

# ADDENDUM No. 1

ITB No. 4618

## Landfill Scale and Entrance Improvements

**Bids Due: March 10, 2020 at 10:00AM (Local Time)**

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes thirty-three (33) pages.**

**Bidder is to acknowledge receipt of this Addendum No. 1, including all attachments (if any) in its Bid by so indicating on page ITB-1 of the Invitation to Bid Form. Bids submitted without acknowledgment of receipt of this addendum may be considered nonconforming.**

The following forms provided within the ITB document must be included in submitted bids:

- City of Ann Arbor Prevailing Wage Declaration of Compliance
- City of Ann Arbor Living Wage Ordinance Declaration of Compliance
- Vendor Conflict of Interest Disclosure Form
- City of Ann Arbor Non-Discrimination Ordinance Declaration of Compliance

**Bids that fail to provide these forms listed above upon bid opening will be rejected as non-responsive and will not be considered for award.**

### I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the Bid document which are outlined below are referenced to a page or Section in which they appear conspicuously. The Bidder is to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

<b><u>Section/Page(s)</u></b>	<b><u>Change</u></b>
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C-01 – E-005	As provided with ITB No. 4618 Bid Document: Bid Set Drawings (Plans)
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As updated herein:  
Revised Bid Set Drawings, C-01 – E-005

*Comment: The intent with this change is to simply replace the inaccurate ITB number, and revision date in the provided Bid Set Drawings (Plans) published with the ITB Document with the accurate Page C-01 through E-005 provided herein. In addition, the details for the ramp were updated.*

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## II. QUESTIONS AND ANSWERS

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the ITB. Bidders are directed to take note in their review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

**Question 1:**

2.1 A specifies a “fully electronic, low profile, steel deck truck scale system...”

2.1 B requires a “full scale capacity of 135 tons”

2.1 D requires a CLC of 50 tons

2.2 A requires “the scale weighbridge will consist of factory welded modules having a total longitudinal span of 80’ and platform width of 11’.”

2.2 C requires “the weighbridge shall consist of three prefabricated steel deck modules”

With these specs, our low profile scale (2.1A) that would meet the size requirement in 2.2A would not meet the requirements of 2.1B, 2.1D, 2.1G, or 2.2C. Our low-profile scale would have a 120 ton capacity, a CLC of 30 tons, would have a total of (9) 10” I-beams, and would be four modules.

However, our Titan Steel deck scale while not meeting 2.1A (Titan would have an approach height of 21 7/8” to meet the requirement of “a minimum clearance of 4” provided between the concrete floor and the bottom of the weighbridge” (2.2F) would exceed items listed in 2.1B, 2.1D, meet the size requirements of 2.2A and the requirements listed in 2.2C.

Would a scale with a taller profile be more or less important than the low-profile scale?

**Answer 1:**

The intent is providing two scales with weighbridge dimensions 80’ long by 12’ wide. Railing is required on each side of each scale. The contractor must verify the railings will fit between the scales. The profile of the scale should be what is required to meet the intended use. It can be low profile or high profile. We assume some modification of the structural supports may be required after bid award due to variations in scale dimensions by various suppliers.

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**Question 2:**

Also, after re-reading 2.1 G requires a “minimum of (12) 12” wide flange, 14 lbs. per foot, structural longitudinal beams”

If I am reading this requirement correctly, it requires 12’ of support inside of an 11’ wide scale?

If the beams run longitudinally wouldn’t they be 12” wide by the length of the panel?

**Answer 2:**

See response to Question 1.

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**Question 3:**

Are we responsible for the installation of the fiber optic conduit and handholes?

**Answer 3:**

No, The City IT Department will handle the installation of the fiber optic conduit and handholes.

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**Question 4:**

Is the City of Ann Arbor responsible for the installation of the fiber optic cable and connections?

**Answer 4:**

Yes.

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**Question 5:**

Can you verify the width of each truck scale. While looking at sheet C-10 (scale Foundation Plan) I noticed it shows 12' wide. My quote from last year show 80' x 11'.80' x 11' or 80' x 12' for the truck scales.

**Answer 5:**

See Answer to Question No. 1

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**Question 6:**

What would be the maximum weight on the truck scale?

**Answer 6:**

Truck weight is 135 tons.

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**Question 7:**

How many trucks per day?

**Answer 7:**

In the month of February 2020 there were 1184 transitions across the scale, divided by 20 working days equals on average 59 trucks per day. In the month of October 2019 there were 2193 transactions divided by 23 working days equals on average 93 trucks per day. This number is subject to increase or decrease depending on the season.

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**Question 8:**

Please clarify the scope of work required for the demolition of the existing scale system at the MRF facility. As discussed, it sounded like the scale was to be removed and the pavement was to be patched. Section 01 1100 specifies (01 1100 1.2.22 – 23) that the scale is to be removed, regrade the area to provide positive drainage, pavement replacement and complete foundation removal is required.

Please provide detailed drawings of this area in question as it relates to grading, pavement removal and pavement replacement. (no drawings were issued)

Are we to remove the existing foundation system?

What are the traffic control requirements for this area when the work is in progress?

Please provide the drawings of the existing scale installation as specified in Section 01 1100 (this information was to be provided in the Appendix section, but it is not present).

**Answer 8:**

Per specifications, "Demolish, remove and recycle existing scale after the successful operation of the new scales." Existing foundation removal is required ONLY to allow paving/patching the existing scale area (complete removal of foundation is not required).

Traffic Requirements during removal of existing scale are to maintain traffic flow to allow uninterrupted access to the MRF, the contractor will work with the City and the MRF operator.

Existing Scale drawings labeled Drawing Number: S5 – Rev. A is attached to this addendum.

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**Question 9:**

Can the area North of the proposed scale access road be regraded to provide an access drive as required to maintain site/facility access?

**Answer 9:**

The area to the north of the scale access road is a closed landfill and cannot be regraded.

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**Question 10:**

Please provide a specification section as it relates to the proposed guardrail. Also, please provide the coating requirements for the guardrail system and a connection detail (to the scale foundation system).

**Answer 10:**

See notes on Sheet C-05 for the guardrail requirements. The guardrail shall be per the scale manufacturer requirements and shall be yellow galvanized steel.

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**Question 11:**

Please provide the wage rate requirements (current Heavy wage rates).

**Answer 11:**

See General Decision Number: MI20200074 01/03/2020 attached here to.

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**Question 12:**

Can the City supply a copy of the Pre-Bid Meeting Agenda and Sign-In Sheet?

**Answer 12:**

See attached.

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**Question 13:**

When spoils are hauled off site, does the City of Ann Arbor pay the landfill's tipping fees?

**Answer 13:**

The tipping fees need to be included as part of the overall Contractor fee.

Bidders are responsible for any conclusions that they may draw from the information contained in the Addendum.

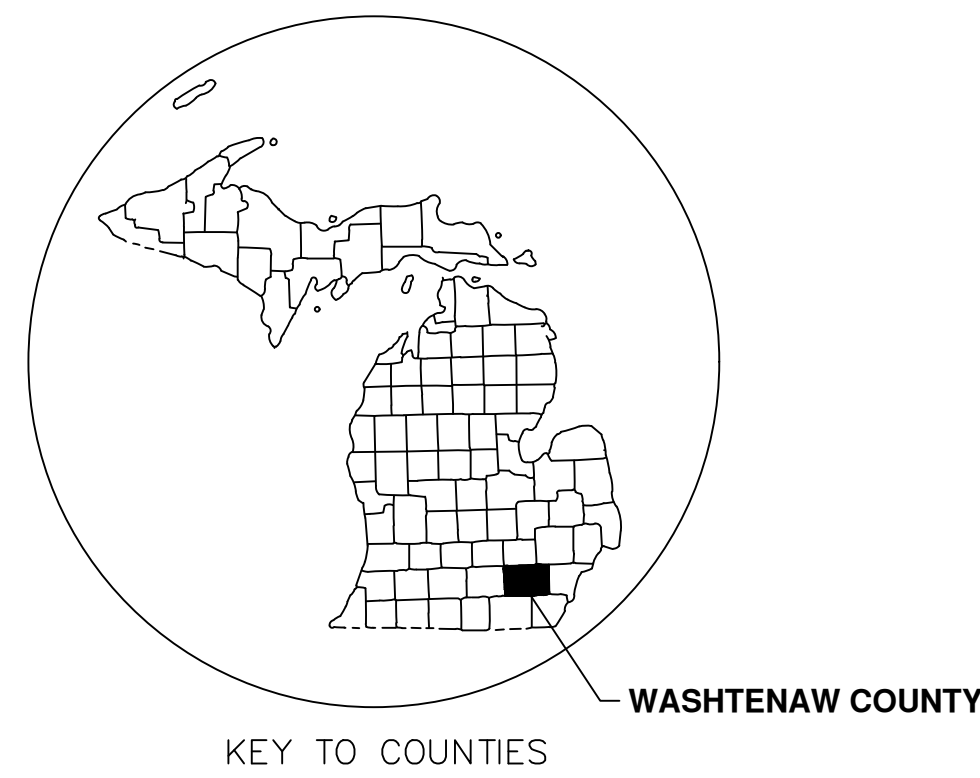
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# CITY OF ANN ARBOR

# LANDFILL SCALE AND ENTRANCE IMPROVEMENTS

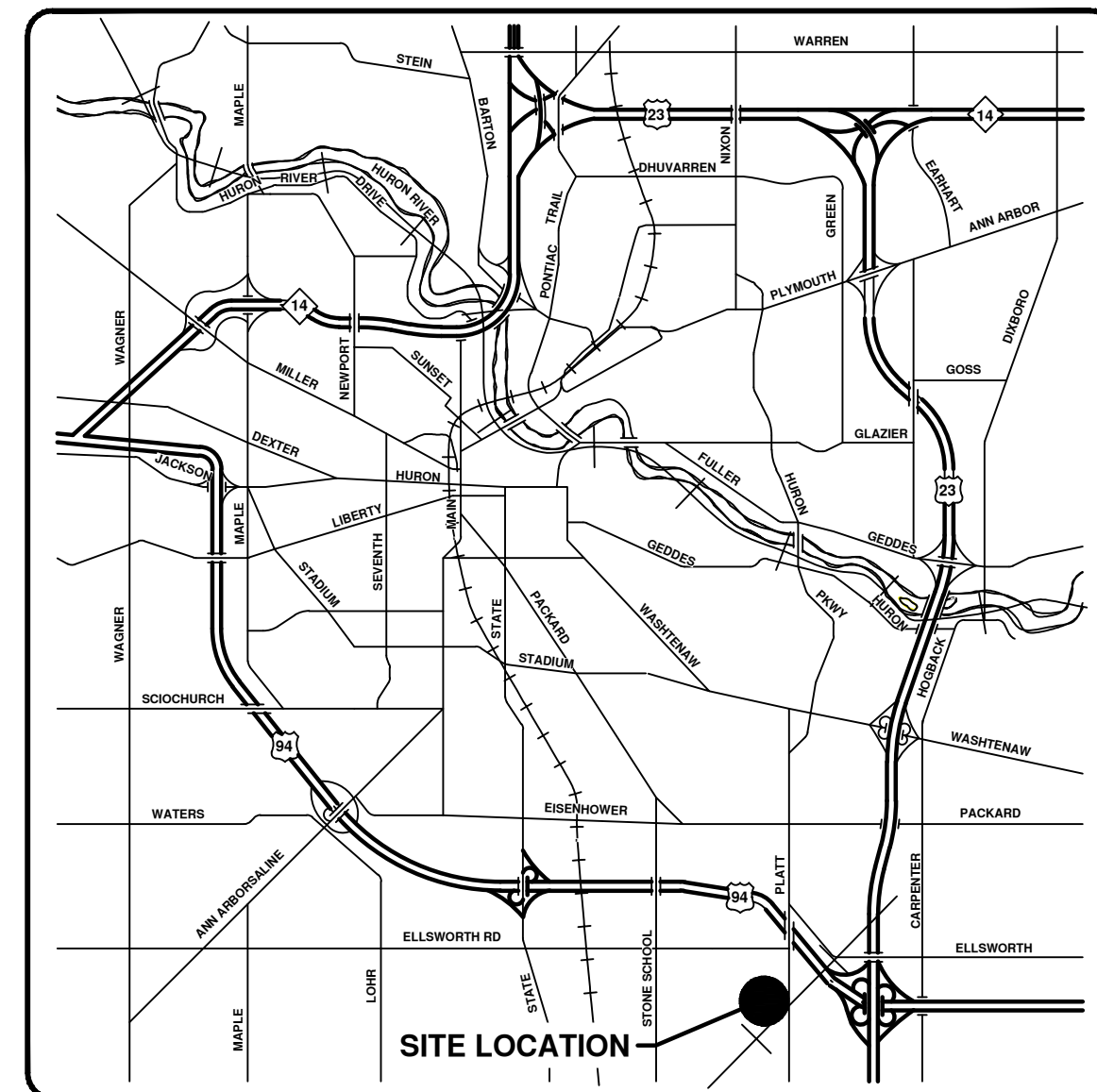
ITB No. 4618

## W.R. WHEELER SERVICE CENTER CITY OF ANN ARBOR, MICHIGAN



### DRAWINGS LEGEND

- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT
- EXISTING OVERHEAD ELECTRIC
- //— EXISTING FENCE
- EXISTING GUARD RAIL
- EXISTING GRAVEL
- EXISTING SWALE-CENTERLINE
- EXISTING ROAD-CENTERLINE
- EXISTING BRUSH LINE
- EXISTING CONTOUR-MAJOR
- EXISTING CONTOUR-MINOR
- EXISTING SLURRY WALL
- EXISTING CONCRETE DRIVEWAY REMOVAL
- EXISTING DITCH
- PROPOSED DITCH
- PROPOSED ROAD - CENTERLINE
- PROPOSED CONTOUR - MAJOR
- PROPOSED CONTOUR - MINOR
- PROPOSED PROPERTY LINE
- PROPOSED CONCRETE ROAD
- PROPOSED SILT FENCE
- ⊕ BENCH MARK
- ⊙ SOIL BORING
- ⊙ EXISTING ROCK
- △ CONTROL POINT
- ⊕ EXISTING CATCH BASIN
- ⊙ EXISTING PINE TREE
- ⊙ EXISTING TREE
- ⊙ EXISTING, STUMP



VICINITY MAP



AREA MAP

### SITE INFORMATION

THE PROJECT IS AT THE SITE OF THE CITY OF ANN ARBOR W.R. WHEELER CENTER. AT THIS SITE, THE CITY OPERATES THREE SOLID WASTE FACILITIES INCLUDING THE MATERIAL RECOVERY FACILITY (MRF), TRANSFER STATION AND COMPOST CENTER. MOST SOLID WASTE TRAFFIC ENTERS THROUGH THE PLATT ROAD ENTRANCE, AND MUST PROCEED TO THE MRF, WHERE ONE EXISTING SCALE CONSTRUCTED IN 1995 WEIGHS EACH TRUCK. TRUCKS THEN PROCEED TO THE APPROPRIATE FACILITY FOR DISPOSAL OF THE WASTE AND RETURN TO THE SCALE TO WEIGH OUT. THE OVERALL LAYOUT OF THE W.R. WHEELER CENTER IS LOCATED IN SHEET C-2. THE SCALE IS ALSO USED FOR OTHER CITY SERVICES INCLUDING WEIGHING FLEET TRUCKS FOR SALT USE AND OTHER MATERIALS. THE SITE OPERATIONS, INCLUDING EXISTING SCALE OPERATIONS, MUST CONTINUE UNINTERRUPTED DURING CONSTRUCTION. AS SHOWN ON SHEET C-2, THE CITY'S W.R. WHEELER CENTER IS PARTIALLY LOCATED WITHIN THE CITY LIMITS AND PARTIALLY WITHIN PITTSFIELD TOWNSHIP.

### SOIL INFORMATION

AT THE TEST BORING LOCATIONS, IN GENERAL, SUBSURFACE SOILS CONSIST OF TOP SOIL OR PAVEMENT UNDERLAIN BY CLAYEY SAND/SANDY CLAY SOILS TO A DEPTH RANGING FROM 10 TO 13 FEET. THESE SOILS ARE THEN UNDERLAIN BY WASTE MATERIALS. REFER TO THE PROJECT SPECIFICATIONS FOR TEST BORING LOGS.

### SHEET INDEX

#### CIVIL SHEETS

- C-01 TITLE SHEET
- C-02 OVERALL SITE PLAN
- C-03 EXISTING CONDITIONS PLAN
- C-04 DEMOLITION PLAN
- C-05 PROPOSED SITE PLAN
- C-06 PLAN AND PROFILE
- C-07 NOT USED
- C-08 SOIL EROSION AND SEDIMENTATION CONTROL PLAN
- C-09 SCALE FOUNDATION NOTES
- C-10 SCALE FOUNDATION PLAN
- C-11 SCALE FOUNDATION DETAILS
- C-12 SCALE FOUNDATION DETAILS
- C-13 ROADWAY TYPICAL SECTIONS AND DETAILS
- C-14 GENERAL DETAILS

#### ELECTRICAL SHEETS

- E-001 GENERAL ELECTRICAL INFORMATION
- E-002 ELECTRICAL SITE PLAN
- E-003 PARTIAL ELECTRICAL SITE PLAN
- E-004 ELECTRICAL DETAILS AND SCHEDULES
- E-005 ELECTRICAL DETAILS AND SCHEDULES

### PROJECT DESCRIPTION

IN GENERAL, PROJECT INCLUDES PROVIDING ALL LABOR AND MATERIALS AND ALL OTHER TASKS REQUIRED FOR THE INSTALLATION OF TWO SCALES AND ASSOCIATED COMMUNICATION SYSTEMS, RAMPS, PAVEMENT, AND OTHER WORK ITEMS AS SHOWN ON THE PLANS. THE SCOPE OF WORK ALSO INCLUDES DEMOLITION OF THE EXISTING SCALE AT THE MATERIAL RECOVERY FACILITY, DISPOSAL OF DEMOLITION MATERIALS AND SITE RESTORATION AS SHOWN ON THE PLANS.

### GENERAL INFORMATION

OWNER: CITY OF ANN ARBOR  
301 E. HURON STREET  
ANN ARBOR, MICHIGAN, 48107

PROJECT LOCATION: W.R. WHEELER CENTER  
4251 STONE SCHOOL ROAD  
ANN ARBOR, MICHIGAN, 48108

ENGINEER: THE MANNIK & SMITH GROUP, INC.  
2365 HAGGERTY ROAD S.  
CANTON, MICHIGAN, 48188



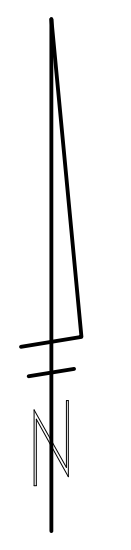
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04	REVISED PLANS	03/03/2020	TJS	TEW	
03	ISSUE FOR BID	04/03/2019	TJS	TEW	
02	CITY PLANNING REVIEW	01/10/2019	OSH	TEW	
01	PRELIMINARY SITE PLANS OWNER REVIEW	12/07/2018	OSH	TEW	
					DRAWN
					CHECKED

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
LANDFILL SCALE AND ENTRANCE IMPROVEMENTS  
SCALE PLAN: NTS  
DRAWING No. ANNA0035-01  
TITTLE SHEET

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**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**LANDFILL SCALE AND ENTRANCE IMPROVEMENTS**

SCALE PLAN: 1" = 200'

DRAWING No. ANNA0035-02

SHEET No. C-02

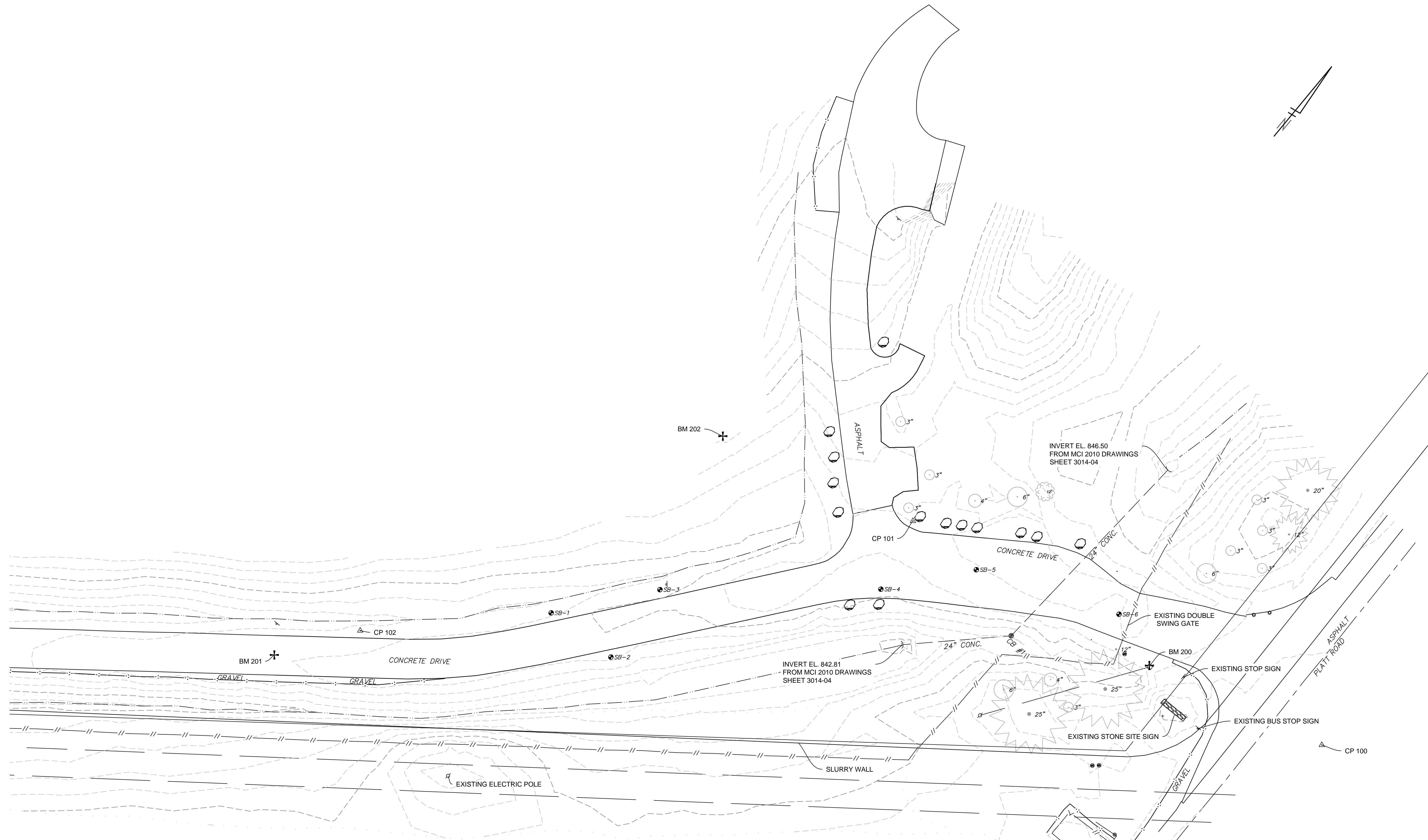
**OVERALL SITE PLAN**

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	PRELIMINARY SITE PLANS OWNER REVIEW	12/07/2018	TEW	TEW
02	CITY PLANNING REVIEW	01/10/2019	TEW	TEW
03	ISSUE FOR BID	04/03/2019	TJS	TEW

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**CP 100**  
SET CAPPED REBAR  
NORTHING = 265369.26  
EASTING = 13304030.92  
WITNESSES:  
- WEST 20.15 FEET TO ASPHALT EDGE OF PLATT ROAD.  
- SOUTH 29.60 FEET TO POWER POLE.  
- NORTHEASTERLY 64.30 FEET TO METAL GATE POST.  
- EAST 2.00 FEET TO WESTERLY EDGE OF ASPHALT PATH.

**CONTROL POINTS**

**CP 101**  
SET CAPPED REBAR  
NORTHING = 265313.82  
EASTING = 13303743.10  
WITNESSES:  
- SOUTH 4.50 FEET TO EDGE OF CONCRETE DRIVEWAY.  
- NORTHEASTERLY 40.85 FEET TO THE CENTER OF A 4 INCH TREE.  
- NORTHWESTERLY 9.62 FEET TO THE CENTER OF A 3 INCH TREE.  
- NORTHWESTERLY 31.70 FEET TO THE CENTER OF A 3 INCH TREE.

