

INDEX OF SHEETS

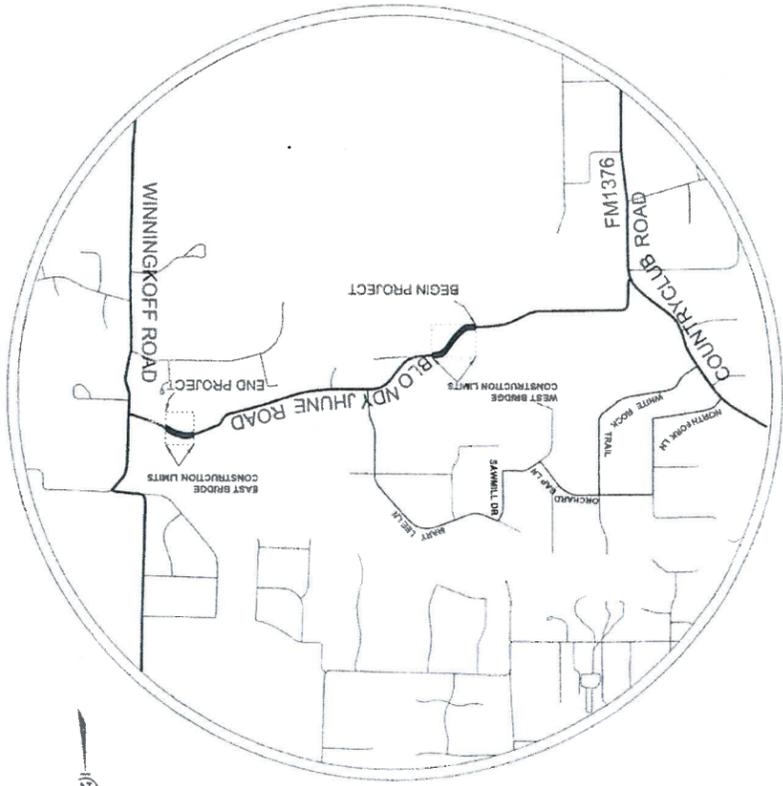
1	Cover
2	General Notes
3	Quantity Summary
4	Roadway Typical Sections
5	Project Layout
6-7	Right of Way Sheets
8	Traffic Control Plan
9	Detour Layout
10	Roadway Plan Profile - West
11	Roadway Plan Profile - East
12	Paving Details
13	Signing & Striping Plan
14	Drainage Area Map
15	Bridge Layout - West Bridge
16	Bridge Layout - East Bridge
17	Retaining Wall Typ Sections - West Bridge
18	Retaining Wall Typ Sections - East Bridge
19-22	Retaining Wall Plan/Prof - West
23-26	Retaining Wall Plan/Prof - East
27	Soil Boring Log Sheet
28	Gabion Wall Plan West
29	Gabion Wall Plan East
30	Gabion Wall Sections West
31	Gabion Wall Sections East
32	Gabion Basket Details
33	Erosion Control Plan
34	SWPPP
35	Driveway Details
36	Storm Drain Plan & Profile
37	Wall Mounted MBGF Details
38-45	Cross Sections

TXDOT STD DETAILS

SETP-PD	MBGF Details
GF (31) -14	MBGF TRANSITION (TL-2)
GF (31) TL 2-11	Single Guardrail Terminal SKT-31
SGT (8) 31-14	Single Guardrail Terminal SKT-31 (Steel Post)
SGT (8S) 31-14	Bridge Abutment Details
AIG 28	Bridge Abutment Details 15 deg skew
AIG 28 -15	Bridge Slab Details
SIG 28	Bridge Slab Details 15 deg skew
SIG 28 -15	PCI Girder Standard Designs
IGD	PCI Girder Details
T411	Traffic Rail Texas Classic
BAS-C	Bridge Approach Slab
FD	Common Foundation Details
IGEB	Elastomeric Bearing and Girder End Details
IGMS	Miscellaneous Slab Details
IGTS	Thickened Slab End Details
MEBR-C	Minimum Erection Bracing Requirements
SEI-A	Sealed Expansion Joint Type A
RW 1(L)C	Retaining Walls
RW 2	Retaining Wall Miscellaneous Details
EC (2) -93	Rock Filter Dam
EC(3) -93	Construction Exits
ECL	Erosion Control Logs
BC (1)-14-BC (12)-14	Barricade and Construction Details (29 Sheets)
WZ (RCD)-13	Work Zone Road Closure Details

PROJECT LOCATION MAP

NOT TO SCALE



AS-BUILT

**CONSTRUCTION PLANS
BLONDY JHUNE ROAD
BRIDGE REPLACEMENT PLANS**

CITY COUNCIL

- | | |
|-----------------|-----------------------|
| JIM OLK | MAYOR |
| KATHLEEN PEELE | MAYOR PRO TEM, SEAT 6 |
| WAYNE MILSAP | COUNCILMEMBER, SEAT 1 |
| TIM BANAY | COUNCILMEMBER, SEAT 2 |
| STEVE DUKE | COUNCILMEMBER, SEAT 3 |
| PHILIP LAWRENCE | COUNCILMEMBER, SEAT 4 |
| DEBBIE FISHER | COUNCILMEMBER, SEAT 5 |

OWNER

CITY OF LUCAS

665 COUNTRY CLUB ROAD
LUCAS, TX 75002

CITY MANAGER

JONI CLARKE

PUBLIC WORKS DIRECTOR / CITY ENGINEER

STANTON FOERSTER, P.E.

OFFICE: (972) 912-1208

EMAIL: stanton@lucastexas.us

DESIGN CONSULTANT

METROPOLITAN INFRASTRUCTURE, PLLC

10945 ESTATE LN, SUITE E225

DALLAS, TEXAS 75238

PROJECT MANAGER/DESIGN ENGINEER

LOUIS FRISBIE, P.E.

TEL: (214) 341-1501

FAX: (214) 341-1640

EMAIL: lfrisbie@metroinfrastructure.com



MAY 27, 2016

GENERAL NOTES

1. The Texas Department of Transportation (TxDOT) Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges, 2014 Edition, are hereinafter, collectively referred to as "The Standard Specifications".
2. The work order for this project is estimated to be issued during the month of August, 2016. The Contractor shall begin work on the date specified on the work order. Any revisions/change orders provided to Contractor for additional work or reduction in work does not constitute a new start date.
3. The Contractor shall secure all necessary permits before any work may begin. All permit fees shall be considered incidental to pay items provided. Street excavation permits applications must be submitted at City Hall, Lucas, at least two working days before the start of construction.
4. The Contractor shall provide a construction schedule update to the Engineer and the Construction Inspector with the monthly pay estimate.
5. The Contractor will be paid only for the work which is completed in strict conformance to the plans and construction details.
6. No final payment to Contractor shall be released prior to the acceptance of the final inspection from the authorized personnel of the Public Works Department.
7. The Contractor shall contact the Engineer should any discrepancies be found in the construction plans and/or the special provisions. The Contractor will not be compensated for any work not authorized by the Engineer.
8. The Contractor shall notify the City's Construction Inspector or Director of Public Works two working days before starting work, so that proper job inspection can be scheduled.
9. The Contractor shall notify the City of Lucas Construction Inspector or Director of Public Works two working days in advance of any concrete placing or asphalt laying operation.
10. The Contractor must furnish at least three phone numbers where responsible personnel can be reached in case of emergency during working and non-working hours. If there are any changes, the information must be updated immediately for the duration of the project.
11. If cultural resources (archaeological findings unearthed) are located during construction, work shall stop immediately in that area.
12. The Engineer/Inspector will not supervise, direct or have control over the Contractor's work; nor will the Engineer/Inspector have authority over or be responsible for the means, methods, techniques, sequences or procedures of construction; for the safety precautions and programs incident to the work of Contractor; or for any failure of Contractor to comply with laws, rules, regulations, ordinances, codes or orders applicable to Contractor furnishing and performing the work.
13. The Contractor shall be responsible for resetting benchmarks affected by the construction or establishing new ones (no separate pay item). New benchmarks are to be noted on the "As-Built's".
14. All concrete shall be in compliance with the specified classes of concrete per TxDOT specifications.
15. The Contractor shall submit to the Engineer the complete concrete mix (batch) design at the pre-construction conference and/or at least ten working days prior to the start of any concrete placing operations (tax information is not acceptable). If volumetric concrete is used, the same information is required. Volumetric concrete is NOT approved for placement of concrete for street paving, but may be used for sidewalk, curb and gutter, driveway approach, and composite gation complete concrete mix design.)
16. All reinforcing steel and dowel bars in pavement shall be supported and maintained at the correct clearances by the use of bar chairs or other approved support.
17. The use of wood forms for pavement construction will be permitted only for heaveouts, alleys, sidewalks, driveways, barrier free ramps and intersections. Wood forms may be permitted for other uses, but only on a case-by-case basis, and must be explicitly authorized by the Engineer.
18. Dummy joints shall be sawed in the pavement on this project. Dummy joints will be spaced 15 feet on centers unless directed otherwise by the Engineer. Spacing variations shall be made at blockouts, construction joints and street intersections to line up with existing paving joints as directed by the City of Lucas. The spacing between and street intersections to line up with existing paving joints as directed by the City of Lucas. All dummy joints will be sawed not later than 12 hours after the placement of the pavement, as directed by the City of Lucas. See the Standard Construction Details, for additional information.
19. Drive approaches damaged by the Contractor shall be removed and replaced to match the existing conditions, at the Contractor's expense and to the satisfaction of the City of Lucas or its representative. Drainage pipe under drive approaches damaged by the Contractor shall be replaced or repaired to equal or better than existing condition, at the Contractor's expense.

20. All driveway turnouts shall be constructed as shown in the driveway details.
21. The Contractor shall protect all existing fences. Any damages due to Contractor's action shall be repaired or replaced at his/her expense.
22. Removal and Replacement of Fence will be measured for payment for linear foot of fence set in its new location.
23. When encroaching masonry walls, landscaping plants and materials are to be removed, suitable material and plants will be salvaged for the property owner as directed by the Engineer. Plants, shrubbery, landscaping, or any living trees shall be protected and shall not be removed from the work site. Damage to these materials shall be corrected at the Contractor's expense. The Contractor should contact the Engineer prior to any removal.
24. The Contractor is responsible for protection of all existing facilities in and around the project area. These include trees, plantings, concrete paving, benches, signs and other facilities found on site. The Contractor shall repair or replace, at no cost to the City, any facilities damaged during construction.
25. Before the start of the construction, residential sprinkler systems must be checked in the presence of the property owner. Adjustments to existing residential sprinkler systems during construction shall be repaired at the Contractor's expense. Adjustment of commercial sprinkler systems requires obtaining a cost estimate for adjustment of all related components including, but not limited to, valves, pipes, wiring and heads. The cost estimate will be submitted to the Engineer for review, and will be added to the contract, if approved.
26. The locations of driveways, steps, etc., as shown on these plans are approximate. Accurate locations shall be determined at the time of construction after consultation with the Engineer.
27. Existing utilities are shown at approximate locations based on best available records and limited field data. Not all utilities may be shown. The Contractor shall verify exact locations and depths of all utilities prior to beginning construction. Any damages to utilities shall be repaired at Contractor's expense.
28. Location of all underground utilities and storm drainage facilities in the area of storm drain construction and other areas of possible conflict will be uncovered to determine exact locations prior to start of construction. The Engineer's direct authorization is necessary before the "Pay Item" can be utilized, when a "Pay Item" is provided. The contractor shall provide station and elevation information for locations that are uncovered, in order to be paid. No separate pay item. Cost shall be subsidiary.
29. No paving work is authorized over or in close proximity to Water Utility work until a written paving release is issued and is on file with the Public Works Department. Water lines must be successfully pressure tested and chlorinated before released. Wastewater lines must be video inspected twice before being released.
30. Prior to beginning construction call 1-800-DIG-TESS (1-800-244-8377) at least two working days prior to beginning construction. Note that the location or facilities can be marked. If necessary, test ditches shall be dug to verify/determine actual field locations and conditions.
31. The Contractor shall provide a trench safety plan. This document shall be submitted to the City of Lucas at the pre-construction conference or prior to the start of construction. For more information, contact the City of Lucas Public Works Director or inspector.
32. The Contractor must have a written agreement with the property owner on file with the City before the Contractor may use or place any materials or equipment on private property, in addition, the Contractor shall provide a copy of the Temporary Certificate of Occupancy (CO) or Special Use Permit (SUP) as required of the property owner, when the Contractor elects to place excess fill on private property on a permanent basis. Letters of final approval and release from the affected property owner(s) must be submitted to the City before final payment on this project. No excess excavated material shall be deposited in low areas or along any natural drainage way, without written permission from the Engineer. If the Contractor shall remove the material at his own cost if the City so directs.

33. No trees shall be cut except on specific authority of the Engineer. Trees 6-inch or less in diameter are subsidiary to project (No separate pay item).
34. The Contractor is responsible for keeping streets, driveways and sidewalks adjacent to the project free of mud and debris from the construction at all times.
35. Mail boxes will be reset as directed by the Engineer. All mail boxes damaged by construction activities (or while being stored) shall be replaced with mail boxes of equal or better quality, and of a similar style to those being replaced.
36. Adjustment of unpaved drives behind property line to grade and restoration if the surface to equal or better than the original will be incidental on this project. No pay items will be provided.
37. No stop or yield sign is to be relocated or removed without prior approval by the City. The Contractor must call the City's Public Works Department and obtain permission for any changes in these signs.
38. Access to abutting property during the construction of this project must be maintained for emergency and local traffic. The roadway may be closed to that traffic.
39. Street intersections as required by the Engineer will be kept open to traffic by paving one-half width at a time. Payment for a layout will be provided in such cases.
40. The contractor may excavate the proposed roadway full width only with the prior approval of the Engineer. There shall be no additional expense to the City for any additional material necessary due to the full width excavation to maintain access for emergency and local traffic.
41. Traffic control - measurement for payment of traffic control shall include removal, installation and maintenance of all traffic control devices (warning signs, barricades, flagmen, arrow board, temporary pavement markings for detour (if applicable) and any other traffic control measures implemented as directed by the Engineer to maintain the necessary traffic lanes through the project.
42. Location of all underground utilities and storm drainage facilities in the area of storm drain construction and other areas of possible conflict will be uncovered to determine exact locations prior to start of construction. The Engineer's direct authorization is necessary before the "Pay Item" can be utilized, when a "Pay Item" is provided. The contractor shall provide station and elevation information for locations that are uncovered, in order to be paid. No separate pay item. Cost shall be subsidiary.
43. No paving work is authorized over or in close proximity to Water Utility work until a written paving release is issued and is on file with the Public Works Department. Water lines must be successfully pressure tested and chlorinated before released. Wastewater lines must be video inspected twice before being released.
44. Prior to beginning construction call 1-800-DIG-TESS (1-800-244-8377) at least two working days prior to beginning construction. Note that the location or facilities can be marked. If necessary, test ditches shall be dug to verify/determine actual field locations and conditions.
45. The Contractor shall provide a trench safety plan. This document shall be submitted to the City of Lucas at the pre-construction conference or prior to the start of construction. For more information, contact the City of Lucas Public Works Director or inspector.
46. The Contractor must have a written agreement with the property owner on file with the City before the Contractor may use or place any materials or equipment on private property, in addition, the Contractor shall provide a copy of the Temporary Certificate of Occupancy (CO) or Special Use Permit (SUP) as required of the property owner, when the Contractor elects to place excess excavated material on private property on a permanent basis. Letters of final approval and release from the affected property owner(s) must be submitted to the City before final payment on this project. No excess excavated material shall be deposited in low areas or along any natural drainage way, without written permission from the Engineer. If the Contractor shall remove the material at his own cost if the City so directs.
47. The use of wood forms for pavement construction will be permitted only for heaveouts, alleys, sidewalks, driveways, barrier free ramps and intersections. Wood forms may be permitted for other uses, but only on a case-by-case basis, and must be explicitly authorized by the Engineer.
48. Dummy joints shall be sawed in the pavement on this project. Dummy joints will be spaced 15 feet on centers unless directed otherwise by the Engineer. Spacing variations shall be made at blockouts, construction joints and street intersections to line up with existing paving joints as directed by the City of Lucas. The spacing between and street intersections to line up with existing paving joints as directed by the City of Lucas. All dummy joints will be sawed not later than 12 hours after the placement of the pavement, as directed by the City of Lucas. See the Standard Construction Details, for additional information.
49. Drive approaches damaged by the Contractor shall be removed and replaced to match the existing conditions, at the Contractor's expense and to the satisfaction of the City of Lucas or its representative. Drainage pipe under drive approaches damaged by the Contractor shall be replaced or repaired to equal or better than existing condition, at the Contractor's expense.

DESIGN	DATE	FILE	NUMBER	SHEET
DRAWN				
AP	APR 27, 2016			
LF				2
CITY OF LUCAS, TEXAS				
BLONDY JUUNE ROAD BRIDGES				
GENERAL NOTES				
 MI METROPOLITAN INFRASTRUCTURE, PLLC 10945 ESTATE LN, STE E225, DALLAS, TX, 75228 TEL: (214) 341-1460 FAX: (214) 341-1460 REGISTRATION NO. 0939				



ITEM CODE	DESC CODE	DESCRIPTION	QNTY	UNIT
100	6002	PREPARING ROW	13	STA
100	6016	PREP ROW (TREE) (GREATER THAN 36 TO 48 IN DIA)	2	EA
100	6017	PREP ROW (TREE) (GREATER THAN 8 IN DIA)	34	EA
104	6017	REMOVING CONC (DRIVEWAYS)	22	SY
105	6070	REMOVING STAB BASE & ASPH PAV (6"-8")	2622	SY
110	6001	EXCAVATION (ROADWAY)	225	CY
132	6006	EMBANKMENT (FINAL) (DENS CONT) (TY C)	850	CY
164	6027	CELL FBR MLCH SEED (PERM) (URBAN) (CLAY)	2475	SY
260	6002	LIME (HYDRATED LIME (SLURRY))	69	TON
260	6079	LIME TRT SUBGRADE(6")	3487	SY
247	2094	FL BS (CMP IN PLC) (TY D GR 2)	520	TON
340	6011	D - GR HMA (SQ) TY - B PG64 - 22	298	TON
360	6002	CONC PVMT (CONT REINF - CRCP) (8")	1811	SY
416	6004	DRILL SHAFT (36 IN)	336	LF
420	6014	CL C CONC (ABUT)(HPC)	36	CY
420	6123	CL K CONC (APPROACH SLAB)	67	CY
422	6002	REINF CONC SLAB (HPC)	3150	SF
423	6005	RETAINING WALL (SPREAD FOOTING)	3684	SF
425	6035	PRESTR CONC GIRDER (TX8)	420	LF
450	6012	RAIL (TY T411)	137	LF
454	6001	SEALED EXPANSION JOINT (4 IN) (SEJ - A)	120	LF
459	6001	GABIONS (PVC COATED) (Gravity Wall)	771	CY
459	6007	GABION MATTRESSES (PVC COATED) (12 IN)	82	SY
464	6003	RC PIPE (CL III) (18 IN)	122	LF
467	6363	SET (TY II) (18 IN) (RCP) (6: 1) (P)	6	EA
496	6004	REMOV STR (SET)	2	EA
496	2007	REMOV STR (PIPE)	102	LF
496	6041	REMOV STR (LARGE)	2	EA
500	6001	MOBILIZATION (10%)	1	LS
502	6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	6	MO
506	6002	ROCK FILTER DAMS (INSTALL) (TY 2)	96	LF
506	6011	ROCK FILTER DAMS (REMOVE)	96	LF
506	6020	CONSTRUCTION EXTS (INSTALL) (TY 1)	580	SY
506	6024	CONSTRUCTION EXTS (REMOVE)	580	SY
506	6042	BIODEG EROSN CONT LOGS (INSTL) (18")	1400	LF
506	6043	BIODEG EROSN CONT LOGS (REMOVE)	1400	LF
530	6004	DRIVEWAYS (CONC)	301	SY
540	6001	MTL W-BEAM GD FEN (TM POST)	684	LF
540	6002	MTL W - BEAM GD FEN (STEEL POST)	397	LF
542	6001	REMOVE METAL BEAM GUARD FENCE	691	LF
542	6002	REMOVE TERMINAL ANCHOR SECTION	6	EA
544	6001	GUARDRAIL END TREATMENT (INSTALL)	8	EA
550	6001	CHAIN LINK FENCE (INSTALL) (6') Tree Protection	70	LF
550	6003	CHAIN LINK FENCE REMOVE	70	LF
552	6003	WIRE FENCE (TY C)	225	LF
560	6004	MAILBOX INSTALLS (TWG-POST) TY 2	4	EA
560		MAILBOX INSTALL (BRICK)	3	EA
636	6002	ALUMINUM SIGNS (TY G)	252	SF
644	6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	18	EA
644	6076	REMOVE SM RD SN SUP & AM	5	EA
658	6008	INSTL DEL ASSM (D-SW)SZ 1(FLX)GF2(BI)	6	EA
666	6287	REF PROF PAV MRK TY I (Y) 4" (SLD) (090MIL)	1960	LF
666	6283	REF PROF PAV MRK TY I (W) 4" (SLD) (090MIL)	1664	LF
672	6009	REFL PAV MRKR TY II-A-A	125	EA
740	6005	ANTI-GRAFFITI COATING (PERMANENT - TY III)	3684	SF
999		EROSION CONTROL MAINTENANCE	1	LS
5971		48" DIA MANHOLE	1	EA

DESIGN	DATE	FILE	NUMBER	SHEET
CITY OF LUCAS, TEXAS				3
BLONDY JHUNE ROAD BRIDGES				
QUANTITY SUMMARY				
 M METROPOLITAN INFRASTRUCTURE, PLLC <small>10945 ESTATE LN, STE E225, DALLAS, TX, 75238 TEL # 214 341-1501, FAX # 214 341-1640 FIRM REGISTRATION NO. 9838</small>				



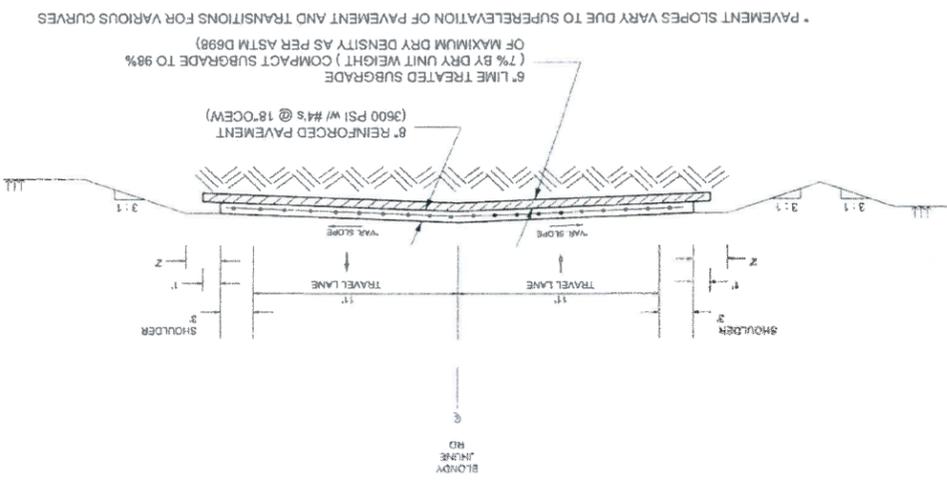
4									
DESIGN	DATE	FILE	NUMBER	SHEET					
CITY OF LUCAS, TEXAS									
BLONDY JHUNE ROAD BRIDGES									
FOR ROADWAY AND TRANSITIONS									
TYPICAL ROADWAY SECTIONS									
M METROPOLITAN INFRASTRUCTURE, PLLC 10945 ESTATE LN, STE E225, DALLAS, TX, 75238 TEL: (214) 241-1501, FAX: (214) 241-1500 PDA REGISTRATION NO. 6800									



WEST BRIDGE SECTION
 FROM STA 21+44.30 TO 23+23.70
 FROM STA 24+08.70 TO 25+08.88

EAST BRIDGE SECTION
 FROM STA 66+56.88 TO 68+51.24
 FROM STA 69+91.84 TO 70+70.01

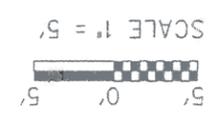
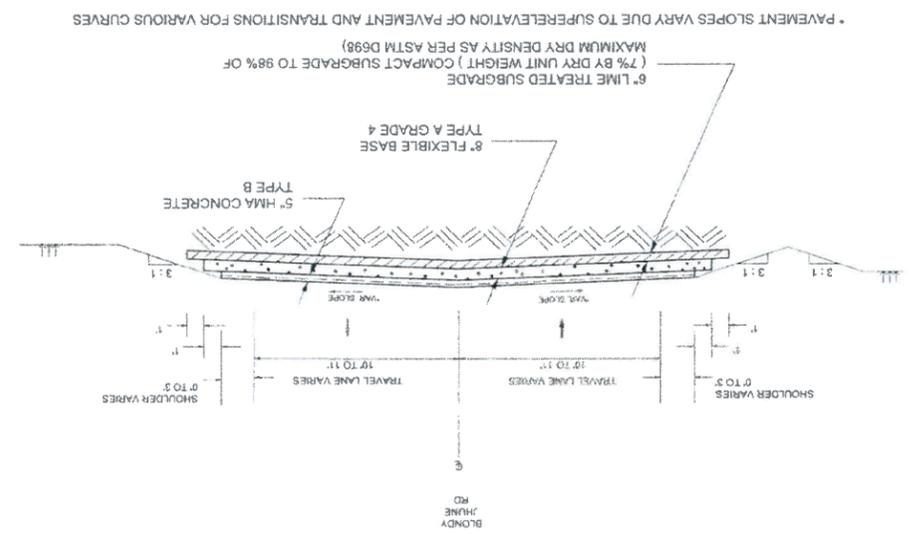
PROPOSED ROADWAY TYPICAL SECTION



WEST BRIDGE SECTION
 FROM STA 20+44.30 TO 21+44.30
 FROM STA 25+08.88 TO 26+08.88

EAST BRIDGE SECTION
 FROM STA 65+56.88 TO 66+56.88
 FROM STA 70+70.01 TO 71+70.01

ASPHALT PAVEMENT TRANSITION TO EXISTING PAVEMENT TYPICAL SECTION

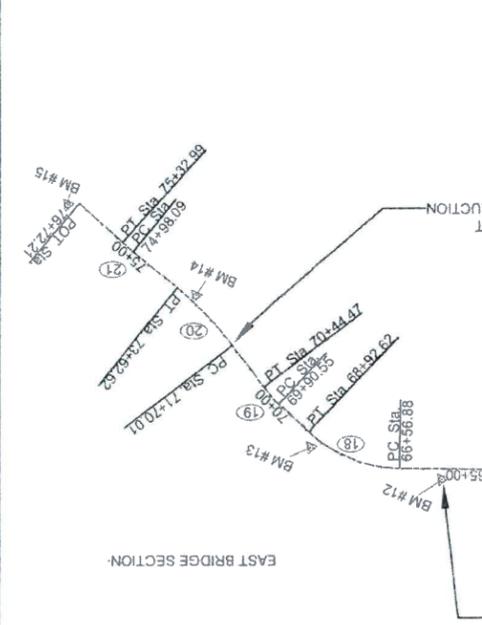




Engineering Units: All units in feet and inches unless otherwise noted.

