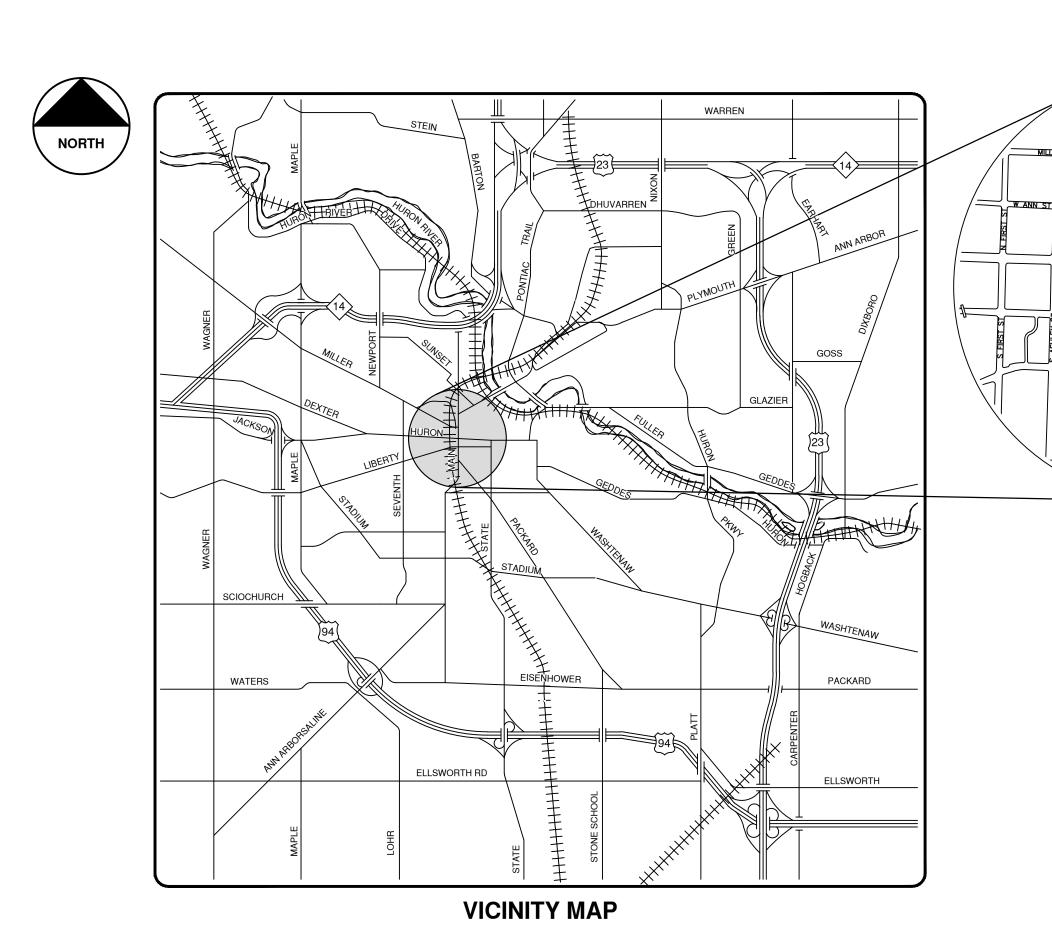


CITY OF ANN ARBOR PROJECT MANAGEMENT SOUTH FOURTH AVENUE IMPROVEMENT PROJECT

BID No. ITB 4280 FILE No. 2011033 **MARCH 2013**



SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
1	COVER
2	LEGEND
3	PROPOSED TYPICAL ROAD SECTION
4	DETAILS
5	REMOVALS
6	WATERMAIN PLAN AND PROFILE
7-8	STORM SEWER PLAN AND PROFILE
9-10	GRADES
11-12	ROAD PLAN AND PROFILE

STA. 0+41

STA. 6+26.50

DETOUR PLAN

MAINTENANCE OF TRAFFIC

PAVEMENT MARKINGS

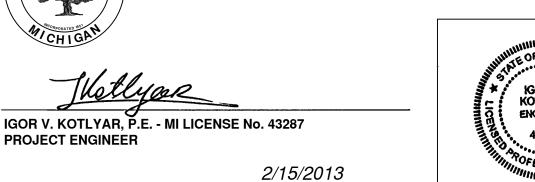
NOTES:

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND IT'S DETAILS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. ALL WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES STANDARD SPECIFICATIONS AND DETAILS.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 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.

PROJECT MANAGEMENT SERVICE UNIT



DATE





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
·	MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT	CITY OF ANN ARBOR CUSTOMER SERVICE

CONTACT INFORMATION

PUBLIC UTILITIES	OWNER	CONTACT
WATER SEWER		DAN WOODEN (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	KEVIN ERNST (734) 794-6350 TRACY PENNINGTON (734) 794-6350
SIGNS SIGNALS STREET LIGHTS		CHUCK FOJTIK (734) 794-6361
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 17150 ALLEN ROAD MELVINDALE, MI 48122	JAY WILLIAMS (313) 380-7303
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	CLAY COMBEE (734) 397-4112
CABLE	COMCAST 27800 FRANLKIN 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

CONSTRUCTION SEQUENCE:

- 1. Set up Stage 1 Phase I traffic control along with S. Fourth Ave. detour plan.
- 2. Install erosion control devices for entire project
- 3. Coordinate with the City removal/replacement of the street light at station 1+20 and contractor to remove trees at station 1+10 and 1+35.
- 4. Lower and offset existing manholes prior to machine grading operation. Machine grading limits and width for each work phase will be determined by Contractors proposed work schedule to be reviewed at Pre-Construction meeting.
- Construct 12 inch water main without connecting from station 0+00 to station 2+90 in Fourth Ave. between Washington St. and Huron St. Coordinate with City of Ann Arbor Field Operations Unit to begin transfer of water services from existing 4-inch to existing 8-inch in Fourth Ave from Liberty St. to Washington St. 6. During water main work and testing reconstruct Fourth Ave. from Washington St. to Liberty St. and place new
- storm structures and detention system. Proposed storm sewer work at the intersection of Washington St. and S. Fourth Ave. to be coordinated with water main connection at Washington St.
- 7. Place temporary blow off at station 2+90 for removal, aqua—swab and installation of 2 inch temporary blow off for flushing and sampling. 8. Pressure test entire length of water main.
- 9. After passing pressure test, connect new water main to existing main at station 0+00, flush, and remove
- 10. During testing of water main install proposed storm sewer in S. Fourth Ave. between Washington St. and Huron St. and start road reconstruction in this area.
- 11. Inject chlorine solution into the new water main at gviw station 0+02. Flush main and perform bacteriological testing per City of Ann Arbor Standards
- 12. After bacteriological testing of the water main is complete coordinate with City of Ann Arbor Field Operations Unit to transfer water services from existing 4—inch main to new 12—inch main in S. Fourth Ave. between Washington St. and Huron St.
- 13. Install Washington St. detour and schedule water, water abandonment, storm, and road work in intersection. Complete all work in intersection except for paving. Place temporary HMA lane for eastbound traffic only.
- 14. Once all services are transferred, schedule to abandon 4 inch water main connection at the intersection of S. Fourth Ave. and Liberty St.
- 15. Upon completion of utility work, stone reservoir and aggregate base, remove and replace concrete curb as indicated on plans or as directed by Engineer.
- 16. Grade aggregate base for proposed HMA placement from Liberty St. to Huron St. Keep one eastbound lane open on Washington St. 17. Place HMA base and leveling course from Liberty St. to Huron St. Use flag control to pave entire
- Washington/Fourth intersection.
- 18. Adjust manholes to grade and place HMA wearing course. 19. Install permanent pavement markings
- 20. Remove all erosion control devices.
- 21. Remove all temporary signage and traffic control devices.

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 transferring 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 Type 1. Modified. 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

I. The contractor shall implement

plans at all times during

construction on this project.

and maintain the soil erosion

control measures as shown on the

Any modifications or additions to

the soil erosion control measures

due to construction or changed

as required or directed by the

owner, project engineer, or the

Frosion Control Permit anytime

2. All soil erosion and sedimentation

control work shall conform to the

permit requirements of the City of

Ann Arbor, Chapter 63, and the

inspections shall be made by the

contractor. Periodic inspections

erosion and sedimentation control

corrections shall be made without

delay, and without additional cost

contained on the site and not be

allowed to collect on any off-site

determine the effectiveness of

laws of the State of Michigan.

3. Daily or after storm events

owner/project engineer to

measures. Any necessary

4. Erosion and sedimentation from

work on the site shall be

areas or waterways.

may be made by the

to the Owner.

the disturbed area exceeds 1

is required to obtain a Soil

conditions shall be complied with

City of Ann Arbor. The contractor

GENERAL

SOIL EROSION CONTROL NOTES:

- 12. When all water services are transferred the Contractor shall abandon the existing water main. Reference the Public Services Department Standard Specifications for water main abandonment procedures. Caps and plugs shall be installed by the Contractor where shown on the plans and shall be included in the item of work for water main abandonment or as directed by Engineer.
- 13. The Contractor shall construct, flush, and bacteriologically test the water main as detailed in the Public Services Department Standard Specifications, "Water Main Testing" (Item 3H, pg. IV-34) 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.
- 14. 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.
- 15. "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 specifications. Contractor to coordinate with DDA and Republic Parking to obtain meter bags for parking meters within the construction limits. The cost of parking meter baas to be included in pay item "General Conditions, Modified".
- 16. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
- 17. 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.
- 18. Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
- 19. 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".
- 20. All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.

5. All mud/dirt tracked onto roads

from the site due to construction,

shall be promptly removed by the

mechanical street sweeper at no

contractor. If so ordered, the

Contractor shall employ a

additional cost to the Owner.

6. Restoration of all disturbed areas,

including placement of topsoil,

seed, fertilizer and mulch and/or

sod shall be done within 5 days

of the completion of final grade

scheduled and performed so that

preventative soil erosion control

measures are in place prior to

excavation in critical areas and

8. Special precautions will be taken

equipment to prevent situations

maintained during construction by

chloride as required or as directed

in the use of construction

9. Proper dust control shall be

10. The contractor shall be

use of water trucks and/or

responsible for maintaining all

temporary soil erosion control

measures and removal of some

not be authorized until all site

work and utility construction is

complete and all soils are

upon authorized completion of the

project. Completion of project will

backfilling operations.

that promote erosion.

by Engineer.

stabilized.

temporary stabilization measures

are in place immediately following

7. Construction operations shall be

11. The contractor shall not grade

into adjacent properties. Silt

fence shall be installed and

12. Tree protection fencing must

SEQUENCE OF EROSION CONTROL

l. Install silt fence, tree protection

existing storm inlets prior to any

following installation of proposed

3. Contractor to continually maintain

measures, as required to allow

drainage and sediment removal.

