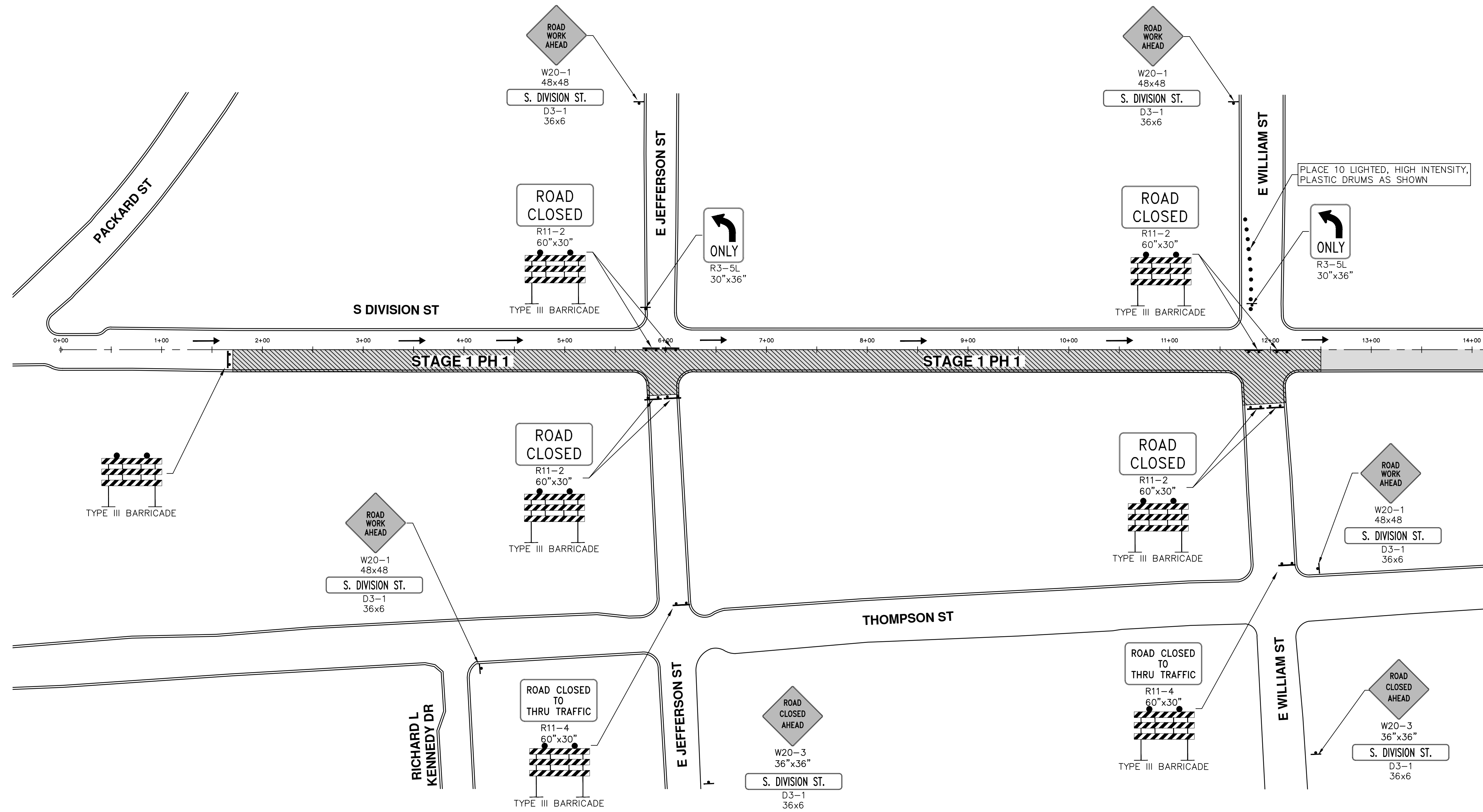
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**S. DIVISION ST. RESURFACING**  
 MAINTENANCE OF TRAFFIC

SCALE PLAN: 1" = 40'  
 DRAWING No. **2015038-31**

SHEET No. **31 OF 41**

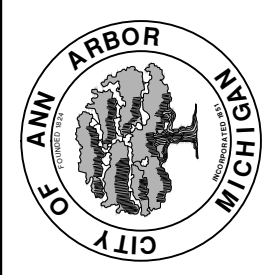


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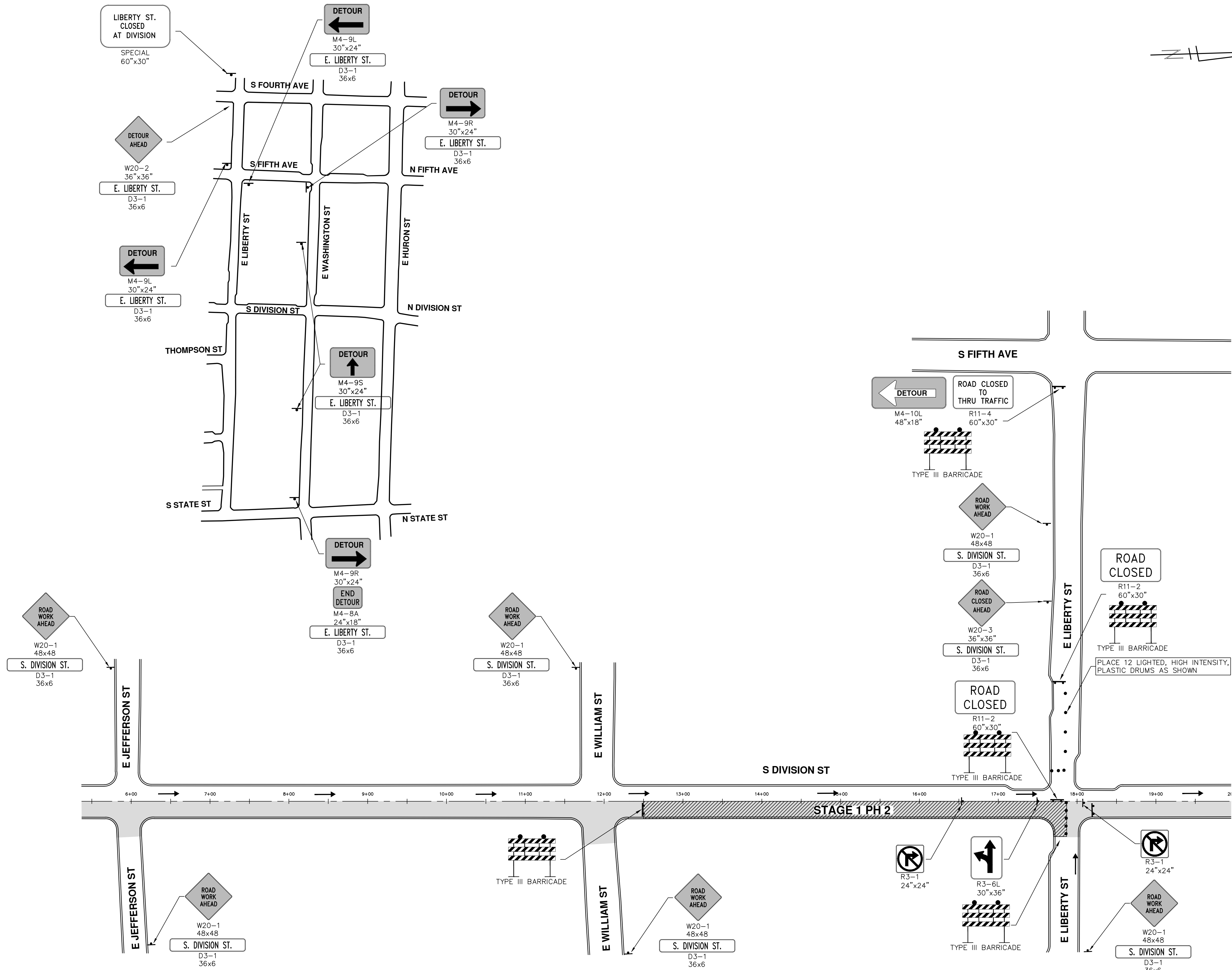
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MAINTENANCE OF TRAFFIC  
STAGE 1 PHASE 1