Station	Description	Elev.
2	7091488.581	862.38
3	7091704.543	866.87
4	7091715.985	864.88
5	7091781.952	858.75
6	7092160.953	873.27
7	70922068.999	873.92
8	7092672.784	874.04
9	7092679.864	875.02
10	7092734.244	878.45
11	7093005.569	878.79
12	7093289.981	878.13
13	7093338.960	878.68
14	7093106.128	878.36
15	7093023.469	878.54

BENCHMARKS
CURVES



BEGIN CONSTRUCTION
END CONSTRUCTION
EAST BRIDGE SECTION

STA 65+58.88
STA 71+70.01
STA 71+70.01

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

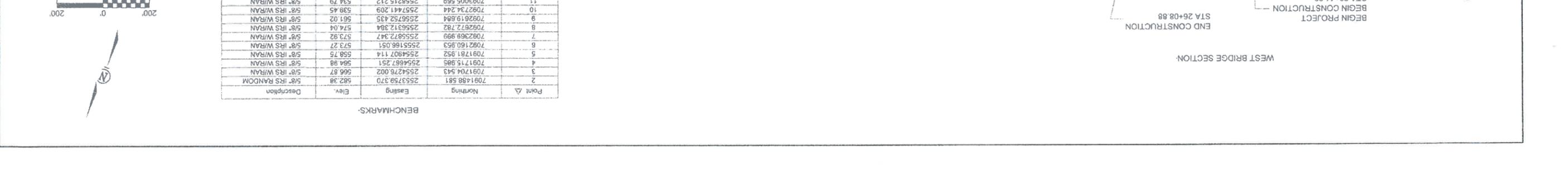
PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09

PT. STA. 63+36.09
PT. STA. 63+36.09
PT. STA. 63+36.09



Point	North	East	Elev.	Description
2	7091488.581	862.38		5/8" I.R.S. RANDOM
3	7091704.543	866.87		5/8" I.R.S. W/R/M
4	7091715.985	864.88		5/8" I.R.S. W/R/M
5	7091781.952	858.75		5/8" I.R.S. W/R/M
6	7092160.953	873.27		5/8" I.R.S. W/R/M
7	70922068.999	873.92		5/8" I.R.S. W/R/M
8	7092672.784	874.04		5/8" I.R.S. W/R/M
9	7092679.864	875.02		5/8" I.R.S. W/R/M
10	7092734.244	878.45		5/8" I.R.S. W/R/M
11	7093005.569	878.79		5/8" I.R.S. W/R/M
12	7093289.981	878.13		5/8" I.R.S. W/R/M
13	7093338.960	878.68		5/8" I.R.S. W/R/M
14	7093106.128	878.36		5/8" I.R.S. W/R/M
15	7093023.469	878.54		5/8" I.R.S. W/R/M



BEGIN CONSTRUCTION
END CONSTRUCTION
WEST BRIDGE SECTION

STA 20+44.30
STA 26+08.88

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

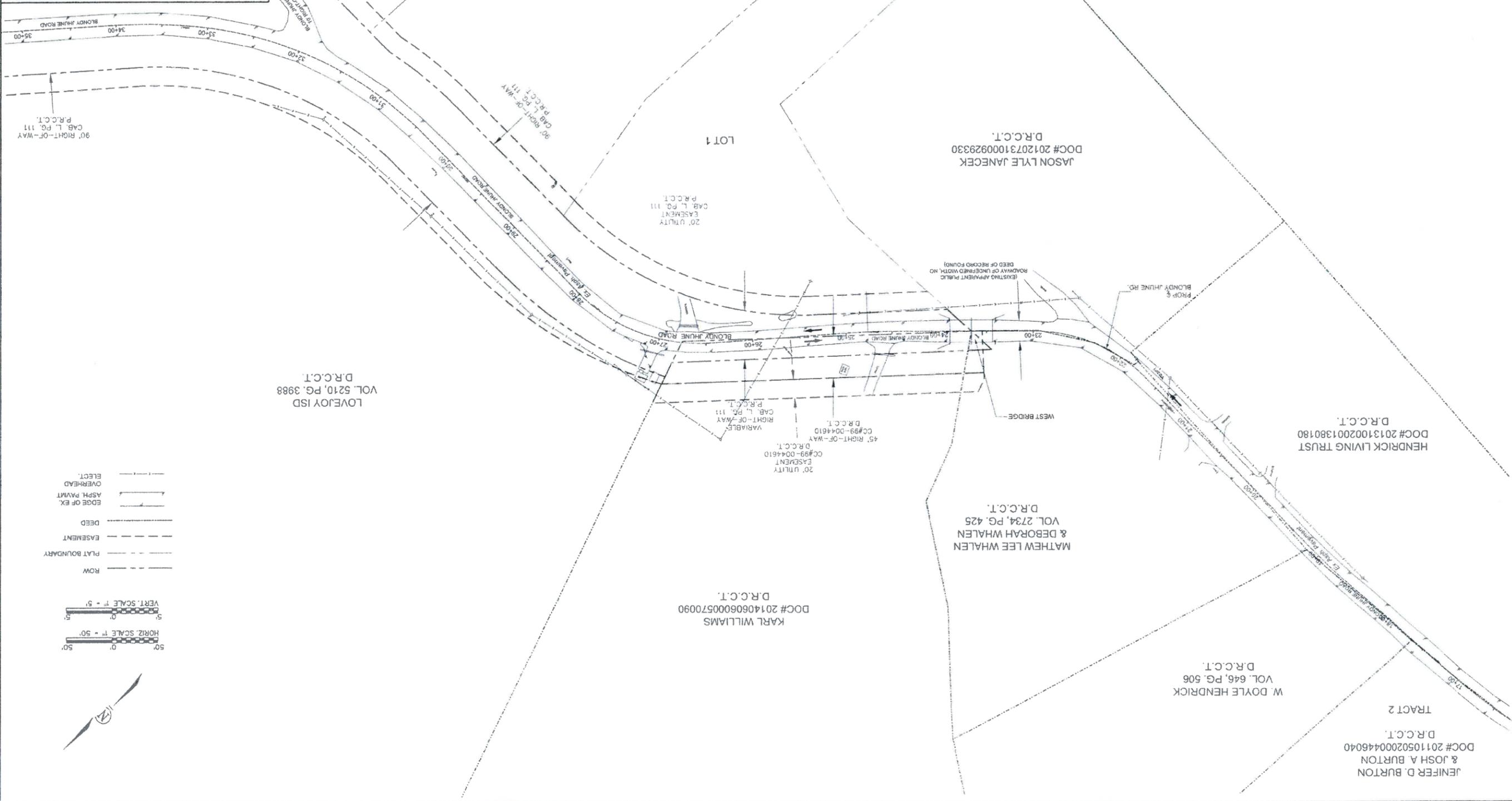
PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20

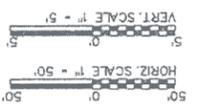
PT. STA. 21+53.20
PT. STA. 21+53.20
PT. STA. 21+53.20



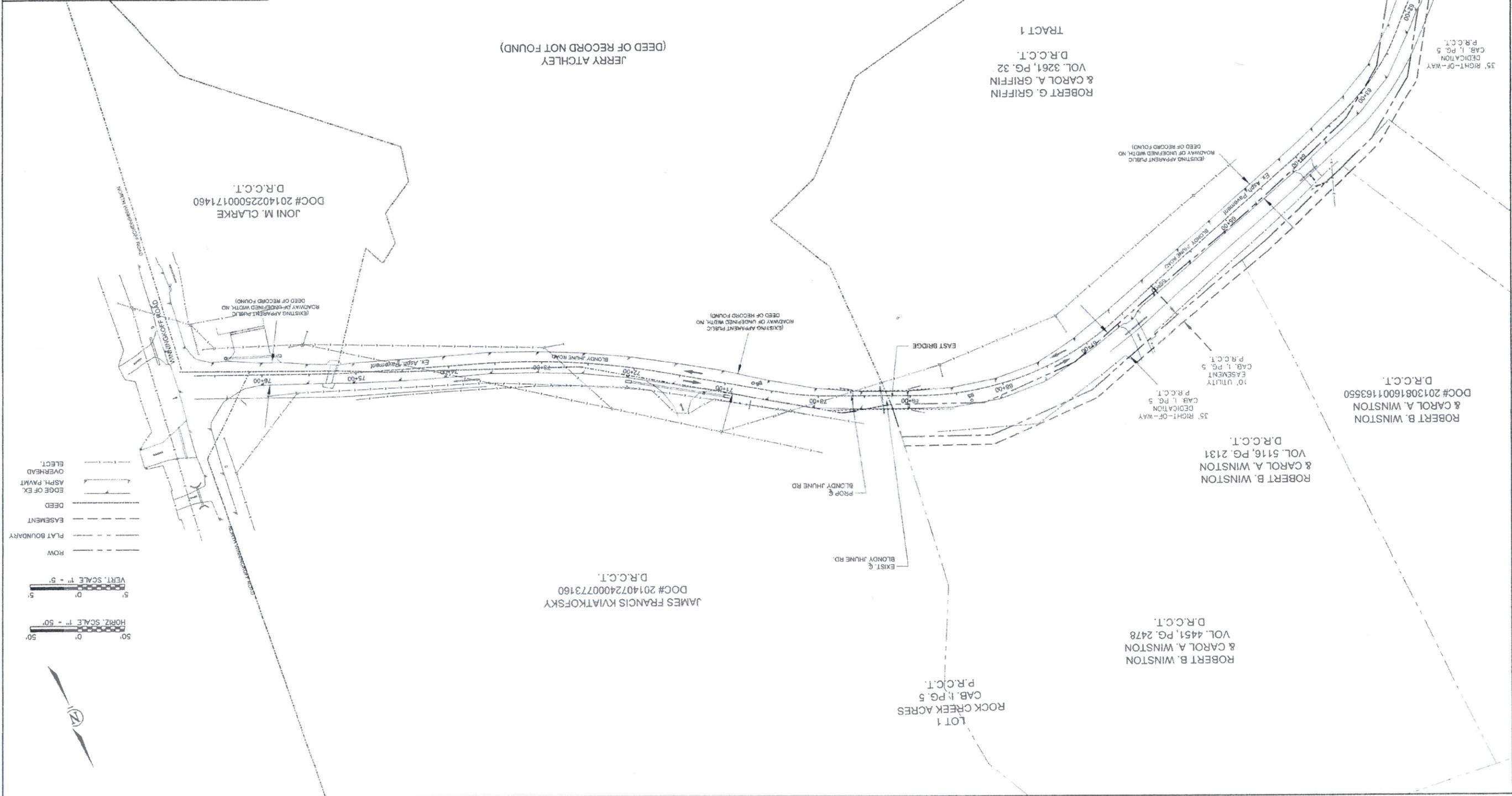
6	SHEET
DESIGN NUMBER	FILE
DATE	FILE
DRAWN	DATE
JVA	DATE
DATE	DATE
MI METROPOLITAN INFRASTRUCTURE, PLLC 10945 ESTATE LN, STE E225, DALLAS, TX 75228 TEL # (214) 341-1591, FAX # (214) 341-1600 P&ID REGISTRATION NO. 69338	
RIGHT-OF-WAY BLONDY JHUNE ROAD WEST BRIDGE APPROACH BLONDY JHUNE ROAD BRIDGES CITY OF LUCAS, TEXAS	



- PLAT BOUNDARY
- EASEMENT
- DEED
- EDGE OF EX. ASPH. PAVMT
- OVERHEAD ELECT.



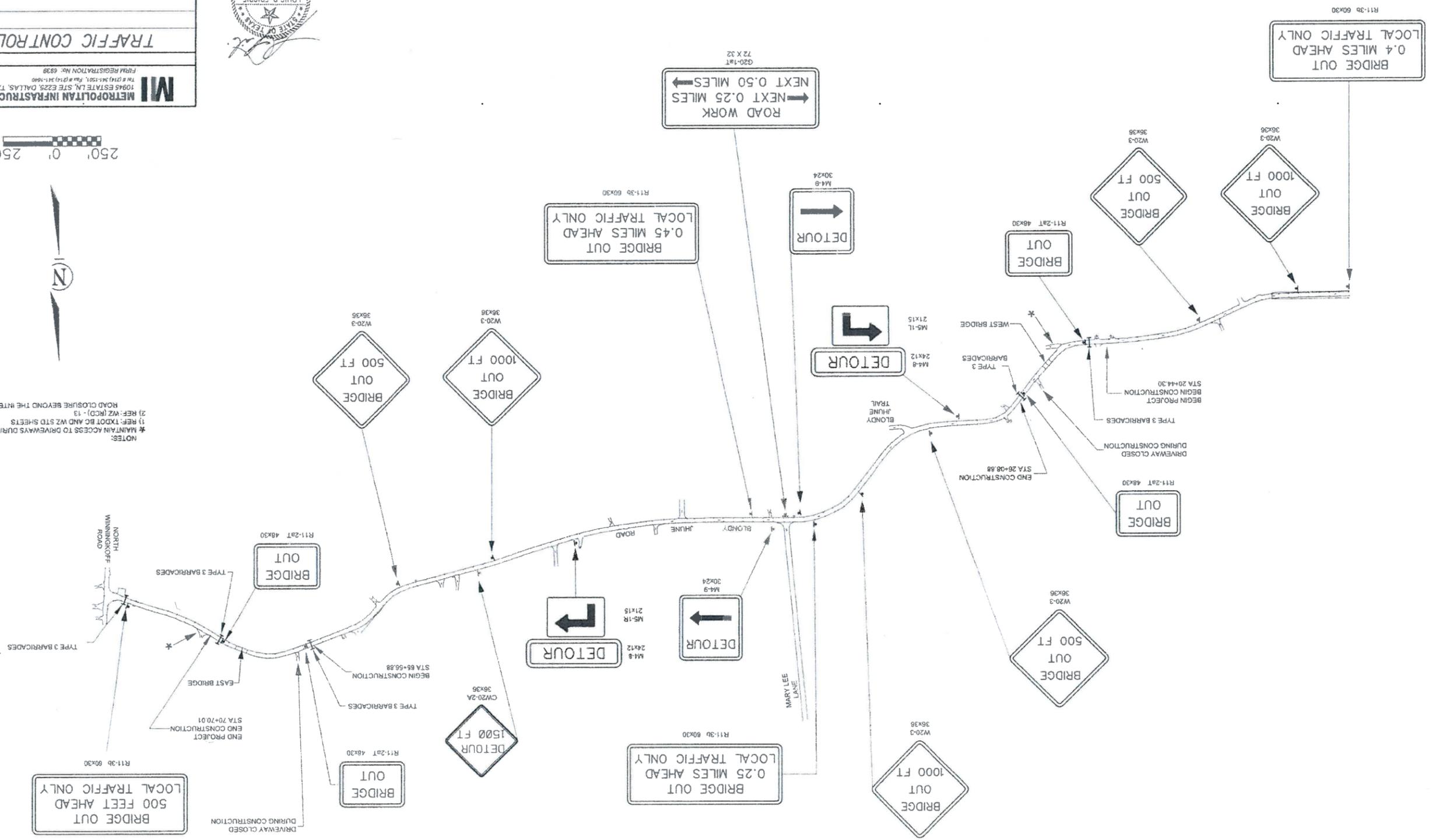
7					
SHEET	NUMBER	FILE	DATE	DESIGN	DATE
RIGHT-OF-WAY BLONDY JHUNE ROAD EAST BRIDGE APPROACH BLONDY JHUNE ROAD BRIDGES CITY OF LUCAS, TEXAS					
MI METROPOLITAN INFRASTRUCTURE, PLLC <small>10945 ESTATE LN. STE 2225, DALLAS, TX, 75228 (214) 341-1551, Fax: (214) 341-1540 P&H REGISTRATION NO.: 6939</small>					



8					
SHEET	NUMBER	FILE	DATE	DRAWN	DATE
DESIGN					
CITY OF LUCAS, TEXAS					
BLONDY JHUNE ROAD BRIDGES					
TRAFFIC CONTROL PLAN					
M METROPOLITAN INFRASTRUCTURE, PLLC FIRM REGISTRATION NO. 6939 10945 ESTATE LN., STE E225, DALLAS, TX, 75238 TEL # (214) 341-1501, FAX # (214) 341-1660					



NOTES:
 * MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION
 1) REF: TXDOT EC AND WZ STD SHEETS
 2) REF: WZ (RCD) - 13
 ROAD CLOSURE BEYOND THE INTERSECTION

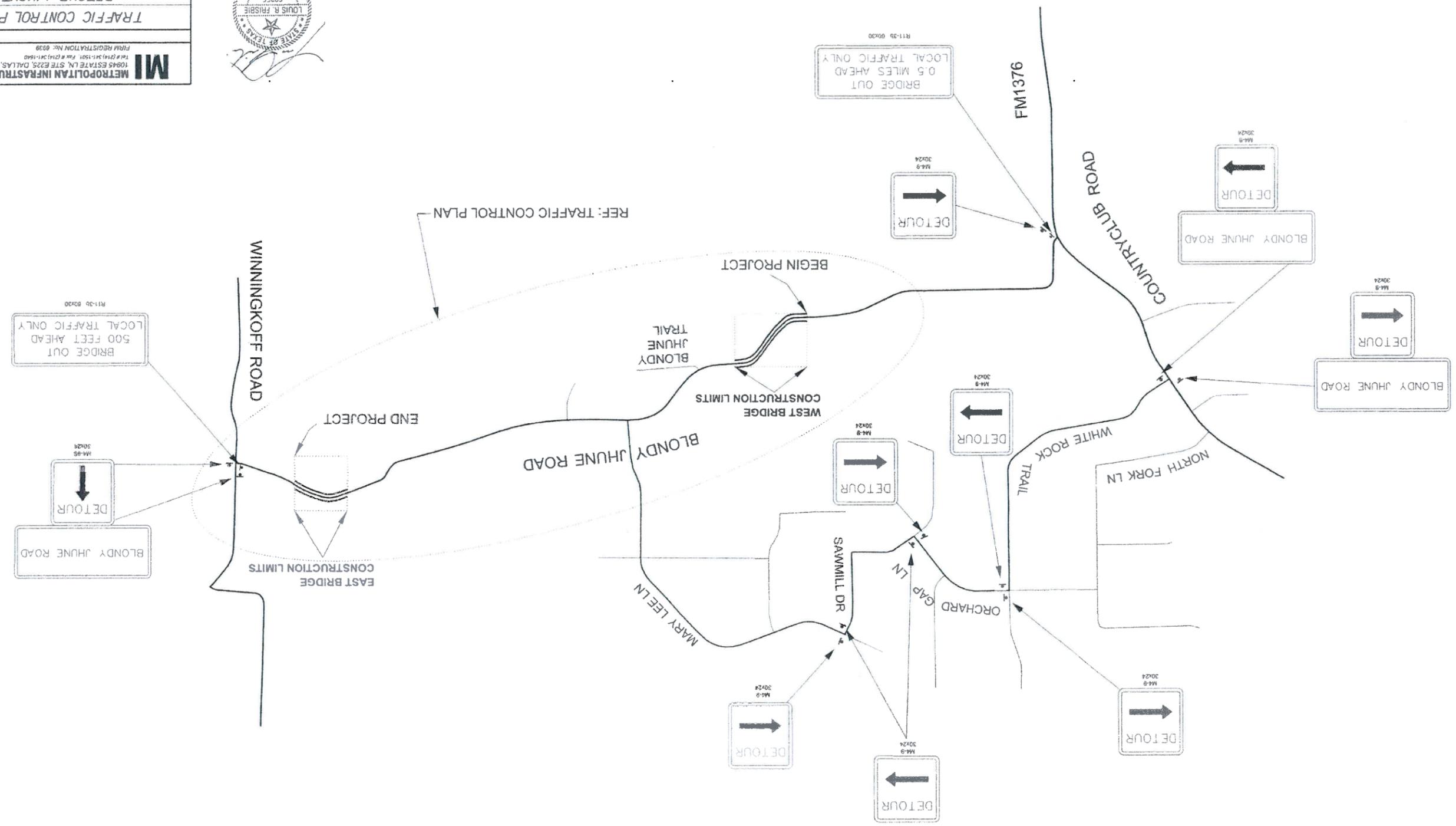


FRM REGISTRATION NO. 6939
 10945 ESTATE LN., STE E225, DALLAS, TX, 75238
 TEL # (214) 341-1501, FAX # (214) 341-1660

9									
SHEET	NUMBER	FILE	DATE	DRAWN	DATE	AP	DATE	UR	
MI METROPOLITAN INFRASTRUCTURE, PLLC 10645 ESTATE LN, STE E225, DALLAS, TX 75228 FIRM REGISTRATION NO. 0330									
TRAFFIC CONTROL PLAN DETOUR LAYOUT BLONDY JHUNE ROAD BRIDGES CITY OF LUCAS, TEXAS									



DETOUR LAYOUT



REF: TRAFFIC CONTROL PLAN

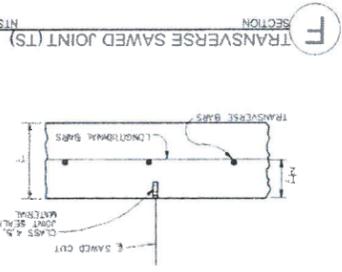
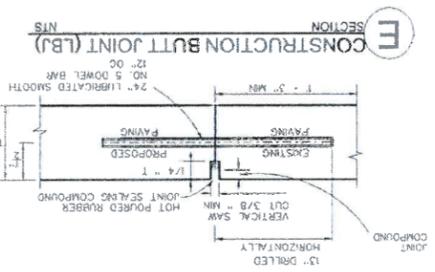
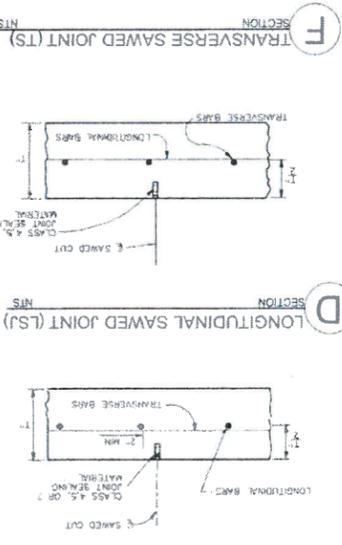
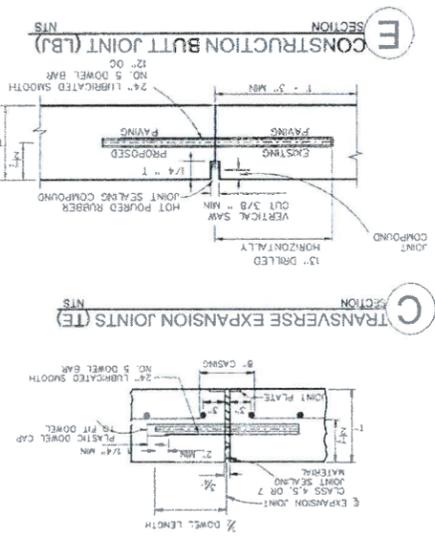
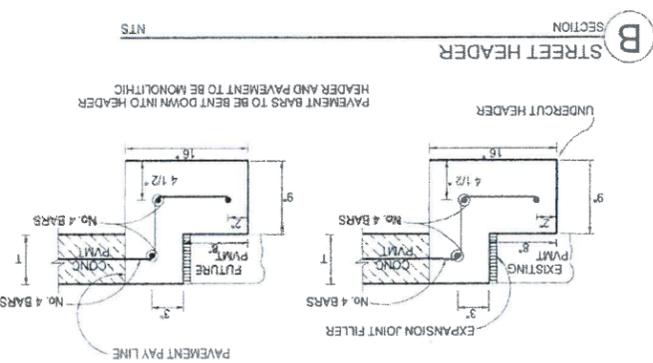
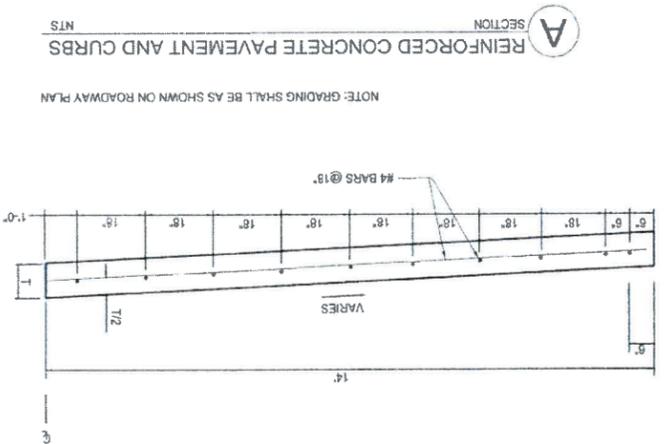
12	SHEET	NUMBER	FILE	DATE	DRWN	DATE	AP	WT 21	ZOR
CITY OF LUCAS, TEXAS									
BLONDY JHUNE ROAD BRIDGES									
PAVING DETAILS									
MI METROPOLITAN INFRASTRUCTURE, PLLC FIRM REGISTRATION NO. 6939 10945 ESTATE LN, STE E225, DALLAS, TX 75238 TEL (214) 241-1501, FAX (214) 241-1560									



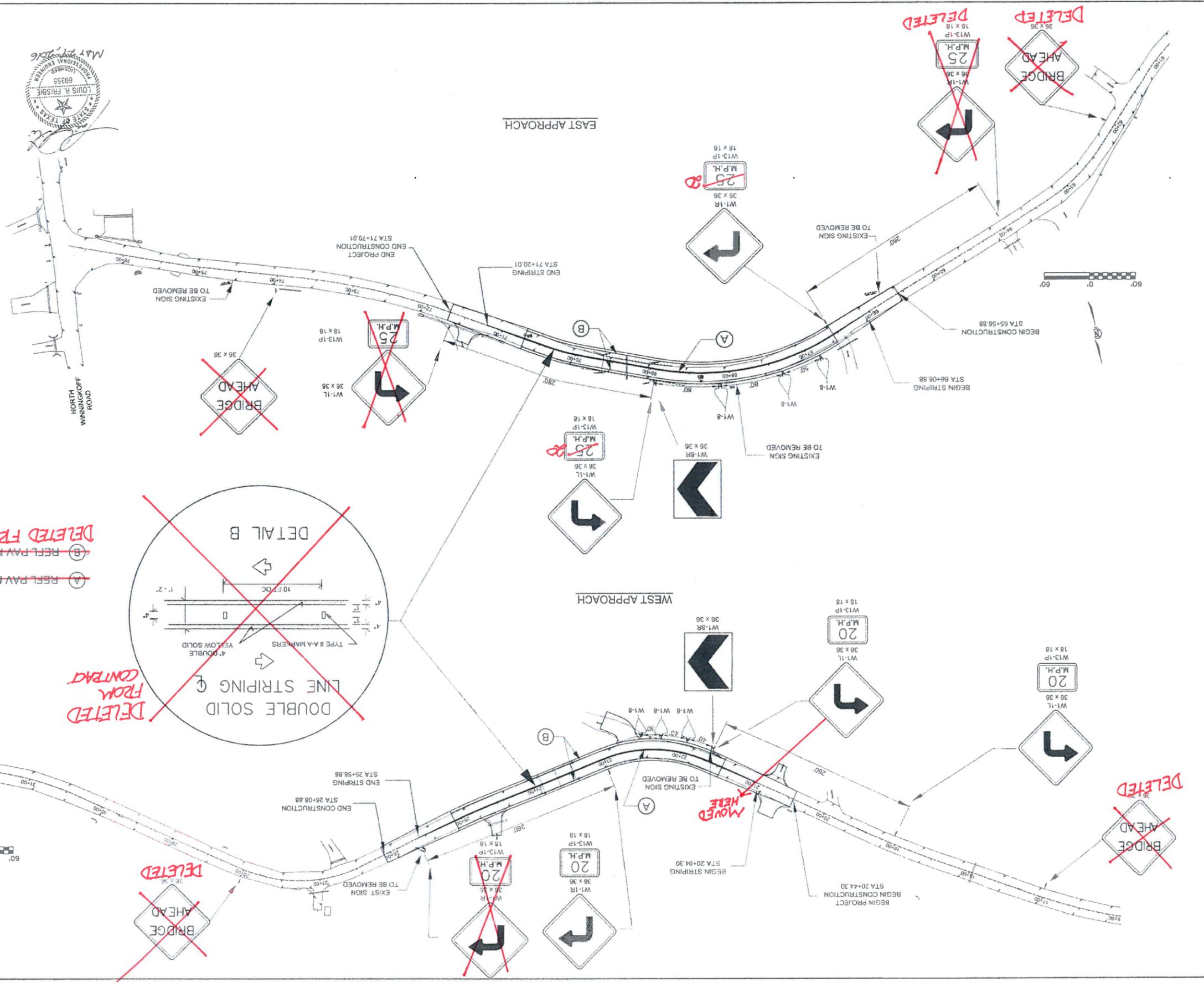
1. ALL SUBGRADE COMPACTION UNDER PAVEMENT SHALL BE 98% STANDARD PROCTOR DENSITY AT +2% OF OPTIMUM MOISTURE.
2. THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE AS INDICATED ON THE PLANS AND ON THE SPECIFICATIONS.
3. BARS SHALL BE GRADE 60 KSI DEFORMED REINFORCING BARS. SIZES AND SPACING SHALL BE AS INDICATED HEREIN.
4. ALL CURB AND GUTTER SHALL BE INTEGRAL WITH PAVEMENT.
5. DETAIL AND ARRANGEMENT OF JOINTS, ALL TYPES, SHALL BE AS SHOWN.
6. BAR LAPS SHALL BE 30 DIAMETERS.
7. SIX INCHES OF LIME STABILIZED SUBGRADE REQUIRED WHEN THE SOIL P.I. IS GREATER THAN 15 FOR LOCAL STREETS, UNLESS OTHERWISE INDICATED BY GEOTECHNICAL INVESTIGATIONS.

GENERAL NOTES

1=	PAVEMENT TYPE
8"	ROADWAY PAVEMENT



13	SHEET	NUMBER	FILE	DATE	DRAWN	DESIGN	CM	APP'D
CITY OF LUCAS, TEXAS								
BLONDY JHUNE ROAD BRIDGES								
SIGNING AND STRIPING PLAN								
MI METROPOLITAN INFRASTRUCTURE, PLLC 10945 ESTATE LN, STE E225, DALLAS, TX, 75238 TEXAS REGISTRATION NO. 6939								



~~REFLECTOR MARK (X) (SOLID) @ 10' SPACING~~
~~REFLECTOR MARK (W) (SOLID) @ 11' OFFSET FROM CL~~
 DELETED FROM CONTRACT

DELETED FROM CONTRACT
 DELETED

MOVED HERE

DELETED
 DELETED
 BRIDGE AHEAD

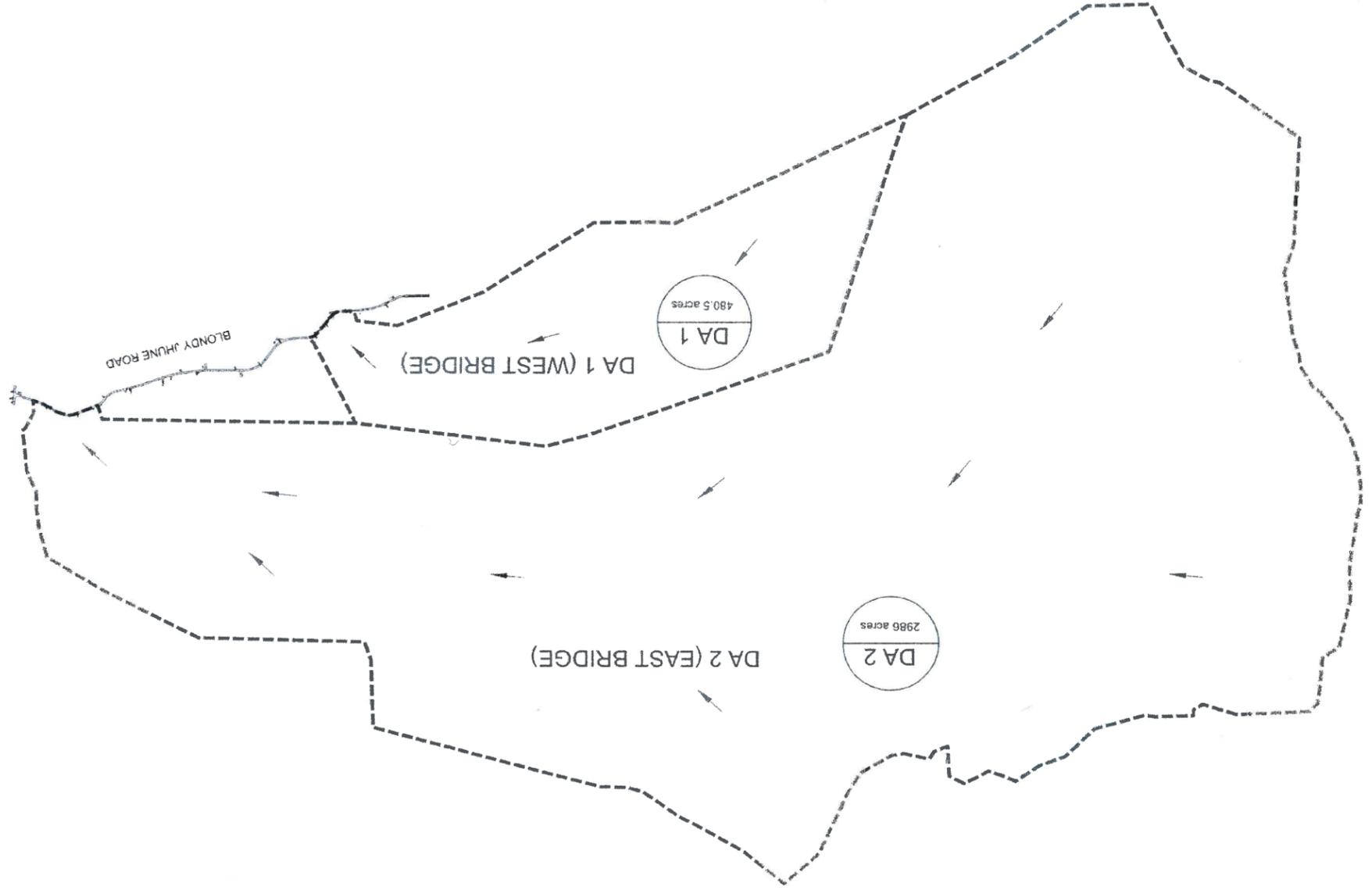
DELETED
 DELETED
 BRIDGE AHEAD

14					
SHEET	NUMBER	FILE	DATE	DRAWN	DESIGN
CITY OF LUCAS, TEXAS					
BLONDY JHUNE ROAD BRIDGES					
DRAINAGE AREA MAP					
WEST AND EAST BRIDGES					
M I METROPOLITAN INFRASTRUCTURE, PLLC					
FROM REGISTRATION NO. 6939					
10945 ESTATE LN, STE 5225, DALLAS, TX, 75238					
TEL: 972-412-1150, FAX: 972-412-1149					
2016	APR	MAR 27			