4. Strip and clear — maintain erosion

Remove any accumulated

control measures around

6. Install stormwater management

7. Connect stormwater management

temporary stock piles.

erosion and sedimentation control

fencing and inlet filters on

clearing or earth moving

2. Install inlet filters immediately

storm drainage system.

the site is complete.

MEASURES:

operation.

sediment.

5. Rough grade

maintained to prevent grading.

remain intact until restoration of

- 21. Sawed sewer pipe connections shall be coupled with a Fernco flexible coupling and a stainless steel shear rina.
- 22. The location of material stock piles and on—site staging areas to be approved by the
- 23. 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.
- 24. All structures shall receive new castings as directed by the Engineer, either Type B or Type K, or 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.
- 25. Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or
- 26. 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.
- 27. Where sewer and water main are to be removed & replaced or added, all pipe shall be installed using Trench Detail 1, Modified as detailed in the specifications. Trench Detail 1 backfill for sewer and water construction shall be MDOT Granular Material, Class II, Modified.
- 28. 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 "Machine Grading, Modified"
- 29. In areas where edge drain cannot be installed in accordance with City of Ann Arbor Detail SD-TD-11. the edge drain shall be installed at the depth as indicated on the plans, or as directed by Engineer. In no case shall the edge drain be installed at a grade less than 0.50% or at a depth of less than 2' below top of proposed pavement.

control measures.

TEMPORARY SEEDING: erosion and sedimentation into

- 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.

- be protected from unvegetated areas washing onto road surface by placement of silt fence behind curb or a 10 foot wide straw mulch bank behind curb or other approved method and/or as shown on the plans.
- of the project, adjoining roads shall be maintained free of dirt, silt and construction debris. Contractor required to use vacuum sweeper equipment for cleaning construction site and adjoining roads. The use of broom

1. Protect storm sewer catch basins with approved inlet filters.

8. Ensure all soil is stabilized. Remove all temporary soil erosion

- 1. Seed in accordance with project

ROADS:

- 1. During construction, all roads shall
- 2. During construction of any portion sweeper is not permitted.

CATCH BASIN/MANHOLE PROTECTION:

TREE (DECIDUOUS) TREE (CONIFEROUS) STUMP SHRUB (DECIDUOUS)

— r — STORM SEWER _____ SANITARY SEWER GAS MAIN

BOUNDARY ///////// BUILDING

------ CENTERLINE OF DITCH ------ CENTERLINE/CROWN OF ROAD

----- EDGE OF WATER —_//—__//—____FENCE

STONE WALL

TREELINE

☆ ORNAMENTAL LIGHT

② UNKNOWN MANHOLE TELEPHONE MANHOLE □ TELEPHONE RISER

EXISTING LEGEND

| GATE VALVE IN BOX

⊗ GATE VALVE IN WELL

- FIRE HYDRANT

STOP BOX

₩ WELL

W WATER VAULT

☐ CATCH BASIN (SQ)

⊕ CATCH BASIN (RD)

SANITARY MANHOLE

• PEDESTRIAN SIGNAL

☐ HAND HOLE

POST

SIGN

☐ NON-CURB CATCH BASIN (SQ)

© STORM MANHOLE

 GAS VALVE ⊗ GAS VENT

⊠ GAS BOX ⊠ ELECTRICAL RISER

Ø UTILITY POLE

A GUY ANCHOR Q GUY POLE

○ LAMP POLE

MONITORING WELL ■ MAILBOX

SOIL BORING

A TRAVERSE POINT + BENCH MARK

• IRON PIPE

■ MON BOX PROPOSED LEGEND

WATER MAIN +♥+ HYDRANT (PLAN) — — — STORM SEWER ▼ REDUCER SANITARY SEWER WATER GATE VALVE --- - - CENTERLINE OF DITCH WATER STOP BOX CENTERLINE OF ROAD W WATER VAULT

SILT FENCE INLET **■**·**■** DOUBLE INLET LOT/UNIT

(III) INLET JUNCTION CHAMBER STAGE LINE ROUND CATCH BASIN STORM MANHOLE TEMPORARY GRADING PERMIT DRAIN ARROW --- WATER EASMENT

T FLARED END SECTION --- STORM EASEMENT SANITARY MANHOLE --- SANITARY EASEMENT CLEAN—OUT

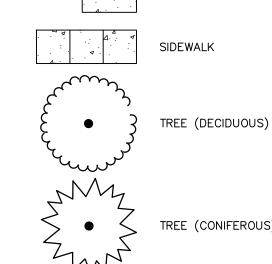
BARREL LIMITS OF CONSTRUCTION → SIGN OCOCODO DO COCODO DO STONE WALL PUSH BUTTON

DETECTABLE WARNING **ASPHALT** CONCRETE

BENCHMARKS:

1. STEAMER VALVE ON HYDRANT AT NORTHWEST CORNER HURON AND FOURTH. ELEV 840.41 (NAVD 88 DATUM)

2. STEAMER VALVE ON HYDRANT AT SOUTHWEST CORNER WASHINGTON AND FOURTH. ELEV 843.50 (NAVD 88 DATUM)

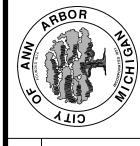




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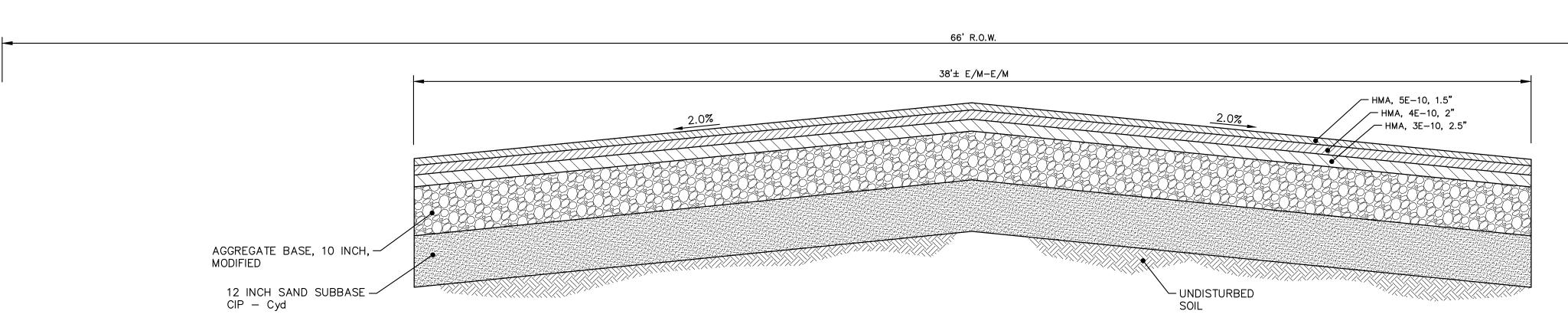


ANAGEM

Ž PROJE

TREE (CONIFEROUS)

SHEET No. 2 OF 17



HURON ST.-WASHINGTON ST.

SOUTH FOURTH AVENUE - WASHINGTON STREET INTERSECTION

TYPICAL SECTION - LOOKING SOUTH

STA. 3+03.50 TO STA. 3+74

N.T.S.

Know what's below.

Call before you dig.

l					
	00	00 MDEQ SUBMITTAL	2-15-13	DPF,CEC	ΝΚ
	REV.	DESCRIPTION	DATE	DRAWN	DRAWN CHECKED

CITY OF ANN ARBOR PUBLIC SERVICE 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org

