

NOTES:

1. PROPOSED PRELIMINARY RIGHT OF WAY AS SHOWN ON PLAN, OBTAINED FROM SDOT HIGHWAYS DIVISION PRELIMINARY RIGHT-OF-WAY MAP
- KIHEI/UPCOUNTRY HIGHWAY (SUBJECT TO CHANGE)

APPROXIMATE EARTHWORK QUANTITIES

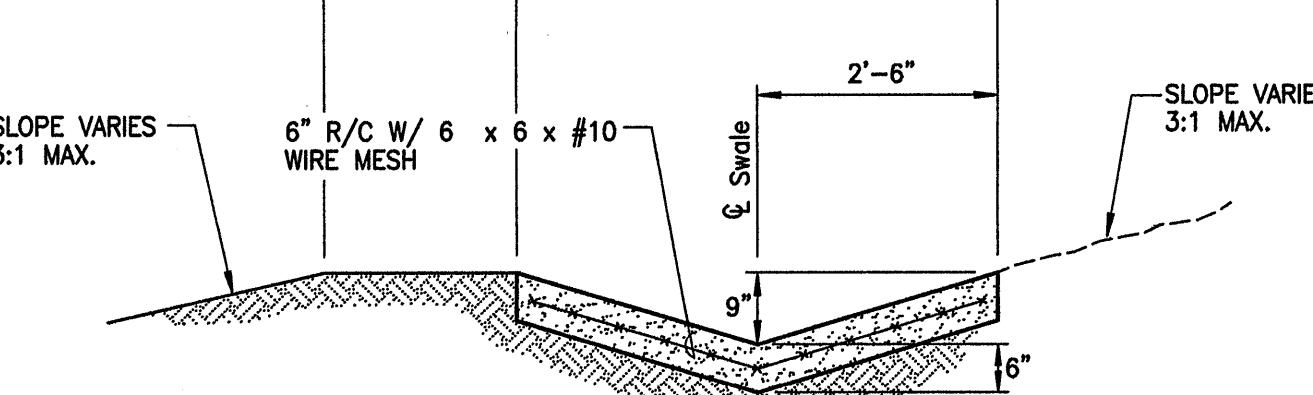
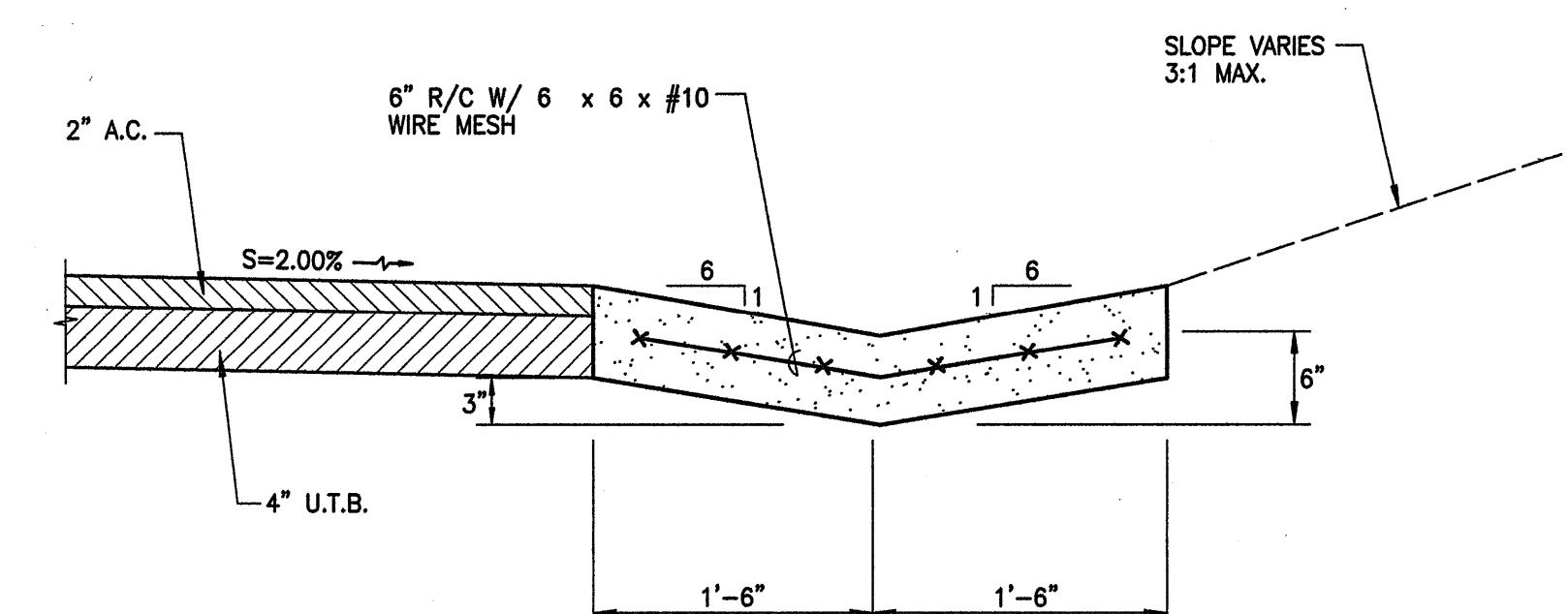
**EXCAVATION = 7,109 CU.YD.
EMBANKMENT = 1,257 CU YD.**

DETAIL - 3'-0" WIDE PERIMETER SWALE

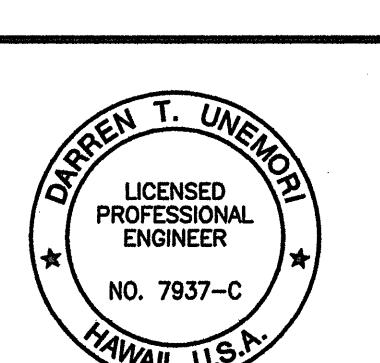
SCALE: 1" = 1'-0"

5 FT. WIDE CONCRETE DIVERSION SWALE

SCALE: 1/2" = 1'-0"



LETTER	DESCRIPTION	DATE
10	Revised Per DWS Comments	01/06/12
8	Outflow Waterline Upsized to 16"	10/06/11
6	Relocated Outlet Structure; Added Standpipe, Type "A" Manholes, and A.C. Pavement; Extended Swale and Concrete Lined	10/01/10
4	Revised Per DWS Comments Added Tank Control Valve	12/12/08



The logo for Warren S. Unemori Engineering, Inc. It features a stylized graphic on the left composed of three vertical bars of increasing height, followed by the company name "WARREN S. UNEMORI ENGINEERING, INC." in a bold, sans-serif font. Below the name, it says "CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS". At the bottom, it provides the address "WELLS STREET PROFESSIONAL CENTER, SUITE 403".

AONOULU MARKET PLACE
T.M.K.: (2) 3-9-01 : 16
KIHEI MAUI HAWAII

THE SITE PLAN - 10 MG WATER TANK

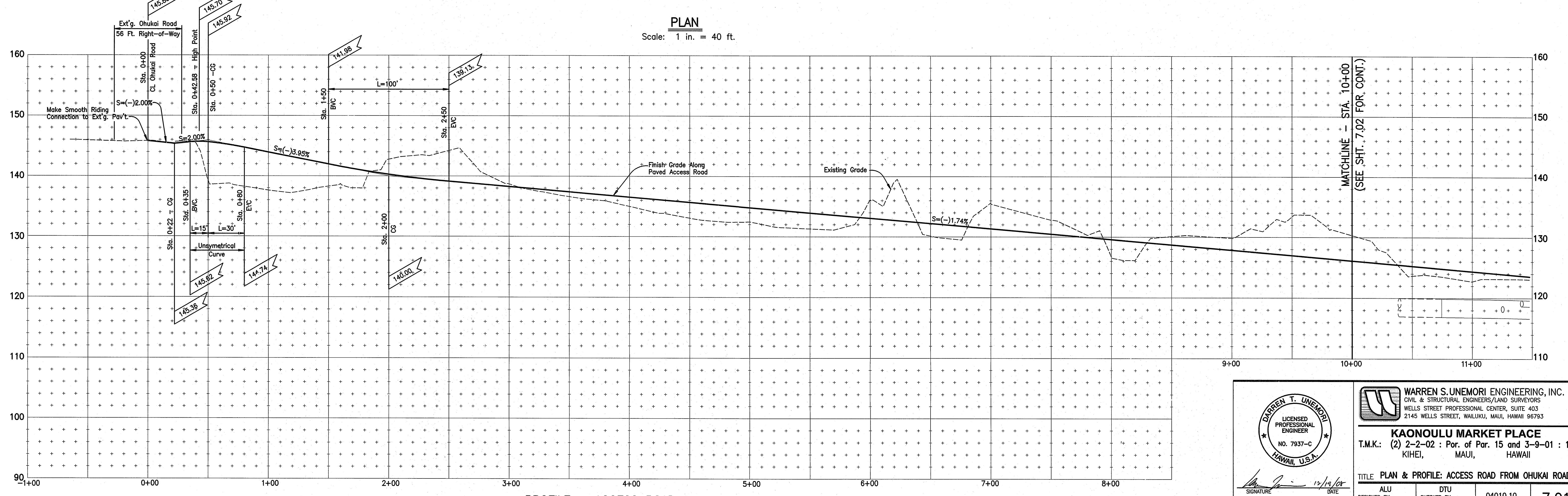
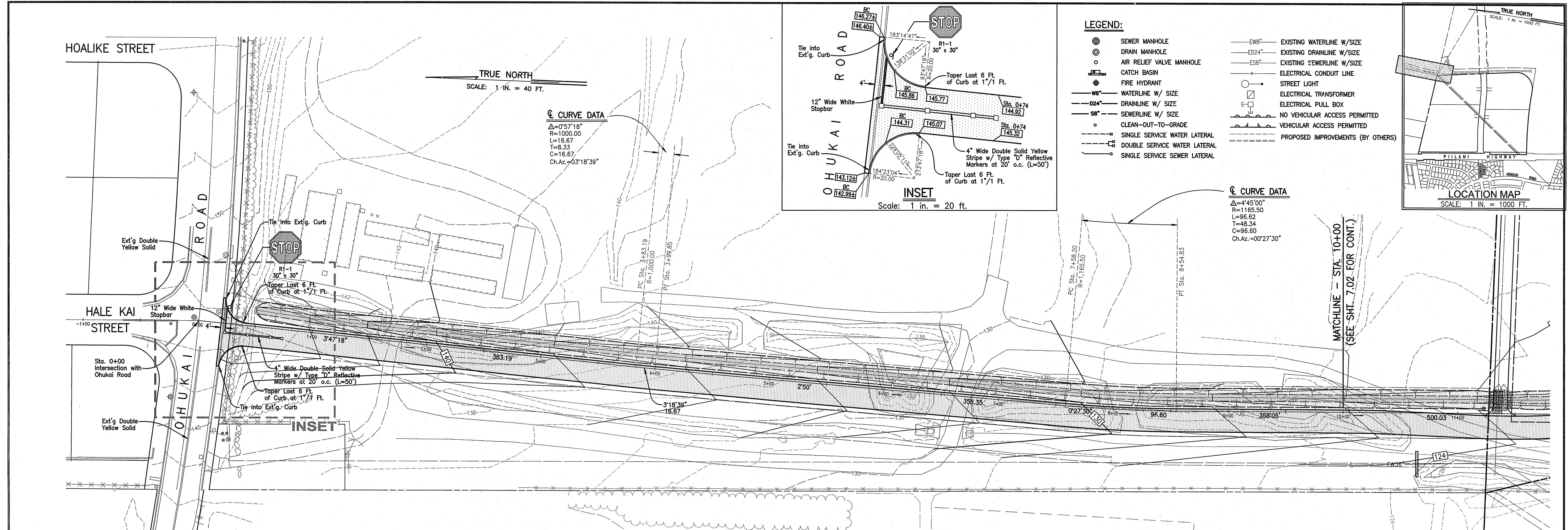
RTU RTU

SIGNED BY	DKO CHECKED BY	04010.10	6.
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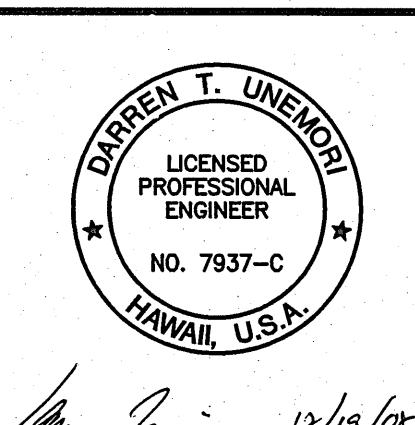
WIS DRAWN BY	DTU APPROVED BY	JOB NUMBER	SHEET
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1 in. = 20 ft. 10-10-05 DATE OF

6.24



04010.10 / dwg2004 / complans / pl-acc-ohukai.dwg



The logo consists of a stylized letter 'W' composed of two thick, curved lines forming a V-shape, enclosed within a square frame with a dotted border.

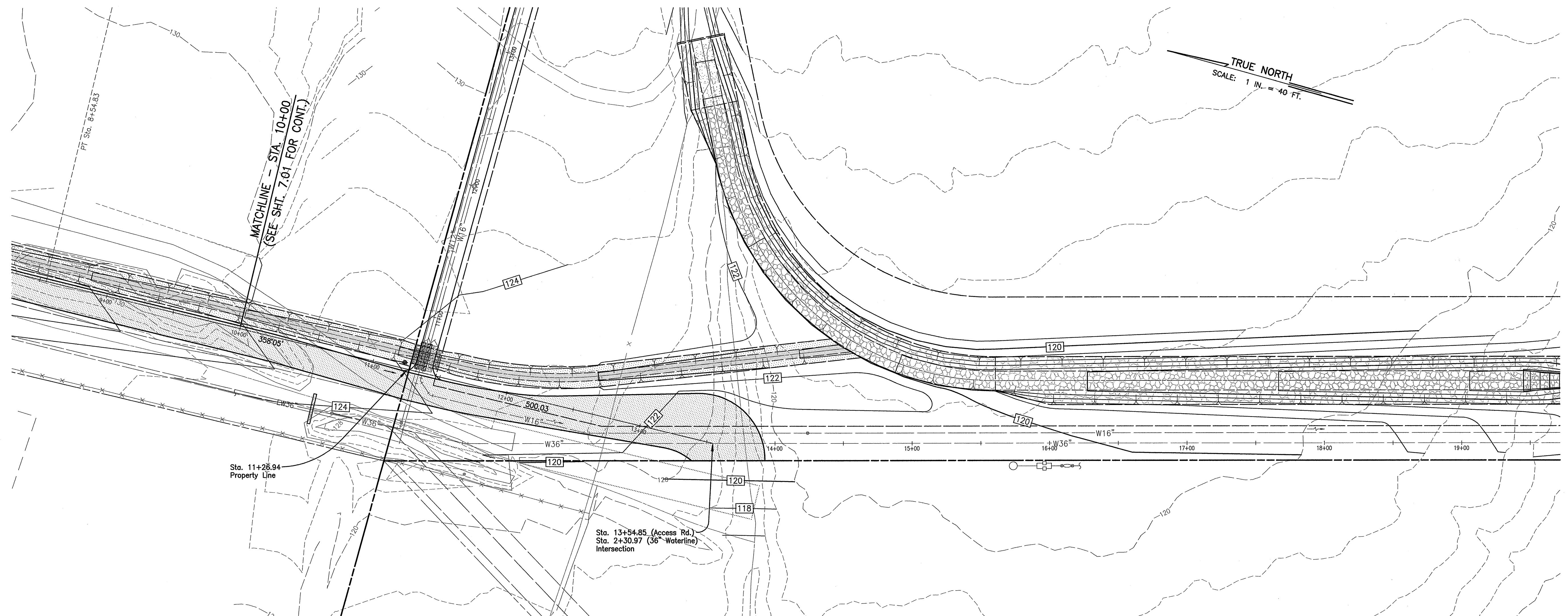
KAONOULU MARKET PLACE

T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16
KIHEI, MAUI, HAWAII

TITLE PLAN & PROFILE: ACCESS ROAD FROM OHUKAI ROAD			
ALU	DTU	04010.10	7.01
DESIGNED BY	CHECKED BY		

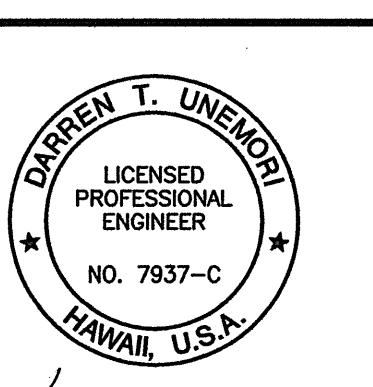
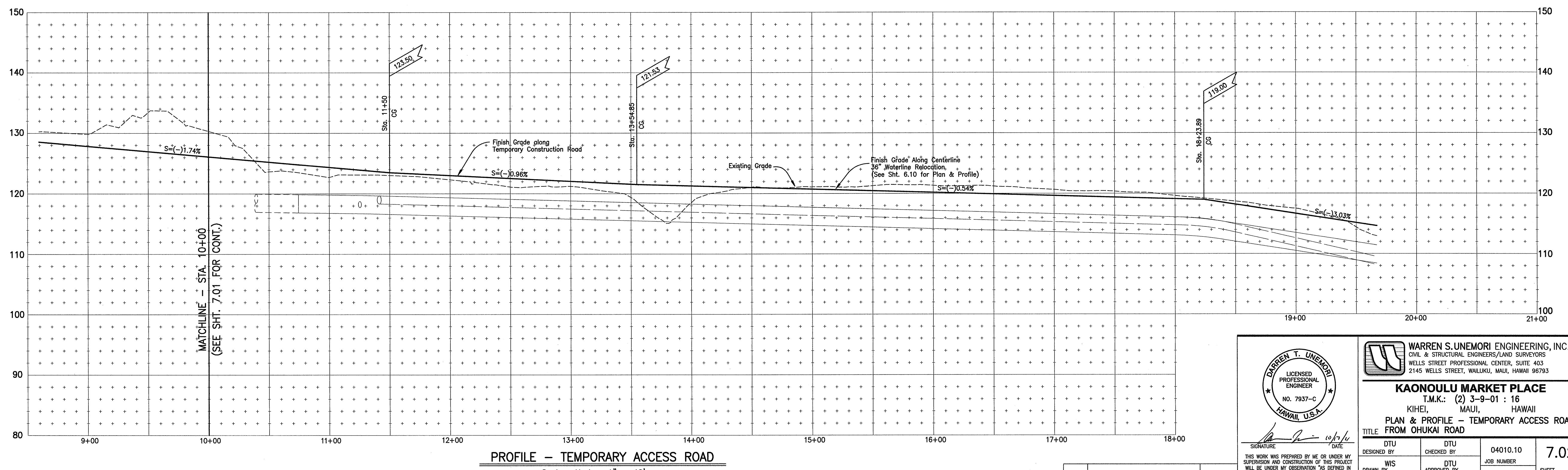
DESIGNED BY	CHECKED BY	0-0-0-10	7.01
WIS DRAWN BY	DTU APPROVED BY	JOB NUMBER	SHEET
		10-10-05	
SCALE 1 in. = 40 ft.		DATE	REVISIONS

SIGNATURE	DATE	ALU DESIGNED BY	DTU CHECKED BY	04010.10	7.01
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION "AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS"		WIS DRAWN BY	DTU APPROVED BY	JOB NUMBER	
		SCALE 1 in. = 40 ft.		10-10-05	SHEET



PLAN

Scale: 1 in. = 40 ft.



WARREN S. UNEMORI ENGINEERING, INC.
CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS
WELLS STREET PROFESSIONAL CENTER, SUITE 403
2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAONOULU MARKET PLACE

I.M.K.: (2) 3-9-01 : 16
KIHEI, MAUI, HAWAII
PLAN & PROFILE - TEMPORARY ACCESS ROAD

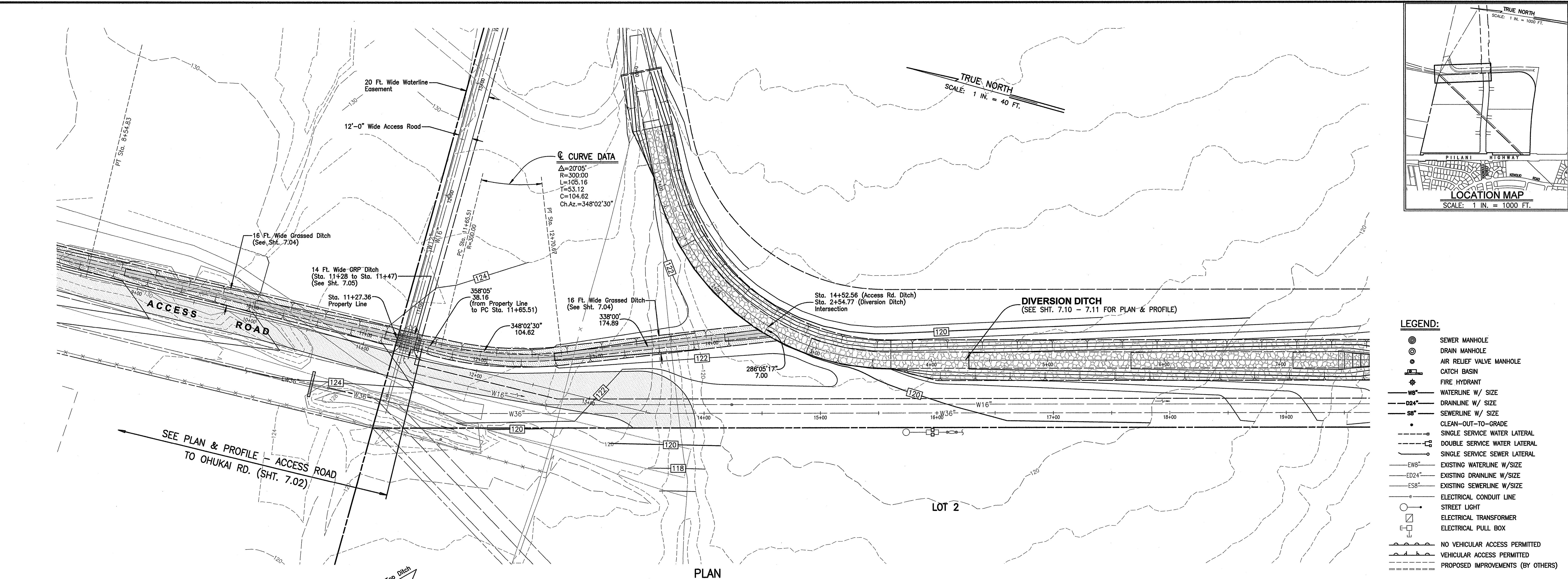
FROM OHUKAI ROAD

DIO GNED BY	DIO CHECKED BY	04010.10	7.0
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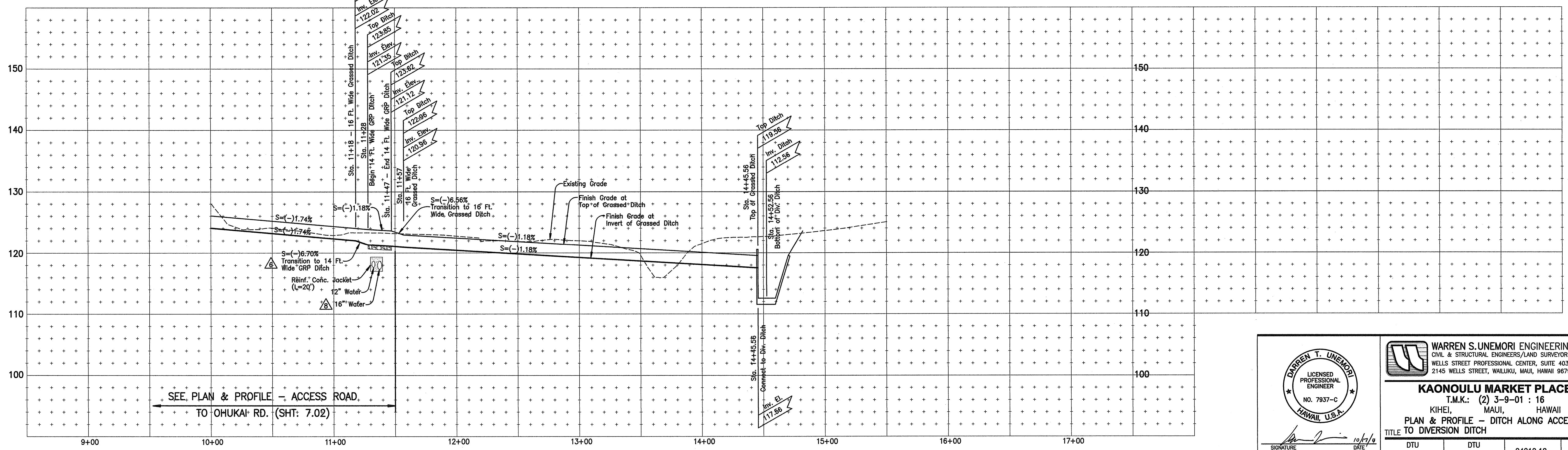
WIS VN BY	DTU APPROVED BY	JOB NUMBER	SHEET
		10-10-05	

