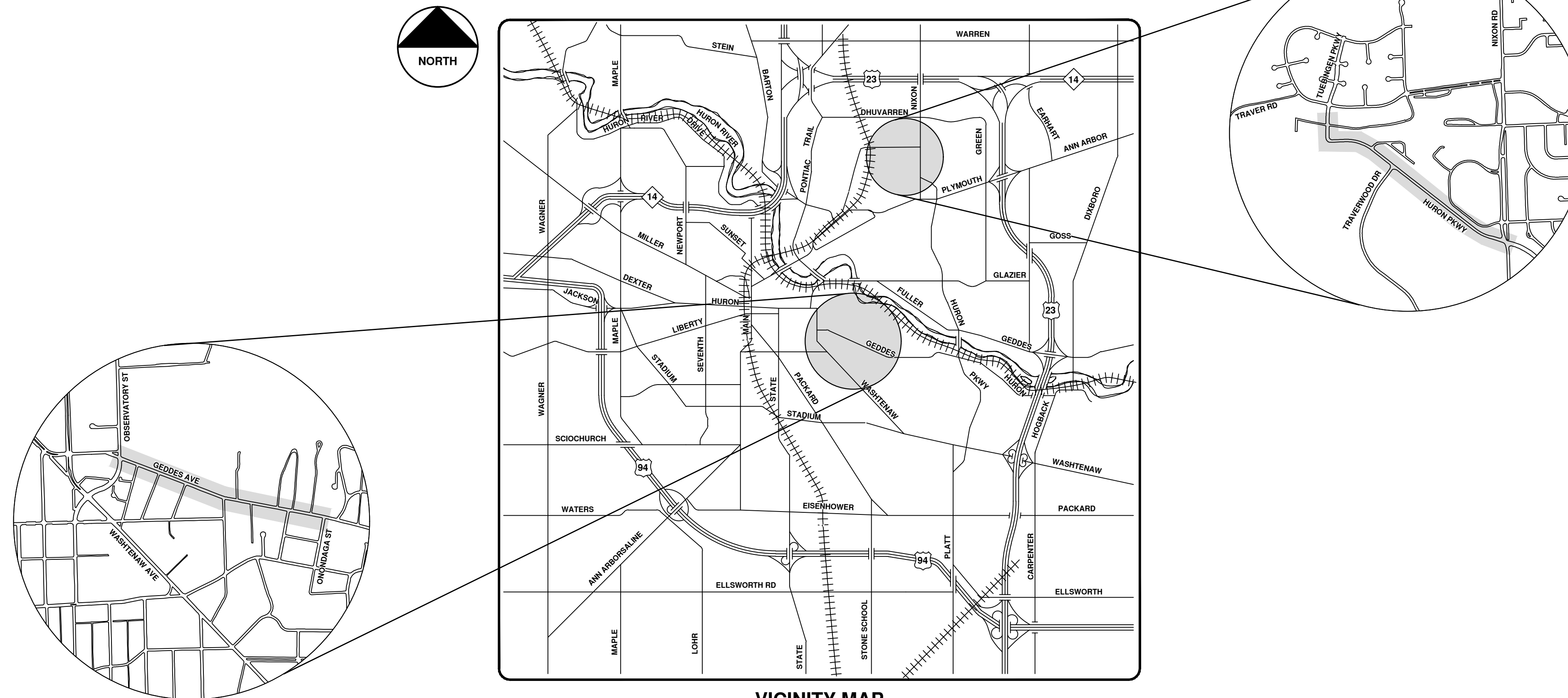




CITY OF ANN ARBOR ENGINEERING

GEDDES & HURON PARKWAY / TUEBINGEN RESURFACING PROJECT

RFP NO. 22-25, FILE NO. 2022-009



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.

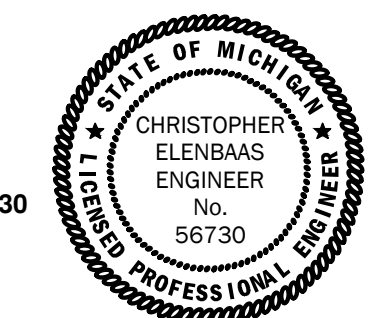
THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, IT'S DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE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

Sheet List Table

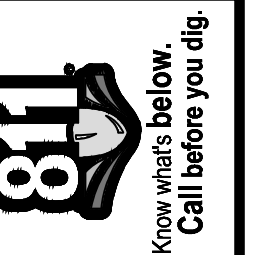
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| 5 | ROAD CROSS-SECTIONS - HURON PARKWAY |
| 6 | ROAD CROSS-SECTIONS - TUEBINGEN PARKWAY |
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| HURON PARKWAY - TUEBINGEN | |
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| 40 | EXISTING CONDITIONS REMOVALS STA 8+00 TO 18+00 |
| 41 | EXISTING CONDITIONS REMOVALS STA 18+00 TO 28+00 |
| 42 | EXISTING CONDITIONS REMOVALS STA 28+00 TO 38+00 |
| 43 | PAVING PLAN STA 0+00 TO 3+50 |
| 44 | PAVING PLAN STA 8+00 TO 18+00 |
| 45 | PAVING PLAN STA 18+00 TO 28+00 |
| 46 | PAVING PLAN STA 28+00 TO 38+00 |
| 47 | PAVING PLAN STA 28+00 TO 38+00 |
| 48 | DETAILED GRADING PLAN I |
| 49 | DETAILED GRADING PLAN II |
| 50 | PAVEMENT MARKING PLAN STA 0+00 TO 8+00 |
| 51 | PAVEMENT MARKING PLAN STA 8+00 TO 18+00 |
| 52 | PAVEMENT MARKING PLAN STA 18+00 TO 28+00 |
| 53 | PAVEMENT MARKING PLAN STA 28+00 TO 38+00 |

PREPARED UNDER THE SUPERVISION OF

Ch Ehl
CHRISTOPHER ELENBAAS, P.E. - MI LICENSE No. 56730
PROJECT MANAGER



04/08/2022
DATE



| REV. | DATE | DESCRIPTION |
|------|------------|----------------------|
| 3 | 04/08/2022 | BID SET |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |

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



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

COVER SHEET

SCALE
DRAWING No.
2022-009-1

SHEET No.
1 OF 53

C:\Civil 3D Projects\Ged-Hur\drawing\151604_G-002.dwg - _a2 standard bw.stb - Plot Date: 4/11/2022 9:00:21 AM

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 more than ten (10) feet of 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. Water main appurtenances, 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.
7. "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.
8. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
9. 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 Public Works Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
10. Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
11. 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".
12. All curb, sidewalk and driveway approach removals shall be approved by Engineer before the work is done.
13. The location of material stock piles and on-site staging areas to be approved by the Engineer. Soil erosion requirements shall apply to all staging areas.
14. For mainline HMA paving, the width of the mat for each pass of the paver shall be not less than 10.5' nor greater than 16', as directed by the Engineer. The Engineer will direct the layout of the longitudinal joints during construction.
15. All excavations required to construct sidewalk and sidewalk ramps shall be included in the contract pay item, "Grading, Sidewalk and Sidewalk Ramps."
16. Place 4 inches (minimum) thickness Granular Material Class II compacted to 95% of its own max. dry density under concrete sidewalk as shown on the details. This work shall be included in the contract item "Subbase, CIP."
17. Place 6 inches (minimum) Granular Material Class II compacted to 95% of its max. dry density under concrete driveway approaches, and 6 inches (minimum) dense-graded aggregate 21AA compacted to 98% of its max. dry density under HMA driveway approaches. This work shall be included in the respective contract pay items "Subbase, CIP" and "Aggregate Base, 6 inch, Modified."
18. A uniform coat(s) of curing compound shall be applied to new pavement according to the Standard Specifications and Special Provisions. The Contractor shall take care to prevent overspray when applying the compound. Application methods may vary depending on site specific conditions, but all methods used to prevent overspray of the curing compound shall be completely effective. Methods used shall be approved by the Engineer prior to use, however approval of a method does not guarantee success or acceptability. This work shall not be paid for separately, but shall be included in the contract pay items for HMA pavement.
19. The Contractor shall remove and stockpile on site at a location mutually agreed upon by the Contractor and Engineer any/ all existing City owned structure covers designated for salvage, and within two days of their removal deliver them to the W.R. Wheeler Service Center (4251 Stone School Rd, Ann Arbor, MI). Any structure covers not designated for salvage shall become the property of the Contractor and disposed of, as required, by the Contractor.
20. Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or types.
21. Where sewer pipes of different sizes or materials are joined, Fernco flexible couplings with stainless steel shear rings shall be used. All costs associated with the installation of these devices shall be included in the payment for the sewer.
22. Where sewer and water main are to be removed & replaced or added, all pipe shall be installed using the Trench Details detailed in the specifications or shown on Plans. Backfill for sewer and water construction shall be MDOT Granular Material, Class II, Modified.
23. 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"
24. 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.
25. When not under construction, the Contractor is to maintain crosswalk ramp access within the project influence with maintenance aggregate and horse mats to reduce tripping hazards at the ramp opening. This work shall be paid for as "Maintenance Gravel" and the horse mats shall be included in "General Conditions, Max ___" and not be paid for separately.

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

| PERMIT | ISSUING AUTHORITY |
|--|------------------------------------|
| LANE CLOSURE PERMIT* | CITY OF ANN ARBOR ENGINEERING |
| "NO PARKING" SIGNS PERMIT* | CITY OF ANN ARBOR ENGINEERING |
| GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT* | CITY OF ANN ARBOR CUSTOMER SERVICE |
| 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 |
|---------------------------------------|---------------------------------------|
| MDOT RIGHT-OF-WAY CONSTRUCTION PERMIT | MICHIGAN DEPARTMENT OF TRANSPORTATION |

CONTACT INFORMATION

| PUBLIC UTILITIES | OWNER | CONTACT |
|-----------------------------------|--|-------------------------------------|
| WATER | | |
| SANITARY | | |
| STORM | CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108 | (734) 794-6350 |
| FORESTRY | | |
| SIGNS SIGNALS STREET LIGHTS | | (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 | ANTHONY IGNASIAK (734) 397-4447 |
| CABLE | COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034 | RON SUTHERLAND (313) 999-8300 |
| PHONE | AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103 | JEFF LEHMAN SR (734) 996-5334 |
| FIBER OPTIC | MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082 | DEAN BOYERS (972) 729-6016 |
| FIBER OPTICS | WINDSTREAM 1295 S LINDEN ROAD, SUITE B FLINT, MI 48532 | GREG SERICH (810) 244-3500 |
| STREET LIGHTING | DTE ENERGY 8001 HAGGERTY ROAD BELLEVILLE, MI 48111 | LANCE ALLEY (734) 397-4188 |


PROJECT NAME BENCHMARKS

| BM # | ELEV | DESCRIPTION |
|------|--------|---|
| 1 | 903.83 | STATION 2001 BRASS DISC SET IN CONC NE CORNER OF ISLAND AT OBSERVATORY AND GEDDES AVE |
| 2 | 897.49 | BOLT ON LP N SIDE OF GEDDES AVE 100'± E OF LINDEN ST |
| 3 | 917.83 | RR SPIKE S SIDE PP N SIDE OF GEDDES AVE 20'± W OF OXFORD RD |
| 4 | 913.74 | SET BENCH TIE S SIDE PP N SIDE OF GEDDES AVE 15'± E OF HARVARD PL |
| 5 | 910.91 | SET BENCH TIE N SIDE PP S SIDE OF GEDDES AVE 20'± W OF HIGHLAND RD |
| 6 | 868.03 | BRASS DISC SET IN CONC AT SW CORNER OF GEDDES AVE AND HILL ST |
| 7 | 923.65 | SET ON TOP ARROW OF HYDRANT N OF HURON PRKY AND N LESLIE CIR |
| 8 | 899.70 | SET ON STEAMER VALVE HYDRANT N OFE CORNER OF HURON PRKY AND TUEBINGEN |
| 9 | 904.02 | SET ON STEAMER VALVE HYDRANT N OF HURON PRKY DIRECTLY N OF 2900 HURON PRKY |



Know what's below.
Call before you dig.

| | | | | | | | | | |
|--|------------|-----------------|----------------------|-----|-----|-----|-----|-----|-----|
| | | | | | | | | | |
| | C/E | C/E | C/E | C/E | C/E | C/E | C/E | C/E | C/E |
| | BWA | BWA | BWA | BWA | BWA | BWA | BWA | BWA | BWA |
| | 04/08/2022 | 03/16/2022 | 02/07/2022 | | | | | | |
| | BID SET | 70% DESIGN PLAN | 30% PRELIMINARY PLAN | | | | | | |
| | 3 | 2 | 1 | | | | | | |
| | REV. | | | | | | | | |



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT
 GENERAL
 STANDARD NOTES

SCALE: NTS

DRAWING No. 2022-009-2

SHEET No.

2 OF 53

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

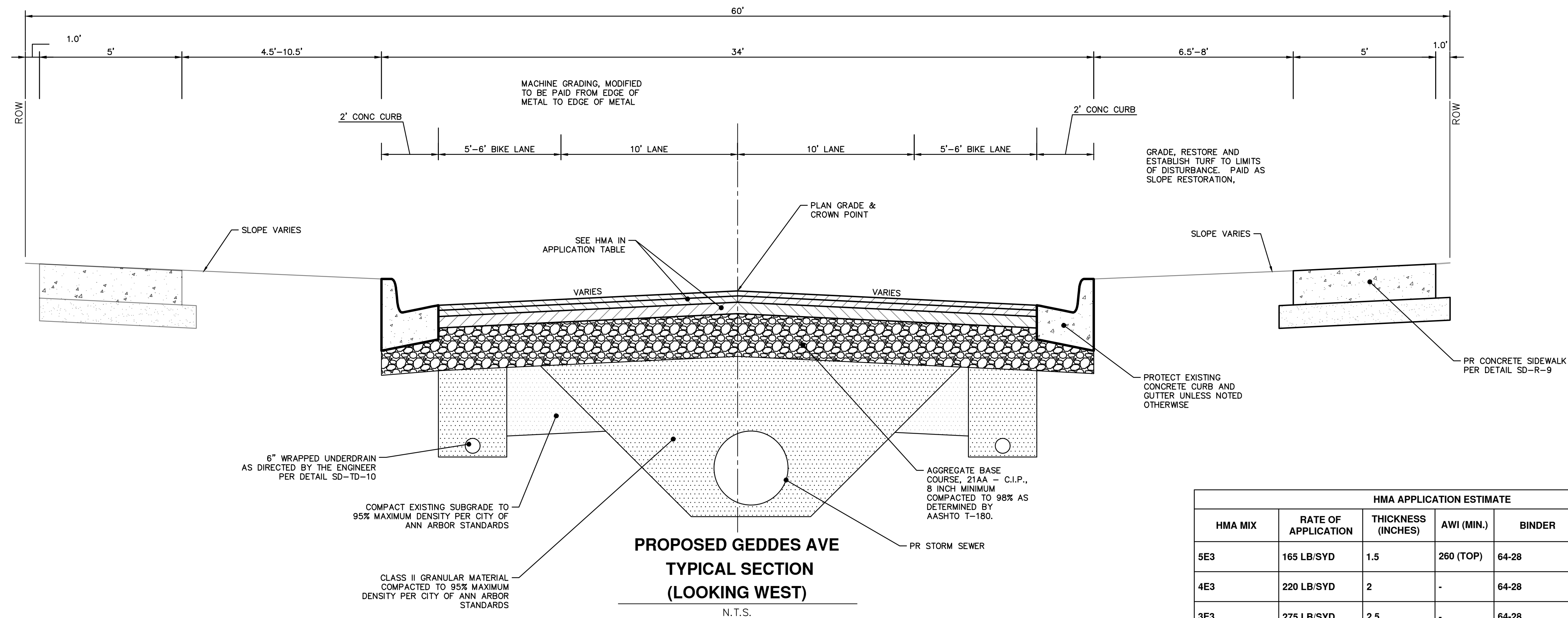
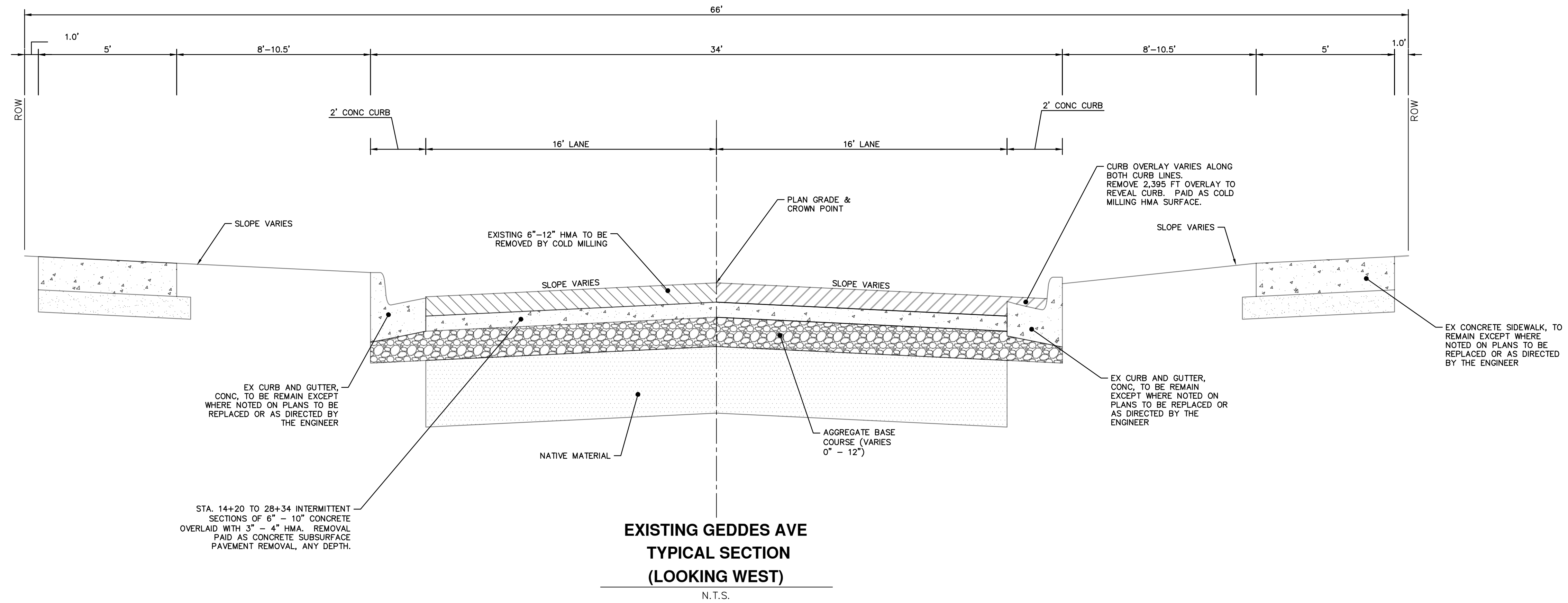
- HYDRANT (PLAN)
- WATER GATE WELL
- REDUCER
- WATER GATE VALVE
- WATER STOP BOX
- WATER VAULT
- INLET
- DOUBLE INLET
- INLET JUNCTION CHAMBER
- ROUND CATCH BASIN
- STORM MANHOLE
- DRAIN ARROW
- FLARED END SECTION
- SANITARY MANHOLE
- CLEAN-OUT
- SIGN
- PUSH BUTTON
- HAND HOLE
- WATER MAIN
- STORM SEWER
- 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

Know what's below.
Call before you dig.

| | | | | | | | | | |
|---|------------|-----------------|----------------------|------|-----|-----|-----|-----|-----|
| | | | | | | | | | |
| | C/E | C/E | C/E | C/E | C/E | C/E | C/E | C/E | C/E |
| | BWA | BWA | BWA | BWA | BWA | BWA | BWA | BWA | BWA |
| | 04/08/2022 | 03/16/2022 | 02/07/2022 | DATE | | | | | |
| | BID SET | 70% DESIGN PLAN | 30% PRELIMINARY PLAN | REV. | | | | | |
| | | | | | | | | | |
| <p>CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING</p> <p>GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT</p> <p>GENERAL LEGEND</p> | | | | | | | | | |
| <p>SCALE: NTS</p> <p>DRAWING No. 2022-009-3</p> <p>SHEET No. 3 OF 53</p> | | | | | | | | | |

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| HMA APPLICATION ESTIMATE | | | | | |
|--------------------------|---------------------|--------------------|------------|--------|-----------------------------|
| HMA MIX | RATE OF APPLICATION | THICKNESS (INCHES) | AWI (MIN.) | BINDER | LOCATION/NOTES |
| 5E3 | 165 LB/SYD | 1.5 | 260 (TOP) | 64-28 | TOP COURSE |
| 4E3 | 220 LB/SYD | 2 | - | 64-28 | LEVELING COURSE |
| 3E3 | 275 LB/SYD | 2.5 | - | 64-28 | BASE COURSE |
| Bond Coat SS-1h | 0.05 - 0.15 GAL/SYD | - | - | - | INCLUDE IN COST OF HMA ITEM |

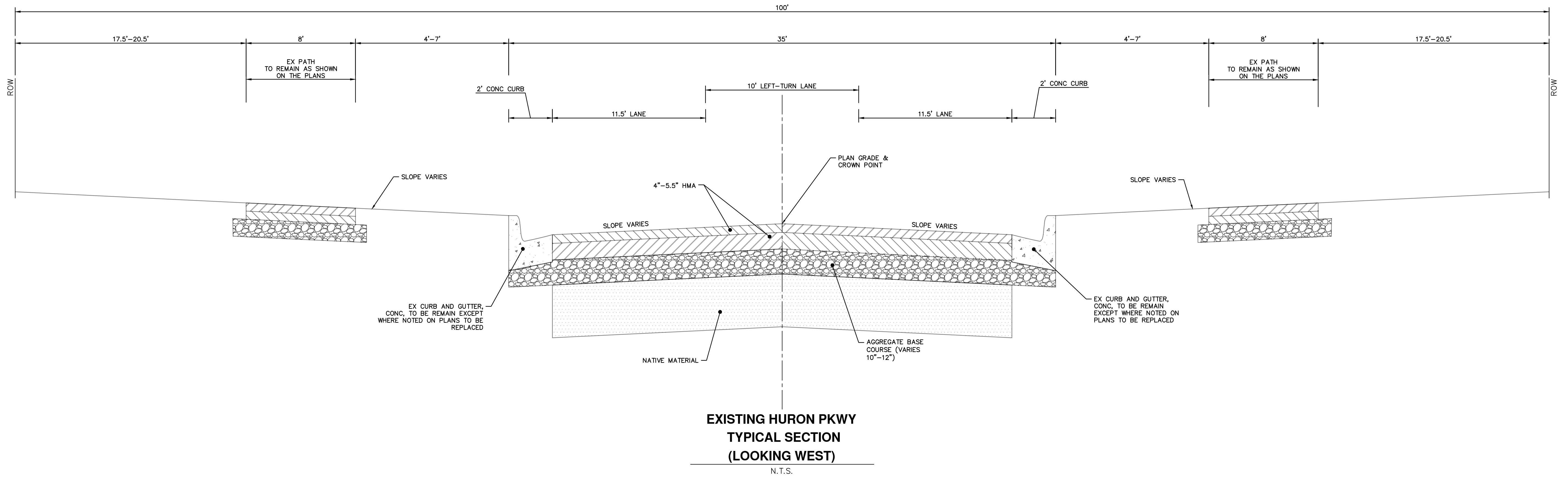


| REV. | DATE | DESCRIPTION |
|------|------------|----------------------|
| 3 | 04/08/2022 | BID SET |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |

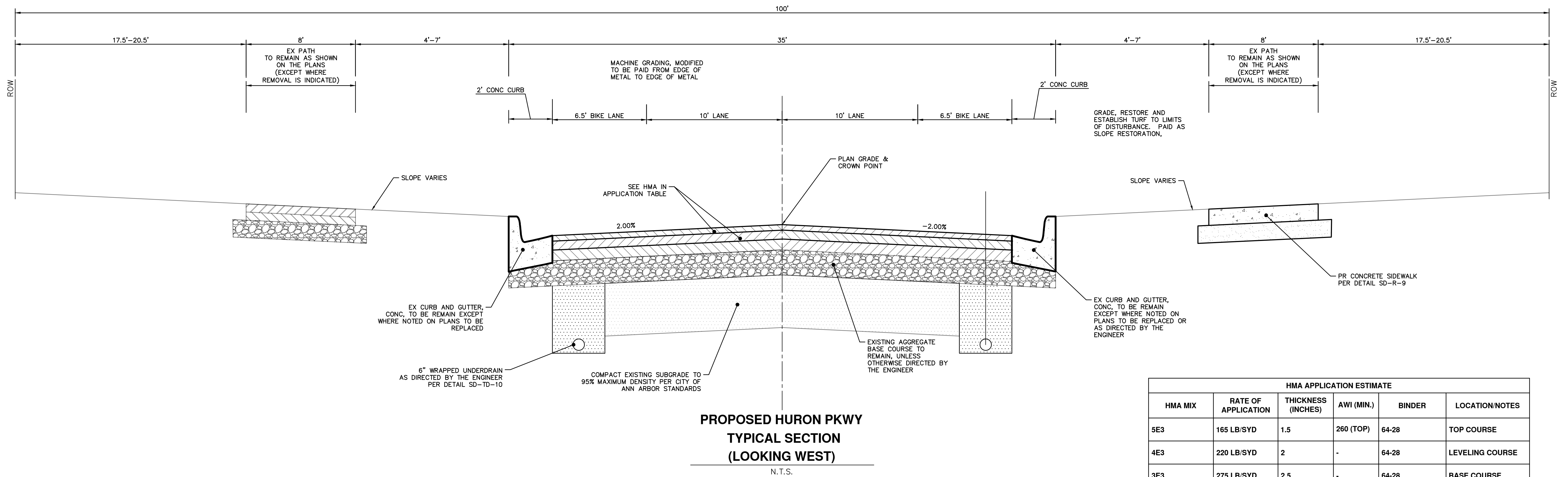


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDDESSES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT
 GENERAL
 ROAD CROSS-SECTIONS - GEDDESSES AVE.
 SCALE: NTS
 DRAWING No. 2022-009-4
 SHEET No.

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**EXISTING HURON PKWY
TYPICAL SECTION
(LOOKING WEST)**
N.T.S.



**PROPOSED HURON PKWY
TYPICAL SECTION
(LOOKING WEST)**
N.T.S.

| HMA APPLICATION ESTIMATE | | | | | |
|--------------------------|---------------------|--------------------|------------|--------|-----------------------------|
| HMA MIX | RATE OF APPLICATION | THICKNESS (INCHES) | AWI (MIN.) | BINDER | LOCATION/NOTES |
| 5E3 | 165 LB/SYD | 1.5 | 260 (TOP) | 64-28 | TOP COURSE |
| 4E3 | 220 LB/SYD | 2 | - | 64-28 | LEVELING COURSE |
| 3E3 | 275 LB/SYD | 2.5 | - | 64-28 | BASE COURSE |
| Bond Coat SS-1h | 0.05 - 0.15 GAL/SYD | - | - | - | INCLUDE IN COST OF HMA ITEM |

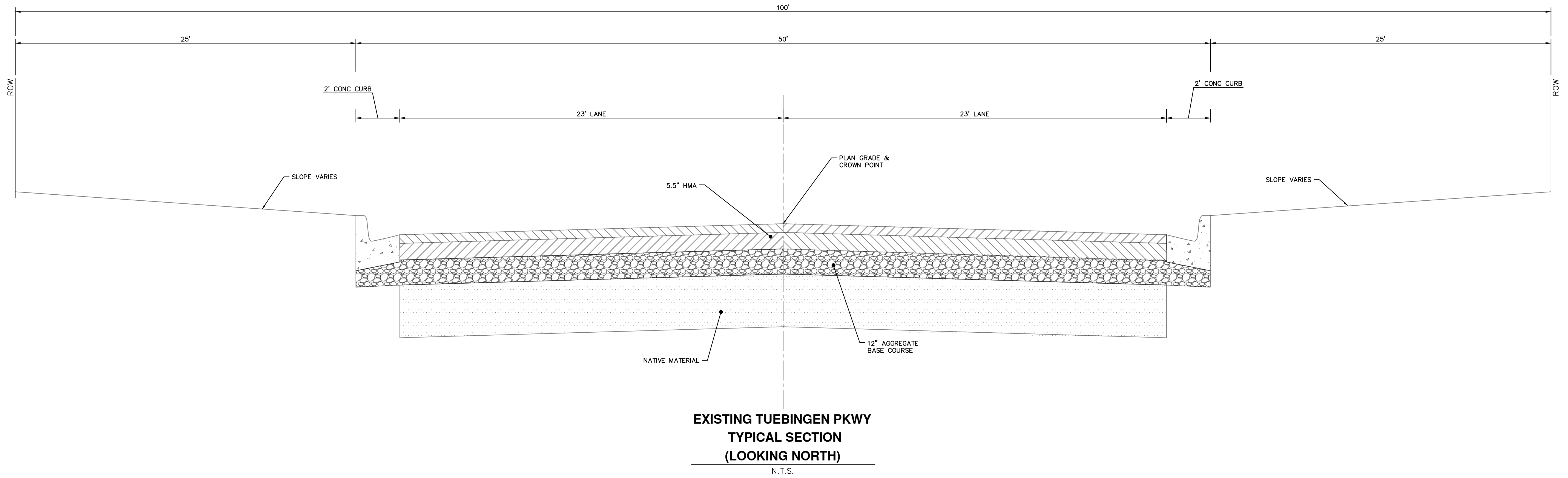


| | | | | |
|--|----------------------|------------|-----|-------------|
| CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-0647 734-794-6410 www.a2gov.org | BID SET | 04/08/2022 | BWA | C/E |
| | 70% DESIGN PLAN | 03/16/2022 | BWA | C/E |
| | 30% PRELIMINARY PLAN | 02/07/2022 | BWA | C/E |
| | | | | CHECKED |
| | | | | DATE |
| | | | | DESCRIPTION |
| | | | | REV. |

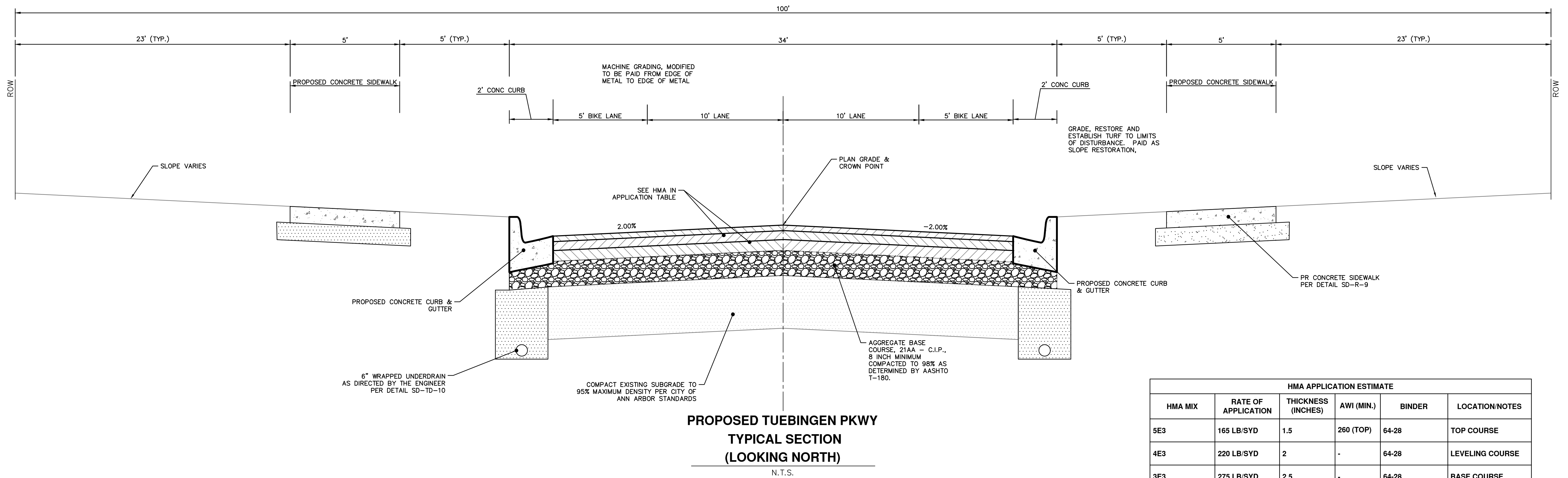


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT
 GENERAL
 ROAD CROSS-SECTIONS - HURON PARKWAY
 SCALE: NTS
 DRAWING No. 2022-008-5
 SHEET No. 5 OF 53

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**EXISTING TUEBINGEN PKWY
TYPICAL SECTION
(LOOKING NORTH)**
N.T.S.



**PROPOSED TUEBINGEN PKWY
TYPICAL SECTION
(LOOKING NORTH)**
N.T.S.

| HMA APPLICATION ESTIMATE | | | | | |
|--------------------------|---------------------|--------------------|------------|--------|-----------------------------|
| HMA MIX | RATE OF APPLICATION | THICKNESS (INCHES) | AWI (MIN.) | BINDER | LOCATION/NOTES |
| 5E3 | 165 LB/SYD | 1.5 | 260 (TOP) | 64-28 | TOP COURSE |
| 4E3 | 220 LB/SYD | 2 | - | 64-28 | LEVELING COURSE |
| 3E3 | 275 LB/SYD | 2.5 | - | 64-28 | BASE COURSE |
| Bond Coat SS-1h | 0.05 - 0.15 GAL/SYD | - | - | - | INCLUDE IN COST OF HMA ITEM |



| REV. | DATE | DESCRIPTION |
|------|------------|----------------------|
| 3 | 04/08/2022 | BID SET |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |

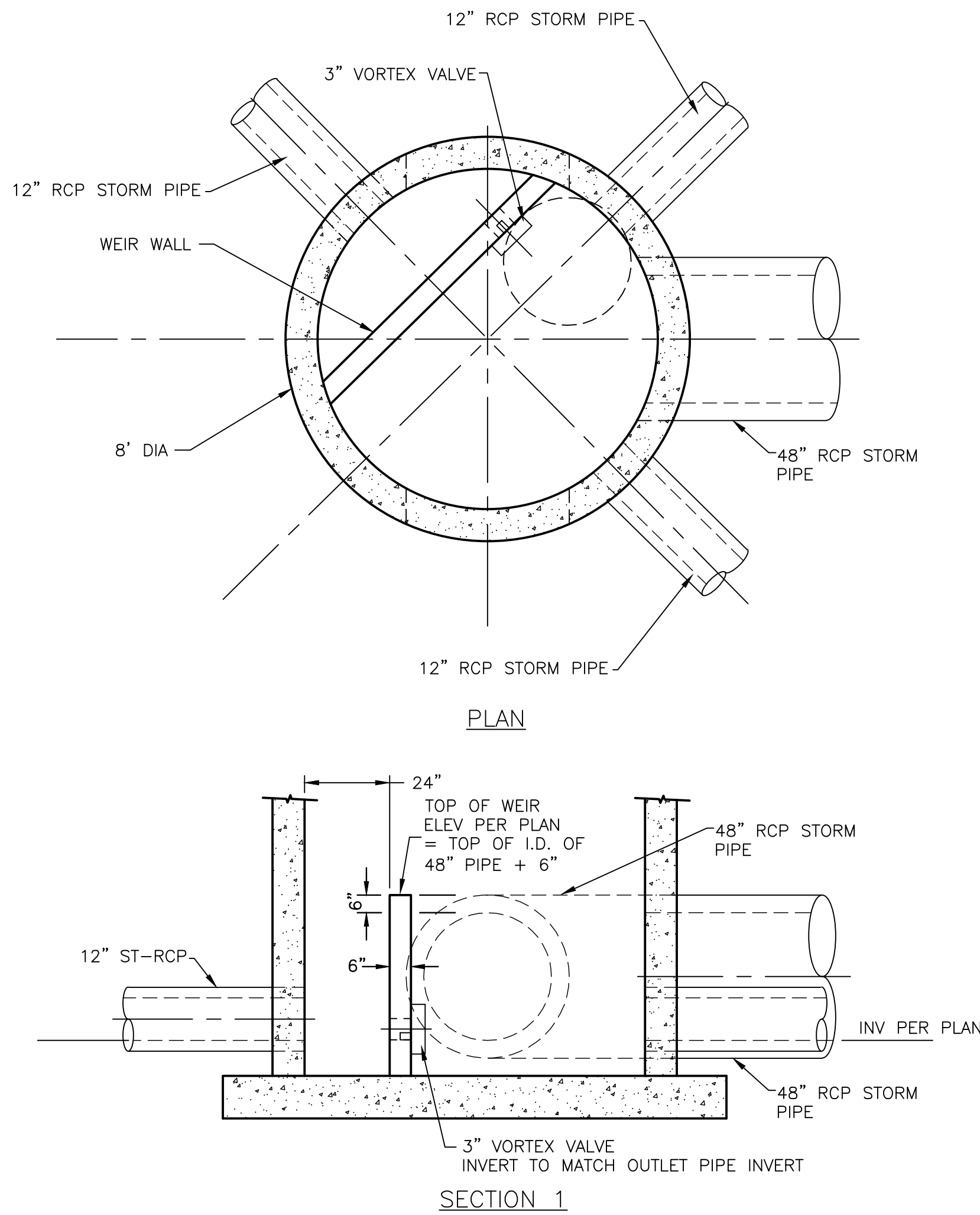
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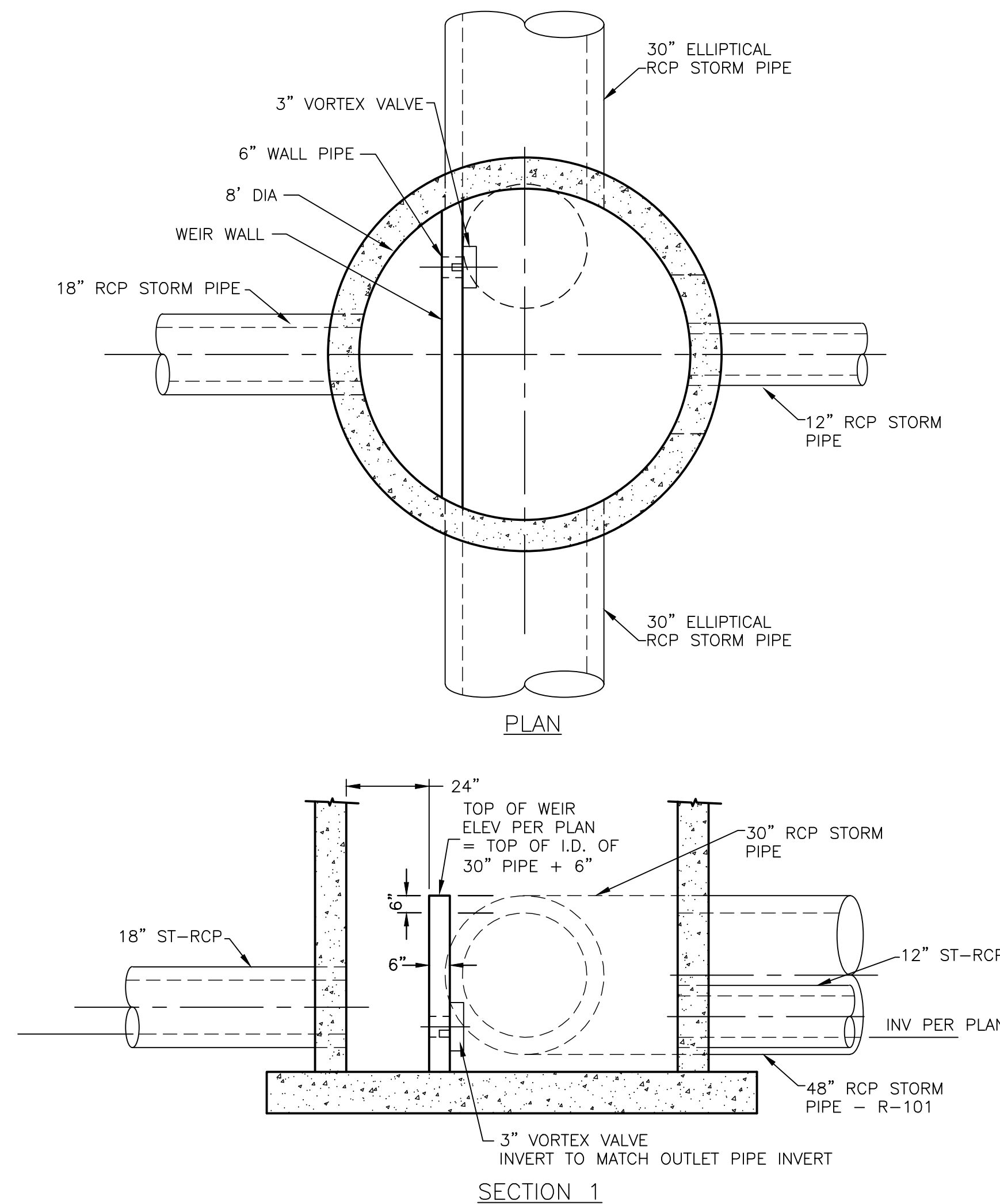
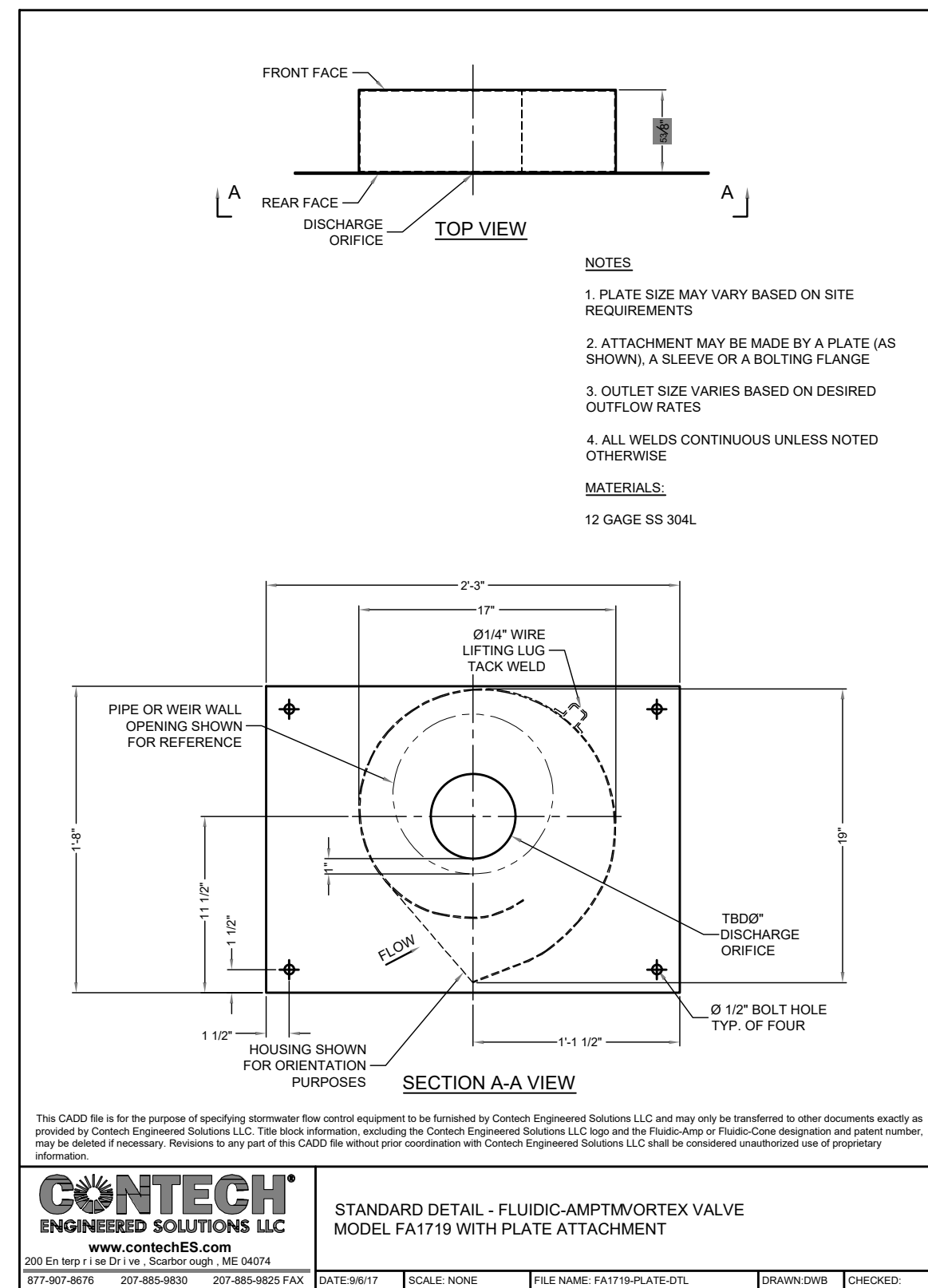
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT
GENERAL
ROAD CROSS-SECTIONS - TUEBINGEN PARKWAY

SCALE: NTS
DRAWING No. 2022-009-6
SHEET No.

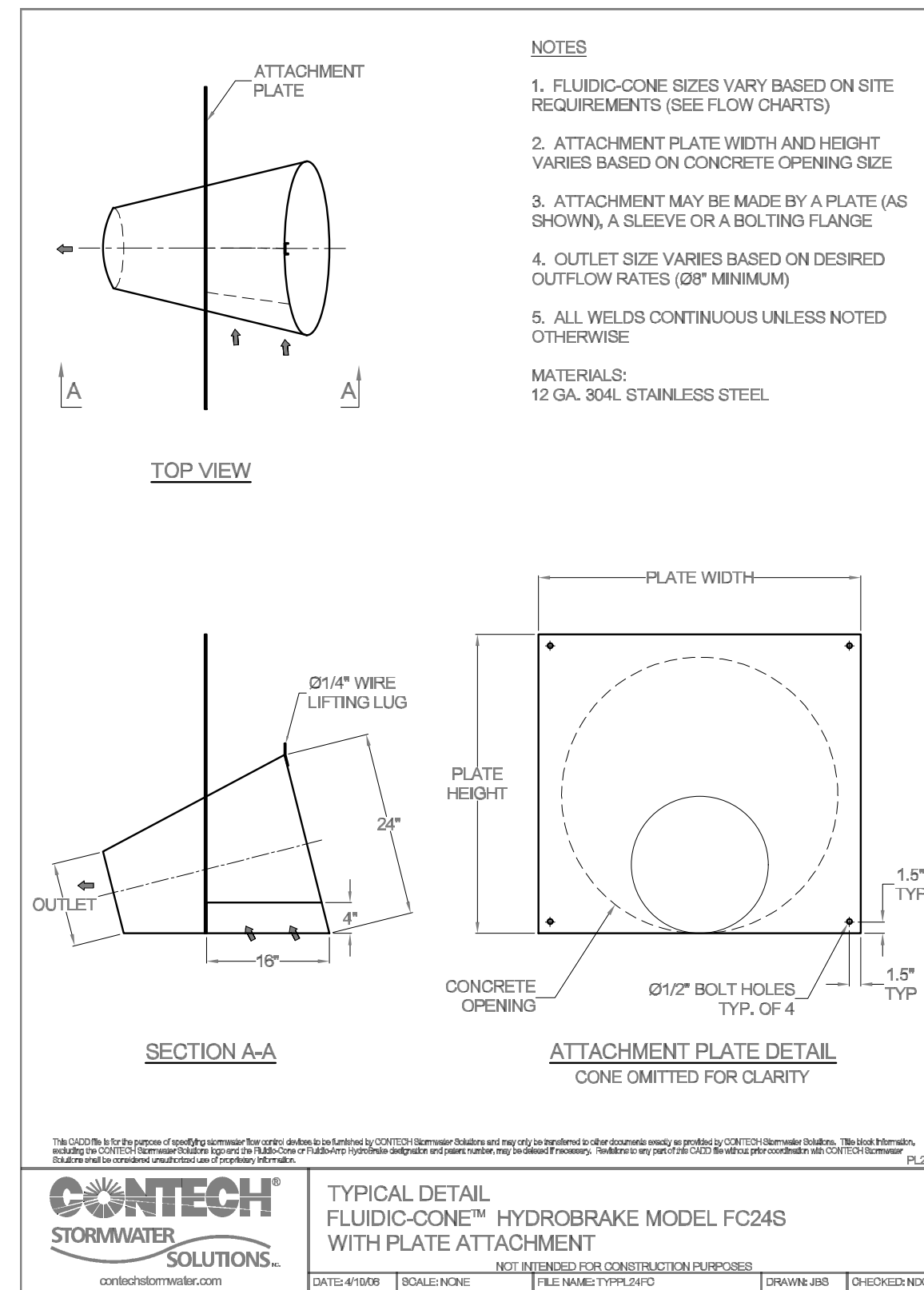
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UNDERGROUND STORMWATER STORAGE CONTROL STRUCTURE R-10

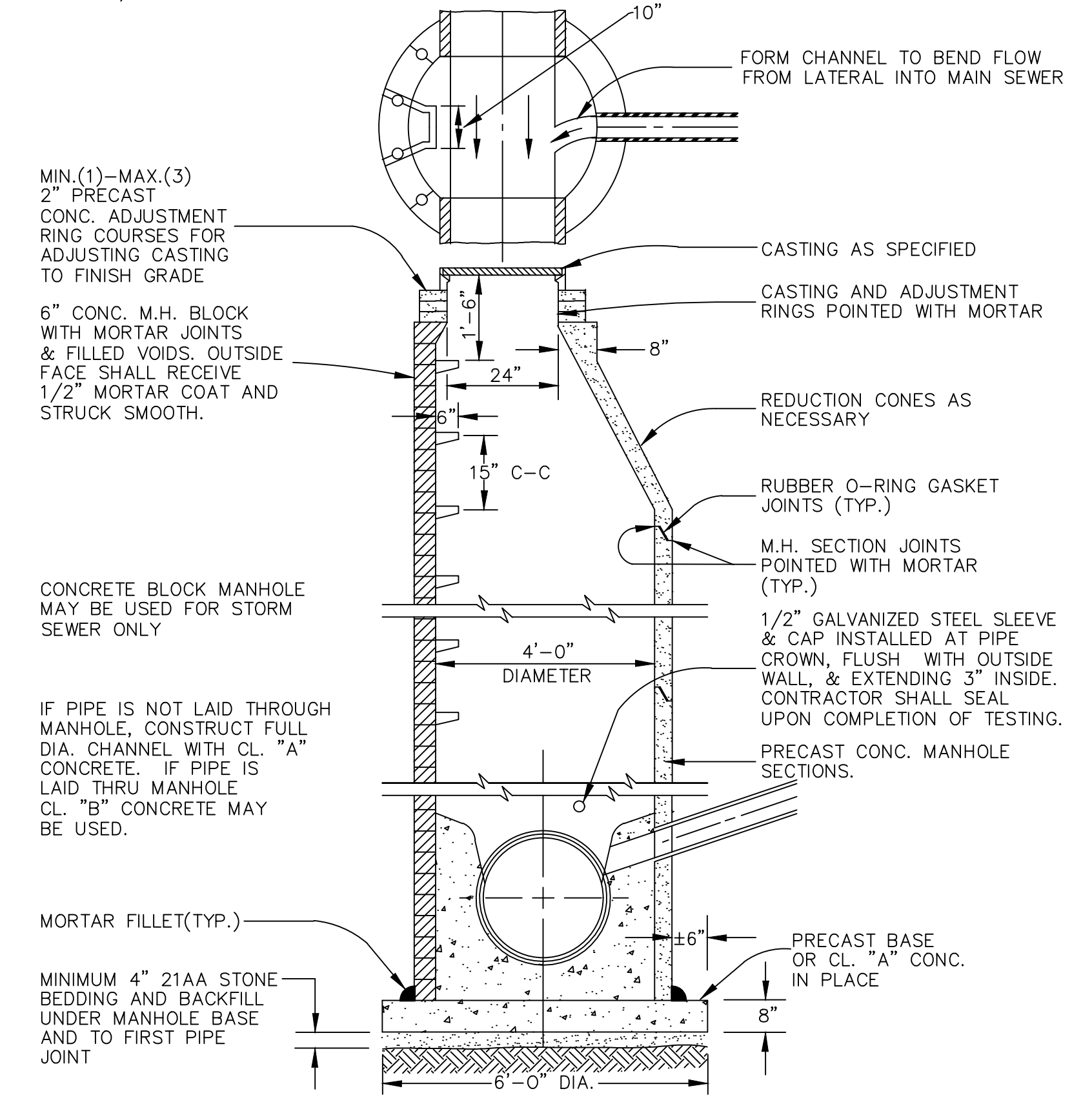


UNDERGROUND STORMWATER STORAGE CONTROL STRUCTURE R-1



NOTE:

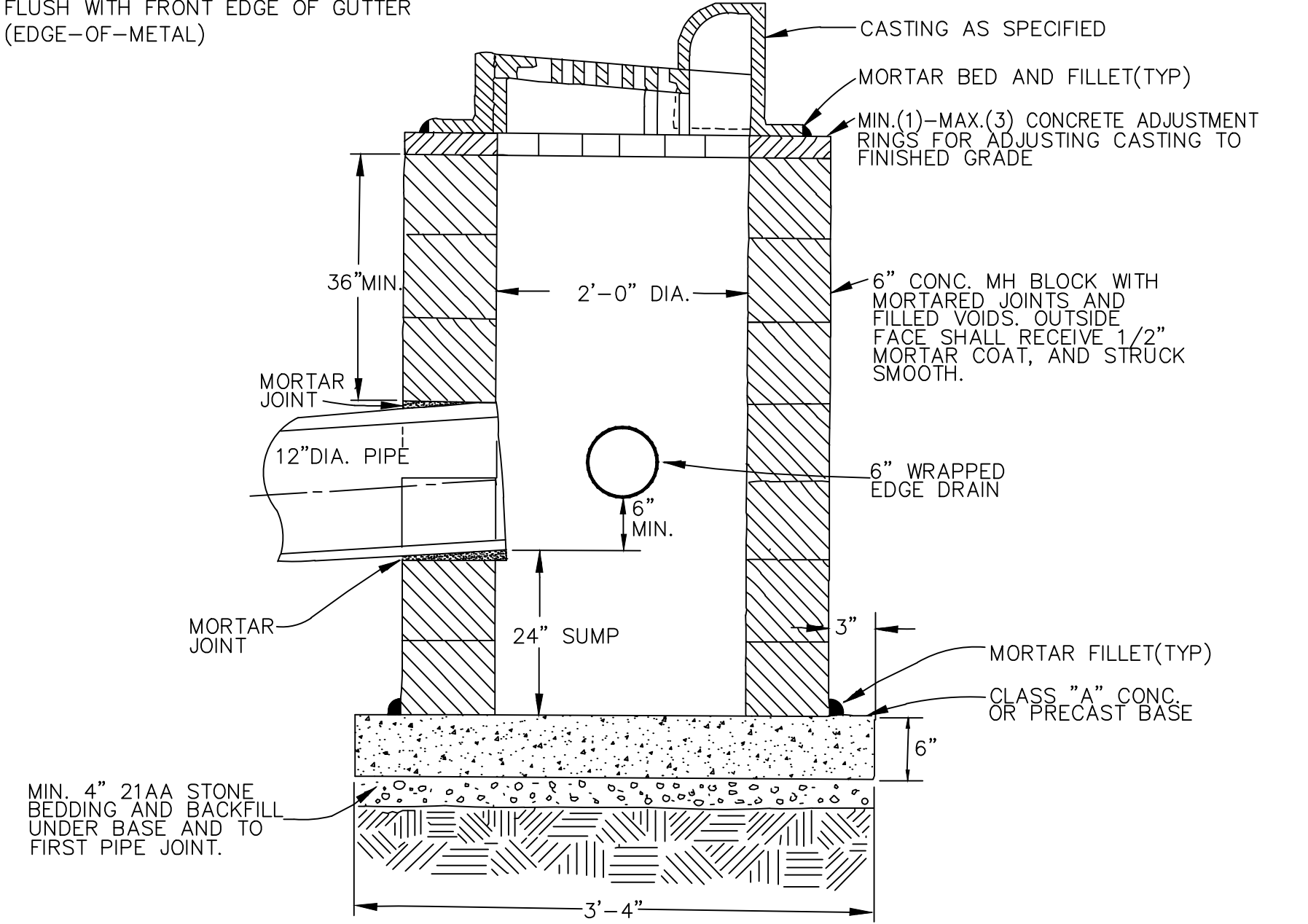
1. ALL SANITARY MANHOLES SHALL BE PRECAST CONC.
2. ALL MANHOLES MUST HAVE ECCENTRIC CONES—BOTH STORM AND SANITARY
3. ALL SANITARY SEWER OPENINGS SHALL BE PRECAST WITH RUBBER BOOT CONNECTIONS.
4. CONCRETE BLOCK MANHOLE MAY BE USED FOR STORM SEWER ONLY, AND SHALL BE ECCENTRIC



STANDARD MANHOLE (TYPE 1) DETAIL FOR 8" TO 30" SEWERS

NOTE:

1. MAY BE USED WITH ONLY SINGLE OUTLET PIPE, AND NO INLET PIPE
2. FRONT EDGE OF INLET CASTING SHALL BE FLUSH WITH FRONT EDGE OF GUTTER (EDGE-OF-METAL)



SINGLE INLET STRUCTURE DETAIL



| DATE | DESCRIPTION | BY | CHKD |
|------------|-------------|-------|---------|
| 04/08/2022 | BWA | BWA | C/E |
| 03/16/2022 | BWA | BWA | C/E |
| 02/07/2022 | BWA | BWA | C/E |
| | DATE | DRAWN | CHECKED |

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GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT
CONSTRUCTION DETAILS
STORM SEWER DETAILS
SCALE: NTS
DRAWING NO.: 2022-009-7
SHEET No. 7 OF 53

MINIMUM STANDARDS

THE MDOT GRADE PI OR P-NC 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.

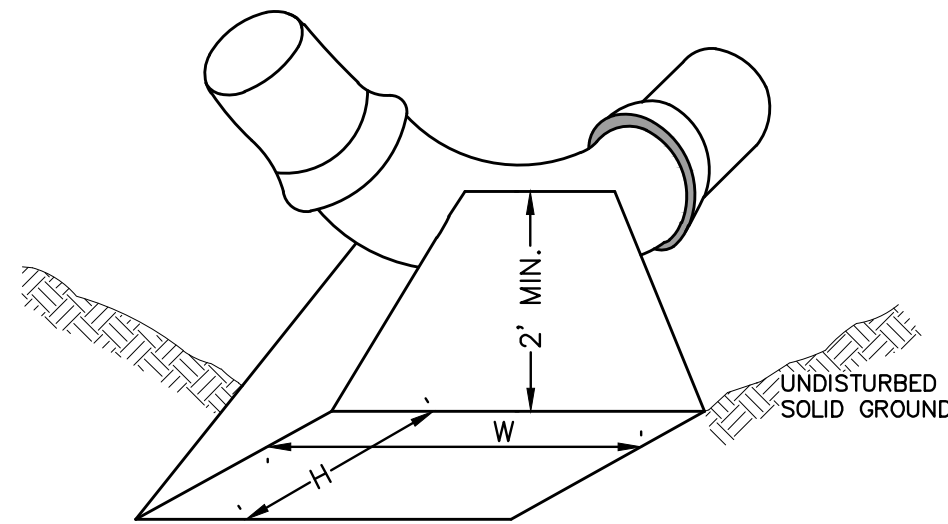
THE DIMENSIONS OF THE THRUST BLOCK AT THE FACE OF THE UNDISTURBED SOLID GROUND SHALL BE AS SHOWN IN THE TABLE BELOW.

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.

| FITTINGS I.D. | PLUG TEE CROSS | | BENDS | | | | | | | | HYDRANT | |
|---------------|----------------|-----|-------|-----|-----|-----|------|-----|------|-----|---------|-----|
| | W | H | 90° | | 45° | | 22½° | | 11¼° | | W | H |
| 4 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.5 |
| 6 | 2.0 | 1.5 | 2.0 | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.5 |
| 8 | 2.5 | 2.0 | 3.5 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | 2.5 | 2.0 |
| 12 | 3.5 | 3.0 | 5.5 | 3.0 | 3.5 | 2.5 | 2.0 | 2.0 | 2.0 | 1.0 | | |
| 16 | 6.0 | 3.5 | 6.0 | 4.0 | 5.0 | 3.0 | 3.5 | 2.5 | 2.0 | 2.0 | | |

FOR FITTING SIZES LARGER THAN 16", THRUST BLOCK DIMENSIONS SHALL BE AS SPECIFIED BY ENGINEER.

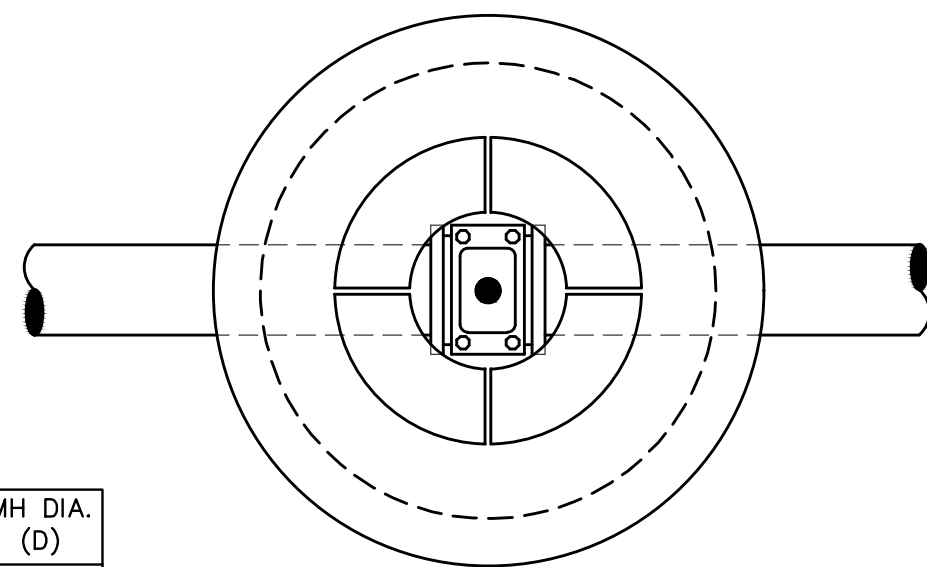
W = WIDTH IN FEET
H = HEIGHT IN FEET



NOTE:

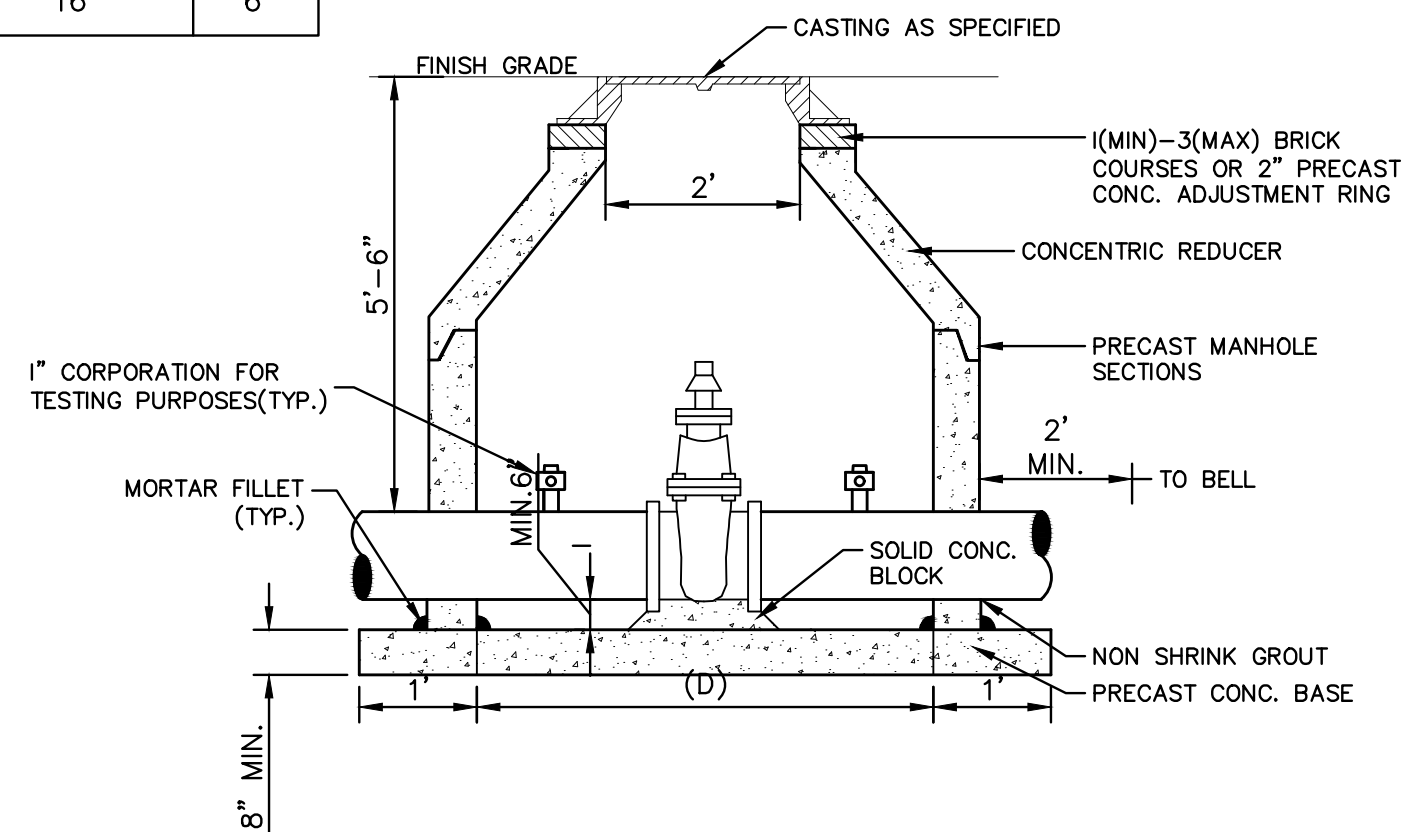
THESE ARE MINIMUM STANDARDS. WHERE SOIL CONDITIONS DICTATE, ADJUSTMENTS IN SIZE SHALL BE MADE AS DIRECTED BY THE PUBLIC SERVICES AREA ADMINISTRATOR.