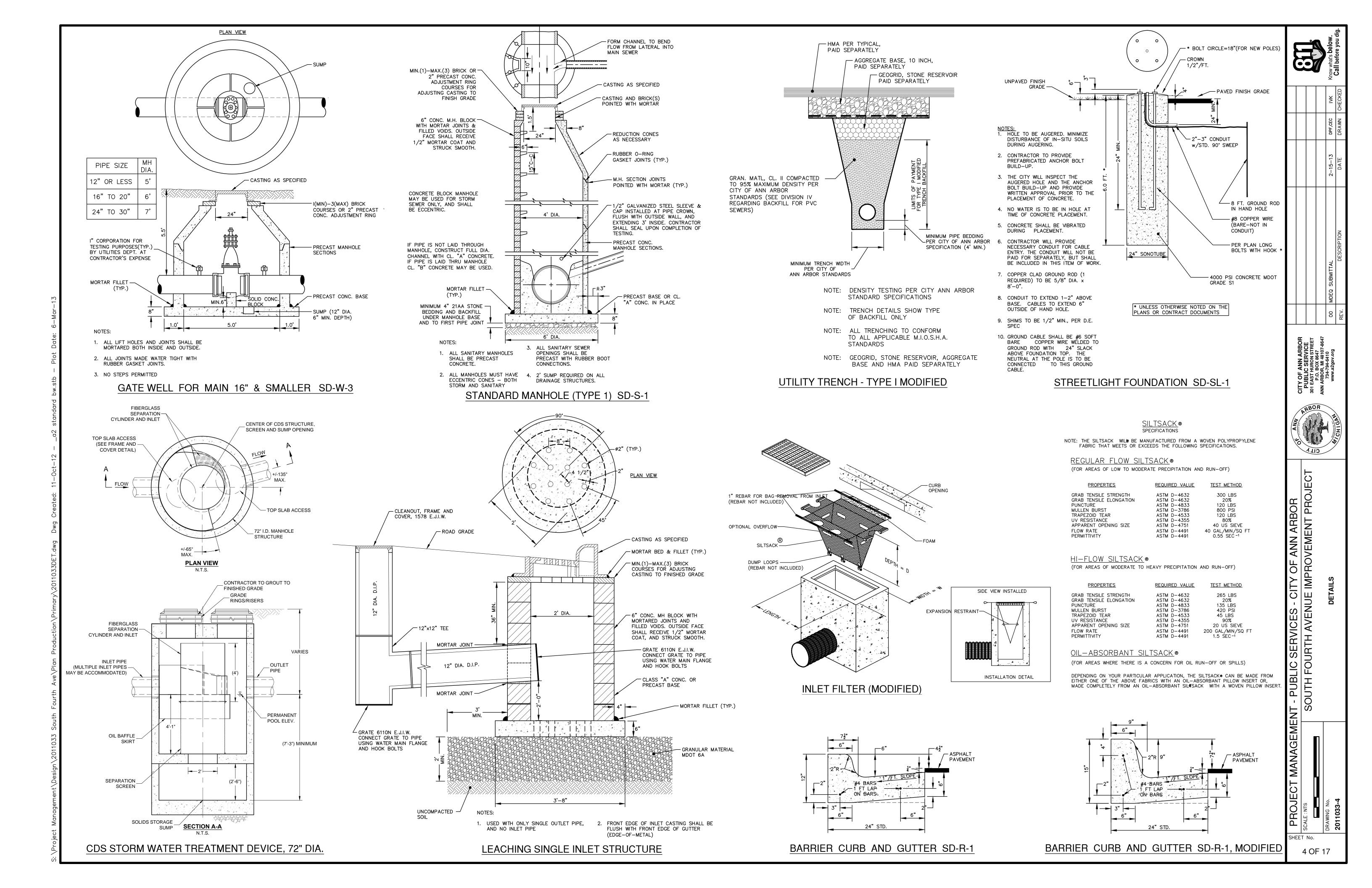


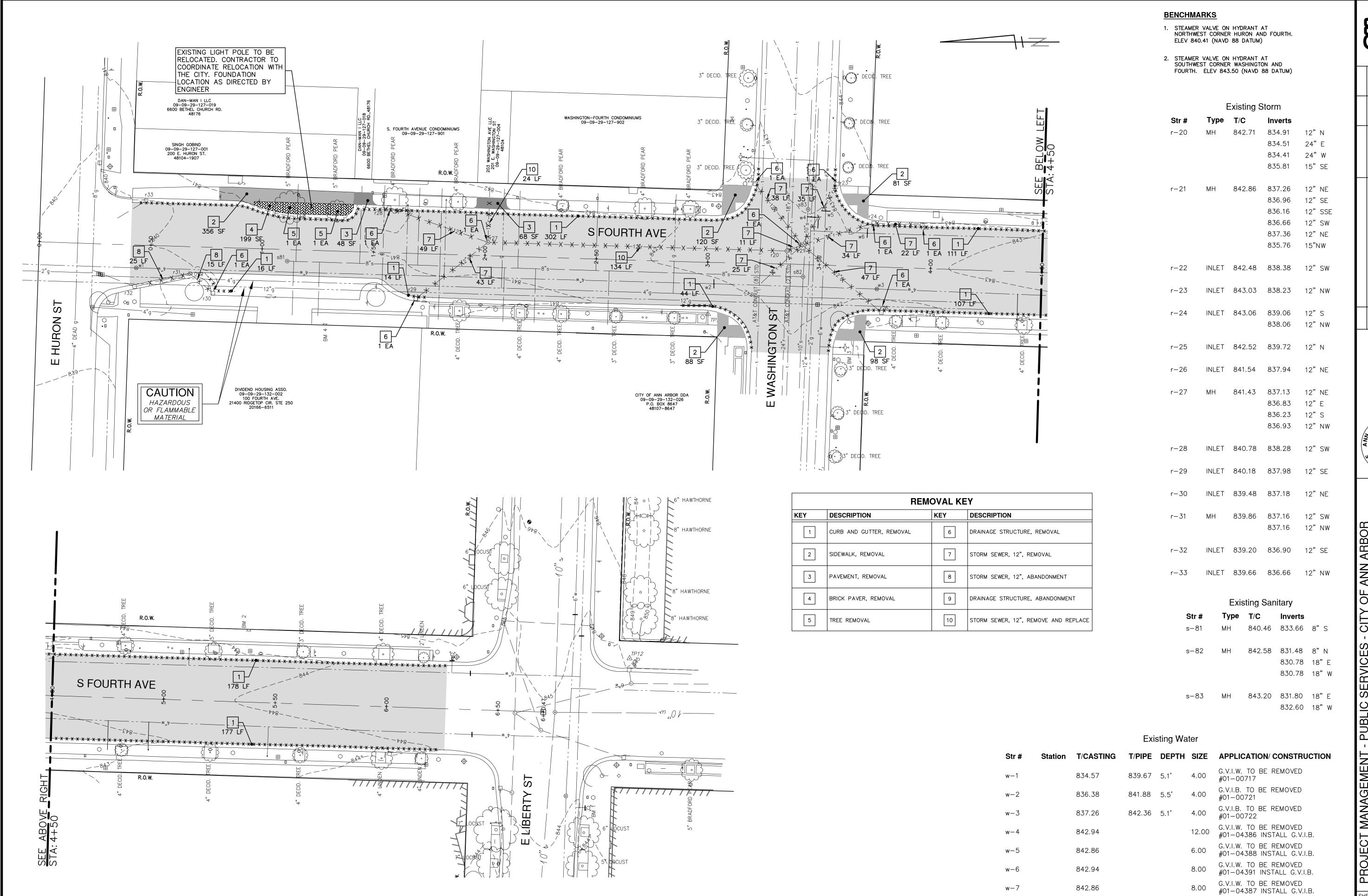
- PUBLIC SERVICES - CITY OF ANN ARBOR DUTH FOURTH AVENUE IMPROVEMENT PROJEC

PROJECT MANAGEMENT - PUBI

ΙΕΕΤ No.