BASED ON LIMIT HYDROGRAPH ANALYSIS

BRIDGES	AREA (acres)	480.5	2986
DA 1	WEST BRIDGE	480.5	2872
DA 2	EAST BRIDGE	2986	4387



DESIGN	DATE	FILE	NUMBER	SHEET
BRIDGE LAYOUT				15
WEST BRIDGE				
BLONDY JHUNE ROAD BRIDGES				
CITY OF LUCAS, TEXAS				

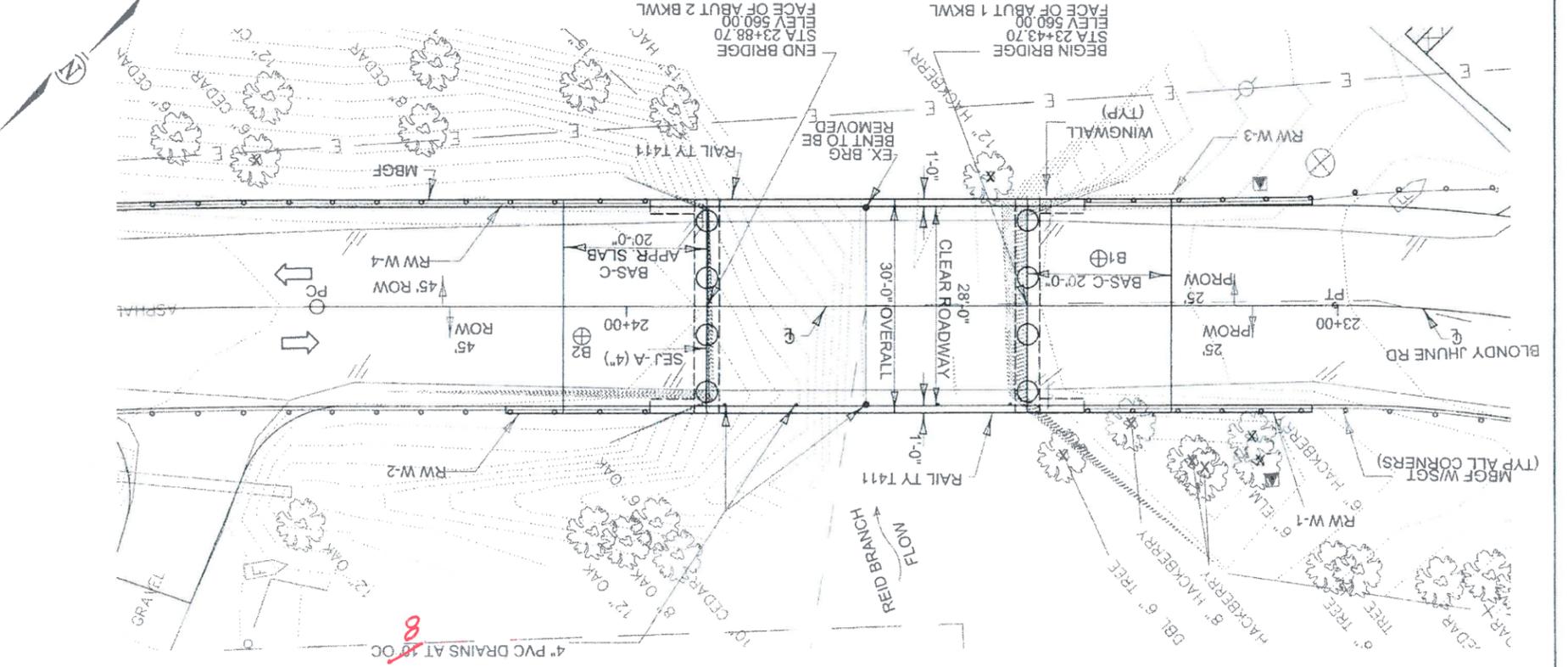
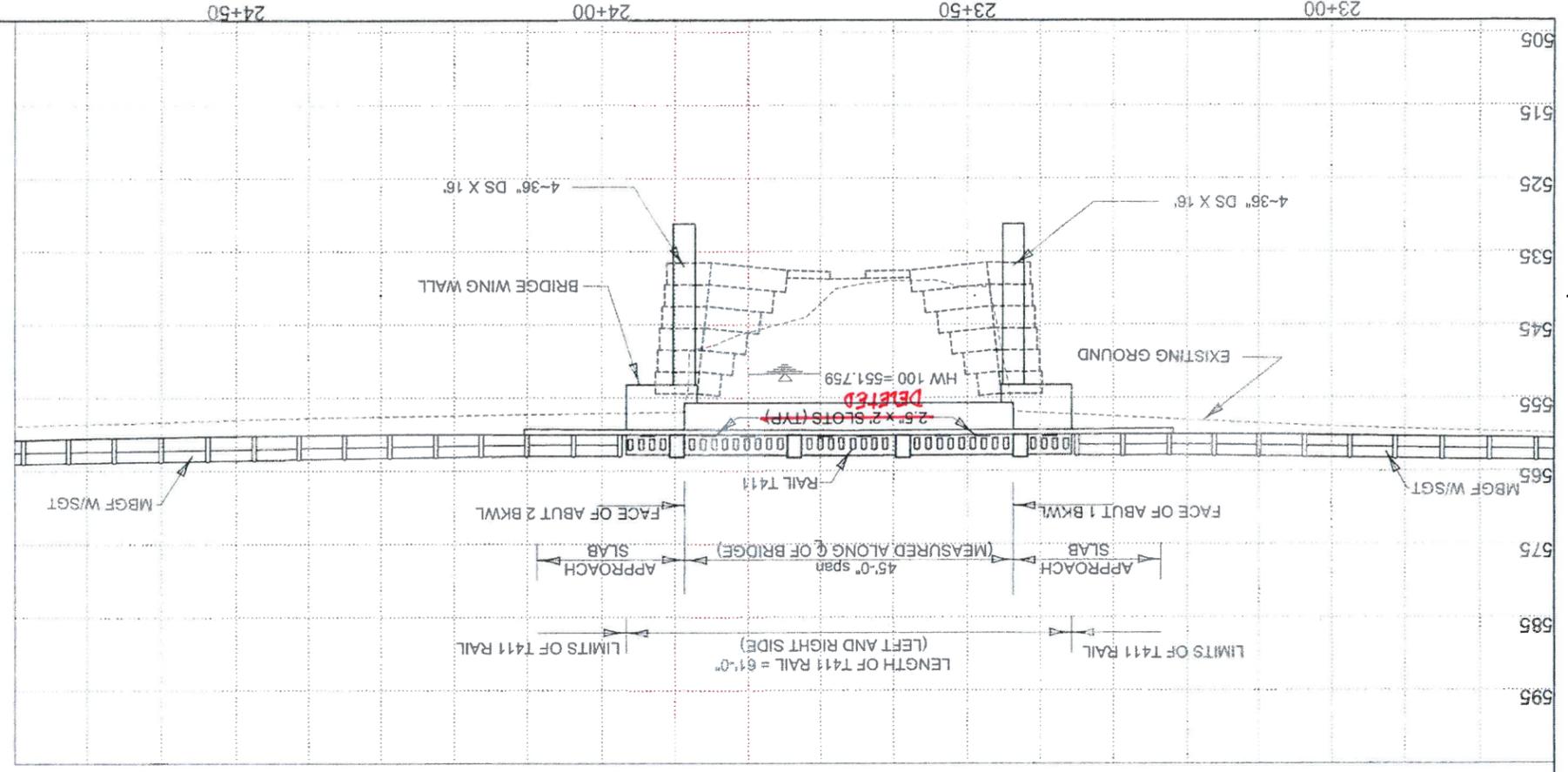
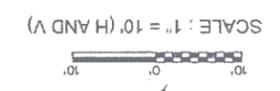
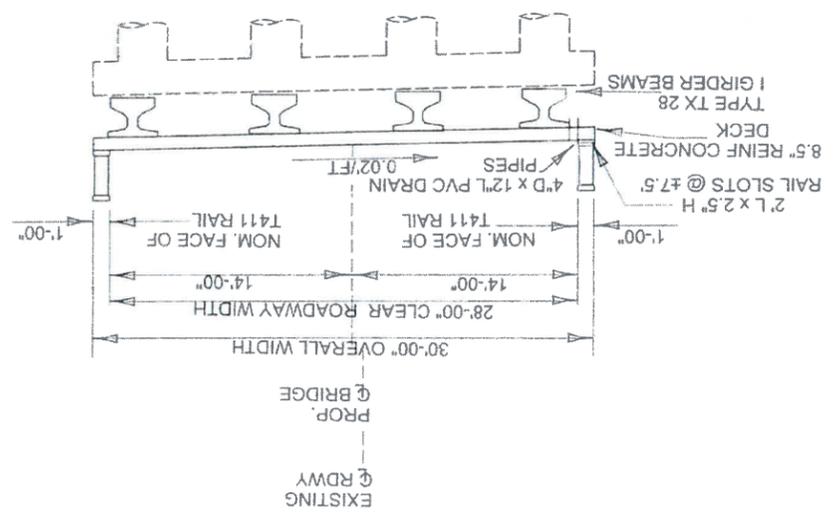
EVI REPORT # MI 153492 JUNE 2015.

FOUNDATION NOTES:
 (1) DRILLED SHAFTS ARE DESIGNED FOR A LOAD OF 72 TONS EACH.
 (2) ALL DRILLED SHAFTS AT ABUTMENTS ARE DESIGNED FOR POINT BEARING.
 (3) DRILLED SHAFTS SHALL BE FOUNDED AT THE ELEVATION SHOWN OR DEEPER AS NECESSARY TO PENETRATE GREY LIMESTONE A MINIMUM DIMENSION OF 5 FT.
 (4) FOR GEOTECHNICAL INFORMATION, REFER TO EMI REPORT # MI 153492 JUNE 2015.

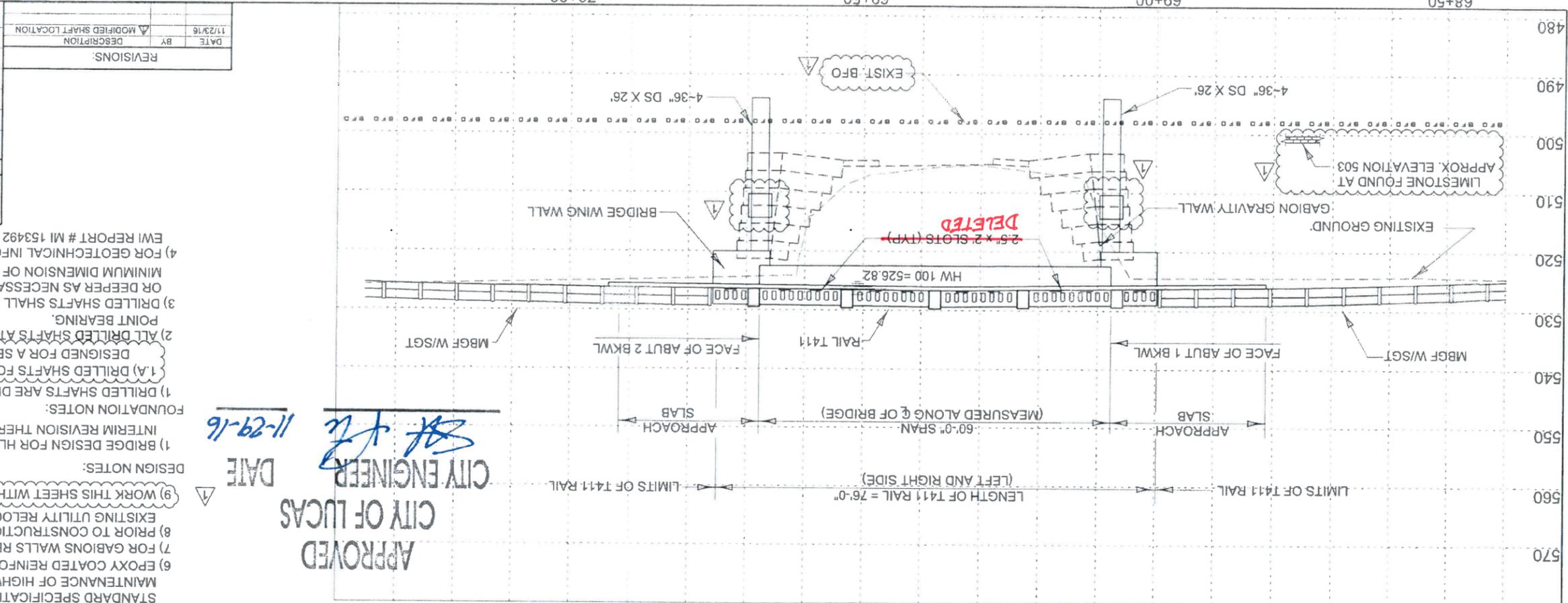
DESIGN NOTES:
 (1) BRIDGE DESIGN FOR HL 93 LOADING UNDER AASHTO SPEC. AND INTERIM REVISION THERETO.

GENERAL NOTES:
 (1) EXISTING BRIDGE, ABUTMENTS, WING WALLS, COLUMNS AND RIP-RAP TO BE DEMOLISHED AND REMOVED.
 (2) EXISTING PIERS TO BE CUT 3 FT BELOW GROUND LINE.
 (3) FOR HORIZONTAL ALIGNMENT DATA SEE PROJECT LAYOUT SHEET.
 (4) PLACE 4" DIA DRAIN PIPES AS SHOWN ON STD IBMS AT 8' SPACING MAXIMUM.
 (5) BRIDGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES, 2014 ED.
 (6) EPOXY COATED REINFORCEMENT BARS ARE NOT REQUIRED.
 (7) FOR GABIONS WALLS REF. TO GABION PLANS AND DETAIL SHEETS.
 (8) PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATIONS TO AVOID ANY CONFLICTS WITH WALLS.

X TREE TO BE REMOVED.



NOV 23 2016	DESIGN	DATE	FILE	NUMBER	SHEET
NOV 23 2016	NOV 23 2016	NOV 23 2016	NOV 23 2016	NOV 23 2016	NOV 23 2016
MI METROPOLITAN INFRASTRUCTURE, PLLC 8601 WHITE ROCK TRS STE 204, DALLAS TX 75228 TEL # (214) 341-1501, FAX # (214) 341-1540 FIRM REGISTRATION NO. 8839					
BRIDGE LAYOUT EAST BRIDGE 15.5 SKEW BLONDY JHUNE ROAD BRIDGES CITY OF LUCAS, TEXAS					

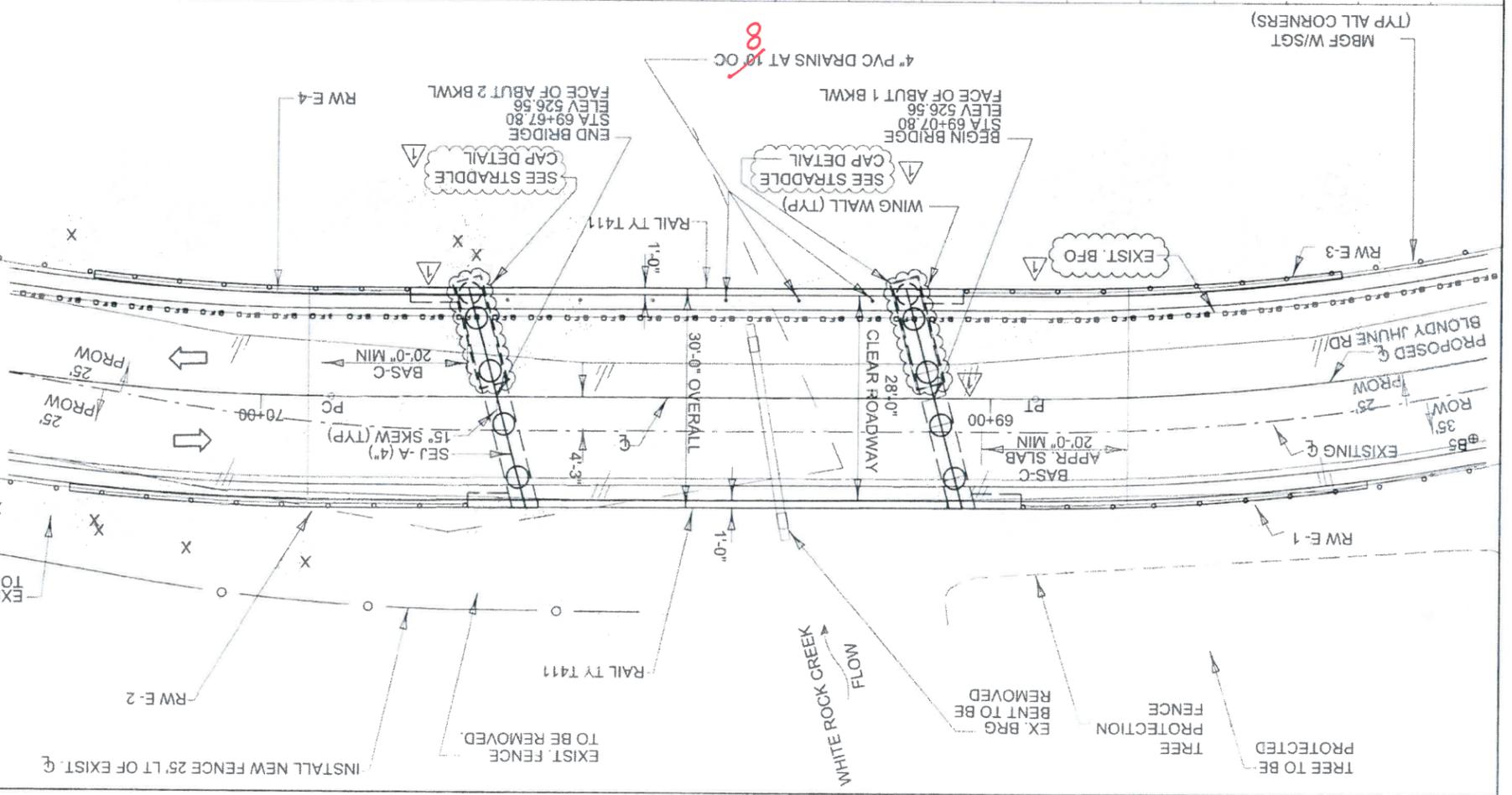
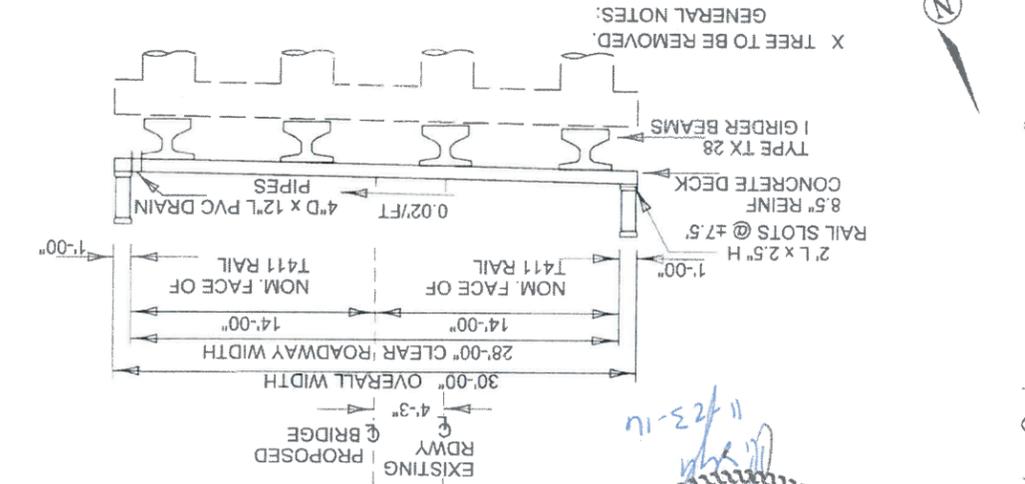


FOUNDATION NOTES:
 (1) DRILLED SHAFTS ARE DESIGNED FOR A LOAD OF 64 TONS EACH.
 (1A) DRILLED SHAFTS FOR REVISION 1 (CLOUDED ON PLAN) ARE DESIGNED FOR A SERVICE LOAD OF 95 TONS EACH.
 (2) ALL DRILLED SHAFTS AT ABUTMENTS ARE DESIGNED FOR POINT BEARING.
 (3) DRILLED SHAFTS SHALL BE FOUNDED AT THE ELEVATION SHOWN OR DEEPER AS NECESSARY TO PENETRATE GREY LIMESTONE A MINIMUM DIMENSION OF 5 FT.
 (4) FOR GEOTECHNICAL INFORMATION, REFER TO EMI REPORT # MI 153492 JUNE 2015.

DESIGN NOTES:
 (1) BRIDGE DESIGN FOR HL 93 LOADING UNDER AASHTO SPEC. AND INTERIM REVISION THERETO.
 (2) BRIDGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES, 2014 ED.
 (3) EPOXY COATED REINFORCEMENT BARS ARE NOT REQUIRED.
 (4) FOR GABIONS WALLS REF. TO GABION PLANS AND DETAIL SHEETS.
 (5) PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATIONS TO AVOID ANY CONFLICTS.
 (6) WORK THIS SHEET WITH ADDITIONAL SHEET NO. 16A

APPROVED
CITY OF LUCAS
CITY ENGINEER
[Signature]
DATE 11-29-16

GENERAL NOTES:
 (1) EXISTING BRIDGE, ABUTMENTS, WING WALLS, COLUMNS AND RIP-RAP TO BE DEMOLISHED AND REMOVED.
 (2) EXISTING PIERS TO BE CUT 3 FT BELOW GROUND LINE.
 (3) FOR HORIZONTAL ALIGNMENT DATA SEE PROJECT LAYOUT SHEET.
 (4) PLACE 4" DIA DRAIN PIPES AS SHOWN ON STD IBMS AT 10' SPACING MAXIMUM.
 (5) BRIDGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES, 2014 ED.
 (6) EPOXY COATED REINFORCEMENT BARS ARE NOT REQUIRED.
 (7) FOR GABIONS WALLS REF. TO GABION PLANS AND DETAIL SHEETS.
 (8) PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATIONS TO AVOID ANY CONFLICTS.
 (9) WORK THIS SHEET WITH ADDITIONAL SHEET NO. 16A



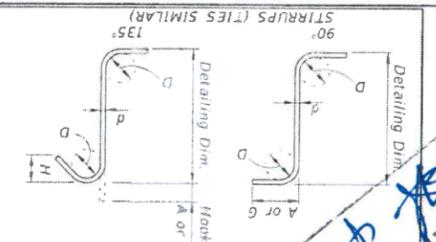
SIGNED AND SEALED FOR REVISION 1 ONLY
 LAKE ENGINEERING, INC.
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 FIRM REGISTRATION NO: F-15243
 CHRISTOPHER P. MESZLER
 P.E. LICENSE NO. 112052
 STATE OF TEXAS
 LICENSED PROFESSIONAL ENGINEER
 112052
 CHRISTOPHER P. MESZLER
 1123-16

16A	SHEET	NUMBER	FILE	DATE	DESIGN	DRAWN	DATE	NOV 23	11/23/16
CITY OF LUCAS, TEXAS									
BLONDY JHUNE ROAD BRIDGES									
15° SKEW									
EAST BRIDGE									
STRADDLE CAP DETAIL									
LAKES ENGINEERING, INC.									
1005 CENTRAL DRIVE, SUITE #405 ROCKFORD, TX 78021 FIRM REGISTRATION NO. F-15243 CHRISTOPHER P. MESZLER P.E. LICENSE NO. 112052									



DATE	DESCRIPTION	BY
11/23/16	ADDED SHEET	

REVISIONS	DATE	DESCRIPTION
5		STYLE 6 = NO HOOK
4		
3		
2		
1		



STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	A OR G	A OR G	H
#5	2 1/2"	6"	5 1/2"	3 3/4"
#4	2"	4 1/2"	4 1/2"	3"
#3	1 1/2"	4"	4"	2 1/2"

STYLE 6 = NO HOOK

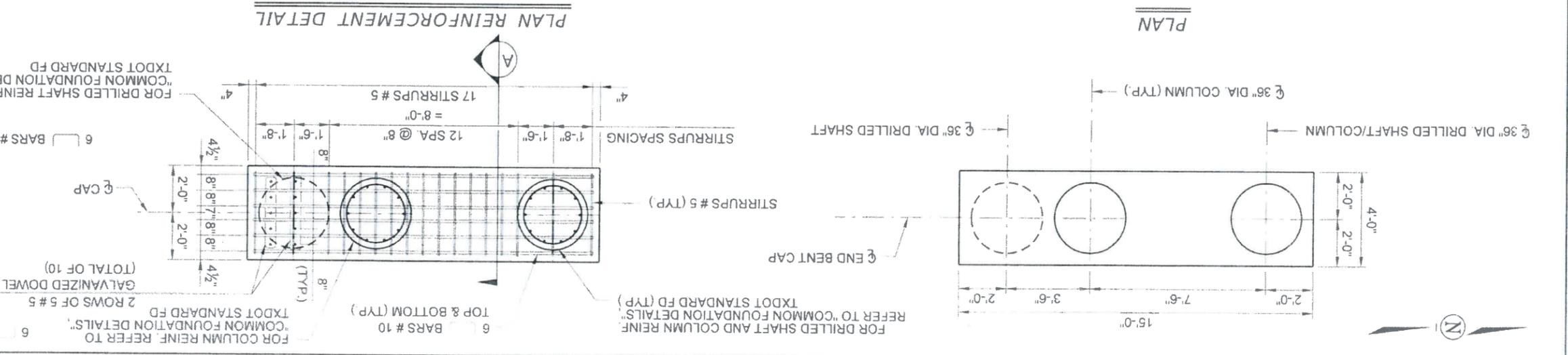
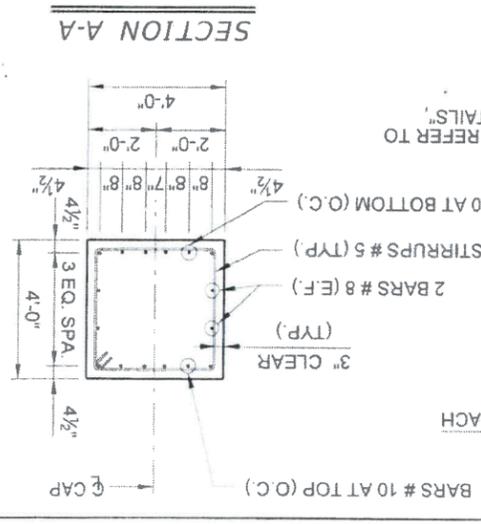
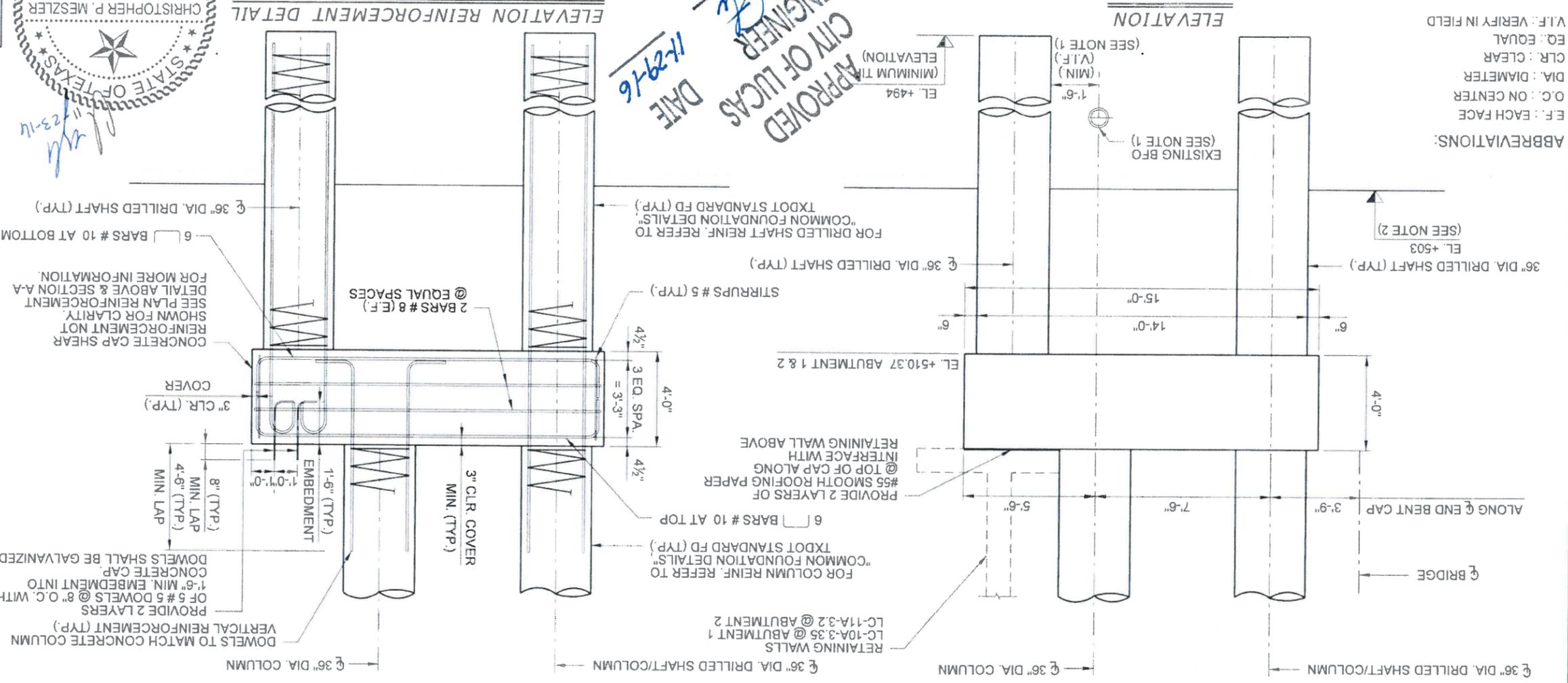
STIRRUPS (TIES SIMILAR)

SIGNED AND SEALED FOR REVISION 1 ONLY

BAR SIZE	D	A OR G	1	3"	5"	6"	8"	10"
#3	2 1/2"	A OR G	1	3"	5"	6"	8"	10"
#4	2"	A OR G	1	3"	5"	6"	8"	10"
#5	2 1/2"	A OR G	1	3"	5"	6"	8"	10"
#6	3"	A OR G	1	3"	5"	6"	8"	10"
#7	3 1/2"	A OR G	1	3"	5"	6"	8"	10"
#8	4"	A OR G	1	3"	5"	6"	8"	10"
#9	4 1/2"	A OR G	1	3"	5"	6"	8"	10"
#10	5"	A OR G	1	3"	5"	6"	8"	10"

UTILITY LOCATION NOTE:
The location of existing utilities shown on these plans are approximate and based on existing plans and data furnished by utility companies. It is the responsibility of the contractor to verify the location and depth of all existing utilities that may conflict with construction. Call 1-800-344-8377 two working days prior to construction for onsite locations. Any damage to existing utilities shall be repaired at contractor's expense, at no additional cost.