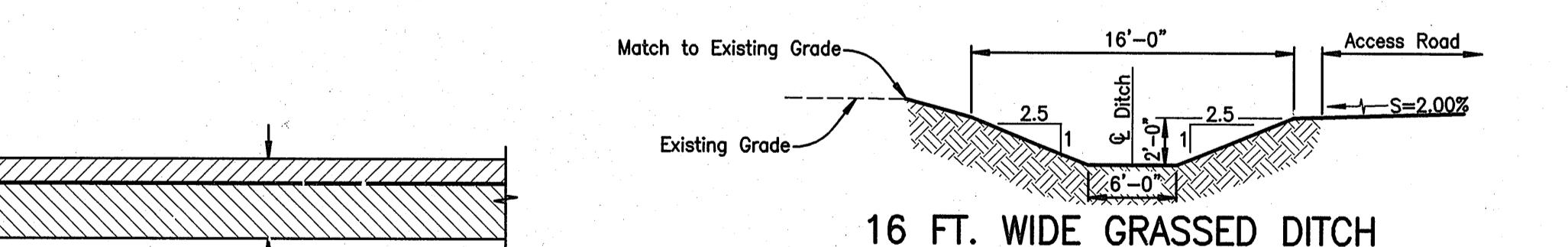
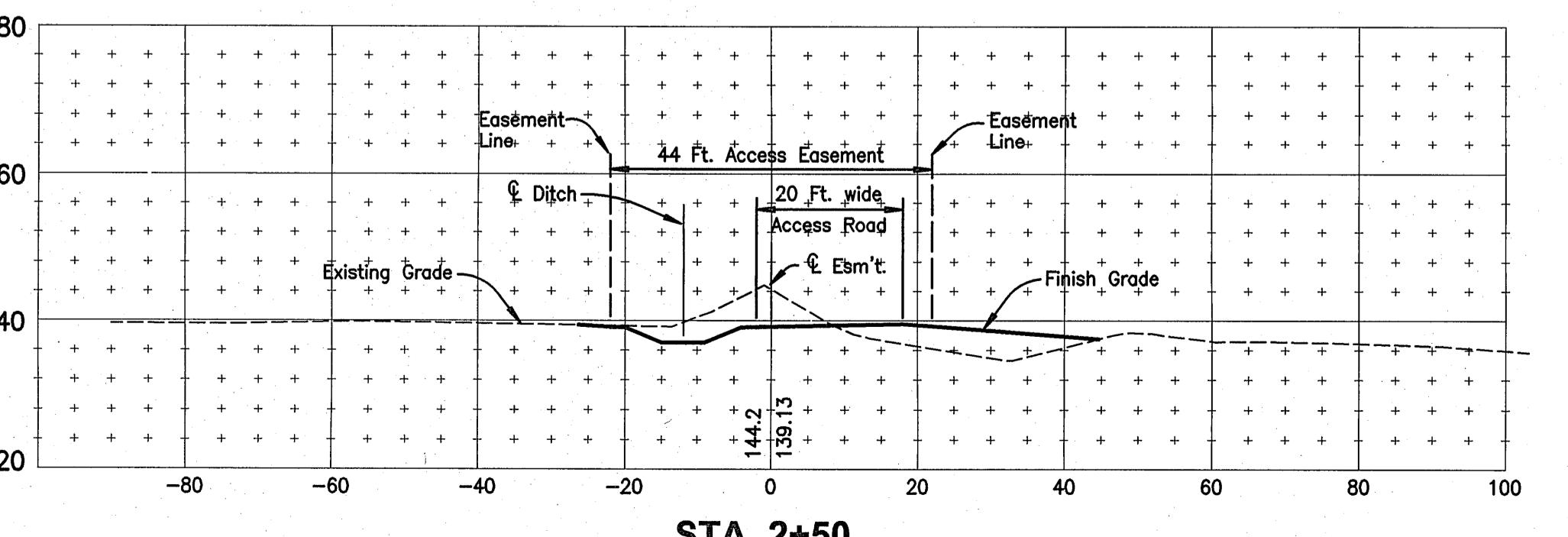
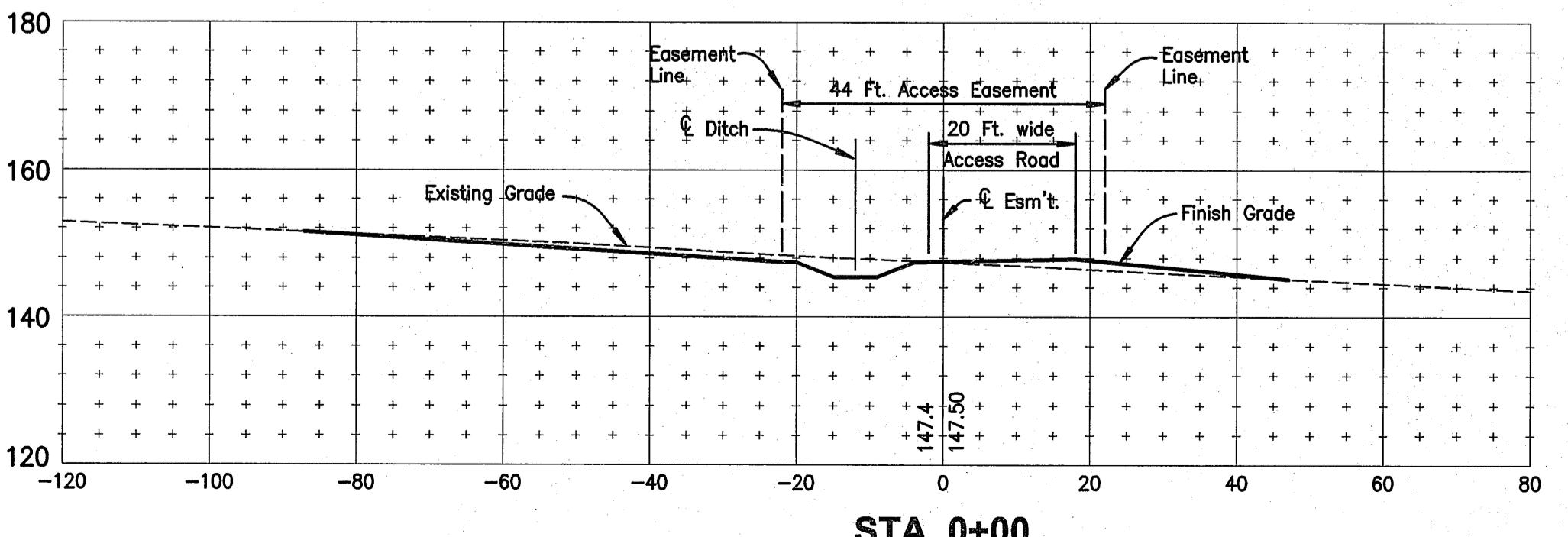
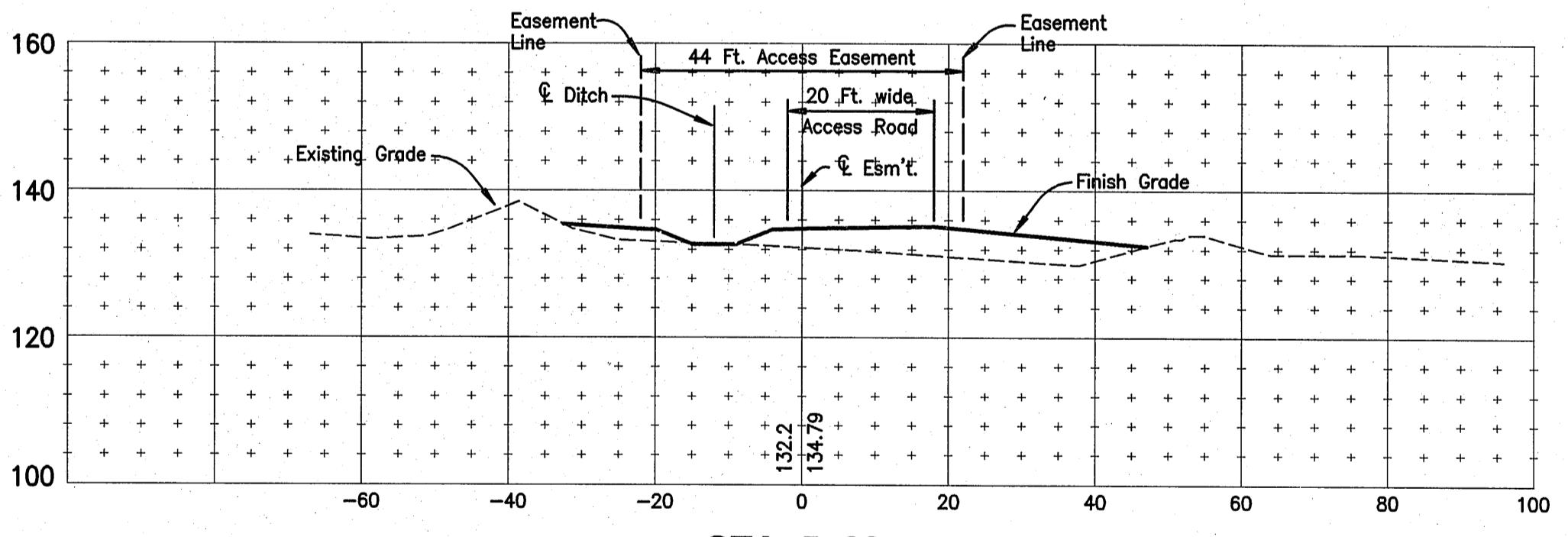
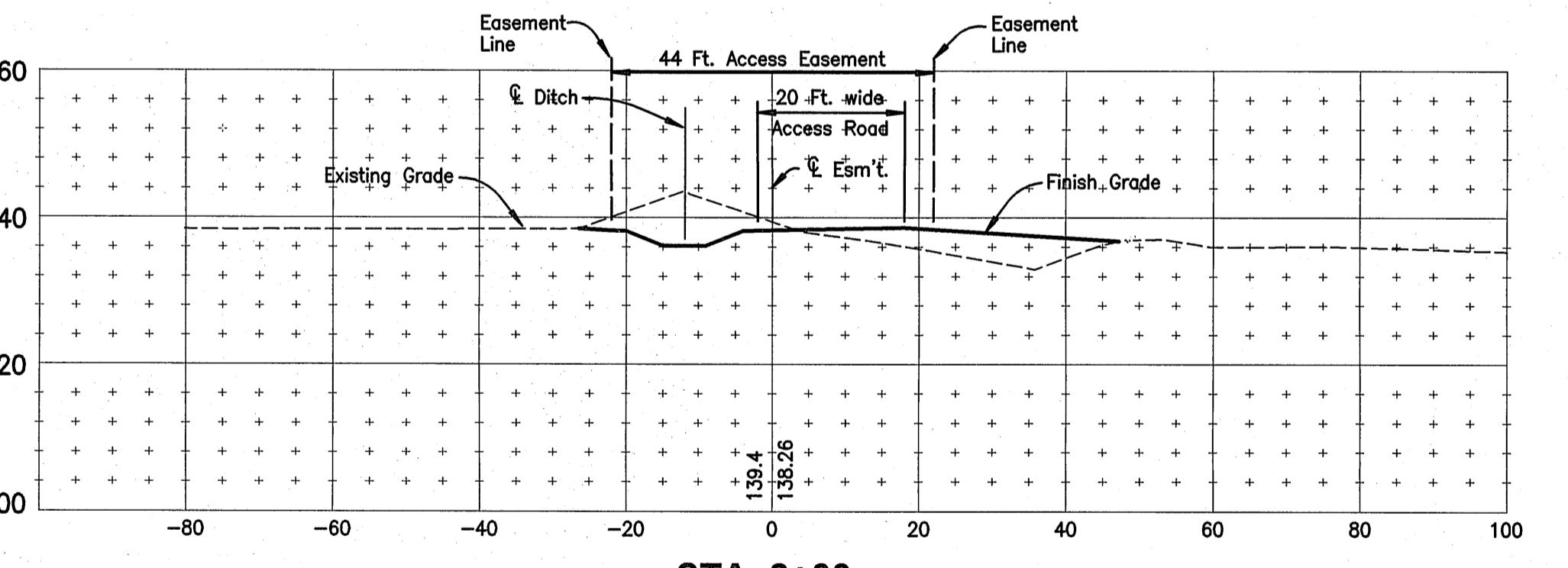
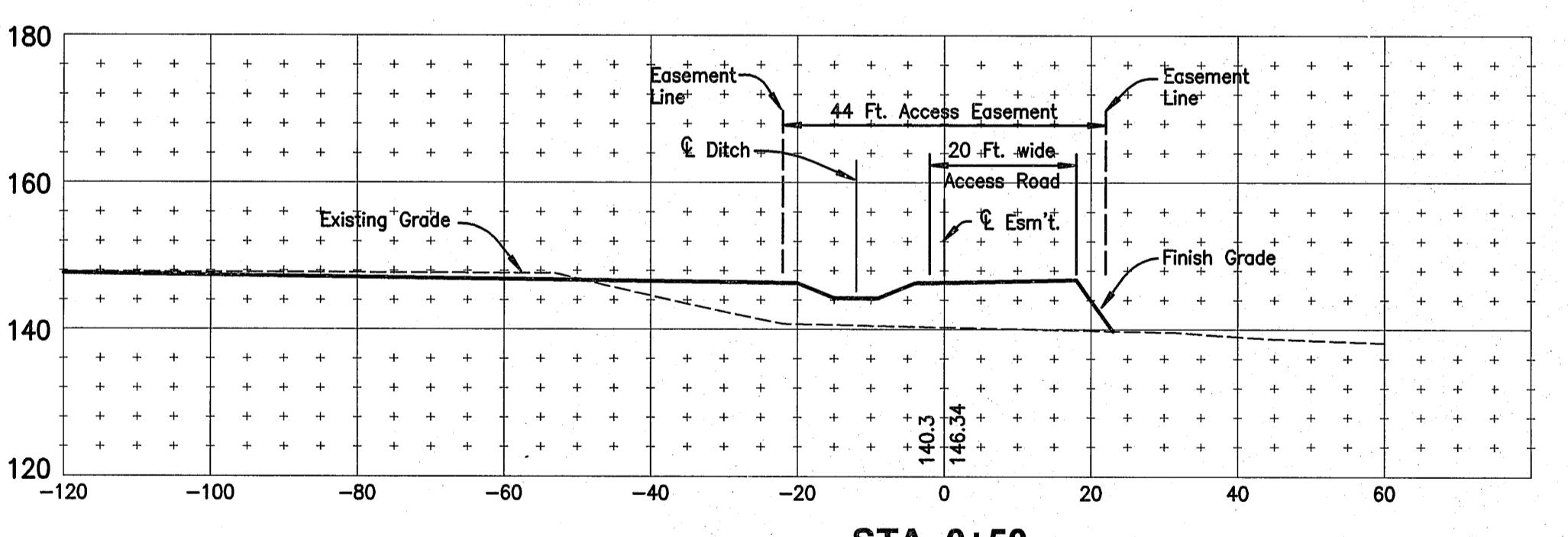
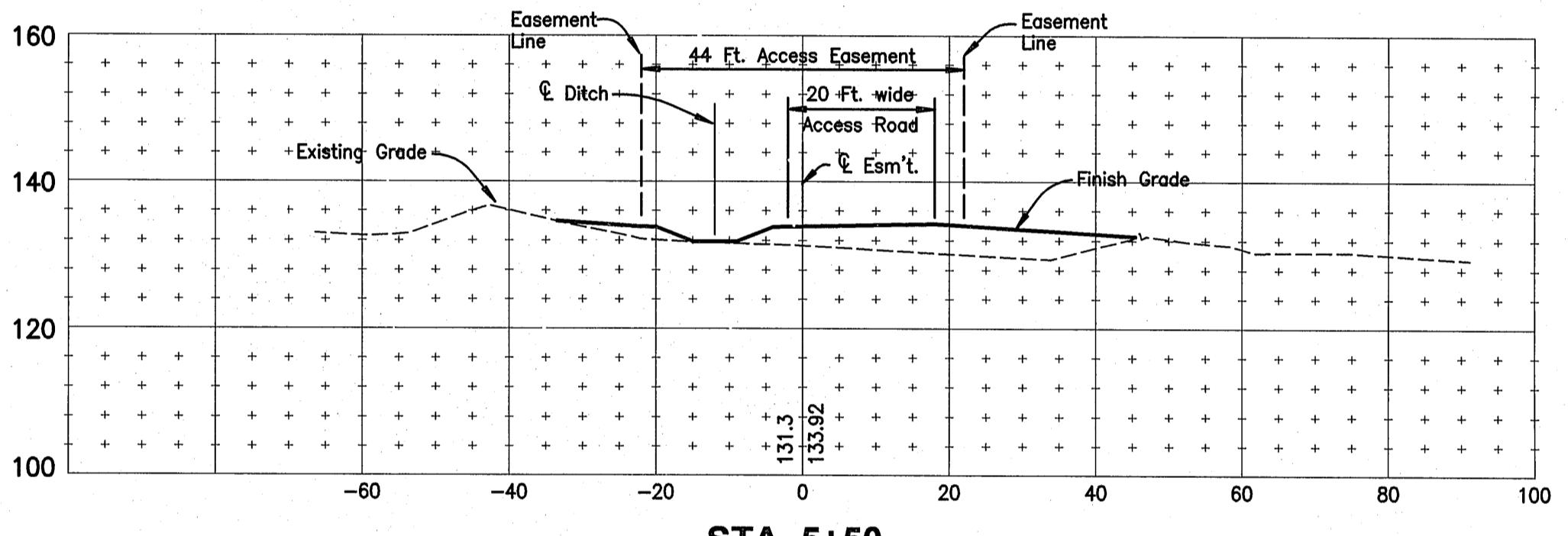
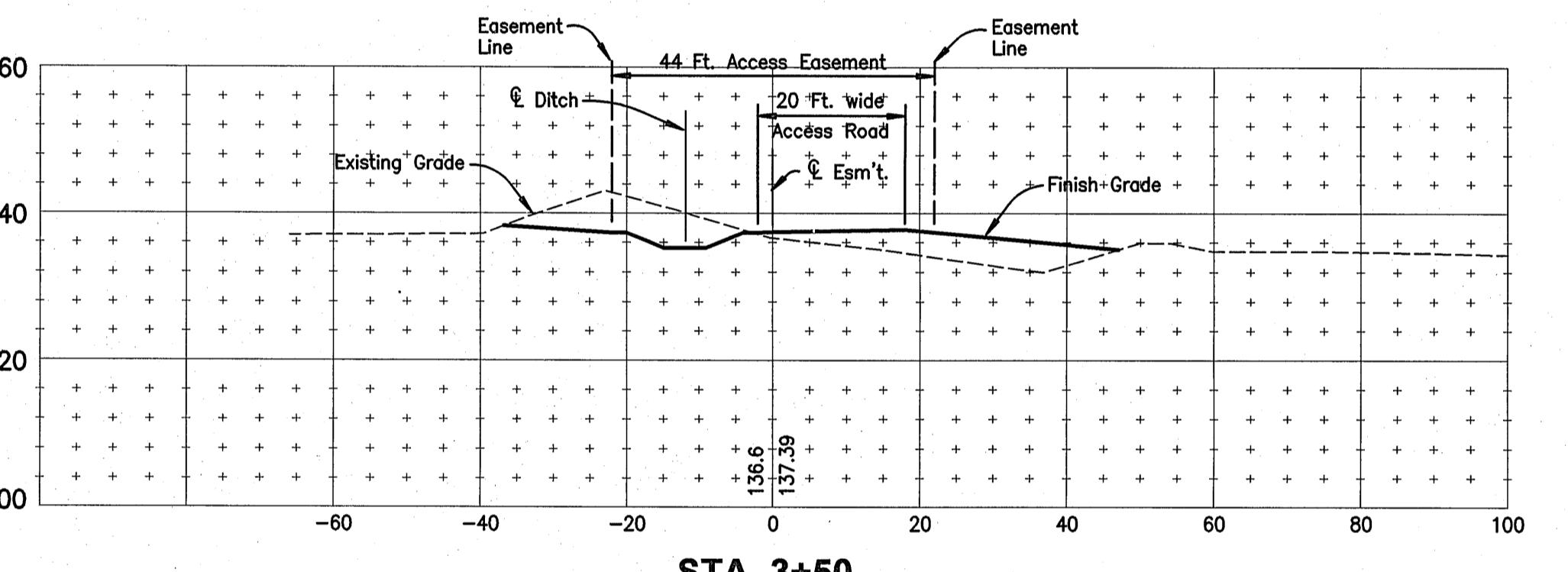
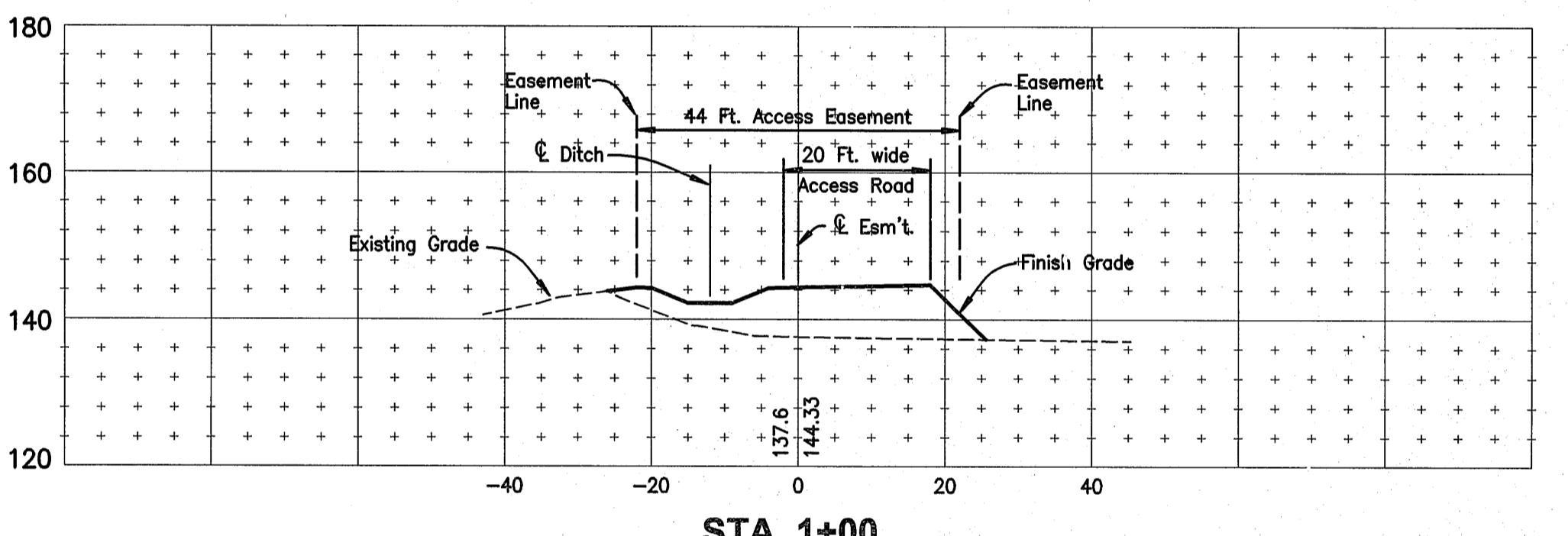
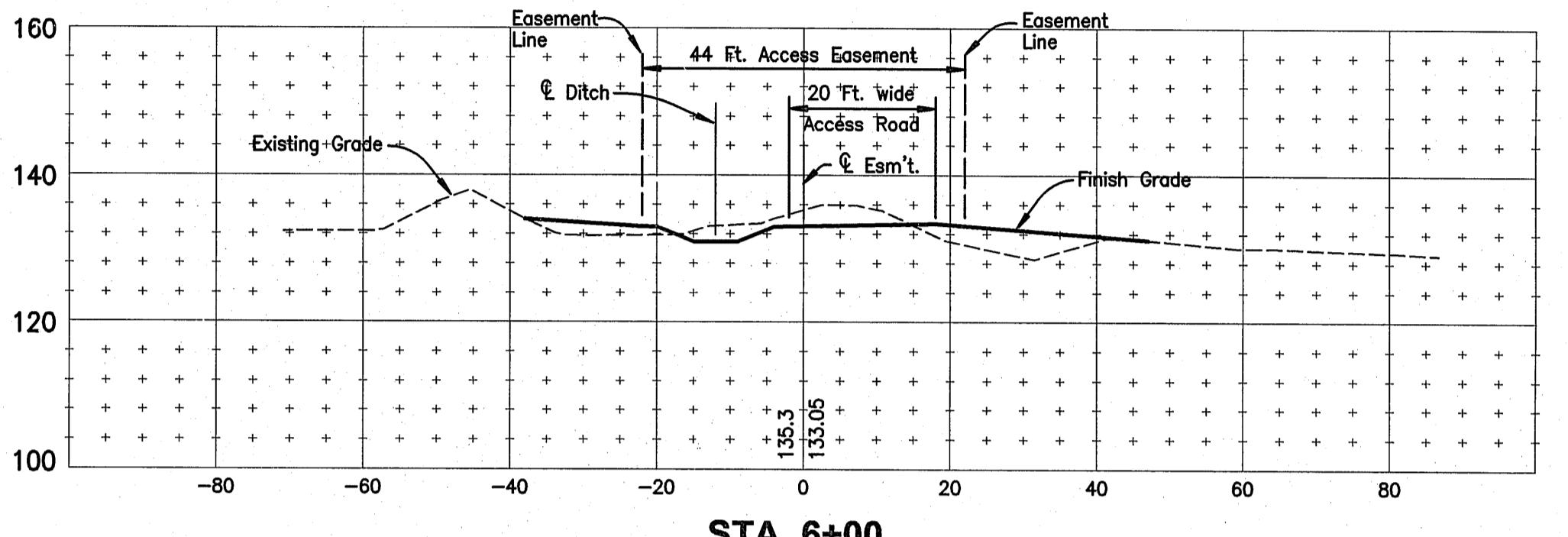
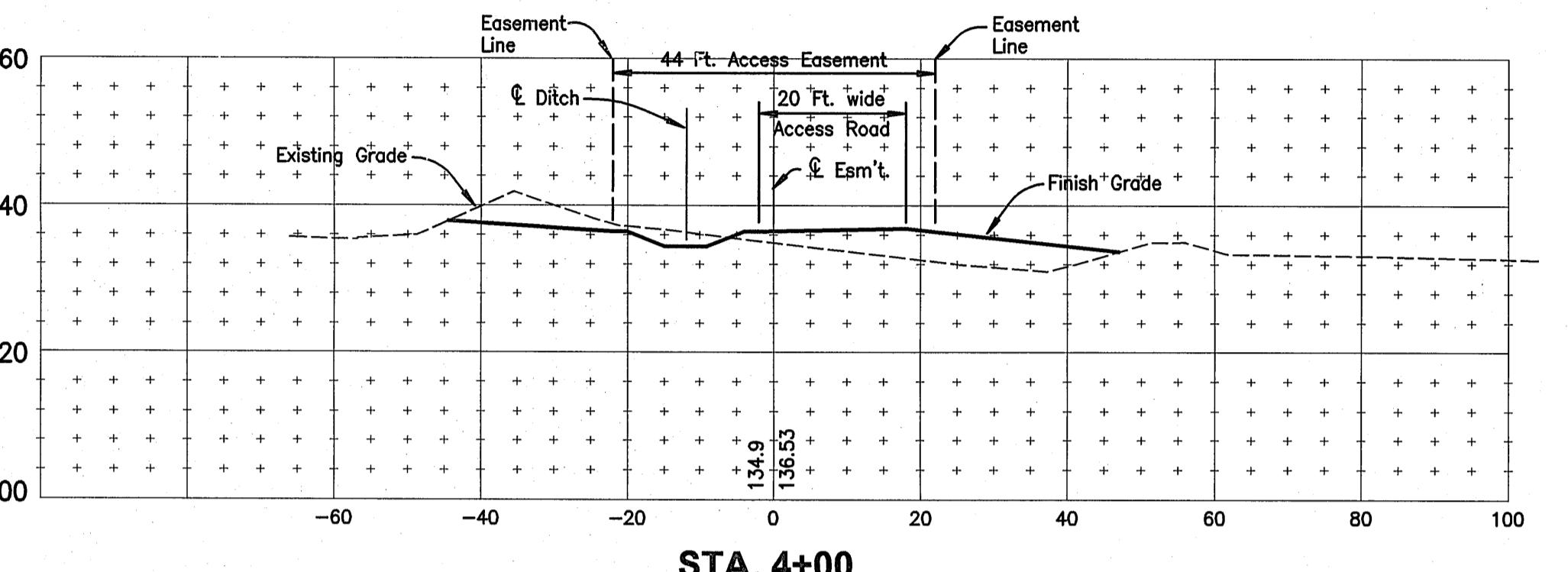
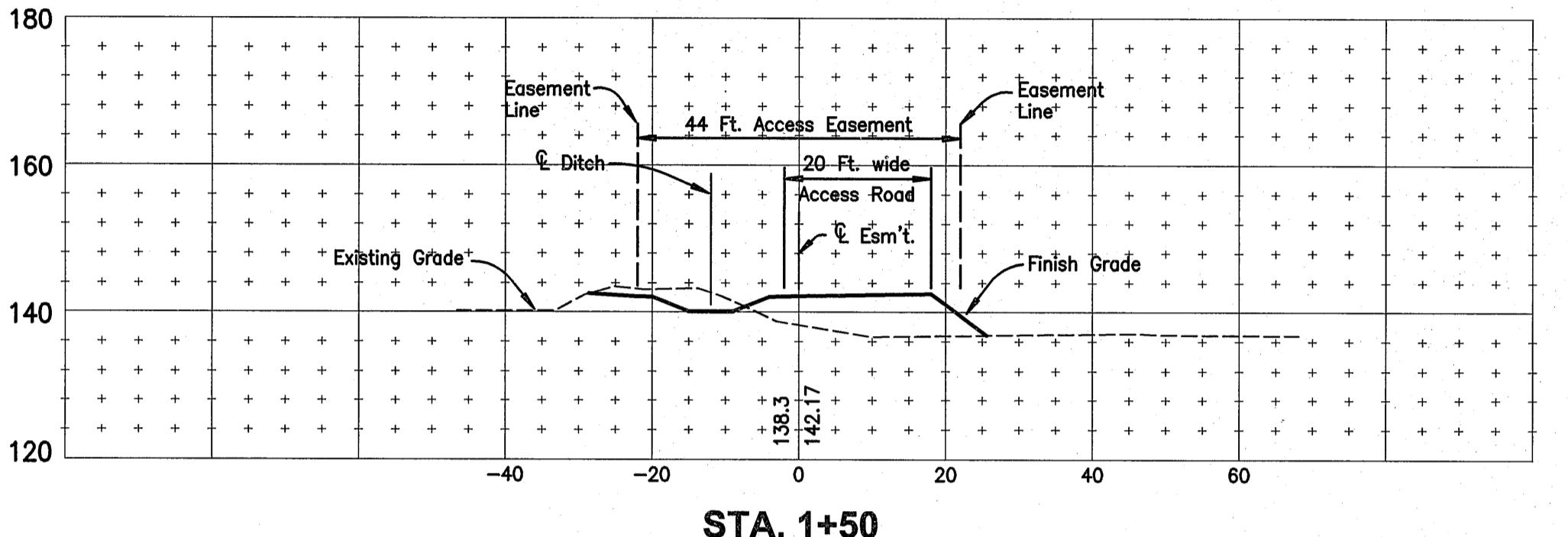
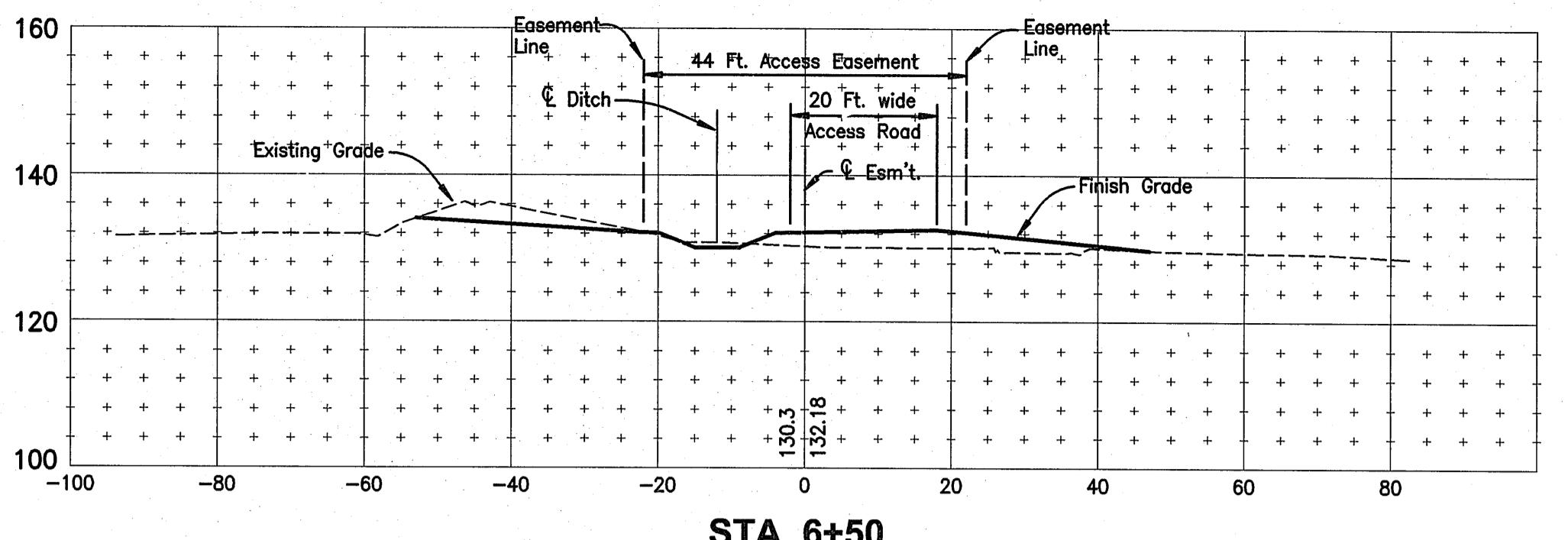
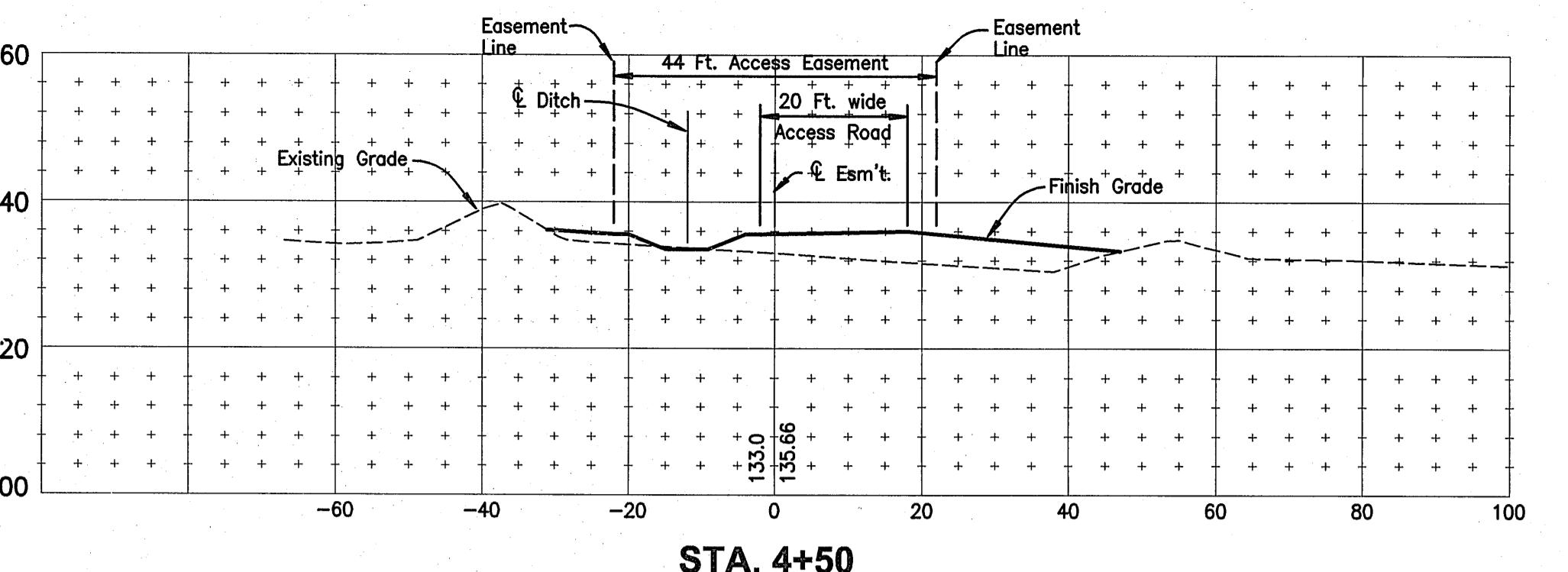
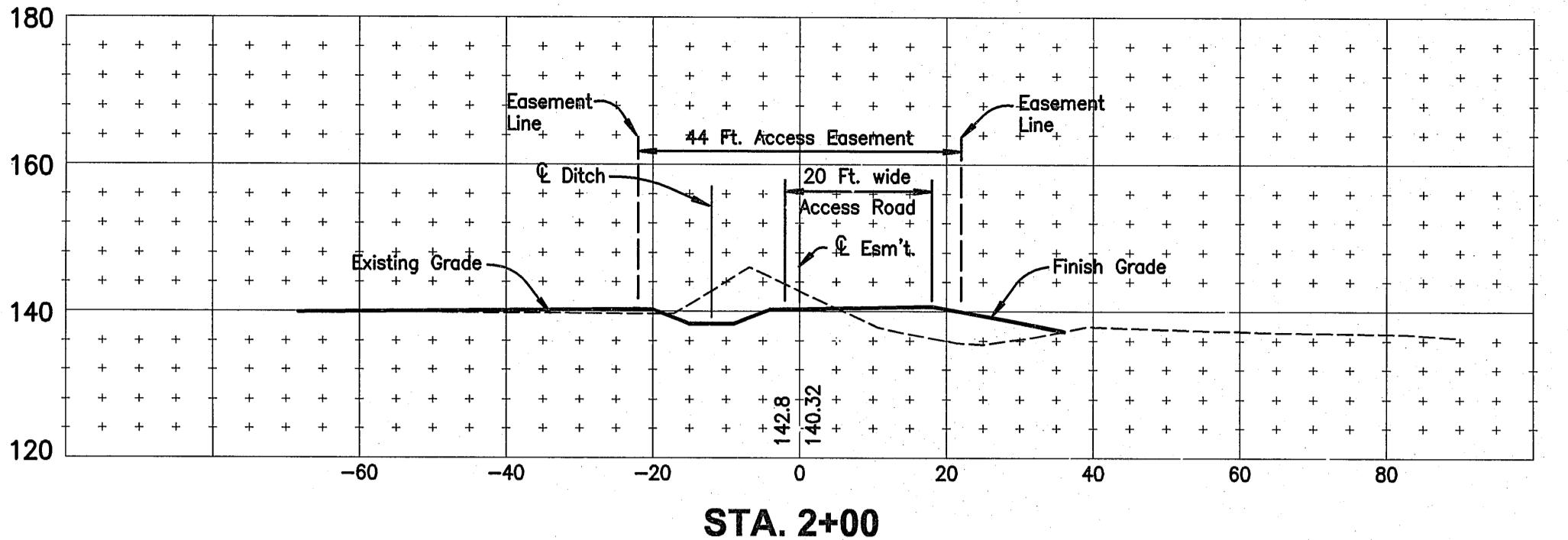
E 1 in. = 40 ft. 10-10-05 DATE OF SHIP

