

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS

IN COOPERATION WITH
MICHIGAN DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

CONTROL SECTION NO. -----

JOB NO. -----

FEDERAL PROJECT NO. -----

FEDERAL ITEM NO. -----

PLANS FOR PROPOSED

ADELAIDE ST OVER ABANDONED GTW RR (DEQUINDRE CUT) BRIDGE REPLACEMENT

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MDOT STANDARD PLANS (NOT TO BE PRINTED)

WHERE THE FOLLOWING ITEMS ARE CALLED FOR IN THE PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARD PLANS GIVEN BELOW.

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DRIVEWAY OPENING & APPROACHES AND CONCRETE SIDEWALKS	R-29-H
INTEGRAL CURB AND INTEGRAL CURB & GUTTER	R-31-F
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LOCATION OF TRANSVERSE JOINTS IN PLAIN CONCRETE PAVEMENT	R-43-I
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UTILITY TRENCHES	R-83-B
SOIL EROSION & SEDIMENTATION CONTROLS	R-96-E
BRIDGE RAILING, AESTHETIC PARAPET TUBE	B-25-G
FENCING FOR BRIDGE RAILING, AESTHETIC PARAPET TUBE	B-41-C
MOLDING, BEVEL, LIGHT STANDARD ANCHOR BOLT ASSEMBLY & NAMEPLATE DETAILS	B-103-E

TRAFFIC AND SAFETY STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR IN THE PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARD PLANS GIVEN BELOW, OPPOSITE EACH ITEM, UNLESS OTHERWISE INDICATED.

GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS	W20-100-A*
TEMPORARY TRAFFIC CONTROL DEVICES	W20-125-d

* DESIGNATES SPECIAL DETAILS

UTILITY CONTACT INFORMATION

CITY OF DETROIT STREET LIGHTING
PLD
9449 GRINNELL
DETROIT, MI 48213
MICHAEL LASKOWSKI (313) 267-7306

CITY OF DETROIT WATER MAINS & SEWERS
DWSD
735 RANDOLPH ST.
DETROIT, MI 48226
GANG SONG (313) 967-1508

CITY OF DETROIT TRAFFIC SIGNALS
TRAFFIC ENGINEERING, D.P.W.
2633 MICHIGAN AVENUE
DETROIT, MI 48207
ASHOK PATEL (313) 224-1610

DTE, DETROIT EDISON ELECTRIC POWER
ONE ENERGY PLAZA
IC5 GROUP, 5185B
DETROIT, MI 48226
CHANELLE BARNES (313) 235-4427

DTE, MICHIGAN CONSOLIDATED GAS COMPANY
17150 ALLEN RD
MELVINDALE, MI 48122
LAURIE FORRESTER (313) 389-7261

AT&T
17651 MICHIGAN AVE
DEARBORN, MI 48126
DAVID HARDAWAY (313) 240-5541

DETROIT THERMAL LLC
3575 E PALMER ST
DETROIT, MI 48201
ED LAROSA (313) 921-1922

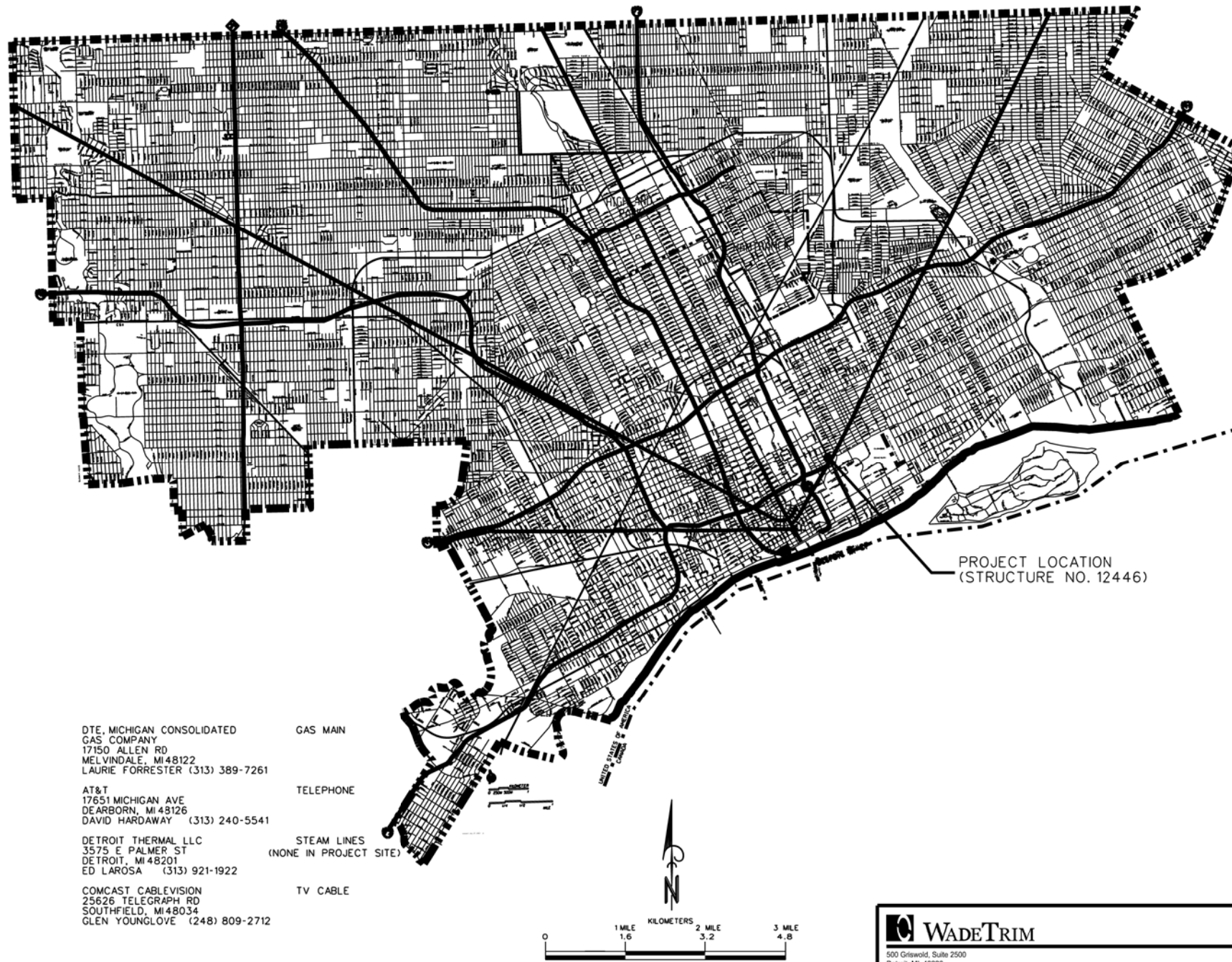
COMCAST CABLEVISION
25626 TELEGRAPH RD
SOUTHFIELD, MI 48034
GLEN YOUNGLOVE (248) 809-2712

GAS MAIN

TELEPHONE

STEAM LINES
(NONE IN PROJECT SITE)

TV CABLE



GENERAL NOTES

THE RECONSTRUCTION DESIGN IS BASED ON 1.2 TIMES THE CURRENT AASHTO LRFD BRIDGE DESIGN SPECIFICATION HL-93 LOADING WITH THE EXCEPTION THAT THE DESIGN TANDEM PORTION OF THE HL-93 LOAD DEFINITION SHALL BE REPLACED BY THE SINGLE 60 KIP AXLE LOAD BEFORE APPLICATION OF THIS 1.2 FACTOR. THE RESULTING LOAD IS DESIGNATED HL-93 MOD. LIVE LOAD PLUS DYNAMIC LOAD ALLOWANCE DEFLECTION DOES NOT EXCEED 1/1000 OF SPAN LENGTH.

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS, OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE ACCORDING TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2012 EDITION.

THE DESIGN OF THE STRUCTURAL MEMBERS ARE BASED ON MATERIAL OF THE FOLLOWING GRADES AND STRESSES:

CONCRETE: GRADE S2	FC-3,000 PSI
CONCRETE: GRADE D	FC-4,000 PSI
STEEL REINFORCEMENT	FY-60,000 PSI

ESTIMATED TRAFFIC DISTRIBUTION	
AVERAGE DAILY TRAFFIC	335
DESIGN HOURLY VOLUME	
COMMERCIAL	10%
POSTED SPEED	NONE
DESIGN SPEED	30 MPH

ALL EXPOSED CONCRETE CORNERS SHOWN SQUARE ON THE PLANS SHALL BE BEVELED WITH 1/2" TRIANGULAR MOLDINGS EXCEPT AS OTHERWISE NOTED.

BIDDERS WILL BE FURNISHED WITH SCANNED IMAGES OF PLAN SHEETS OF THE EXISTING STRUCTURE IF REQUESTED.

THE DESIGN OF THE FOUNDATION PILING IS BASED ON MATERIAL OF THE FOLLOWING GRADES AND STRESSES (AND LOSSES):
FOUNDATION PILING (STEEL H-PIILING):
AASHTO M270
GRADE 50
FY-50,000 PSI

UNLESS OTHERWISE SHOWN ON THE PLANS PROVIDE MINIMUM CONCRETE CLEAR COVER FOR REINFORCEMENT ACCORDING TO THE FOLLOWING:
CONCRETE CAST AGAINST EARTH: 3 IN
PRECAST CONCRETE: 1 IN
ALL OTHER UNLESS SHOWN ON PLANS: 2 IN

THE BRIDGE DECK SURFACE HAS AN HMA OVERLAY, HMA CAP OR HMA PATCHES. REMOVAL OF HMA AS A RESULT OF REMOVAL OF OTHER SUPERSTRUCTURE ITEMS SHALL BE INCLUDED IN THE REMOVAL OF THOSE ITEMS.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION.

Drawn	Date:
Checked	CEA File Name
Approved	
	File No.
	Job No.
Approved	
	File No.
Approved	

CONTRACT FOR BRIDGE REPLACEMENT
LOCAL AUTHORITY APPROVAL
CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
DEPARTMENT OF PUBLIC WORKS

APPROVED BY _____ HEAD ENGINEER _____ DATE _____

APPROVED BY _____ CITY ENGINEER _____ DATE _____

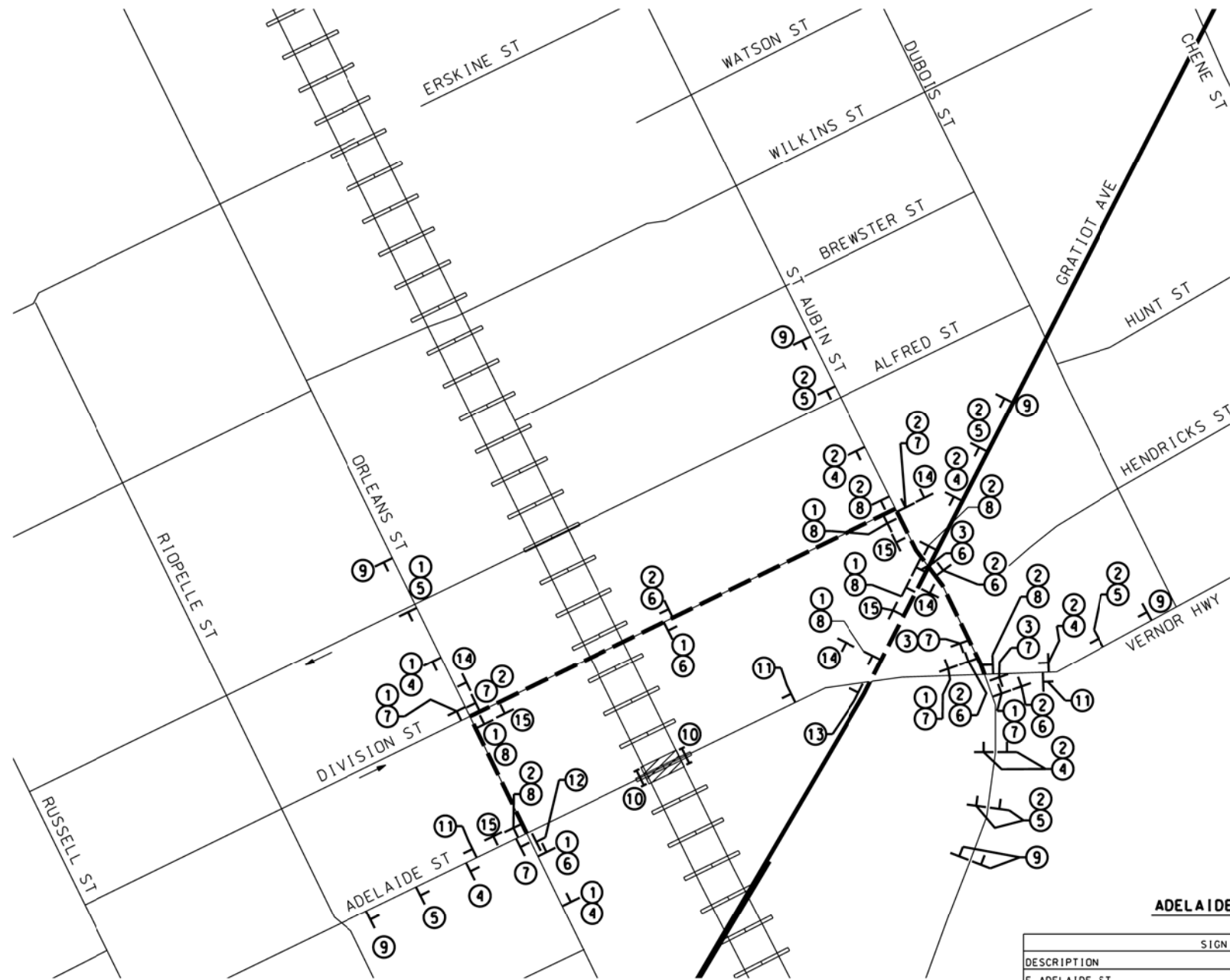
PREPARED UNDER THE SUPERVISION OF

ROBERT R. BREEN, PE LICENSE # _____ DATE _____



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PLAN

ADELAIDE STREET DETOUR SIGNING QUANTITIES

DESCRIPTION	SIGN	CODE	TYPE	SIZE (in X in)		AREA	TOTAL QTY	TOTAL AREA
				IN	IN			
E ADELAIDE ST	SPECIAL SIGN #1	B	B	42	12	3.5	12	42
W ADELAIDE ST	SPECIAL SIGN #2	B	B	42	12	3.5	20	70
E VERNOR HWY	SPECIAL SIGN #3	B	B	54	12	4.5	3	14
DETOUR AHEAD	W20-2	B	B	48	48	16.0	8	128
ROAD CLOSED AHEAD	W20-3	B	B	48	48	16.0	7	112
DETOUR (STRAIGHT)	M4-9o	B	B	30	24	5.0	7	35
DETOUR (LEFT)	M4-9(L)	B	B	30	24	5.0	8	40
DETOUR (RIGHT)	M4-9(R)	B	B	30	24	5.0	8	40
ADELAIDE ST CLOSED ORLEANS ST TO ST AUBIN	SPECIAL SIGN #4	B	B	48	42	14.0	7	98
ROAD CLOSED	R11-2	B	B	48	30	10.0	2	20
END DETOUR	M4-8o	B	B	30	24	5.0	3	15
BEGIN WORK ZONE	R5-18c	B	B	48	48	16.0	2	32
END ROAD WORK	G20-2	B	B	36	16	4.0	2	8
SIDEWALK CLOSED AHEAD CROSS HERE (RIGHT)	R9-11(R)	B	B	24	12	2.0	2	4
SIDEWALK CLOSED AHEAD CROSS HERE (LEFT)	R9-11(L)	B	B	24	12	2.0	2	4
PEDESTRIAN DETOUR (LEFT)	M4-9b(L)	B	B	30	24	5.0	4	20
PEDESTRIAN DETOUR (RIGHT)	M4-9b(R)	B	B	30	24	5.0	4	20
SIGN, TYPE B, TEMP. PRISMATIC, FURN							59	534
SIGN, TYPE B, TEMP. PRISMATIC, OPER								480
SIGN, TYPE B, TEMP. PRISMATIC, SPECIAL, FURN							42	247
SIGN, TYPE B, TEMP. PRISMATIC, SPECIAL, OPER								224

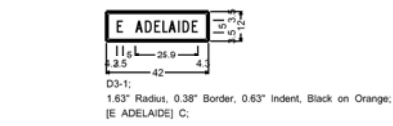
	QTY
BARRICADE, TYPE III, HIGH INTENSITY, FURN	EA 10
BARRICADE, TYPE III, HIGH INTENSITY, OPER	EA 10
MINOR TRAF DEVICES (SN 12446)	LS 1

- ① E ADELAIDE SPECIAL SIGN #1
- ② W ADELAIDE SPECIAL SIGN #2
- ③ E VERNOR HWY SPECIAL SIGN #3
- ④ DETOUR AHEAD W20-2
- ⑤ ROAD CLOSED AHEAD W20-3
- ⑥ DETOUR M4-9o
- ⑦ DETOUR M4-9(L)
- ⑧ DETOUR M4-9(R)
- ⑨ ADELAIDE ST CLOSED ORLEANS ST TO GRATIOT SPECIAL SIGN #4
- ⑩ ROAD CLOSED R11-2
- ⑪ END DETOUR M4-8o
- ⑫ SIDEWALK CLOSED AHEAD CROSS HERE (RIGHT) R9-11(R)
- ⑬ SIDEWALK CLOSED AHEAD CROSS HERE (LEFT) R9-11(L)
- ⑭ DETOUR M4-9b(L)
- ⑮ DETOUR M4-9b(R)

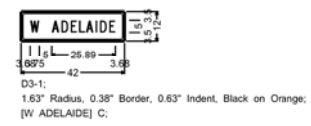
- WORK ZONE BEGINS R5-18c
- END ROAD WORK G20-2

MAINTAINING TRAFFIC NOTES

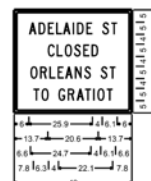
- ALL TEMPORARY CONSTRUCTION TRAFFIC APPURTENANCES, SUCH AS BARRICADES NECESSARY FOR CONSTRUCTION SHALL CONFORM TO THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ALL CONSTRUCTION APPURTENANCES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. EXISTING SIGNS IN CONFLICT WITH THE TEMPORARY CONSTRUCTION TRAFFIC SIGNS SHALL BE COVERED OR TEMPORARILY RESET OR REMOVED AND STOCKPILED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF DETROIT POLICE AND FIRE DEPARTMENTS IN WRITING A MINIMUM OF TEN WORKING DAYS PRIOR TO THE START OF CONSTRUCTION ON ANY ROAD CLOSURES.
- LOCAL STREETS ADJACENT TO THE CONSTRUCTION AREA SHALL NOT BE USED BY THE CONTRACTOR FOR EQUIPMENT AND MATERIAL STORAGE.
- THE CONTRACTOR SHALL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL FOR TRUCK OR HAUL ROUTES TO BE USED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY ADJACENT BUSINESSES IN WRITING A MINIMUM OF TEN WORKING DAYS PRIOR TO PAVEMENT REMOVAL OR ANY PLANNED CONSTRUCTION THAT MAY LIMIT OR TEMPORARILY ELIMINATE ACCESS TO THEIR PROPERTY.
- ALL CONSTRUCTION ACTIVITIES SHALL TAKE PLACE BETWEEN THE HOURS OF 7:00 A.M. AND 7:00 P.M., MONDAY THROUGH SATURDAY. NO CONSTRUCTION ACTIVITIES, INCLUDING PAVEMENT SAW CUTTING WILL BE ALLOWED ON SUNDAYS, AND MONDAY THROUGH SATURDAY BETWEEN THE HOURS OF 7:00 P.M. AND 7:00 A.M. THE CONTRACTOR MAY REQUEST AN EXTENSION OF WORK HOURS. ANY EXTENSION OF WORK HOURS IS AT THE DISCRETION OF THE CITY OF DETROIT, CITY ENGINEERS OFFICE.
- PLACE R5-18c AND G20-2 AT ORLEANS AND ADELAIDE AT GRATIOT AS DIRECTED BY THE ENGINEER



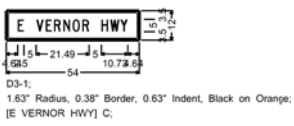
SPECIAL SIGN #1 DETAIL



SPECIAL SIGN #2 DETAIL



SPECIAL SIGN #9 DETAIL



SPECIAL SIGN #3 DETAIL

- LEGEND**
- DETOUR ROUTE
 - ① SIGN CLUSTER NUMBER
 - I TYPE III BARRICADE
 - ▨ WORK ZONE
 - ← ONE-WAY STREET (FLOW OF TRAFFIC)

PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED DATES: TIMES: BY: RRB

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED: WADETRIM 800 Greenbelt, Suite 2500 Detroit, MI 48226 313.961.3650 www.wadetrिम.com Building relationships on a foundation of excellence.

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446 DETOUR PLAN

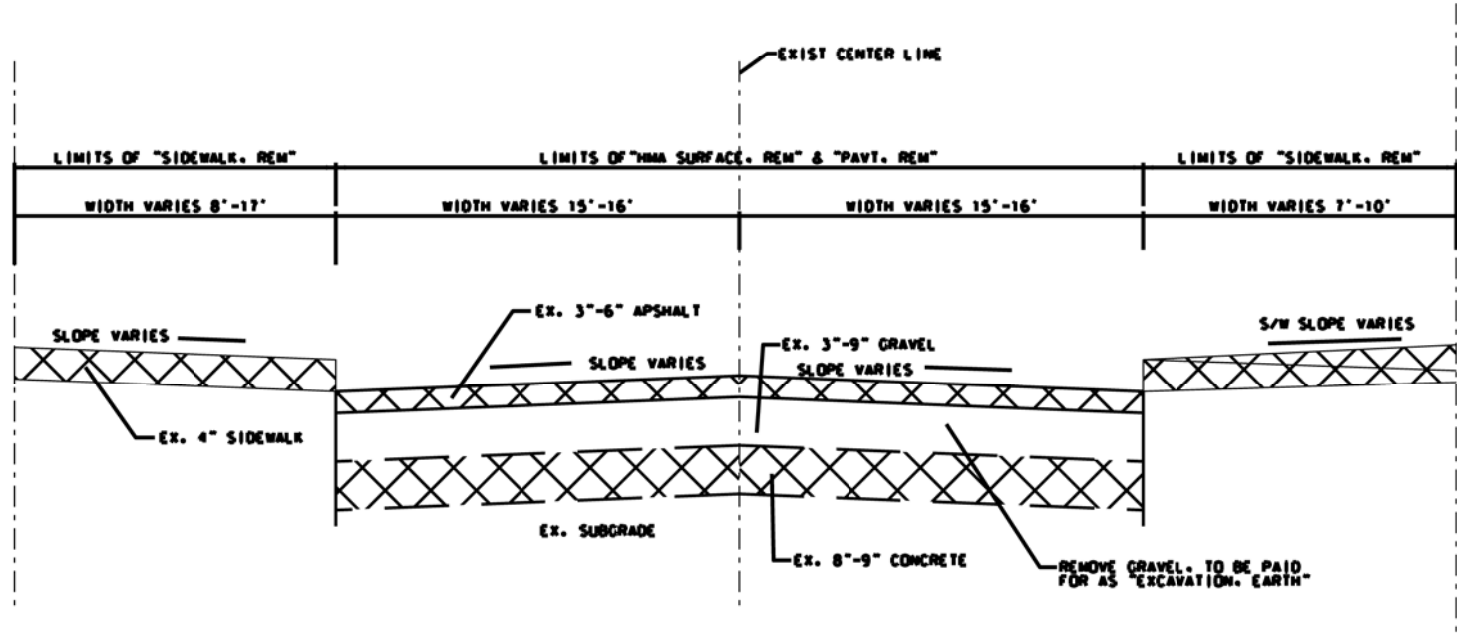
REV#	DATE	DESCRIPTION
REV-1	10/28/13	FOUNDATION REVISION

ISSUED FOR: DATE: BY:

JOB NO. **DTE 2025-09T**

SHEET **2** (409)

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EXISTING TYPICAL CROSS SECTION
STA 2+68.47 TO STA 4+86.56

REV.	DATE	DESCRIPTION	BY

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WADETRIM
500 Corporate Blvd #200
Detroit, MI 48226
313.981.3600
FAX: 313.981.0888
www.wadetrिम.com

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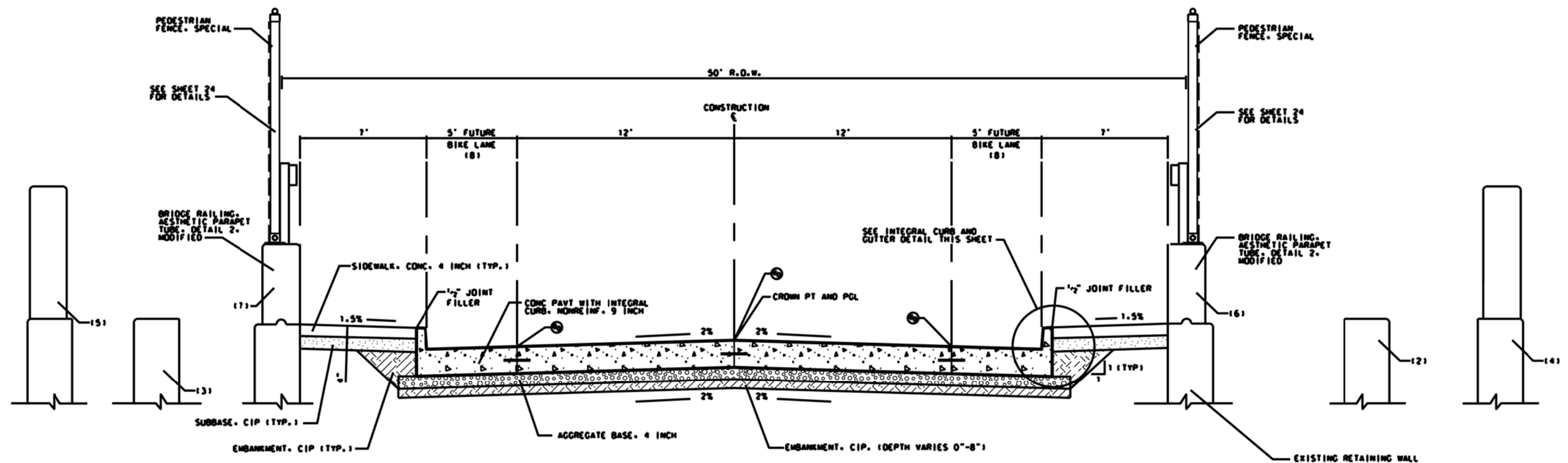
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446
EXISTING ROAD TYPICAL

ISSUED FOR: _____ DATE: _____ BY: _____

JOB NO.
DTE 2025-09T

SHEET
3
(410)

PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED: 04/24/2025 11:58 AM BY: BJS/ERS



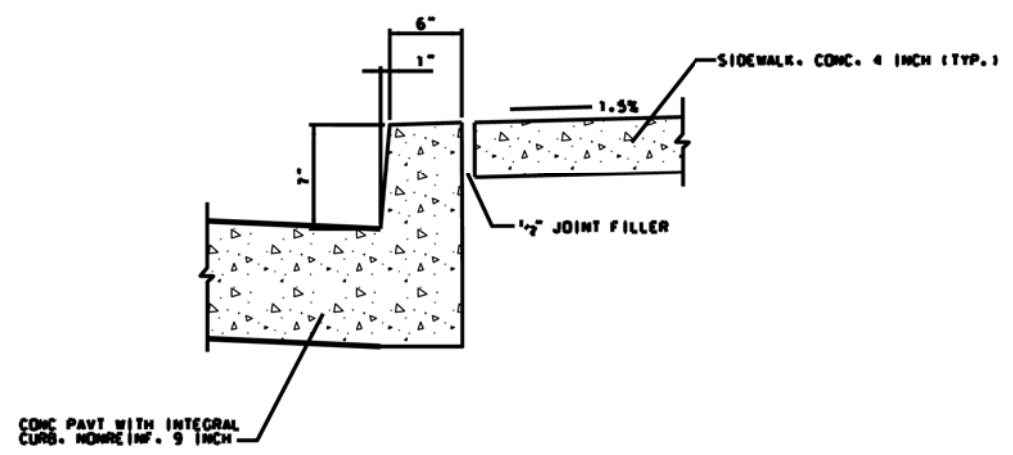
PROPOSED TYPICAL PAVEMENT SECTION
 STA 2+68.41 TO STA 4+86.55
 NOT TO SCALE

JOINT LEGEND

- ⊞ - LONGITUDINAL BULKHEAD JOINT, SEALED ACCORDING TO STANDARD PLAN R-42 SERIES, SYMBOL (8)
- ⊞ - LONGITUDINAL LANE TIE JOINT WITH TIE BARS, SEALED ACCORDING TO STANDARD PLAN R-42 SERIES, SYMBOL (10)

NOTES:

- (1) NO BARRIER STA 2+68.47 TO STA 3+47.06
- (2) NO BARRIER, FLUSH W/ GRADE STA 3+47.06 TO STA 3+56.51
- (3) NO BARRIER, FLUSH W/ GRADE STA 3+43.98 TO STA 3+56.51
- (4) PRECAST WALL W/ 3'-8 1/2" BARRIER STA 3+56.51 TO STA 3+69.60
- (5) PRECAST WALL W/ 3'-8 1/2" BARRIER STA 3+56.51 TO STA 3+69.60 AND STA 4+38.10 TO STA 4+55.10
- (6) @ BRIDGE - AESTHETIC PARAPET TUBE W/ PEDESTRIAN FENCE STA 3+69.60 TO STA 4+34.27
- (7) @ BRIDGE - AESTHETIC PARAPET TUBE W/ PEDESTRIAN FENCE STA 3+69.60 TO STA 4+38.10
- (8) WIDTH VARIES 2'-4" TO 5'-0" FROM STA 2+68.47 TO STA 3+18.41
 WIDTH VARIES 3'-0" TO 2'-4" FROM STA 4+53.01 TO STA 4+86.56
- (9) NO BARRIER STA 4+34.27 TO STA 4+86.55 (SOUTH SIDE)
 NO BARRIER STA 4+38.10 TO STA 4+86.55 (NORTH SIDE)



INTEGRAL CURB AND GUTTER, NONREINF. 9 INCH

	DESCRIPTION
	DATE
	REV. #
	BY

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WADETRIM

500 Griswold Street, Suite 2500
 Detroit, MI 48226
 313.961.3600
 FAX: 313.961.0888
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CITY ENGINEERING DIVISION
 ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446
 TYPICAL PAVEMENT SECTION

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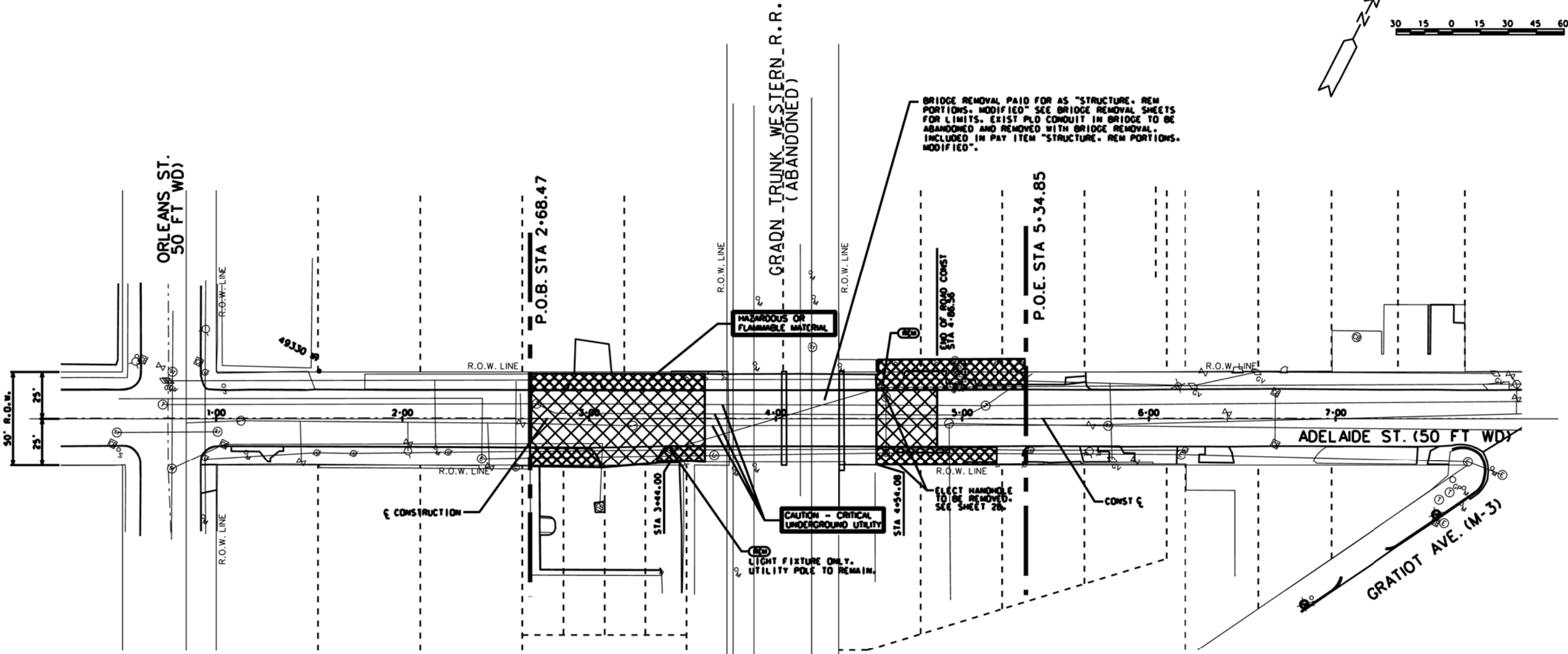
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SHEET **4**
(411)

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Know what's below.
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BRIDGE REMOVAL PAID FOR AS "STRUCTURE, REM PORTIONS, MODIFIED" SEE BRIDGE REMOVAL SHEETS FOR LIMITS. EXIST PLO CONDUIT IN BRIDGE TO BE ABANDONED AND REMOVED WITH BRIDGE REMOVAL. INCLUDED IN PAY ITEM "STRUCTURE, REM PORTIONS, MODIFIED".

HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION - CRITICAL UNDERGROUND UTILITY

LIGHT FIXTURE ONLY. UTILITY POLE TO REMAIN.

NOTES:

THE EXISTING CONCRETE PAVEMENT SHALL BE SAWED FULL DEPTH AND REMOVED IN A MANNER AS TO NOT DISRUPT OR DAMAGE THE EXISTING BUILDINGS. NO IMPACT TYPE EQUIPMENT SHALL BE USED.

REMOVAL QUANTITIES THIS SHEET

331	SYD	SIDEWALK, REM
486	SYD	HMA SURFACE, REM
486	SYD	PAVT, REM
550	CYD	EXCAVATION, EARTH

	SIDEWALK, REM
	HMA SURFACE, REM AND PAVT, REM

WORK THIS SHEET WITH SHEET 28.