**CP 102**  
SET CAPPED REBAR  
NORTHING = 265039.08  
EASTING = 13303519.39  
WITNESSES:  
- SOUTHEAST 4.50 FEET TO THE NORTHWESTERLY EDGE OF CONCRETE DRIVEWAY.  
- SOUTHWESTERLY 53.20 FEET TO A SIGN POST.

**BENCH MARKS**

**MICHIGAN STATE PLANE COORDINATES, SOUTH ZONE, INTERNATIONAL FEET, CITY OF ANN ARBOR DATUM. ELEVATIONS WERE DETERMINED FROM CITY OF ANN ARBOR BENCHMARK #1026.**

**BM 200**  
ELEVATION = 853.06  
FOUND SPIKE IN NORTH FACE OF POWER POLE, 10 FEET SOUTH OF SOUTH EDGE OF ENTRANCE DRIVE TO WHEELER SERVICE CENTER AND 70 FEET WEST OF THE CENTERLINE OF PLATT ROAD.

**BM 201**  
ELEVATION = 848.94  
SET MAG NAIL NEAR CENTERLINE OF DRIVEWAY 700 FEET WEST OF THE CENTERLINE OF PLATT ROAD.

**BM 202**  
ELEVATION = 857.09  
SET CHISELED 'X' ON TOP OF CAP FOR VENT PIPE, 100 FEET NORTH OF THE CENTERLINE OF DRIVEWAY AND 300 FEET WEST OF THE CENTERLINE OF PLATT ROAD.

**EXISTING UTILITIES**

CATCH BASIN #1 (CB #1)  
PRECAST WALLS  
RIM = 847.98  
24" RCP S.W  
INVERT ELEV. = 843.08'  
24" RCP N  
INVERT ELEV. = 843.18'  
5 FOOT SUMP

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**LANDFILL SCALE AND ENTRANCE IMPROVEMENTS**

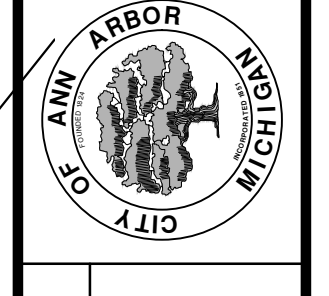
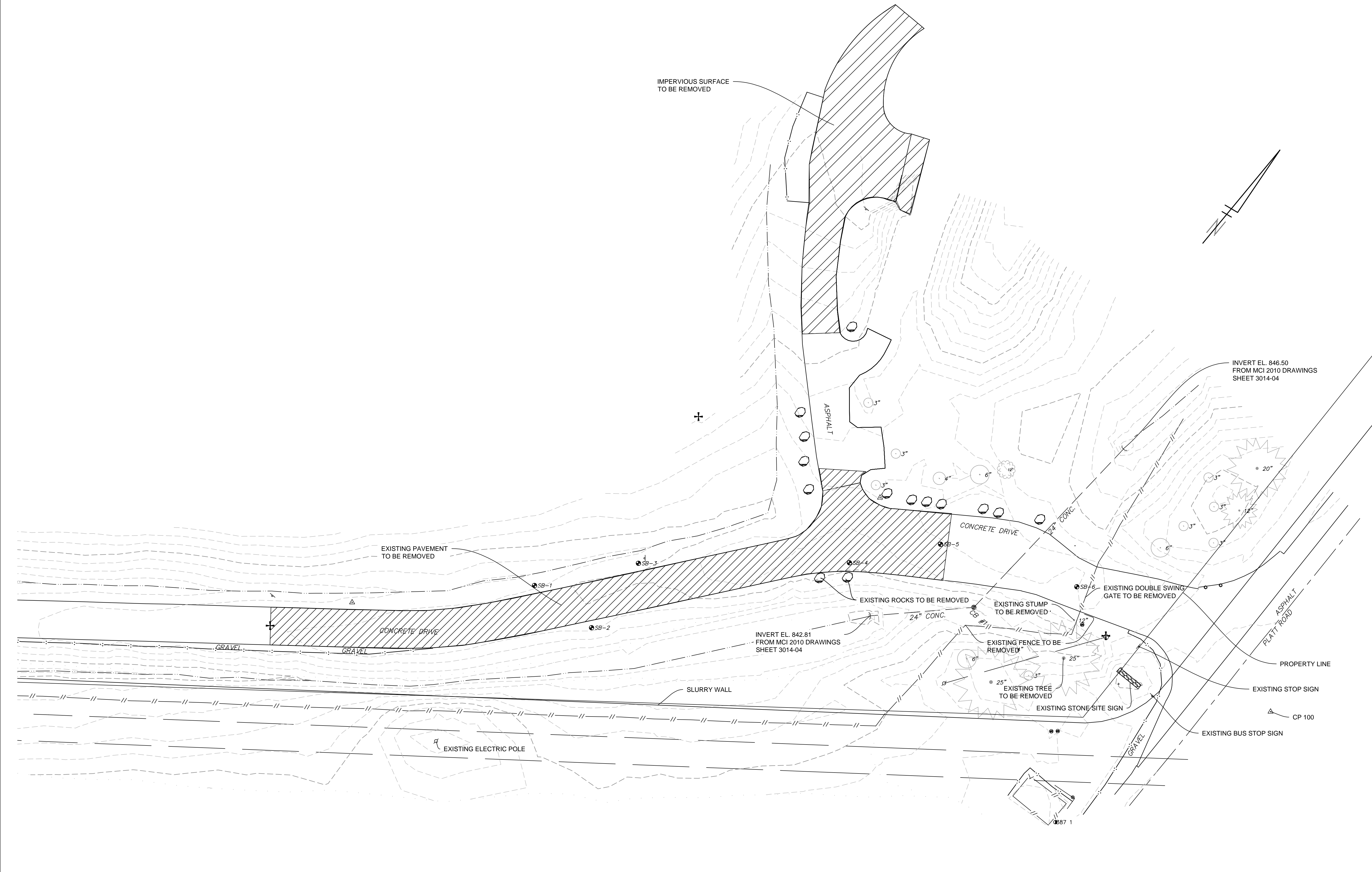
SCALE PLAN: 1" = 30'  
DRAWING No. ANNA0035-03  
SHEET No. C-03

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03	ISSUE FOR BID	04/03/2019	TJS	TEW
02	CITY PLANNING REVIEW	01/10/2019	OSH	TEW
01	PRELIMINARY SITE PLANS OWNER REVIEW	12/07/2018	OSH	TEW



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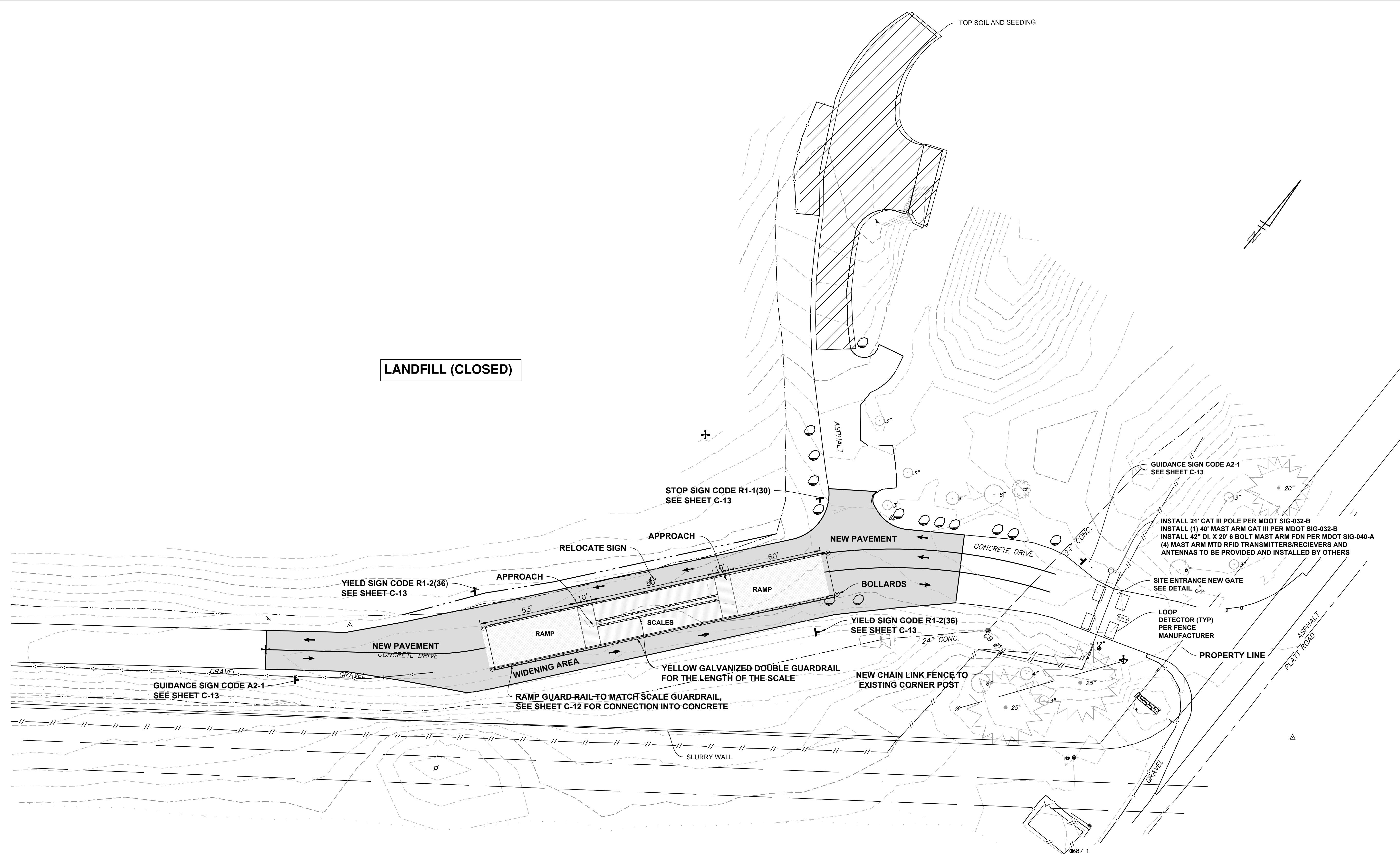
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	ISSUE FOR BID	04/03/2019	TJS	TEW
02	CITY PLANNING REVIEW	01/10/2019	QSH	TEW
01	PRELIMINARY SITE PLANS OWNER REVIEW	12/07/2018	QSH	TEW





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**LANDFILL (CLOSED)**

**LEGEND**

	NEW CONCRETE PAVEMENT
	TOP SOIL AND SEEDING

**IMPERVIOUS AREA**

PROPOSED ADDITIONAL	EXISTING REMOVED
8700 SF	22100 SF
<b>NET RESULT = 13,400 SF DECREASE IN IMPERVIOUS AREA</b>	

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**LANDFILL SCALE AND ENTRANCE IMPROVEMENTS**

SCALE PLAN: 1" = 30'

DRAWING No. ANNA0035-05

SHEET No. **C-05**

PROPOSED SITE PLAN

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04	REVISED PLANS	03/03/2020	TJS	TEW
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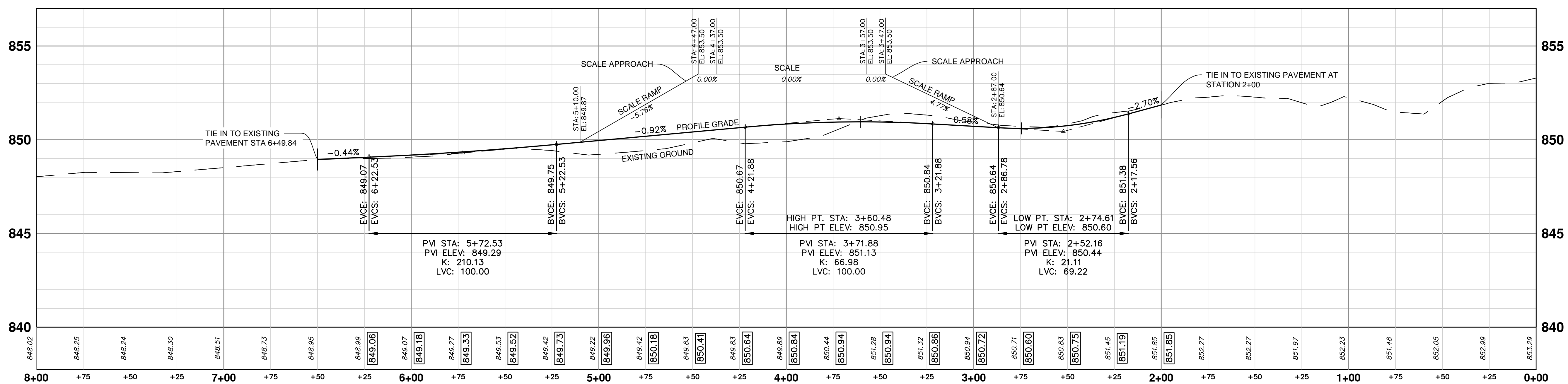
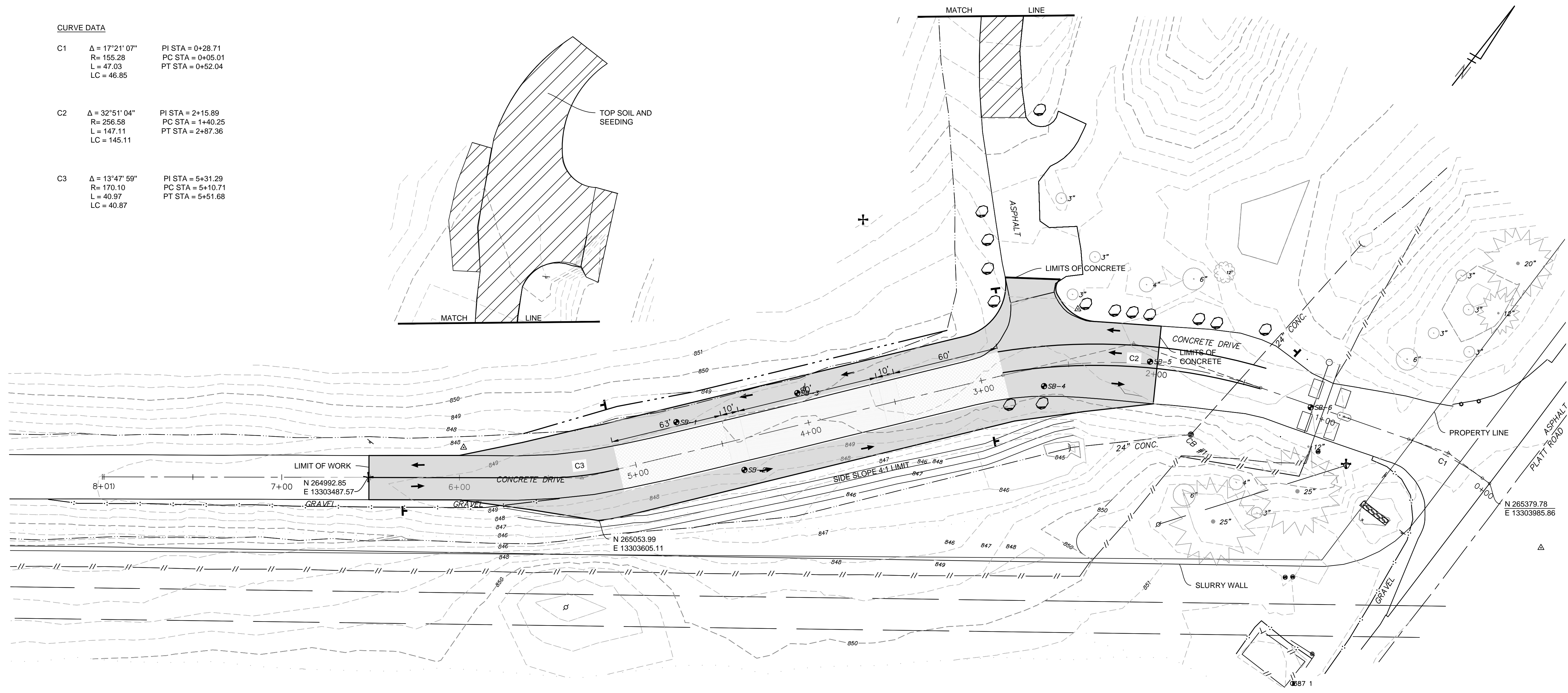
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CITY OF ANN ARBOR MICHIGAN

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**CURVE DATA**

C1	$\Delta = 17^{\circ}21'07''$ R = 155.28 L = 47.03 LC = 46.85	PI STA = 0+28.71 PC STA = 0+05.01 PT STA = 0+52.04
C2	$\Delta = 32^{\circ}51'04''$ R = 256.58 L = 147.11 LC = 145.11	PI STA = 2+15.89 PC STA = 1+40.25 PT STA = 2+87.36
C3	$\Delta = 13^{\circ}47'59''$ R = 170.10 L = 40.97 LC = 40.87	PI STA = 5+31.29 PC STA = 5+10.71 PT STA = 5+51.68



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01	12/07/2018	PRELIMINARY SITE PLANS OWNER REVIEW

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**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**LANDFILL SCALE AND ENTRANCE IMPROVEMENTS**

SCALE PLAN: 1" = 30'  
PROFILE: 1" = 10'

**PLAN AND PROFILE**

DRAWING No.  
**ANNA0035-06**

SHEET No.  
**C-06**

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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 734-794-6430. EXT. 42592

1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER.
2. ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, CITY ORDINANCE CHAPTER 63, CITY OF ANN ARBOR STANDARDS DIVISION VII, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. DAILY, OR AFTER ANY STORM EVENT, INSPECTIONS IF EROSION CONTROL MEASURES SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE ENGINEER TO DETERMINE THE EFFECTIVENESS IF 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. FINAL RESTORATION OF ALL DISTURBED AREAS, INCLUDING SEED, FERTILIZER AND EROSION CONTROL MULCH BLANKET AND/OR SOD, SHALL BE PERFORMED BY THE CONTRACTOR PRIOR TO FINAL COMPLETION.
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. PRIOR DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE IF 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 GRANTED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION OF PROJECT WILL BE GRANTED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED.
11. THE CONTRACTOR SHALL NOT GRADE ONTO 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.
13. THE CONTRACTOR SHALL TAKE MEASURES TO REDUCE AND CONTROL EMISSIONS AND NOISE FROM CONSTRUCTION EQUIPMENT AND VEHICLES USED ON-SITE AND DURING TRANSPORTING TO/FROM SITE.

**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.

**SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS:**

1. INSTALL SILT FENCE, TREE PROTECTION FENCING, SAFETY/CONSTRUCTION FENCING, MUD MATS, CULVERT SEDIMENT TRAPS, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
2. REMOVE TREES MARKED FOR REMOVAL, REMOVE DOWNED TREES WITHIN WORK ZONES AND STAGING AREAS, CLEAR BRUSH WITHIN CLEARING LIMITS AND TRIM BRANCHES. TREE AND BRANCH TRIMMING SHALL BE APPROVED BY THE ENGINEER PRIOR TO BEGINNING WORK.
3. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE WITH SILT FENCE AS REQUIRED. ADDITIONAL MEASURES MAY BE REQUIRED TO MINIMIZE EROSION. STOCKPILE TOPSOIL IN AREAS APPROVED BY THE ENGINEER. CONTRACTOR SHALL SALVAGE AND RE-USE EXISTING TOPSOIL TO THE GREATEST EXTENT POSSIBLE.

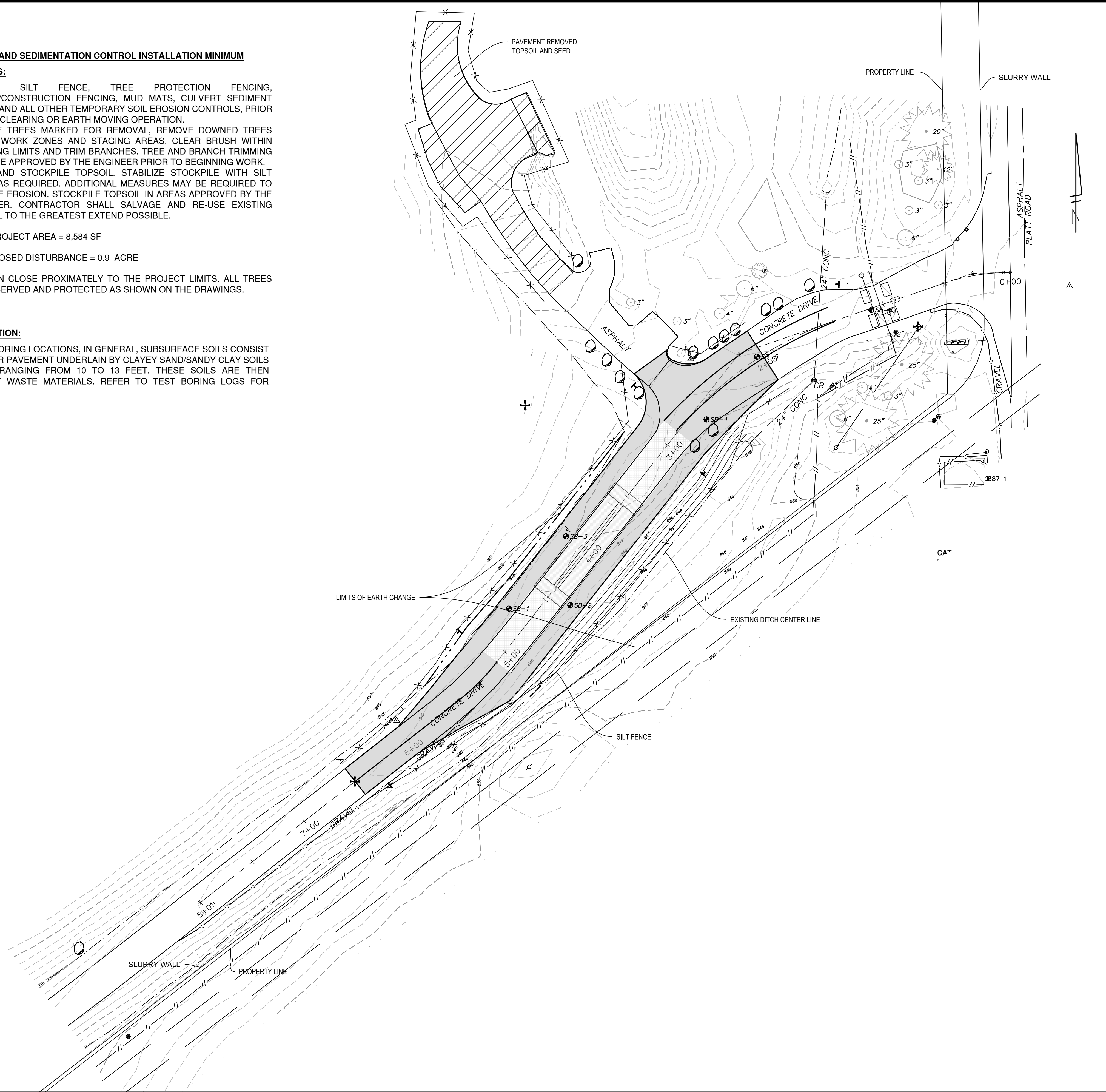
IMPERVIOUS PROJECT AREA = 8,584 SF

AREA OF PROPOSED DISTURBANCE = 0.9 ACRES

TREES EXIST IN CLOSE PROXIMITY TO THE PROJECT LIMITS. ALL TREES SHALL BE PRESERVED AND PROTECTED AS SHOWN ON THE DRAWINGS.

**SOIL INFORMATION:**

AT THE TEST BORING LOCATIONS, IN GENERAL, SUBSURFACE SOILS CONSIST OF TOP SOIL OR PAVEMENT UNDERLAIN BY CLAYEY SAND/SANDY CLAY SOILS TO A DEPTH RANGING FROM 10 TO 13 FEET. THESE SOILS ARE THEN UNDERLAIN BY WASTE MATERIALS. REFER TO TEST BORING LOGS FOR DETAILS.