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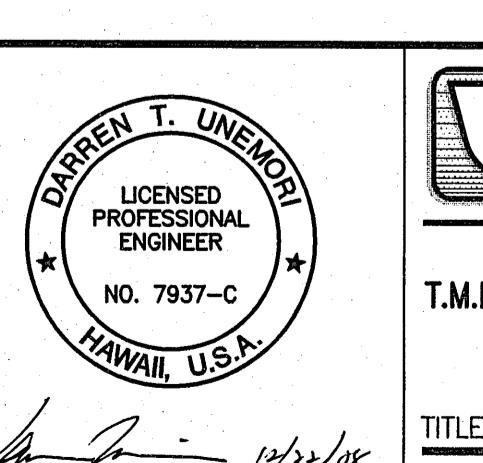
PLAN
Scale: 1 in. = 40 ft.





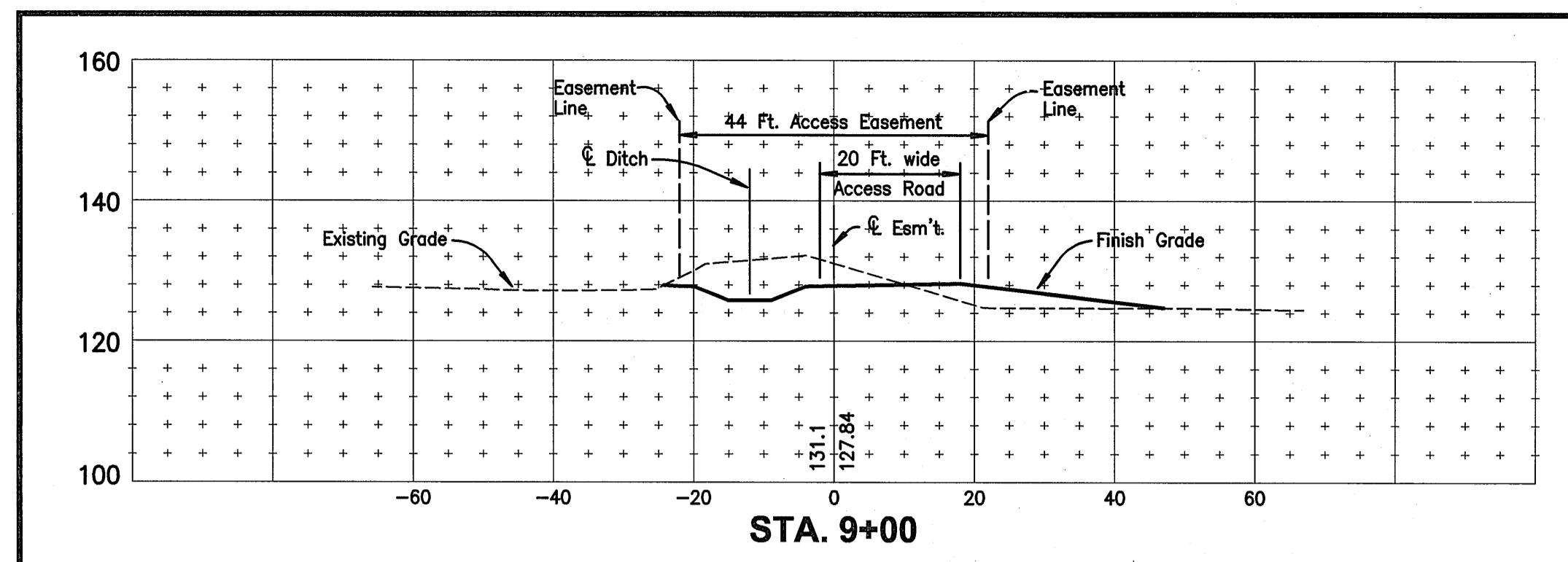
TYPICAL PAVEMENT
SECTION FOR ACCESS ROAD
NOT TO SCALE

DPW Class "C" Pavement
2" A.C. (Mix V)
Prime Coat
6" U.T.B.

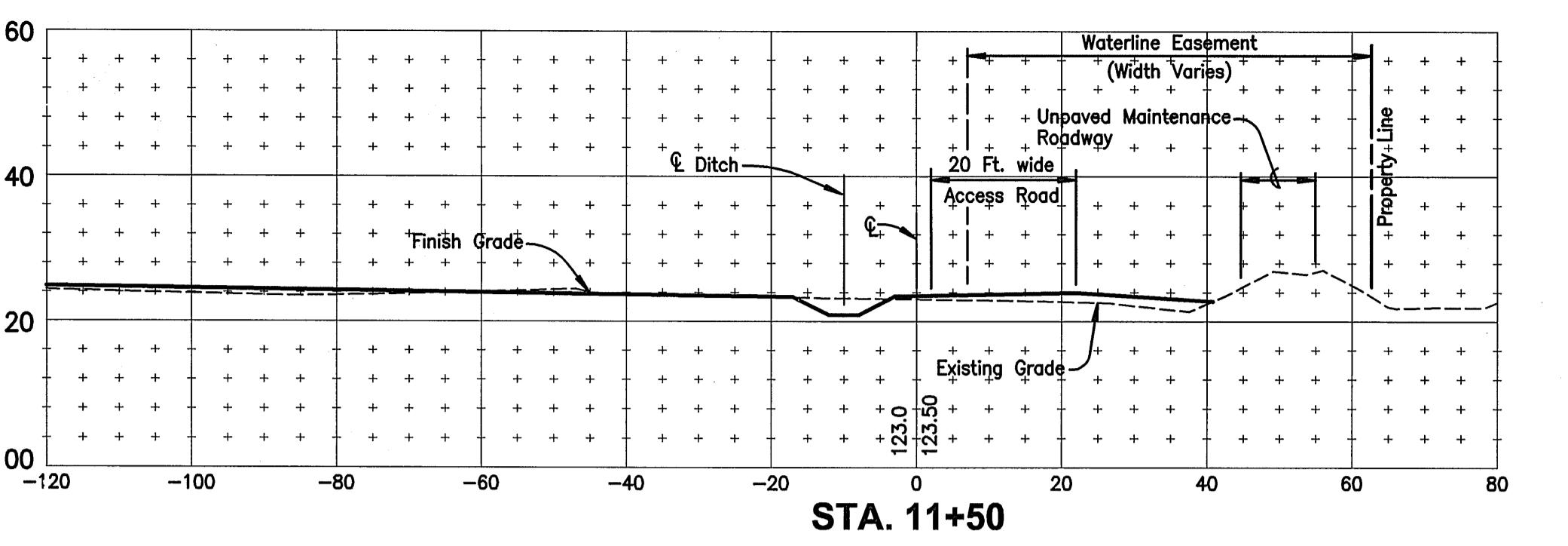


WARREN T. UNEMORI
LICENSED PROFESSIONAL ENGINEER
NO. 7937-C
HAWAII, U.S.A.
KAONOOLU MARKET PLACE
T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16
KIEHI, MAUI, HAWAII
CROSS SECTIONS ALONG ACCESS ROAD
FROM OHUKA ROAD TO PROJECT SITE

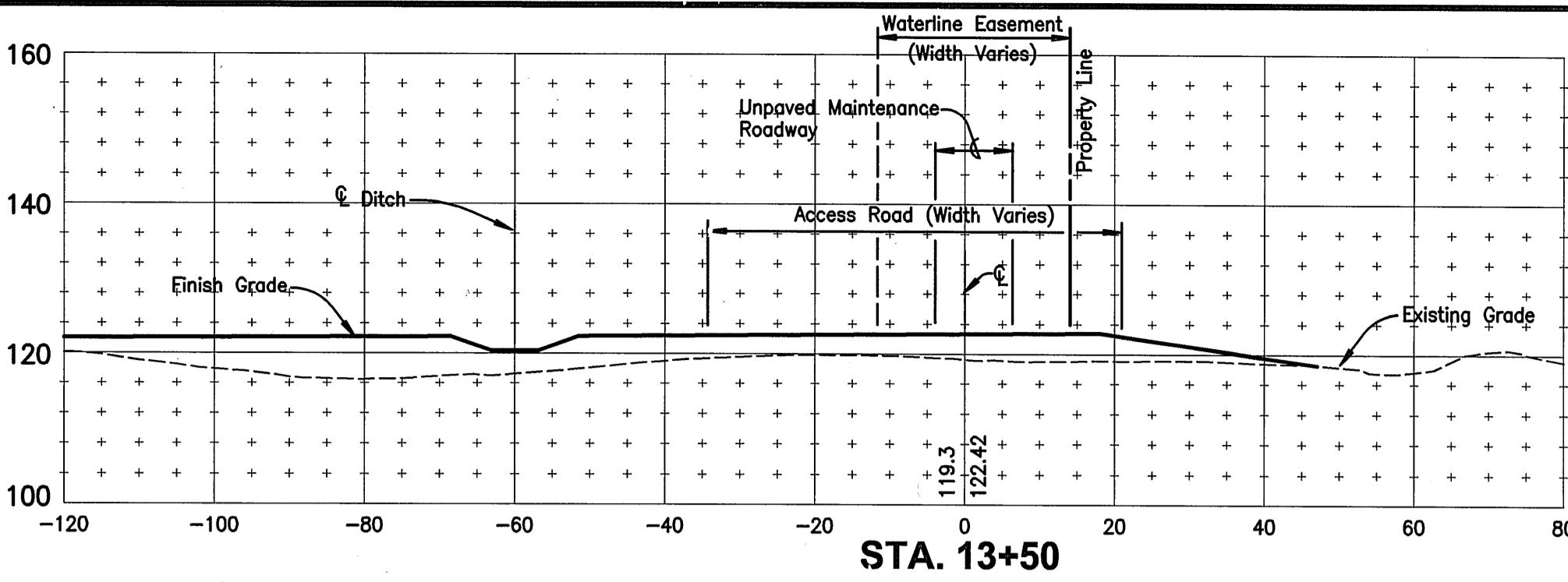
ALU DTU
DESIGNED BY CHECKED BY
WIS DTU
DRAWN BY APPROVED BY
10-10-05
DATE
7.04
SHEET OF SHEETS