REV.	DATE	DESCRIPTION	BY

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313.961.3650
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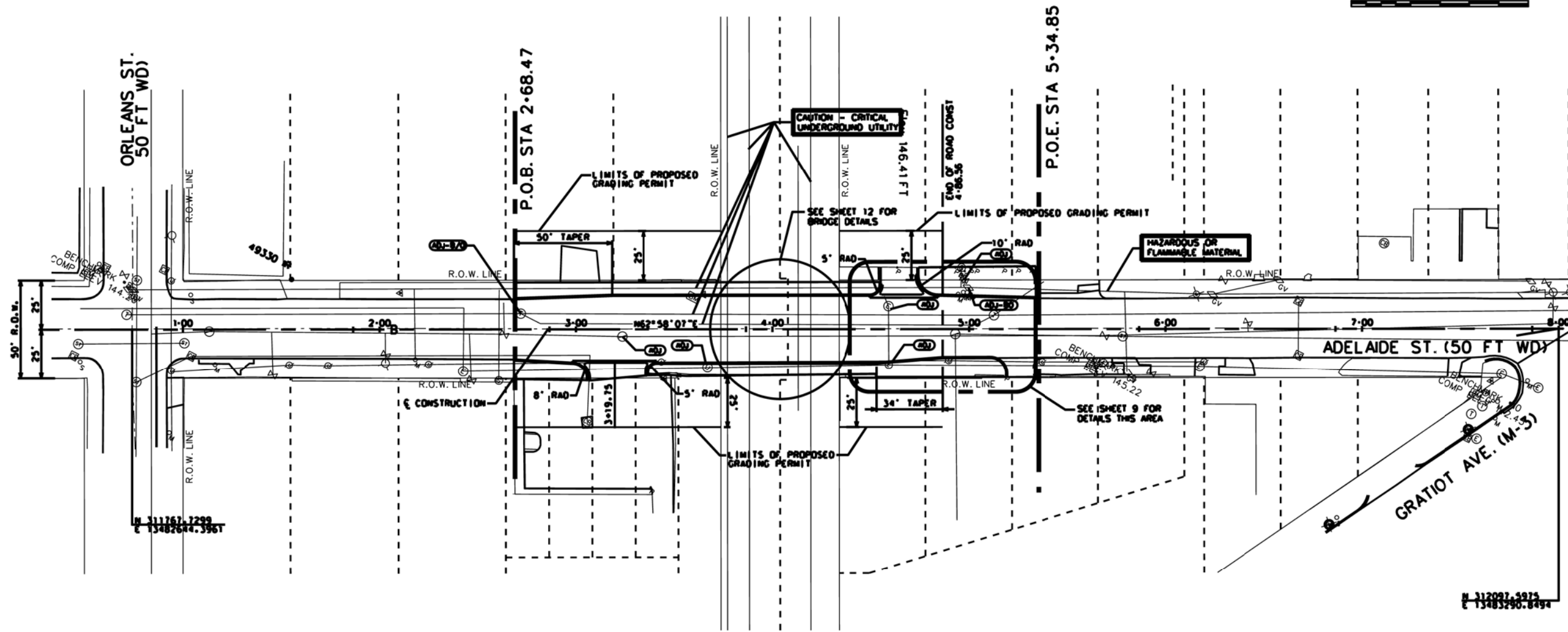
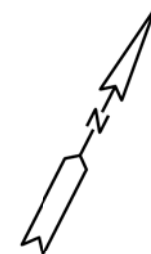
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CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446
ROAD REMOVAL PLAN

ISSUED FOR:	DATE:	BY:
JOB NO. DTE 2025-09T		
SHEET 5 (412)		

BENCHMARKS

- BM*8: ARROW ON HYDRANT, NORTH WEST CORNER OF ORLEANS AND ADELAIDE EL. 144.20
- BM*9: ARROW ON HYDRANT SOUTH SIDE OF ADELAIDE, FIRST HYDRANT EAST OF BRIDGE EL. 145.22
- BM*10: NORTH BOLT AT STRAIN POLE AT SOUTH WEST CORNER OF DELAIDE AND GRATIOT EL. 146.83



H 112097-3075
E 13483290-8494

NOTE:
ADJUSTMENT OF WATER SERVICE LEAD TO BE
PAID FOR AS "WATER SHUTOFF, ADJ. CASE 2".

DRIVEWAY QUANTITIES THIS SHEET

STATION	PROPOSED DRIVE TOP WIDTH (FT)	DRIVEWAY, MONREINF CONC. 6 INCH (5YD)	PROPOSED DRIVE WIDTH AT CURB (FT)
3+19.75 RT	29.50	30	43.25
4+49.59 LT	18.50	30	35.00
TOTAL		60	

CONSTRUCTION QUANTITIES THIS SHEET

- 248 CYD EMBANKMENT, CIP
- 52 CYD SUBBASE, CIP
- 870 SYD AGGREGATE BASE, 4 INCH
- 853 SYD CONC PAVT WITH INTEGRAL CURB, MONREINF, 9 INCH
- 3880 SFT SIDEWALK, CONC, 4 INCH
- 620 FT JOINT CONTRACTION, CP
- 79 FT DRIVEWAY OPENING, CONC, DET M
- 1 EA GATE BOX, ADJ. CASE 1
- 3 EA HW. ADJ
- 2 STA MACHINE GRADING
- 90 FT CURB, CONC, DET E2
- 7 TON HMA PATCHING
- 1 EA WATER SHUTOFF, ADJ. CASE 2

PROJECT MANAGER - FILEL3

PLOTTED - DATES - TIMES - BY - BUSER



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WADETRIM
 500 Griswold, Suite 2500
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 TEL: 313.961.0988
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 www.wadefirm.com

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 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION
 ADELAIDE ST. OVER DEQUINDE CUT S.N. 12446
 ROAD CONSTRUCTION SHEET

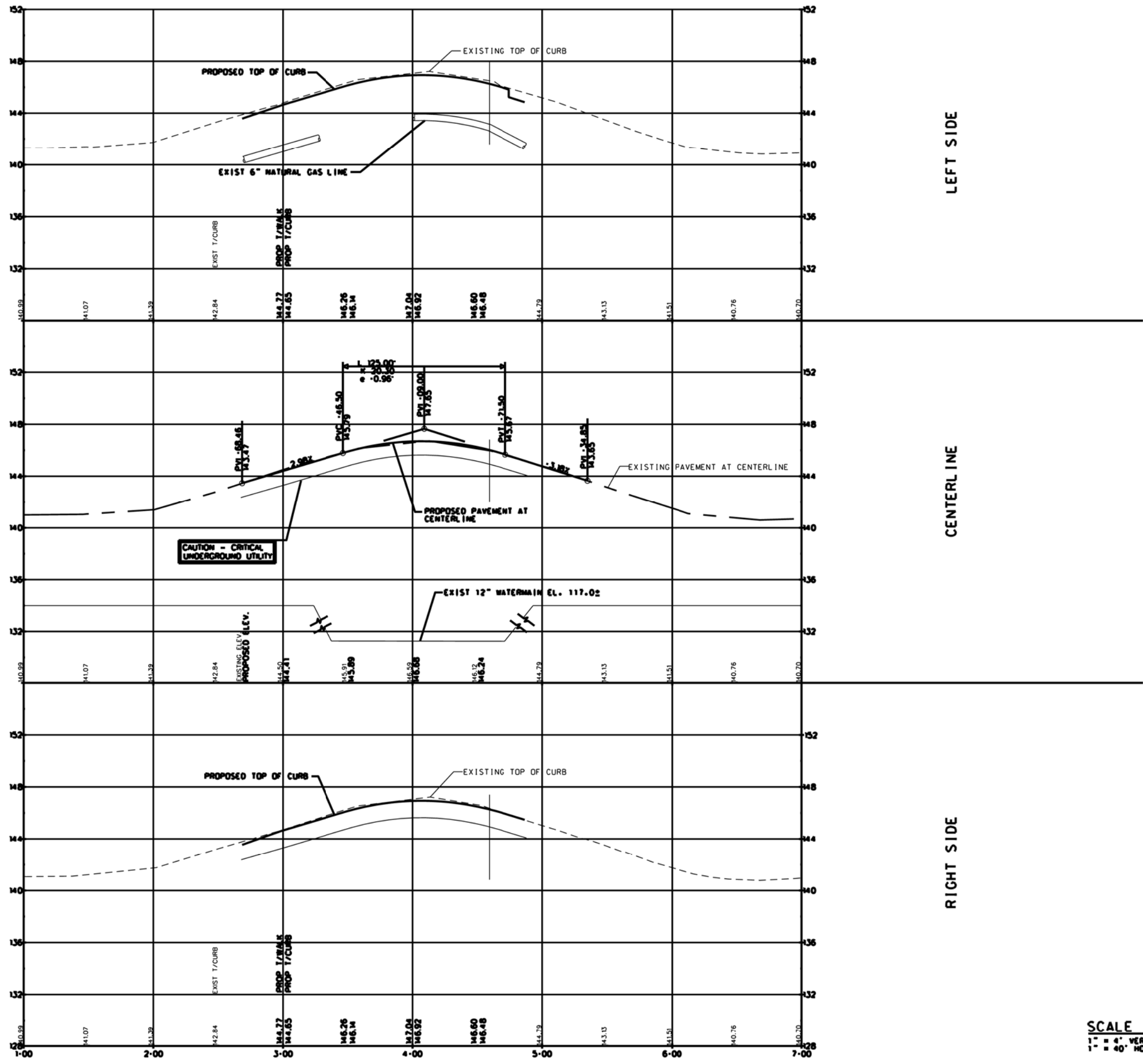
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JOB NO.
DTE 2025-09T

SHEET
6
(413)

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PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED DATES: BY: USERS:



SCALE
 1" = 4' VERT
 1" = 40' HORIZ

**CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION
 ADELAIDE ST. OVER DEQUINDE CUT S.N. 12446
 ROAD PROFILE SHEET**

ISSUED FOR: DATE: BY:

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SHEET
 7
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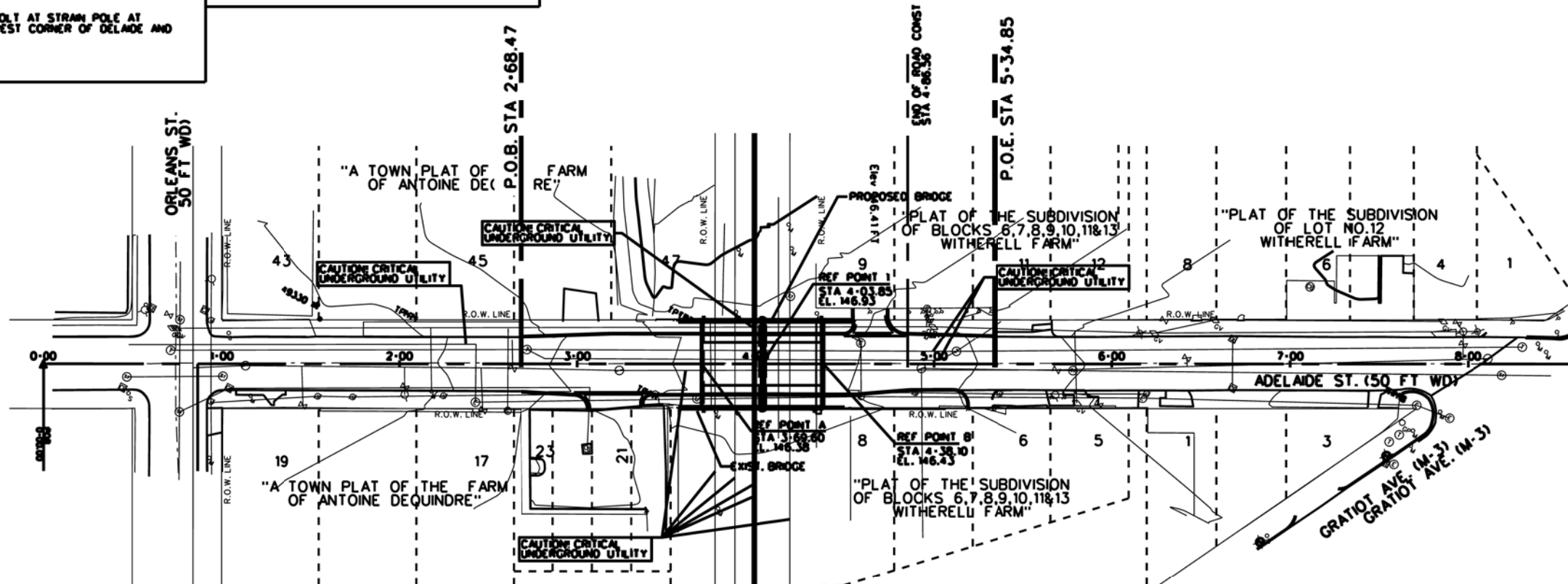
REV#	DATE	DESCRIPTION	BY

BENCHMARKS

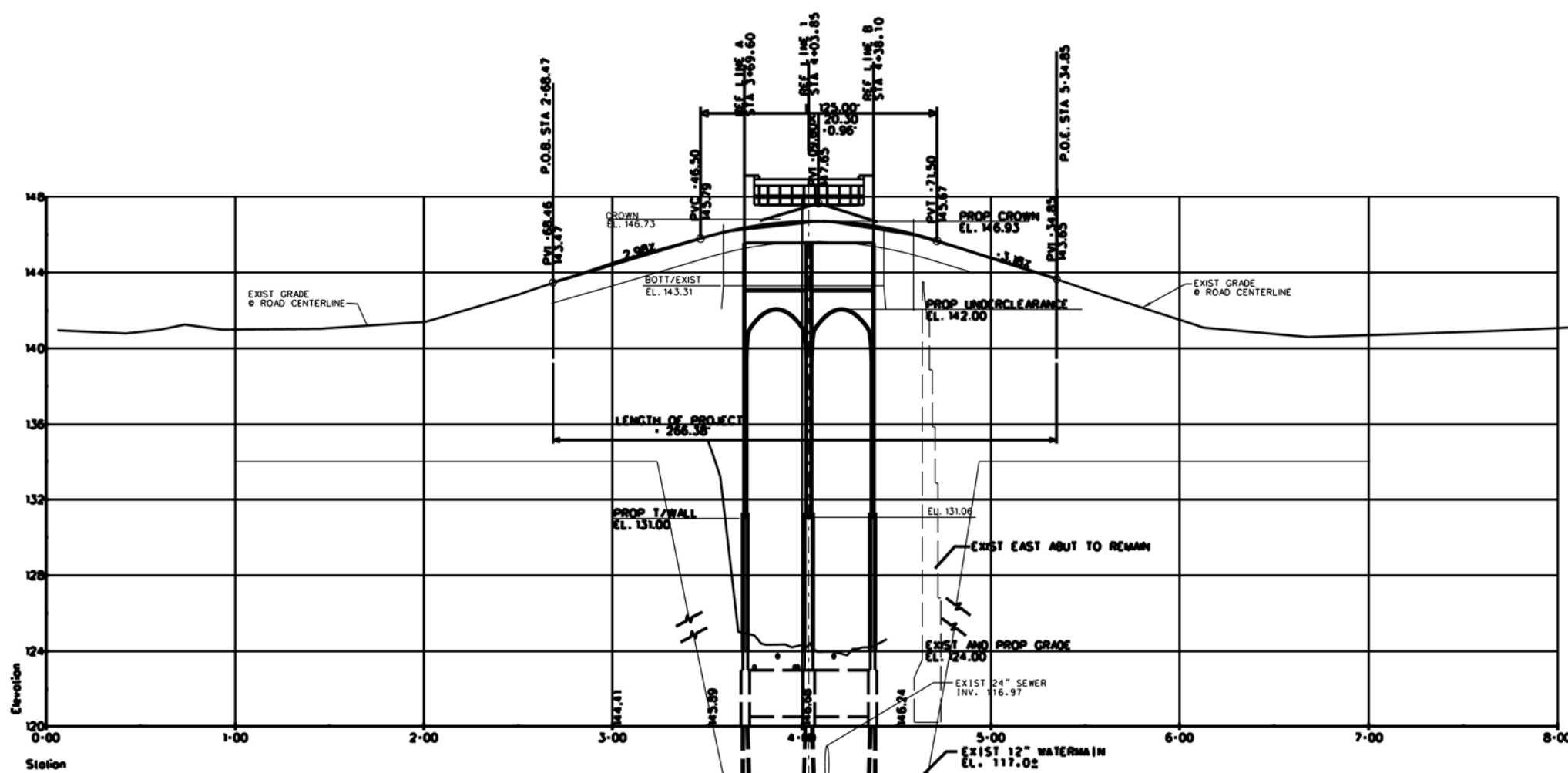
BM#8: ARROW ON HYDRANT, NORTH WEST CORNER OF ORLEANS AND ADELAIDE EL. 144.20
 BM#9: ARROW ON HYDRANT SOUTH SIDE OF ADELAIDE, FIRST HYDRANT EAST OF BRIDGE EL. 145.22
 BM#10: NORTH BOLT AT STRAIN POLE AT SOUTH WEST CORNER OF DELAIDE AND GRATIOT EL. 146.83

EXISTING STRUCTURE

EXISTING BRIDGE IS A 3-SPAN, CONCRETE ENCASED STEEL BEAM WITH CONCRETE DECK, CINDER FILL, AND CONCRETE SURFACE AND HMA OVERLAY. THERE ARE CONCRETE PIERS AND ABUTMENTS ON SPREAD FOOTINGS. THE ORIGINAL BRIDGE WAS CONSTRUCTED APPROXIMATELY 1930.



SITE PLAN
SCALE: 1"=40'



PROFILE
SCALE: VERT 1"=4'
HORIZ 1"=40'

NOTES

THE WORK COVERED BY THESE PLANS INCLUDES REMOVAL OF EXISTING BRIDGE, MAINTAINING TRAFFIC, CONSTRUCTION OF THE PROPOSED BRIDGE AND APPROACHES TO THE LIMITS SHOWN.
 THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
 ADELAIDE TRAFFIC IS TO BE DETOURED OVER OTHER EXISTING ROADS.
 PLAN ELEVATIONS REFER TO CITY OF DETROIT DATUM.
 DTE ELECTRIC AND GAS AND ATT CONDUITS SHALL BE RELOCATED BY OTHERS. CONTRACTOR SHALL COORDINATE HIS WORK WITH THEIR ACTIVITIES.

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10/28/13		FOUNDATION REVISION

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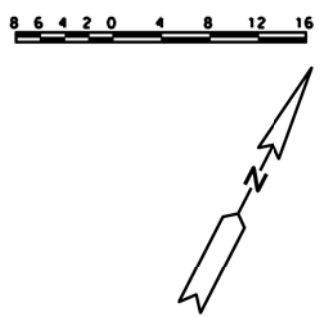
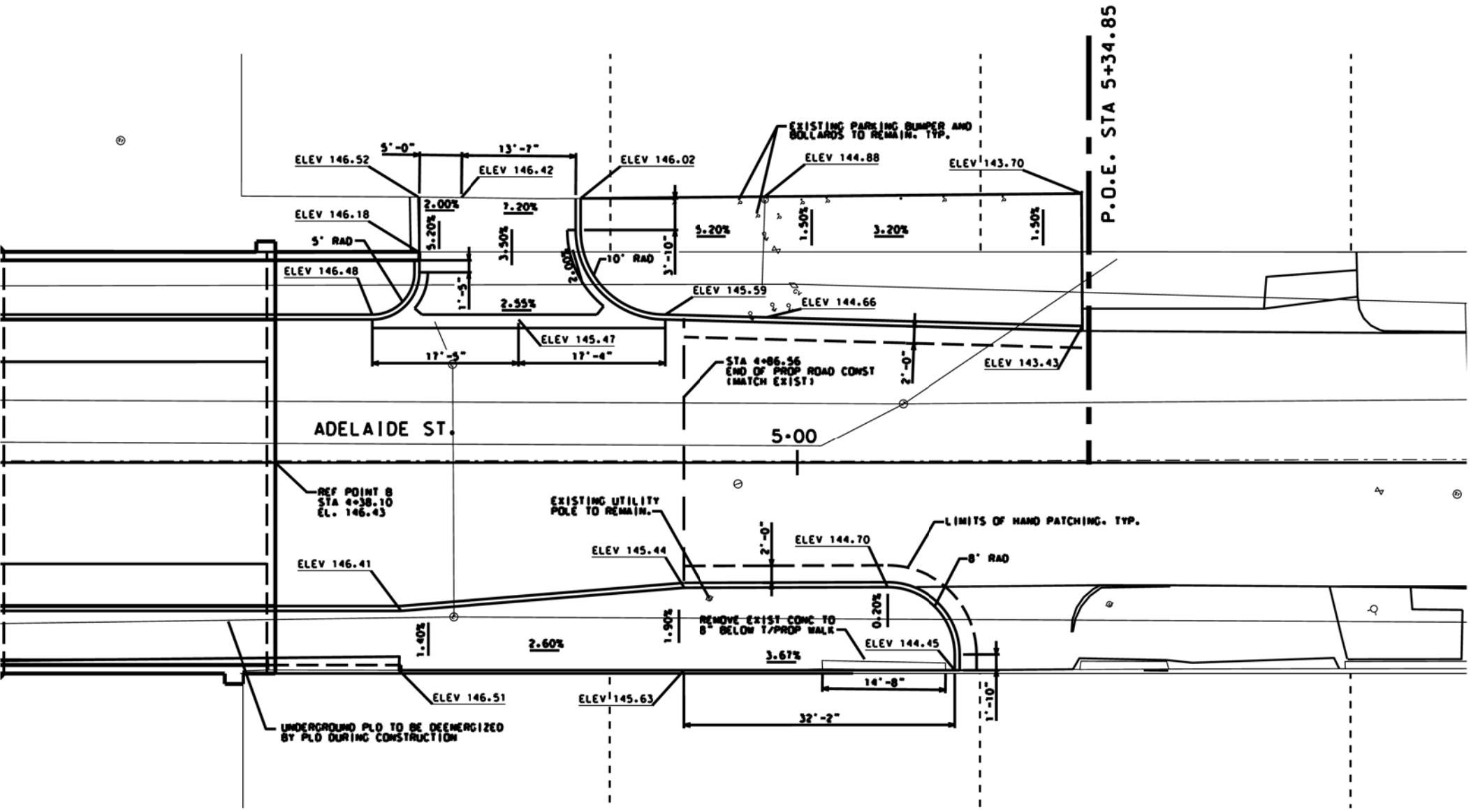
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
 ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446
 PLAN OF SITE

ISSUED FOR: DATE: BY:
 JOB NO. **DTE 2025-09T**
 SHEET
 8
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PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED DATES: TIMES: BY: USERS: \$FILES

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PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED: DATES: TIMES: BY: USERS:

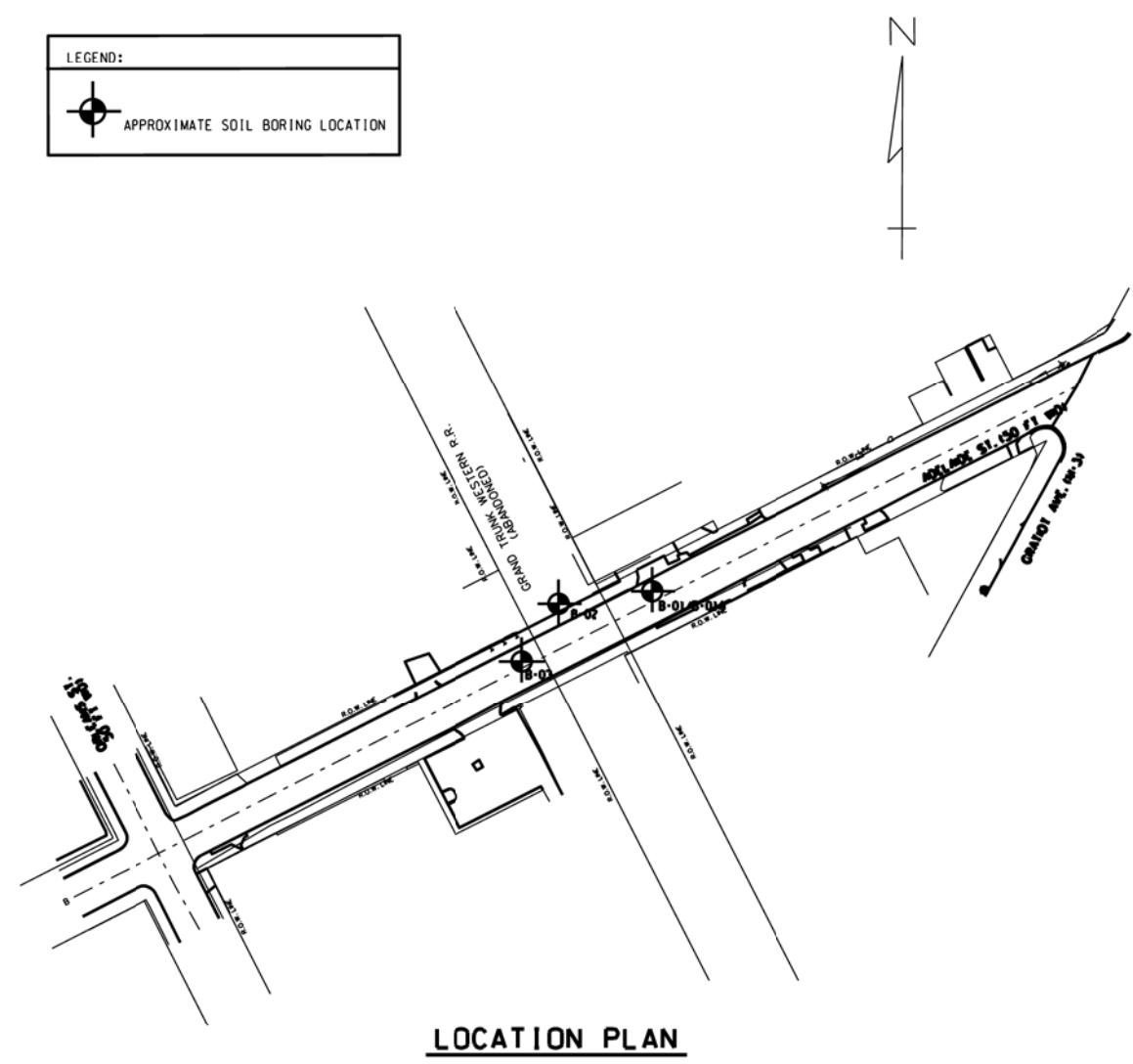
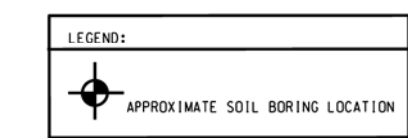
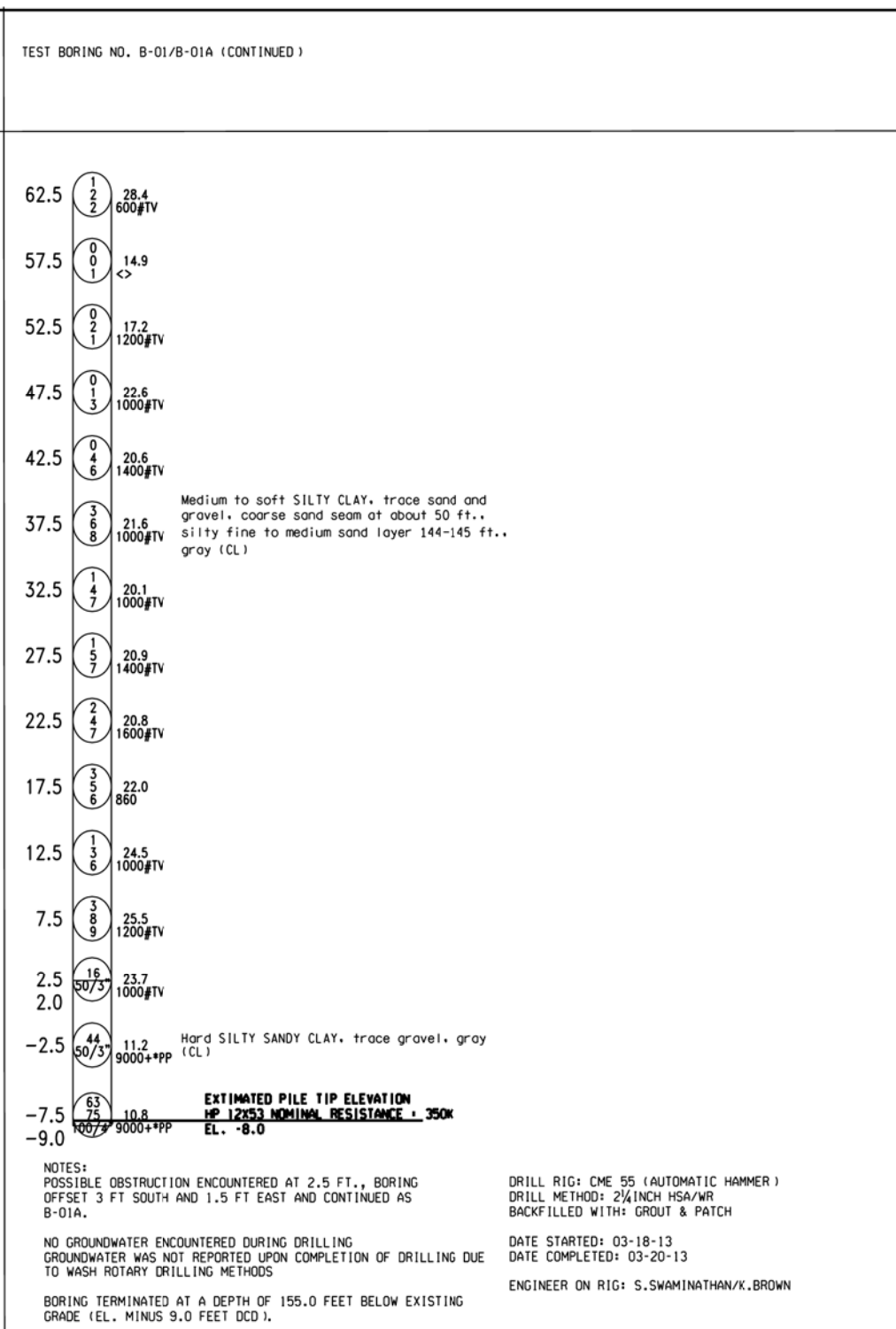
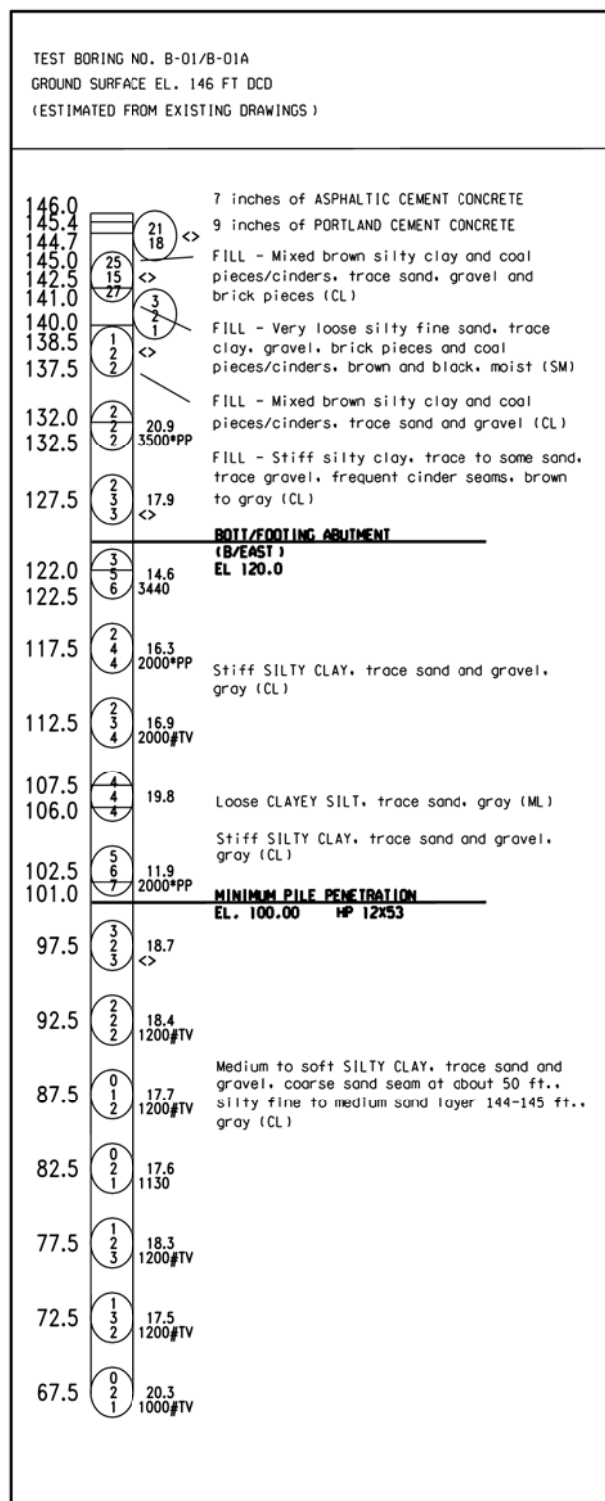


PARTIAL PLAN

NOTE:
FOR QUANTITIES THIS AREA, SEE SHEET 6

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<p>CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION</p> <p>ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446 GRADING DETAIL SHEET</p>	
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JOB NO. DTE 2025-09T	
SHEET 9 (416)	
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PROJECT MANAGER: SELEK FIELD BOOK INFORMATION: PLOTTED SIZES BY SUSERS



1ST 6 inch 13 % MC
2ND 6 inch 16 UCS (PSF)
3RD 6 inch 14

NUMBERS IN CIRCLES DENOTE NUMBER OF BLOWS REQUIRED TO DRIVE A 2 inch O.D. (1 1/2 inch I.D.) SPLIT SPOON SAMPLER 3 SUCCESSIVE 6 inch INCREMENTS USING A 140 LB HAMMER FALLING 2.5 ft.

LABORATORY AND FIELD TEST RESULTS SHOWN INDICATE:

MC - MOISTURE CONTENT (PERCENT)
UCS - UNCONFINED COMPRESSIVE STRENGTH LABORATORY DETERMINED POUNDS/SO.FT (PSF)
#PP UNCONFINED COMPRESSIVE STRENGTH USING POCKET PENETROMETER POUNDS/SO.FT (PSF)
#TV UNCONFINED COMPRESSIVE STRENGTH USING TORVANE TEST POUNDS/SO.FT (PSF)
± R DISTURBED SAMPLE

NR NO RECOVERY

37/0 WHERE THE SAMPLER IS DRIVEN DISTANCES OTHER THAN 18 inches, THE DISTANCE IS SHOWN IN THE CIRCLE WITH THE NUMBER OF BLOWS IN THE FORM OF A FRACTION. (DISTANCE IS IN INCHES).

CONSISTENCY WAS DETERMINED BY INSPECTION OF SAMPLES AND SUBSTANTIATED BY SOIL RESISTANCE TO DRILLING TOOLS (CASING OR AUGER). UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) GROUP SYMBOL DETERMINED PER ASTM VISUAL-MANUAL PROCEDURES.

GROUNDWATER LEVELS REPRESENT THE CONDITIONS AT THE TIME THE MEASUREMENTS WERE OBTAINED AND SHOULD BE EXPECTED TO FLUCTUATE THROUGHOUT THE YEAR. GROUNDWATER LEVELS MAY ALSO BE INFLUENCED BY RESIDUAL BORING WATER.

THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT THE SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.



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LOG OF BORING

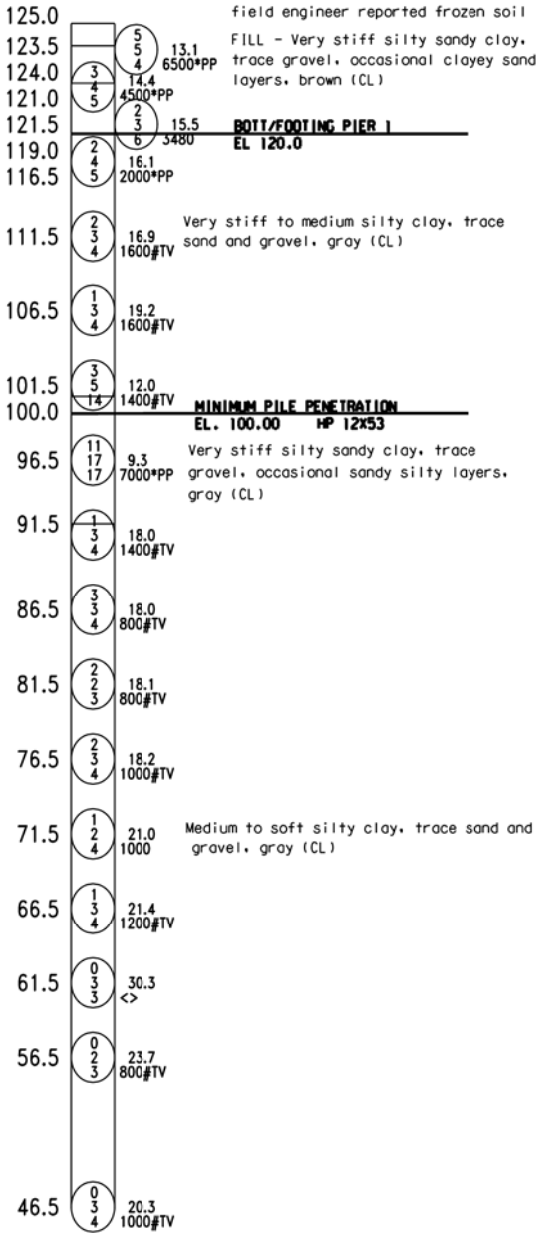
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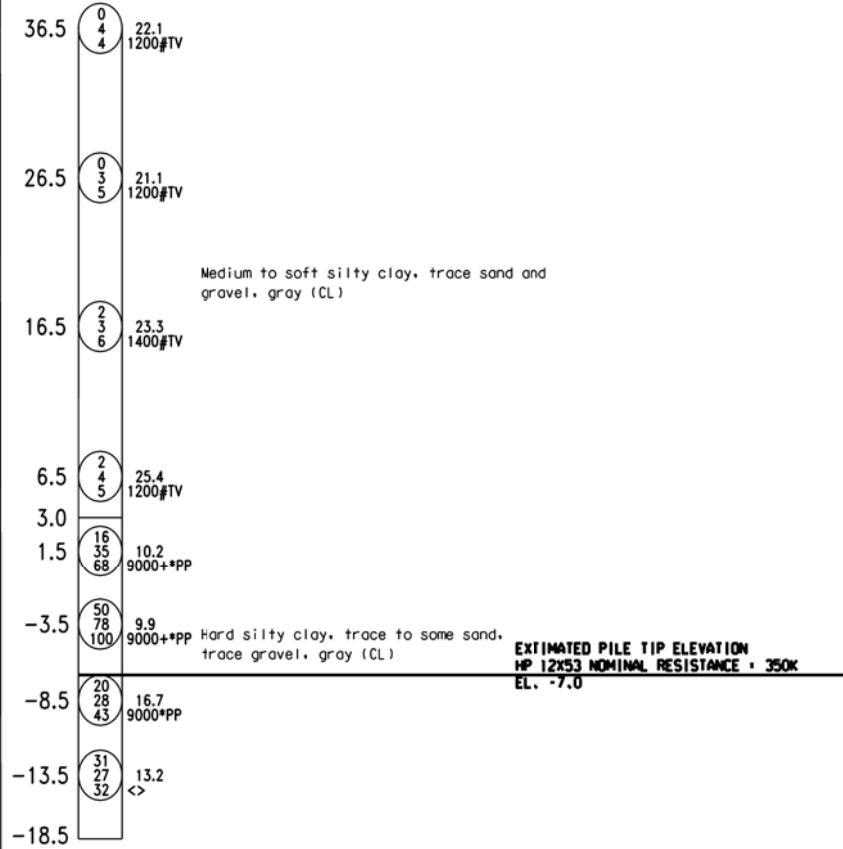
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TEST BORING NO. B-02
GROUND SURFACE EL. 125 FT DCD
(ESTIMATED FROM EXISTING DRAWINGS)



TEST BORING NO. B-02 (CONTINUED)



ESTIMATED PILE TIP ELEVATION
HP 12X53 NOMINAL RESISTANCE = 350K
EL. -7.0

NOTES:
NO GROUNDWATER ENCOUNTERED DURING DRILLING

GROUNDWATER WAS NOT REPORTED UPON COMPLETION OF DRILLING DUE TO WASH ROTARY DRILLING METHODS

BORING TERMINATED AT A DEPTH OF 143.5 FEET BELOW EXISTING GRADE (EL. MINUS 18.5 FEET DCD), BORING TERMINATED ON POSSIBLE BEDROCK.

DRILL RIG: CME 44 (AUTOMATIC HAMMER)
DRILL METHOD: 2 1/4 INCH HSA/WR
BACKFILLED WITH: GROUT & PATCH

DATE STARTED: 03-04-13
DATE COMPLETED: 03-04-13

ENGINEER ON RIG: S.SWAMINATHAN/J.KUNZLER

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2ND 6 inch 16 UCS (PSF)
3RD 6 inch 14

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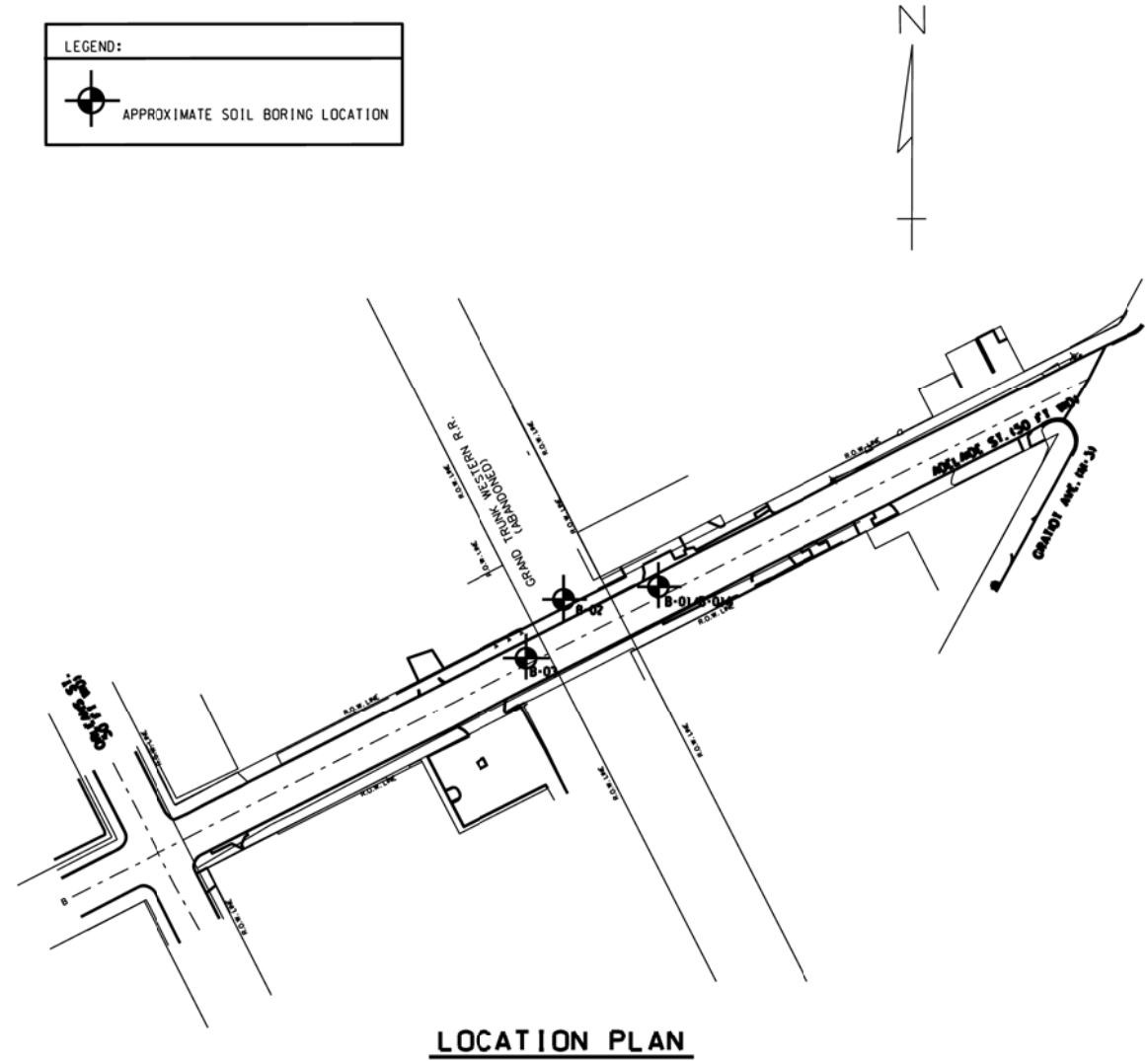
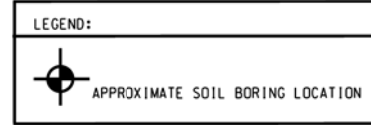
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LOG OF BORING

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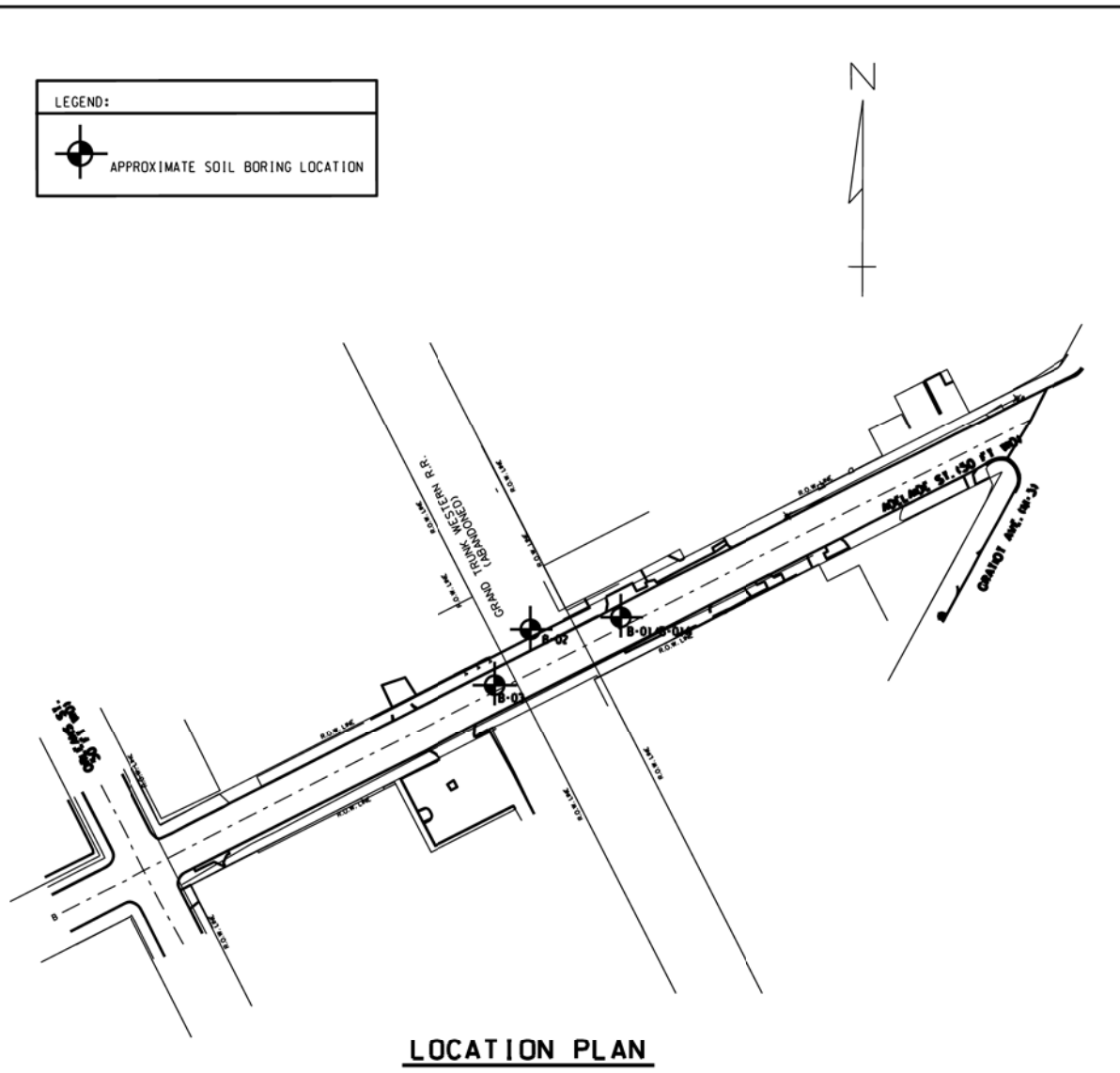
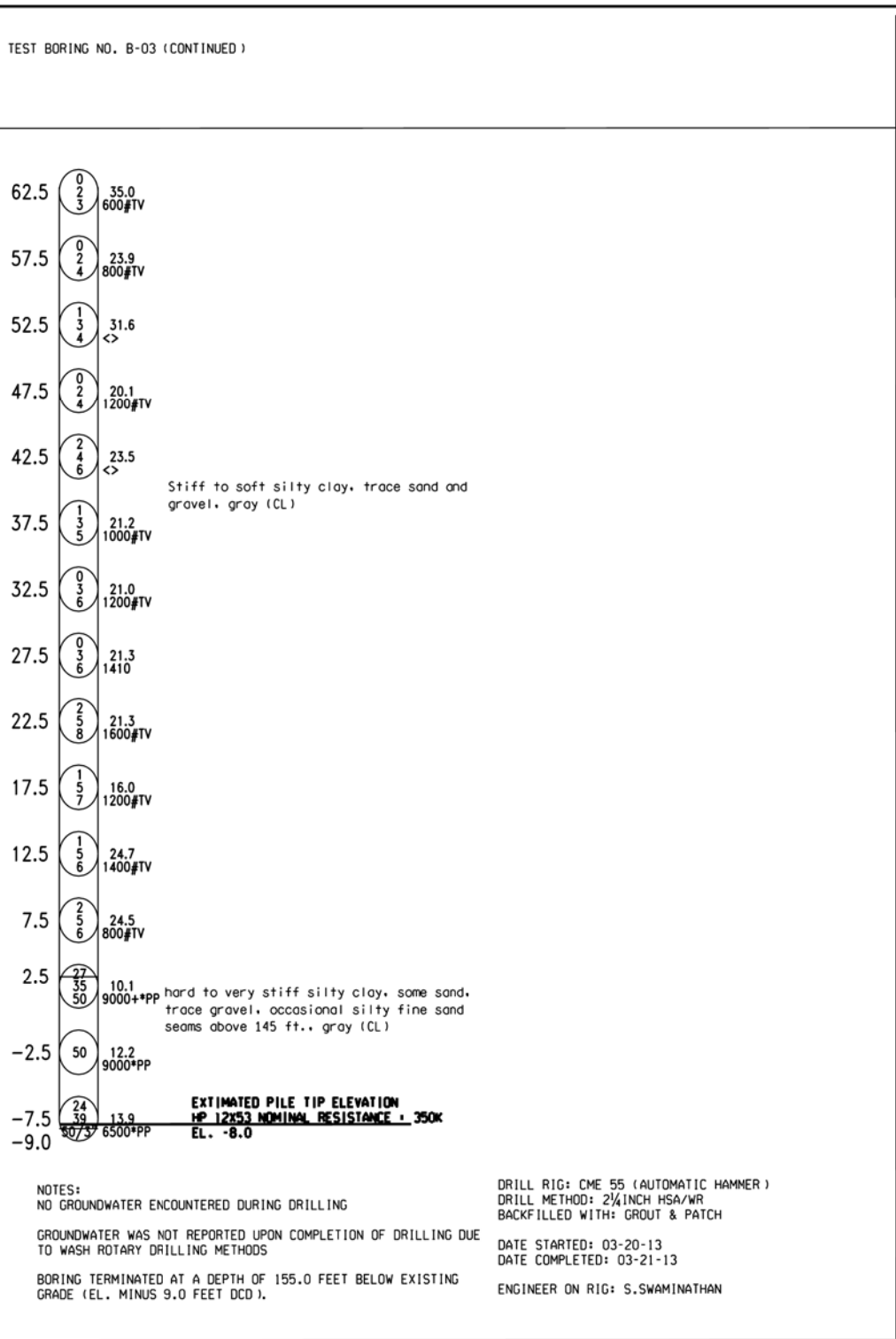
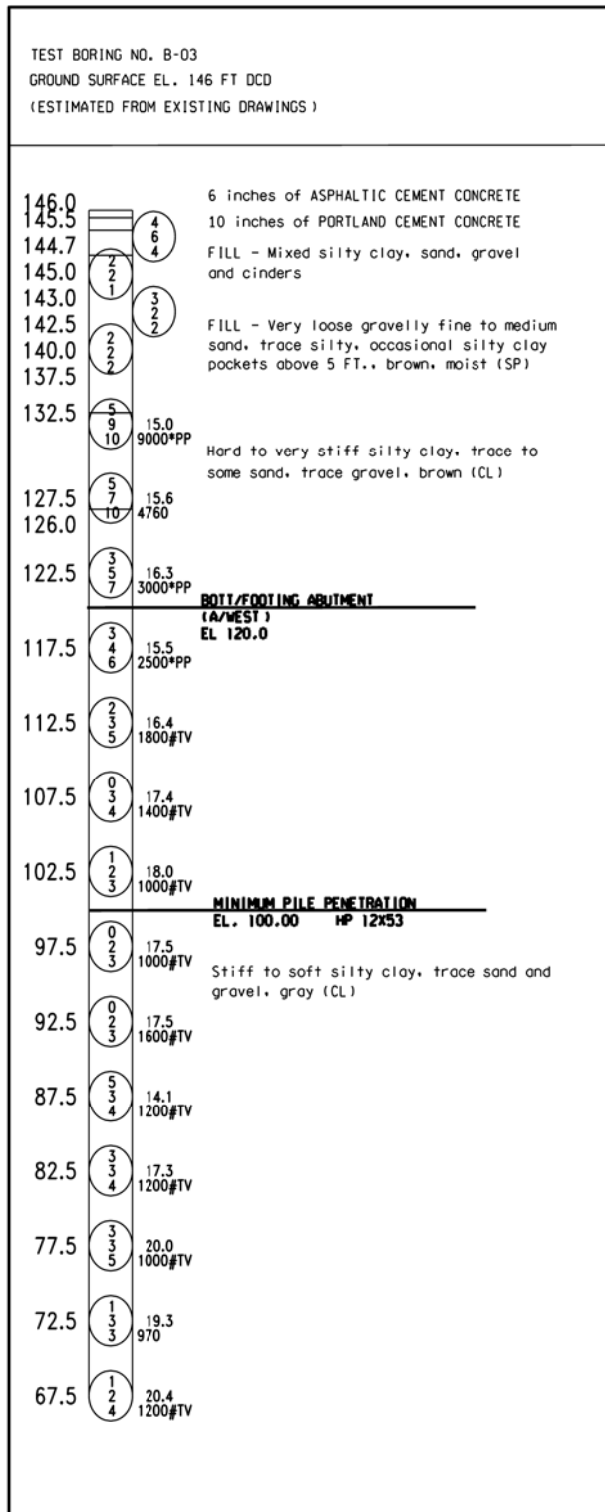
DESCRIPTION

DATE

BY

Somat Engineering, INCORPORATED

PROJECT MANAGER: -
FIELD BOOK INFORMATION: -
PLOTTED DATES: -
BY: -



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3RD 6 inch 14

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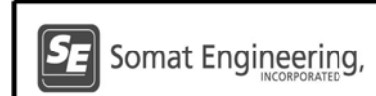
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CITY ENGINEERING DIVISION
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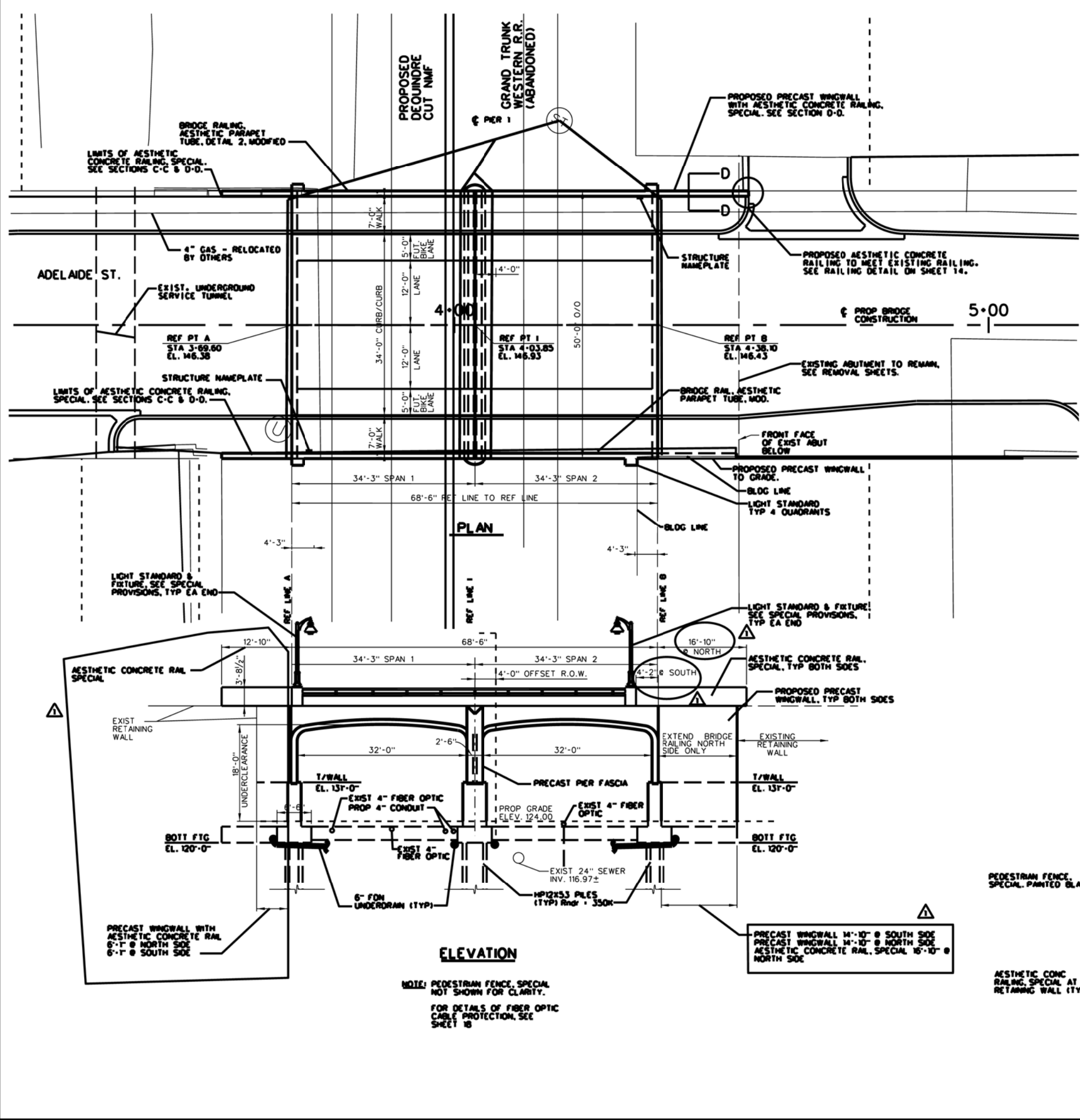
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SHEET 12 (419)

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PROJECT MANAGER: SHEETS PLOTTED DATES TIMES BY: USERS



NOTES:

THE DESIGN OF THIS STRUCTURE IS BASED ON 1.2 TIMES THE CURRENT AASHTO LRFD BRIDGE DESIGN SPECIFICATION H-93 LOADING WITH THE EXCEPTION THAT THE DESIGN TANDEM PORTION OF THE H-93 LOAD DEFINITION SHALL BE REPLACED BY A SINGLE 60 KIP AXLE LOAD BEFORE APPLICATION OF THIS 1.2 FACTOR. THE RESULTING LOAD IS DESIGNATED H-93 MOD. LIVE LOAD PLUS DYNAMIC LOAD ALLOWANCE. DEFLECTION DOES NOT EXCEED 1/1000 OF SPAN LENGTH.

CONCRETE SURFACE COATING SHALL BE APPLIED TO EXPOSED FACES OF RAILING, ARCH FASCIAS AND PIER FASCIA. EXPOSED RETAINING WALLS AND BRIDGE RAILING SHALL ALSO BE COATED. SEE DETAIL SHEETS FOR LIMITS OF COVERAGE.

EXISTING BRIDGE NAMEPLATES ARE TO BE SALVAGED ON SITE AND SHALL BE GIVEN TO THE ENGINEER AND BECOME THE PROPERTY OF THE CITY OF DETROIT.

SEE REMOVAL SHEETS FOR LIMIT OF EXISTING STRUCTURE, REMOVALS. REMOVAL OF BRIDGE SUPERSTRUCTURE, CONCRETE PIERS AND CONCRETE ABUTMENTS SHALL BE PAID FOR AS "STRUCTURE, REM PORTIONS, MODIFIED".

REMOVAL OF PORTIONS OF CONCRETE RETAINING WALL SHALL BE PAID FOR AS "STRUCTURE, REM PORTIONS, MODIFIED".

EXISTING PLANS INDICATE ALL PILES OMITTED (SEE SHEET 16). IF EXISTING TIMBER PILES ARE LOCATED WITHIN THE PROPOSED FOOTINGS, THE CONTRACTOR SHALL DO THE FOLLOWING WORK:

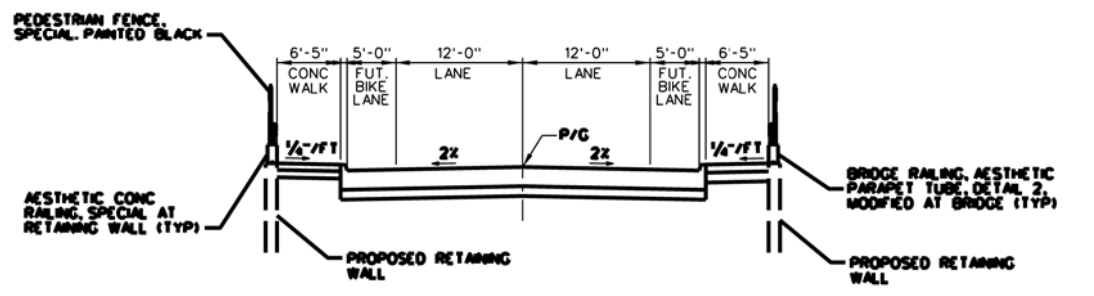
- IF THE EXISTING PILE IS IN CONFLICT WITH PROPOSED PILING, IT SHALL BE REMOVED.
- IF EXISTING PILE IS NOT IN CONFLICT WITH PROPOSED, THE EXISTING PILE SHALL BE CUT DOWN 6'-0" BELOW BOTTOM OF PROPOSED FOOTING.

REMOVAL OF EXIST PILES SHALL BE PAID FOR AS "PILE, TIMBER, REM CUTTING DOWN OF PILES SHALL BE INCLUDED IN THE PAY ITEM "STRUCTURES, REM PORTIONS, MODIFIED".

SEE SPECIAL PROVISION ON FIBER OPTIC COORDINATION AND PROTECTION. SEE SHEET 19 FOR SLEEVE DETAIL.

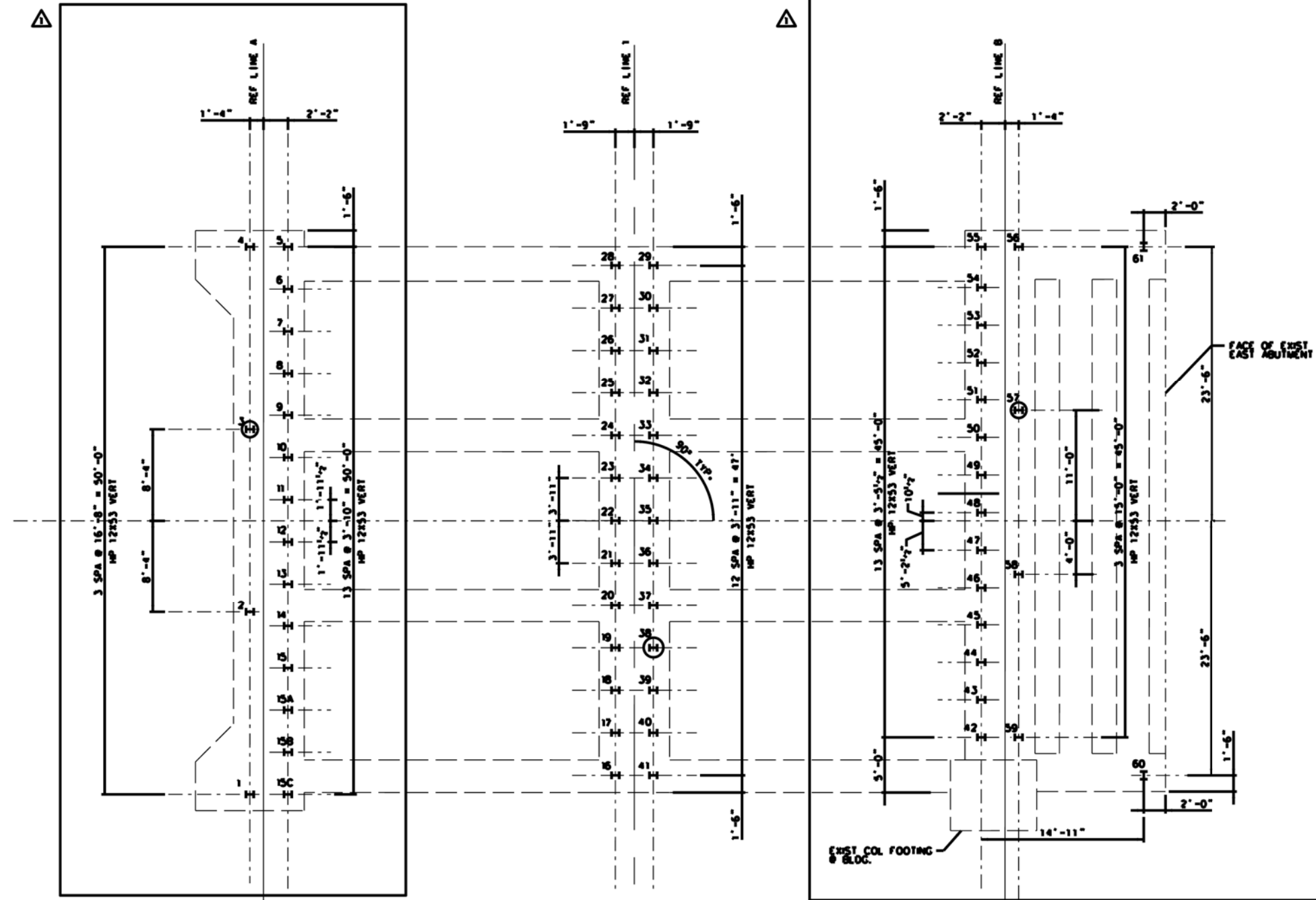
CONDUITS IN BRIDGE MAY BE ASBESTOS. CONTRACTOR SHALL CONFIRM.

MISCELLANEOUS QUANTITIES		
5000	DLR	ASBESTOS MATERIALS, REMOVAL AND DISPOSAL
1	LS	AUDIO-VISUAL FILMING (SN 12446)
1	LS	PROJECT CLEANUP (SN 12446)
1	LS	STRUCTURES, REM PORTIONS, MODIFIED (SN 12446)
1185	CYD	BACKFILL, STRUCTURE, CP
691	CYD	EXCAVATION, FOM
3	EA	EROSION CONTROL, INLET PROTECTION, FABRIC DROP
450	FT	EROSION CONTROL, S&T FENCE
10	SYD	SLOPE RESTORATION, TYPE A
200	FT	UNDERDRAIN, FOM, 6 INCH
95	FT	UNDERDRAIN, OUTLET, 6 INCH
3	EA	DR STRUCTURE, TAP, 6 INCH
20	EA	TIMBER, PILE, REM
150	CYD	NON-HAZARDOUS CONTAMINATED MATERIAL HANDLING AND DISPOSAL, LM
1	LS	RELOCATION AND SITE CLEANUP (SN 12446)
1	LS	COORDINATION, FIBER OPTIC LINE, (SN 12446)
15	EA	PROTECTION, FIBER OPTIC LINE, BRIDGE



APPROACH SECTION

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION
 ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446
 GENERAL PLAN OF STRUCTURE
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 SHEET 13 (420)
 PROJECT MANAGER: SHEETS PLOTTED DATES TIMES BY: USERS
 ADELAIDE STREET BRIDGE



PILE PLAN

LEGEND

- H -- DENOTES VERTICAL PILES.
- (H) -- DENOTES VERTICAL TEST PILES.

MISCELLANEOUS QUANTITIES

1	LS	PILE DRIVING EQUIPMENT, FURN (SN 12446)
8196	PT	PILE, STEEL, FURN AND DRIVEN, 12 INCH
3	EA	TEST PILE, STEEL, 12 INCH
64	EA	PILE POINT, STEEL
1	EA	TEST PILE, FURN DYNAMIC ANALYSIS EQUIPMENT
3	EA	TEST PILE, DYNAMIC ANALYSIS
1	LS	MONITORING VIBRATIONS (SN 12446)
205	EA	PILE, STEEL, SPLICE

NOTES:

DRIVE ALL PILES TO A NOMINAL PILE DRIVING RESISTANCE NOT LESS THAN OF 350 KIPS, NEGLECTING DOWNDRAG (270 KIPS INCLUDING DOWNDRAG). DETERMINE NOMINAL PILE DRIVING RESISTANCE (R_{NO}) USING DYNAMIC TEST WITH SIGNAL MATCHING (P.O.A. TESTING).

THE ESTIMATED PILE LENGTH IS BASED ON THE STATIC ANALYSIS.

STEEL PILES SHALL BE HP 12X53.

PILES ARE TO BE DRIVEN TO SUCH ACCURACY THAT THE ENDS OF THE PILES TO BE EMBEDDED IN THE CONCRETE ARE WITHIN 3" OF THE LOCATION SHOWN ON THE PLANS.