CALL BEFORE YOU DIG!
TEXAS ONE CALL PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST - STOP CALL
Texas One Call System
1-800-DIG-TESS

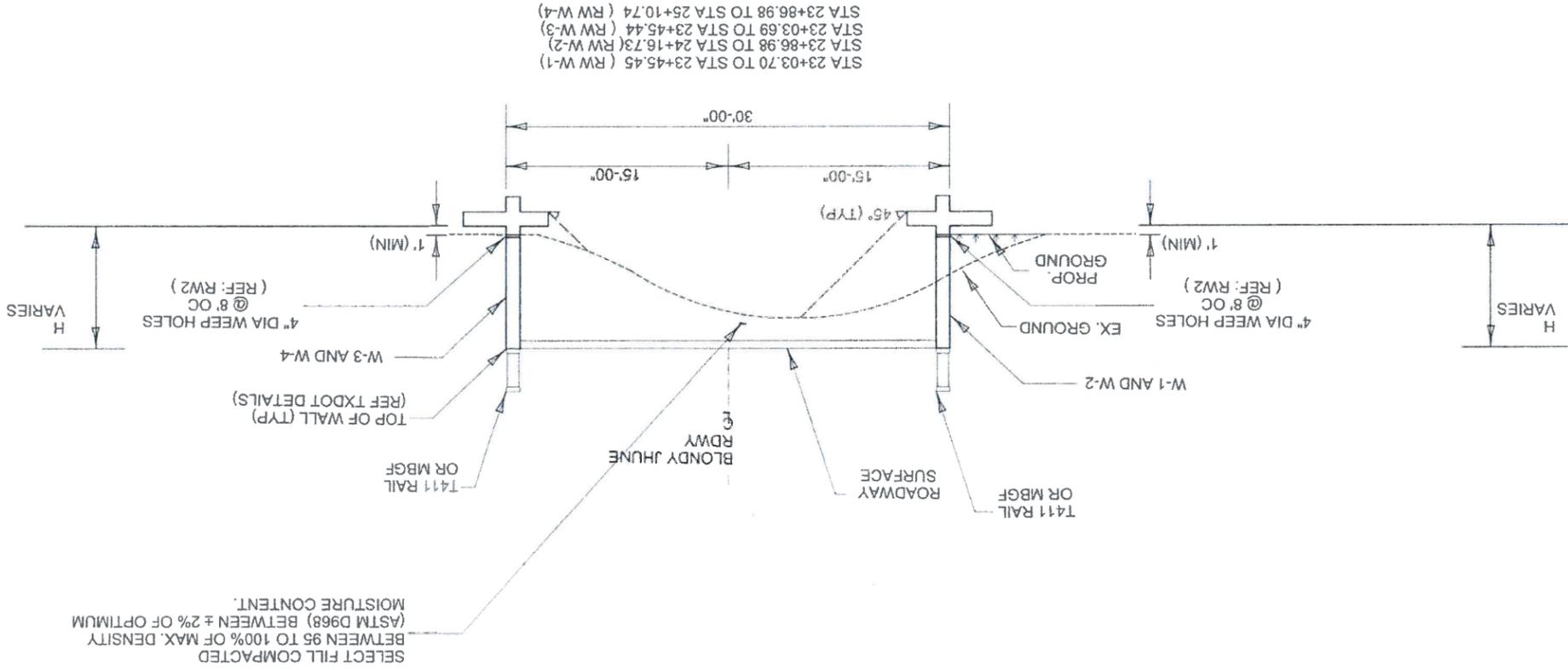


ABBREVIATIONS:
E.F.: EACH FACE
O.C.: ON CENTER
DIA.: DIAMETER
CLR.: CLEAR
EQ.: EQUAL
V.L.F.: VERIFY IN FIELD

NOTES:
(1) EXISTING LOCATION OF UTILITY BFO LINE SHALL BE VERIFIED IN FIELD.
(2) APPROXIMATE TOP ELEVATION OF LIMESTONE STRATUM. (CONTRACTOR SHALL FIELD VERIFY). DRILLED SHAFTS SHALL PENETRATE INTO THE BEARING/LIMESTONE STRATUM A MIN. OF 6'-0", AND SHALL ALWAYS MEET OR EXCEED THE MINIMUM TIP ELEV. OF +494 REGARDLESS OF THE SOIL CONDITIONS.

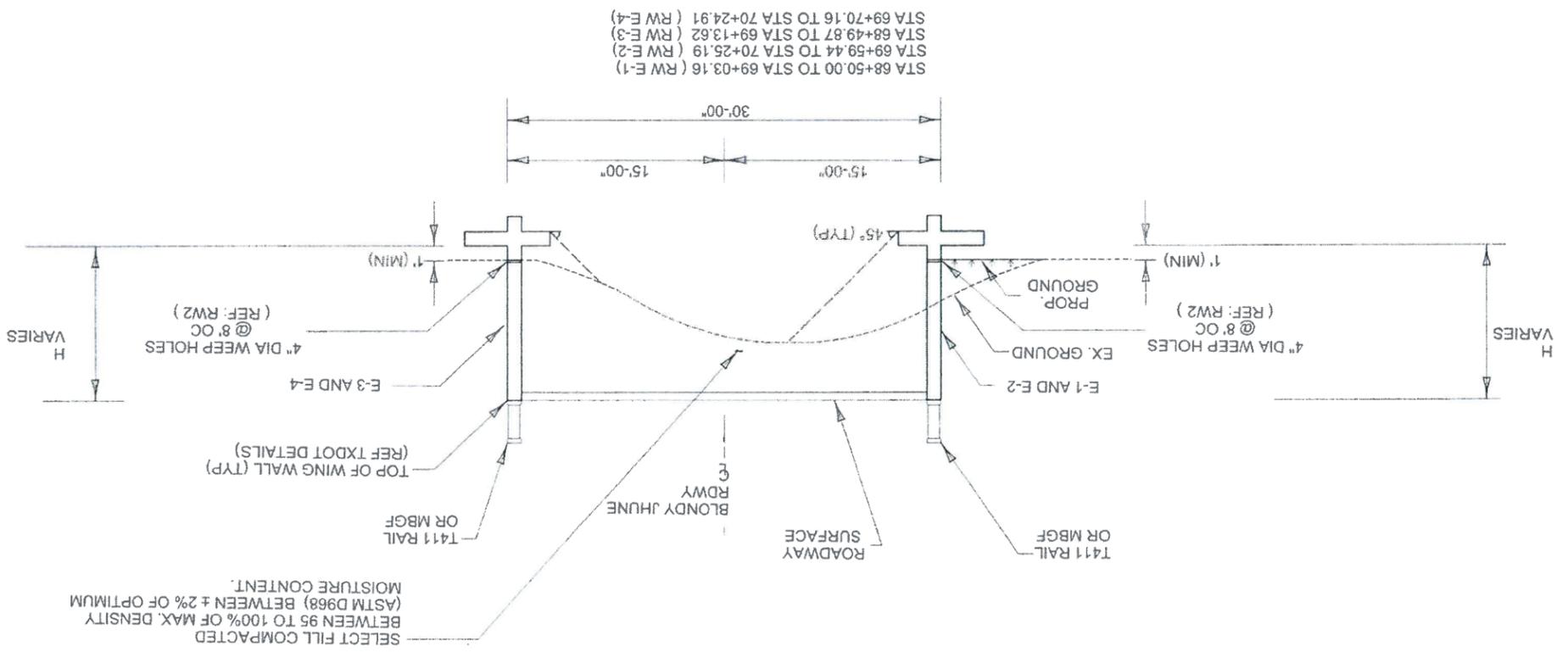
APPROVED
CITY ENGINEER
CITY OF LUCAS
DATE 11-29-16

17					
SHEET	NUMBER	FILE	DATE	DRAWN	DATE
CITY OF LUCAS, TEXAS					
BLONDY JHUNE ROAD BRIDGES					
WEST BRIDGE					
TYPICAL SECTIONS					
RETAINING WALLS					
MI METROPOLITAN INFRASTRUCTURE, PLLC <small>FIRM REGISTRATION NO. 6939 10046 ESTATE LN, STE E226, DALLAS, TX 75238 TEL # (214) 341-1501, FAX # (214) 341-1680</small>					



NOTES:
 1) FOR RETAINING WALLS, REFER TO TXDOT STD DETAIL SHEETS
 2) FOR GEOTECHNICAL INFORMATION, REFER TO EMI REPORT # MI 153492 JUNE 2015.

18					
SHEET	NUMBER	FILE	DATE	DRAWN	DESIGN
RETAINING WALLS					
TYPICAL SECTIONS					
EAST BRIDGE					
BLONDY JHUNE ROAD BRIDGES					
CITY OF LUCAS, TEXAS					
 MI METROPOLITAN INFRASTRUCTURE, PLLC 10945 ESTATE LN, STE E226, DALLAS, TX 75238 TEL: (214) 341-1501, FAX: (214) 341-1600 P.E. REGISTRATION NO.: 6939					



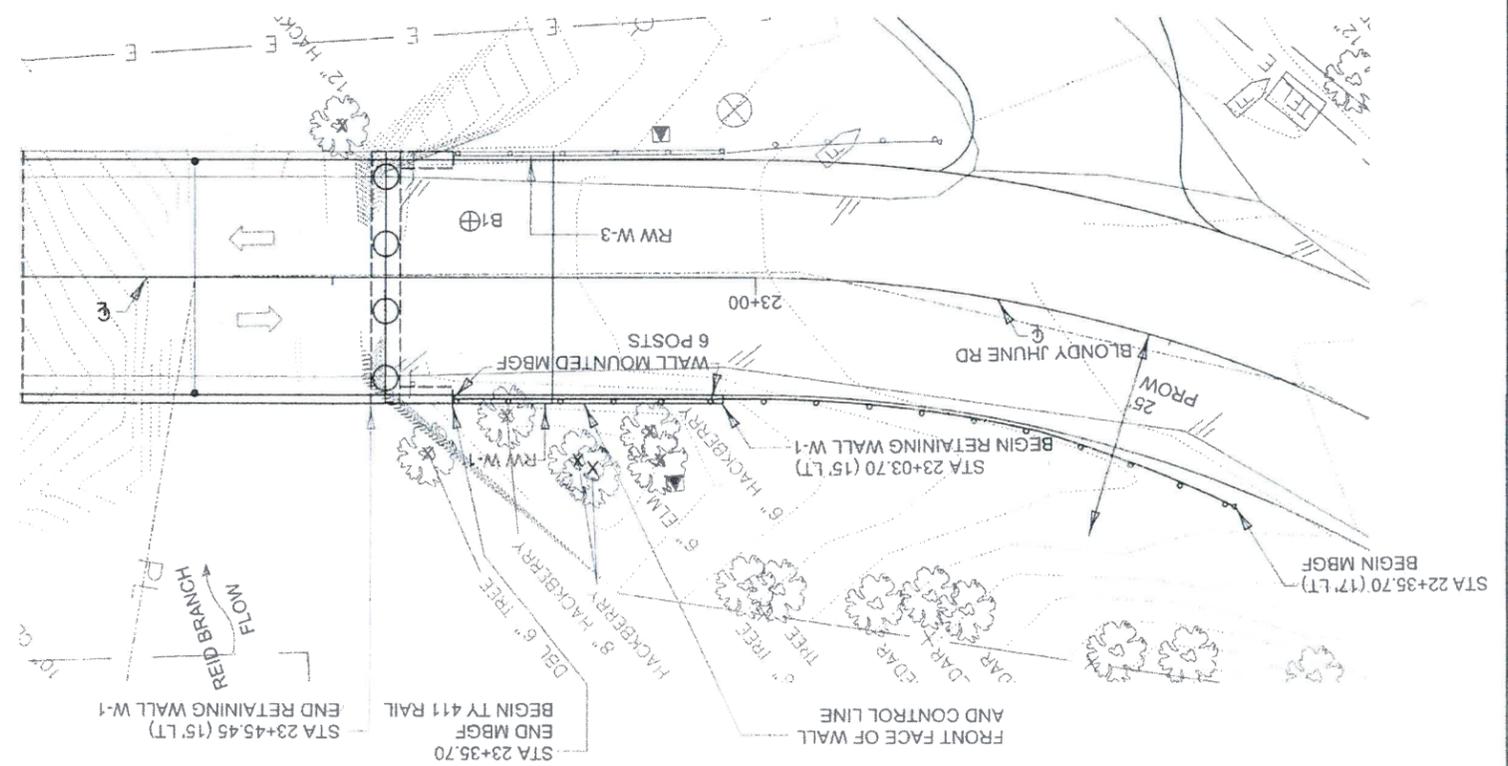
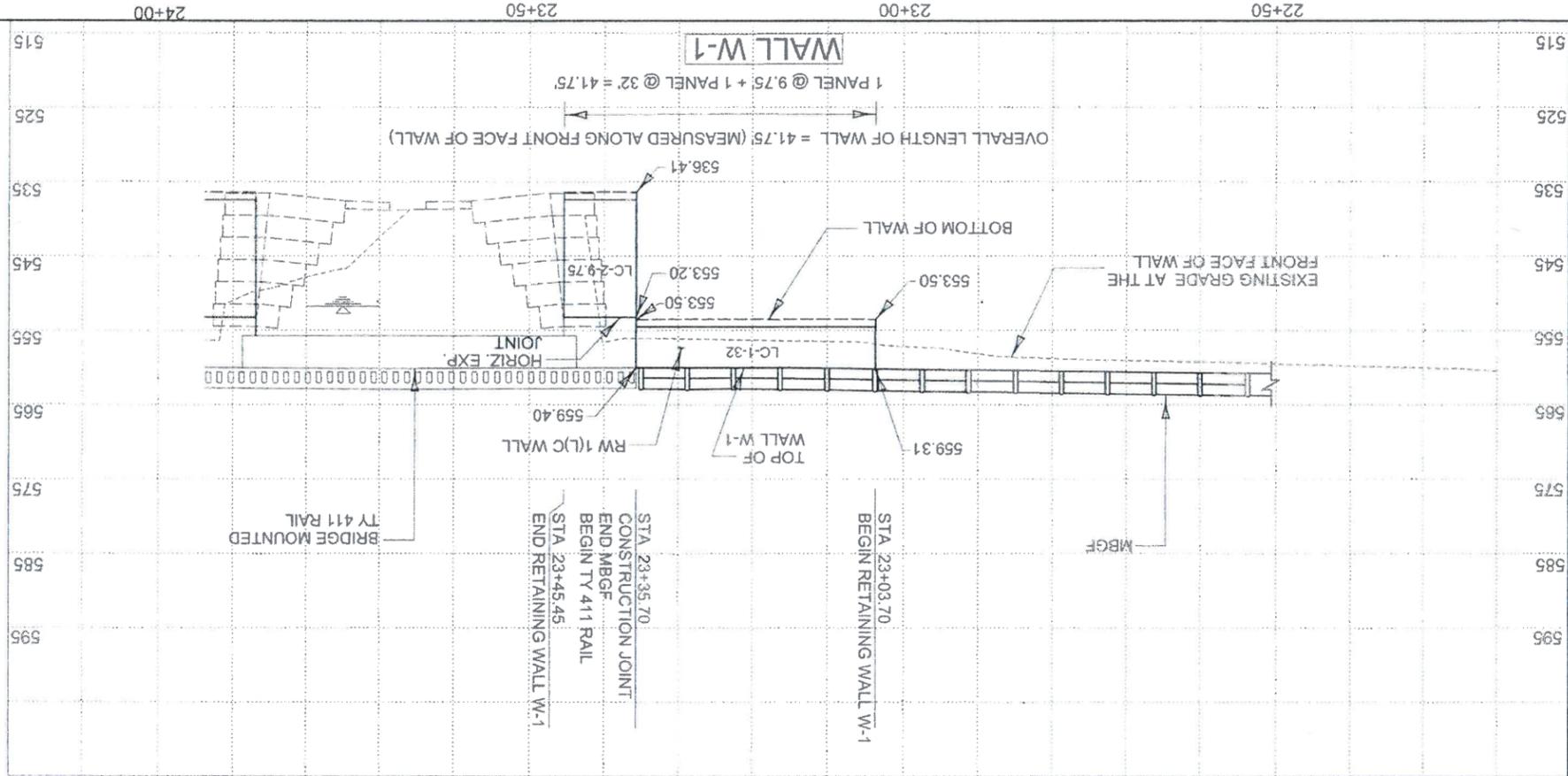
NOTES:
 1) FOR RETAINING WALLS, REFER TO TXDOT STD DETAIL SHEETS
 2) FOR GEOTECHNICAL INFORMATION, REFER TO EMI REPORT
 # MI 153492 JUNE 2015.

19	SHEET	NUMBER	FILE	DATE	DRAWN	DATE	APPROVED	SCALE
WALL W-1 PLAN PROFILE FOR WEST BRIDGE CITY OF LUCAS, TEXAS								
MI METROPOLITAN INFRASTRUCTURE, PLLC <small>10845 STATE LN, STE E225, DALLAS, TX, 75238 (214) 341-1548 TX REGISTRATION NO. 0638</small>								

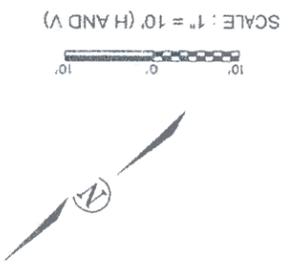


UTILITY LOCATION NOTE:
 The location of existing utilities shown on these plans are approximate and based on existing plans and data furnished by utility companies. It is the responsibility of the contractor to verify the location and depth of all existing utilities that may conflict with construction. Call 1-800-344-8377 two working days prior to construction for utility locations. Any damage to existing utilities shall be repaired at contractor's expense, at no additional cost.

CALL BEFORE YOU DIG!
 TEXAS ONE CALL PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG. DRILL OR BLAST - STOP CALL
 1-800-DIG-TESS
 Texas One Call System



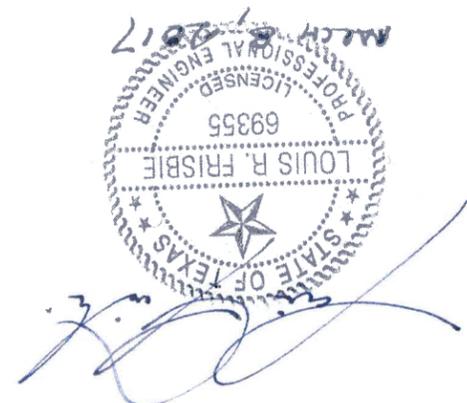
- 1) FOR GEOTECHNICAL INFORMATION, REFER TO EMI REPORT # M1153492 JUNE 2015, FOR SOIL BORINGS.
- 2) REFER TO RETAINING WALL TYPICAL SECTIONS SHEET AND MSE WALL DETAIL SHEETS.
- 3) PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATIONS TO AVOID ANY CONFLICTS WITH WALLS.
- 4) FOR GABION WALLS, REF. TO GABION PLANS AND DETAIL SHEETS.



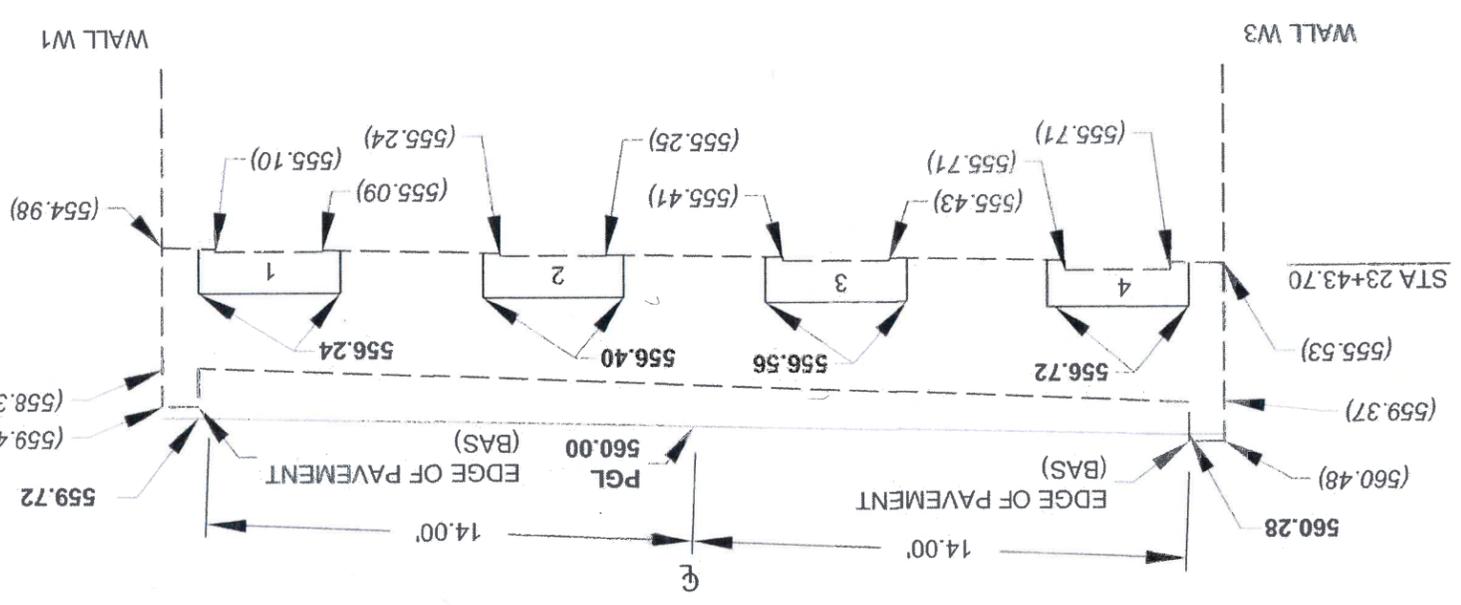
X TREE TO BE REMOVED

1/4	SHEET	1/4
DESIGN NUMBER	FILE	NUMBER
CITY OF LUCAS, TEXAS		
BLONDY JHUNE ROAD BRIDGES		
WEST BRIDGE		
BLONDY JHUNE ROAD		
BEARING SEAT ELEVATIONS		
M METROPOLITAN INFRASTRUCTURE, PLLC 10945 ESTATE LN, STE E225, DALLAS, TX 75228 FIRM REGISTRATION NO. 6639		

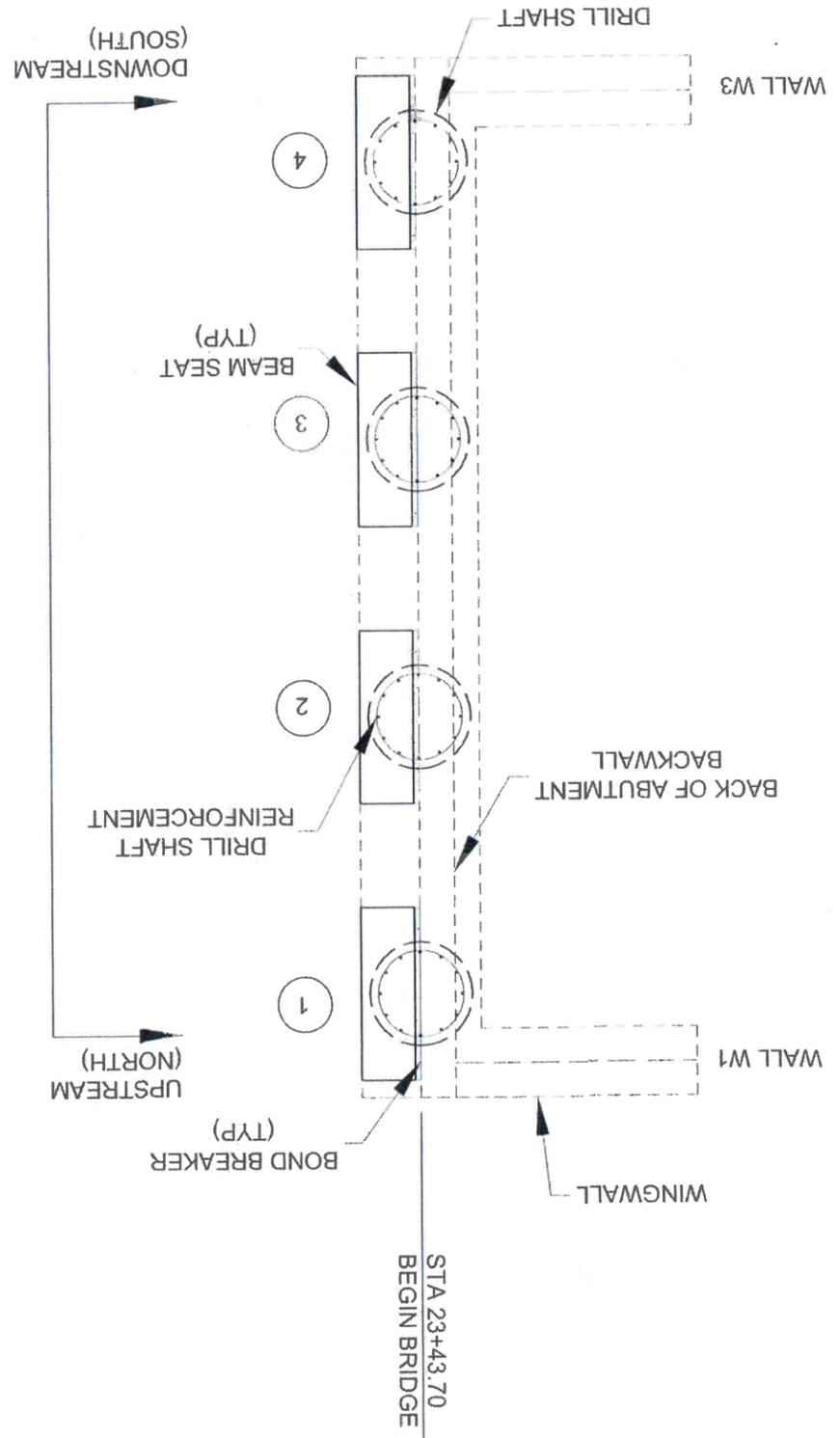
AS-BUILT CONDITION (02-07-2017)
 FIELD MOD (03-08-2017)

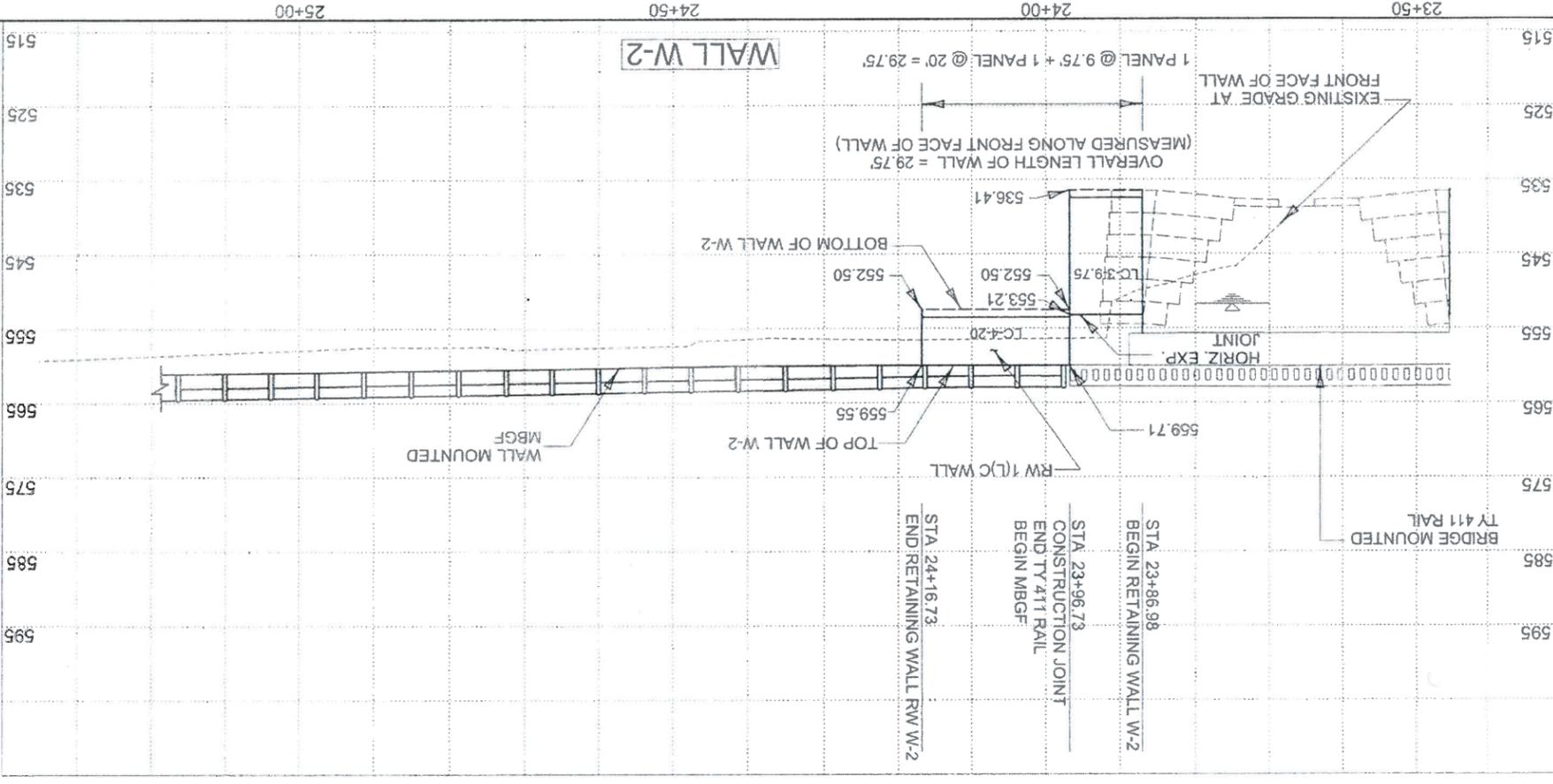


WEST BRIDGE WEST ABUTMENT



KEY		
AS-BUILT/SURVEY ELEVATION		(560.00)
MI DESIGN ELEVATION		560.00





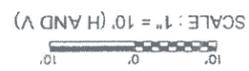
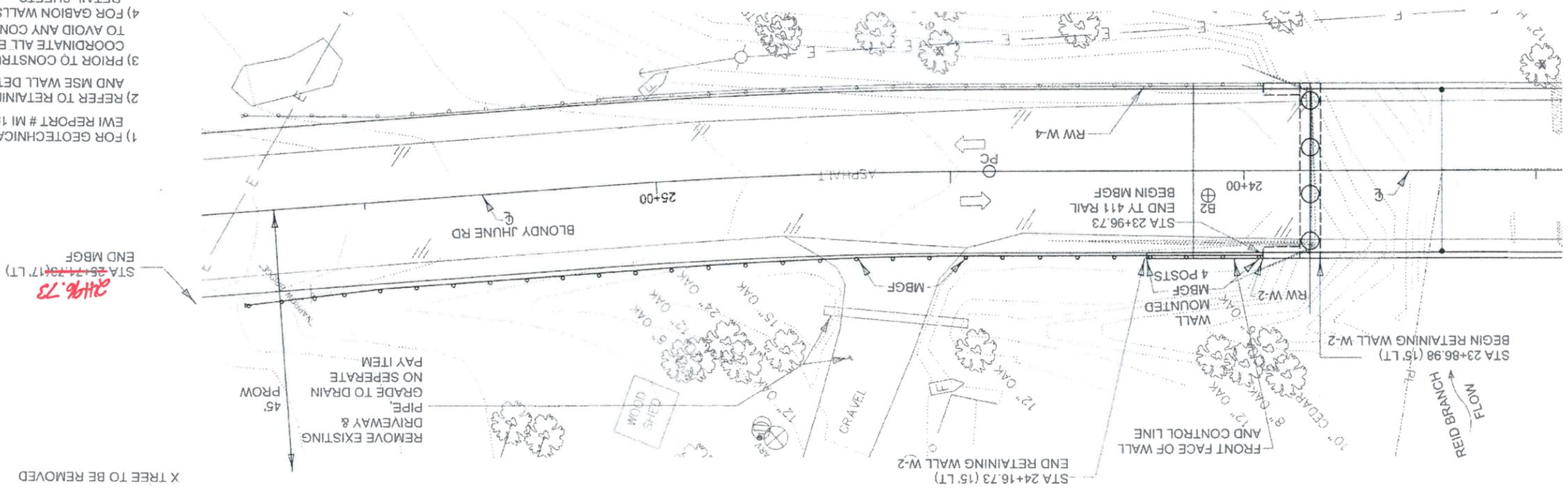
20	2015	DATE	FILE	NUMBER	SHEET
DESIGN	DRAWN	DATE	FILE	NUMBER	SHEET
CITY OF LUCAS, TEXAS					
BLONDY JHUNE ROAD BRIDGES					
FOR WEST BRIDGE					
WALL W-2 PLAN PROFILE					
MI METROPOLITAN INFRASTRUCTURE, PLLC FIRM REGISTRATION NO. 6939 10045 ESTATE LN, STE 2225, DALLAS, TX 75228 (972) 341-1501, Fax (972) 341-1500					



UTILITY LOCATION NOTE:
 The location of existing utilities shown on these plans are approximate and based on existing plans and data furnished by utility companies. It is the responsibility of the contractor to verify the location and depth of all existing utilities that may conflict with construction. Call 1-800-344-8377 two working days prior to construction for onsite locations. Any damage to existing utilities shall be repaired at contractor's expense, at no additional cost.

CALL BEFORE YOU DIG!
 TEXAS ONE CALL PARTNERS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST - STOP CALL
 Texas One Call System
 1-800-DIG-TESS

- 1) FOR GEOTECHNICAL INFORMATION, REFER TO EWI REPORT # MI 153492 JUNE 2015, FOR SOIL BORINGS AND MSE WALL DETAIL SHEETS.
- 2) REFER TO RETAINING WALL TYPICAL SECTIONS SHEET AND MSE WALL DETAIL SHEETS.
- 3) PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATIONS TO AVOID ANY CONFLICTS WITH WALLS.
- 4) FOR GABION WALLS, REF. TO GABION PLANS AND DETAIL SHEETS.