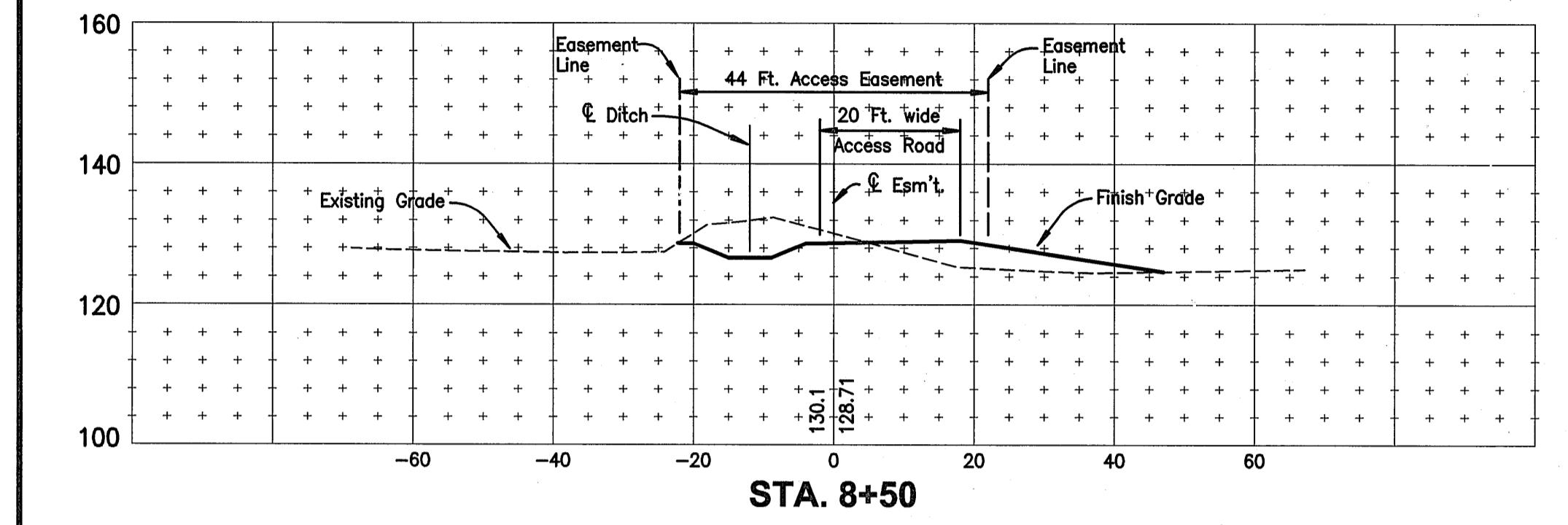
STA. 9+00



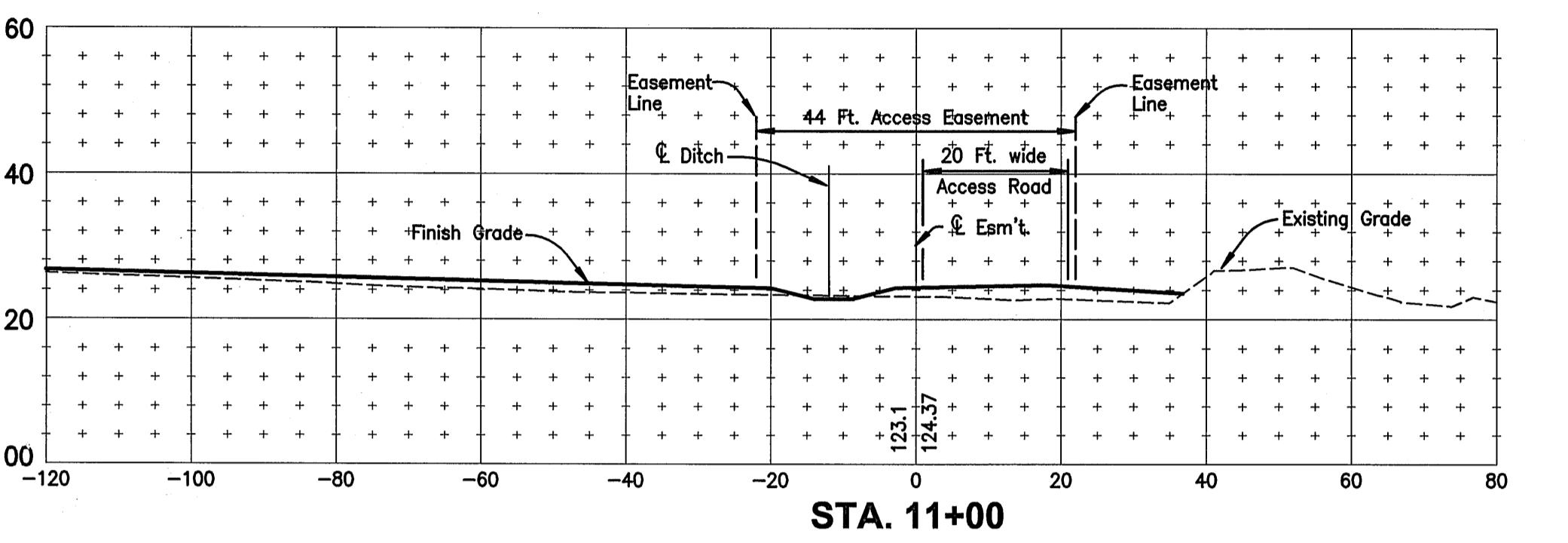
STA. 11+50



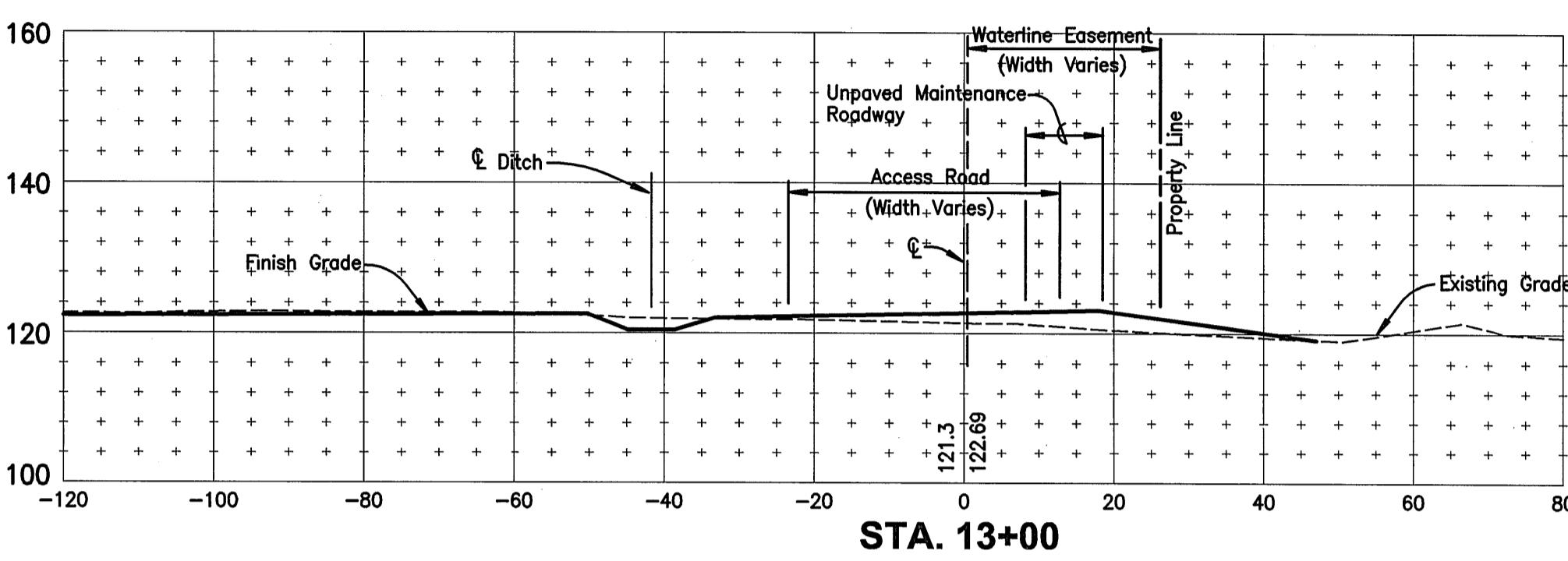
STA. 13+50



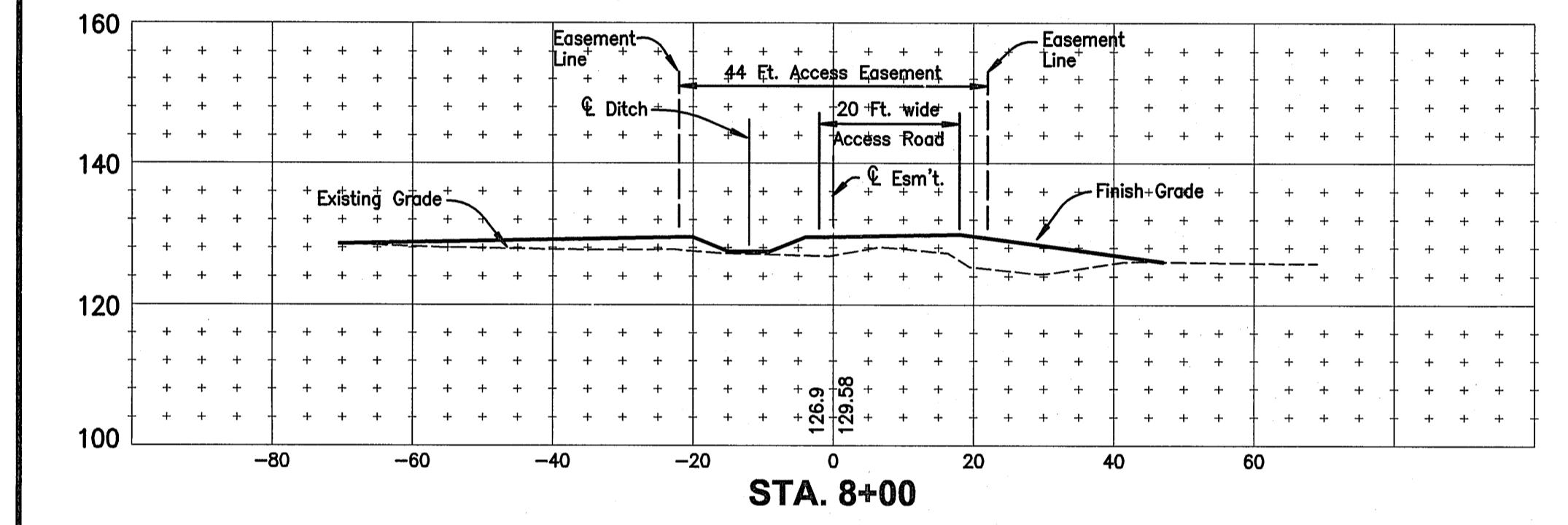
STA. 8+50



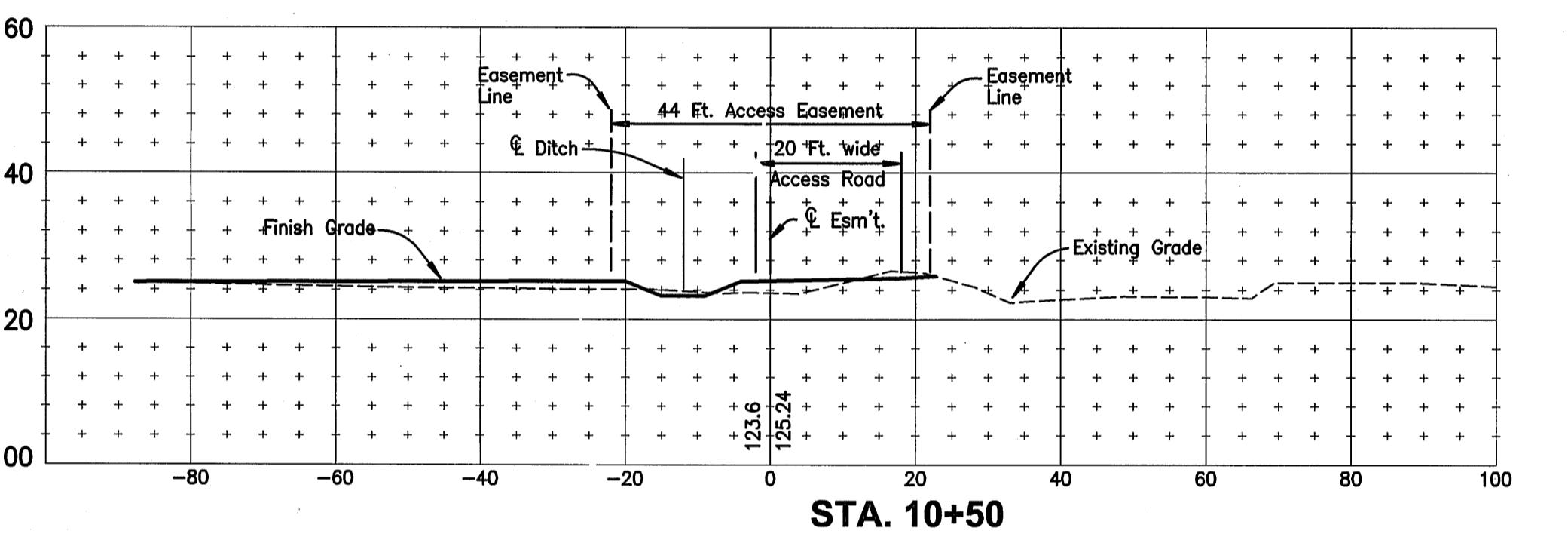
STA. 11+00



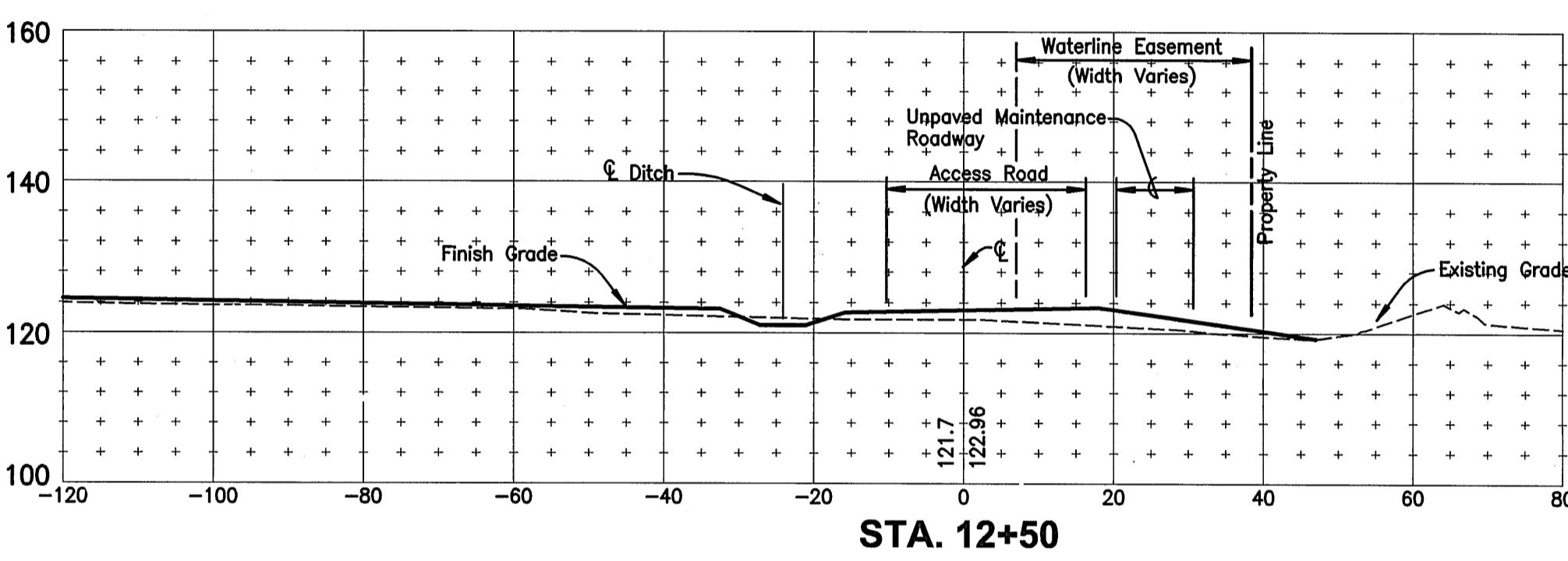
STA. 13+00



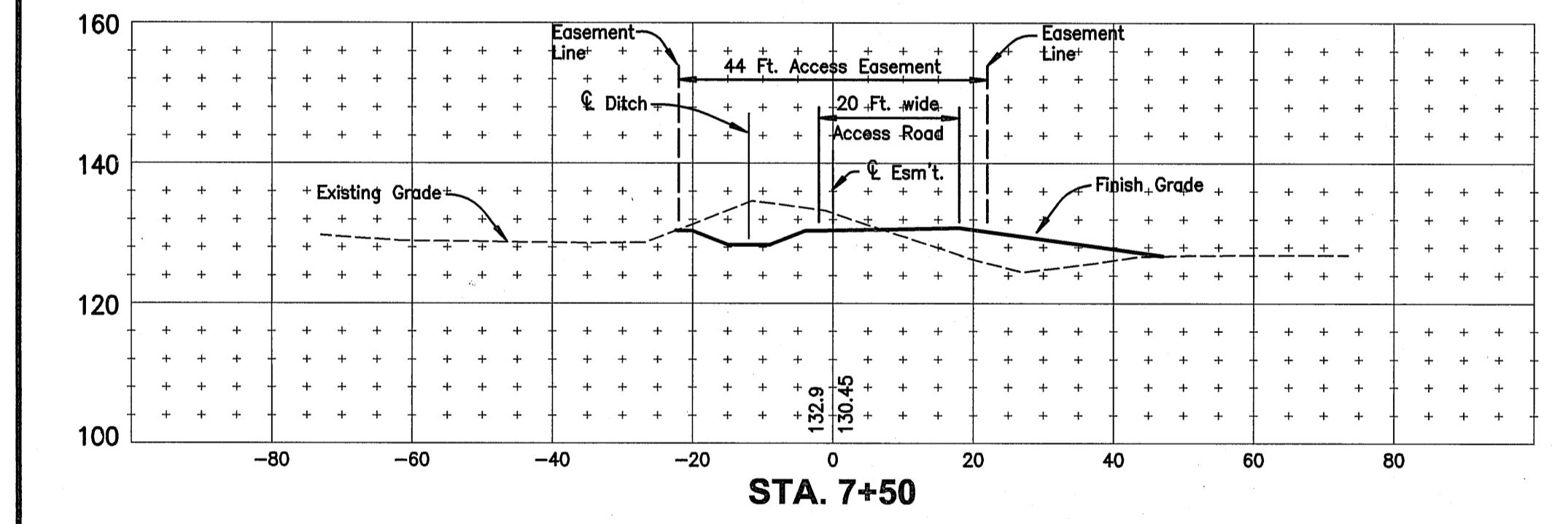
STA. 8+00



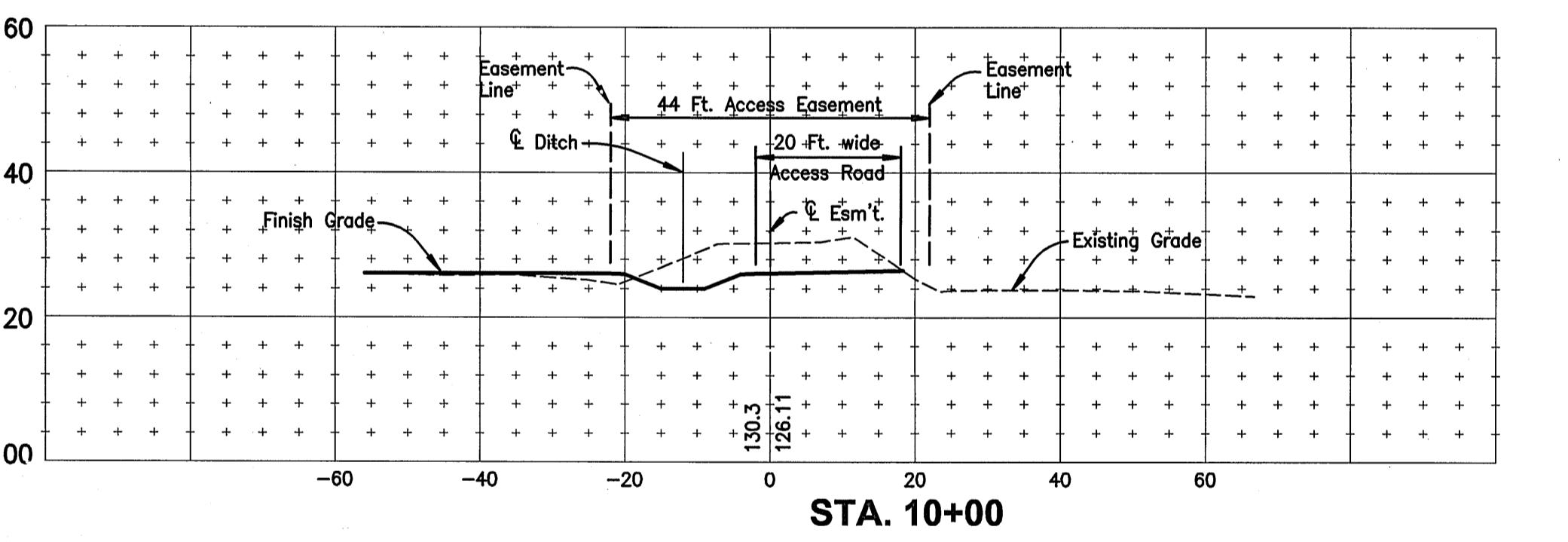
STA. 10+50



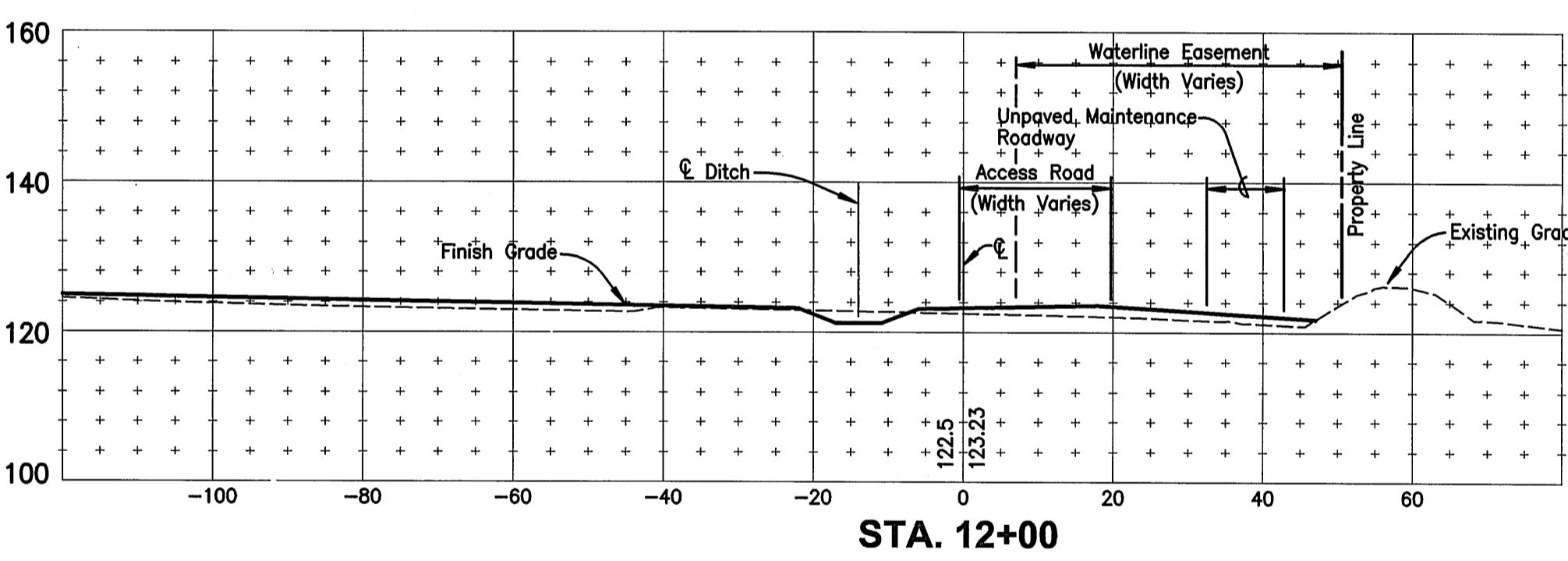
STA. 12+50



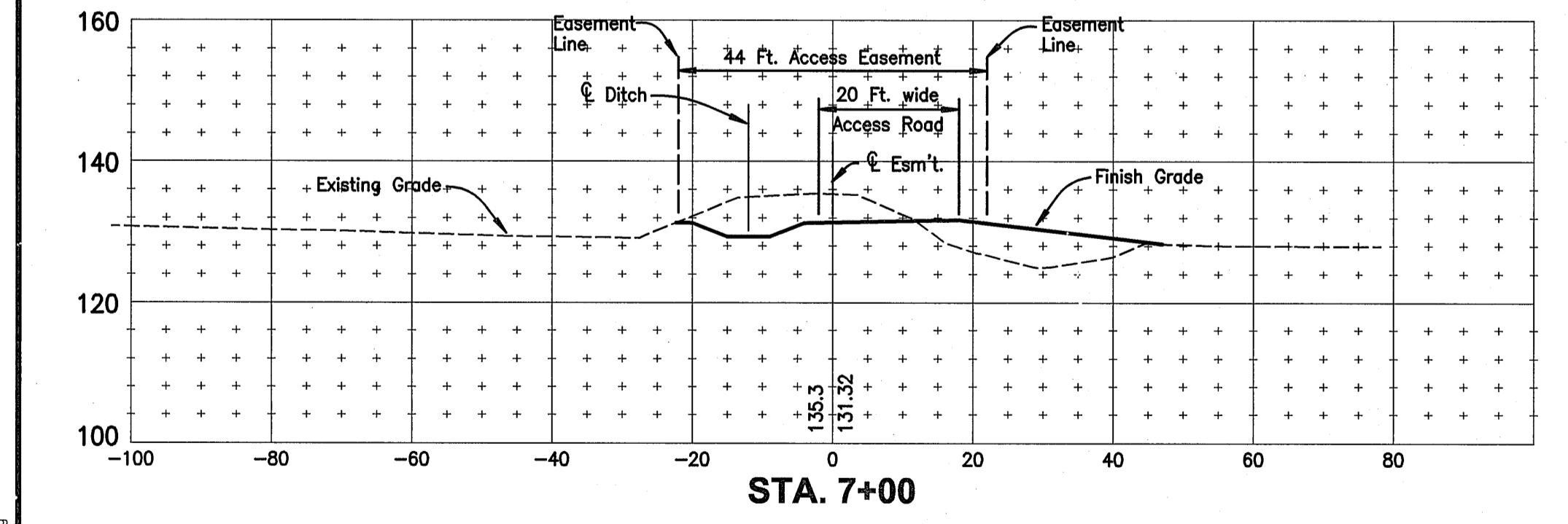
STA. 7+50



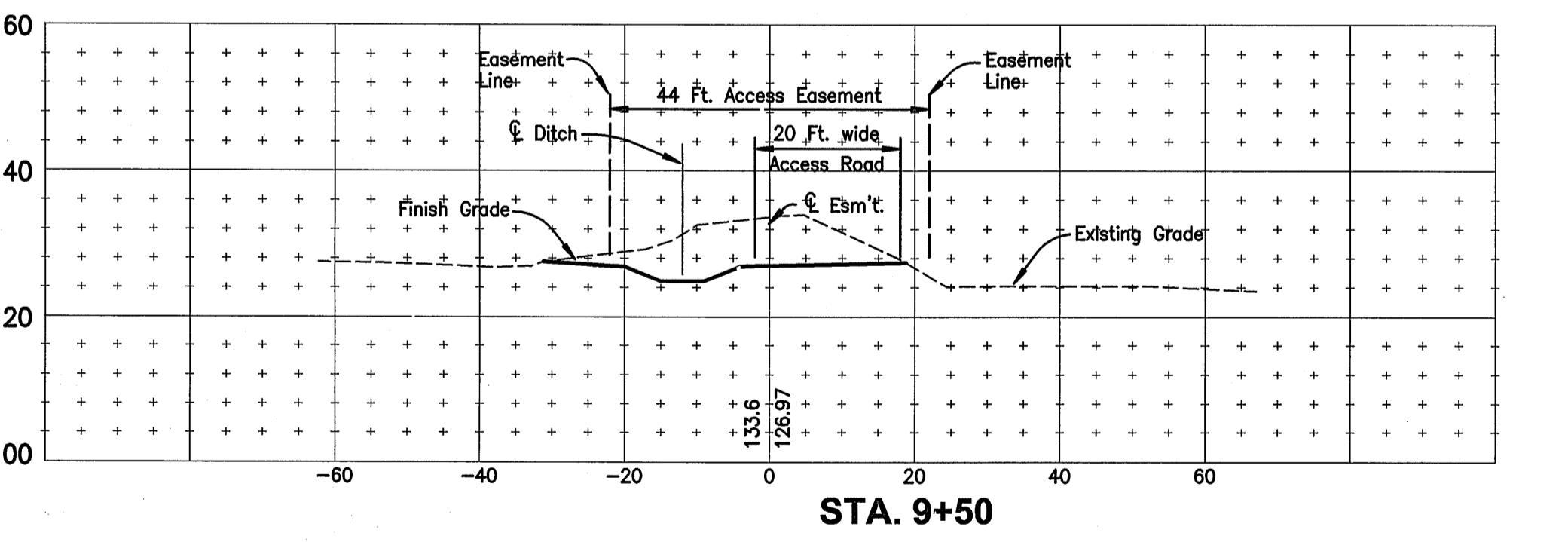
STA. 10+00



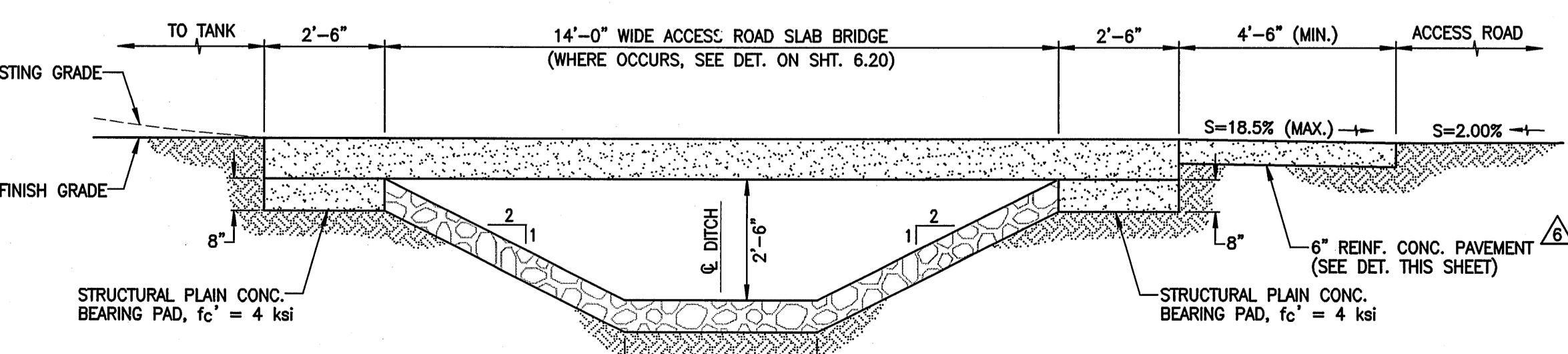
STA. 12+00



STA. 7+00

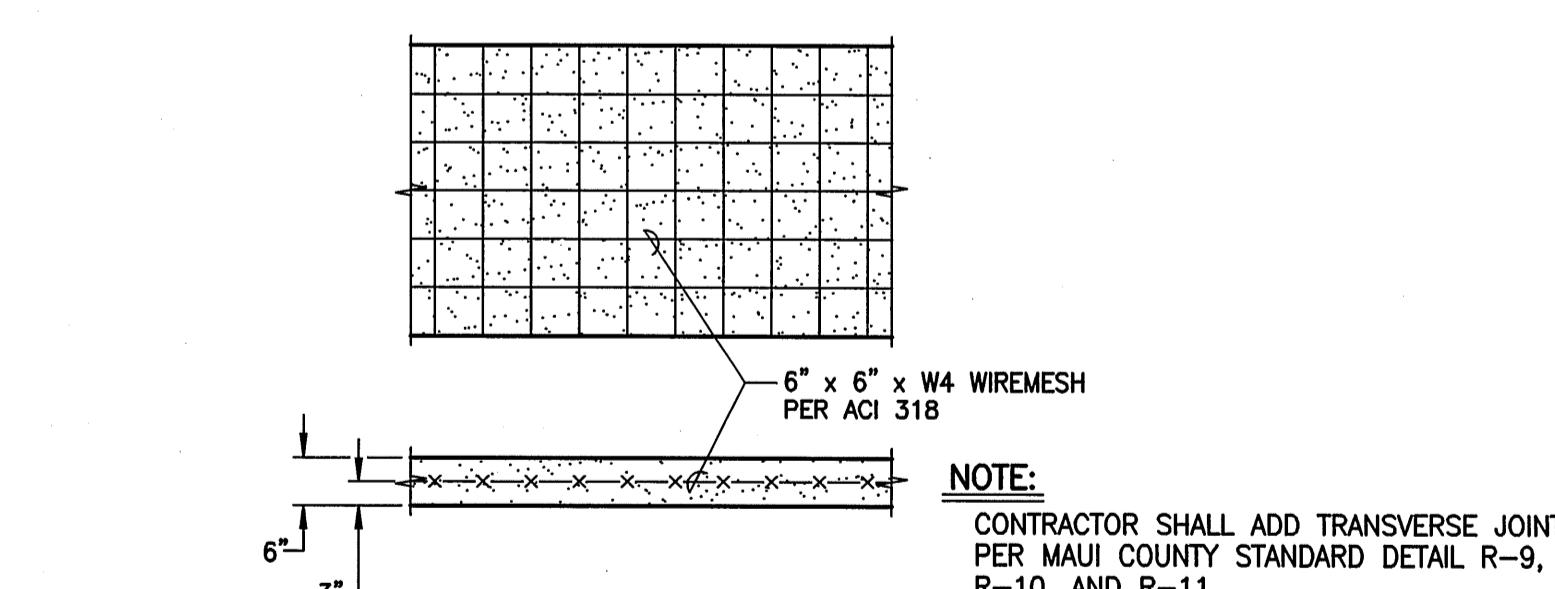


STA. 9+50

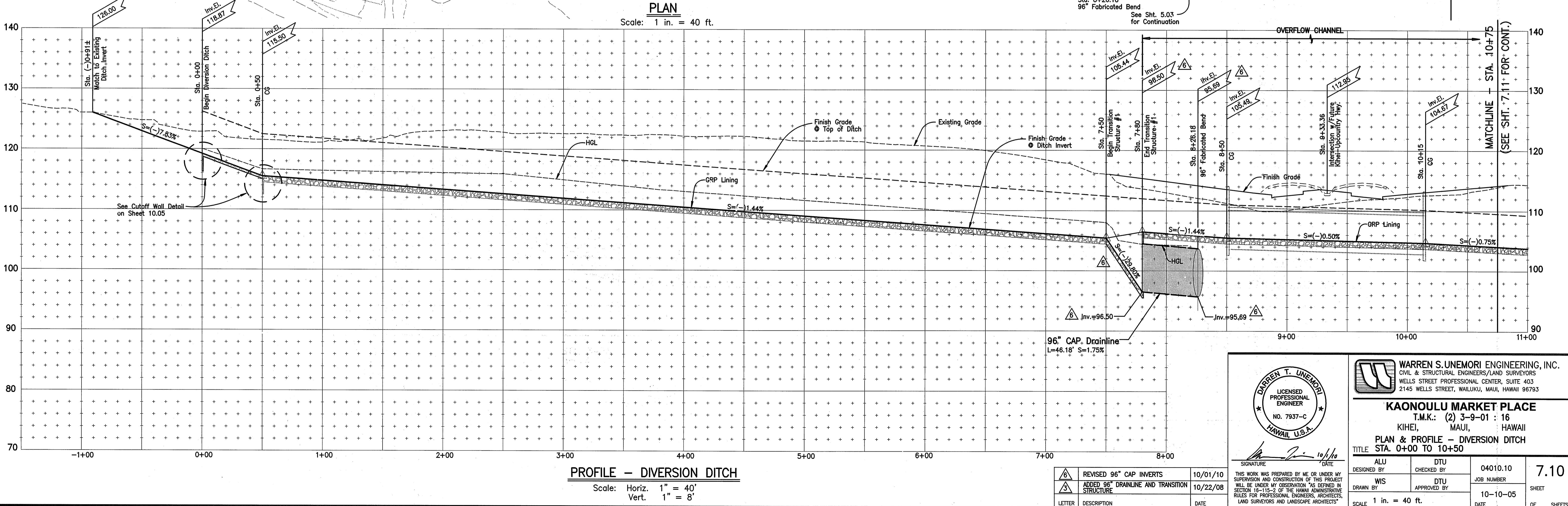
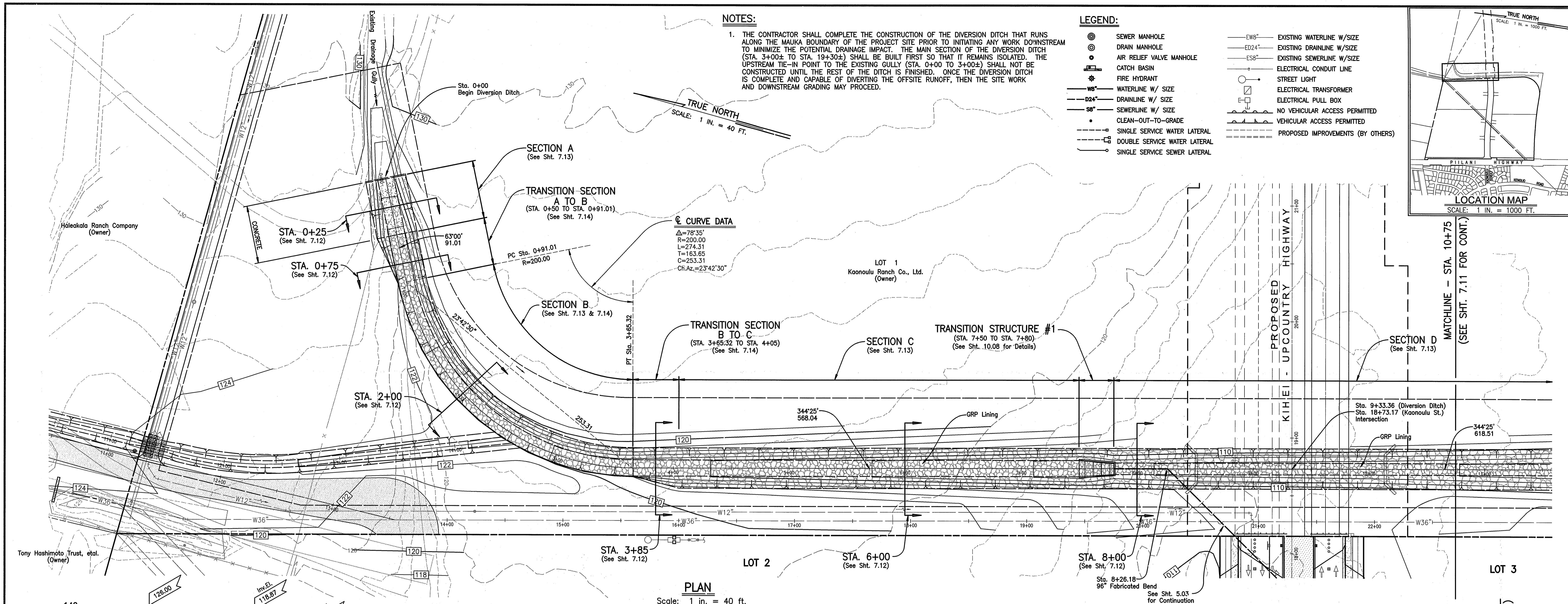


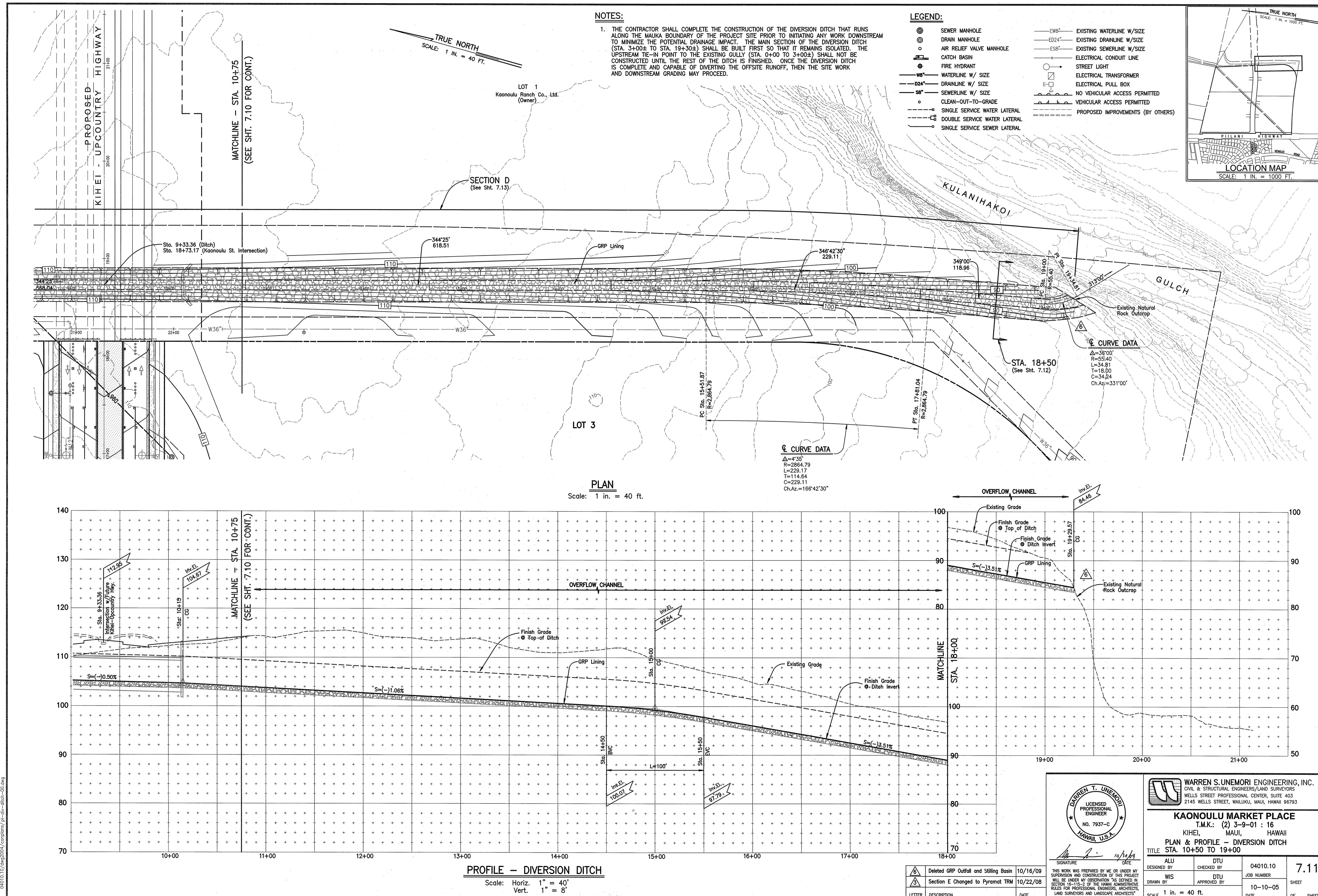
14 FT. WIDE GRP DITCH (STA. 11+28 TO 11+47)