USE STEEL FOR H-PILES THAT HAVE A YIELD STRENGTH NOT LESS THAN 50,000 PSI.

THE ESTIMATED FACTORED DOWNDRAG AFTER PILE DRIVING IS 80 KIPS. THE REDUCED FACTORED RESISTANCE (R_{STO}) INCLUDING POTENTIAL FOR DOWNDRAG WITH POA VERIFICATION IS 175 KIPS.

ALL PILES SHALL BE PREPARED TO EL. 103'-0" OR MINIMUM TEN FEET BELOW WATERMAIN INVERT, WHICHEVER IS LOWER. FILL PREPARE WITH FLOWABLE FILL AFTER INSTALLATION.

ALL PILES SHALL BE DRIVEN WITH PROTECTIVE CAST STEEL PILE POINTS. SEE SPECIAL PROVISION FOR DETAILS.

ESTIMATED PILE TIP ELEVATIONS:

- ABUTMENT A = EL. 2.00 FT
- PIER 1 = EL. -3.00 FT
- ABUTMENT B = EL. 2.00 FT

STEEL H-PILES: HP 12X53

LOCATION	PILE TYPE	NUMBER OF PILES	ESTIMATED LENGTH FURNISHED & DRIVEN		PILE POINTS (EACH)	SPLICES (EACH)	CUT-OFF ELEV.
			EACH LFT	TOTAL LFT			
ABUT A	TEST	1	138	138	1		120'-6"
	VERTICAL	17	128	2176	17		120'-6"
PIER 1	TEST	1	137	137	1		120'-6"
	VERTICAL	25	127	3175	25		120'-6"
ABUT B	TEST	1	138	138	1		120'-6"
	VERTICAL	19	128	2432	19		120'-6"
TOTAL				8196	64	205	

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
ADELAIDE ST. OVER DEQUINDE CUT S.N. 12446
PILING PLAN

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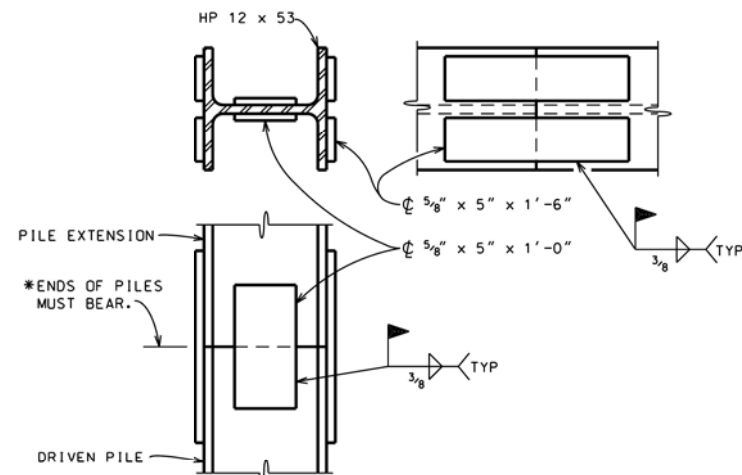
SHEET 18 (425)

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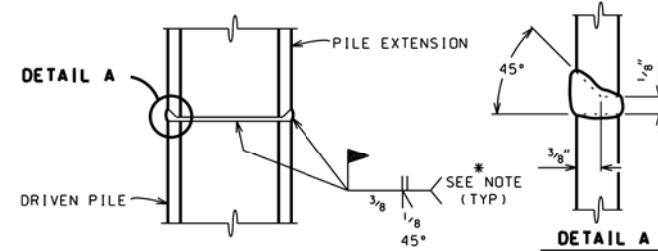
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SPLICE DETAILS

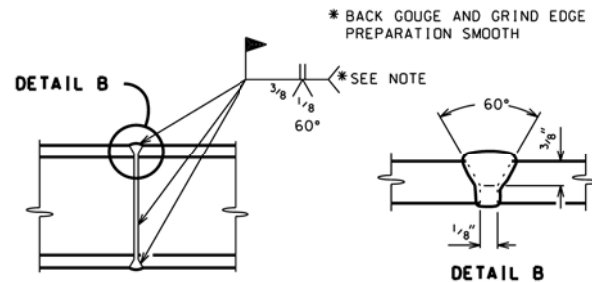
* SET PILE EXTENSION IN PLACE WITH SPLICE PLATES ATTACHED. TAP SEVERAL TIMES WITH THE HAMMER TO IMPROVE BEARING CONTACT. THEN COMPLETE WELDING OF PLATES TO THE LOWER SECTION.

WELDED PILE SPLICE - SPLICE PLATES



SPLICE DETAILS

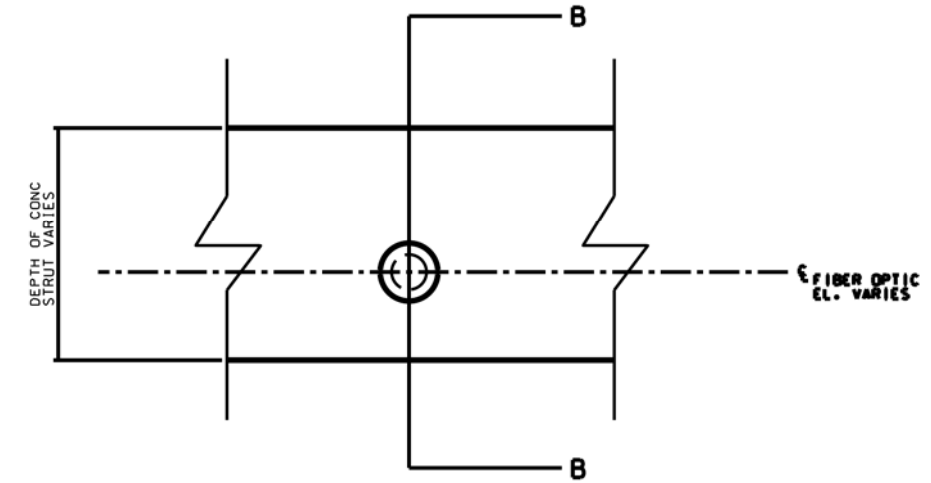
FOR PILES IN PLACE (HORIZONTAL JOINT)



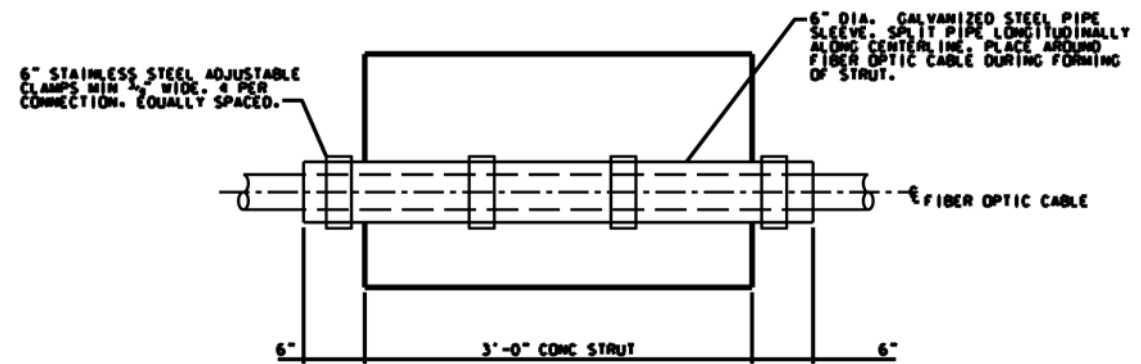
SPLICE DETAILS

FOR PILES IN HORIZONTAL POSITION

WELDED PILE SPLICE - BUTT JOINT



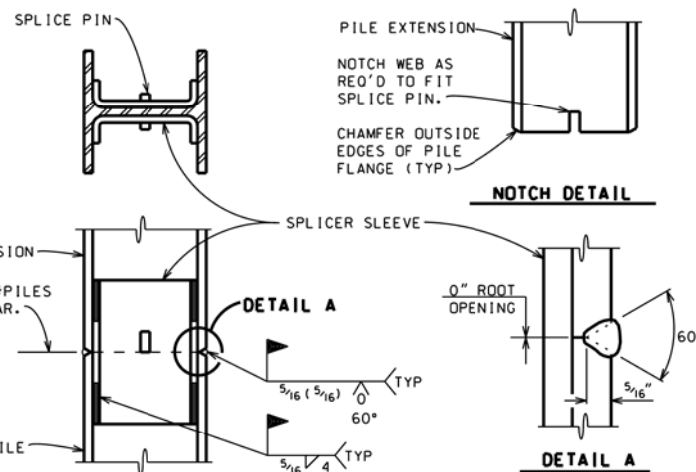
SECTION A-A



SECTION B-B

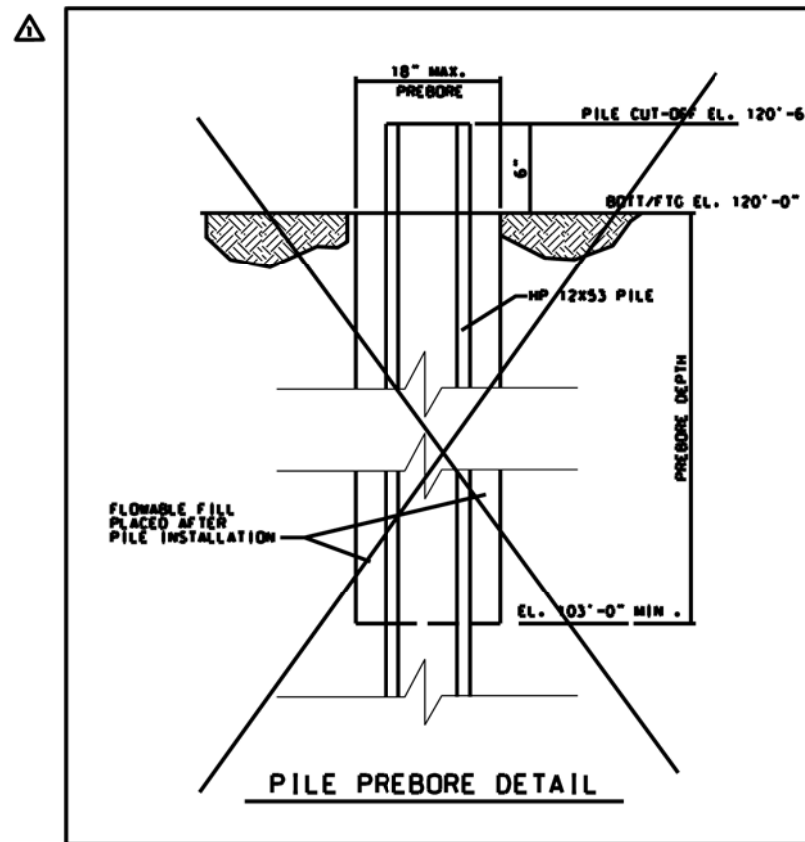
FIBER OPTIC CONDUIT DETAIL

CONTRACTOR NOTE:
SEE SPECIAL PROVISION ON FIBER OPTIC COORDINATION AND PROTECTION.

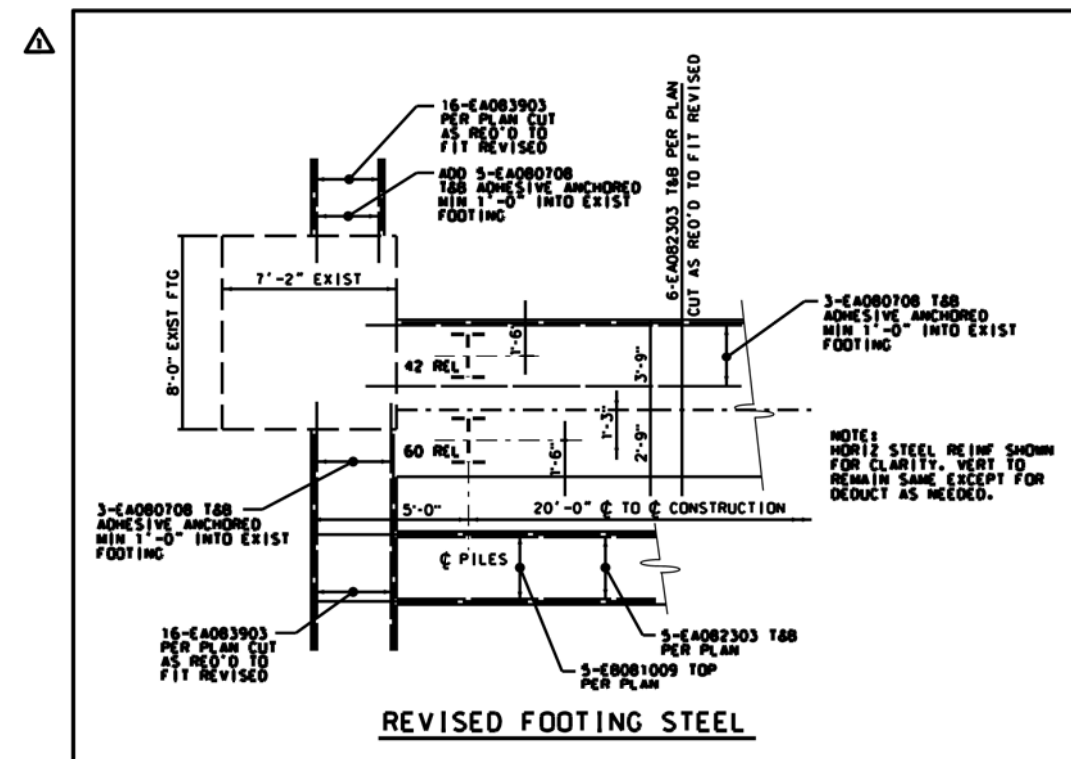


ALTERNATE SPLICE DETAILS

* SET PILE EXTENSION IN PLACE WITH SPLICE PLATES ATTACHED. TAP SEVERAL TIMES WITH THE HAMMER TO IMPROVE BEARING CONTACT. THEN COMPLETE WELDING OF PLATES TO THE LOWER SECTION.



PILE PREBORE DETAIL



REVISED FOOTING STEEL

REV.	DATE	DESCRIPTION
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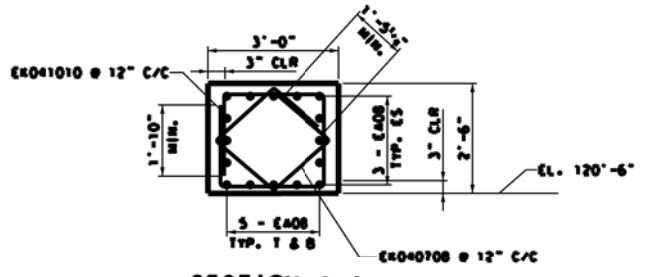
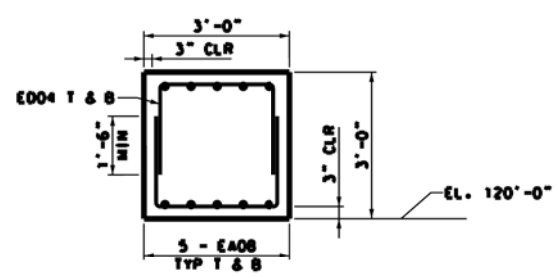
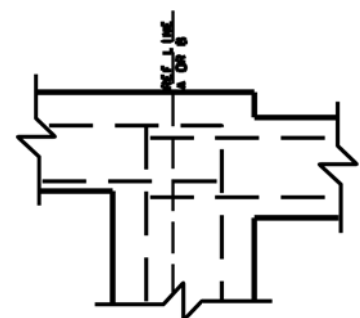
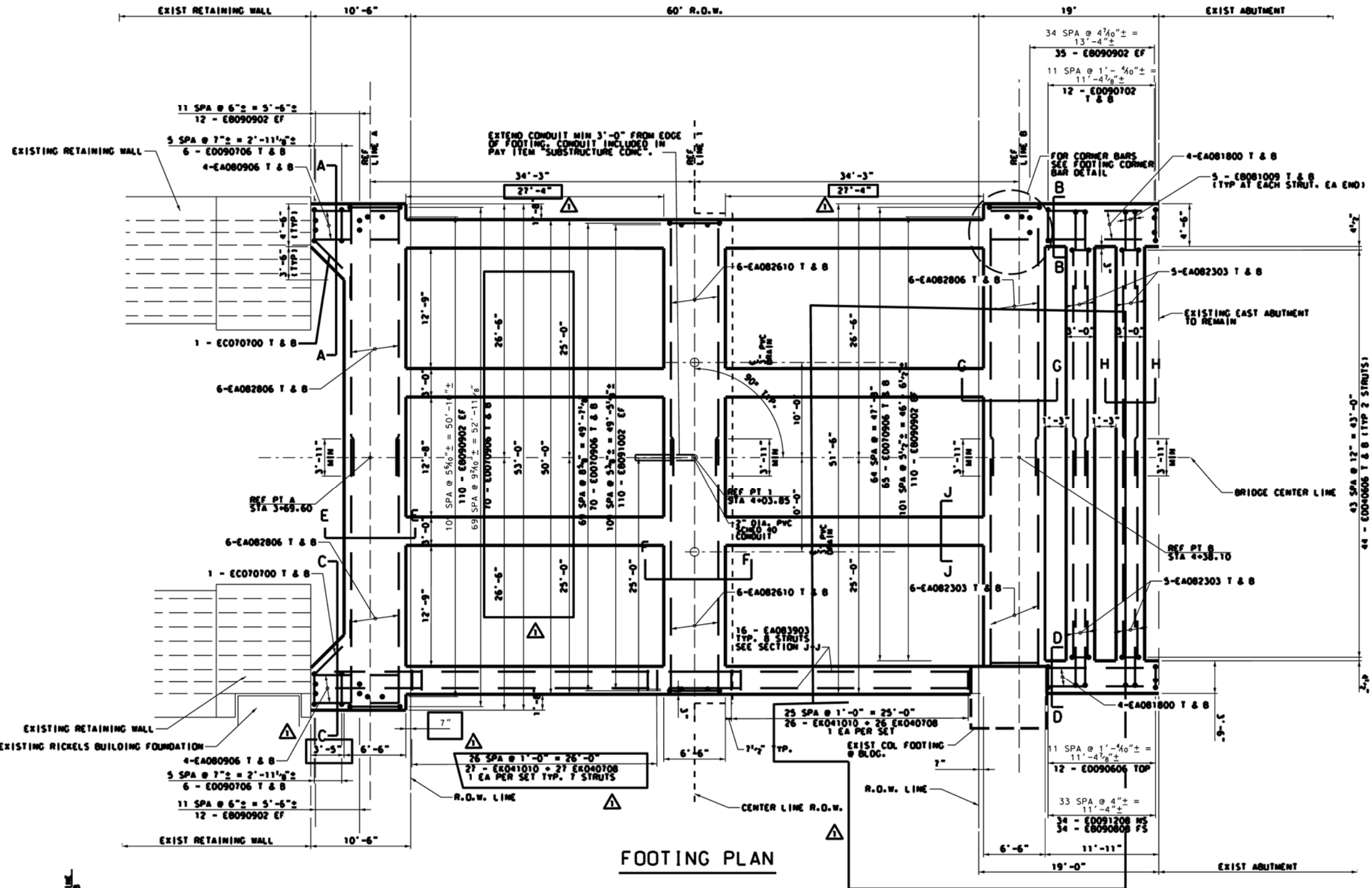
ADELAIDE ST. OVER DEQUINDE CUT S.N. 12446

PILE DETAILS

ISSUED FOR:	DATE:	BY:
JOB NO.	DTE 2025-09T	
SHEET	19 (426)	

PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED: BY: USER: STMS: DATE: 10/28/13

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FOOTING CONC QUANTITIES SUBSTRUCTURE CONC		
LOCATION	QUANTITY	UNIT
ABUT A	75	CYD
PIER 1	37	CYD
ABUT B	107	CYD

NOTES:

CONSTRUCTION JOINTS IN FOOTINGS ARE OPTIONAL.

THE MATERIAL PROPERTIES OF CONCRETE, GRADE S2, SUBFOOTING SHALL BE THOSE OF CONCRETE GRADE S2.

CONCRETE QUANTITIES FOR ABUT A AND ABUT B INCLUDE CONCRETE QUANTITIES FOR TENSION AND COMPRESSION STRUTS.

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 FOOTING PLAN**

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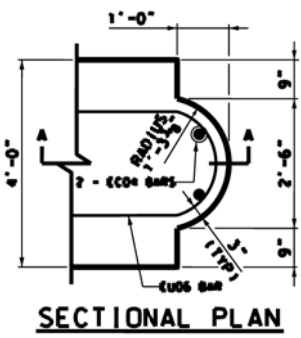
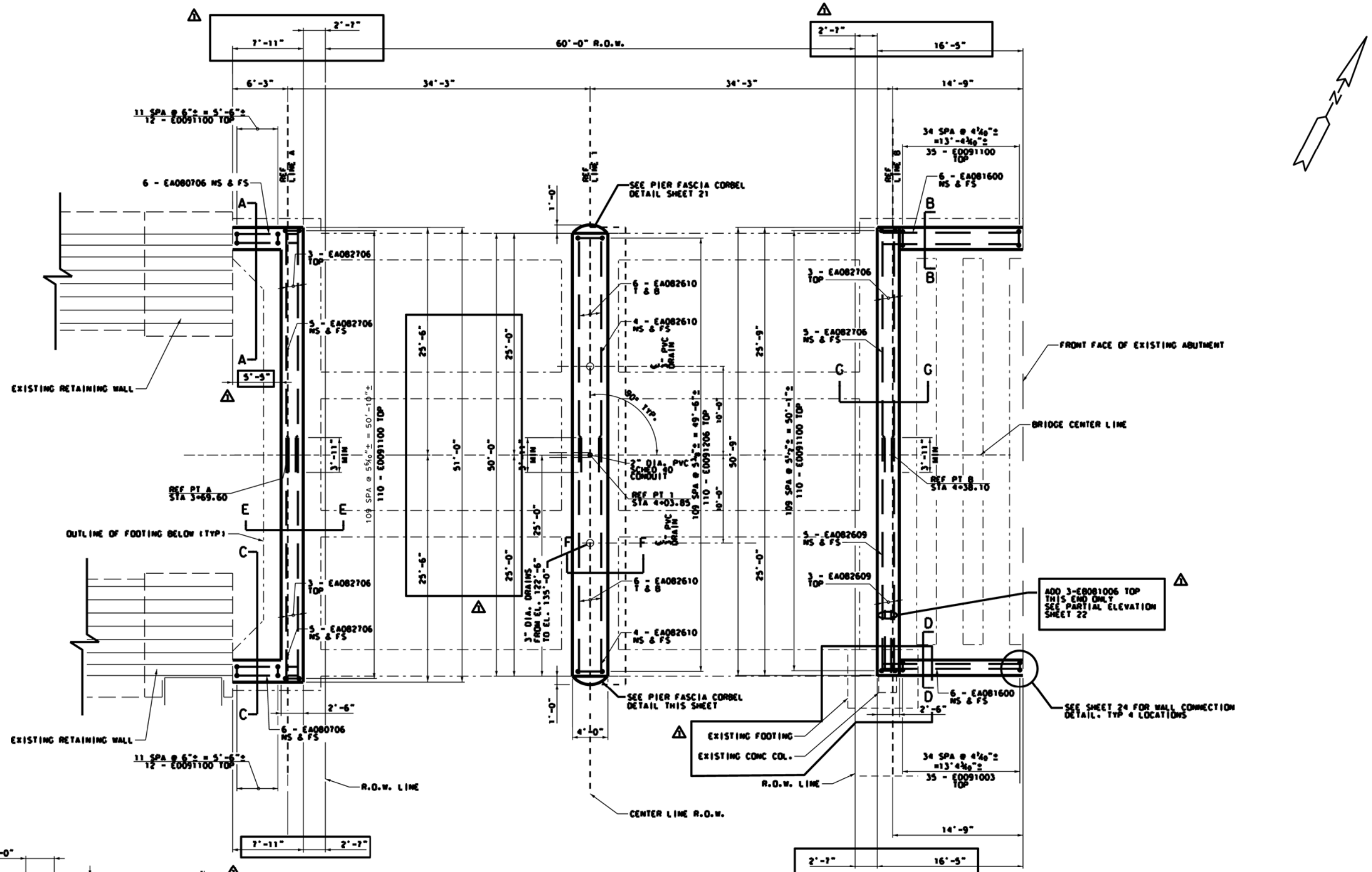
REV.	DATE	DESCRIPTION
REV. 1	10/28/13	FOUNDATION REVISION

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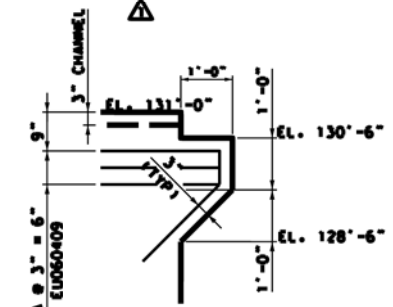
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SHEET **20 (427)**

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PIER FASCIA CORBEL DETAIL
TYP EACH END OF PIER



SECTION A-A

SILL WALL PLAN

SILL WALL CONC QUANTITIES		
SUBSTRUCTURE CONC		
LOCATION	QUANTITY	UNIT
ABUT A	48	CYD
PIER 1	60	CYD
ABUT B	57	CYD

NOTES:
 EXTENT OF EXISTING RETURN WALLS UNKNOWN. WALLS SHOWN IN PLAN ARE BASED ON EXISTING 1929 PLANS. CONTRACTOR TO FIELD VERIFY.
 CONCRETE SURFACE COATING SHALL BE APPLIED TO THE ENTIRE EXPOSED SURFACES OF THE C.I.P. CONC SILL WALLS. SEE WALL DETAILS FOR EXTENT.
 AT NO TIME PRIOR TO ERECTING ARCHES, SHALL THE HEIGHT OF THE BACKFILL ON THE BACKSIDE OF THE ABUTMENTS BE HIGHER THAN THE BACKFILL ON THE FRONT SIDE.
 FOR VERTICAL BARS FROM FOOTING INTO SILL WALLS. SEE FOOTING PLAN.

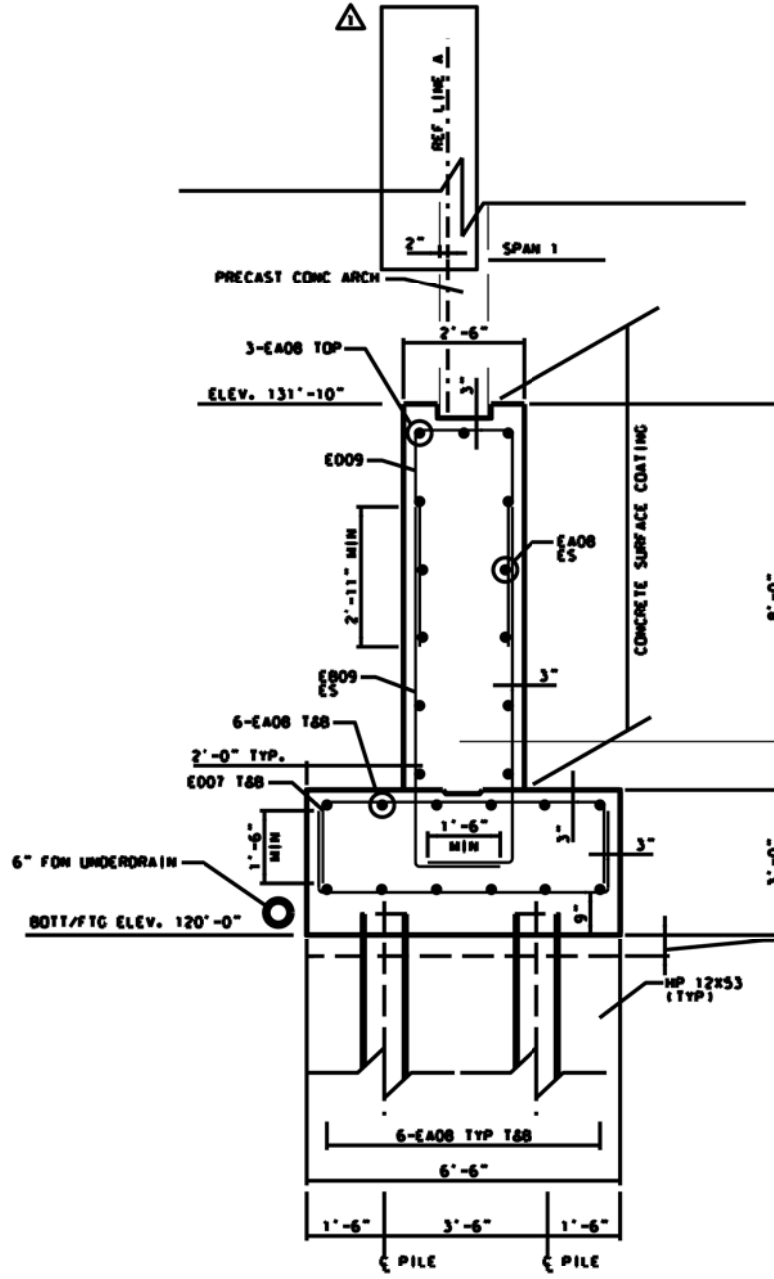
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 ADAELAIDE ST. OVER DEQUINDRE CUT S.N. 12448
 SILL WALL PLAN

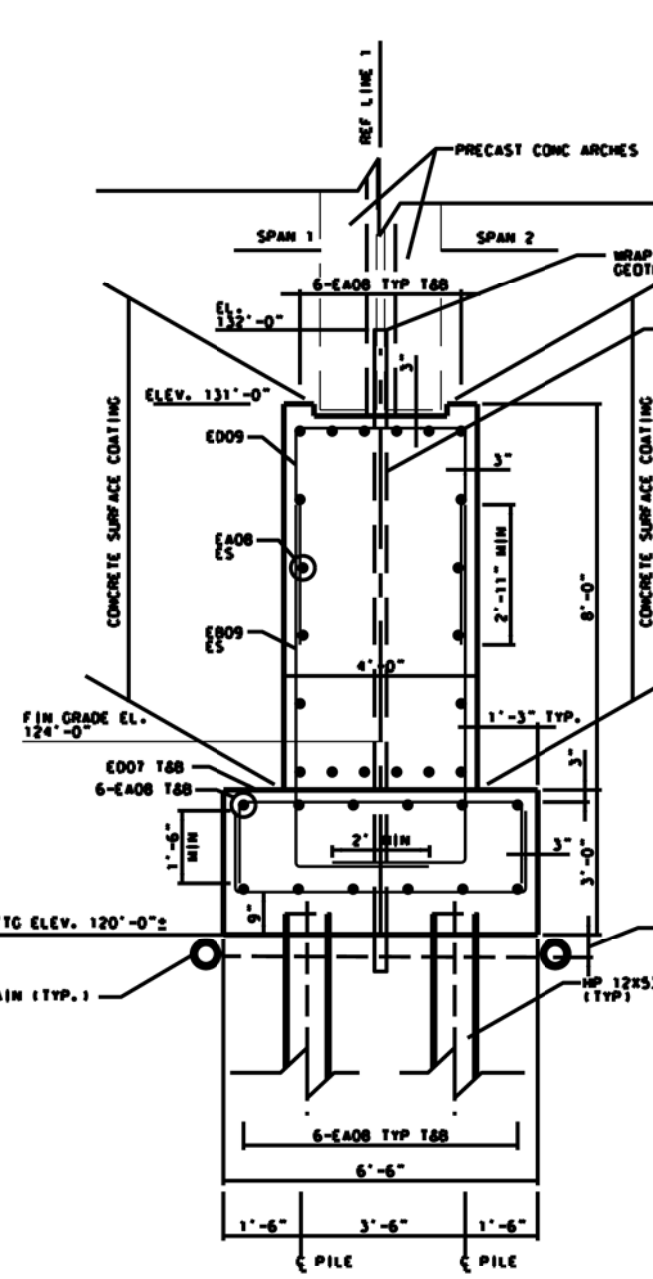
REV: 10/28/13 FOUNDATION REVISION
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 BY:

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 JOB NO. **DTE 2025-09T**
 SHEET 21 (428)
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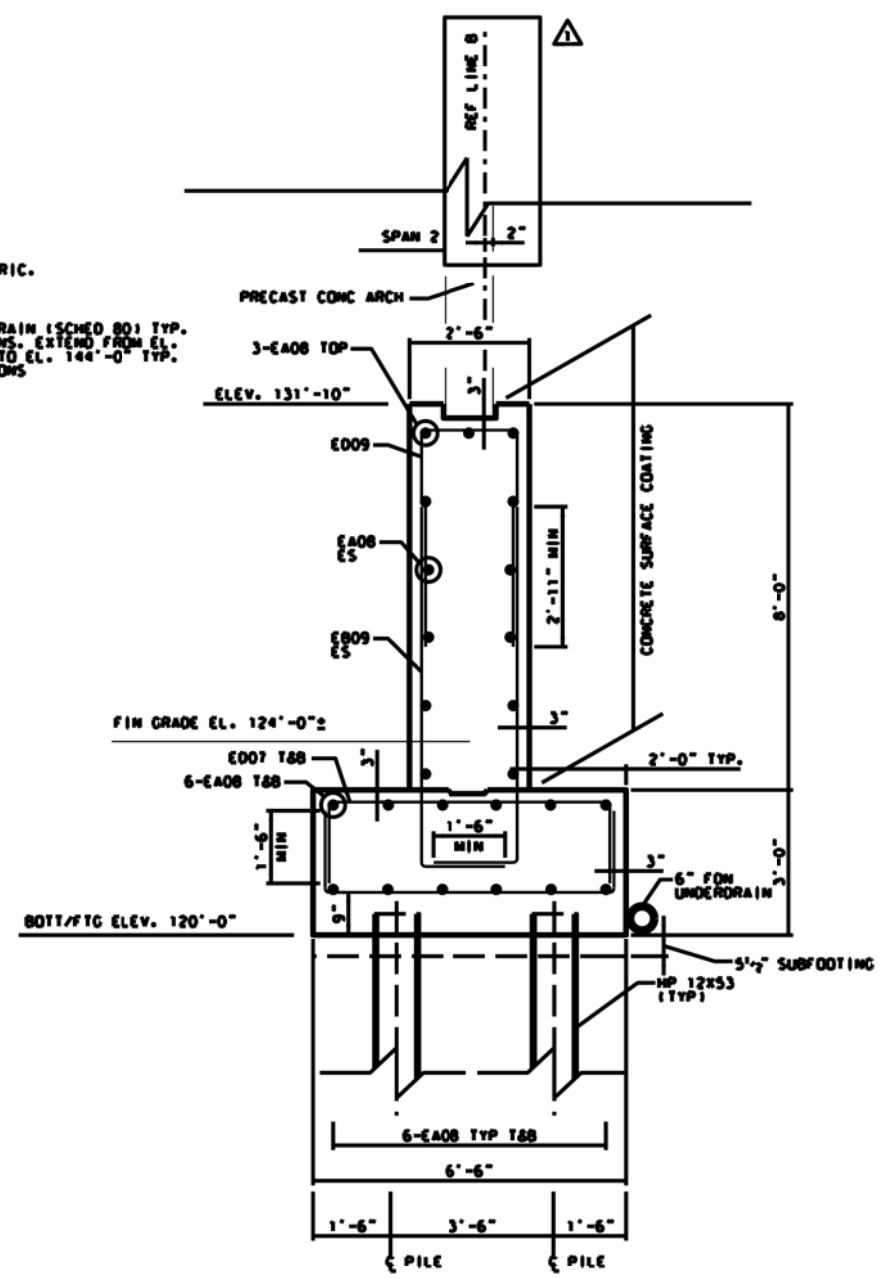
PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED: DATES: STIMES: BY: USERS: RRB



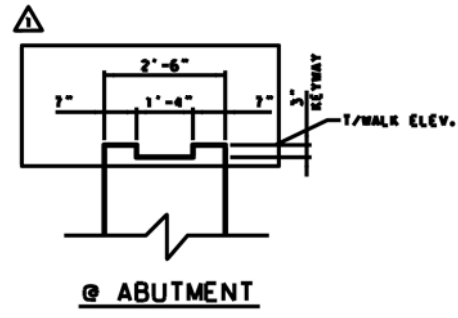
SECTION E-E
SCALE: 1/2" = 1'



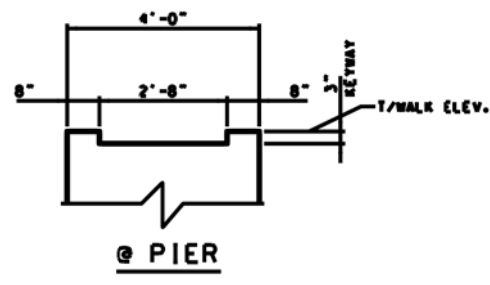
SECTION F-F
SCALE: 1/2" = 1'



SECTION G-G
SCALE: 1/2" = 1'

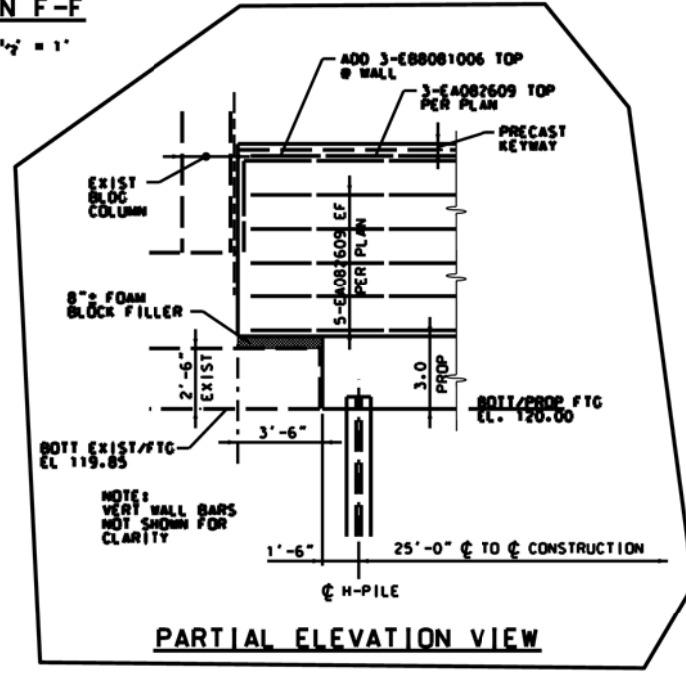


@ ABUTMENT



@ PIER

KEYWAY DETAILS



PARTIAL ELEVATION VIEW

MISCELLANEOUS QUANTITIES			
27	CYD	CONC. GRADE S2. SUBFOOTING	
384	CYD	SUBSTRUCTURE CONC	
456	SYD	CONC SURFACE COATING	
200	SFT	STEEL SHEET PILING. TEMP. LEFT-IN-PLACE	
414	CYD	CONC. LOW TEMPERATURE PROTECTION	
16	EA	PROTECTIVE SLEEVE. FIBER OPTIC LINE	

NOTES:
 JWP DENOTES JOINT WATERPROOFING.
 NS DENOTES NEAR SOE.
 FS DENOTES FAR SOE.
 ES DENOTES EACH SOE.
 FOR BEVEL AND MOLDING DETAILS, SEE STANDARD PLAN 8-103-SERIES.
 FOR PILE QUANTITIES, LAYOUT AND NOTES SEE SHEETS 18-19.
 LOW TEMPERATURE PROTECTION OF CONCRETE SHALL BE APPLIED ACCORDING TO SECTION 706.03 J OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. LOW TEMPERATURE PROTECTION OF CONCRETE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE BID ITEM "SUBSTRUCTURE CONC".
 SEE DETAILS, SHEETS 23-24 FOR LIMITS OF TEMPORARY SHEETING.
 SEE SPECIAL PROVISION FOR CONC SURFACE COATING
 PVC DRAINS AT PER FOUNDATIONS SHALL BE 3" DIA. SCHEDULE 80 PPVC. IT SHALL BE INCLUDED IN THE PAY ITEM "SUBSTRUCTURE CONC".