**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**LANDFILL SCALE AND ENTRANCE IMPROVEMENTS**

SCALE PLAN: 1" = 40'    PROFILE: 1" = 4'

DRAWING No. ANNA0035-08

**SOIL EROSION AND SEDIMENTATION CONTROL PLAN**

SHEET No. **C-08**

03	ISSUE FOR BID	04/03/2019	TJS	QSH	QSH	QSH	QSH	QSH	QSH
02	CITY PLANNING REVIEW	01/10/2019							
01	PRELIMINARY SITE PLANS OWNER REVIEW	12/07/2018							
	REV.	DATE	DRAWN	CHECKED					

**CITY OF ANN ARBOR PUBLIC SERVICES**  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-1667  
 734-794-4410  
 www.aagov.org

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

**GENERAL STRUCTURAL NOTES**

1. THE STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS EXIST BETWEEN THE DRAWINGS, SPECIFICATIONS AND THE STRUCTURAL NOTES, THE STRICTEST PROVISION SHALL GOVERN.
2. THE STRUCTURAL DRAWINGS FORM AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. COORDINATE THE STRUCTURAL DRAWINGS WITH THE REQUIREMENTS SHOWN IN THE OTHER COMPONENTS OF THE CONTRACT DOCUMENTS.
3. TYPICAL DETAILS AND OTHER SECTIONS/DETAILS APPLY TO CONDITIONS THAT ARE SIMILAR TO THE CONDITIONS DESCRIBED IN THE SECTIONS/DETAILS, EVEN IF THEY ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS SEQUENCES AND PROCEDURES OF CONSTRUCTION.
5. CONSTRUCTION SHALL COMPLY FULLY WITH THE APPLICABLE PROVISIONS OF OSHA AND THE LOCAL GOVERNING CODES. CURRENT EDITION, AND ALL REQUIREMENTS SPECIFIED IN THE CODES SHALL BE ADHERED TO AS IF THEY WERE CALLED FOR OR SHOWN ON THE DRAWINGS. THIS SHALL NOT BE CONSTRUED TO MEAN THAT REQUIREMENTS SET FORTH ON THE DRAWING MAY BE MODIFIED BECAUSE THEY ARE MORE STRINGENT THAN THE CODE REQUIREMENTS OR BECAUSE THEY ARE NOT SPECIFICALLY REQUIRED BY CODE.
6. GOVERNING BUILDING CODE - MICHIGAN (INTERNATIONAL) BUILDING CODE 2015. STANDARDS LISTED IN THE STRUCTURAL NOTE SECTIONS TO FOLLOW REFER TO THE VERSION AND EFFECTIVE DATE IDENTIFIED IN THE REFERENCED STANDARDS CHAPTER IN THE GOVERNING BUILDING CODE.
7. WORK CONSTRUCTED PER THESE DRAWINGS SHALL BE INSPECTED BY AN INDEPENDENT TESTING AGENCY RETAINED TO ENSURE COMPLIANCE WITH THE REQUIREMENTS SHOWN ON THE DRAWINGS. SPECIAL INSPECTIONS REQUIRED BY THE GOVERNING BUILDING CODE, LOCAL BUILDING DEPARTMENT AND THE CONTRACT DOCUMENTS SHALL BE PERFORMED BY A QUALIFIED SPECIAL INSPECTOR. PROJECT SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE OR REPLACE INSPECTION.

**SHOP DRAWINGS**

1. SUBMIT SHOP DRAWINGS FOR REVIEW AS INDICATED IN MATERIAL SECTION OF GENERAL STRUCTURAL NOTES.
2. ALLOW IN THE SCHEDULE - DETAILING, FABRICATION AND ERECTION - A MINIMUM OF 10 WORKING DAYS FOR REVIEW OF EACH SHOP DRAWING SUBMITTAL BY THE STRUCTURAL ENGINEER. SUBMIT SHOP DRAWINGS IN REASONABLE QUANTITIES AT REASONABLE INTERVALS. THE 10 WORKING DAYS STATED HEREIN, WILL BE IN ADDITION TO THE REVIEW TIME REQUIRED BY OTHER PROJECT TEAM MEMBERS. SUBMIT A SHOP DRAWING SUBMITTAL SCHEDULE PRIOR TO THE FIRST SUBMITTAL.
3. REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO CHECK THE SHOP DRAWINGS PRIOR TO SUBMITTAL. ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS NOT CONFORMING TO THE CONSTRUCTION DOCUMENTS ARE THE RESPONSIBILITY OF THE SHOP DRAWING PREPARER.
4. SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE CONTRACT DOCUMENTS. CONTRACTOR SHALL ENSURE THAT CONSTRUCTION IS IN ACCORDANCE WITH THE LATEST CONTRACT DOCUMENTS. SHOP DRAWINGS REVIEW IS ONLY FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. REVIEW OF THE SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT GUARANTEE THAT THE SHOP DRAWINGS ARE CORRECT NOR INFER THAT THE SHOP DRAWINGS SUPERSEDE THE CONTRACT DOCUMENTS.
5. CONTRACTOR SHALL PROVIDE TWO HARD COPIES OF SHOP DRAWING SETS FOR REVIEW - ONE FOR RECORD AND ONE TO BE RETURNED WITH REVIEW COMMENTS. CONTRACTOR SHALL PROVIDE A SET OF APPROVED SHOP DRAWINGS BEARING THE REVIEW STAMP OF THE STRUCTURAL ENGINEER, TO THE LOCAL BUILDING DEPARTMENT AND TO THE PROJECT SITE.
6. NOTES ON SUBMITTED SHOP DRAWINGS FOR WORK "BY OTHERS" CANNOT BE RESPONSIBLY APPROVED BY STRUCTURAL ENGINEER. CONTRACTOR SHALL COORDINATE RESPONSIBILITY FOR MATERIALS, CONNECTIONS, ETC. PRIOR TO SHOP DRAWING SUBMITTAL TO THE STRUCTURAL ENGINEER.
7. CONTRACTOR SHALL VERIFY ALL RELEVANT DIMENSIONS AND ELEVATIONS FOR EQUIPMENT INSTALLATIONS AGAINST PURCHASED MANUFACTURER'S CERTIFIED EQUIPMENT DRAWINGS. CONTRACTOR SHALL COORDINATE DIMENSIONS THAT DEPEND UPON SPECIFIC EQUIPMENT, SUCH AS ELEVATOR OPENINGS, MECHANICAL EQUIPMENT SUPPORTS, ETC. PRIOR TO SUBMITTAL. SUCH DIMENSIONS SHALL BE PROVIDED ON THE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. CONTRACTOR'S FAILURE TO PROVIDE SUCH DIMENSIONS ON SUBMITTED SHOP DRAWINGS WILL RESULT IN SHOP DRAWING RETURN WITHOUT REVIEW.

**EXISTING CONDITIONS**

1. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
2. CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND ELEVATION OF EXISTING UTILITIES, SEWERS, DRAINS, ETC. IN CONSTRUCTION AREAS BEFORE PROCEEDING WITH THE WORK. ALL DISCREPANCIES SHALL BE DOCUMENTED AND REPORTED TO THE CIVIL/STRUCTURAL ENGINEER AND OWNER'S REPRESENTATIVE FOR RESOLUTION.
3. SHOULD UNCHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL CONSULT THE CIVIL/STRUCTURAL ENGINEER AND OWNER'S REPRESENTATIVE FOR RESOLUTION.
4. CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION OF EXISTING UTILITIES AND/OR EQUIPMENT DURING EXECUTION OF WORK, SATISFYING THE OWNER'S REQUIREMENTS.
5. CONTRACTOR SHALL COORDINATE WORK WITH THE OWNER'S PERSONNEL TO AVOID ANY INTERFERENCE IN THEIR OPERATIONS.
6. REFER TO SHORING AND BRACING NOTES FOR ADDITIONAL REQUIREMENTS.

**SHORING AND BRACING**

1. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING OF EXISTING CONSTRUCTION, NEW CONSTRUCTION AND UNDERGROUND UTILITIES AS FOLLOWS:
  - A. WHERE SHOWN OR NOTED ON THE DRAWINGS.
  - B. WHERE EXISTING CONSTRUCTION IS TO BE ALTERED OR DISTURBED UNTIL PERMANENT SUPPORT IS IN PLACE.
  - C. WHERE EXISTING CONSTRUCTION IS NOT UNDERGOING ALTERATION AND IS TO REMAIN UNDISTURBED BUT IS DISTURBED AS A RESULT OF THE WORK OF THIS CONTRACT.
  - D. AS REQUIRED FOR SAFE ERECTION, INSTALLATION OF NEW CONSTRUCTION, EQUIPMENT, ETC.
  - E. WHEN NEEDED FOR CONTRACTOR'S "MEANS AND METHODS" OF CONSTRUCTION, AND OTHER SAFETY RELATED ISSUES.

2. SHORING AND BRACING SHOWN ON THE DRAWINGS IS CONCEPTUAL. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS, SHORING AND BRACING CALCULATIONS, METHODS OF INSTALLATION, TRANSFER OF LOADS THROUGH TO FINAL LOAD SUPPORT, AND WORK SEQUENCE PHASING WITH NEW CONSTRUCTION.
3. SHORING AND BRACING SHALL BE PERFORMED BY A CONTRACTOR WITH MINIMUM 5 YEARS DEMONSTRATED EXPERIENCE IN SIMILAR SIZE AND SCOPE OF SHORING AND BRACING PROJECTS.
4. CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS SEALED AND SIGNED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER SHOWING COMPLETE DESIGN INCLUDING TEMPORARY CONDITIONS, FINAL CONDITIONS AND SEQUENCE OF WORK.
5. DURING THE SHORING AND BRACING OPERATIONS, CONTRACTOR SHALL:
  - a. KEEP THE EXISTING AND NEW CONSTRUCTION IN A SAFE CONDITION.
  - b. MONITOR EXISTING AND NEW CONSTRUCTION TO DETECT ANY SIGNS OF DISTRESS OR DEFORMATION.
  - c. TAKE IMMEDIATE STEPS TO PREVENT DISTRESS, DEFORMATION OR DAMAGE.
6. CONTRACTOR SHALL CONTINUOUSLY MONITOR THE SHORING AND BRACING SYSTEMS. CONTRACTOR SHALL REVIEW AND ASCERTAIN THAT ALL FIELD CONNECTIONS ARE COMPLETED ACCORDING TO THE CONTRACTOR'S DESIGN AND ISSUE APPROVAL FOR INSPECTION OF THE WORK BY THE TESTING AGENCY.
7. AFTER COMPLETION OF SHORING AND BRACING AND COMPLETION OF WORK REQUIRING SHORING AND BRACING, CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE EXISTING AND NEW CONSTRUCTION, WITHOUT ANY COST TO THE OWNER, AND TO THE SATISFACTION OF THE OWNER AND ARCHITECT/STRUCTURAL ENGINEER.

**FOOTINGS AND FOUNDATIONS**

1. CONTRACTOR SHALL VERIFY ALL CONDITIONS, INCLUDING UNDERGROUND UTILITIES AND FIELD MEASUREMENTS AT JOB SITE AND REPORT ANY DISCREPANCIES TO OWNER'S REPRESENTATIVE.
2. PROVIDE NECESSARY SHEETING, SHORING, BRACING, ETC. AS REQUIRED DURING EXCAVATIONS TO PROTECT SIDES OF EXCAVATIONS.
3. COMPLY FULLY WITH REQUIREMENTS OF OSHA AND OTHER REGULATORY AGENCIES FOR SAFETY PROVISIONS.
4. BOTTOM OF FOOTING ELEVATIONS NOTED ON PLAN ARE MINIMUM ELEVATIONS. IN ALL CASES FOOTINGS ARE TO BEAR ON UNDISTURBED NATURAL SOILS OR ENGINEERED FILL HAVING A MINIMUM NET ALLOWABLE BEARING CAPACITY OF 2000 PSF.
5. SIDES OF FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING. FOUNDATIONS POURED AGAINST THE EARTH REQUIRED THE FOLLOWING PRECAUTIONS: SLOPE SIDES OF EXCAVATIONS AS APPROVED BY GEOTECHNICAL ENGINEER AND CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT.
6. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL UNLESS OTHERWISE NOTED.
7. NO FOOTINGS OR SLABS SHALL BE PLACED ON OR AGAINST SUB-GRADE CONTAINING FREE WATER, FROST OR ICE. SHOULD WATER OR FROST, HOWEVER SLIGHT, ENTER A FOOTING EXCAVATION AFTER SUB-GRADE APPROVAL, THE SUB-GRADE SHALL BE RE-INSPECTED BY THE GEOTECHNICAL ENGINEER/TESTING LABORATORY AFTER REMOVAL OF WATER OR FROST.
8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUB-GRADE BEFORE AND AFTER PLACING OF CONCRETE UNTIL THE FULL BUILDING ENCLOSURE IS COMPLETED AND HEATED.
9. EXCAVATED MATERIAL SHALL BE LEGALLY DISPOSED OFF THE OWNER'S PROPERTY OR STORED AT THE SITE OR USED FOR BACKFILLING OPERATIONS AS REQUIRED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND PROJECT SPECIFICATION REQUIREMENTS.
10. CONTRACTOR SHALL FURNISH ALL REQUIRED DE-WATERING EQUIPMENT TO MAINTAIN A DRY EXCAVATION UNTIL BACKFILL IS COMPLETE.
11. WHERE NEW FOOTINGS ARE ADJACENT OR ABUT EXISTING FOUNDATIONS, CAREFULLY HAND EXCAVATE AND DETERMINE BOTTOM OF EXISTING FOUNDATION. IF DIFFERENT THAN ANTICIPATED, ADJUST NEW FOUNDATIONS TO MATCH EXISTING. IN NO CASE SHALL THE NEW FOOTING BE LOWER THAN THE EXISTING WITHOUT PROTECTION AGAINST UNDERMINING SUCH AS UNDERPINNING OR SHORING.
12. FOUNDATION BEARING SOILS SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER. THE TESTING SHALL INCLUDE, BUT NOT BE LIMITED TO, IDENTIFICATION OF SOILS AT AND BELOW THE FOUNDATION BEARING LEVEL, AND THE ALLOWABLE BEARING CAPACITY OF THESE SOILS.
13. A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT SHALL INSPECT THE CONDITION AND ASSURE THE ADEQUACY OF ALL SUBGRADES, FILLS, BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS AND WALLS. HE SHALL SUBMIT REPORTS TO THE ARCHITECT/STRUCTURAL ENGINEER DESCRIBING HIS INVESTIGATIONS, INCLUDING ANY NON-CONFORMING WORK.
14. THE DESIGN OF FOUNDATIONS, RETAINING WALLS, AND REINFORCED PAVING IS BASED ON THE CRITERIA ESTABLISHED IN THE GEOTECHNICAL REPORT. CONSIDERATIONS RELATED TO GROUND WATER CONDITIONS AND CONTROL, DRAINAGE, SITE PREPARATIONS, EARTHWORK OPERATIONS AND WORK ADJACENT TO THE EXISTING SITE. THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE REPORT ARE PART OF CONTRACT REQUIREMENTS.

**BACKFILLING**

1. WHERE BACKFILL IS TO BE PLACED ON BOTH SIDES OF FOUNDATION WALLS, PROVIDE A BALANCED BACKFILL AGAINST FOUNDATION WALLS TO ELIMINATE LATERAL LOAD EFFECTS, OR PROVIDE NECESSARY TEMPORARY LATERAL SUPPORT TO THE TOP OF THE WALL UNTIL PERMANENT SUPPORT IS INSTALLED.
2. BACKFILL MATERIAL SHALL CONSIST OF CLEAN, WELL GRADE GRANULAR SOILS, FREE OF ORGANIC MATERIAL, SILT AND CLAY.
3. BACKFILL MATERIAL SHALL BE COMPACTED TO 98% OF MAXIMUM STANDARD PROCTOR DRY DENSITY, AS DETERMINED BY THE STANDARD PROCTOR METHOD (ASTM D698), IN LIFTS NOT EXCEEDING 8 INCHES.

**CAST-IN-PLACE CONCRETE**


1. CONCRETE STRUCTURAL FRAMING HAS BEEN DESIGNED BY THE ULTIMATE STRENGTH METHOD PER ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
2. CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE OF BUILDINGS", AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" EXCEPT AS MODIFIED BY STRUCTURAL REQUIREMENTS NOTED ON THE DRAWINGS.

3. ALL CONCRETE WORK SHALL CONFORM TO ACI 201.2 R, "GUIDE TO DURABLE CONCRETE".
4. FOR ALL CONCRETE FOUNDATION WALLS AND CONCRETE FOOTINGS EXPOSED TO AND IN CONTACT WITH EARTH, CEMENT SHALL CONFORM TO ASTM C150 "SPECIFICATION FOR PORTLAND CEMENT" TYPE V.
5. FOR CONCRETE NOT OTHERWISE NOTED, CEMENT SHALL CONFORM TO ASTM C150 "SPECIFICATION FOR PORTLAND CEMENT" TYPE I OR III.
6. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C330 "SPECIFICATION FOR CONCRETE AGGREGATES", AND ASTM C330 "SPECIFICATION FOR LIGHT WEIGHT AGGREGATES FOR STRUCTURAL CONCRETE".
7. REINFORCING SHALL CONFORM TO ASTM A-615 GRADE 60, UNLESS NOTED OTHERWISE.
8. ALL REINFORCING SHALL BE EPOXY COATED. EPOXY COATED REINFORCING BARS SHALL CONFORM TO ASTM 775.
9. REINFORCEMENT SHALL BE FABRICATED AND ERECTED ACCORDING TO THE ACI STANDARDS: "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT", ACI 315 AND "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES", ACI 315R.
10. WELDED WIRE FABRIC SHALL BE FURNISHED IN FLAT SHEETS (ROLLS NOT PERMITTED) AND SHALL CONFORM TO ASTM A-185 AND HAVE A MINIMUM SIDE AND END LAP OF 8 INCHES.
11. WELDING OF REINFORCING STEEL IS PROHIBITED UNLESS SPECIFICALLY DETAILED. WELDING WHERE DETAILED SHALL CONFORM TO AWS D1.4 SPECIFICATION.
12. A COPY OF ACI SP-15 "FIELD REFERENCE MANUAL", ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE", WITH SELECTED ACI AND ASTM REFERENCES SHALL BE KEPT IN THE CONTRACTOR'S FIELD OFFICE.
13. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH AS FOLLOWS:

FOOTINGS AND FOUNDATION WALLS:	4500 PSI
RETAINING WALLS:	4500 PSI
OTHER CONCRETE:	4000 PSI

14. A MAXIMUM WATER CEMENT RATIO OF 0.45 SHALL BE USED FOR ALL CONCRETE EXPOSED TO AND IN CONTACT WITH EARTH, UNLESS NOTED OTHERWISE.
15. EXTERIOR CONCRETE, AND INTERIOR CONCRETE SUBJECTED TO FREEZE/THAW CYCLES, SALT, ETC., INCLUDING WALLS, SHALL BE AIR-ENTRAINED 6% +/- 1%.
16. CONCRETE SHALL BE NORMAL WEIGHT, UNLESS INDICATED OTHERWISE. LIGHT WEIGHT CONCRETE, WHEN USED FOR SUPPORTED SLABS SHALL BE SAND LIGHT-WEIGHT WITH A CONCRETE UNIT WEIGHT NOT EXCEEDING 115 POUNDS PER CUBIC FOOT (PCF).
17. CONTRACTOR SHALL SUBMIT THE CONCRETE MIX DESIGN(S) FOR REVIEW BY THE STRUCTURAL ENGINEER. PRO PORTION MIX DESIGNS AND PROVIDE PROOF OF MIX DESIGN STRENGTH AS DEFINED IN ACI 301. THE SUBMITTAL SHALL INCLUDE CEMENT TYPE AND SOURCE, CEMENT CUBE STRENGTH, AGGREGATE GRADATIONS, WATER TESTS, ADMIXTURE CATALOG INFORMATION AND CYLINDER STRENGTH TEST RESULTS FROM 30 TESTS, ON SPECIMENS WITH IDENTICAL MIX DESIGN, FOR EACH CONCRETE MIX, OR OTHER PROOF OF STRENGTH PER ACI 301.
18. THE APPROVED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING AGENCY IN ACCORDANCE WITH FULL COMPLIANCE. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S RESPONSIBILITY. USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.
19. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN BY THE TESTING AGENCY IN ACCORDANCE WITH PROJECT SPECIFICATION REQUIREMENTS OR ACI 301.
20. CONTRACTOR SHALL PREPARE AND SUBMIT REINFORCEMENT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL CLEARLY SHOW REINFORCEMENT LENGTHS AND BENDS, LOCATIONS OF BARS, METHODS OF SUPPORT, DETAILS OF PLACEMENT AND PLACEMENT COORDINATION WITH FORMWORK, EMBEDMENTS, CONCRETE VIBRATION AND CONSTRUCTION JOINTS. THE DRAWINGS SHALL ALSO INDICATE OPENINGS, SLEEVES, CURBS AND CONCRETE DIMENSIONS IN ACCORDANCE WITH ACI 315. PROVIDE, AT MINIMUM WALL, COLUMN AND BEAM ELEVATIONS; WALL, COLUMN AND BEAM SECTIONS, MATERIAL SCHEDULES, BAR LAP SCHEDULES AND LOCATIONS.
21. CONTRACTOR SHALL TIE REINFORCING STEEL SECURELY IN PLACE PRIOR TO PLACING CONCRETE AND PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCING WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. INSERTING DOWELS INTO WET CONCRETE IS NOT PERMITTED.
22. CONTRACTOR SHALL PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE; SPLICE ONLY AS SHOWN OR APPROVED; STAGGER SPLICES WHERE POSSIBLE; USE SPLICE LENGTHS AS NOTED. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH TENSION SPLICES, UNLESS NOTED OTHERWISE.
23. HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS WITH THE MINIMUM LAP PER ACI 318 UNLESS DETAILED OR NOTED OTHERWISE. CORNER BARS SHALL BE PROVIDED AT CHANGES IN WALL DIRECTION (HOWEVER SMALL) AND SHALL BE OF THE SAME SIZE AND SPACING AS THE HORIZONTAL STEEL. EACH CORNER BAR LEG TO PROVIDE LAP SPLICE PER ACI 318 UNLESS DETAILED OR NOTED OTHERWISE. E XTEND HORIZONTAL WALL REINFORCING THROUGH PIERS.
24. HOOKED BARS SHALL BE STANDARD 90 DEGREE HOOKS PER ACI UNLESS NOTED OTHERWISE ON THE DRAWINGS.
25. MINIMUM LAP SPLICE SHALL BE CLASS B PER ACI 318. LOCATION OF LAP SPLICES SHALL BE AS INDICATED ON CONSTRUCTION DOCUMENTS AND/OR AS SHOWN ON THE APPROVED REINFORCING STEEL SHOP DRAWINGS.
26. APPROVED REBAR COUPLERS MAY BE USED TO AID PLACEMENT OF DOWELS THROUGH FORMS. MECHANICAL SPLICES SHALL DEVELOP 125% OF THE TENSILE STRENGTH OF THE REBAR.
27. REINFORCING STEEL SHALL NOT BE CUT, BENT OR STRAIGHTENED IN THE FIELD UNLESS APPROVED BY THE STRUCTURAL ENGINEER OR AS INDICATED ON THE DRAWINGS.
28. REINFORCING STEEL SHALL BE PLACED WITH THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE:
  1. CONCRETE CAST AGAINST EARTH (NOT FORMED): 3"
  2. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER: 2"
  3. IN ALL CASES, CLEARANCE BETWEEN BARS SHALL NOT BE LESS THAN THE BAR DIAMETER OR 1/4" MAXIMUM NOMINAL SIZE OF COARSE AGGREGATES WHICHEVER IS GREATER.