SCALE PLAN: 1" = 60'  
DRAWING No. 20150338-32

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**S. DIVISION ST. RESURFACING**  
 MAINTENANCE OF TRAFFIC  
 STAGE 1 PHASE 2

SCALE PLAN: 1" = 60'  
 DRAWING No. 20150338-33  
 SHEET No. 33 OF 41

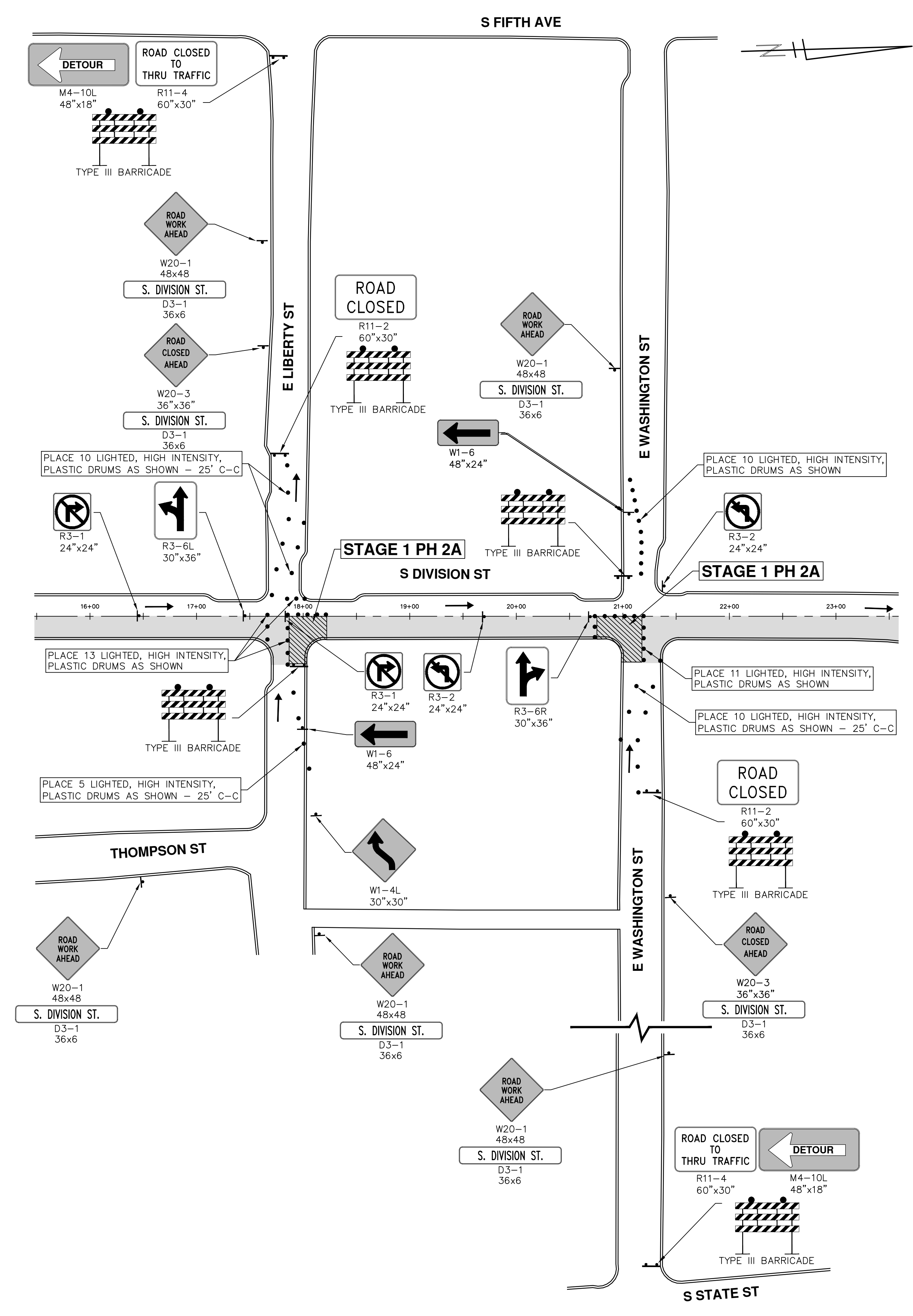