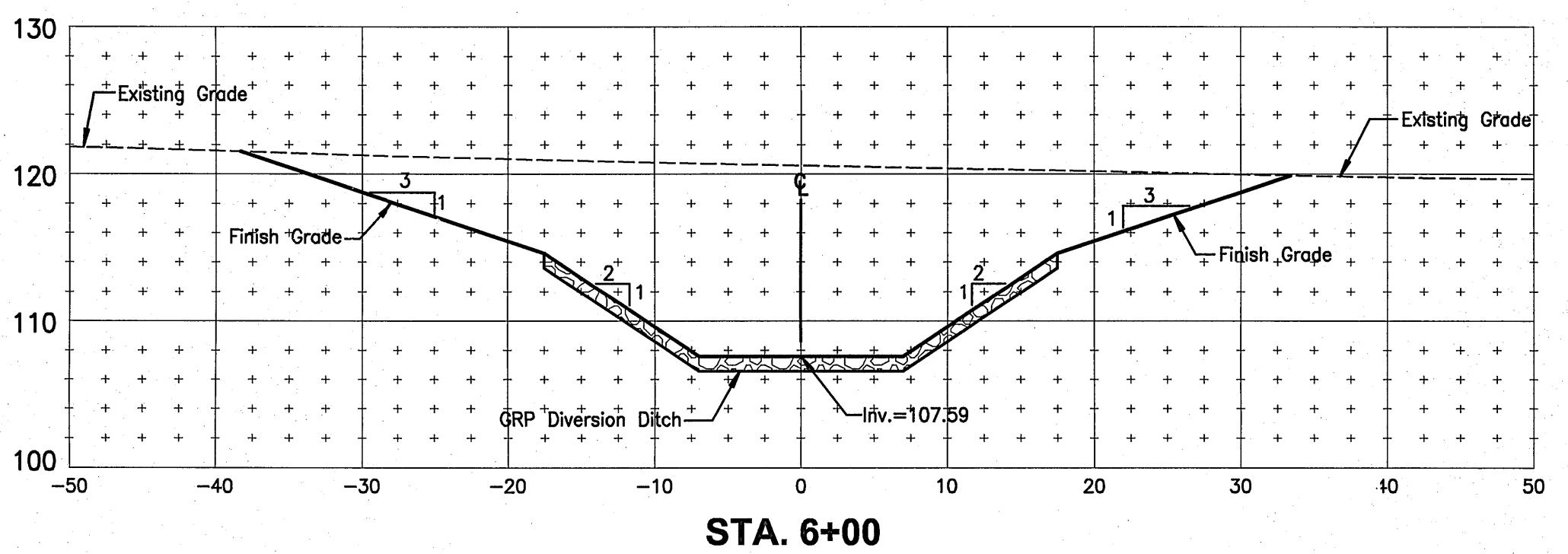
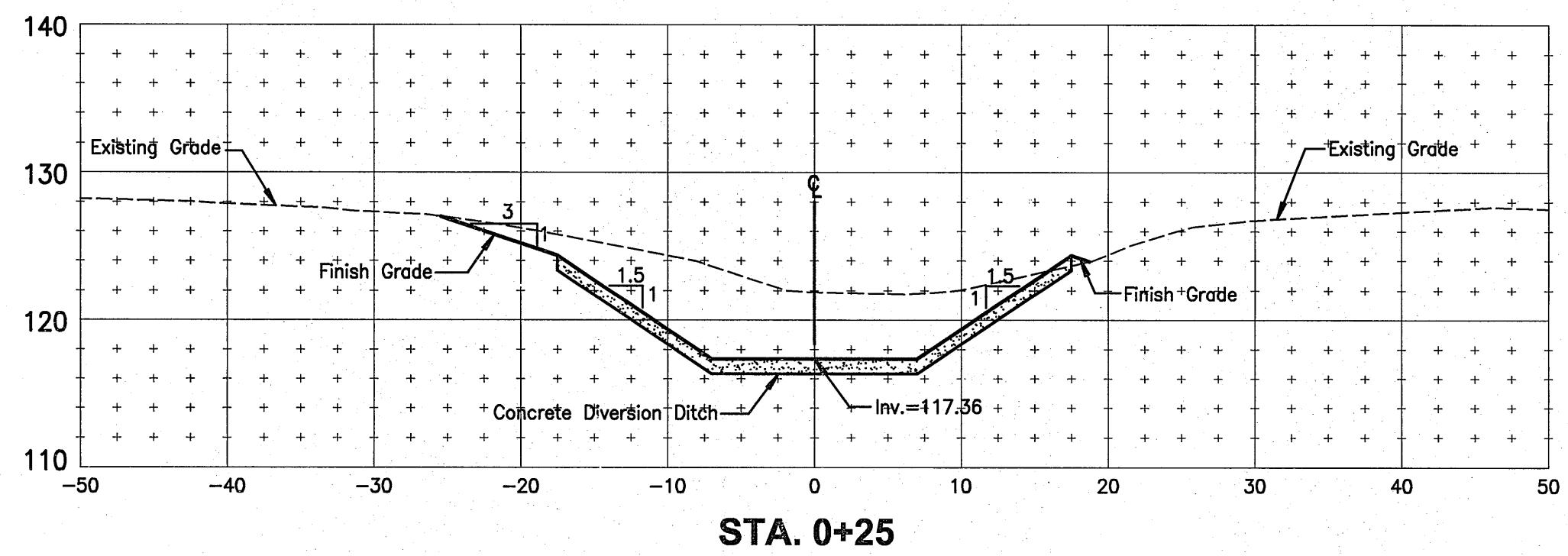
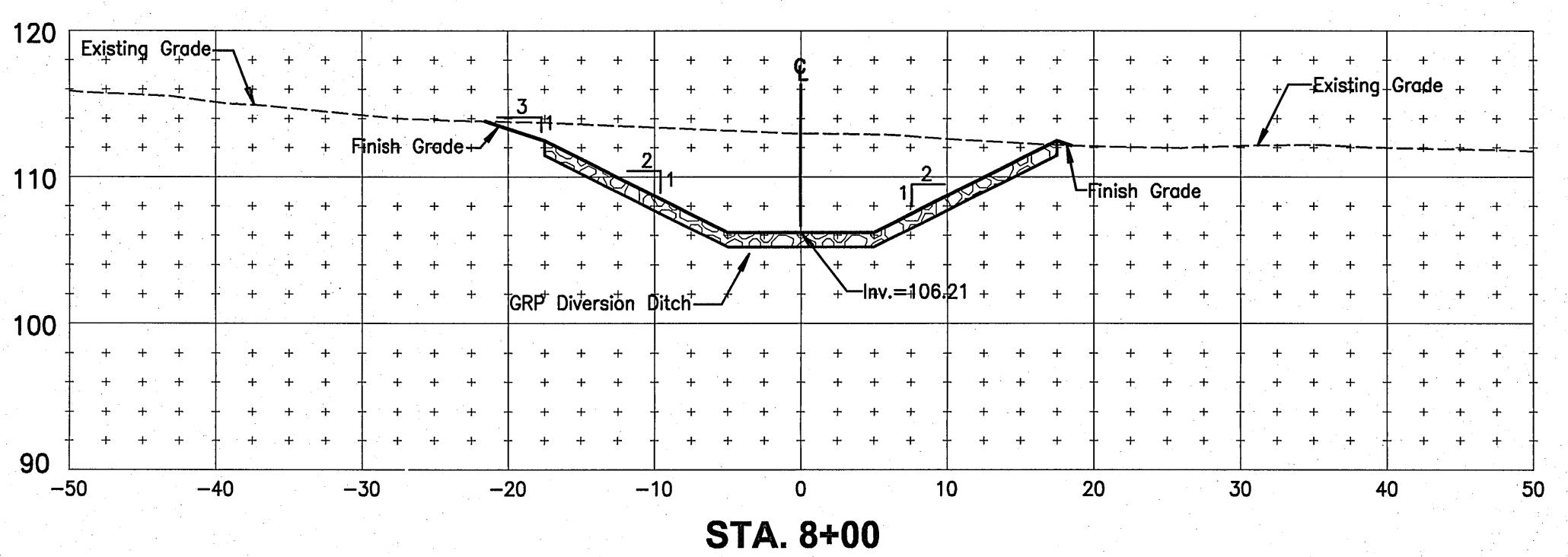
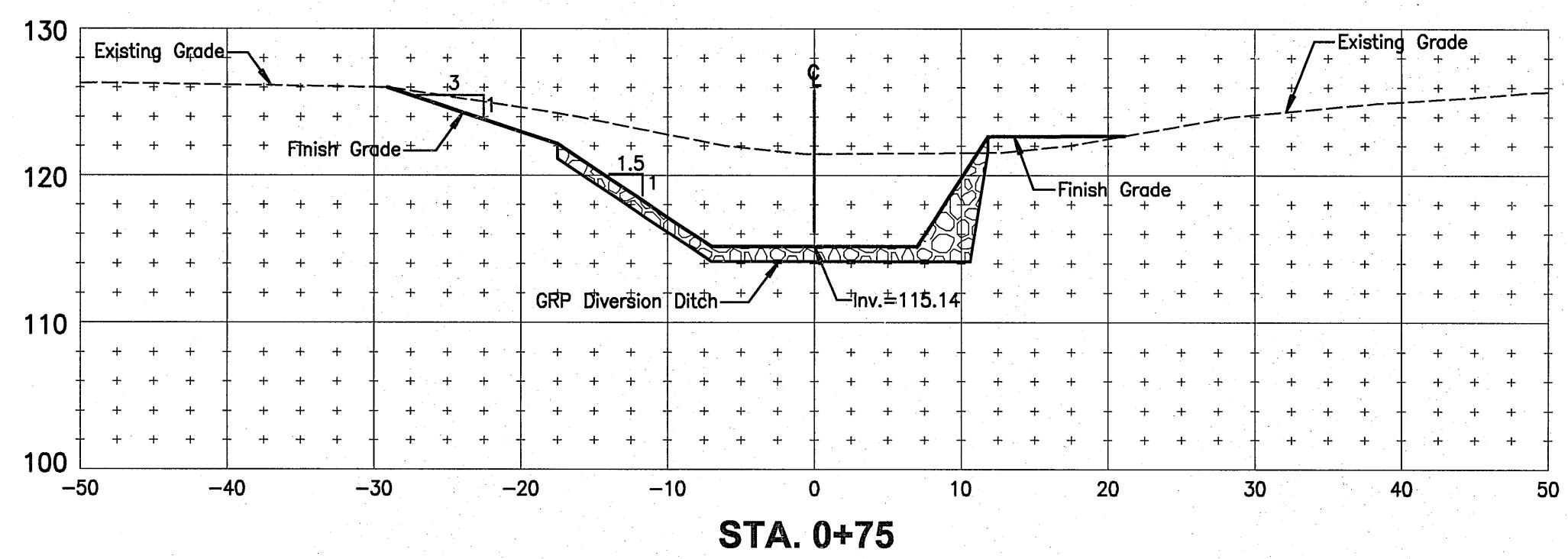
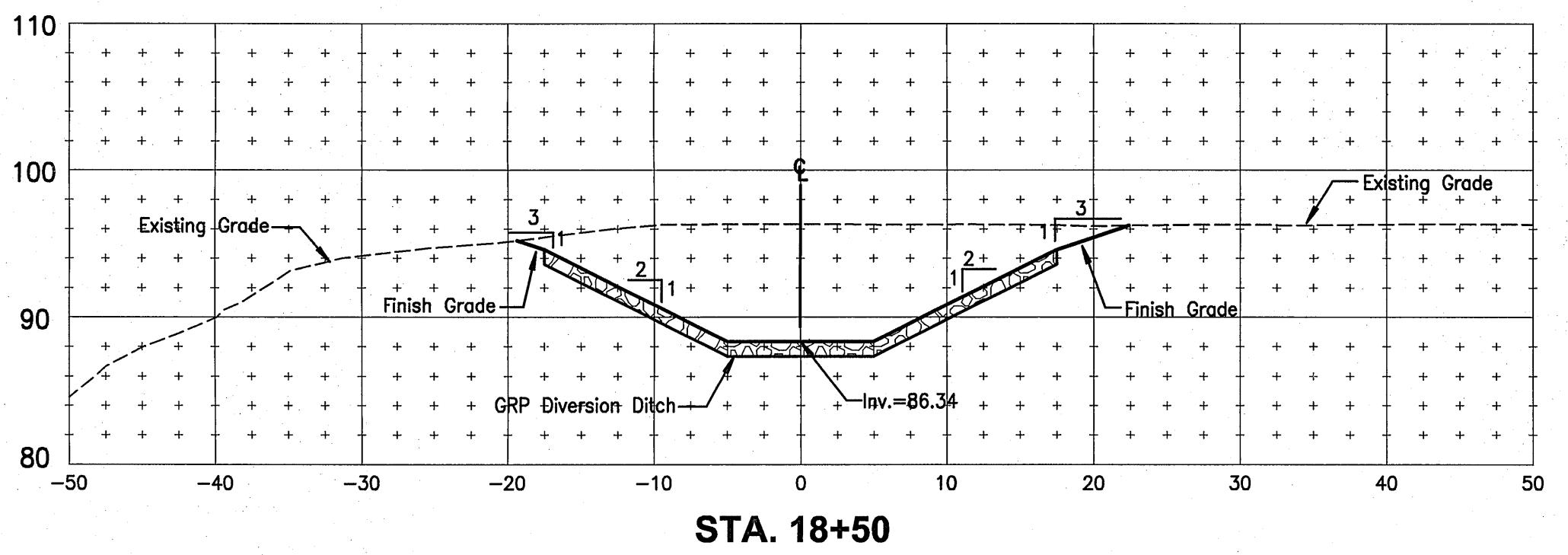
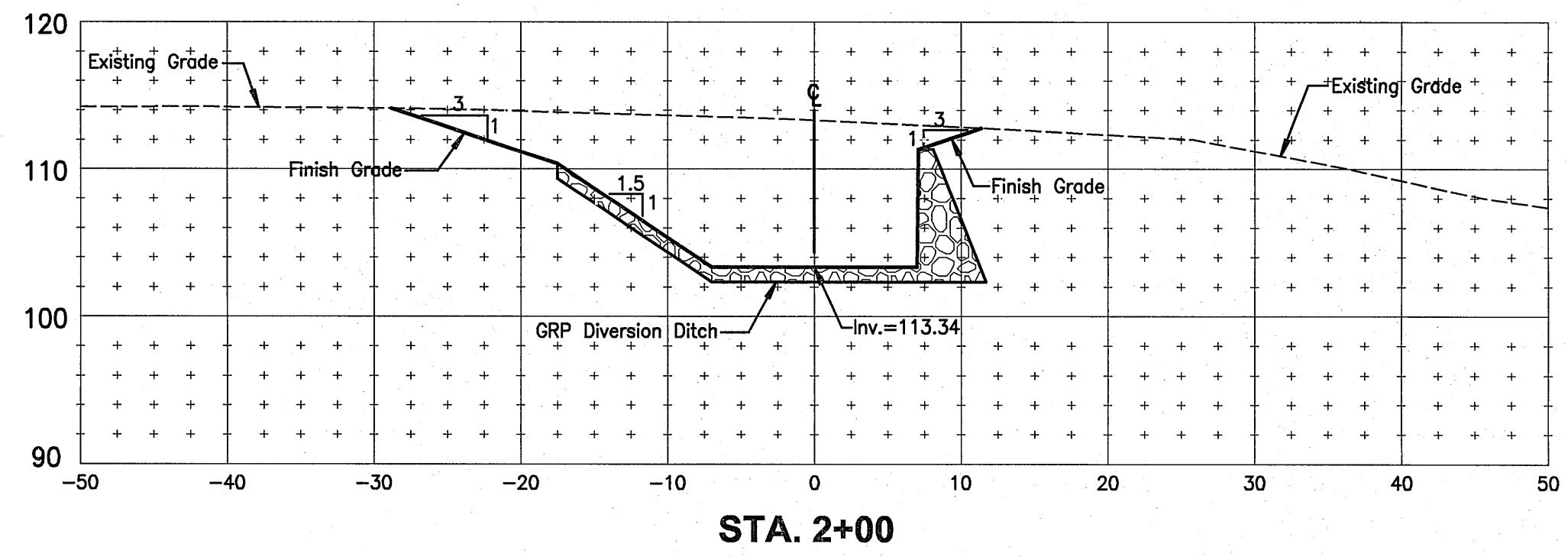
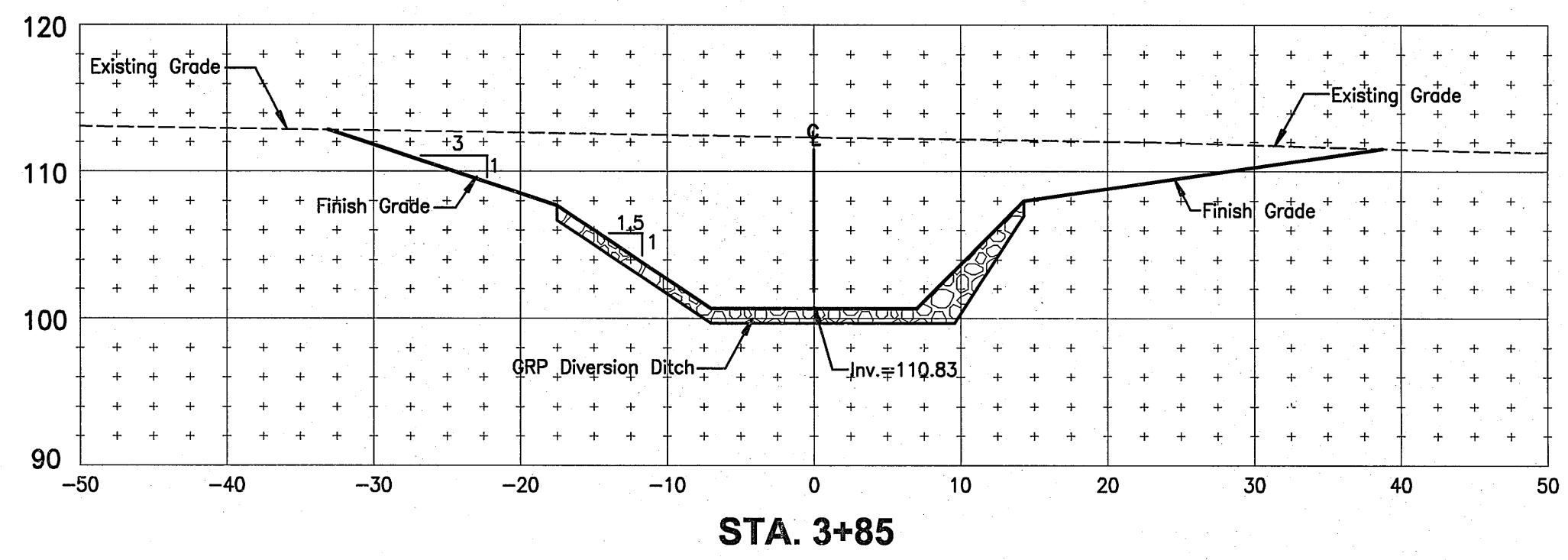
SCALE: 3/8" = 1'-0"

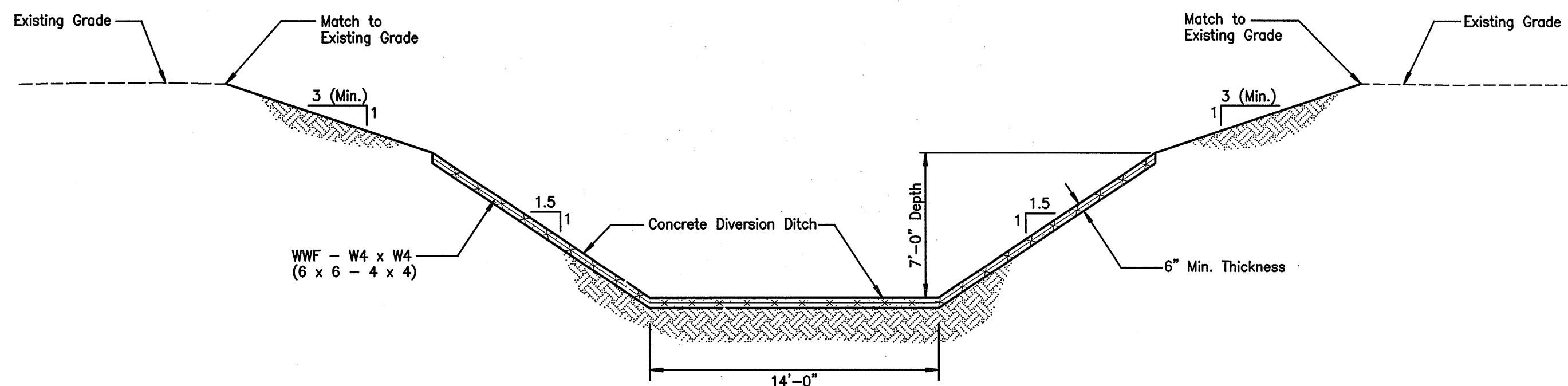
DETAIL - 6" REINFORCED CONCRETE PAVEMENT
NOT TO SCALE

 WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793		KAONOULU MARKET PLACE T.M.K.: (2) 3-9-01 : 16 KIHEI, MAUI, HAWAII CROSS SECTIONS ALONG ACCESS ROAD FROM OHUKAI ROAD TO PROJECT SITE	
DTU	DTU	04010.10	JOB NUMBER
WIS	DTU	10-10-05	DATE
DRAWN BY	APPROVED BY	1 in. = 20 ft.	
7.05	OF SHEETS		



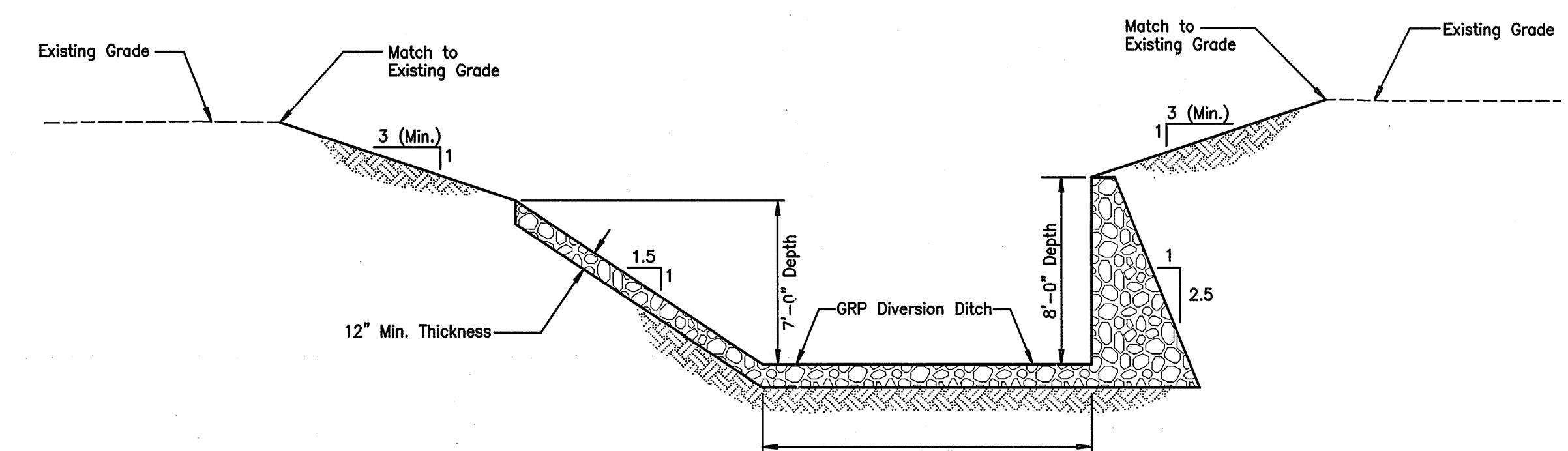






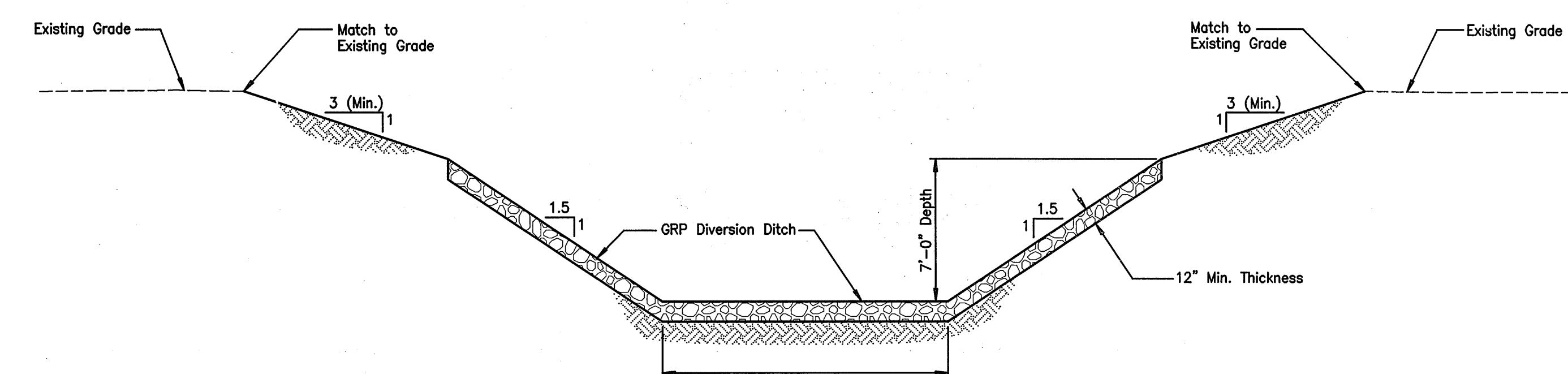
TYPICAL SECTION A - (STA. 0+00 TO STA. 0+50)

SCALE: 3/16" = 1'-0"



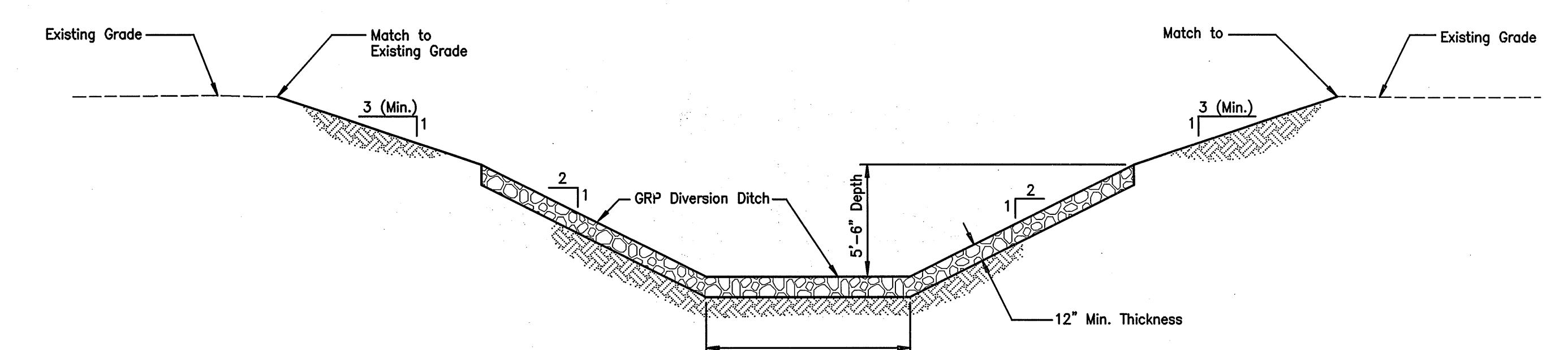
TYPICAL SECTION B - (STA. 0+91.01 TO STA. 3+65.32)

SCALE: 3/16" = 1'-0"



TYPICAL SECTION C - (STA. 4+05 TO STA. 7+50)