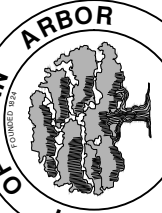
30. TIE EMBEDS SECURELY IN PLACE PRIOR TO PLACING CONCRETE.
31. DO NOT PLACE PIPES OR DUCTS EXCEEDING ONE QUARTER THE SLAB OR WALL THICKNESS WITHIN THE SLAB OR WALL UNLESS SPECIFICALLY SHOWN AND DETAILED ON THE STRUCTURAL DRAWINGS. PIPES OR DUCT SHALL BE LOCATED WITHIN MIDDLE THIRD OF SLAB OR WALL THICKNESS.
32. INSTALL INSERTS AND ANCHORS IN CONCRETE FOR SUSPENDING MECHANICAL, ELECTRICAL AND ARCHITECTURAL ITEMS. IF ADDITIONAL FASTENERS ARE NEEDED IN CONVENTIONALLY REINFORCED CONCRETE, USE DRILLED-IN TYPE ANCHORS LOCATED TO AVOID CONFLICT WITH REINFORCEMENT.
33. ANCHOR RODS AND STEEL EMBEDS (FURNISHED BY STRUCTURAL STEEL CONTRACTOR) SHALL BE SET BY TEMPLATE TO WITHIN A 1/8" TOLERANCE IN ANY DIRECTION WITH MINIMUM EMBEDMENT AND EXACT PROJECTION INDICATED ON THE DRAWINGS, PRIOR TO PLACING CONCRETE.
34. NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE.
35. DOWELS INTO FOUNDATION SHALL MATCH SIZE AND SPACING OF VERTICAL REINFORCEMENT AT ALL COLUMNS, PIERS AND WALLS, UNLESS OTHERWISE NOTED.
36. PROVIDE TWO #5 BARS (ONE EACH FACE) AROUND UNFRAMED OPENINGS IN SLABS AND WALLS. PLACE BARS PARALLEL TO SIDES OF OPENINGS AND EXTEND THEM 24 INCHES BEYOND CORNERS, UNLESS OTHERWISE NOTED.
37. LOCATE SLEEVES, OPENINGS, EMBEDS, ETC. AS INDICATED ON THE DRAWINGS. THE CONCRETE CONTRACTOR SHALL CHECK WITH OTHER TRADES TO MAKE SURE THE SLEEVES, OPENINGS AND EMBEDS THAT ARE TO BE PROVIDED AND SET BY THEM ARE IN PLACE PRIOR TO PLACING OF CONCRETE IN THE AREA INVOLVED.
38. CONTRACTOR SHALL OBTAIN APPROVAL PRIOR TO PLACING OPENINGS OR SLEEVES NOT SHOWN ON THE DRAWINGS, THROUGH ANY STRUCTURAL MEMBER.
39. CONTRACTOR SHALL REVIEW CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR BASES, OPERINGS, SLEEVES, ANCHORS, INSERTS, CONDUITS, RECESSES AND OTHER DEVICES IN CONCRETE WORK BEFORE PLACING CONCRETE.
40. HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE INDICATED. THE LOCATION OF VERTICAL CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. CONSTRUCTION JOINTS SHALL BE THOROUGHLY MECHANICALLY ROUGHENED, CLEANED AND BONDING AGENT APPLIED BEFORE PLACEMENT OF ADJOINING CONCRETE.
41. FOR CONTROL JOINTS IN SLABS AND WALLS, SPACE JOINTS AT MAXIMUM 15 FEET ON CENTER UNLESS OTHERWISE NOTED ON THE DRAWINGS. REFER TO MDOT DETAILS.
42. CONSTRUCTION JOINTS SHALL BE FURNISHED WITH A FULL LENGTH KEYWAY CENTERED ON MEMBERS. WHERE THE SIZE OF KEY IS NOT SHOWN ON THE DRAWINGS, THE KEY SHALL BE 25% OF THE CROSS SECTION DIMENSION OF THE MEMBER AND MINIMUM 1-1/2 INCHES INTO THE FIRST POUR OF CONCRETE.
43. PROVIDE WATERSTOPS IN CONSTRUCTION JOINTS IN CAST-IN-PLACE CONCRETE ELEMENTS THAT HAVE ONE SIDE EXPOSED TO THE WEATHER OR SOIL AND THE OTHER SIDE OCCURRING ADJACENT TO ENCLOSED SPACE. REFER TO DRAWINGS AND SPECIFICATIONS FOR OTHER WATERPROOFING AND DAMP PROOFING DETAILS.
44. PROVIDE 3/4" X 3/4" CHAMFER STRIP AT ALL EXPOSED CORNERS OF CONCRETE MEMBERS, UNLESS NOTED OTHERWISE.
45. PROVIDE DOVETAIL SLOTS IN CONCRETE MEMBERS WHERE MASONRY ABUTS AND WHERE REQUIRED FOR VENEER ATTACHMENT.
46. THE CONCRETE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POUR SEQUENCES AND CONSTRUCTION PROCEDURES FOR ALL CONCRETE WORK TO ACCOUNT FOR TEMPERATURE DIFFERENTIALS AND SHRINKAGE OCCURRING DURING THE CONSTRUCTION PHASE UNTIL THE BUILDING IS PERMANENTLY IN A MECHANICALLY CONTROLLED ENVIRONMENT.
47. COORDINATE VAPOR RETARDER REQUIREMENTS WITH FLOOR FINISH REQUIREMENTS.
48. PROVIDE POCKETS OR RECESSES IN CONCRETE WORK FOR STEEL COLUMNS AND BEAMS AS REQUIRED AND/OR AS CALLED FOR IN THE SPECIFICATIONS EVEN IF NOT SHOWN ON THE DRAWINGS. PROVIDE CONCRETE FILL AFTER STEEL ERECTION.
49. CONCRETE SHALL BE PLACED TO THE CONSTANT TOP OF SLAB ELEVATIONS, WHILE MAINTAINING THE MINIMUM CONCRETE THICKNESS NOTED ON THE DRAWINGS.
50. THE USE OF CHLORIDES SUCH AS DEICING SALTS IS PROHIBITED FOR MELTING ICE PRIOR TO PLACEMENT OF CONCRETE.
51. CURING OF CONCRETE SURFACES SHALL CONFORM TO ACI 308.1 "STANDARD SPECIFICATION FOR CONCRETE CURING" AND ACI 308R "GUIDE TO CURING CONCRETE".
52. JOINTS BETWEEN THE STRUCTURAL MEMBERS SHALL BE PROPERLY PREPARED AND FILLED WITH JOINT SEALANT UNLESS NOTED OTHERWISE. ALL JOINT EDGES, INCLUDING TOP AND BOTTOM SURFACES AND VERTICAL AND HORIZONTAL SURFACES SHALL BE FORMED OR TOoled AS REQUIRED. JOINT SEALANT SHALL BE APPLIED ONLY TO THE TOP, VERTICAL, AND HORIZONTAL SURFACES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
53. JOINTS TO BE PREPARED AND FILLED WITH JOINT SEALANT SHALL INCLUDE, BUT ARE NOT LIMITED TO, CONSTRUCTION JOINTS, CONTROL JOINTS, ISOLATION JOINTS, AND ALL INTERFACE JOINTS BETWEEN SIMILAR AND DISSIMILAR MEMBERS. SPECIFIC LOCATIONS MAY BE INDICATED ON THE DRAWINGS, OR MAY BE REQUIRED BY APPROVED SHOP DRAWINGS, OR MAY OCCUR DUE TO THE CONSTRUCTION SEQUENCE SELECTED BY THE CONTRACTOR.
54. PRIOR TO PLACING CONCRETE ADJACENT TO EXISTING CONCRETE, THOROUGHLY CLEAN, DE-GREASE AND MECHANICALLY ROUGHEN EXISTING CONCRETE SURFACES. APPLY EPOXY BONDING AGENT PRIOR TO PLACING FRESH CONCRETE. BONDING AGENT SHALL BE "SIKA ARMATEC 110 EPOCHEM BY SIKKA CORPORATION, OR APPROVED EQUAL. FOLLOW ALL MANUFACTURER'S INSTRUCTIONS FOR SURFACE PREPARATION, MIXING AND APPLICATION. FOR NEW CONCRETE WALLS AND FOOTINGS PLACED ADJACENT TO EXISTING, DRILL AND EPOXY #4 DOWELS X 2'-0" LONG (EQUALLY SPACED BETWEEN NEW AND EXISTING) INTO EXISTING CONCRETE SPACED AT 2'-0" O.C. VERTICALLY AND/OR HORIZONTALLY, TYPICAL UNLESS OTHERWISE NOTED.
55. PROVIDE MINIMUM 2" DEEP SAW CUT IN CONCRETE ELEMENTS BEING REMOVED. BREAK REMAINDER ALONG NEAT LINES. PROVIDE AN EPOXY BONDING AGENT ON THE ROUGHENED AND CLEANED SURFACE WHERE NEW CONCRETE IS BEING PLACED ADJACENT TO EXISTING CONSTRUCTION.
56. NON-SHRINK GROUT SHALL CONFORM TO ASTM C1107. GROUT SHALL BE PREMIXED, NON-SHRINK NON-CATALYZED NATURAL AGGREGATE GROUT WITH A MINIMUM SEVEN-DAY COMPRESSIVE STRENGTH OF 7,000 PSI PLASTIC, 6,000 PSI FLOWABLE, AND 5,000 PSI FLUID CONSISTENCY.
57. REINFORCING STEEL, ANCHOR RODS AND EMBED PLACEMENT SHALL BE INSPECTED, PRIOR TO PLACEMENT OF CONCRETE. IN ACCORDANCE WITH ACI-318 AND CODE REQUIRED SPECIAL INSPECTION BY QUALIFIED INSPECTOR PRIOR. THESE INSPECTIONS ARE NOT INCLUDED IN THE BASIC SERVICES OF THE STRUCTURAL ENGINEER OF RECORD.



Know what's below.  
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TEW	TEW	TEW	CHECKED
TUS	QSH	QSH	DRAWN
04/03/2019	01/10/2019	12/07/2018	DATE
03	02	01	REV.
ISSUE FOR BID	CITY PLANNING REVIEW	PRELIMINARY SITE PLANS	OWNER REVIEW DESCRIPTION

CITY OF ANN ARBOR PUBLIC SERVICES  
301 EAST HURON STREET  
PO BOX 884  
ANN ARBOR MI 48106-0884  
www.a3gov.org

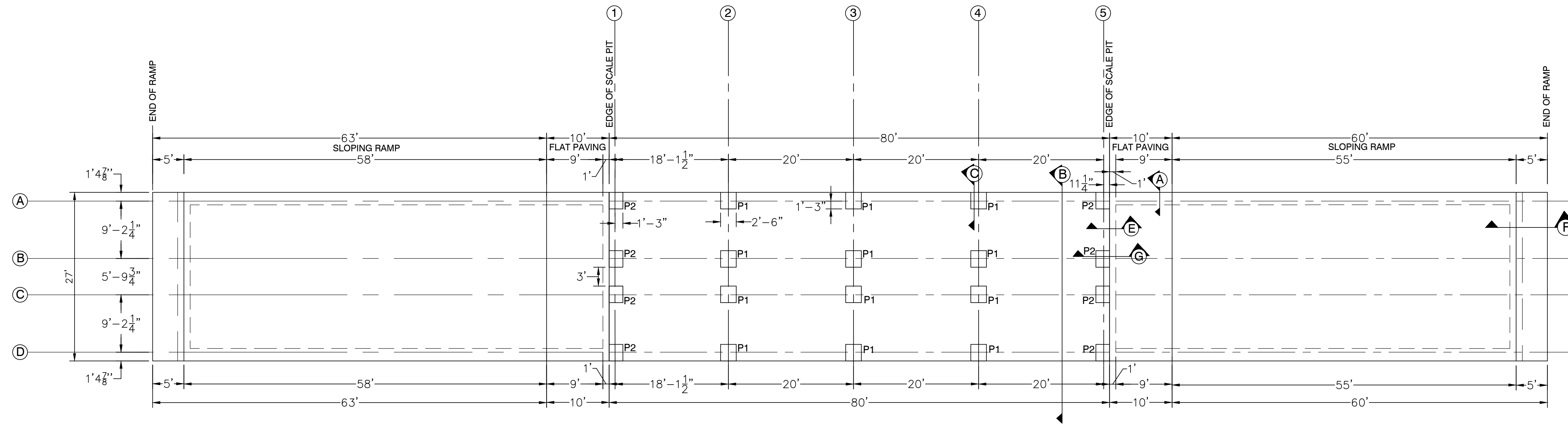


CITY OF ANN ARBOR - ENGINEERING  
LANDFILL SCALE AND ENTRANCE IMPROVEMENTS  
SCALE FOUNDATION NOTES

DRAWING No. ANNA0035-09

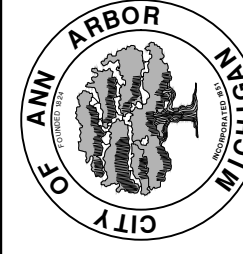
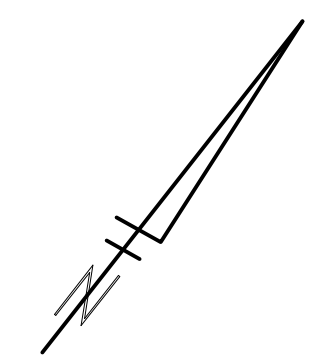
SHEET No. C-09

W:\Projects\Projects A-E\ANNA0035\CAD\BASE\Preliminary Site Plan\ANNA0035\_HS\_SCALE FOUNDATION.dwg Dwg Created: 26-Feb-20 --\_a2\_standard bw.stb -- Plot Date: 3-Mar-20

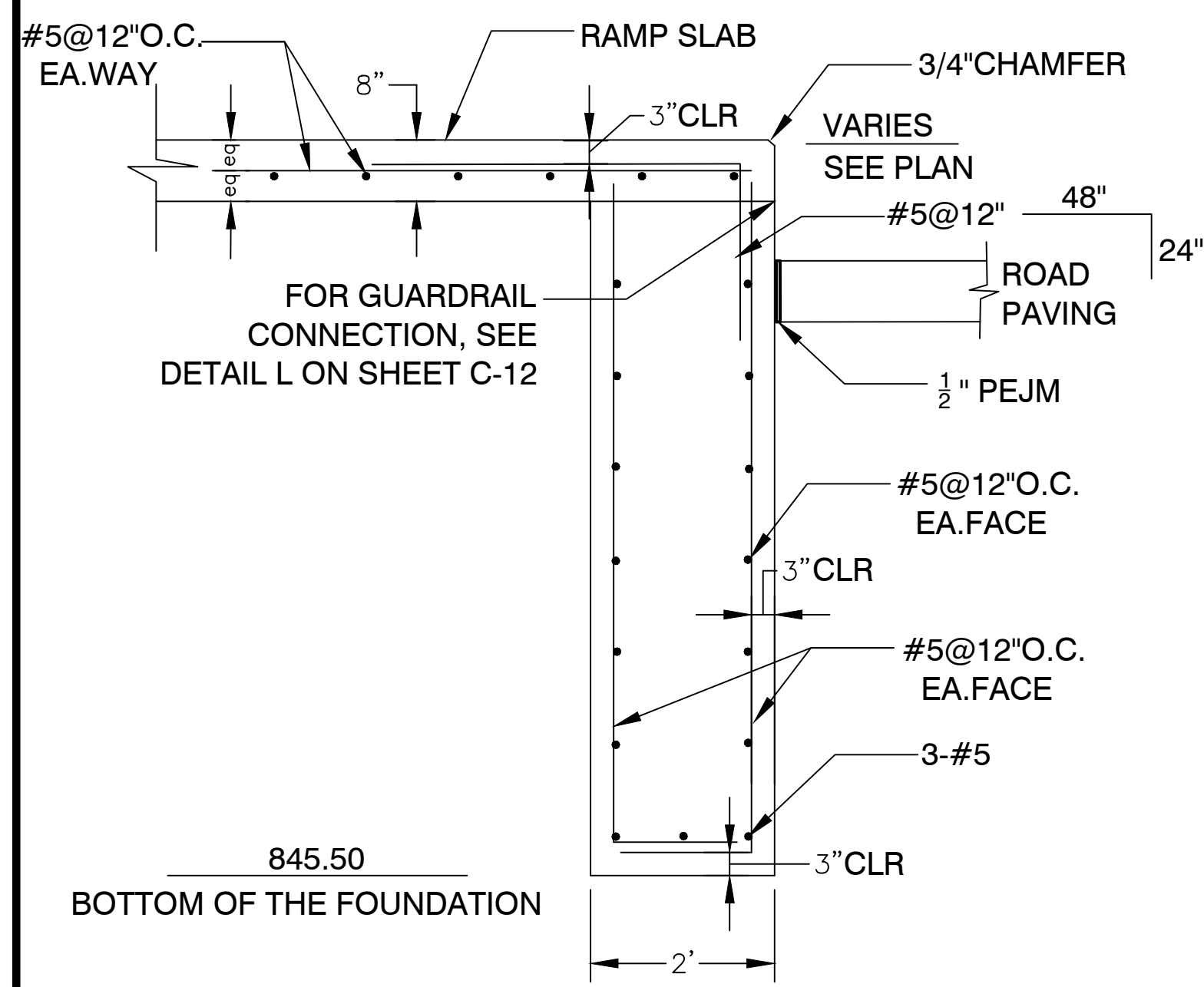


**SCALE FOUNDATION PLAN**

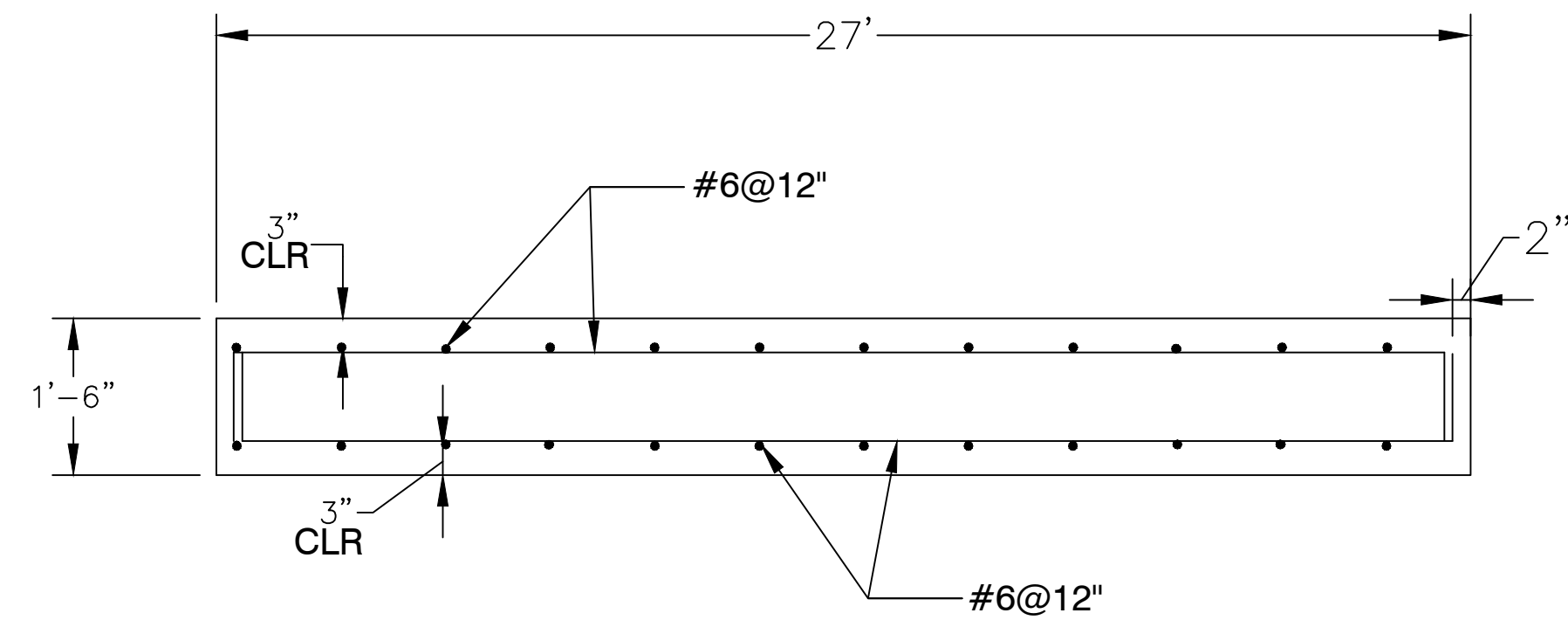
NOTE: SEE SHEET C-06 FOR FINISH GRADE ELEVATION



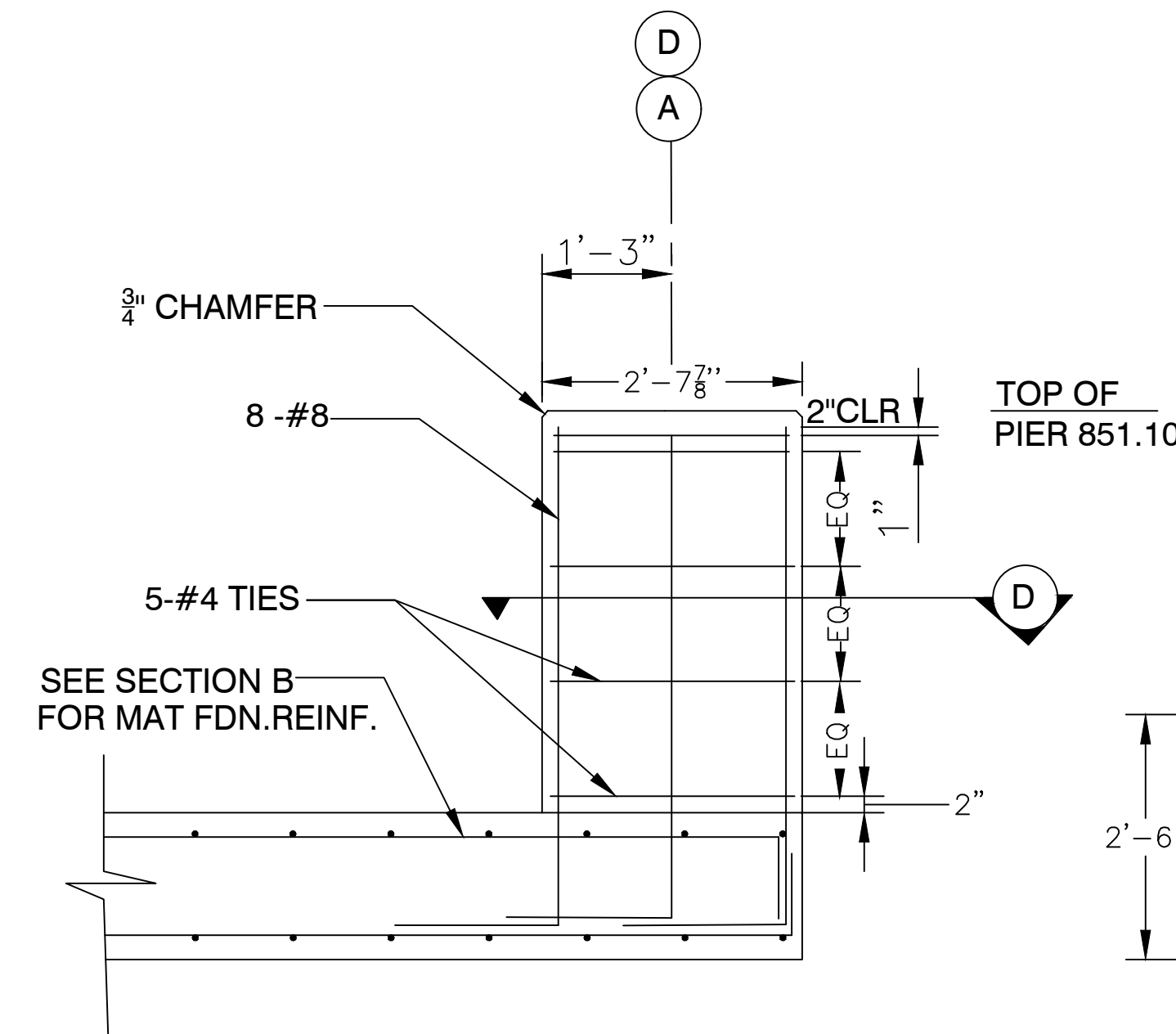
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04	REVISED PLANS	03/03/2020	TJS	TEW
03	ISSUE FOR BID	04/03/2019	TJS	TEW
02	CITY PLANNING REVIEW	01/10/2019	OSH	TEW
01	PRELIMINARY SITE PLANS OWNER REVIEW	12/07/2018	OSH	TEW