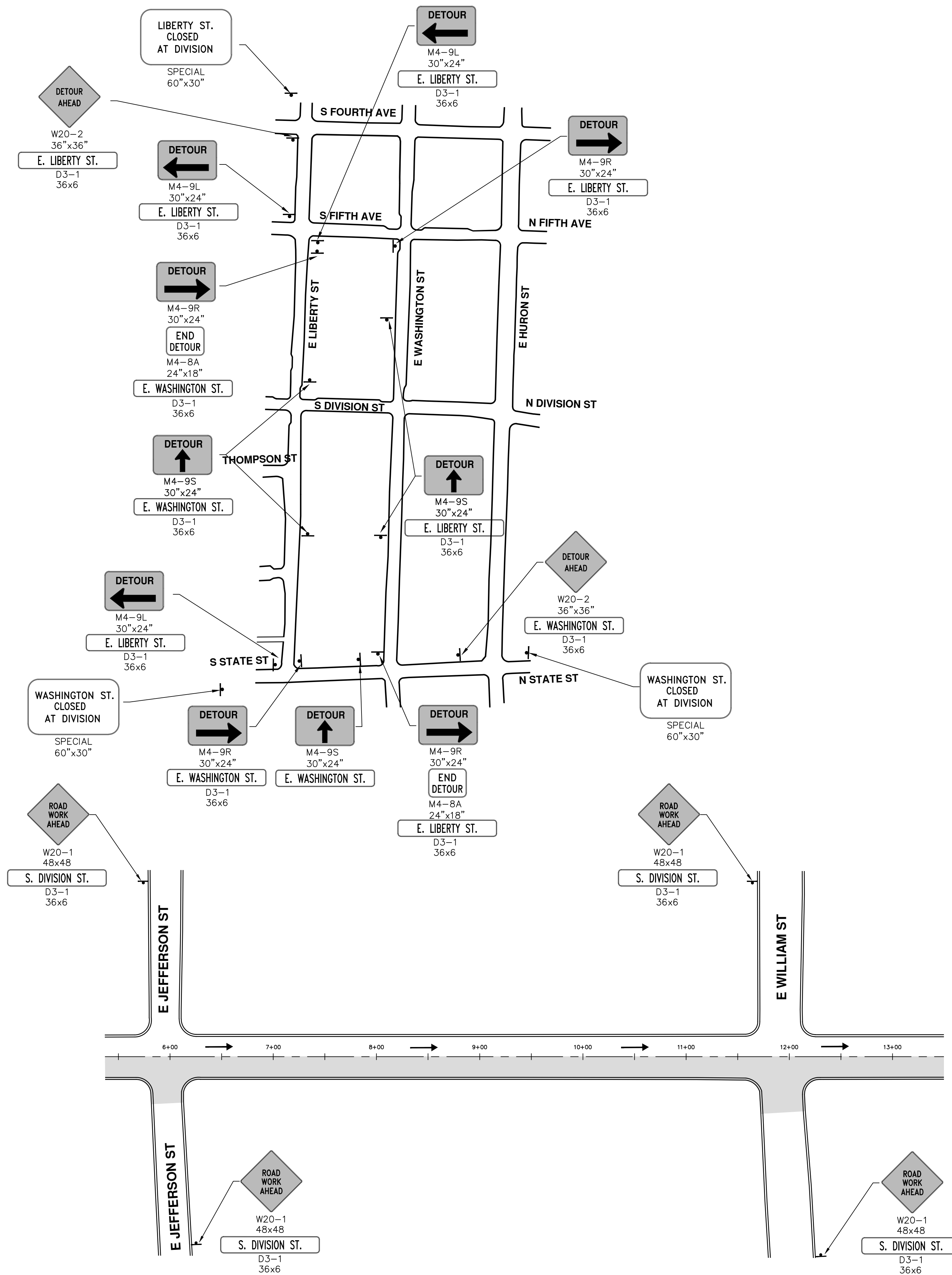
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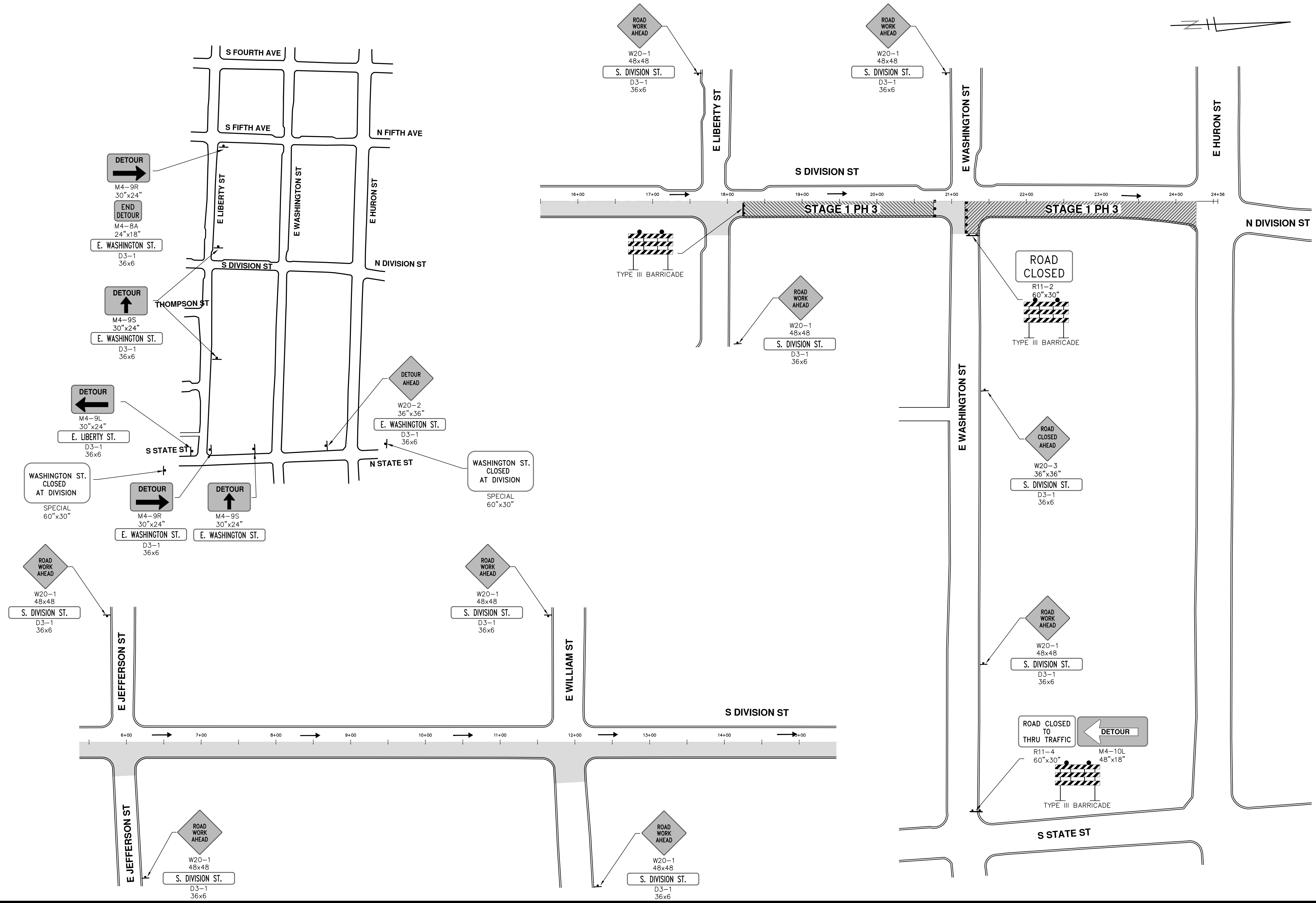
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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**S. DIVISION ST. RESURFACING**  
MAINTENANCE OF TRAFFIC

