

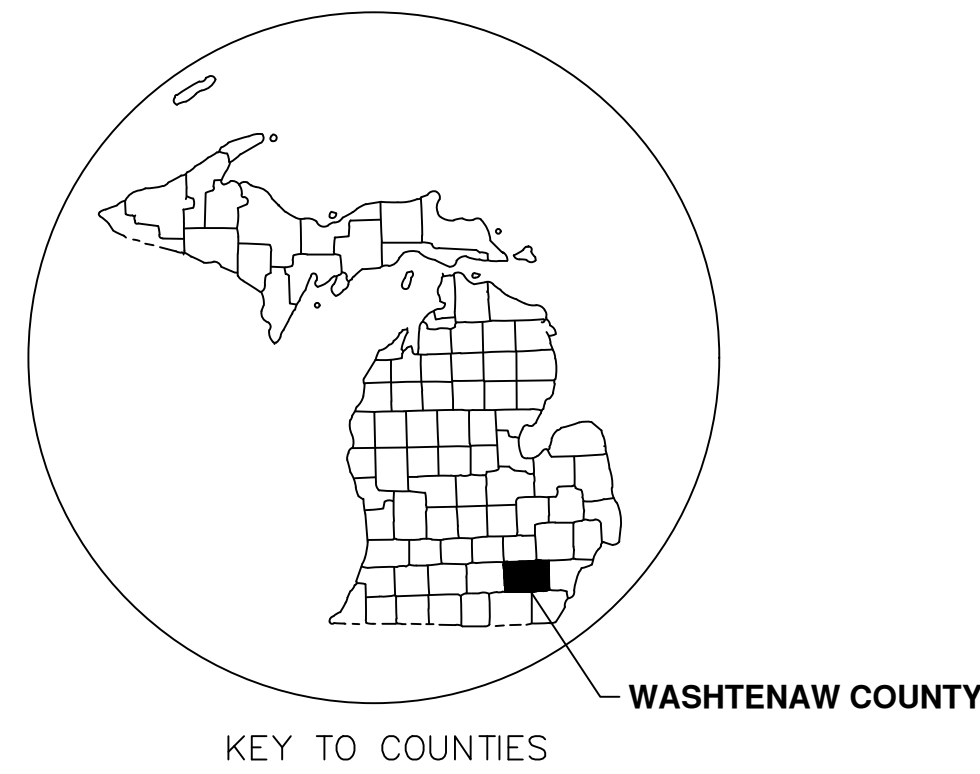
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# CITY OF ANN ARBOR

# LANDFILL SCALE AND ENTRANCE IMPROVEMENTS

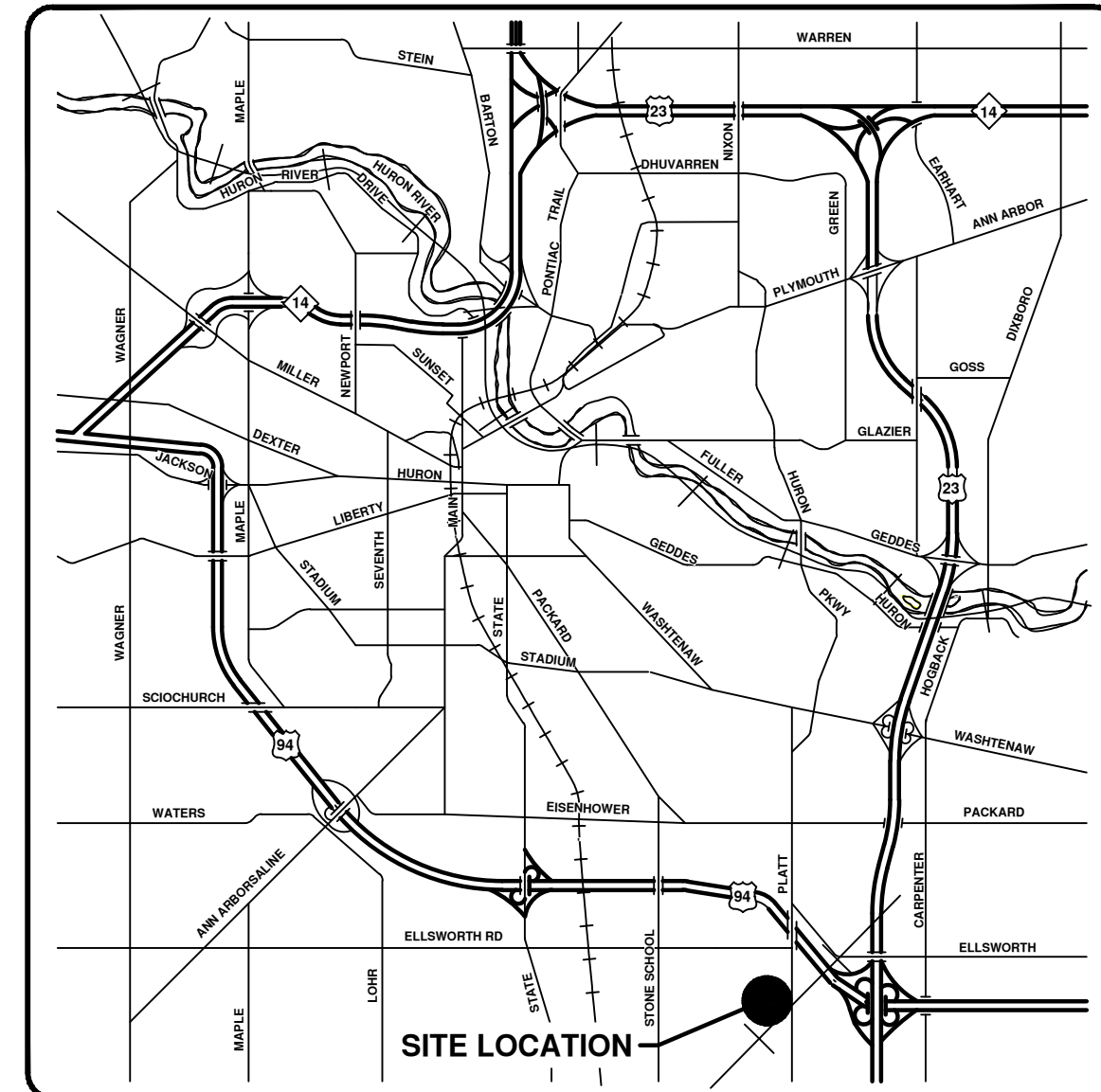
ITB No. 4575

## 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



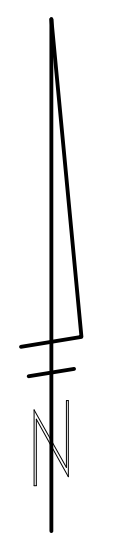
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03	ISSUE FOR BID	04/03/2019	TJS	TEW
02	CITY PLANNING REVIEW	01/10/2019	OSB	TEW
01	PRELIMINARY SITE PLANS OWNER REVIEW	12/07/2018	OSB	TEW
	DRAWN			CHECKED

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

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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**

03 ISSUE FOR BID 04/03/2019 TJS

02 CITY PLANNING REVIEW 01/10/2019 OSH

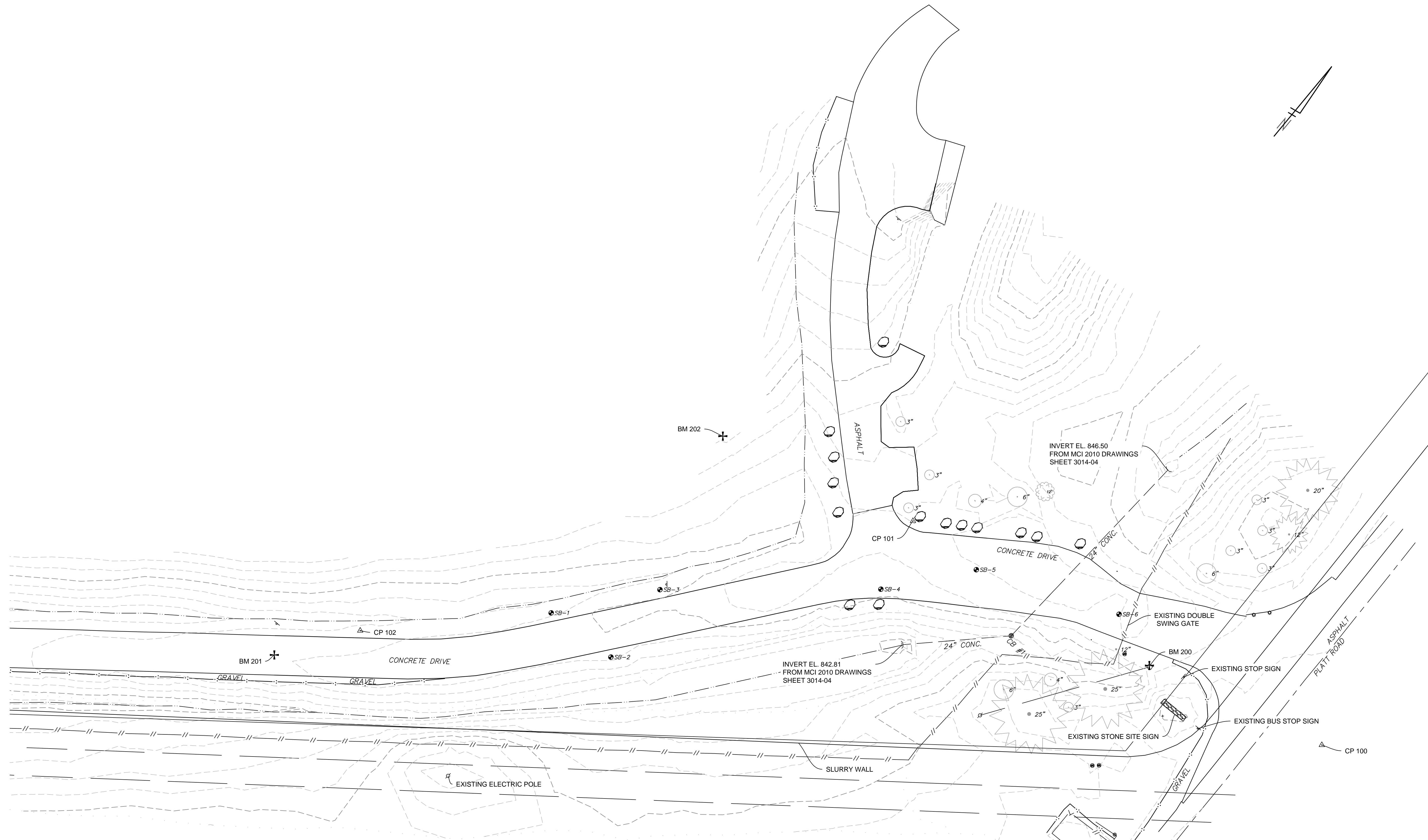
01 PRELIMINARY SITE PLANS OWNER REVIEW 12/07/2018 OSH

REV. DATE DESCRIPTION DRAWN CHECKED

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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.

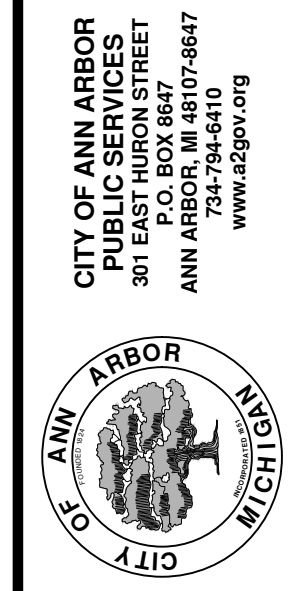
**BM 202**  
 ELEVATION = 857.09  
 SET CHISELED 'X' ON TOP OF CAP FOR VENT PIPE, 100 FEET NORTH OF THE CENTERLINE OF DRIVEWAY AND 300 FEET WEST OF THE CENTERLINE OF PLATT ROAD.

**EXISTING UTILITIES**

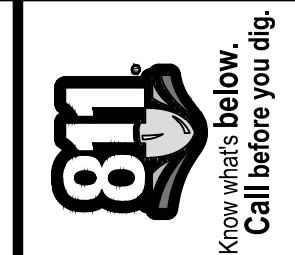
**CATCH BASIN #1 (CB #1)**  
 PRECAST WALLS  
 RIM = 847.98  
 24" RCP S.W  
 INVERT ELEV. = 843.08'  
 24" RCP N  
 INVERT ELEV. = 843.18'  
 5 FOOT SUMP

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

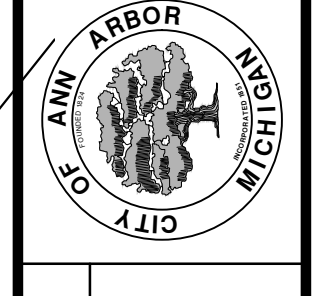
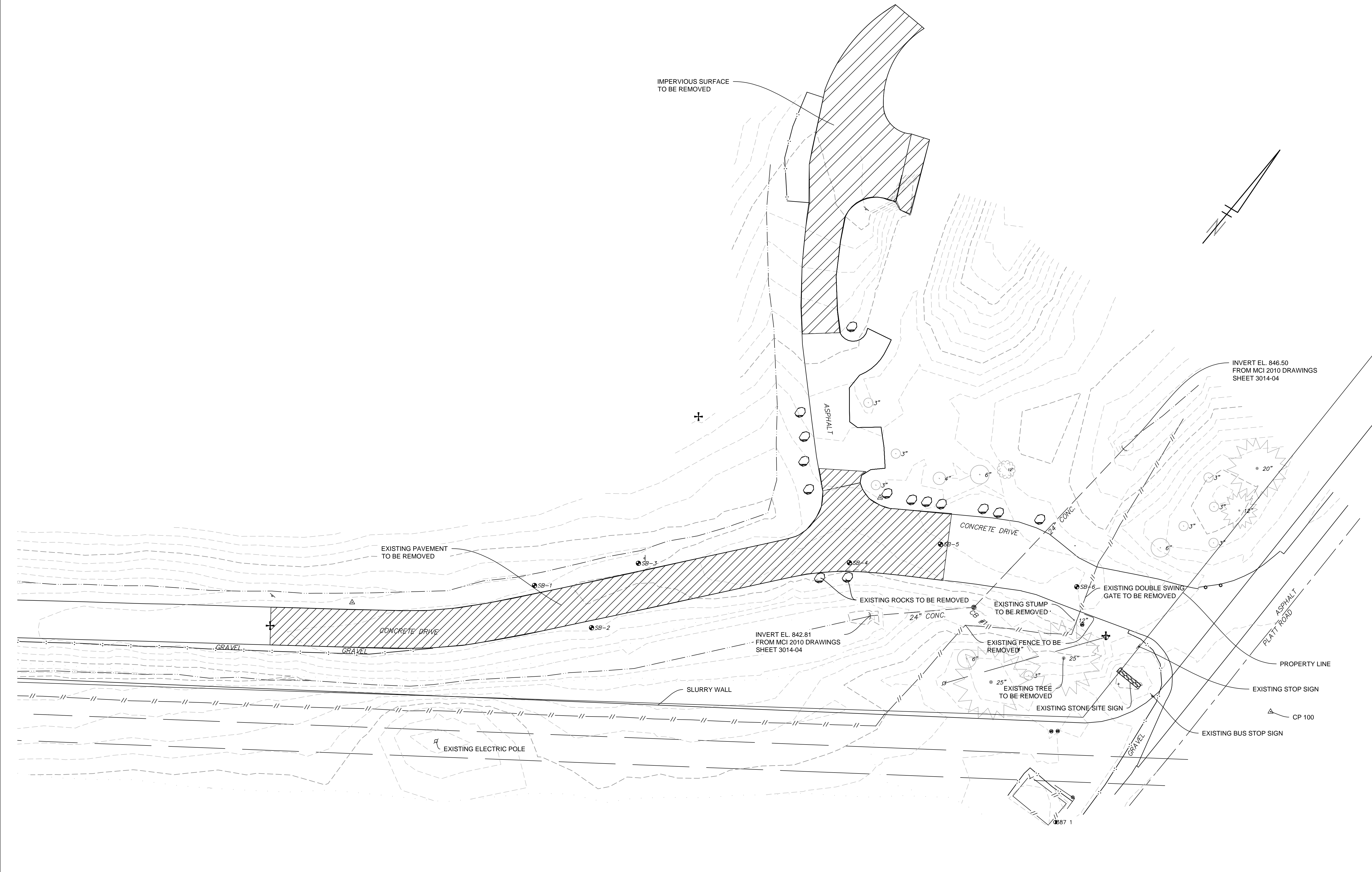
SCALE PLAN: 1" = 30'  
 DRAWING No. ANNA0035-03  
 SHEET No. C-03