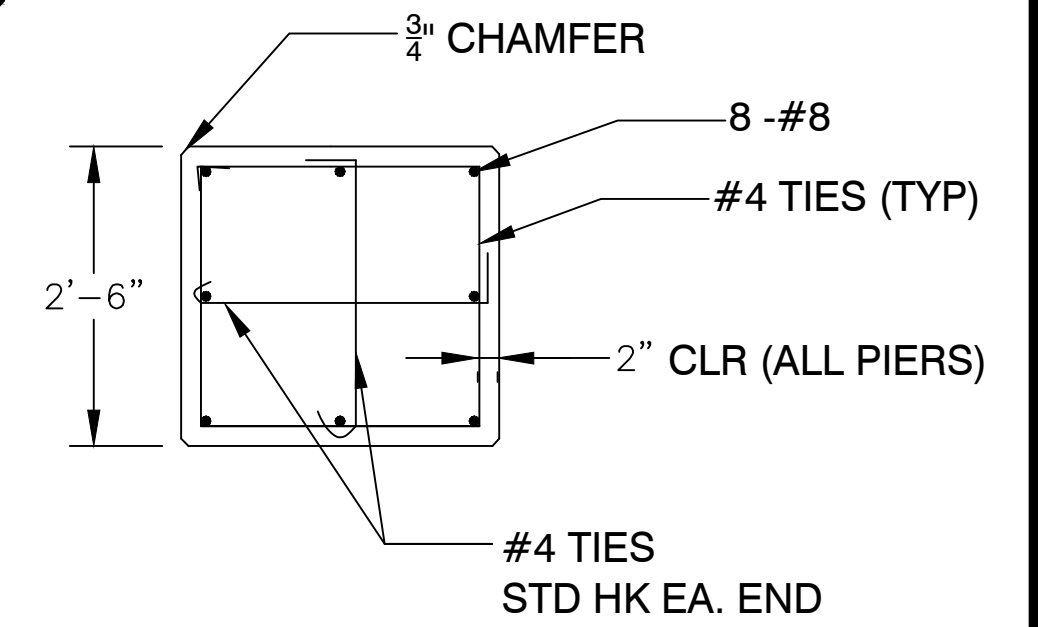
**A** RAMP SIDE FOUNDATION SECTION



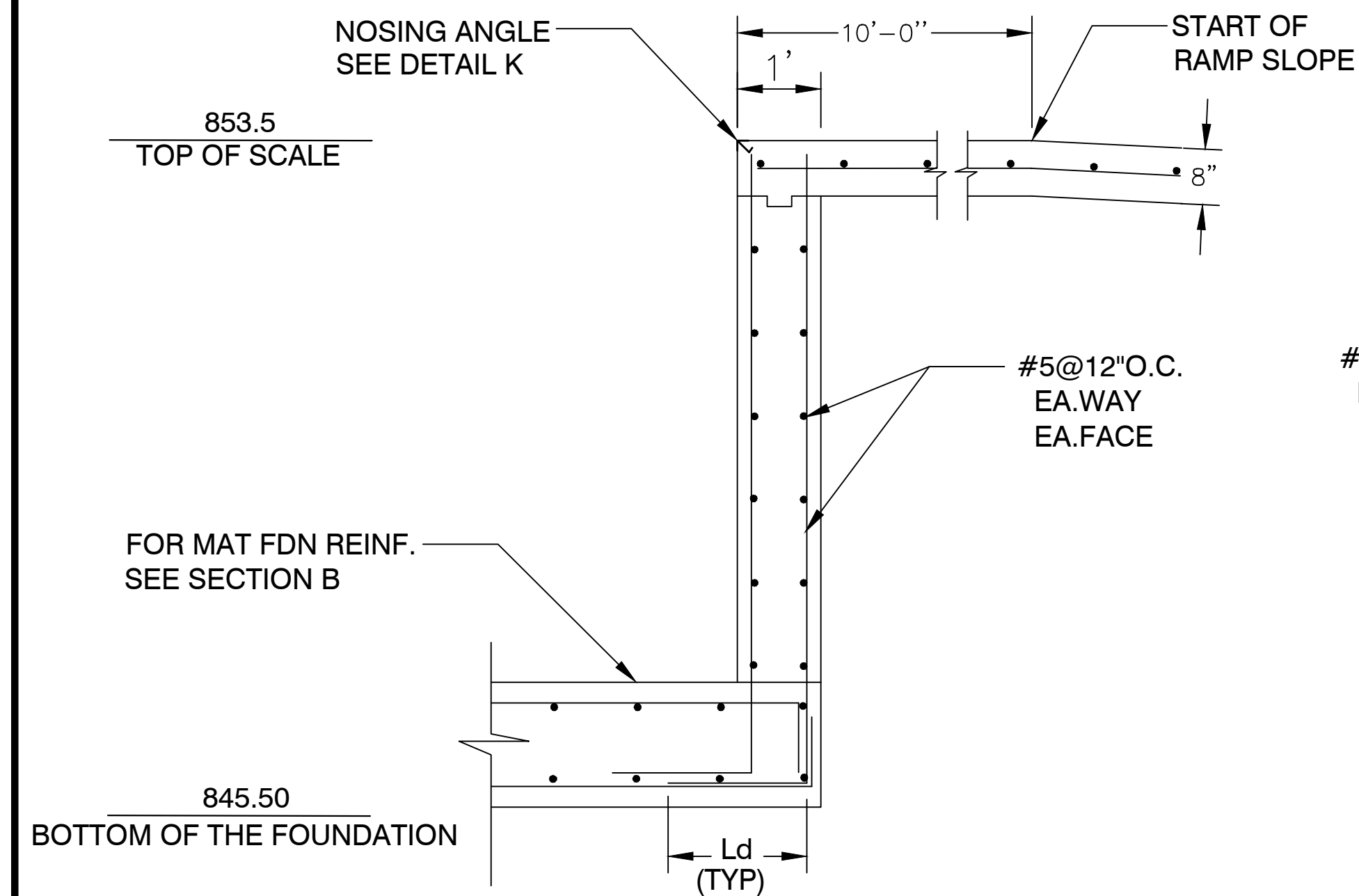
**B** MAT FOUNDATION SECTION



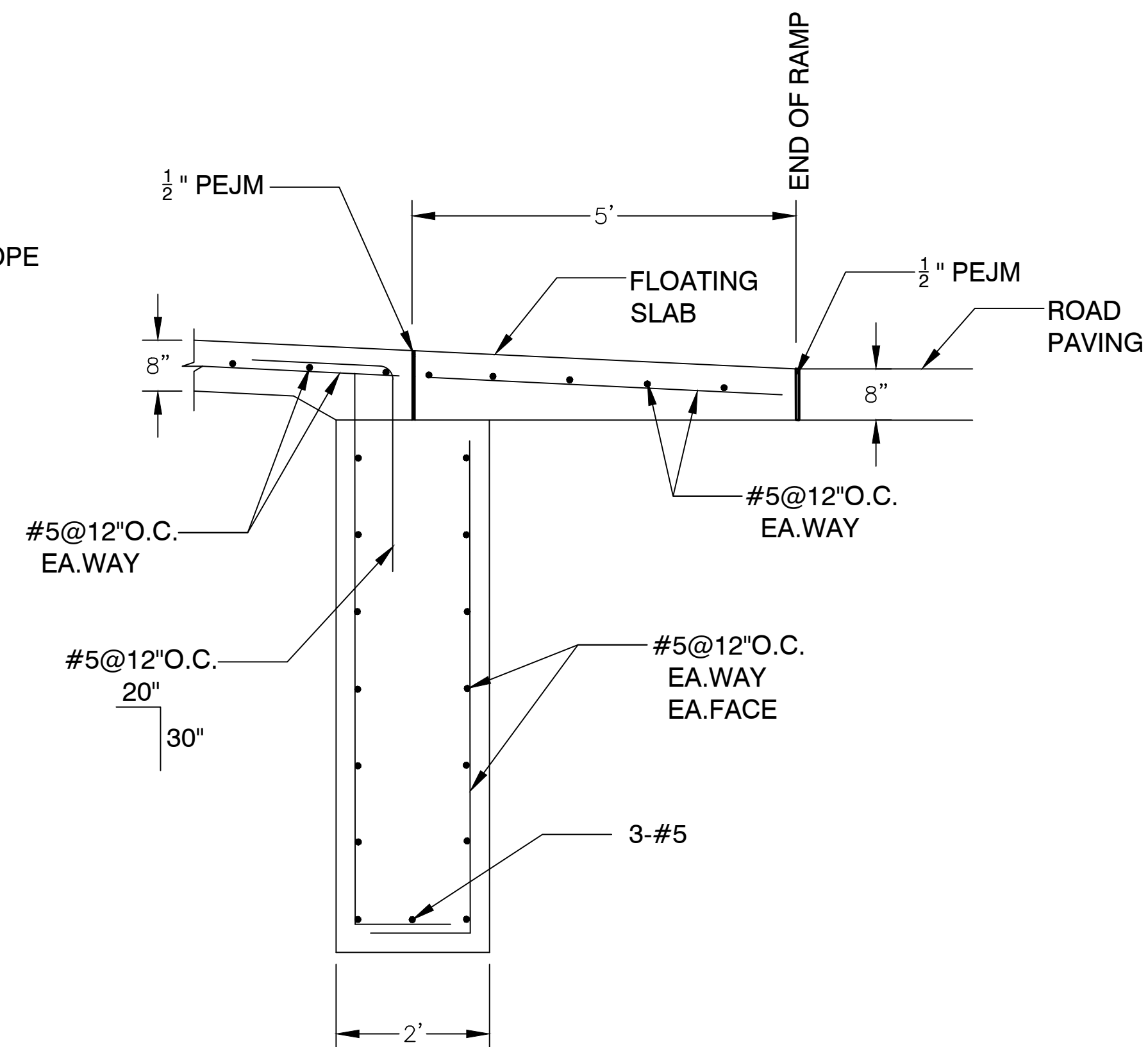
**C** PIER P1 DETAIL



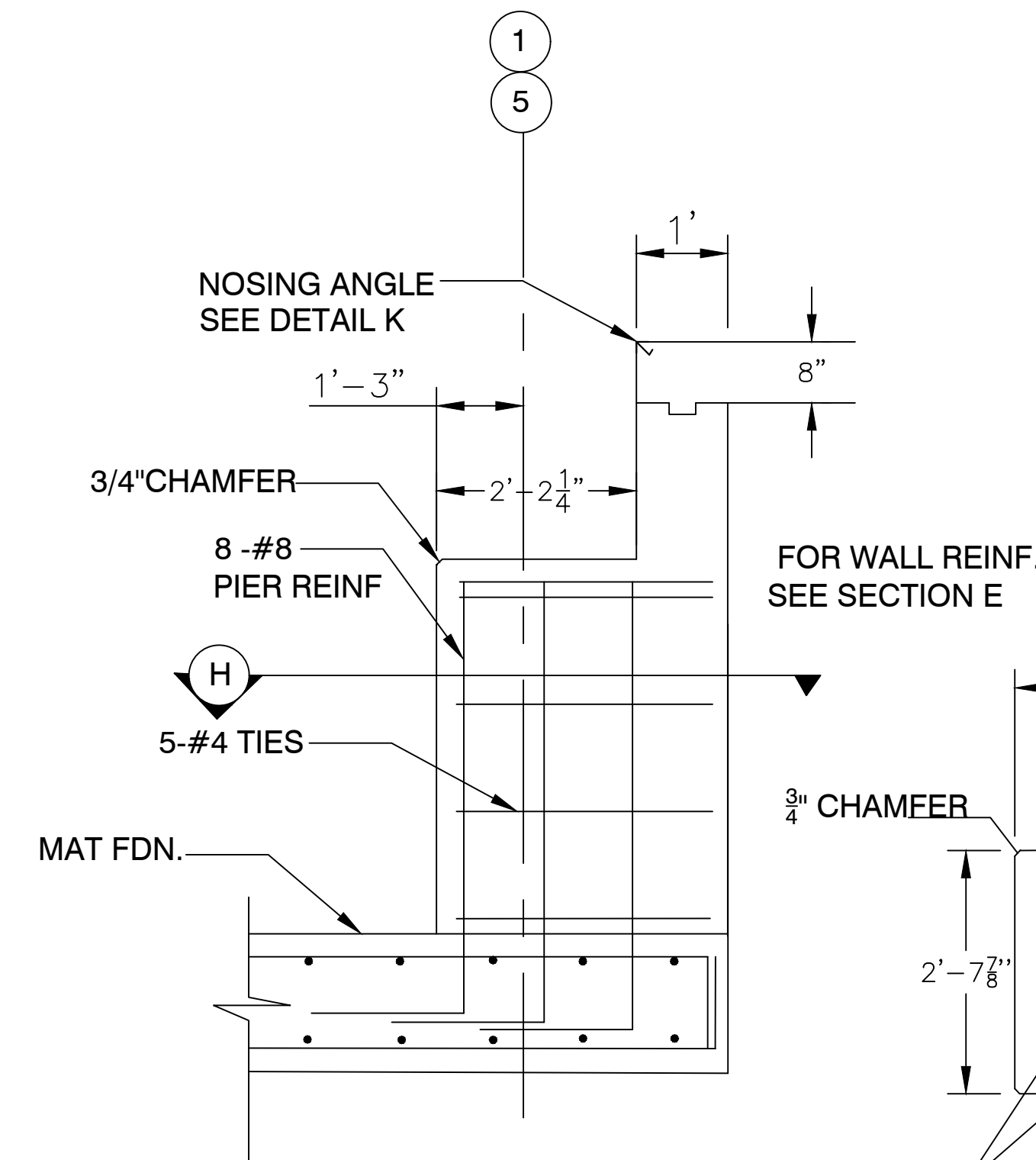
**D** PIER P1 SECTION



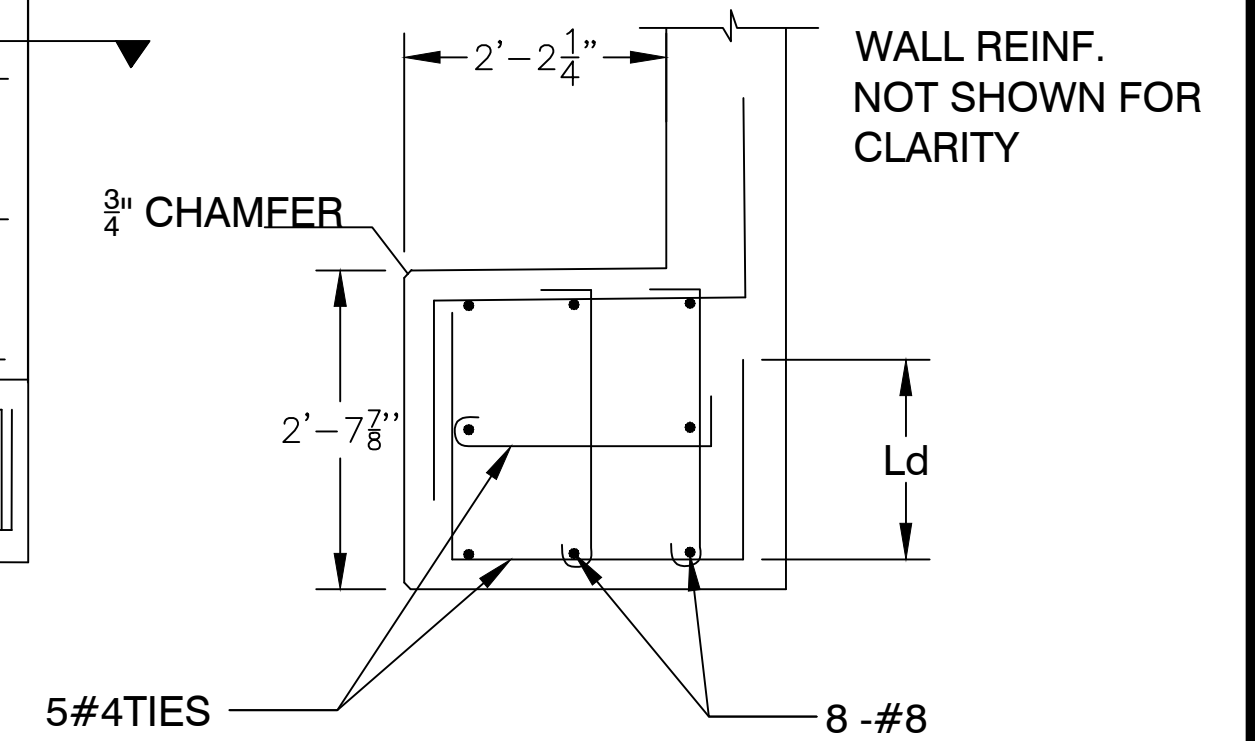
**E** TOP OF RAMP FOUNDATION SECTION



**F** END OF RAMP FOUNDATION SECTION



**G** PIER P2 DETAIL

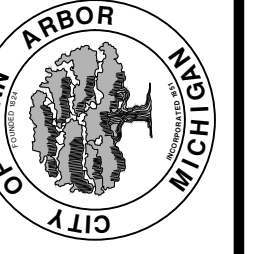


**H** PIER P2 SECTION

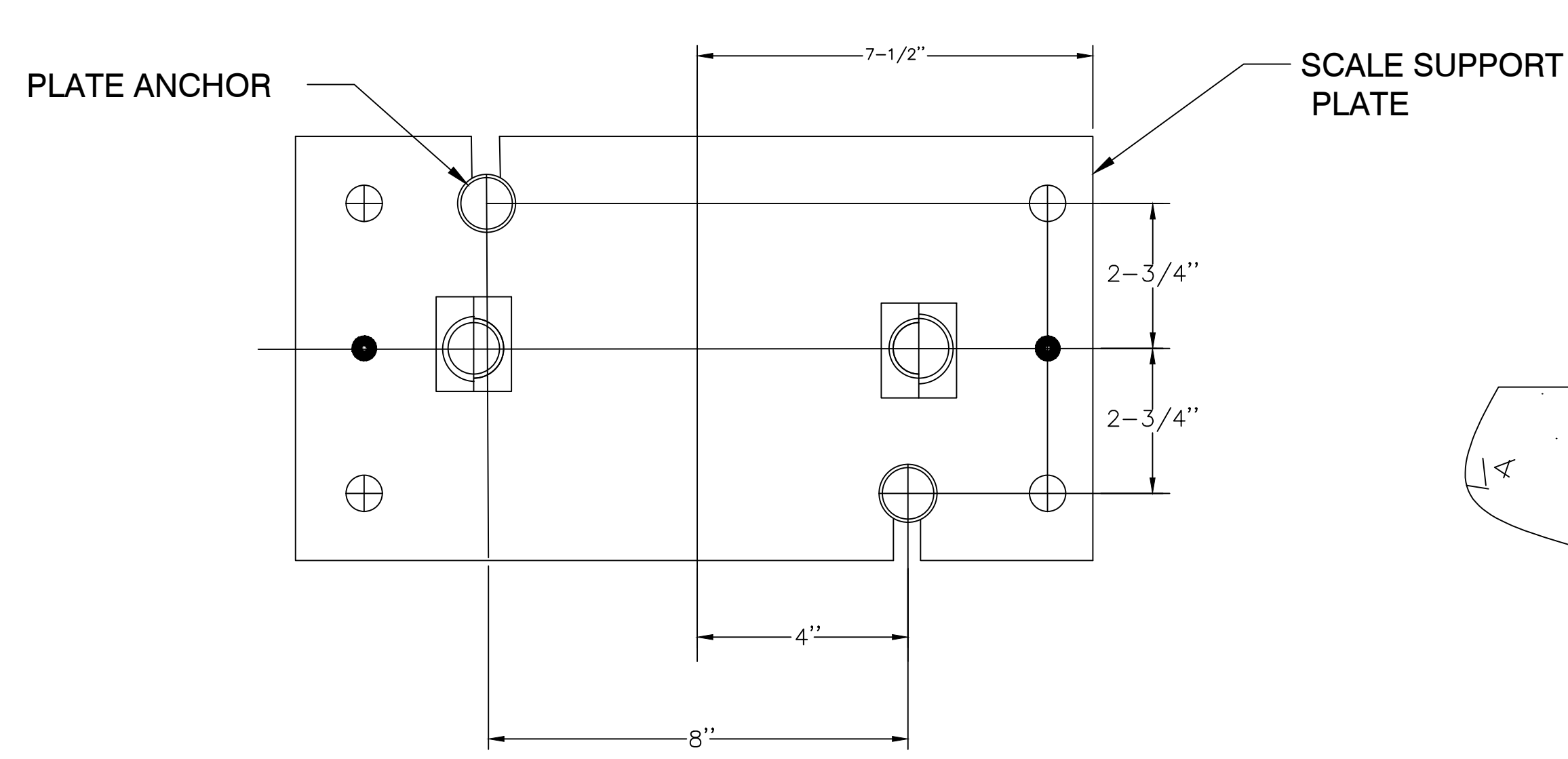


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03	04/03/2019	ISSUE FOR BID	TJS	TJS
02	01/10/2019	CITY PLANNING REVIEW	QSH	QSH
01	12/07/2018	PRELIMINARY SITE PLANS OWNER REVIEW	QSH	QSH