3 OF 17



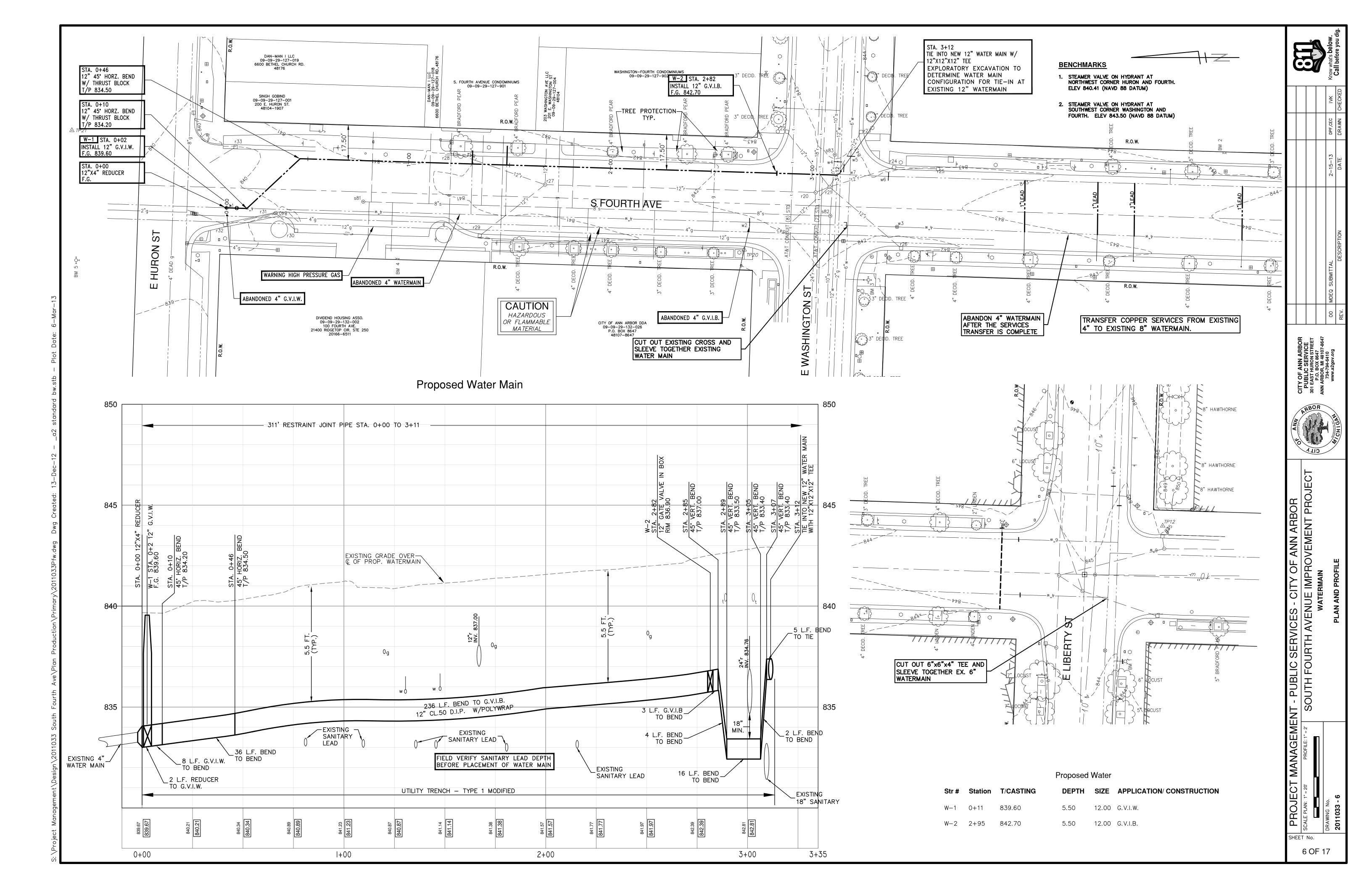


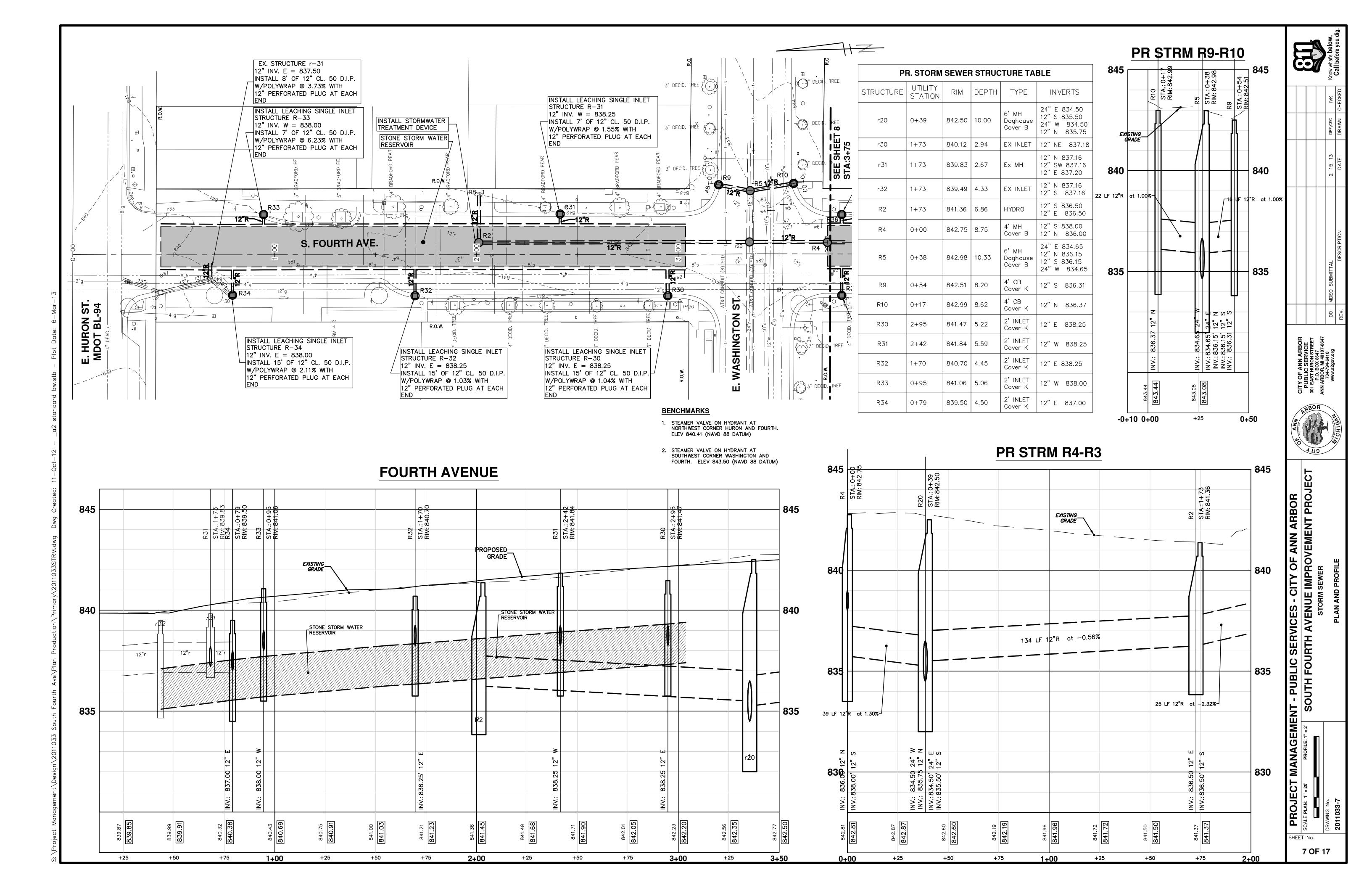
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		2-15-13	DATE
		'AL	DESCRIPTION

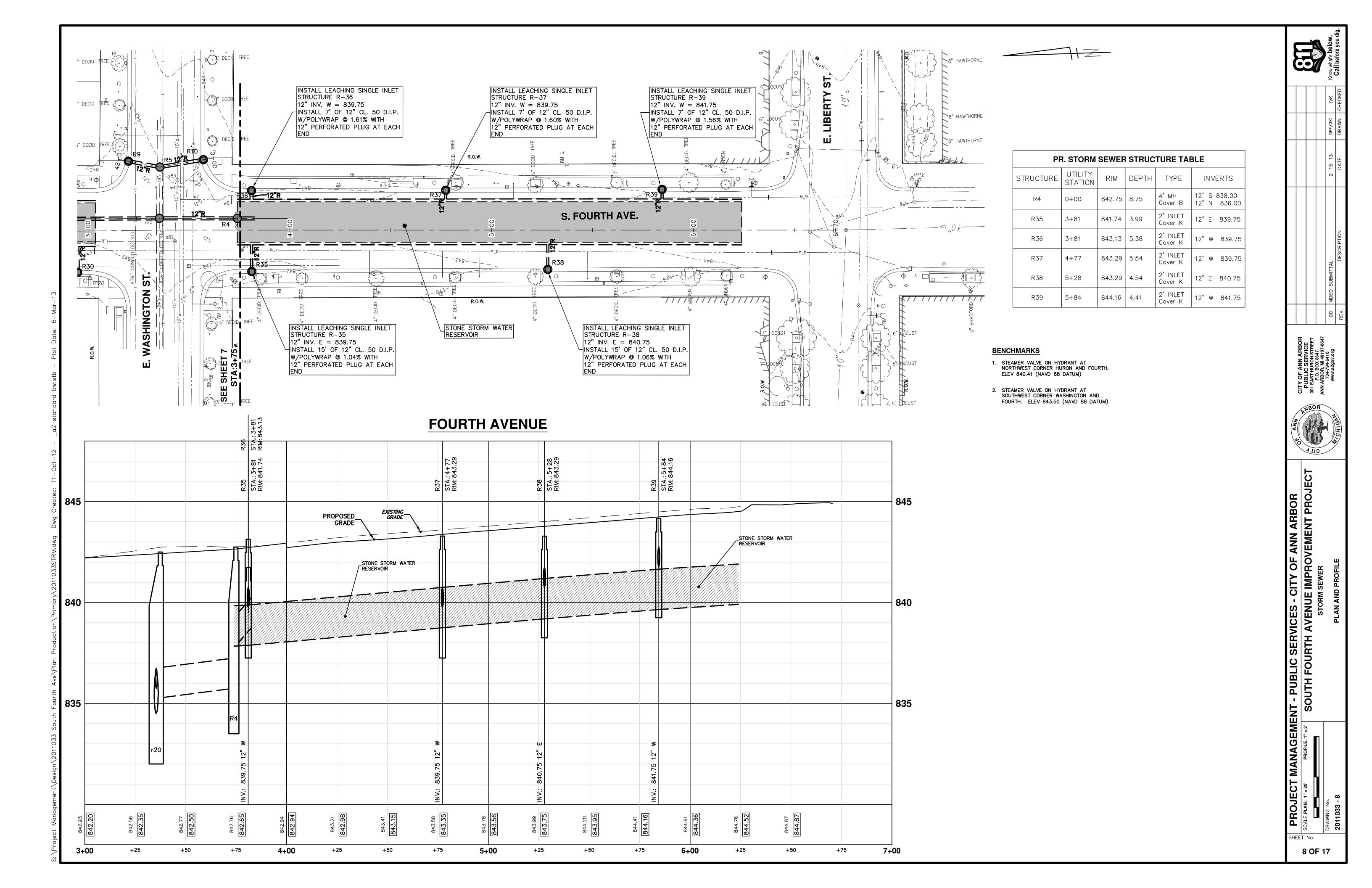


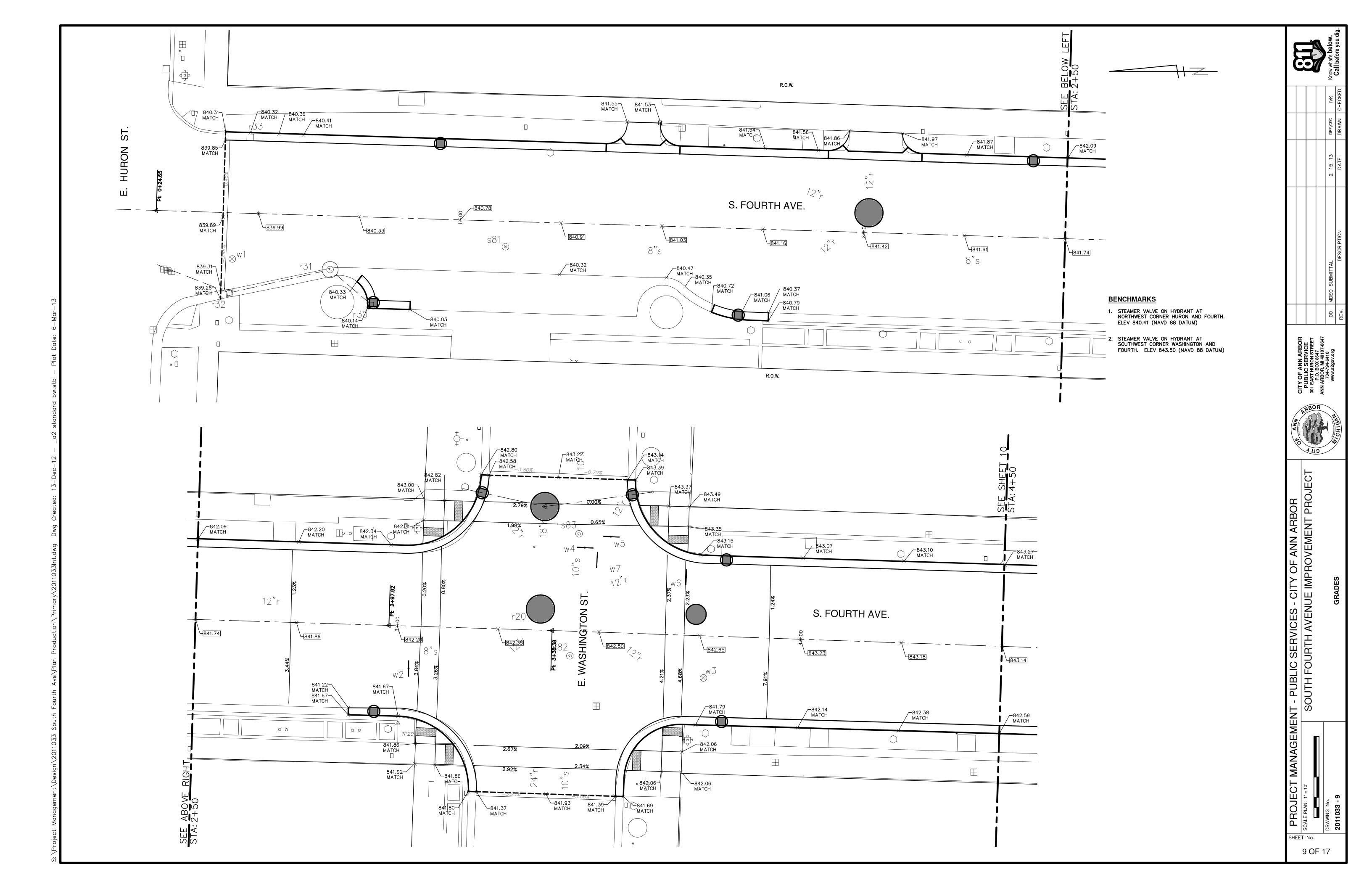
PROJECT MANAGEMENT SCALE PLAN: 1" = 20"