THRUST BLOCK SD-W-2



TOP VIEW

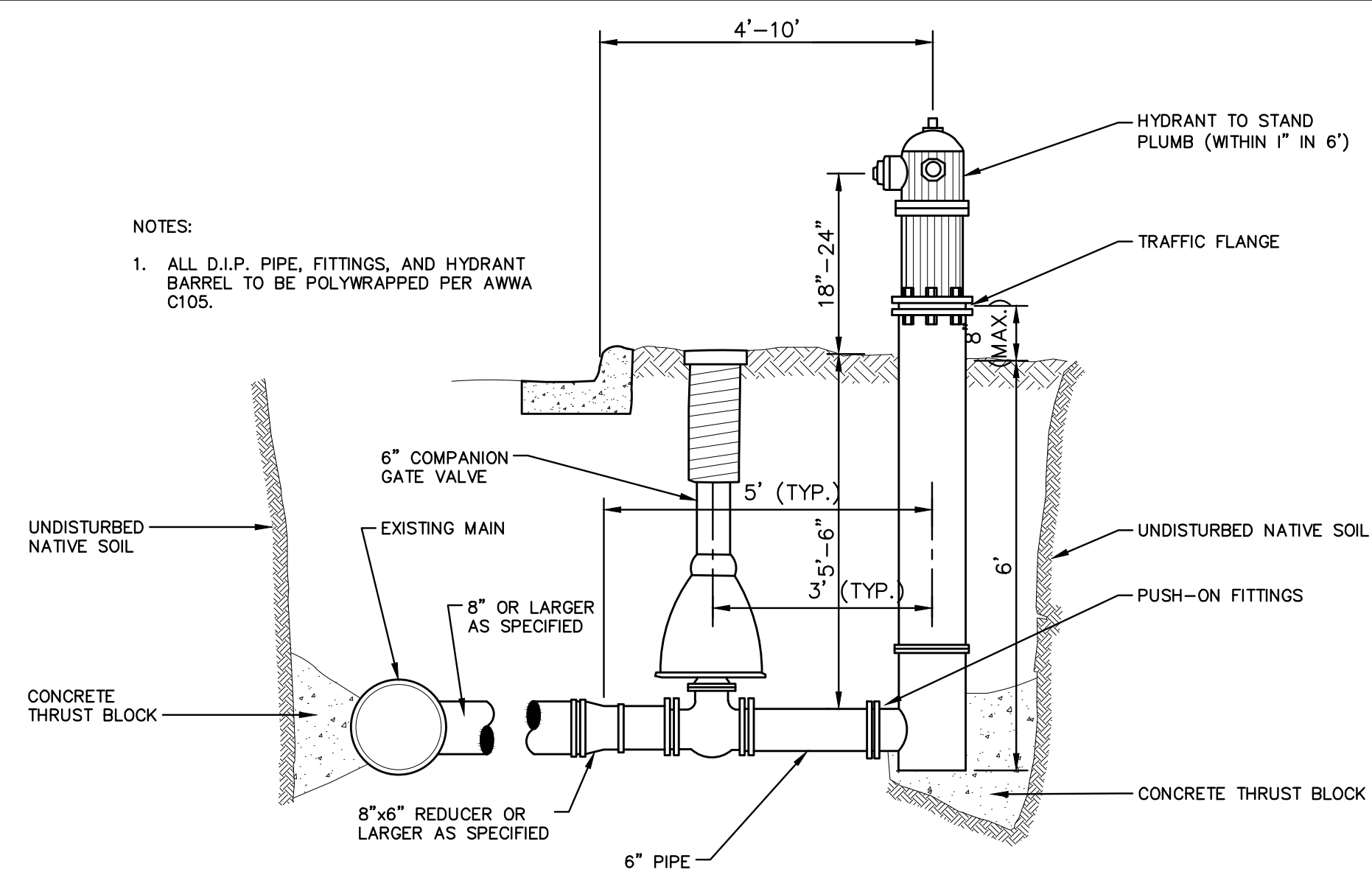
| PIPE SIZE | MH DIA. (D) |
|-------------|-------------|
| 12" OR LESS | 5' |
| 16" | 6' |



NOTES:

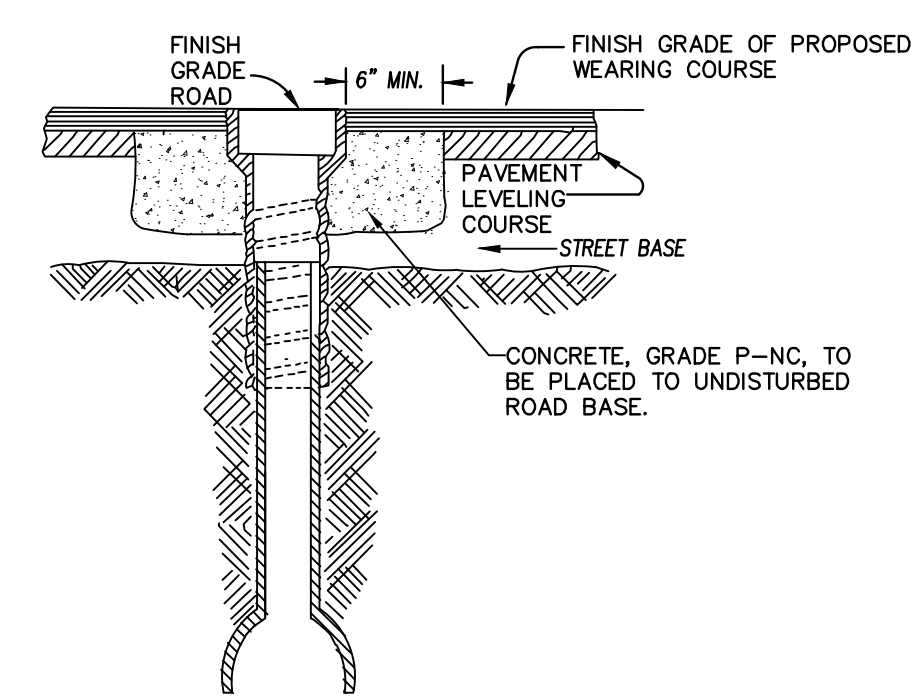
1. ALL LIFT HOLES AND JOINTS SHALL BE MORTARED BOTH INSIDE AND OUTSIDE
2. ALL JOINTS SHALL BE MADE WATER TIGHT WITH RUBBER GASKET JOINTS
3. NO STEPS ARE PERMITTED
4. MANHOLE SECTIONS SHALL MEET ASTM C-478

GATE WELL FOR MAIN 16" & SMALLER SD-W-3



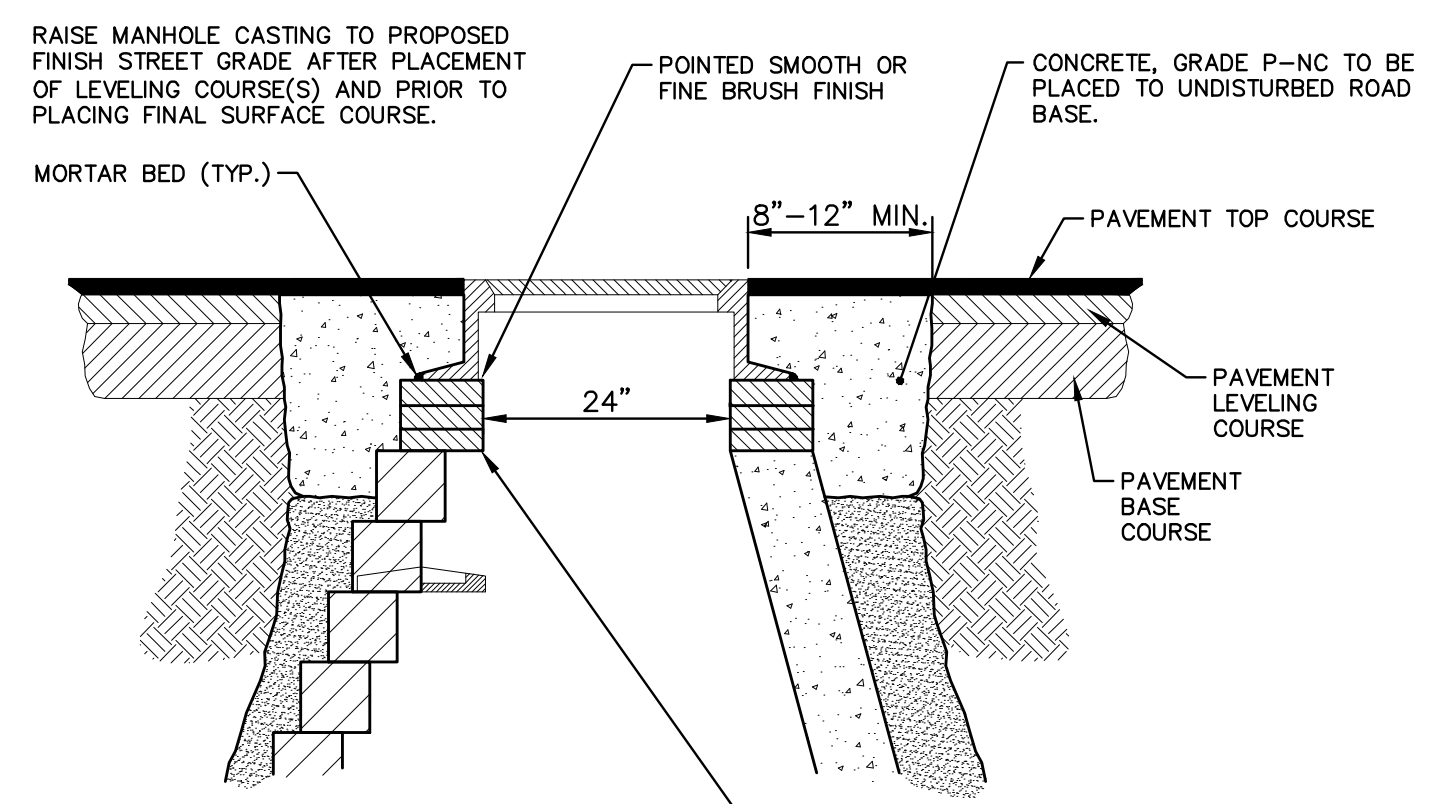
- NOTES:
1. ALL D.I.P. PIPE, FITTINGS, AND HYDRANT BARREL TO BE POLYWRAPPED PER AWWA C105.

FIRE HYDRANT ASSEMBLY



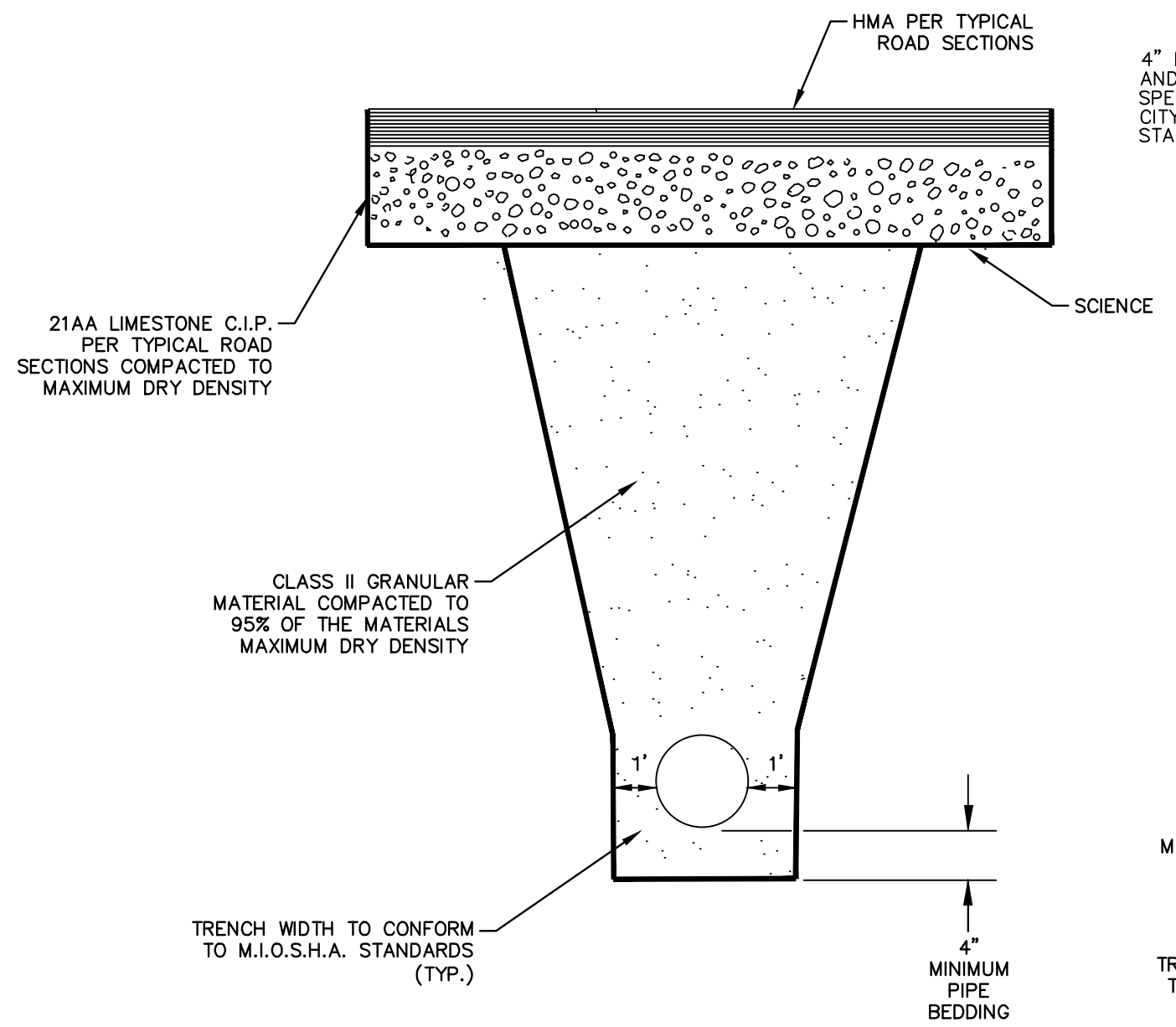
NOTE: RAISE CASTING TO PROPOSED FINISH STREET GRADE AFTER PLACEMENT OF LEVELING COURSE(S) AND PRIOR TO PLACING FINAL SURFACE COURSE

WATER VALVE BOX ADJUSTMENT

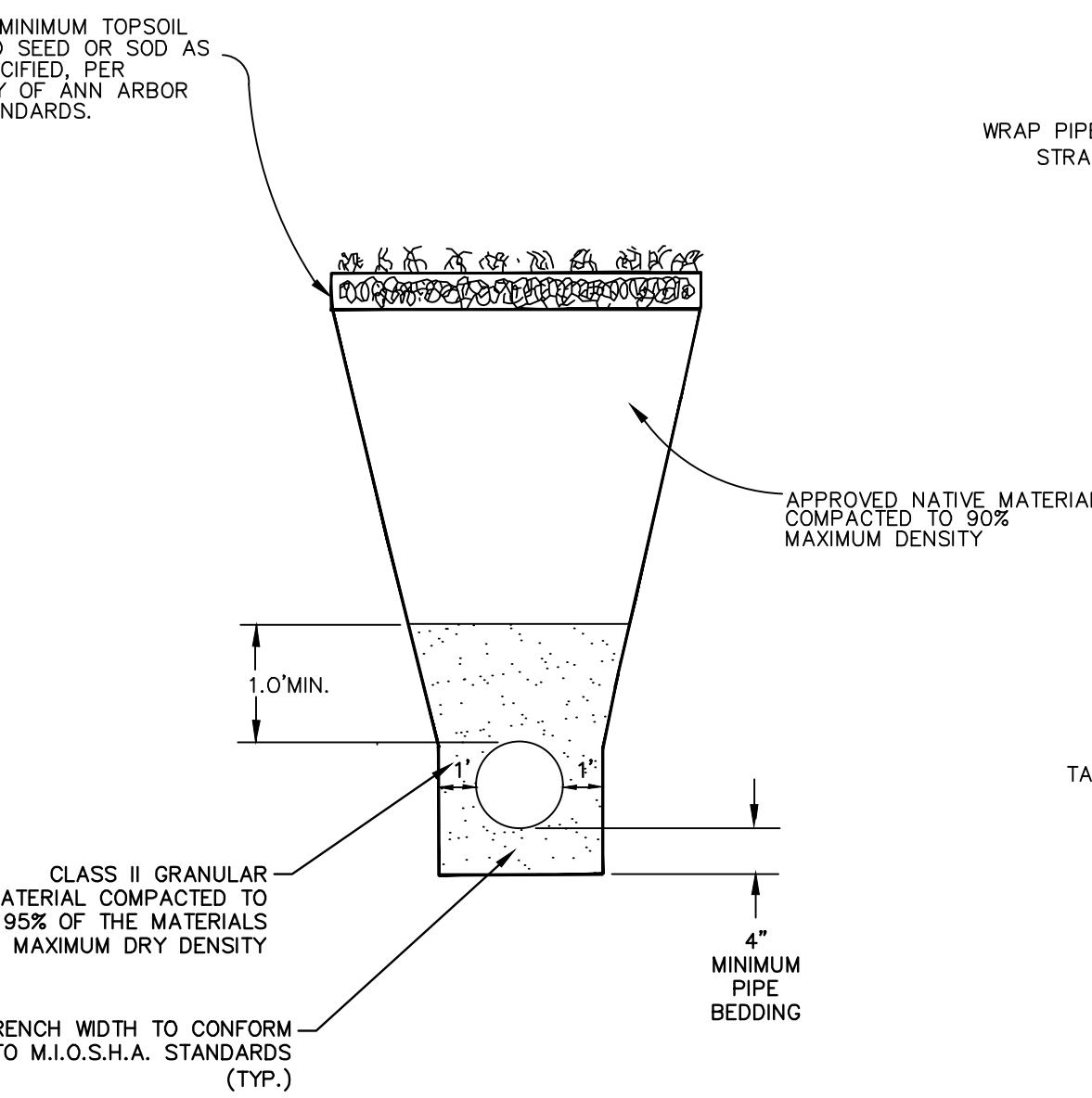


NOTE:
IF MANHOLE WILL BE PLACED IN GRAVEL ROAD, CASTING TO BE SET 6" TO 8" BELOW ROADWAY GRADE. ALL CONSTRUCTION METHODS SHALL REMAIN AS SHOWN ABOVE.
ADDITIONAL REPAIRS NECESSARY BEYOND 15" BELOW GRADE TO BE PAID FOR AS "ADDITIONAL DEPTH STRUCTURE ADJUST/REPAIR"

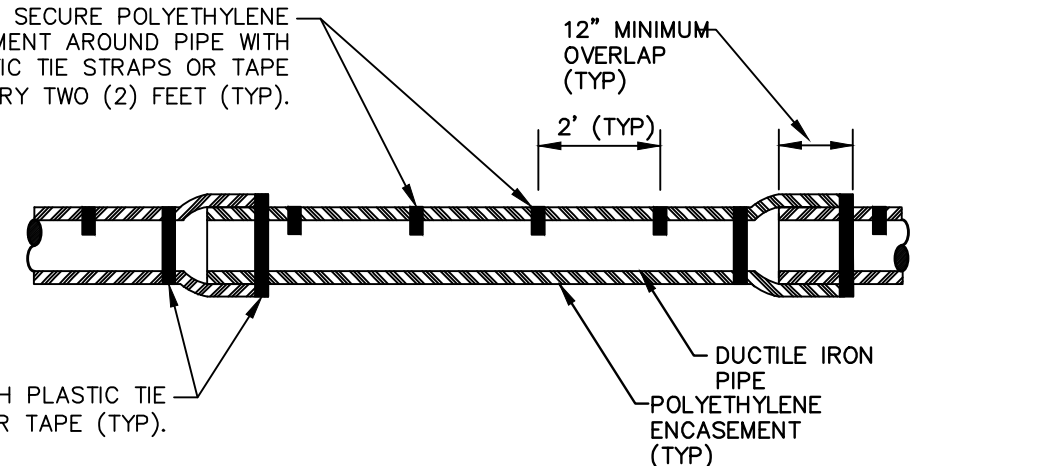
MANHOLE CASTING ADJUSTMENT SD-GU-6



UTILITY TRENCH - TYPE I



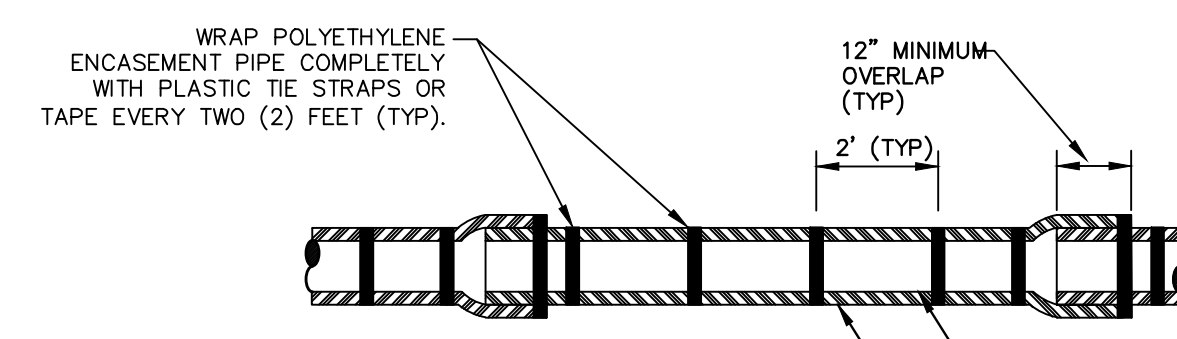
UTILITY TRENCH - TYPE V



NOTE: FOLLOW ANSI/AWWA C105/A21.5-05 REVISION OF ANSI/AWWA C105/A21.5-99 FOR CONSTRUCTION AND INSTALLATION METHODS. USE MODIFIED METHOD A

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

POLYETHYLENE ENCASEMENT (DRY INSTALLATION)



NOTE: FOLLOW ANSI/AWWA C105/A21.5-05 REVISION OF ANSI/AWWA C105/A21.5-99 FOR CONSTRUCTION AND INSTALLATION METHODS. USE MODIFIED METHOD A

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

POLYETHYLENE ENCASEMENT (WET INSTALLATION)

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

| | | | | | |
|---------|------------|-----------------|------------|----------------------|-------------|
| C/E | BWA | BWA | BWA | BWA | CHECKED |
| BID SET | 04/08/2022 | 70% DESIGN PLAN | 03/16/2022 | 30% PRELIMINARY PLAN | DATE |
| REV. | 3 | 2 | 1 | | DESCRIPTION |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
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 CONSTRUCTION DETAILS
 WATER MAIN DETAILS

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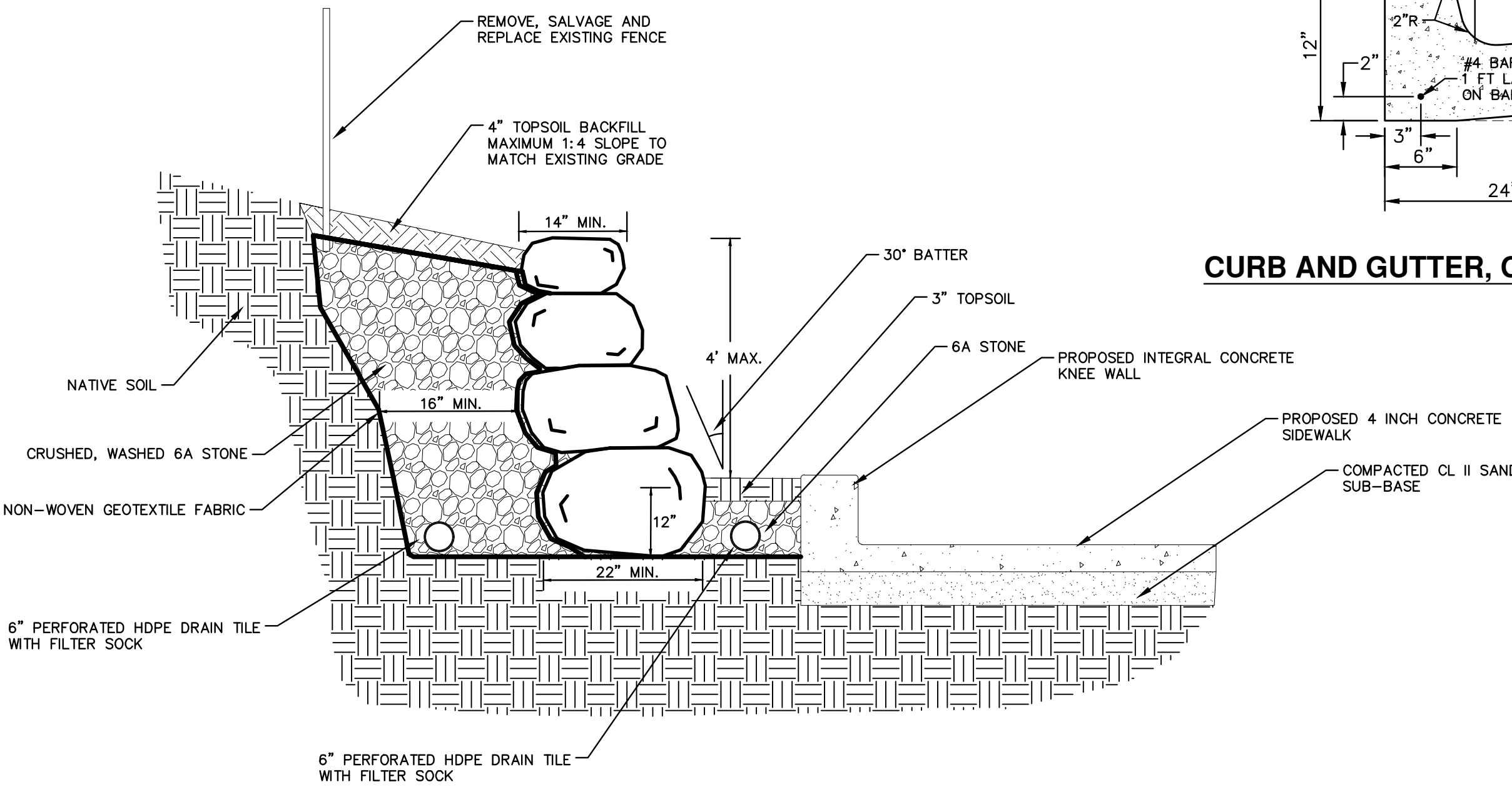
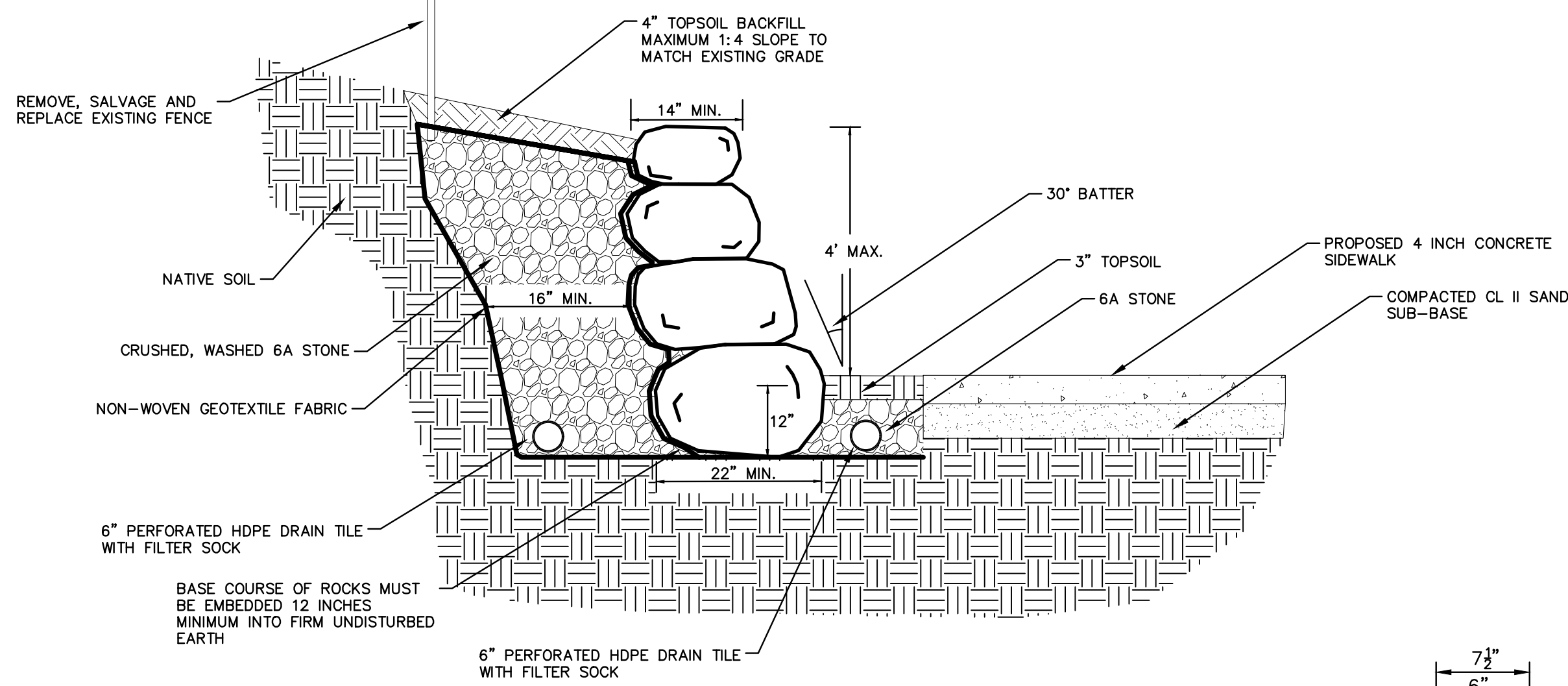
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SCALE: NTS
 DRAWING No. 2022-009-8
 SHEET No. 8 OF 53

NOTES:

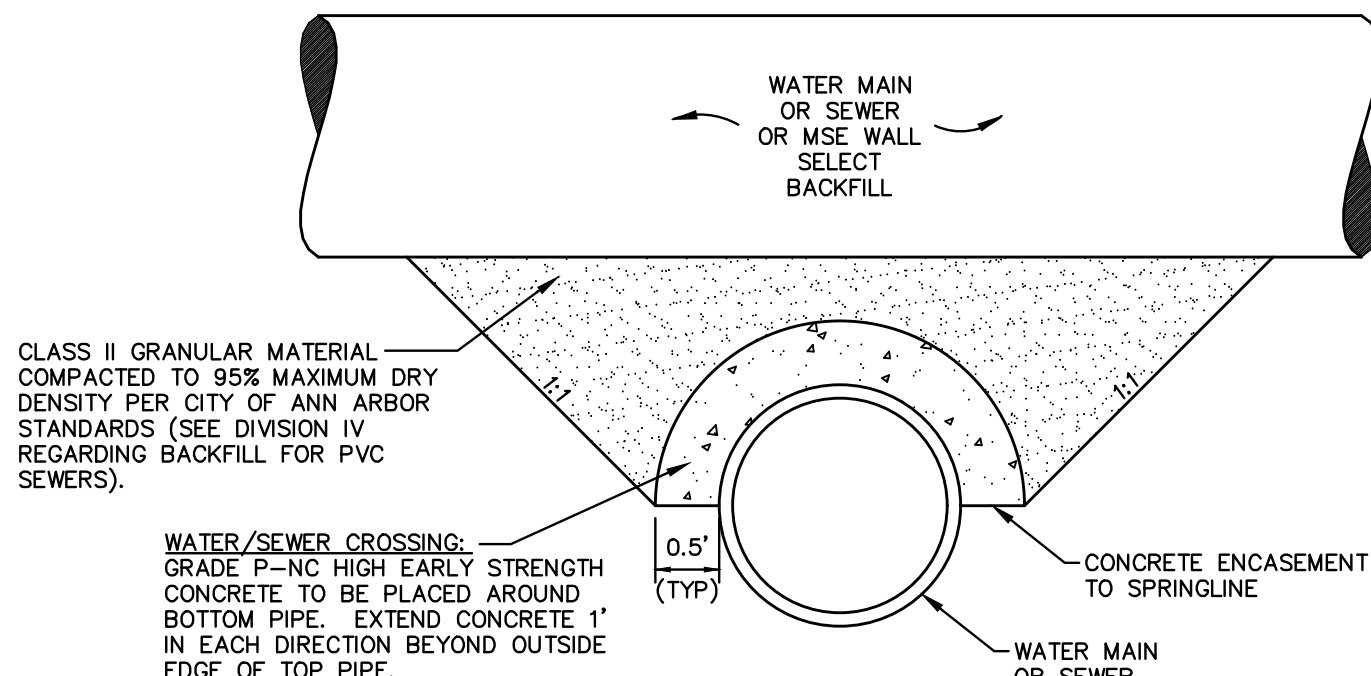
1. STACK SMALLER BOULDERS ON TOP OF LARGER ONES. BOULDERS SHALL NOT BE LOOSE OR ABLE TO BE MOVED BY A PRY BAR ONCE CONSTRUCTION IS COMPLETE.
2. FILL VOIDS BETWEEN BOULDERS WITH AGGREGATE. AGGREGATE SHALL NOT BE LOOSE OR ABLE TO BE REMOVED BY HAND ONCE CONSTRUCTION IS COMPLETE.
3. USE ANGULAR BOULDERS RATHER THAN ROUNDED ONES.
4. THE LONGEST DIMENSION OF THE BOULDER SHALL BE PERPENDICULAR TO THE FACE OF THE WALL.
5. BOULDERS SHALL BEAR ON AT LEAST TWO BOULDERS BELOW, AND SHALL BE PLACED SO THAT NO CONTINUOUS JOINTS EXIST IN EITHER THE VERTICAL OR HORIZONTAL DIRECTIONS.

| SIZE | WEIGHT (LBS) | DIAMETER (IN) | POSITION |
|-------|--------------|---------------|---------------|
| 2-MAN | 265 - 580 | 14 - 18 | TOP 2 ROWS |
| 3-MAN | 760 - 1,470 | 22 - 36 | BOTTOM 2 ROWS |



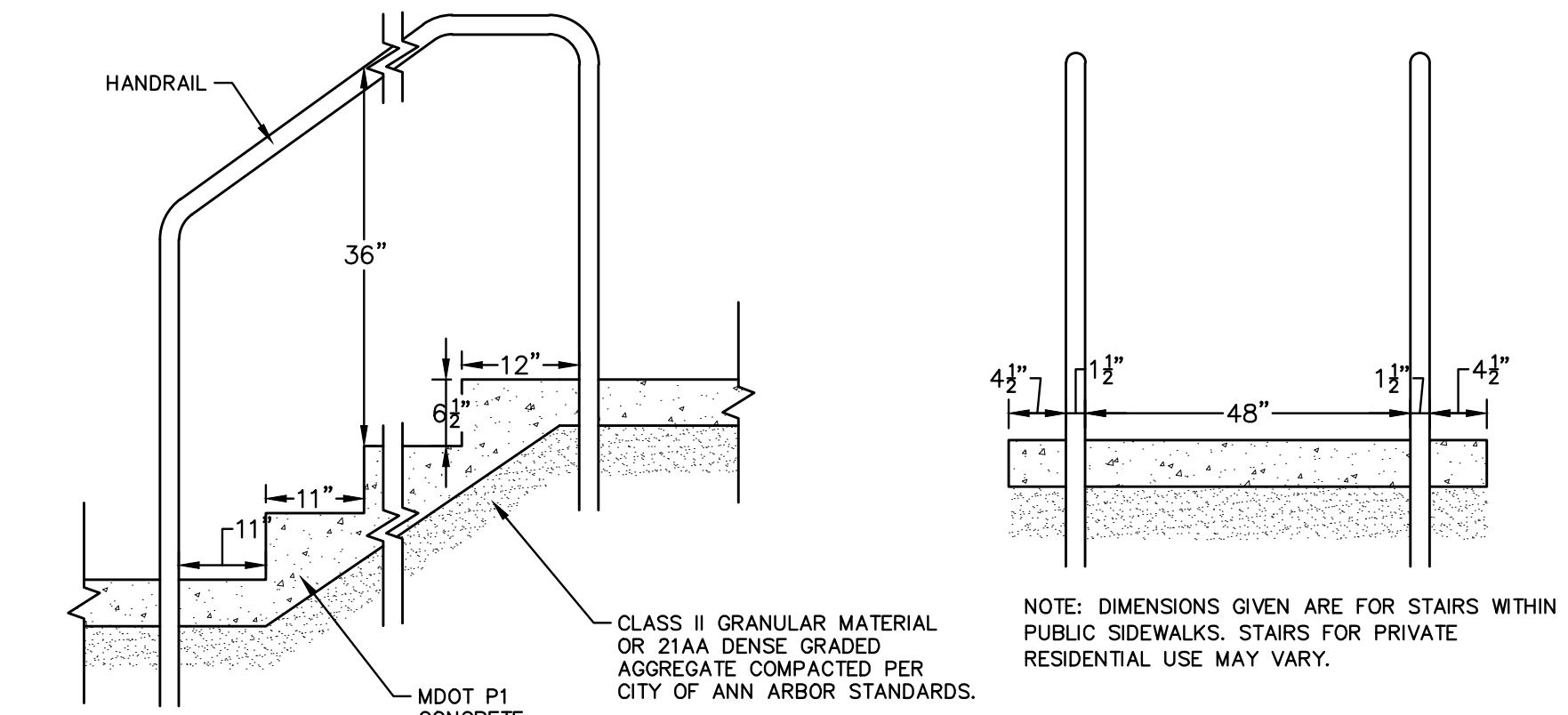
STACKED ROCKERY WALL DETAIL

CURB AND GUTTER, CONC, DET F4, SPECIAL

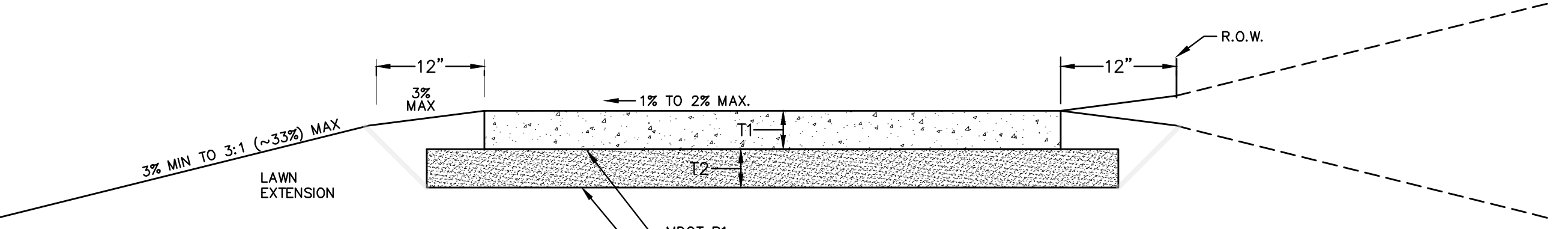


APPLIES TO: WATER AND/OR SEWER CROSSINGS WITH LESS THAN 1.5' OF VERTICAL CLEARANCE

CONCRETE UTILITY SADDLE



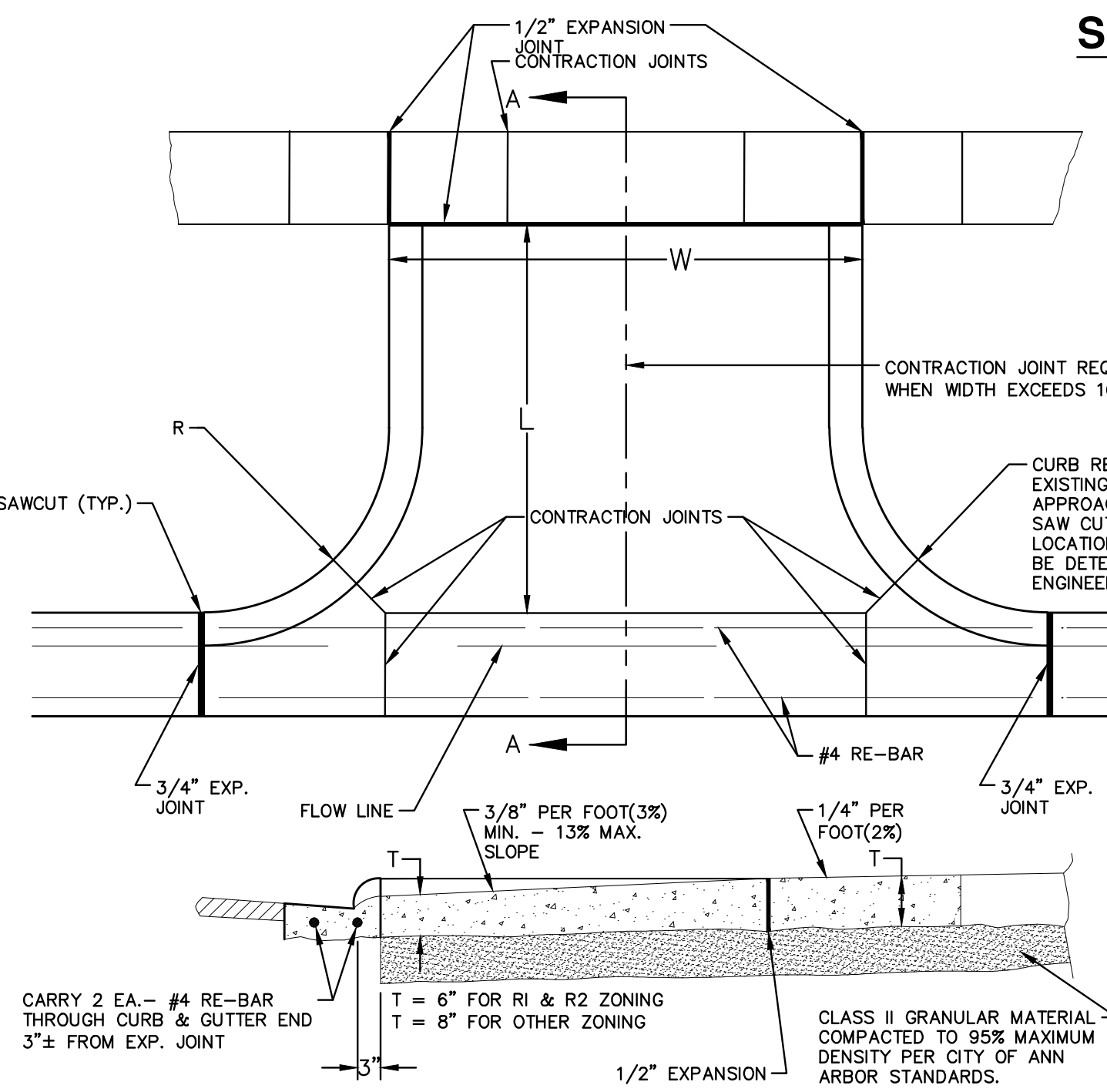
CONCRETE STAIR DETAIL



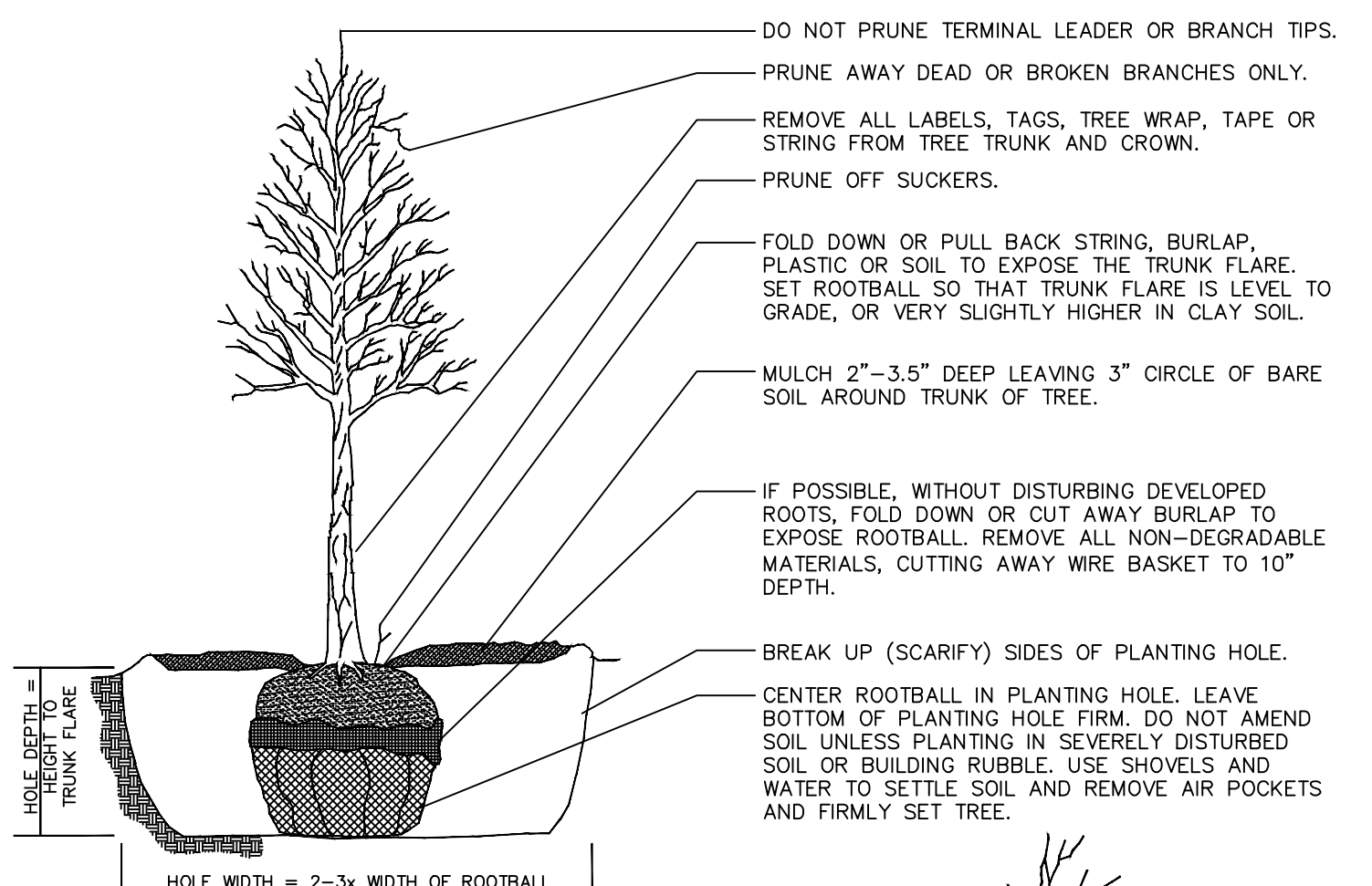
NOTES:

1. SIDEWALK SHALL BE A DESIGNED AND CONSTRUCTED TO MEET ALL ADA STANDARDS AND REQUIREMENTS.
2. CITY OF ANN ARBOR MINIMUM STANDARD WIDTH OF SIDEWALK IS FIVE (5) FEET.
3. CONCRETE SIDEWALK THICKNESS (T1) SHALL BE A MINIMUM OF FOUR (4) INCHES.
4. SIDEWALK THICKNESS (T1) SHALL BE INCREASED AT DRIVE APPROACHES TO SIX (6) INCHES FOR SINGLE-FAMILY OR DUPLEX RESIDENTIAL USES. ALL OTHER USES REQUIRE A MINIMUM EIGHT (8) INCH THICKNESS WITHIN THE DRIVE APPROACH.
5. BASE THICKNESS (T2) SHALL BE A MINIMUM OF FOUR (4) INCHES.
6. THICKNESS OF THE BASE (T2) SHALL BE INCREASED TO A MINIMUM OF SIX (6) INCHES WITHIN THE DRIVE APPROACH.
7. IF EXISTING SUBGRADE MATERIAL IS APPROVED BY THE ENGINEER FOR USE, COMPACT THE EXISTING SUBGRADE TO 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY.
8. NATIVE MATERIAL MAY BE ACCEPTABLE FOR SIDEWALK CONSTRUCTION, IF THE BASE IS STABLE AND FREE OF ORGANIC OR DELETERIOUS MATERIALS.
9. SIDEWALK RAMP SHALL BE CONSTRUCTED AT STREET INTERSECTIONS AS DIRECTED AND SHALL COMPLY WITH THE REQUIREMENTS OF MDOT DETAIL R-28 (LATEST VERSION).
10. SIDEWALKS MAY MEANDER WITHIN THE RIGHT-OF-WAY TO PROTECT AND PRESERVE NATURAL FEATURES.
11. EXPANSION AND CONTRACTION JOINTS SHALL BE PROVIDED PER CITY OF ANN ARBOR STANDARD DETAILS AND SPECIFICATIONS.

SIDEWALK CROSS SECTION, SD-R-9

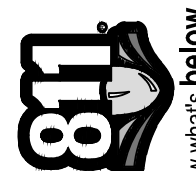


TYPE 'M' DRIVE APPROACH SD-R-6




TREE PLANTING DETAIL

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|--|----------------------|------------|------|-----|-----|---------|--|--|-------------|
| | | | | | | | | | |
| | C/E | BWA | C/E | C/E | C/E | CHECKED | | | |
| | BID SET | 04/08/2022 | | | | | | | |
| | 70% DESIGN PLAN | 03/16/2022 | | | | | | | |
| | 30% PRELIMINARY PLAN | 02/07/2022 | | | | | | | |
| | REV. | | DATE | | | | | | DESCRIPTION |
| | 3 | | | | | | | | |
| | 2 | | | | | | | | |
| | 1 | | | | | | | | |



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
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CONSTRUCTION DETAILS
 MISCELLANEOUS DETAILS I

SCALE: NTS

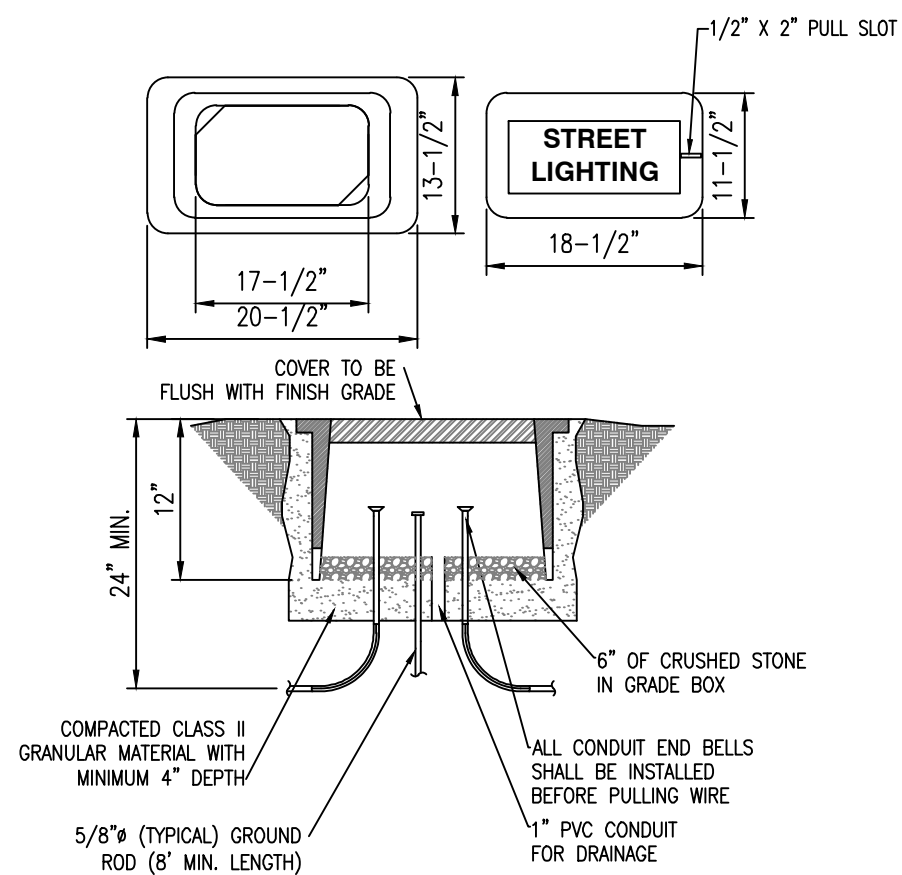
DRAWING No. 2022-008-9

SHEET No.

9 OF 53

GENERAL NOTES

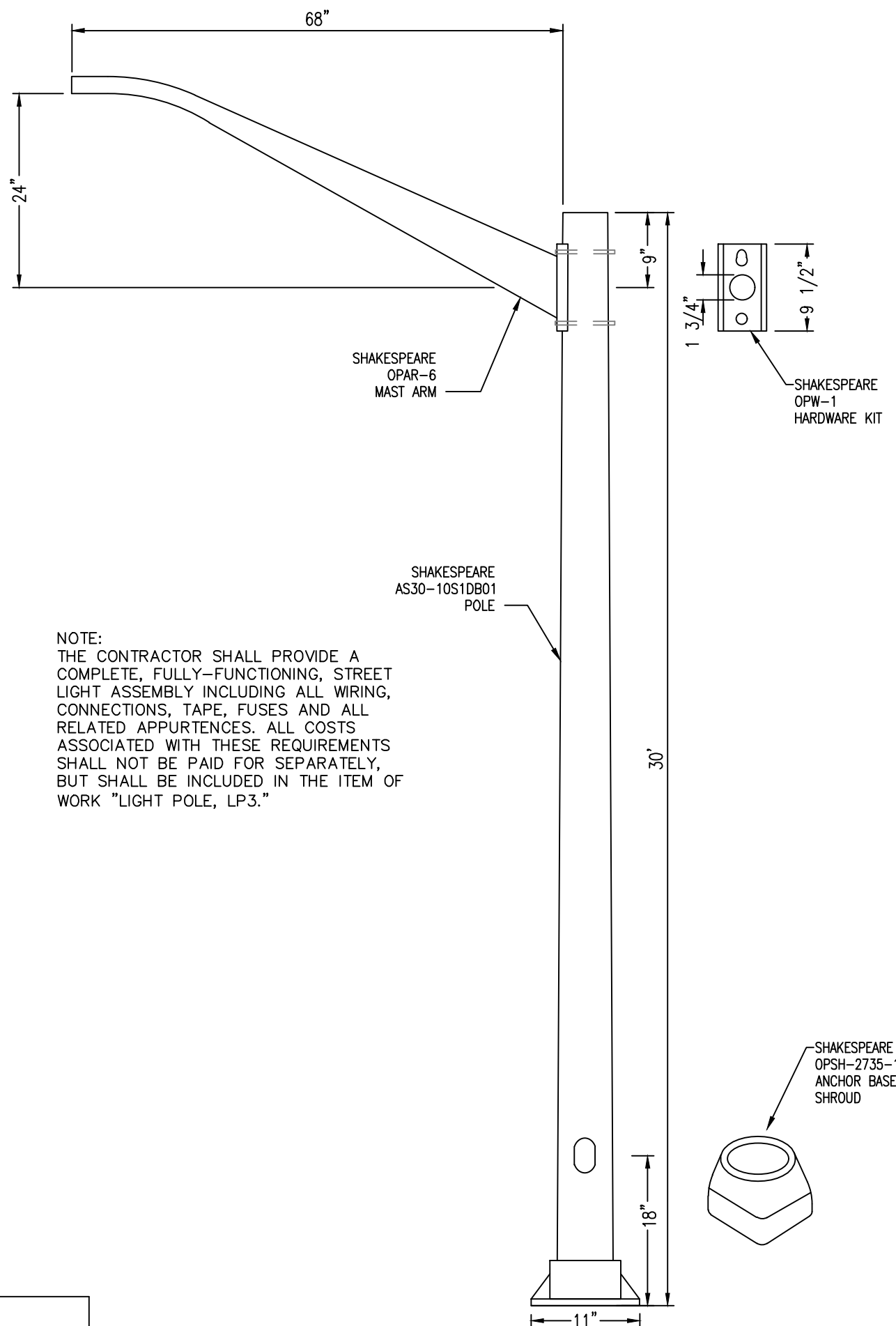
1. PROVIDE QUAZITE MODEL PC1118BA12 WITH COVER PC1118HA00 OR APPROVED EQUIVALENT.
2. BOX AND COVER SHALL BE POLYMER CONCRETE.
3. COVERS SHALL BE SECURED WITH 3/8" BOLTS, NUTS, AND WASHERS WHICH SHALL BE BRASS, STAINLESS STEEL OR OTHER CORROSION RESISTANT MATERIAL. STAINLESS STEEL SHALL HAVE A CHROMIUM CONTENT OF NOT LESS THAN 18% AND A NICKEL CONTENT OF NOT LESS THAN 8%. NUTS SHALL BE RECESSED BELOW TOP SURFACE OF COVER.
4. COVER LETTERING SHALL BE 1/2" MINIMUM LETTERS CAST IN STANDARD MARKINGS: (STREET LIGHTING).
5. CONDUIT ENTERING THE BOX SHALL HAVE 90° LONG RADIUS BEND (INSIDE THE BOX). THE CONDUITS OPENING, INSIDE THE BOX, SHALL BE AT LEAST 4" BELOW THE LID. OPENING SHALL HAVE SMOOTH EDGE. IF THE CONDUIT IS P.V.C. A SLIP COUPLING MUST BE USED. IF THE CONDUIT IS RIGID PIPE, A PROTECTIVE BUSHING SHALL BE USED.
6. CONDUCTORS SHALL HAVE A MINIMUM OF 24" SLACK FROM CONDUIT BELL END.
7. BACKFILL WITH CLASS II GRANULAR MATERIAL AND THOROUGHLY COMPACT.
8. WHERE HANDHOLES ARE INSTALLED IN CONCRETE AREAS, 1/2" PREMOLDED EXPANSION JOINT SHALL BE INSTALLED AROUND THE BOX.
9. BOXES IN NON-VEHICLE TRAFFIC AREAS TO BE TIER 8 AND IN VEHICLE TRAFFIC AREAS TO BE TIER 22 UNLESS OTHERWISE NOTED.



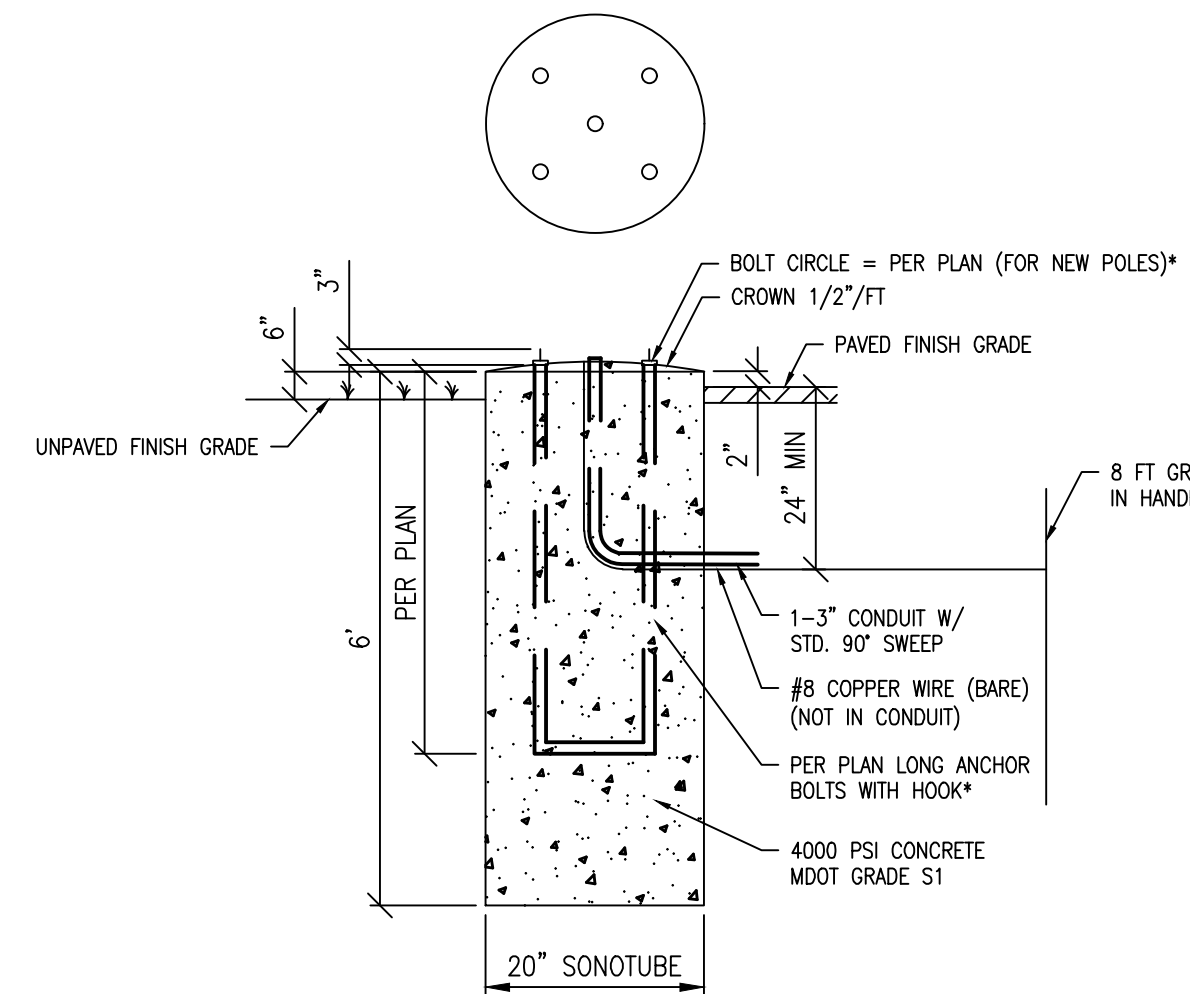
HANDHOLE DETAIL

LIGHT FIXTURE SCHEDULE

| TYPE | DESCRIPTION | MANUFACTURER | CATALOG # | LAMPS | REMARKS |
|------|-------------------------|--------------|-------------------------|-------|---|
| SL3 | COBRA HEAD STREET LIGHT | LUMECON | LWS-LSL-60-GR-1-T2-WW-R | LED | FIXTURE TO BE MOUNTED ON POLE TYPE LP3. |
| | | | | | |
| | | | | | |

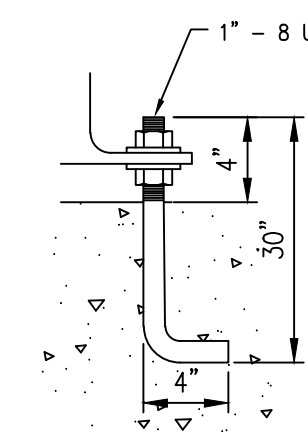


POLE TYPE LP3 DETAIL



TYPICAL LIGHT POLE FOUNDATION DETAIL

- NOTES:
1. HOLE TO BE AUGERED. MINIMIZE DISTURBANCE OF IN-SITU SOILS DURING AUGERING.
 2. CONTRACTOR TO PROVIDE PREFABRICATED ANCHOR BOLT BUILD-UP.
 3. THE CITY WILL INSPECT THE AUGERED HOLE AND THE ANCHOR BOLT BUILD-UP AND PROVIDE WRITTEN APPROVAL PRIOR TO THE PLACEMENT OF CONCRETE.
 4. NO WATER IS TO BE IN HOLE AT THE TIME OF CONCRETE PLACEMENT.
 5. CONCRETE SHALL BE VIBRATED DURING PLACEMENT.
 6. CONTRACTOR WILL PROVIDE NECESSARY CONDUIT FOR ENTRY. PAID FOR AT THE CONTRACT UNIT PRICE FOR 2" CONDUIT.
 7. COPPER CLAD GROUND ROD (1 REQUIRED) TO BE 5/8" DIA. x 8'-0". LOCATE IN HANDHOLE.
 8. CONDUIT TO EXTEND 1-2" ABOVE BASE. CABLES TO EXTEND 6" OUTSIDE OF HANDHOLE.
 9. SHIMS TO BE 1/2" MIN., PER D.E. SPEC.
 10. GROUND CABLE SHALL BE #8 SOFT BARE COPPER WIRE WELDED TO GROUND ROD WITH 24" SLACK ABOVE FOUNDATION TOP. THE NEUTRAL AT THE POLE IS TO BE CONNECTED TO THIS GROUND CABLE.
 11. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT ANCHOR BOLT PATTERN WITH FIXTURE/POLE MANUFACTURER PRIOR TO POURING CONCRETE BASE. ARRANGE ANCHOR BOLTS AS REQUIRED FOR PROPER ORIENTATION OF RECEPTACLE AND BANNER ARMS.
 12. PAID FOR AS "FOUNDATION, LIGHT POLE"
 13. REFERENCE, ANN ARBOR CITY DETAIL "SD-SL-1".



ALSO PROVIDE SHAKESPEARE OPAB-2035 ANCHOR BOLT KIT FOR EACH LIGHT POLE. ANCHOR BOLTS TO BE HOT-DIPPED GALVANIZED, 30" LONG, WITH 4" HOOK, AND A 4" PROJECTION ABOVE FOUNDATION.