STAGE 1 PHASE 2A

SCALE PLAN: 1" = 60'  
DRAWING No. 20150338-34  
SHEET No. 34 OF 41

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**S. DIVISION ST. RESURFACING**  
 MAINTENANCE OF TRAFFIC  
 STAGE 1 PHASE 3

SCALE PLAN: 1" = 60'  
 DRAWING No. 20150338-35

SHEET No. 35 OF 41

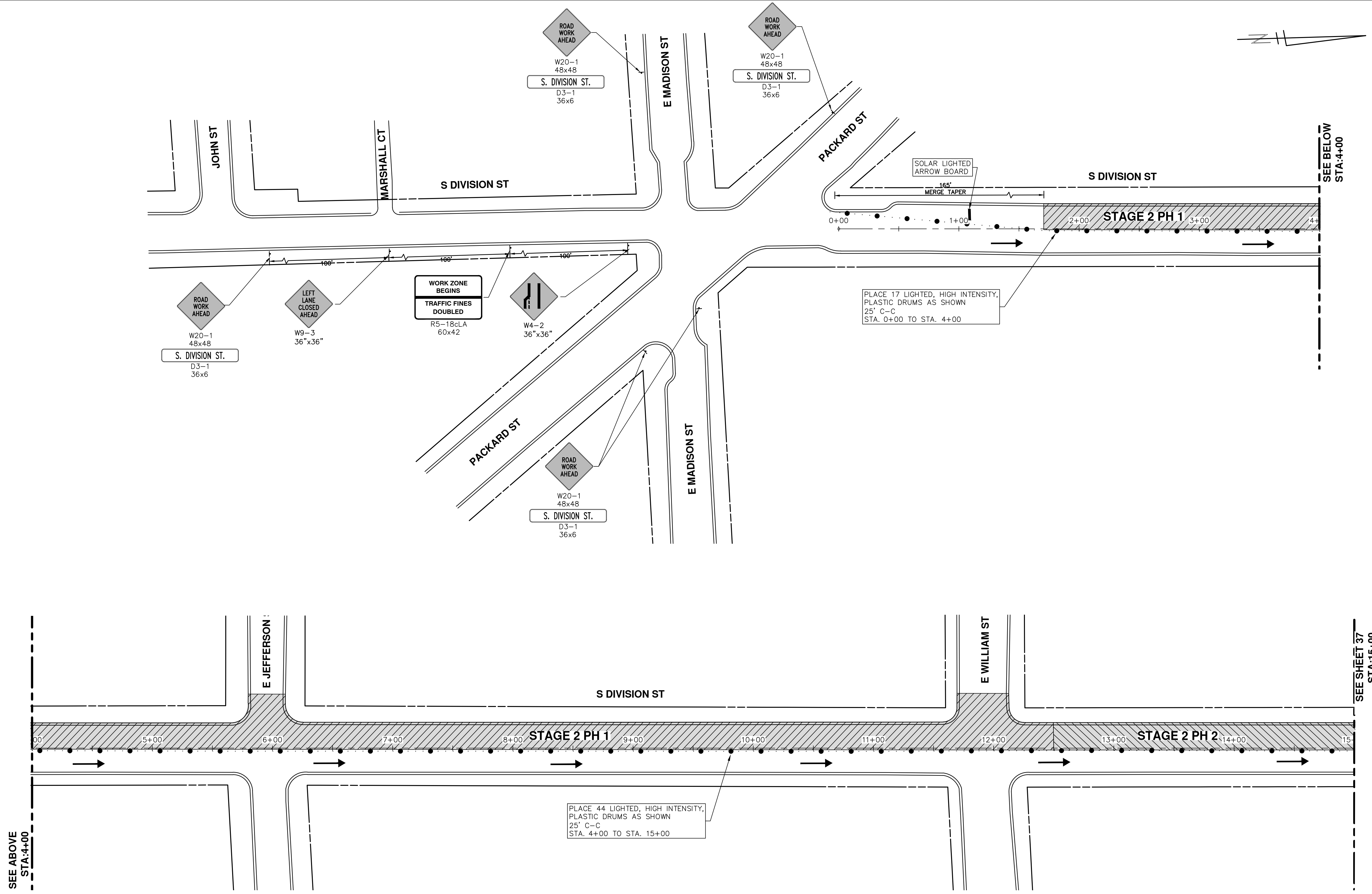
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**S. DIVISION ST. RESURFACING**

MAINTENANCE OF TRAFFIC

STAGE 2

SCALE PLAN: 1" = 40'