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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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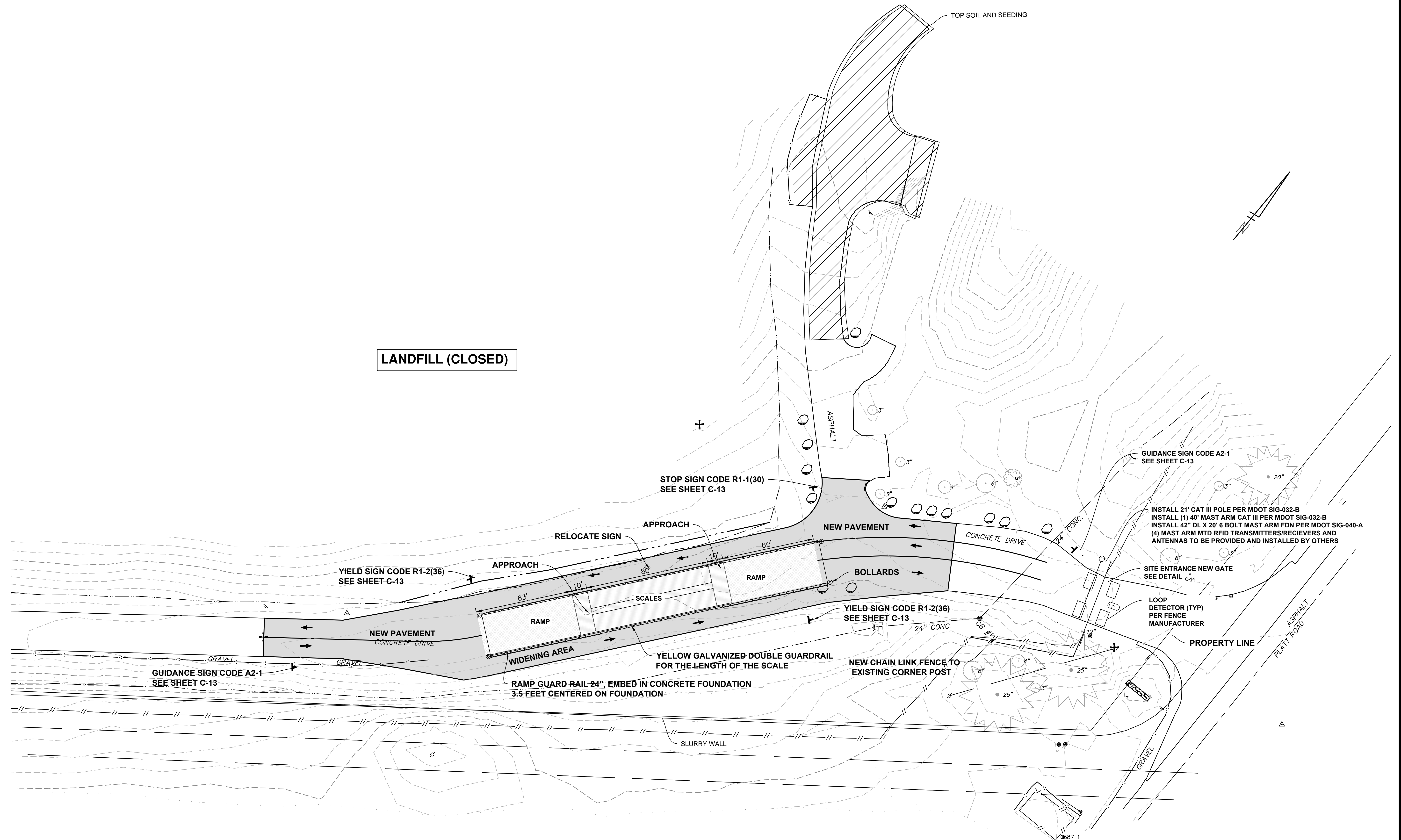


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03	ISSUE FOR BID	04/03/2019	TJS	TEW
02	CITY PLANNING REVIEW	01/10/2019	QSH	TEW
01	PRELIMINARY SITE PLANS OWNER REVIEW	12/07/2018	QSH	TEW



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**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

811  
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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

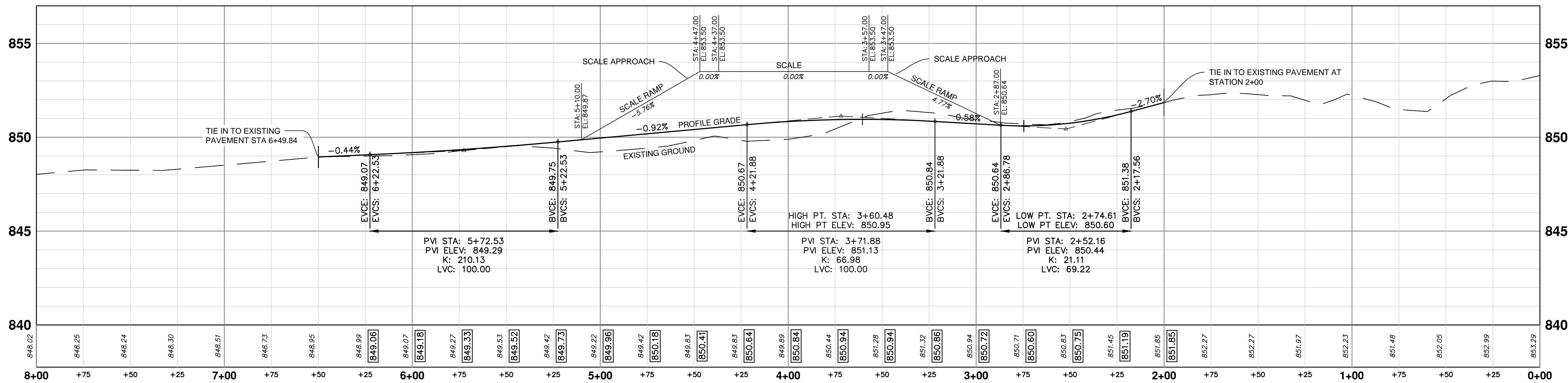
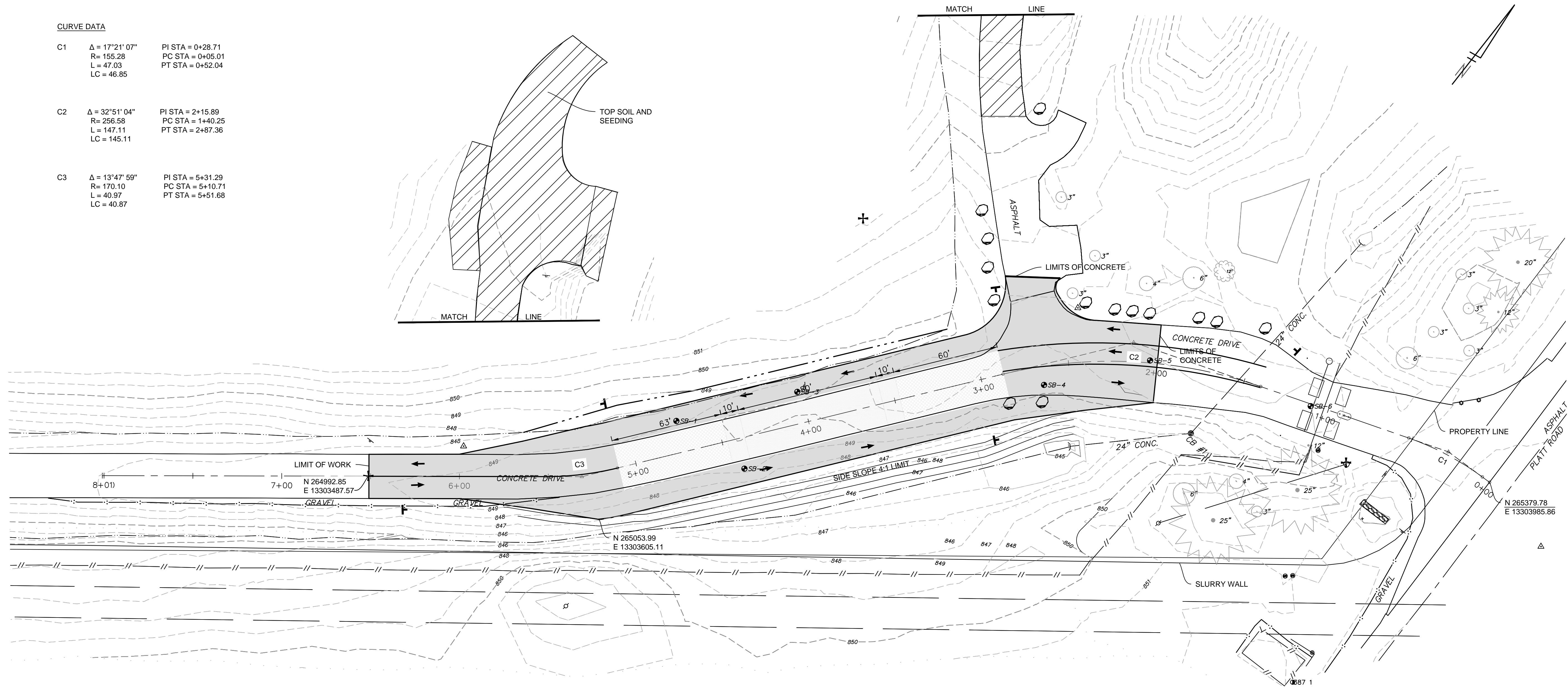
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CITY OF ANN ARBOR MICHIGAN

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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	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 PLAN: 1" = 30'  
 PROFILE: 1" = 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 734-794-6430. EXT. 42592

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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
- SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
- PRIOR DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE IF WATER TRUCKS AND/OR DUST PALLIATIVE AS REQUIRED.
- 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.
- 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.
- TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.
- 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**

- 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:**

- 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.
- 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.
- 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.

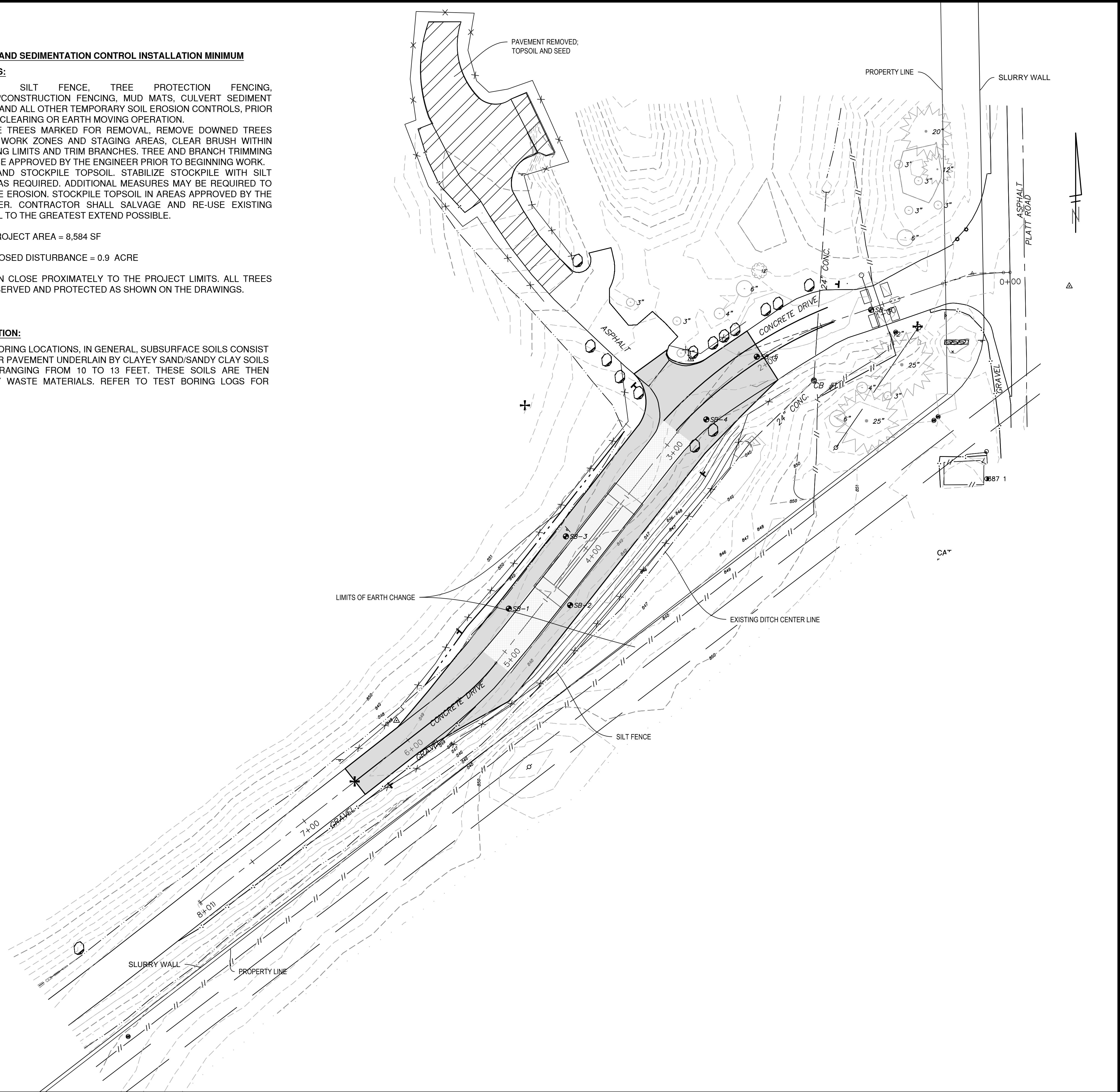
IMPERVIOUS PROJECT AREA = 8,584 SF

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							
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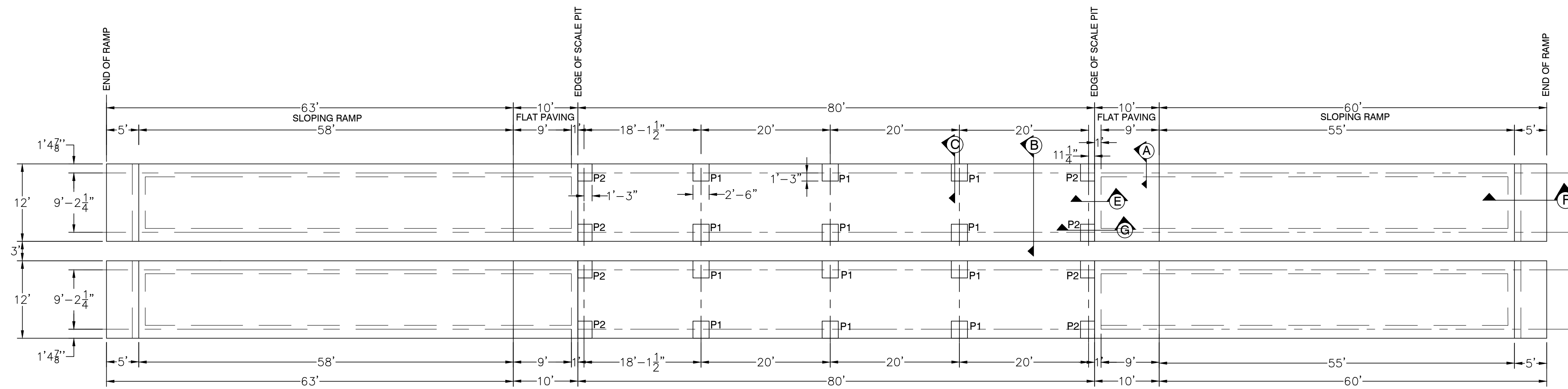
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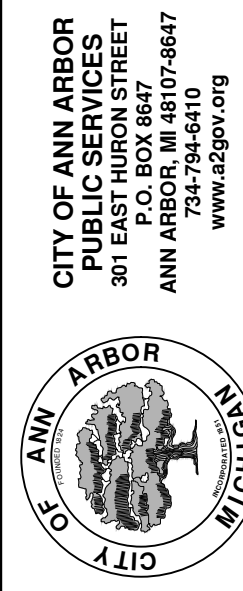
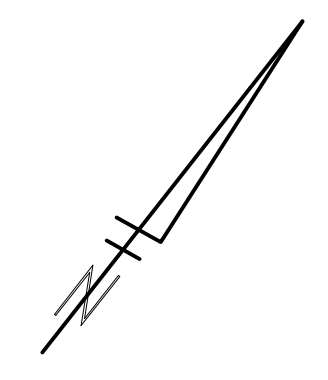


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**SCALE FOUNDATION PLAN**

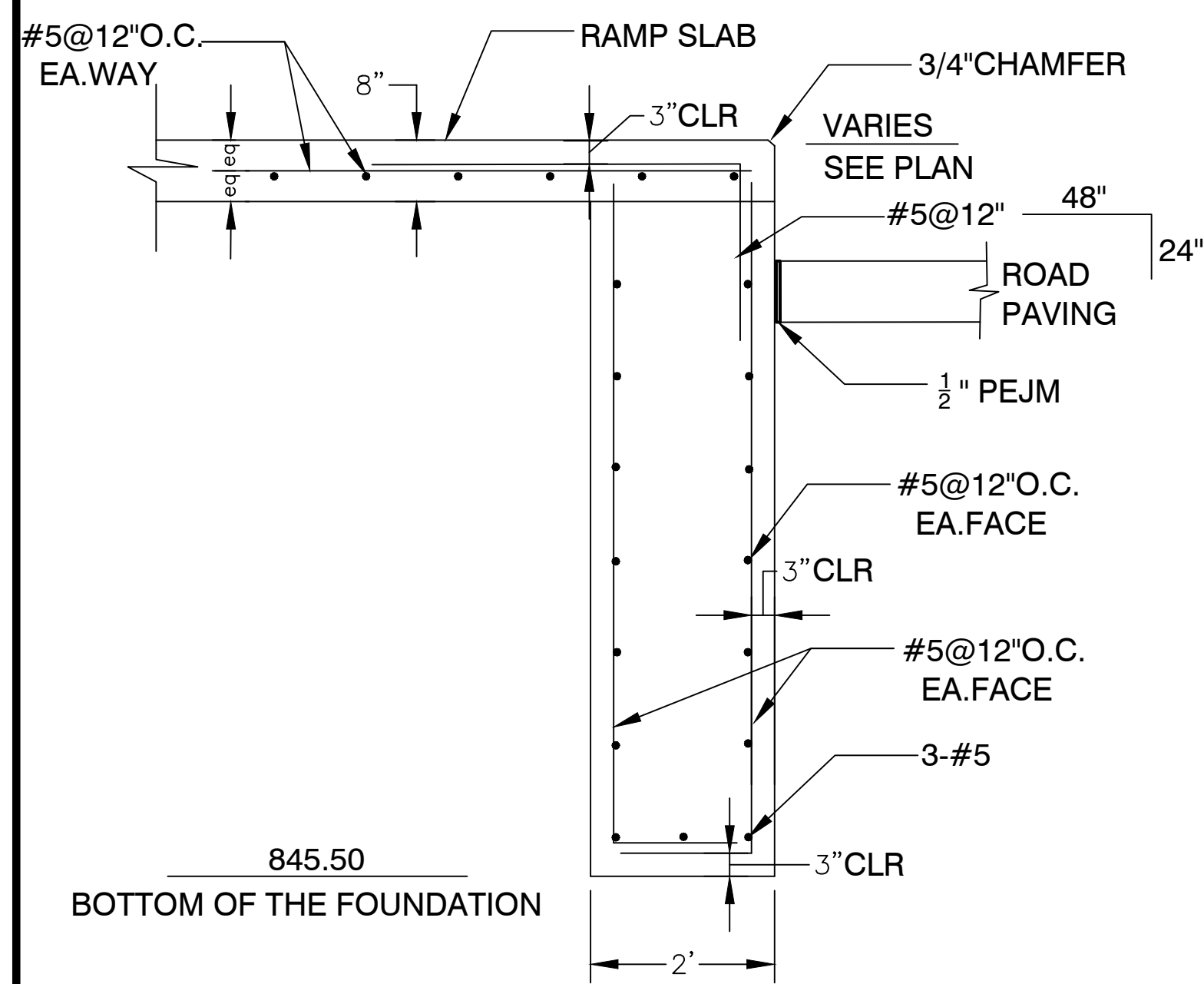
NOTE: SEE SHEET C-06 FOR FINISH GRADE ELEVATION