ANCHOR BOLT PROJECTION DETAIL

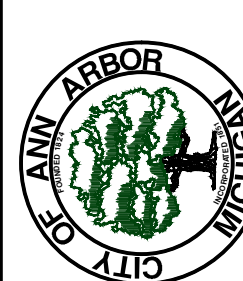
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| REV. | DATE | DRAWN | CHECKED |
|------|------------|-------|---------|
| 3 | 04/08/2022 | BWA | C/E |
| 2 | 03/16/2022 | BWA | C/E |
| 1 | 02/07/2022 | BWA | C/E |

| REV. | DESCRIPTION |
|------|----------------------|
| 3 | BID SET |
| 2 | 70% DESIGN PLAN |
| 1 | 30% PRELIMINARY PLAN |

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CONSTRUCTION DETAILS
MISCELLANEOUS DETAILS II

SCALE: NTS
DRAWING No. 2022-009-10

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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 VI, 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 MAINS, STORM AND SANITARY SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF NEW DRAINAGE INLETS.
- 1.4. PERFORM MACHINE GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES, ETC.).
- 1.5. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.

- 1.6. COMPLETE ALL FINE GRADING.
- 1.7. INSTALL TEMPORARY SEED AND EROSION CONTROL BLANKET IN ALL DISTURBED AREAS.
- 1.8. REFER TO LANDSCAPE PLANTING PLANS FOR PERMANENT SITE STABILIZATION.
- 1.9. CLEAN OUT STORM SEWER SYSTEMS.
- 1.10. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.
- 1.11. 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.

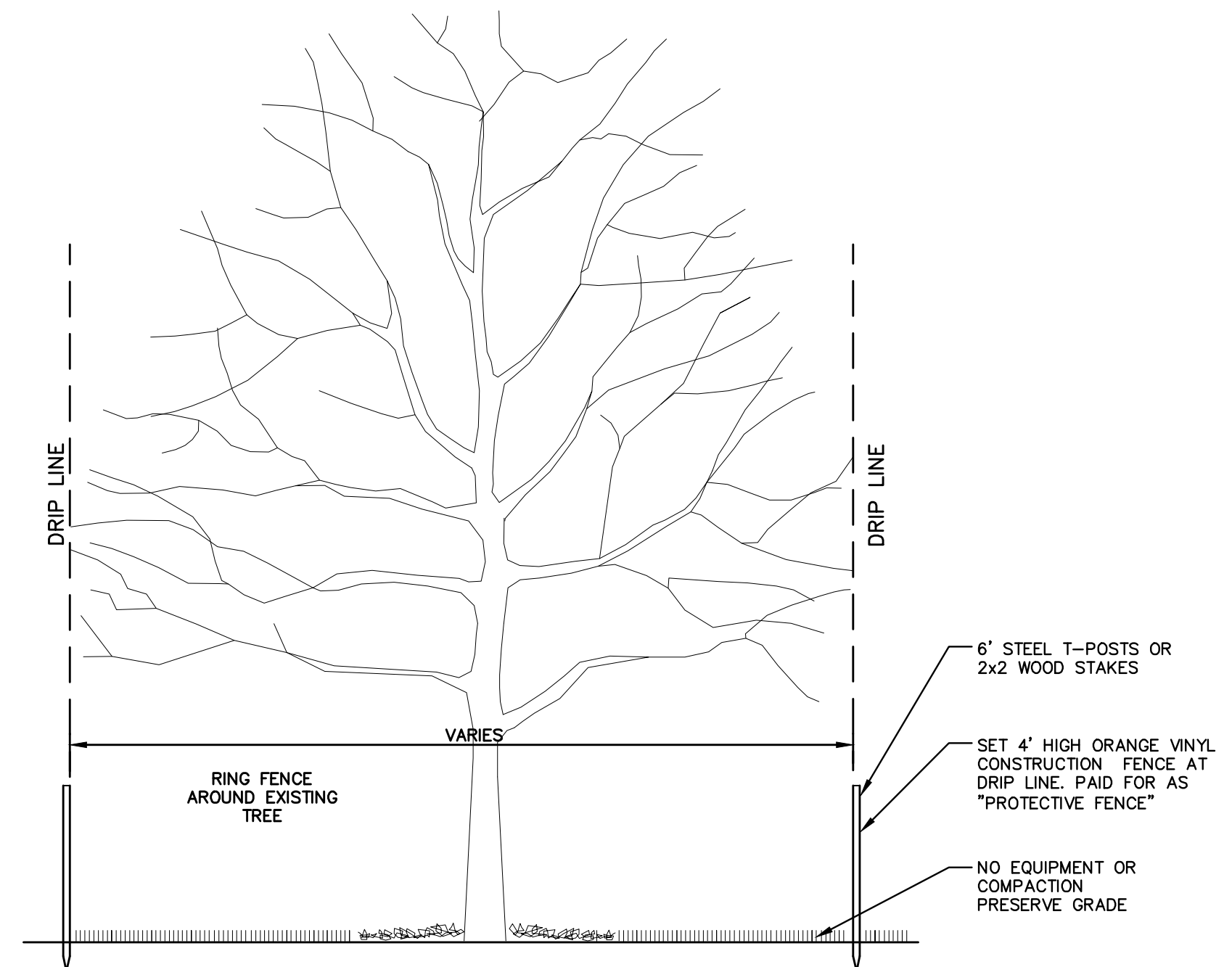
THE ESTIMATED COST OF SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, TOPSOIL, SEEDING, AND MULCH = \$50,000

- ON SITE SOILS PER THE USDA SOIL SURVEY OF WASHTENAW COUNTY, MICHIGAN:
- HURON/TUBINGEN: WAWASEE LOAMS (A,B&C) 100%
 - GEDDES: WAWASEE LEAMS (B,C,D&E) 100%

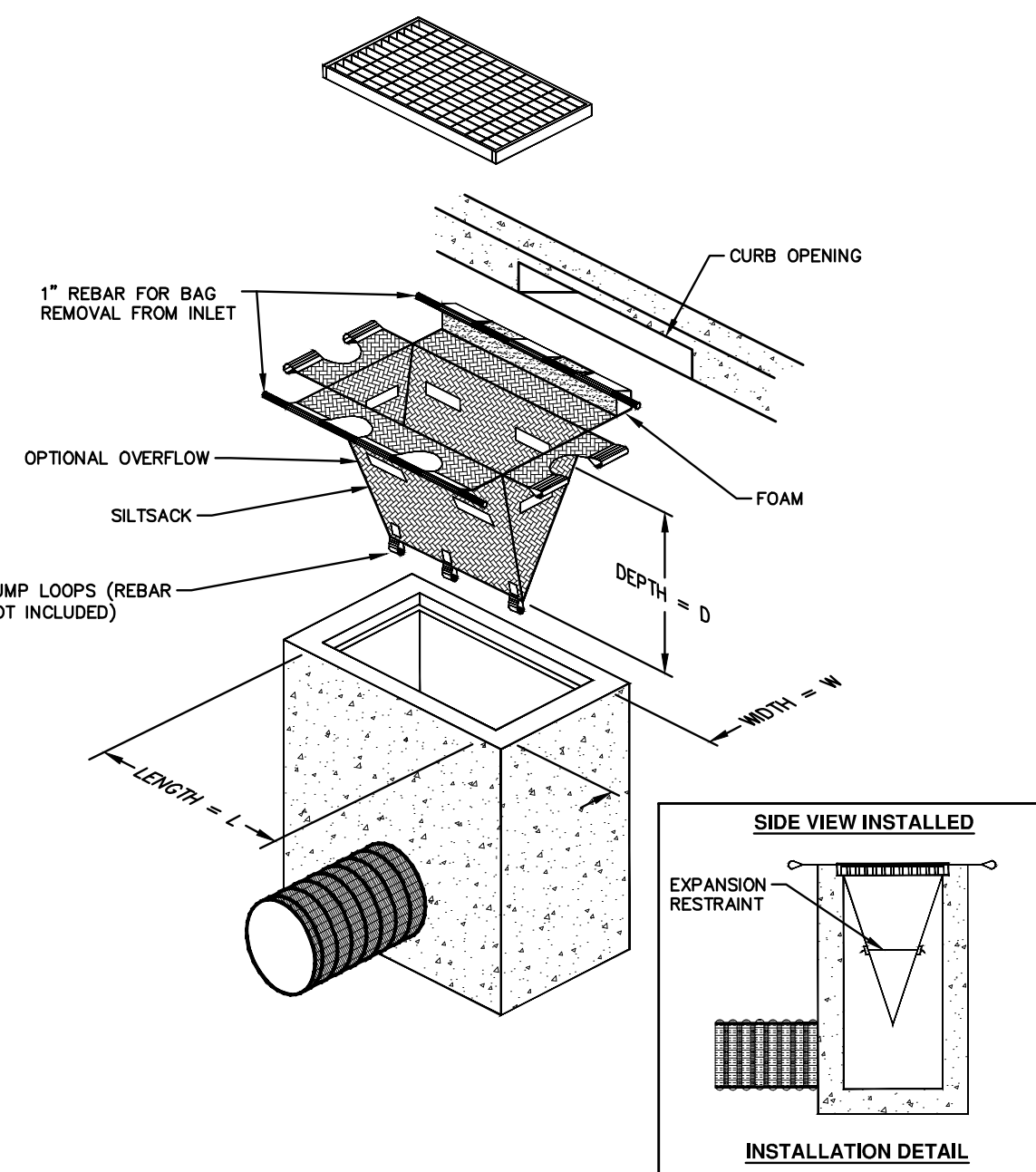
GEDDES AREA OF PROPOSED DISTURBANCE = 2.69 ACRES
HURON PKWY/TUEBIGEN AREA OF PROPOSED DISTURBANCE = 3.36 ACRES

GRASS SEED, FERTILIZER AND MULCH APPLICATION RATES:

1. TURF GRASS SEED APPLICATION RATE: 4 LBS / 1,000 SF
FERTILIZER APPLICATION RATE (FOR SEED): 20 LBS / 1,000 SF
MULCH (GRAIN-FREE STRAW) APPLICATION RATE: 2 TONS / ACRE (OR 3,000 ILBS STRAW TREATED WITH 100 GAL. OF ASPHALT EMULSION / ACRE



TREE PROTECTION DETAIL



SILTSACK DETAIL

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 |
| TRAPAZOID TEAR | ASTM D-4633 | 120 LBS |
| UV RESISTANCE | ASTM D-4355 | 80% |
| APPARENT OPENING SIZE | ASTM D-4751 | 40 US SIEVE |
| FLOW RATE PERMITTIVITY | ASTM D-4491 | 40 GAL/MIN/50 FT |
| | | 0.55 SEC -1 |

HI-FLOW SILTSACK

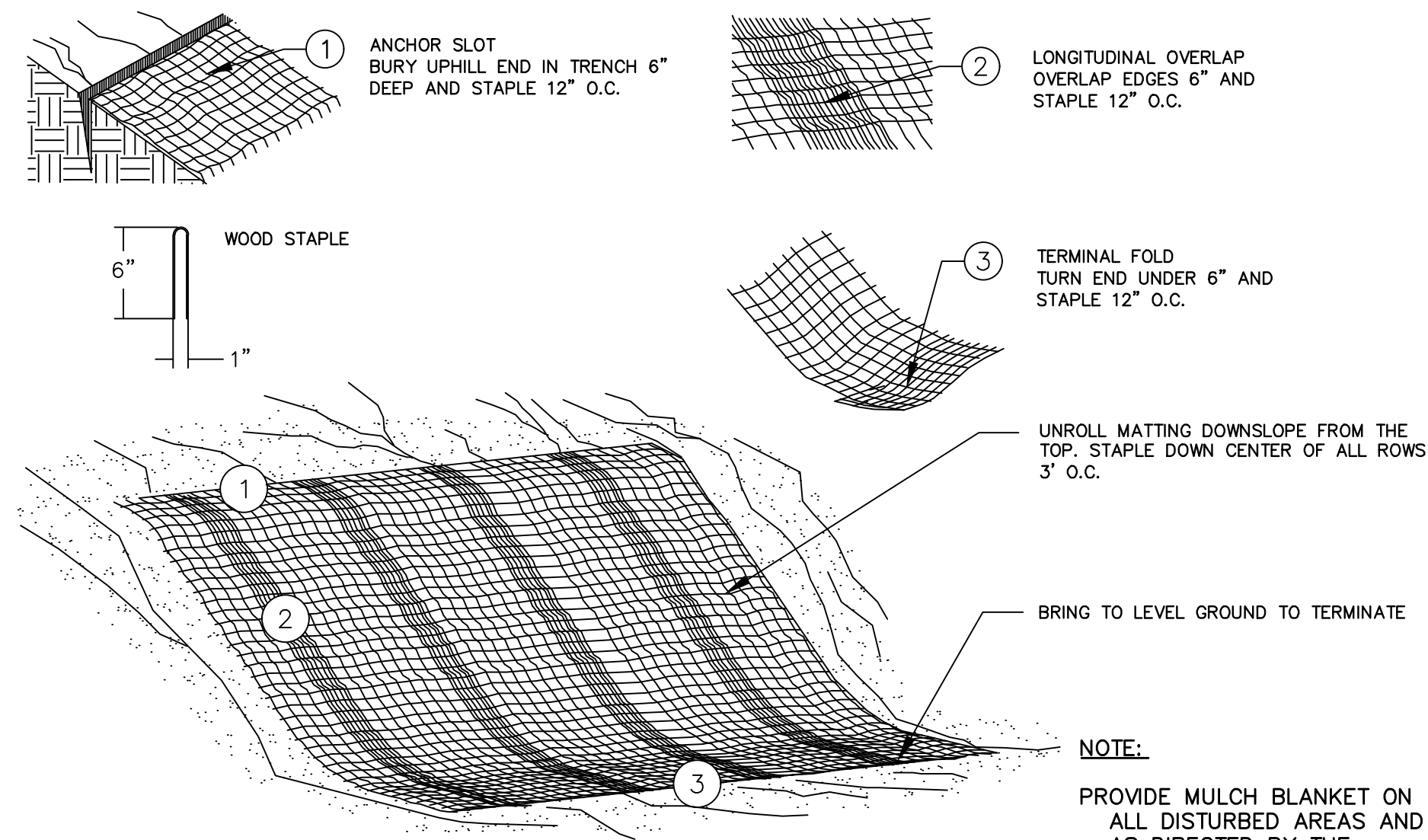
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

| 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 |
| TRAPAZOID TEAR | ASTM D-4633 | 45 LBS |
| UV RESISTANCE | ASTM D-4355 | 90% |
| APPARENT OPENING SIZE | ASTM D-4751 | 20 US SIEVE |
| FLOW RATE PERMITTIVITY | ASTM D-4491 | 200 GAL/MIN/50 FT |
| | | 1.5 SEC -1 |

OIL-ABSORBANT SILTSACK

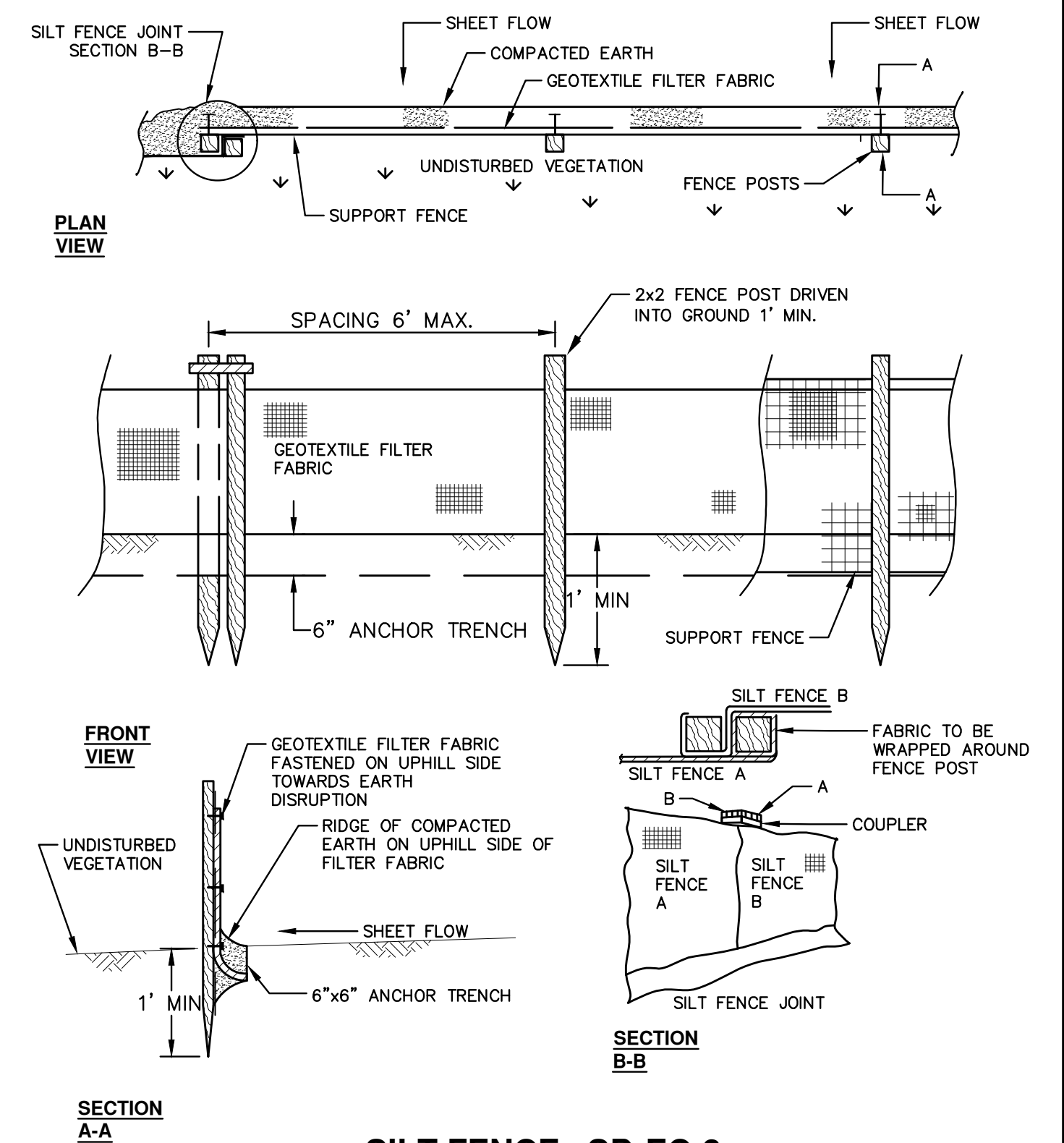
(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

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



MULCH BLANKET DETAIL

APPLIES TO ALL AREAS TO BE PERMANENTLY RESTORED WITH GRASS. SEE LANDSCAPE PLANS FOR MORE DETAILS.



SILT FENCE SD-EC-3



| REV. | DATE | DESCRIPTION | C/E | CHECKED |
|------|------------|----------------------|-----|---------|
| 3 | 04/08/2022 | BID SET | BWA | |
| 2 | 03/16/2022 | 70% DESIGN PLAN | BWA | |
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN | BWA | |
| | | | | DRAWN |
| | | | | CHECKED |

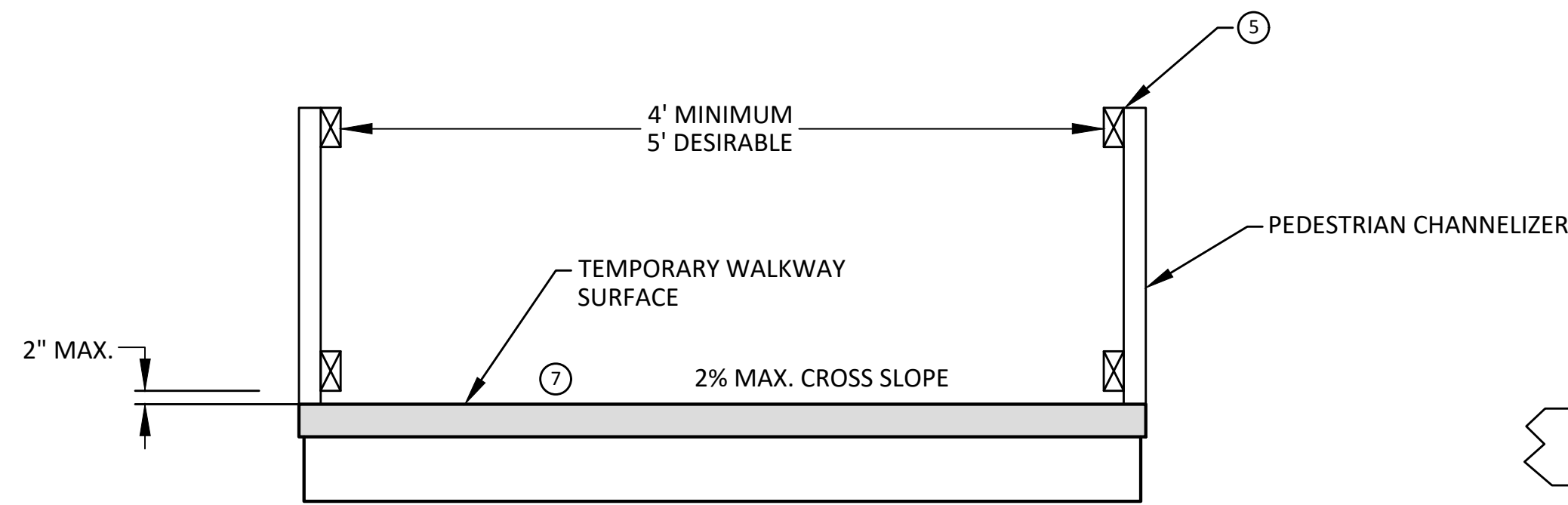
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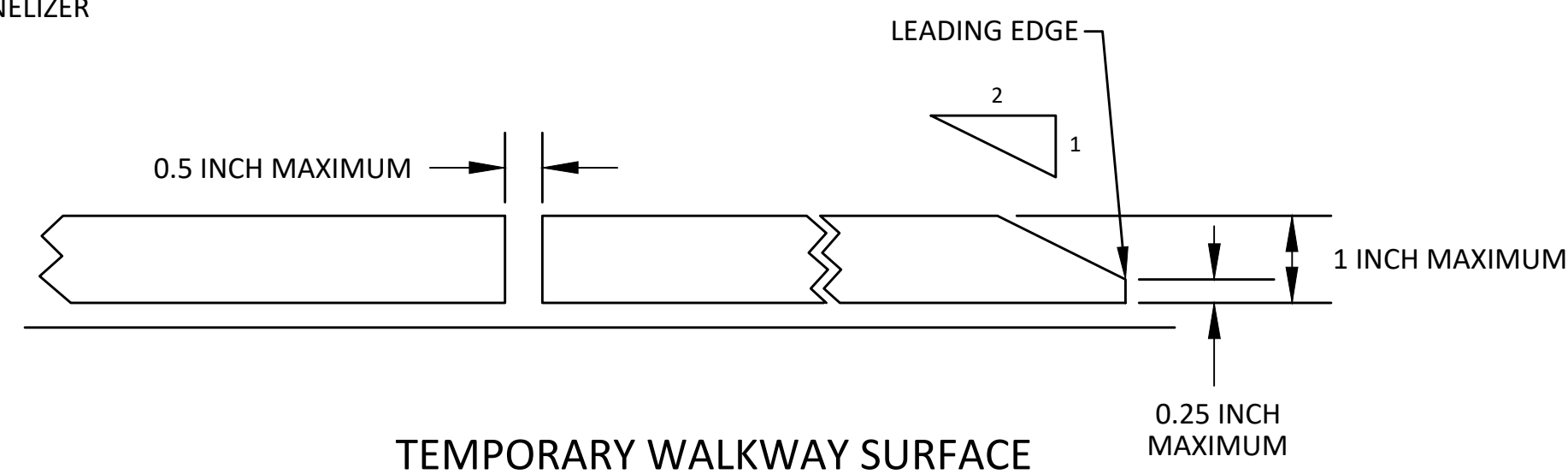
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDES & HURON PARKWAY/TUEBIGEN RESURFACING PROJECT
CONSTRUCTION DETAILS
SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS

SCALE: NTS
DRAWING No. 2022-009-11
SHEET No. 11 OF 53

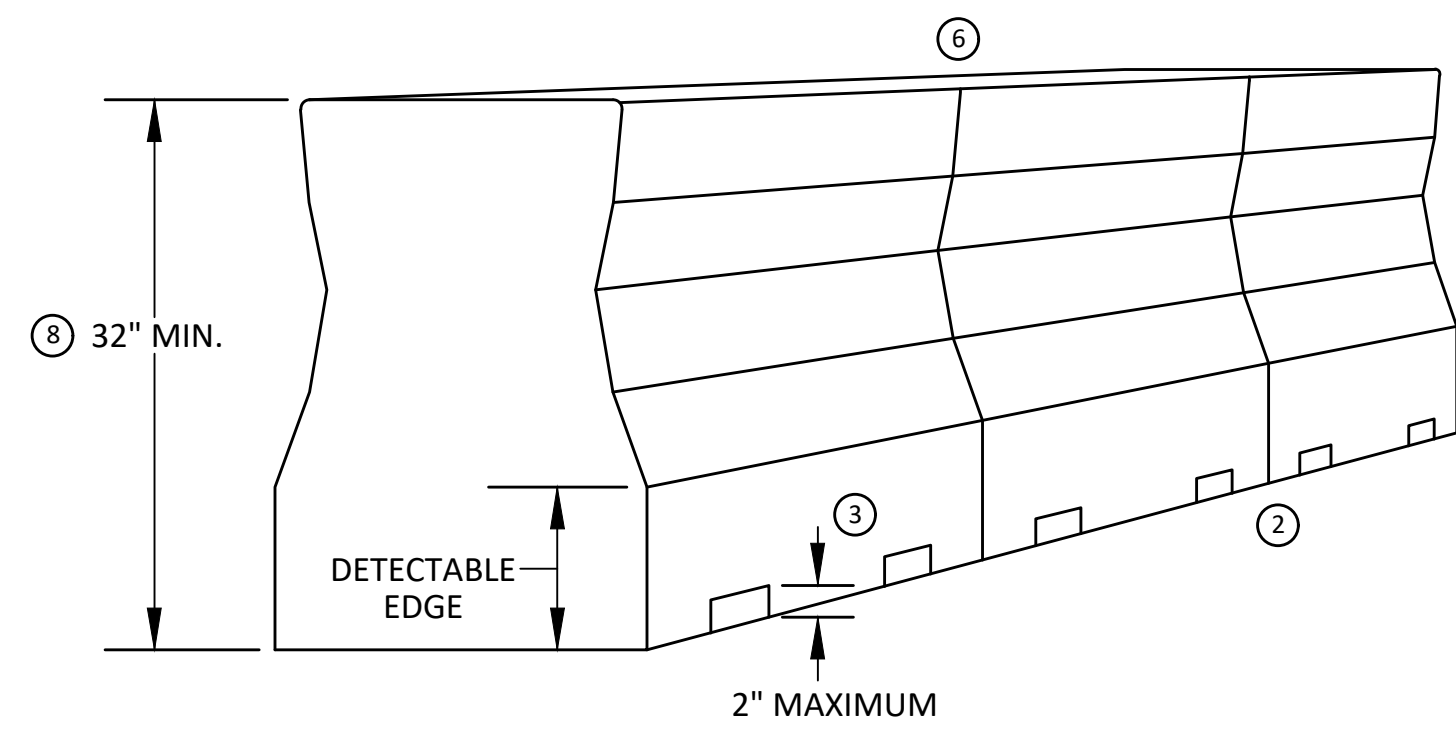
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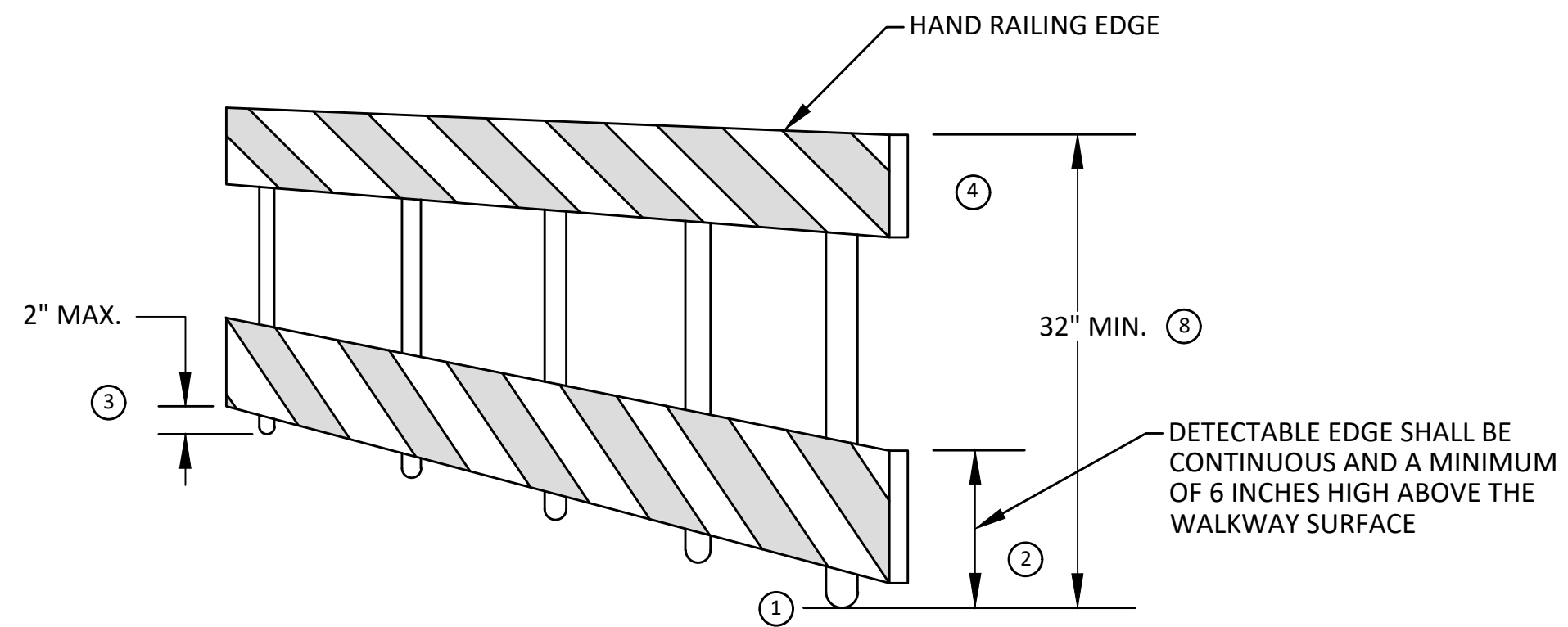
TEMPORARY PEDESTRIAN ACCESS



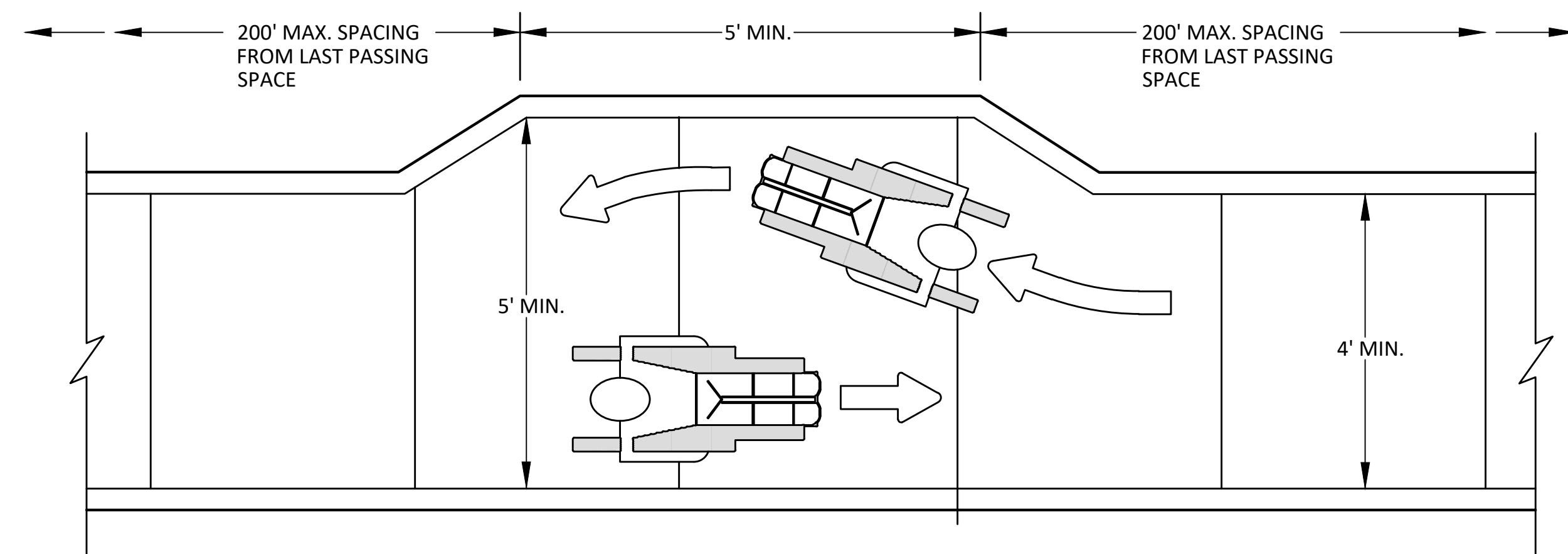
TEMPORARY WALKWAY SURFACE



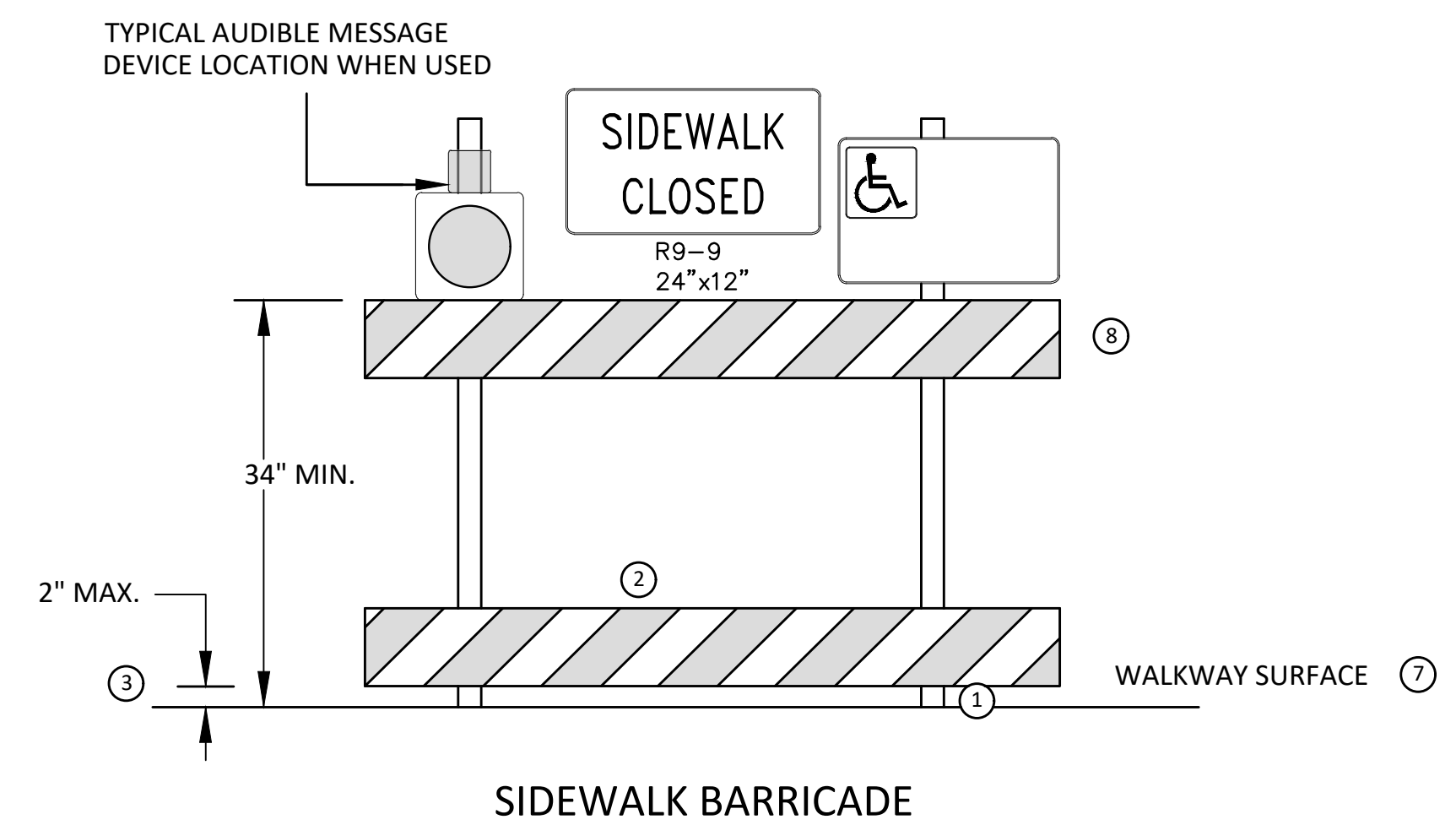
PEDESTRIAN CHANNELIZER USING A BARRIER
(MINIMUM REQUIREMENTS)



PEDESTRIAN CHANNELIZER
(MINIMUM REQUIREMENTS)



NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL



SIDEWALK BARRICADE

GENERAL NOTES

RAILINGS OR OTHER OBJECTS MAY PROTRUDE A MAXIMUM OF 4 INCHES INTO THE WALKWAY CLEAR SPACE WHEN LOCATED A MINIMUM OF 27 INCHES ABOVE THE WALKWAY SURFACE.

ANY PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS OR WORKERS SHALL MEET NCHRP 350 CRASHWORTHY REQUIREMENTS APPROPRIATE FOR THE BARRIER'S APPLICATION.

BARRICADES SHALL BE PLACED CONTINUOUSLY ACROSS THE ENTIRE WIDTH OF THE WALKWAY SURFACE BEING CLOSED.

SPECIFIC NOTES

- 1 ANY TRIPPING HAZARD IN THE WALKWAY NEEDS A DETECTABLE EDGE. BALLAST SHALL BE LOCATED BEHIND OR INTERNAL TO THE DEVICE. ANY SUPPORT ON THE FRONT OF THE DEVICE SHALL NOT EXTEND INTO THE 48 INCH MINIMUM WALKWAY CLEAR SPACE AND SHALL NOT EXCEED 0.5 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE.
- 2 DETECTABLE EDGES SHALL BE CONTINUOUS AND A MINIMUM OF 6 INCHES IN HEIGHT ABOVE WALKWAY SURFACE AND HAVE COLOR MARKINGS CONTRASTING WITH THE WALKWAY SURFACE.
- 3 DEVICES SHALL NOT BLOCK WATER DRAINAGE FROM THE WALKWAY. A GAP HEIGHT OR OPENING FROM THE WALKWAY SURFACE UP TO A MAXIMUM OF 2 INCHES IS ALLOWED FOR DRAINAGE PURPOSES.
- 4 WHEN HAND GUIDANCE IS REQUIRED, THE TOP RAIL OR TOP SURFACE SHALL:
 - BE IN A VERTICAL PLANE PERPENDICULAR TO THE WALKWAY ABOVE THE DETECTABLE EDGE.
 - BE CONTINUOUS AT A HEIGHT OF 34 TO 38 INCHES ABOVE THE WALKWAY SURFACE, AND
 - BE SUPPORTED WITH MINIMAL INTERFERENCE TO THE PEDESTRIAN'S HANDS OR FINGERS.
- 5 ALL DEVICES SHALL BE FREE OF SHARP OR ROUGH EDGES, AND FASTENERS (BOLTS) SHALL BE ROUNDED TO PREVENT HARM TO HANDS, ARMS OR CLOTHING OF PEDESTRIANS.
- 6 ALL DEVICES USED TO CHANNELIZE PEDESTRIAN FLOW SHOULD INTERLOCK SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO STRAY FROM THE INTENDED CHANNELIZED PATH.
- 7 A WALKWAY SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED.
- 8 LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS SHALL BE 32 INCHES IN HEIGHT OR GREATER.



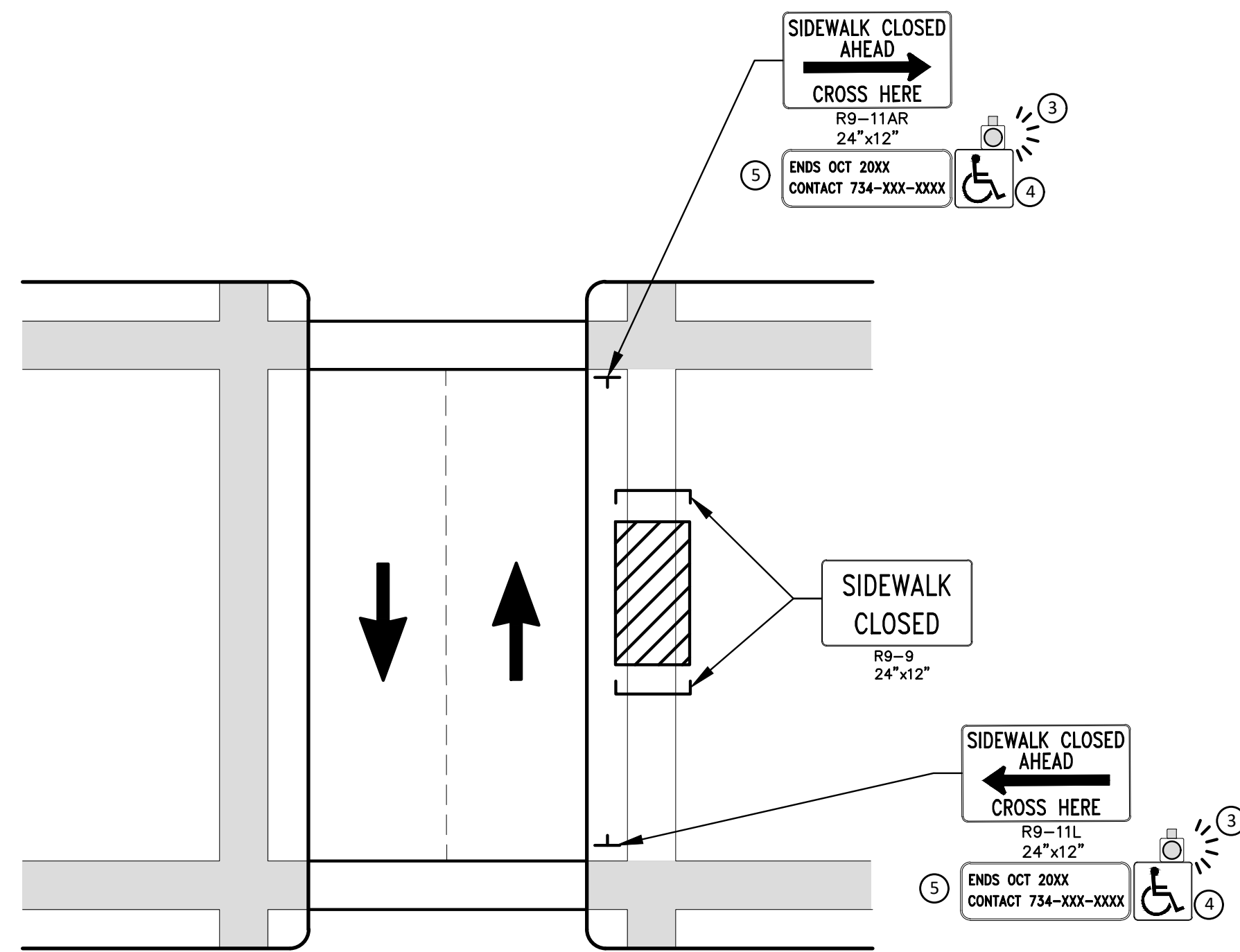
| REV. | DATE | DESCRIPTION |
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| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 3 | 04/08/2022 | BID SET |

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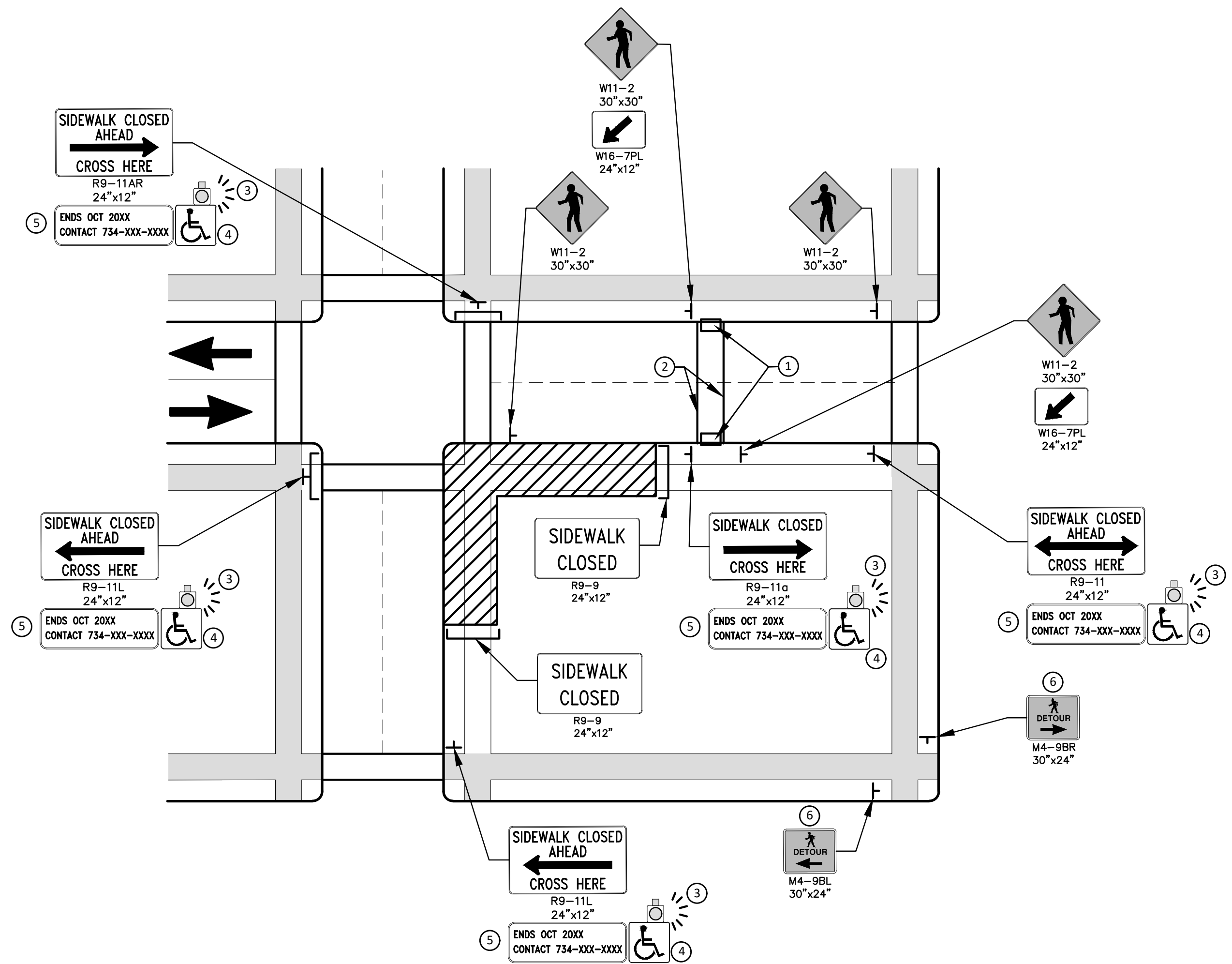


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT
PEDESTRIAN TRAFFIC CONTROL
TPAR WALKWAY DEVICES

SCALE: NTS
DRAWING No. 2022-009-12



PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET



OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS
(FOR CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED. PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE THIS WORK WITH THE ENGINEER A MINIMUM OF 72 HOURS (NOT INCLUDING WEEKENDS & HOLIDAYS) PRIOR TO THE BEGINNING OF WORK THAT REQUIRES A SIDEWALK CLOSURE.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATIONS OR PLACEMENT OF TRAFFIC CONTROL DEVICES HAS CAUSED A SITUATION THAT THE VISIBILITY OF IS REDUCED ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

1. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE UTILIZING BYPASSES.
2. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS AS SHOWN ON THE PROJECT PLANS.

SPECIFIC NOTES

1. TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
2. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
3. AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHALL BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.
4. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHOULD BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL BE POSTED AND AN ALTERNATE ROUTE SHALL BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.
5. TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHALL INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
6. PEDESTRIAN DETOUR TRAILBLAZING SIGNS SHALL BE USED IF THE PEDESTRIAN DETOUR IS IN A LOCATION OTHER THAN ACROSS THE STREET FROM THE SIDEWALK CLOSURE.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MMUTCD, PART 6.
2. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.
3. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHALL BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
4. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF NCHRP 350 AND THE MMUTCD SHALL BE USED.
5. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
6. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.
7. WHEN DIRECTED BY THE ENGINEER, OR STATED ON THE PLANS, THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL BY THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC. NO WORK SHALL BE ALLOWED TO BEGIN UNTIL THIS PLAN IS APPROVED BY THE ENGINEER IN WRITING.
8. PROVISION OF THE TPAR AND ALL OF ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO, CREATION OF THE TEMPORARY PEDESTRIAN CONTROL PLAN, SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "MINOR TRAF DEVICES."

LEGEND

- SIGN
- ▨ EXISTING PEDESTRIAN SURFACE
- ▨ WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- BARRIER
- SIDEWALK BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DEVICE



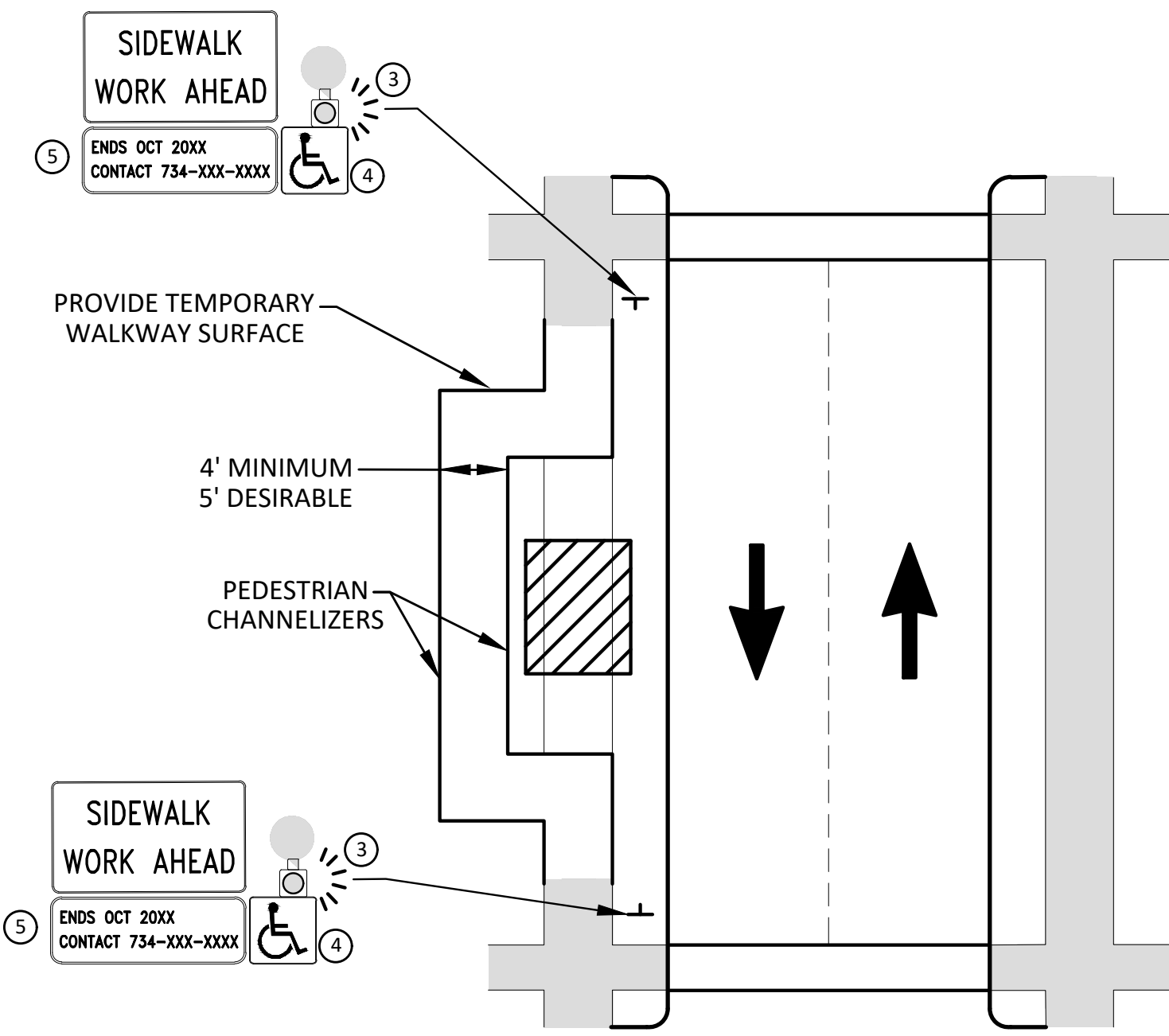
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|------|------------|----------------------|---------|-------|
| 3 | 04/08/2022 | BID SET | BWA | C/E |
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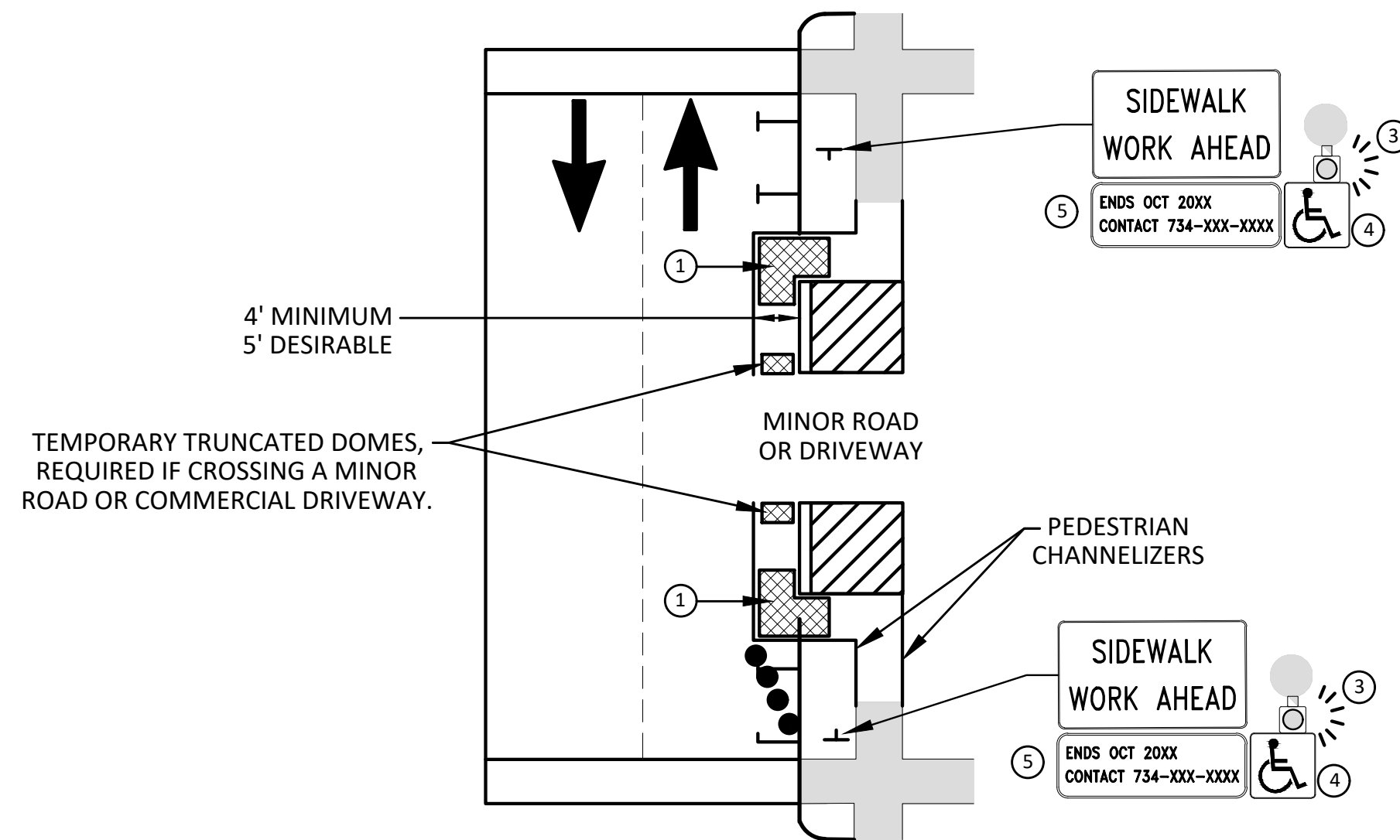
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GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT
PEDESTRIAN TRAFFIC CONTROL
TPAR DETOUR
SCALE: NTS
DRAWING No. 2022-009-13

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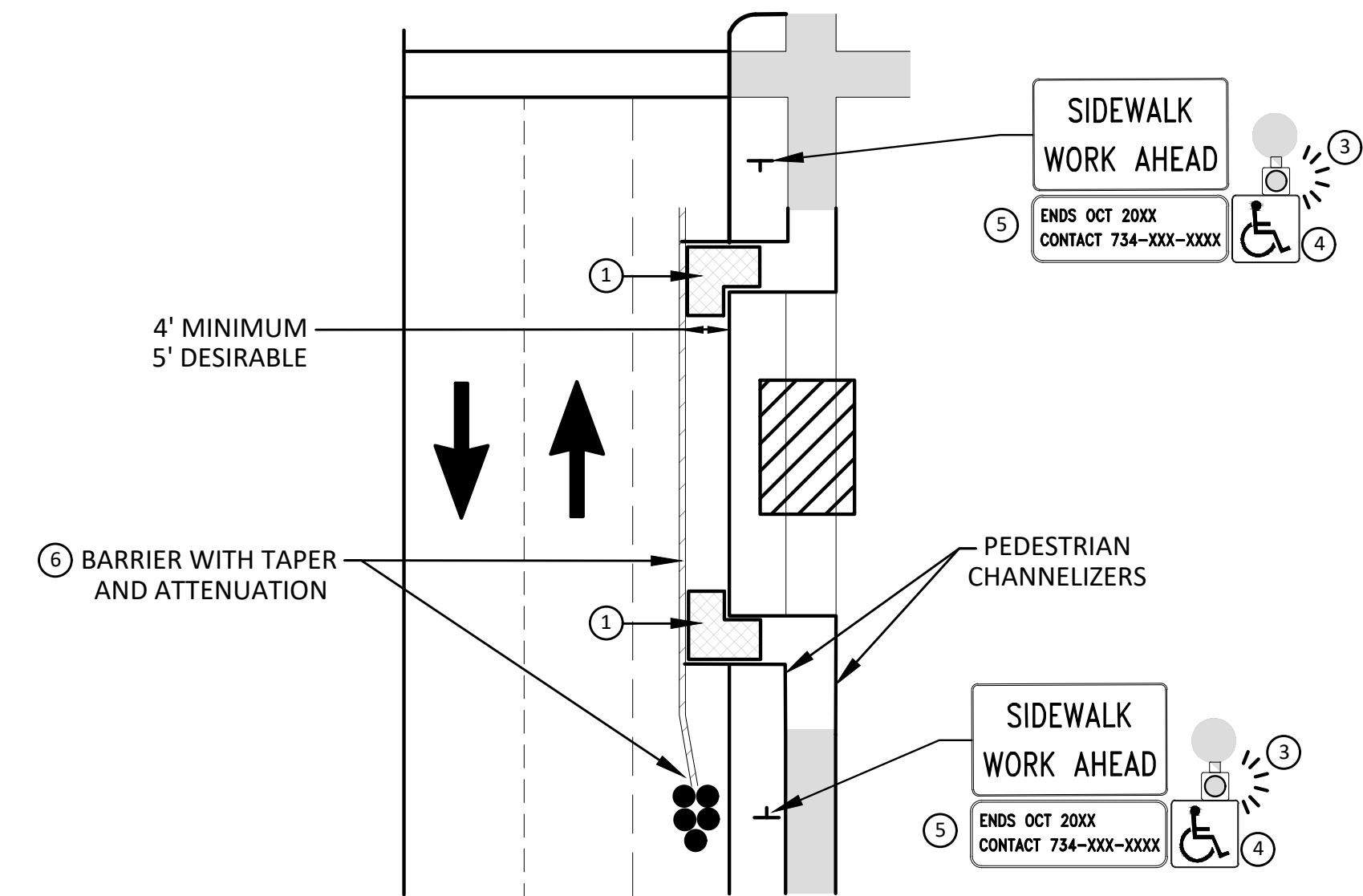


**BYPASS ON ADJACENT AVAILABLE
RIGHT OF WAY
BYPASS TYPE A**

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED
SPEED OF 45 MPH OR LESS.



**SIDEWALK BYPASS USING PARKING OR
SHOULDER ON LOW SPEED ROADWAY
BYPASS TYPE B**



**SIDEWALK BYPASS USING
SHOULDER OR PARKING LANE ON
HIGH SPEED ROADWAY
BYPASS TYPE C**

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED. PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE THIS WORK WITH THE ENGINEER A MINIMUM OF 72 HOURS (NOT INCLUDING WEEKENDS & HOLIDAYS) PRIOR TO THE BEGINNING OF WORK THAT REQUIRES A SIDEWALK CLOSURE.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATIONS OR PLACEMENT OF TRAFFIC CONTROL DEVICES HAS CAUSED A SITUATION THAT THE VISIBILITY OF A TRAFFIC CONTROL DEVICE IS REDUCED ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

1. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE UTILIZING BYPASSES.
2. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS AS SHOWN ON THE PROJECT PLANS.

SPECIFIC NOTES

1. TEMPORARY CURB RAMP WITH DETECTABLE WARNINGS.
2. S DEVICE TAPER 25 FEET LONG, RECOMMENDED WHEN THE CLOSED AREA WAS USED AS AN INTERMITTENT TRAFFIC LANE OR BYPASS LANE. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
3. AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHOULD BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.
4. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL BE POSTED AND AN ALTERNATE ROUTE SHALL BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.
5. TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHALL INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
6. SEE MMUTCD FOR GUIDANCE ON PLACEMENT AND USAGE OF BARRIER.