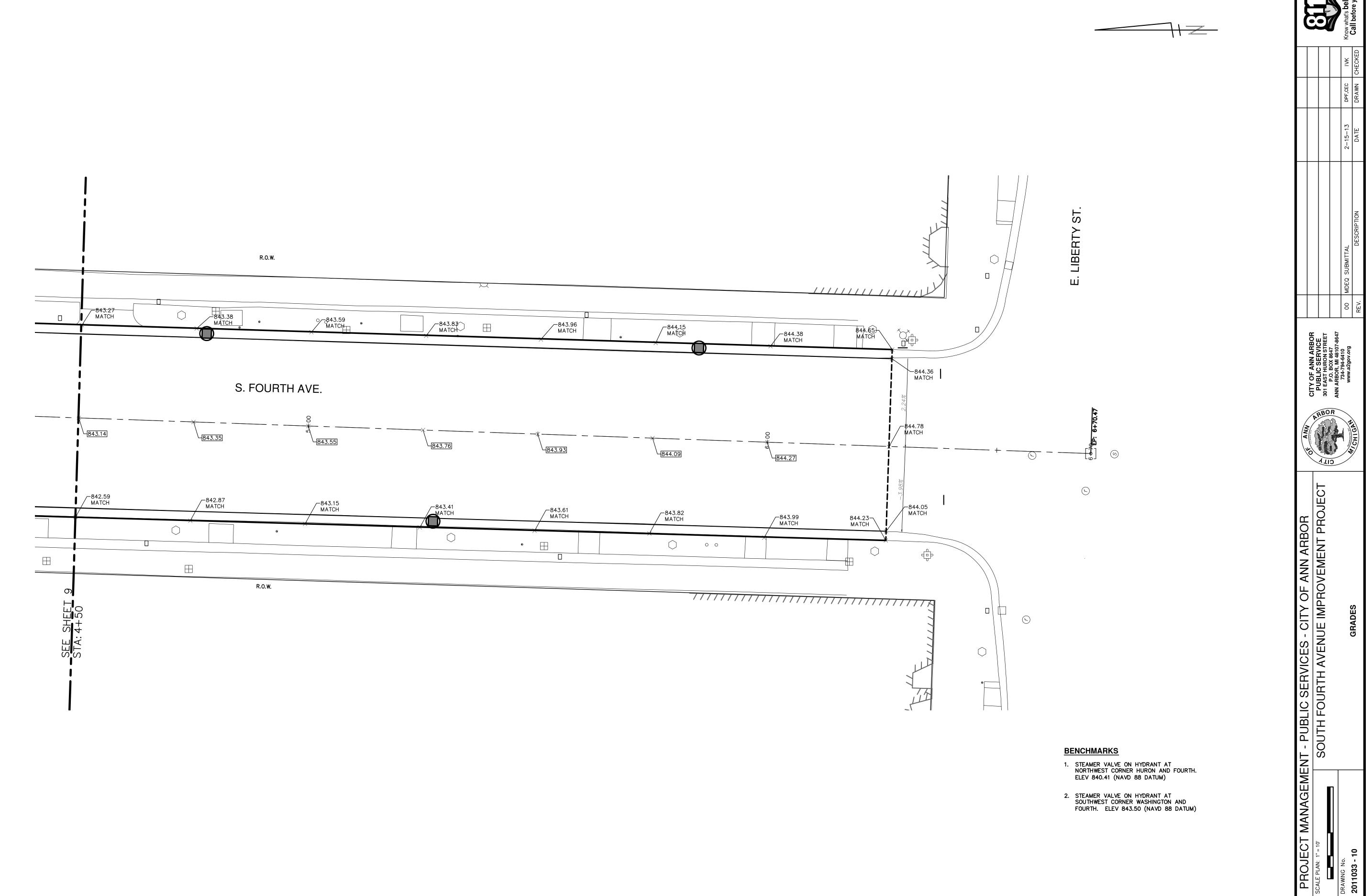
SHEET No. 5 OF 17



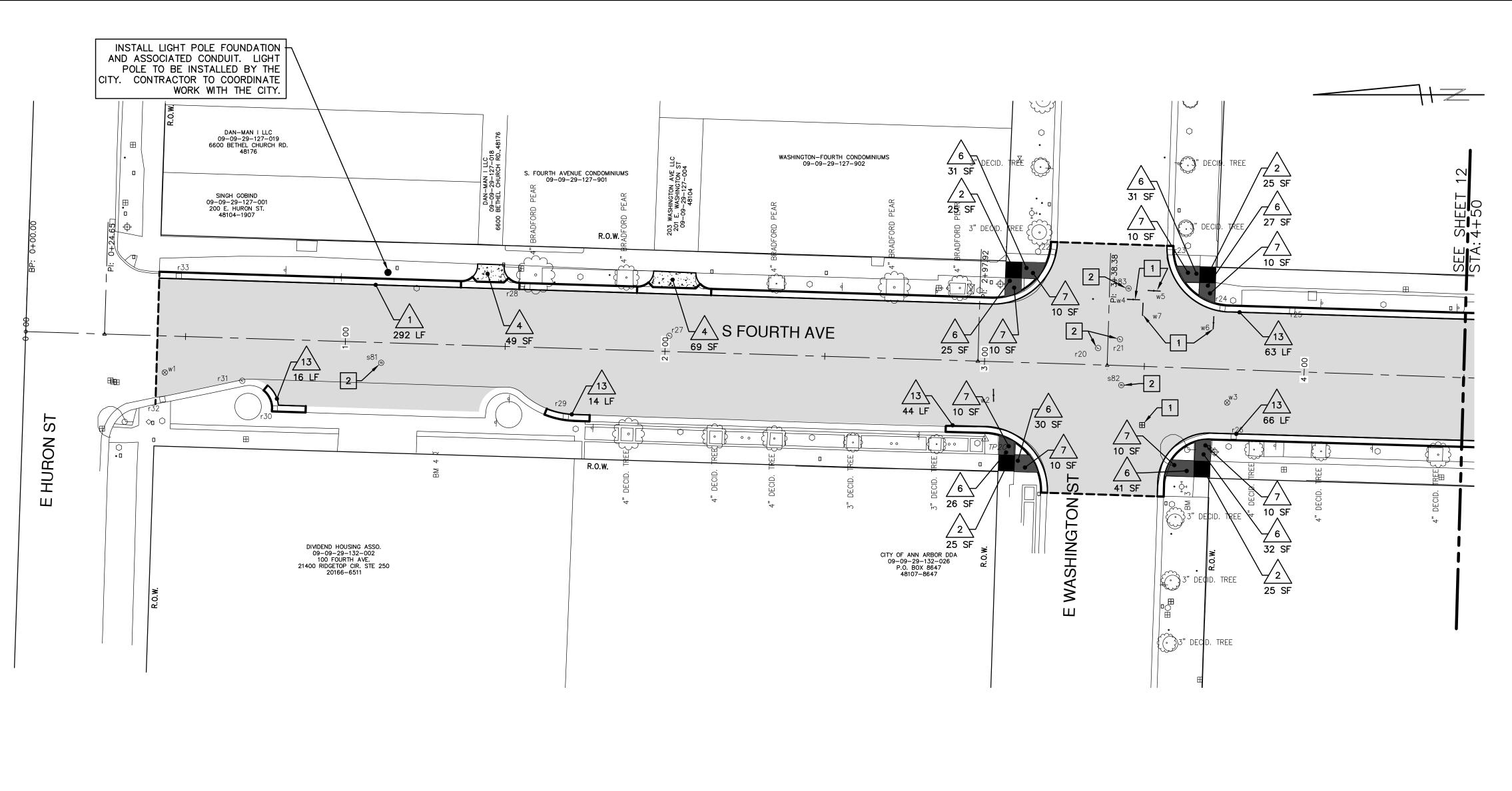


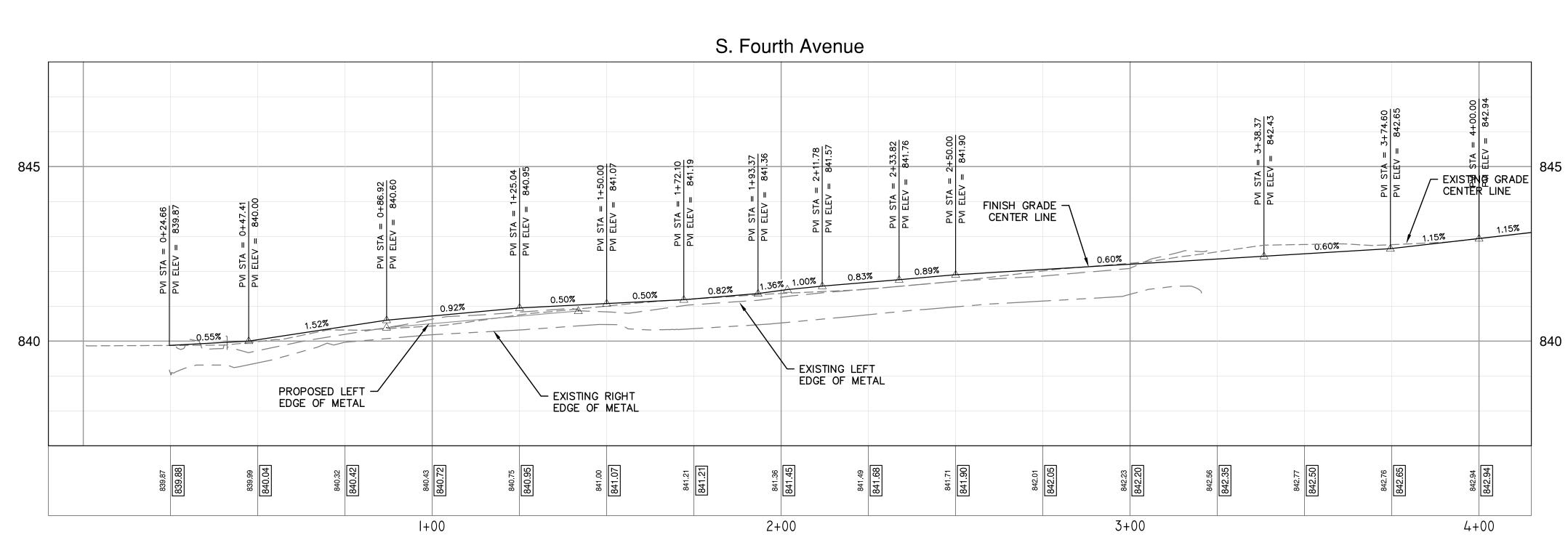






SHEET No. 10 OF 17



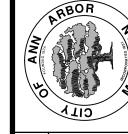


BENCHMARKS

- STEAMER VALVE ON HYDRANT AT NORTHWEST CORNER HURON AND FOURTH. ELEV 840.41 (NAVD 88 DATUM)
- STEAMER VALVE ON HYDRANT AT SOUTHWEST CORNER WASHINGTON AND FOURTH. ELEV 843.50 (NAVD 88 DATUM)