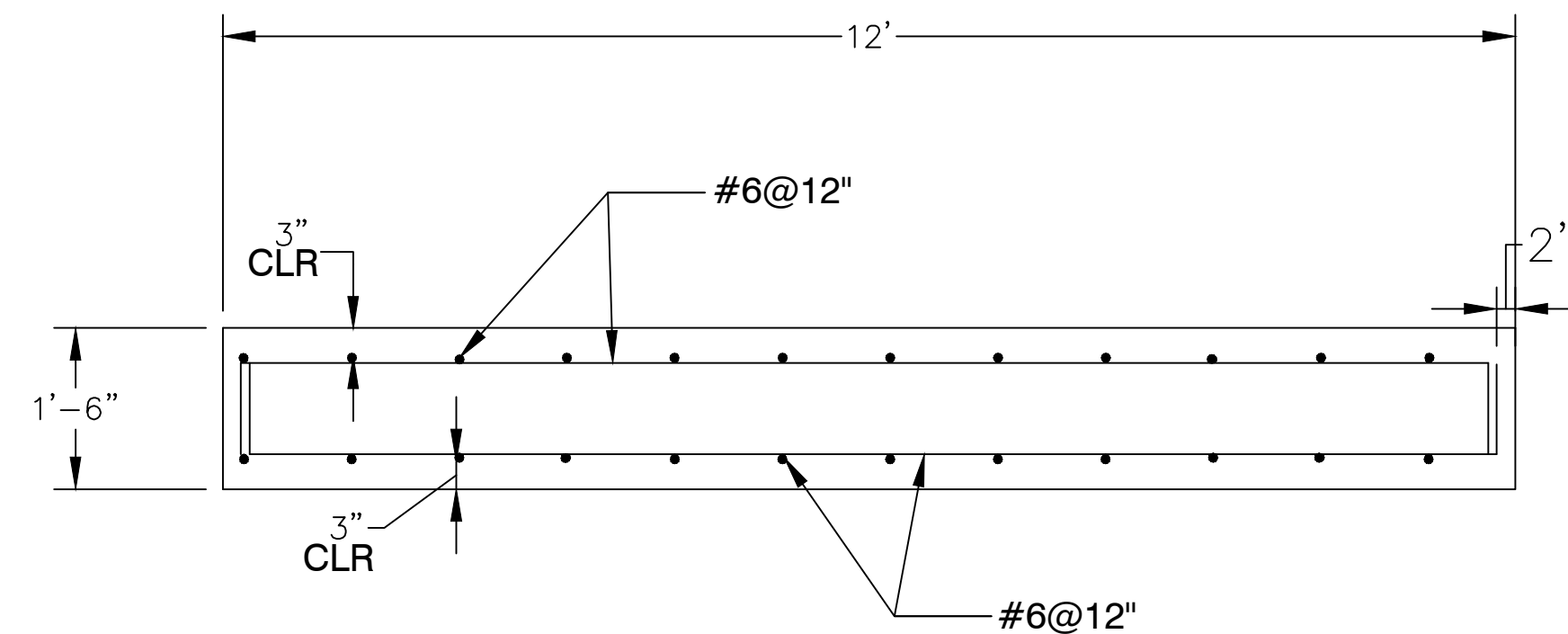
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02	CITY PLANNING REVIEW	01/10/2019	OSH	TEW
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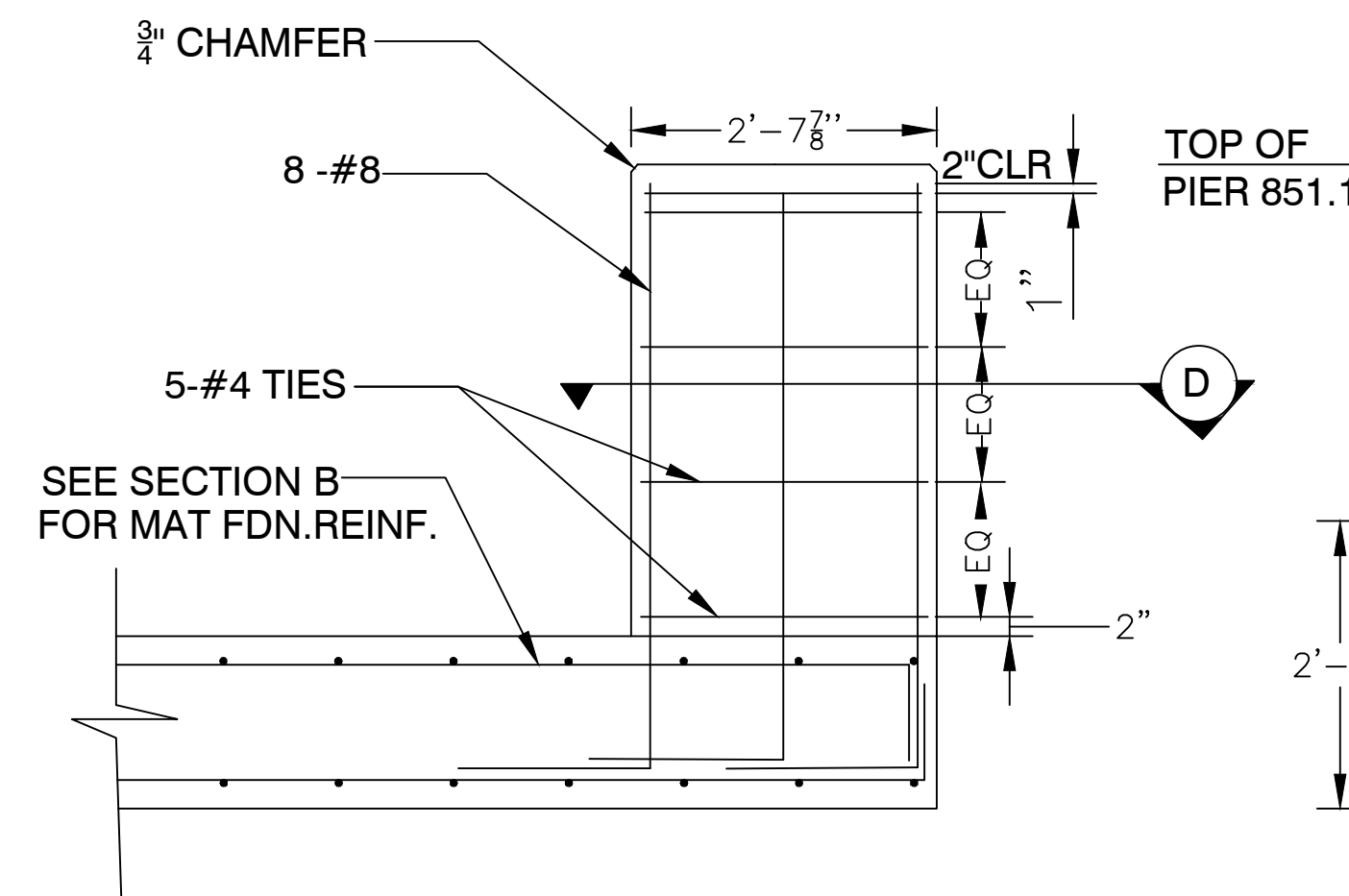