REVISIONS:

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 SILL WALL DETAILS

ISSUED FOR: DATE: BY:

JOB NO. **DTE 2025-09T**

SHEET **22**
(429)

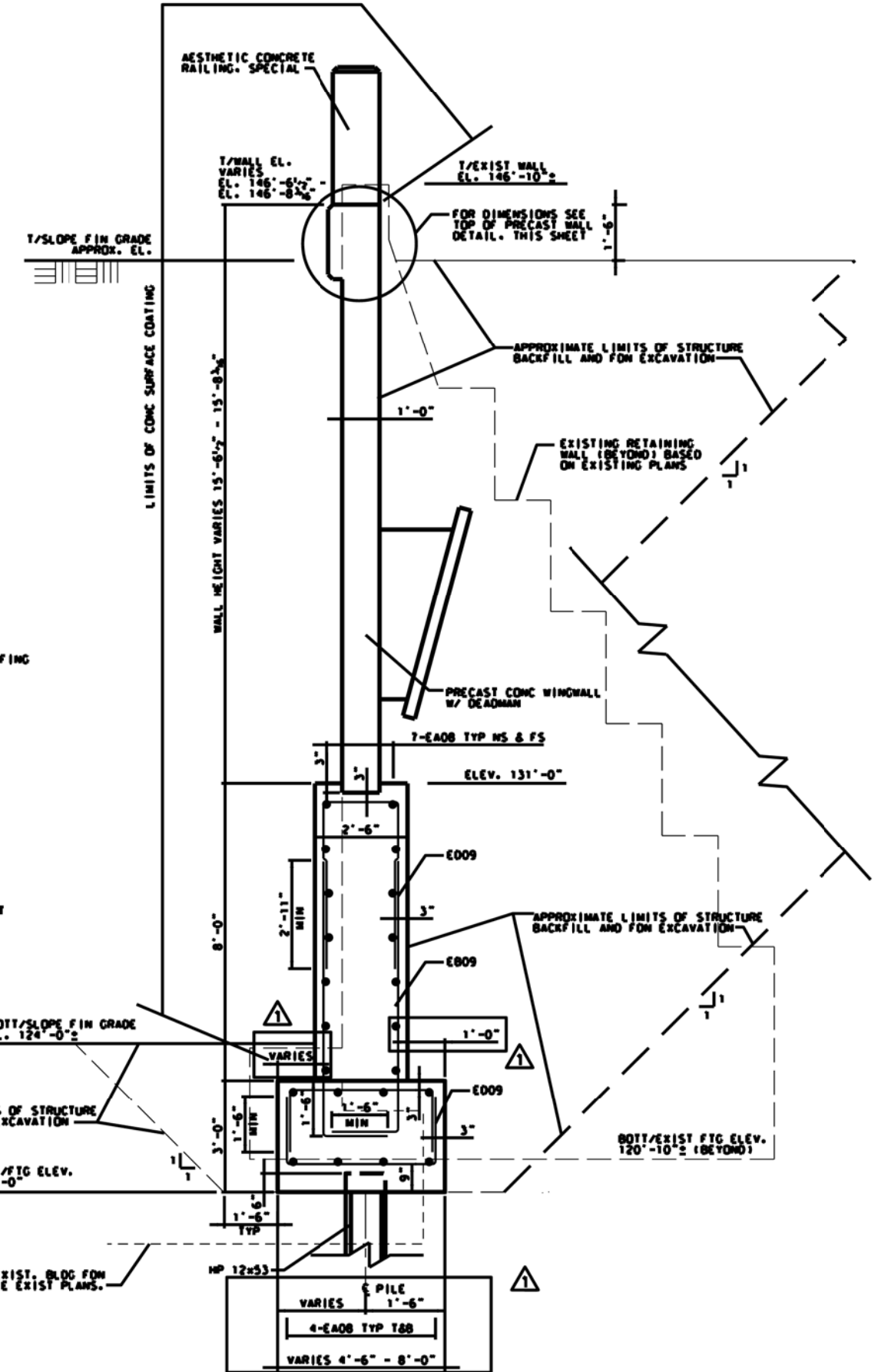
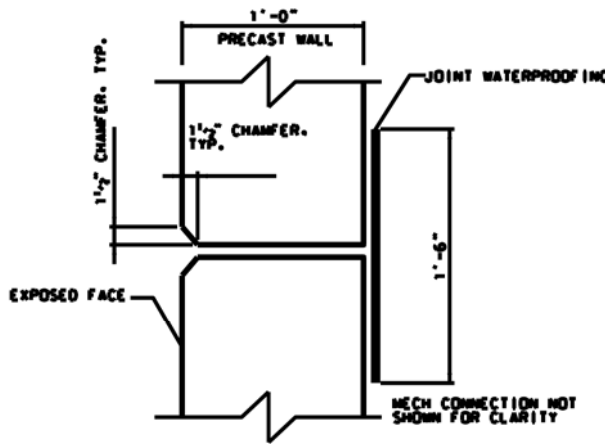
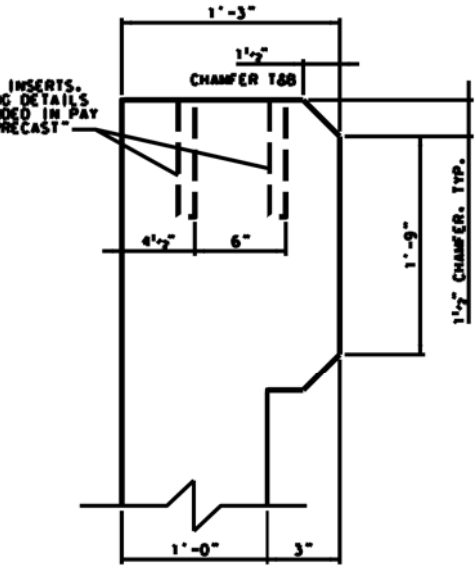
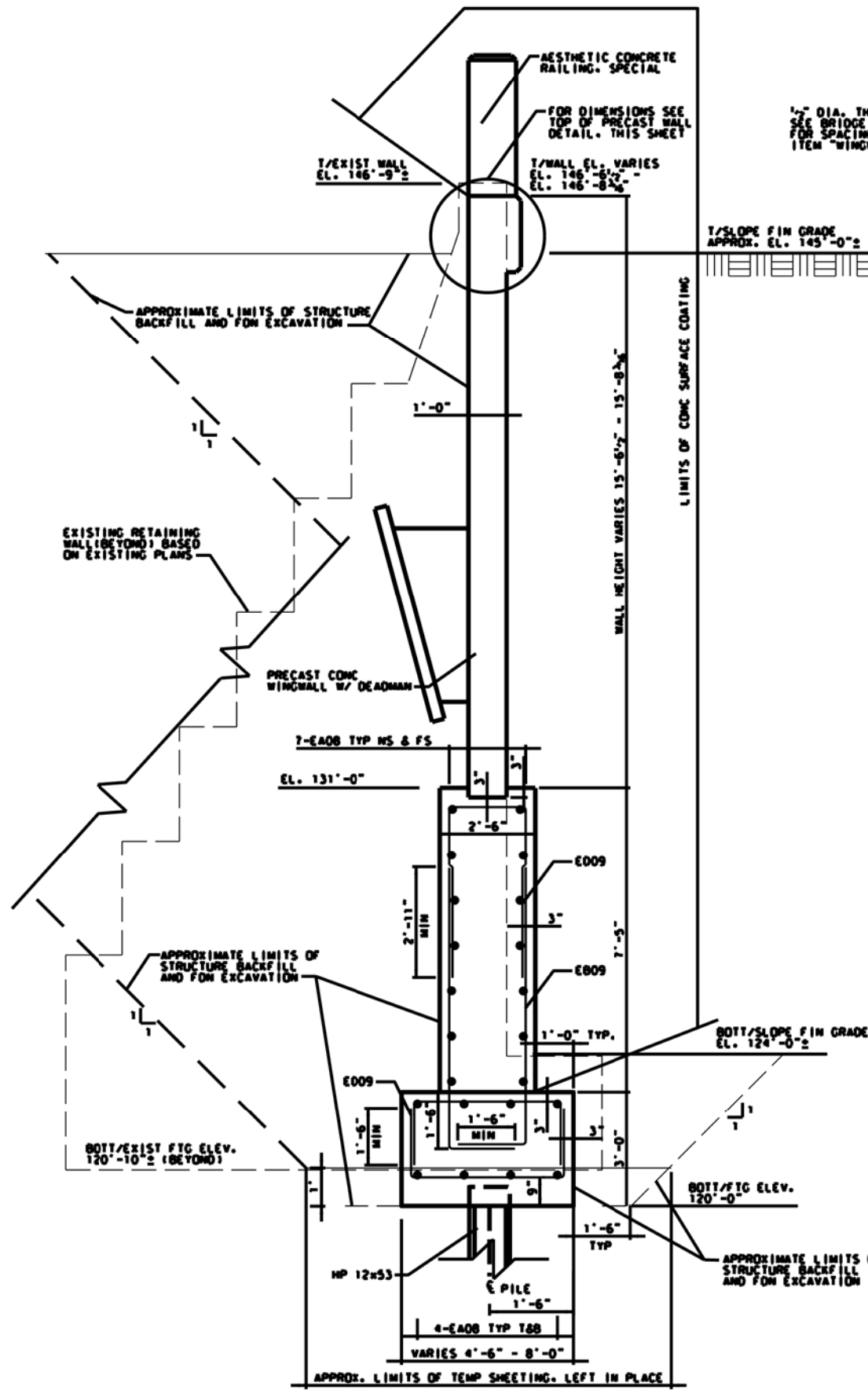
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NOTES

FOR DETAILS OF TEXTURING CONCRETE @ BRIDGE RAILINGS, SEE SHEET 25.

A RUBBED SURFACE FINISH ON THE VERTICAL OUTSIDE SURFACES OF THE PRECAST WALLS IS REQUIRED FOR THIS STRUCTURE.

SEE SPECIAL PROVISIONS FOR CONCRETE SURFACE COATING.



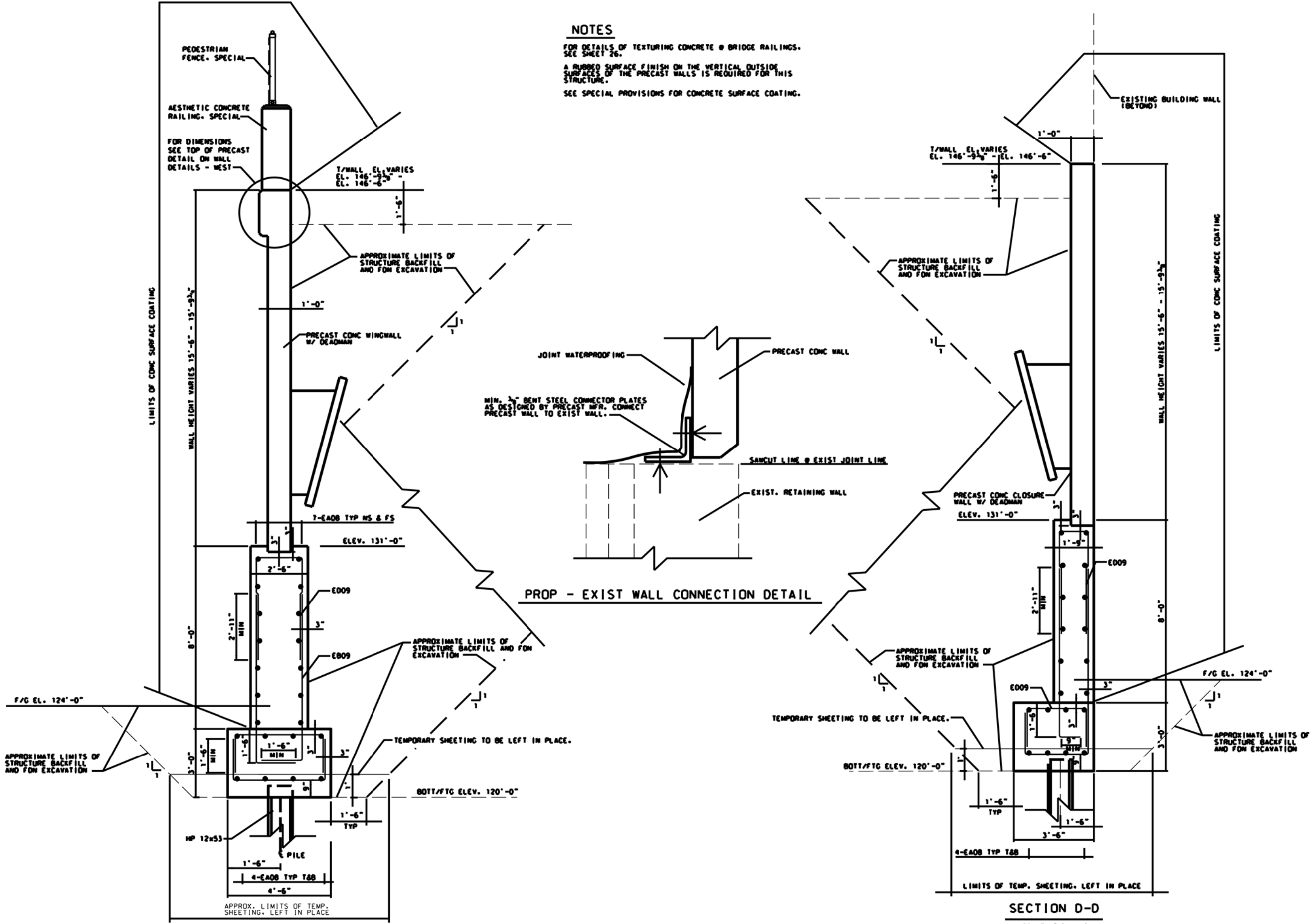
PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED BOARDS: STIMES BY: RUSERS

RRB					
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<p>CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446 WINGWALL DETAILS</p>					
ISSUED FOR:	DATE:	BY:			
JOB NO.	DTE 2025-09T				
SHEET	23 (430)				
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PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED STATES BY: REVISIONS

NOTES

FOR DETAILS OF TEXTURING CONCRETE @ BRIDGE RAILINGS. SEE SHEET 26.
 A RUBBED SURFACE FINISH ON THE VERTICAL OUTSIDE SURFACES OF THE PRECAST WALLS IS REQUIRED FOR THIS STRUCTURE.
 SEE SPECIAL PROVISIONS FOR CONCRETE SURFACE COATING.



SECTION B-B
SCALE: 1/2" = 1'

SECTION D-D
SCALE: 1/2" = 1'

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 WINGWALL DETAILS

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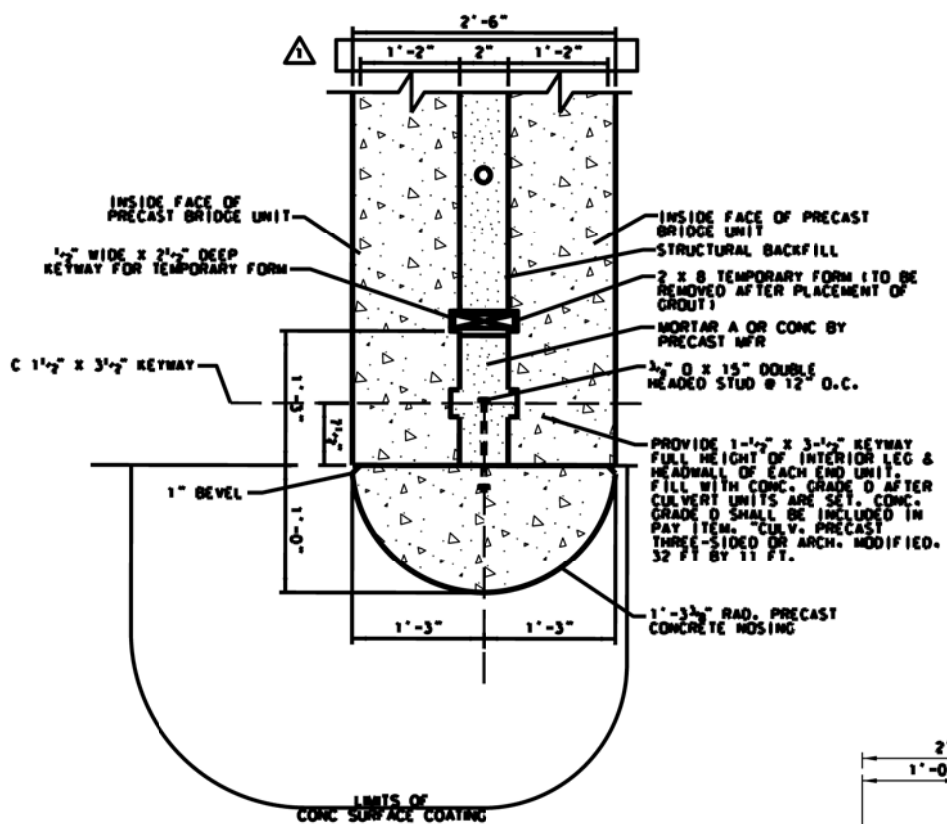
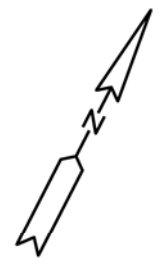
JOB NO. **DTE 2025-09T**

SHEET **24**
(431)

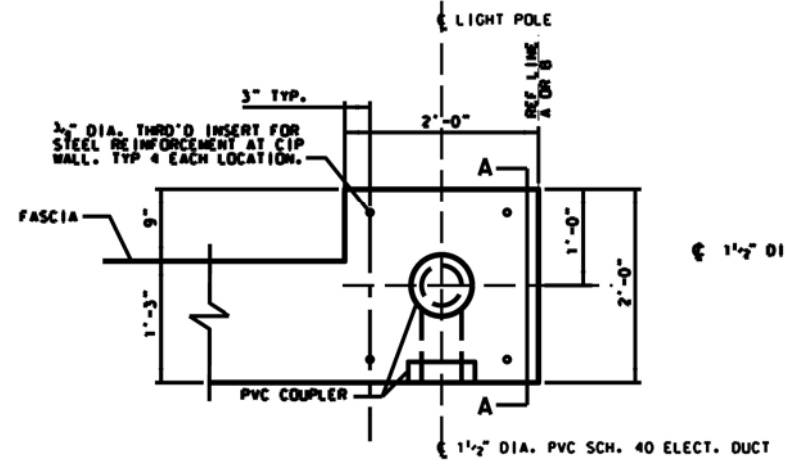
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PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED DATES: TIMES: BY: USERS:

MISCELLANEOUS QUANTITIES			
100	FT	CULV. PRECAST THREE-SIDED OR ARCH. MODIFIED	32 FOOT BY 11 FOOT
650	SFT	WINGWALL. PRECAST	
1085	SFT	JOINT WATERPROOFING	
70	SFT	CONC SURFACE COATING	

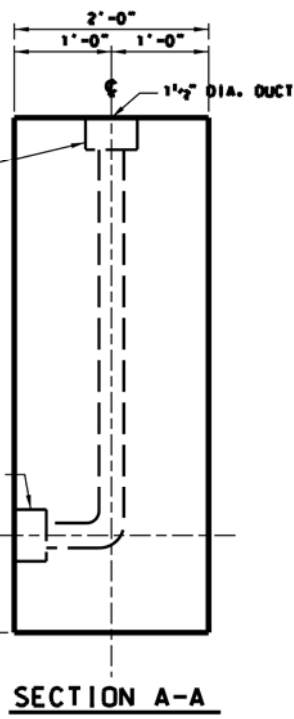


PIER FASCIA DETAIL
SEE DEQUINDRE CUT ELECTRICAL DRAWINGS FOR UNDERBRIDGE LIGHTING DIAGRAMS

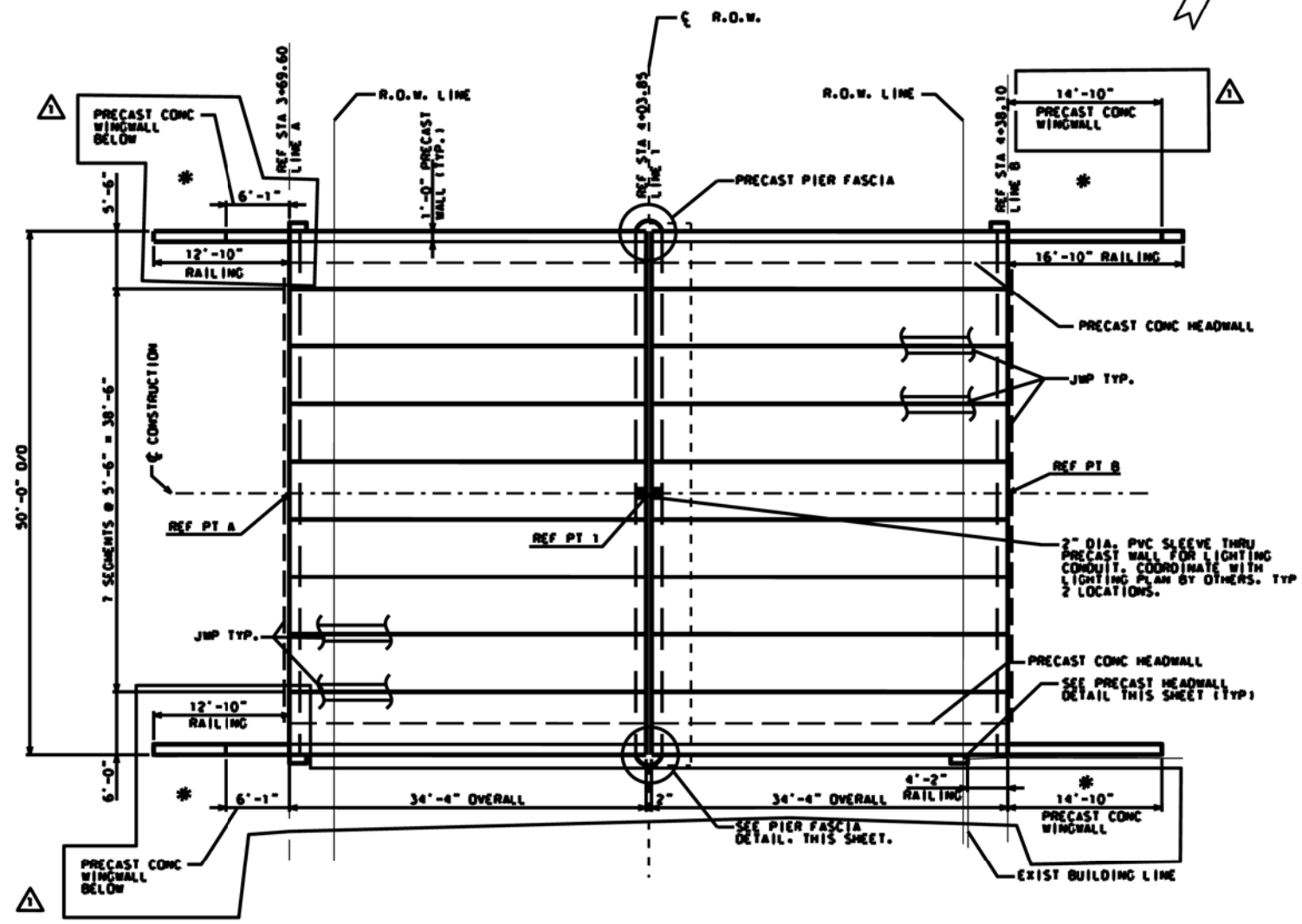


PRECAST HEADWALL DETAIL
(TYP. 4 CORNERS)

TOP/HEADWALL ELEVATIONS		
LOCATION	REF LINE	ELEV (OOD)
NORTH HEADWALL	'A'	146.67
	'1'	147.01
	'B'	146.78
SOUTH HEADWALL	'A'	146.67
	'1'	147.01
	'B'	146.78



SECTION A-A



PRECAST ARCH LAYOUT PLAN

* CONTRACTOR TO FIELD VERIFY PRECAST WALL LENGTHS PRIOR TO FABRICATION.

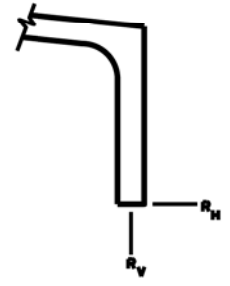
DESCRIPTION	DEAD LOAD	LIVE LOAD	TOTAL LOAD
RH (HORIZ)	2.9 K/FT	2.7 K/FT	5.6 K/FT
RV (VERT)	17.1 K/FT	6.4 K/FT	23.5 K/FT

NOTES:

JWP DENOTES JOINT WATERPROOFING
FOR DETAILS OF NAME PLATES, MOLDINGS AND BEVELS. SEE STD PLAN B-103 SERIES.
FOR NAME PLATE LOCATION. SEE GENERAL PLAN OF STRUCTURE SHEET.
A RUBBED SURFACE FINISH ON THE VERTICAL OUTSIDE SURFACE OF THE PRECAST CONCRETE HEADWALLS IS REQUIRED ON THIS STRUCTURE.
COORDINATE LOCATION OF 1 1/2" DIA. PVC CONDUIT @ HEADWALLS WITH RAILING DETAILS ON SHEET 26.
PRECAST PIER FASCIA SHALL BE INCLUDED IN THE PAY ITEM "CULV. PRECAST THREE-SIDED OR ARCH. MODIFIED - 32 FT BY 11 FT."
PRECAST CONCRETE HEADWALL IS INCLUDED IN PAY ITEM "CULV. PRECAST THREE-SIDED OR ARCH. MODIFIED. 32 FT BY 11 FT. ESTIMATED TOTAL LENGTH = 137 FT."
ALL PRECAST ELEMENTS SHALL HAVE 28 DAY STRENGTH f'c = 5,000 PSI MINIMUM.

REACTION NOTES:

REACTIONS SHOWN ARE UNFACTORED LOADS.
LIVE LOAD REACTIONS SHOWN ARE MAXIMUM REACTION BASED ON VARYING AXLE LOAD POSITIONS.
IMPACT IS NOT INCLUDED.
DEAD LOAD REACTIONS INCLUDE PRECAST UNIT AND WEIGHT OF SOIL AT A UNIT WEIGHT OF 120 PCF.
PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL PROVIDE ENGINEER WITH REACTIONS FROM PRECAST MANUFACTURER FOR PROJECT. THE REACTIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO PRECAST FABRICATION.



PRECAST ARCH REACTIONS

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CITY ENGINEERING DIVISION**

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PRECAST CONCRETE PLAN & DETAILS

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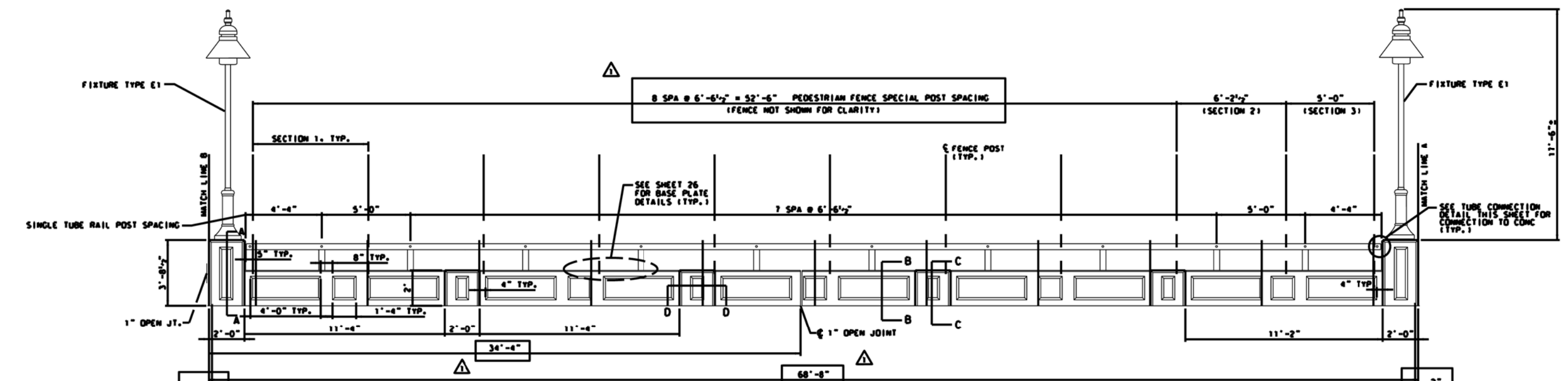
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JOB NO. **DTE 2025-09T**

SHEET **25 (432)**

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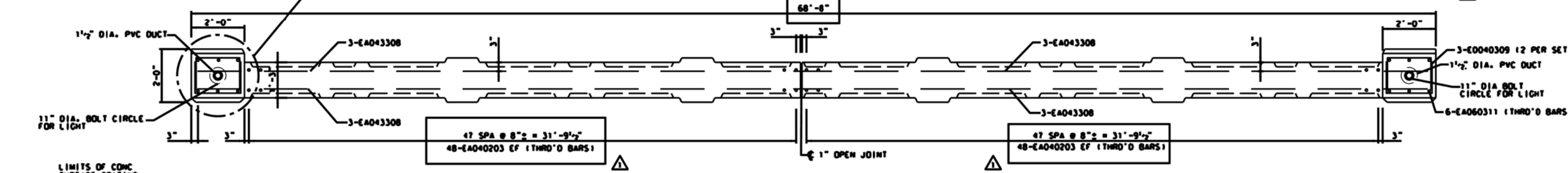


NORTH RAILING ELEVATION

NO SCALE
 NOTE:
 VIEW FROM CENTERLINE OF ROAD LOOKING AT
 INSIDE FACE OF RAILING.
 TEXTURED CONC SURFACE TYP BOTH SIDES OF
 RAILING.