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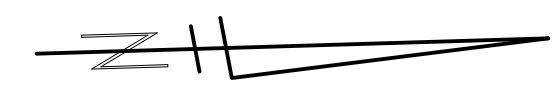
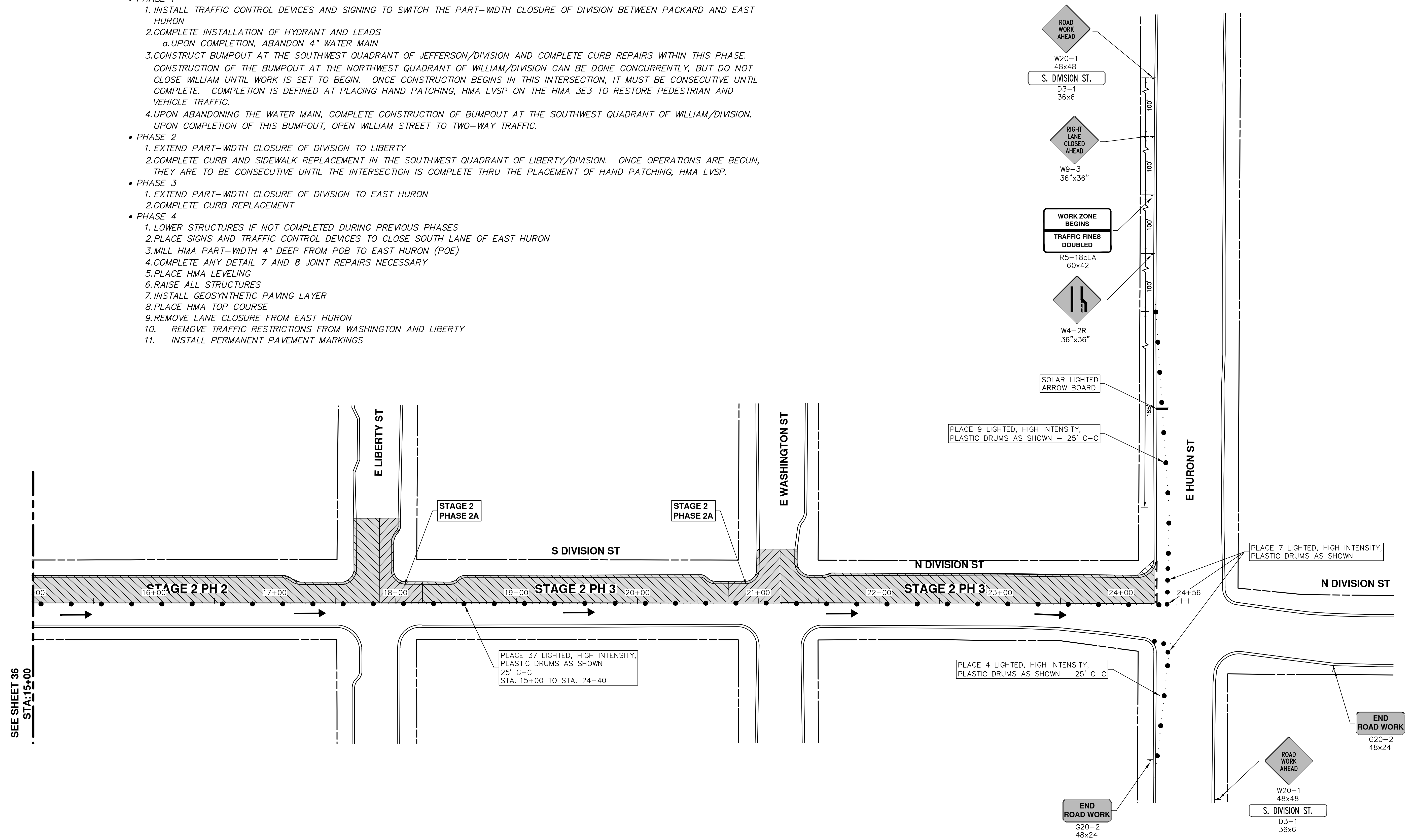
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SHEET No. 36 OF 41

STAGING NOTES:

STAGE II

- PHASE 1
  1. INSTALL TRAFFIC CONTROL DEVICES AND SIGNING TO SWITCH THE PART-WIDTH CLOSURE OF DIVISION BETWEEN PACKARD AND EAST HURON
  2. COMPLETE INSTALLATION OF HYDRANT AND LEADS
    - a. UPON COMPLETION, ABANDON 4" WATER MAIN
  3. CONSTRUCT BUMPOUT AT THE SOUTHWEST QUADRANT OF JEFFERSON/DIVISION AND COMPLETE CURB REPAIRS WITHIN THIS PHASE. CONSTRUCTION OF THE BUMPOUT AT THE NORTHWEST QUADRANT OF WILLIAM/DIVISION CAN BE DONE CONCURRENTLY, BUT DO NOT CLOSE WILLIAM UNTIL WORK IS SET TO BEGIN. ONCE CONSTRUCTION BEGINS IN THIS INTERSECTION, IT MUST BE CONSECUTIVE UNTIL COMPLETE. COMPLETION IS DEFINED AT PLACING HAND PATCHING, HMA LVSP ON THE HMA 3E3 TO RESTORE PEDESTRIAN AND VEHICLE TRAFFIC.
  4. UPON ABANDONING THE WATER MAIN, COMPLETE CONSTRUCTION OF BUMPOUT AT THE SOUTHWEST QUADRANT OF WILLIAM/DIVISION. UPON COMPLETION OF THIS BUMPOUT, OPEN WILLIAM STREET TO TWO-WAY TRAFFIC.
- PHASE 2
  1. EXTEND PART-WIDTH CLOSURE OF DIVISION TO LIBERTY
  2. COMPLETE CURB AND SIDEWALK REPLACEMENT IN THE SOUTHWEST QUADRANT OF LIBERTY/DIVISION. ONCE OPERATIONS ARE BEGUN, THEY ARE TO BE CONSECUTIVE UNTIL THE INTERSECTION IS COMPLETE THRU THE PLACEMENT OF HAND PATCHING, HMA LVSP.
- PHASE 3
  1. EXTEND PART-WIDTH CLOSURE OF DIVISION TO EAST HURON
  2. COMPLETE CURB REPLACEMENT
- PHASE 4
  1. LOWER STRUCTURES IF NOT COMPLETED DURING PREVIOUS PHASES
  2. PLACE SIGNS AND TRAFFIC CONTROL DEVICES TO CLOSE SOUTH LANE OF EAST HURON
  3. MILL HMA PART-WIDTH 4" DEEP FROM POB TO EAST HURON (POE)
  4. COMPLETE ANY DETAIL 7 AND 8 JOINT REPAIRS NECESSARY
  5. PLACE HMA LEVELING
  6. RAISE ALL STRUCTURES
  7. INSTALL GEOSYNTHETIC PAVING LAYER
  8. PLACE HMA TOP COURSE
  9. REMOVE LANE CLOSURE FROM EAST HURON
  10. REMOVE TRAFFIC RESTRICTIONS FROM WASHINGTON AND LIBERTY
  11. INSTALL PERMANENT PAVEMENT MARKINGS