LEGEND

- ⊕ SIGN
- ▨ EXISTING PEDESTRIAN SURFACE
- ▩ WORK AREA
- ▤ PEDESTRIAN CHANNELIZATION DEVICE
- BARRIER
- ⌈] SIDEWALK BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DEVICE



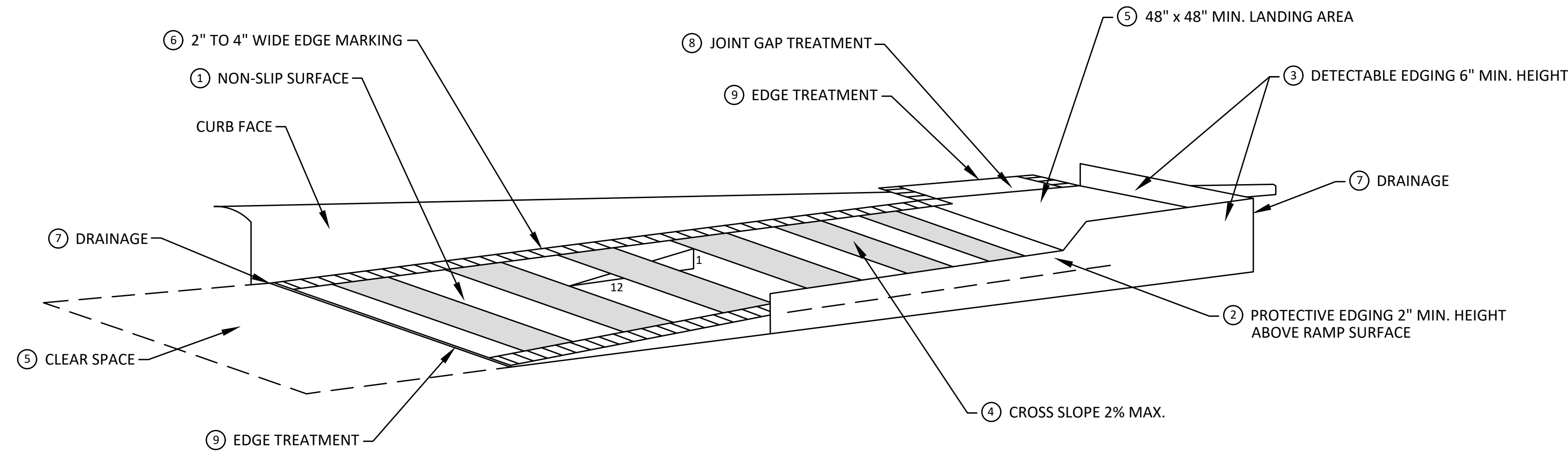
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|------|------------|----------------------|---------|-------|-----|
| 3 | 04/08/2022 | BID SET | BWA | BWA | C/E |
| 2 | 03/16/2022 | 70% DESIGN PLAN | BWA | BWA | C/E |
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN | BWA | BWA | C/E |



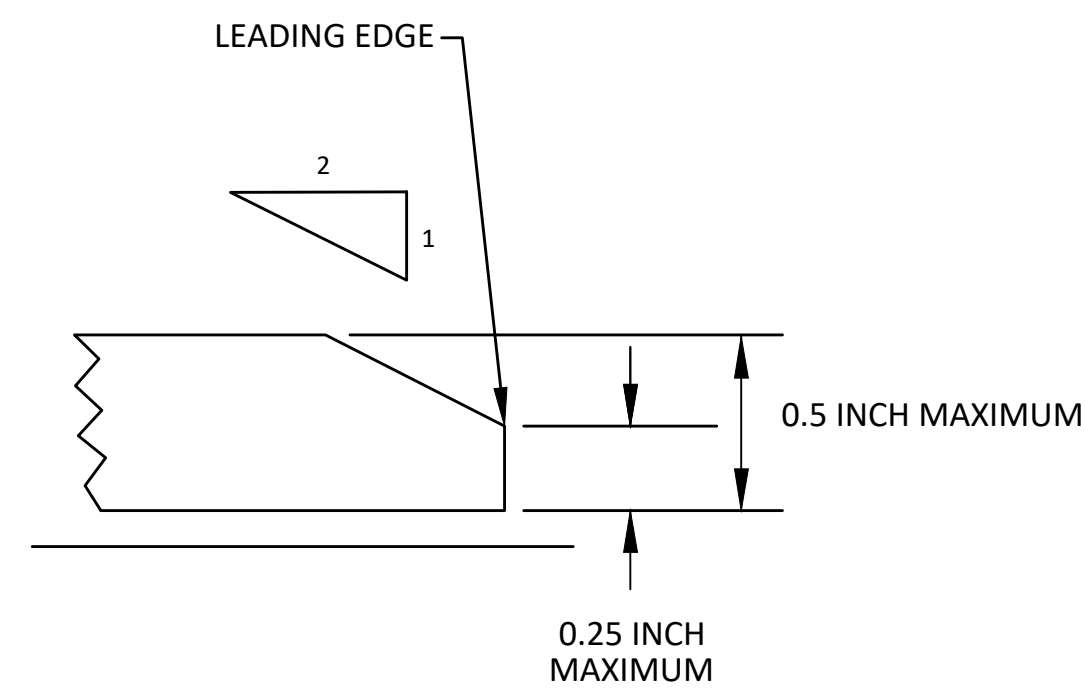
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GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT
PEDESTRIAN TRAFFIC CONTROL
TPAR BYPASS

SCALE: NTS
 DRAWING No. 2022-009-14

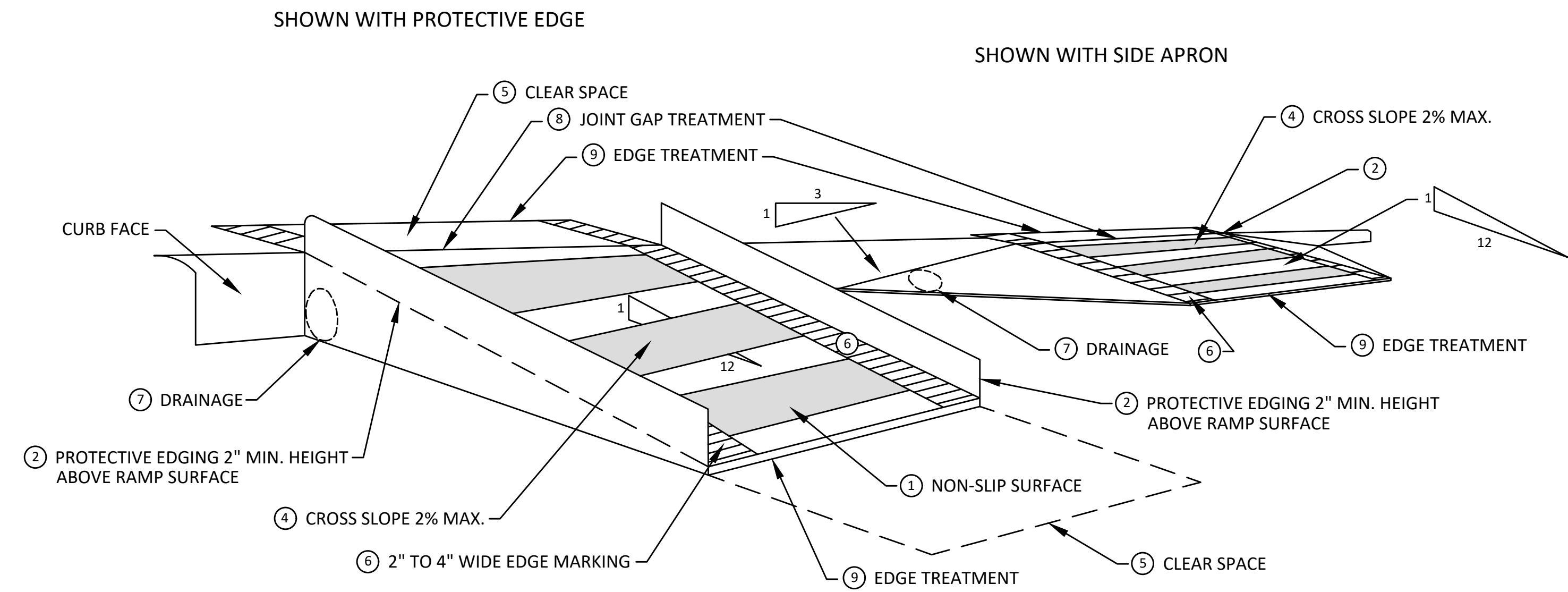
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**TEMPORARY CURB RAMP
PARALLEL TO CURB**



9 EDGE TREATMENT



**TEMPORARY CURB RAMP
PERPENDICULAR TO CURB**

SPECIFIC NOTES

- 1 CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
- 2 PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE PLACED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3. PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- 3 DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE PLACED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- 4 CURB RAMPS AND LANDINGS SHALL HAVE A 2% MAX. CROSS SLOPE.
- 5 CLEAR SPACE OF 48" x 48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- 6 THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR, 2" TO 4" WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
- 7 WATER FLOW IN THE GUTTER SYSTEM SHALL NOT BE IMPEDED.
- 8 LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
- 9 CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHOULD BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2" HEIGHT.



| REV. | DATE | DESCRIPTION |
|------|------------|----------------------|
| 3 | 04/08/2022 | BID SET |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |

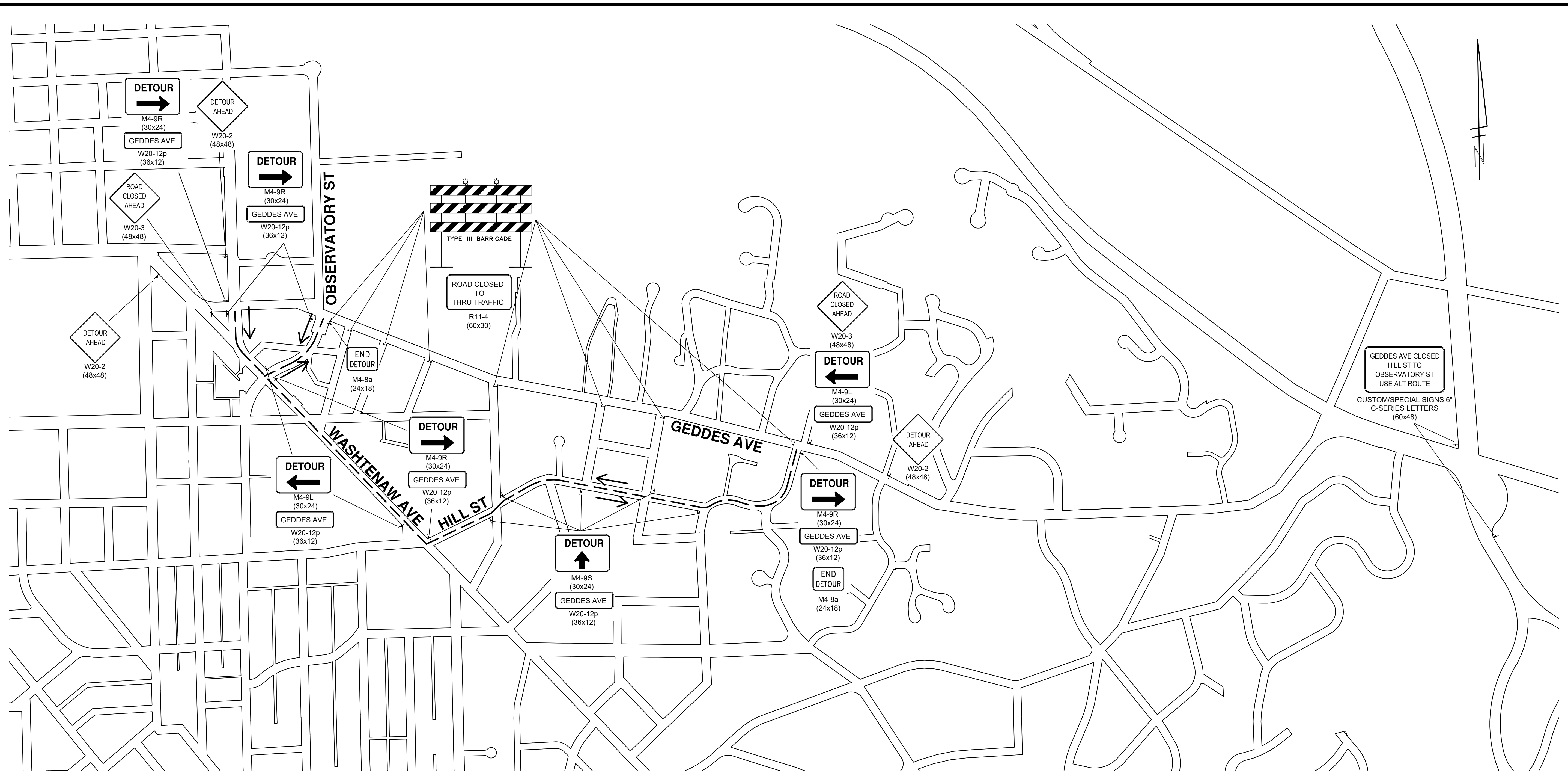
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PEDESTRIAN TRAFFIC CONTROL
TPAR RAMPS

SCALE: NTS
DRAWING No. 2022-009-15

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| TRAFFIC CONTROL SIGN | | |
|----------------------|---------------|----------|
| SIGN | NUMBER | QUANTITY |
| | W20-2 (48x48) | 3 |
| | W20-3 (48x48) | 2 |
| | M4-9R (30x24) | 6 |
| | M4-9S (30x24) | 5 |

| TRAFFIC CONTROL SIGN | | |
|----------------------|-----------------|----------|
| SIGN | NUMBER | QUANTITY |
| | M4-9L (30x24) | 3 |
| | W20-12p (36x12) | 14 |
| | R11-4 (60x30) | 8 |
| | M4-8a (24x18) | 2 |
| | CUSTOM (60x48) | 2 |

**GEDDES AVE DETOUR PHASE 1:
COMPLETE ROAD CLOSURE**

PROJECT START TO AUGUST 19

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
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GEDDES AVENUE
TRAFFIC CONTROL PLAN I

SCALE PLAN: 1" = 20'
 DRAWING No. 2022-009-16

SHEET No. 16 OF 53

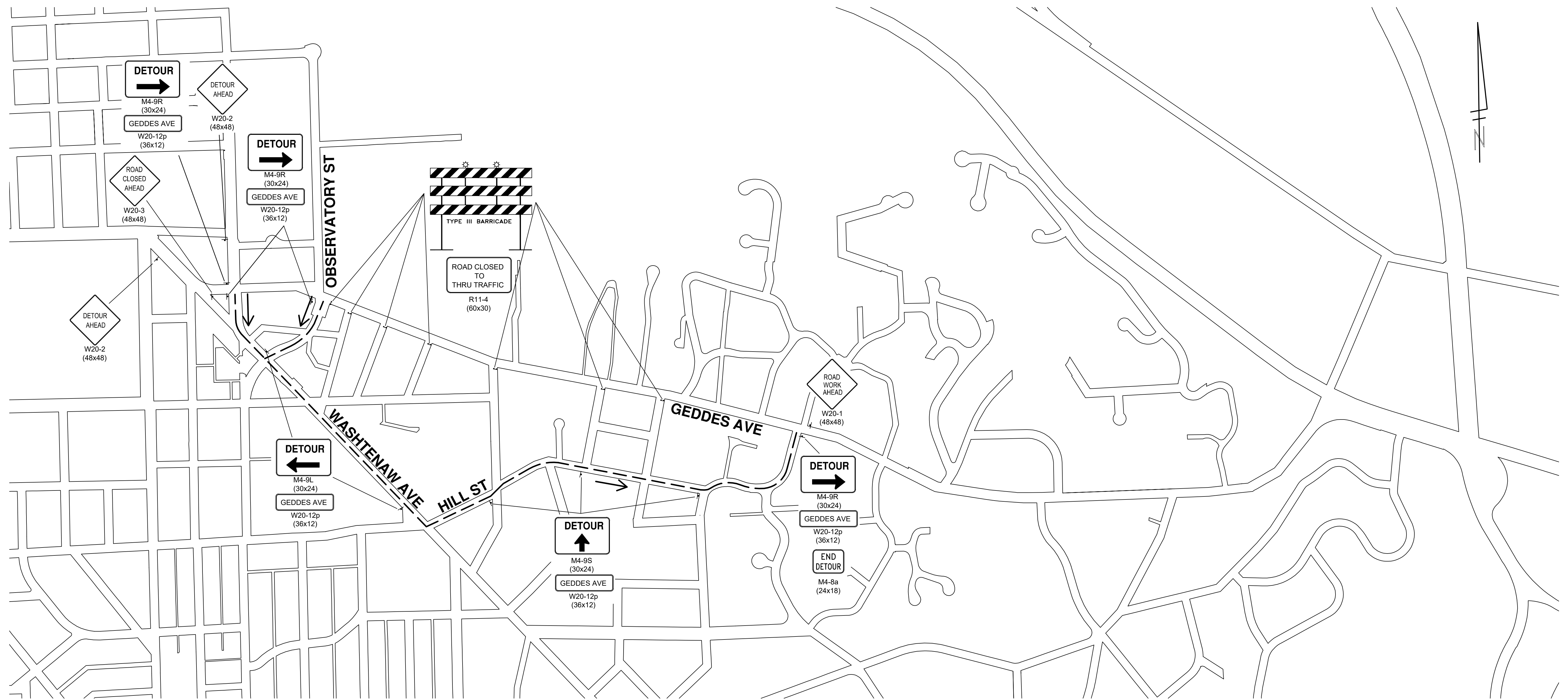
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| REV. | DATE | DESCRIPTION |
|------|------------|----------------------|
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 3 | 04/08/2022 | BID SET |

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**GEDDES AVE DETOUR PHASE 2:
EASTBOUND LANE CLOSURE**

AUGUST 20 TO PROJECT COMPLETION

| TRAFFIC CONTROL SIGN | | |
|----------------------|---------------|----------|
| SIGN | NUMBER | QUANTITY |
| | W20-2 (48x48) | 2 |
| | W20-3 (48x48) | 1 |
| | M4-9R (30x24) | 4 |
| | M4-9S (30x24) | 3 |

| TRAFFIC CONTROL SIGN | | |
|----------------------|-----------------|----------|
| SIGN | NUMBER | QUANTITY |
| | M4-9L (30x24) | 1 |
| | W20-12p (36x12) | 8 |
| | R11-4 (60x30) | 7 |
| | M4-8a (24x18) | 1 |
| | W20-1 (48x48) | 1 |

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GEDDES AVENUE
TRAFFIC CONTROL PLAN II

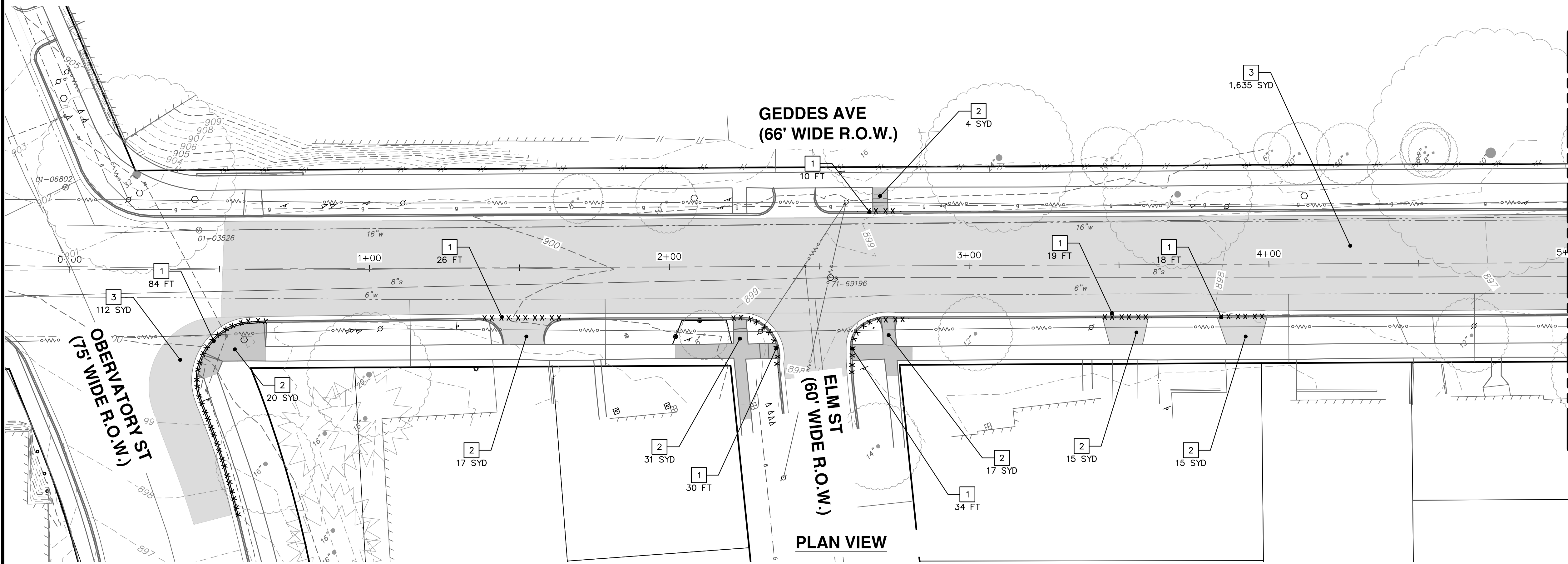
SCALE PLAN: 1" = 20'
 DRAWING No. 2022-009-17

811
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| REV. | DATE | DESCRIPTION |
|------|------------|----------------------|
| 3 | 04/08/2022 | BID SET |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |

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PLAN VIEW

| REMOVAL KEY | |
|-------------|---|
| KEY | DESCRIPTION |
| 1 | REMOVE CONCRETE CURB OR CURB & GUTTER, ANY TYPE |
| 2 | REMOVE CONCRETE SIDEWALK AND PAVEMENT - ANY THICKNESS |
| 3 | HMA SURFACE REMOVE* |
| 4 | REMOVE CONCRETE PEDESTAL AND STREET LIGHT |
| 5 | INLET FILTER |
| 7 | TREE, REM. 6" TO 24" |
| 10 | DR STRUCTURE, REMOVE |
| 11 | SEWER, ANY SIZE OR DEPTH, ABANDON W/ FLOWABLE FILL |
| 15 | SEWER, ANY SIZE OR DEPTH, REMOVE |

*SAWCUT FULL DEPTH AT REMOVAL LIMITS



PLAN VIEW

| EXISTING STORM SEWER STRUCTURE REMOVAL TABLE | | |
|--|--------------|-----------------------|
| STRUCTURE | DEPTH (Feet) | REMOVE |
| 88-63727 | 7.45 | 2' Inlet (Cover K) |
| 92-58392 | 7.80 | 4' Storm MH (Cover B) |
| 88-63714 | 2.50 | 2' Inlet (Cover K) |
| 88-64458 | 3.60 | 2' Inlet (Cover K) |
| 92-58393 | 3.70 | 4' Storm MH (Cover B) |
| 88-63716 | 2.20 | 2' Inlet (Cover K) |



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| REV. | DATE | DRAWN | CHECKED |
|------|------------|-------|---------|
| 3 | 04/08/2022 | BWA | C/E |
| 2 | 03/16/2022 | BWA | C/E |
| 1 | 02/07/2022 | BWA | C/E |

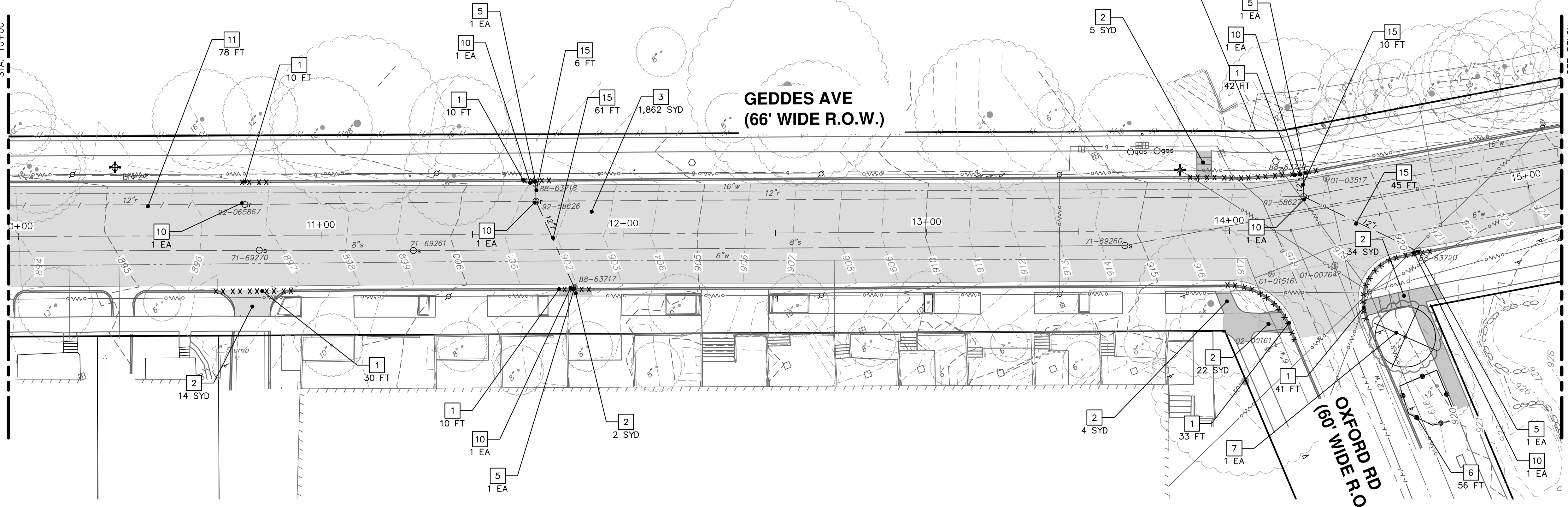
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GEDDES AVENUE
EXISTING CONDITIONS, REMOVALS STA 0+00 TO 10+00

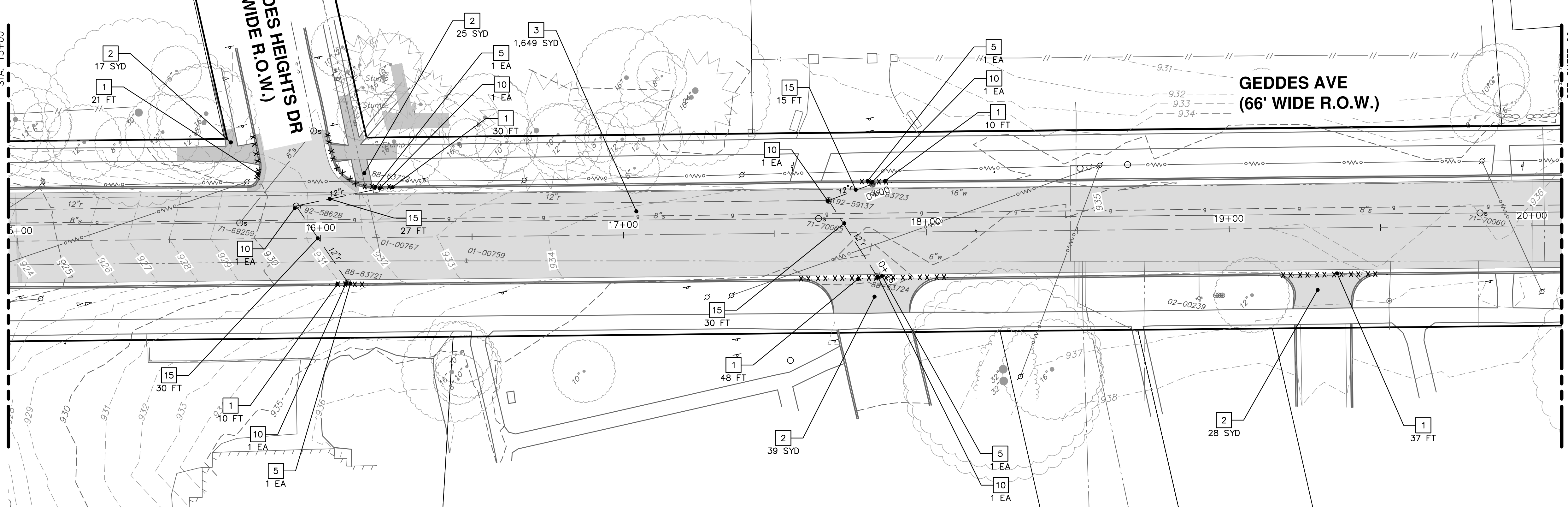
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2022-009-18

SEE SHEET 18
STA: 10+00



PLAN VIEW

SEE ABOVE
STA: 15+00



PLAN VIEW

| REMOVAL KEY | |
|-------------|---|
| KEY | DESCRIPTION |
| 1 | REMOVE CONCRETE CURB OR CURB & GUTTER, ANY TYPE |
| 2 | REMOVE CONCRETE SIDEWALK AND PAVEMENT - ANY THICKNESS |
| 3 | HMA SURFACE REMOVE* |
| 5 | INLET FILTER |
| 6 | PROTECTIVE FENCING |
| 7 | TREE, REM, 6" TO 24" |
| 10 | DR STRUCTURE, REMOVE |
| 11 | SEWER, ANY SIZE OR DEPTH, ABANDON W/ FLOWABLE FILL |
| 15 | SEWER, ANY SIZE OR DEPT, REMOVE |

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

| EXISTING STORM SEWER STRUCTURE REMOVAL TABLE | | |
|--|--------------|-----------------------|
| STRUCTURE | DEPTH (Feet) | REMOVE |
| 92-065867 | 4.30 | 4' Storm MH (Cover B) |
| 88-63718 | 4.00 | 2' Inlet (Cover K) |
| 92-58626 | 7.05 | 4' Storm MH (Cover B) |
| 88-63717 | 3.00 | 2' Inlet (Cover K) |
| 88-63719 | 3.10 | 2' Inlet (Cover K) |
| 92-58627 | 4.90 | 4' Storm MH (Cover B) |
| 88-63720 | 1.90 | 2' Inlet (Cover K) |
| 88-63722 | 2.90 | 2' Inlet (Cover K) |
| 92-58628 | 4.80 | 4' Storm MH (Cover B) |
| 88-63721 | 2.80 | 2' Inlet (Cover K) |
| 88-63723 | 3.10 | 2' Inlet (Cover K) |
| 92-59137 | 4.20 | 4' Storm MH (Cover B) |
| 88-63724 | 2.50 | 2' Inlet (Cover K) |



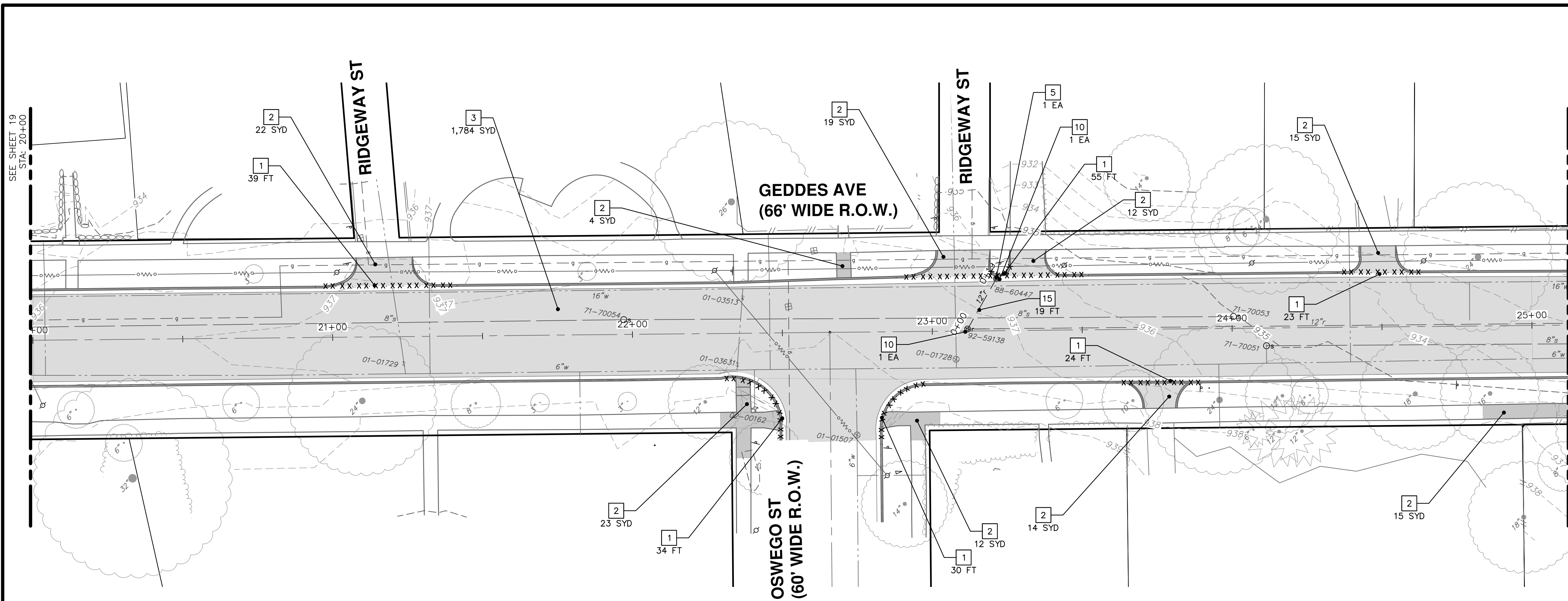
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| REV. | DATE | DESCRIPTION |
|------|------------|----------------------|
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 3 | 04/08/2022 | BID SET |

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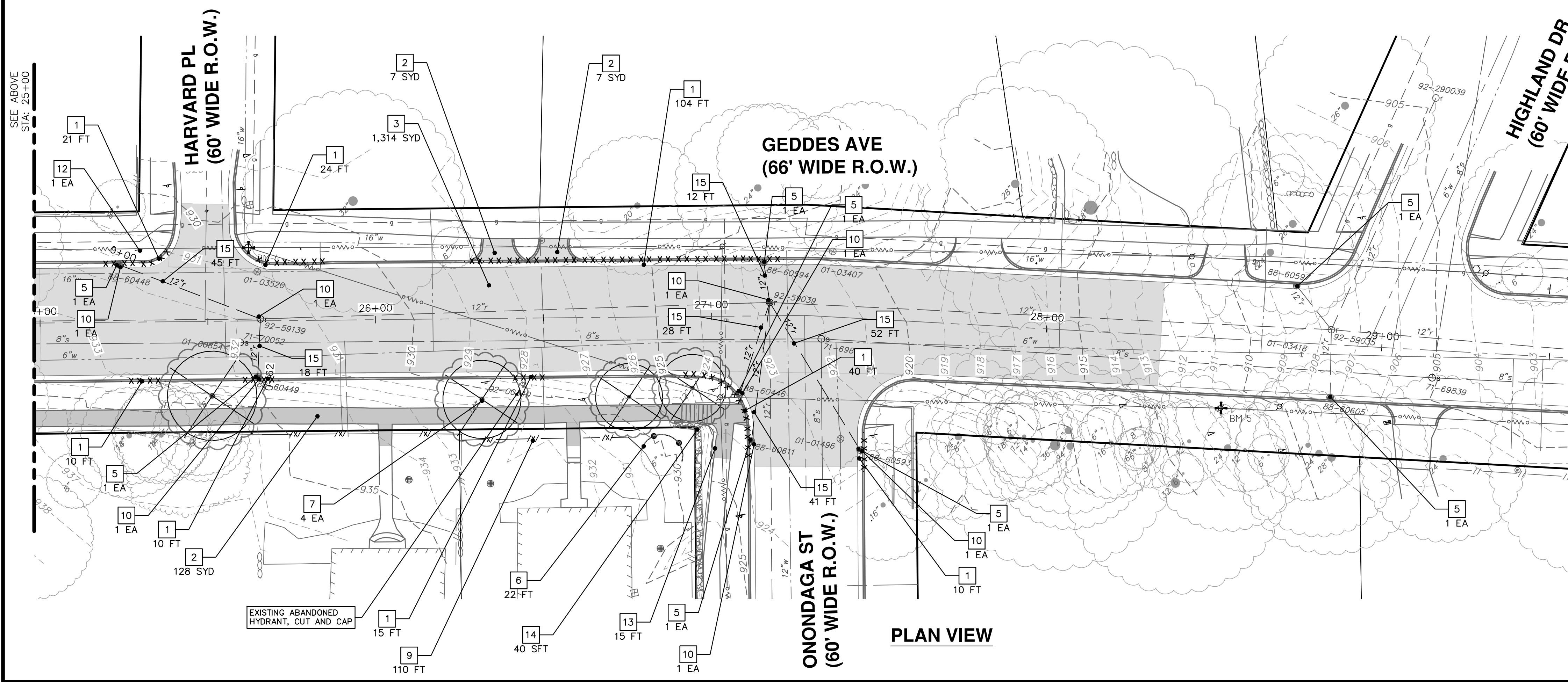
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GEDDES AVENUE
EXISTING CONDITIONS, REMOVALS STA 10+00 TO 20+00
DRAWING No. 2022-009-19
PROFILE: 1" = 2'



PLAN VIEW

| REMOVAL KEY | |
|-------------|---|
| KEY | DESCRIPTION |
| 1 | REMOVE CONCRETE CURB OR CURB & GUTTER, ANY TYPE |
| 2 | REMOVE CONCRETE SIDEWALK AND PAVEMENT - ANY THICKNESS |
| 3 | HMA SURFACE REMOVE* |
| 5 | INLET FILTER |
| 6 | PROTECTIVE FENCING |
| 7 | TREE, REM, 6" TO 24" |
| 9 | REMOVE AND SALVAGE FENCE |
| 10 | DR STRUCTURE, REMOVE |
| 12 | REMOVE SIGN |
| 13 | REMOVE CONCRETE WALL |
| 14 | REMOVE BOULDER WALL |
| 15 | SEWER, ANY SIZE OR DEPTH, REMOVE |

*SAWCUT FULL DEPTH AT REMOVAL LIMITS



PLAN VIEW

| EXISTING STORM SEWER STRUCTURE REMOVAL TABLE | | |
|--|--------------|-----------------------|
| STRUCTURE | DEPTH (Feet) | REMOVE |
| 88-60447 | 4.40 | 2' Inlet (Cover K) |
| 92-59138 | 10.55 | 4' Storm MH (Cover B) |
| 88-60448 | 4.40 | 2' Inlet (Cover K) |
| 92-59139 | 8.95 | 4' Storm MH (Cover B) |
| 88-60449 | 3.85 | 2' Inlet (Cover K) |
| 88-60594 | 4.60 | 2' Inlet (Cover K) |
| 92-59039 | 9.00 | 4' Storm MH (Cover B) |
| 88-60446 | 3.10 | 2' Inlet (Cover K) |
| 88-60611 | 3.85 | 2' Inlet (Cover K) |
| 88-60593 | 2.40 | 2' Inlet (Cover K) |

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SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2022-009-20

SHEET No. 20 OF 53

GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

GEDDES AVENUE

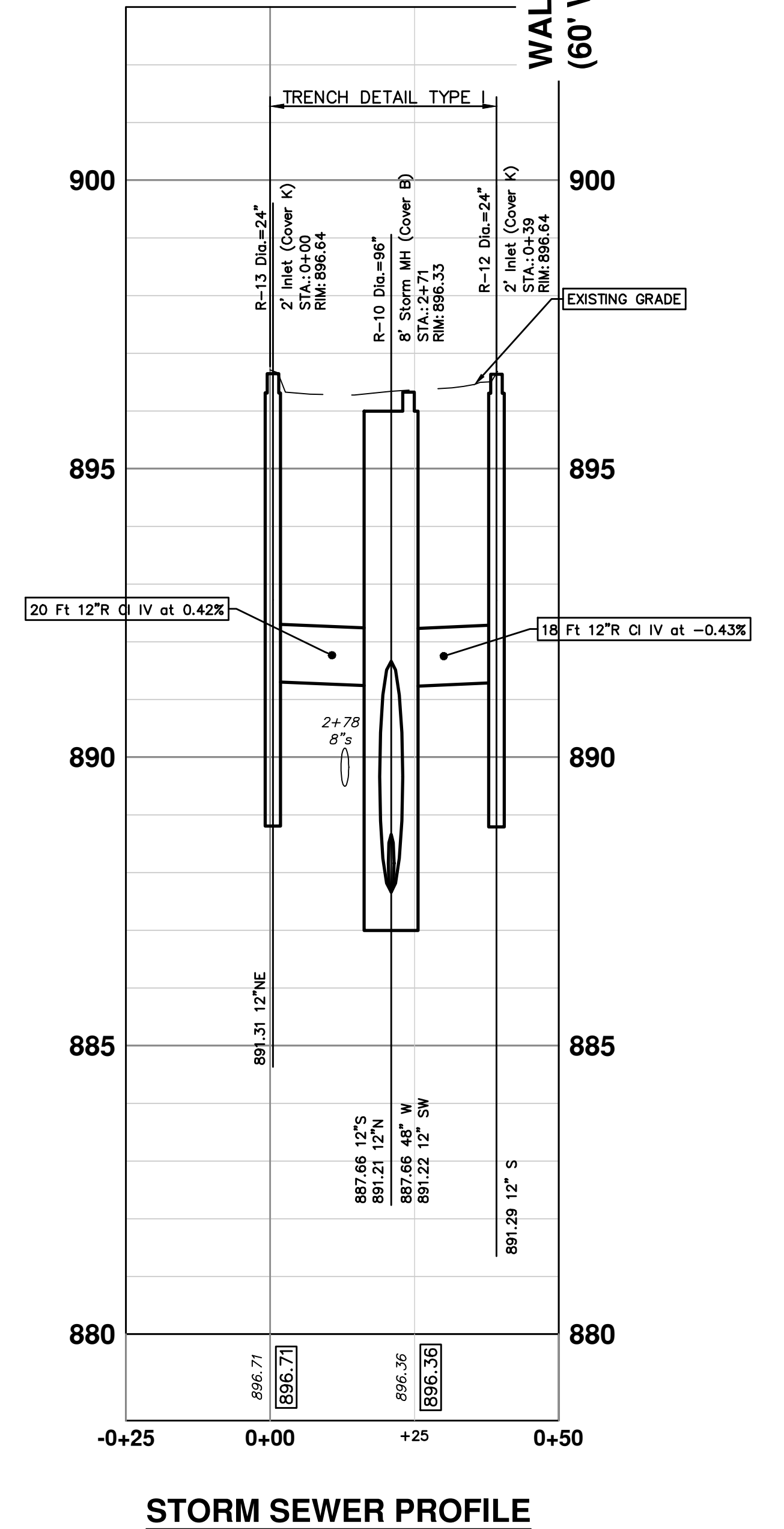
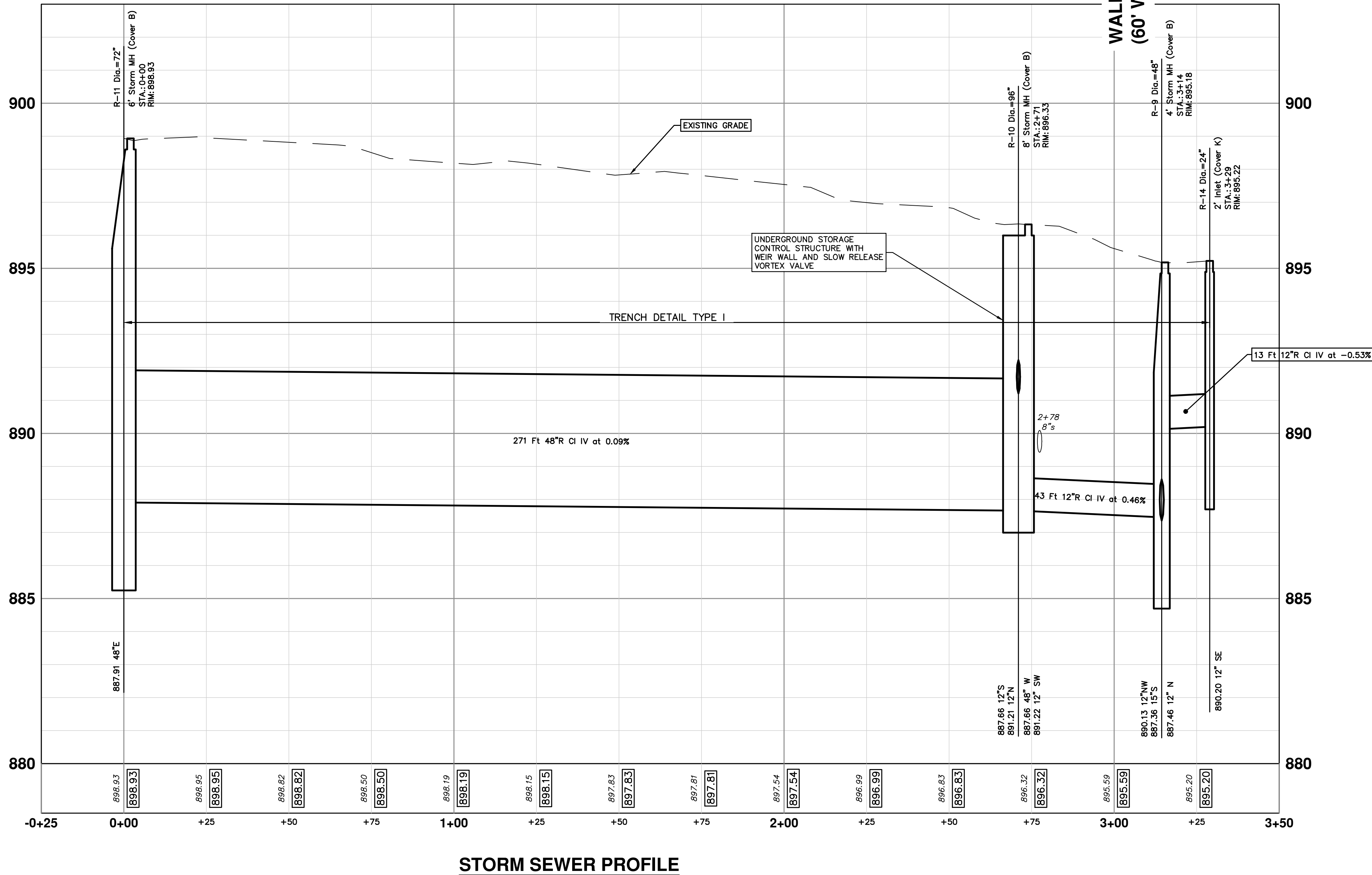
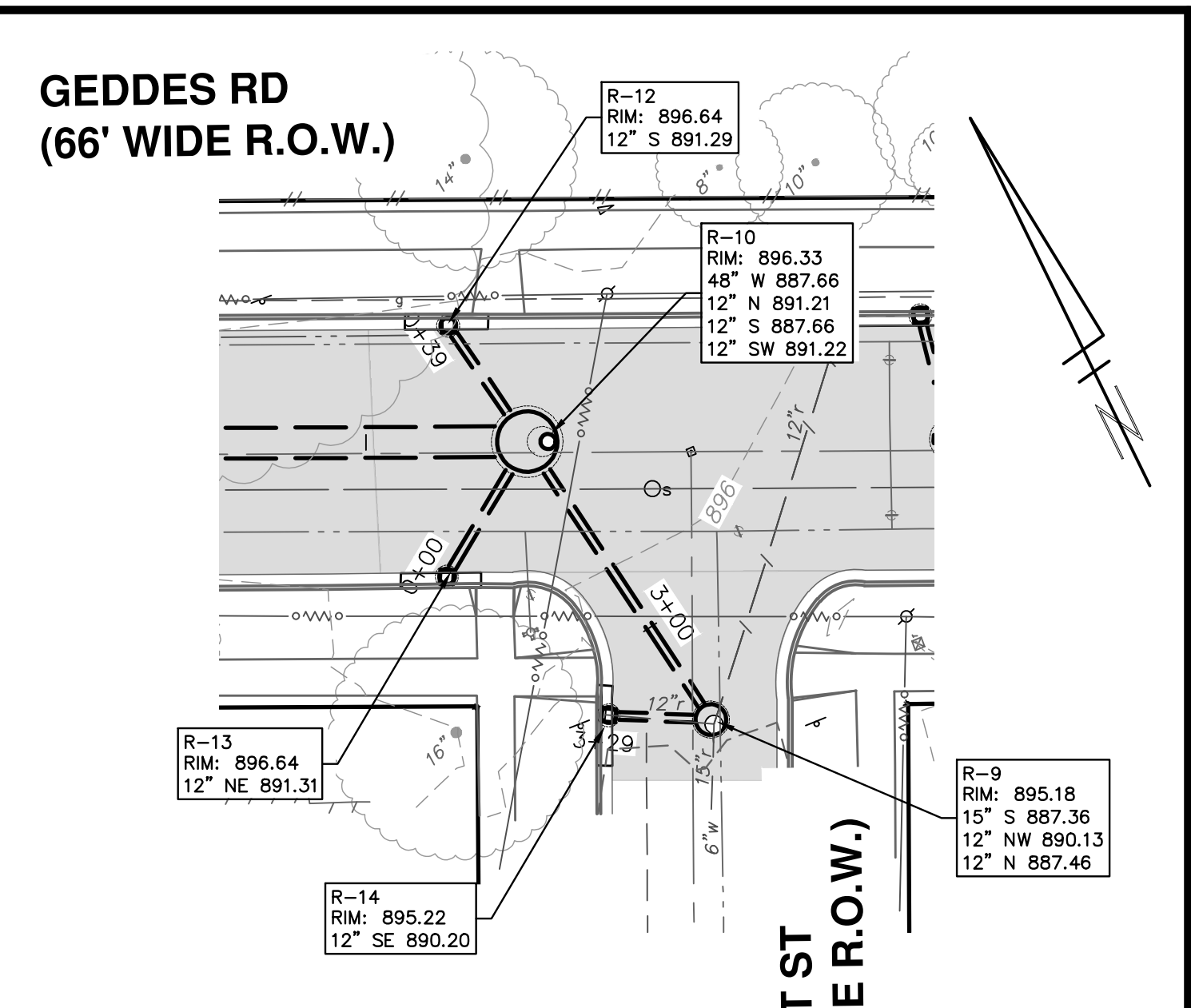
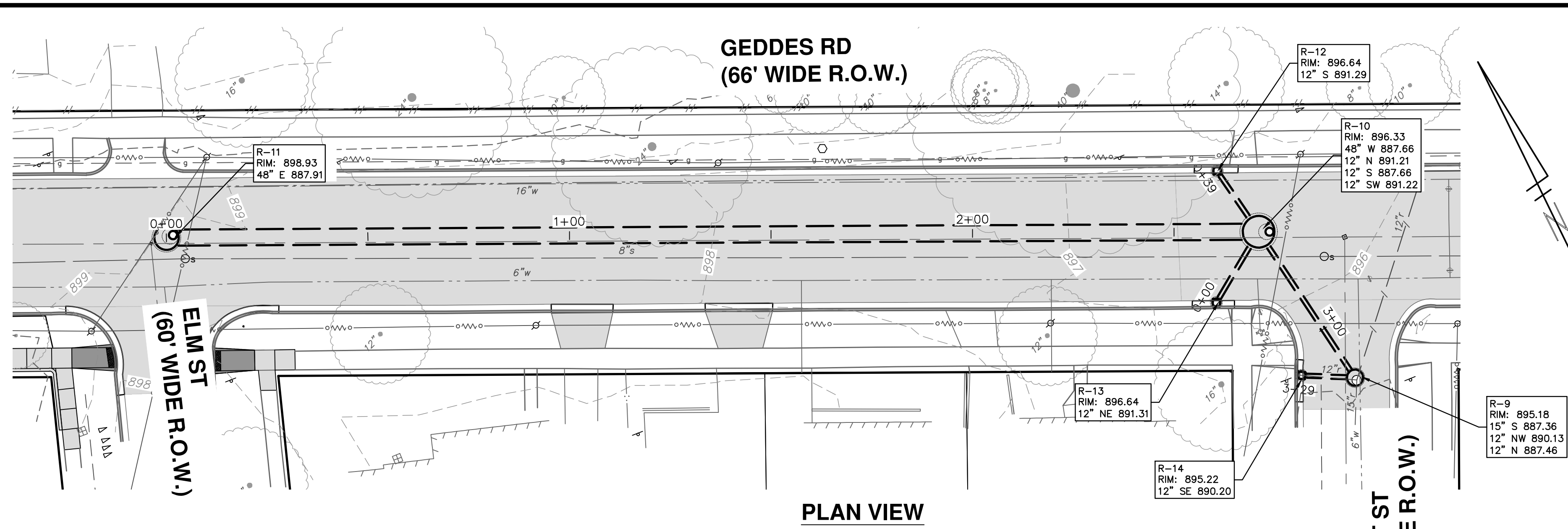
EXISTING CONDITIONS, REMOVALS STA 20+00 TO 30+00

| REV. | DATE | DESCRIPTION |
|------|------------|----------------------|
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 3 | 04/08/2022 | BID SET |

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SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2022-009-21

SHEET No. 21 OF 53

GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

GEDDES AVENUE

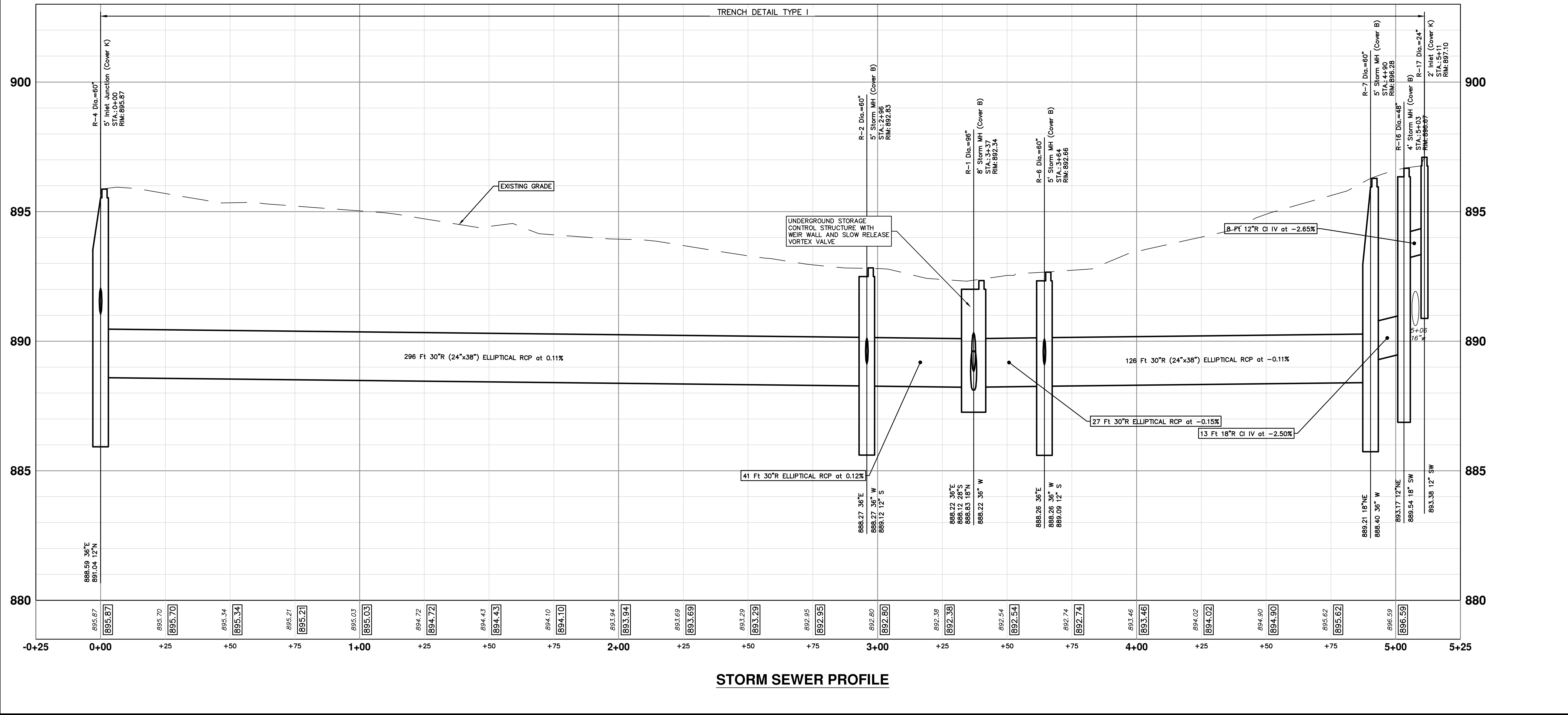
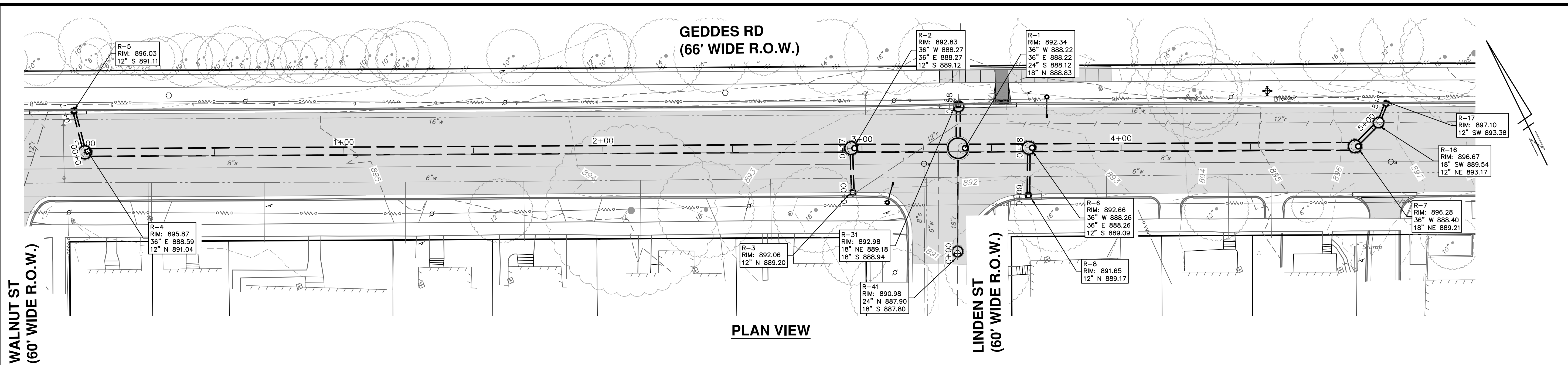
STORM WATER PLAN I

| REV. | DATE | DESCRIPTION |
|------|------------|----------------------|
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 3 | 04/08/2022 | BID SET |

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| REV. | DATE | DESCRIPTION |
|------|------------|----------------------|
| 3 | 04/08/2022 | BID SET |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |

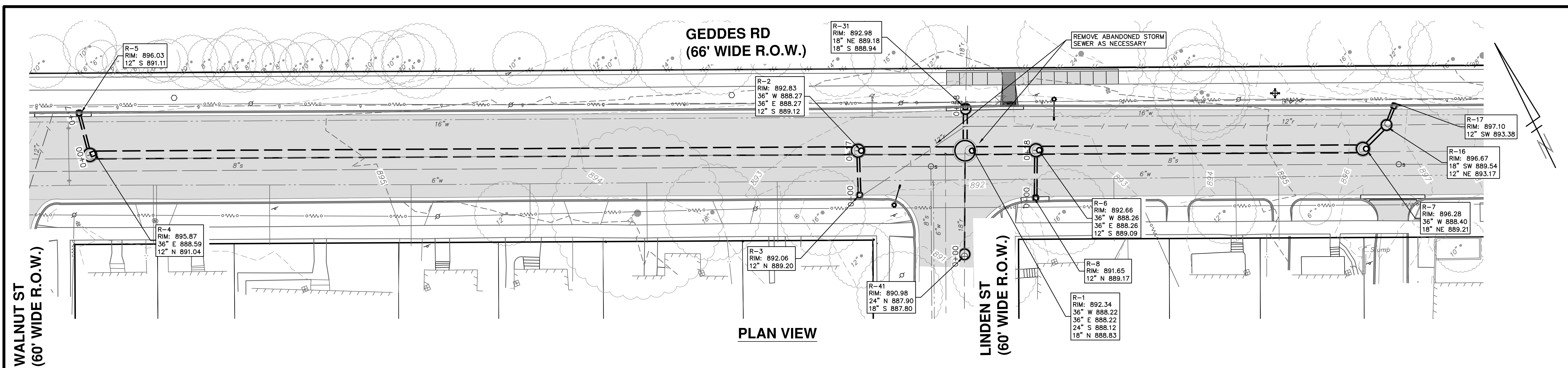
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 GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT
 GEDDES AVENUE
 STORM WATER PLAN II

SCALE PLAN: 1" = 20'
 PROFILE: 1" = 2'

DRAWING No. 2022-009-22

SHEET No. 22 OF 53

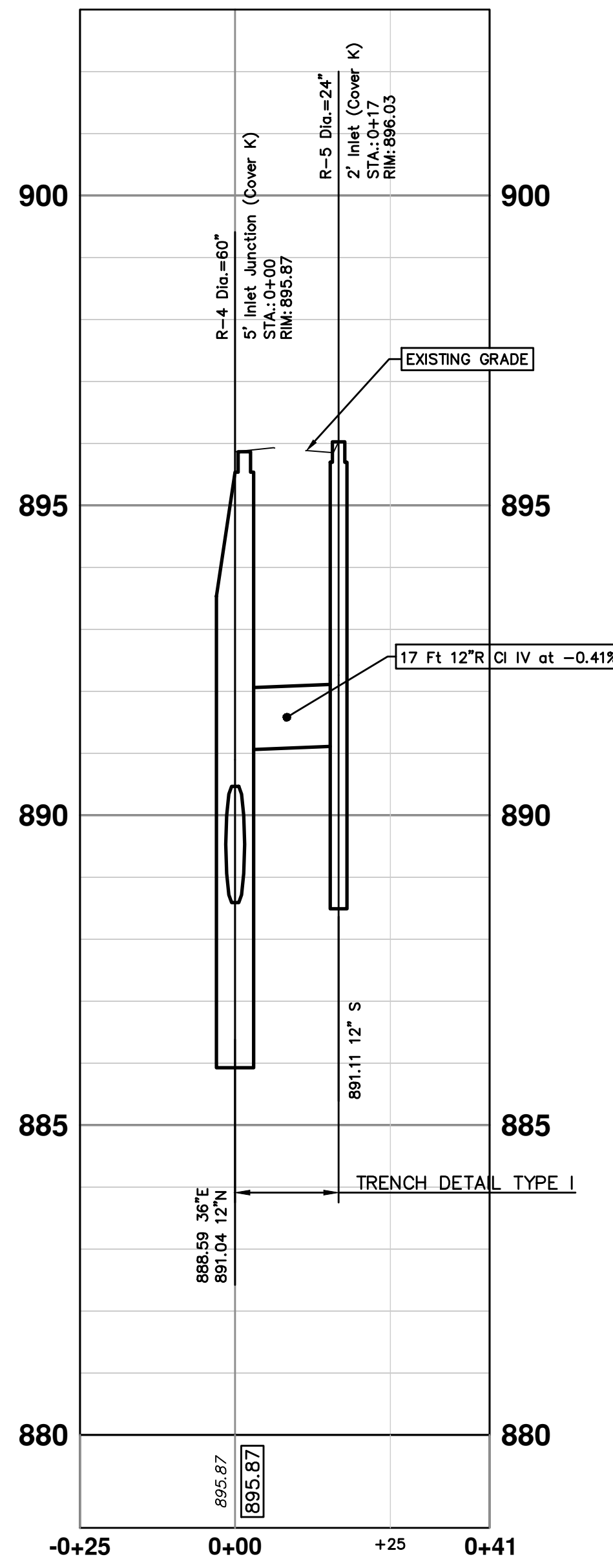
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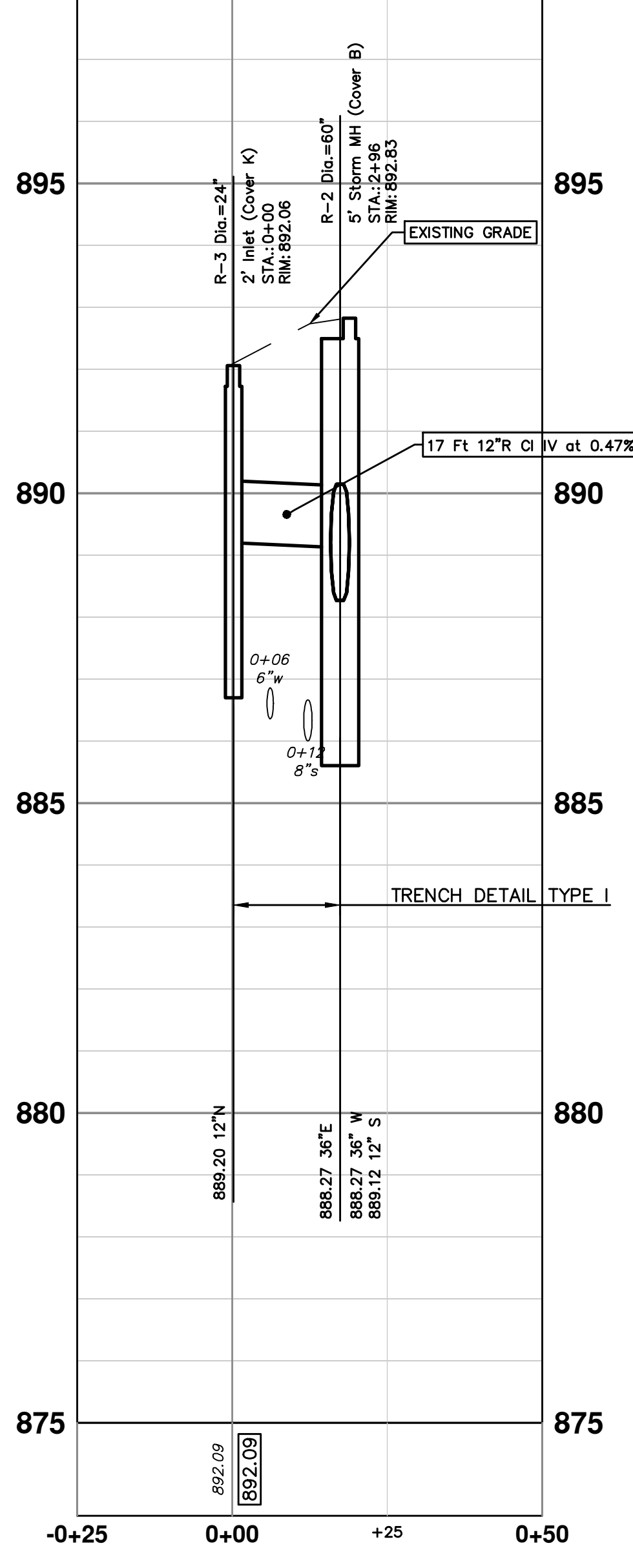
WALNUT ST
(60' WIDE R.O.W.)

LINDEN ST
(60' WIDE R.O.W.)