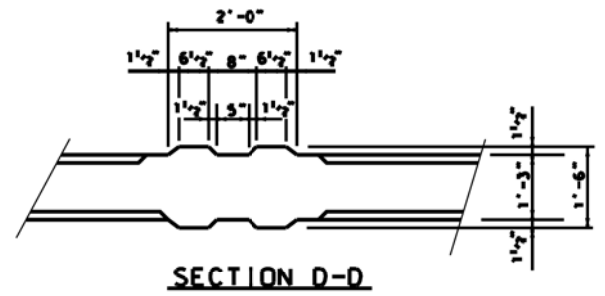
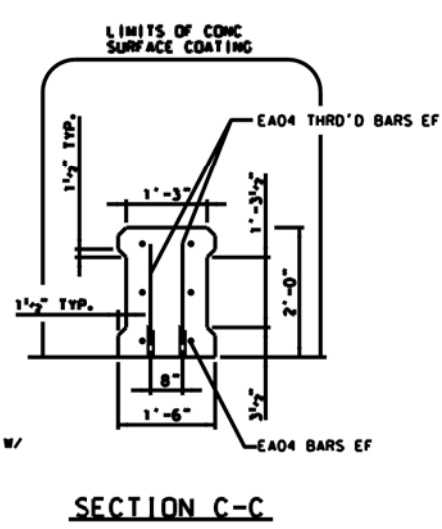
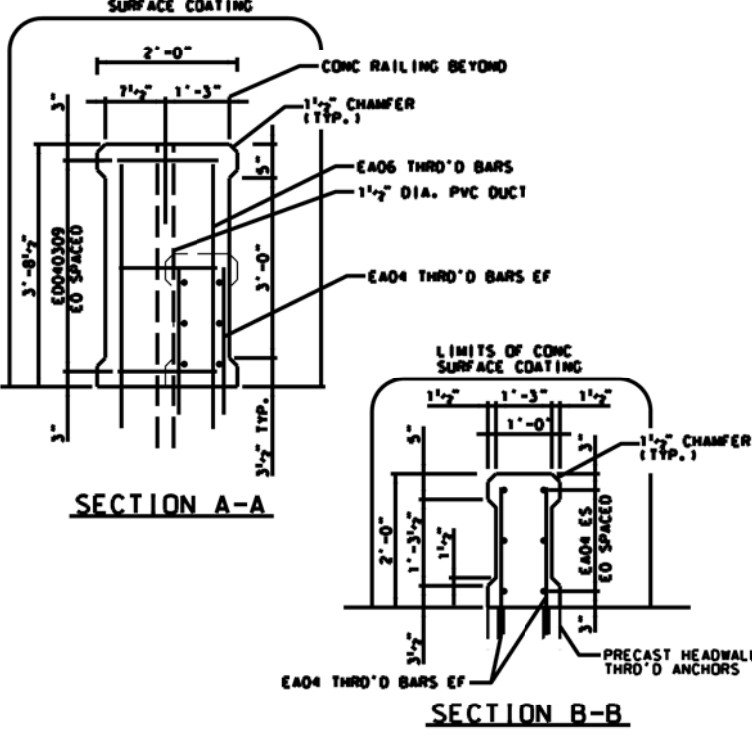
MISCELLANEOUS QUANTITIES

137	FT	BRIDGE RAILING, AESTHETIC
605	FT	PARAPET TUBE, DETAIL 2, MODIFIED
2945	SFT	AESTHETIC CONCRETE RAILING, SPECIAL
560	SYD	PEDESTRIAN FENCE, SPECIAL TEXTURING CONC

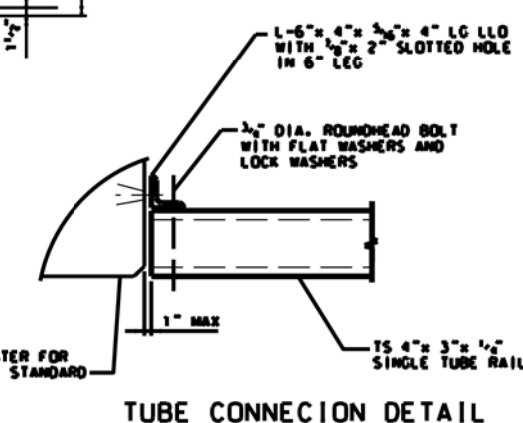


NORTH RAILING PLAN

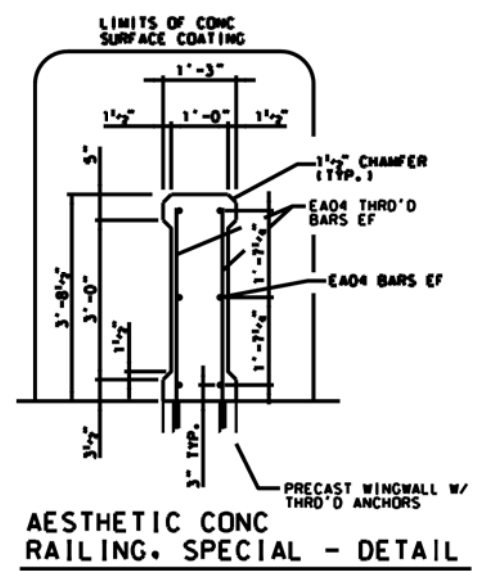
NO SCALE



SECTION D-D



TUBE CONNECTION DETAIL



AESTHETIC CONC RAILING, SPECIAL - DETAIL

RRB

REV#	10/28/13	FOUNDATION REVISION	DESCRIPTION
REV#			
REV#			
REV#			

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 SUPERSTRUCTURE DETAILS

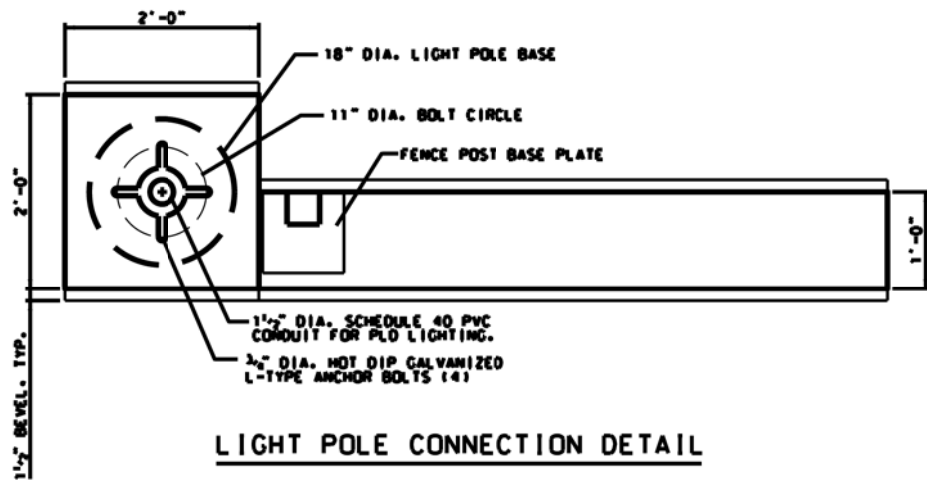
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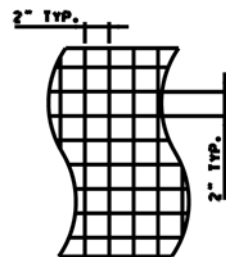
SHEET **25**
 (398)

WORK THIS SHEET WITH SHEETS 26-28

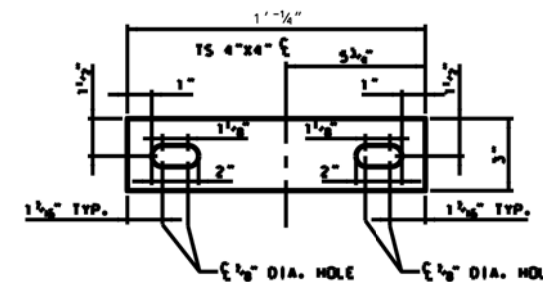
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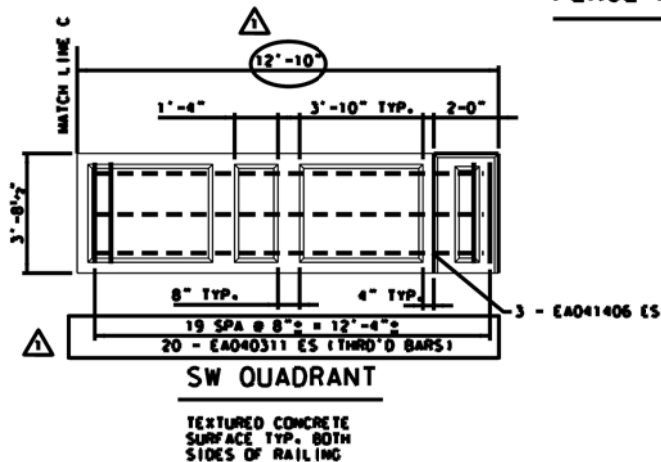
LIGHT POLE CONNECTION DETAIL



FENCE FABRIC DETAIL

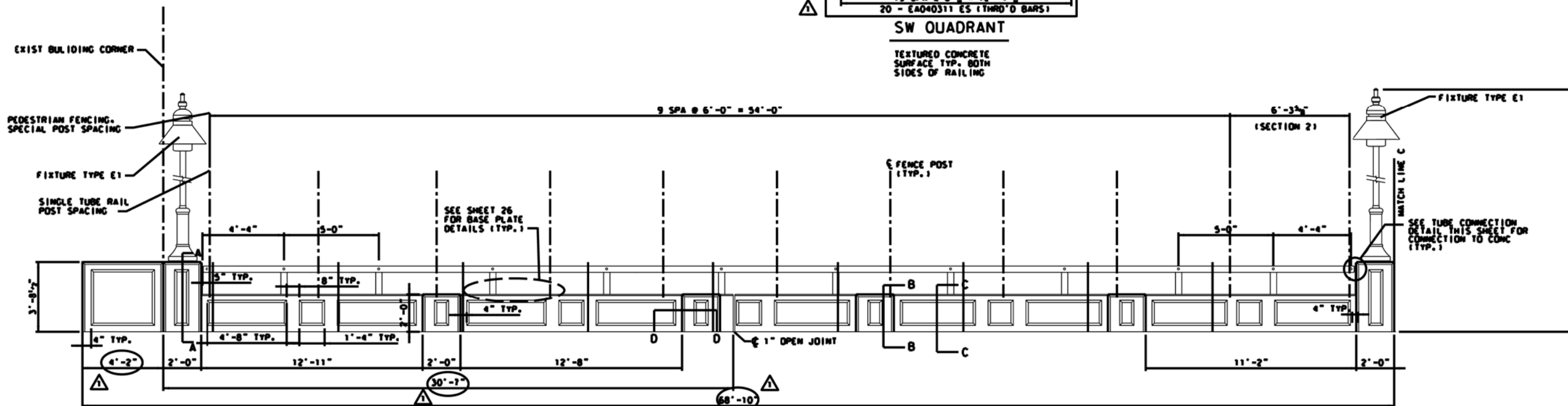


FENCE PANEL EXPANSION PLATE DETAIL



SW QUADRANT

TEXTURED CONCRETE SURFACE TYP. BOTH SIDES OF RAILING

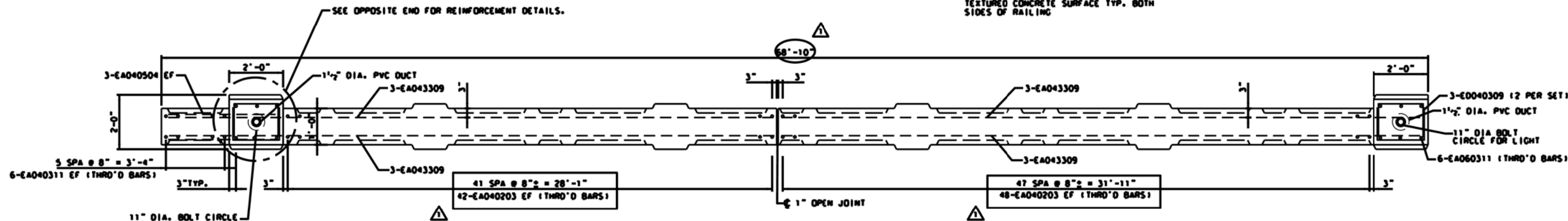


SOUTH ELEVATION VIEW

NO SCALE

NOTE: VIEW FROM CENTERLINE OF ROAD LOOKING AT INNER FACE OF RAILING.

TEXTURED CONCRETE SURFACE TYP. BOTH SIDES OF RAILING



SOUTH RAILING PLAN

NO SCALE

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 SUPERSTRUCTURE DETAIL SHEET 2

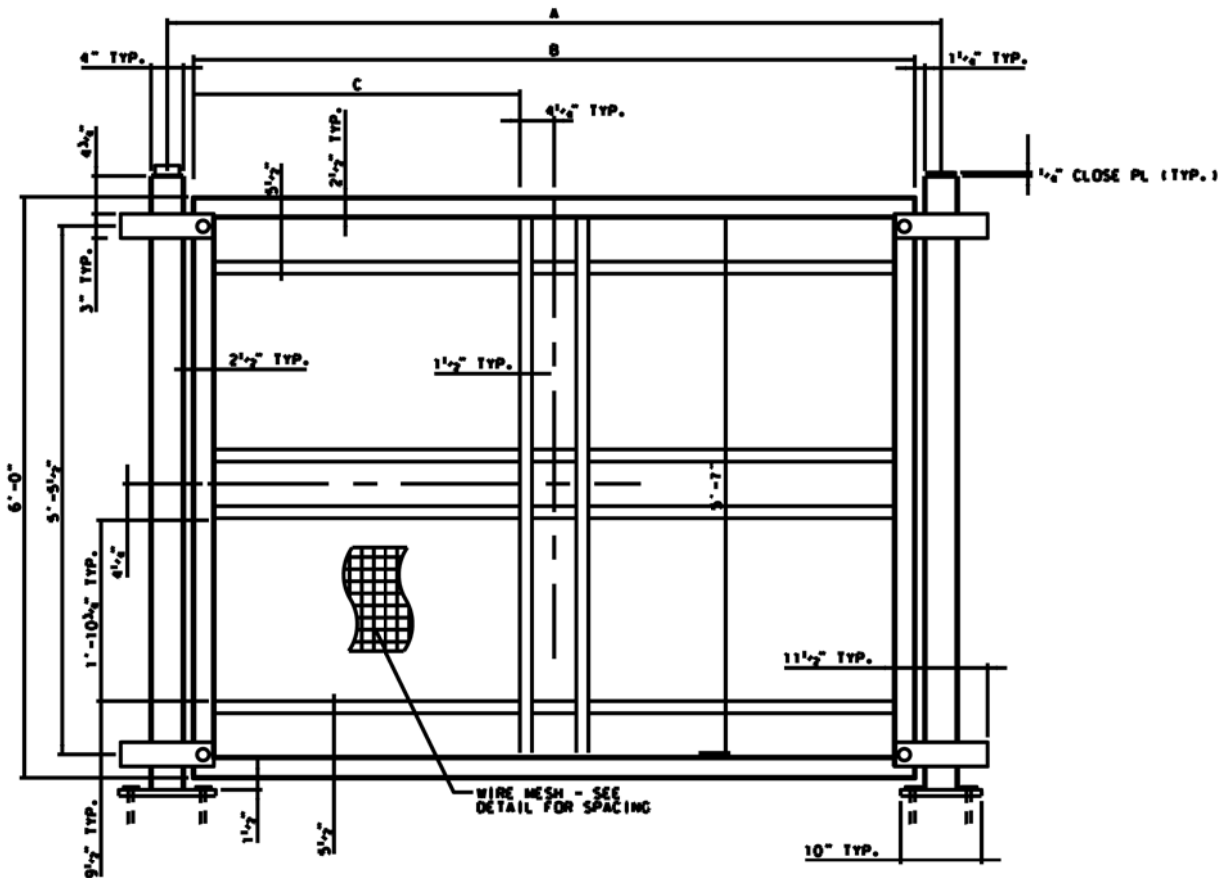
ISSUED FOR:	DATE:	BY:
JOB NO.	DTE 2025-09T	
SHEET	28 (435)	

WORKS WITH SHEETS 25-26

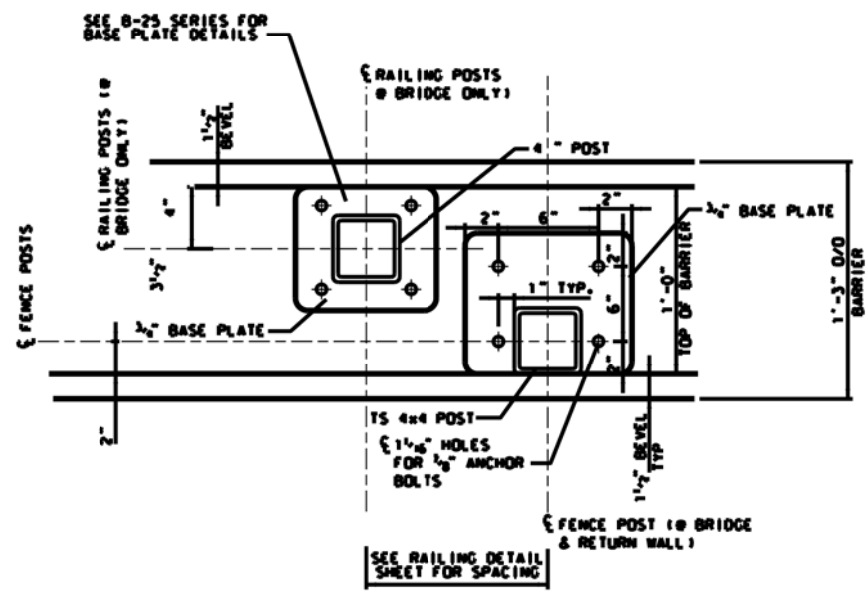
PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED: DATES: STINES: BY: RUSERS: RRB

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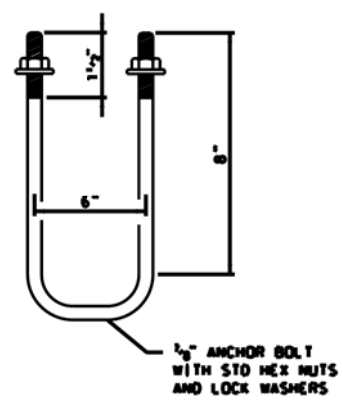
SECTION	LENGTH		
	A	B	C
1	6'-3 1/2"	5'-8 1/2"	2'-5 1/2"
2	5'-2 1/2"	4'-7 1/2"	1'-11 1/2"
3	5'-10 1/2"	5'-3 1/2"	2'-3 1/2"



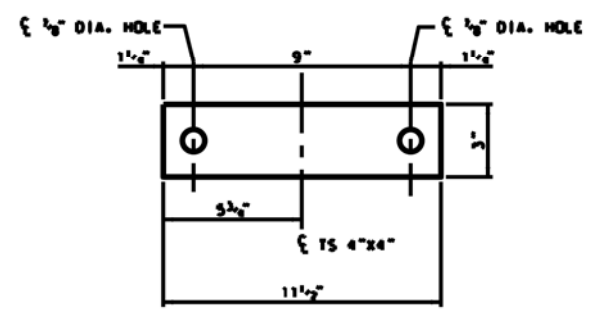
TYPICAL FENCE PANEL SECTION ON BRIDGE
ALL SECTION TO BE PAINTED BLACK



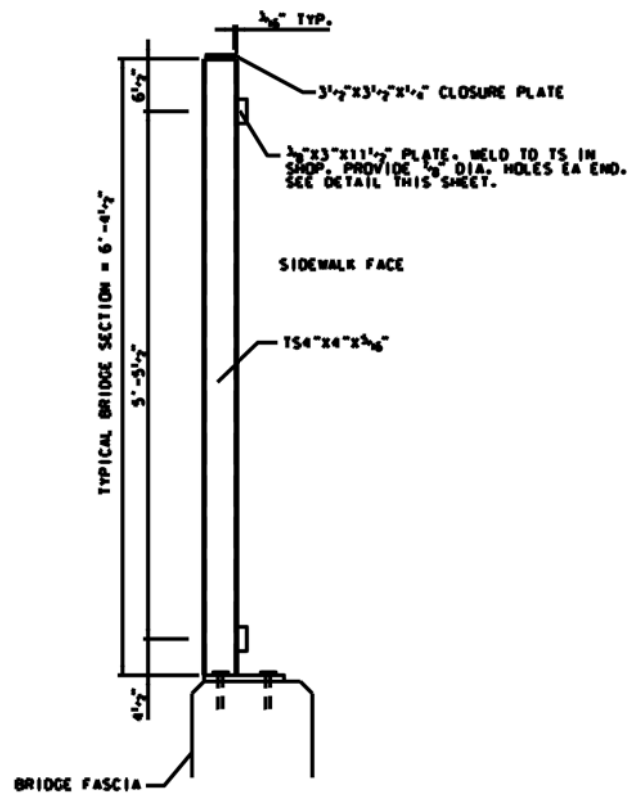
POST BASE PLATE DETAILS



FENCE POST ANCHOR BOLT DETAIL



FENCE PANEL CONNECTION PLATE DETAIL



FENCE POST DETAIL

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CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
ADELAIDE ST. OVER DEQUINDE CUT S.N. 12446
SUPERSTRUCTURE DETAIL SHEET

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-09T

SHEET 27 (434)

WORKS WITH SHEETS 25, 27

REV. 10/28/13 FOUNDATION REVISION

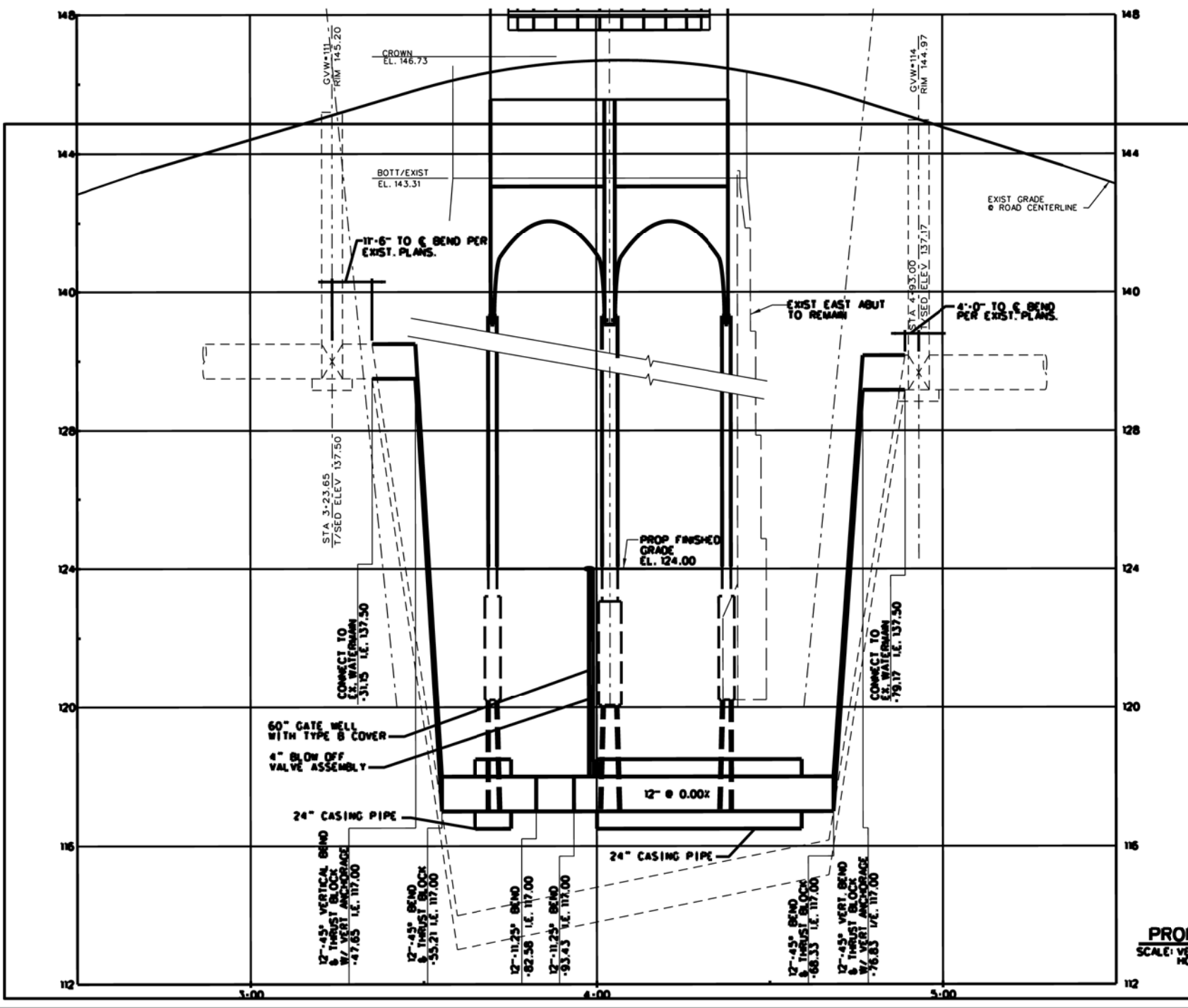
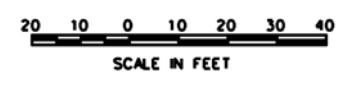
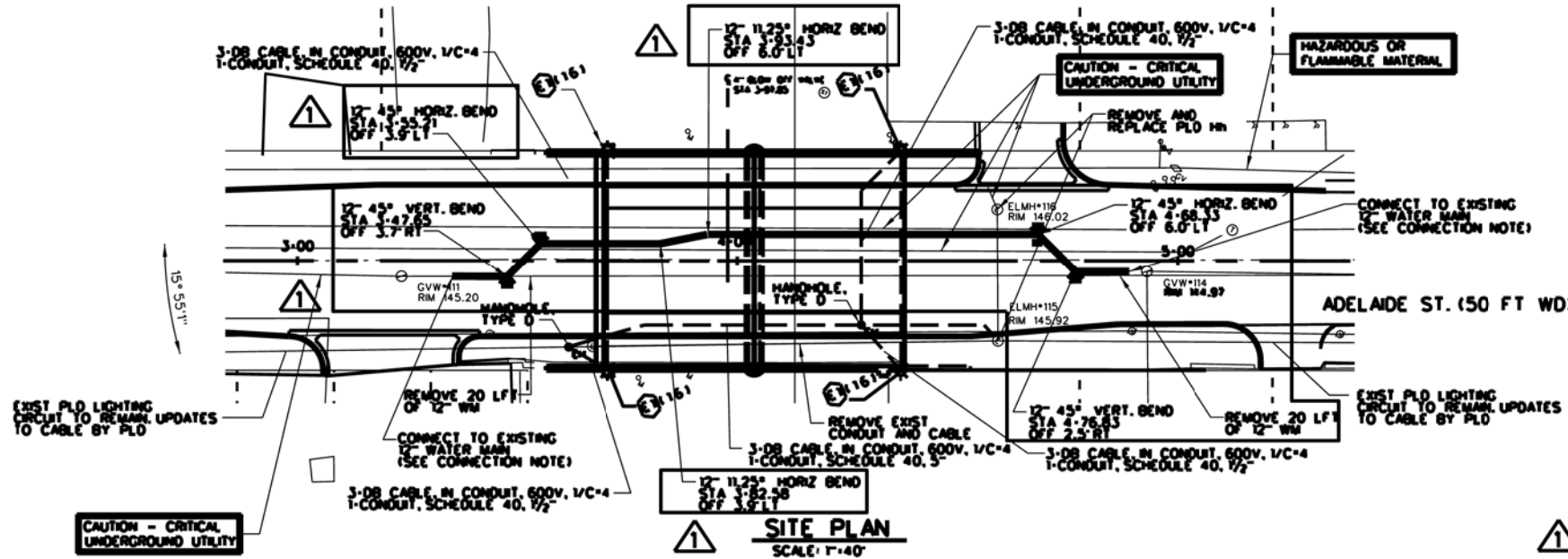
DESCRIPTION

DATE

BY

PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED: EDGES: TIMES: BY: SUSERS

PROJECT MANAGER: SELELS PLOTTED: DATES: TIMES: BY: USERS



WATER MAIN QUANTITIES		
172	FT	WATER MAIN, DI. 12 INCH, TR DET C
40	FT	WATER MAIN, REM
4	CYD	FLOWABLE FILL, NON-STRUCTURAL
1	EA	GATE VALVE & BOX, 4 INCH
70	FT	STEEL CASING PIPE, 24 INCH, TR DET C
1	EA	GATE WELL, 60 INCH DIA
1	EA	DR STRUCTURE COVER, TYPE B

PLD QUANTITIES	
97	FT CABLE, REM
15	FT CONDUIT, SCHEDULE 40, 1/2 INCH
100	FT CONDUIT, SCHEDULE 40, 3/4 INCH
2	EA HM, REM
4	EA HM, TYPE D
4	EA FIXTURE TYPE E1
650	FT DB CABLE, IN CONDUIT, 600V, 1/2\"/>

PLD NOTES:

SEE SHEET 30 FOR PLD HANDHOLE DETAILS.

THE PVC CONDUIT SHALL BE PLACED IN THE FILL AREA BETWEEN TOP OF ARCHES AND ROADWAY SUBBASE, COORDINATE WITH PRECAST DWGS AS TO LOCATION OF DUCT CONNECTION AT PRECAST HEADWALL.

REMOVAL OF EXIST PLD CONDUIT IS INCLUDED IN THE PAY ITEM "STRUCTURE, REM PORTIONS, MODIFIED."

THE NUMBER FOLLOWING (E) INDICATES POLE HEIGHT

FOR DETAILS OF FIXTURE TYPE E1 (SEE PROJECT SHEET 306 (WILKINS SHEET 30)) FOR DETAILS AND FIXTURE SCHEDULE.

DWSD NOTES:

SEE SPECIAL PROVISIONS FOR WORKING AROUND DWSD FACILITIES.

SEE SHEET 31 FOR DWSD STANDARD DETAILS. FOR DETAILS OF GATE WELL WITH BLOW OFF VALVE, SEE DWSD STANDARD DETAILS.

CONNECT NEW 12" O.D. WATER MAIN TO EXISTING WATER MAIN AFTER HYDROSTATIC AND BACTERIAL TEST HAVE BEEN SUCCESSFULLY COMPLETED AND REVIEWED BY THE ENGINEER. INCLUDE IN PAY ITEM "WATER MAIN, DI. 12 INCH, TR DET C".

IF TIMBER PILES ARE ENCOUNTERED CONTRACTOR TO CUT DOWN TO 6'-0" BELOW PIPE INVERT. THIS WORK SHALL BE INCLUDED IN PAY ITEM "WATER MAIN, REM".

CONTRACTOR SHALL COORDINATE INSTALLATION OF WATER MAIN WITH FIBER OPTIC LINES. SEE SPECIAL PROVISIONS.

CONTRACTOR SHALL USE VERTICAL ANCHORS AT ALL VERTICAL BENDS IN WATERMAIN INSTALLATION.

PROFILE
SCALE: VERT 1"=2'
HORIZ 1"=20'

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ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446
PLD/DWSD PLAN AND DETAILS

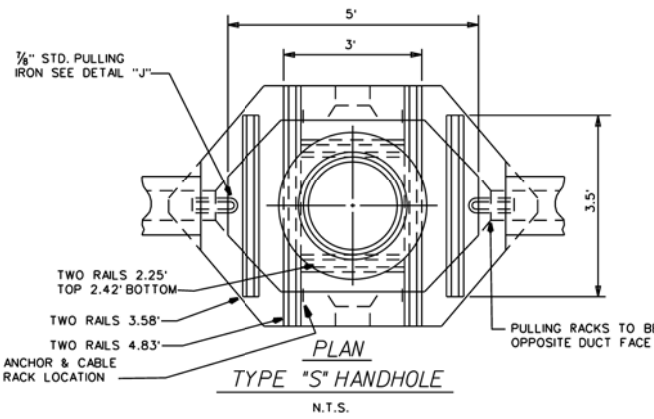
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JOB NO.
DIE 2025-09T

SHEET
29
(436)

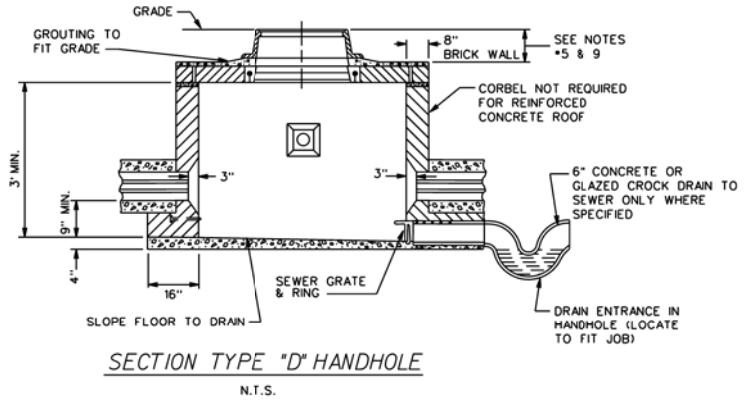
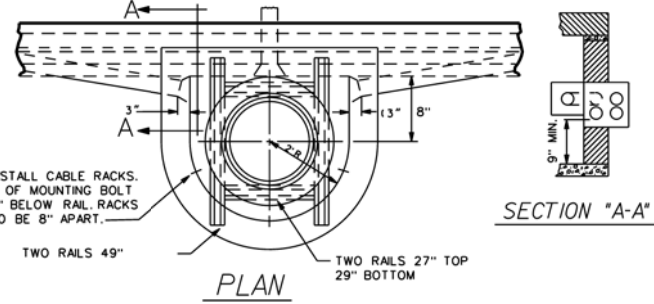
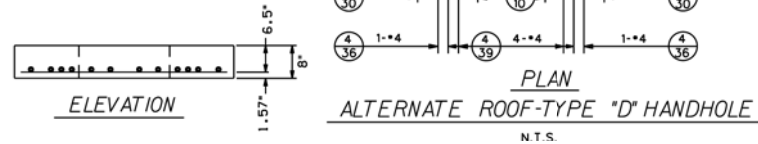
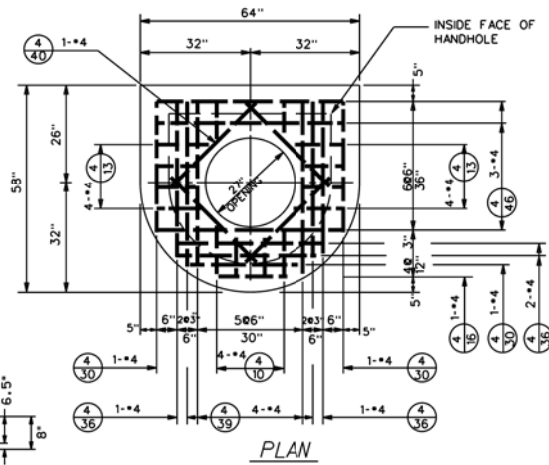
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REV#	DATE	DESCRIPTION	BY
REV#1	10/28/13	FOUNDATION REVISION	

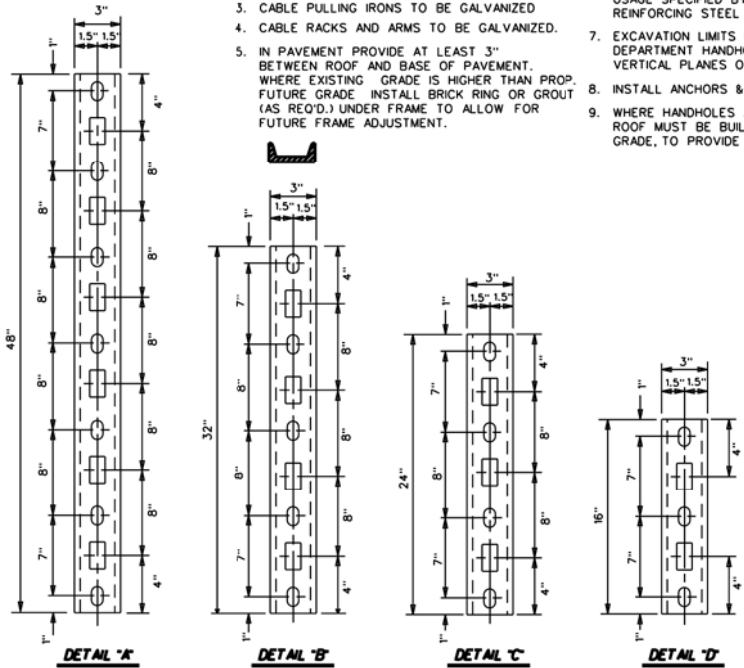


TYPE "S" HANDHOLE TABLE FOR #5 BARS		
MARK	NO.	LENGTH
5-50	2	5'
5-46	8	4.5'
5-36	4	3.5'
5-30	6	2'
5-19	10	2'
5-10	8	12'

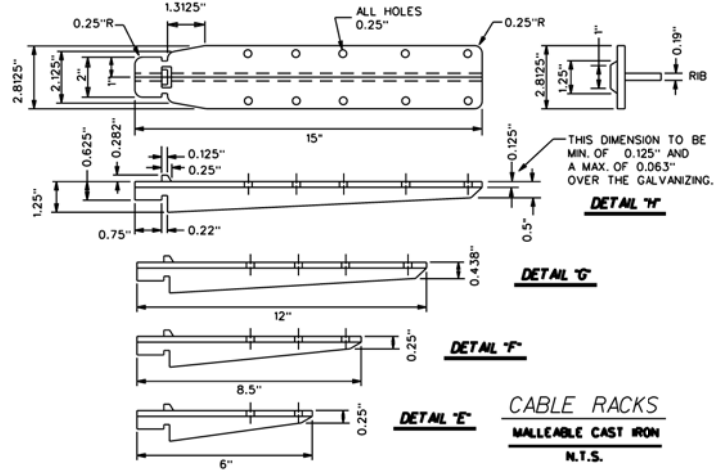
TYPE "D" HANDHOLE TABLE FOR #4 BARS		
MARK	NO.	LENGTH
4-46	3	5.4'
4-40	4	4.8'
4-39	4	4.5'
4-36	4	4.2'
4-30	3	3.6'
4-16	1	1.8'
4-13	8	1.5'
4-10	4	1.2'



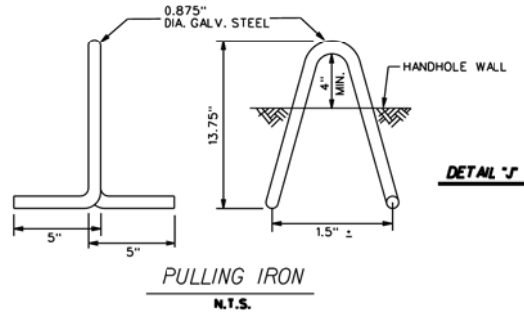
- NOTE:**
- DUCT ENTRANCE TO BE BUILT AS REQUIRED.
 - ALL RAILS TO BE 60#/YD. OR HEAVIER.
 - CABLE PULLING IRONS TO BE GALVANIZED.
 - CABLE RACKS AND ARMS TO BE GALVANIZED.
 - IN PAVEMENT PROVIDE AT LEAST 3" BETWEEN ROOF AND BASE OF PAVEMENT. WHERE EXISTING GRADE IS HIGHER THAN PROP. FUTURE GRADE, INSTALL BRICK RING OR GROUT (AS REQ'D.) UNDER FRAME TO ALLOW FOR FUTURE FRAME ADJUSTMENT.
 - BAR NUMBERS DENOTE THE SIZE OF BAR REQUIRED IN ACCORDANCE WITH CURRENT USAGE SPECIFIED BY THE CONCRETE REINFORCING STEEL INSTITUTE.
 - EXCAVATION LIMITS FOR PUBLIC LIGHTING DEPARTMENT HANDHOLES SHALL BE ON VERTICAL PLANES OF THE FOOTING OUTLINE.
 - INSTALL ANCHORS & CABLE-RACKS AS SHOWN.
 - WHERE HANDHOLES ARE LOCATED BACK OF CURBS ROOF MUST BE BUILT 18" BELOW CURB GRADE, TO PROVIDE FOR FUTURE WIDENING.