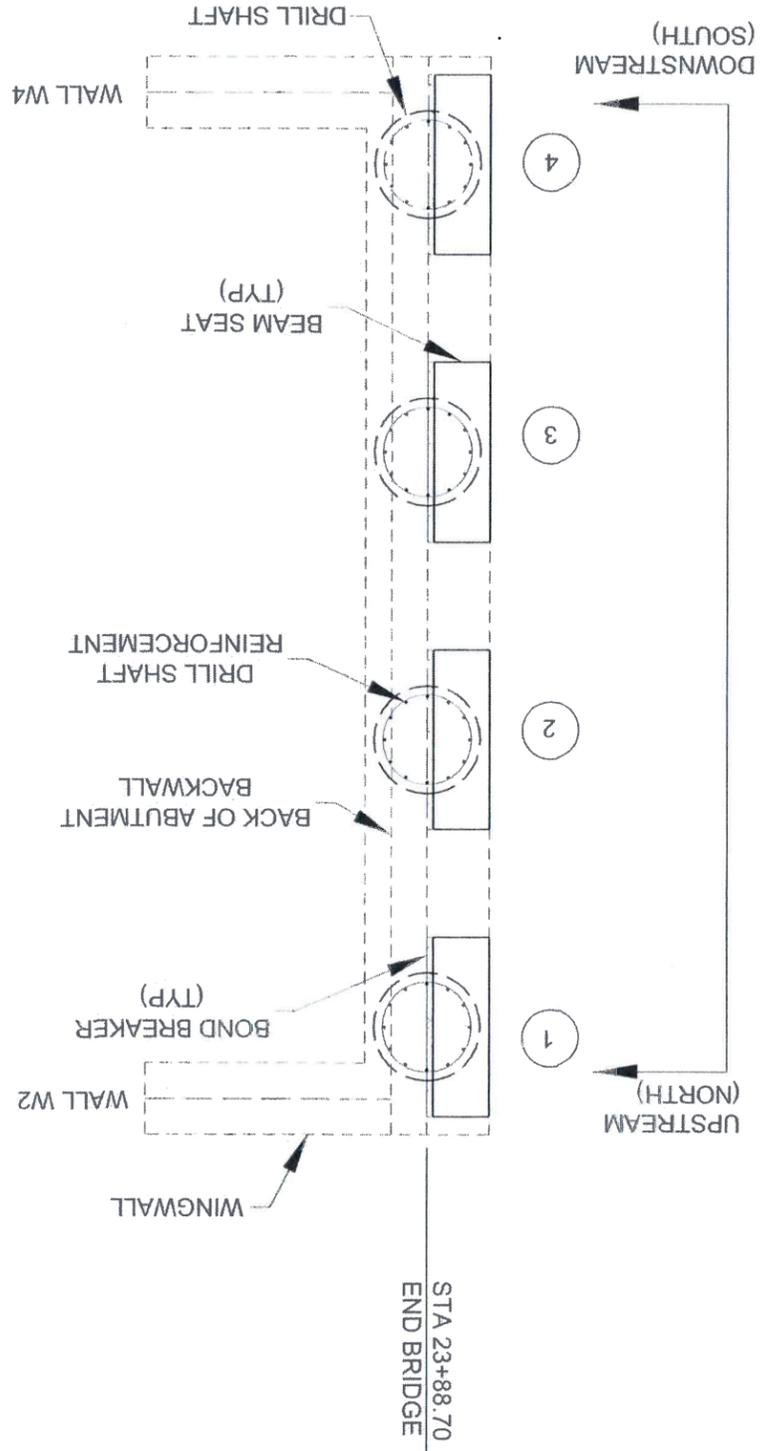
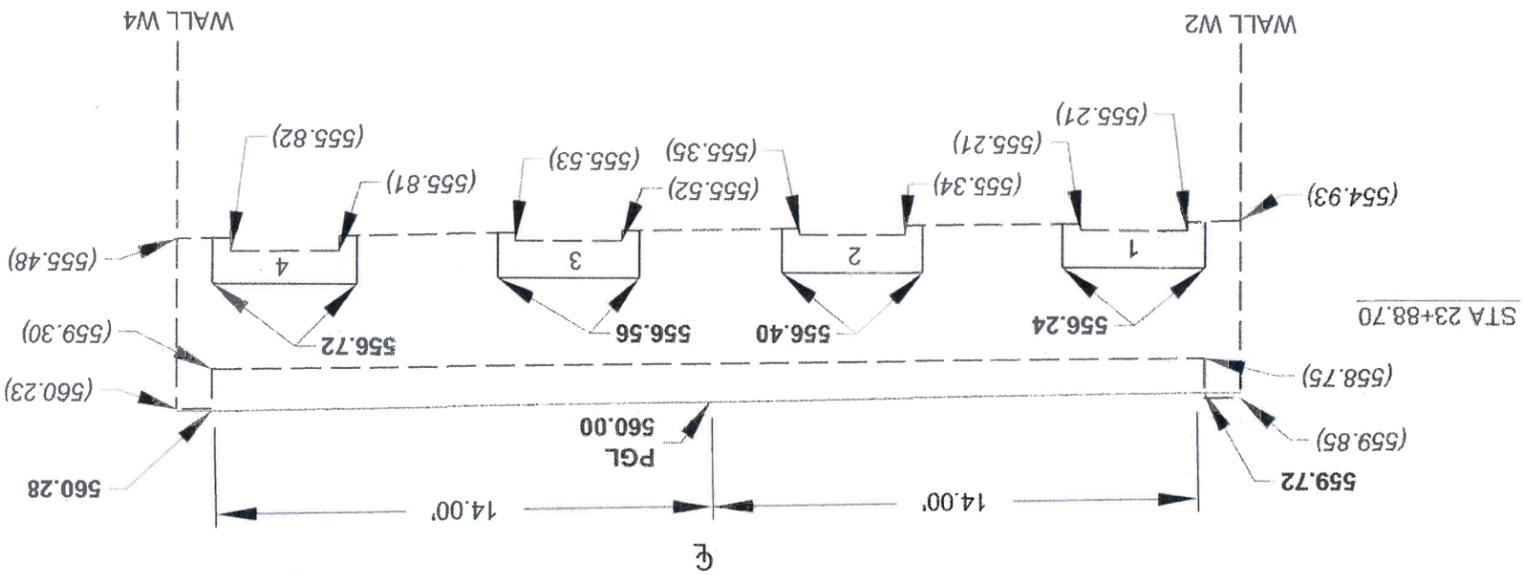
X TREE TO BE REMOVED

2/4	SHEET	NUMBER	FILE	DATE	DRAWN	PH/KN	MAR 8 2017	LIT
CITY OF LUCAS, TEXAS								DESIGN
BLONDY JHUNE ROAD BRIDGES								WEST BRIDGE
BLONDY JHUNE ROAD								BEARING SEAT ELEVATIONS
FIELD MOD (03-08-2017)								AS-BUILT CONDITION (02-07-2017)
METROPOLITAN INFRASTRUCTURE, PLLC								10045 ESTATE LN, STE E226, DALLAS, TX, 75238 FHA REGISTRATION NO. 0939



FIELD MOD
(03-08-2017)

AS-BUILT CONDITION
(02-07-2017)



WEST BRIDGE EAST ABUTMENT

KEY		
MI DESIGN ELEVATION		560.00
AS-BUILT/SURVEY ELEVATION		(560.00)

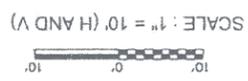
DESIGN	DATE	FILE	NUMBER	SHEET
DRWN	DATE	FILE	NUMBER	SHEET
DATE	FILE	NUMBER	SHEET	21
MI METROPOLITAN INFRASTRUCTURE, PLLC 10845 ESTATE LN, STE E2225, DALLAS, TX, 75228 P.E. # 02191311501, S.E.# 02191311468 P.E. REGISTRATION NO. 6938				
WALL W-3 PLAN PROFILE FOR WEST BRIDGE BLONDY JHUNE ROAD BRIDGES CITY OF LUCAS, TEXAS				



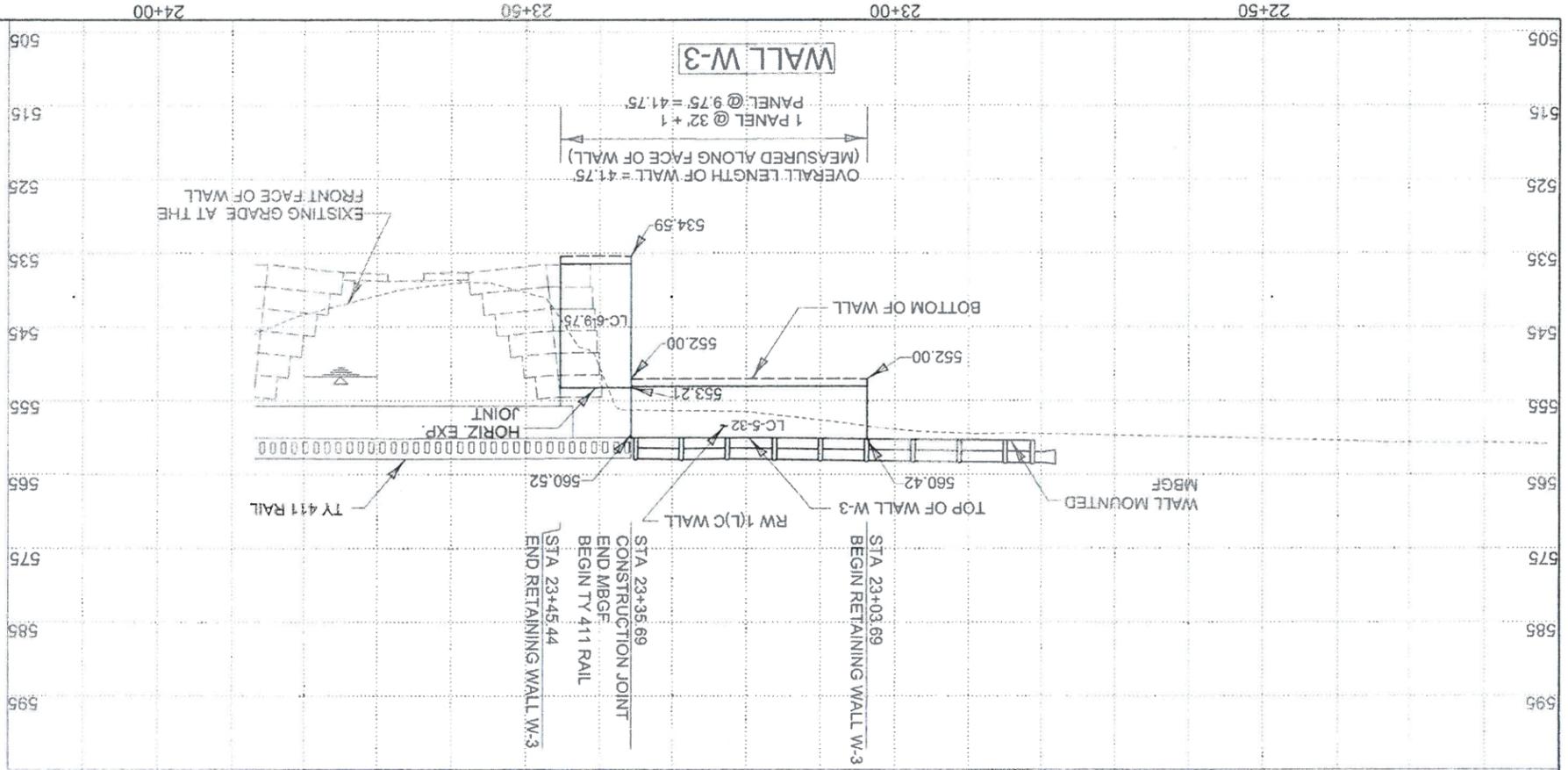
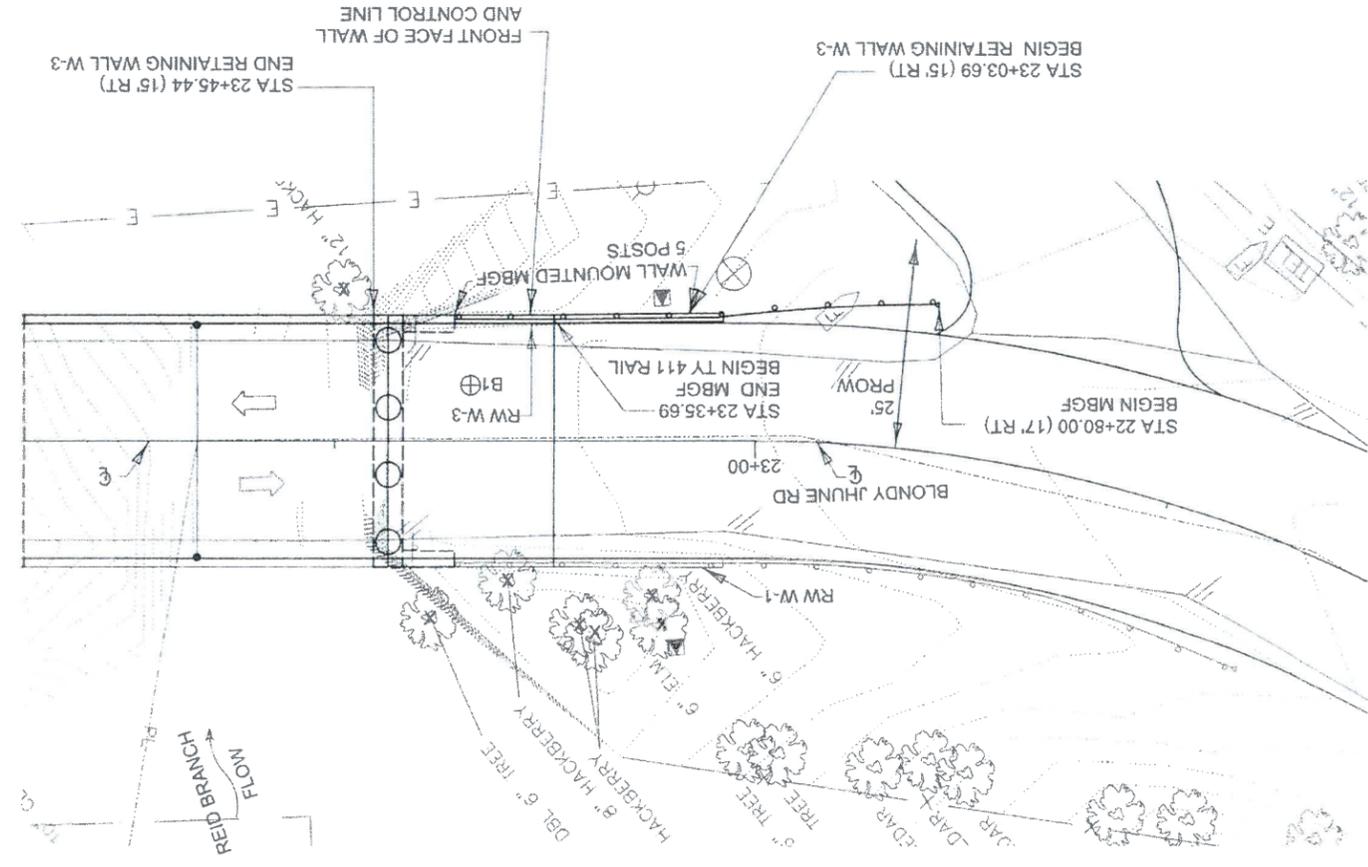
UTILITY LOCATION NOTE:
 The location of existing utilities shown on these plans are approximate and based on existing plans and data furnished by utility companies. It is the responsibility of the contractor to verify the location and depth of all existing utilities that may conflict with construction. Call 1-800-344-8377 two working days prior to construction for onsite locations. Any damage to existing utilities shall be repaired at contractor's expense, at no additional cost.

CALL BEFORE YOU DIG!
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG, DRILL,
 OR BLAST - STOP CALL
 Texas One Call System
 1-800-DIG-TESS

- 1) FOR GEOTECHNICAL INFORMATION, REFER TO EWI REPORT # MI 153492 JUNE 2015, FOR SOIL BORINGS.
- 2) REFER TO RETAINING WALL TYPICAL SECTIONS SHEET AND MSE WALL DETAIL SHEETS.
- 3) PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATIONS TO AVOID ANY CONFLICTS WITH WALLS.
- 4) FOR GABION WALLS, REF. TO GABION PLANS AND DETAIL SHEETS.



X TREE TO BE REMOVED



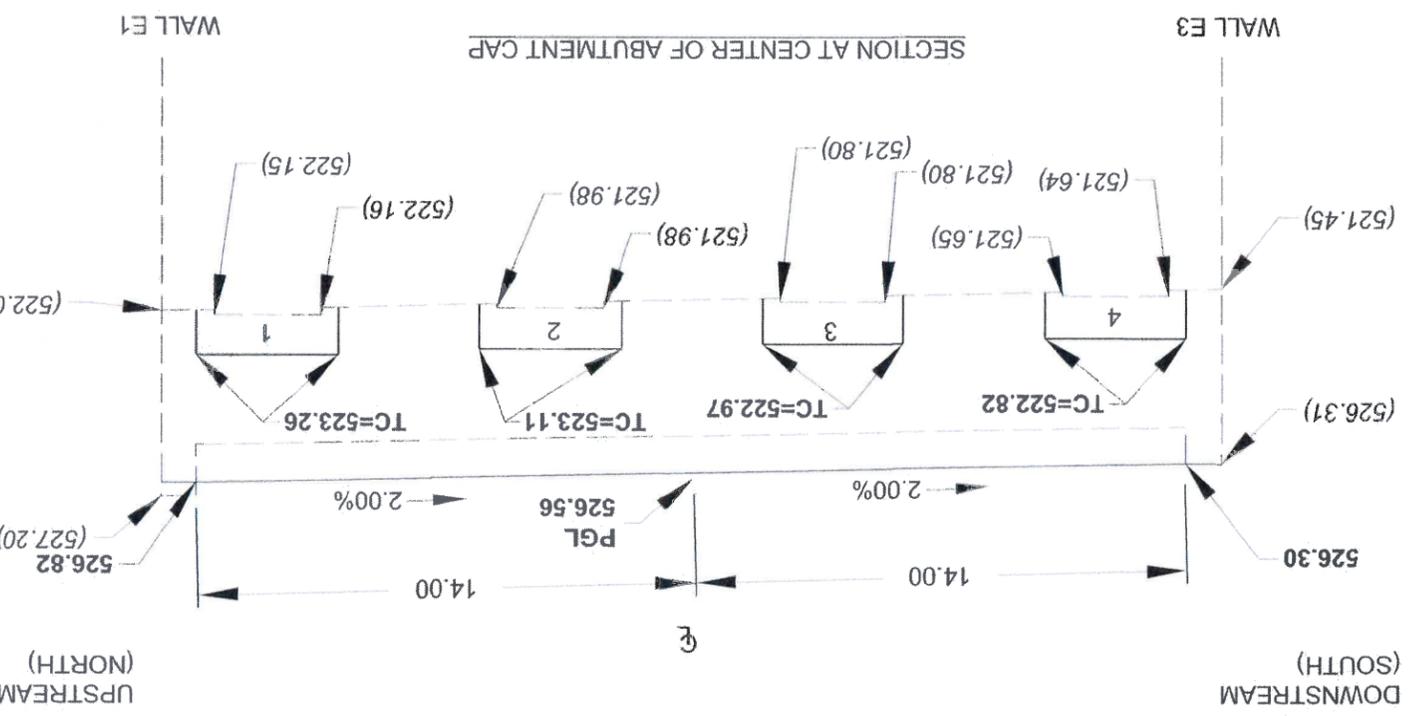
3/4	SHEET	NUMBER	FILE	DATE	DRAWN	DATE	CHK'D	DATE	DATE
BEARING SEAT ELEVATIONS BLONDY JHUNE ROAD EAST BRIDGE BLONDY JHUNE ROAD BRIDGES CITY OF LUCAS, TEXAS									
M METROPOLITAN INFRASTRUCTURE, PLLC 10045 ESTATE LN, STE E225, DALLAS, TX 75238 FIRM REGISTRATION NO. 6838									

FIELD MOD
(03-08-2017)

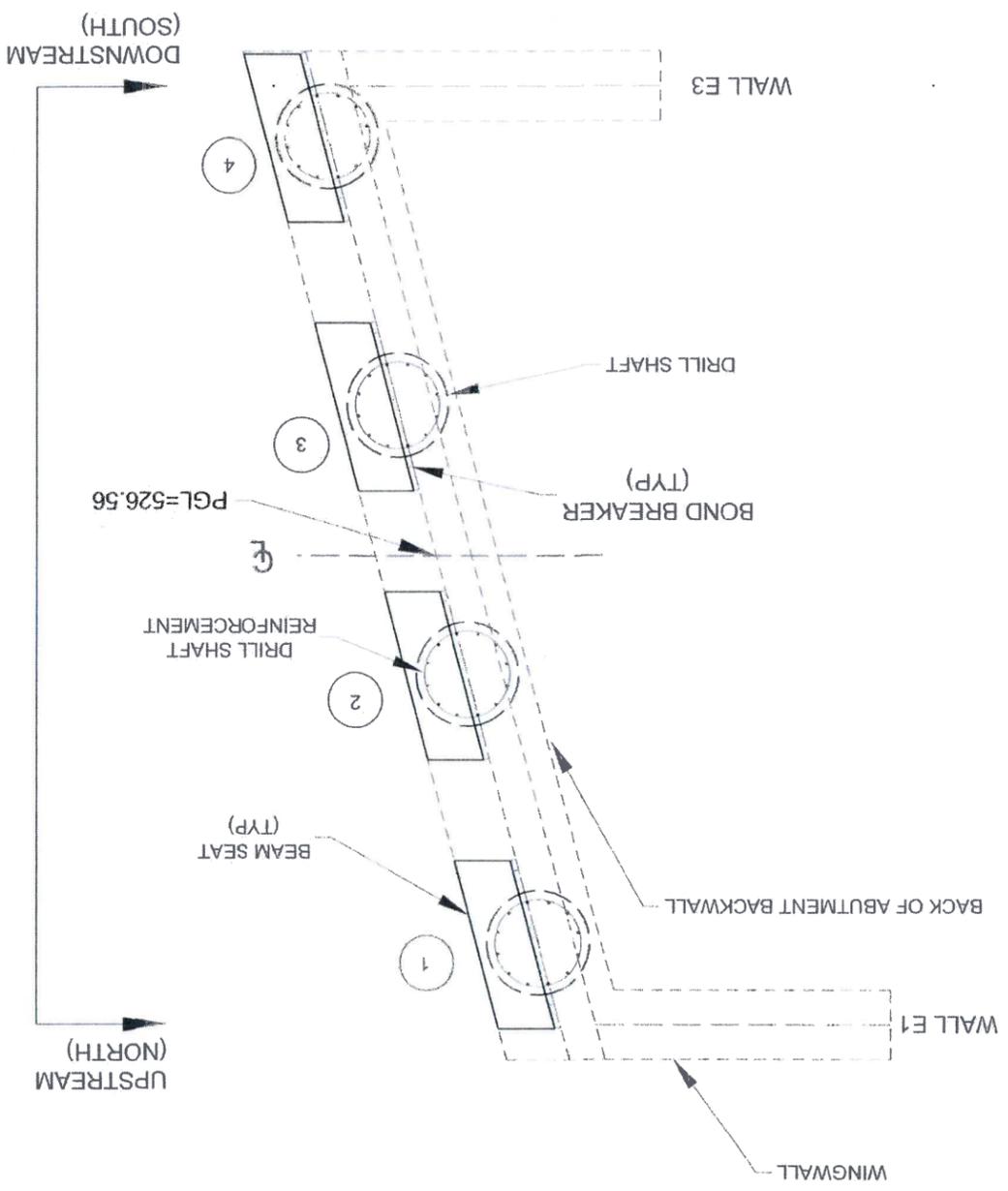
AS-BUILT CONDITION
(02-07-2017)

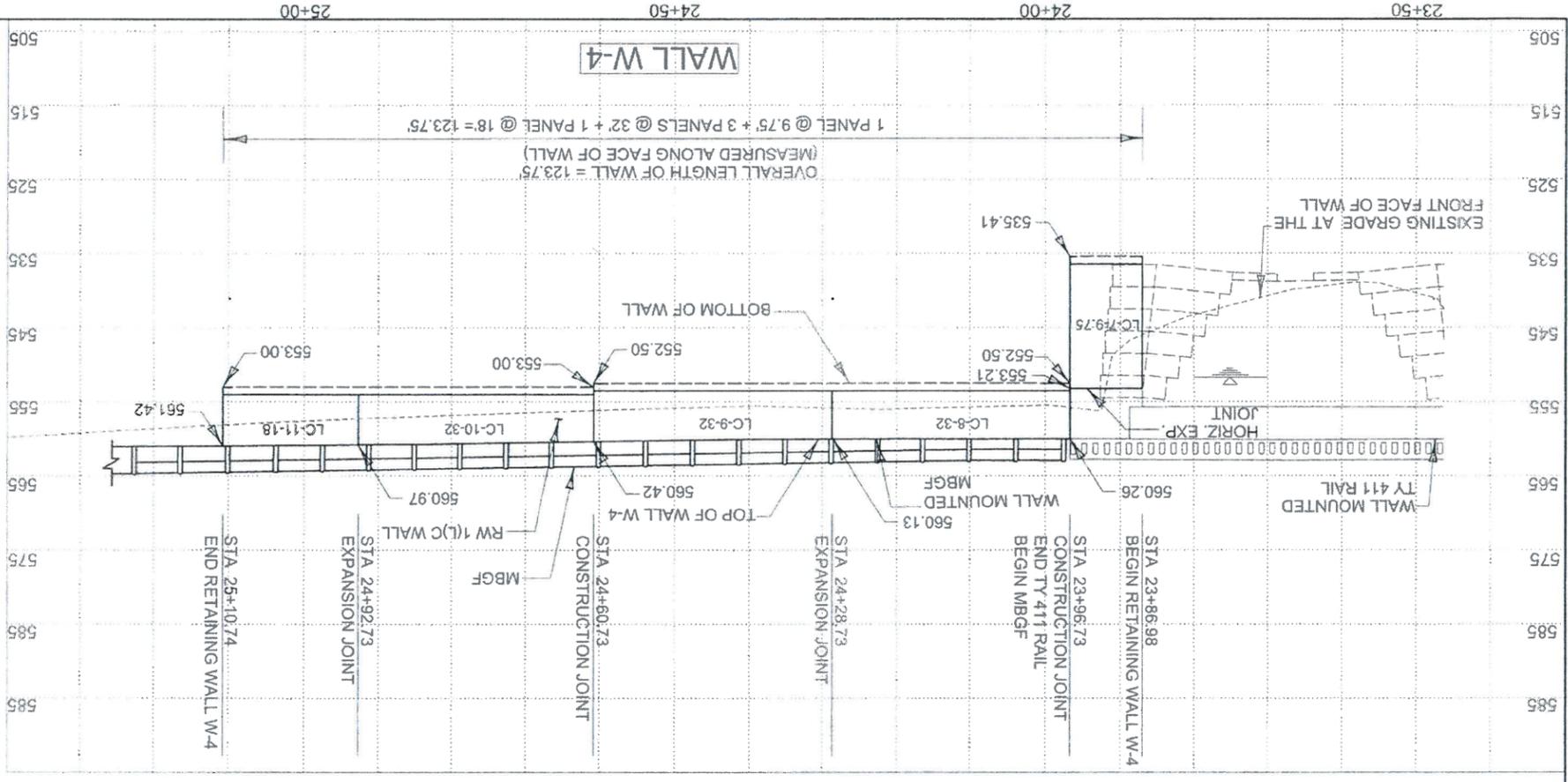


EAST BRIDGE WEST ABUTMENT



KEY		
MI DESIGN ELEVATION		560.00
AS-BUILT/SURVEY ELEVATION*		(560.00)





22	SHEET	NUMBER	FILE	DATE	DRAWN	DATE	APPROVED	DATE
MI METROPOLITAN INFRASTRUCTURE, PLLC 10845 ESTATE LN, STE E225, DALLAS, TX 75238 FIRM REGISTRATION NO. 6939								
WALL W-4 PLAN PROFILE FOR WEST BRIDGE BLONDY JHUNE ROAD BRIDGES CITY OF LUCAS, TEXAS								

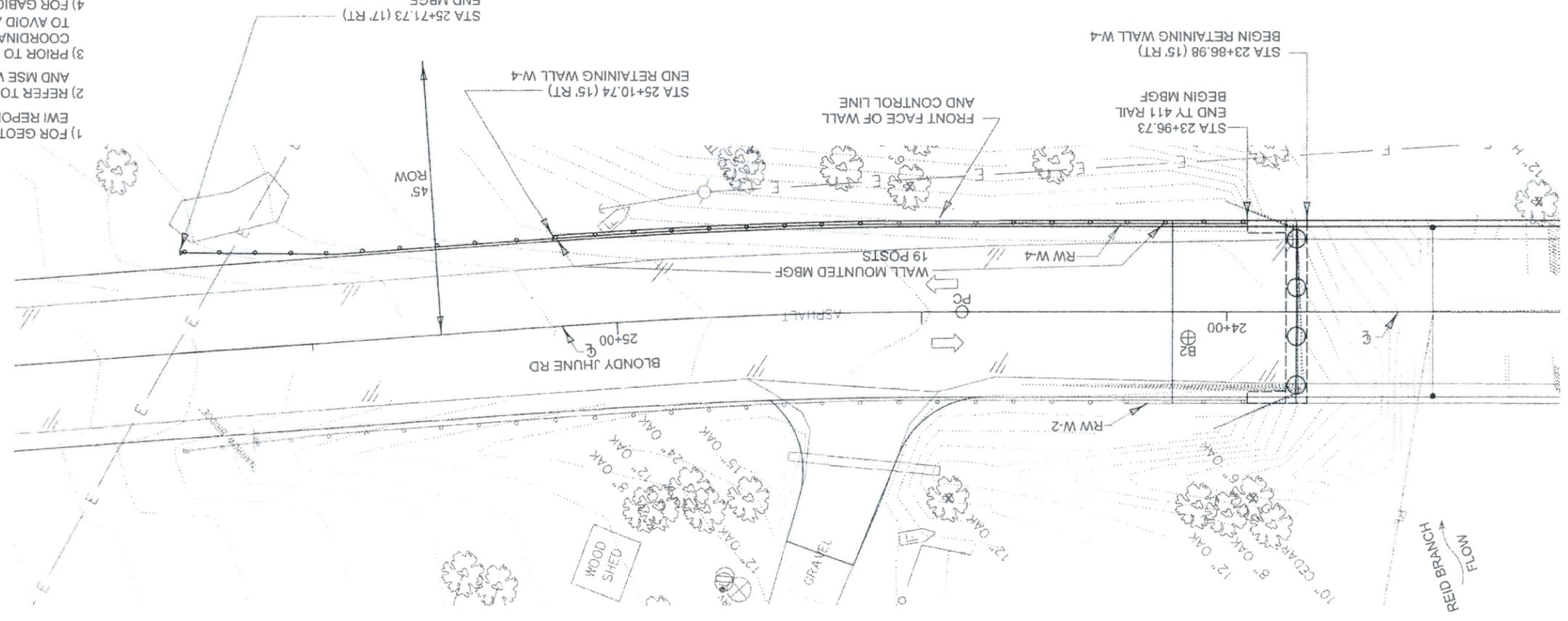
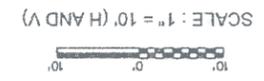


UTILITY LOCATION NOTE:
 The location of existing utilities shown on these plans are approximate and based on existing plans and data furnished by utility companies. It is the responsibility of the contractor to verify the location and depth of all existing utilities that may conflict with construction. Call 1-800-344-5377 two working days prior to construction for onsite locations. Any damage to existing utilities shall be repaired at contractor's expense, at no additional cost.