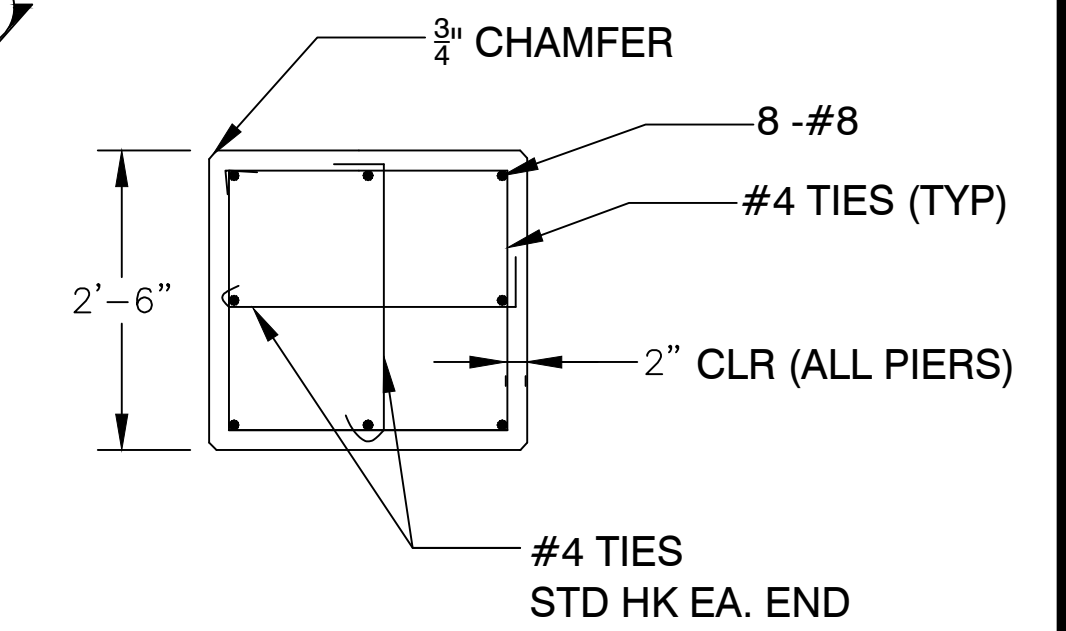
**A** RAMP SIDE FOUNDATION SECTION



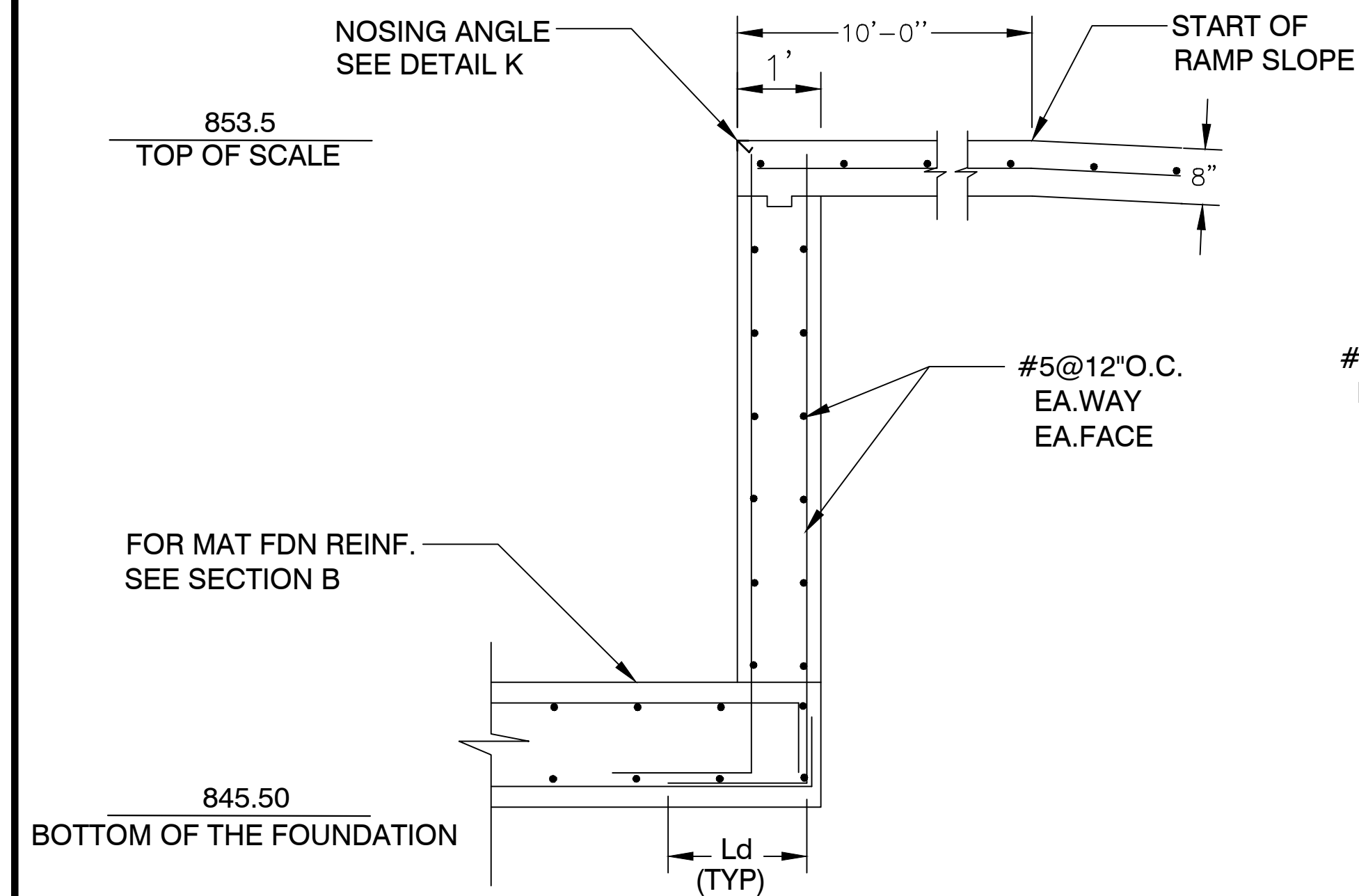
**B** MAT FOUNDATION SECTION



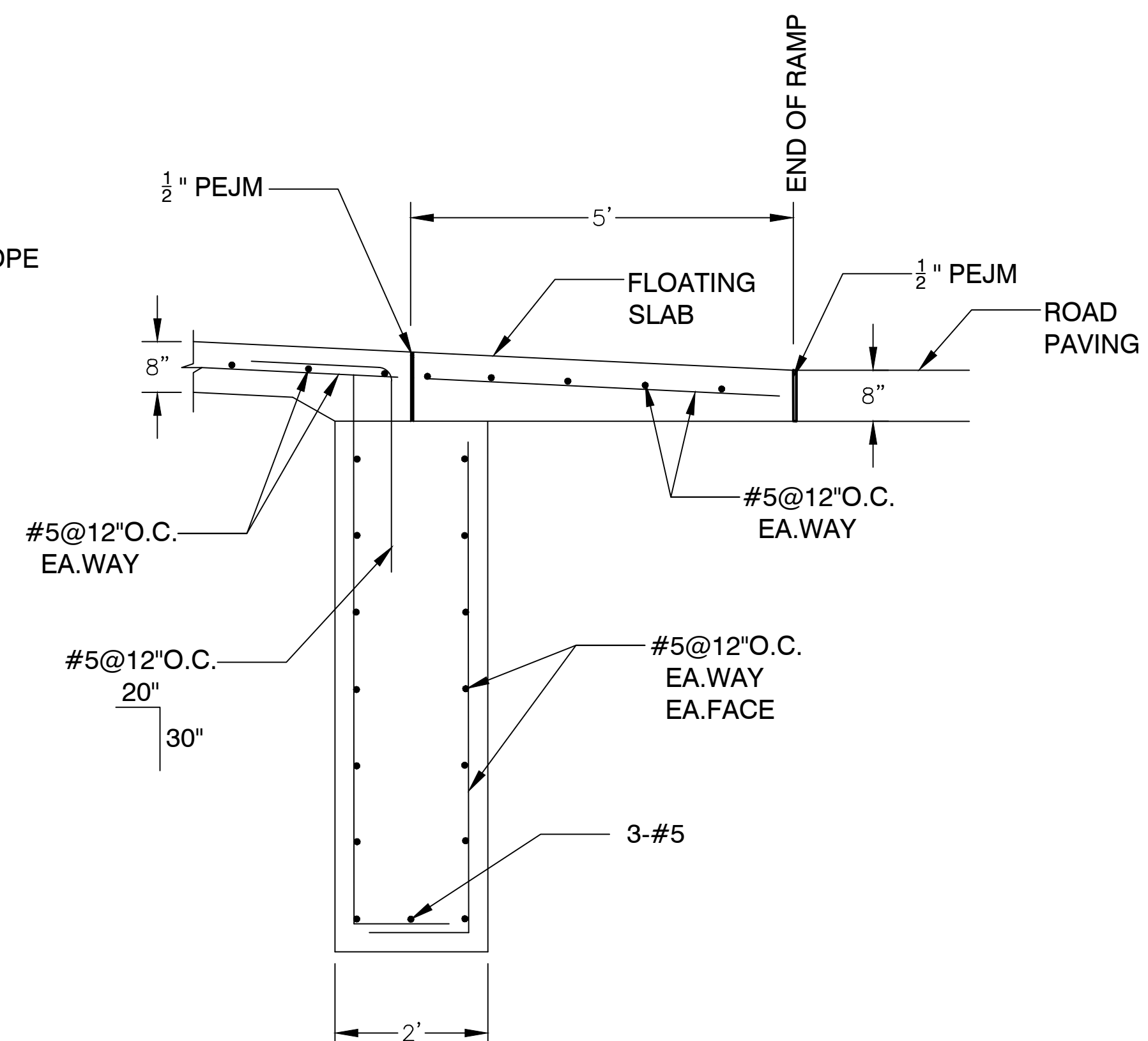
**C** PIER P1 DETAIL



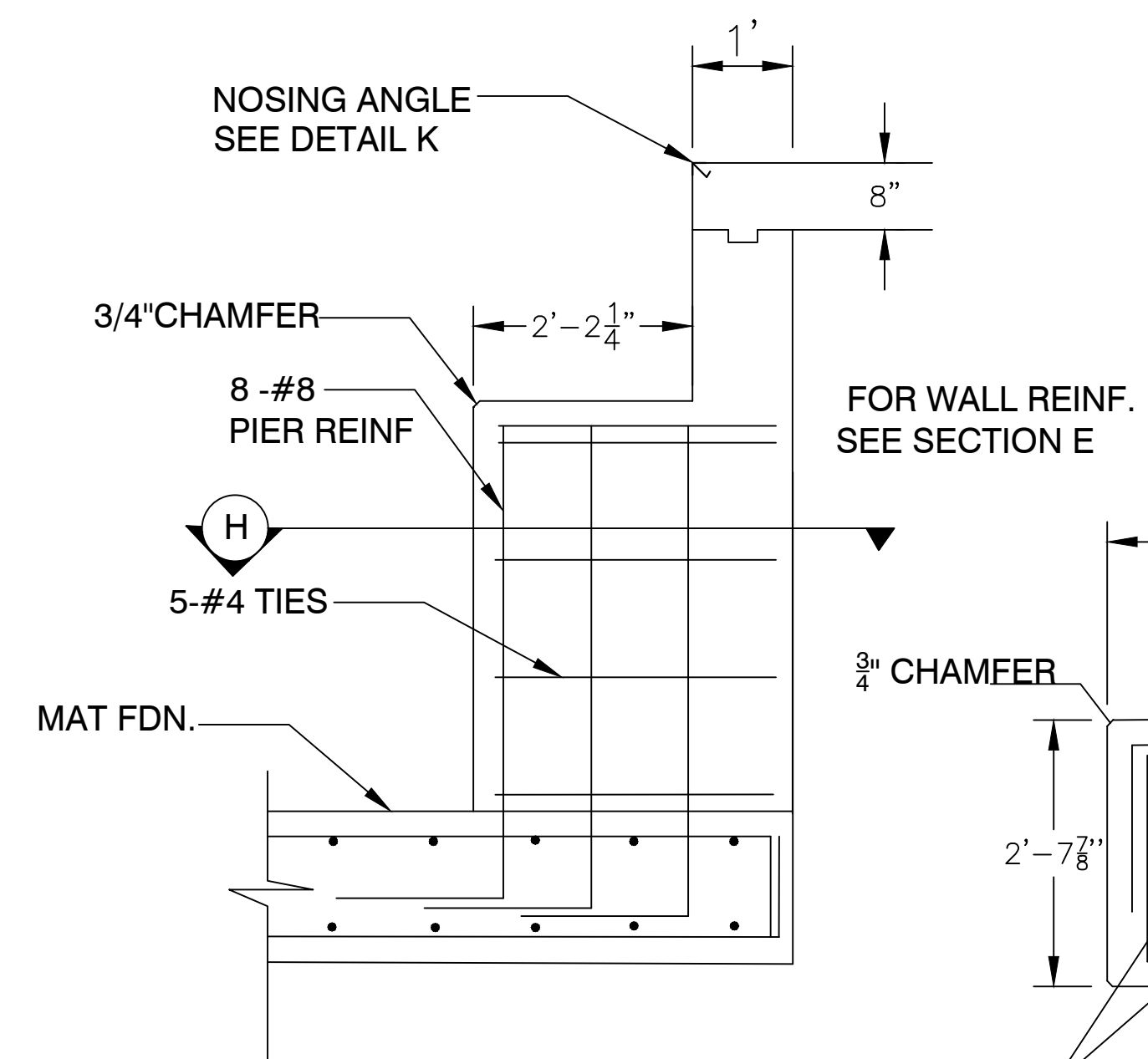
**D** PIER P1 SECTION



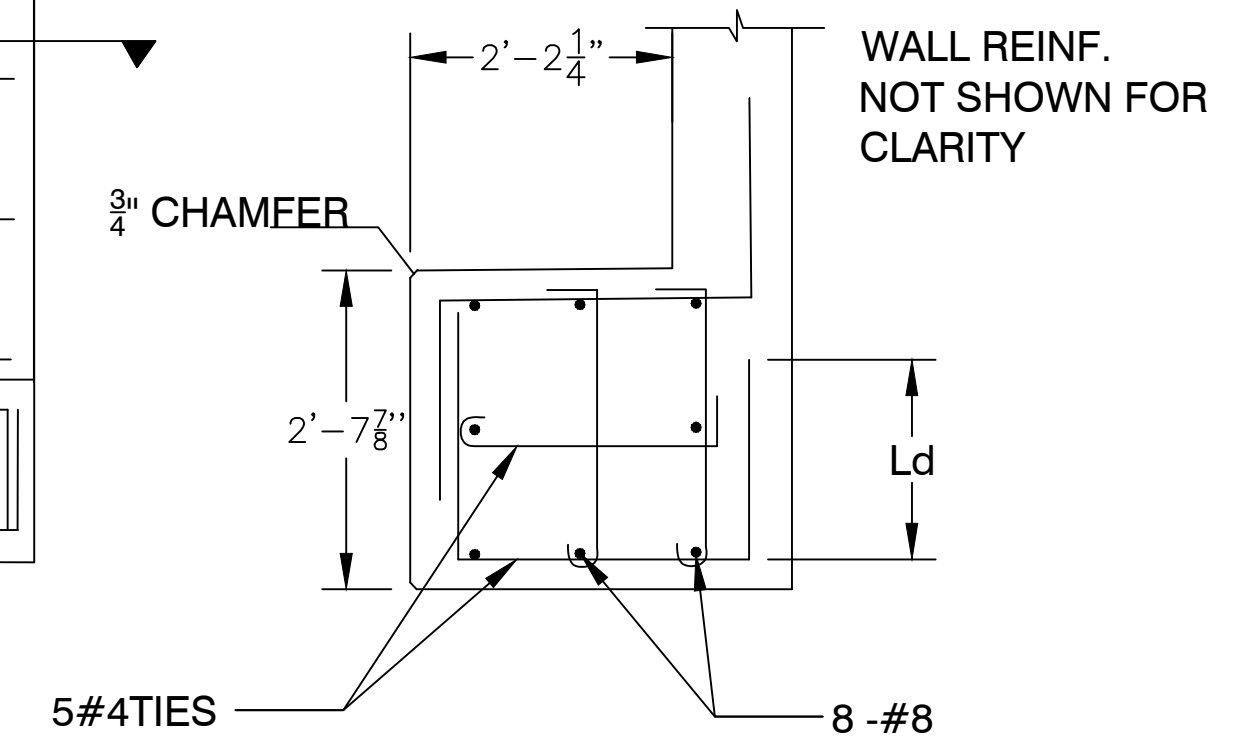
**E** TOP OF RAMP FOUNDATION SECTION



**F** END OF RAMP FOUNDATION SECTION



**G** PIER P2 DETAIL



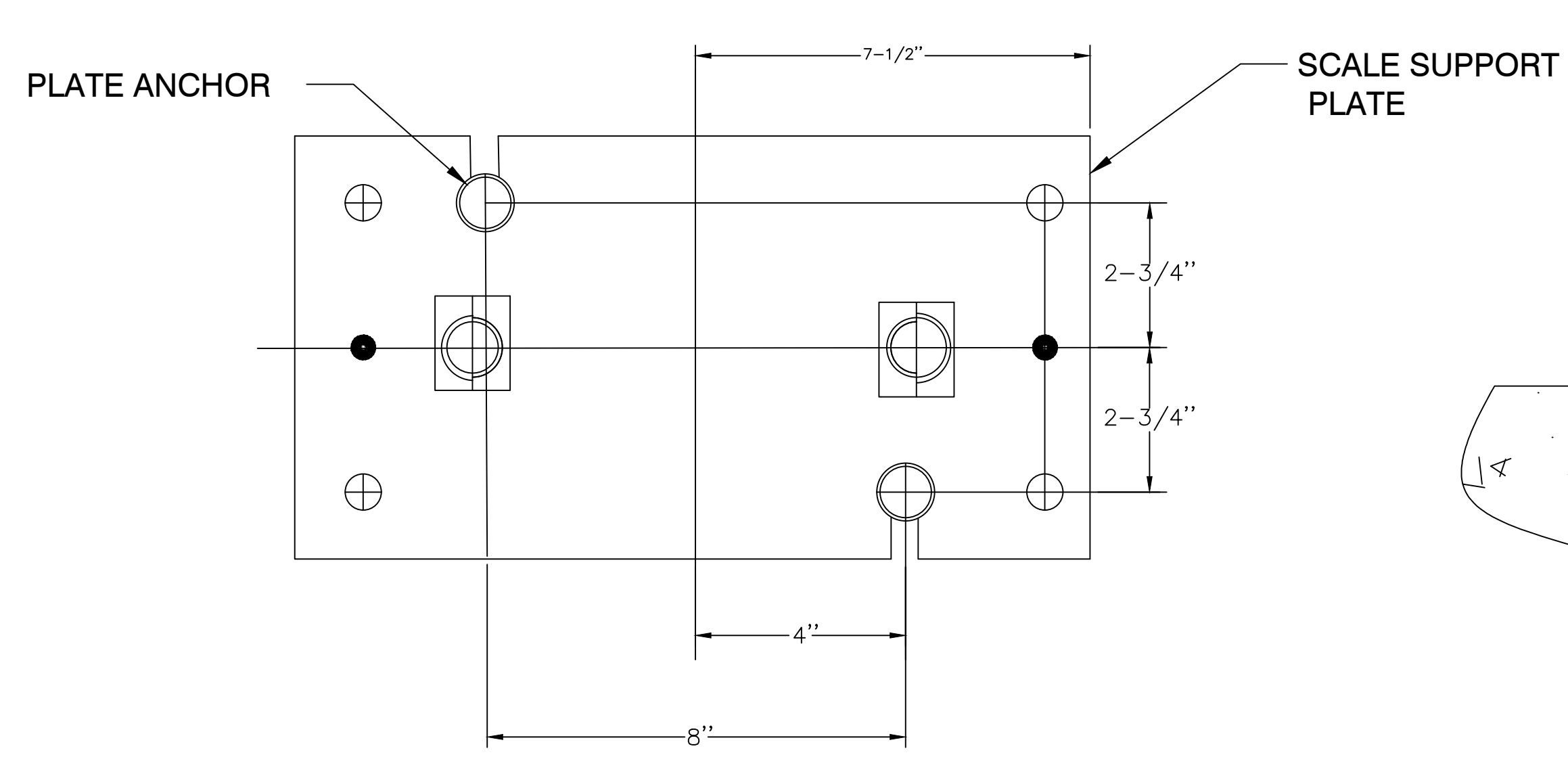
**H** PIER P2 SECTION



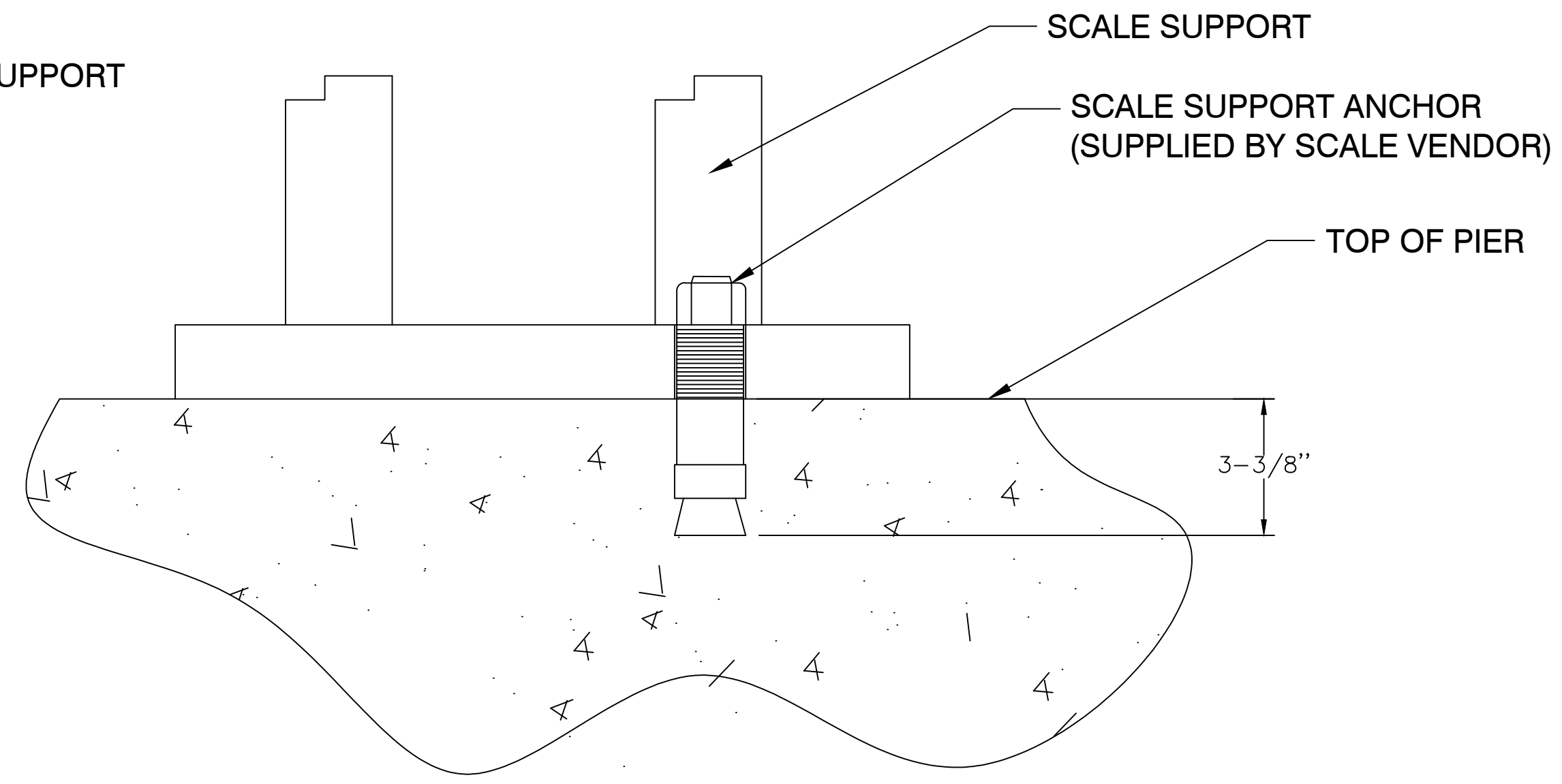
REV.	DATE	DESCRIPTION
03	04/03/2019	ISSUE FOR BID
02	01/10/2019	CITY PLANNING REVIEW
01	12/07/2018	PRELIMINARY SITE PLANS OWNER REVIEW
		DRAWN
		CHECKED

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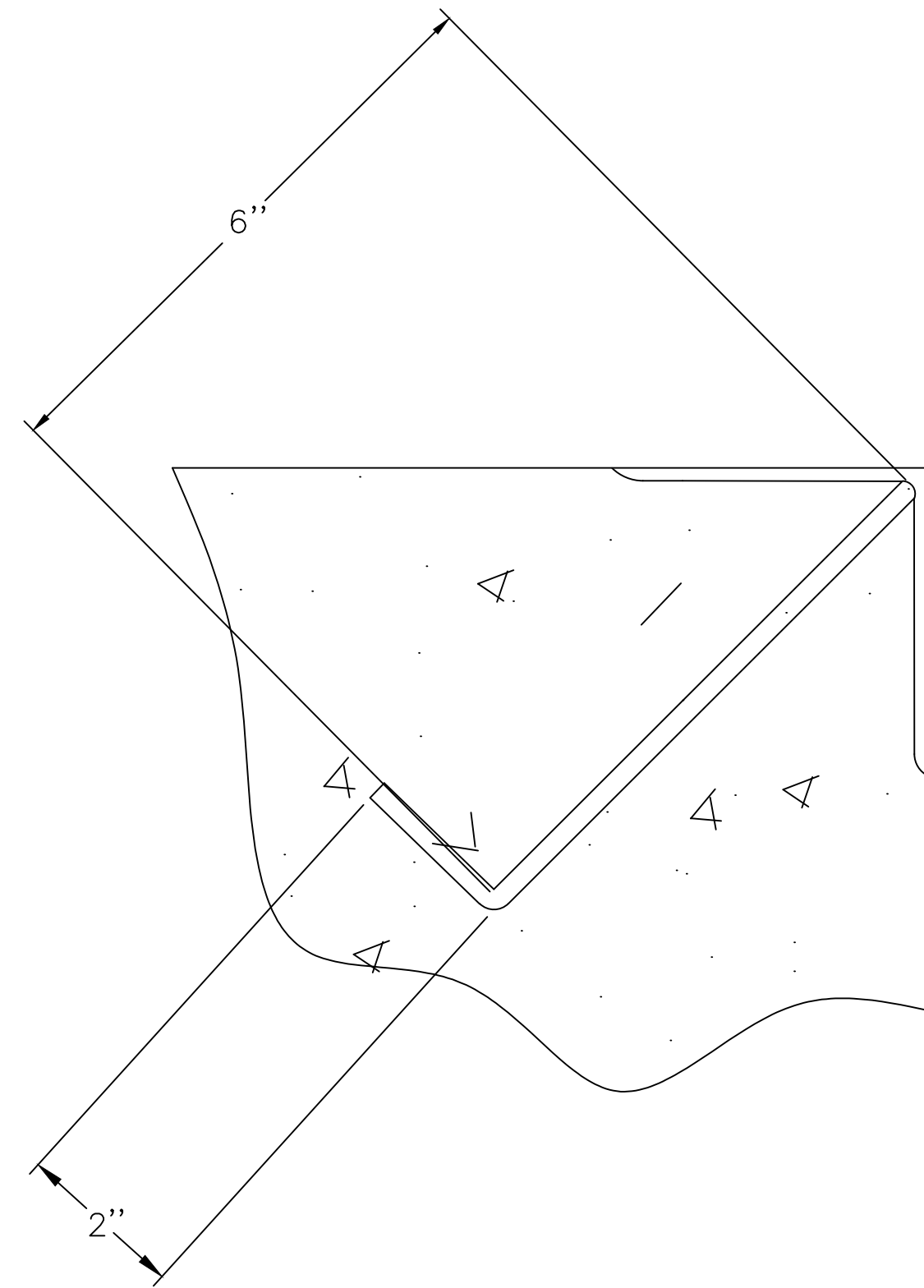
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
 LANDFILL SCALE AND ENTRANCE IMPROVEMENTS  
 SCALE FOUNDATION DETAILS  
 SCALE  
 NTS  
 DRAWING No.  
 ANNA 0035-11



**I** SCALE PLATE PLAN



**J** SCALE PLATE SECTION



3x3x1/4x12'-0"  
ANCHOR F.B. 2" x 1/4" WELDED  
TO ANGLE @18" C.C.  
NOTE:  
ANCHOR BARS MAY BE SUBSTITUTED BY  
"NELSON" TYPE C-4 ANCHOR STUDS,  
Ø1/2 x 6" LONG, OR APPROVED EQUIV.