	CONSTRUCTION KEY
KEY	DESCRIPTION
1	PLACE CURB AND GUTTER, CONCRETE, MODIFIED
2	PLACE SIDEWALK, CONCRETE, 4 INCH
3	PLACE SIDEWALK, CONCRETE, 6 INCH
4	PLACE DRIVEWAY, NON REINFORCE, CONCRETE, 6 INCH MODIFIED
5	PLACE DRIVEWAY, NON REINFORCE, CONCRETE, 8 INCH MODIFIED
6	SIDEWALK RAMP, CONCRETE, 6 INCH MODIFIED
7	DETECTABLE WARNING SURFACE, MODIFIED
8	DRIVE OPENING, CONCRETE, DET M, MODIFIED
9	PLACE BRICK PAVERS
10	HMA DRIVEWAY WEDGING
	SIDEWALK RETAINING WALL, GREATER THAN 18 INCH
12	BLOCK RETAINING WALL, MORTARLESS, UNREINF, MODIFIED
13	PLACE CURB AND GUTTER, CONCRETE
1	ADJUST GATE VALVE BOX OR MONUMENT BOX. GAS BOX
2	REMOVE AND REPLACE TYPE A CASTING, MODIFIED
3	ABANDON WATER STRUCTURE
4	REMOVE STRUCTURE AND REPLACE 2' DIA. DRAINAGE STRUCTURE.
5	POINT STRUCTURE.
6	ADJUST MDOT TYPE B CASTING TO FINISH GRADE
7	ADJUST MDOT TYPE K CASTING TO FINISH GRADE
8	REMOVE AND REPLACE MDOT TYPE K CASTING, MODIFIED





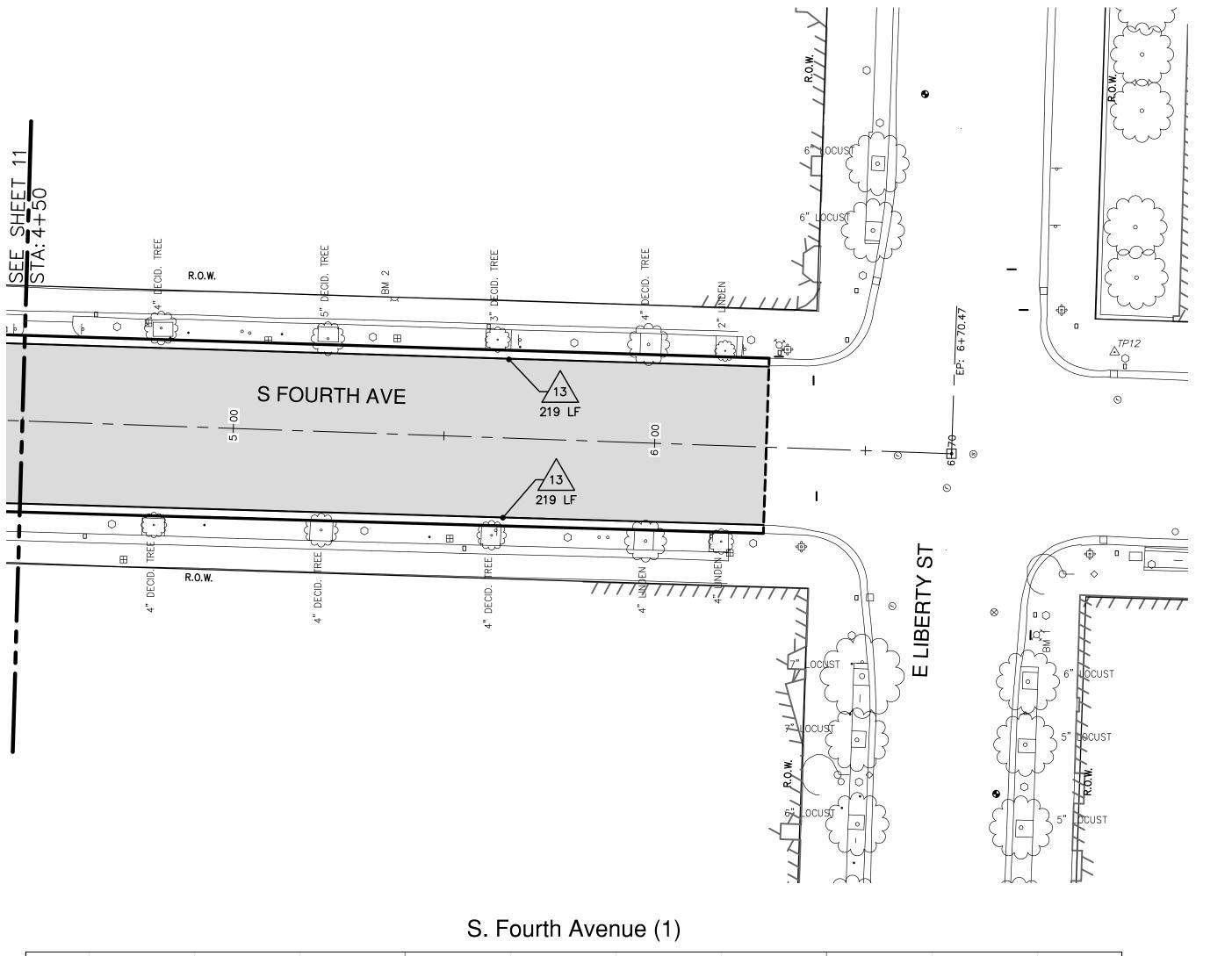
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

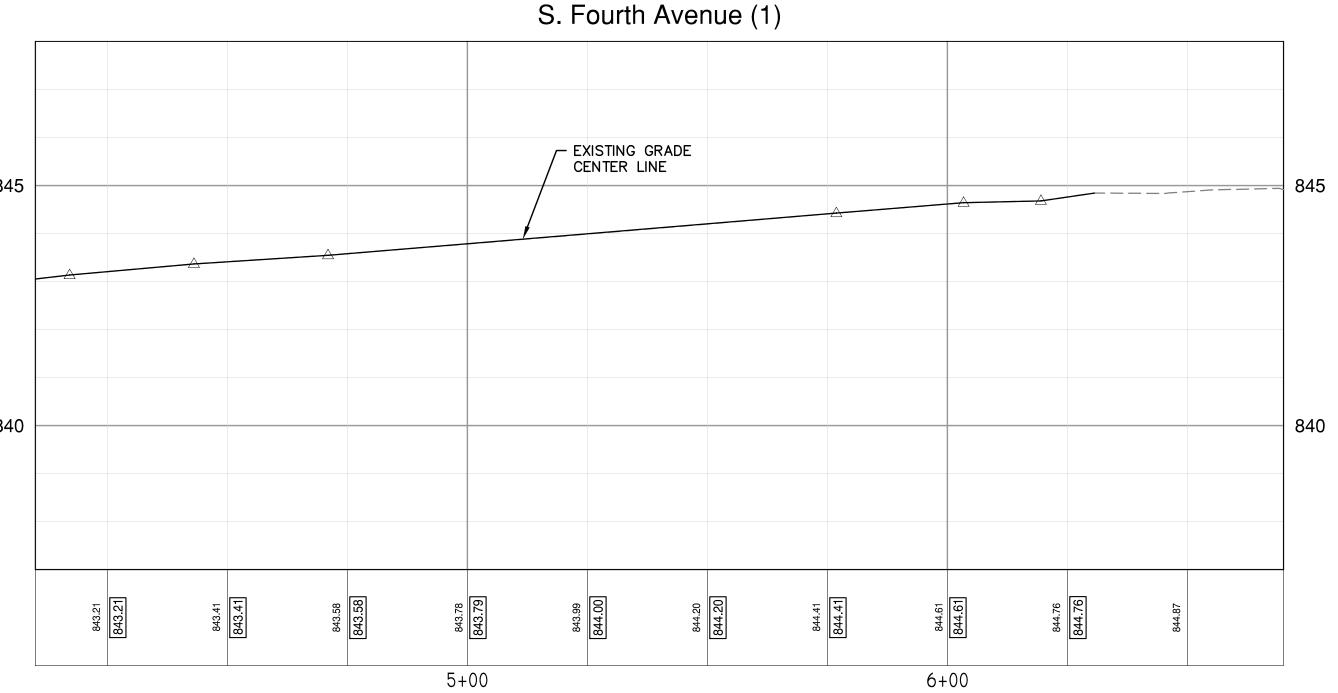
SCALE PLAN: 1"= 20 PROFILE: 1"= 2 SOUTH FOURTH AVENUE IMPROVEMENT PROJECT

BRAWNG NO.