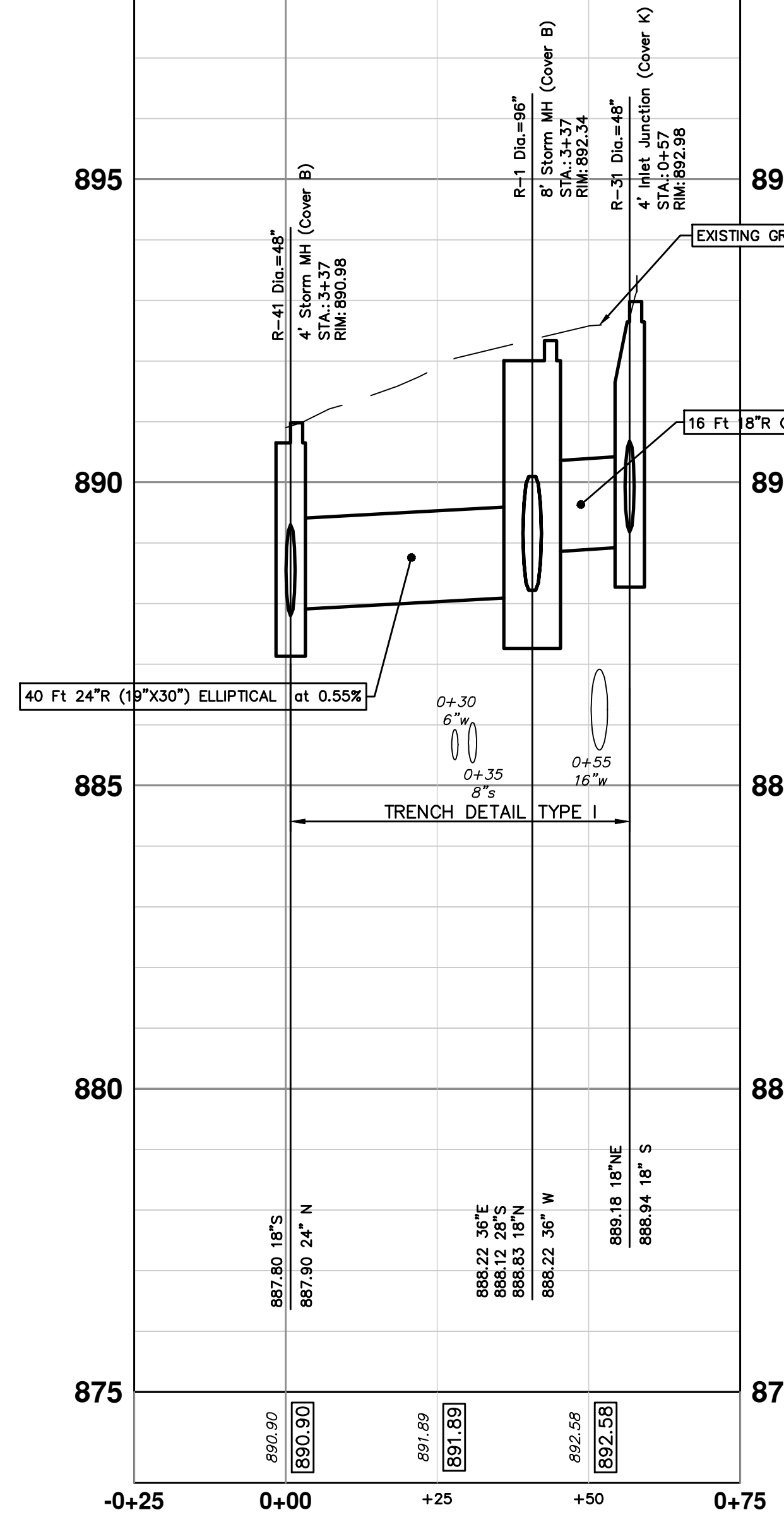
PLAN VIEW



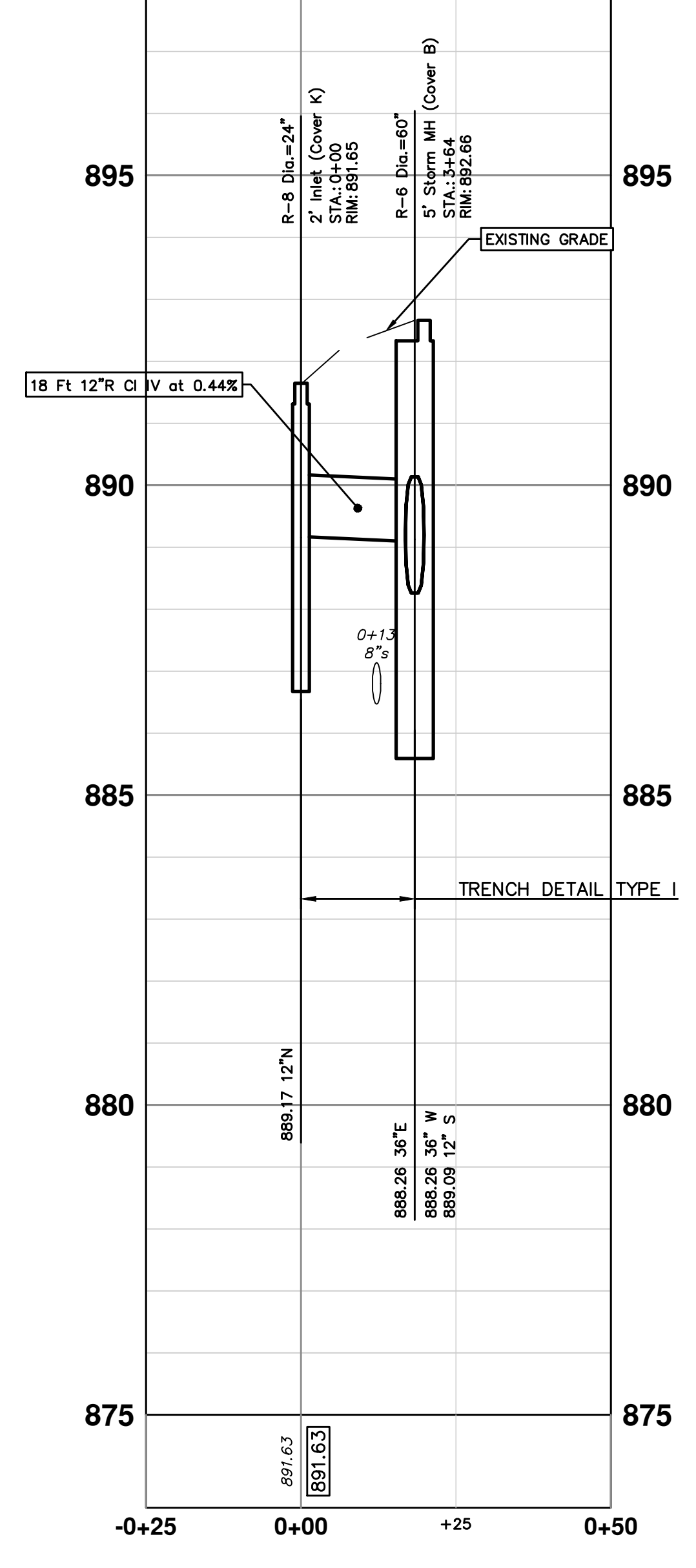
STORM SEWER PROFILE



STORM SEWER PROFILE



STORM SEWER PROFILE



STORM SEWER PROFILE

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

GEDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

GEDDES AVENUE

STORM WATER PLAN III

811

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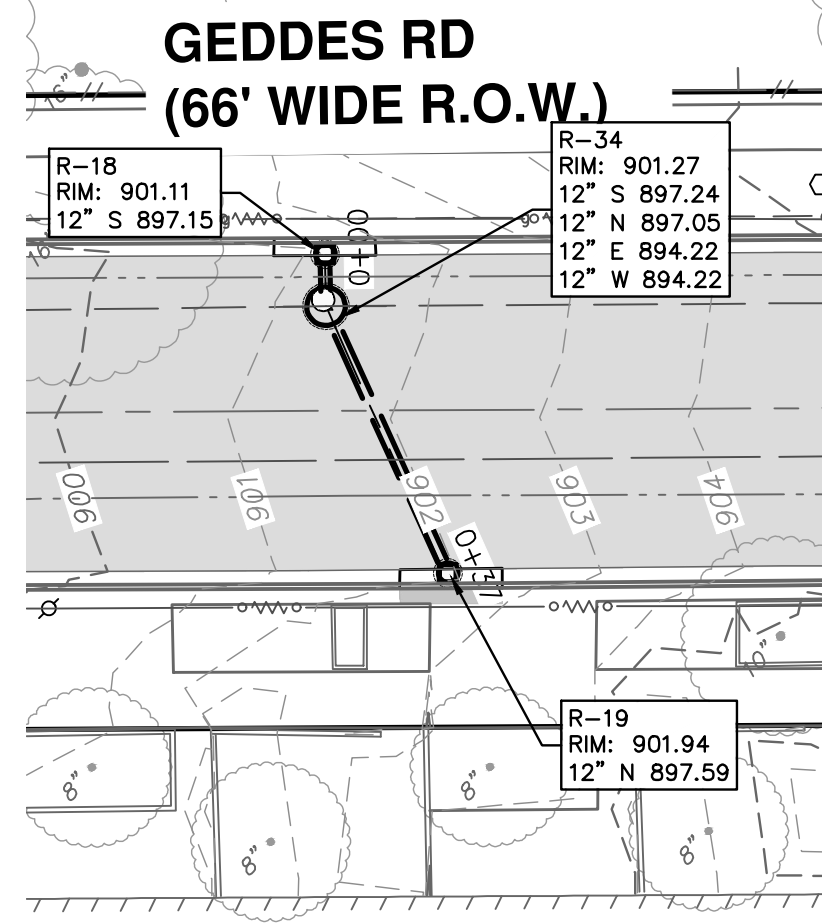
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|------|----------------------|------------|-------|---------|
| 3 | BID SET | 04/08/2022 | BWA | CJE |
| 2 | 70% DESIGN PLAN | 03/16/2022 | BWA | CJE |
| 1 | 30% PRELIMINARY PLAN | 02/07/2022 | BWA | CJE |

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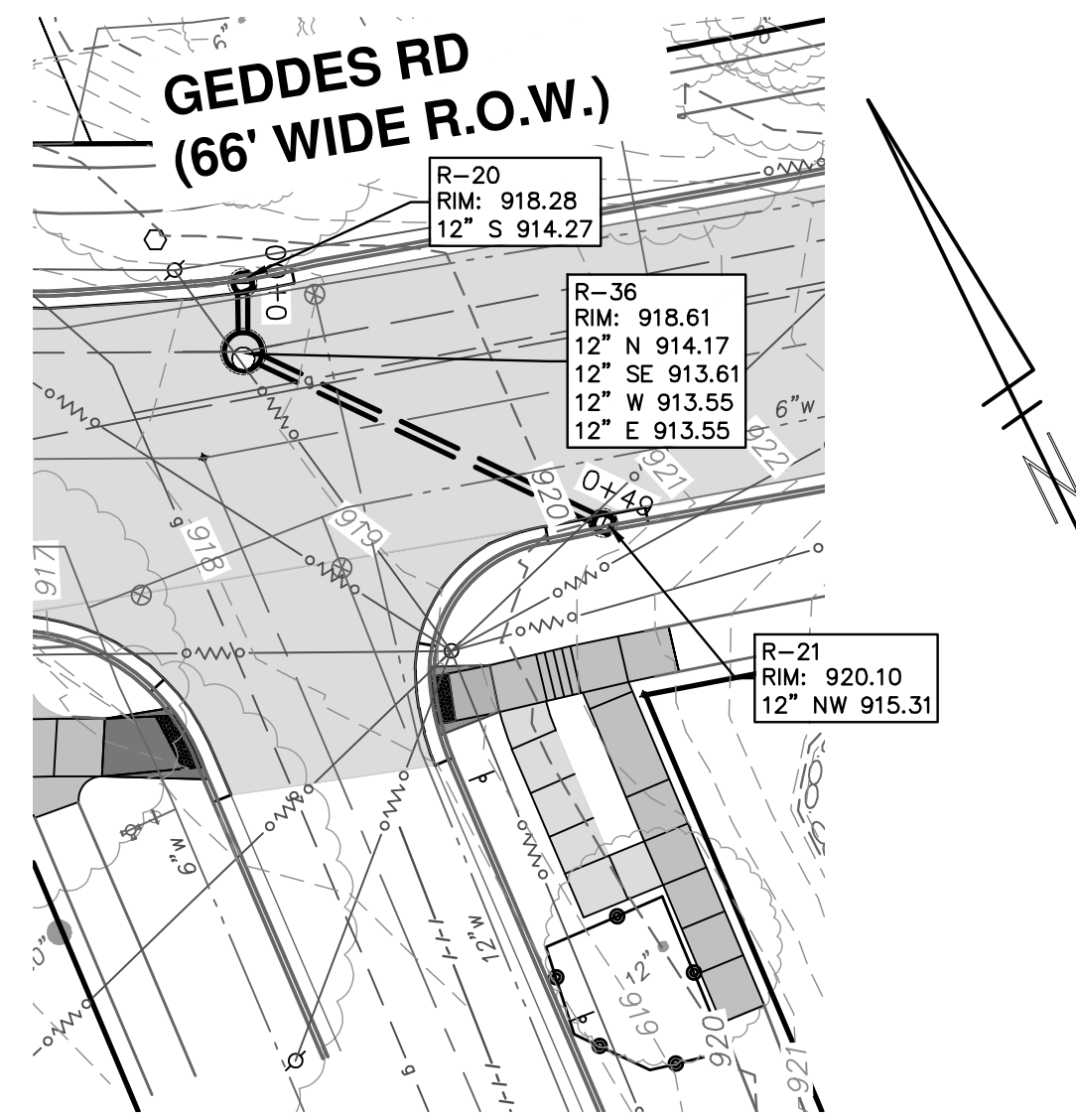
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2022-009-23

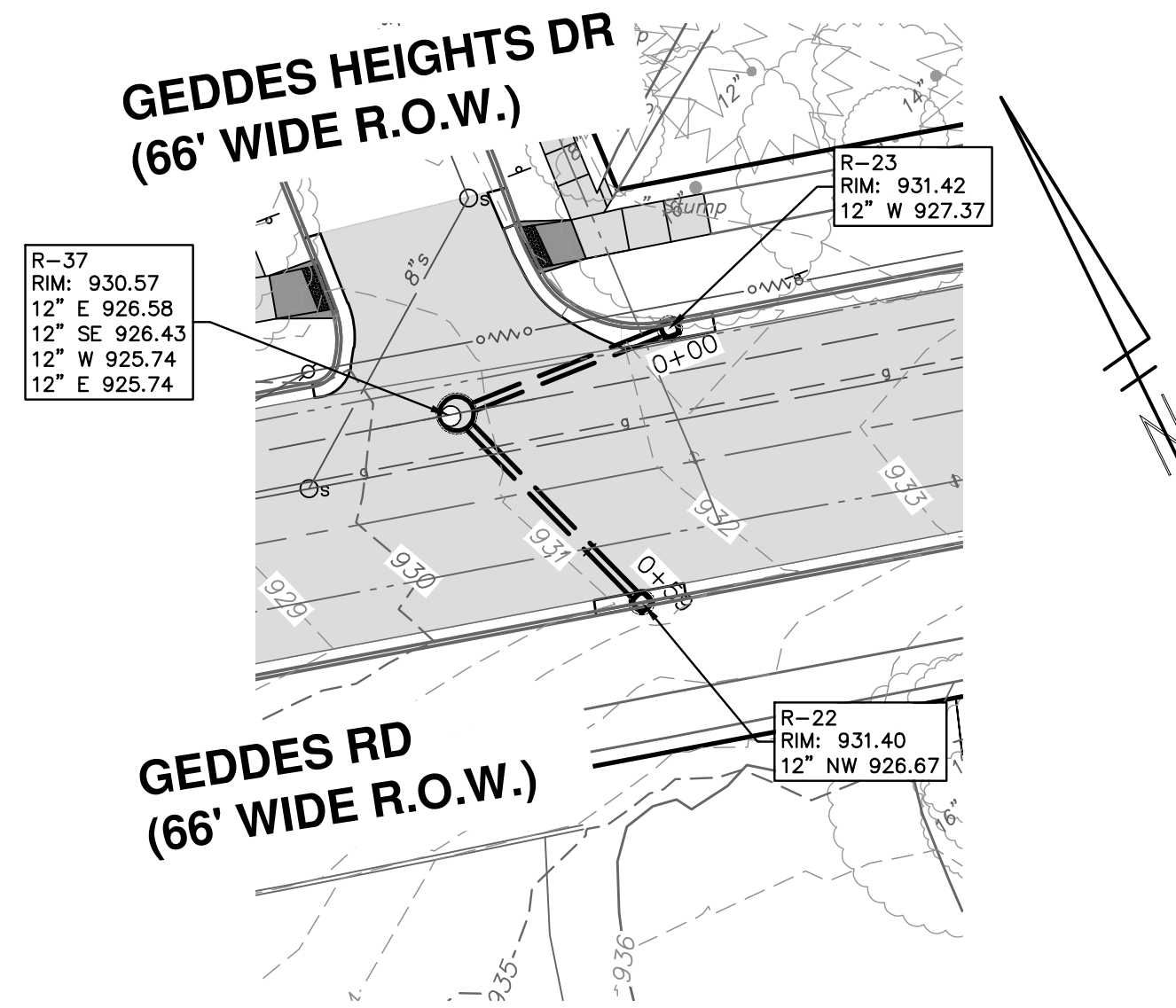
SHEET No. 23 OF 53



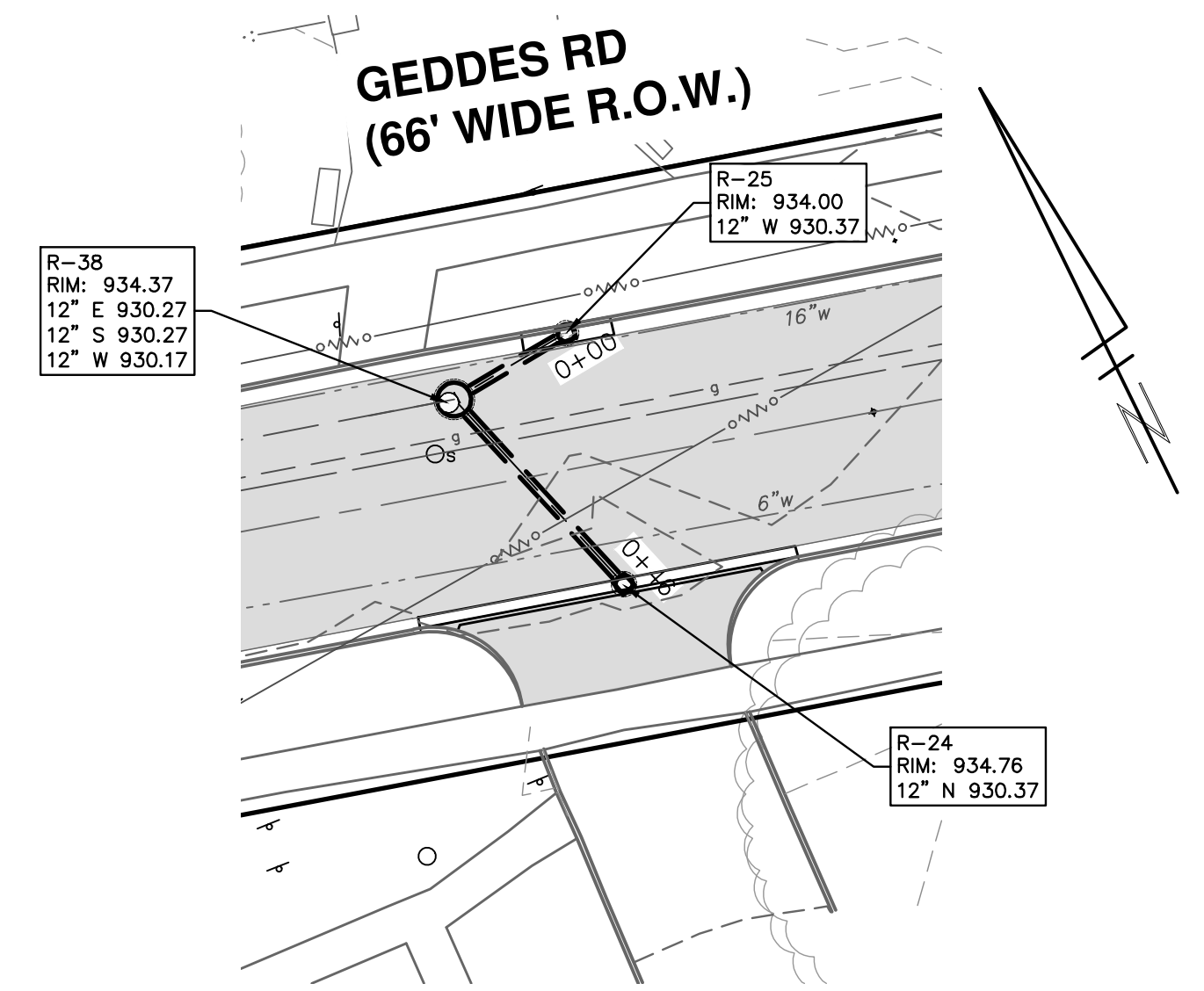
PLAN VIEW



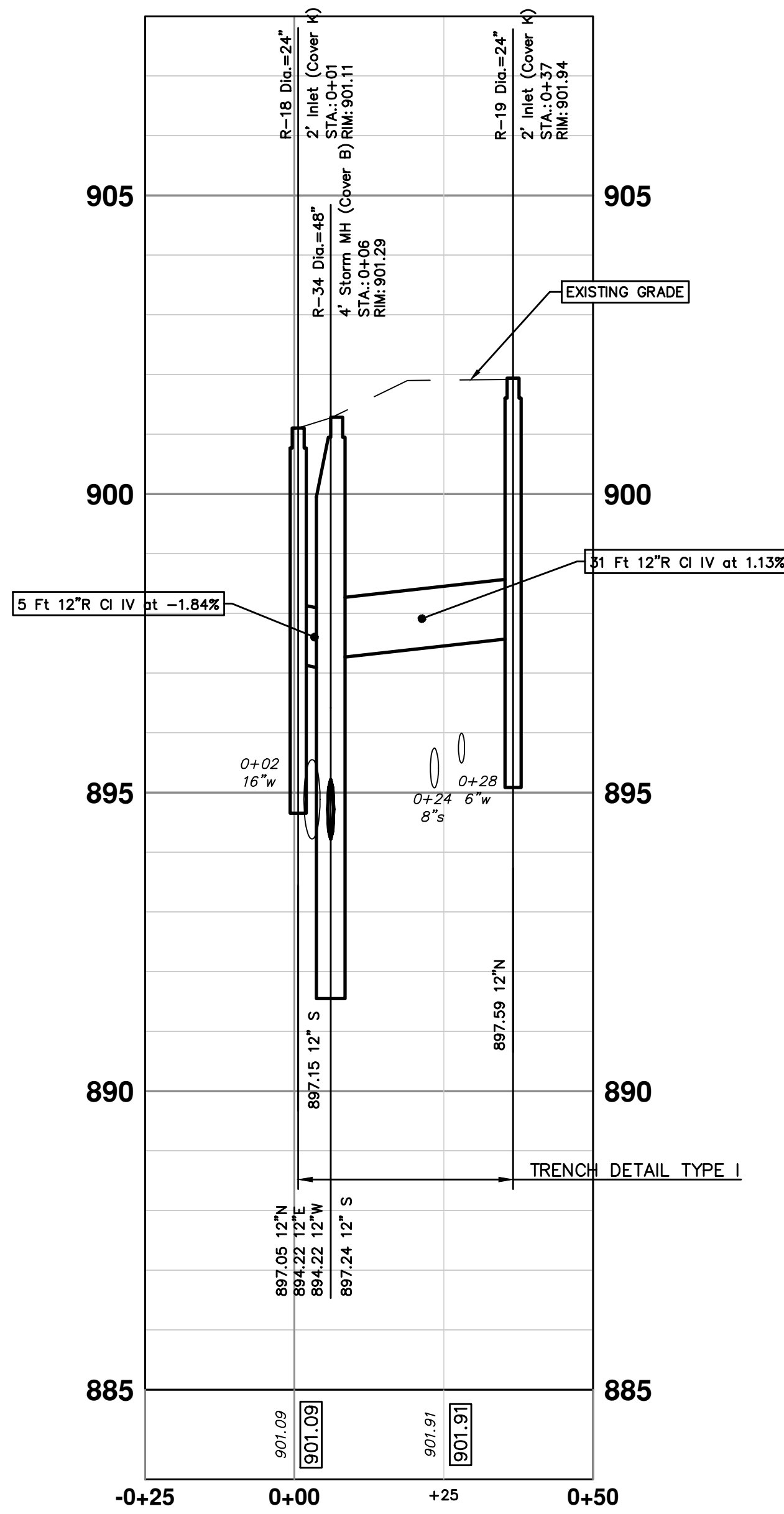
PLAN VIEW



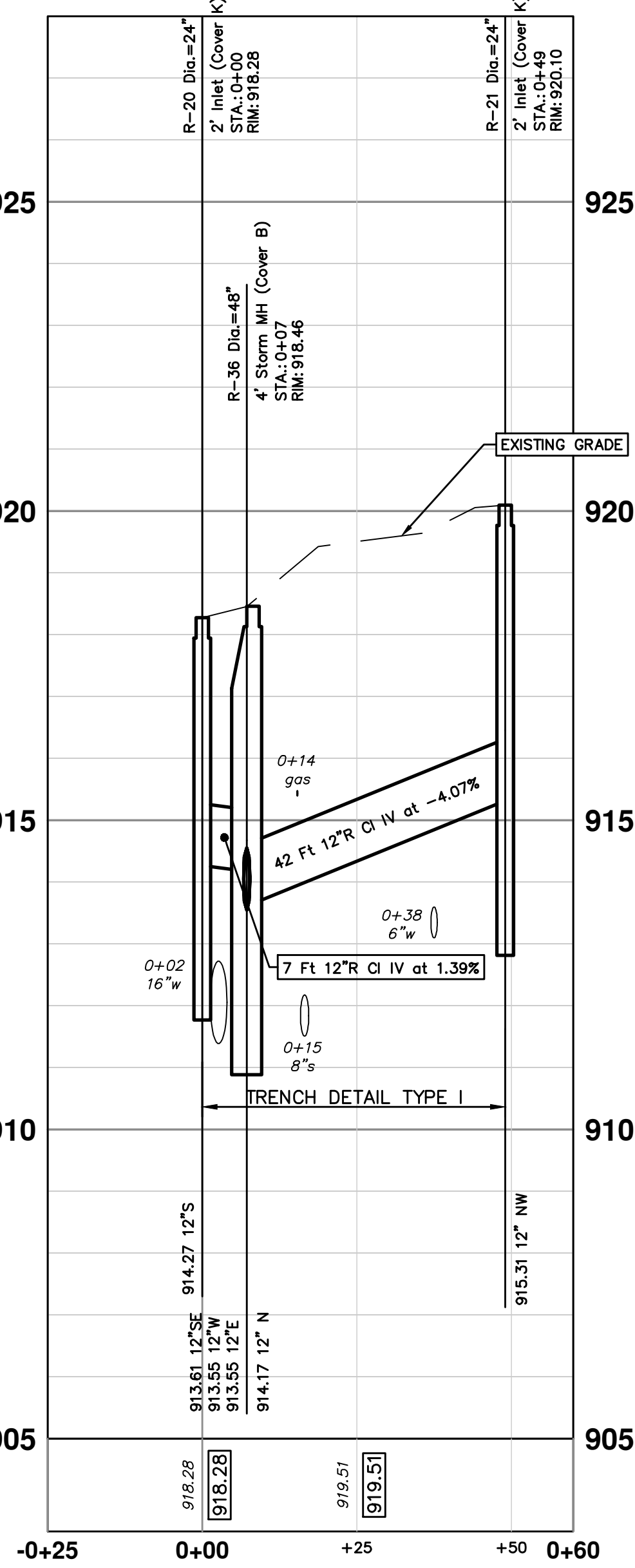
PLAN VIEW



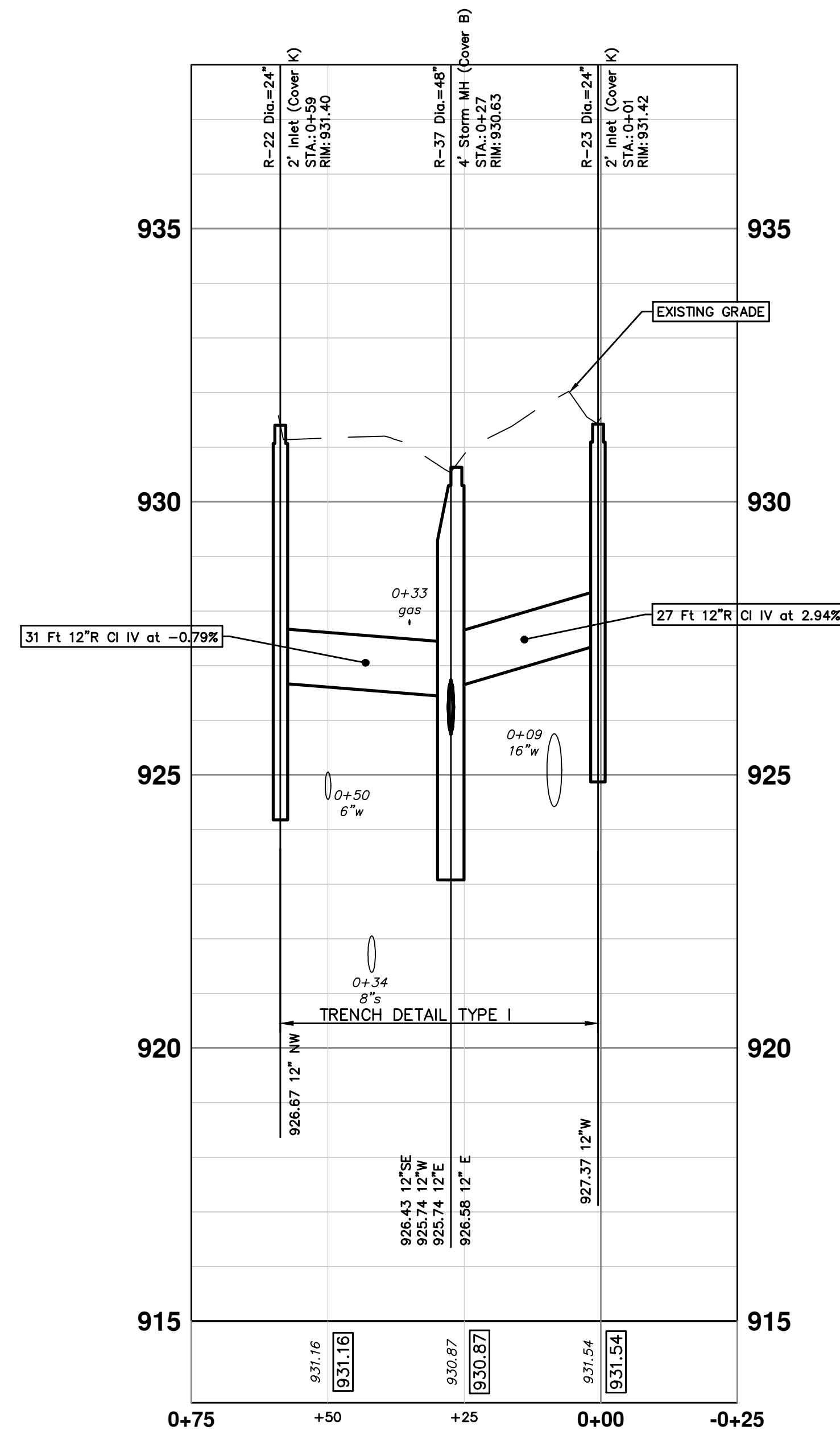
PLAN VIEW



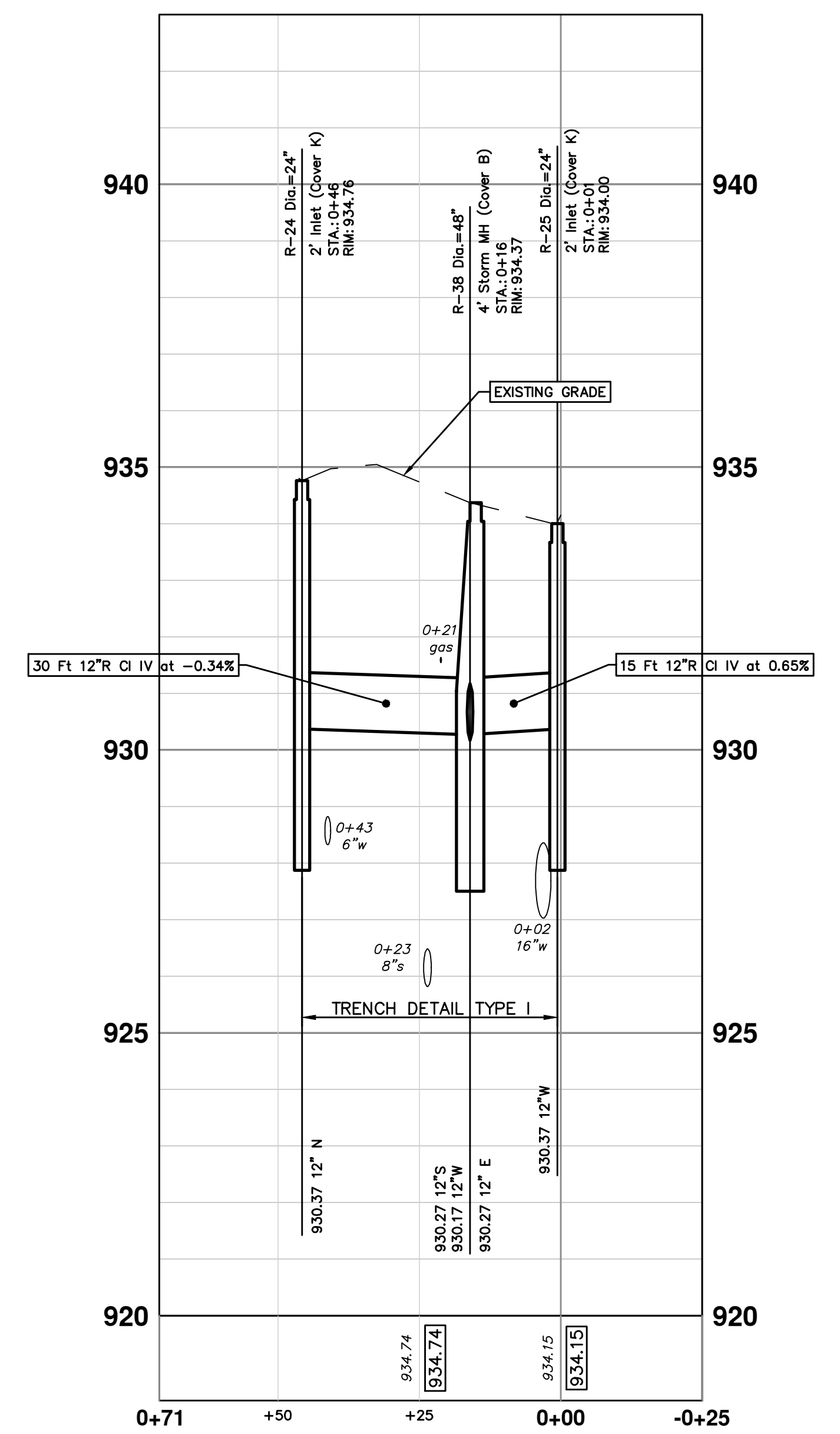
STORM SEWER PROFILE



STORM SEWER PROFILE



STORM SEWER PROFILE



STORM SEWER PROFILE

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| REV. | DATE | DESCRIPTION |
|------|------------|----------------------|
| 3 | 04/08/2022 | BID SET |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |

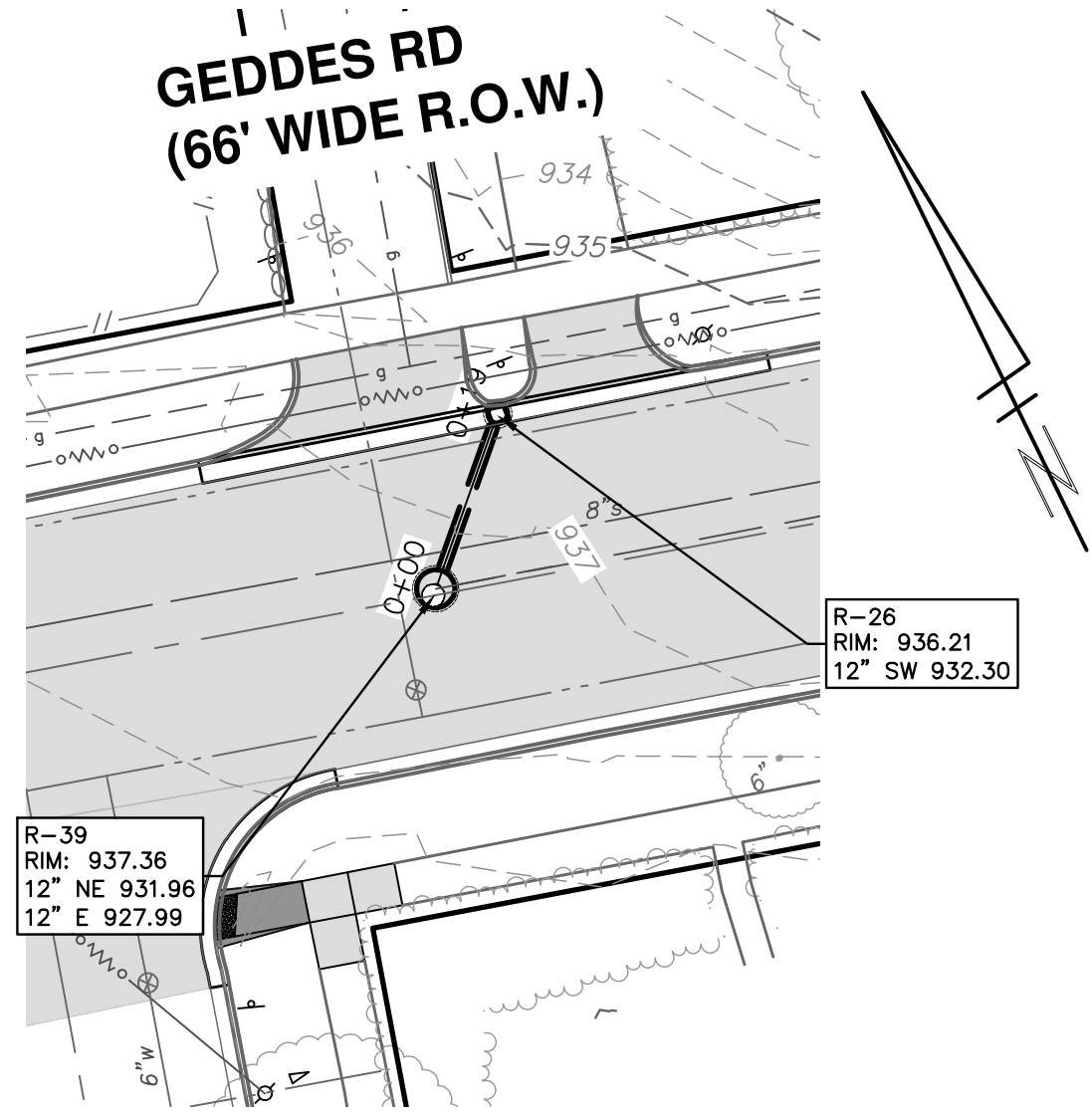
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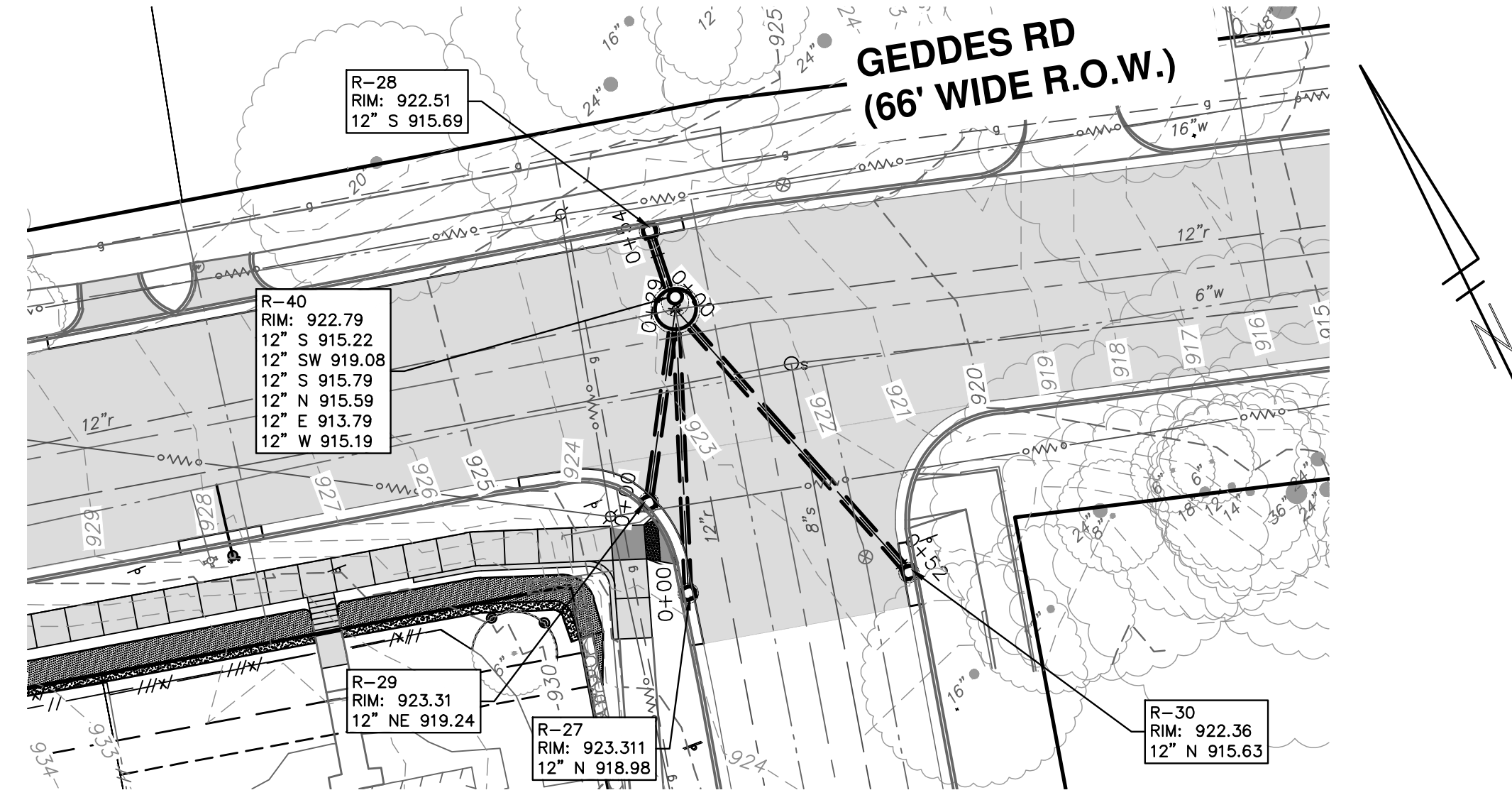
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GEDDES AVENUE
STORM WATER PLAN IV

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2022-009-24

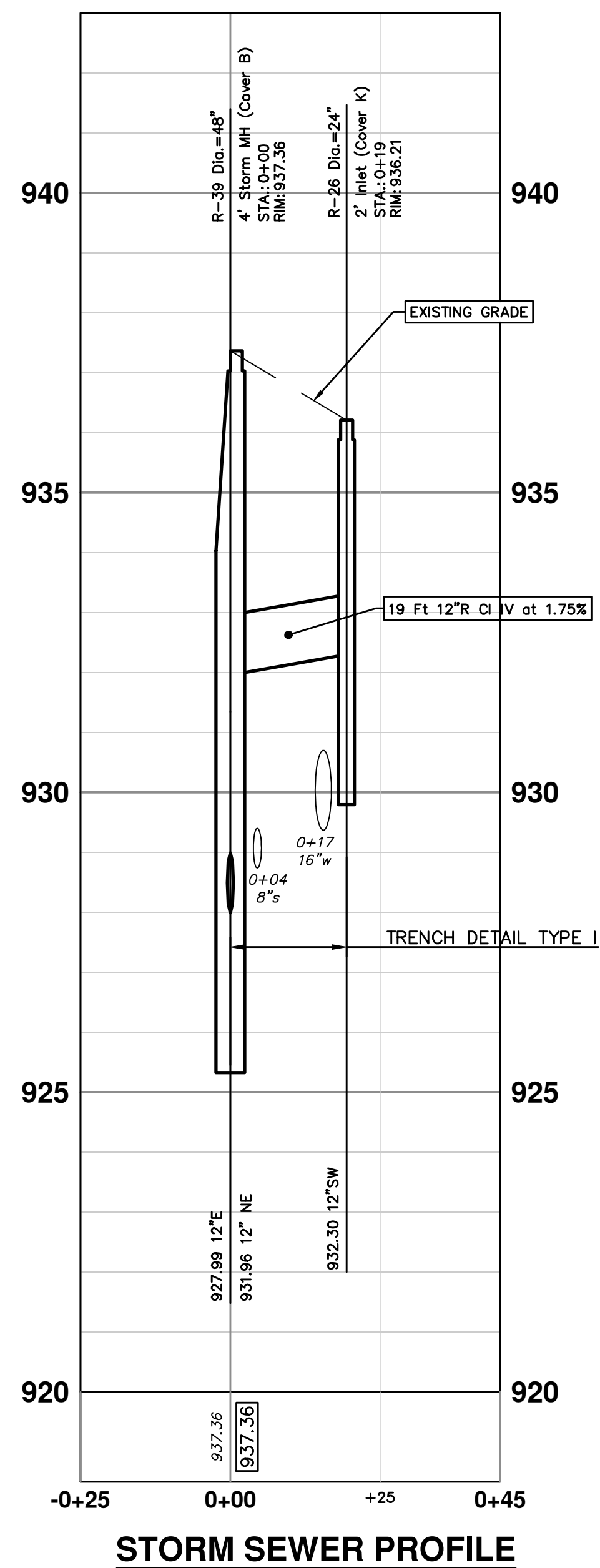
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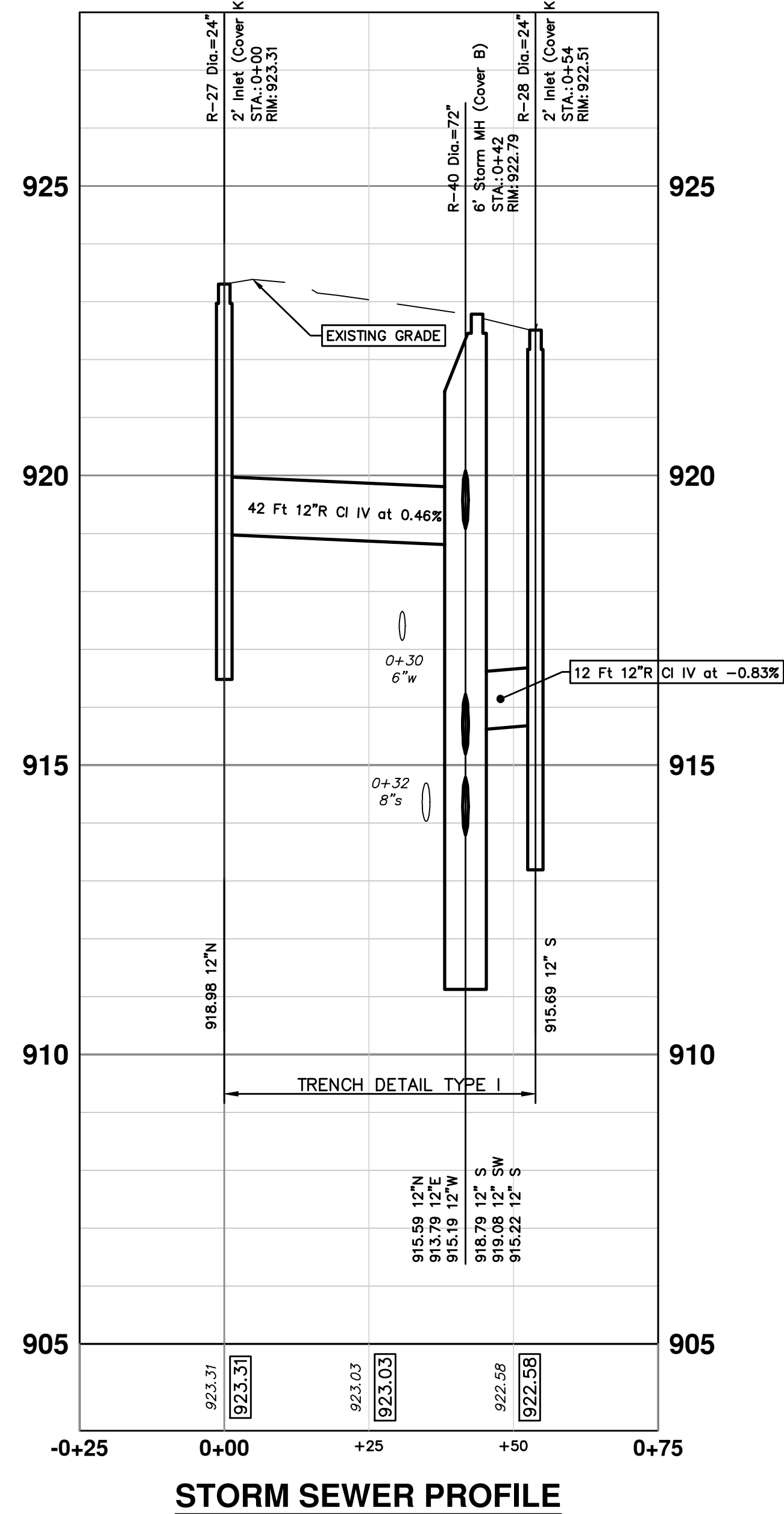
PLAN VIEW



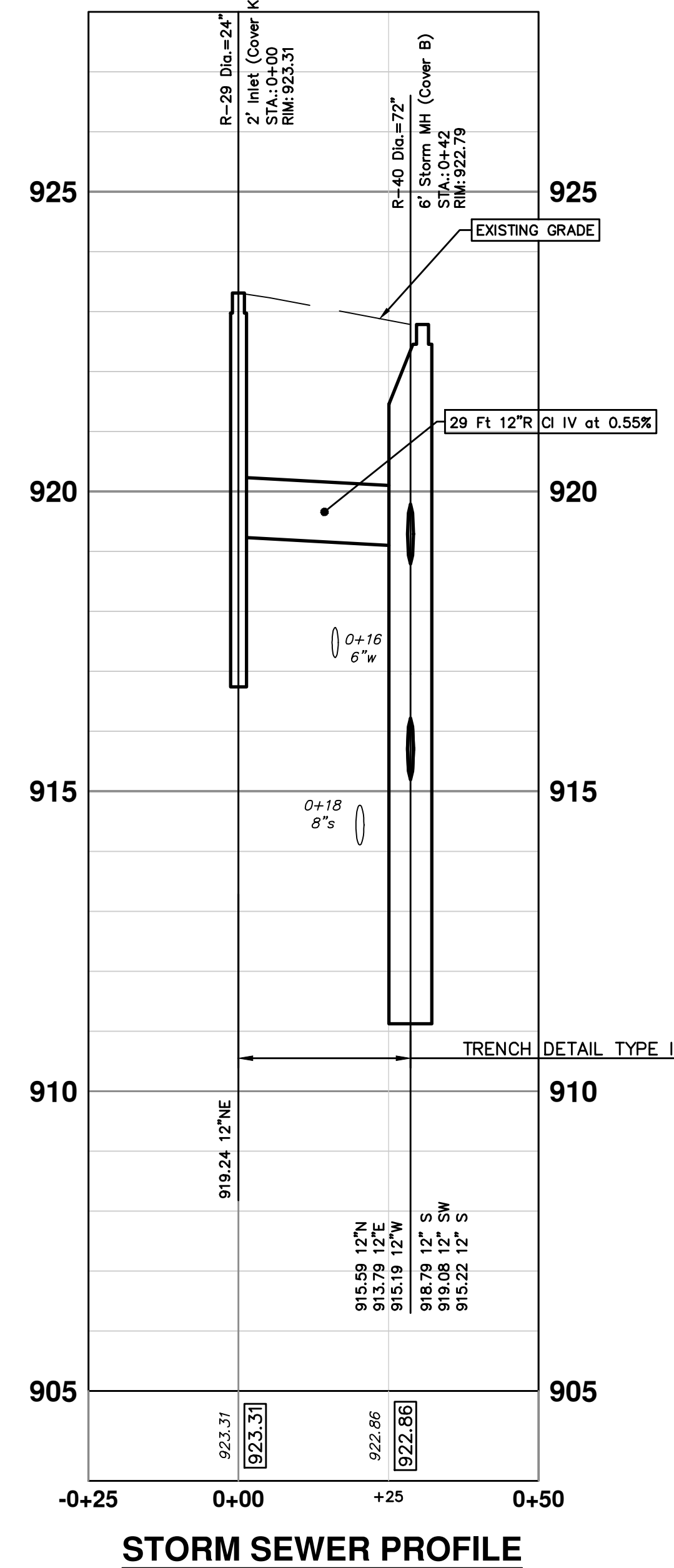
PLAN VIEW



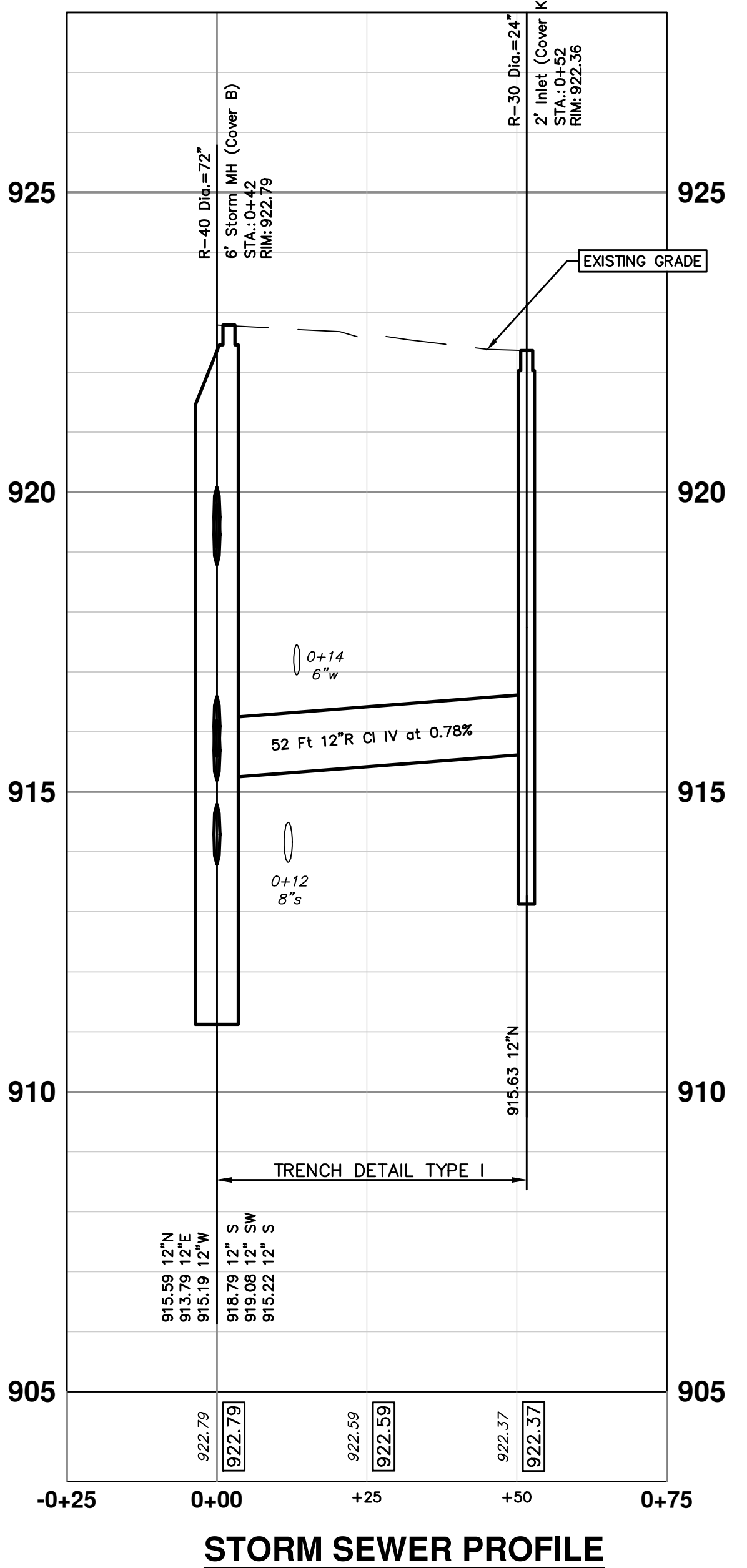
STORM SEWER PROFILE



STORM SEWER PROFILE



STORM SEWER PROFILE



STORM SEWER PROFILE



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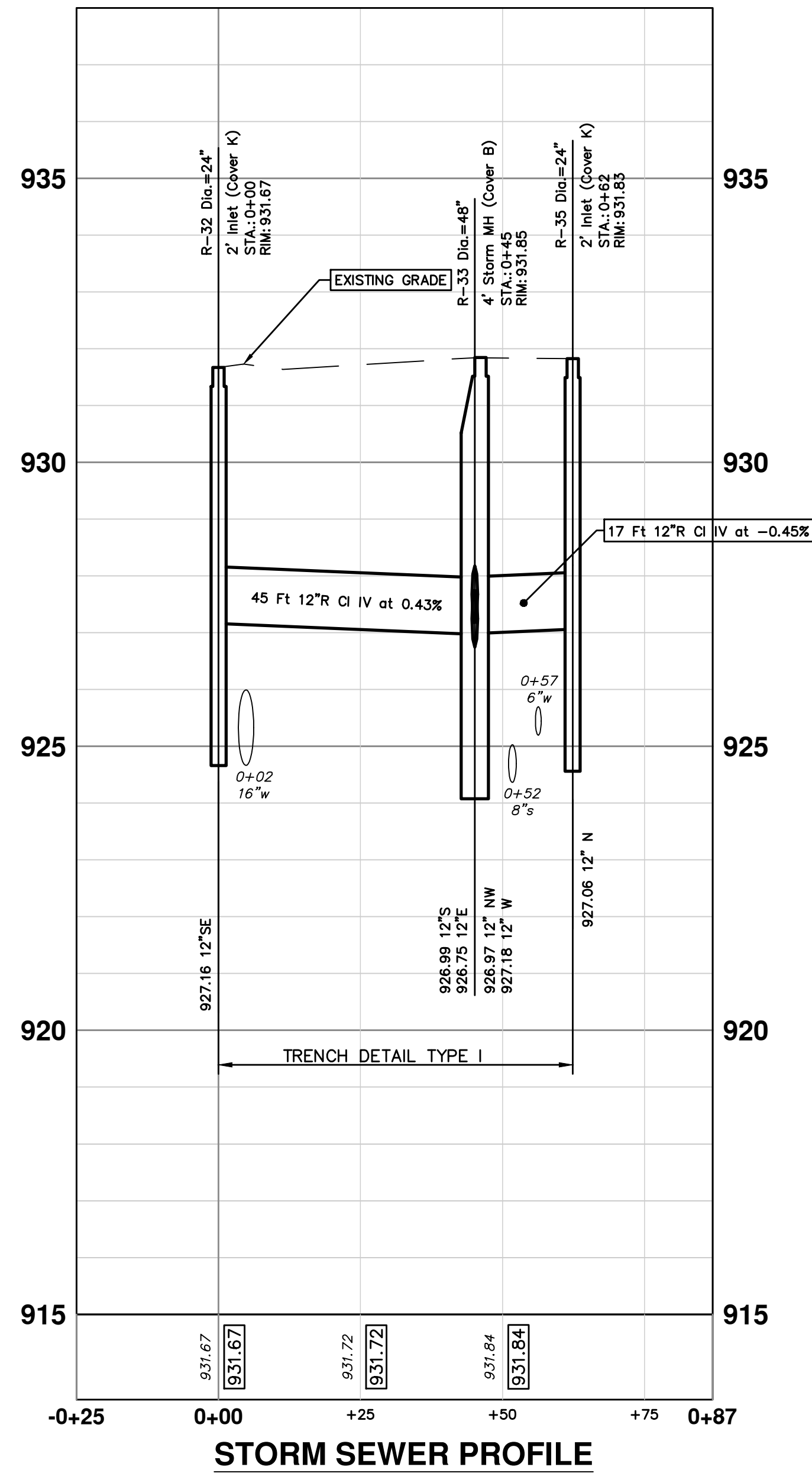
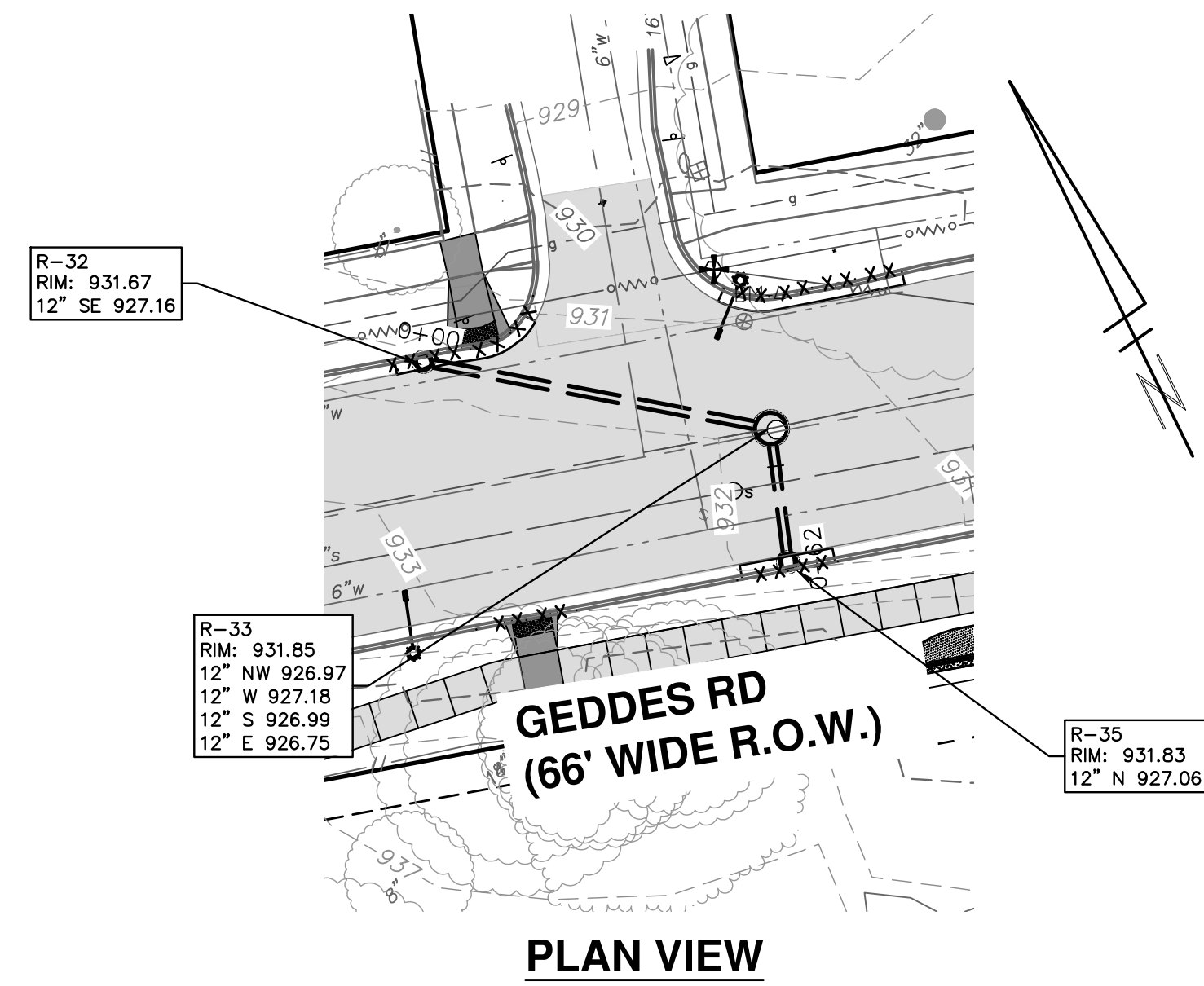
| REV. | DATE | DESCRIPTION |
|------|------------|----------------------|
| 3 | 04/08/2022 | BID SET |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |

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GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT
GEDDES AVENUE
STORM WATER PLAN V