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	FINAL SUBMITTAL	PROJECT MANAGER REVIEW	SOIL BORING LOCATION SHEET	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
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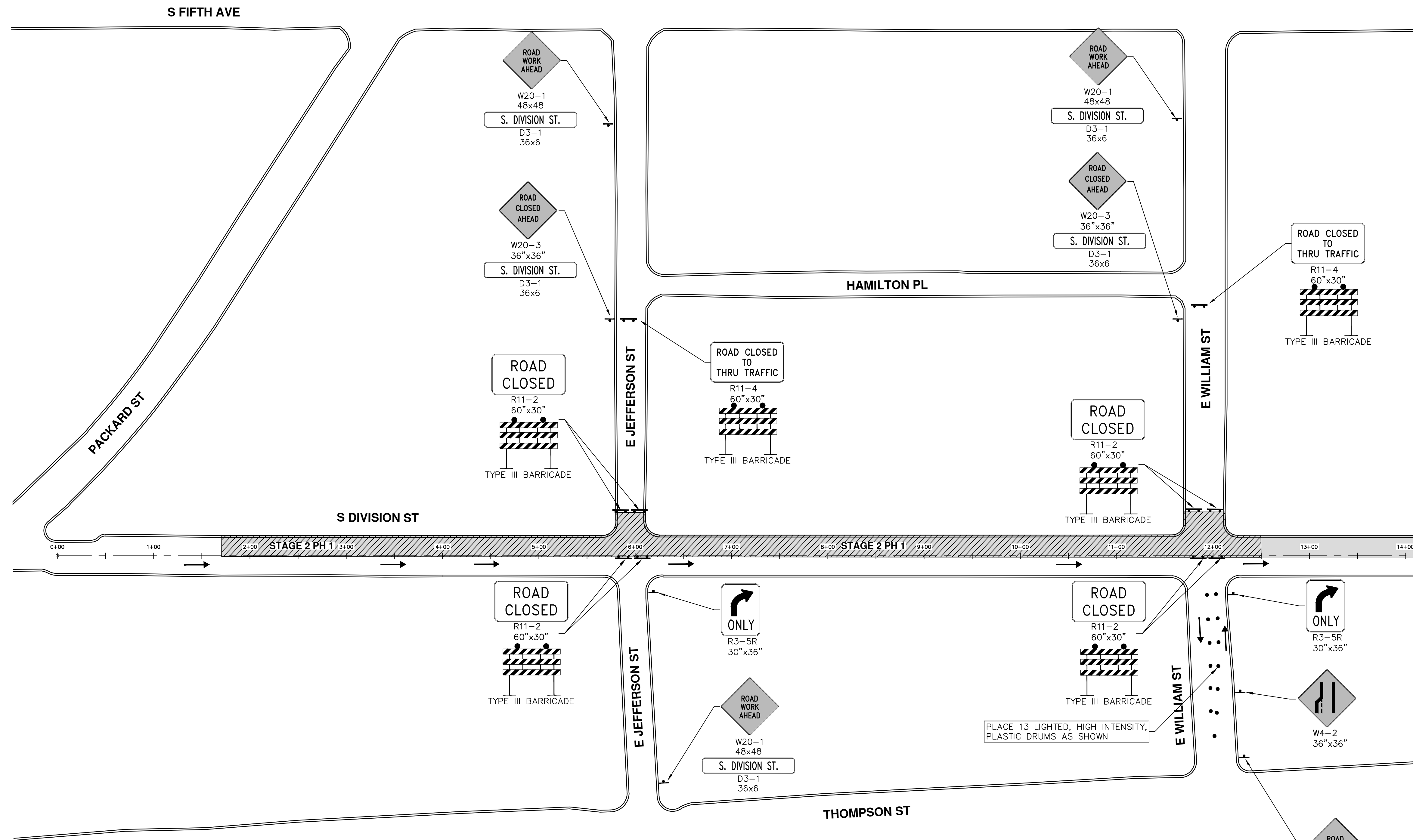
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 S. DIVISION ST. RESURFACING  
 MAINTENANCE OF TRAFFIC  
 STAGE 2

SCALE PLAN: 1" = 40'  
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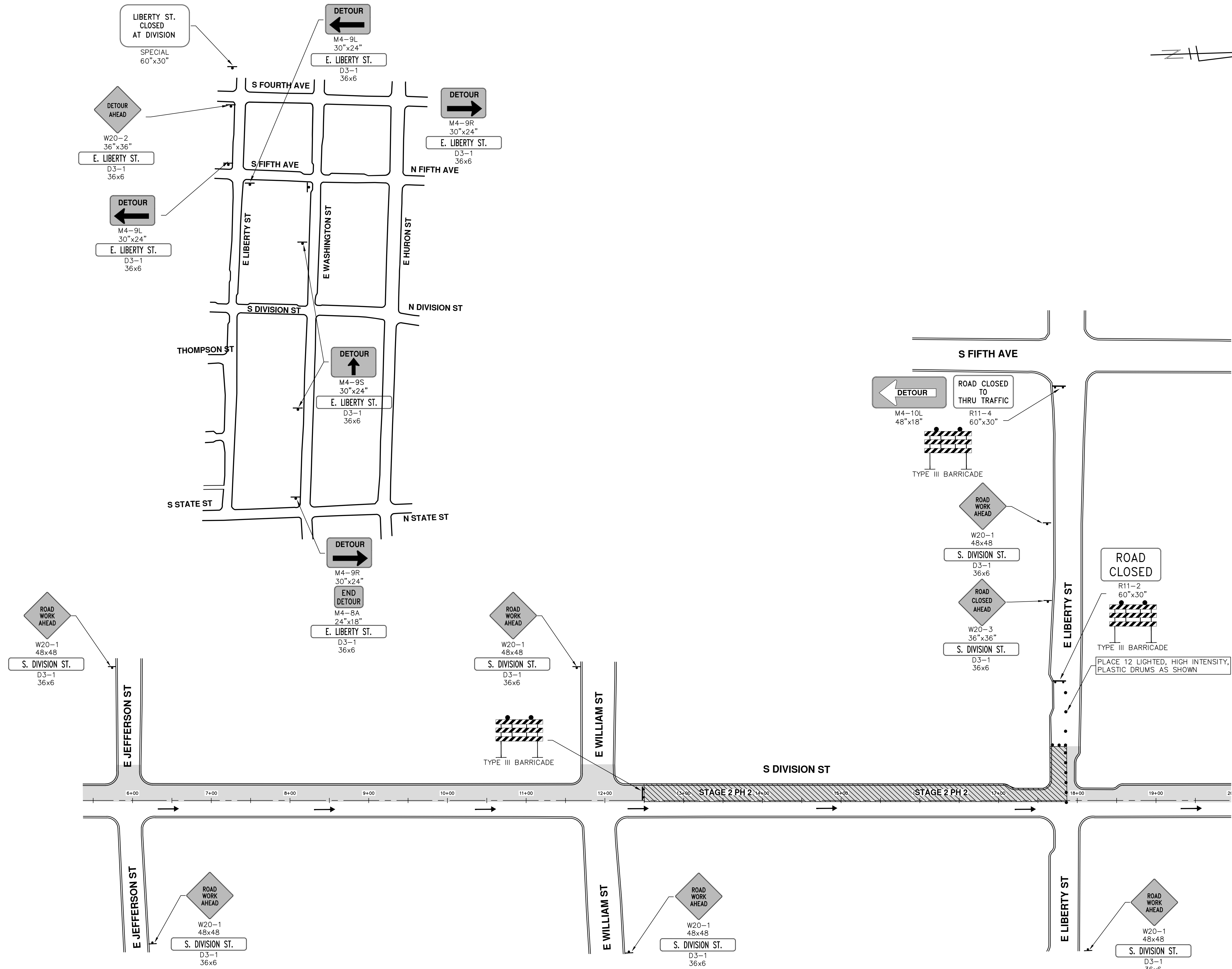
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MAINTENANCE OF TRAFFIC  
STAGE 2 PHASE 1