**K** NOSING ANGLE DETAIL



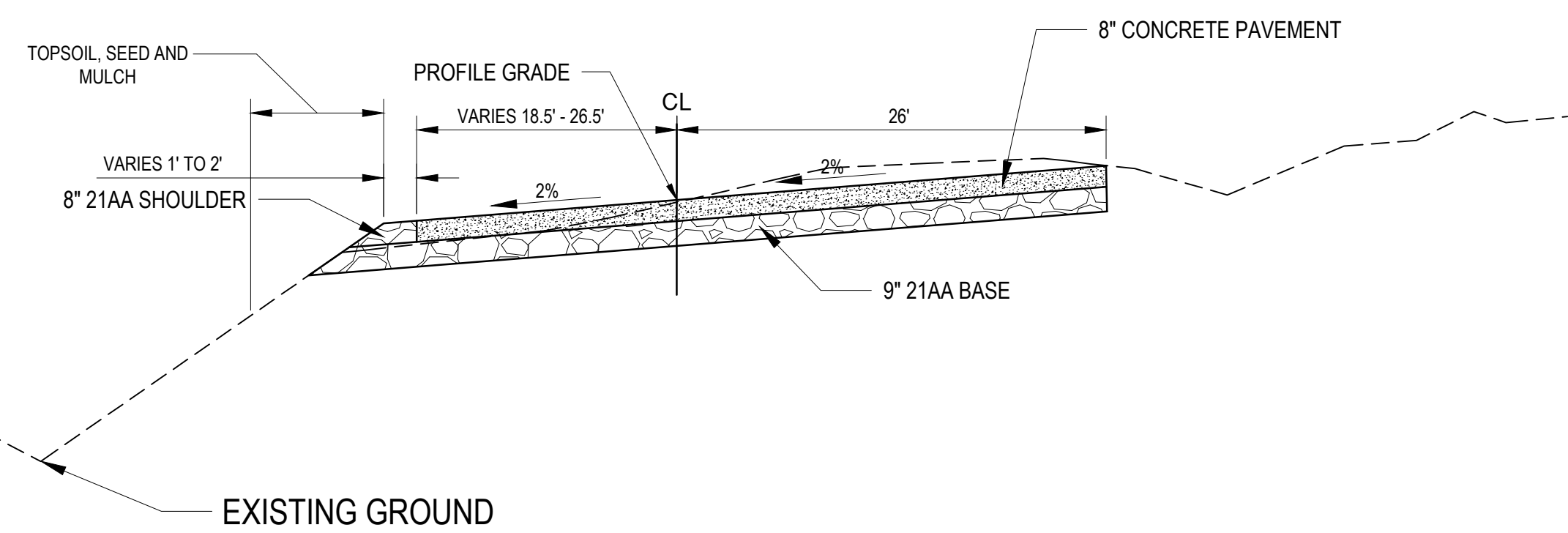
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	ISSUE FOR BID	04/03/2019	TJS	TEW
02	CITY PLANNING REVIEW	01/10/2019	QSH	TEW
01	PRELIMINARY SITE PLANS OWNER REVIEW	12/07/2018	QSH	TEW

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

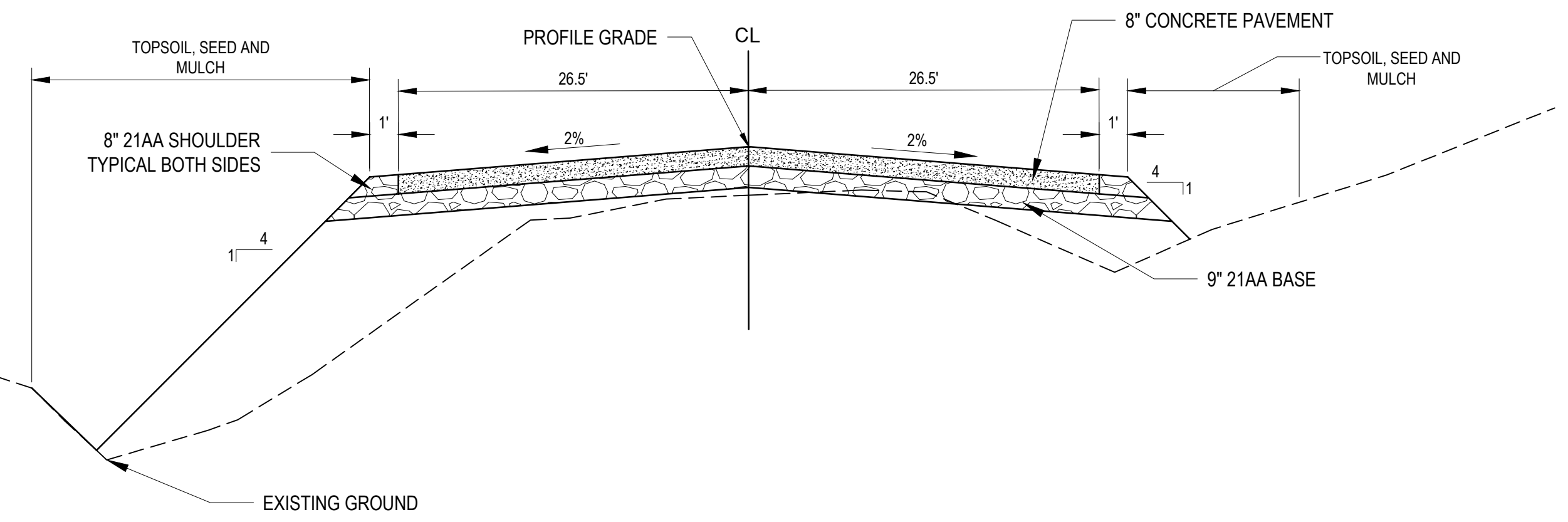
SCALE: NTS  
DRAWING No.: ANNA 0035-12

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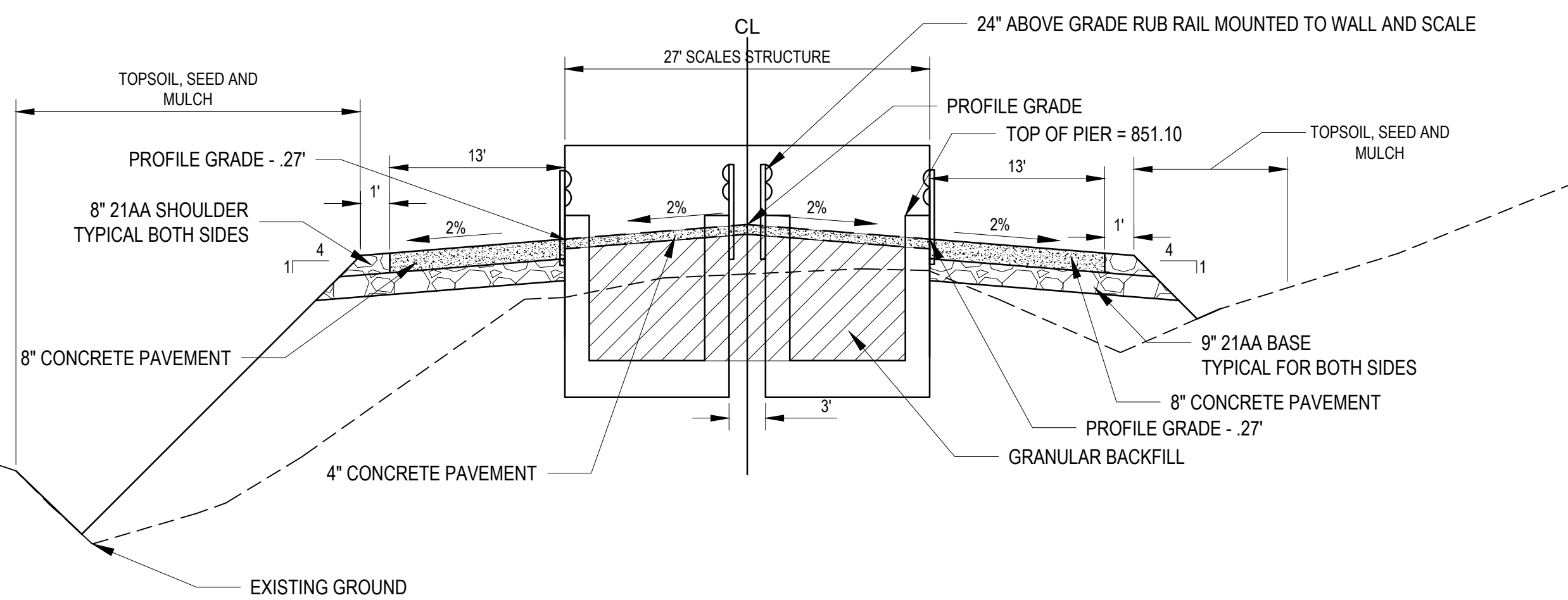


**TYPICAL CROSS SECTION THREE LANE SECTION  
FROM STATION 2+00.00 TO 2+87.00**

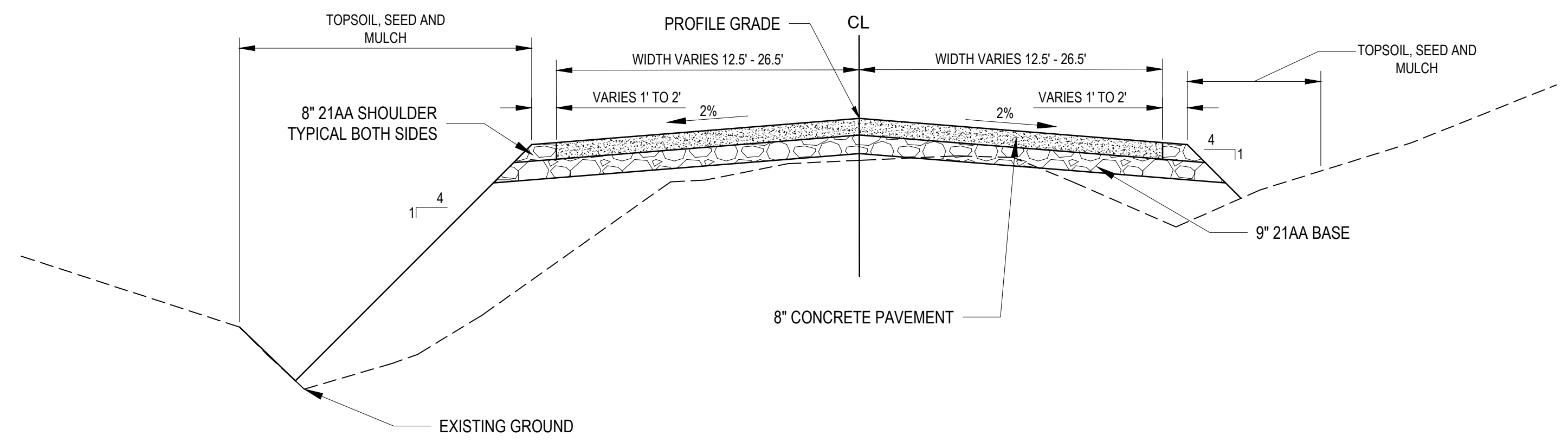
**NOTE: TOPSOIL, SEED AND MULCH LIMITS EXTEND  
2 FEET BEYOND TOUCH DOWN POINT  
ON TYPICAL CROSS SECTION**



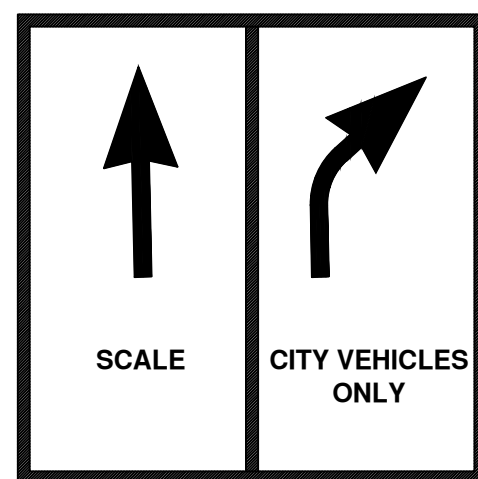
**TYPICAL CROSS SECTION WIDENING AREA  
FROM STATION 5+10.00 TO 5+25.00**



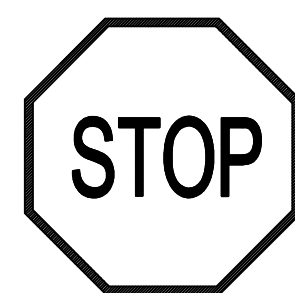
**TYPICAL CROSS SECTION SCALE AREA  
FROM STATION 2+87.00 TO 5+10.00**



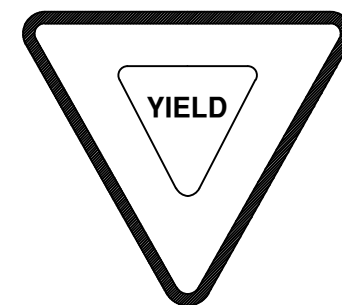
**TYPICAL CROSS SECTION WIDENING AREA  
FROM STATION 5+25.00 TO 6+00.00**



**SIGN CODE A2-1**



**SIGN CODE R1-1 (30)**

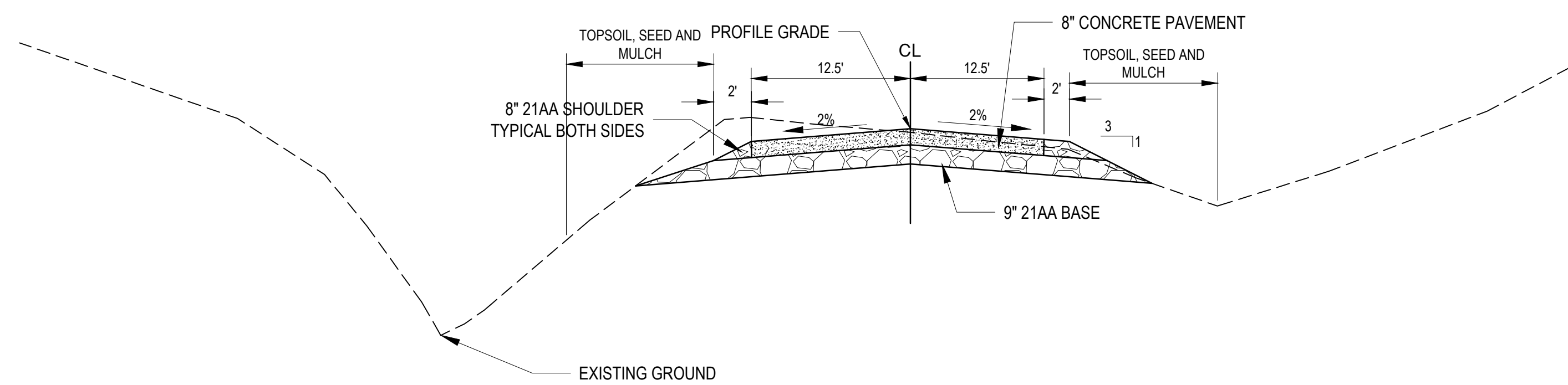


**SIGN CODE R1-2 (36)**

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**



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01	12/07/2018	PRELIMINARY SITE PLANS OWNER REVIEW
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		CHECKED

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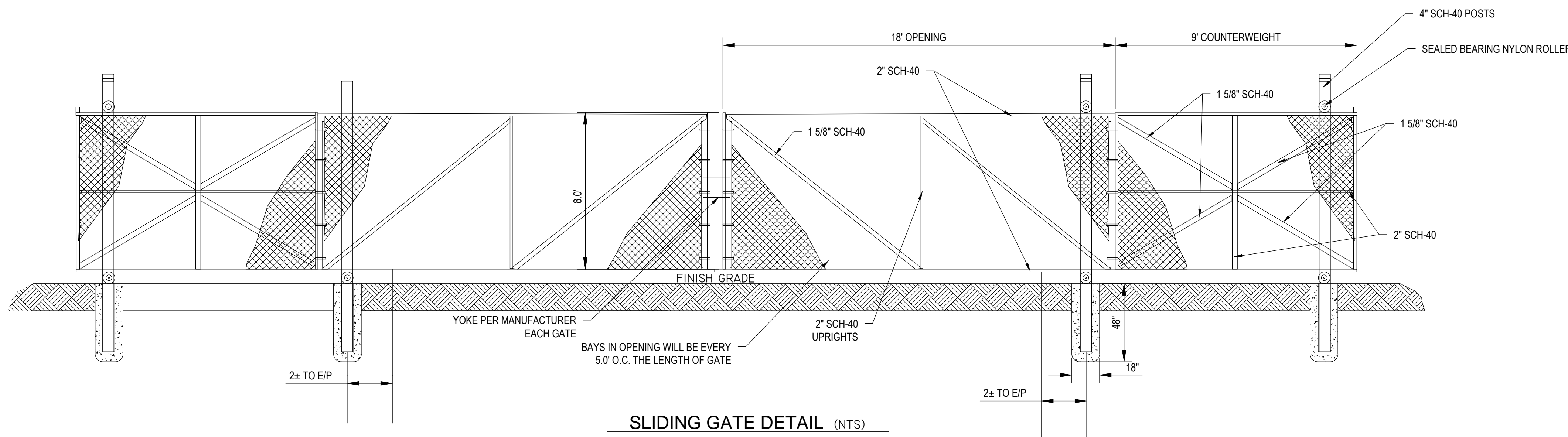
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
LANDFILL SCALE AND ENTRANCE IMPROVEMENTS**