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2022-009-25



| STORM SEWER STRUCTURE TABLE | | | | | | | |
|-----------------------------|---------|---|---------------|-------|----------|-----------------------------|------|
| STRUCTURE | STATION | INVERT ELEV. SIZE & DIRECTION | RIM ELEVATION | DEPTH | SIZE | TYPE | SUMP |
| R-1 | 3+37 | 36" W 888.22 36" E 888.22 28" S 888.12 18" N 888.83 | 892.34 | 4.41 | 96" Dia. | 8' Storm MH (Cover B) | 0' |
| R-2 | 2+96 | 36" W 888.27 12" S 889.12 36" E 888.27 | 892.83 | 6.56 | 60" Dia. | 5' Storm MH (Cover B) | 2' |
| R-3 | 0+00 | 12" N 889.20 | 892.06 | 4.86 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-4 | 0+00 | 36" E 888.59 12" N 891.04 | 895.87 | 9.28 | 60" Dia. | 5' Inlet Junction (Cover B) | 2' |
| R-5 | 0+17 | 12" S 891.11 | 896.03 | 7.04 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-6 | 3+64 | 36" W 888.26 12" S 889.09 36" E 888.26 | 892.66 | 6.40 | 60" Dia. | 5' Storm MH (Cover B) | 2' |
| R-7 | 4+90 | 36" W 888.40 18" NE 889.21 | 896.28 | 9.88 | 60" Dia. | 5' Storm MH (Cover B) | 2' |
| R-8 | 0+00 | 12" N 889.17 | 891.65 | 4.48 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-9 | 3+14 | 12" N 887.46 12" NW 890.13 15" S 887.36 | 895.18 | 9.82 | 48" Dia. | 4' Storm MH (Cover B) | 2' |
| R-10 | 2+71 | 48" W 887.66 12" SW 891.22 12" S 887.66 12" N 891.21 | 896.33 | 8.67 | 96" Dia. | 8' Storm MH (Cover B) | 0' |
| R-11 | 0+00 | 48" E 887.91 | 898.93 | 13.02 | 72" Dia. | 6' Storm MH (Cover B) | 2' |
| R-12 | 0+39 | 12" S 891.29 | 896.64 | 7.35 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-13 | 0+00 | 12" NE 891.31 | 896.64 | 7.34 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-14 | 3+29 | 12" SE 890.20 | 895.22 | 7.02 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-16 | 5+03 | 18" SW 889.54 12" NE 893.17 | 896.67 | 9.14 | 48" Dia. | 4' Storm MH (Cover B) | 2' |
| R-17 | 5+11 | 12" SW 893.38 | 897.10 | 5.72 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-18 | 0+01 | 12" S 897.15 | 901.11 | 5.95 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-19 | 0+37 | 12" N 897.59 | 901.94 | 6.36 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-20 | 0+00 | 12" S 914.27 | 918.28 | 6.01 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-21 | 0+49 | 12" NW 915.31 | 920.10 | 6.78 | 24" Dia. | 2' Inlet (Cover K) | 2' |

| STORM SEWER STRUCTURE TABLE | | | | | | | |
|-----------------------------|---------|---|---------------|-------|----------|-----------------------------|------|
| STRUCTURE | STATION | INVERT ELEV. SIZE & DIRECTION | RIM ELEVATION | DEPTH | SIZE | TYPE | SUMP |
| R-22 | 0+59 | 12" NW 926.67 | 931.40 | 6.72 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-23 | 0+01 | 12" W 927.37 | 931.42 | 6.05 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-24 | 0+46 | 12" N 930.37 | 934.76 | 6.39 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-25 | 0+01 | 12" W 930.37 | 934.00 | 5.63 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-26 | 0+19 | 12" SW 932.30 | 936.21 | 5.91 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-27 | 0+00 | 12" N 918.98 | 923.31 | 6.33 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-28 | 0+54 | 12" S 915.69 | 922.51 | 8.82 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-29 | 0+00 | 12" NE 919.24 | 923.31 | 6.07 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-30 | 0+52 | 12" N 915.63 | 922.36 | 8.74 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-31 | 0+57 | 18" S 888.94 18" NE 889.18 | 892.98 | 4.04 | 48" Dia. | 4' Inlet Junction (Cover K) | 0' |
| R-32 | 0+00 | 12" SE 927.16 | 931.67 | 6.51 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-33 | 0+45 | 12" NW 926.97 12" W 927.18 12" S 926.99 12" E 926.75 | 931.85 | 7.10 | 48" Dia. | 4' Storm MH (Cover B) | 2' |
| R-34 | 0+06 | 12" S 897.24 12" N 897.05 12" E 894.22 12" W 894.22 | 901.29 | 9.07 | 48" Dia. | 4' Storm MH (Cover B) | 2' |
| R-35 | 0+62 | 12" N 927.06 | 931.83 | 6.76 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-36 | 0+07 | 12" N 914.17 12" SE 913.61 12" W 913.55 12" E 913.55 | 918.46 | 6.91 | 48" Dia. | 4' Storm MH (Cover B) | 2' |
| R-37 | 0+27 | 12" E 926.58 12" SE 926.43 12" W 925.74 12" E 925.74 | 930.63 | 6.89 | 48" Dia. | 4' Storm MH (Cover B) | 2' |
| R-38 | 0+16 | 12" E 930.27 12" S 930.27 12" W 930.17 | 934.37 | 6.20 | 48" Dia. | 4' Storm MH (Cover B) | 2' |
| R-39 | 0+00 | 12" NE 931.96 12" E 927.99 | 937.36 | 11.37 | 48" Dia. | 4' Storm MH (Cover B) | 2' |
| R-40 | 0+42 | 12" S 918.79 12" SW 919.08 12" S 915.22 12" N 915.59 12" E 913.79 12" W 915.19 | 922.79 | 11.00 | 72" Dia. | 6' Storm MH (Cover B) | 2' |
| R-41 | 3+37 | 28" N 887.90 18" S 887.80 | 890.98 | 3.18 | 48" Dia. | 4' Storm MH (Cover B) | 0' |

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| | | | | | | | | | |
|--|---------|-----------------|----------------------|------------|-----|-------------|--|--|--|
| | | | | | | | | | |
| | C/E | BWA | BWA | BWA | BWA | CHECKED | | | |
| | | 04/08/2022 | 03/16/2022 | 02/07/2022 | | DATE | | | |
| | BID SET | 70% DESIGN PLAN | 30% PRELIMINARY PLAN | | | REV. | | | |
| | 3 | 2 | 1 | | | DESCRIPTION | | | |

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GEDDES AVENUE

STORM WATER PLAN VI & STORM WATER STRUCTURE SCHEDULE

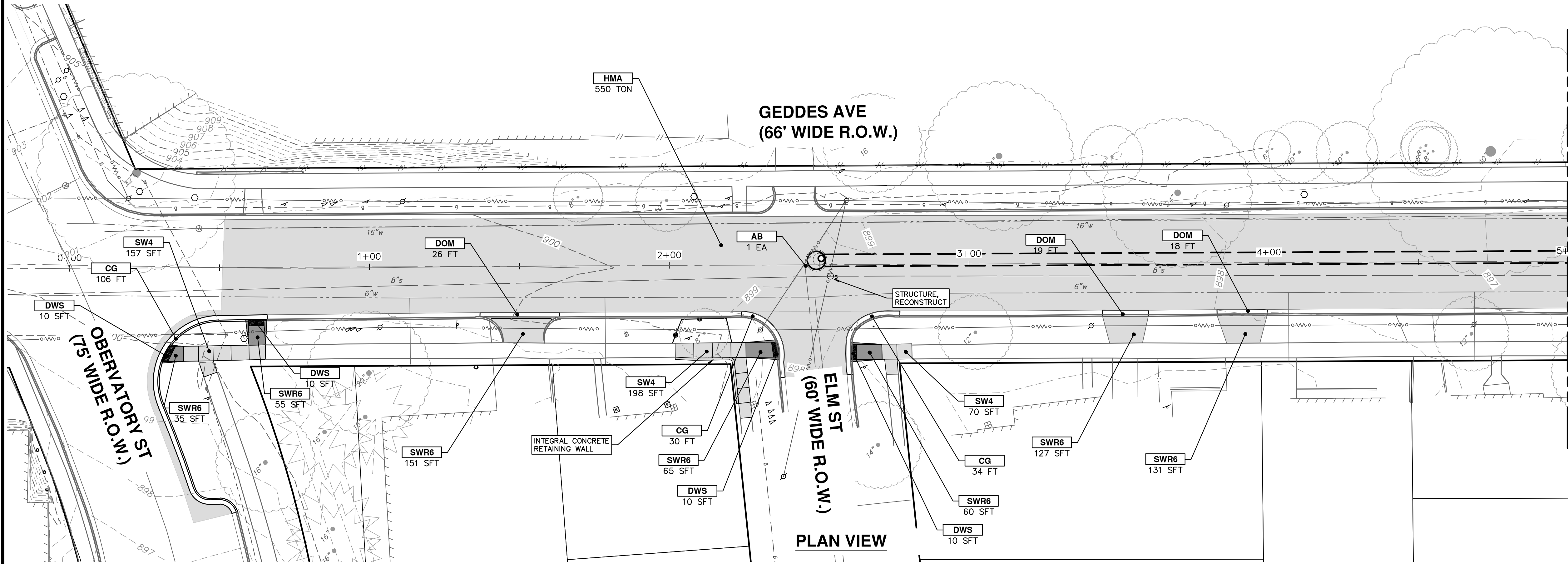
SCALE PLAN: 1" = 20'

PROFILE: 1" = 2'

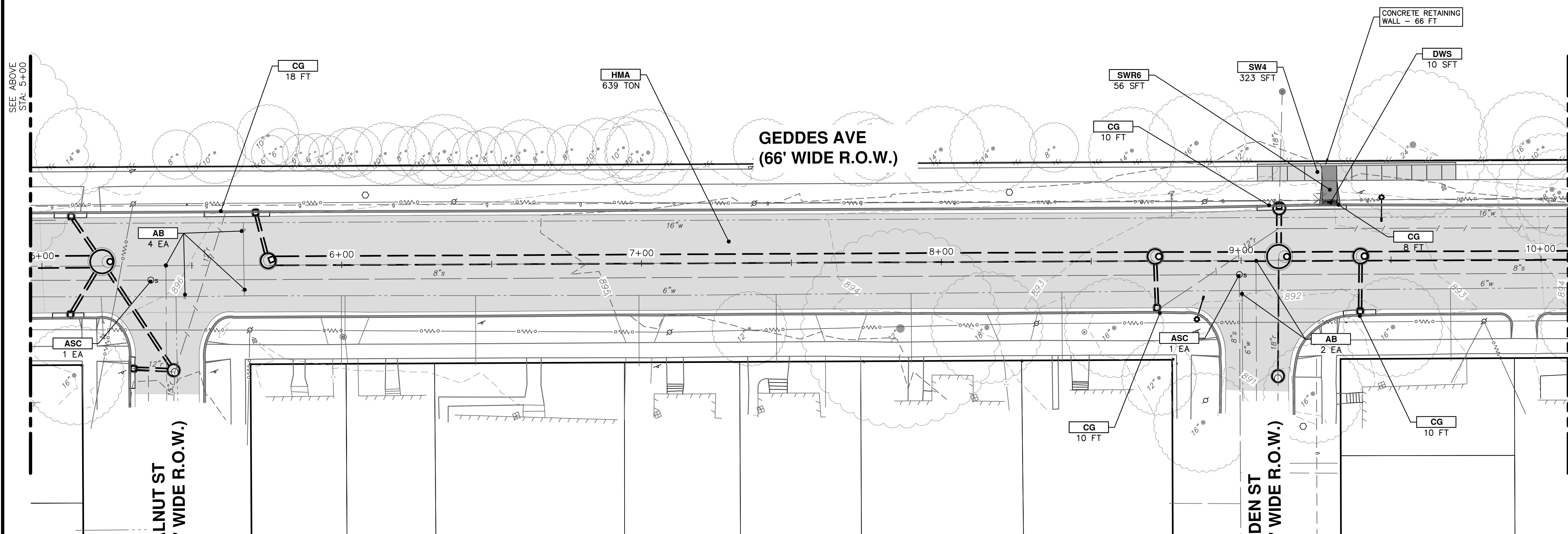
DRAWING No. 2022-009-26

SHEET No. 26 OF 53

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PLAN VIEW



PLAN VIEW

| CONSTRUCTION KEY | |
|------------------|---|
| KEY | DESCRIPTION |
| HMA | SURFACE AREA FOR HMA |
| CG | CONCRETE CURB OR CURB & GUTTER, ALL TYPES |
| SW4 | 4 INCH CONCRETE SIDEWALK |
| SWR6 | 6 INCH CONCRETE RAMP, DRIVE APPROACH |
| DWS | DETECTABLE WARNING, CAST IN PLACE |
| DOM | CONCRETE TYPE M DRIVE OPENING |
| ASC | ADJUST STRUCTURE COVER |
| AB | ADJUST MONUMENT BOX OR GATE VALVE BOX |

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GEDDES AVENUE

PAVING PLAN STA 0+00 TO 10+00

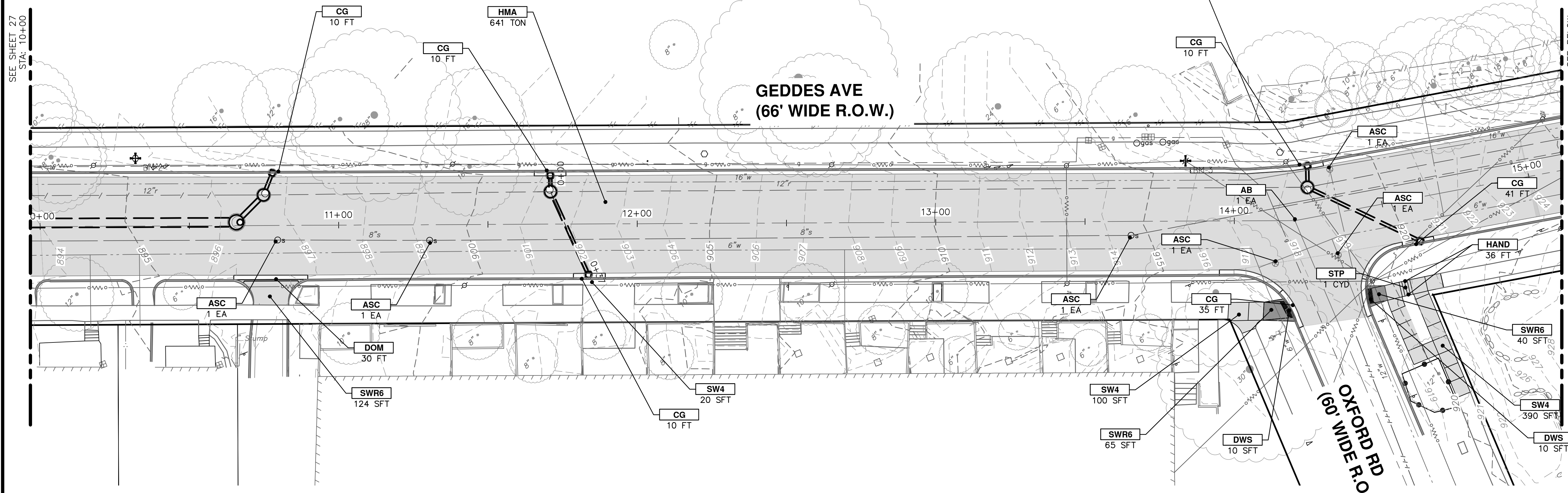
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SHEET No. 27 OF 53

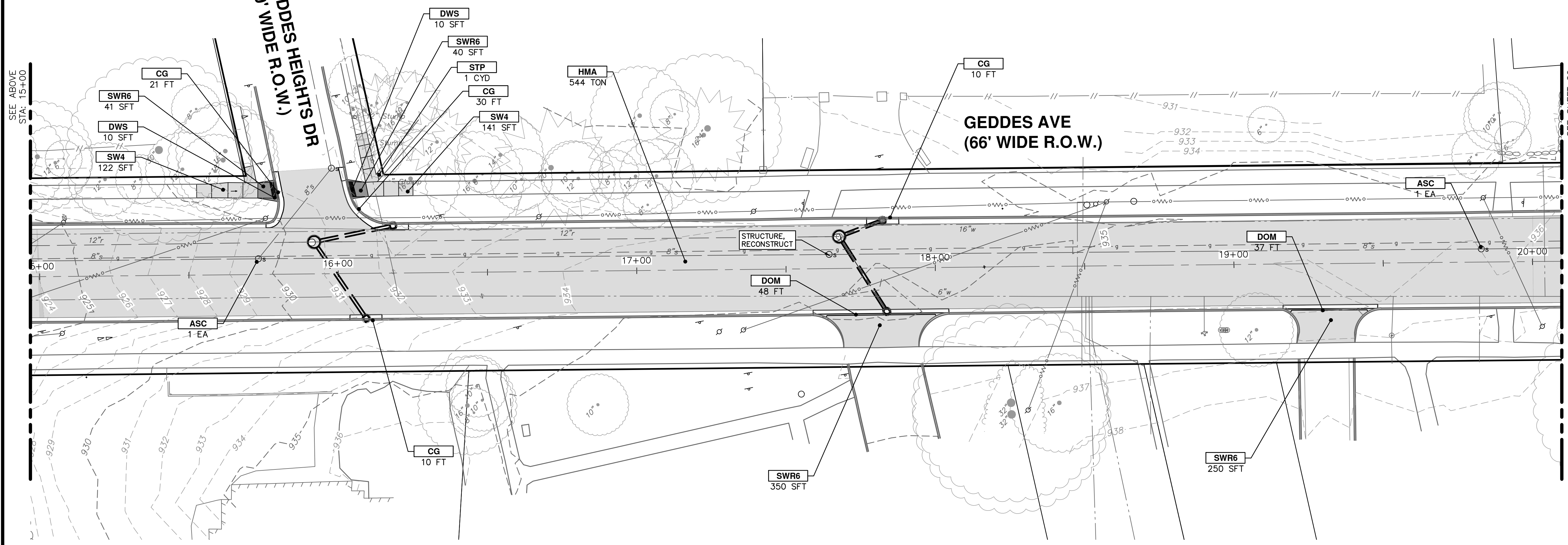
811
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| REV. | DATE | DRAWN | CHECKED | DESCRIPTION |
|------|------------|-------|---------|----------------------|
| 3 | 04/08/2022 | BWA | CJE | BID SET |
| 2 | 03/16/2022 | BWA | CJE | 70% DESIGN PLAN |
| 1 | 02/07/2022 | BWA | CJE | 30% PRELIMINARY PLAN |

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PLAN VIEW



PLAN VIEW

| CONSTRUCTION KEY | |
|------------------|---|
| KEY | DESCRIPTION |
| HMA | SURFACE AREA FOR HMA |
| CG | CONCRETE CURB OR CURB & GUTTER, ALL TYPES |
| SW4 | 4 INCH CONCRETE SIDEWALK |
| SWR6 | 6 INCH CONCRETE RAMP, DRIVE APPROACH |
| DWS | DETECTABLE WARNING SURFACE, CAST IN PLACE |
| DOM | CONCRETE TYPE M DRIVE OPENING |
| ASC | ADJUST STRUCTURE COVER |
| AB | ADJUST MONUMENT BOX OR GATE VALVE BOX |
| HAND | HANDRAIL FOR STEPS |
| STP | STEPS, CONCRETE |

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SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2022-009-28

SHEET No. 28 OF 53

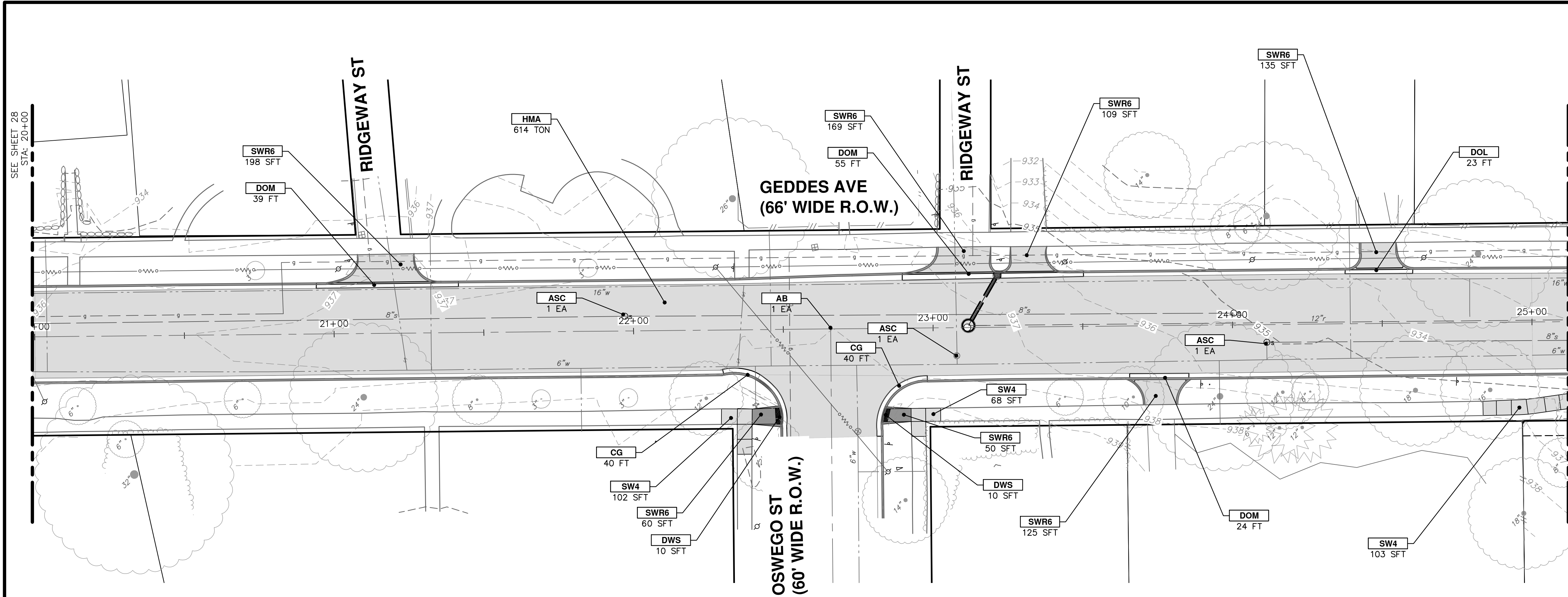
GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

GEDDES AVENUE

PAVING PLAN STA 10+00 TO 20+00

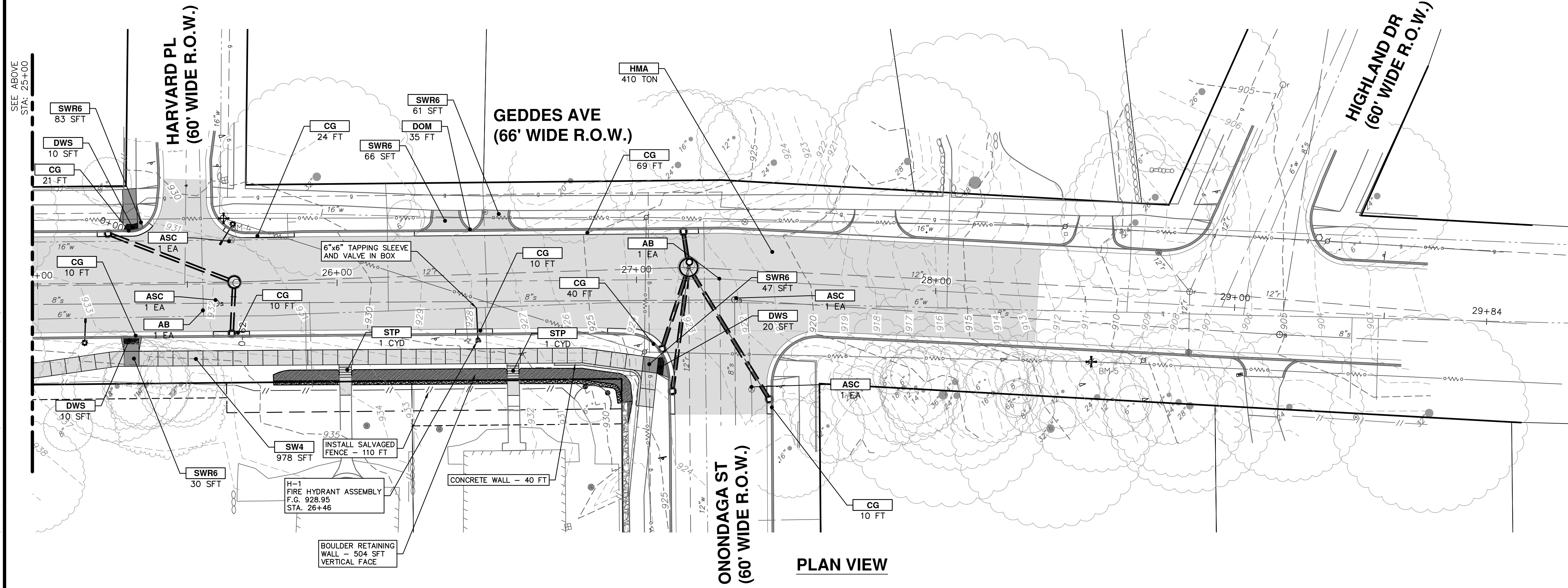
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| 3 | BID SET | 04/08/2022 | C/E | C/E |
| 2 | 70% DESIGN PLAN | 03/16/2022 | BWA | BWA |
| 1 | 30% PRELIMINARY PLAN | 02/07/2022 | BWA | BWA |

811
Know what's below.
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PLAN VIEW

| CONSTRUCTION KEY | |
|------------------|---|
| KEY | DESCRIPTION |
| HMA | SURFACE AREA FOR HMA |
| CG | CONCRETE CURB OR CURB & GUTTER, ALL TYPES |
| SW4 | 4 INCH CONCRETE SIDEWALK |
| SWR6 | 6 INCH CONCRETE RAMP, DRIVE APPROACH |
| DWS | DETECTABLE WARNING SURFACE, CAST IN PLACE |
| DOM | CONCRETE TYPE M DRIVE OPENING |
| ASC | ADJUST STRUCTURE COVER |
| AB | ADJUST MONUMENT BOX OR GATE VALVE BOX |
| STP | STEPS, CONCRETE |



PLAN VIEW



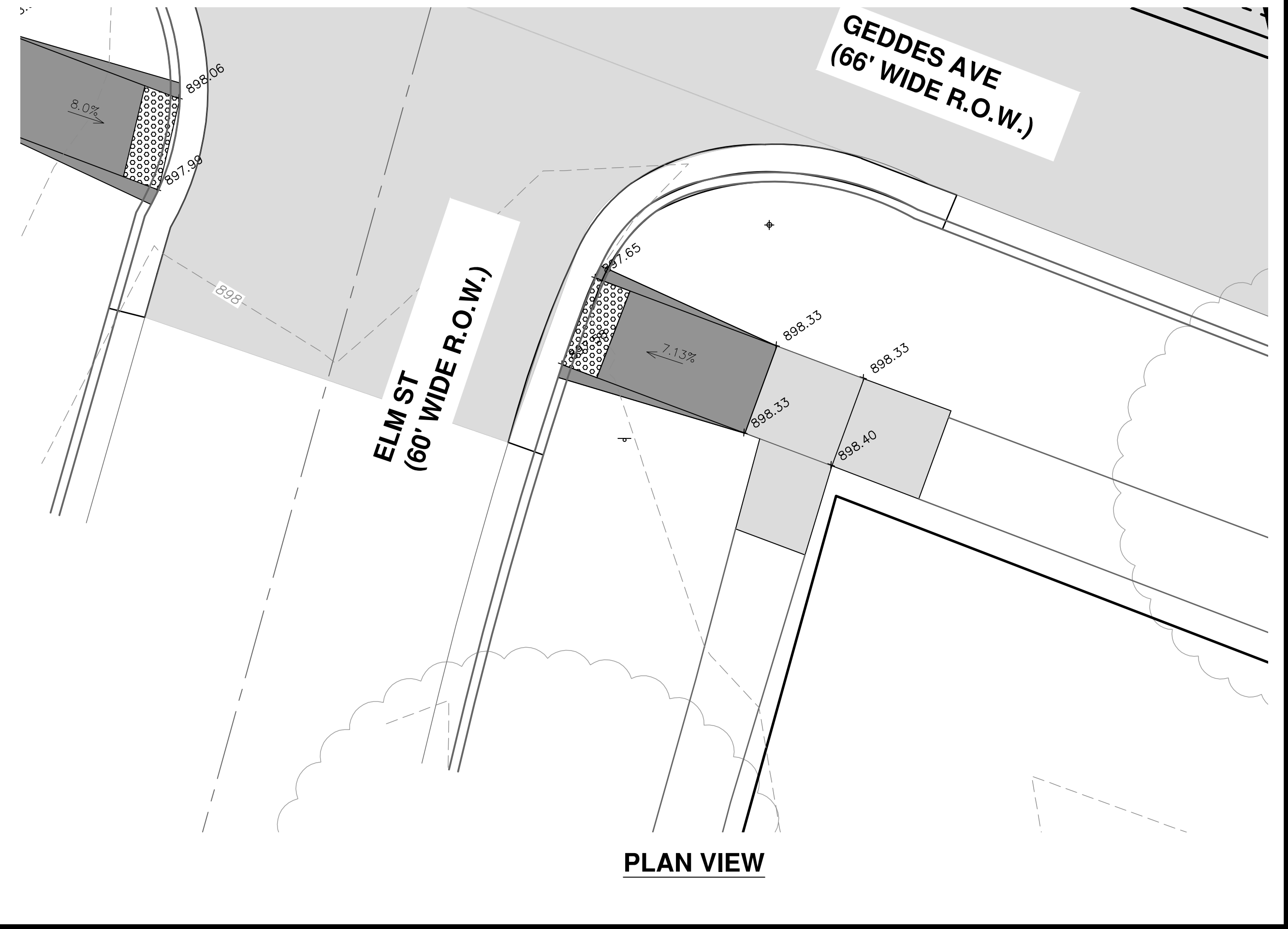
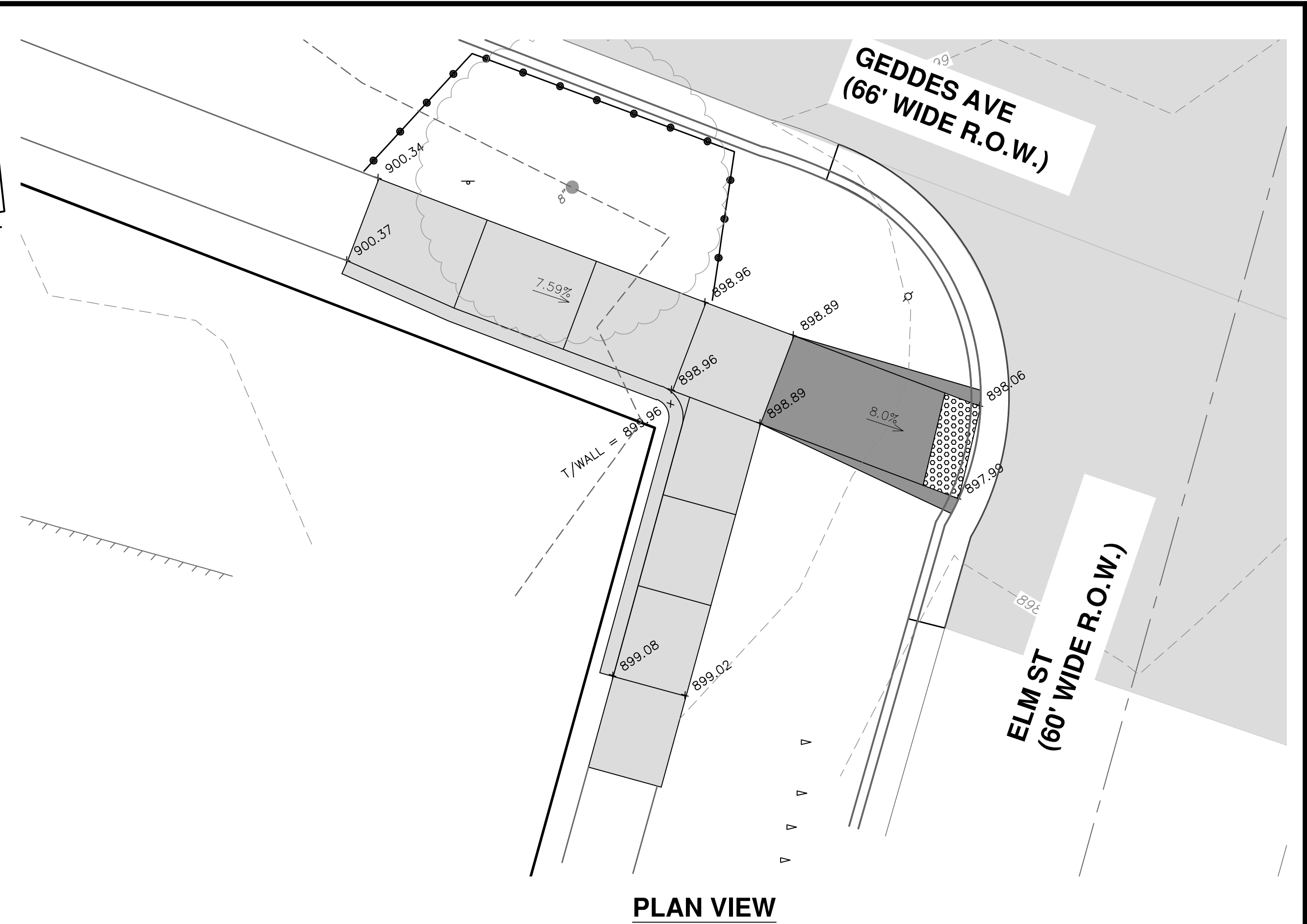
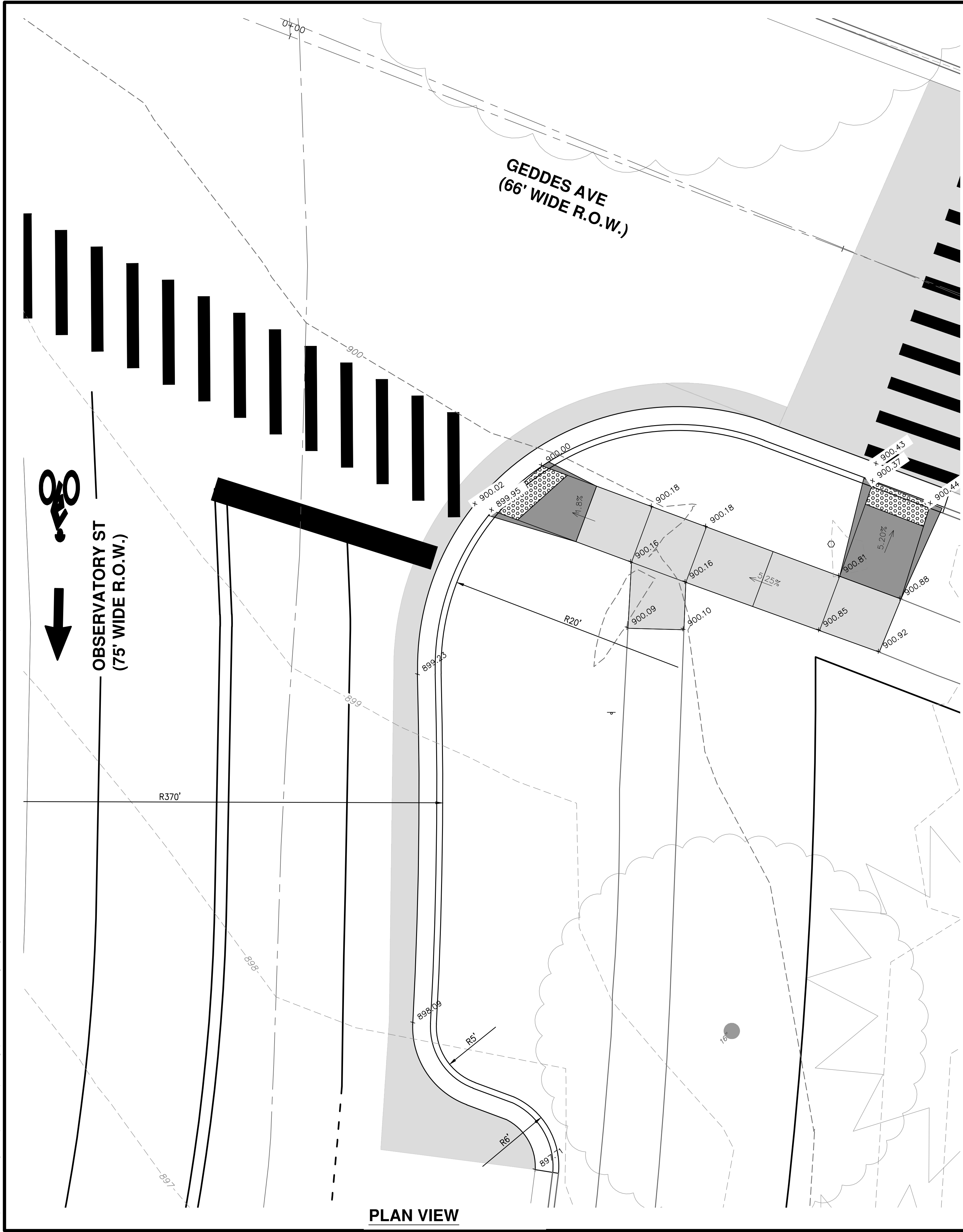
| REV. | DATE | DESCRIPTION |
|------|------------|----------------------|
| 3 | 04/08/2022 | BID SET |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |

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GEDDES AVENUE
PAVING PLAN STA 20+00 TO 30+00
DRAWING No. 2022-009-29
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

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GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

GEDDES AVENUE

DETAILED GRADING PLAN I

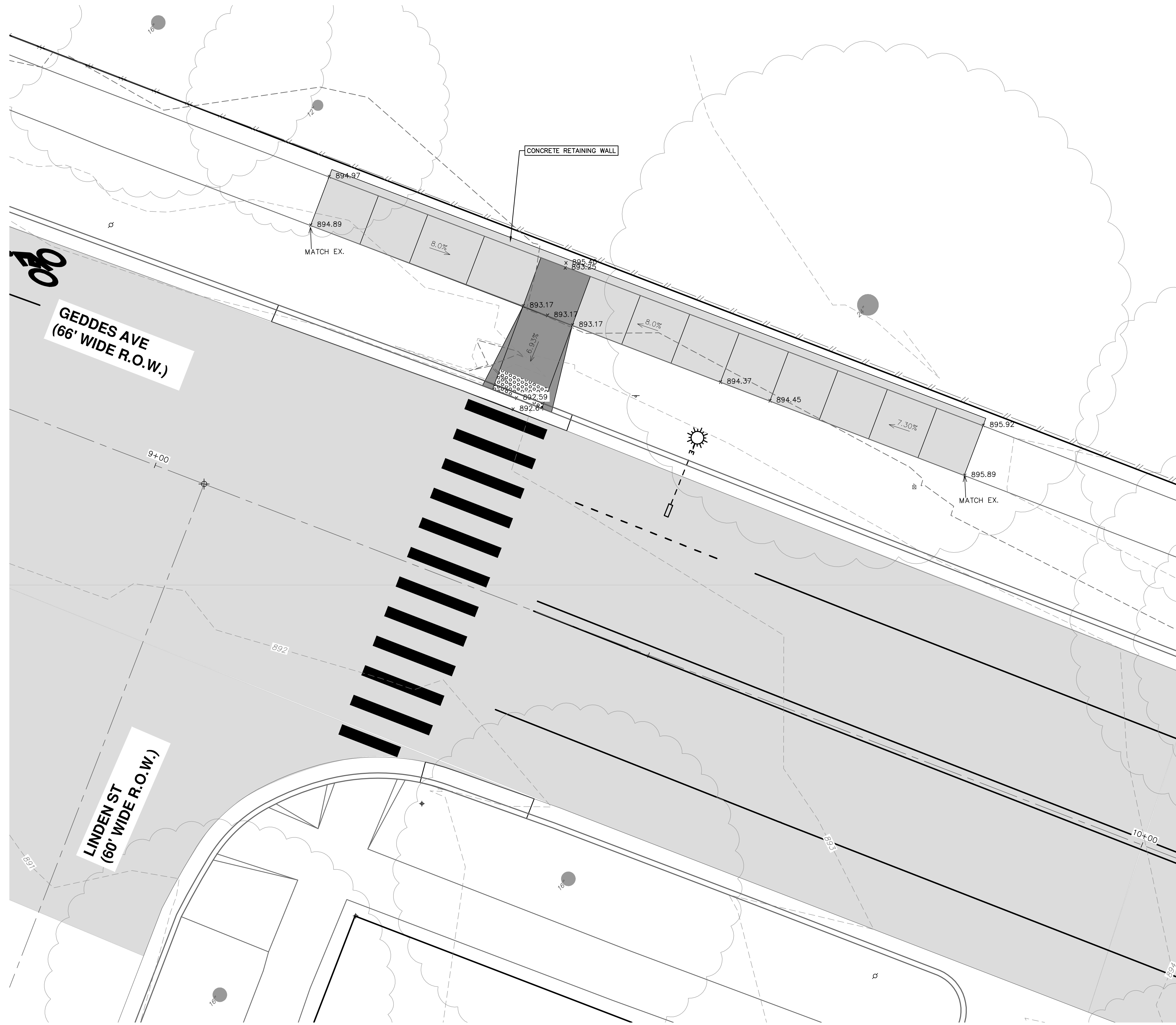
SCALE PLAN: 1" = 5'

DRAWING No. 2022-008-30


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| REV. | DATE | DRAWN | CHECKED |
|------|------------|-------|---------|
| 3 | 04/08/2022 | BWA | CJE |
| 2 | 03/16/2022 | BWA | CJE |
| 1 | 02/07/2022 | BWA | CJE |

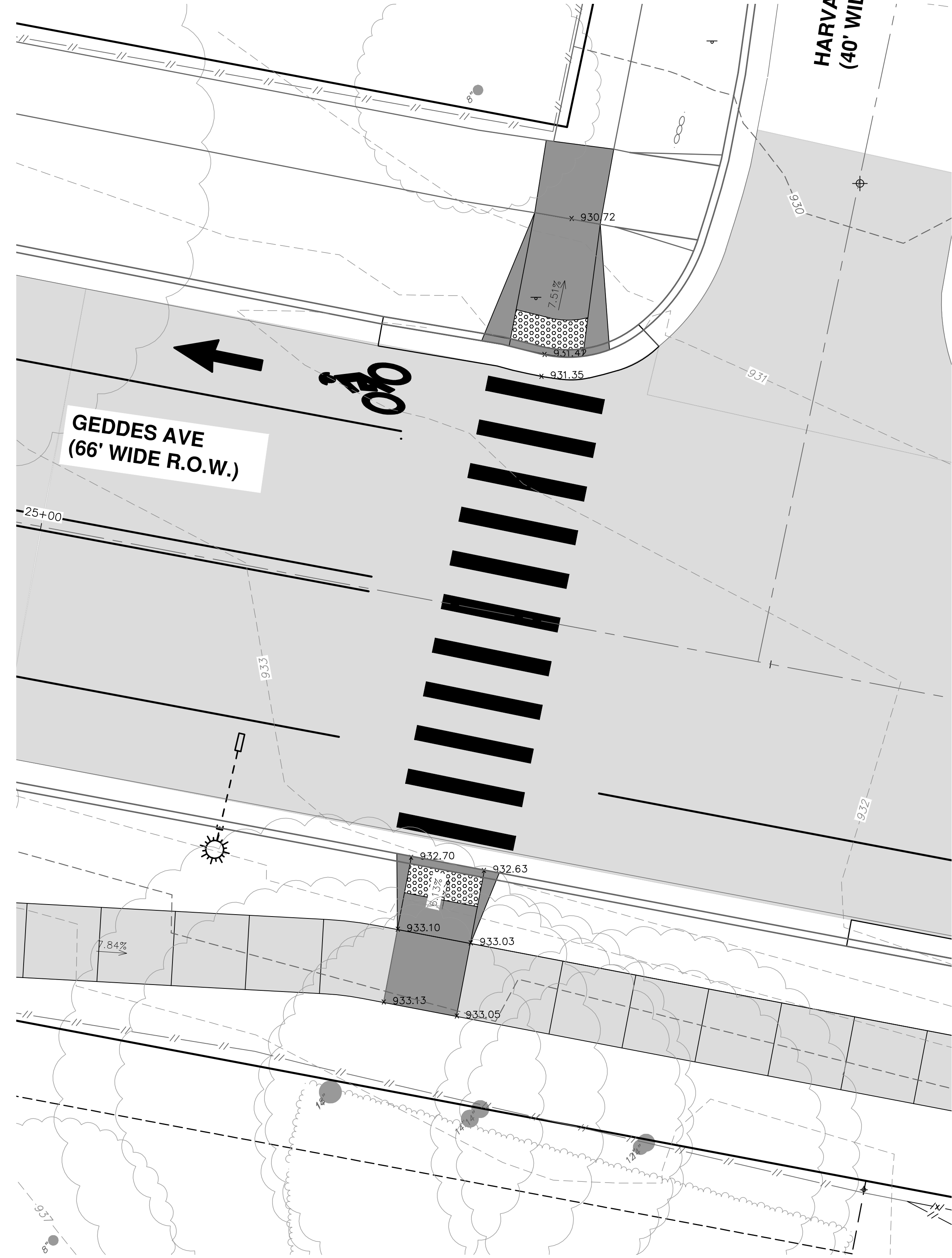
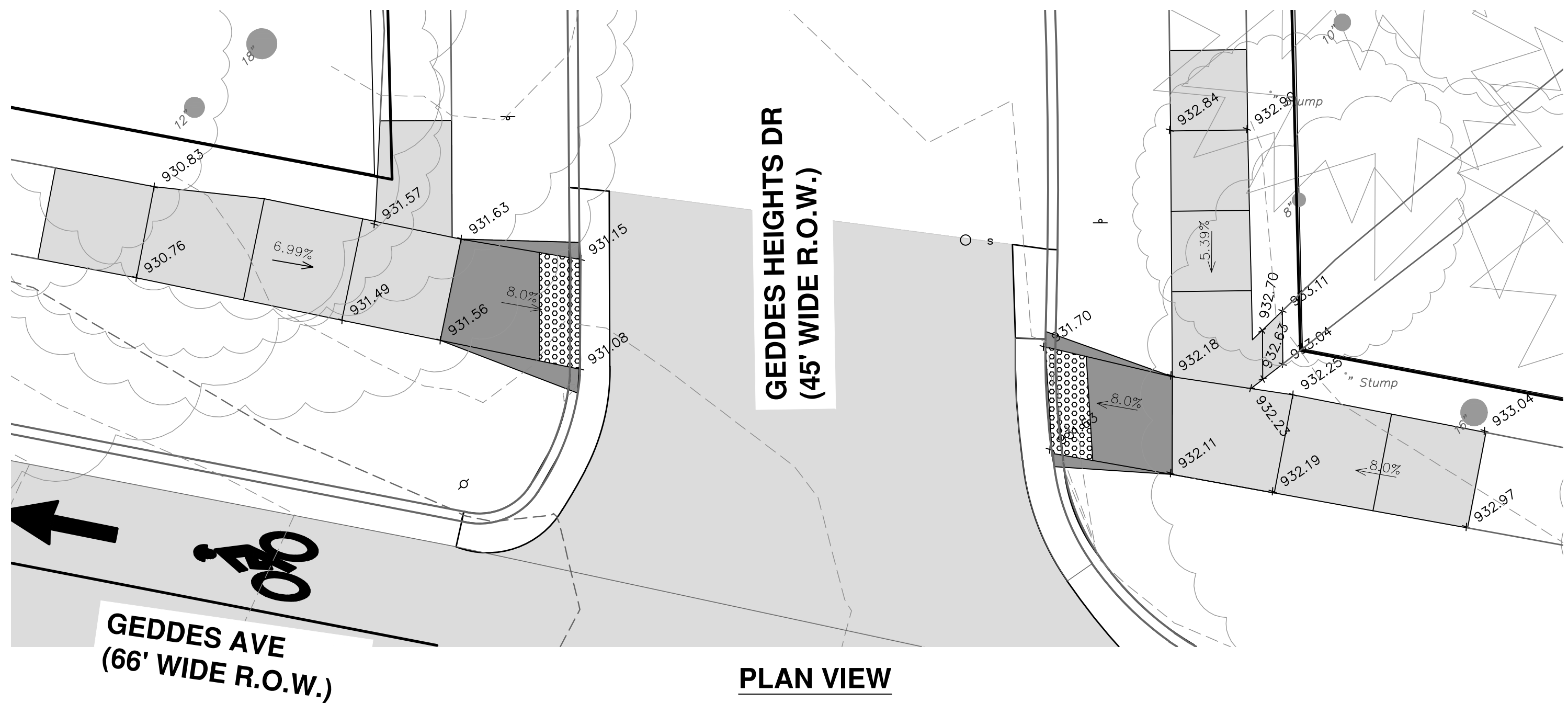
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PLAN VIEW

| | |
|--|--|
|  Know what's below. Call Before you dig. | |
| CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR MI 48106-6647 734-794-6410 www.a2gov.org | BID SET 70% DESIGN PLAN 30% PRELIMINARY PLAN |
| 04/08/2022 03/16/2022 02/07/2022 | BWA BWA BWA |
| 3 2 1 | C/E C/E C/E |
| REV. DESCRIPTION | DRAWN CHECKED |
| CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT GEDDES AVENUE DETAILED GRADING PLAN II | |
| SCALE PLAN: 1" = 5' DRAWING No. 2022-009-31 | SHEET No. 31 OF 53 |

C:\Civil_3D\Projects\Ged-Hur_drawing\151604C-113.dwg Dwg Created: 13-Jan-22 - _g2 standard bw.stb - Plot Date: 11-Apr-22



SHEET No.

32 OF 53

SCALE PLAN: 1" = 5'
DRAWING No. 2022-008-32

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
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GEDDES AVENUE
 DETAILED GRADING PLAN III



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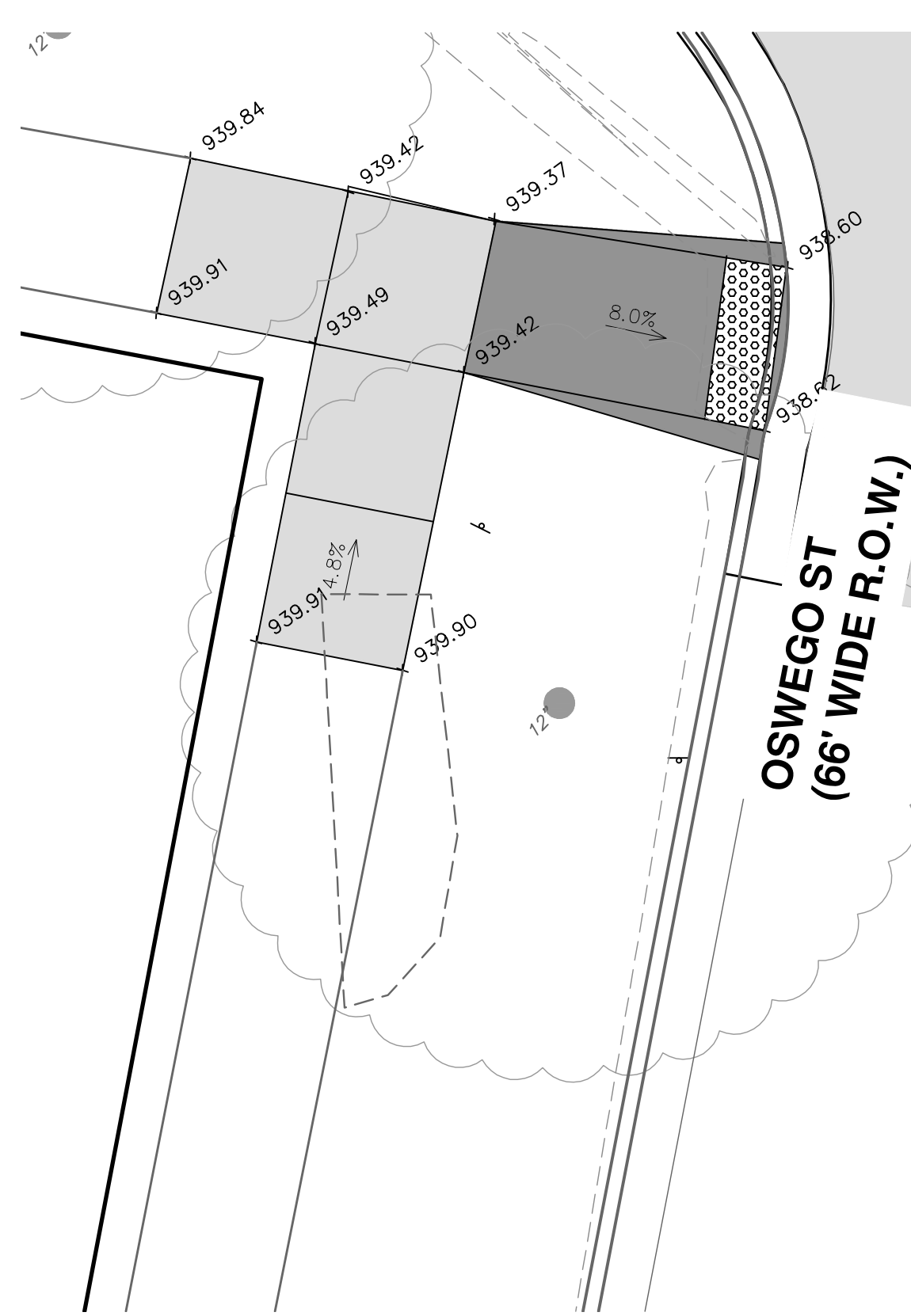
REV. DESCRIPTION

| REV. | DATE | DRAWN | CHECKED |
|------|------------|-------|---------|
| 1 | 02/07/2022 | BWA | CJE |
| 2 | 03/16/2022 | BWA | CJE |
| 3 | 04/08/2022 | BWA | CJE |

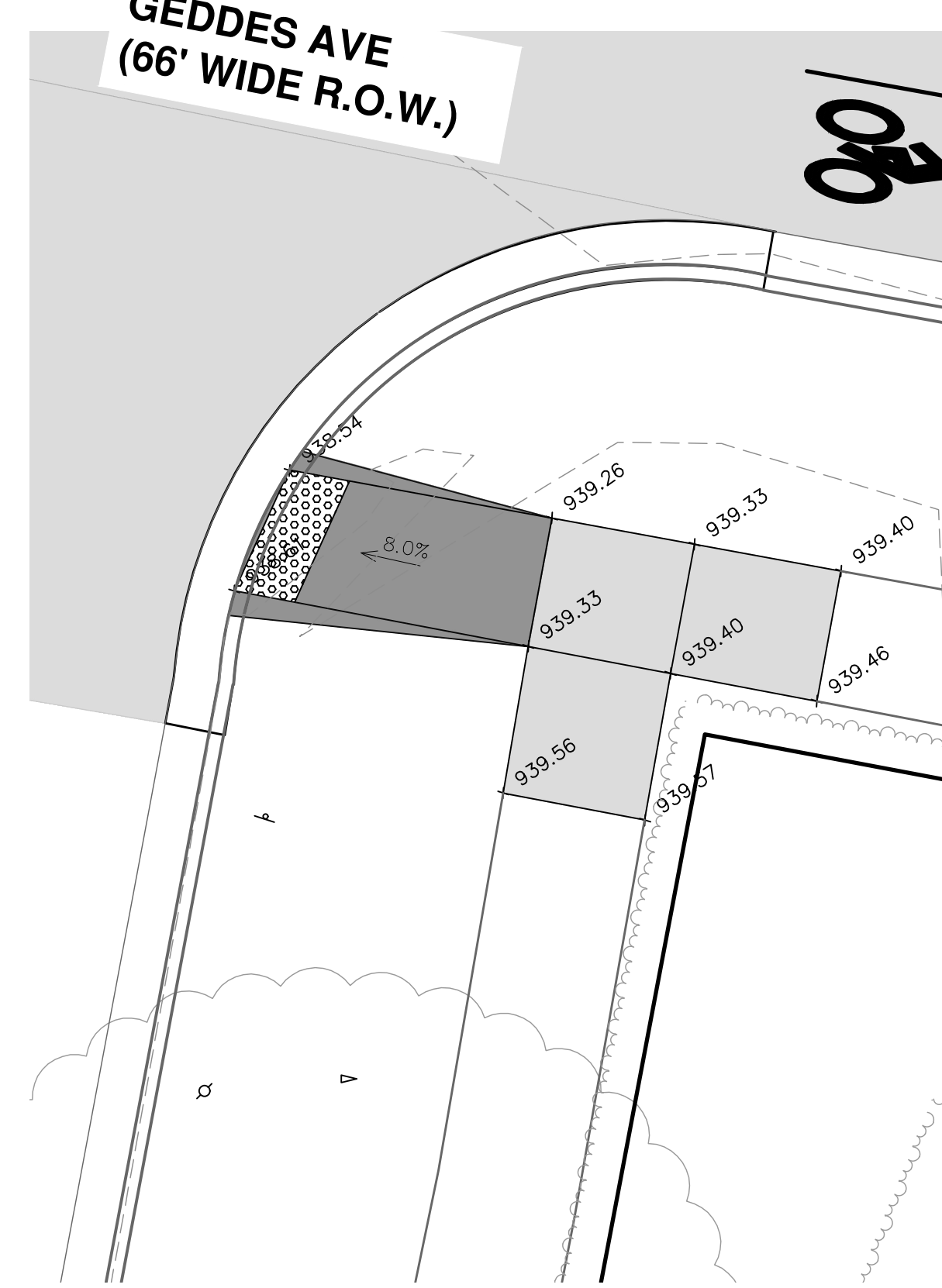


Know what's below.
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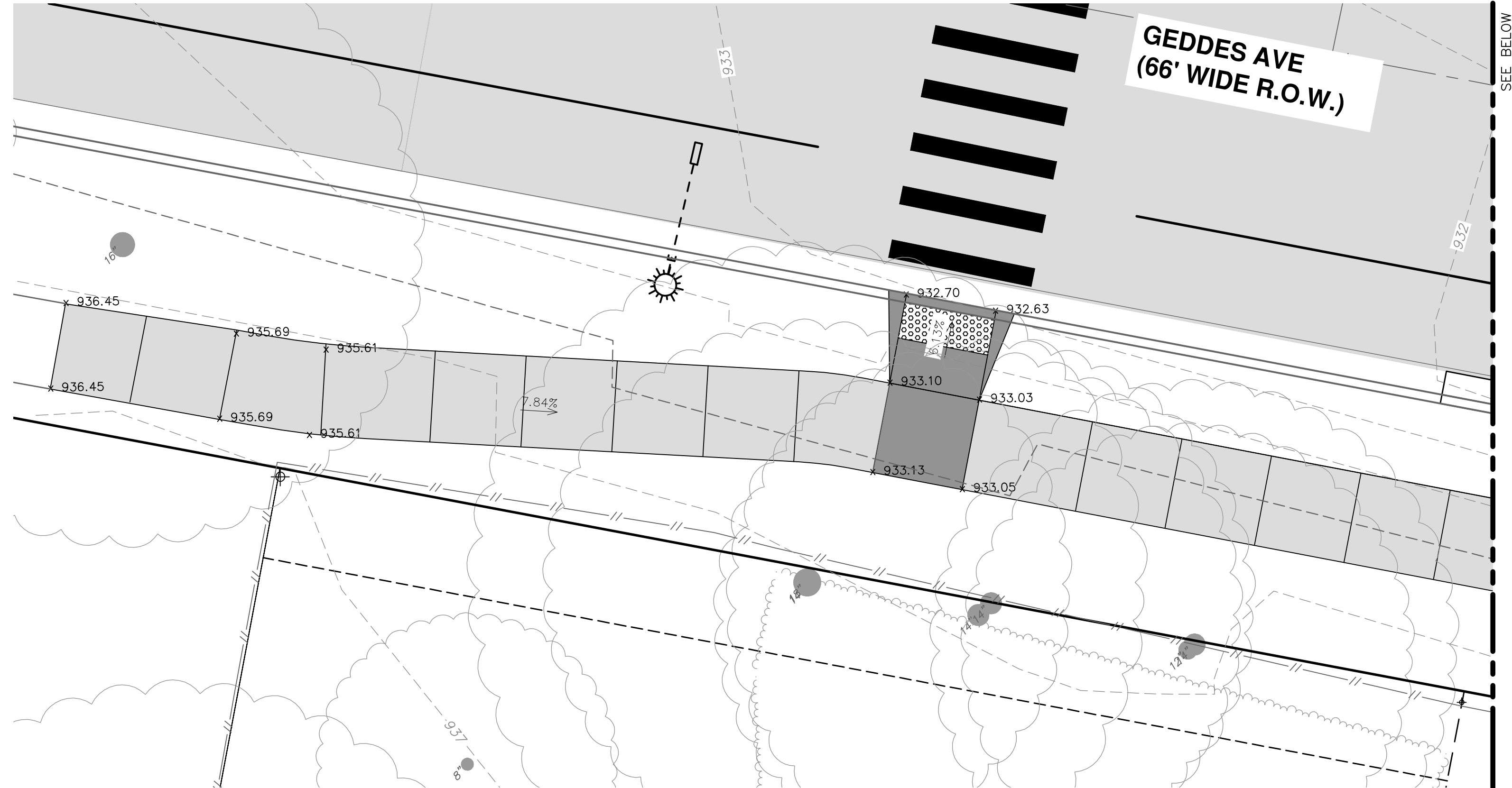
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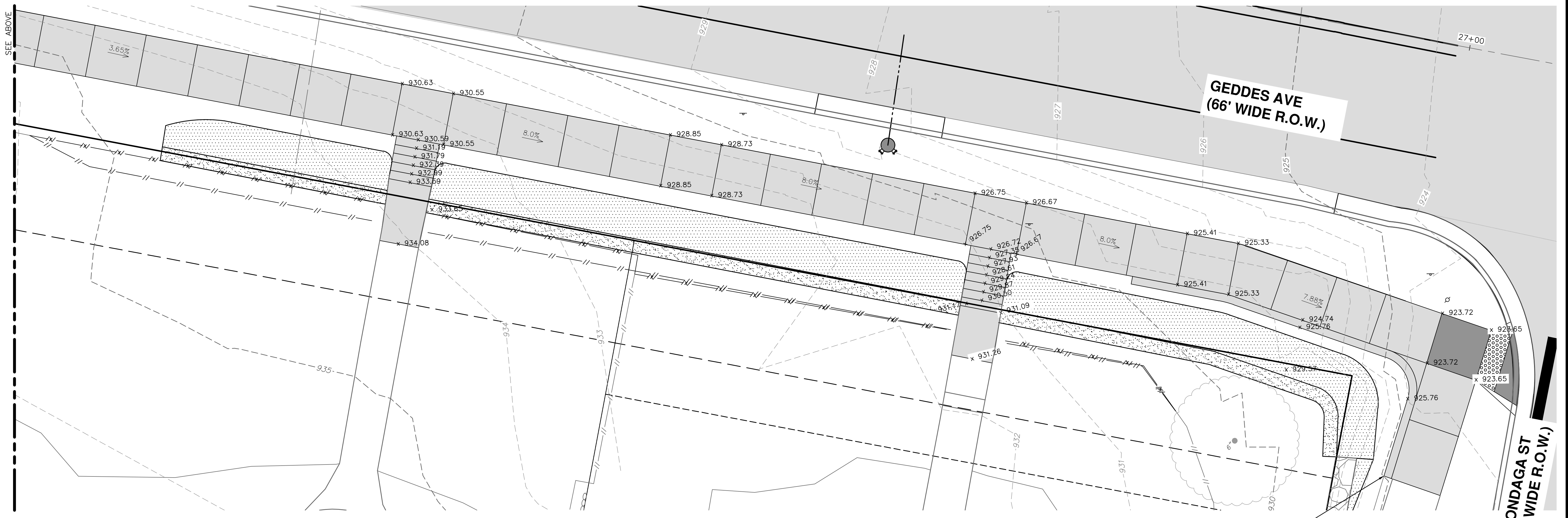
PLAN VIEW



PLAN VIEW



PLAN VIEW



PLAN VIEW

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

GEDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

GEDES AVENUE

DETAILED GRADING PLAN IV

SCALE PLAN: 1" = 5'

DRAWING No. 2022-009-33

SHEET No. 33 OF 53

811

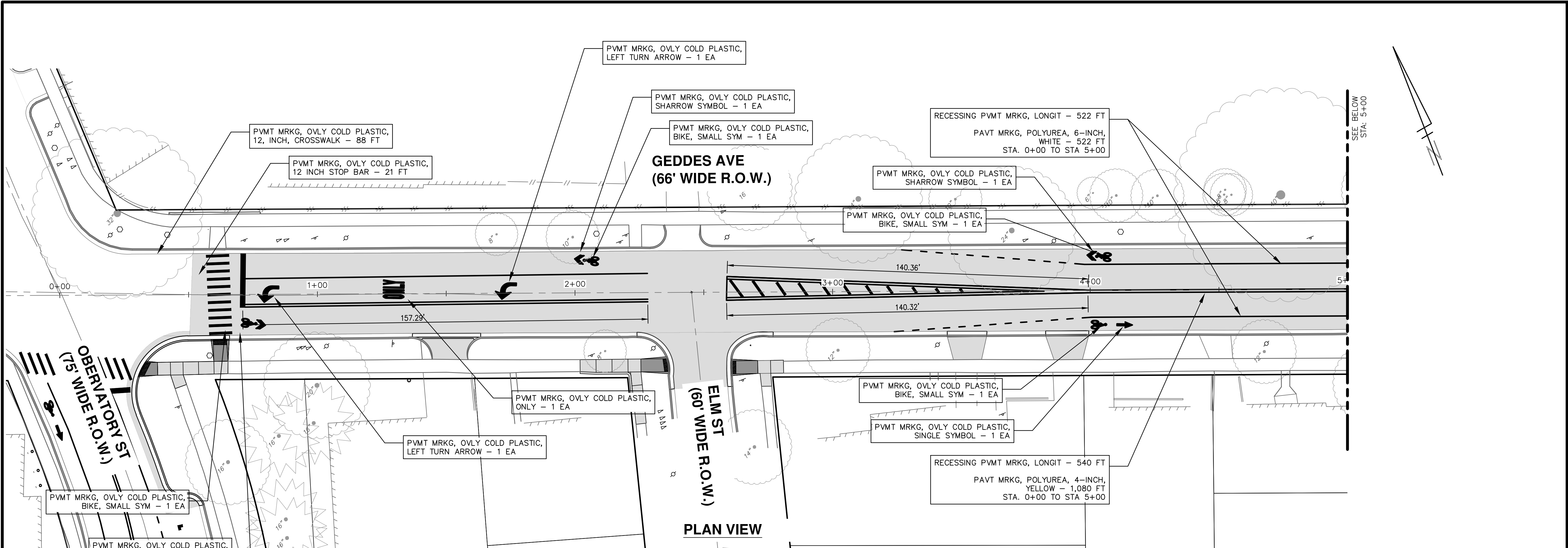
Know what's below. Call before you dig.

| REV. | DATE | DRAWN | CHECKED |
|------|------------|-------|---------|
| 1 | 02/07/2022 | BWA | CJE |
| 2 | 03/16/2022 | BWA | CJE |
| 3 | 04/08/2022 | BWA | CJE |