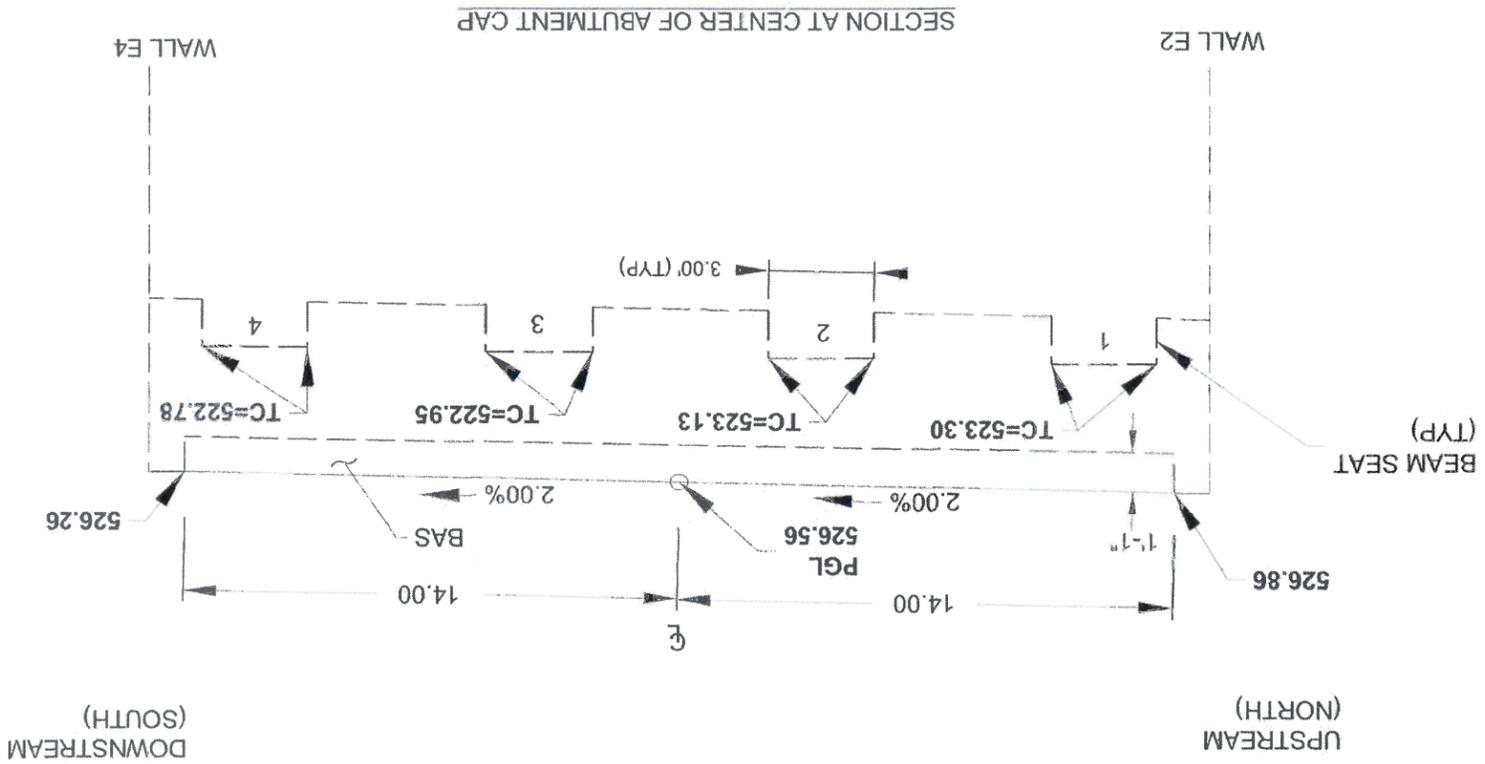
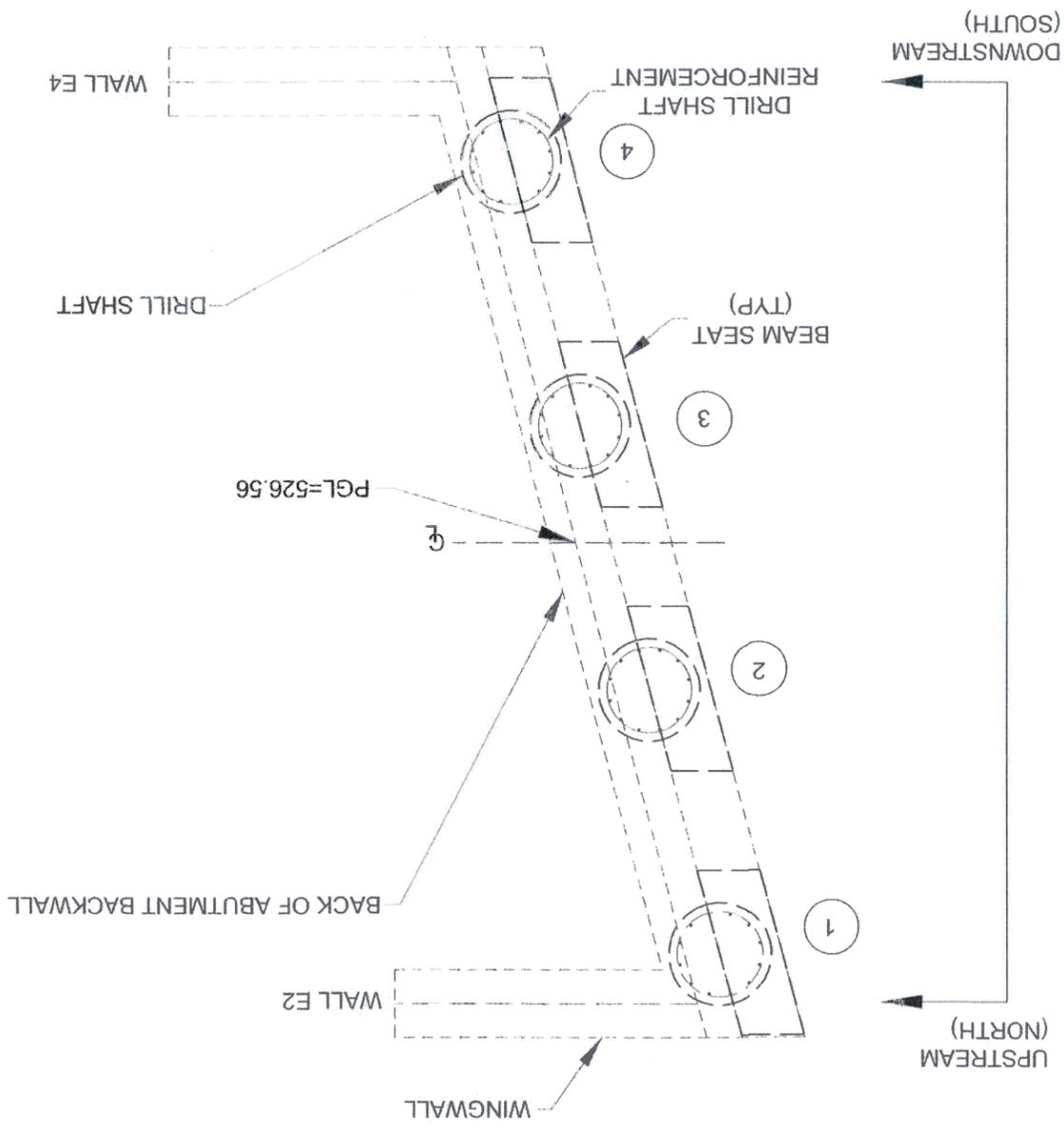
CALL BEFORE YOU DIG!
 TEXAS ONE CALL PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL OR BLAST - STOP CALL
 Texas One Call System
 1-800-DIG-TESS

- 1) FOR GEOTECHNICAL INFORMATION, REFER TO EMI REPORT # MI 153492 JUNE 2015, FOR SOIL BORINGS.
- 2) REFER TO RETAINING WALL TYPICAL SECTIONS SHEET AND MSE WALL DETAIL SHEETS.
- 3) PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATIONS TO AVOID ANY CONFLICTS WITH WALLS.
- 4) FOR GABION WALLS, REF. TO GABION PLANS AND DETAIL SHEETS.

X TREE TO BE REMOVED



EAST BRIDGE EAST ABUTMENT



KEY		
MI DESIGN ELEVATION		560.00
AS-BUILT/SURVEY ELEVATION		(560.00)

*AS-BUILT ELEVATIONS NOT AVAILABLE AT THIS TIME



FIELD MOD
(03-08-2017)

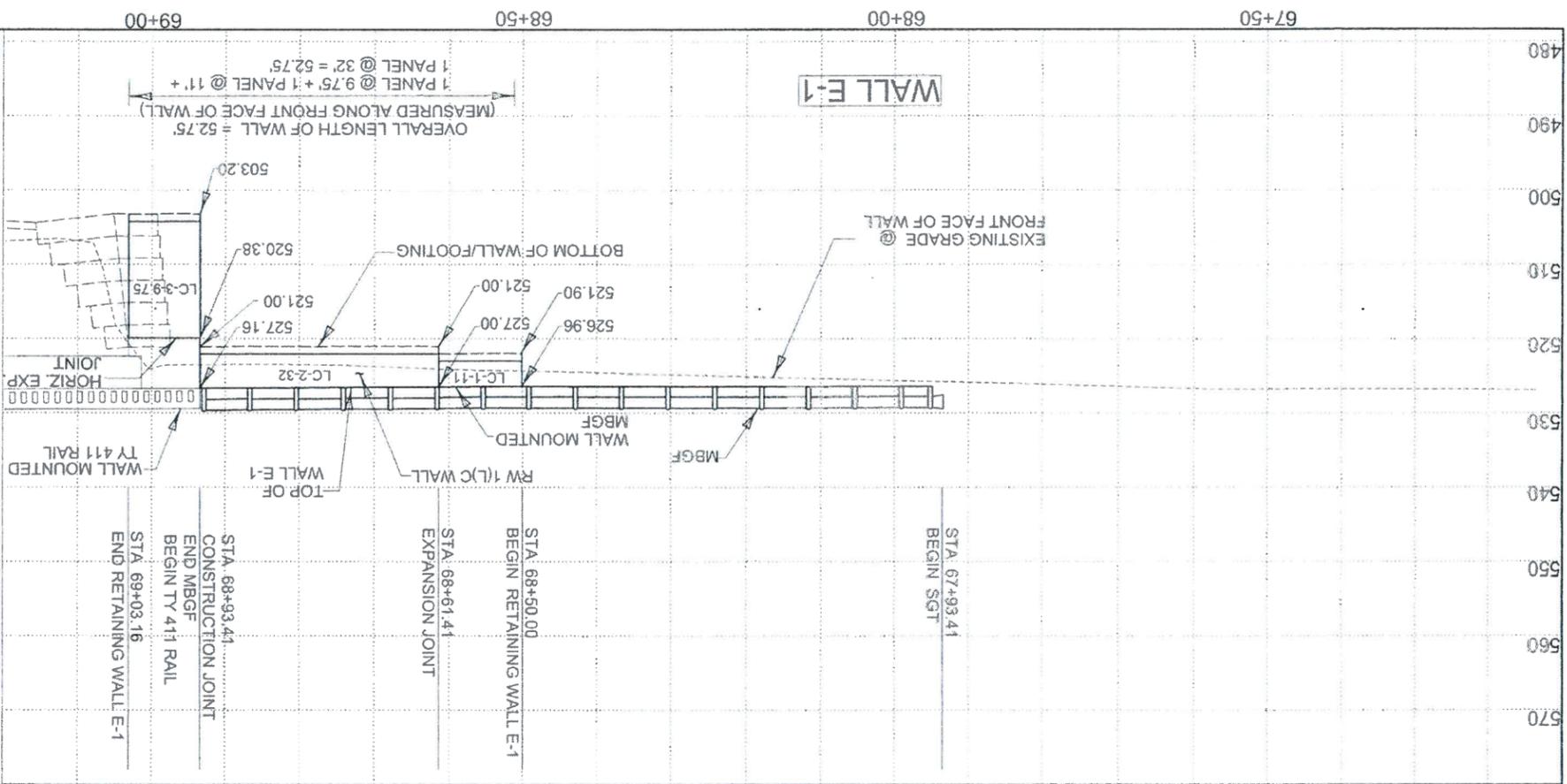
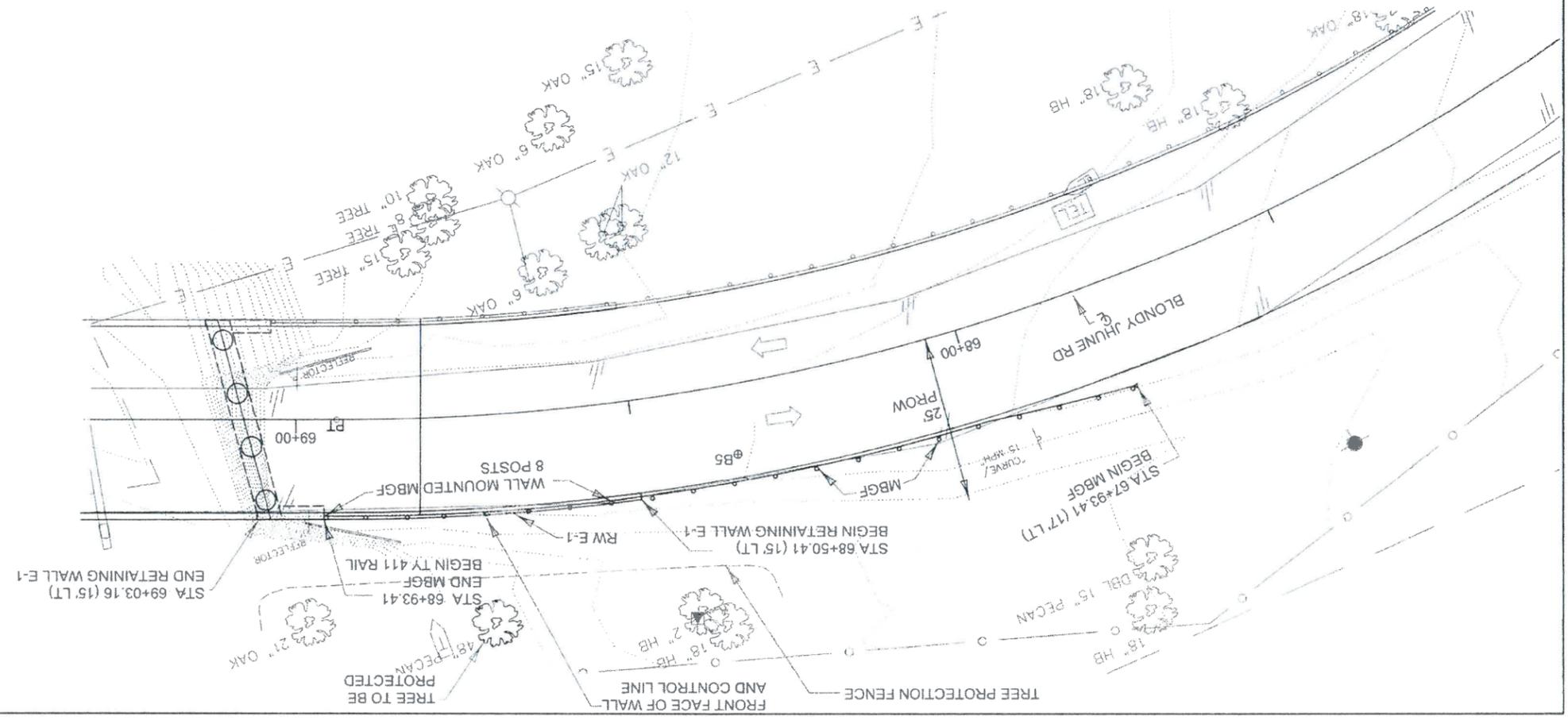
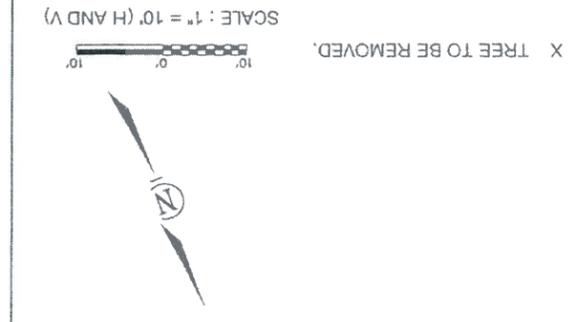
M METROPOLITAN INFRASTRUCTURE, PLLC 10045 ESTATE LN, STE E225, DALLAS, TX, 75238 FIRM REGISTRATION NO. 6839	
DESIGN	DATE
DRAWN	DATE
CHKD	DATE
APP	DATE
SHEET	NUMBER
BEARING SEAT ELEVATIONS	
BLONDY JHUNE ROAD	
EAST BRIDGE	
BLONDY JHUNE ROAD BRIDGES	
CITY OF LUCAS, TEXAS	
SHEET	4/4

23	SHEET	NUMBER	FILE	DATE	DESIGN	DATE	APPROVAL	DATE
CITY OF LUCAS, TEXAS								
BLONDY JHUNE ROAD BRIDGES								
FOR EAST BRIDGE								
WALL E-1 PLAN PROFILE								
MI METROPOLITAN INFRASTRUCTURE, PLLC <small>10945 ESTATE LN, STE 225, DALLAS, TX, 75238 P.E. REGISTRATION NO. 69355</small>								

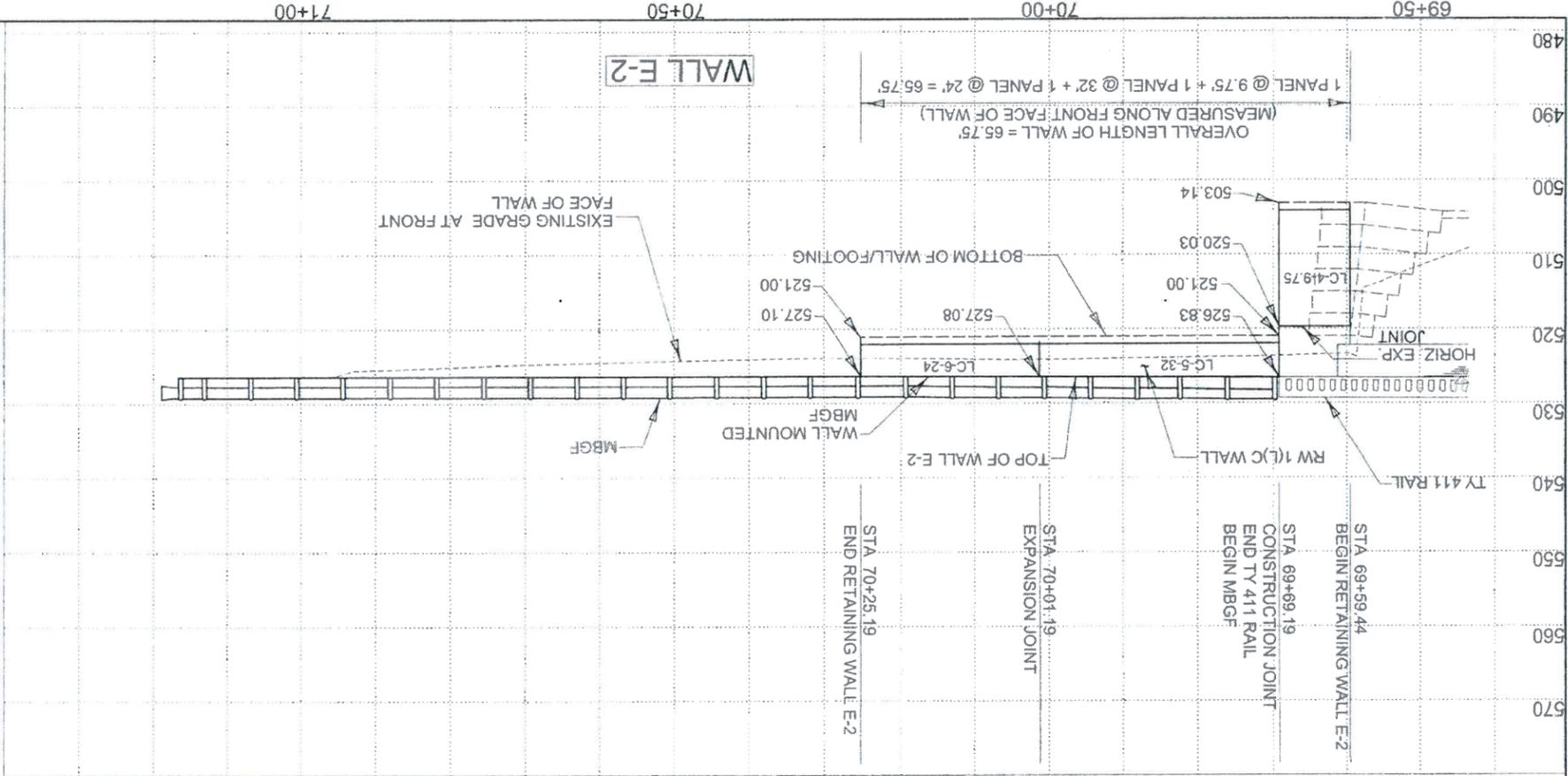
UTILITY LOCATION NOTE:
 The location of existing utilities shown on these plans are approximate and based on existing plans and data furnished by utility companies. It is the responsibility of the contractor to verify the location and depth of all existing utilities that may conflict with construction. Call 1-800-344-8377 two working days prior to construction for onsite locations. Any damage to existing utilities shall be repaired at contractor's expense, at no additional cost.

CALL BEFORE YOU DIG!
 TEXAS ONE CALL PARTNERS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST - STOP CALL
 Texas One Call System
 1-800-DIG-TESS

- 1) FOR GEOTECHNICAL INFORMATION, REFER TO EWI REPORT # MI 153492 JUNE 2015, FOR SOIL BORINGS AND MSE WALL DETAIL SHEETS.
- 2) REFER TO RETAINING WALL TYPICAL SECTIONS SHEET AND MSE WALL DETAIL SHEETS.
- 3) PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATIONS TO AVOID ANY CONFLICTS WITH WALLS.
- 4) FOR GABION WALLS REF. TO GABION PLANS AND DETAIL SHEETS.



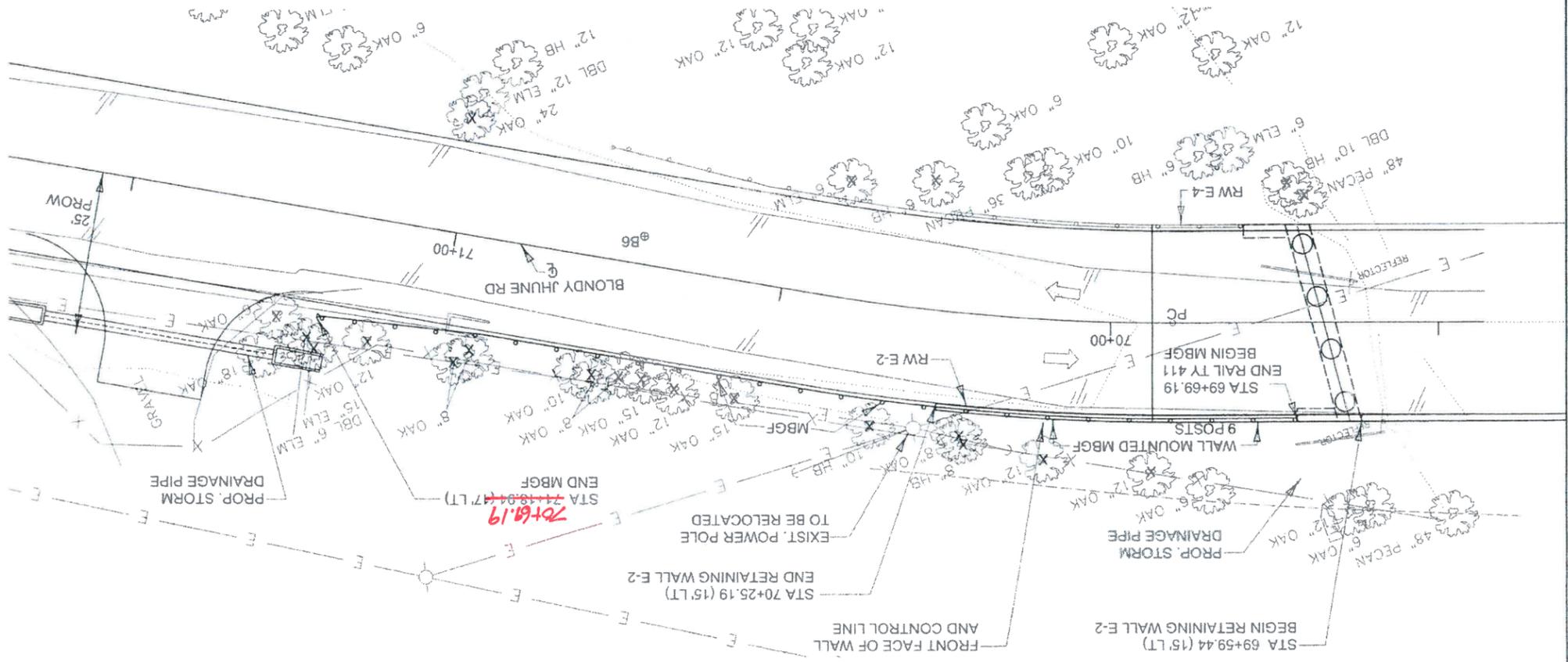
24	SHEET
NUMBER	FILE
DATE	DRAWN
NO. 27	DATE
NO. 27	DATE
CITY OF LUCAS, TEXAS	
BLONDY JHUNE ROAD BRIDGES	
FOR EAST BRIDGE	
WALL E-2 PLAN PROFILE	



UTILITY LOCATION NOTE:
 The location of existing utilities shown on these plans are approximate and based on existing plans and data furnished by utility companies. It is the responsibility of the contractor to verify the location and depth of all existing utilities that may conflict with construction. Call 1-800-344-8377 two working days prior to construction for onsite locations. Any damage to existing utilities shall be repaired at contractor's expense, at no additional cost.

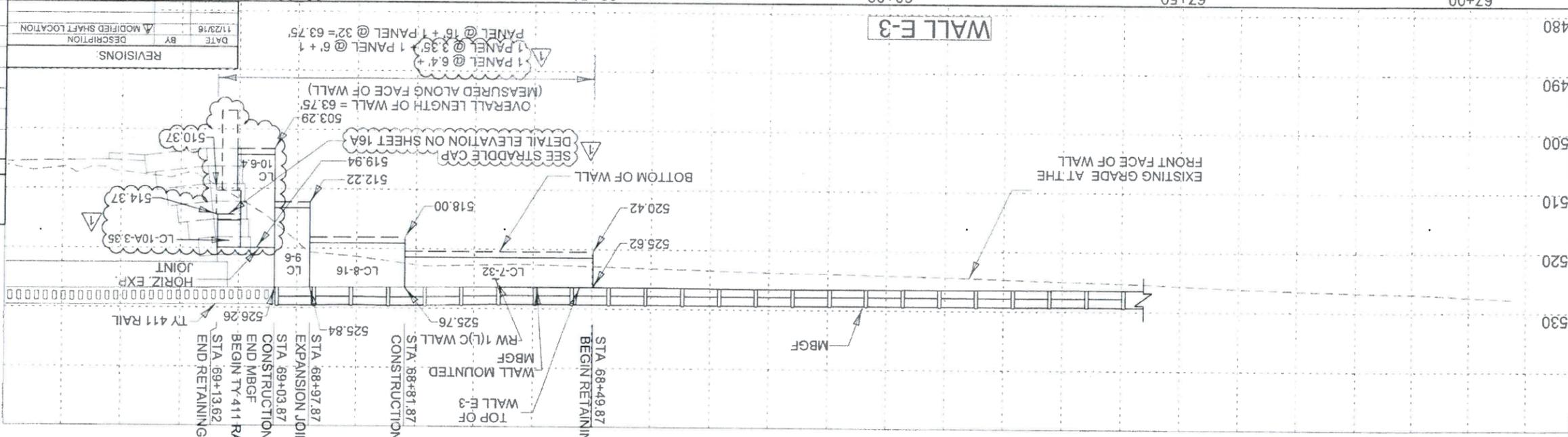
CALL BEFORE YOU DIG!
 TEXAS ONE CALL PARTNERS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST - STOP CALL
 Texas One Call System
 1-800-DIG-TESS

- 1) FOR GEOTECHNICAL INFORMATION, REFER TO EWI REPORT # MI 153492 JUNE 2015, FOR SOIL BORINGS
- 2) REFER TO RETAINING WALL TYPICAL SECTIONS SHEET AND MSE WALL DETAIL SHEETS.
- 3) PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATIONS TO AVOID ANY CONFLICTS WITH WALLS.
- 4) FOR GABION WALLS REF. TO GABION PLANS AND DETAIL SHEETS.



SCALE: 1" = 10' (H AND V)
 X TREES TO BE REMOVED.

25	SHEET	NUMBER	FILE	DATE	DRAWN	DATE	NO. 23	NO. 23
CITY OF LUCAS, TEXAS								
BLONDY JHUNE ROAD BRIDGES								
FOR EAST BRIDGE								
WALL E-3 PLAN PROFILE								



UTILITY LOCATION NOTE:
 The location of existing utilities shown on these plans are approximate and based on existing plans and data furnished by utility companies. It is the responsibility of the contractor to verify the location and depth of all existing utilities that may conflict with construction. Call 1-800-344-8377 two working days prior to construction for onsite locations. Any damage to existing utilities shall be repaired at contractor's expense, at no additional cost.