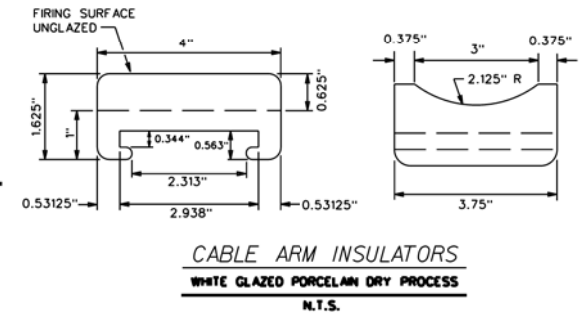
CABLE RACKS
3" STD. 4.1" CHANNEL
N.T.S.



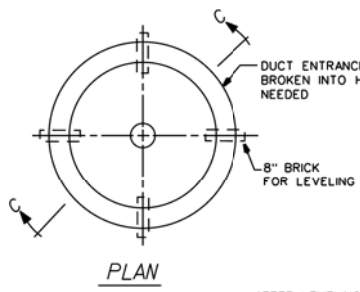
CABLE RACKS
MALLEABLE CAST IRON
N.T.S.



PULLING IRON
N.T.S.

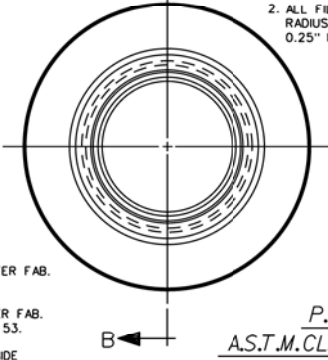


CABLE ARM INSULATORS
WHITE GLAZED PORCELAIN DRY PROCESS
N.T.S.



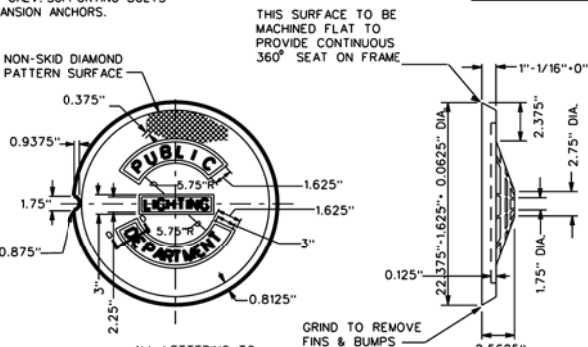
NOTE:
BELL ENDS ARE REQUIRED ON EACH CONDUIT BROKEN OUT IN HANDHOLE. TYPE AND SIZE SHALL BE IDENTICAL TO CONDUIT TYPE AND SIZE.

- NOTE:**
- FRAMES MAY BE A.S.T.M. CLASS 30 GRAY IRON IF THE CONTRACTOR SO ELECTS.
 - ALL FILLETS ARE 0.5" RADIUS & ALL ROUNDS ARE 0.25" RADIUS



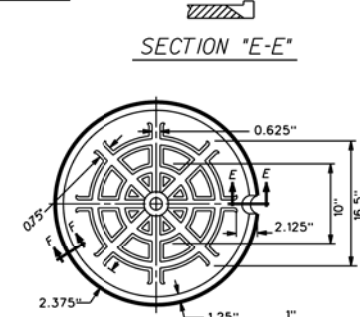
P.L.C. PATTERN NO. 1A
A.S.T.M. CLASS 20 OR 30 GRAY IRON
APPROX. 251 LBS.
HANDHOLE FRAME

- NOTE:**
- CABLE RACKS SHALL BE GALV. AFTER FAB. IN ACCORDANCE WITH ASTM A-123.
 - CABLE ARMS SHALL BE GALV. AFTER FAB. IN ACCORDANCE WITH ASTM A-153 53.
 - ARMS MUST FIT ON INSIDE & OUTSIDE OF RACKS & MUST ALLOW INSULATOR TO FIT LOOSELY.
 - USE 0.5" GALV. SUPPORTING BOLTS AND EXPANSION ANCHORS.

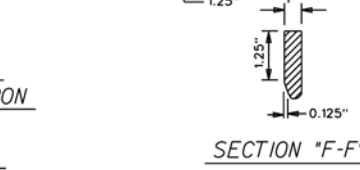


SECTION "D-D"

P.L.C. PATTERN NO. 2A
A.S.T.M. CLASS 30 GRAY IRON
APPROX. WT. 145 LBS.
STREET TYPE COVER
TO BE USED IN STREETS & DRIVES



SECTION "E-E"



SECTION "F-F"

REV.	DATE	DESCRIPTION
RRB		
REV#1	10/28/13	FOUNDATION REVISION

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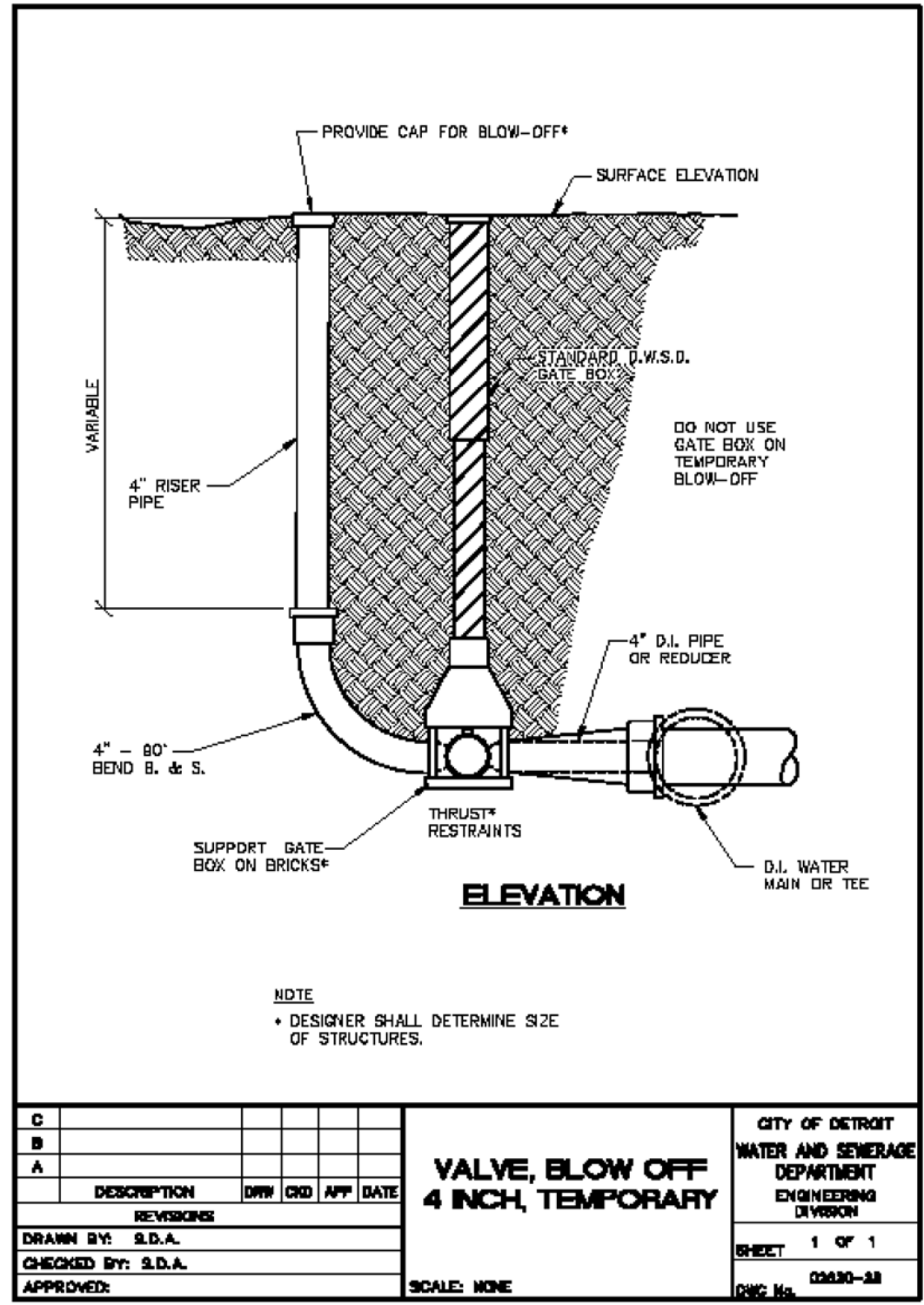
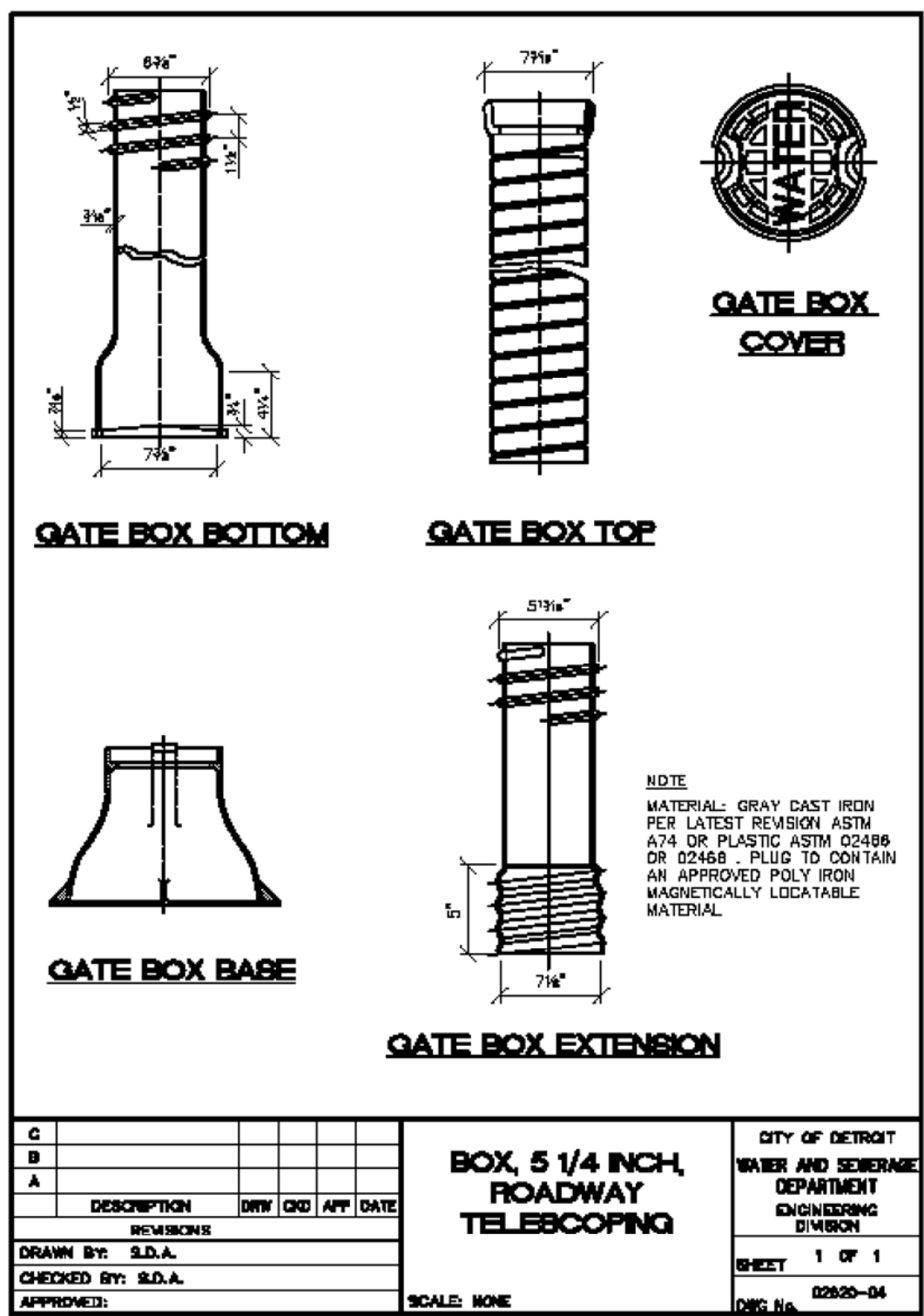
HANDHOLE DETAILS

ISSUED FOR:	DATE:	BY:
JOB NO. DTE 2025-09T		
SHEET 30 (437)		

PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED: DATE: BY: RUSERS

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PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED: 04/28/13 BY: SUSERS



NOTES:
 WORK THIS SHEET WITH SHEET 29.
 THRUST BLOCKS ARE INCLUDED IN THE PAY ITEM "WATER MAIN, DI. 12 INCH. TR DET C".
 THE 4"-90° BEND, 4" RISER PIPE AND BLOW OFF CAP SHALL BE INCLUDED IN THE PAY ITEM "GATE VALVE AND BOX, 4 INCH".

RRB									
REV#	DATE	REV#	DATE	REV#	DATE	REV#	DATE	REV#	DATE
10/28/13	FOUNDATION	REVISION							

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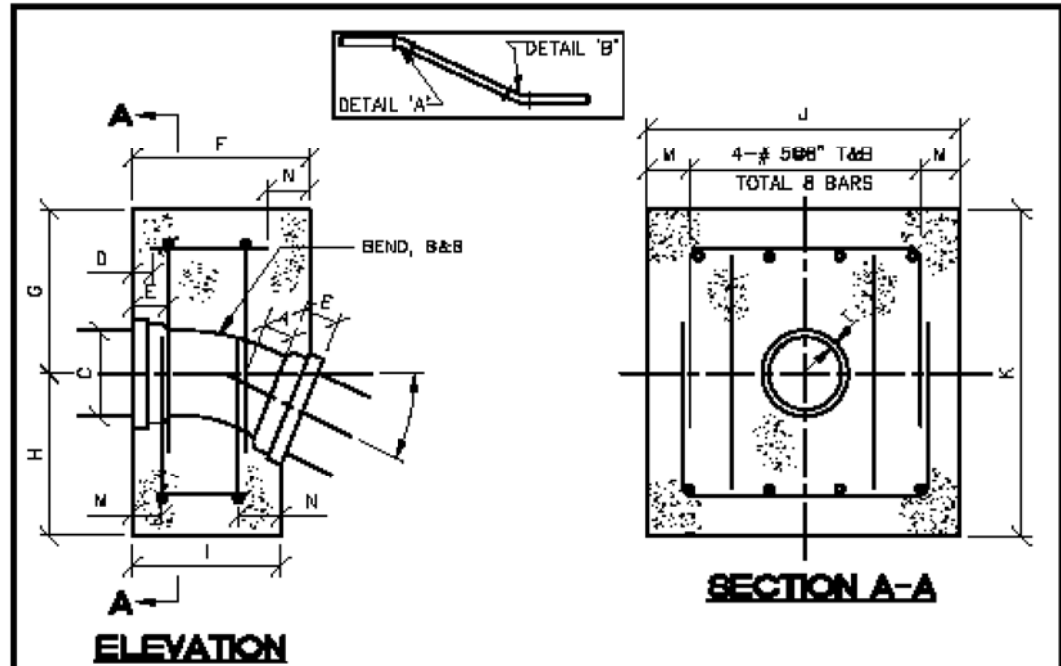
ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446

DWSD STANDARD DETAILS - 1

ISSUED FOR:	DATE:	BY:							
JOB NO.		DTE 2025-09T							
SHEET		31 (438)							

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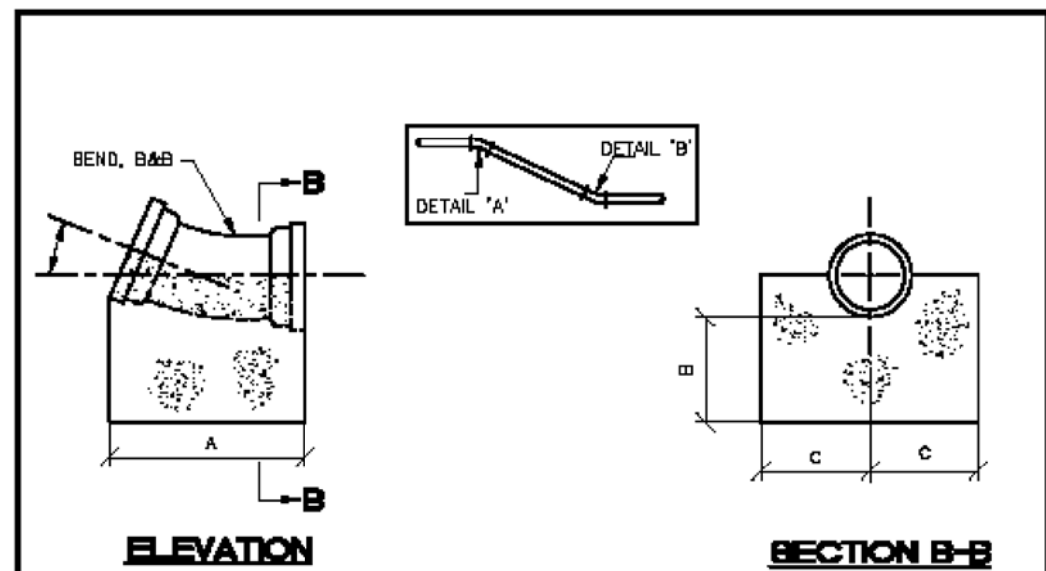
PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED STATES TIMES BY USERS



SCHEDULE OF THRUST BLOCK DIMENSIONS											DIMENSIONS - INCHES						
SIZE OF PIPE (IN)	BEND IN DEGREE	F (FT)	G (FT)	H (FT)	I (FT)	J (FT)	K (FT)	L (FT)	M (FT)	N (FT)	A	C	E	R	D	T	
8	22½	1.583	1.33	1.67	1.33	2.67	3.00	0.00	0.33	0.25	300°	5.0	10.8	4.0	15.08	1.50	0.55
8	45	1.583	1.33	1.67	1.00	2.67	3.00	0.00	0.33	0.25	300°	5.0	10.8	4.0	07.25	1.50	0.55
8	22½	1.583	1.33	1.67	1.33	2.67	3.00	0.33	0.33	0.25	400°	5.5	13.0	4.0	17.62	1.50	0.60
8	45	1.67	1.50	2.50	1.00	4.00	4.00	0.50	0.50	0.25	4012°	5.5	13.0	4.0	08.44	1.50	0.80
10	22½	1.83	1.50	2.50	1.42	3.50	4.00	0.50	0.50	0.25	4010°	8.5	15.3	4.0	22.62	1.50	0.88
10	45	1.92	1.67	2.83	1.00	4.00	4.50	0.67	0.67	0.25	4012°	6.5	15.3	4.0	10.88	1.50	0.68
12	22½	2.00	1.50	2.50	1.583	4.00	4.00	0.67	0.50	0.33	4012°	7.5	17.8	4.0	27.62	1.50	0.75
12	45	2.08	1.50	3.00	1.17	5.00	4.50	0.82	0.75	0.25	4014°	7.5	17.8	4.0	13.25	1.50	0.75
16	22½	2.17	1.67	2.83	1.583	5.00	4.50	0.83	0.75	0.33	4014°	8.0	22.2	4.0	27.62	1.75	0.89

NOTE
THE DESIGN ENGINEER IS RESPONSIBLE FOR ENSURING THAT THE THRUST BLOCKS ARE CORRECTLY SIZED FOR EACH APPLICATION.

DETAIL 'A'			
C			
B			
A			
	DESCRIPTION	DRW	CRD
REVISIONS			
DRAWN BY: S.D.A.			
CHECKED BY: S.D.A.			
APPROVED:			
THRUST BLOCK, VERTICAL BEND (TRADITIONAL DWSD SIZING)		CITY OF DETROIT WATER AND SEWERAGE DEPARTMENT ENGINEERING DIVISION	
SCALE: NONE		SHEET 1 OF 2	
		DWG No. 03630-28	



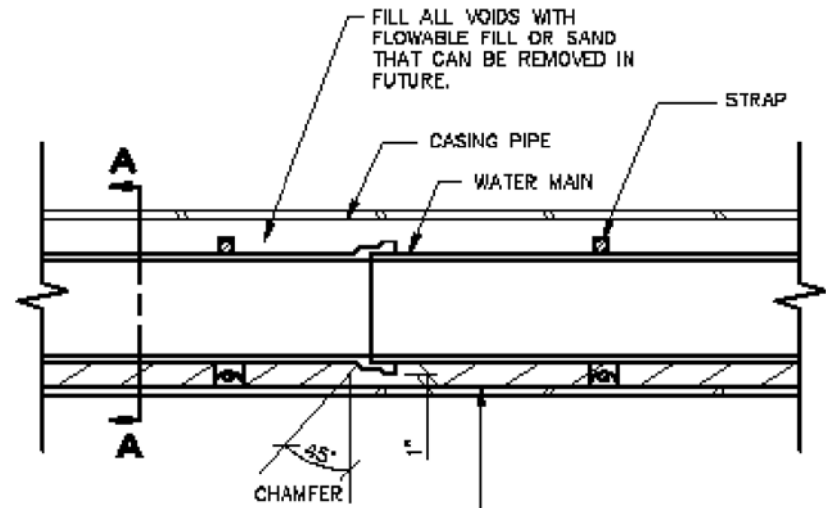
SIZE OF PIPE (IN)	BEND IN DEGREE	A (FT)	B (FT)	C (FT)
8	22½	1.67	1.00	1.00
8	45	1.67	1.00	1.00
8	22½	1.75	1.00	1.00
8	45	1.75	1.00	1.00
10	22½	1.92	1.00	1.00
10	45	1.92	1.00	1.00
12	22½	2.17	1.00	1.00
12	45	2.17	1.00	1.00
16	22½	2.25	1.00	1.25
16	45	2.25	1.00	1.25

NOTE
THE DESIGN ENGINEER IS RESPONSIBLE FOR ENSURING THAT THE THRUST BLOCKS ARE CORRECTLY SIZED FOR EACH APPLICATION.

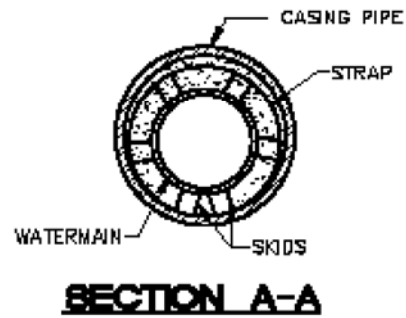
DETAIL 'B'			
C			
B			
A			
	DESCRIPTION	DRW	CRD
REVISIONS			
DRAWN BY: S.D.A.			
CHECKED BY: S.D.A.			
APPROVED:			
THRUST BLOCK, VERTICAL BEND (TRADITIONAL DWSD SIZING)		CITY OF DETROIT WATER AND SEWERAGE DEPARTMENT ENGINEERING DIVISION	
SCALE: NONE		SHEET 2 OF 2	
		DWG No. 03630-27	

NOTES:
WORK THIS SHEET WITH SHEET 29.
THRUST BLOCKS ARE INCLUDED IN THE PAY ITEM "WATER MAIN, 01-12 INCH. TR DET C".
THE 4"-90° BEND, 4" RISER PIPE AND BLOW OFF CAP SHALL BE INCLUDED IN THE PAY ITEM "GATE VALVE AND BOX, 4 INCH".

RRB	10/28/13	FOUNDATION	REVISION	DESCRIPTION
			REV	DATE
 800 Corporate Blvd 2000 Detroit, MI 48226 313.961.3650 FAX: 313.961.0989 www.wadetrtrim.com				
CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446 DWSD STANDARD DETAILS - 2 JOE LADE STREET BRIDGE				
ISSUED FOR:	DATE:	BY:		
JOB NO.	DTE 2025-09T			
SHEET	32 (439)			



SKIDS STRAPPED TO WATER MAIN. SKIDS WILL BE NOTCHED TO PREVENT STRAP FROM RIDING AGAINST CASING PIPE. SKIDS SHOULD BE HARD WOOD.



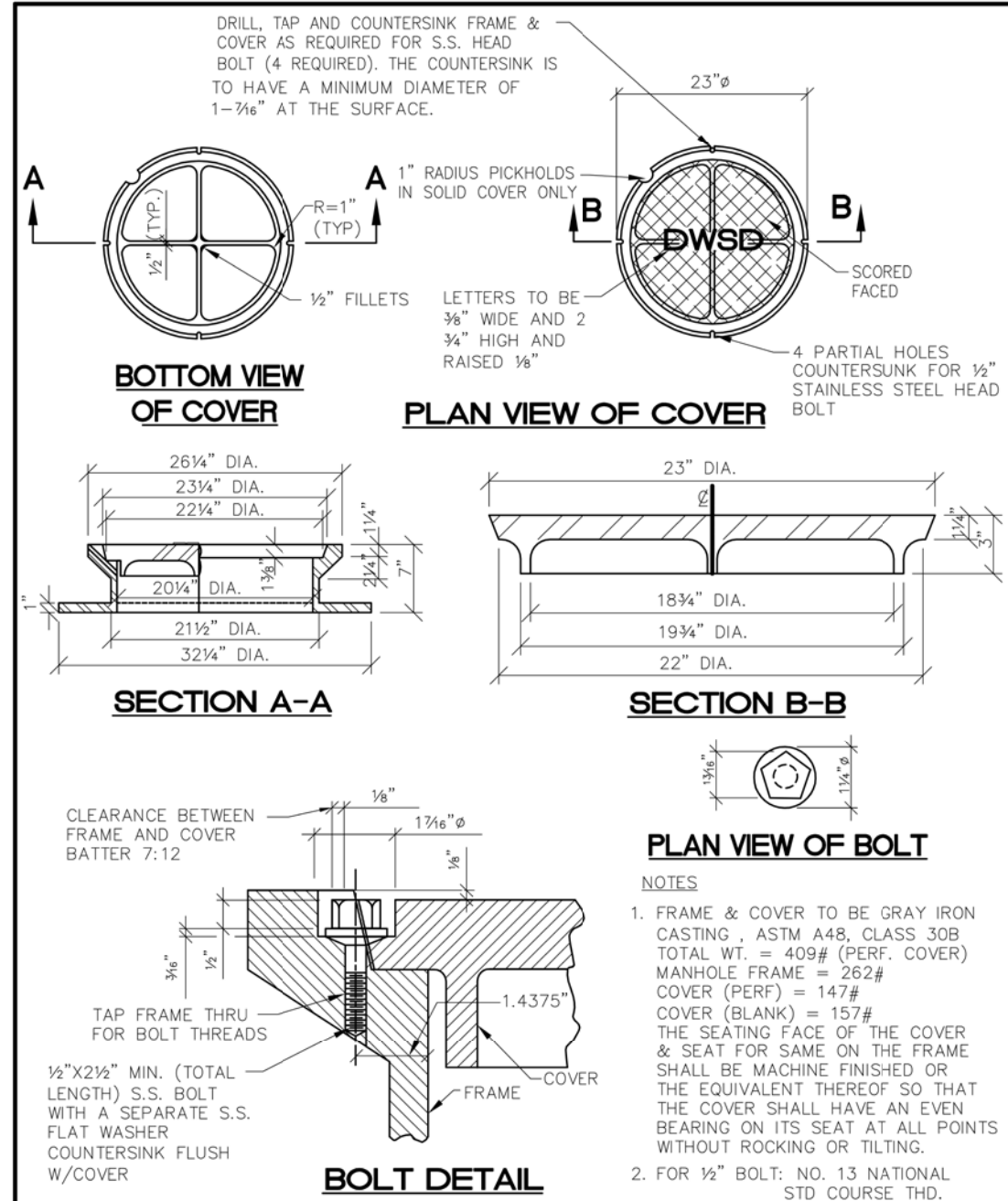
NOTES
THE ENDS OF THE CASING SHALL BE SUITABLY PROTECTED AGAINST THE ENTRANCE OF FOREIGN MATERIAL, BUT SHALL NOT BE TIGHTLY SEALED.

C					
B					
A					
DESCRIPTION	DRW	CKD	APP	DATE	
REVISIONS					
DRAWN BY: S.D.A.					
CHECKED BY: S.D.A.					
APPROVED:					

CASING PIPE SECTION FOR WATERMAIN

CITY OF DETROIT
WATER AND SEWERAGE
DEPARTMENT
ENGINEERING
DIVISION
SHEET 1 OF 1
DWG No. 02620-01

SCALE: NONE



C					
B					
A					
DESCRIPTION	DRW	CKD	APP	DATE	
REVISIONS					
DRAWN BY: S.D.A.					
CHECKED BY: S.D.A.					
APPROVED:					

MANHOLE, COVER WITH FRAME

CITY OF DETROIT
WATER AND SEWERAGE
DEPARTMENT
ENGINEERING
DIVISION
SHEET 1 OF 1
DWG No. 02600-07

SCALE: NONE

NOTES:

WORK THIS SHEET WITH SHEET 29.
THRUST BLOCKS ARE INCLUDED IN THE PAY ITEM "WATER MAIN. 01. 12 INCH. TR DET G".
THE 4"-90° BEND, 4" RISER PIPE AND BLOW OFF CAP SHALL BE INCLUDED IN THE PAY ITEM "GATE VALVE AND BOX. 4 INCH".