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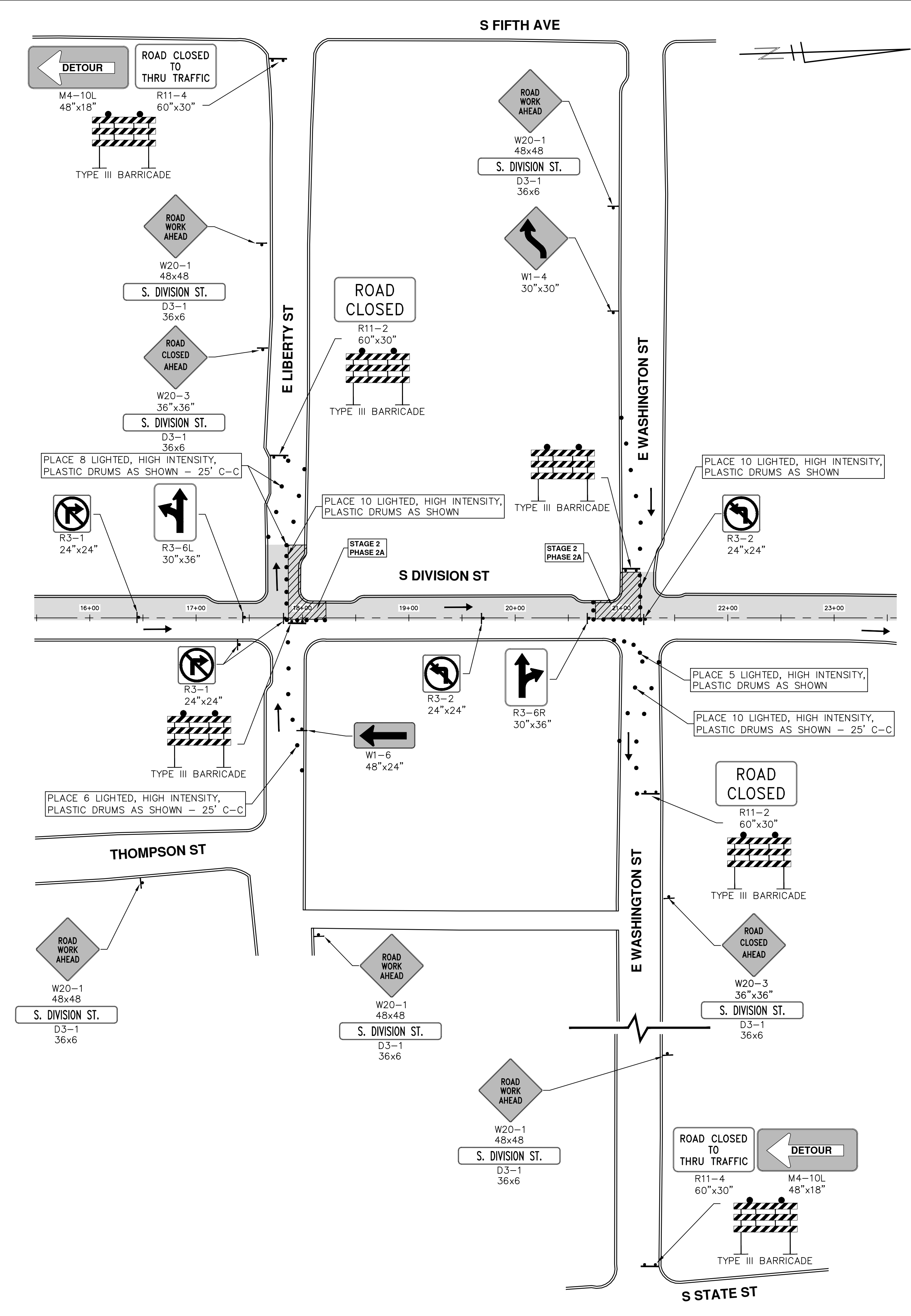
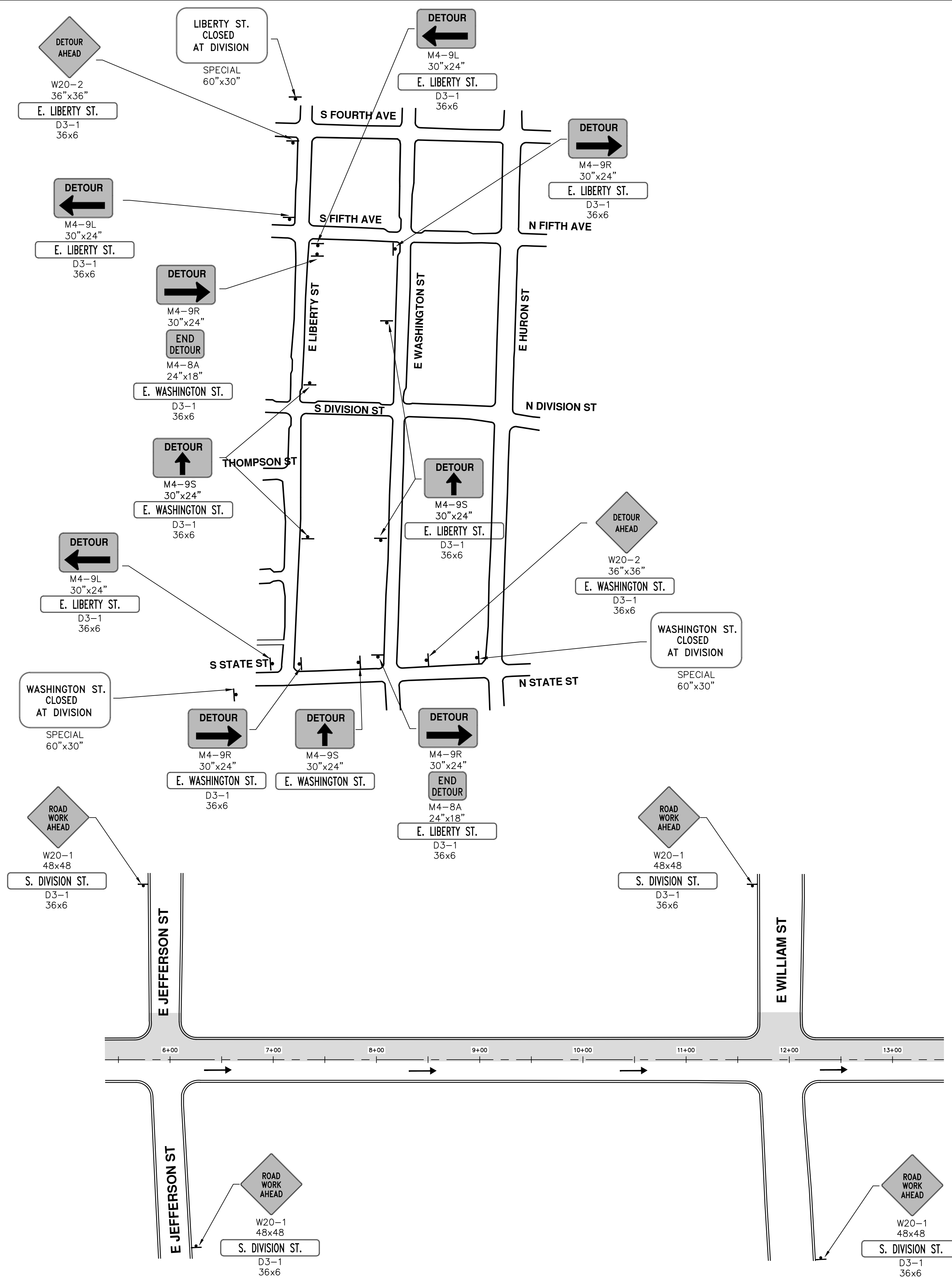
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 MAINTENANCE OF TRAFFIC  
 STAGE 2 PHASE 2