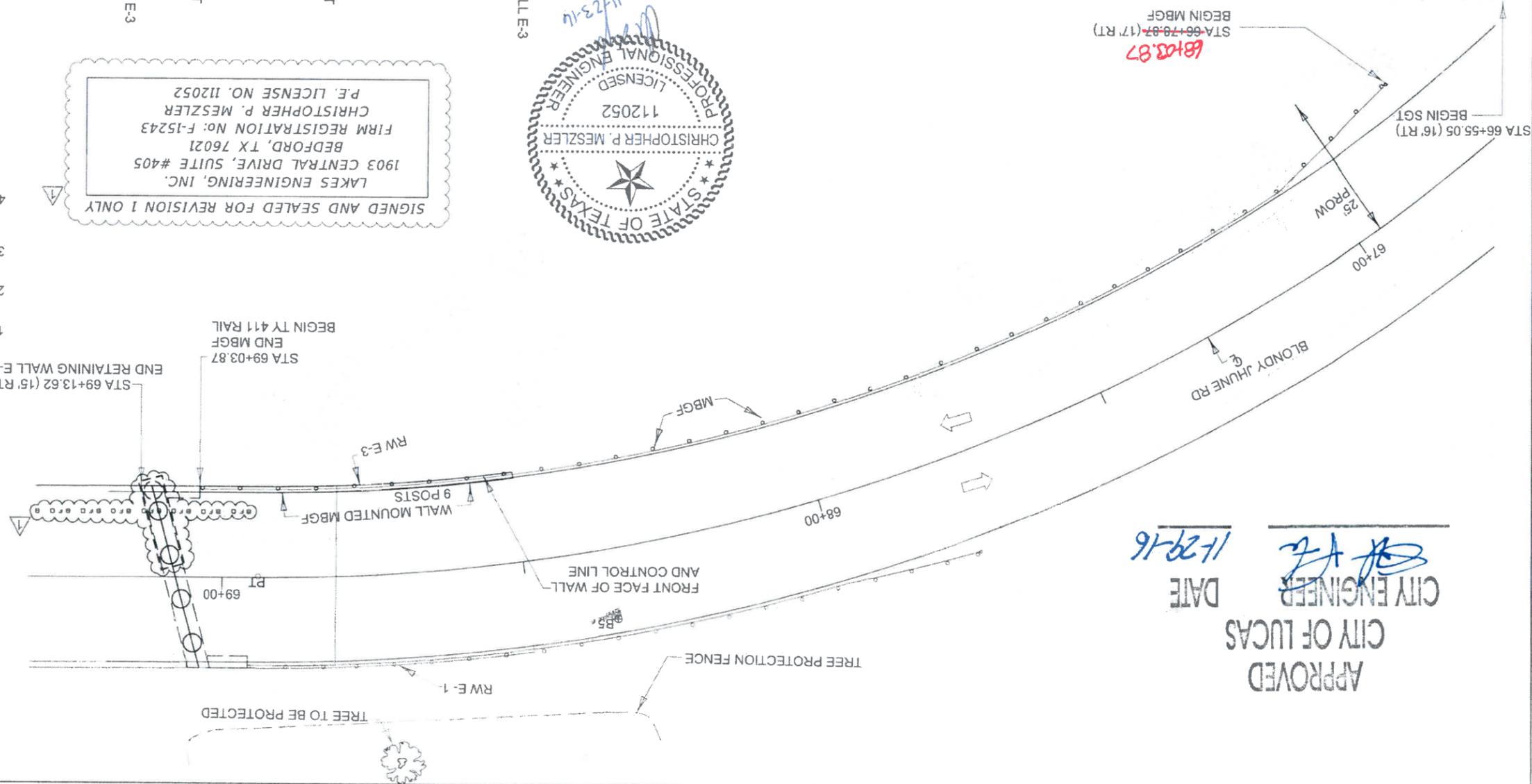
CALL BEFORE YOU DIG!
 TEXAS ONE CALL PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG. DRILL OR BLAST - STOP CALL
 1-800-DIG-TESS
 Texas One Call System

SIGNED AND SEALED FOR REVISION 1 ONLY
 LAKES ENGINEERING, INC.
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 FIRM REGISTRATION NO: F-15243
 CHRISTOPHER P. MESZLER
 P.E. LICENSE NO. 112052

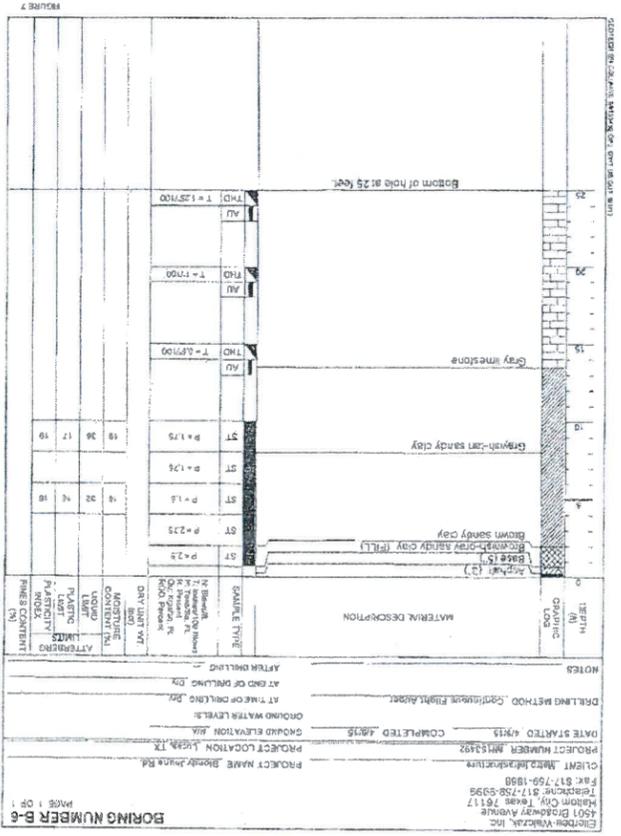
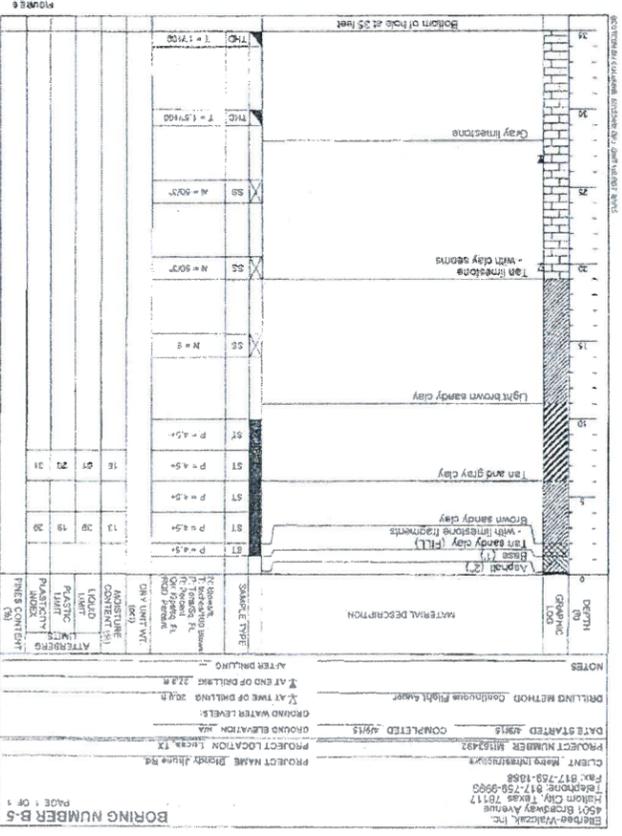
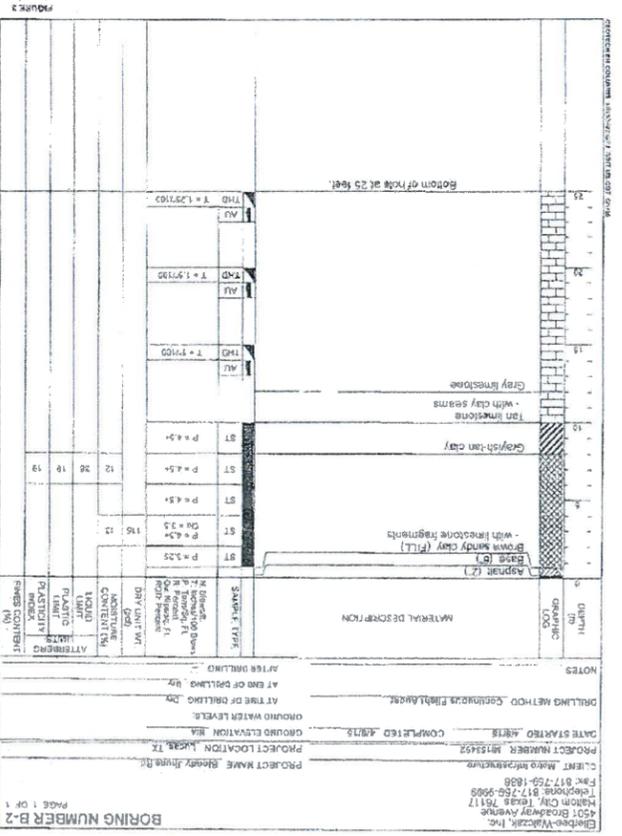
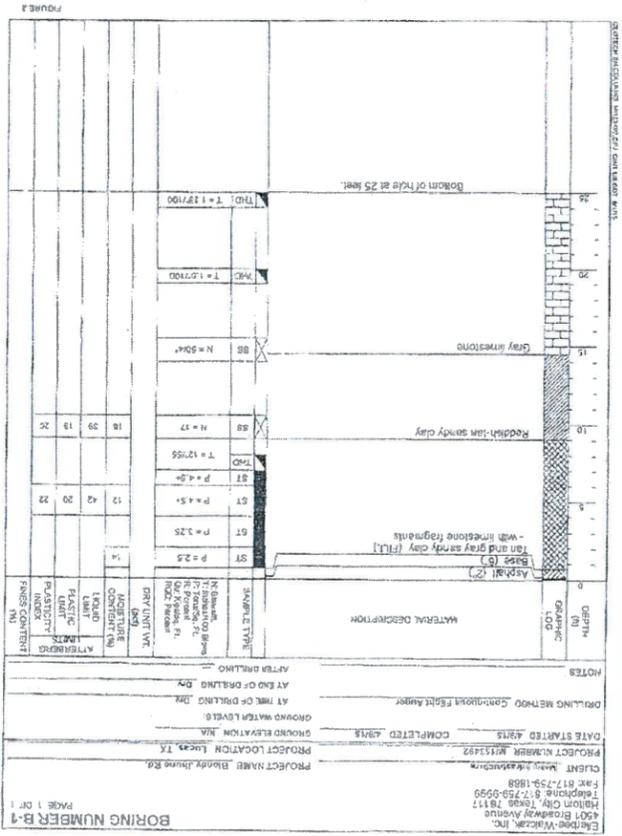


- 1) FOR GEOTECHNICAL INFORMATION, REFER TO EMI REPORT # MI 153492 JUNE 2015, FOR SOIL BORINGS.
- 2) REFER TO RETAINING WALL TYPICAL SECTIONS SHEET AND MSE WALL DETAIL SHEETS.
- 3) PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATIONS TO AVOID ANY CONFLICTS WITH WALLS.
- 4) FOR GABION WALLS, REF. TO GABION PLANS AND DETAIL SHEETS.

SCALE: 1" = 10' (H AND V)
 X TREES TO BE REMOVED.



APPROVED
 CITY ENGINEER
 CITY OF LUCAS
 DATE 11-29-16



DRILLING METHOD: Continuous Flight Auger
 DATE STARTED: 4/9/15
 PROJECT NUMBER: M151452
 PROJECT LOCATION: Lucas, TX
 CLIENT: Metro Infrastructure
 PROJECT NAME: Blondy Jhune Rd

28	SHEET	NUMBER	FILE	DATE	DRAWN	DATE	DESIGN	DATE	DATE	DATE
CITY OF LUCAS, TEXAS										
BLONDY JHUNE ROAD BRIDGES										
WEST BRIDGE										
GABION WALL PLAN										
MI METROPOLITAN INFRASTRUCTURE, PLLC 10945 ESTATE LN, STE E225, DALLAS, TX, 75238 P.E. REGISTRATION NO. 6939 LUIS P. RANSBLE 68335 STATE OF TEXAS PROFESSIONAL ENGINEER CIVIL ENGINEERING MAY 27, 2016										

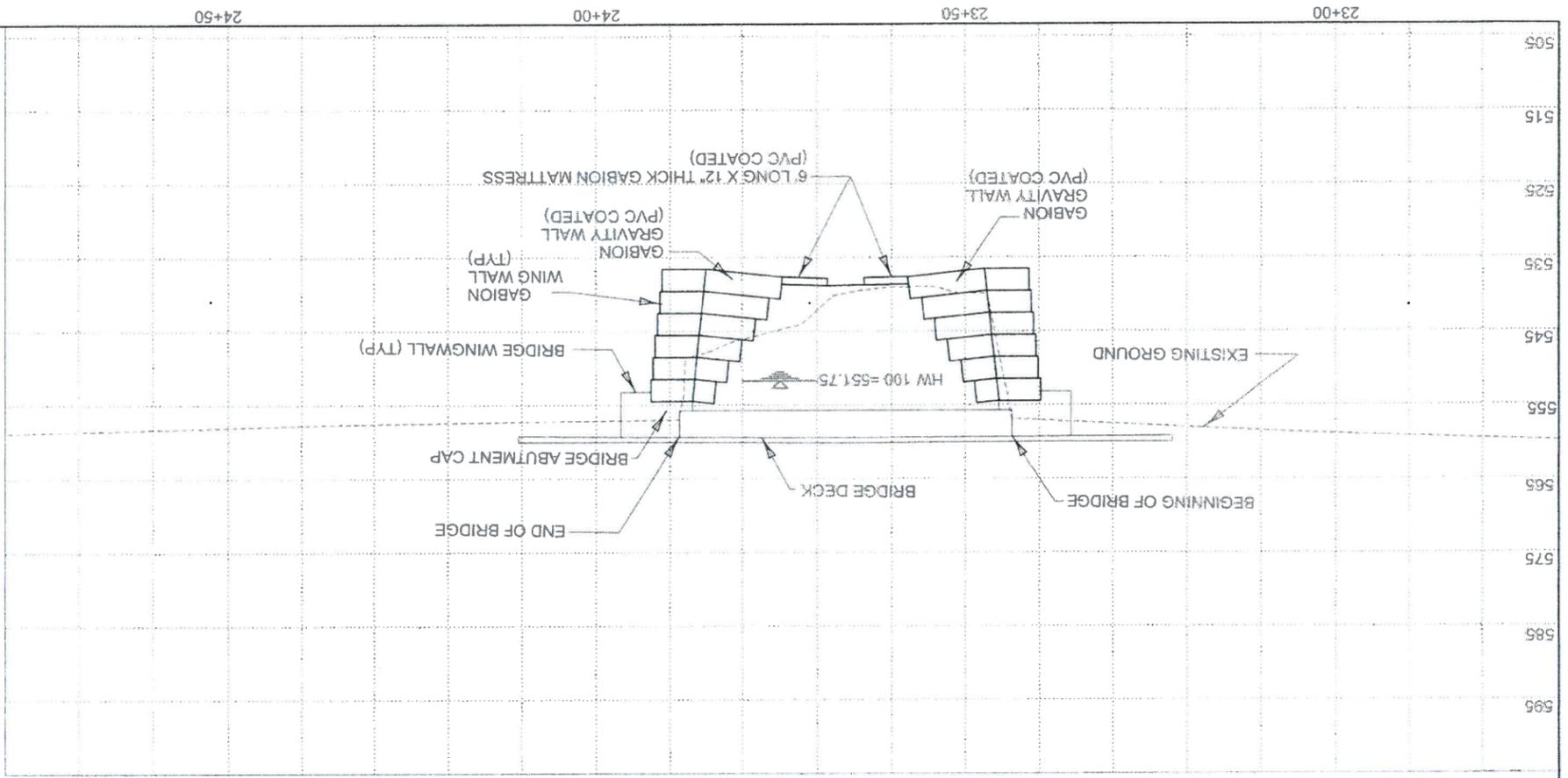
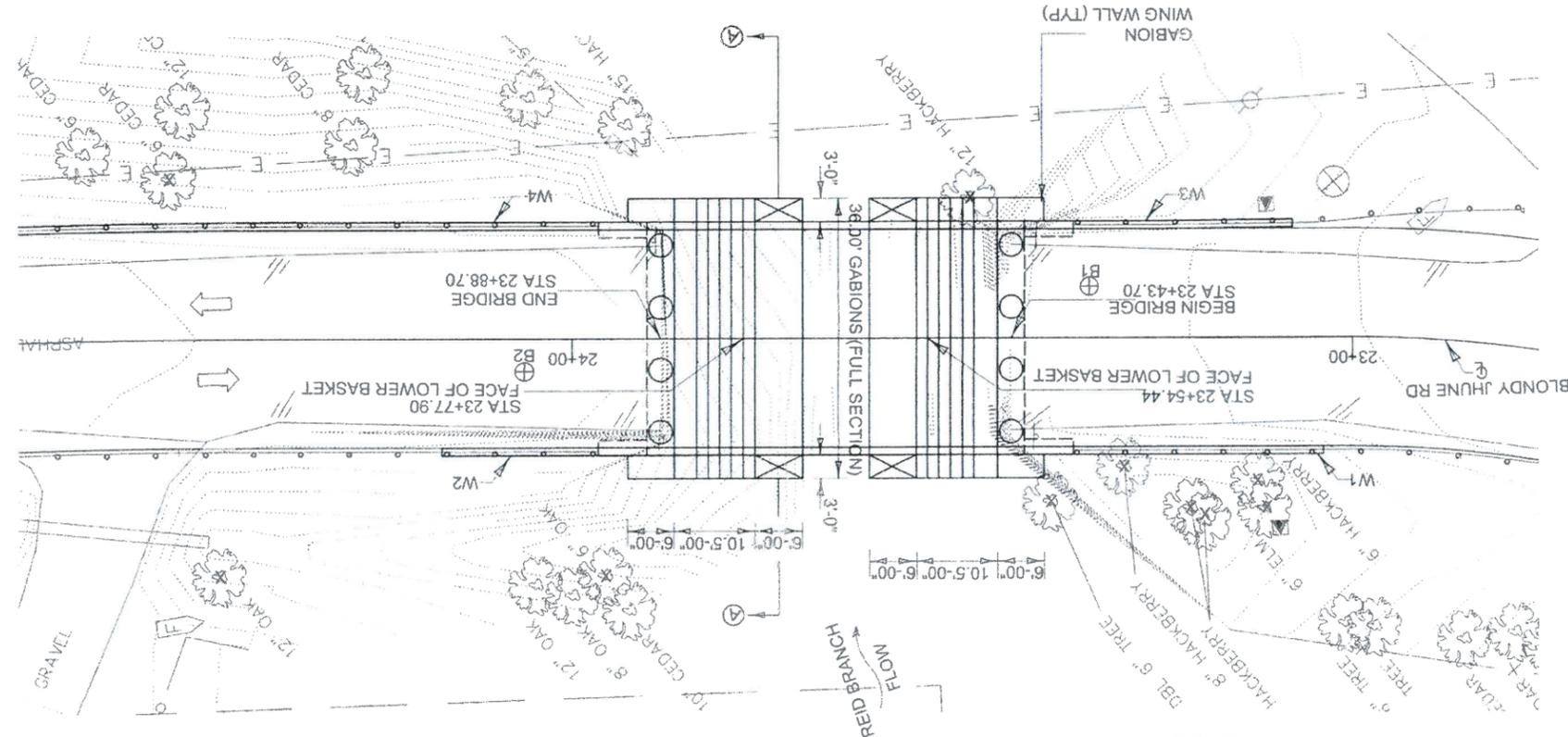
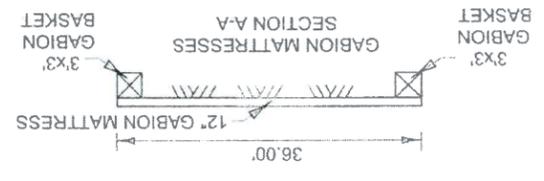
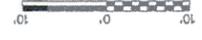


UTILITY LOCATION NOTE:
 The location of existing utilities shown on these plans are approximate and based on existing plans and data furnished by utility companies. It is the responsibility of the contractor to verify the location and depth of all existing utilities that may conflict with construction. Call 1-800-344-8377 two working days prior to construction for onsite locations. Any damage to existing utilities shall be repaired at contractor's expense, at no additional cost.

CALL BEFORE YOU DIG!
 TEXAS ONE CALL PARTNERS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST - STOP CALL
 Texas One Call System
 1-800-DIG-TESS

- NOTES:
- 1) REFERENCE BRIDGE AND RETAINING WALL LAYOUTS AND DETAILS
 - 2) FOR GEOTECHNICAL INFORMATION, REFER TO EMI REPORT #MI 153492 JUNE 2015.
 - 3) CONSTRUCTION AND MATERIALS MUST CONFORM TO CITY OF LUCAS AND TxDOT SPECIFICATIONS
 - 4) PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATIONS TO AVOID ANY CONFLICTS WITH WALLS.

SCALE: 1" = 10' (H AND V)



X TREE TO BE REMOVED

29	SHEET	NUMBER	FILE	DATE	DRWN	NO. 23
CITY OF LUCAS, TEXAS						
BLONDY JHUNE ROAD BRIDGES						
GABION WALL PLAN						
EAST BRIDGE						
M I METROPOLITAN INFRASTRUCTURE, PLLC						
FIRM REGISTRATION NO. 8939						
9601 WHITE ROCK TR. STE 204, DALLAS TX 75238						

DATE	DESCRIPTION
11/23/16	INCREASED GABION LENGTH



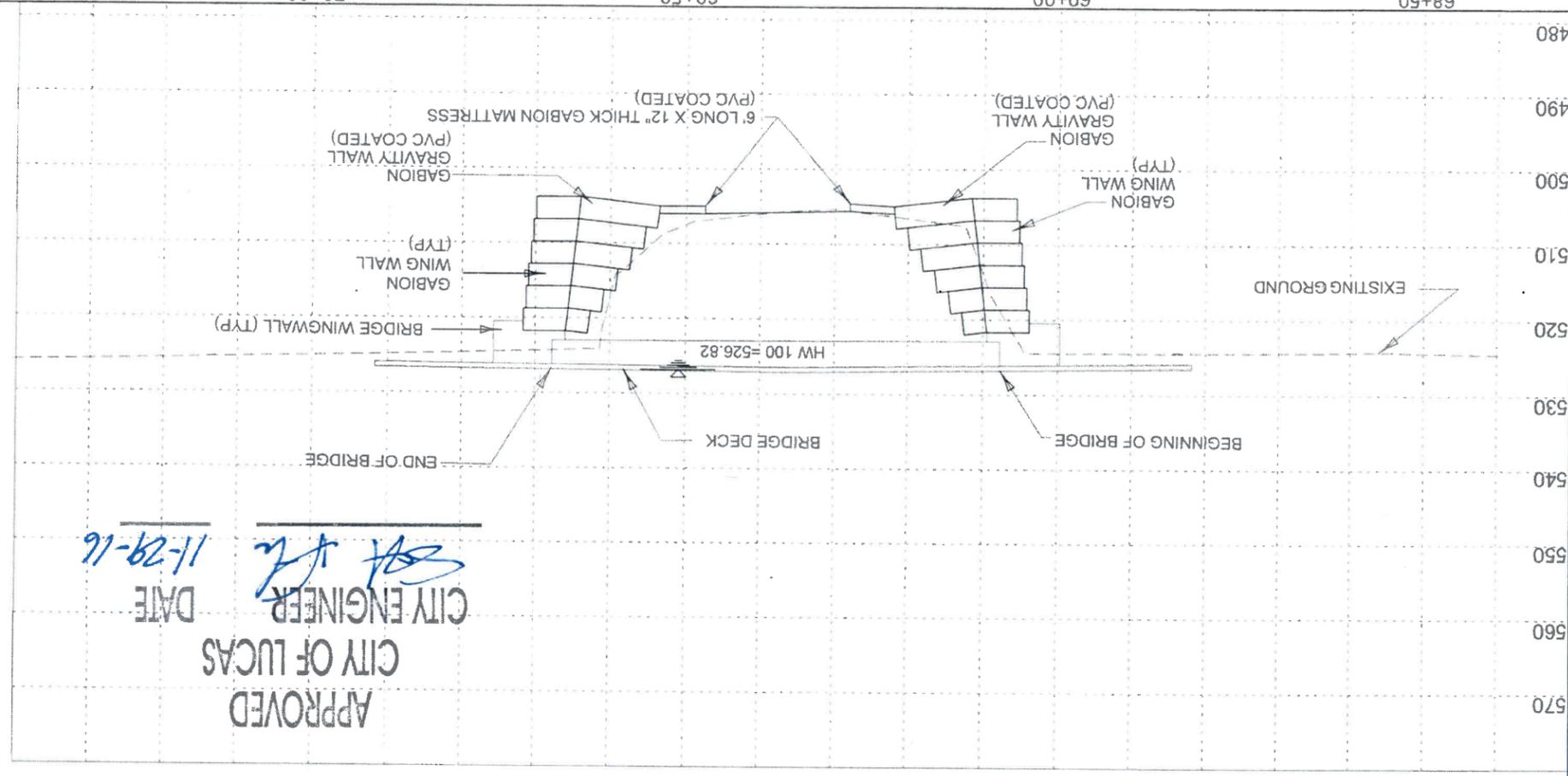
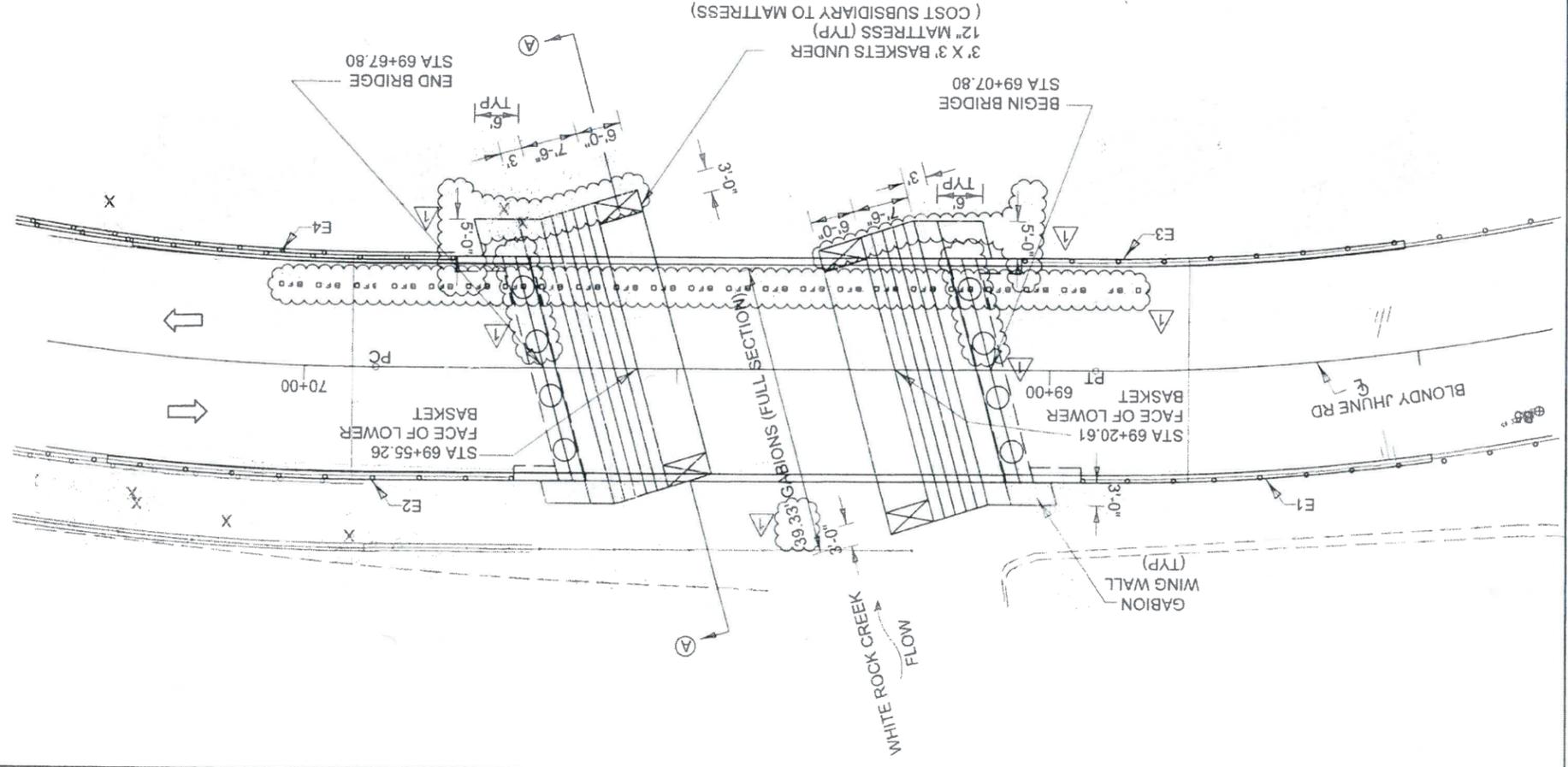
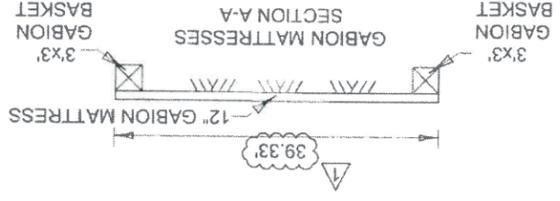
UTILITY LOCATION NOTE:
 The location of existing utilities shown on these plans are approximate and based on existing plans and data furnished by utility companies. It is the responsibility of the contractor to verify the location and depth of all existing utilities that may conflict with construction. Call 1-800-344-8377 two working days prior to construction for onsite locations. Any damage to existing utilities shall be repaired at contractor's expense, at no additional cost.

CALL BEFORE YOU DIG!
 TEXAS ONE CALL PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST - STOP CALL
 Texas One Call System
 1-800-DIG-TESS

SIGNED AND SEALED FOR REVISION 1 ONLY
 LAKES ENGINEERING, INC.
 1903 CENTRAL DRIVE, SUITE #405
 BEDFORD, TX 76021
 FIRM REGISTRATION NO.: F-15243
 CHRISTOPHER P. MESZLER
 P.E. LICENSE NO. 112052

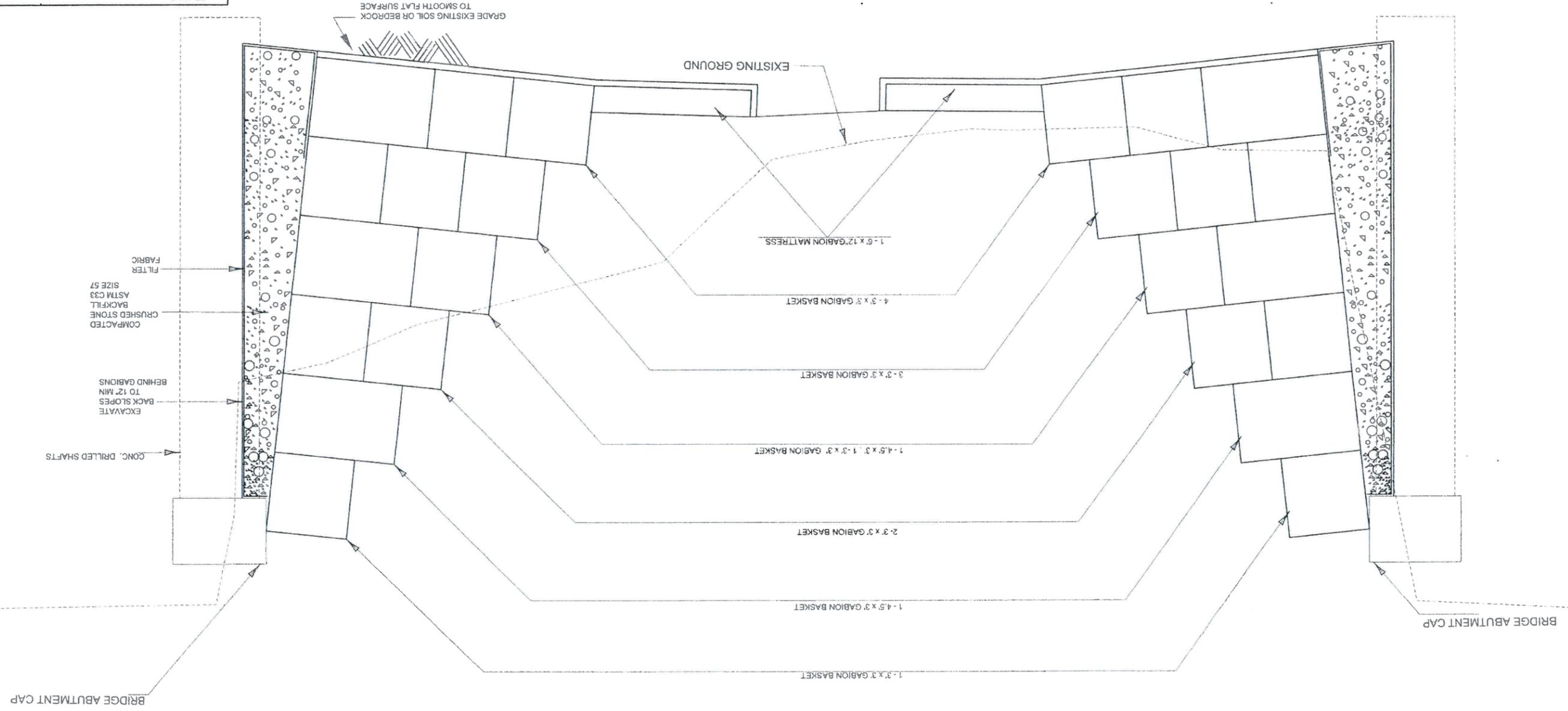
- NOTES:
- REFERENCE BRIDGE AND RETAINING WALL LAYOUTS AND DETAILS
 - FOR GEOTECHNICAL INFORMATION, REFER TO EMI REPORT #MI 153492 JUNE 2015.
 - CONSTRUCTION AND MATERIALS MUST CONFORM TO CITY OF LUCAS AND TxDOT SPECIFICATIONS
 - PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ALL EXISTING UTILITY RELOCATIONS TO AVOID ANY CONFLICTS WITH WALLS.