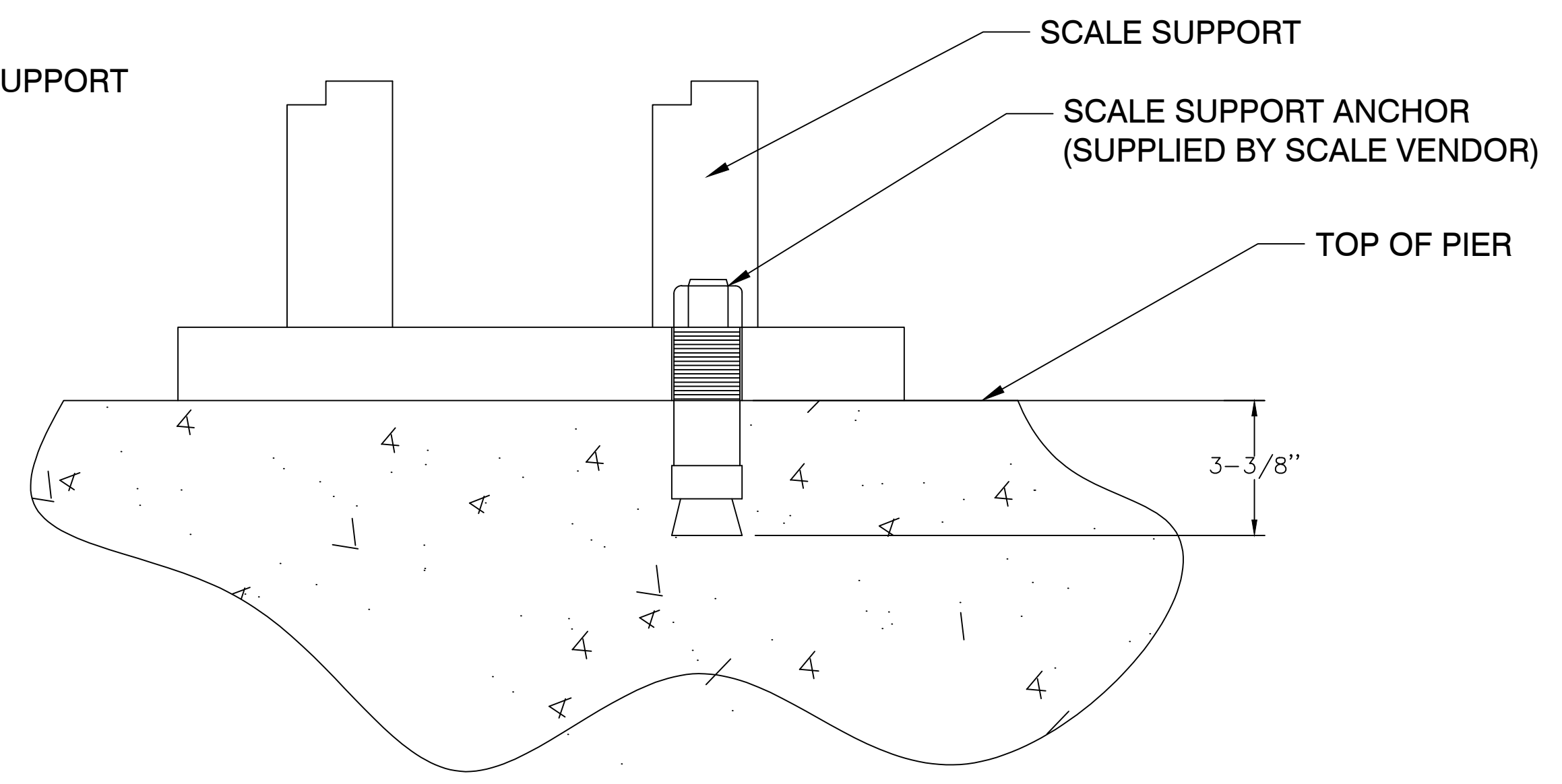
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PUBLIC SERVICES  
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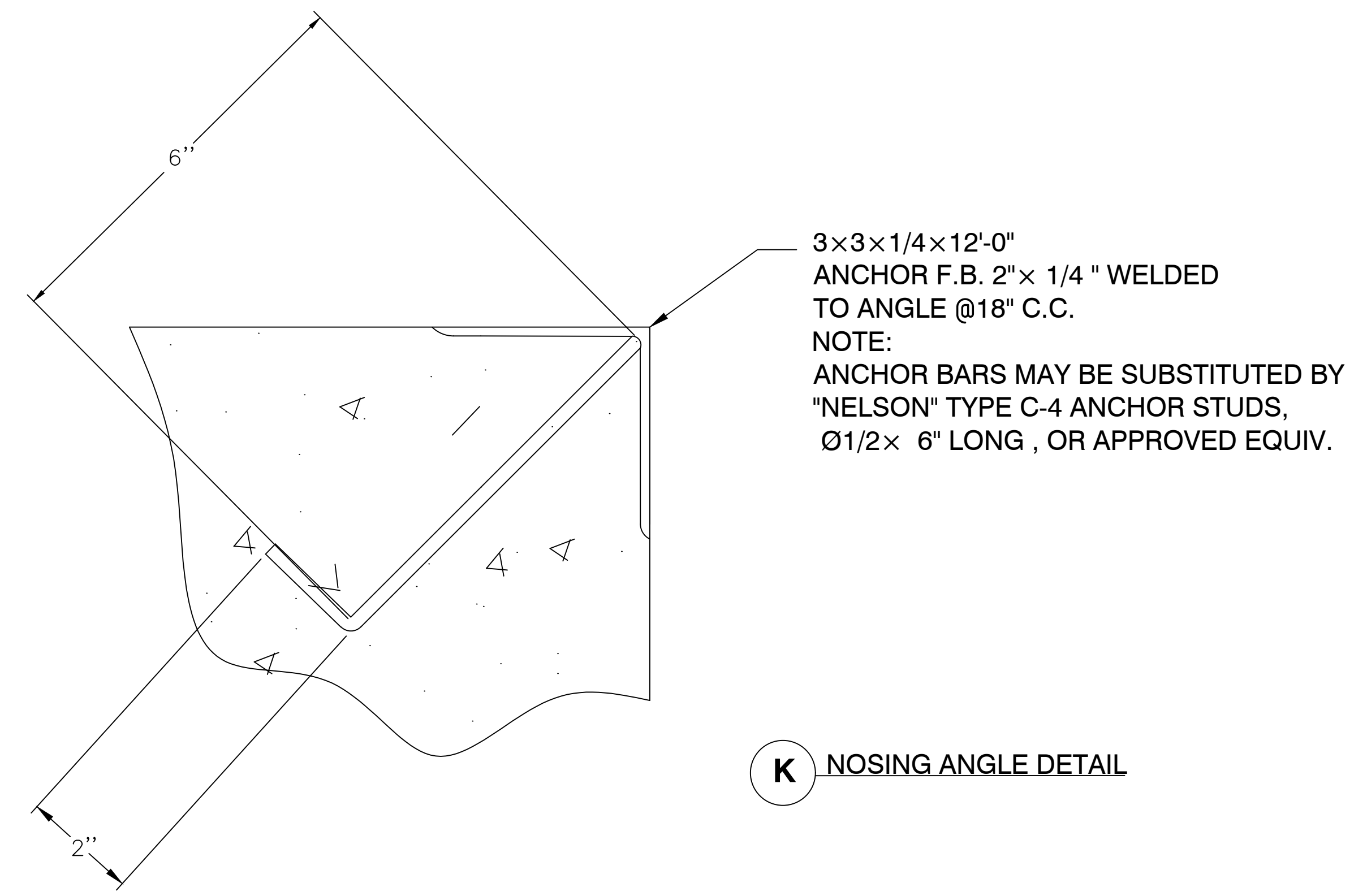
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
LANDFILL SCALE AND ENTRANCE IMPROVEMENTS  
SCALE FOUNDATION DETAILS  
SCALE  
DRAWING No. ANNA 0035-11  
SHEET No. NTS



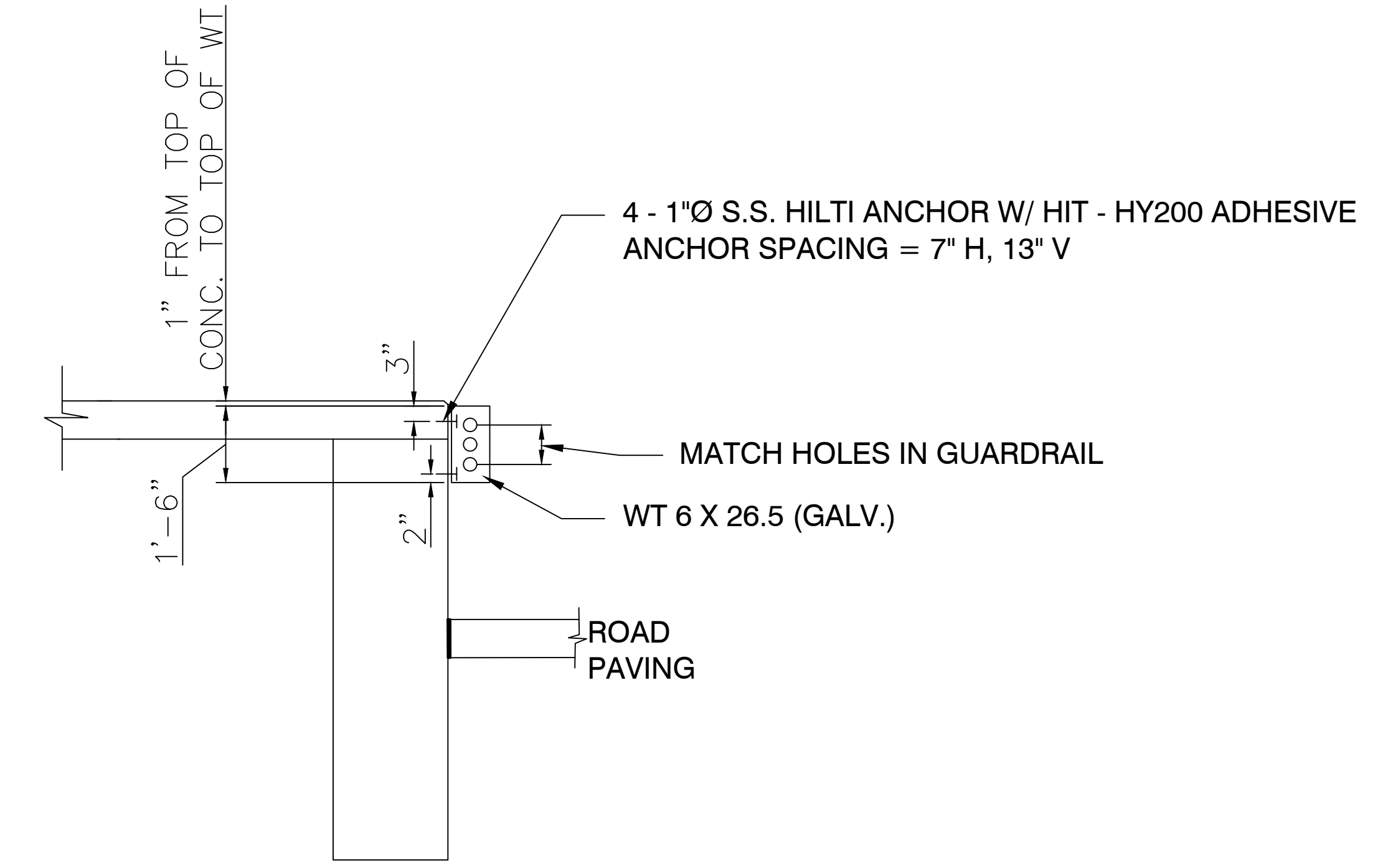
**I** SCALE PLATE PLAN



**J** SCALE PLATE SECTION



**K** NOSING ANGLE DETAIL



**L** GUARDRAIL CONNECTION  
NOTE: GUARDRAIL TO MATCH SCALE RAIL.



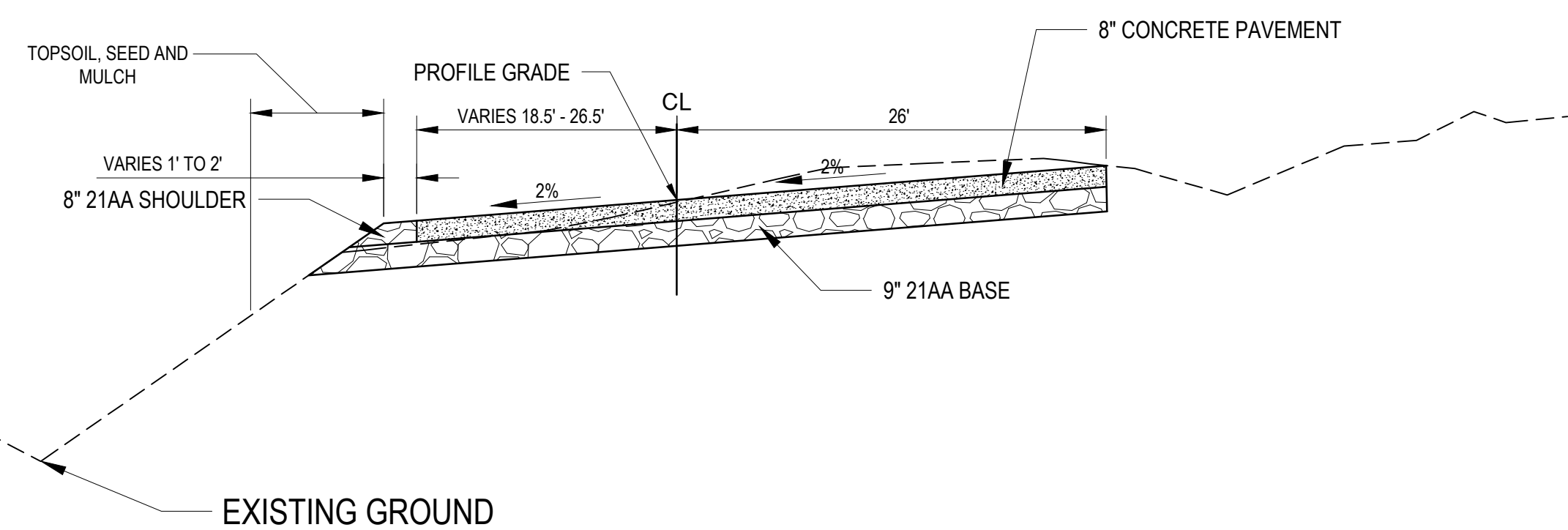
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04	REVISED PLANS	03/03/2020	TJS	TEW
03	ISSUE FOR BID	04/03/2019	TJS	TEW
02	CITY PLANNING REVIEW	01/10/2019	QSH	TEW
01	PRELIMINARY SITE PLANS OWNER REVIEW	12/07/2018	QSH	TEW

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
LANDFILL SCALE AND ENTRANCE IMPROVEMENTS  
SCALE FOUNDATIONS DETAILS

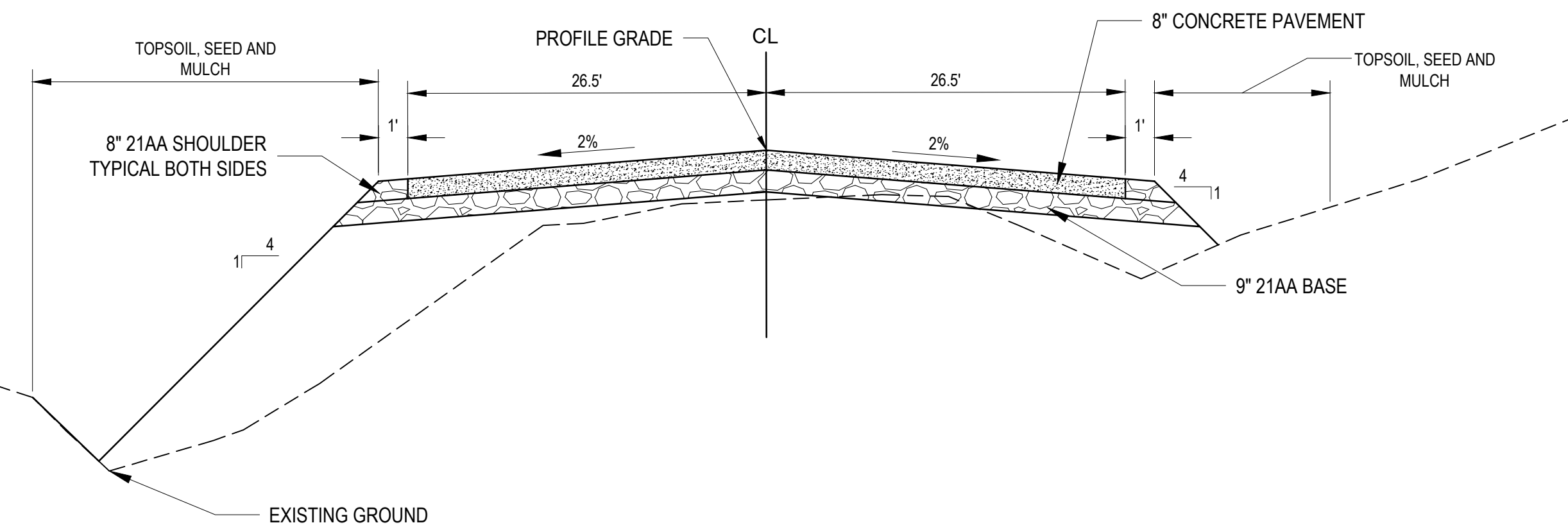
SCALE NTS  
DRAWING No. ANNA 0035-12

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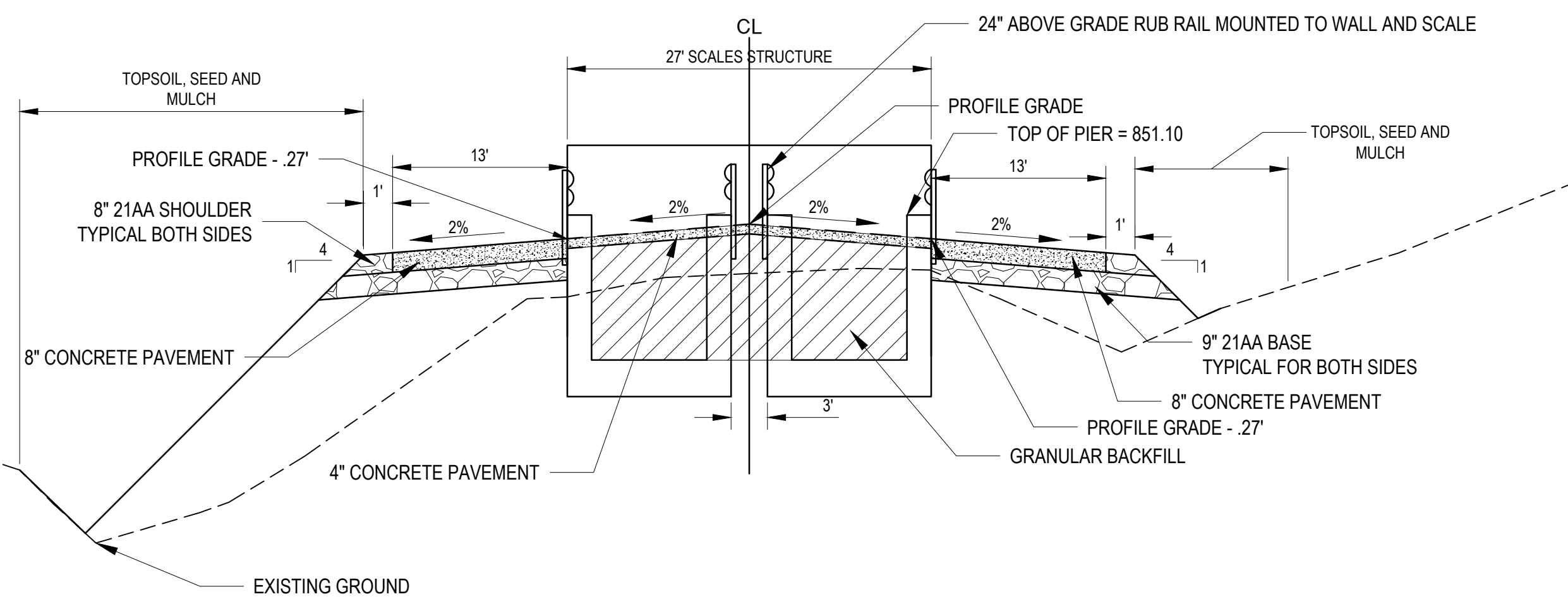


**TYPICAL CROSS SECTION THREE LANE SECTION  
FROM STATION 2+00.00 TO 2+87.00**

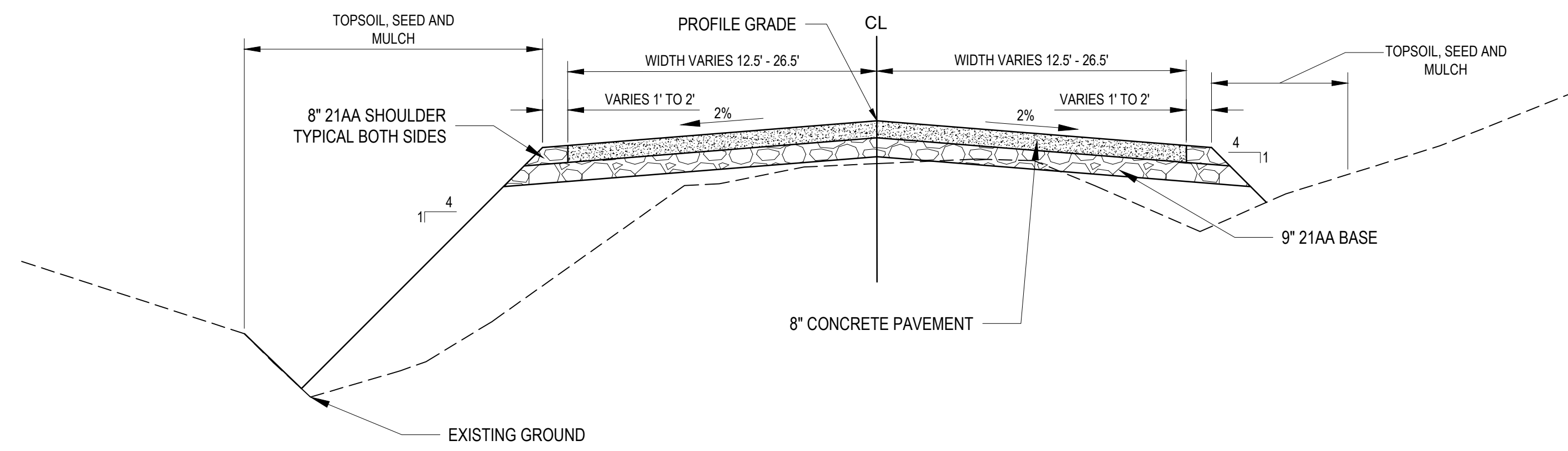
**NOTE: TOPSOIL, SEED AND MULCH LIMITS EXTEND  
2 FEET BEYOND TOUCH DOWN POINT  
ON TYPICAL CROSS SECTION**



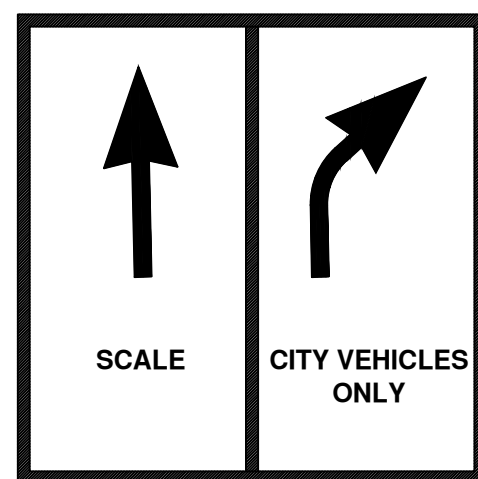
**TYPICAL CROSS SECTION WIDENING AREA  
FROM STATION 5+10.00 TO 5+25.00**



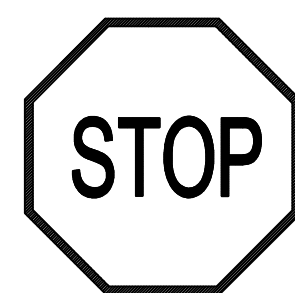
**TYPICAL CROSS SECTION SCALE AREA  
FROM STATION 2+87.00 TO 5+10.00**



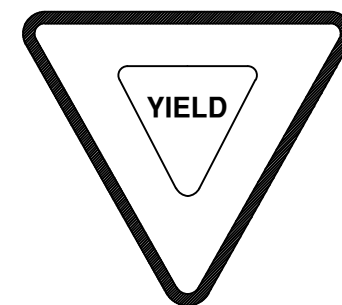
**TYPICAL CROSS SECTION WIDENING AREA  
FROM STATION 5+25.00 TO 6+00.00**



SIGN CODE A2-1



SIGN CODE R1-1 (30)

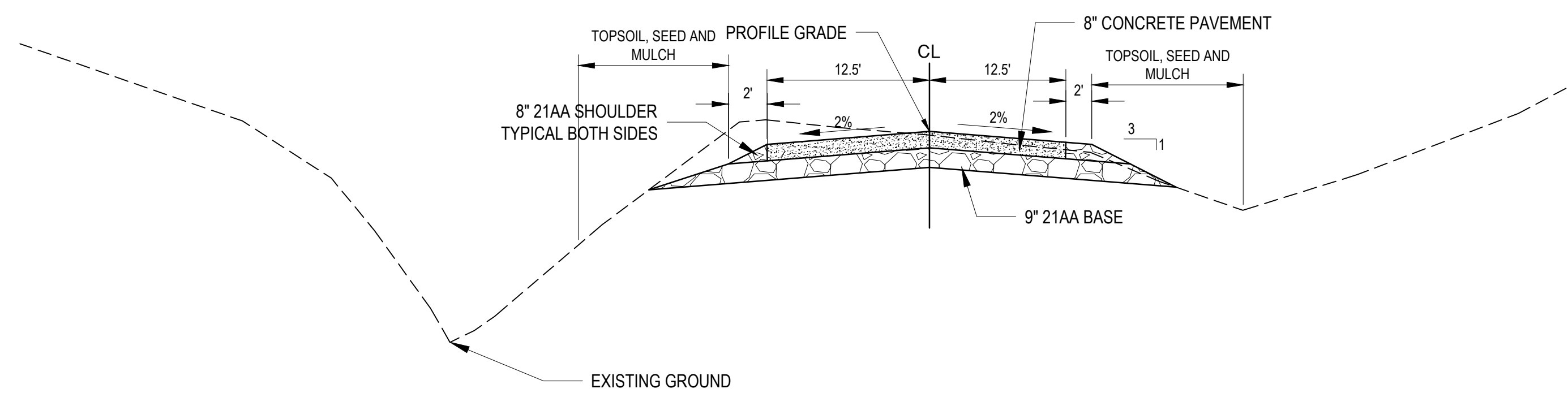


SIGN CODE R1-2 (36)

FABRICATE SIGNS ACCORDING TO MDOT STANDARDS

**TRAFFIC SIGNS DETAILS**

FOLLOW MDOT STANDARD SIGN INSTALLATIONS (SIGN-100-G)