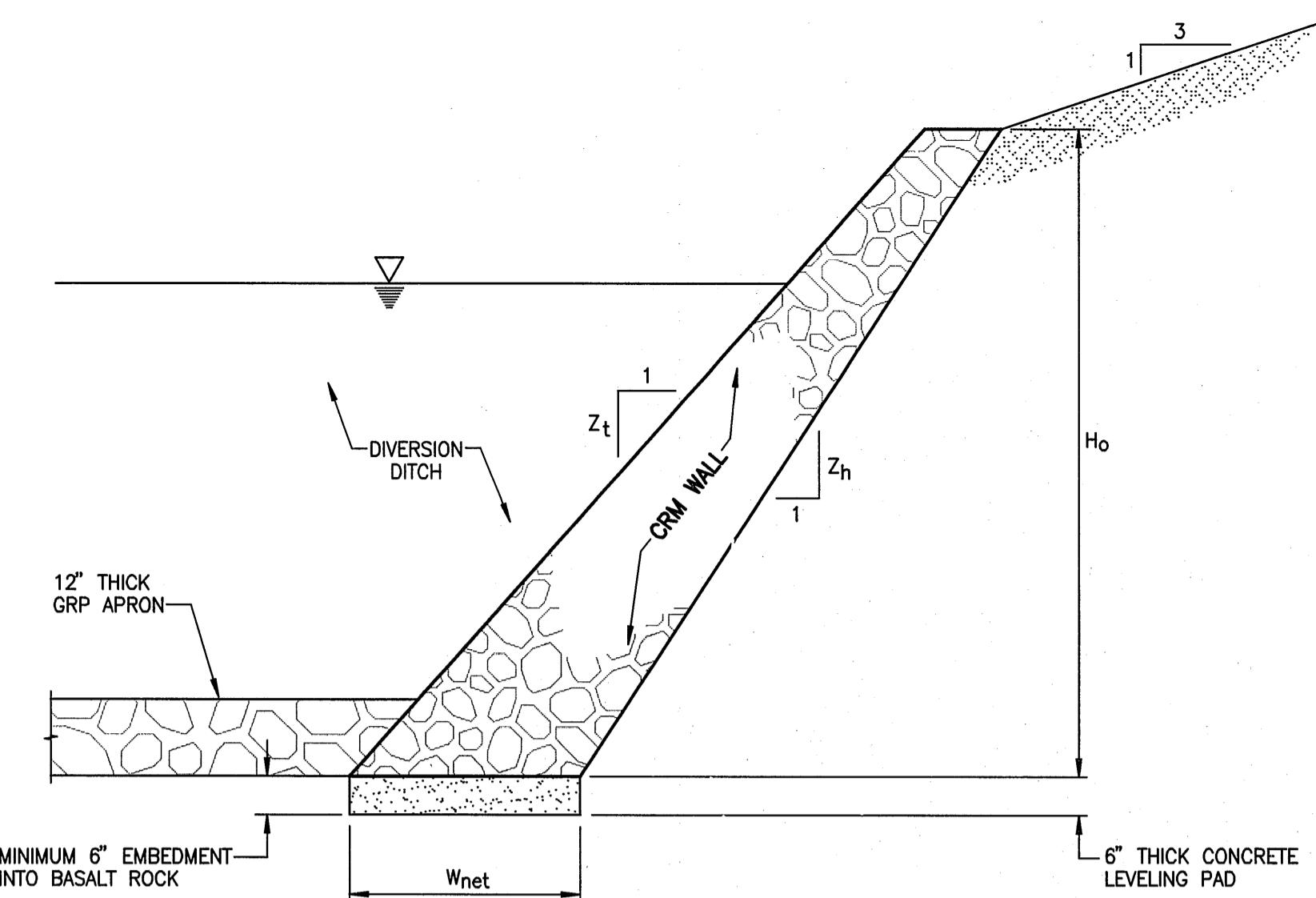
SCALE: 3/16" = 1'-0"



TYPICAL SECTION D - (STA. 7+80 TO STA. 19+30±)

SCALE: 3/16" = 1'-0"

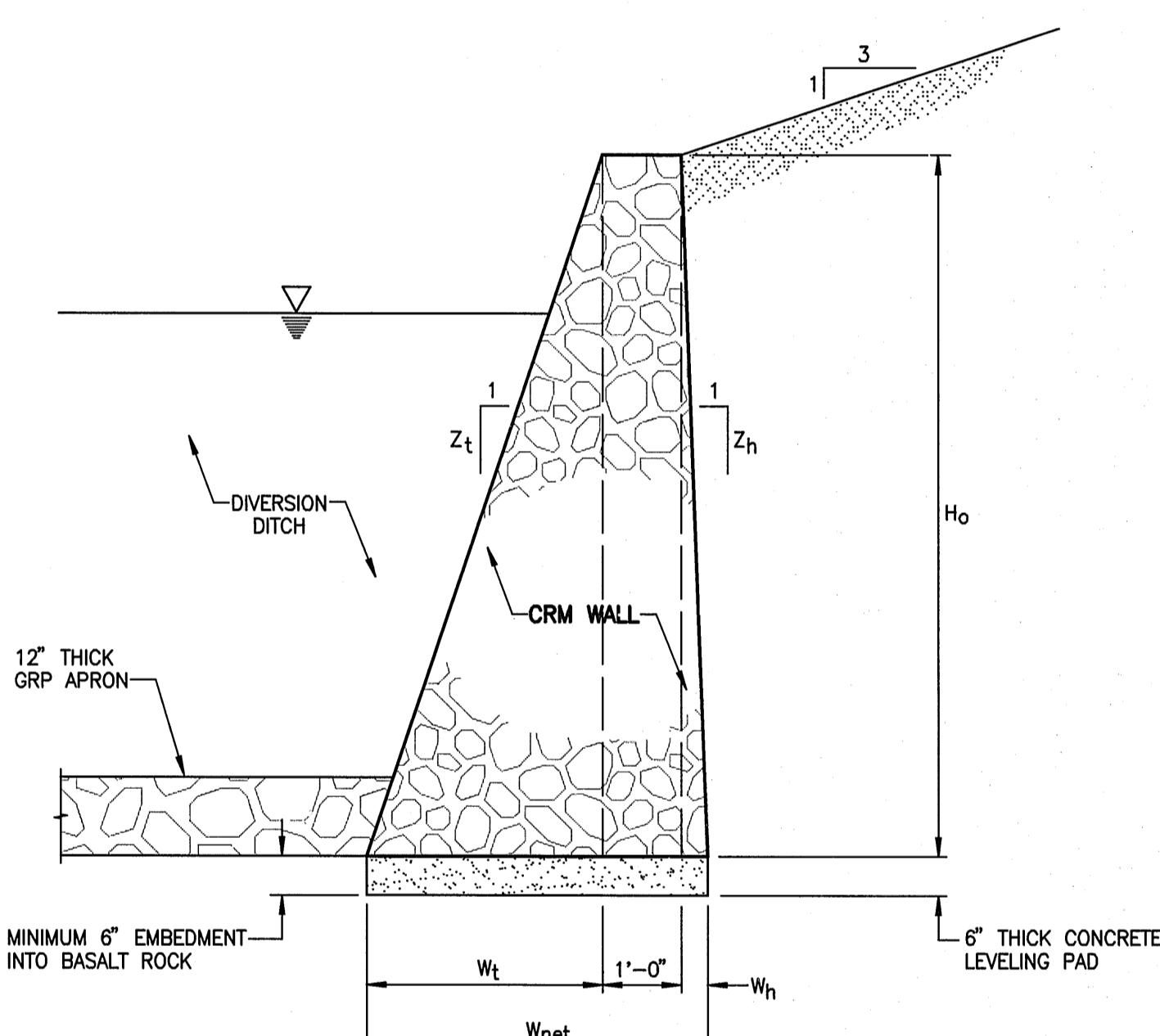
		WARREN S. UNEMORI ENGINEERING, INC.	
		CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793	
		KAONOLU MARKET PLACE T.M.K.: (2) 3-9-01 : 16 KIHEI, MAUI, HAWAII	
TITLE TYPICAL SECTIONS - DIVERSION DITCH			
		SIGNATURE DATE 10/13/03	
<input checked="" type="checkbox"/> DELETED GRP OUTFALL AND STILLING BASIN <input checked="" type="checkbox"/> SECTION E CHANGED TO PYRAMAT TRM		10/16/09 10/22/08	
LETTER	DESCRIPTION	DATE	
DTU DESIGNED BY CHECKED BY WIS DTU DRAWN BY APPROVED BY 10-10-05 SCALE As Shown DATE OF SHEETS			



CROSS-SECTION OF SLOPED RETAINING WALL WITH NEGATIVE HEEL BATTER IN DIVERSION DITCH

BETWEEN STA. 0+50 TO 0+75.63 AND STA. 3+80.20 TO 4+05

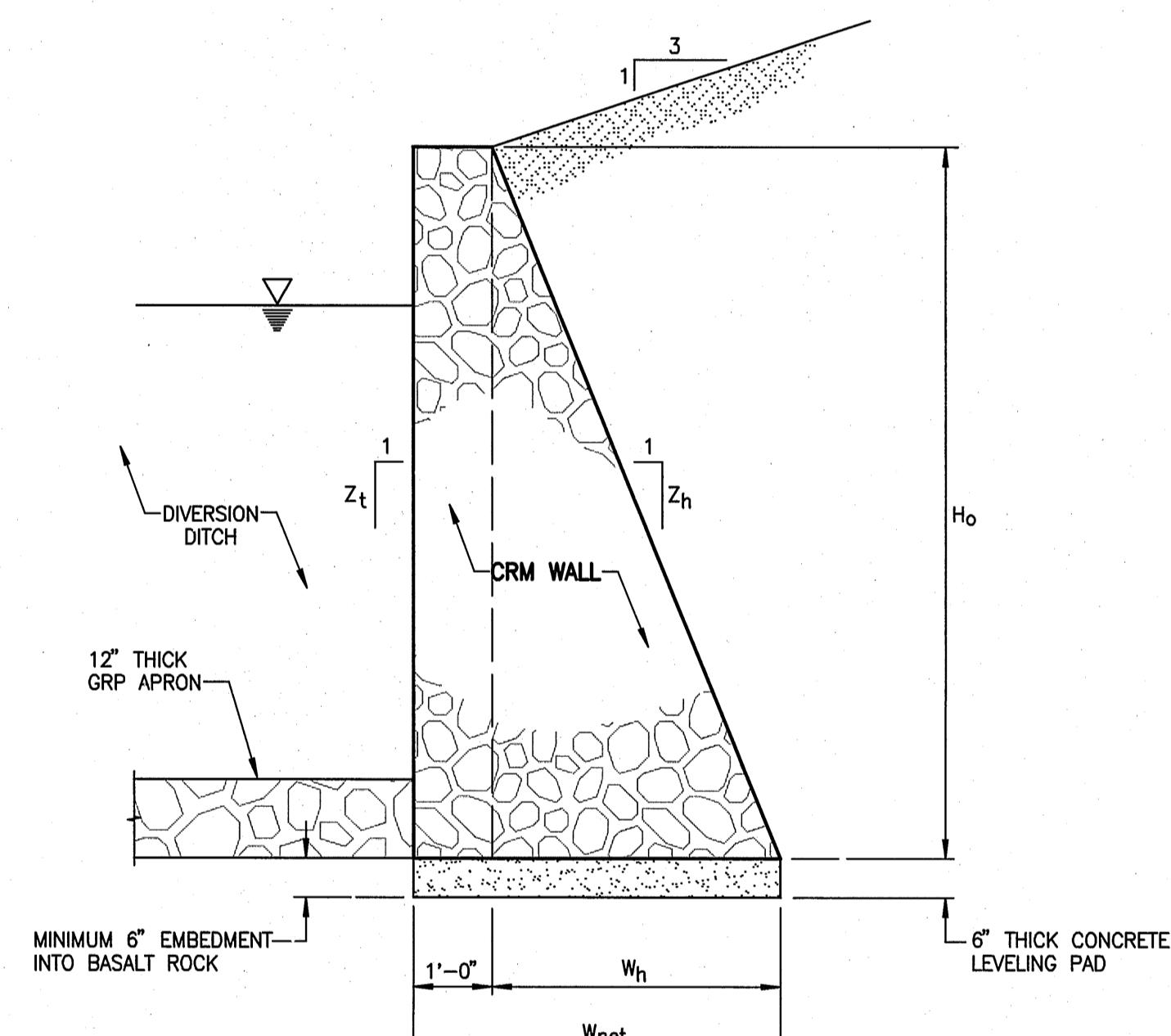
SCALE: 1/2" = 1'-0"



CROSS-SECTION OF SLOPED FACE RETAINING WALL

AND STA. 3+65.32 TO 3+75.24

SCALE: 1/2" = 1'-0"



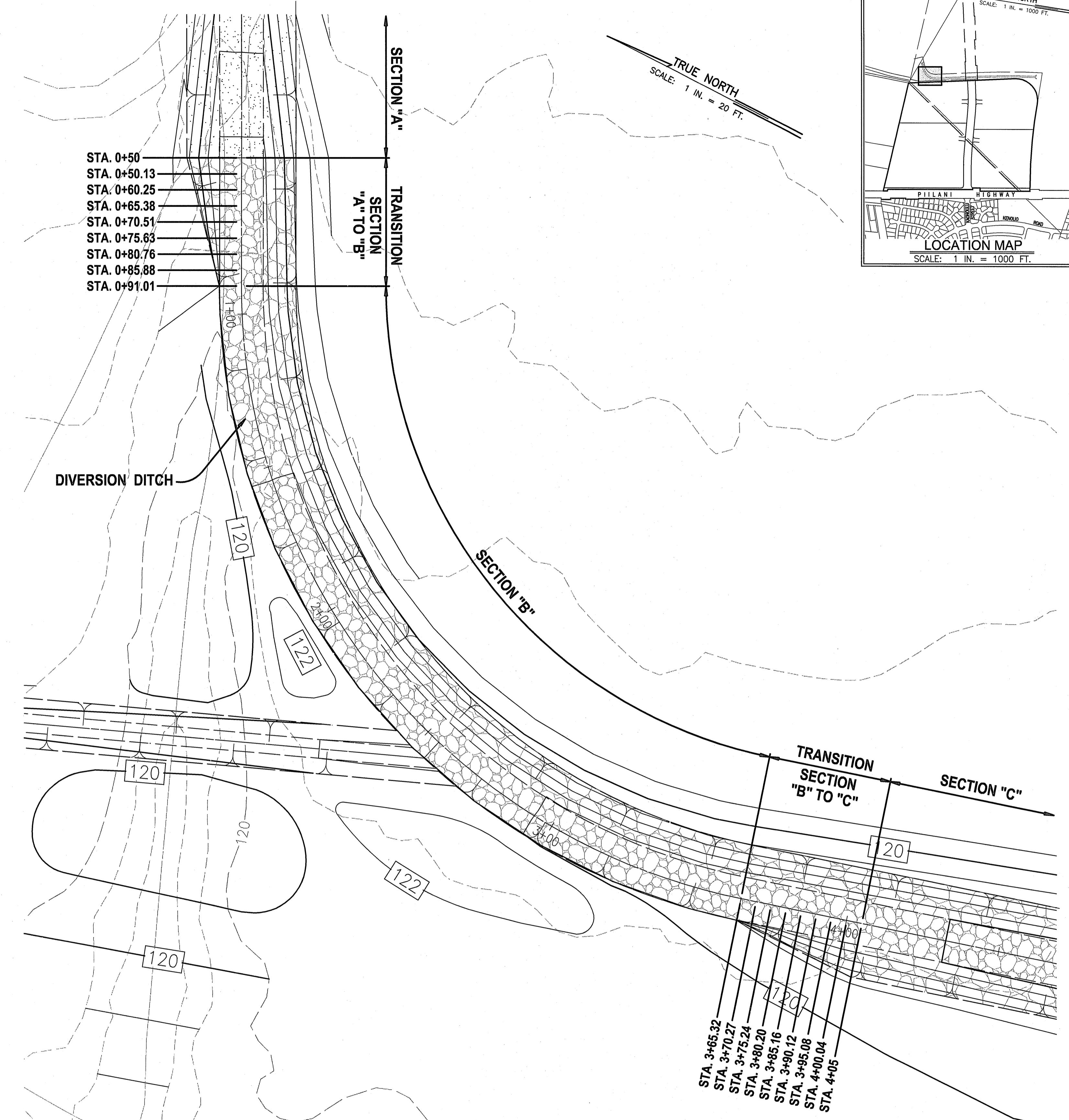
CROSS-SECTION OF VERTICAL FACED RETAINING WALL

IN DIVERSION DITCH STA. 0+91.01 TO 3+65.32

SCALE: 1/2" = 1'-0"

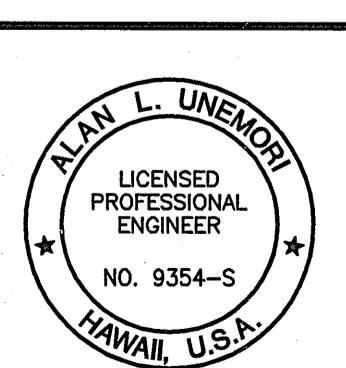
Sta	Wall Height, Ho (ft)	Toe Width	Toe Batter, Zt	Heel Batter, Zh*	Wt	Wh	Leveling Pad Width, Wnet (ft)
0+50	8.00	12.00	0.67	(0.67)	N/A	N/A	1'-2"
0+55.13	8.13	10.50	0.77	(0.85)	N/A	N/A	2'-0"
0+60.25	8.25	9.00	0.92	(1.10)	N/A	N/A	2'-6"
0+65.38	8.38	7.50	1.12	(1.53)	N/A	N/A	3'-0"
0+70.51	8.50	6.00	1.42	(2.50)	N/A	N/A	3'-7"
0+75.63	8.63	4.50	1.92	(7.00)	N/A	N/A	4'-3"
0+80.76	8.75	3.00	2.92	25.00	3'-0"	4"	4'-4"
0+85.88	8.88	1.50	5.92	4.75	1'-6"	1'-10"	4'-4"
0+91.01	9.00	0.00	100.00	2.50	0	3'-8"	4'-8"
3+65.32	9.00	0.00	100.00	2.50	0	3'-8"	4'-8"
3+70.27	8.88	1.50	5.92	4.75	1'-6"	1'-10"	4'-4"
3+75.24	8.75	3.00	2.92	25.00	3'-0"	4"	4'-4"
3+80.20	8.63	4.50	1.92	(7.00)	N/A	N/A	4'-3"
3+85.16	8.50	6.00	1.42	(2.50)	N/A	N/A	3'-7"
3+90.12	8.38	7.50	1.12	(1.53)	N/A	N/A	3'-0"
3+95.08	8.25	9.00	0.92	(1.10)	N/A	N/A	2'-6"
4+00.04	8.13	10.50	0.77	(0.85)	N/A	N/A	2'-0"
4+05	8.00	12.00	0.67	(0.67)	N/A	N/A	1'-2"

* Note: Heel Batters in Parentheses () indicate heel batter is toward



DIVERSION DITCH TRANSITION WALL SECTIONS

SCALE: 1 IN = 20 FT



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WELLS STREET PROFESSIONAL CENTER, SUITE 403
2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

KAUNOOLU MARKET PLACE
M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16
KIHEI, MAUI, HAWAII

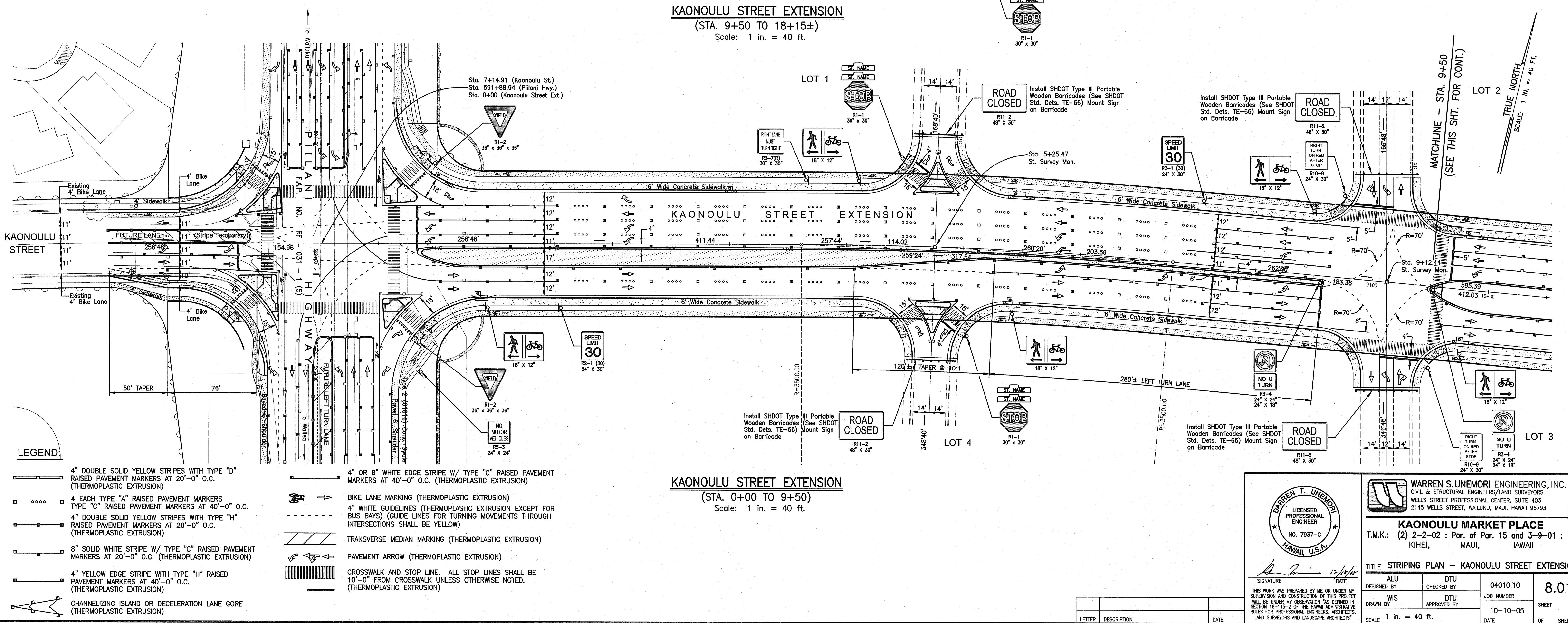
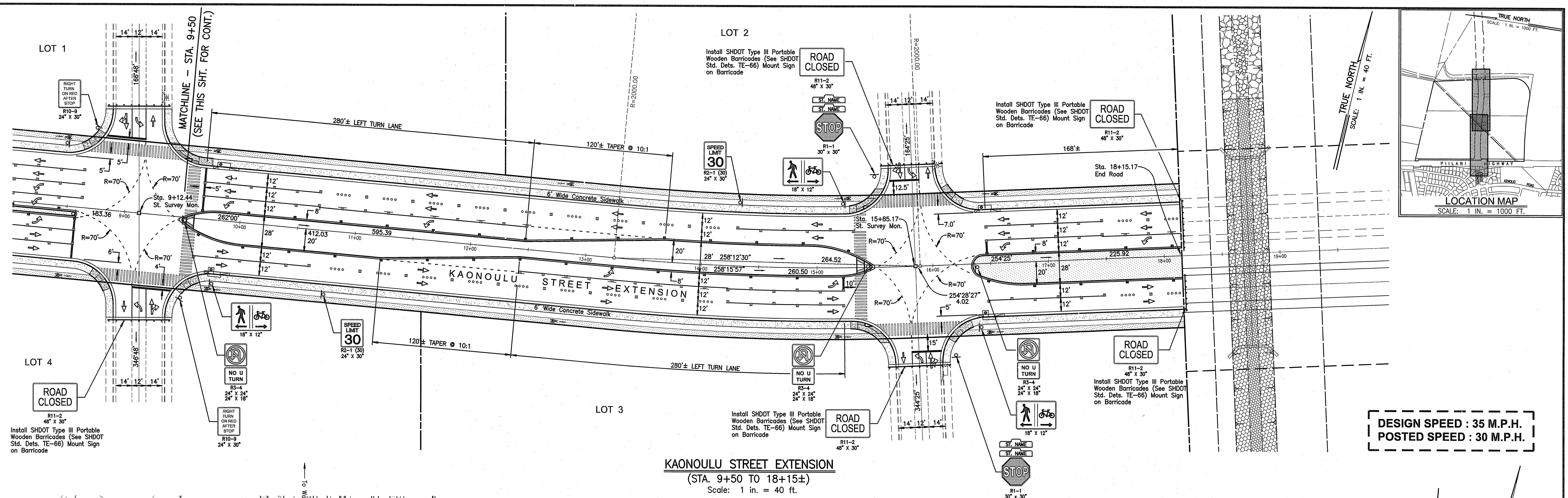
WALL SECTION

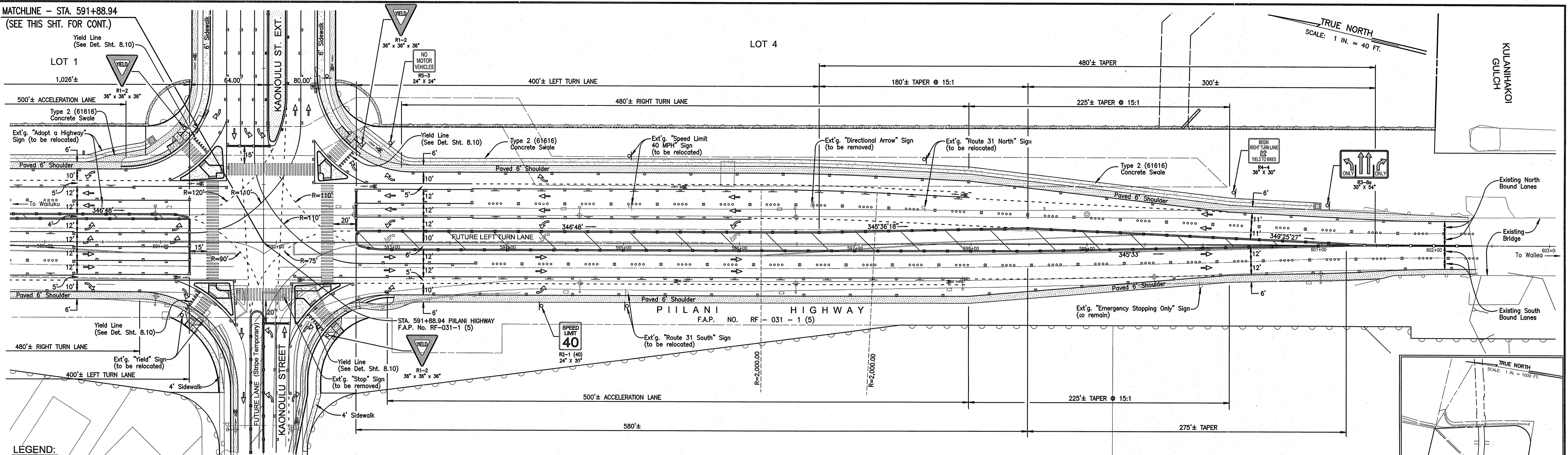
ALU WSU 04010-10

SIGNED BY	CHECKED BY	04010.10	7.14
WIS	WSU	JOB NUMBER	

WIS WSU SHEET
AWN BY APPROVED BY 10-10-05

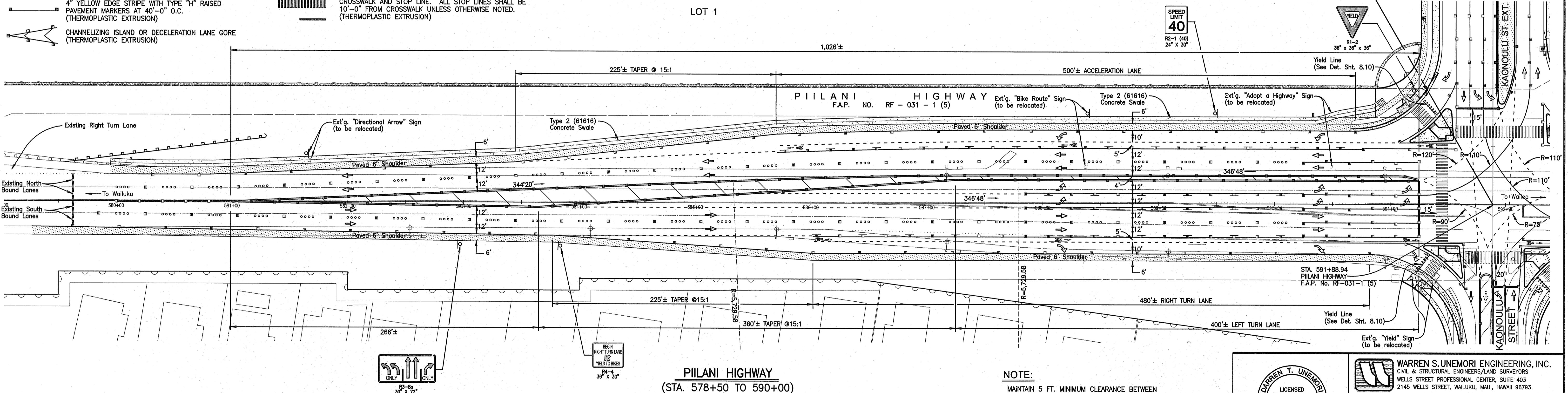
AS NOTED 10-10-03 DATE OF SHEETS





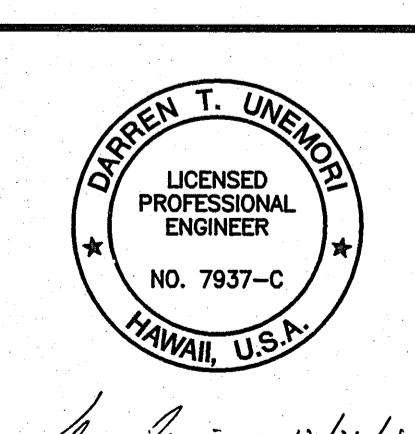
LEGEND:

- 4" DOUBLE SOLID YELLOW STRIPES WITH TYPE "D" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)
- 4 EACH TYPE "A" RAISED PAVEMENT MARKERS TYPE "C" RAISED PAVEMENT MARKERS AT 40'-0" O.C.
- 4" DOUBLE SOLID YELLOW STRIPES WITH TYPE "H" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)
- 8" SOLID WHITE STRIPE W/ TYPE "C" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)
- 4" YELLOW EDGE STRIPE WITH TYPE "H" RAISED PAVEMENT MARKERS AT 40'-0" O.C. (THERMOPLASTIC EXTRUSION)
- CHANNELIZING ISLAND OR DECELERATION LANE GORE (THERMOPLASTIC EXTRUSION)



NOTE:
MAINTAIN 5 FT. MINIMUM CLEARANCE BETWEEN TRAVELWAY STRIPING AND FACE OF CURB AT PEDESTRIAN ISLANDS.