SCALE: 1" = 10' (H AND V)



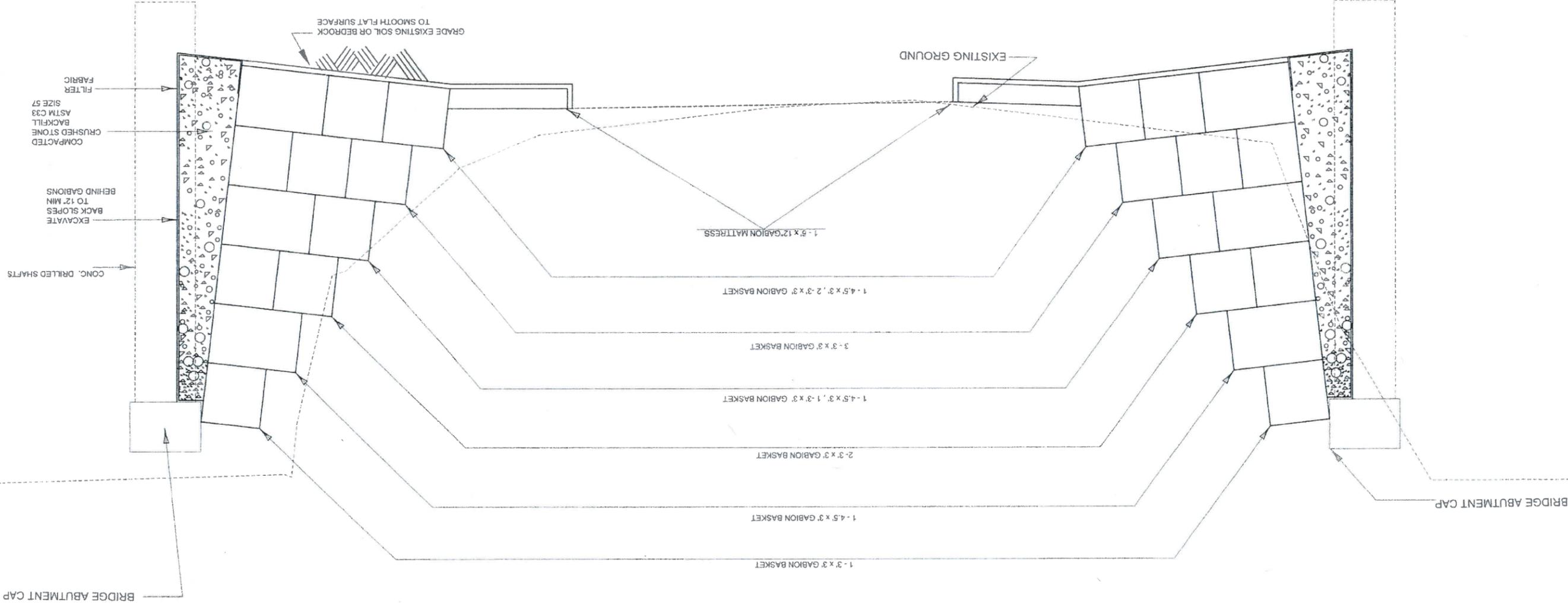
APPROVED
 CITY ENGINEER
 CITY OF LUCAS
 DATE 11-29-16

30					
SHEET	NUMBER	FILE	DATE	DESIGN	DATE
CITY OF LUCAS, TEXAS					
BLONDY JHUNE ROAD BRIDGES					
WEST BRIDGE					
GABION WALL SECTION					
M METROPOLITAN INFRASTRUCTURE, PLLC 10945 ESTATE LN, STE E225, DALLAS, TX, 75238 TEL (214) 341-1501, FAX (214) 341-1640 PRAJ REGISTRATION NO. 0039					



- NOTES:
- 1) ALL GABIONS SHALL BE PVC COATED.
 - 2) TURN ENDS OF WALLS INTO BANK AS REQUIRED TO MEET EXISTING GRADES.
 - 3) ALL GABIONS SHALL BE BATTERED BACK AT A SLOPE OF 6 DEGREES FROM VERTICAL.
 - 4) DO NOT PLACE FILTER FABRIC UNDER GABION BASKETS.

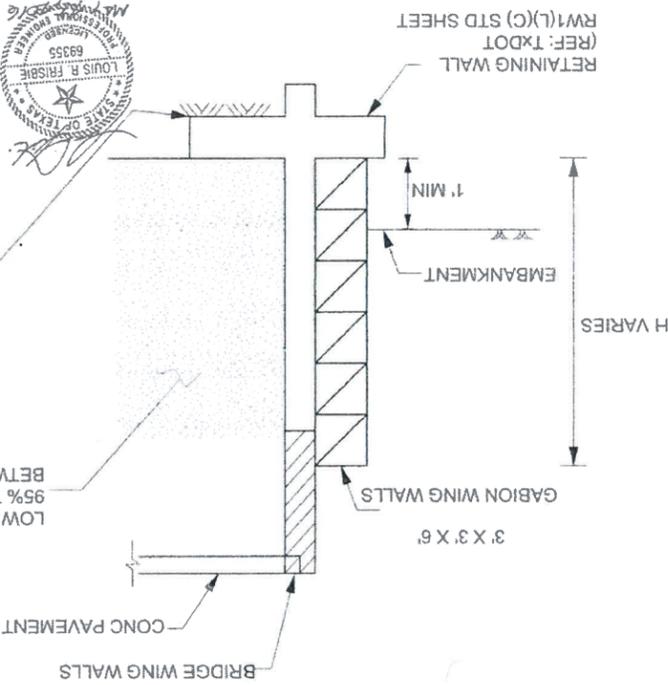
31					
DESIGN SHEET	FILE NUMBER	DATE	DRAWN	DATE	DATE
CITY OF LUCAS, TEXAS					
BLONDY JHUNE ROAD BRIDGES					
EAST BRIDGE					
GABION WALL SECTION					
M METROPOLITAN INFRASTRUCTURE, PLLC FIRM REGISTRATION NO. 8939 10945 ESTATE LN, STE E225, DALLAS, TX, 75238 TEL: (214) 341-1548					



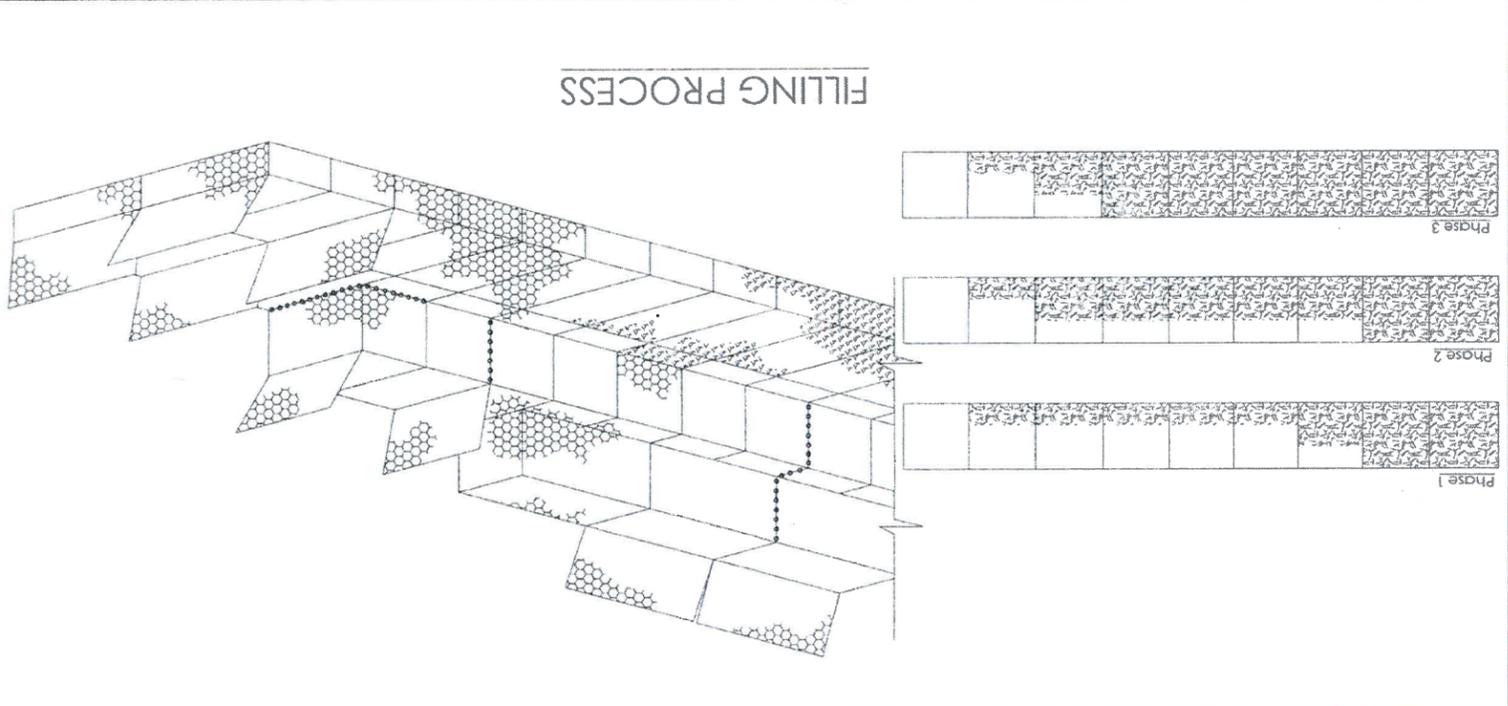
- NOTES
- 1) ALL GABIONS SHALL BE PVC COATED.
 - 2) TURN ENDS OF WALLS INTO BANK AS REQUIRED TO MEET EXISTING GRADES.
 - 3) ALL GABIONS SHALL BE BATTERED BACK AT A SLOPE OF 6 DEGREES FROM VERTICAL.
 - 4) DO NOT PLACE FILTER FABRIC UNDER GABION BASKETS.

32					
SHEET	NUMBER	FILE	DATE	DESIGN	DATE
CITY OF LUCAS, TEXAS					
BLONDY JHUNE ROAD BRIDGES					
GABION BASKET DETAILS					
MI METROPOLITAN INFRASTRUCTURE, PLLC 10945 ESTABLISH, STE E225, DALLAS, TX, 75238 FIRM REGISTRATION NO.: 6939					

GABION WING WALLS

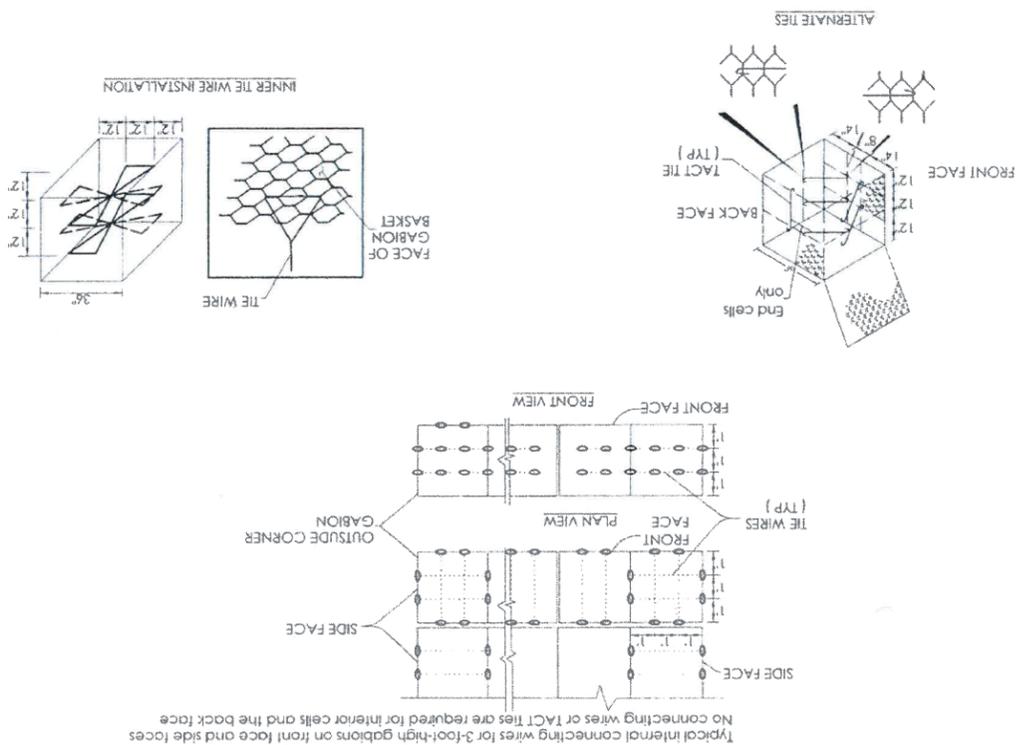


BRIDGE WING WALLS
 CONG PAVEMENT
 95% TO 100% OF MAX DENSITY (ASTM D 968)
 BETWEEN +/- 2% OF OPTIMUM MOISTURE CONTENT
 GRADE EXIST SOIL OR BEDROCK TO
 SMOOTH FLAT SURFACE

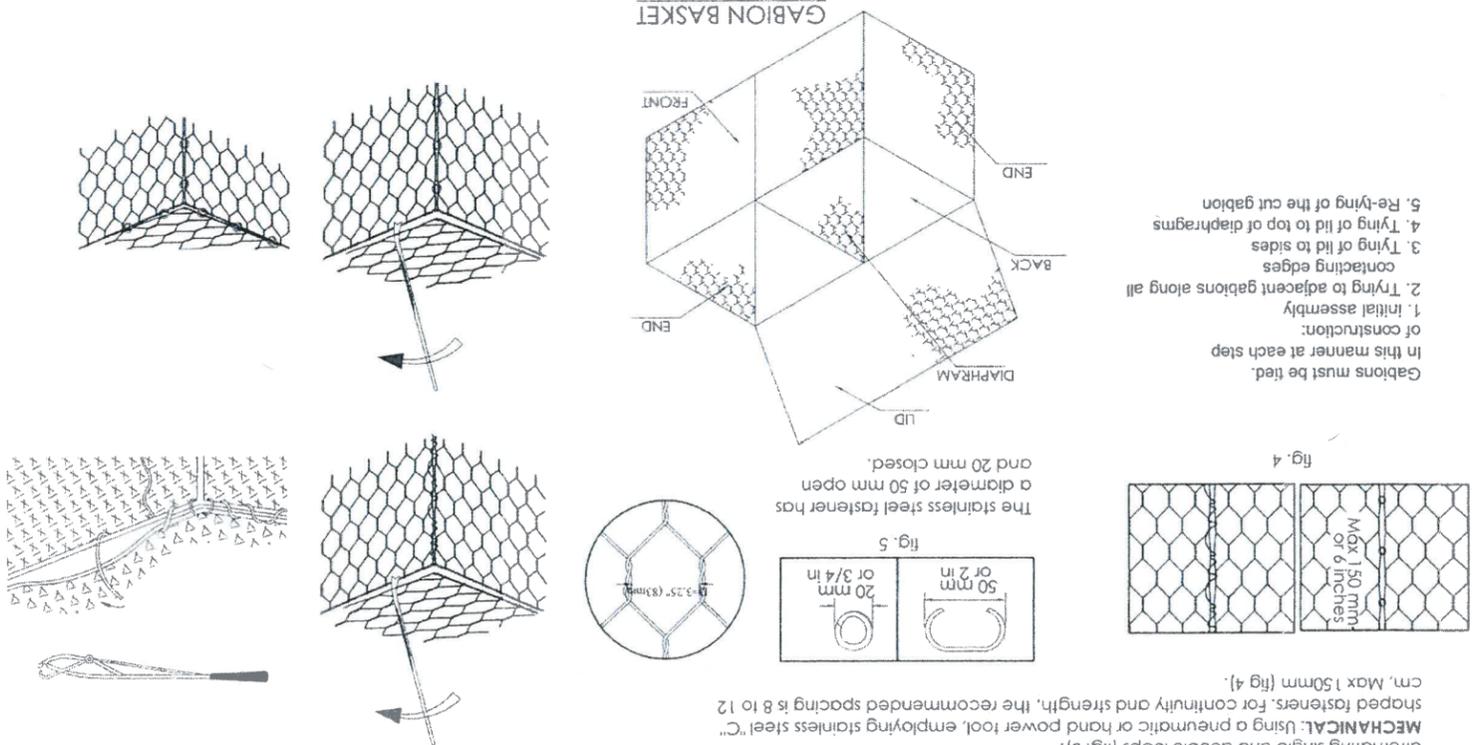


FILLING PROCESS

CROSS BRACING



GABION TYING & CLOSING PROCESS



- 1. Initial assembly of construction;
- 2. Tying to adjacent gabions along all contacting edges
- 3. Tying of lid to sides
- 4. Tying of lid to top of diaphragms
- 5. Re-tying of the cut gabion

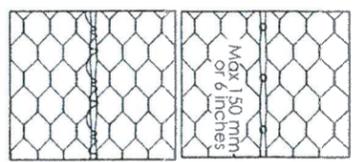
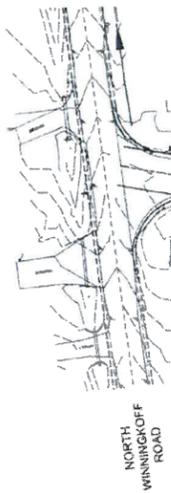


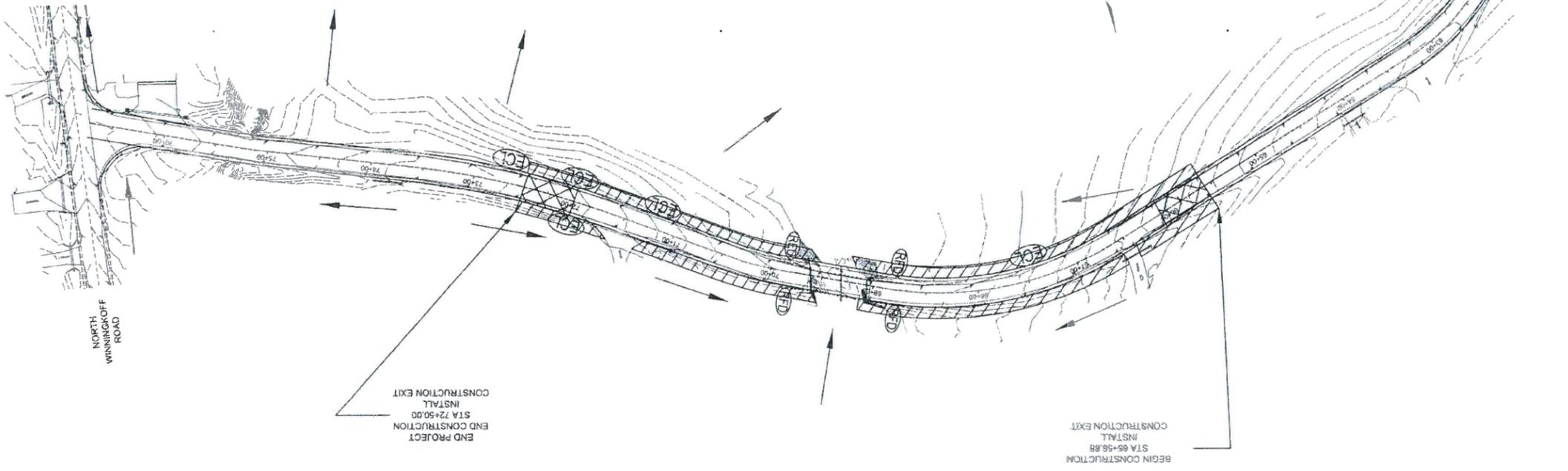
fig. 4

fig. 5

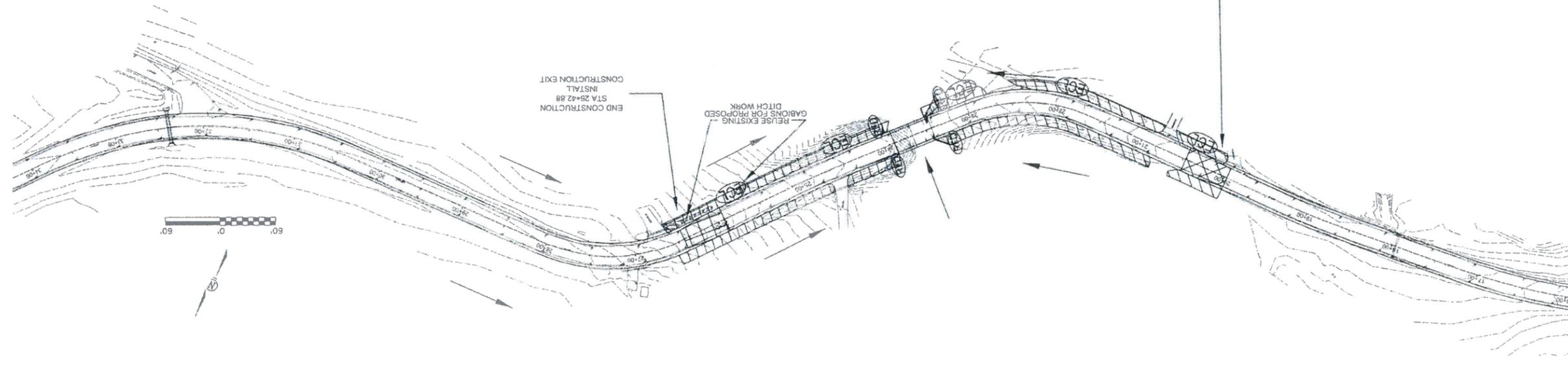
33									
SHEET	NUMBER	FILE	DATE	DRAWN	DESIGN	UPF	JCA	REV	DATE
EROSION CONTROL PLAN									
WEST AND EAST									
BRIDGE SECTIONS									
BLONDY JHUNE ROAD BRIDGES									
CITY OF LUCAS, TEXAS									
M1 METROPOLITAN INFRASTRUCTURE, PLLC									
10945 ESTATE LN, STE 2225, DALLAS, TX, 75238									
FIRM REGISTRATION NO. 6939									



EAST APPROACH



WEST APPROACH



- LEGEND
- 18" EROSION CONTROL LOG
 - TY 2 ROCK FILTER DAM
 - STORM INLET PROTECTION
 - DIRECTION OF FLOW
 - SEDIMENT CONTROL FENCE
 - PERMANENT SEEDING
 - STABILIZED CONSTR. ENTRANCE/EXIT TY 1

PART III, SEC. A - SHARED SWPPP DEVELOPMENT

1. CONTRACTOR (Operator in charge of SWPPP day-to-day implementation)

Name:
Address:
Contact:
Phone:
TECO Authorization No.:

OWNER

Name:
Address:
Contact:
Phone:
TECO Authorization No.:

2. OPERATOR'S RESPONSIBILITIES:

CONTRACTOR

- Submit Contractor's Notice of Intent (NOI) and appropriate fee to TECO.
Post and maintain a copy of the Contractor's NOI and Construction Site Notice (CSN).
Update the SWPPP sheet to match contractor's means and methods by providing the following information on the page:

Contractor's name and contact information
Dates NOI were submitted and TECO authorization numbers
Update the Description/Phasing of Land Disturbing Activity as needed

Provide a copy of weekly inspection reports to the owner.
Perform SWPPP inspections in accordance with the TPDES General Permit and keep copies of locations of concrete washout areas, etc.

Establish Permanent Notice of Termination (NOT) to TECO and a copy to all receiving MS4 Operators
Maintain structural BMPs as necessary and provide additional BMPs if required to control erosion

Submit Contractor's Notice of Termination (NOT) to TECO and a copy to all receiving MS4 Operators
Maintain contractor's SWPPP records for three years in accordance with the TPDES General Permit.

Submit Owner's Notice of Intent (NOI) and appropriate fee to TECO.
Provide Contractor with copy of Owner's NOI and CSN and insert copy with SWPPP records.

Perform SWPPP inspections in accordance with the TPDES General Permit and keep copies of inspection reports with SWPPP. List of qualifications for the inspectors are to be kept with the inspection reports.

Authorize changes to the SWPPP as necessary to control storm water pollutants.
Submit Owner's Notice of Termination (NOT) to TECO and a copy to all receiving MS4 Operators at project completion.

Describe the Phasing of Land Disturbing Activity.
Provide 4.4 acres of site grading, 1 new single story structure, pavement for parking and access, drainage pipes & inlets, 12" water main lines, 8" waste water main line.

Other Required Controls
Permit, Pipe Outlet Velocity Controls
Concrete & Lubricants, Vehicle operations, refueling and maintenance.

Raw Sewage, Improper collection & disposal of human waste.
Fertilizer, Improper application or spills when used on seeded or sodded areas.

Hyperchlorinated Water, Improper discharge from new water lines.
Hydrated Lime, Pavement sub-grade stabilization operations.

Waste Concrete, Mixer or transport washouts.
Concrete Curing Compound, Pavement finishing operations.

Portland Cement, Stored on site for concrete batch plant operations.
Fly Ash, Stored on site for concrete batch plant operations.

Paints & Solvents, Exterior painting operations.
Boring Mud, Waste from horizontal or vertical drilling operations.

Sand Blasting Grt, Improper collection of waste from sand blasting.
Sand Blasting, Waste from horizontal or vertical drilling operations.

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PART III, SEC. F.1:4 CONSTRUCTION SUPPORT ACTIVITIES

Personnel Each Operator shall provide inspection personnel that are knowledgeable of the TPDES General Permit, familiar with the construction site, and knowledgeable with the SWPPP for the site.

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

RECEIVING WATERS: The following indicated streams receive storm water runoff from this construction site:
White Rock Creek
Reid Branch Tributary
East Fork of Trinity River/Lake Lavon

TPDES GENERAL PERMIT A copy of the current TPDES General Permit is bound in the Contract Bid Manual, and/or is included by reference herewith.

NOTICE OF INTENT A copy of the Notice of Intent for the owner and the project contractor are a part of the SWPPP and shall be kept with the site inspection reports for the project. Copies of both shall be posted and maintained at the construction site. A copy of the acknowledgment certificates when received by each Operator shall be kept with the inspection report records.

BEST MANAGEMENT PRACTICES (BMPs) The BMPs indicated below are to be used on this project where shown on the Detailed Site Maps

Inspection Reports: A report summarizing the scope of the inspection, the date of the inspection, and major observations relating to the implementation of the SWPPP must be made and retained as part of the SWPPP. Major observations should include: The locations of discharges of sediment or other pollutants from the site, locations of BMPs that failed to operate as designed or proved inadequate for a particular location, and locations where additional BMPs are needed

Actions taken as a result of inspections must be described within, and retained as a part of, the SWPPP. Reports must identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report must contain a certification that the site is in compliance with SWPPP and the TPDES General Permit.

The certification on the inspection reports that are in full compliance shall be as follows:
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign this document and can provide documentation in proof of such authorization upon request. SIGNATURE DATE

Certifications on inspection reports may be signed by an authorized inspector when the site is in full compliance with the TPDES General Permit. Revisions to the SWPPP must be completed within seven (7) calendar days following the inspection or sooner if directed by the City. If existing BMPs are modified or if additional BMPs are necessary, these changes shall be implemented whenever possible, before the next storm event. If implementation before the next anticipated storm event is impracticable, these changes must be implemented as soon as practicable.

CONCRETE BATCH PLANTS Discharges of storm water runoff from concrete batch plants are not covered under this general permit. If used on this project, the Contractor must have discharges authorized under an alternative general permit or an individual permit for his concrete batch plant operations.

CONCRETE TRUCK WASH OUTS The TPDES General Permit authorizes the wash out at the construction site of concrete trucks for this project that are associated with off-site production facilities. The direct discharge of wash out water to surface water out areas on the SWPPP site maps for this project.

WATER USE RESTRICTIONS Local water use restrictions in response to drought conditions can affect the ability of permittees to establish permanent ground cover which is required prior to their permit termination. The TPDES General Permit allows modifications to the BMPs used and the inspections interval under these circumstances.

The City of Lucas has not implemented water use restrictions prior to the start of construction on this project. The City of Lucas implemented water use restrictions during the construction of this project.

The City of Lucas implemented water use restrictions prior to the start of construction on this project. The City of Lucas implemented water use restrictions during the construction of this project.

Other Required Controls
Permit, Pipe Outlet Velocity Controls
Concrete & Lubricants, Vehicle operations, refueling and maintenance.

Raw Sewage, Improper collection & disposal of human waste.
Fertilizer, Improper application or spills when used on seeded or sodded areas.

Hyperchlorinated Water, Improper discharge from new water lines.
Hydrated Lime, Pavement sub-grade stabilization operations.

Waste Concrete, Mixer or transport washouts.
Concrete Curing Compound, Pavement finishing operations.

Portland Cement, Stored on site for concrete batch plant operations.
Fly Ash, Stored on site for concrete batch plant operations.

Paints & Solvents, Exterior painting operations.
Boring Mud, Waste from horizontal or vertical drilling operations.

Sand Blasting Grt, Improper collection of waste from sand blasting.
Sand Blasting, Waste from horizontal or vertical drilling operations.

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PHASE 1: Install Initial Erosion Control
PHASE 2: Clearing and Grubbing
PHASE 3: U.G. Utility and Installation
PHASE 4: Paving Operations
PHASE 5: Building Construction
PHASE 6: Landscaping & Cleanup

PART III, SEC. F.1:3 PERMANENT STORM WATER CONTROLS

approved site plans including protected tree areas.

For each item selected the design engineer shall provide written documentation including why a sediment basin cannot be installed on the site and a copy of this documentation shall be included with the inspection report records for the project. Supporting documentation may include soils reports, topographic maps and approved site plans including protected tree areas.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas has been prepared in accordance with the City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

PART II, SEC. E.3(a) MSA OPERATOR NOTIFICATIONS

The following MSA Operators indicated have received or will receive a copy of all Notices of Intent, Notices of Termination and any Notices of Change for this project:

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

City of Lucas
Public Works Department
665 Country Club Road
Lucas, TX 75002
ATTN: Director of Public Works

PART III, SEC. F.1:7 INSPECTIONS OF CONTROLS

Personnel Each Operator shall provide inspection personnel that are knowledgeable of the TPDES General Permit, familiar with the construction site, and knowledgeable with the SWPPP for the site.

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

CONTRACTOR:
INSPECTOR(S):
COMPANY:
PHONE:

PART III, SEC. F.1:5 MAINTENANCE REQUIREMENTS

All erosion and sediment control measures and other protective measures identified in this SWPPP must be maintained in effective operating condition. If through inspections measures are identified that are not being maintained, the Operator shall be notified immediately upon discovery.

For each item selected the design engineer shall provide written documentation including why a sediment basin cannot be installed on the site and a copy of this documentation shall be included with the inspection report records for the project. Supporting documentation may include soils reports, topographic maps and approved site plans including protected tree areas.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.

City of Lucas's requirements. Any updates or revisions to the SWPPP must remain in compliance with federal, state or local approved plans applicable to protecting surface water resources.