ROADWAY TYPICAL SECTIONS AND DETAILS

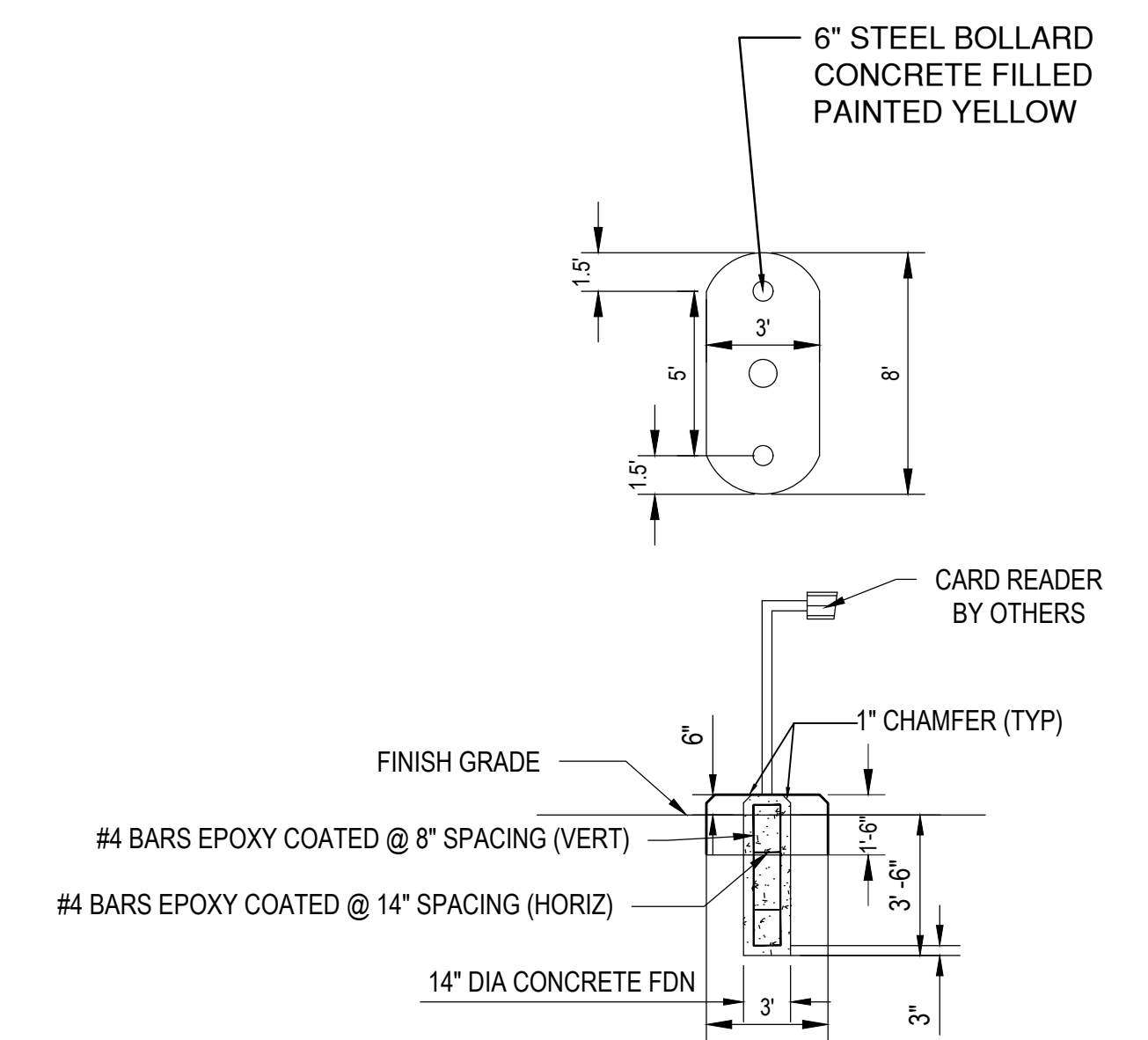
SCALE PLAN: 1" = 100'  
PROFILE: 1" = 4'  
DRAWING No. ANNA0035-13

SHEET No.

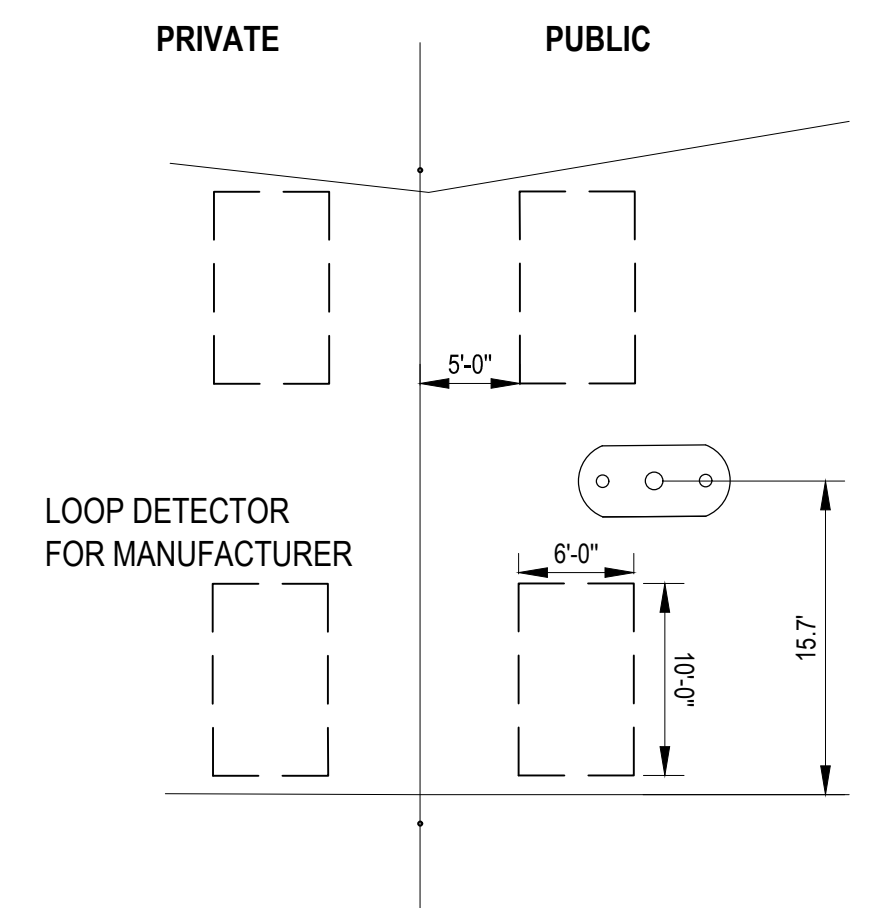
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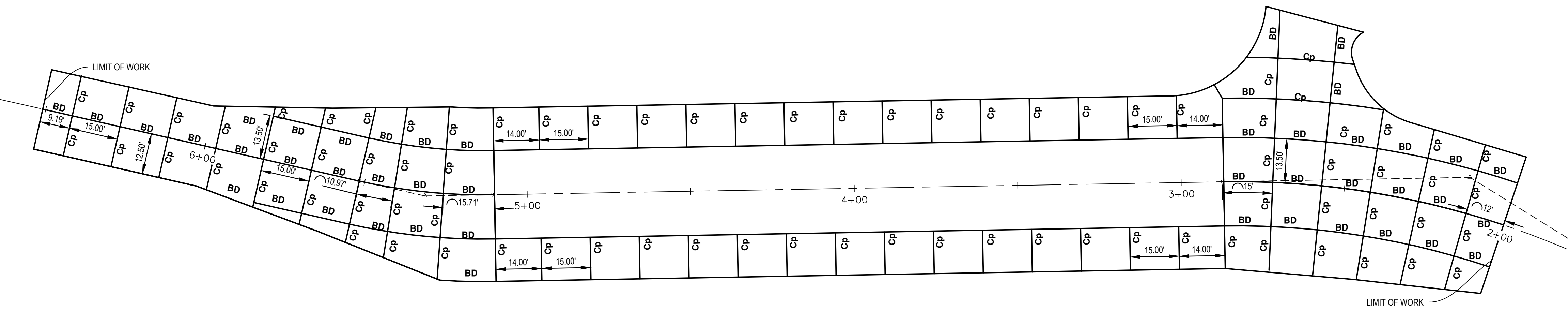
SLIDING GATE DETAIL (NTS)



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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01	12/07/2018	PRELIMINARY SITE PLANS OWNER REVIEW

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

SCALE PLAN: #####  
PROFILE: 1" = X'

DRAWING No. ANNA0035-14  
SHEET No. C-14



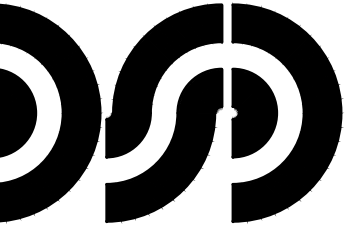


**SHEET NOTES:**

1. EXACT CONDUIT ROUTING SHALL BE REVIEWED BY CITY OF ANN ARBOR PRIOR TO INSTALLATION.
2. ALL NETWORK HARDWARE SHALL BE PROVIDED BY CITY OF ANN ARBOR I.T. DEPARTMENT.

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

1. CONNECT CONDUIT TO EXISTING COMMUNICATION CABINET WITH THREADED FITTING AND WEATHER RESISTANT GASKET.
2. EXCAVATE AND ROUTE CONDUIT MINIMUM OF 24" BELOW GRADE. RETURN GROUND TO ORIGINAL CONDITION.
3. PROVIDE COMMUNICATION HANDHOLE, REFER TO DETAIL SHEET E-004.
4. ROUTE DUCTBANK ABOVE "SWIFT RUN DRAIN" APPROXIMATELY 200' LONG. REFER TO DETAIL SHEET E-004.
5. 1'-3" SCHEDULE 80 PVC CONDUIT WITH PULL WIRE. FIBER OPTIC CABLE WILL BE INSTALLED AND TERMINATED UNDER SEPARATE CONTRACT, ELECTRICAL CONTRACTOR TO COORDINATE.



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

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

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

**ELECTRICAL SITE PLAN**  
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ISSUED FOR	DATE
CLIENT REVIEW	03-25-19
BIDS	04-03-19

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(TOLL FREE)

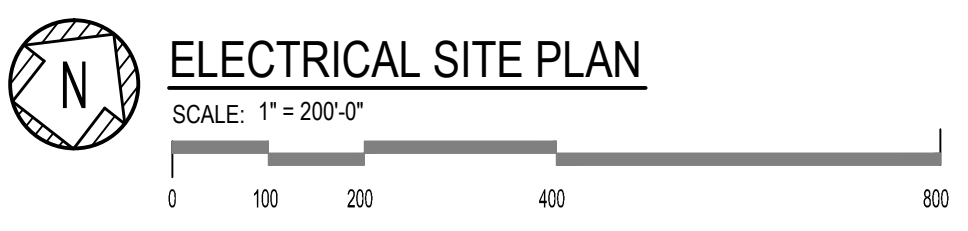
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**UNDERGROUND CONCRETE ENCASED DUCTBANK LEGEND:**

- = INDICATES NEW EMPTY CONDUIT WITH PULL WIRE
- = INDICATES NEW CABLE IN NEW CONDUIT



DESIGNER:	SMD
DRAWN:	DSS / TCJ
PM / PIC:	JSR / SM
CHECKED:	
ACADFILE:	18-1305.00-E-002
PROJECT No:	<b>18-1305.00</b>

**E-002**

**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 (LICENS 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 (LICENS 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: CONTACT INFORMATION  
 THE CONTRACTOR FROM PARADIGMSOFTWARE LLC. CHERYL R. JOHNSON  
 BUSINESS DEVELOPMENT SPECIALIST  
 OFFICE 410-329-1300 OPTION 3  
 CELL 443-834-6731

**BILL OF MATERIALS**

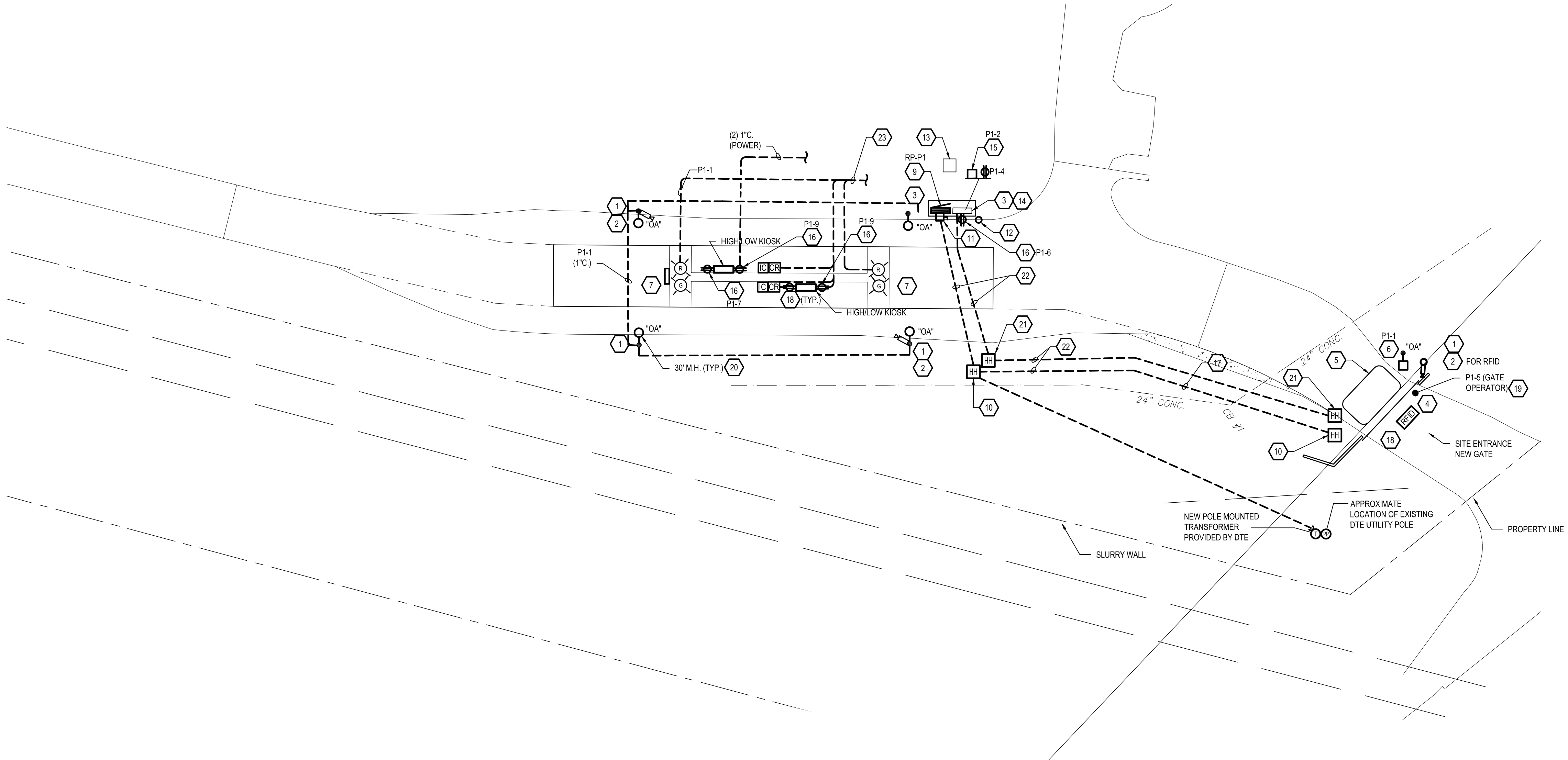
QTY	UM	ITEM/DESCRIPTION
2	LN	WeighStation Program License
1	EA	CompuWeigh License
1	FF	Insufficient Funds/Split Payments Module
1	FF	Alerts/ Rules Module
1	FF	Software Discount
1	FF	MSMQ Module (1-5 lanes)
2	LN	Unattended Module - (Includes RF and Lights Module)
2	LN	Scale Monitoring Module
2	LN	Video/Picture Module
2	LN	Driver's License Scanning Module - (Customer wants to scan the address and store with the 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 DALIGHT 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 48075-2046  
 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

DESIGNER:	SDJ
DRAWN:	DSS / TCJ
PM / P.I.C.:	JSR / SM
CHECKED:	
ACAD FILE:	18-1305.00-E-003
PROJECT No:	<b>18-1305.00</b>
<b>E-003</b>	