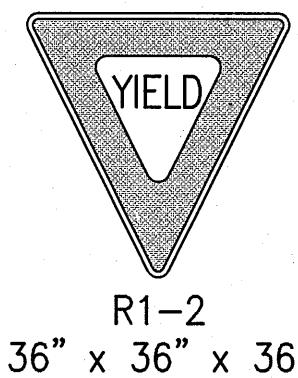
**DESIGN SPEED : 45 M.P.H.
POSTED SPEED : 40 M.P.H.**



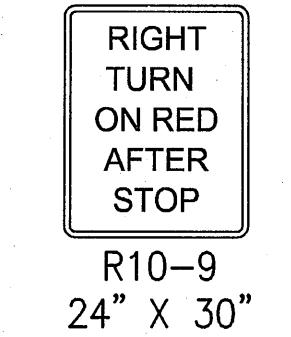
WARREN S. UNEMORI ENGINEERING, INC.
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KAONOLU MARKET PLACE
T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16
KIHEI, MAUI, HAWAII

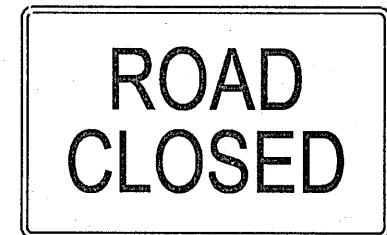
TITLE: STRIPING PLAN - PIILANI HIGHWAY
ALU **DTU**
DESIGNED BY CHECKED BY
WIS **DTU**
DRAWN BY APPROVED BY
04010.10 JOB NUMBER 8.02
10-10-05 SHEET OF SHEETS
SCALE 1 in. = 40 ft. DATE



R1-2
36" x 36" x 36"



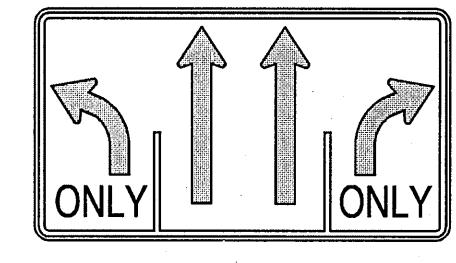
R10-9
24" X 30"



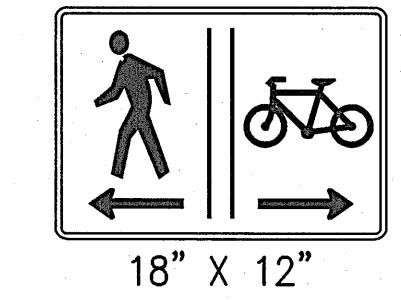
R11-2
48" X 30"



R3-4
24" X 24"
24" X 18"



R3-8a
30" X 54"



18" X 12"



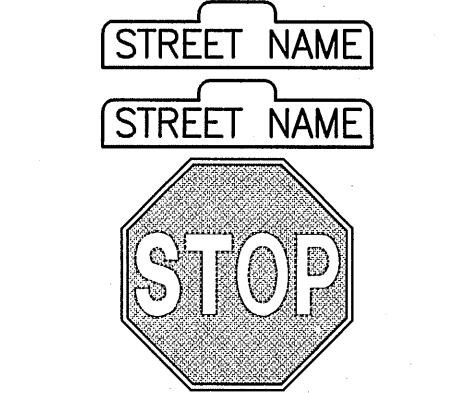
R3-7(R)
30" X 30"



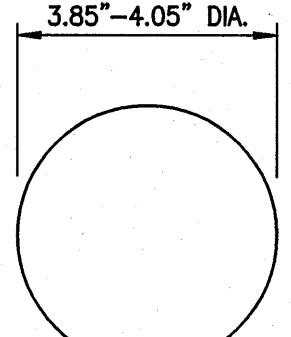
30 MPH SPEED
LIMIT SIGN R2-1
24" X 30"



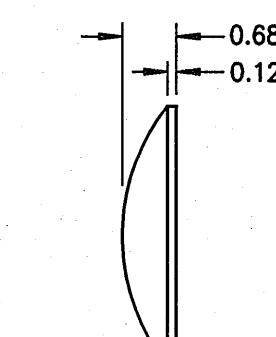
R4-4
36" X 30"



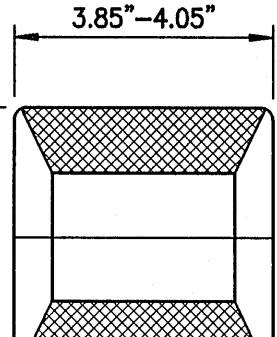
STREET NAME
STOP SIGN W/STREET NAMES & NOS.
R1-1
30" x 30"



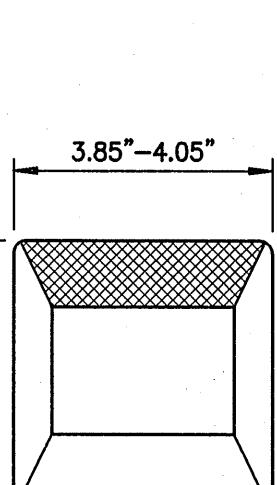
TYPE "A"
NON-REFLECTIVE WHITE MARKER



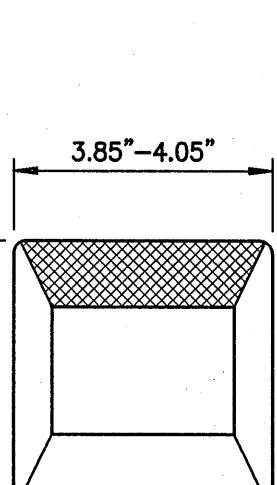
TYPE "J"
NON-REFLECTIVE YELLOW MARKER



TYPE "C"
RED-CLEAR REFLECTIVE MARKER



TYPE "D"
TWO-WAY YELLOW REFLECTIVE MARKER



TYPE "H"
ONE-WAY YELLOW REFLECTIVE MARKER

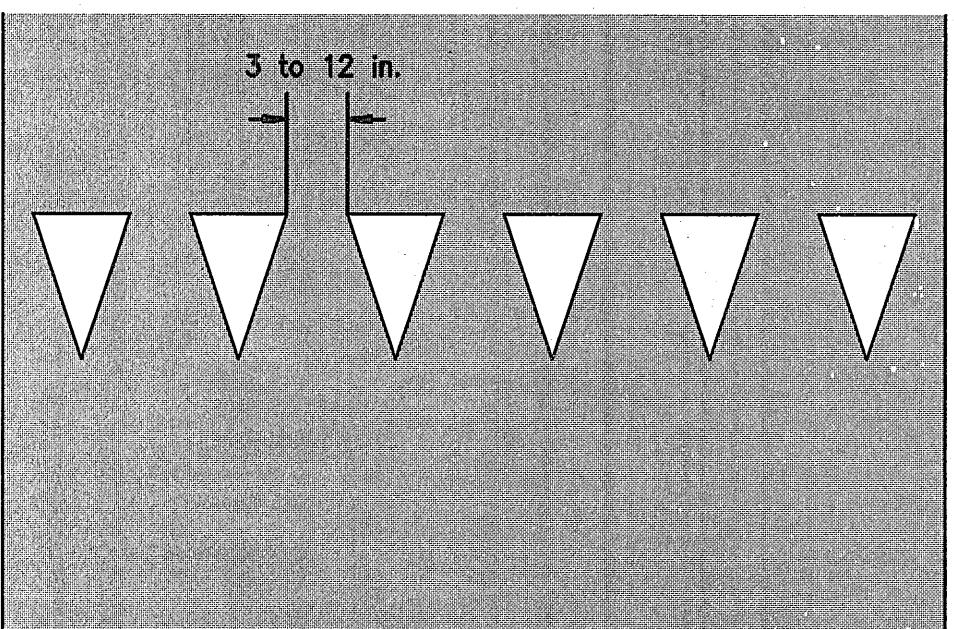
NOTE:

"PAINTED ON" TRAFFIC SIGNS WILL NOT BE PERMITTED.

RAISED PAVEMENT MARKER DETAILS

NOT TO SCALE

details/roads/reflec00.dwg



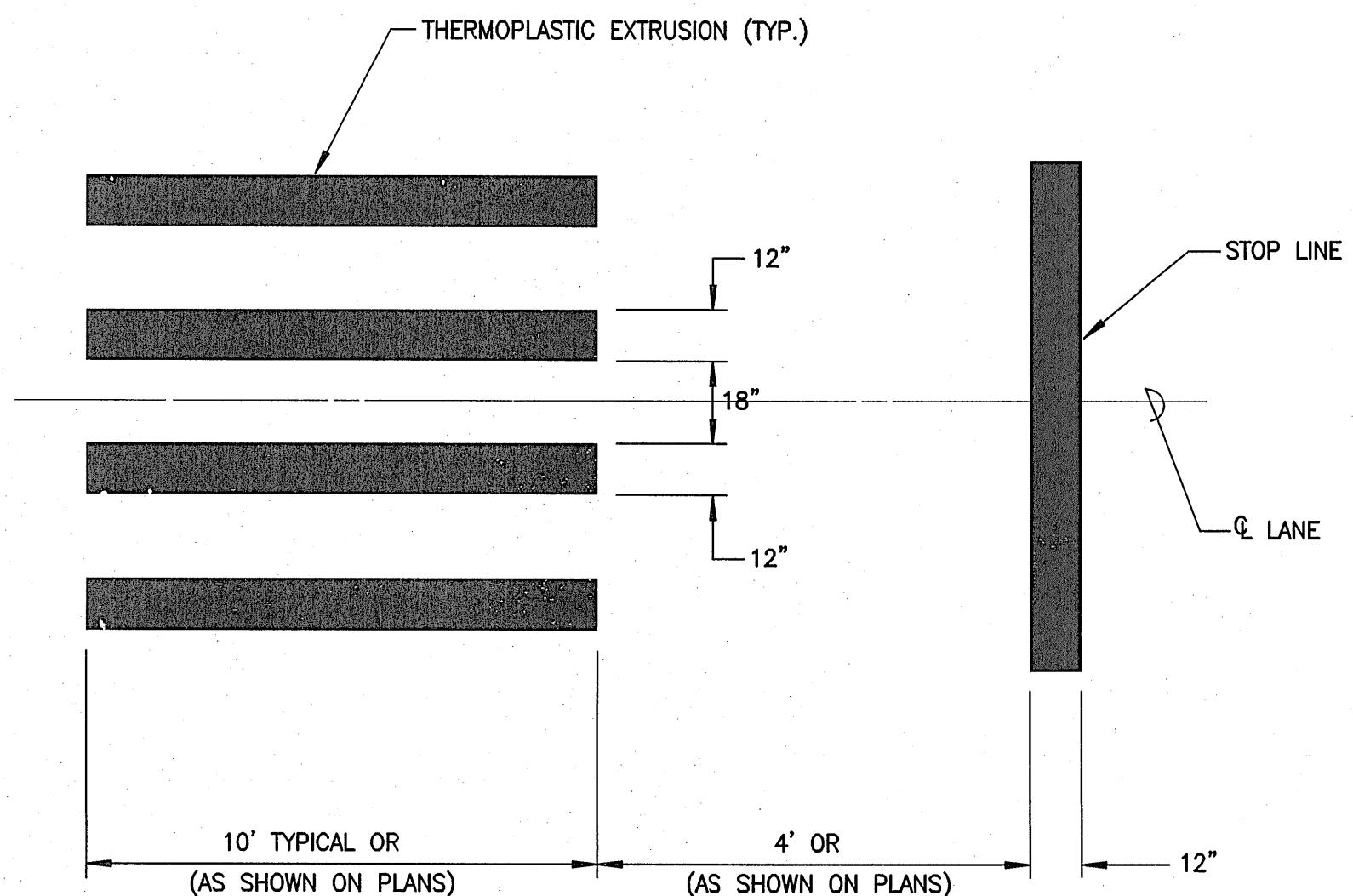
DIRECTION OF TRAVEL

DETAIL - YIELD LINE LAYOUT

NOT TO SCALE

NOTES:

1. TRIANGLE HEIGHT IS EQUAL TO 1.5 TIMES THE BASE DIMENSION.
2. YIELD LINES MAY BE SMALLER THAN SUGGESTED WHEN INSTALLED ON NARROWER, SLOW-SPEED FACILITIES SUCH AS SHARED-USE PATHS.

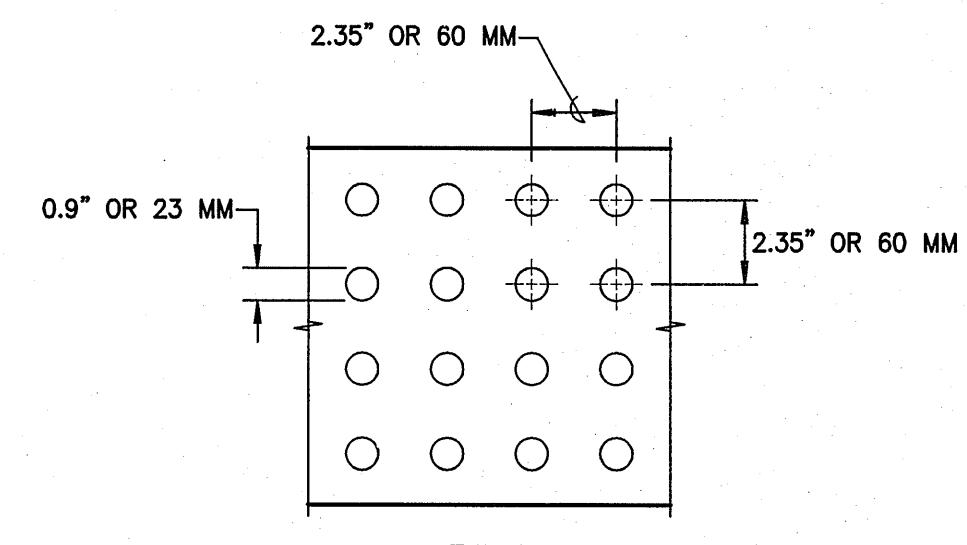


CROSSWALK STRIPING DETAIL

NOT TO SCALE

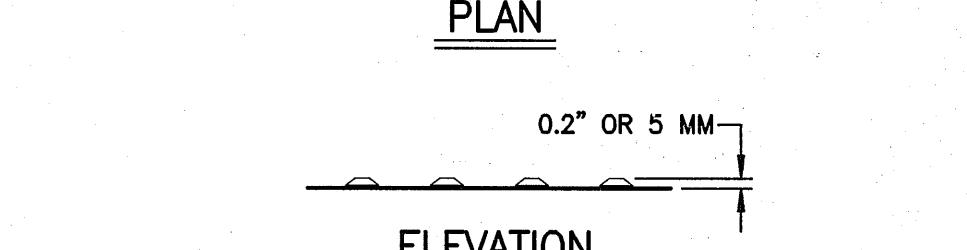
NOTES:

1. FOR LOCATION OF SIGNS AND MARKINGS AT INTERSECTION, SEE INTERSECTION DETAILS.
2. ALL SIGNS AND PAVEMENT MARKINGS AND STRIPING SHALL CONFORM TO THE LATEST EDITION OF THE U.S. DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION PUBLICATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AND AS AMENDED.
3. ALL CONSTRUCTION WORK AND MATERIALS SHALL CONFORM TO THE LATEST REVISION OF THE STANDARD DETAIL DRAWINGS AND STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND PUBLIC WORK CONSTRUCTION.
4. LAYOUT OF PAVEMENT MARKINGS AND STRIPING SHALL BE DONE BY THE CONTRACTOR. THE CONTRACTOR SHALL CHECK LAYOUT OF MARKINGS AND STRIPING WITH THE STATE OF HAWAII PRIOR TO PERFORMING WORK.
5. EDGE LINES SHALL NOT BE CONTINUED THROUGH INTERSECTIONS UNLESS OTHERWISE SHOWN OR DIRECTED.
6. ALL EXISTING STRIPING SHALL BE ERADICATED BY GRINDING.

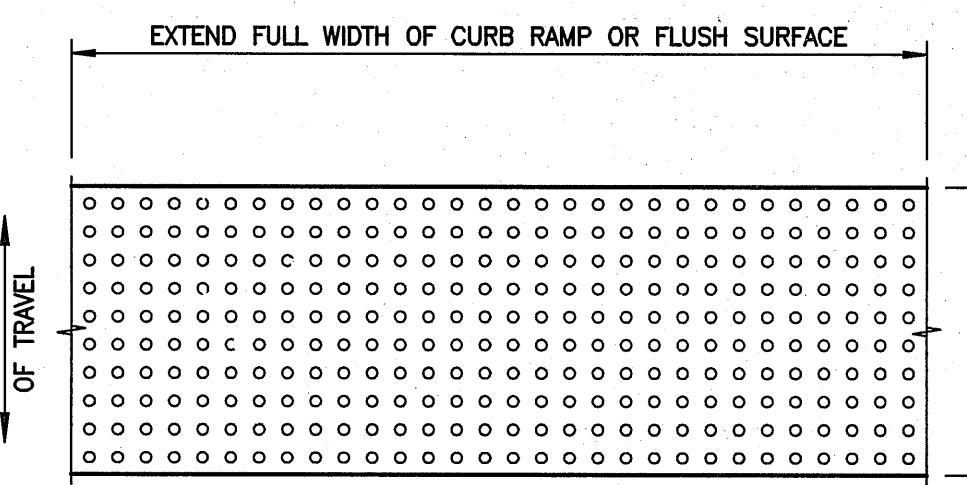


NOTES:

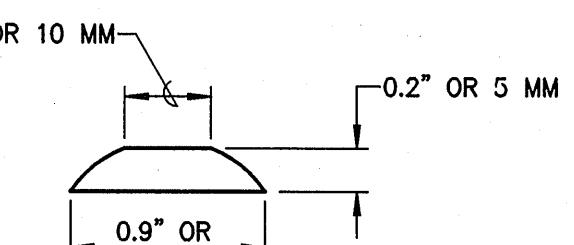
1. SIZE: DETECTABLE WARNINGS SHALL BE 24 INCHES (610 MM) IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.
2. LOCATION: THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES (150 TO 205 MM) FROM CURB LINE OR OTHER POTENTIAL HAZARD.
3. DOME SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A DIAMETER OF 0.9 INCH (23 MM) AT THE BOTTOM, A DIAMETER OF 0.4 INCH (10 MM) AT THE TOP, A HEIGHT OF 0.2 INCH (5 MM) AND A CENTER-TO-CENTER SPACING OF 2.35 INCHES (60 MM) MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT.
4. DOME ALIGNMENT: DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
5. VISUAL CONTRAST: THERE SHALL BE A MINIMUM OF 70 PERCENT CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AND AN ADJOINING SURFACE, OR THE DETECTABLE WARNING SHALL BE "SAFETY YELLOW". THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.
6. SEE SITE SPECIFIC WHEELCHAIR RAMP DETAILS ON SHEETS



DETAIL - DOME SPACING



PLAN - DOME ALIGNMENT



SECTION - TYPICAL DOME

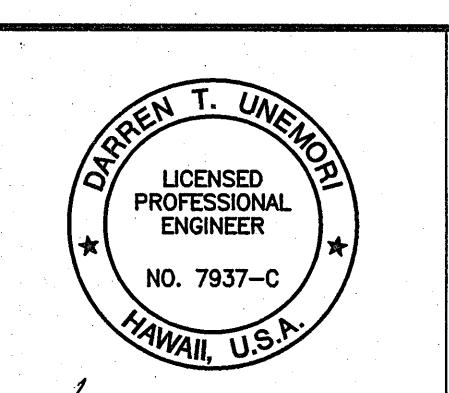
DETAIL - DETECTABLE WARNING ON CURB RAMPS

NOT TO SCALE

details/roads/curb-warning.dwg

GENERAL NOTES

1. SIGNS SHALL CONFORM TO THE LATEST EDITIONS OF FHWA PUBLICATIONS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," "STANDARD ALPHABETS FOR HIGHWAY SIGNS," AND "STANDARD HIGHWAY SIGNS," AND AS AMENDED.
2. ALL SIGNS SHALL BE MADE OF HIGH INTENSITY REFLECTIVE SHEETING MATERIALS.
3. PAVEMENT WORDING SHALL CONFORM TO, DOT STANDARD PLAN TE-35.
4. ALL WORK AND MATERIALS REQUIRED TO COMPLETE THE AC PAVING, SIGNS, AND MARKINGS SHALL CONFORM TO THE REQUIREMENTS THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND PUBLIC WORKS CONSTRUCTION 1994".

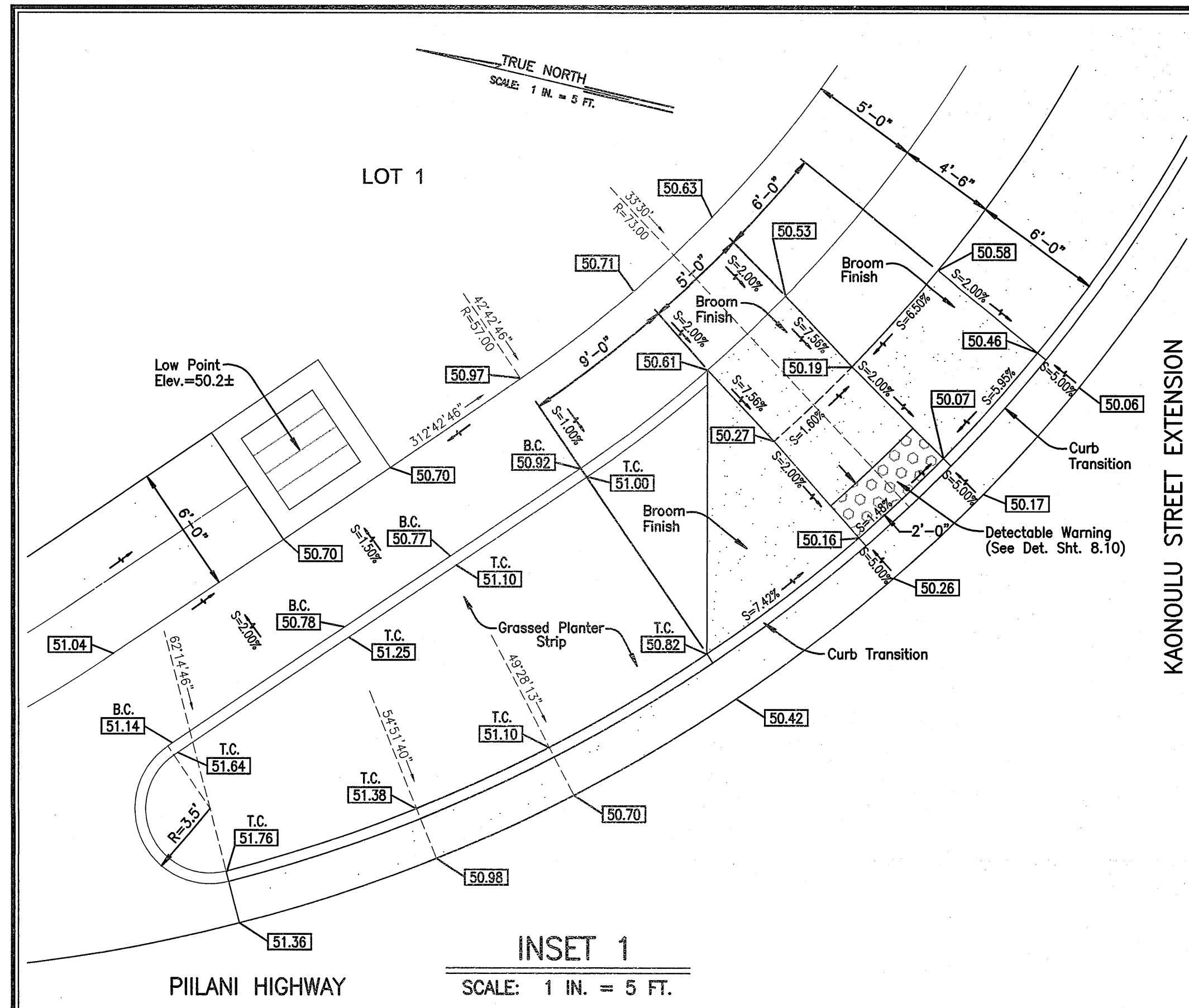


WARREN S. UNEMORI ENGINEERING, INC.
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KAONOLU MARKET PLACE
T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16
KIHEI, MAUI, HAWAII

STRIPING DETAILS		DATE	04010.10	8.10
DESIGNED BY	DTU	CHECKED BY		
WIS	DTU	APPROVED BY		
DRAWN BY	DTU	APPROVED BY		
SCALE	AS NOTED	DATE	10-10-05	OF SHEETS

SIGNATURE
DATE
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE IN ACCORDANCE WITH THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND PUBLIC WORKS CONSTRUCTION 1994" AS AMENDED. I AGREE TO FOLLOW THE HAWAII STATE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS RULES FOR PROFESSIONAL PRACTICE."