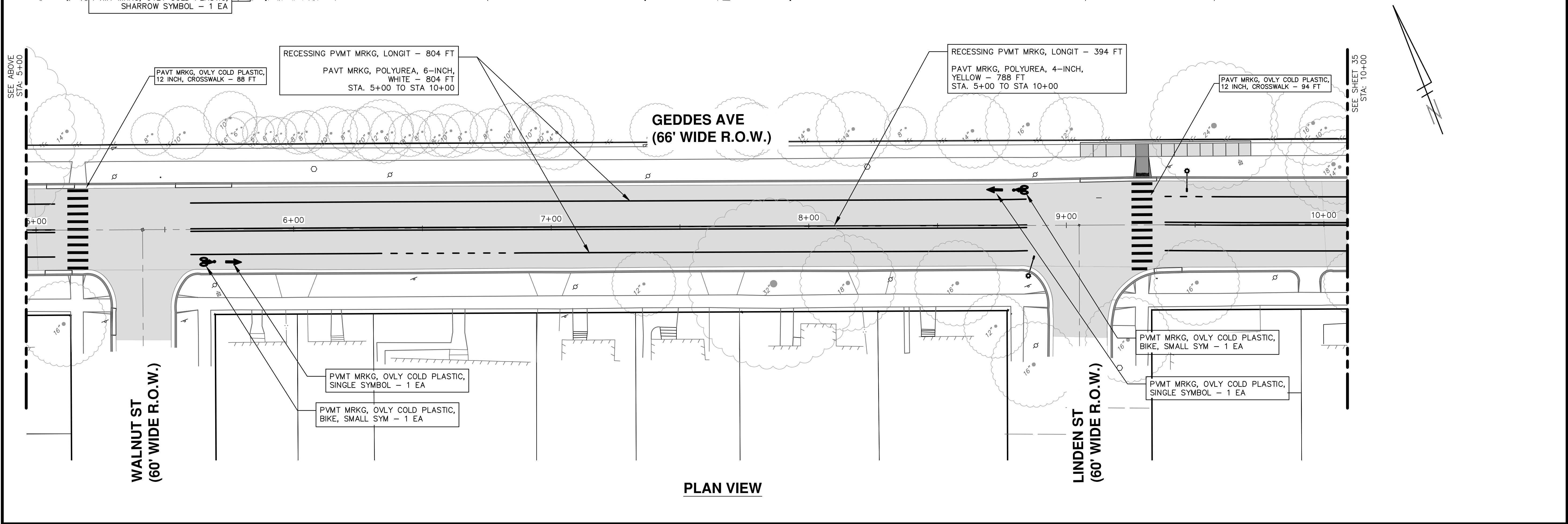
DESCRIPTION: 30% PRELIMINARY PLAN

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C:\Civil_3D\Projects\Ged-Hur\drawing\151604C-115.dwg Dwg Created: 13-Jan-22 -- _02 standard bw.stb - Plot Date: 11-Apr-22



PLAN VIEW



PLAN VIEW

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2022-009-34

SHEET No. 34 OF 53

GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

GEDDES AVENUE

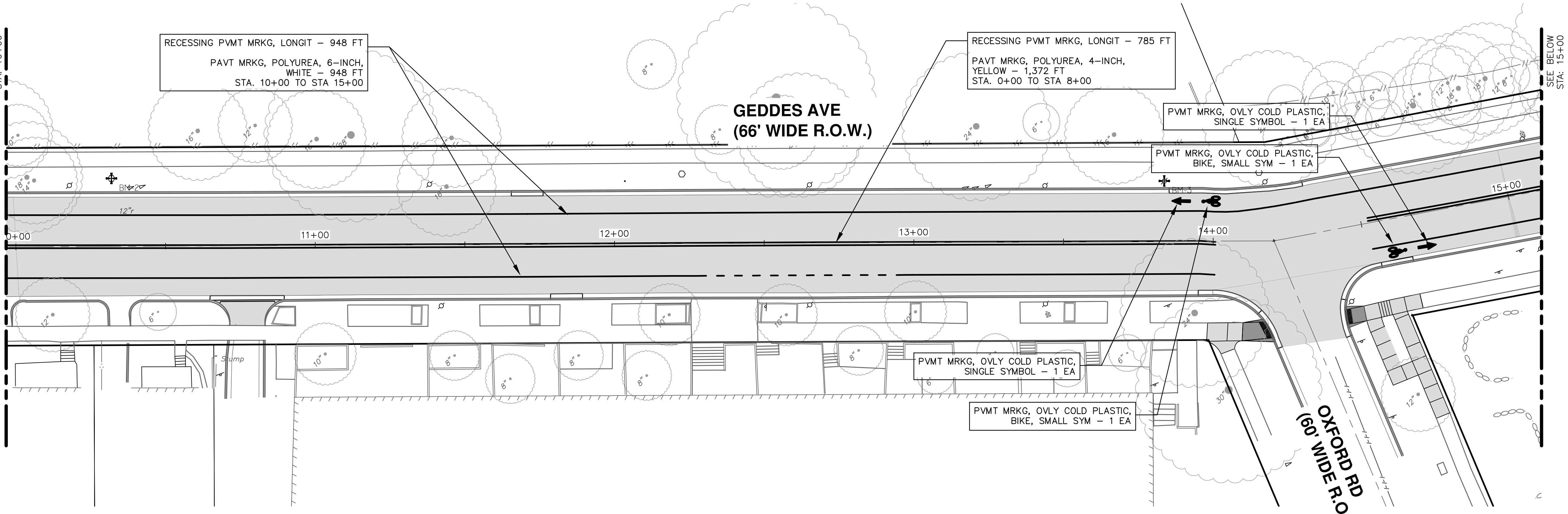
PAVEMENT MARKING PLAN STA 0+00 TO 10+00

REV. DESCRIPTION DATE DRAWN CHECKED

| | | | | |
|---|----------------------|------------|-----|-----|
| 3 | BID SET | 04/08/2022 | BWA | C/E |
| 2 | 70% DESIGN PLAN | 03/16/2022 | BWA | C/E |
| 1 | 30% PRELIMINARY PLAN | 02/07/2022 | BWA | C/E |

811
Know what's below.
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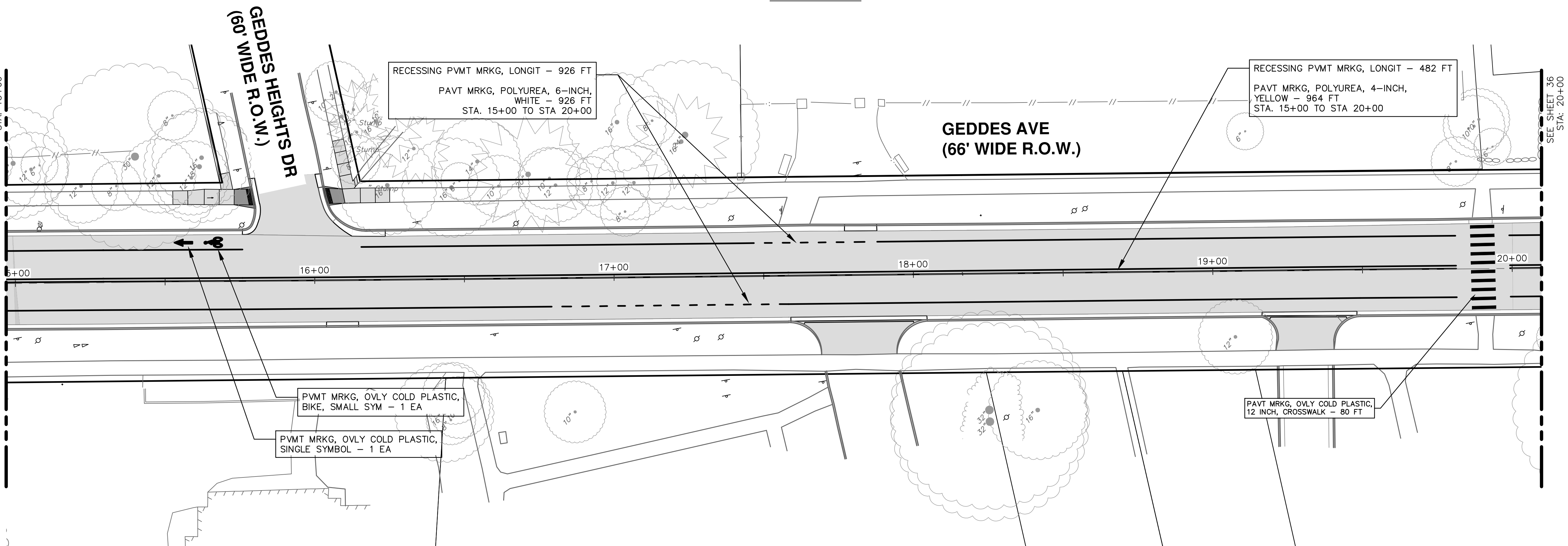
SEE SHEET 34
STA: 10+00



SEE BELOW
STA: 15+00

PLAN VIEW

SEE ABOVE
STA: 15+00



SEE SHEET 36
STA: 20+00

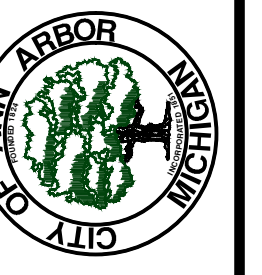
PLAN VIEW



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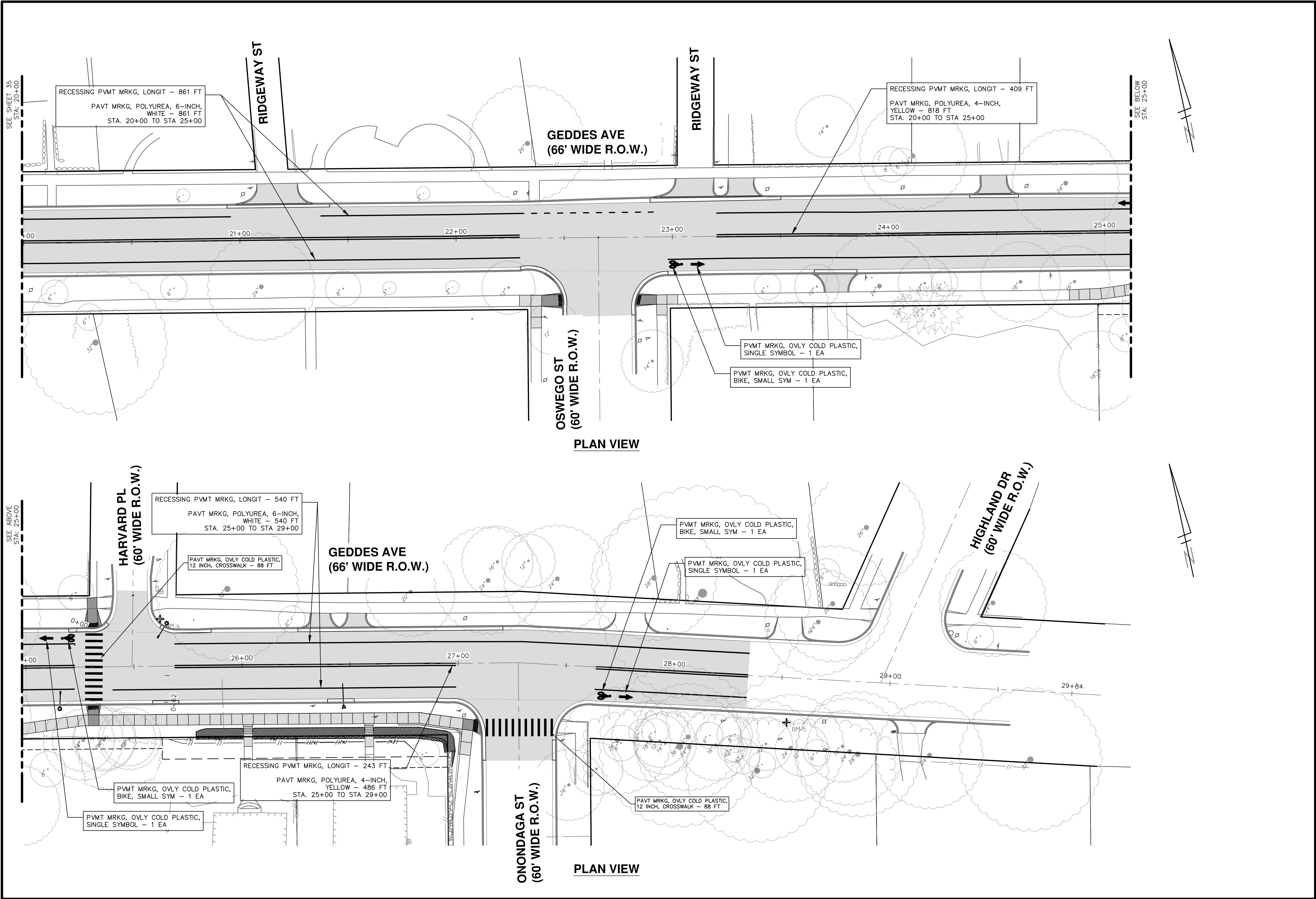
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|----------------------|------------|-------|---------|
| 3 | BID SET | 04/08/2022 | BWA | C/E |
| 2 | 70% DESIGN PLAN | 03/16/2022 | BWA | C/E |
| 1 | 30% PRELIMINARY PLAN | 02/07/2022 | BWA | C/E |

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GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT
GEDDES AVENUE
PAVEMENT MARKING PLAN STA 10+00 TO 20+00

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2022-008-35



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2022-008-36

GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

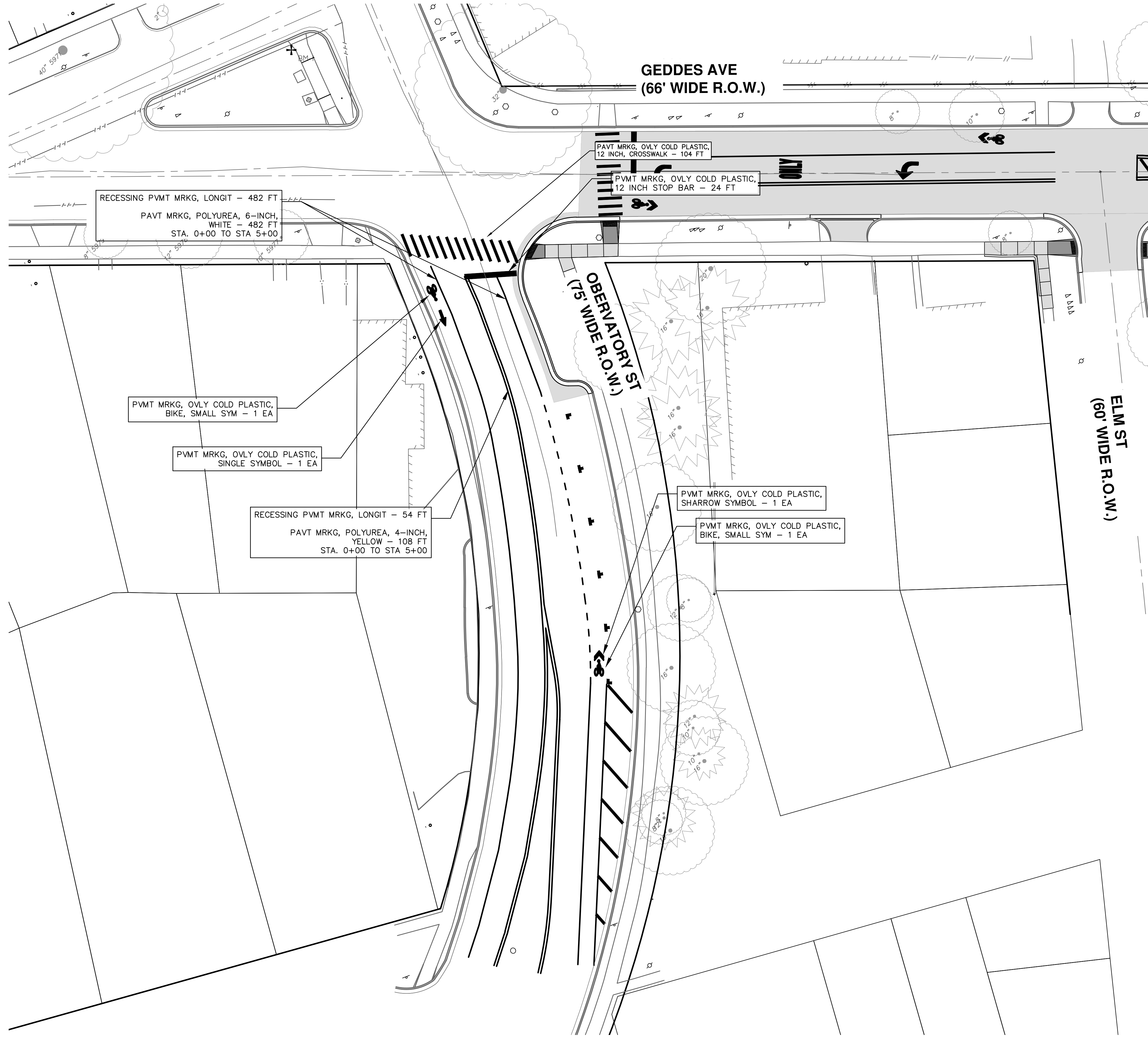
GEDDES AVENUE

PAVEMENT MARKING PLAN STA 20+00 TO 30+00

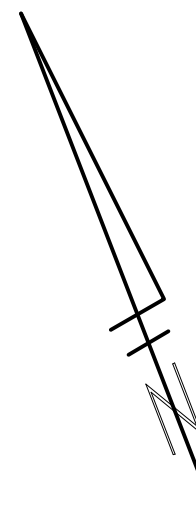
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|----------------------|------------|-------|---------|
| 1 | 30% PRELIMINARY PLAN | 02/07/2022 | BWA | C/E |
| 2 | 70% DESIGN PLAN | 03/16/2022 | BWA | C/E |
| 3 | BID SET | 04/08/2022 | BWA | C/E |


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Call before you dig.



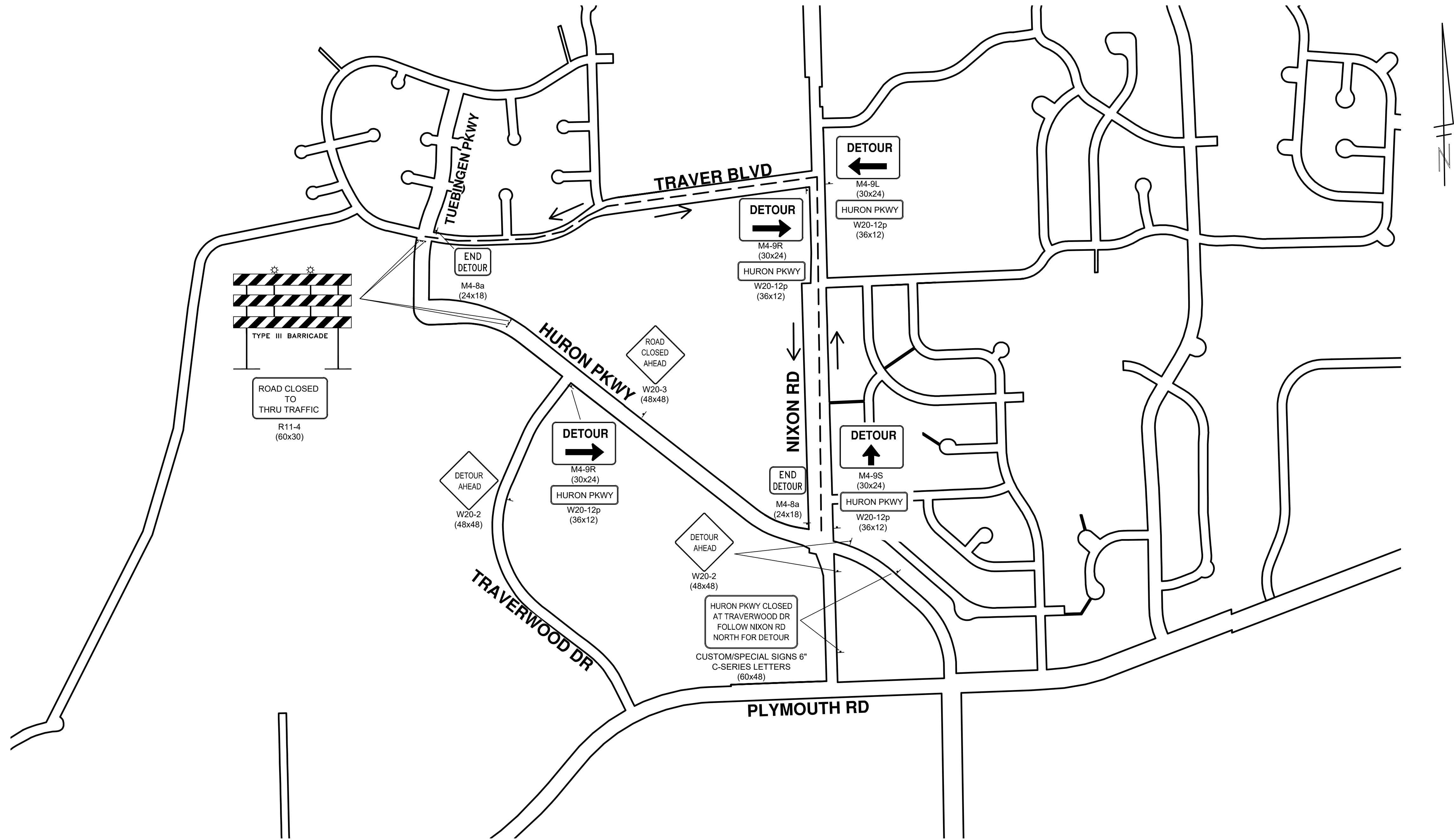
PLAN VIEW



| | | | |
|--|-----------------------------------|---|--|
|  | | CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT GEDDES AVENUE PAVEMENT MARKING PLAN STA 0+00 TO 5+00 | |
| SCALE PLAN: 1" = 20' PROFILE: 1" = 2' | DRAWING No. 2022-009-37 | CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-0647 734-794-6410 www.a2gov.org | REV. DESCRIPTION 1 30% PRELIMINARY PLAN 2 70% DESIGN PLAN 3 BID SET |
| SHEET No. 37 OF 53 | DATE 02/07/2022 | BWA BWA BWA | CHECKED DRAWN DATE |



NOTES:
 CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC DURING CONSTRUCTION. CLOSURES ON HURON PARKWAY SHALL BE ONE SINGLE LANE AT A TIME EXCEPT WHERE OTHERWISE SPECIFIED, AS NECESSARY TO COMPLETE WORK. RESIDENTIAL ACCESS TO APARTMENT ENTRANCE DRIVES OFF TUEBINGEN PARKWAY SHALL BE MAINTAINED AT ALL TIMES.



HURON PARKWAY/ TUEBINGEN DETOUR

| TRAFFIC CONTROL SIGN | | |
|----------------------|---------------|----------|
| SIGN | NUMBER | QUANTITY |
| | W20-2 (48x48) | 3 |
| | W20-3 (48x48) | 1 |
| | M4-9R (30x24) | 2 |
| | M4-9S (30x24) | 1 |

| TRAFFIC CONTROL SIGN | | |
|----------------------|-----------------|----------|
| SIGN | NUMBER | QUANTITY |
| | M4-9L (30x24) | 1 |
| | W20-12p (36x12) | 4 |
| | R11-4 (60x30) | 2 |
| | M4-8a (24x18) | 2 |
| | CUSTOM (60x48) | 2 |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

HURON PARKWAY - TUEBINGEN

TRAFFIC CONTROL PLAN I

SCALE PLAN: 1" = 20'

DRAWING No. 2022-008-38

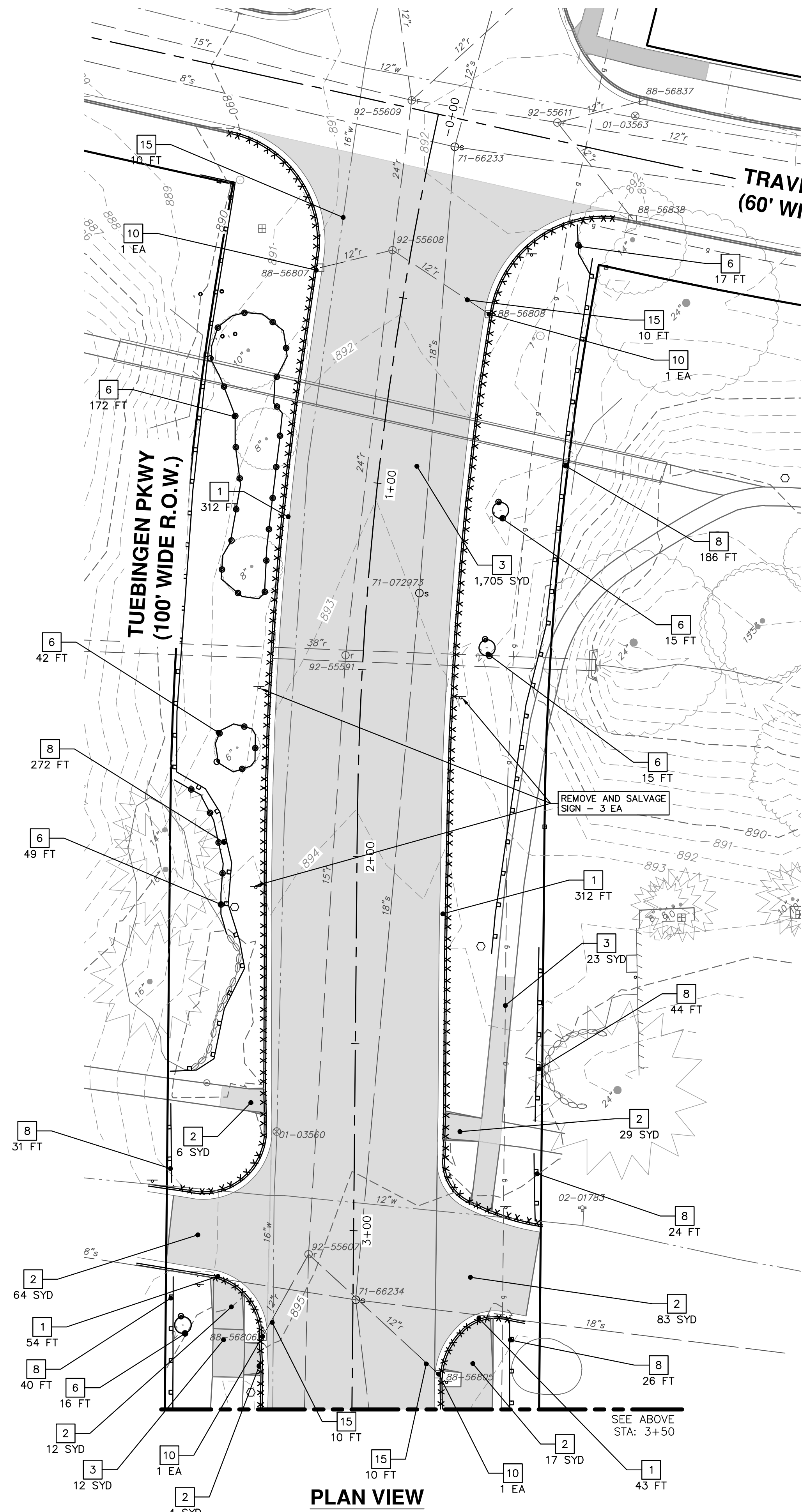
SHEET No. 38 OF 53

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| REV. | DATE | DESCRIPTION |
|------|------------|----------------------|
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN |
| 2 | 03/16/2022 | 70% DESIGN PLAN |
| 3 | 04/08/2022 | BID SET |

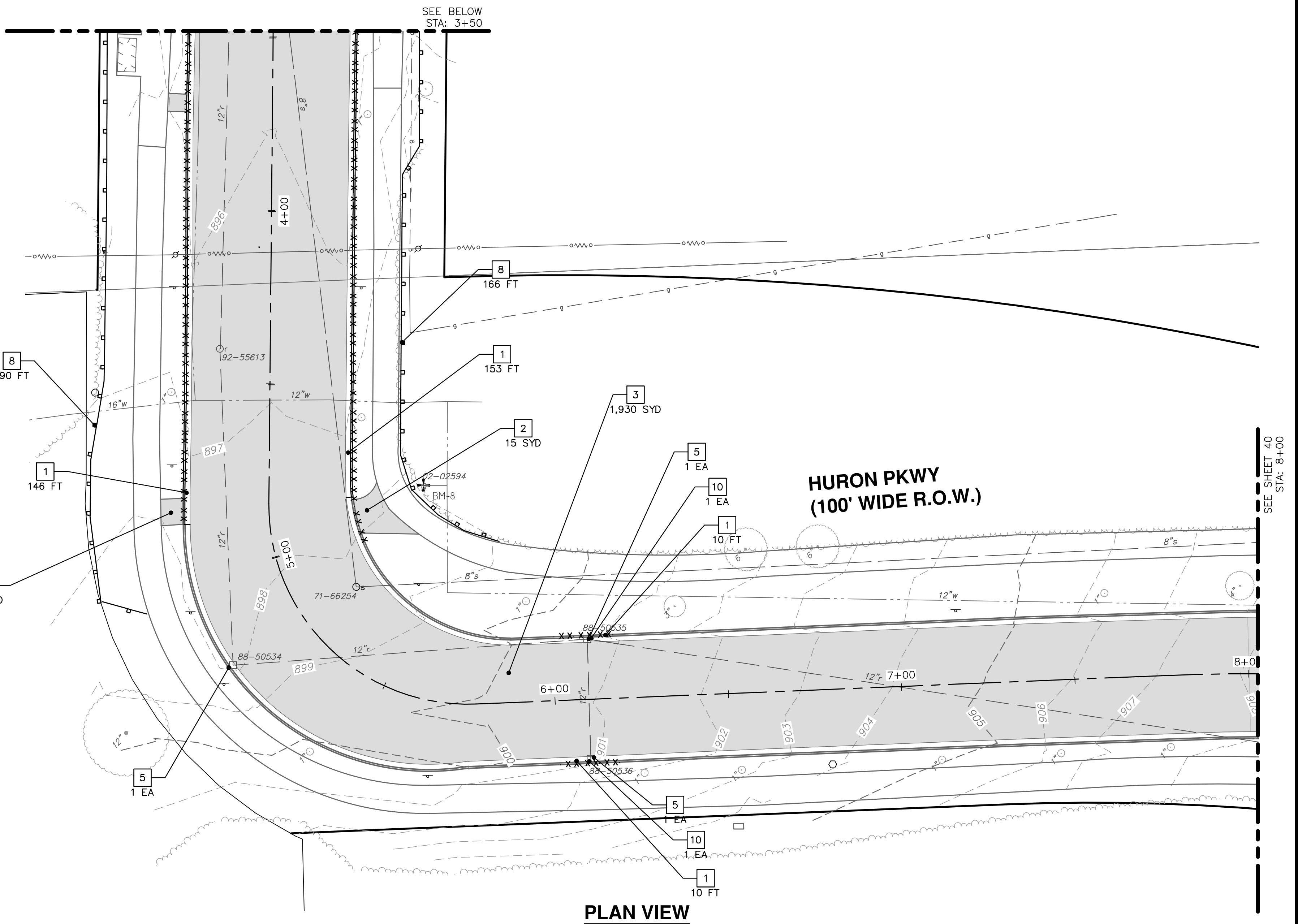
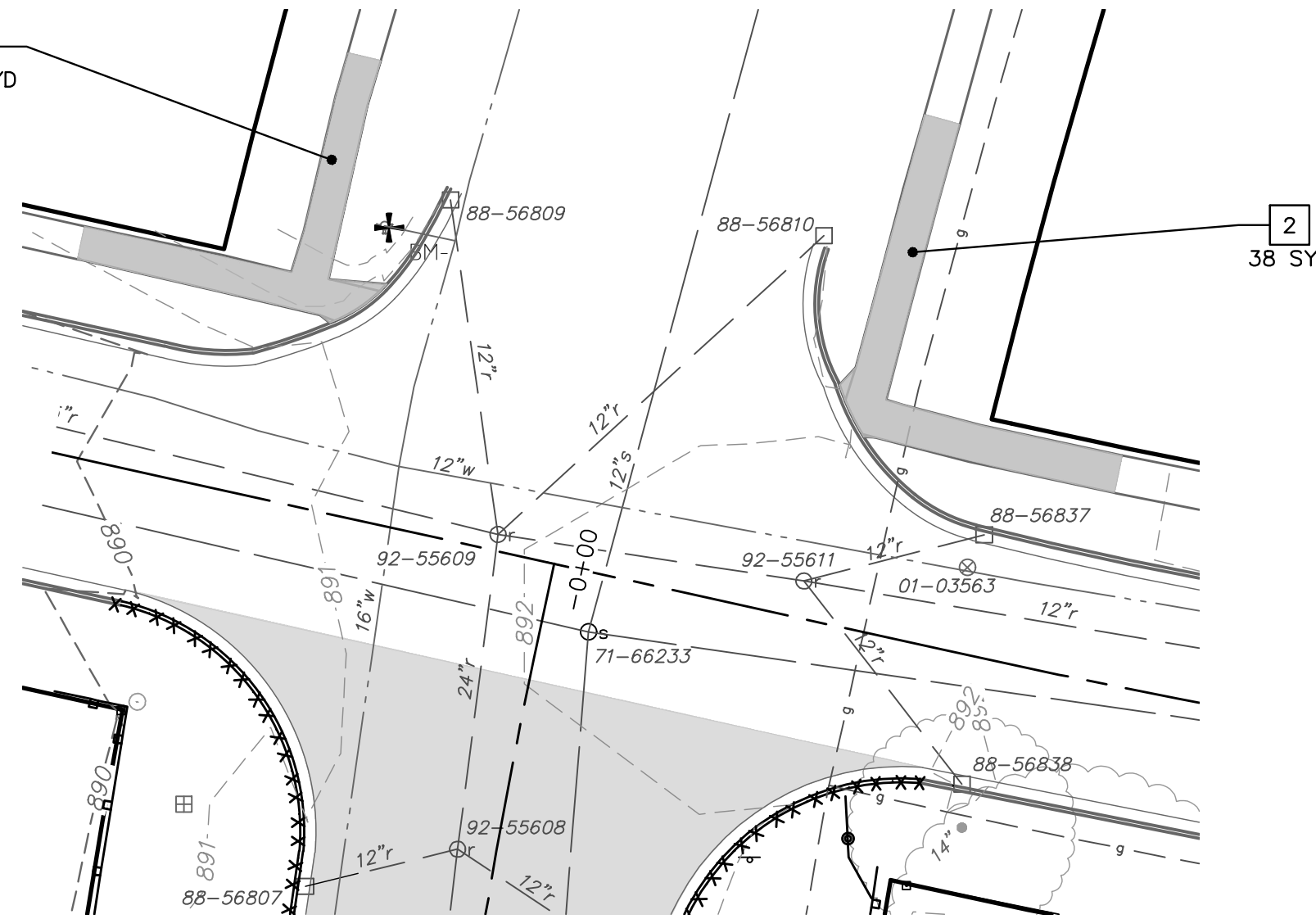
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PLAN VIEW

TRAVER BLVD
(60' WIDE R.O.W.)



PLAN VIEW

| EXISTING STORM SEWER STRUCTURE REMOVAL TABLE | | |
|--|--------------|--------------------|
| STRUCTURE | DEPTH (Feet) | REMOVE |
| 88-56807 | 4.90 | 2' Inlet (Cover K) |
| 88-56808 | 4.60 | 2' Inlet (Cover K) |
| 88-56806 | 5.00 | 2' Inlet (Cover K) |
| 88-56805 | 4.70 | 2' Inlet (Cover K) |
| 88-50534 | 2.60 | 2' Inlet (Cover K) |
| 88-50535 | 3.95 | 2' Inlet (Cover K) |
| 88-50536 | 3.60 | 2' Inlet (Cover K) |

| REMOVAL KEY | |
|-------------|---|
| KEY | DESCRIPTION |
| 1 | REMOVE CONCRETE CURB OR CURB & GUTTER, ANY TYPE |
| 2 | REMOVE CONCRETE SIDEWALK AND PAVEMENT - ANY THICKNESS |
| 3 | HMA SURFACE REMOVE* |
| 5 | INLET FILTER |
| 6 | PROTECTIVE FENCING |
| 8 | SILT FENCE |
| 10 | DR STRUCTURE, REMOVE |
| 15 | SEWER, ANY SIZE OR DEPTH, REMOVE |

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

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SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2022-009-39

SHEET No. 39 OF 53

GEDES & HURON PARKWAY/TUBINGEN RESURFACING PROJECT

HURON PARKWAY - TUBINGEN

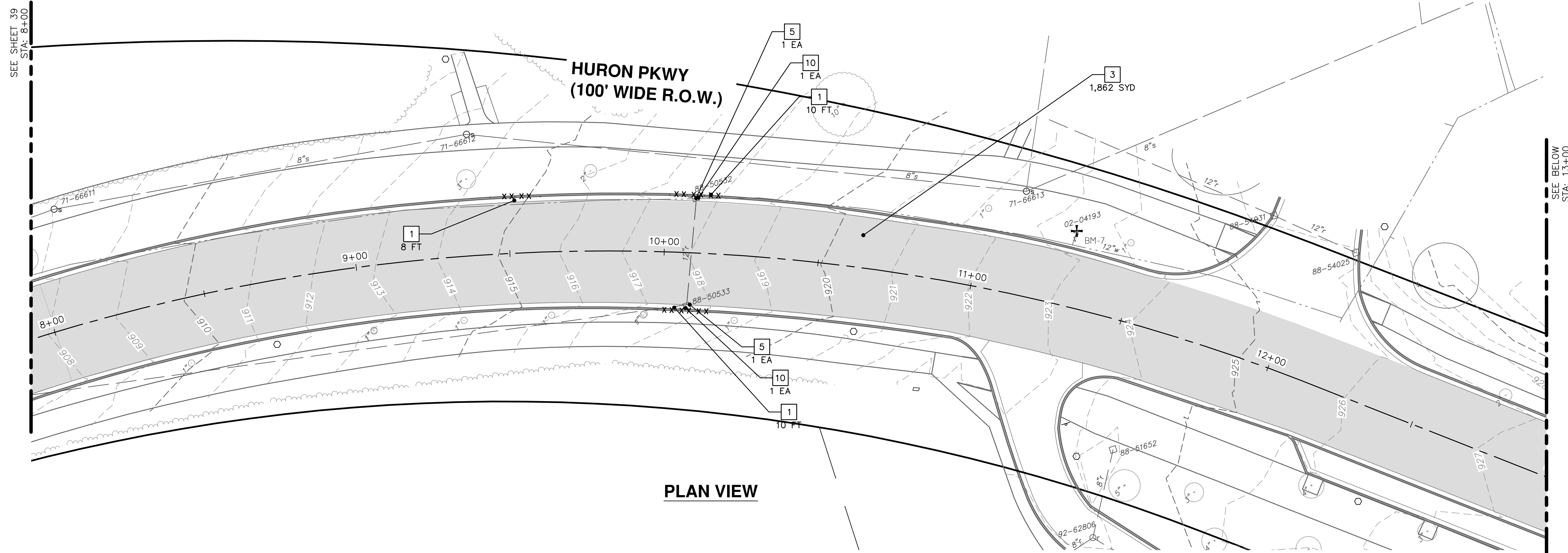
EXISTING CONDITIONS REMOVALS STA 0+00 TO 8+00

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REV. DESCRIPTION DATE DRAWN CHECKED

| | | | | | |
|---|----------------------|------------|-----|-----|-----|
| 3 | BID SET | 04/08/2022 | BWA | CJE | CJE |
| 2 | 70% DESIGN PLAN | 03/16/2022 | BWA | CJE | CJE |
| 1 | 30% PRELIMINARY PLAN | 02/07/2022 | BWA | CJE | CJE |

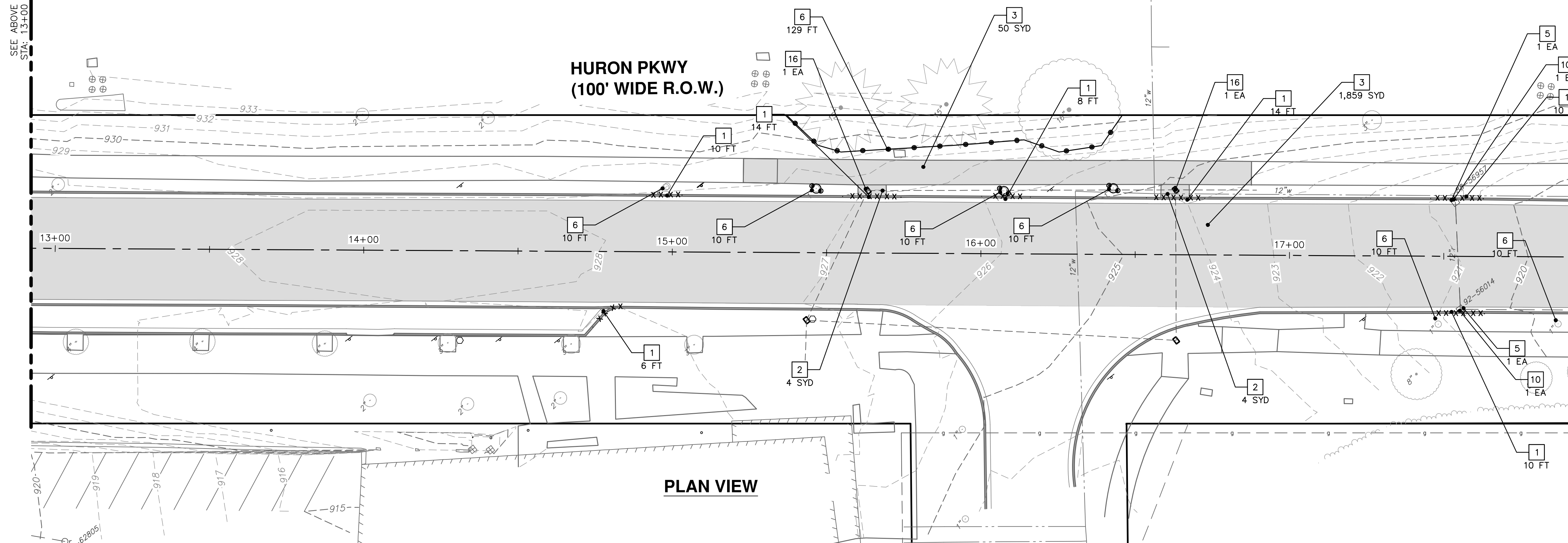
811
Know what's below.
Call before you dig.



PLAN VIEW

| REMOVAL KEY | |
|-------------|---|
| KEY | DESCRIPTION |
| 1 | REMOVE CONCRETE CURB OR CURB & GUTTER, ANY TYPE |
| 2 | REMOVE CONCRETE SIDEWALK AND PAVEMENT - ANY THICKNESS |
| 3 | HMA SURFACE REMOVE* |
| 5 | INLET FILTER |
| 6 | PROTECTIVE FENCING |
| 10 | DR STRUCTURE, REMOVE |
| 16 | HANDHOLE, REMOVE |

*SAWCUT FULL DEPTH AT REMOVAL LIMITS



PLAN VIEW

| EXISTING STORM SEWER STRUCTURE REMOVAL TABLE | | |
|--|--------------|--------------------|
| STRUCTURE | DEPTH (Feet) | REMOVE |
| 88-50532 | 12.60 | 2' Inlet (Cover K) |
| 88-50533 | 13.10 | 2' Inlet (Cover K) |
| 88-56957 | 5.30 | 2' Inlet (Cover K) |
| 92-56014 | 5.40 | 2' Inlet (Cover K) |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2022-009-40

SHEET No. 40 OF 53

GEDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

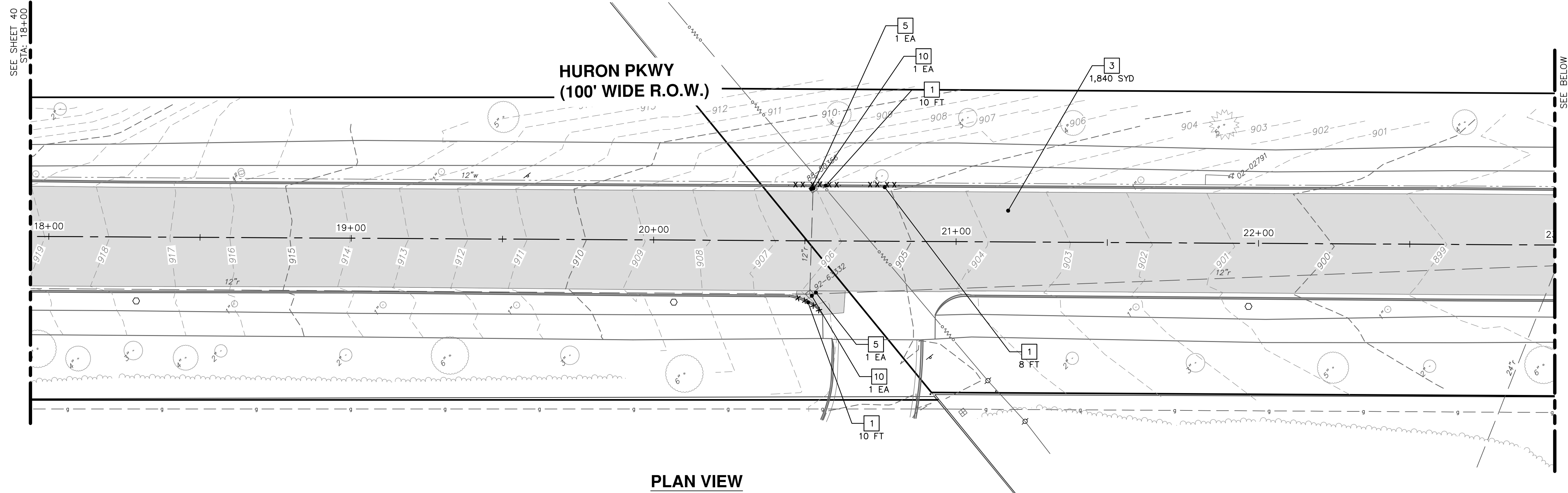
HURON PARKWAY - TUEBINGEN

EXISTING CONDITIONS REMOVALS STA 8+00 TO 18+00

| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|----------------------|------------|-------|---------|
| 1 | 30% PRELIMINARY PLAN | 02/07/2022 | BWA | C/E |
| 2 | 70% DESIGN PLAN | 03/16/2022 | BWA | C/E |
| 3 | BID SET | 04/08/2022 | BWA | C/E |

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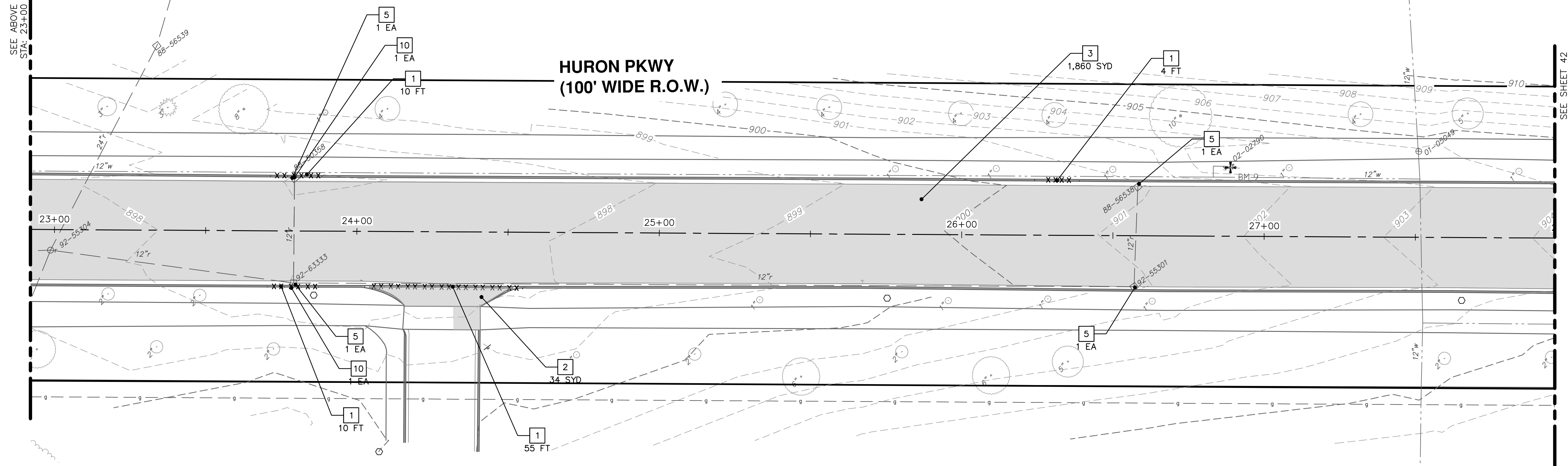
811
 Know what's below.
 Call before you dig.



PLAN VIEW

| REMOVAL KEY | |
|-------------|---|
| KEY | DESCRIPTION |
| 1 | REMOVE CONCRETE CURB OR CURB & GUTTER, ANY TYPE |
| 2 | REMOVE CONCRETE SIDEWALK AND PAVEMENT - ANY THICKNESS |
| 3 | HMA SURFACE REMOVE* |
| 5 | INLET FILTER |
| 10 | DR STRUCTURE, REMOVE |

*SAWCUT FULL DEPTH AT REMOVAL LIMITS



PLAN VIEW

| EXISTING STORM SEWER STRUCTURE REMOVAL TABLE | | |
|--|--------------|--------------------|
| STRUCTURE | DEPTH (Feet) | REMOVE |
| 88-50536 | 3.50 | 2' Inlet (Cover K) |
| 92-63332 | 4.20 | 2' Inlet (Cover K) |
| 88-50538 | 4.60 | 2' Inlet (Cover K) |
| 92-63333 | 5.80 | 2' Inlet (Cover K) |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2022-009-41

SHEET No. 41 OF 53

GEDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

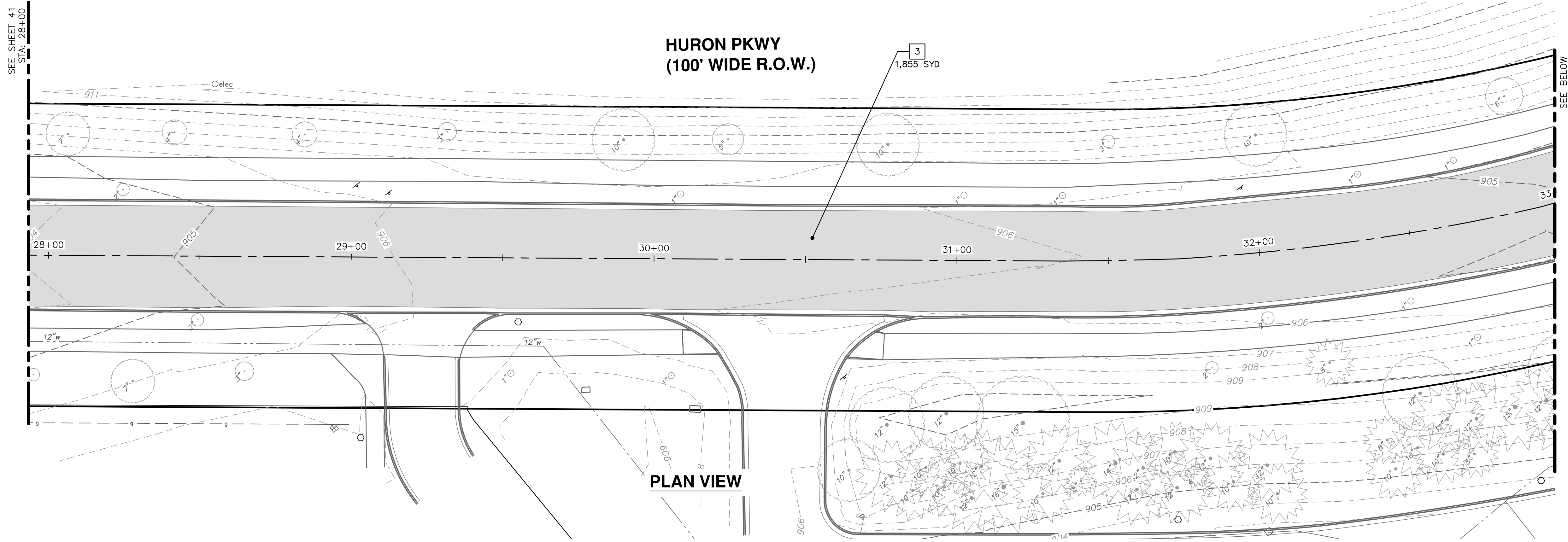
HURON PARKWAY - TUEBINGEN

EXISTING CONDITIONS REMOVALS STA 18+00 TO 28+00

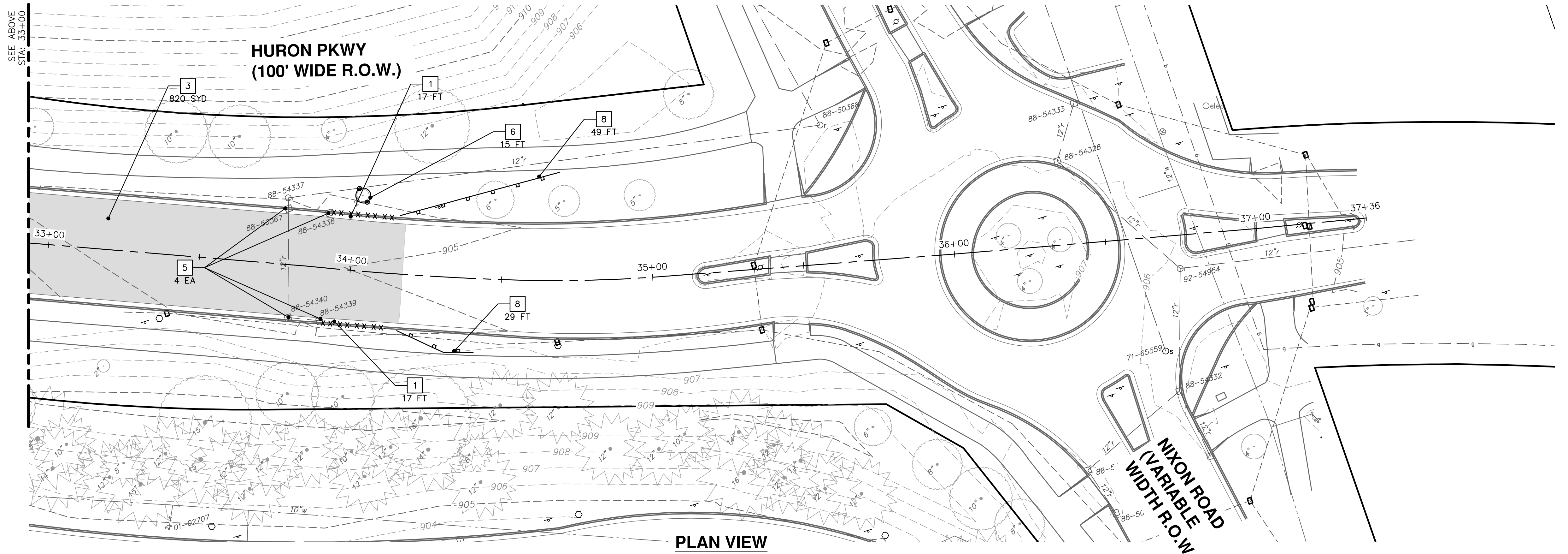
| | | | | |
|------|----------------------|------------|-------|---------|
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
| 3 | BID SET | 04/08/2022 | BWA | C/E |
| 2 | 70% DESIGN PLAN | 03/16/2022 | BWA | C/E |
| 1 | 30% PRELIMINARY PLAN | 02/07/2022 | BWA | C/E |

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PLAN VIEW



PLAN VIEW

| REMOVAL KEY | |
|-------------|--|
| KEY | DESCRIPTION |
| 1 | REMOVE CONCRETE CURB OR GUTTER, ANY TYPE |
| 3 | HMA SURFACE REMOVE* |
| 5 | INLET FILTER |
| 6 | PROTECTIVE FENCING |
| 8 | SILT FENCE |

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2022-009-42

SHEET No. 42 OF 53

GEDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

HURON PARKWAY - TUEBINGEN

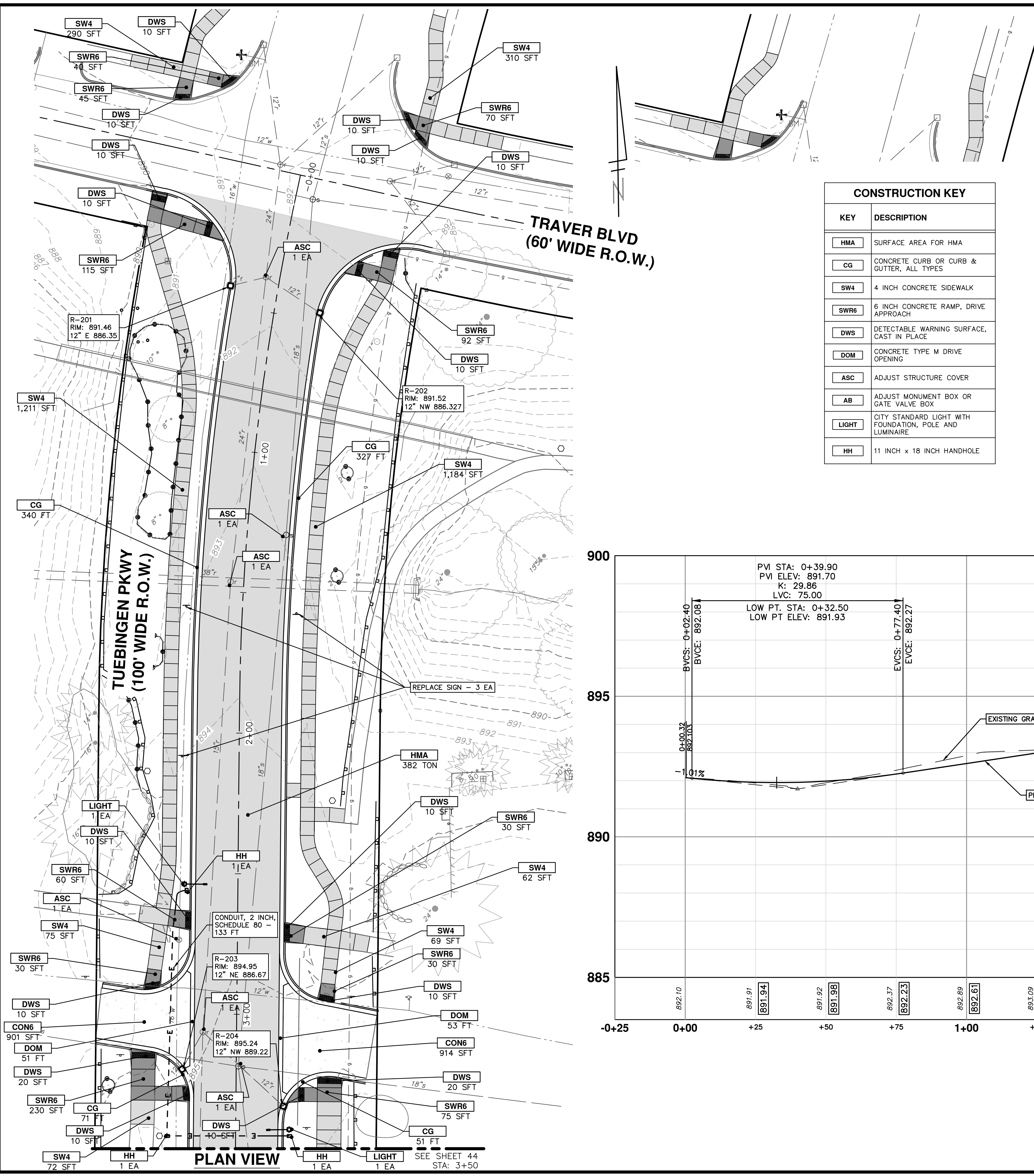
EXISTING CONDITIONS - REMOVALS STA 28+00 TO 38+00

| | | | | |
|------|----------------------|------------|-------|---------|
| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
| 1 | 30% PRELIMINARY PLAN | 02/07/2022 | BWA | C/E |
| 2 | 70% DESIGN PLAN | 03/16/2022 | BWA | C/E |
| 3 | BID SET | 04/08/2022 | BWA | C/E |

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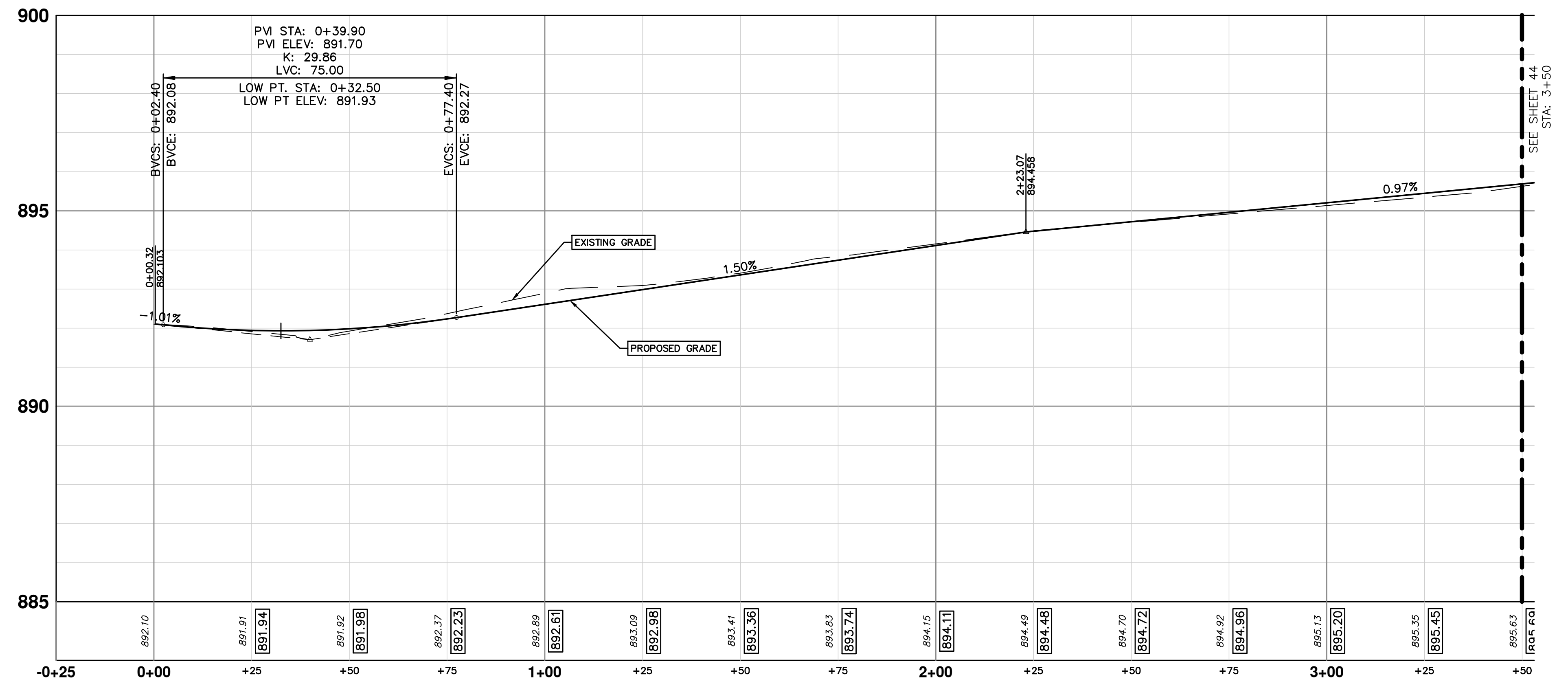


CONSTRUCTION KEY


| KEY | DESCRIPTION |
|-------|---|
| HMA | SURFACE AREA FOR HMA |
| CG | CONCRETE CURB OR CURB & GUTTER, ALL TYPES |
| SW4 | 4 INCH CONCRETE SIDEWALK |
| SWR6 | 6 INCH CONCRETE RAMP, DRIVE APPROACH |
| DWS | DETECTABLE WARNING SURFACE, CAST IN PLACE |
| DOM | CONCRETE TYPE M DRIVE OPENING |
| ASC | ADJUST STRUCTURE COVER |
| AB | ADJUST MONUMENT BOX OR GATE VALVE BOX |
| LIGHT | CITY STANDARD LIGHT WITH FOUNDATION, POLE AND LUMINAIRE |
| HH | 11 INCH x 18 INCH HANDHOLE |

STORM SEWER STRUCTURE TABLE

| STRUCTURE | STATION | INVERT ELEV. SIZE & DIRECTION | RIM ELEVATION | DEPTH | SIZE | TYPE | SUMP |
|-----------|---------|---|---------------|-------|----------|--------------------|------|
| R-201 | 0+43 | 12" E 886.35 | 891.46 | 7.11 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-202 | 0+47 | 12" NW 886.27 | 891.52 | 7.25 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-203 | 3+20 | 12" NE 888.67 | 894.95 | 8.28 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-204 | 3+33 | 12" NW 889.22 | 895.24 | 6.02 | 24" Dia. | 2' Inlet (Cover K) | 0' |
| R-205 | 6+10 | 12" S 896.68 12" E 896.68 12" W 896.68 | 900.63 | 5.95 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-206 | 6+10 | 12" N 897.05 | 900.65 | 5.60 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-207 | 10+10 | 12" S 905.06 12" W 905.76 | 917.67 | 14.61 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-208 | 10+08 | 12" N 904.61 12" W 904.51 | 917.62 | 15.11 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-209 | 17+54 | 12" SW 915.37 | 920.67 | 7.30 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-210 | 17+55 | 12" NE 915.22 12" SE 915.22 | 920.62 | 7.40 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-211 | 20+53 | 12" SW 902.55 | 906.05 | 5.50 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-212 | 20+52 | 12" NW 901.69 12" NE 901.69 12" SE 901.64 | 905.84 | 6.20 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-213 | 23+79 | 12" SW 892.20 | 896.80 | 6.60 | 24" Dia. | 2' Inlet (Cover K) | 2' |
| R-214 | 23+79 | 12" NW 891.93 12" NE 891.93 12" SE 891.93 | 896.93 | 7.00 | 24" Dia. | 2' Inlet (Cover K) | 2' |