SCALE PLAN: 1" = 60'  
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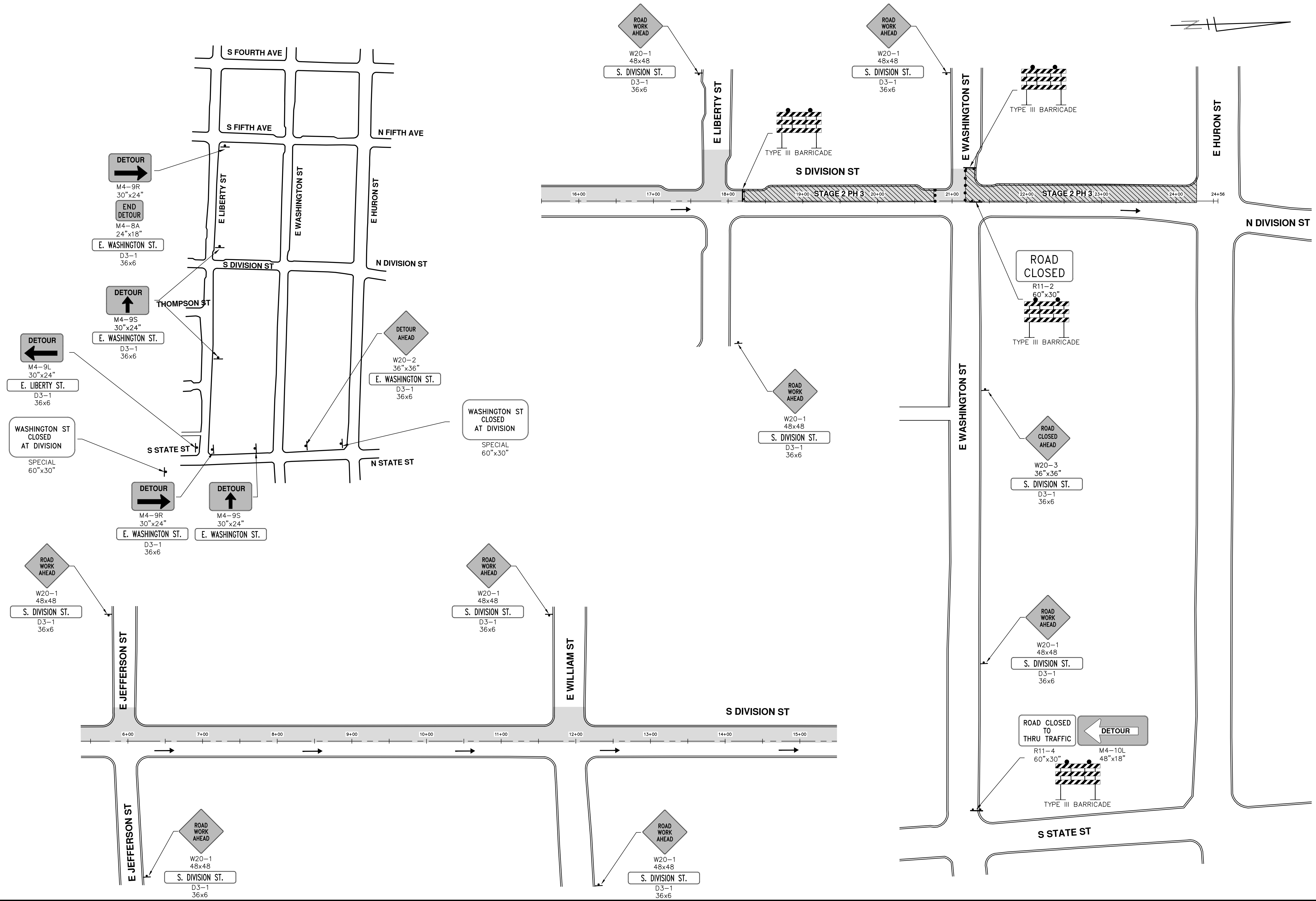
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**S. DIVISION ST. RESURFACING**  
MAINTENANCE OF TRAFFIC  
STAGE 2 PHASE 2A

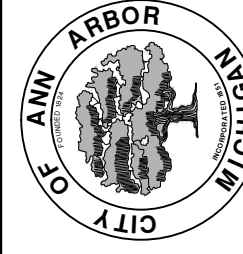
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 MAINTENANCE OF TRAFFIC  
 STAGE 2 PHASE 3

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