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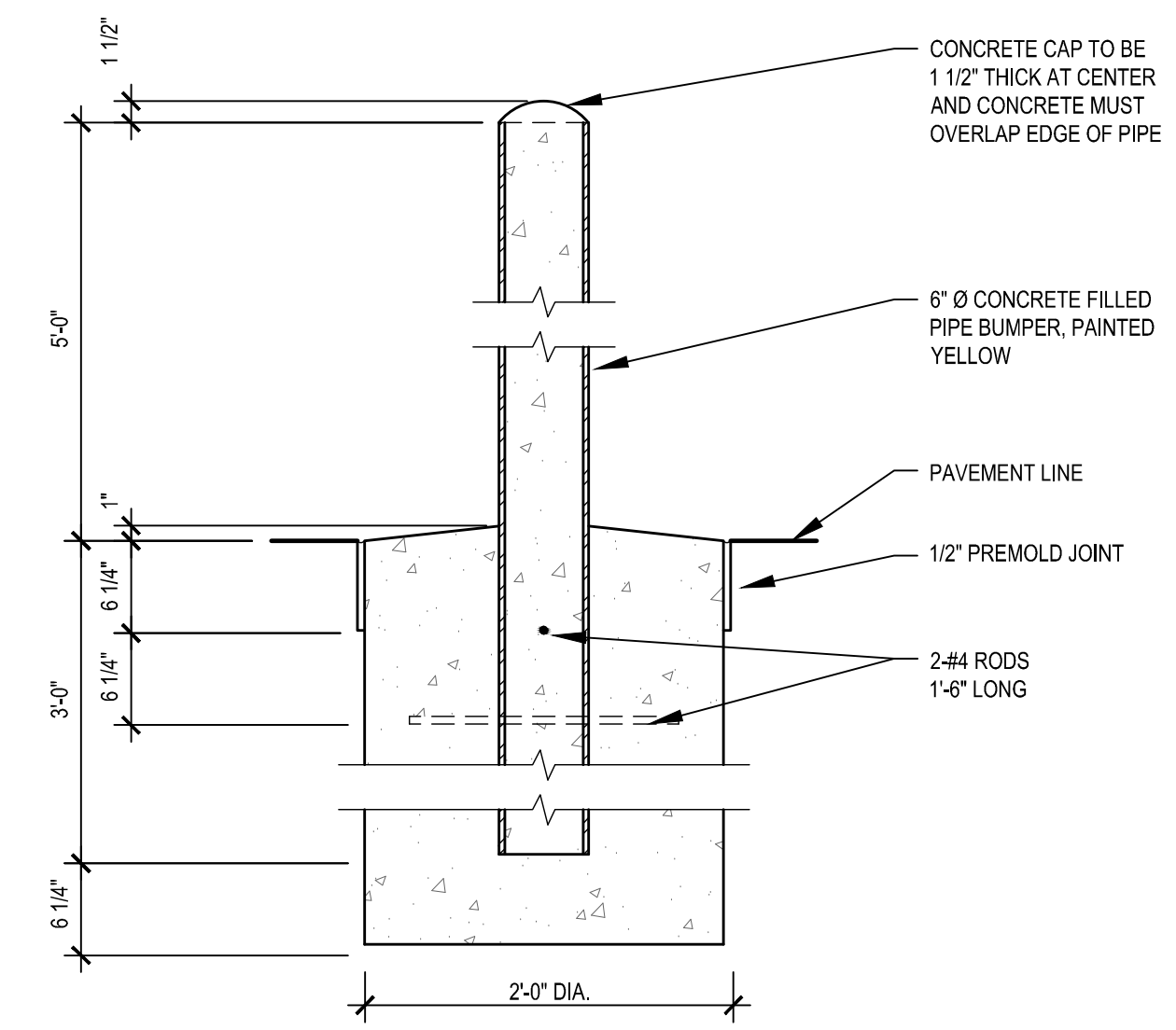
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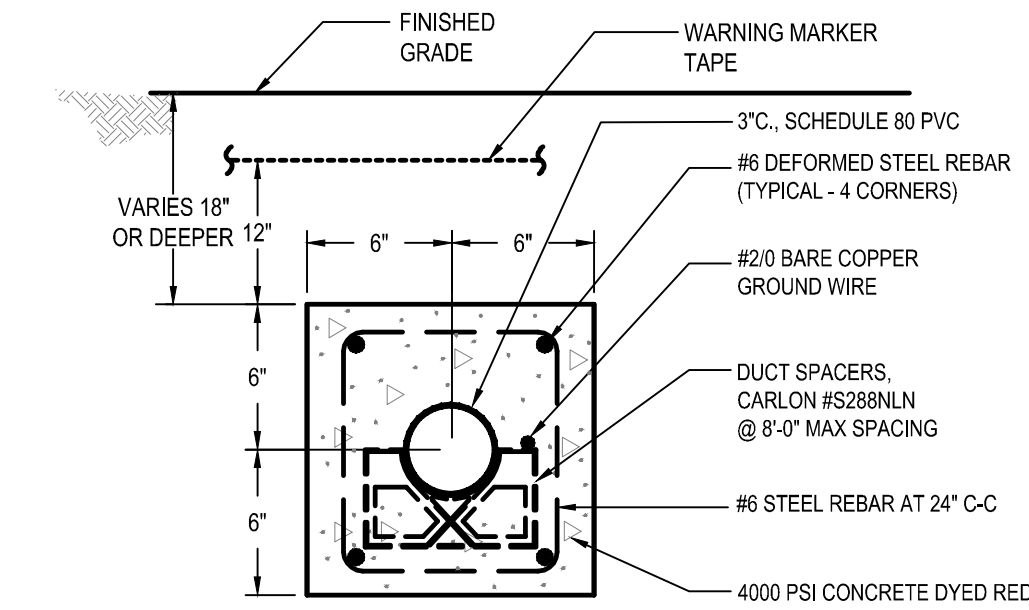
LIGHTING FIXTURE SCHEDULE				
[LIGHTING FIXTURE TYPES]				
TYPE	DESCRIPTION	MOUNTING	WATTS	
OA	LED POLE MOUNTED SINGLE LUMINAIRE, TYPE IV DISTRIBUTION, 3000K COLOR TEMPERATURE, MVOLT DARK BRONZE, BI-LEVEL MOTION/AMBIENT SENSOR, 23, 844 LUMENS, 80 LEDS, 700MA DRIVER CURRENT.  LITHONIA CATALOG NO. D5X2-LED-P2-30K-T4M-MVOLT-PIRH-RPA	POLE	185	

120/240VOLT-1PHASE-3WIRE+GRND PANELBOARD SCHEDULE								
PANELBOARD DESIGNATION	RP-P1	LOCATION	NEAR GATE					
125 AMP BUS	100	M.C.B.	M.L.O.	MOUNTING: FLUSH	SURFACE X			
SPECIAL REQUIREMENTS	22 KAIC							
QTY	VA	LOAD TYPE	A	B	C	LOAD TYPE	VA	QTY
1	925	SITE LIGHTING				STRIP HEATER	200	2
3	600	SCALE				RECEPT. (CABINET)	200	4
5	1200	GATE OPERATOR				RECEPT. (CABINET)	200	6
7	400	KIOSK				SPARE	.	8
9	400	KIOSK				SPARE	.	10
11	.	SPARE				SPARE	.	12
13	.	SPARE				SPARE	.	14
15	.	SPARE				SPARE	.	16
17	.	SPARE				SPARE	.	18
19	.	SPACE				SPACE	.	20
21	.	SPACE				SPACE	.	22
23	.	SPACE				SPACE	.	24
25	.	SPACE				SPACE	.	26
27	.	SPACE				SPACE	.	28
29	.	SPACE				SPACE	.	30
LIGHTING		925 VA	AT	125 %	=	1156 VA		
RECEPTACLE		400 VA	AT	100 %	=	400 VA	(FRST 10,000 VA AT 100%)	
RECEPTACLE		VA	AT	50 %	=	VA		
MSC.		2800 VA	AT	80 %	=	2240 VA		
TOTAL		4125 VA	TOTAL DEMAND	=	3796 VA	/	240 V	= 15.8 A

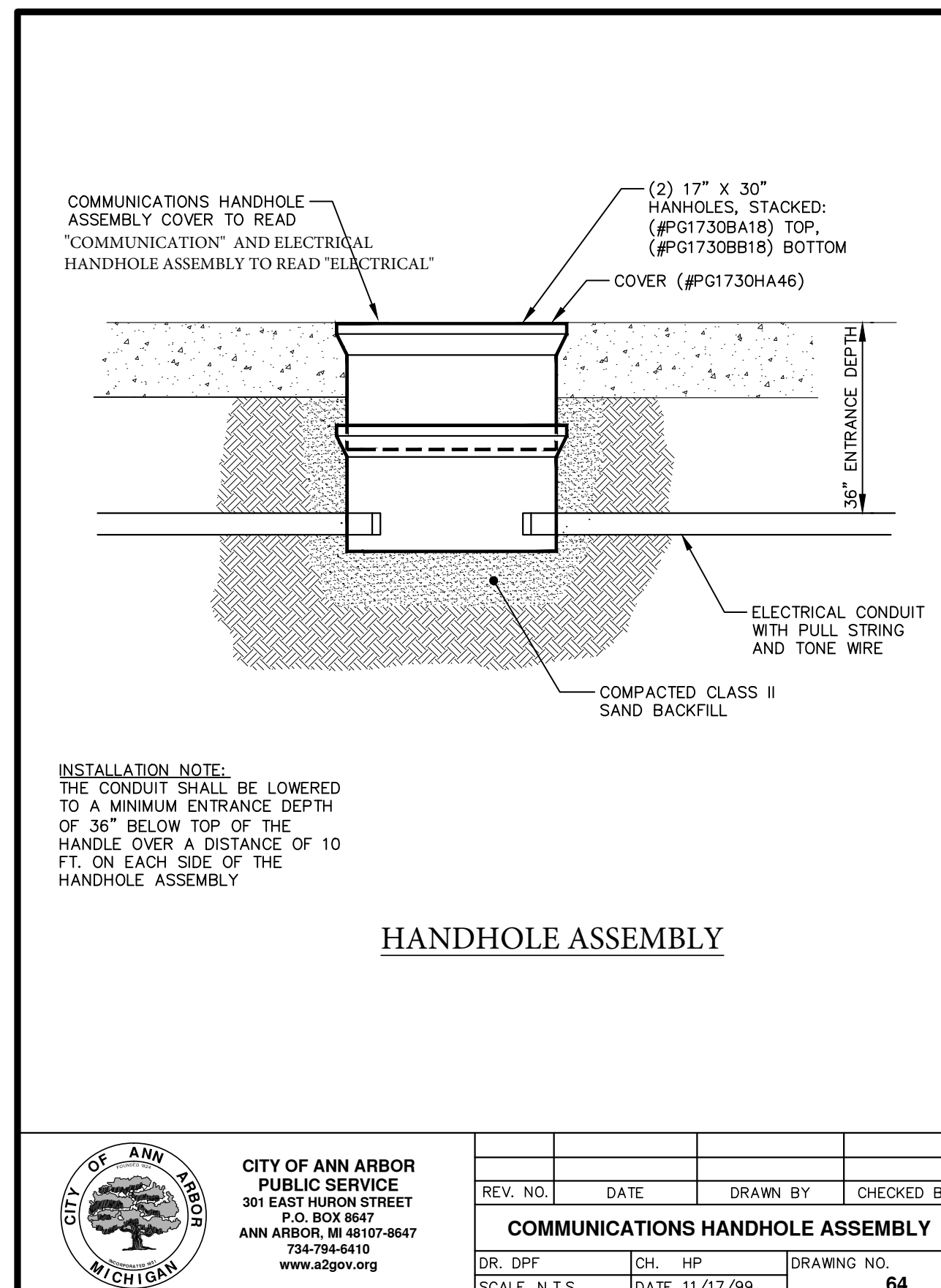
- ALL CIRCUIT BREAKERS ARE 20A-1P UNLESS NOTED OTHERWISE.
- BALANCE ALL ELECTRICAL LEADS WITH 100%.



**BUMPER POST DETAIL**  
NOT TO SCALE



**UNDERGROUND DUCT SECTION (OVER THE "SWIFT RUN DRAIN")**  
NOT TO SCALE

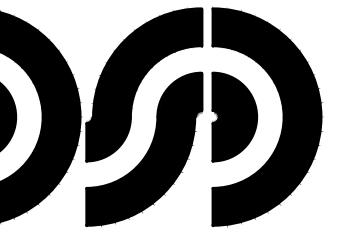


**HANDHOLE ASSEMBLY**



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REV. NO.	DATE	DRAWN BY	CHECKED BY
DR. DFF	CH. HP		
COMMUNICATIONS HANDHOLE ASSEMBLY			
DR. DFF		DRAWING NO. 64	
SCALE: N.T.S.		DATE: 11/17/99	



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

**ELECTRICAL**  
**DETAILS AND**  
**SCHEDULES**

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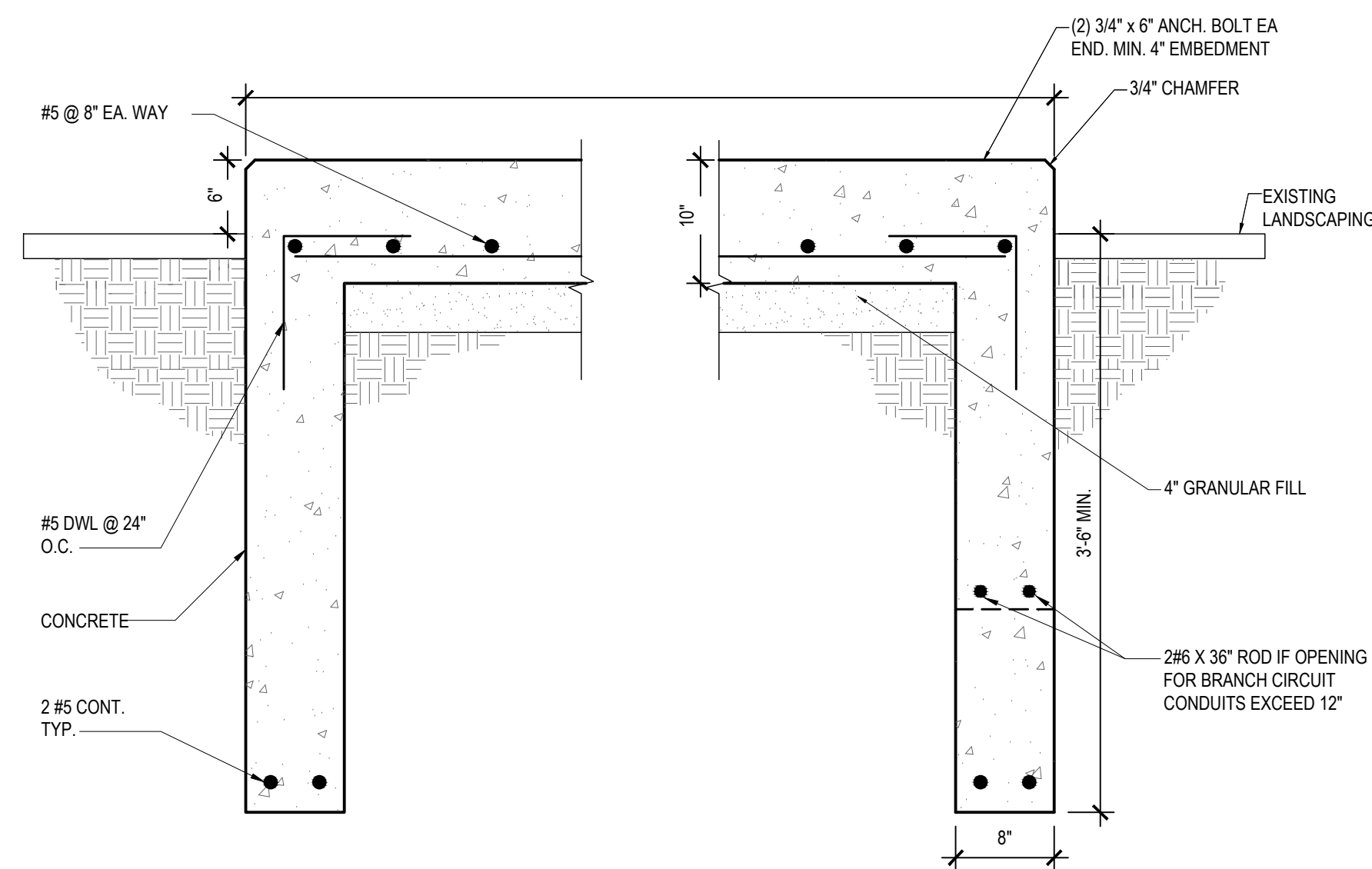
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ISSUED FOR	DATE
CLIENT REVIEW	03-25-19
BIDS	04-03-19

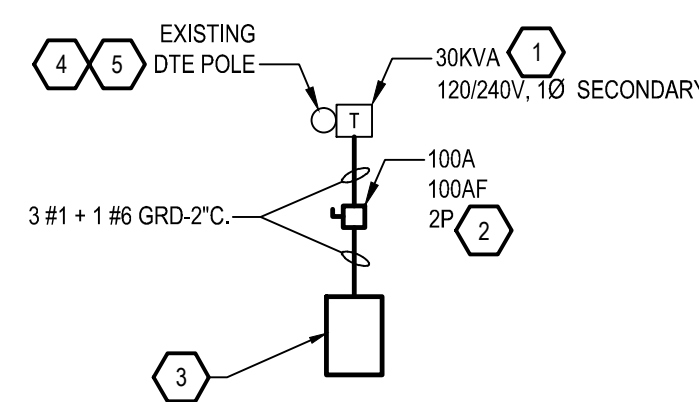
DESIGNER:	SND
DRAWN:	DSS / TCJ
PM / PIC:	JSR / SM
CHECKED:	
ACADFILE:	18-1305.00-E004
PROJECT No:	<b>18-1305.00</b>

**E-004**



**ELECTRICAL EQUIPMENT PAD DETAIL**

- NOT TO SCALE
- NOTES:
1. PROVIDE 1/4" PER FOOT MAXIMUM SLOPE.
  2. DIMENSION VARIES, COORDINATE WITH FINAL EQUIPMENT SHOP DRAWING.