PROFILE VIEW



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|--|---------------------------|------------|-----|-----|-------------|
| | | | | | |
| CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-6847 www.a2gov.org | BID SET 3 | 04/08/2022 | BWA | C/E | CHECKED |
| | 70% DESIGN PLAN 2 | 03/16/2022 | BWA | C/E | DRAWN |
| | 30% PRELIMINARY PLAN 1 | 02/07/2022 | BWA | C/E | DATE |
| | REV. | | | | DESCRIPTION |

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GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

HURON PARKWAY - TUEBINGEN

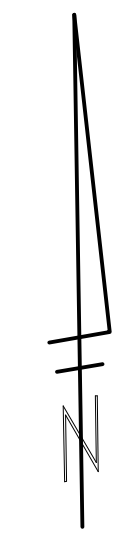
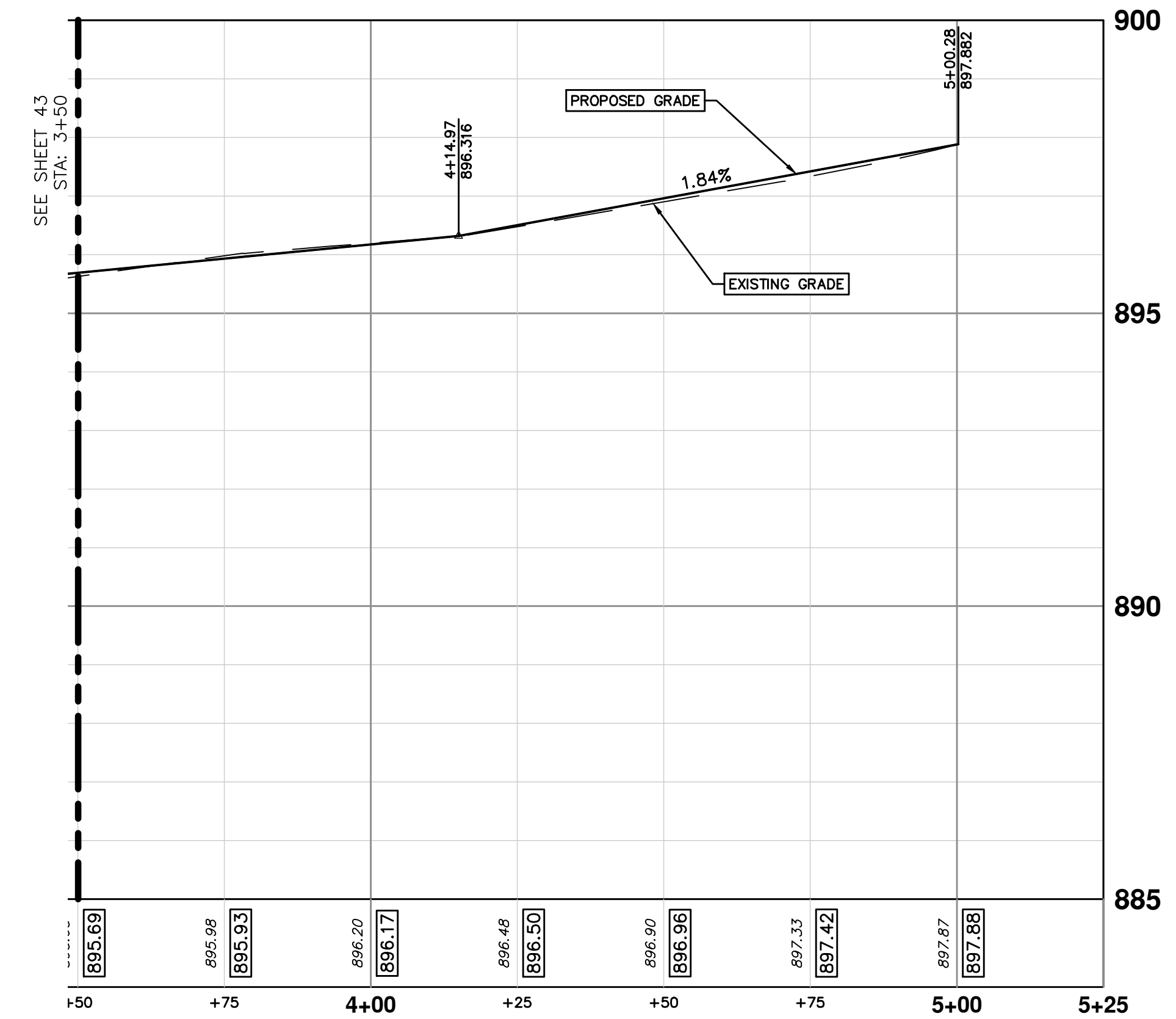
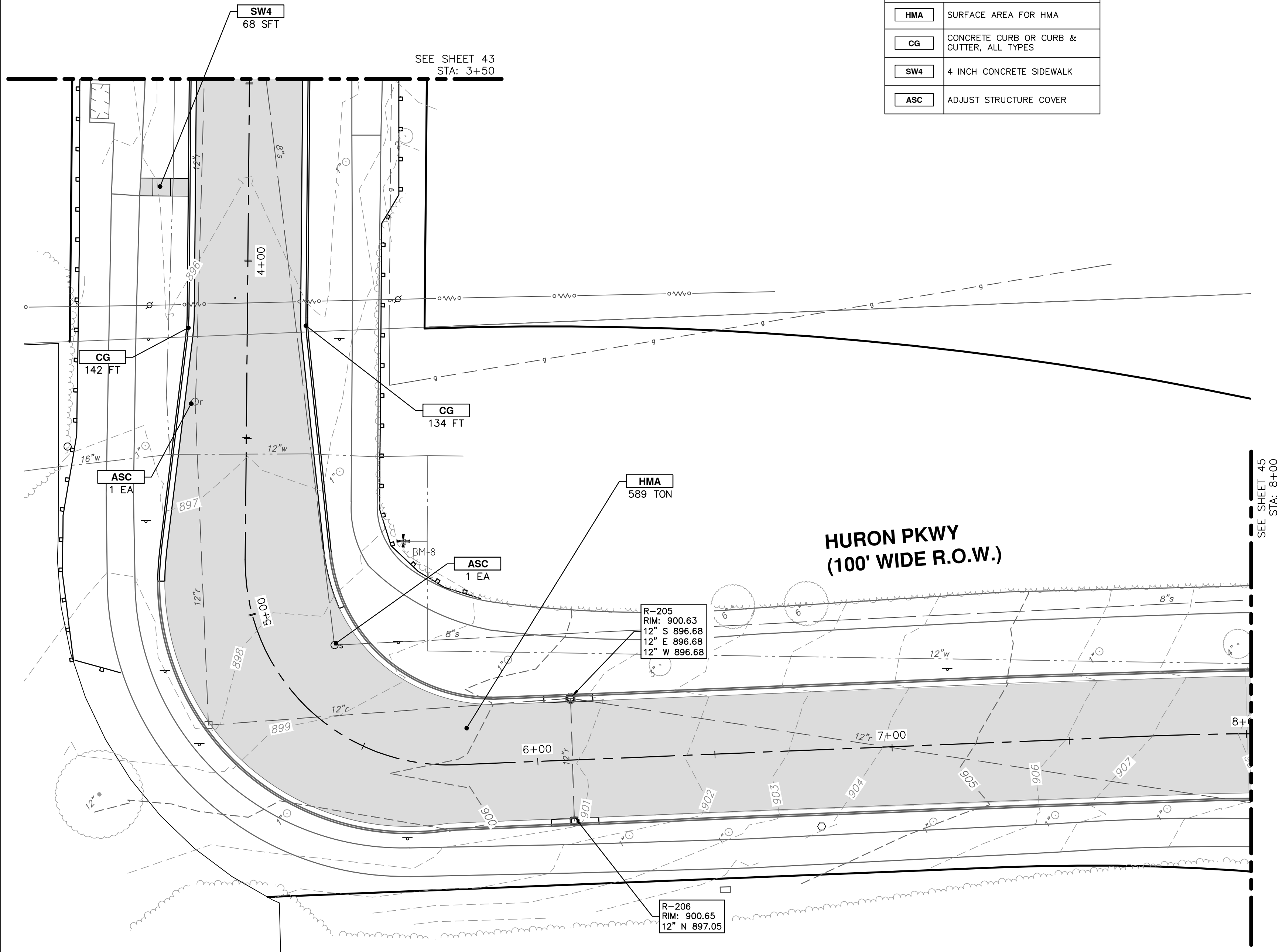
PAVING PLAN STA 0+00 TO 3+50

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

DRAWING No. 2022-009-43

SHEET No. 43 OF 53

| CONSTRUCTION KEY | |
|------------------|---|
| KEY | DESCRIPTION |
| HMA | SURFACE AREA FOR HMA |
| CG | CONCRETE CURB OR CURB & GUTTER, ALL TYPES |
| SW4 | 4 INCH CONCRETE SIDEWALK |
| ASC | ADJUST STRUCTURE COVER |



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SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2022-009-44

44 OF 53

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GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

HURON PARKWAY - TUEBINGEN

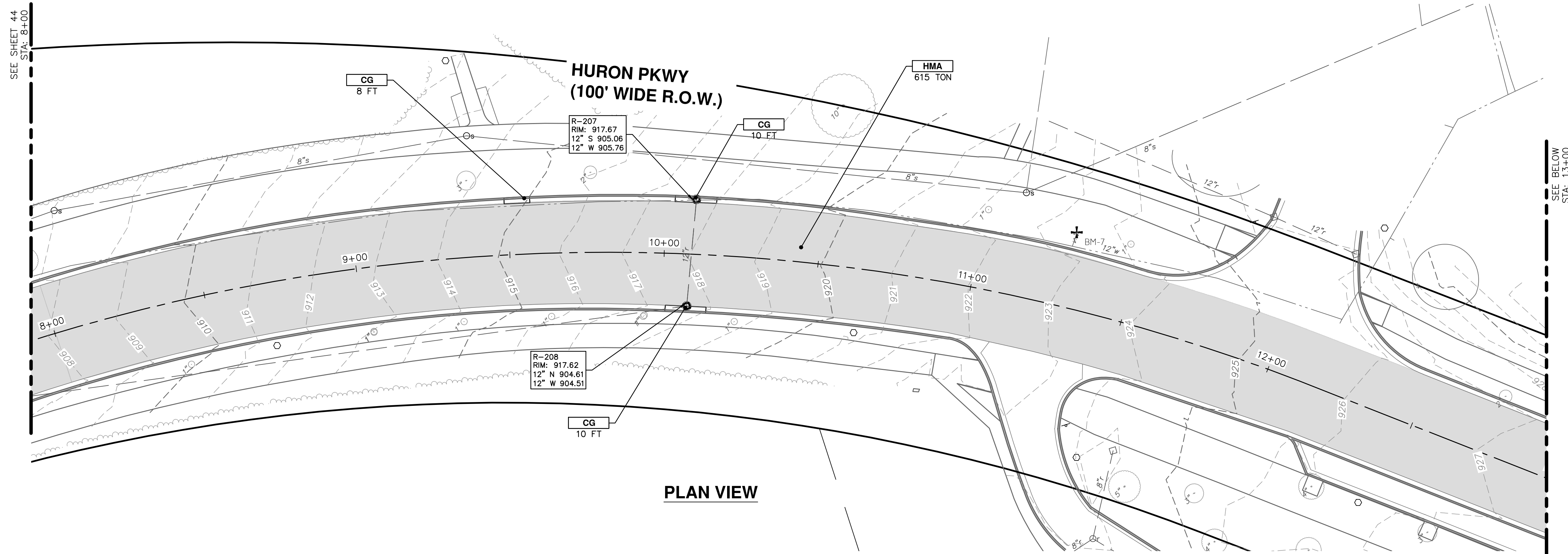
PAVING PLAN STA. 3+50 TO 8+00

| REV. | DATE | DRAWN | CHECKED | DESCRIPTION |
|------|------------|-------|---------|----------------------|
| 1 | 02/07/2022 | BWA | C/E | 30% PRELIMINARY PLAN |
| 2 | 03/16/2022 | BWA | C/E | 70% DESIGN PLAN |
| 3 | 04/08/2022 | BWA | C/E | BID SET |

CITY OF ANN ARBOR
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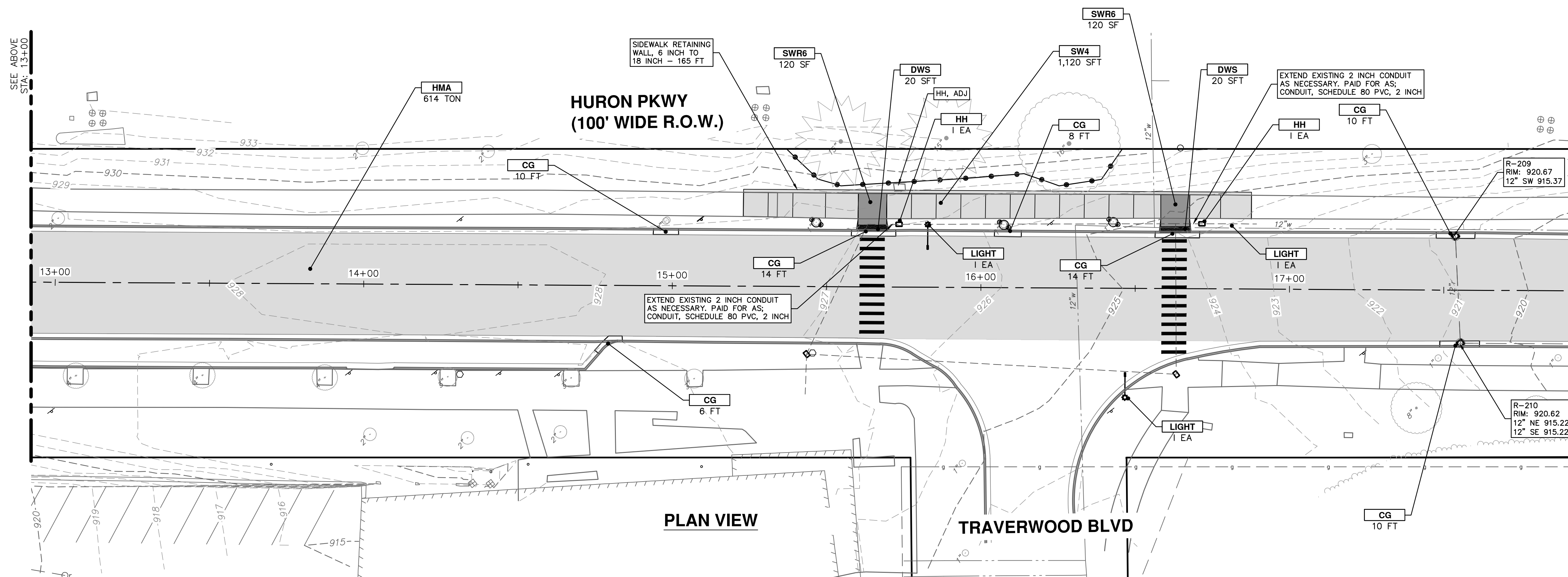
Know what's below.
Call Before you dig.

C:\Civil_3D\Projects\Ged-Hur_drawing\151604C-206.dwg Dwg Created: 13-Jan-22 - _a2_standard bw.stb - Plot Date: 11-Apr-22



PLAN VIEW

| CONSTRUCTION KEY | |
|------------------|---|
| KEY | DESCRIPTION |
| HMA | SURFACE AREA FOR HMA |
| CG | CONCRETE CURB OR CURB & GUTTER, ALL TYPES |
| SW4 | 4 INCH CONCRETE SIDEWALK |
| SWR6 | 6 INCH CONCRETE RAMP, DRIVE APPROACH |
| DWS | DETECTABLE WARNING SURFACE, CAST IN PLACE |
| LIGHT | CITY STANDARD LIGHT WITH FOUNDATION, POLE AND LUMINAIRE |
| HH | 11 INCH x 18 INCH HANDHOLE |



PLAN VIEW

TRAVERWOOD BLVD

NOTE:
CONTRACTOR SHALL UTILIZE EXISTING CONDUIT AT TRAVERWOOD INTERSECTION FOR INSTALLATION OF ADDED LIGHTS. PAID FOR AS, DB CABLE, IN CONDUIT.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

GEDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

HURON PARKWAY - TUEBINGEN

PAVING PLAN STA 8+00 TO 18+00

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

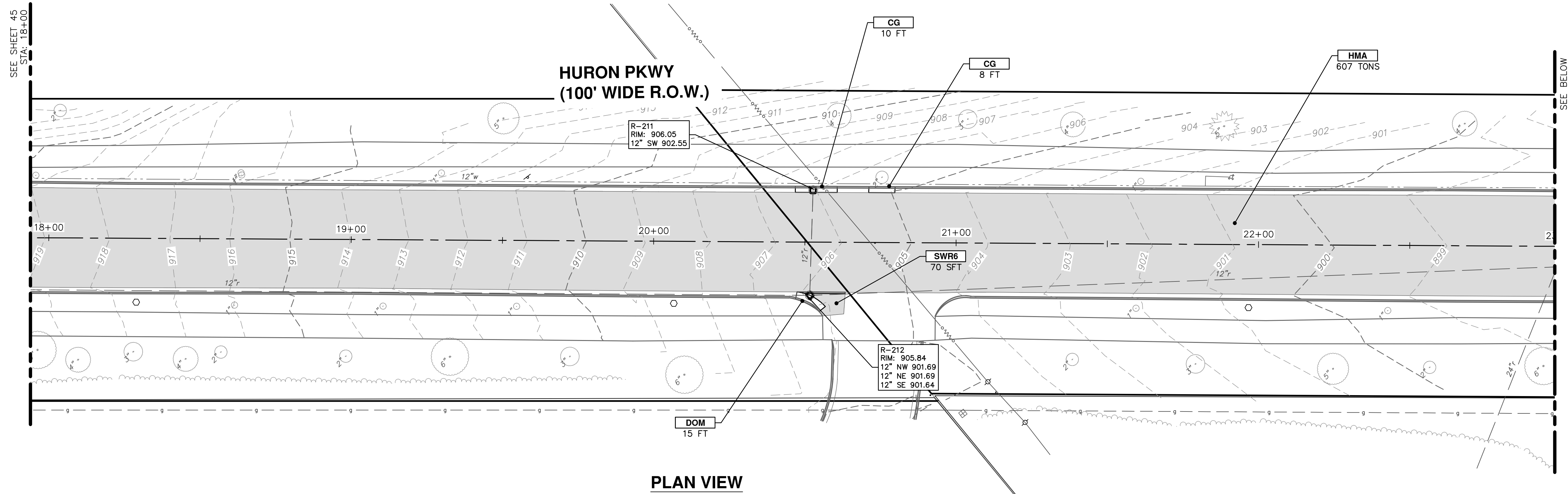
DRAWING No. 2022-009-45

SHEET No. 45 OF 53

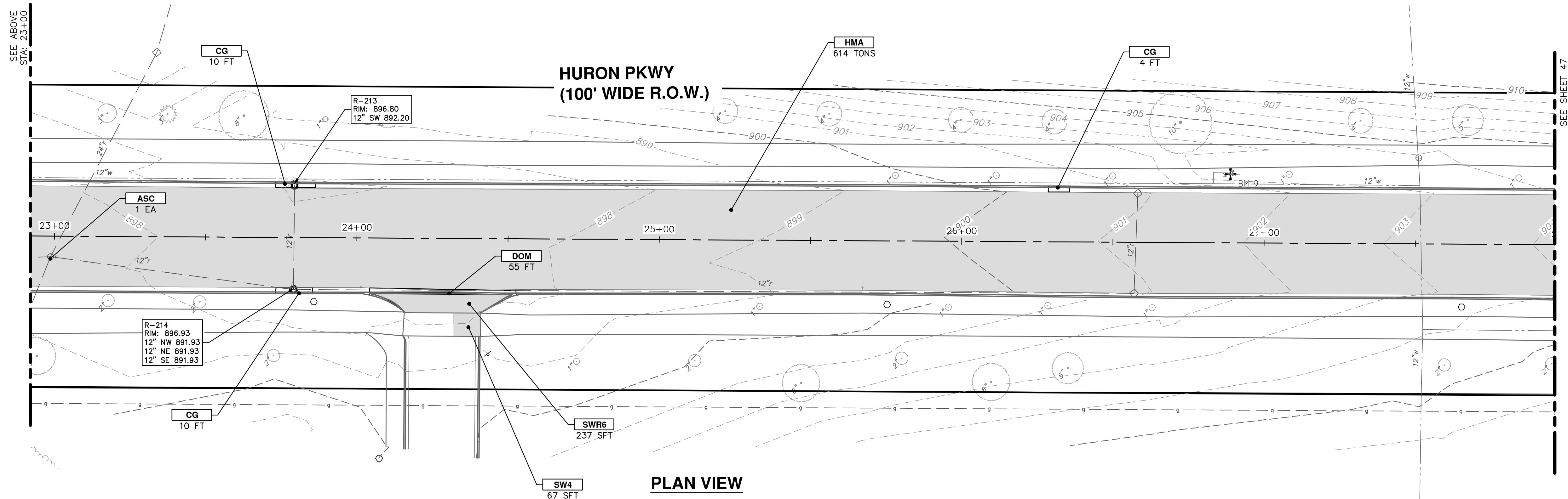
811
Know what's below. Call before you dig.

| REV. | DATE | DRAWN | CHECKED | DESCRIPTION |
|------|------------|-------|---------|----------------------|
| 3 | 04/08/2022 | BWA | CJE | BID SET |
| 2 | 03/16/2022 | BWA | CJE | 70% DESIGN PLAN |
| 1 | 02/07/2022 | BWA | CJE | 30% PRELIMINARY PLAN |

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PLAN VIEW



PLAN VIEW

| CONSTRUCTION KEY | |
|------------------|---|
| KEY | DESCRIPTION |
| HMA | SURFACE AREA FOR HMA |
| CG | CONCRETE CURB OR CURB & GUTTER, ALL TYPES |
| SW4 | 4 INCH CONCRETE SIDEWALK |
| SWR6 | 6 INCH CONCRETE RAMP, DRIVE APPROACH |
| DOM | CONCRETE TYPE M DRIVE OPENING |
| ASC | ADJUST STRUCTURE COVER |

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2022-009-46

SHEET No. 46 OF 53

GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

HURON PARKWAY - TUEBINGEN

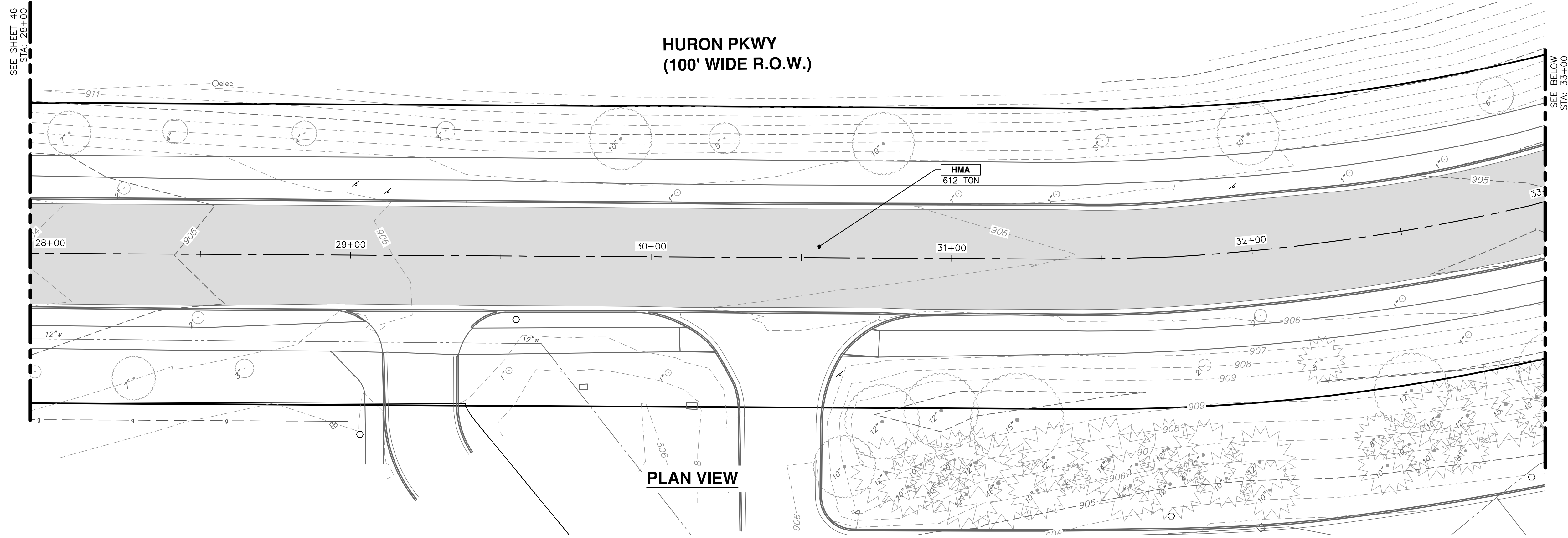
PAVING PLAN STA 18+00 TO 28+00

| | | | |
|------|----------------------|------------|-----------------|
| REV. | DESCRIPTION | DATE | DRAWN / CHECKED |
| 3 | BID SET | 04/08/2022 | BWA / CJE |
| 2 | 70% DESIGN PLAN | 03/16/2022 | BWA / CJE |
| 1 | 30% PRELIMINARY PLAN | 02/07/2022 | BWA / CJE |

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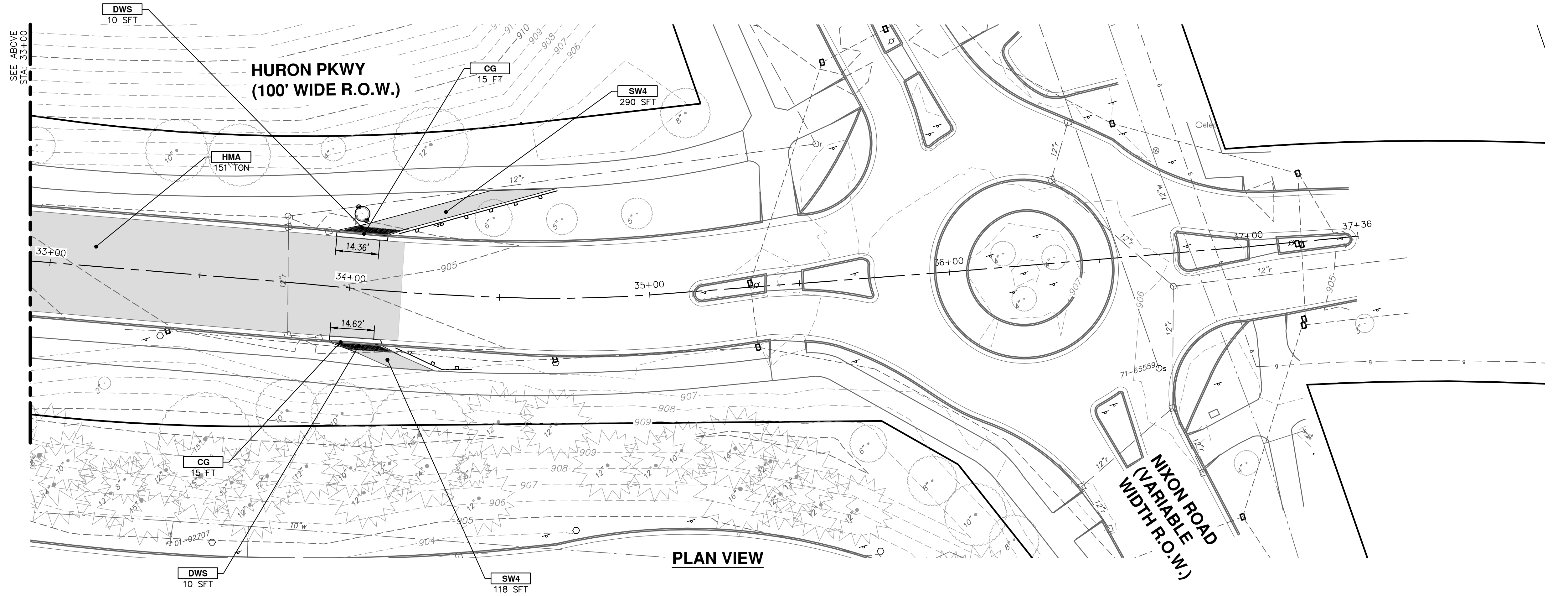
811
Know what's below.
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PLAN VIEW

| CONSTRUCTION KEY | |
|------------------|---|
| KEY | DESCRIPTION |
| HMA | SURFACE AREA FOR HMA |
| CG | CONCRETE CURB OR CURB & GUTTER, ALL TYPES |
| SW4 | 4 INCH CONCRETE SIDEWALK |
| DWS | DETECTABLE WARNING SURFACE, CAST IN PLACE |



PLAN VIEW

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

HURON PARKWAY - TUEBINGEN

PAVING PLAN STA 28+00 TO 38+00

DRAWING No. 2022-009-47

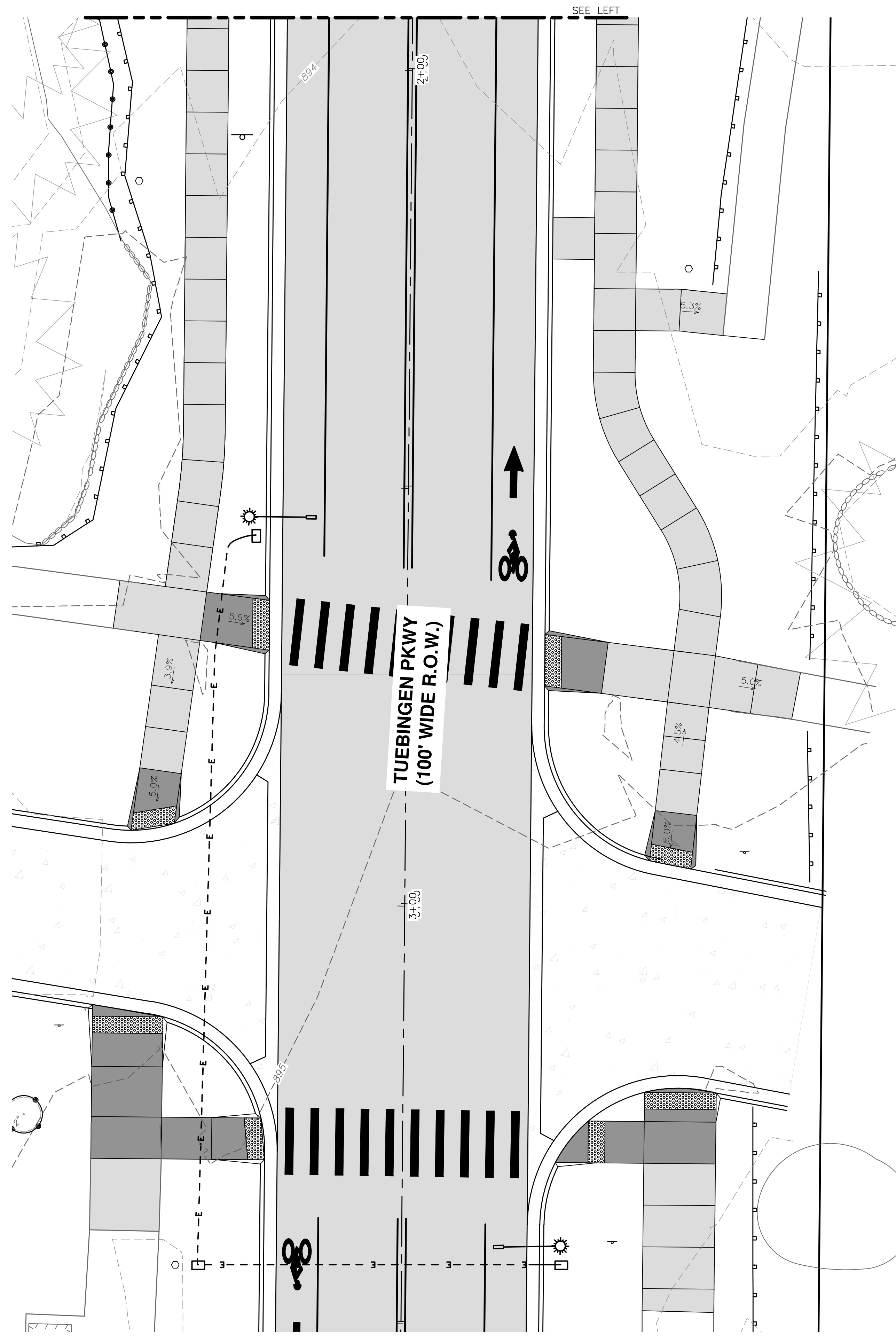
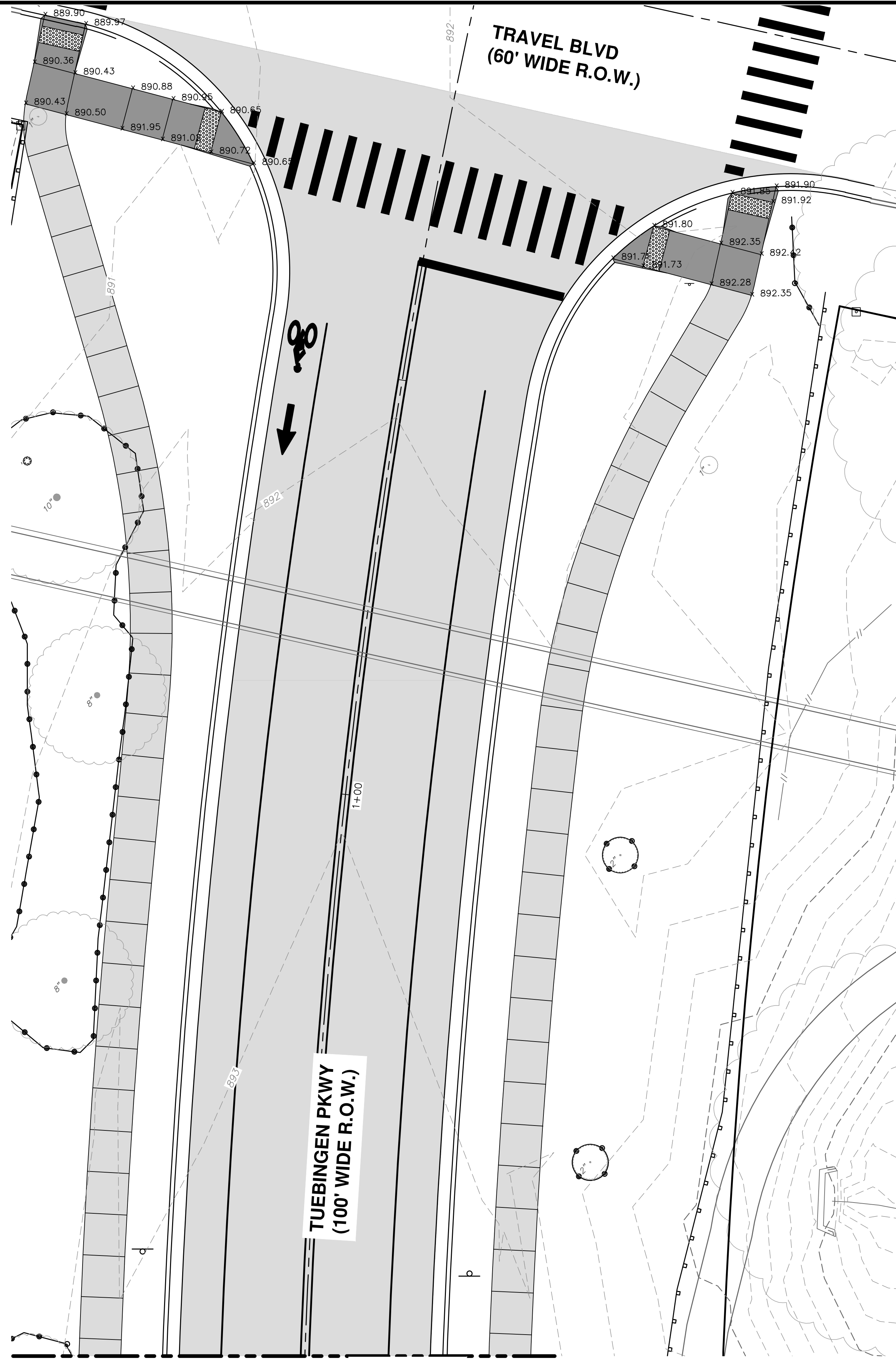
SHEET No. 47 OF 53

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

| REV. | DATE | DRAWN | CHECKED |
|------|------------|-------|---------|
| 3 | 04/08/2022 | BWA | CJE |
| 2 | 03/16/2022 | BWA | CJE |
| 1 | 02/07/2022 | BWA | CJE |

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
 SCALE PLAN: 1" = 8'
 DRAWING No. 2022-009-48

GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT
 HURON PARKWAY - TUEBINGEN
 DETAILED GRADING PLAN I

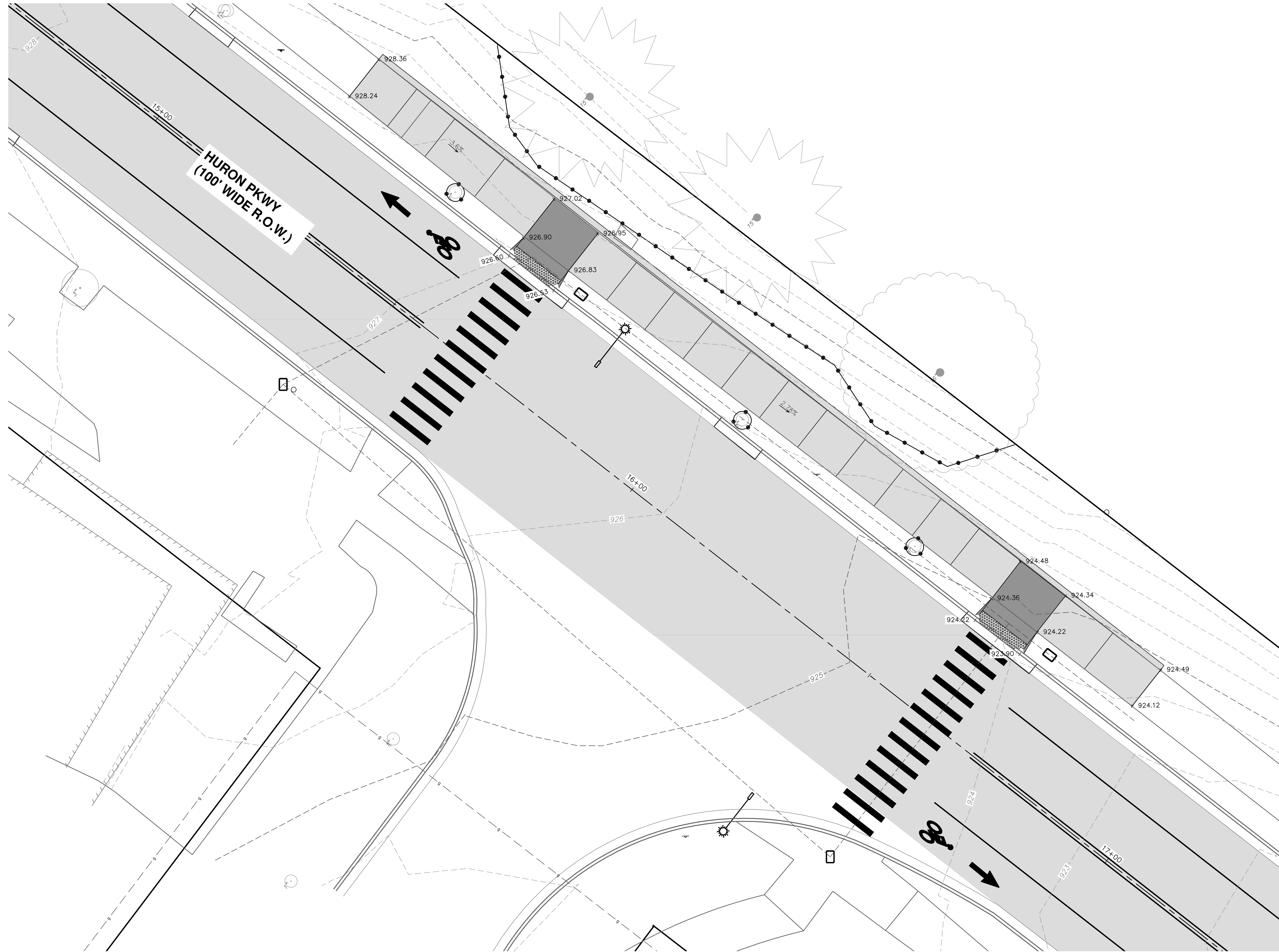


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| REV. | DATE | DRAWN | CHECKED | DESCRIPTION |
|------|------------|-------|---------|----------------------|
| 3 | 04/08/2022 | BWA | C/E | BID SET |
| 2 | 03/16/2022 | BWA | C/E | 70% DESIGN PLAN |
| 1 | 02/07/2022 | BWA | C/E | 30% PRELIMINARY PLAN |



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PLAN VIEW

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
 SCALE PLAN: 1" = 8'
 DRAWING No. 2022-009-49

GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT
 HURON PARKWAY - TUEBINGEN
 DETAILED GRADING PLAN II

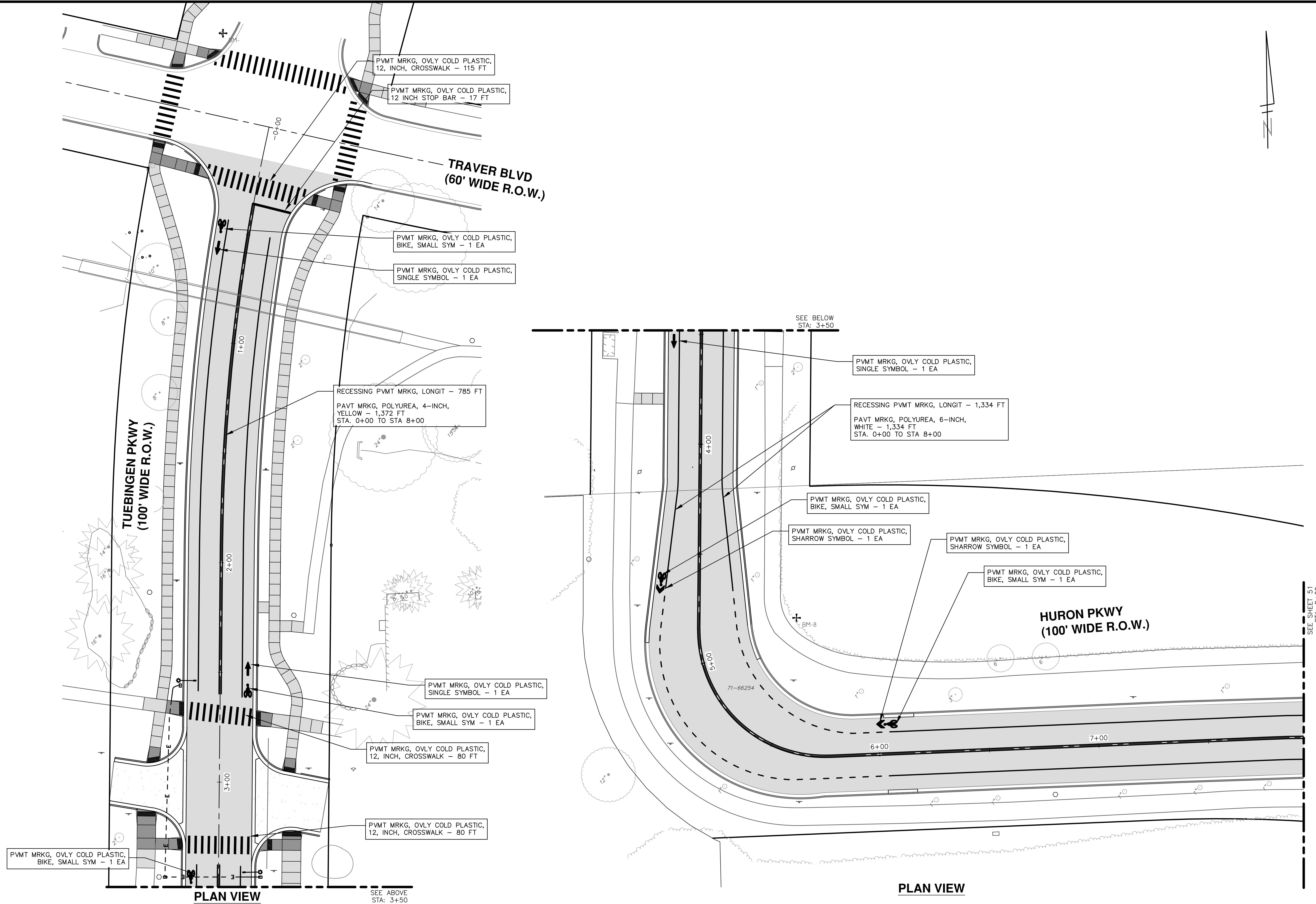


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| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|----------------------|------------|-------|---------|
| 3 | BID SET | 04/08/2022 | BWA | C/E |
| 2 | 70% DESIGN PLAN | 03/16/2022 | BWA | C/E |
| 1 | 30% PRELIMINARY PLAN | 02/07/2022 | BWA | C/E |



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PLAN VIEW

PLAN VIEW

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GEDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

HURON PARKWAY - TUEBINGEN

PAVEMENT MARKING PLAN STA 0+00 TO 8+00

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2022-008-50

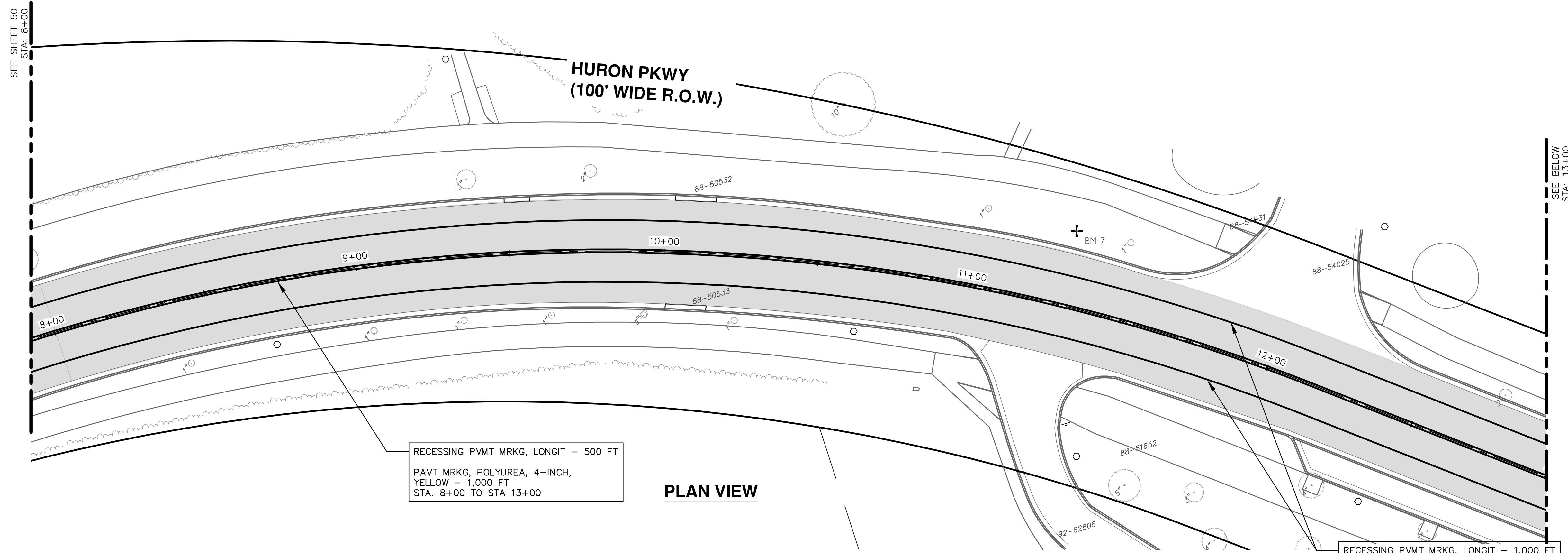
SHEET No. 50 OF 53

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| REV. | DATE | DESCRIPTION | DRAWN | CHECKED |
|------|------------|----------------------|-------|---------|
| 3 | 04/08/2022 | BID SET | BWA | C/E |
| 2 | 03/16/2022 | 70% DESIGN PLAN | BWA | C/E |
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN | BWA | C/E |

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RECESSING PVMT MRKG, LONGIT - 500 FT
PAVT MRKG, POLYUREA, 4-INCH,
YELLOW - 1,000 FT
STA. 8+00 TO STA 13+00

PLAN VIEW

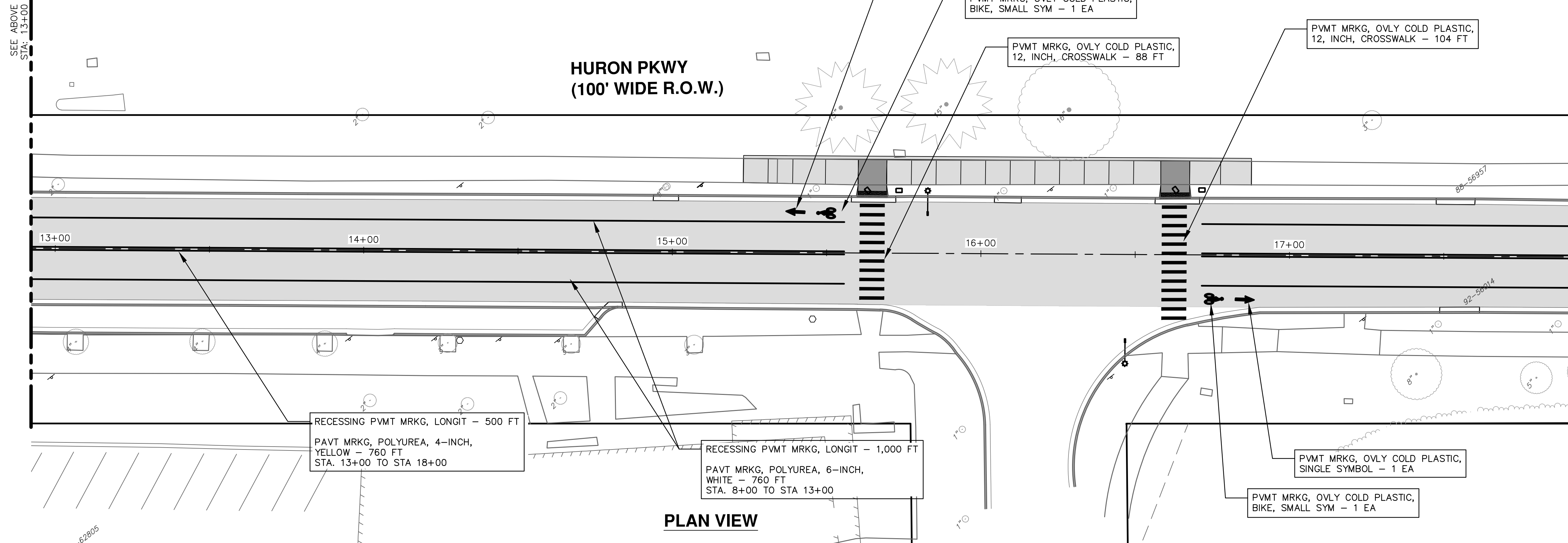
RECESSING PVMT MRKG, LONGIT - 1,000 FT
PAVT MRKG, POLYUREA, 6-INCH,
WHITE - 1,000 FT
STA. 8+00 TO STA 13+00

PVMT MRKG, OVLY COLD PLASTIC,
SINGLE SYMBOL - 1 EA

PVMT MRKG, OVLY COLD PLASTIC,
BIKE, SMALL SYM - 1 EA

PVMT MRKG, OVLY COLD PLASTIC,
12, INCH, CROSSWALK - 88 FT

PVMT MRKG, OVLY COLD PLASTIC,
12, INCH, CROSSWALK - 104 FT



RECESSING PVMT MRKG, LONGIT - 500 FT
PAVT MRKG, POLYUREA, 4-INCH,
YELLOW - 760 FT
STA. 13+00 TO STA 18+00

RECESSING PVMT MRKG, LONGIT - 1,000 FT
PAVT MRKG, POLYUREA, 6-INCH,
WHITE - 760 FT
STA. 8+00 TO STA 13+00

PLAN VIEW

PVMT MRKG, OVLY COLD PLASTIC,
SINGLE SYMBOL - 1 EA

PVMT MRKG, OVLY COLD PLASTIC,
BIKE, SMALL SYM - 1 EA

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SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2022-005-51

SHEET No. 51 OF 53

GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT

HURON PARKWAY - TUEBINGEN

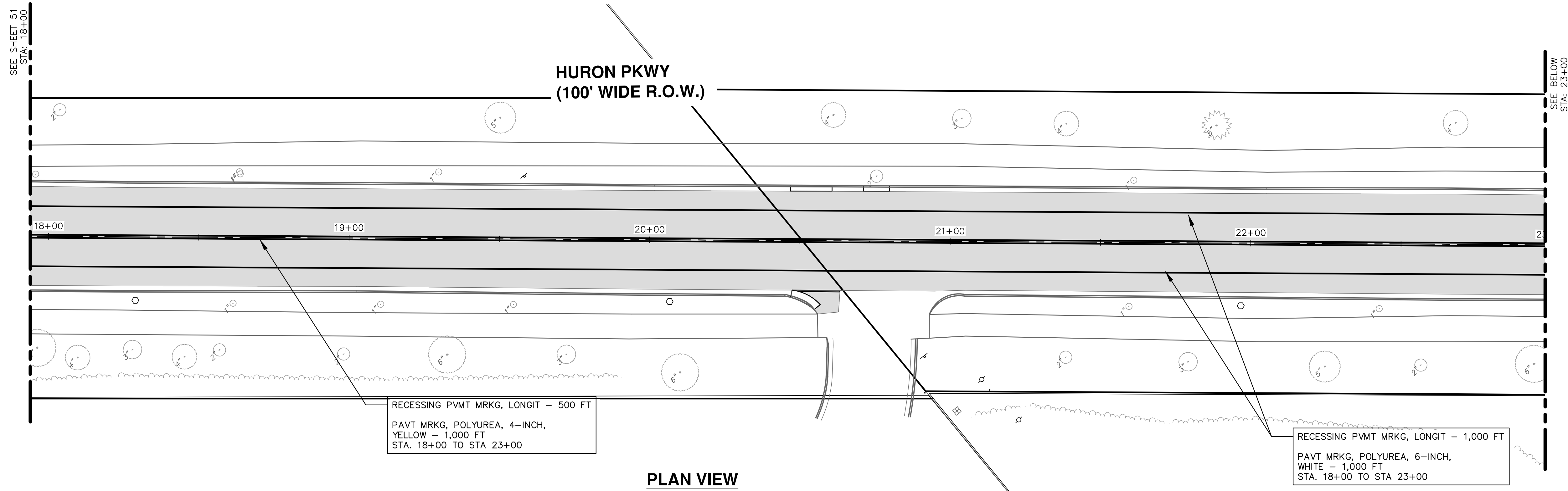
PAVEMENT MARKING PLAN STA 8+00 TO 18+00

| REV. | DATE | DESCRIPTION | CHECKED | DRAWN |
|------|------------|----------------------|---------|-------|
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN | BWA | BWA |
| 2 | 03/16/2022 | 70% DESIGN PLAN | BWA | BWA |
| 3 | 04/08/2022 | BID SET | BWA | C/E |

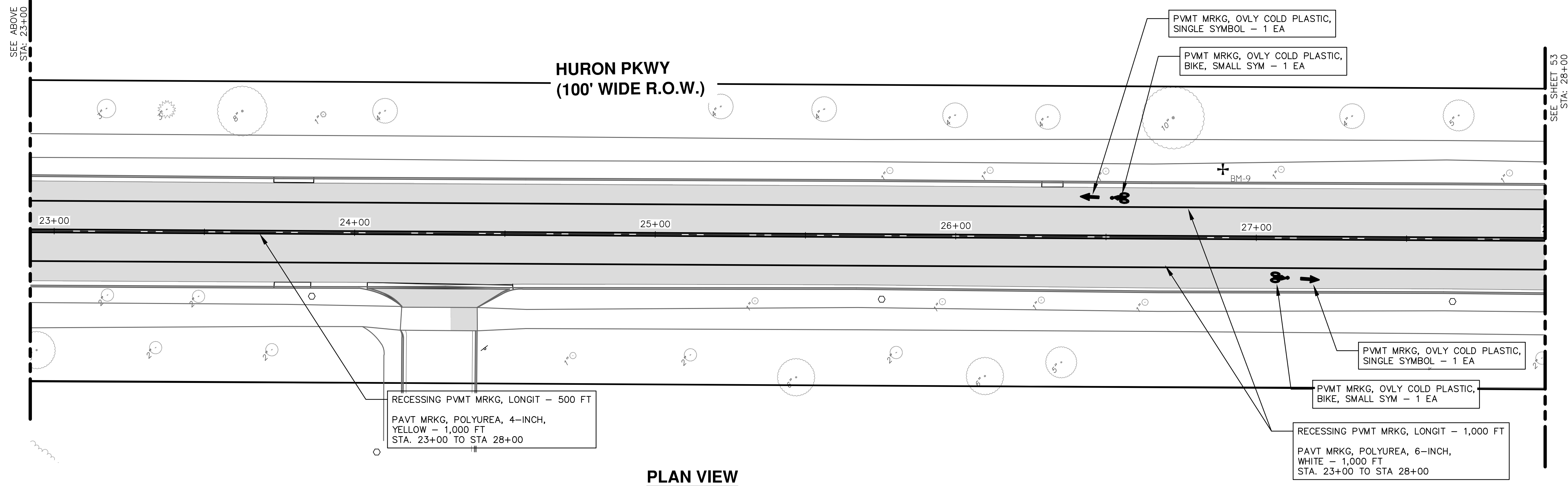
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PLAN VIEW



PLAN VIEW



| REV. | DESCRIPTION | DATE | DRAWN | CHECKED |
|------|----------------------|------------|-------|---------|
| 3 | BID SET | 04/08/2022 | BWA | CJE |
| 2 | 70% DESIGN PLAN | 03/16/2022 | BWA | CJE |
| 1 | 30% PRELIMINARY PLAN | 02/07/2022 | BWA | CJE |

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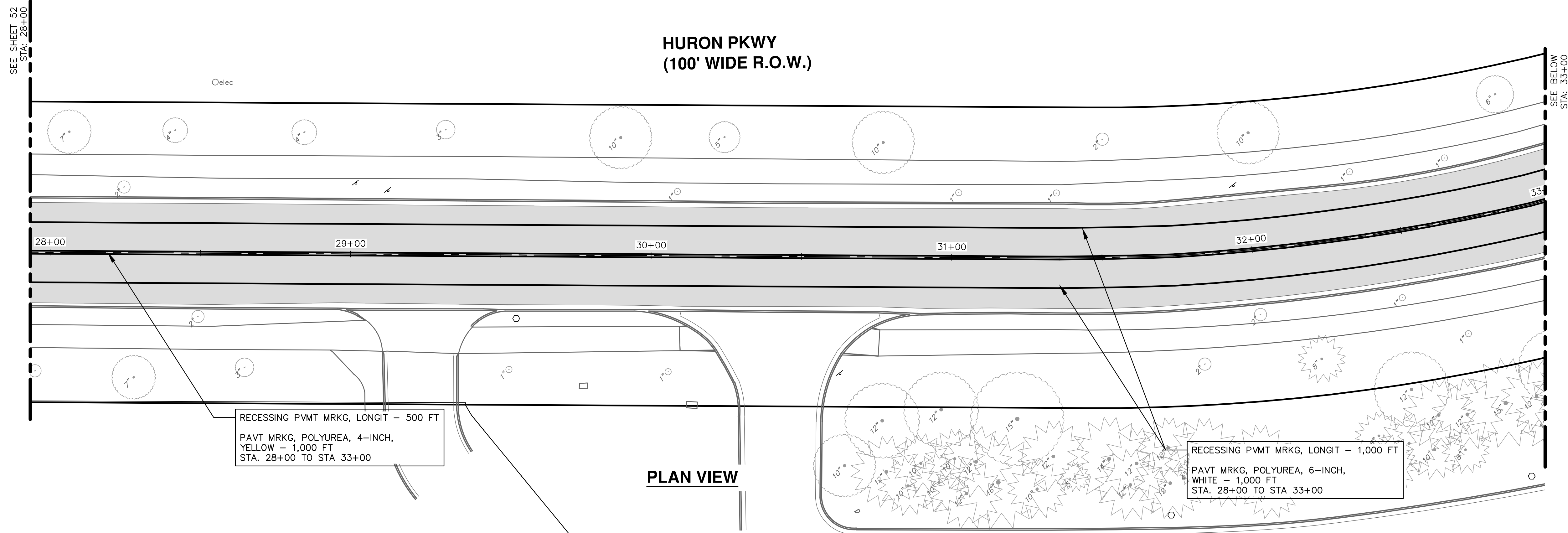


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GEDDES & HURON PARKWAY/TUEBINGEN RESURFACING PROJECT
HURON PARKWAY - TUEBINGEN
PAVEMENT MARKING PLAN STA 18+00 TO 28+00

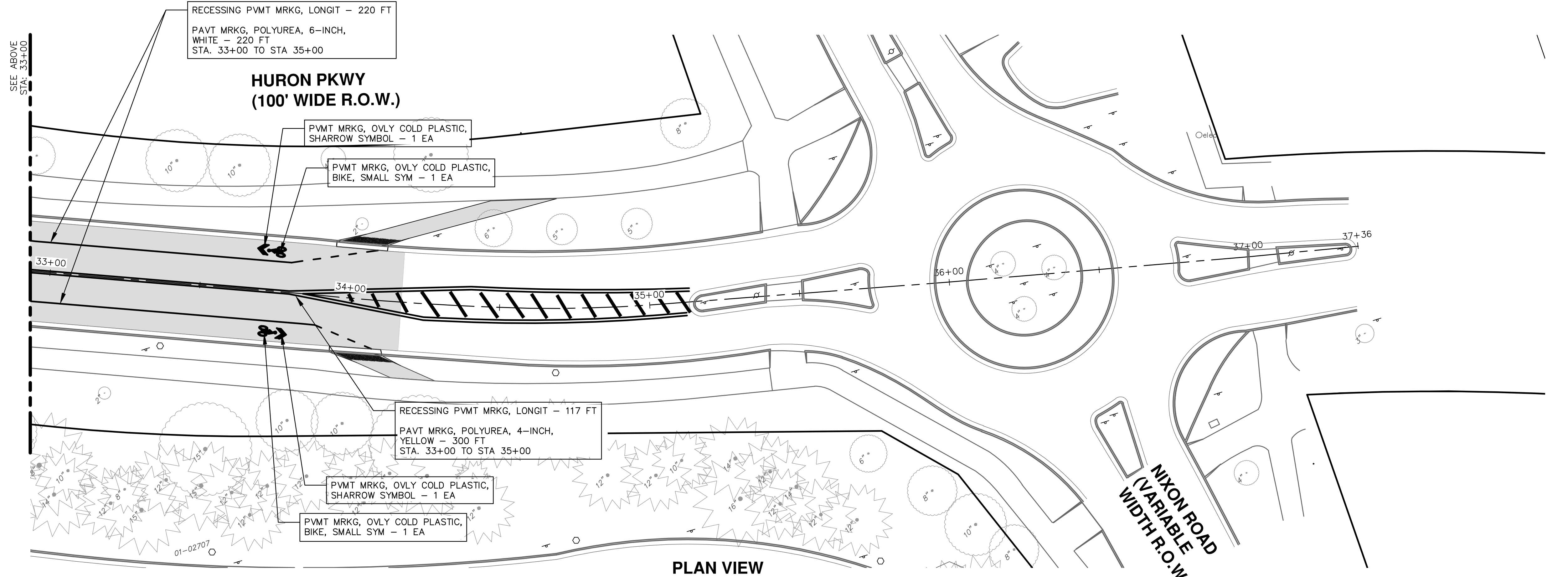
SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2022-009-52

SHEET No.

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PLAN VIEW



PLAN VIEW

NIXON ROAD
(VARIABLE
WIDTH R.O.W.)



Know what's below.
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| REV. | DATE | DESCRIPTION | CHECKED | DRAWN |
|------|------------|----------------------|---------|-------|
| 1 | 02/07/2022 | 30% PRELIMINARY PLAN | BWA | BWA |
| 2 | 03/16/2022 | 70% DESIGN PLAN | BWA | BWA |
| 3 | 04/08/2022 | BID SET | BWA | C/E |

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HURON PARKWAY - TUEBINGEN
PAVEMENT MARKING PLAN STA 28+00 TO 38+00

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'
DRAWING No. 2022-005-53