ROAD PLAN AND PROFILE

11 OF 17

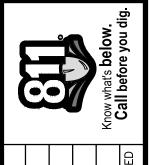




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00	00 MDEQ SUBMITTAL	2-15-13	DPF,CEC	I/K
<u>`</u>	DESCRIPTION	DATE	DRAWN CHECKE	CHECKE

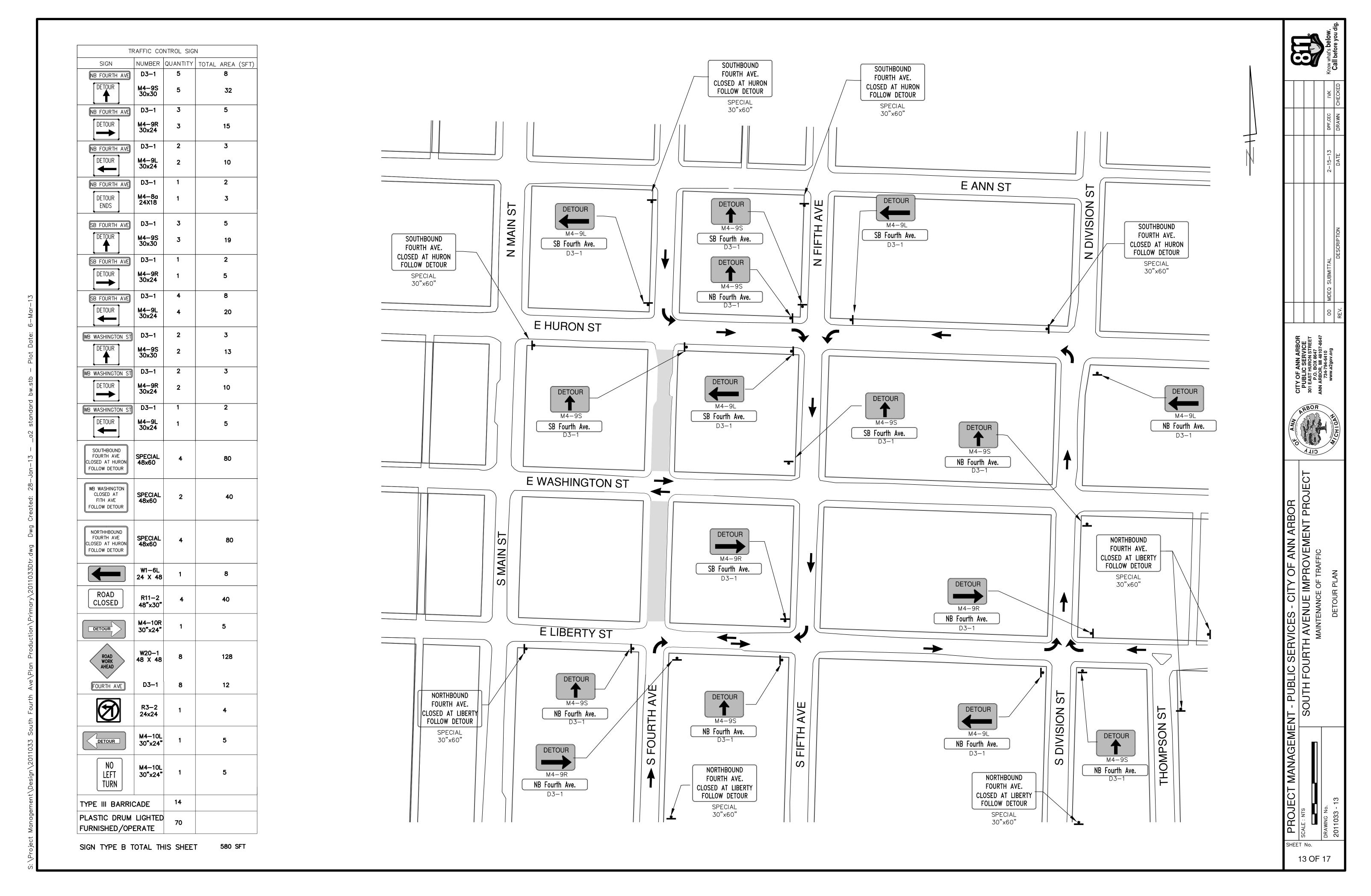


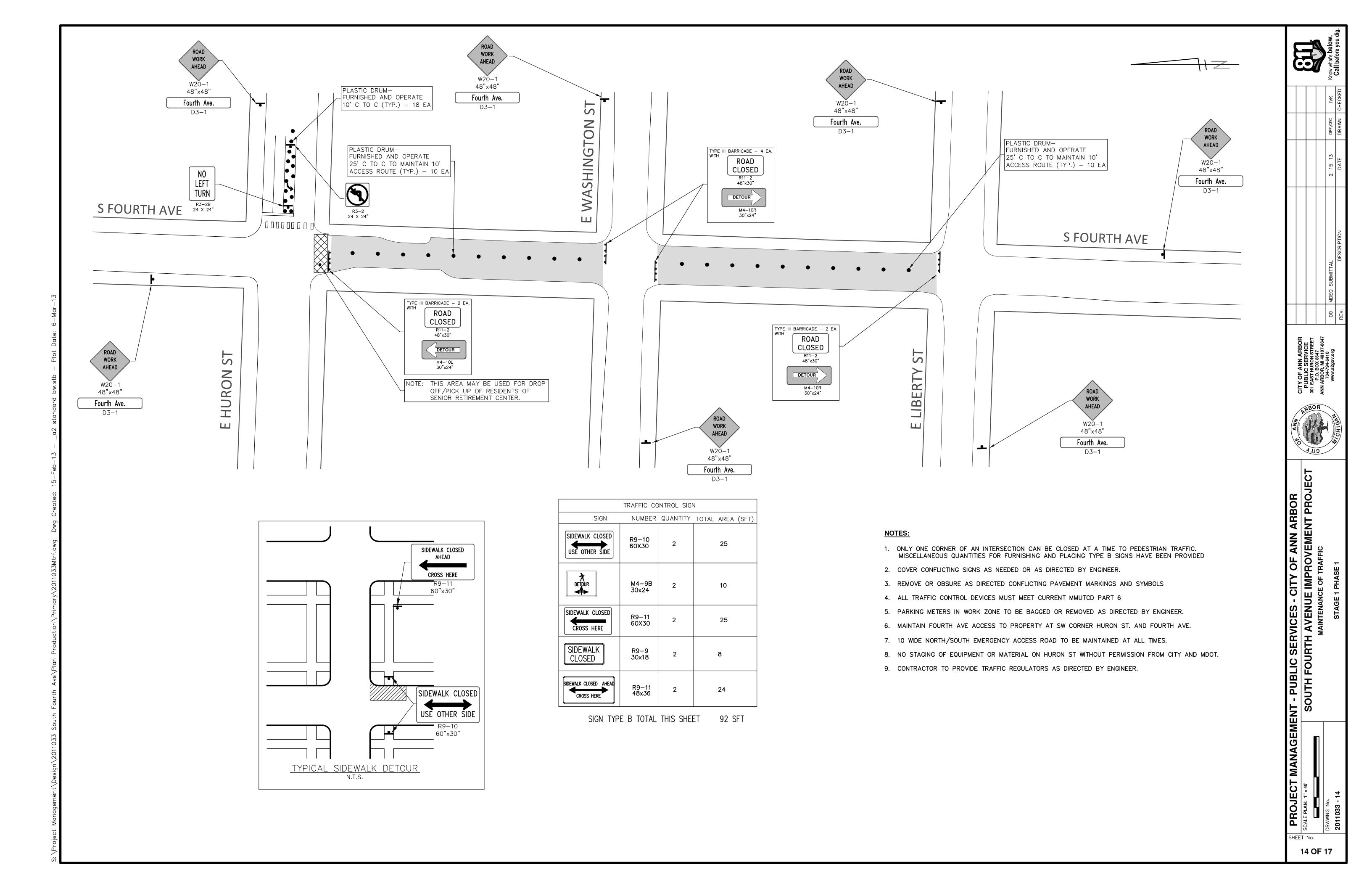


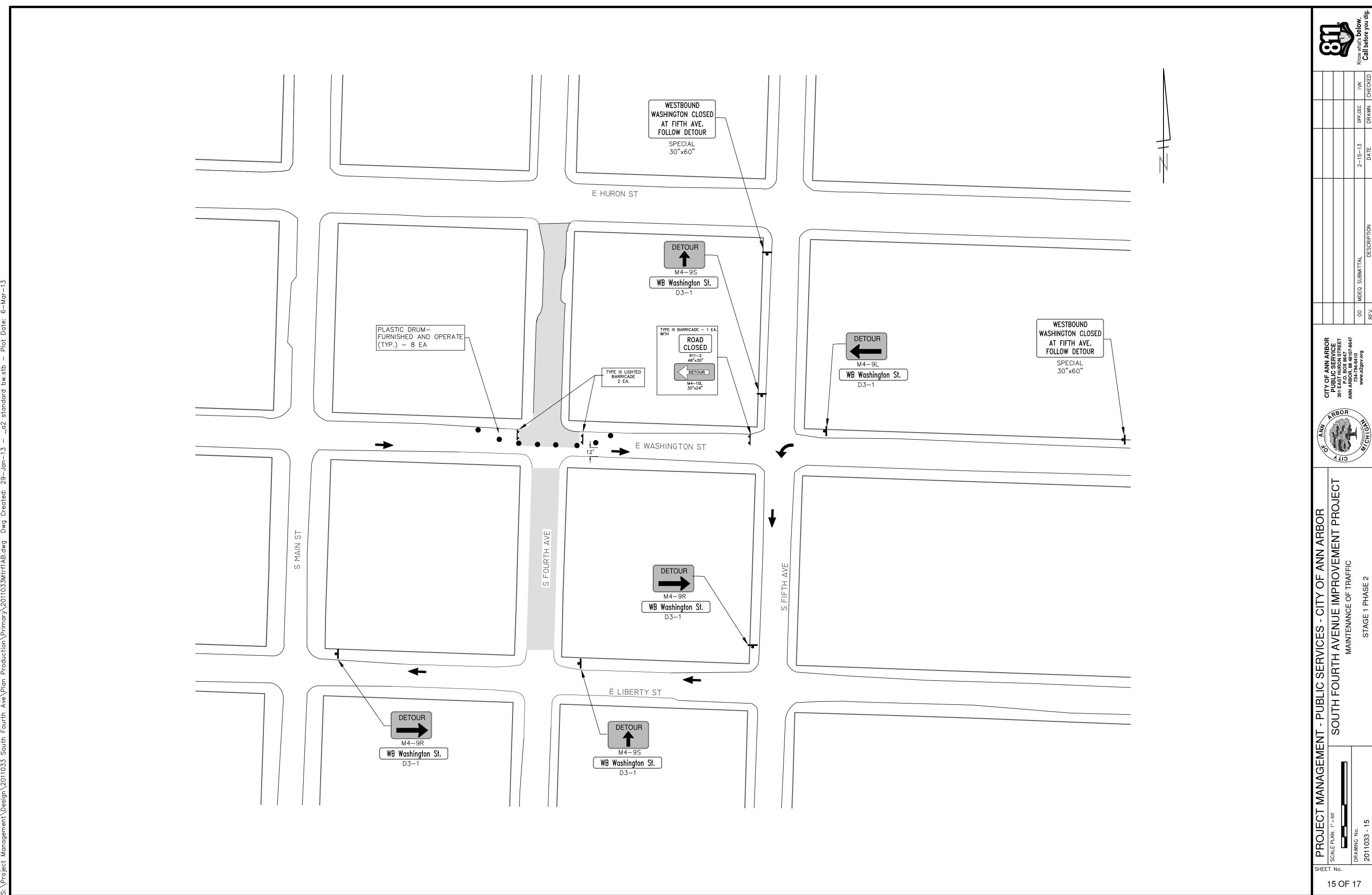
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOI SCALE PLAN: 1" = 20