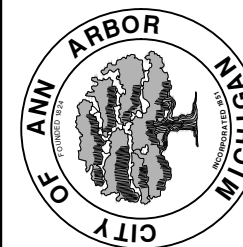


**TYPICAL CROSS SECTION TWO LANE SECTION  
FROM 6+00.00 TO 6+49.84 OR END OF WORK**



REV.	DATE	DESCRIPTION
03	04/03/2019	ISSUE FOR BID
02	01/10/2019	CITY PLANNING REVIEW
01	12/07/2018	PRELIMINARY SITE PLANS OWNER REVIEW
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		CHECKED

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**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
LANDFILL SCALE AND ENTRANCE IMPROVEMENTS**

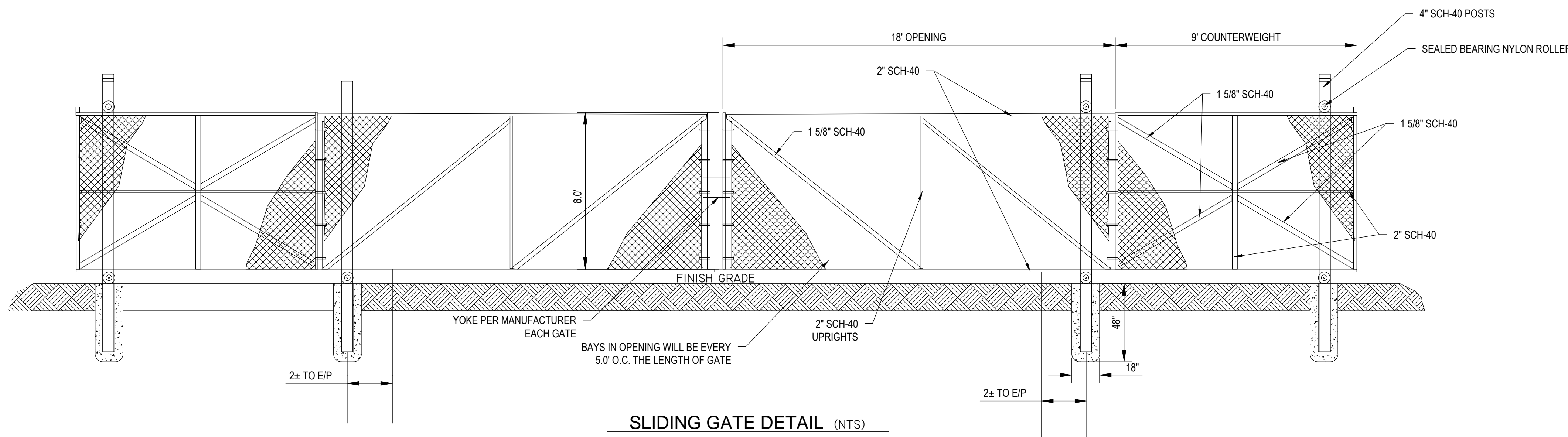
ROADWAY TYPICAL SECTIONS AND DETAILS

SCALE PLAN: 1" = 100'  
PROFILE: 1" = 4'  
DRAWING No. ANNA0035-13

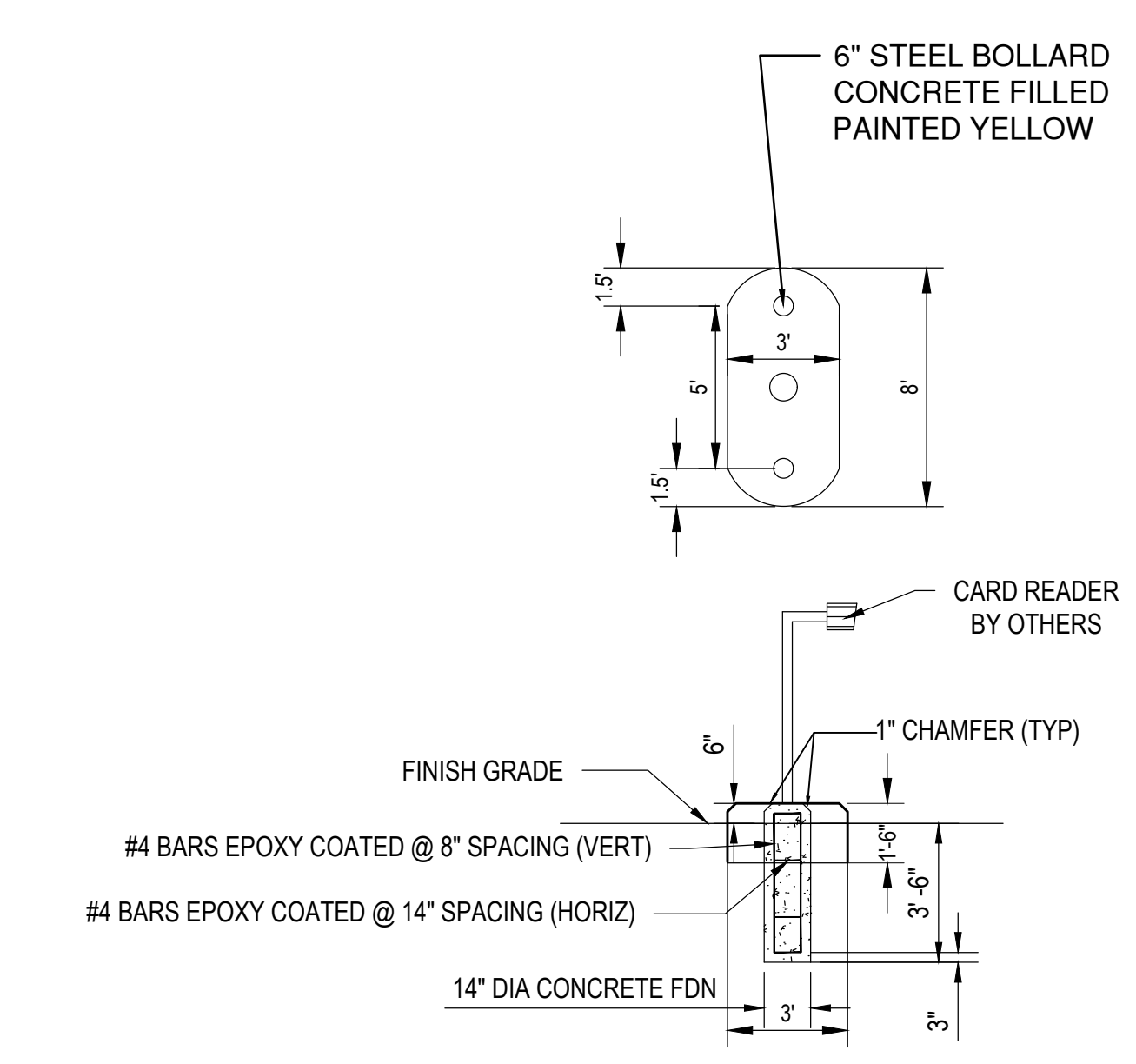
SHEET No.



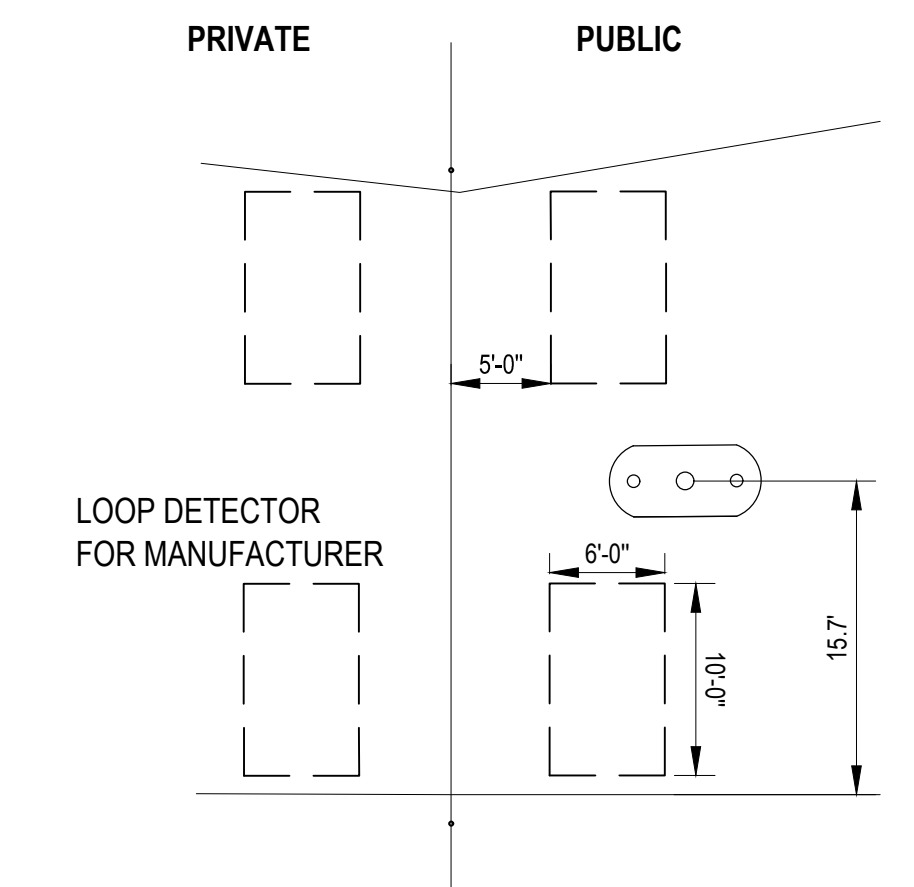
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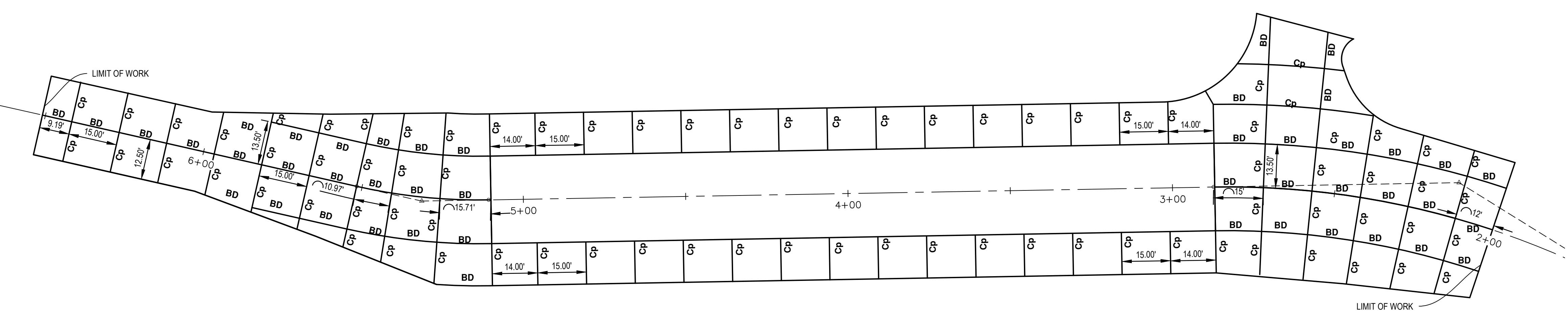
SLIDING GATE DETAIL (NTS)



CARD READER DETAIL  
NTS




ENTRANCE DETAIL A  
SCALE: 1"=10'  
C-14



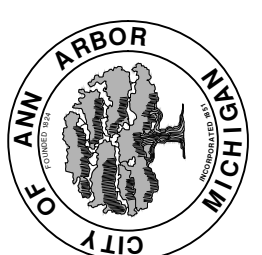
CONCRETE PAVEMENT JOINTS LAYOUT  
SCALE: 1"=20'

- JOINT DETAILS**
1. BD: OPTIONAL B OR D JOINT.
  2. Cp: TRANSVERSE CONTRACTION JOINT WITH LOAD TRANSFER DEVICE.
  3. B: LONGITUDINAL BULKHEAD JOINT.
  4. D: LONGITUDINAL LANE JOINT.
  5. REFER TO MDOT R-39-K AND R-41-H FOR DETAILS.



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REV.	DATE	DESCRIPTION
03	04/03/2019	ISSUE FOR BID
02	01/10/2019	CITY PLANNING REVIEW
01	12/07/2018	PRELIMINARY SITE PLANS OWNER REVIEW



**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**LANDFILL SCALE AND ENTRANCE IMPROVEMENTS**

DRAWING No. ANNA0035-14

SHEET No. C-14





**DESCRIPTION OF OPERATIONS**

ALL INSTALLED SYSTEMS / EQUIPMENT TO BE COMPATIBLE WITH AND TO INTERFACE WITH CITY OF ANN ARBOR MARF FACILITY IT SYSTEMS AS OUTLINED BELOW:

**EXTERIOR GATE OPERATOR**

BUSINESS HOURS - OPEN (HOURS TO BE DETERMINED BY CITY OF ANN ARBOR)

AFTER HOURS - ACCESS LIMITED TO CITY OF ANN ARBOR VEHICLES VIA ACCESS AT ENTRANCE KIOSK (KEYPAD, CARD READER, ETC.)

**SCALE - INBOUND**

CITY VEHICLE - RFID READER TO COMMUNICATE WEIGHT / MATERIAL OF INCOMING VEHICLE

VENDOR VEHICLE - RFID READER AT SCALE TO COMMUNICATE WEIGHT / MATERIAL OF INCOMING VEHICLE

RESIDENTIAL CUSTOMERS - INPUT RESIDENT INFORMATION (LICENSE NUMBER, PHOTO, ETC.) AT SCALE MOUNTED KIOSK TO LOG IN TO THE SITE. SCALE TO COMMUNICATE WEIGHT / MATERIAL OF INCOMING VEHICLE.

**SCALE - OUTBOUND**

CITY VEHICLE - RFID READER TO COMMUNICATE WEIGHT / MATERIAL OF OUTGOING VEHICLE FOR TRACKING INVENTORY OF MATERIALS.

VENDOR VEHICLE - RFID READER AT SCALE TO COMMUNICATE WEIGHT / MATERIAL OF OUTGOING VEHICLE FOR TRACKING OF MATERIAL INVENTORY AND CREATION OF INVOICE TO VENDOR

RESIDENTIAL CUSTOMERS - INPUT RESIDENT INFORMATION (LICENSE NUMBER, PHOTO, ETC.) AT SCALE MOUNTED KIOSK TO LOG OUT OF THE SITE. SCALE TO COMMUNICATE WEIGHT / MATERIAL OF OUTGOING VEHICLE FOR CREATION OF INVOICE TO RESIDENT.

**CAMERAS / SITE LIGHTING**

CAMERAS TO OPERATE 24 HOURS/7 DAYS AND/OR CONTROLLED FROM CITY OF ANN ARBOR MARF FACILITY AT THE SITE.

LIGHTING TO BE CONTROLLED BY PHOTOCELL DURING BUSINESS HOURS AND CONTROLLED BY MOTION DETECTORS DURING NON-BUSINESS HOURS.

THE FOLLOWING ITEMS ARE TO BE PURCHASED BY:  
THE CONTRACTOR FROM PARADIGMSOFTWARE LLC.

CONTACT INFORMATION  
CHERYL R. JOHNSON  
BUSINESS DEVELOPMENT SPECIALIST  
OFFICE 410-329-1300 OPTION 3  
CELL 443-834-6731

**BILL OF MATERIALS**

QTY	UM	ITEM/DESCRIPTION
2	LN	WeighStation Program License
1	EA	CompuWeigh License
1	FF	Insufficient Funds/Split Payments Module
1	FF	Alerts/ Rules Module
1	FF	Software Discount
1	FF	MSMQ Module (1-5 lanes)
2	LN	Unattended Module - (Includes RF and Lights Module)
2	LN	Scale Monitoring Module
2	LN	Video/Picture Module
2	LN	Driver's License Scanning Module - (Customer wants to scan the address and store with the t transaction. Customer does not want the Driver's License number stored.)
4	EA	Kiosk Enclosure (w/heater, fan, exhaust & thermostat)
4	EA	LCD Display - (Color 1550 NIT Direct Sun Readable)
4	EA	Kiosk Thermal Receipt Printer
2	EA	RF Junction Box
2	EA	4-port Extended Temperature Serial Server (Perle)
2	EA	Case Kiosk Thermal Receipt Paper (8 Rolls)
2	EA	RF Reader - (In and outbound scale for Commercial customers)
250	EA	RF Window Sticker (eGo Plus)
1	EA	Intercom Master (IP) - (Includes Master Station, Sub-Station Adapter and Transformer)
4	EA	Intercom Remote Horn/Station (IP) - (Includes Horn and Push Button)
2	EA	Barcode Scanner (in enclosure to be attached to unattended enclosure) - (To read Driver's License)
4	EA	ISS Dome Camera - (P327 LVE DN Dome, IK10 Out VF 3.5-10 MM Built-In IR 5MP@30FPS W/WDR - customer must provide POE switch)
5	DAYS	On-Site Install/Training - (during normal PSLLC business hours (8 hours) (2 Installation Specialists)
40	HOURS	Remote Install/Training -Implementation - (during normal PSLLC

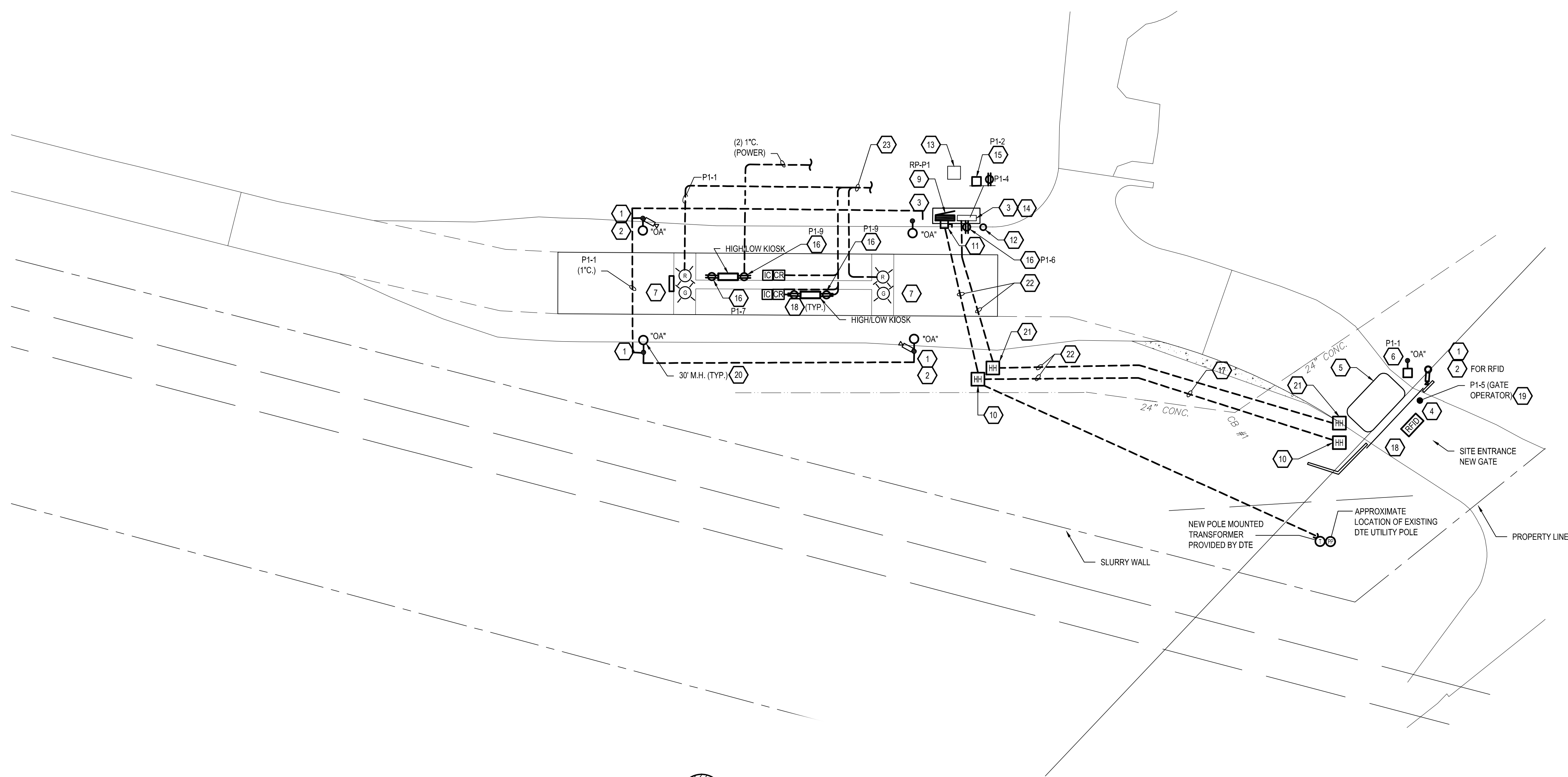
**NOTES:**

- ELECTRICAL CONTRACT RESPONSIBLE FOR ALL WIRING, ELECTRICAL, TRENCHING, CONDUIT, BOLLARDS AND MOUNTING UNLESS OTHERWISE NOTED. PSLLC WILL CONFIGURE THE HARDWARE TO WORK WITH THE SOFTWARE.
- CITY OF ANN ARBOR TO PROVIDE WRITTEN BUSINESS SPECIFICATIONS REGARDING PROCESSING OF THE RESIDENTIAL TRANSACTIONS.

**NEW WORK KEYED NOTES:**  
(APPLICABLE THIS SHEET ONLY)

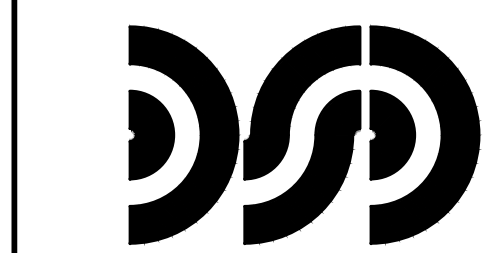
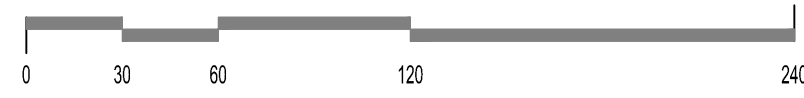
- POLE-MOUNTED LED LUMINAIRE, REFER TO SHEETS E-004 FOR LIGHTING FIXTURE SCHEDULE AND MOUNTING DETAIL ON SHEET E-005.
- 4-WAY CAMERA PROVIDED BY CITY, INSTALLED ON LIGHTING POLE AND AIMED BY ELECTRICAL CONTRACTOR, MOUNT AT 18'-0" AFF. REFER TO TYPICAL MOUNTING DETAIL ON SHEET E-005.
- 4W x 6H x 18D COMMUNICATION CABINET, FULLY HINGED, NEMA 4 BY HOFFMAN OR EQUIVALENT. FOR SCALE, CAMERA, AND GATE CONTROL, REFER TO MOUNTING DETAIL ON SHEET E-005.
- RFID PROVIDED BY CITY AT OUTSIDE GATE. CONTRACTOR SHALL INSTALL GATE, GATE CONTROLLER, AND MOUNT FOR THE RFID READER. THE REMAINDER OF WORK WILL BE HANDLED BY CITY OF ANN ARBOR.
- PROVIDE LOOP SENSOR TIED TO GATE CONTROLLER ON THE OUTBOUND SIDE.
- GATE CONTROLLER PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- RED AND GREEN LIGHTS AND WEIGHT INDICATOR AT BOTH ENDS OF SCALE TO INDICATE TO STOP OR PROCEED. SHALL BE EAGLE TRAFFIC CONTROL SYSTEMS SG POLYCARBONATE VEHICLE SIGNAL HOUSINGS IN YELLOW, PELCO ALUMINUM SLIP FITTER ASSEMBLIES, WITH DIALIGHT XL15 8" LED LIGHTS, OR EQUIVALENT.
- INTERCOM/CARD READER SYSTEM PROVIDED BY CITY AND INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO MOUNTING DETAIL ON SHEET E-005.
- ELECTRICAL PANELBOARD, REFER TO MOUNTING DETAIL, SCHEDULE AND ONE-LINE DIAGRAM ON SHEET E-005.
- ELECTRICAL HAND-HOLE, REFER TO MOUNTING DETAIL ON SHEET E-004.
- SERVICE DISCONNECT, REFER TO ONE-LINE DIAGRAM ON SHEET E-005.
- BOLLARD, REFER TO DETAIL ON SHEET E-4 FOR REQUIREMENTS.
- PROVIDE GROUND LOOP/GROUND RODS. REFER TO DETAIL ON SHEET E-005.
- PROVIDE 2L X 1/4"W COPPER BUS AND INSTALL INSIDE CABINET OFFSET FROM CABINET AND ROUTE GROUND WIRE PER DETAIL ON SHEET E-005.
- PROVIDE STRIP HEATER ON BOTH SIDES OF CABINET (INTERIOR).
- WEATHER-PROOF, GFI RECEPTACLE OUTLET, MOUNT ON CABINET EXTERIOR WITH HEAVY DUTY IN-USE COVER PLATE.
- 2 #8 + 1 #8 GRD TO LIGHTING POLE AND 2 #8 + 1 #8 GRD TO GATE OPERATOR.
- ALL ACCESS CONTROL EQUIPMENT PROVIDED BY CITY OF ANN ARBOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
- GATE SHALL BE LIFT MASTER ELITE SERIES, INSTALLED BY ELECTRICAL CONTRACTOR.
- 30' MOUNTING HEIGHT TOTAL WITH 27'-6" POLE AND 2'-6" CONCRETE BASE.
- COMMUNICATION HANDHOLD, REFER TO MOUNTING DETAIL ON SHEET E-004.
- (2) 2" C. FOR COMMUNICATION CABLES, (RFID, ETC.) AND (1) 2" C. FOR POWER AND (1) 2" C. SPARE.
- (5) 1" C. FOR COMMUNICATION AND (1) 1" C. SPARE. COORDINATE ACTUAL QUANTITIES WITH SCALE AND KIOSK SUPPLIERS. QUANTITIES ARE ASSUMED FOR BIDDING PURPOSES. ROUTE CONDUITS TO COMMUNICATION CABINET.