REV.	DATE	DESCRIPTION
REV#1	10/28/13	FOUNDATION REVISION

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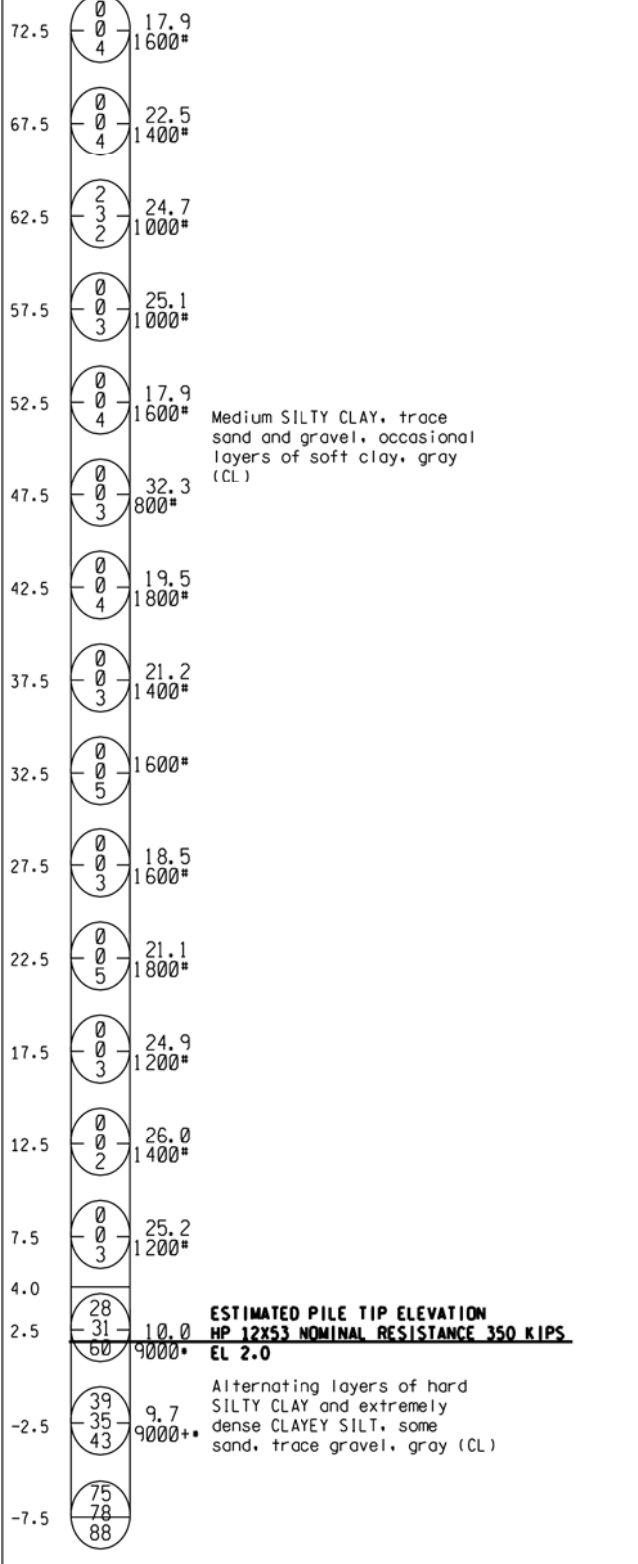
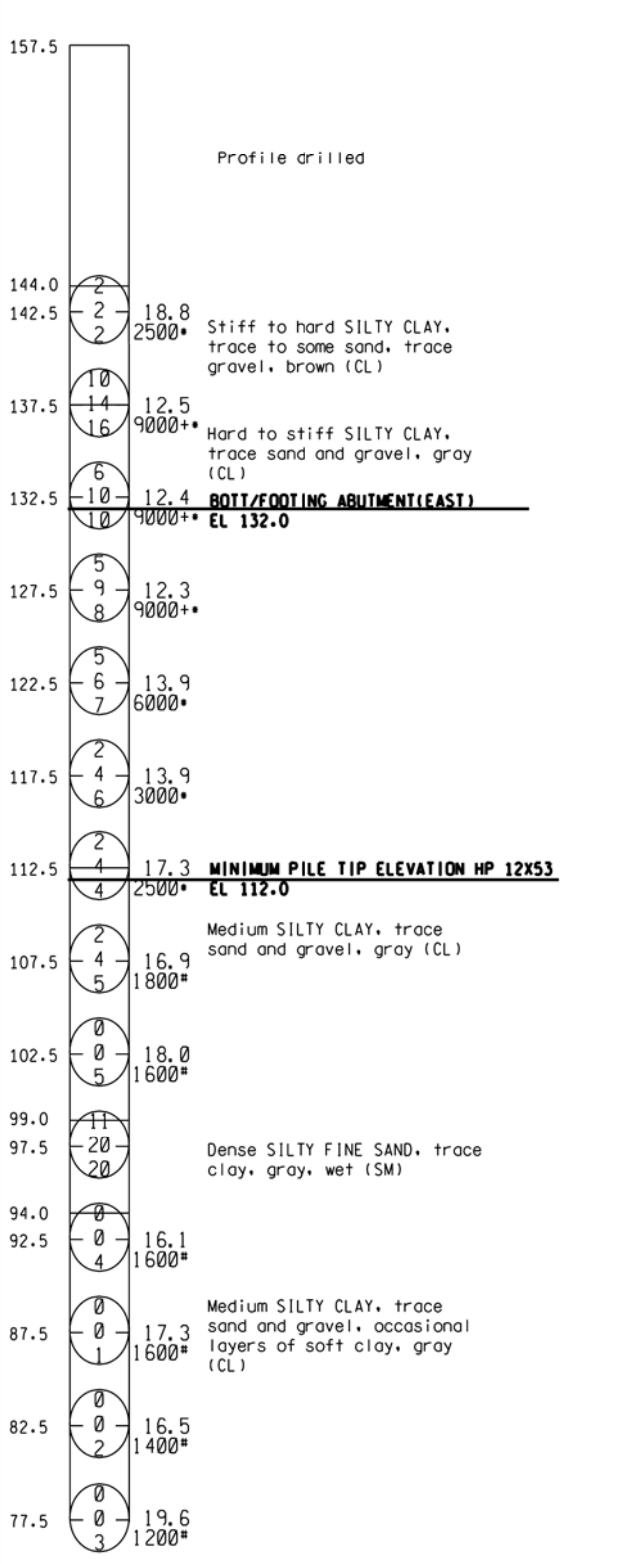
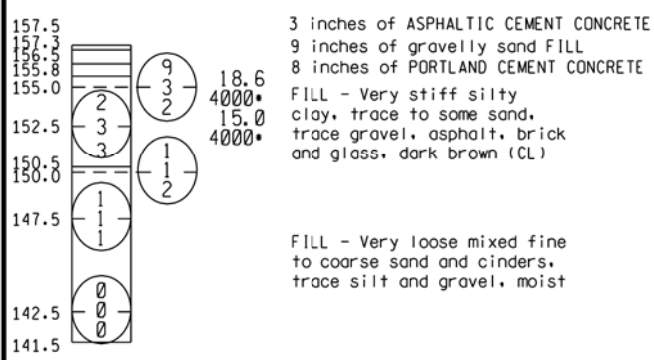
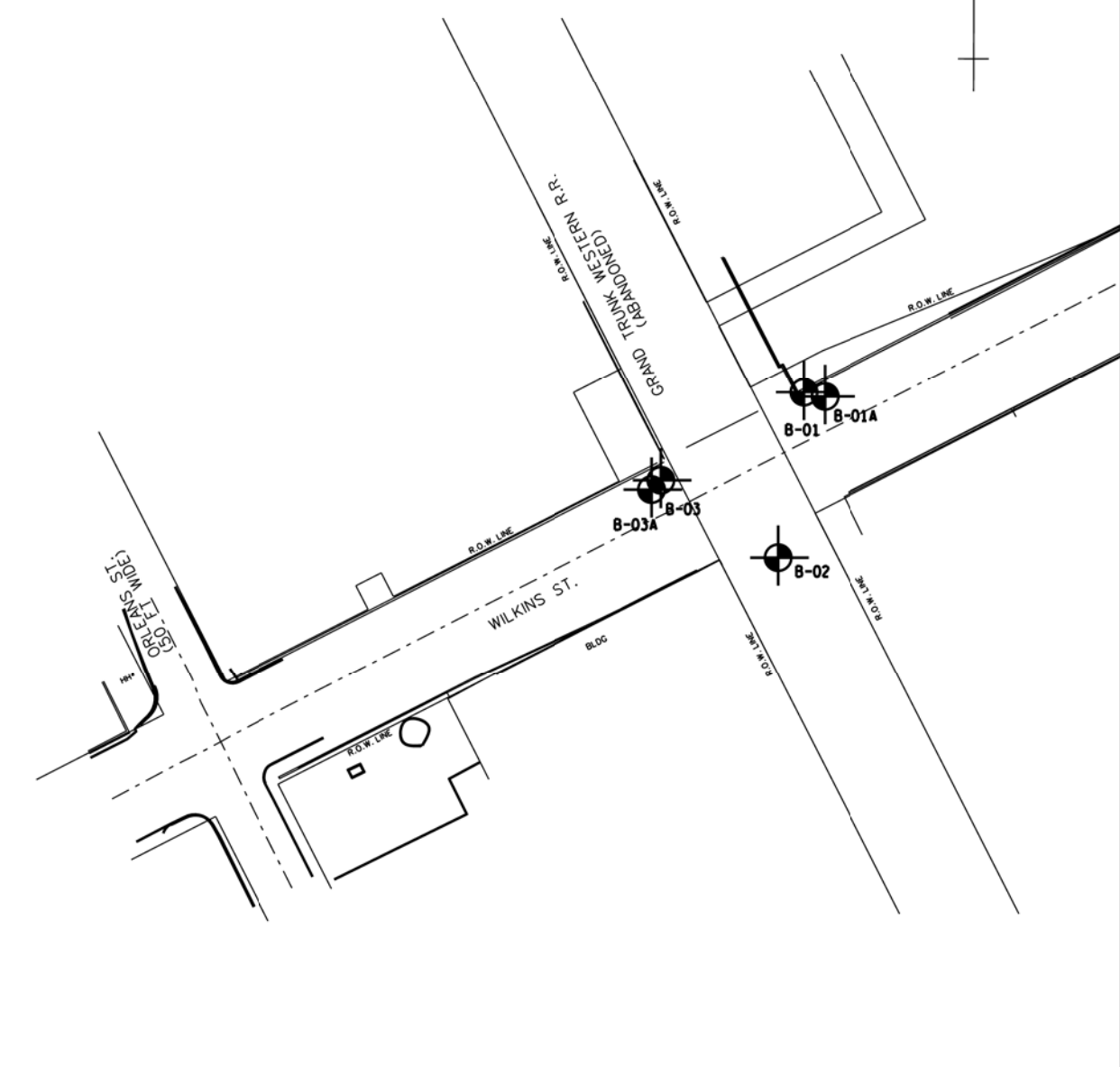
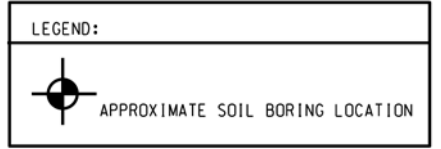
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446
DWSD STANDARD DETAILS - 3

ISSUED FOR:	DATE:	BY:
JOB NO.	DTE 2025-09T	
SHEET	33	(440)

TEST BORING NO. B-01
GROUND SURFACE EL. 157.5 FT DCD
(ESTIMATED FROM EXISTING DRAWINGS)

TEST BORING NO. B-01A
GROUND SURFACE EL. 157.5 FT DCD
(ESTIMATED FROM EXISTING DRAWINGS)

TEST BORING NO. B-01A (CONTINUED)



NOTES:
GROUNDWATER WAS NOT REPORTED DURING OR UPON COMPLETION OF DRILLING
BORING TERMINATED AT A DEPTH OF 16.0 FEET BELOW EXISTING GRADE (EL. 141.5 FEET DCD) ON OBSTRUCTION.
DATE STARTED: 10-03-12
DATE COMPLETED: 10-03-12
LOGGED BY: S.SWAMINATHAN (SOMAT)
CHECKED BY: A.OGRADY (SOMAT)
DRILL RIG : CME 75
METHOD: SPT AUTO
BACKFILL: CUTTINGS/PLUG

NOTES:
GROUNDWATER REPORTED DURING DRILLING AT 58.5 FEET BELOW EXISTING GRADE (EL. 99.0 FEET DCD)
GROUNDWATER WAS NOT REPORTED UPON COMPLETION OF DRILLING
BORING TERMINATED AT A DEPTH OF 165.0 FEET BELOW EXISTING GRADE (EL. MINUS 7.5 FEET DCD).
DATE STARTED: 10-03-12
DATE COMPLETED: 10-04-12
LOGGED BY: S.SWAMINATHAN/ K.BROWN(SOMAT)
CHECKED BY: A.OGRADY (SOMAT)
DRILL RIG : CME 75
METHOD: SPT AUTO
BACKFILL: GROUT

13 1ST 6 inch NUMBERS IN CIRCLES DENOTE NUMBER OF BLOWS
16 2ND 6 inch REQUIRED TO DRIVE A 2 inch O.D. (1 1/2 inch I.D.)
14 3RD 6 inch SPLIT SPOON SAMPLER 3 SUCCESSIVE 6 inch INCREMENTS USING A 140 LB HAMMER FALLING 2.5 ft.

37/0 WHERE THE SAMPLER IS DRIVEN DISTANCES OTHER THAN 18 inches, THE DISTANCE IS SHOWN IN THE CIRCLE WITH THE NUMBER OF BLOWS IN THE FORM OF A FRACTION. (DISTANCE IS IN INCHES).

NR NO RECOVERY

LABORATORY AND FIELD TEST RESULTS SHOWN ON THE RIGHT COLUMN OF EACH LOG INDICATE:
MC - MOISTURE CONTENT (PERCENT)
UCS - UNCONFINED COMPRESSIVE STRENGTH LABORATORY DETERMINED POUNDS/SQ.FT (PSF)
*PP - UNCONFINED COMPRESSIVE STRENGTH USING POCKET PENETROMETER POUNDS/SQ.FT (PSF)
#TV - UNCONFINED COMPRESSIVE STRENGTH USING TORVANE TEST POUNDS/SQ.FT (PSF)
± R - DISTURBED SAMPLE

CONSISTENCY WAS DETERMINED BY INSPECTION OF SAMPLES AND SUBSTANTIATED BY SOIL RESISTANCE TO DRILLING TOOLS (CASING OR AUGER). UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) GROUP SYMBOL DETERMINED PER ASTM VISUAL-MANUAL PROCEDURES.
THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT THE SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.

GROUNDWATER LEVELS REPRESENT THE CONDITIONS AT THE TIME THE MEASUREMENTS WERE OBTAINED AND SHOULD BE EXPECTED TO FLUCTUATE THROUGHOUT THE YEAR. GROUNDWATER LEVELS MAY ALSO BE INFLUENCED BY RESIDUAL BORING WATER.

PLAN REVISIONS							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



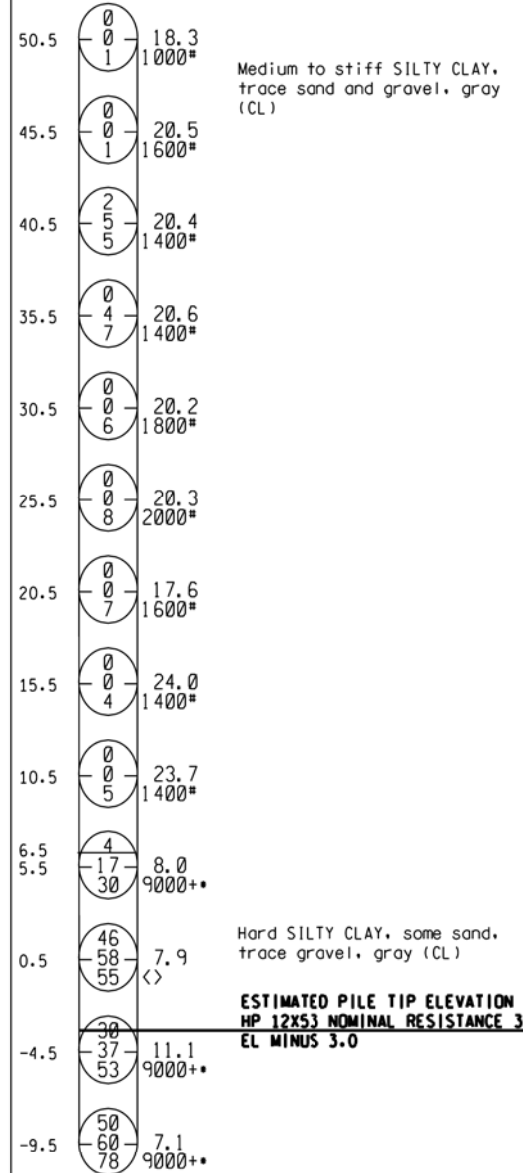
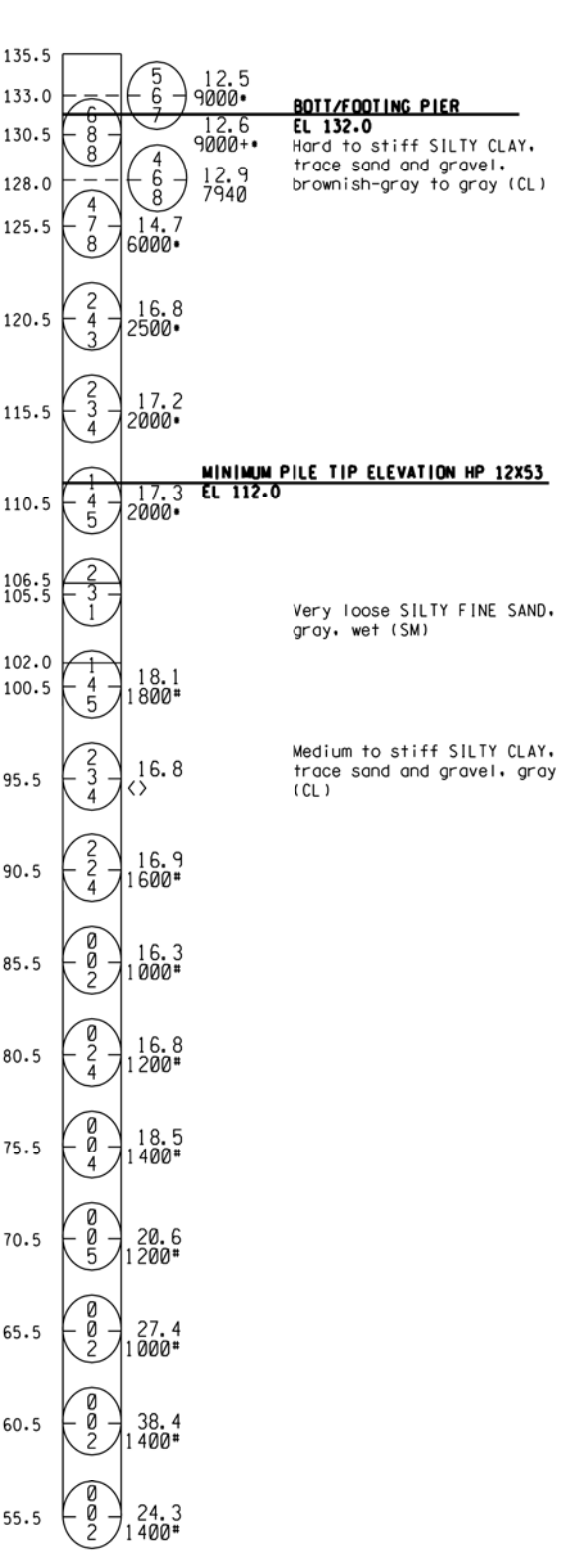
NO SCALE

DRAWN BY: CJW
CHK'D BY: JZ CORR BY: CJW
DATE: 01/23/2013
FILE:

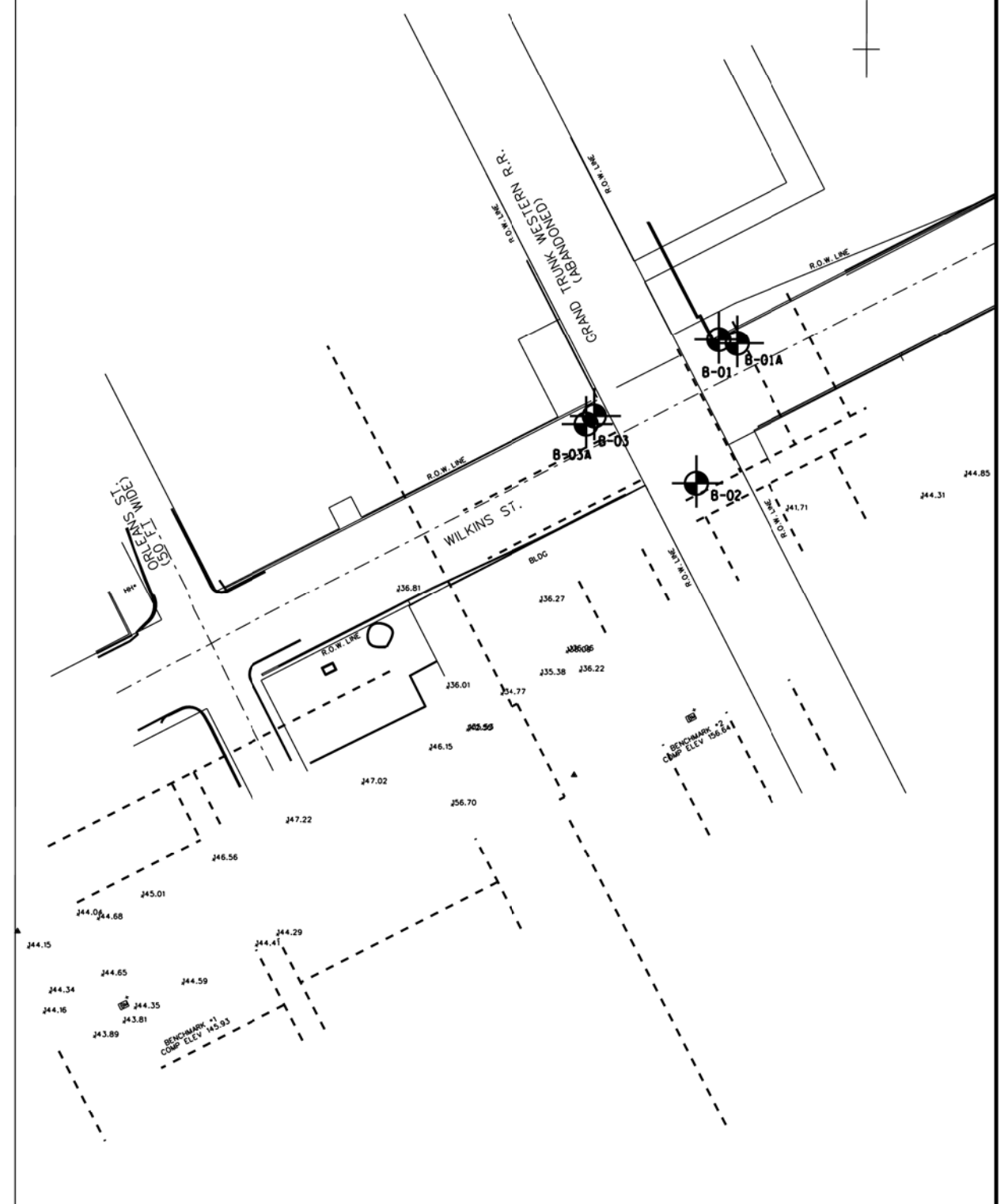
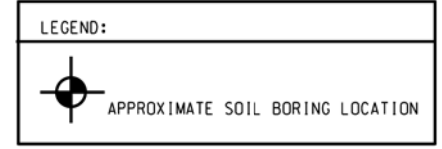
SOIL BORING DATA
WILKINS STREET BRIDGE OVER DEQUINDRE CUT
DRAWING SHEET

TEST BORING NO. B-02
 GROUND SURFACE EL. 135.5 FT DCD
 (ESTIMATED FROM EXISTING DRAWINGS)

TEST BORING NO. B-02 (CONTINUED)



NOTES:
 GROUNDWATER REPORTED DURING DRILLING AT 28.5 FEET BELOW EXISTING GRADE (EL. 107.0 FEET DCD)
 GROUNDWATER WAS NOT REPORTED UPON COMPLETION OF DRILLING
 BORING TERMINATED AT A DEPTH OF 145.0 FEET BELOW EXISTING GRADE (EL. MINUS 9.5 FEET DCD).
 DATE STARTED: 10-01-12
 DATE COMPLETED: 10-02-12
 LOGGED BY: S.SWAMINATHAN/ K.BROWN(SOMAT)
 CHECKED BY: A.OGRADY (SOMAT)
 DRILL RIG : CME 75
 METHOD: SPT AUTO
 BACKFILL: GROUT



13 1ST 6 inch
 16 2ND 6 inch
 14 3RD 6 inch

NUMBERS IN CIRCLES DENOTE NUMBER OF BLOWS REQUIRED TO DRIVE A 2 inch O.D. (1 1/2 inch I.D.) SPLIT SPOON SAMPLER 3 SUCCESSIVE 6 inch INCREMENTS USING A 140 LB HAMMER FALLING 2.5 ft.

37/0 WHERE THE SAMPLER IS DRIVEN DISTANCES OTHER THAN 18 inches, THE DISTANCE IS SHOWN IN THE CIRCLE WITH THE NUMBER OF BLOWS IN THE FORM OF A FRACTION. (DISTANCE IS IN INCHES).

NR NO RECOVERY

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 ± R - DISTURBED SAMPLE

CONSISTENCY WAS DETERMINED BY INSPECTION OF SAMPLES AND SUBSTANTIATED BY SOIL RESISTANCE TO DRILLING TOOLS (CASING OR AUGER). UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) GROUP SYMBOL DETERMINED PER ASTM VISUAL-MANUAL PROCEDURES.
 GROUNDWATER LEVELS REPRESENT THE CONDITIONS AT THE TIME THE MEASUREMENTS WERE OBTAINED AND SHOULD BE EXPECTED TO FLUCTUATE THROUGHOUT THE YEAR. GROUNDWATER LEVELS MAY ALSO BE INFLUENCED BY RESIDUAL BORING WATER.

THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT THE SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.

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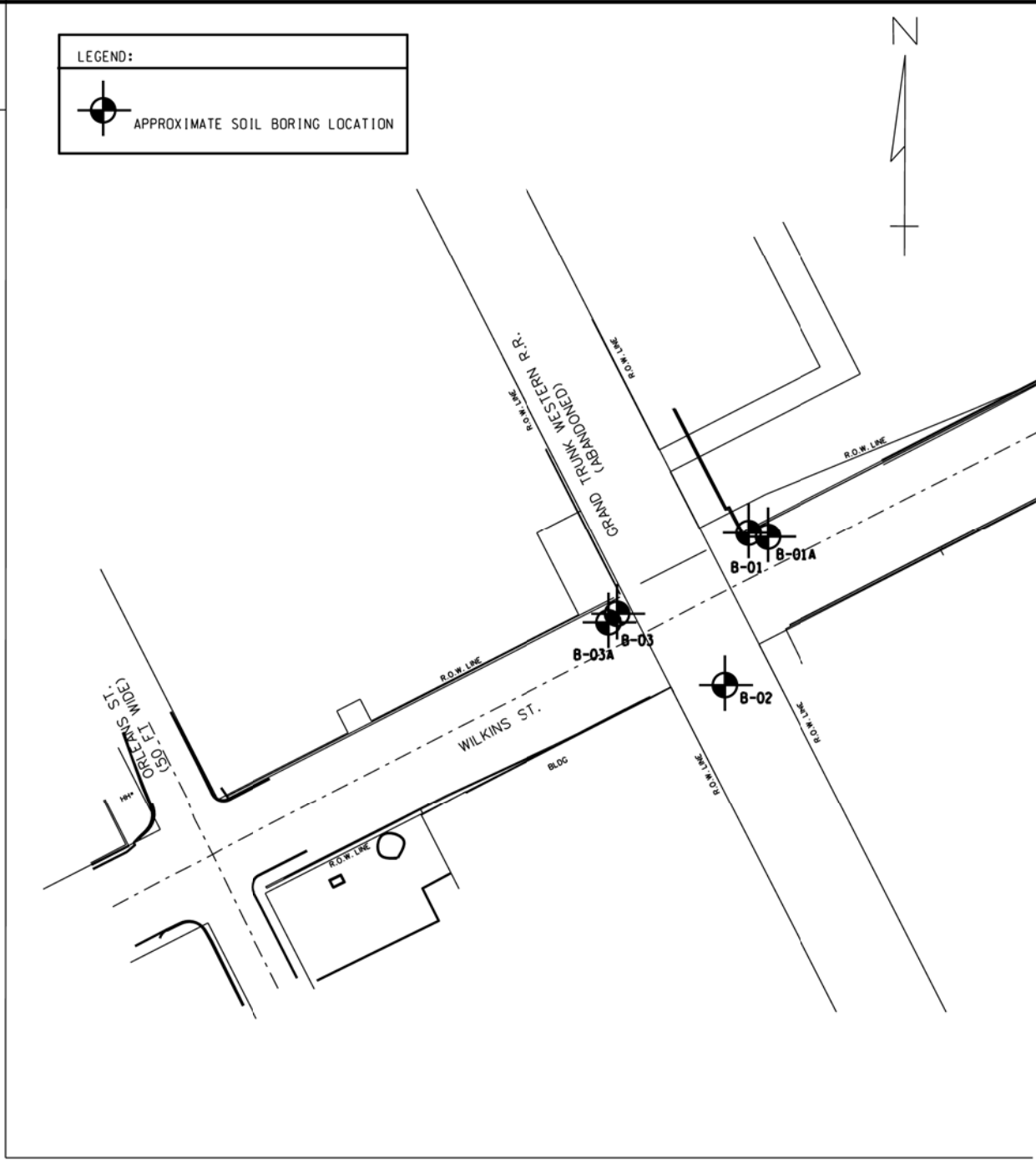
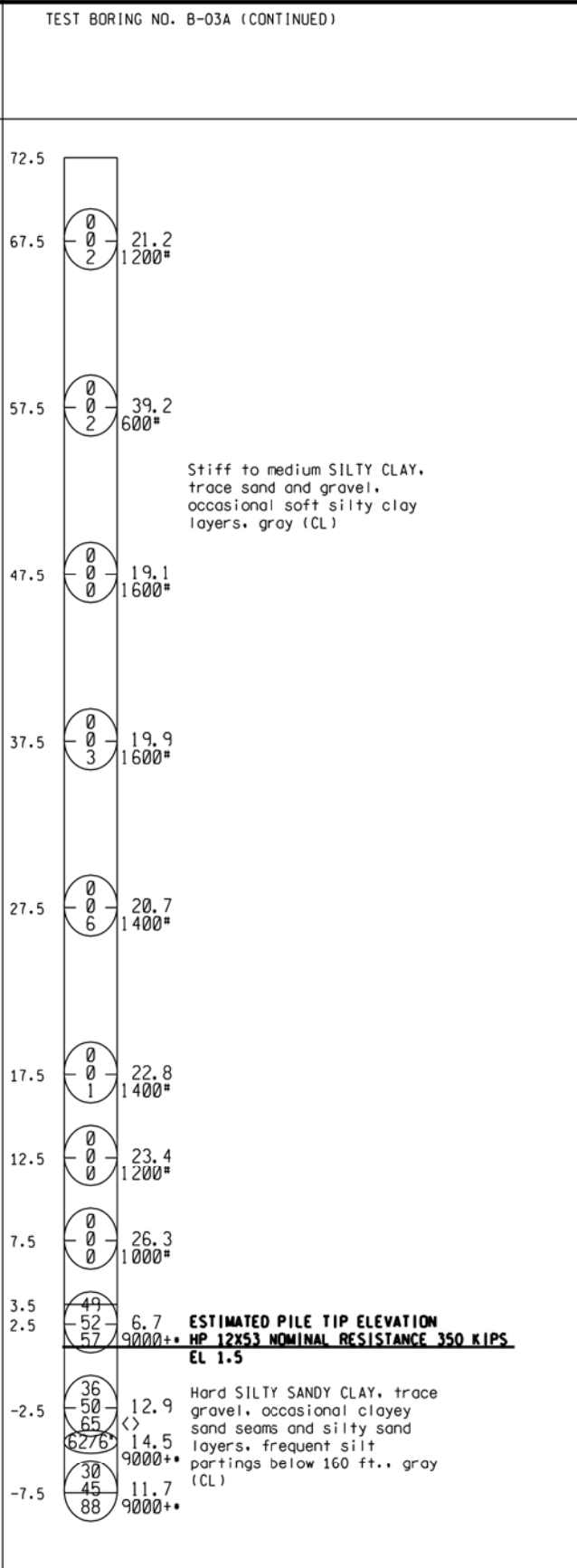
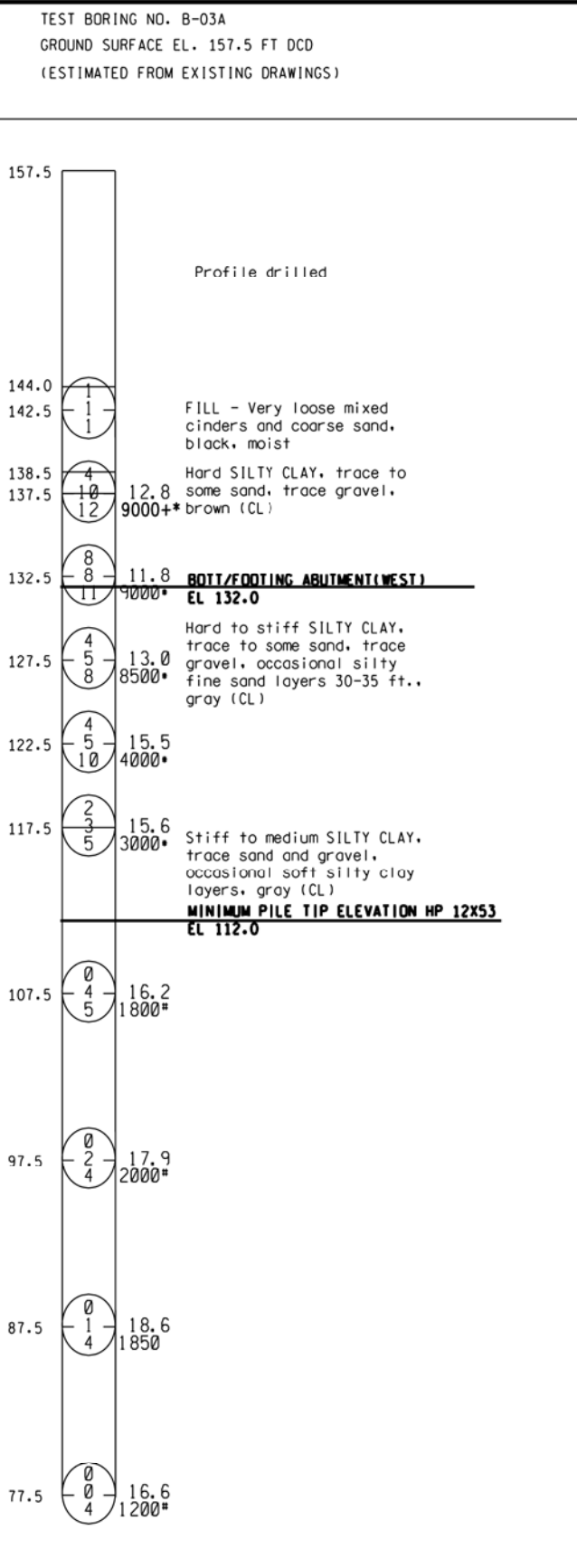
NO SCALE

DRAWN BY: CJW
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 CORR BY: CJW
 FILE:

DATE: 01/23/2013

SOIL BORING DATA
 WILKINS STREET BRIDGE OVER DEQUINDRE CUT

DRAWING SHEET



NOTES:
GROUNDWATER REPORTED DURING DRILLING AT 153.0 FEET BELOW EXISTING GRADE (EL. 4.5 FEET DCD)
GROUNDWATER WAS NOT REPORTED UPON COMPLETION OF DRILLING
BORING TERMINATED AT A DEPTH OF 165.0 FEET BELOW EXISTING GRADE (EL. MINUS 7.5 FEET DCD).
DATE STARTED: 10-08-12
DATE COMPLETED: 10-09-12
LOGGED BY: S.SWAMINATHAN (SOMAT)
CHECKED BY: A.OGRADY (SOMAT)
DRILL RIG : CME 75
METHOD: SPT AUTO
BACKFILL: GROUT

13 1ST 6 inch
16 2ND 6 inch
14 3RD 6 inch

NUMBERS IN CIRCLES DENOTE NUMBER OF BLOWS REQUIRED TO DRIVE A 2 inch O.D. (1 1/2 inch I.D.) SPLIT SPOON SAMPLER 3 SUCCESSIVE 6 inch INCREMENTS USING A 140 LB HAMMER FALLING 2.5 ft.

NR NO RECOVERY

37/0 WHERE THE SAMPLER IS DRIVEN DISTANCES OTHER THAN 18 inches, THE DISTANCE IS SHOWN IN THE CIRCLE WITH THE NUMBER OF BLOWS IN THE FORM OF A FRACTION. (DISTANCE IS IN INCHES).

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SOIL BORING DATA
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DRAWING SHEET