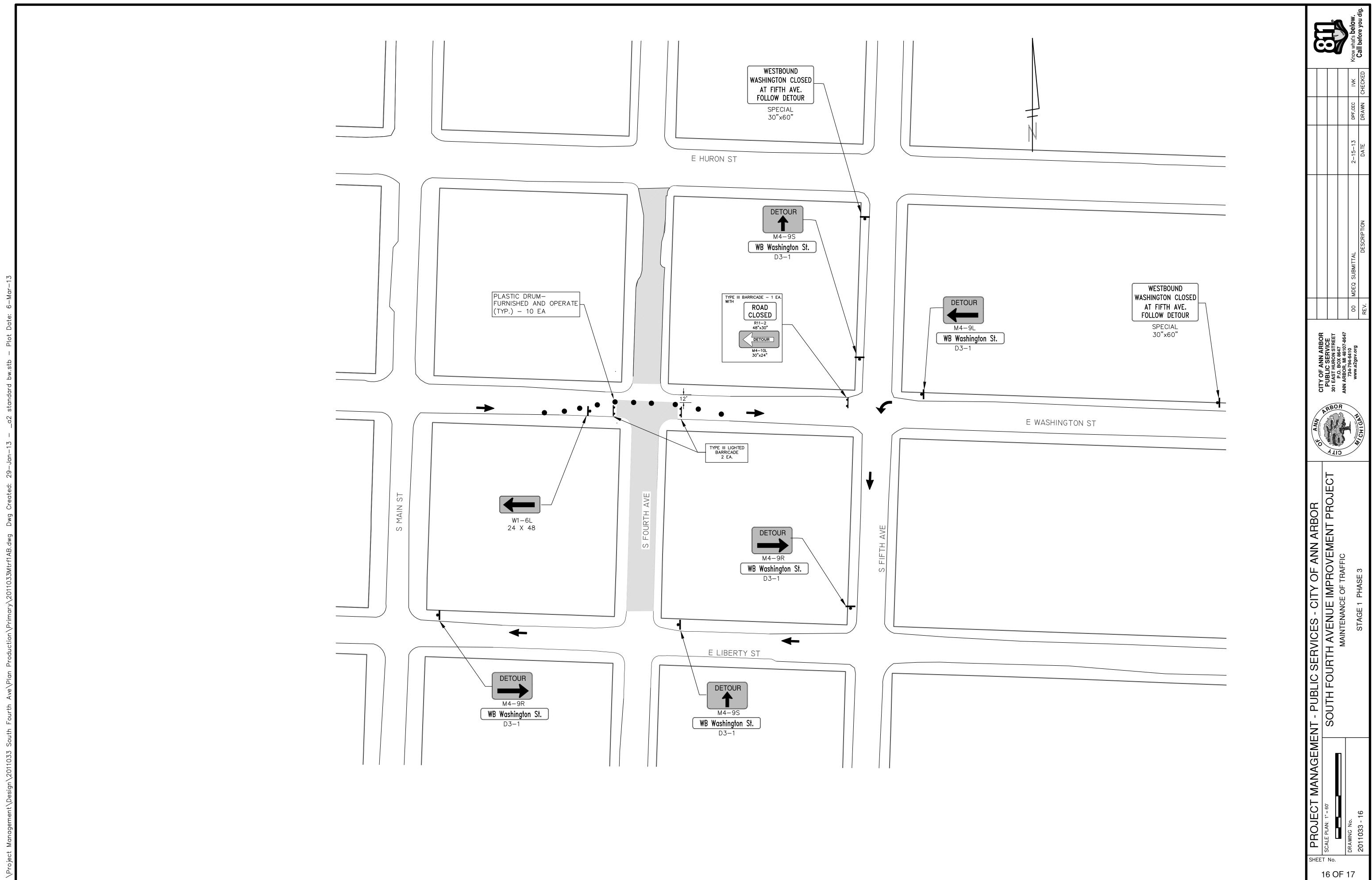
SCALE PLAN: 1"

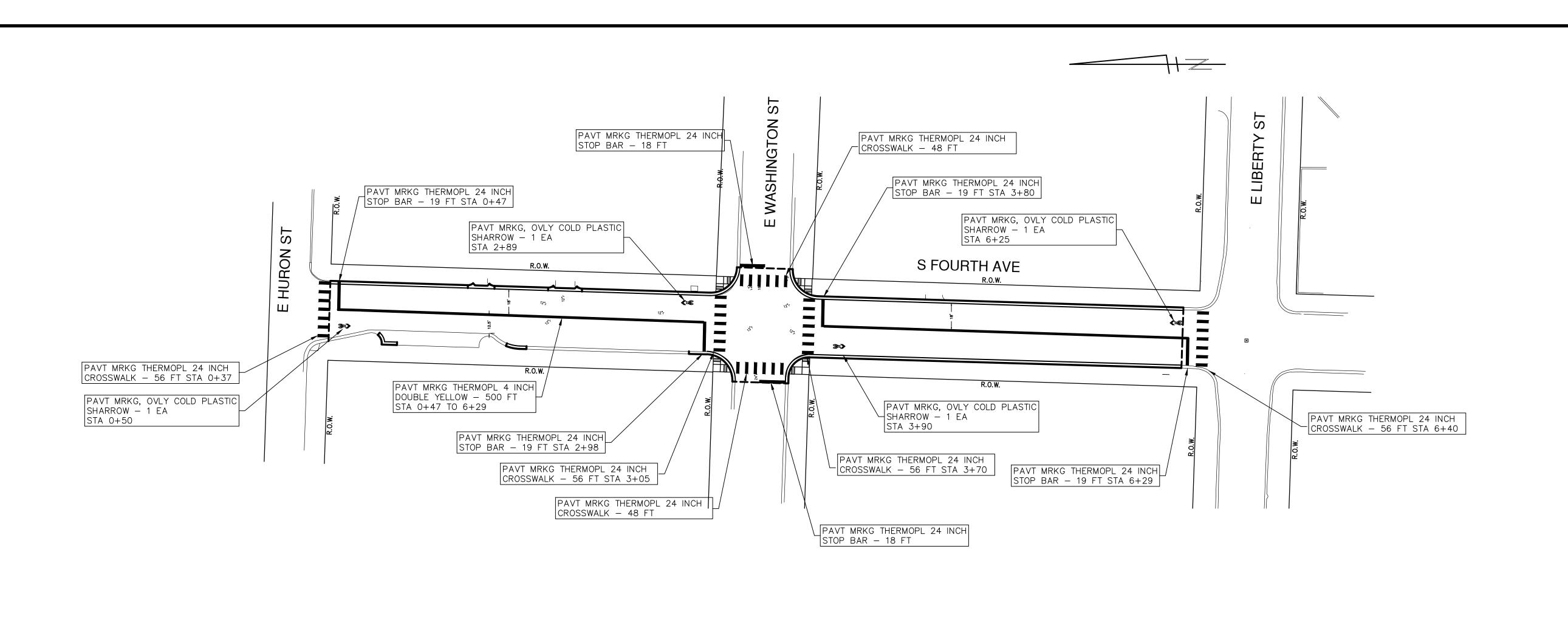
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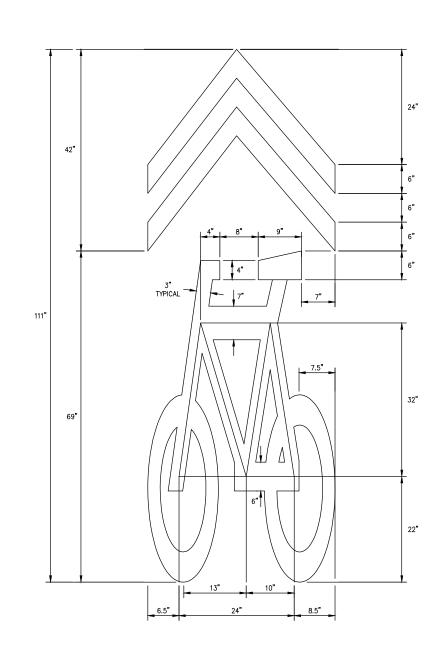


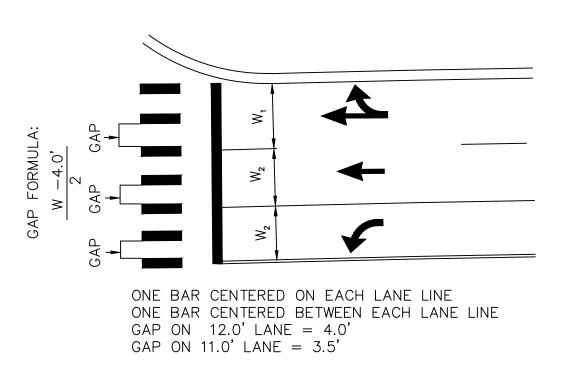




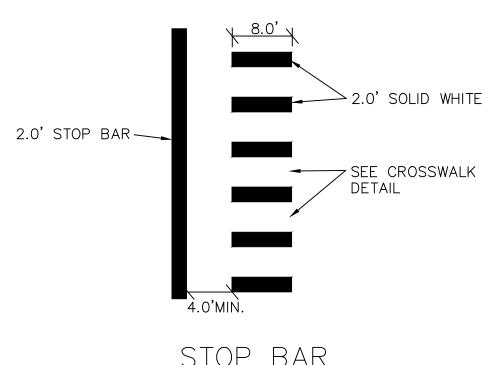








CROSSWALK DETAIL



STOP BAR DETAIL

SHEET No.

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