**LANDFILL (CLOSED)**



**PARTIAL ELECTRICAL SITE PLAN**

SCALE: 1" = 30'-0"



**DiClemente Siegel Design Inc.**  
Engineering and Architecture

28105 Greenfield Rd Southfield, MI 48076-2046  
248.569.1430 Fax: 248.569.0096  
Email: mkg@dsdonline.com www.dsdonline.com

**CITY OF ANN ARBOR  
ANN ARBOR LANDFILL  
TRUCK SCALE  
ANN ARBOR, MICHIGAN**

**PARTIAL  
ELECTRICAL SITE  
PLAN**

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ISSUED FOR	DATE
CLIENT REVIEW	03-25-19
BIDS	04-03-19
REVISED PLANS	03-03-2020

**811** 3 FULL WORKING DAYS BEFORE YOU DIG CALL  
Know what's below  
Call before you dig  
MISS DIG System, Inc.  
1-800-482-7171 www.missdig.net  
(TOLL FREE)

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PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL M-I-S-D-I-G

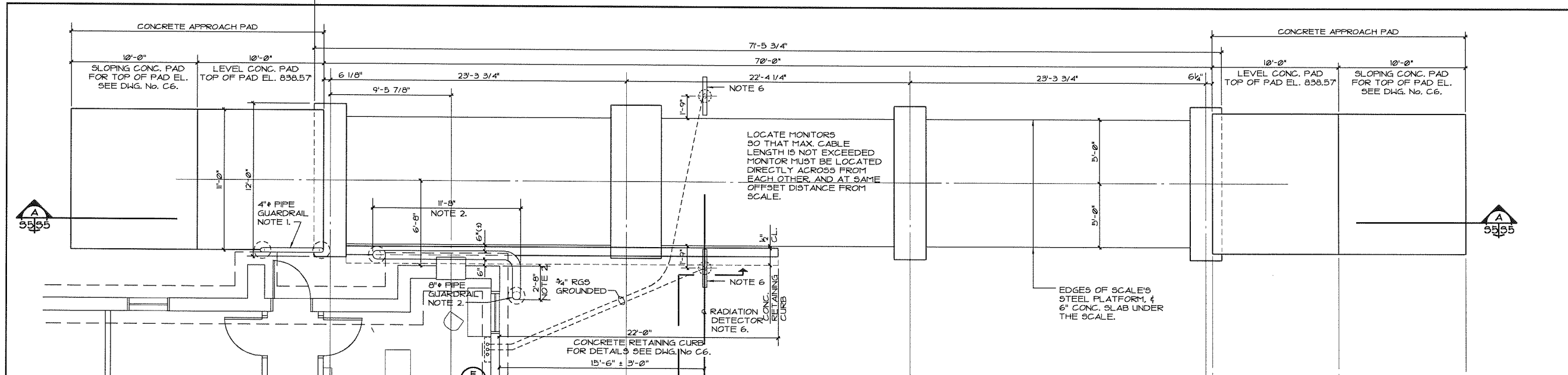
ANY INFORMATION OR DATA ON THIS DRAWING IS NOT INTENDED TO BE SUITABLE FOR REUSE BY ANY PERSON, FIRM OR CORPORATION OR ANY OTHERS ON EXTENSIONS OF THIS PROJECT OR FOR ANY USE ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION AND ADAPTATION BY THE SURVEYOR OR ENGINEER FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT THE USERS SOLE RISK AND WITHOUT LIABILITY OF LEGAL EXPOSURE TO THE SURVEYOR OR ENGINEER.

DESIGNER:	SMD
DRAWN:	DSS / TCJ
PM / PIC:	JSR / SM
CHECKED:	
ACAD FILE:	18-1305.00-E-003
PROJECT No:	18-1305.00

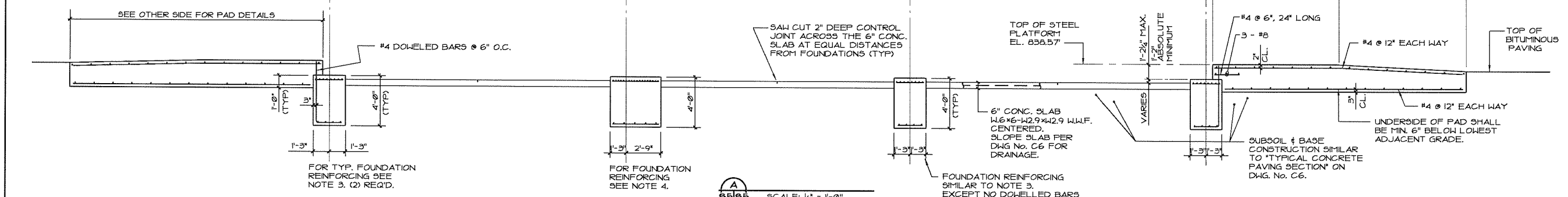
**E-003**





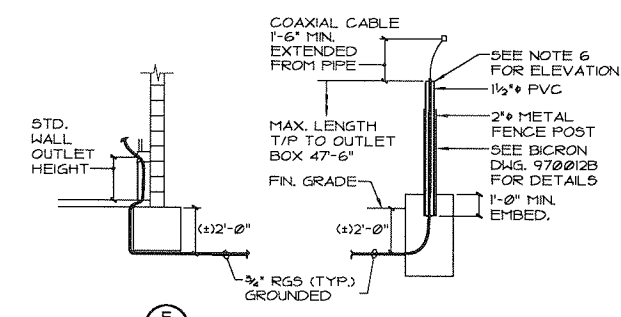


**PLAN**  
SCALE: 1/4" = 1'-0"

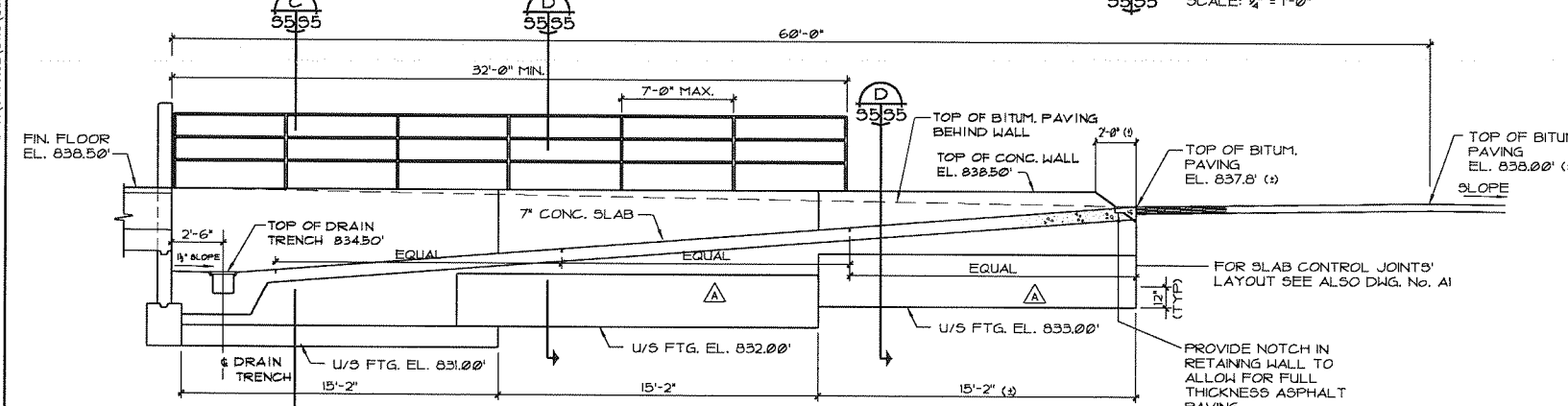


**A-A**  
SCALE: 1/4" = 1'-0"

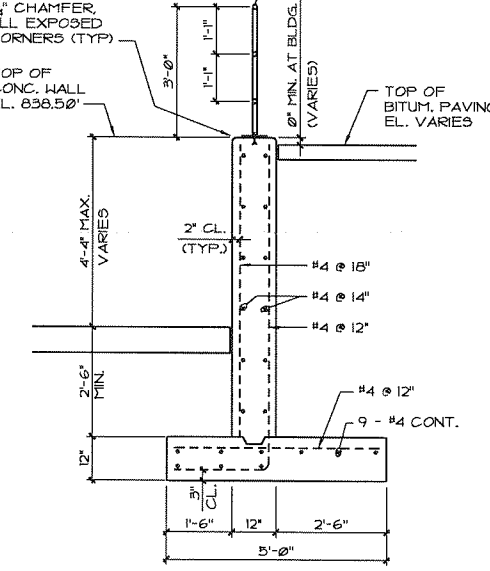
- NOTES:**
- INSTALL 4" GUARDRAIL FIRST: BEFORE POURING THE FOUNDATION PAD, AND THE 20'-0" LONG APPROACH PAD. STOP GUARDRAIL POST CONCRETE BASE AT UNDERSIDE OF THE APPROACH PAD.
  - INSTALL 8" GUARDRAIL FIRST: BEFORE POURING THE CONCRETE RETAINING CURB, AND THE 6" SLAB. STOP ONE GUARDRAIL POST CONCRETE BASE AT UNDERSIDE OF THE 6" CONCRETE SLAB, THE OTHER BASE IS TYPICAL. POSITION GUARDRAIL POSTS WITH EQUAL CLEAR DISTANCES FROM THE TRENCHED WALL FOOTINGS. THE DIMENSIONS SHOWN ON PLAN ARE OUT-TO-OUT STEEL PIPE DIMENSIONS.
  - TOP: 2" CLEAR, #4 @ 12" SHORT BARS, 8 - #6 LONG BARS  
BOTTOM: 3" CLEAR, #4 @ 6" DOWELLED BARS, 4 - #6 LONG BARS
  - TOP: 2" CLEAR, #4 @ 12" SHORT BARS, 13 - #6 LONG BARS  
BOTTOM: 3" CLEAR, #4 @ 6" SHORT BARS, 5 - #6 LONG BARS
  - THE CONTRACTOR SHALL WORK THIS DRAWING WITH FAIRBANKS SCALES DRAWING No. D140716, AND BICRON CORPORATION DRAINING No. 9700128.
  - PROVIDE AND INSTALL TWO POSTS FOR BICRON MONITOR LFM-1 PER MANUFACTURER'S INSTALLATION SPECIFICATIONS. PROVIDE MINIMUM 12" CONCRETE BASE FOR EACH POST EXTENDING 3'-6" BELOW FINISHED ADJACENT GRADE AND SLOPE TOP 1" UP TOWARD THE ENCASED POST. THE RADIATION MONITORS CENTERLINE ON THE POSTS SHALL BE AT ELEVATION 846.57.



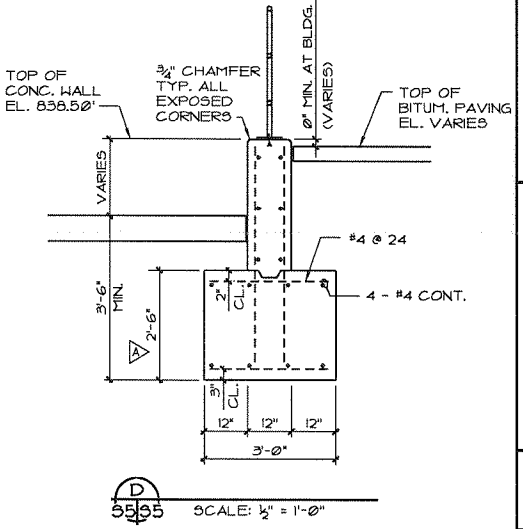
**E-E**  
SCALE: 1/4" = 1'-0"



**B-B**  
SCALE: 1/4" = 1'-0"



**C-C**  
SCALE: 1/4" = 1'-0"



**D-D**  
SCALE: 1/4" = 1'-0"

DATE: 05-28-1997 11:54 SCALE: 1:48 NAME: J:\30653\02\DWG\3065355A

AS-BUILT	05-16-97	CVA
FOOTING SIZE	02-23-95	LAM
REVISION NUMBER	DESCRIPTION	DATE
SEAL:		

**RESOURCE RECOVERY SYSTEMS INC.**  
35 Plains Road  
Essex, Connecticut 06426

**CUMMINS & BARNARD INC.**  
CONSULTING ENGINEERS  
SINCE 1932  
JOB No. 3053  
2058 SOUTH STATE ST.  
ANN ARBOR, MI 48104-4894  
(313) 761-9130 FAX: (313) 761-9881

**CITY OF ANN ARBOR MATERIAL RECOVERY & TRANSFER STATION**  
CITY OF ANN ARBOR  
PROJECT NO. 3013

**SCALE FOUNDATION & TRUCK DOCK RETAINING WALL**

DRAWN BY: EAD / W/N	CONTRACT NUMBER:
CHECKED BY: LAM	SHEET NO:
DATE: 12-01-94	DRAWING NUMBER: S5
SCALE: 1/4" = 1'-0"	REV. A

**FOR CONSTRUCTION**

"General Decision Number: MI20200074 01/03/2020

Superseded General Decision Number: MI20190074

State: Michigan

Construction Type: Heavy

County: Washtenaw County in Michigan.

Heavy, Includes Water, Sewer Lines and Excavation (Excludes Hazardous Waste Removal; Coal, Oil, Gas, Duct and other similar Pipeline Construction)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Modification Number	Publication Date
0	01/03/2020

CARP0687-006 06/01/2019

	Rates	Fringes
CARPENTER, Includes Form Work....	\$ 32.70	28.94

-----  
 ELEC0252-009 06/03/2019

	Rates	Fringes
ELECTRICIAN.....	\$ 45.78	24.33

-----  
 \* ENGI0325-019 09/01/2019

POWER EQUIPMENT OPERATORS: Underground Construction (Including Sewer)



	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 34.63	24.35
GROUP 2.....	\$ 29.90	24.35
GROUP 3.....	\$ 29.17	24.35
GROUP 4.....	\$ 28.60	24.35

## POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Backhoe/ Excavator, Boring Machine, Bulldozer, Crane, Grader/ Blade, Loader, Roller, Scraper, Trencher (over 8 ft. digging capacity)

GROUP 2: Trencher (8-ft digging capacity and smaller)

GROUP 3: Boom Truck (non-swinging, non- powered type boom)

GROUP 4: Broom/ Sweeper, Fork Truck, Tractor, Bobcat/ Skid Steer /Skid Loader

-----  
 ENGI0326-008 06/01/2019

## EXCLUDES UNDERGROUND CONSTRUCTION

	Rates	Fringes
OPERATOR: Power Equipment		
GROUP 1.....	\$ 41.89	24.45
GROUP 2.....	\$ 40.39	24.45
GROUP 3.....	\$ 38.89	24.45
GROUP 4.....	\$ 38.59	24.45
GROUP 5.....	\$ 37.77	24.45
GROUP 6.....	\$ 36.91	24.45
GROUP 7.....	\$ 35.94	24.45
GROUP 8.....	\$ 34.23	24.45
GROUP 9.....	\$ 25.89	24.45

FOOTNOTES: Tower cranes: to be paid the crane operator rate determined by the combined length of the mast and the boom.

## POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Crane with boom & jib or leads 400' or longer

GROUP 2: Crane with boom & jib or leads 300' or longer

GROUP 3: Crane with boom & jib or leads 220' or longer

GROUP 4: Crane with boom & jib or leads 140' or longer

GROUP 5: Crane with boom & jib or leads 120' or longer

GROUP 6: Regular crane operator

GROUP 7: Backhoe/Excavator, Bobcat/Skid Loader, Boring Machine, Broom/Sweeper, Bulldozer, Grader/Blade, Loader, Roller, Scraper, Tractor, Trencher

GROUP 8: Forklift

GROUP 9: Oiler

-----  
 \* IRON0025-006 06/01/2019

	Rates	Fringes
IRONWORKER		
Reinforcing.....	\$ 30.98	27.99
Structural.....	\$ 36.77	29.03

-----  
 LABO0334-009 06/01/2019

EXCLUDES OPEN CUT CONSTRUCTION

	Rates	Fringes
Landscape Laborer		
GROUP 1.....	\$ 20.75	7.10
GROUP 2.....	\$ 18.75	7.10

LANDSCAPE LABORER CLASSIFICATIONS

GROUP 1: Landscape specialist, including air, gas and diesel equipment operator, lawn sprinkler installer and skidsteer (or equivalent)

GROUP 2: Landscape laborer: small power tool operator, material mover, truck driver and lawn sprinkler installer tender

-----  
 LABO0334-018 09/01/2018

SCOPE OF WORK:

OPEN CUT CONSTRUCTION: Excavation of earth and sewer, utilities, and improvements, including underground piping/conduit (including inspection, cleaning, restoration, and relining)

	Rates	Fringes
LABORER		
(1) Common or General.....	\$ 23.75	12.85
(2) Mason Tender-		
Cement/Concrete.....	\$ 23.86	12.85
(4) Grade Checker.....	\$ 24.05	12.85
(5) Pipelayer.....	\$ 22.90	12.75
(524.20) Pipelayer.....	\$ 22.90	12.85
(7) Landscape.....	\$ 18.14	12.85

-----  
 LABO0499-020 08/01/2019

EXCLUDES OPEN CUT CONSTRUCTION

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 29.37	40.40
GROUP 2.....	\$ 29.58	40.40
GROUP 3.....	\$ 29.71	40.40

LABORER CLASSIFICATIONS

GROUP 1: Common or General; Grade Checker

GROUP 2: Mason Tender - Cement/Concrete

GROUP 3: Pipelayer

-----  
PAIN0022-005 07/01/2008

	Rates	Fringes
PAINTER		
Brush & Roller.....	\$ 25.06	14.75
Spray.....	\$ 25.86	14.75

-----  
PLAS0514-002 06/01/2018

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 31.47	13.81

-----  
PLUM0190-010 06/01/2019

	Rates	Fringes
PLUMBER.....	\$ 42.26	23.24

-----  
TEAM0007-006 06/01/2019

	Rates	Fringes
TRUCK DRIVER		
Dump Truck under 8 cu. yds.; Tractor Haul Truck....	\$ 27.15	.50 + a+b
Dump Truck, 8 cu. yds. and over.....	\$ 27.25	.50 + a+b
Lowboy/Semi-Trailer Truck...	\$ 27.40	.50 + a+b

FOOTNOTE:

- a. \$446.70 per week.  
b. \$67.00 daily.

-----  
SUMI2010-072 11/09/2010

	Rates	Fringes
TRUCK DRIVER: Off the Road Truck.....	\$ 20.82	3.69

-----  
WELDERS - Receive rate prescribed for craft performing  
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is

like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a

new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

---

#### WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage

payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION

"

## Landfill Scale and Entrance Improvements, ITB-4618

Pre-Bid Meeting Agenda  
February 26, 2020 at 10:00 am  
Wheeler Service Center

- I. Introductions
- II. Addendum Items
  - a. Question deadline by Monday, March 2, 2020 at 5:00 PM
  - b. Addendum #1 – Issued by Wednesday, March 4, 2020
- III. General
  - a. Project Overview
    - i. Installation of a floating mat foundation over the landfill
    - ii. Installation of two new 80' inbound and outbound scales
    - iii. Entrance Improvements including gate and intercom systems
    - iv. Integration of new scale systems
    - v. Previously Bid in Spring 2019. Changes in this bid include:
      - 1. Clarify spoils shall be disposed of at a licensed Type II landfill in the State of Michigan.”
      - 2. Added a fence specification
      - 3. Clarified City Provided Equipment.
      - 4. Identified signals at the scale
      - 5. Revise the handhole detail.
      - 6. Add model/spec for the gate controller.
      - 7. Added requirements for the guardrail along the edge of the scale and along the adjacent concrete ramp.
  - b. Standard Specifications and Detailed Specifications
    - i. Project Schedule
      - Starting Date – May 11, 2020
      - Completion Date – November 7, 2020 (180 days after notice to proceed)
      - Hours of work: 7:00 a.m. to 8:00 p.m. Monday thru Friday, Saturdays with permission
    - ii. Engineer's estimate – No Engineer's Estimate Provided
    - iii. Bid Forms
- IV. Construction
  - a. Floating mat construction
  - b. Scales with specified Paradigm System
    - i. If alternate scale management system is proposed, contractor shall utilize Bid Form 2 to propose the alternate and associated add/deduct.
    - ii. Integration and training of the scale management systems are the responsibility of the Contractor
  - c. Conduit for Fiber Optic Installation by City
  - d. Installation of a new sliding gate and minor fencing improvements
  - e. Removal of existing impervious areas north of the scale

- f. Removal of existing scale
- g. Maintenance of Site Traffic – Site traffic must be maintained at all times. Provide flaggers during business hours if route is limited to one lane.

V. Other Items

- a. Coordination with the City
  - i. Due to the integration with the City's security systems, the City will be performing the integration of the cameras and gate access equipment.
  - ii. Equipment to be provided by the City is identified in the specifications
  - iii. Fiber Optic installation and connections will also be performed by the City.
- b. Prevailing Wage – Will be actively enforced by the City
  - i. Heavy Wage Rate will apply
  - ii. Certified Payroll Required
  - iii. Wage Interviews will be Performed

VI. Questions

Contact Information:

Christina Gomes  
Recycling and Solid Waste Program Coordinator, Public Works  
Phone: (734) 794-6000  
E-mail: [cgomes@a2gov.org](mailto:cgomes@a2gov.org)



# Meeting Sign-In

Project: ITB# 4618 – Landfill Scale and Entrance Improvements

Date: 2/26/20

Facilitator: City of Ann Arbor

Time: 10:00 a.m.

Place: Wheeler Service Center, 4251 Stone School Road, Ann Arbor, MI

	Print Name	Organization	Title	Phone	Email
1.	Joe Rutkowski	Rauhon Electric	Superintendent	586-405-6046	Jrutkowski@rauhonelec.com
2.	Tim Kennihan	Cech Scales	Sales	810-543-0952	TKennihan@cech.com
3.	Josh Davis	Cech Scale	Sales Mgr	248-929-2025	JDavis@cech.com
4.	DUSTON KOPKE	ET MARCENZIG COMPANY	ESTIMATOR	734.761.5150	dk.kopke@marcenzigo.com
5.	KEVIN ADELMAN	FAIRBANICS SCALES	AREA SALES MGR	248-431-7823	KADELMAN@FAIRBANICS.COM
6.	STEVE GULLEY	IDEAL CONTRACTING	SR ESTIMATOR	313-843-8000	SGulley@IDEALCONTRACTING.COM
7.	Jayden Agin	J. Rank Electric, Inc.	Estimating Ass. stant	984-775-7393	jagin@jrank.com
8.					
9.					
10.					
11.					
12.					