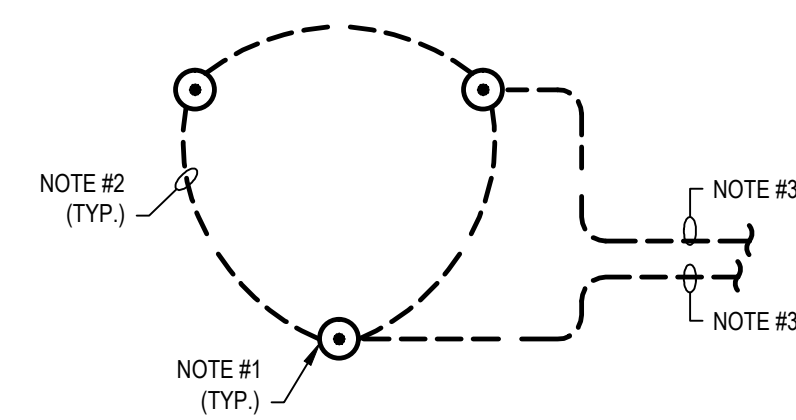


**ELECTRICAL ONE-LINE DIAGRAM**

NOT TO SCALE

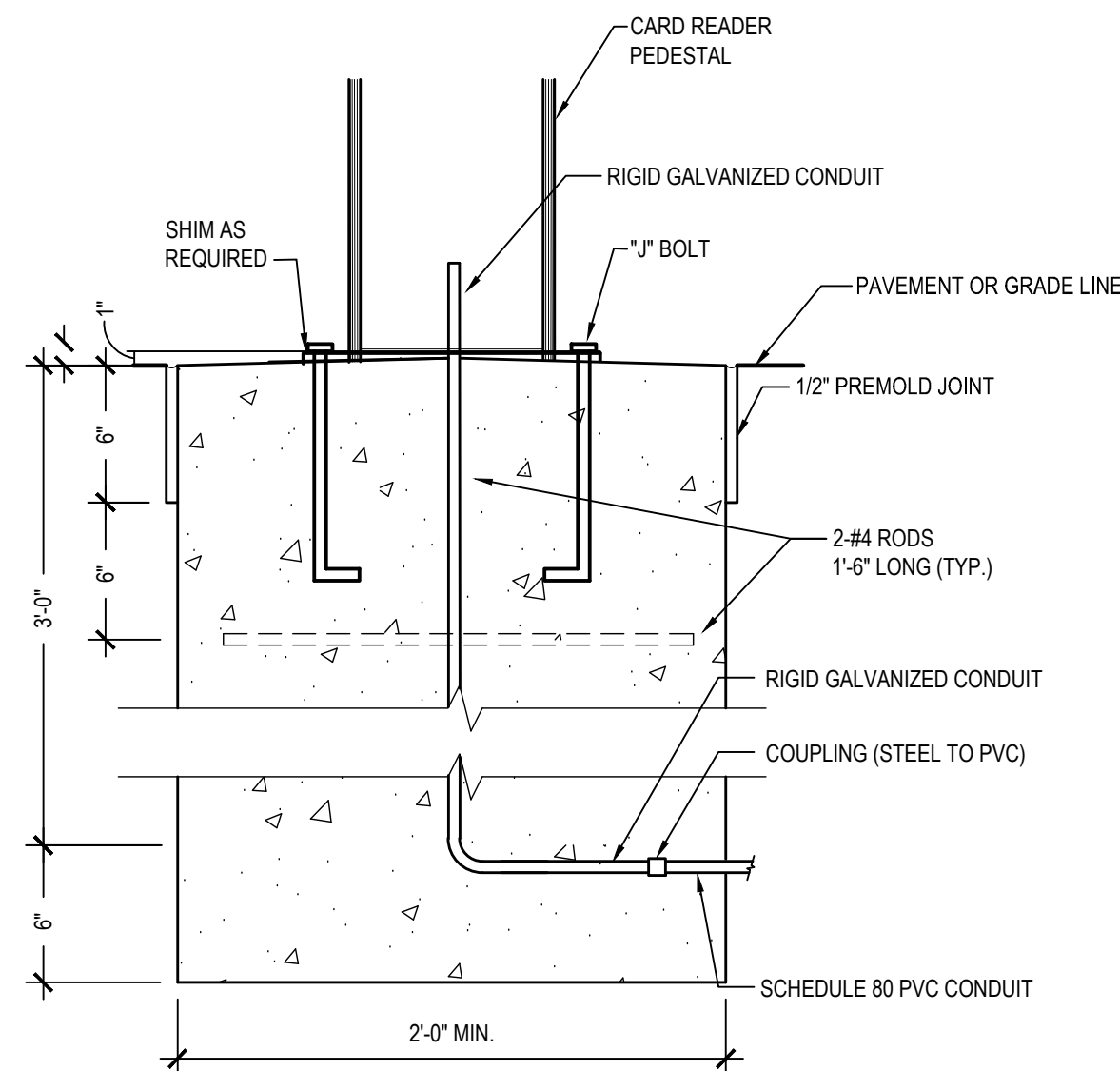
KEY NOTES:  
(APPLICABLE THIS SHEET ONLY)

1. DTE POLE MOUNTED TRANSFORMER, PROVIDED AND INSTALLED BY DTE.
2. SAFETY SWITCH, SERVICE DISCONNECT RATED BY SQUARE D OR CUTLER HAMMER. PROVIDE BUSSMAN RK5 FUSES.
3. ELECTRICAL PANELBOARD, COMMERCIAL GRADE, COPPER BUS, 22KAIC NEMA 3R. REFER TO SPECIFICATION AND PANEL SCHEDULE FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE INCOMING CABLE PROTECTION ON POLE (I.E. RGS CONDUIT) PER DTE STANDARDS, APPROXIMATELY 10'-0" AFG.
5. MEET WITH DTE FOR NEW ELECTRICAL SERVICE AND INCLUDE IN YOUR BIDS FOR ALL MEETINGS WITH DTE.



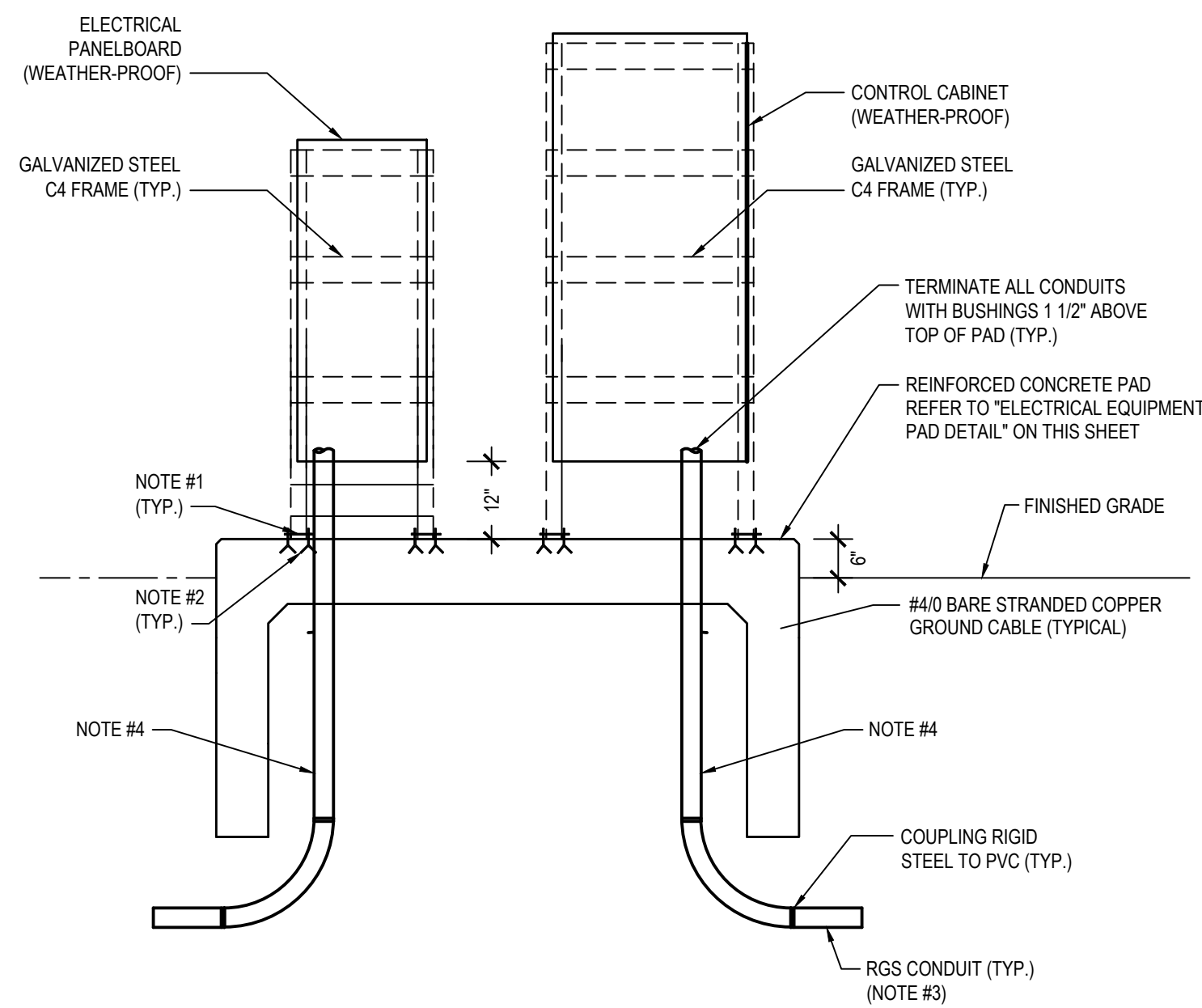
**GROUND LOOP DETAIL**

- NOT TO SCALE
- NOTES:
1. GROUND ROD TO BE 3/4" DIA. x 10' LONG COPPERWELD WITH TOP 12" BELOW GRADE.
  2. GROUND LOOP TO BE #10 BARE STRANDED COPPER GROUND WIRE. CADWELD ALL CONNECTIONS.
  3. ROUTE TO ELECTRICAL PANELBOARD GROUND TERMINAL AND TO COMMUTATION CABINET GROUND BUS



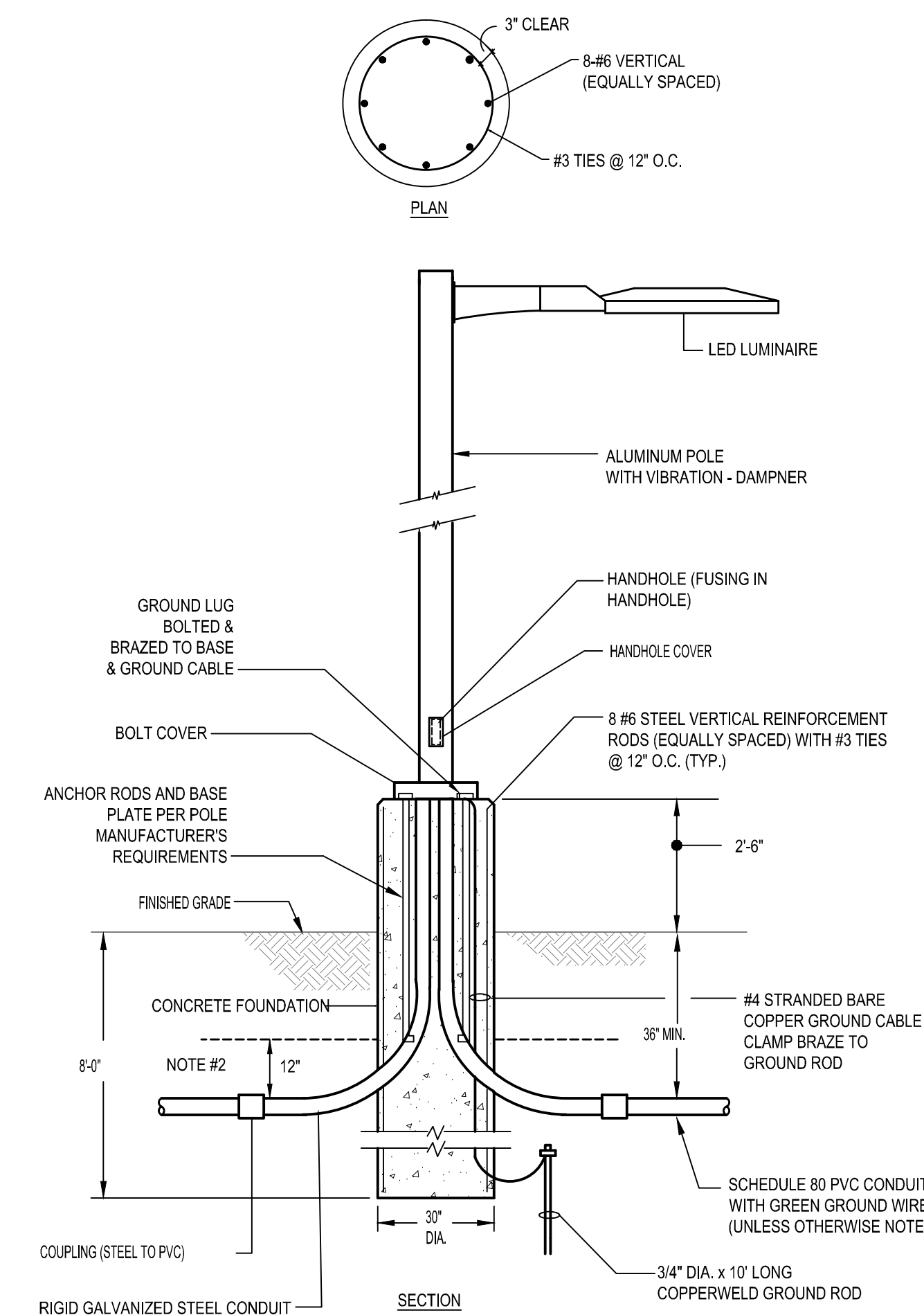
**CARD READER PEDESTAL DETAIL**

NOT TO SCALE



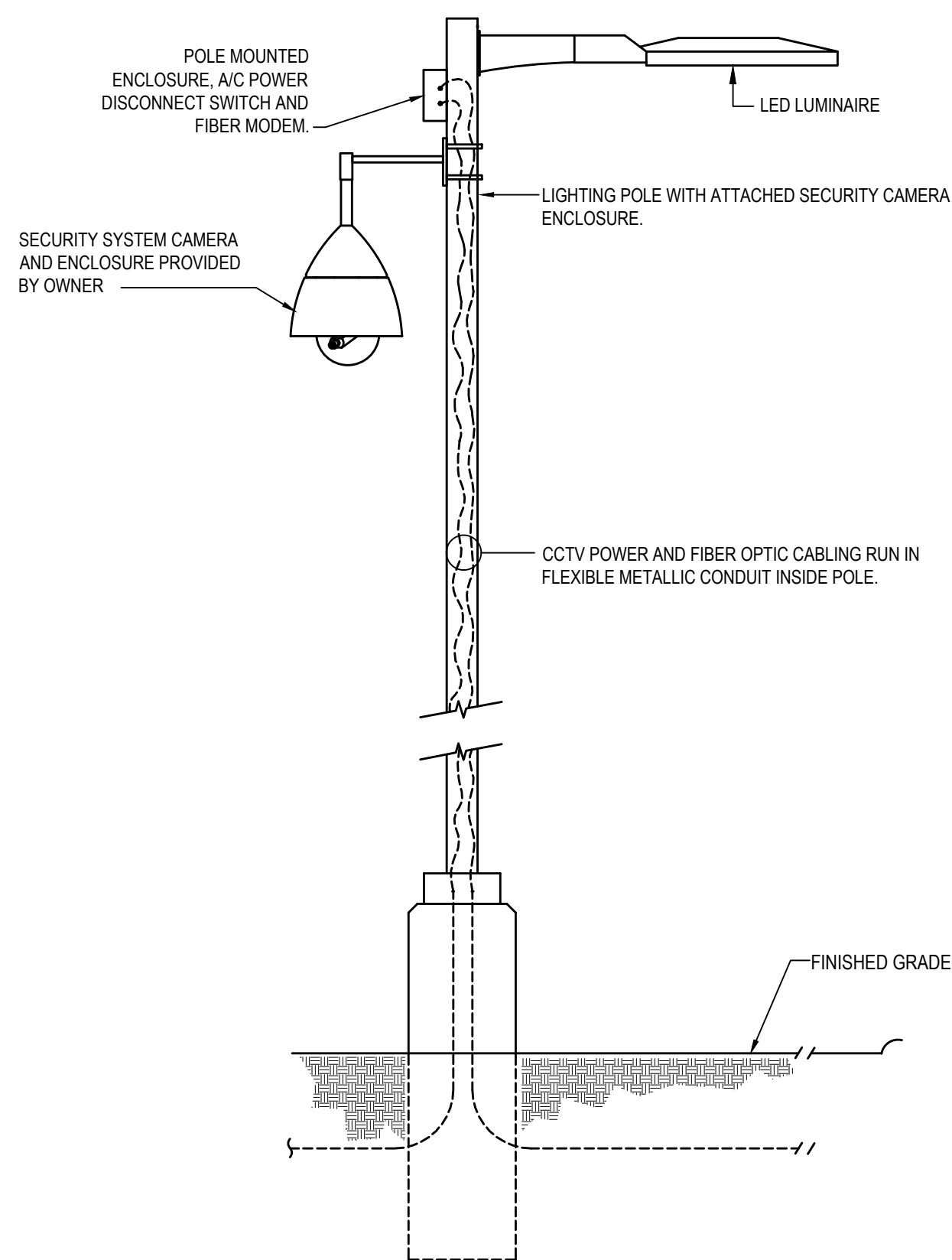
**ELECTRICAL PANELBOARD AND CONTROL CABINET DETAIL**

- NOT TO SCALE
- NOTES:
1. 5/8"x8"x8" GALVANIZED STEEL BASE PLATE.
  2. 5/8" DIAMETER GALVANIZED EXPANSION ANCHOR TYPICAL FOR TWO AT EACH BASE PLATE.
  3. SCHEDULE80 PVC CONDUIT 48" BELOW FINISHED GRADE (WITH MARKER TAPE 12" BELOW FINISHED GRADE)
  4. PROVIDE MULTIPLE CONDUITS AS REQUIRED.



**LIGHTING FIXTURE DETAIL TYPE "OA"**

- NOT TO SCALE
- NOTES:
1. COMPACTION REQUIREMENTS TO BE @ 95% MINIMUM FOR THE MUW (MAXIMUM UNIT WEIGHT) OF THE MATERIAL.
  2. PROVIDE PLASTIC TAPE TRACE 12" ABOVE CONDUIT (RED TAPE WITH BLACK LETTERS) "CAUTION- ELECTRIC BURIED".
  3. ALL POLES TO BE MOUNTED 4'-0" FROM THE CURB.



**TYPICAL SECURITY CAMERA MOUNTING DETAIL**

NOT TO SCALE



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

**ELECTRICAL  
DETAILS**

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BDS	04-03-19

DESIGNER:	TJM/SMD
DRAWN:	TJM
PM / PIC:	JSR
CHECKED:	
ACADFILE:	18-1305.00E005
PROJECT No.	<b>18-1305.00</b>

**E-005**