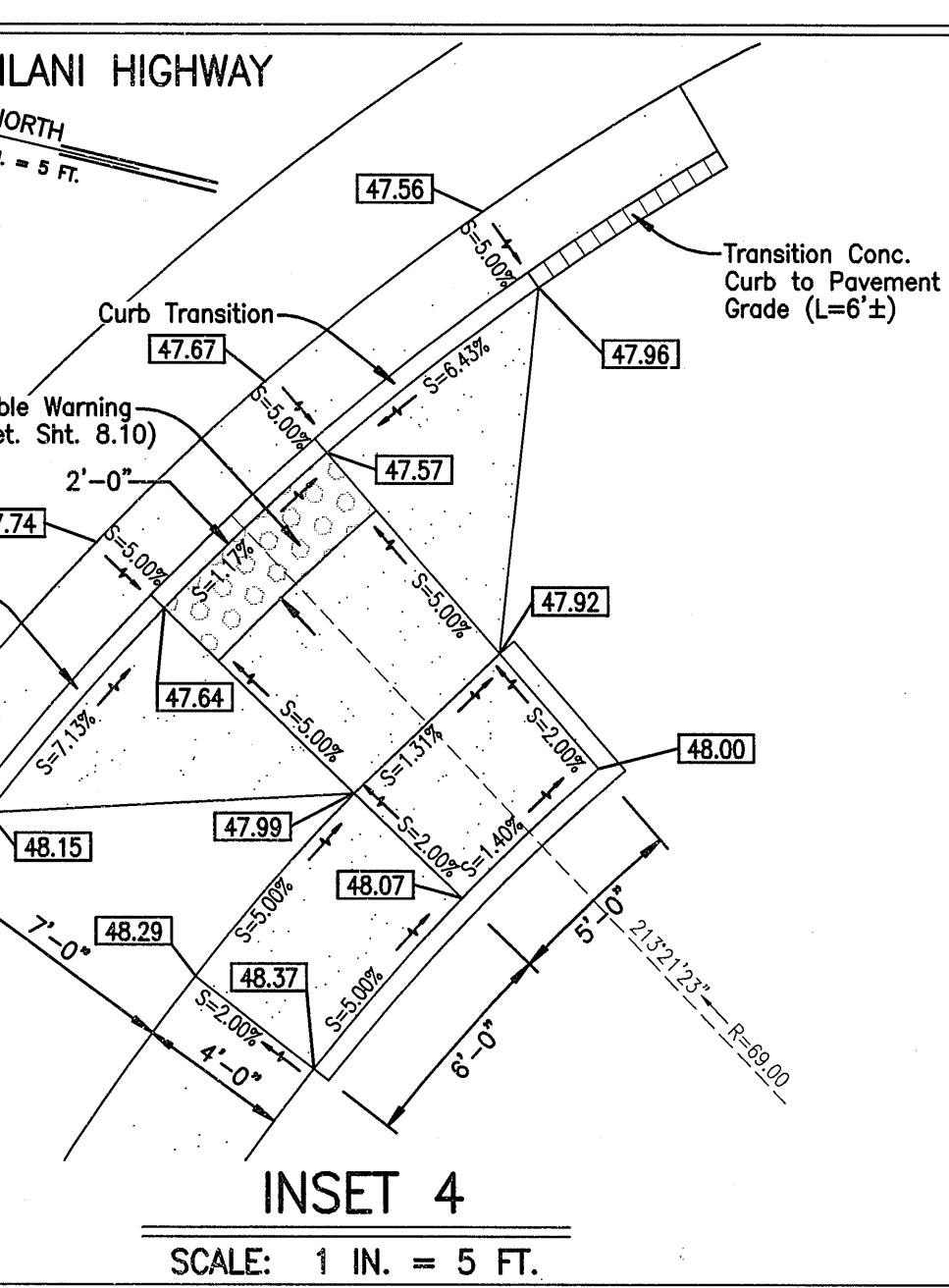
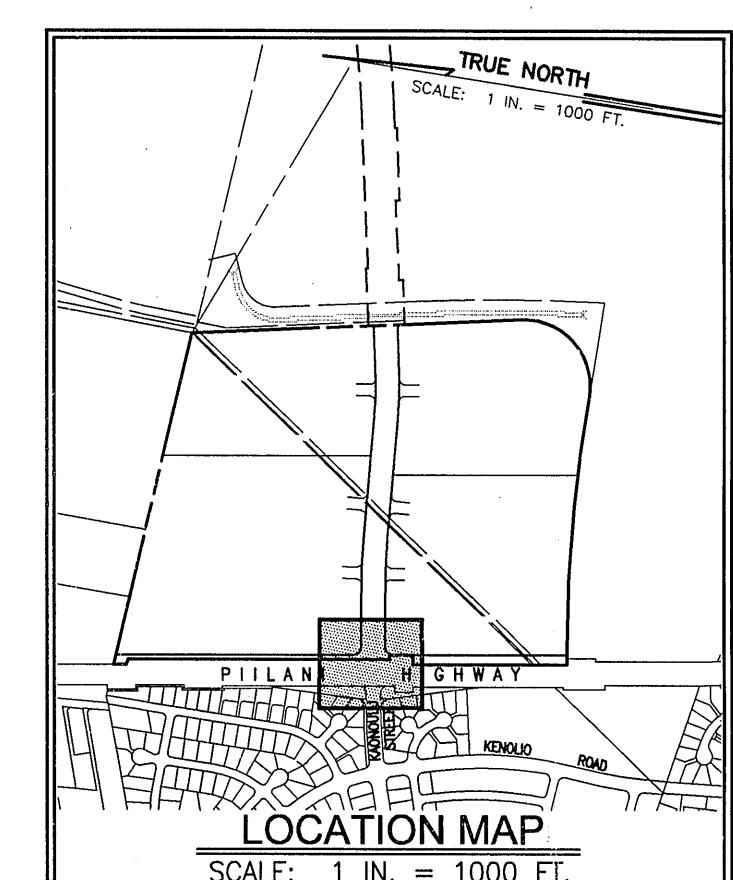
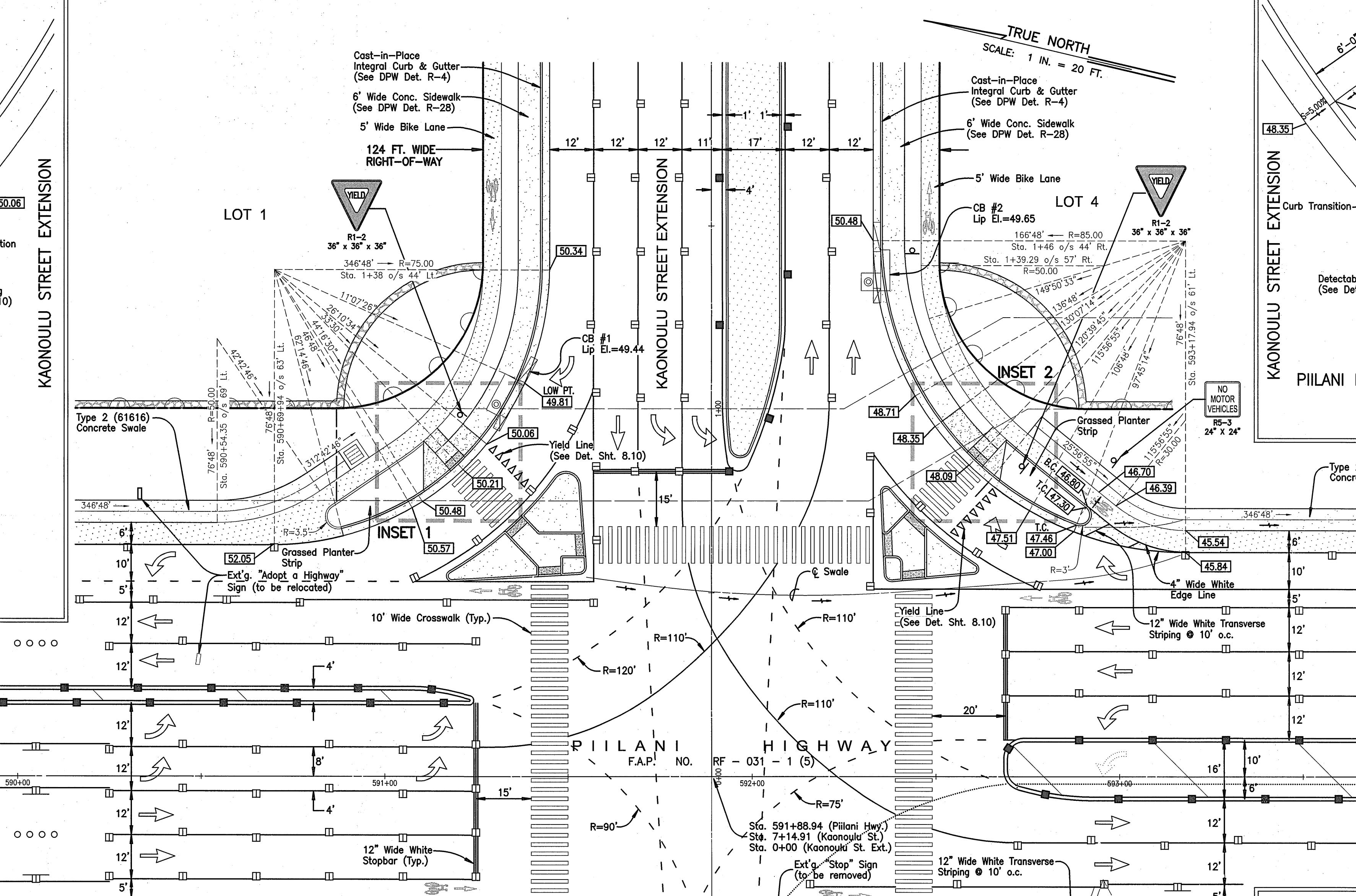
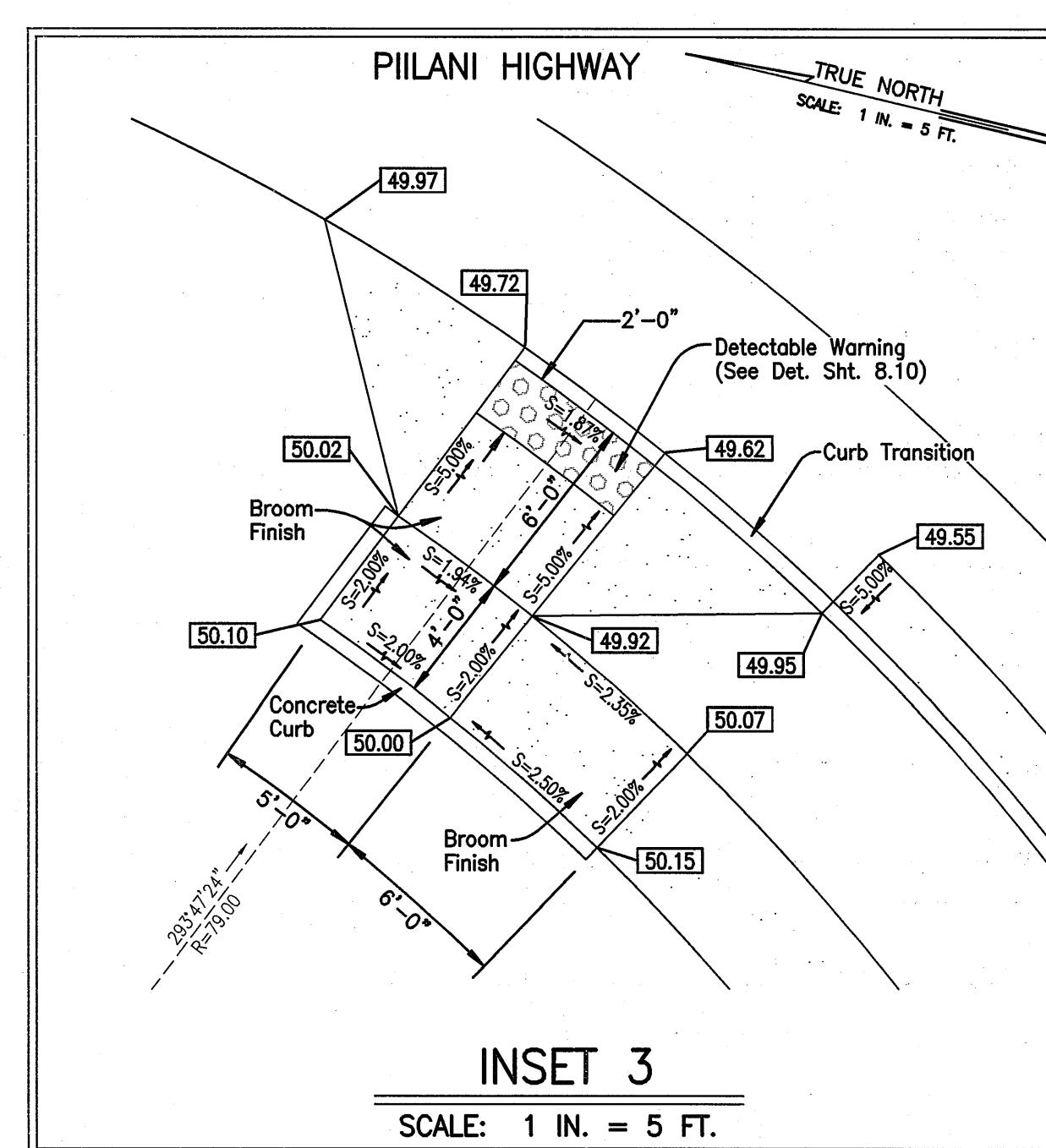


NOTES:

- FINISH GRADE SPOT ELEVATIONS, INDICATED ON CONSTRUCTION PLANS, FOR EDGE OF PAVEMENT SHALL BE USED FOR THE PURPOSE OF DETERMINING INITIAL EDGE OF PAVEMENT PROFILE. CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS REQUIRED, DURING CONSTRUCTION, SO THE FINAL PROFILE SATISFIES THE FOLLOWING CONDITIONS:
 - DRAINAGE PATTERN AS INDICATED ON CONSTRUCTION PLANS SHALL BE MAINTAINED.
 - PROFILE OF TRANSITION ALONG EDGE OF PAVEMENT FROM STREET TO STREET SHALL BE UNIFORM AND SMOOTH.
- UPON COMPLETION OF LAYOUT OF THE INITIAL EDGE OF PAVEMENT PROFILE, CONTRACTOR SHALL CONTACT ENGINEER FOR APPROVAL, PRIOR TO PROCEEDING WITH ANY FURTHER WORK, OTHERWISE ANY CORRECTIVE WORK REQUIRED BY THE ENGINEER WILL BE DONE AT CONTRACTOR'S EXPENSE.
- SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES & MAUI COUNTY TRAFFIC CODE.
- EXISTING LONGITUDINAL DRAINAGE PATTERN SHOWN ON INTERSECTION DETAILS SHALL BE MAINTAINED AT ALL TIMES.
- STREET NAMES MAY NOT BE AS SHOWN ON PLANS. CONTRACTOR TO VERIFY STREET NAMES WITH ENGINEER PRIOR TO ORDERING MATERIALS.
- TRAFFIC STRIPING AND MARKING SHALL BE WITH THERMOPLASTIC EXTRUSION.
- TRAFFIC SIGNS SHALL BE WITH ALUMINUM SIGN BLANKS AND WITH HIGH INTENSITY SHEETING.
- DURING EXISTING SIDEWALK AND SHOULDER IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE NECESSARY ADJUSTMENTS TO ACCOMMODATE BICYCLISTS AND PEDESTRIANS AND SHALL MAINTAIN AN ACCESSIBLE ROUTE AT ALL TIMES.
- RAISED PEDESTRIAN ISLANDS IN MARKED CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET.

LEGEND:

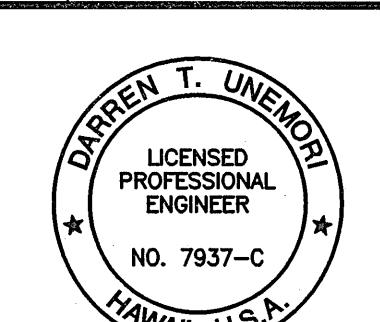
- 4" DOUBLE SOLID YELLOW STRIPES WITH TYPE "D" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)
- 4 EACH TYPE "A" RAISED PAVEMENT MARKERS TYPE "C" RAISED PAVEMENT MARKERS AT 40'-0" O.C.
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- 8" SOLID WHITE STRIPE W/ TYPE "C" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)
- 4" YELLOW EDGE STRIPE W/ TYPE "H" RAISED PAVEMENT MARKERS AT 40'-0" O.C. (THERMOPLASTIC EXTRUSION)
- CHANNELIZING ISLAND OR DECELERATION LANE GORE (THERMOPLASTIC EXTRUSION)
- 4" OR 8" WHITE EDGE STRIPE W/ TYPE "C" RAISED PAVEMENT MARKERS AT 40'-0" O.C. (THERMOPLASTIC EXTRUSION)
- BIKE LANE MARKING (THERMOPLASTIC EXTRUSION)
- 4" WHITE GUIDELINES (THERMOPLASTIC EXTRUSION EXCEPT FOR BUS BAYS) (GUIDE LINES FOR TURNING MOVEMENTS THROUGH INTERSECTIONS SHALL BE YIELD)
- TRANSVERSE MEDIAN MARKING (THERMOPLASTIC EXTRUSION)
- PAVEMENT ARROW (THERMOPLASTIC EXTRUSION)
- CROSSWALK AND STOP LINE. ALL STOP LINES SHALL BE 10'-0" FROM CROSSWALK UNLESS OTHERWISE NOTED. (THERMOPLASTIC EXTRUSION)



INTERSECTION PIILANI HWY / KAONOLU ST. EXT.

Scale: 1 in. = 20 ft.

LETTER	DESCRIPTION	DATE
A	Spot Elevation and Curb Ramp Revisions	10/21/09

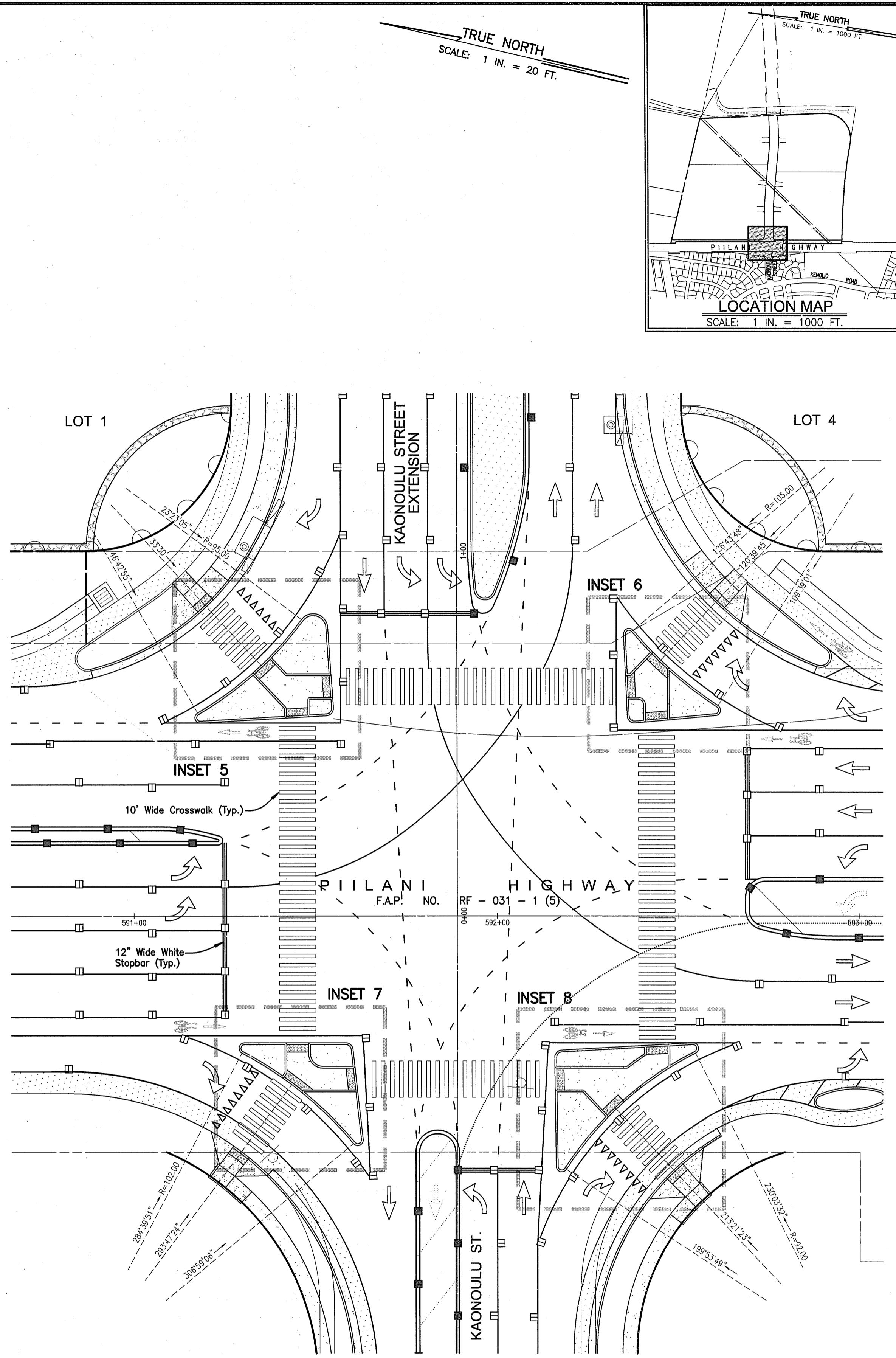
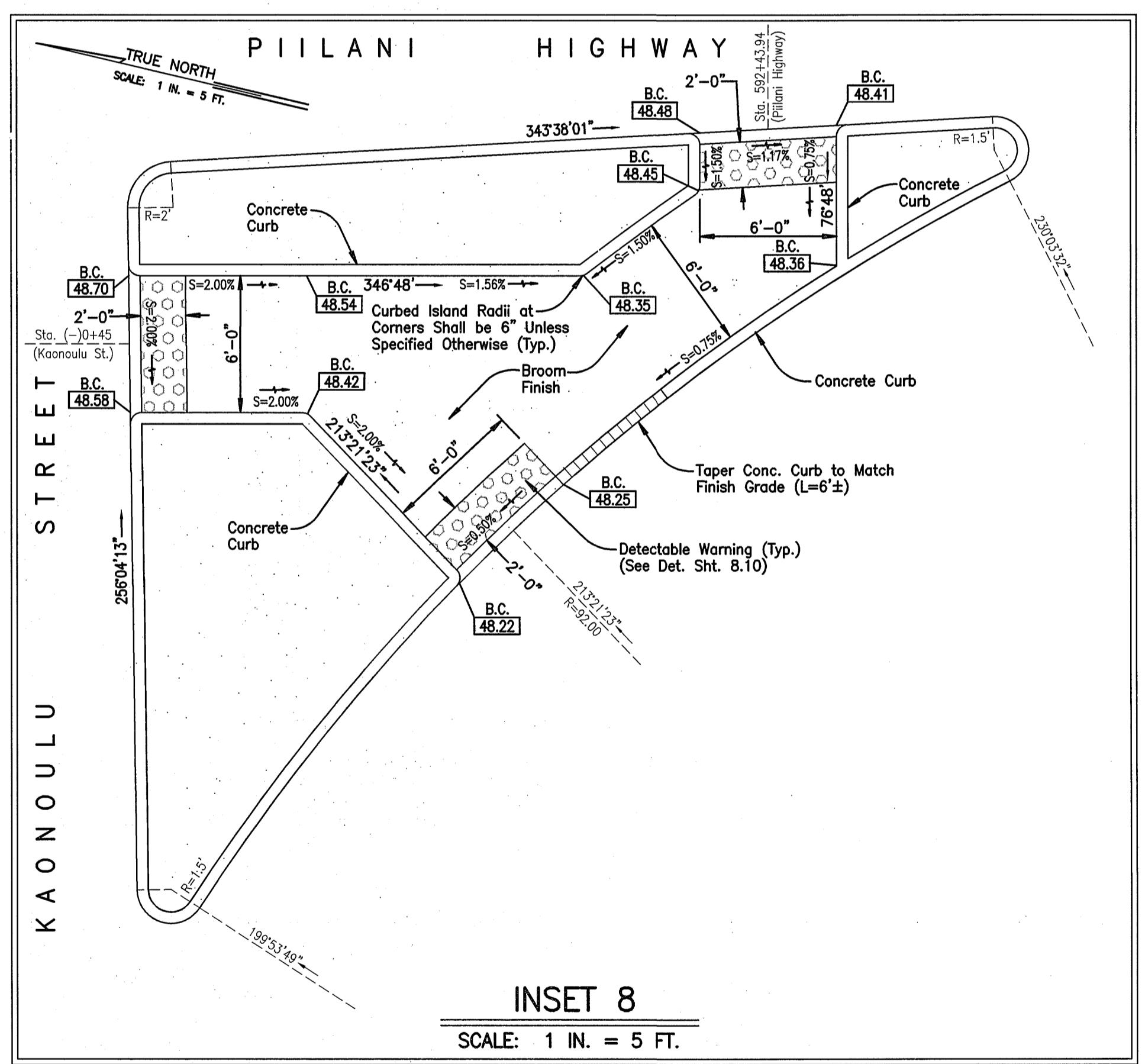
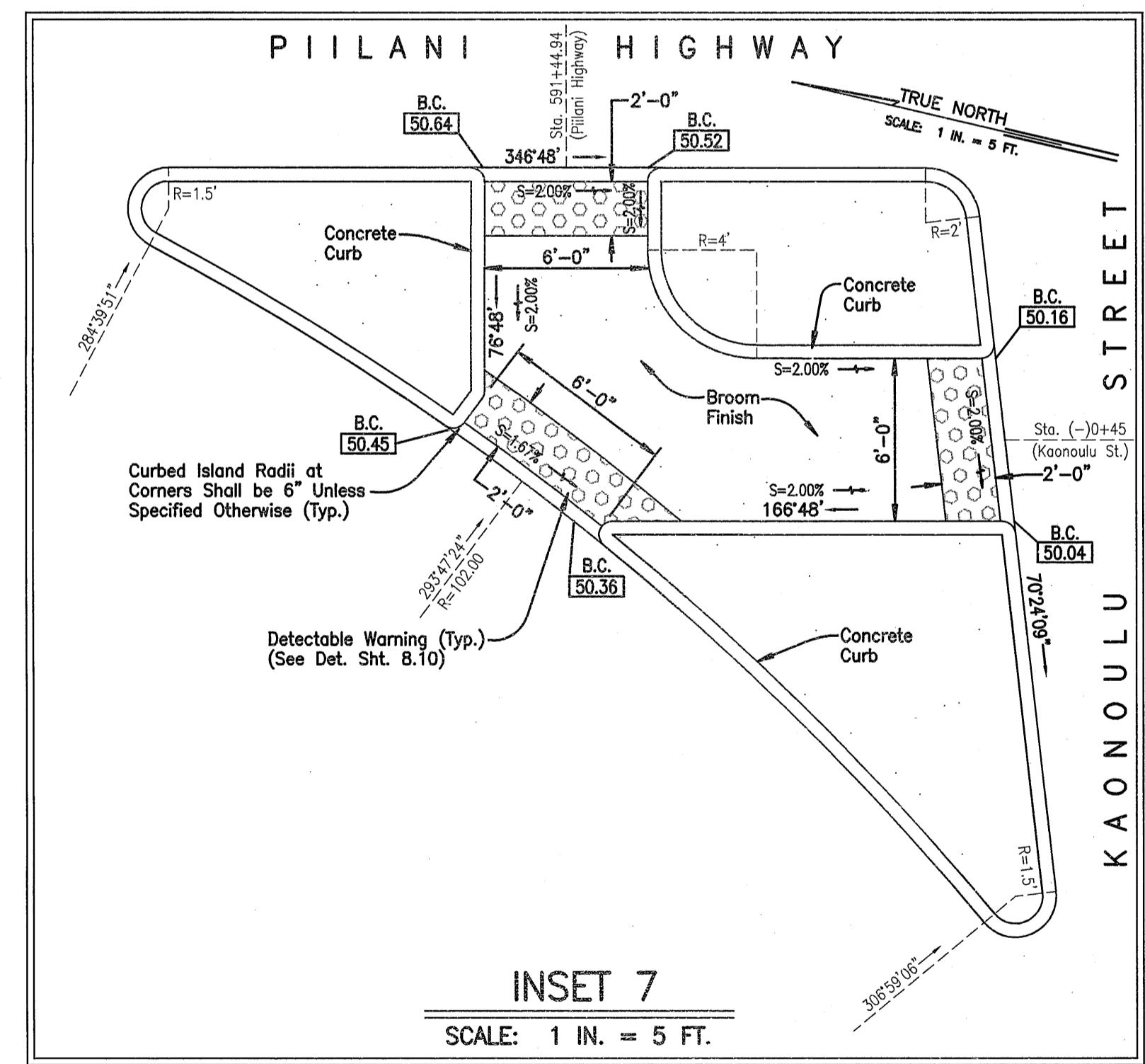
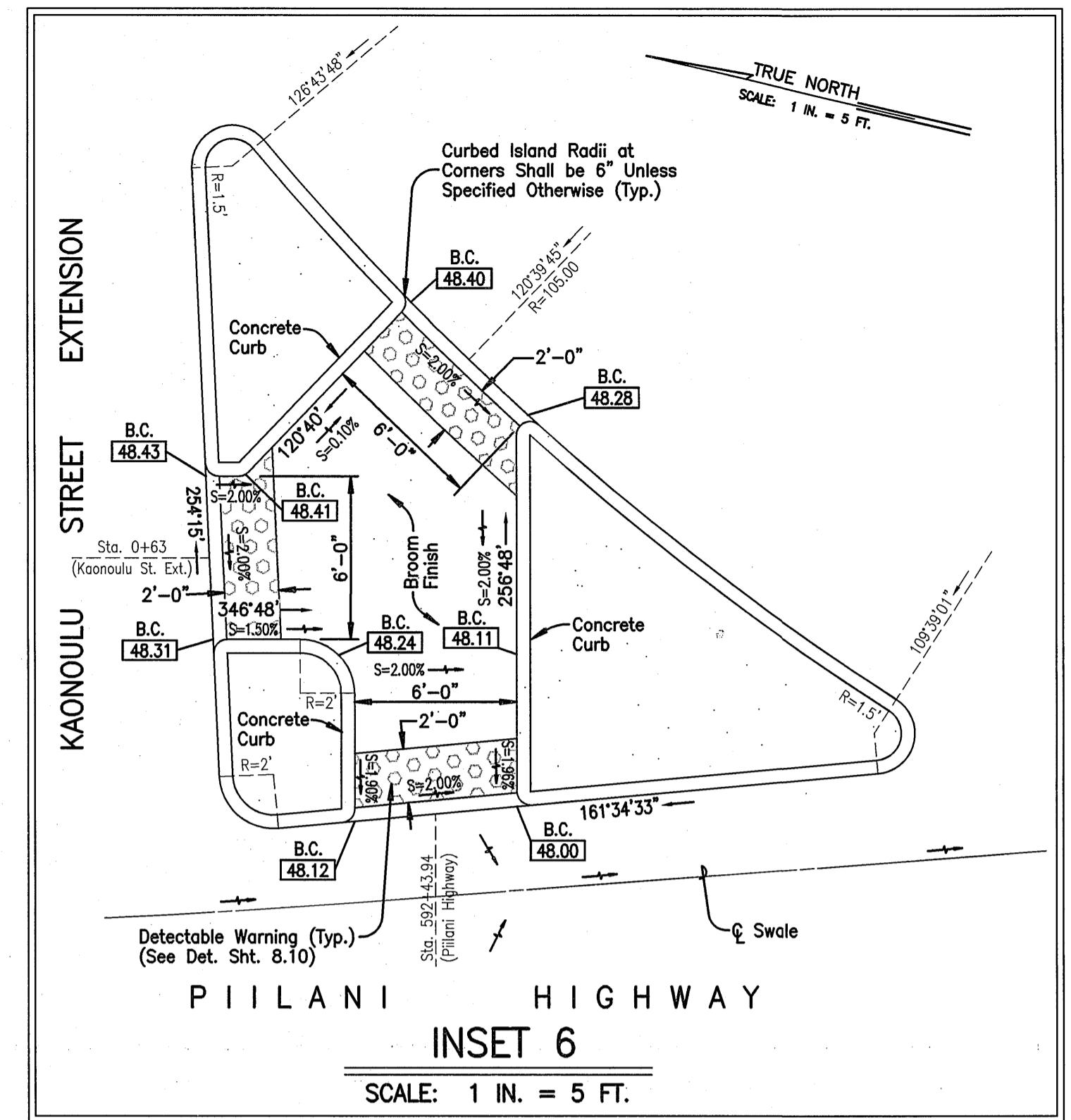
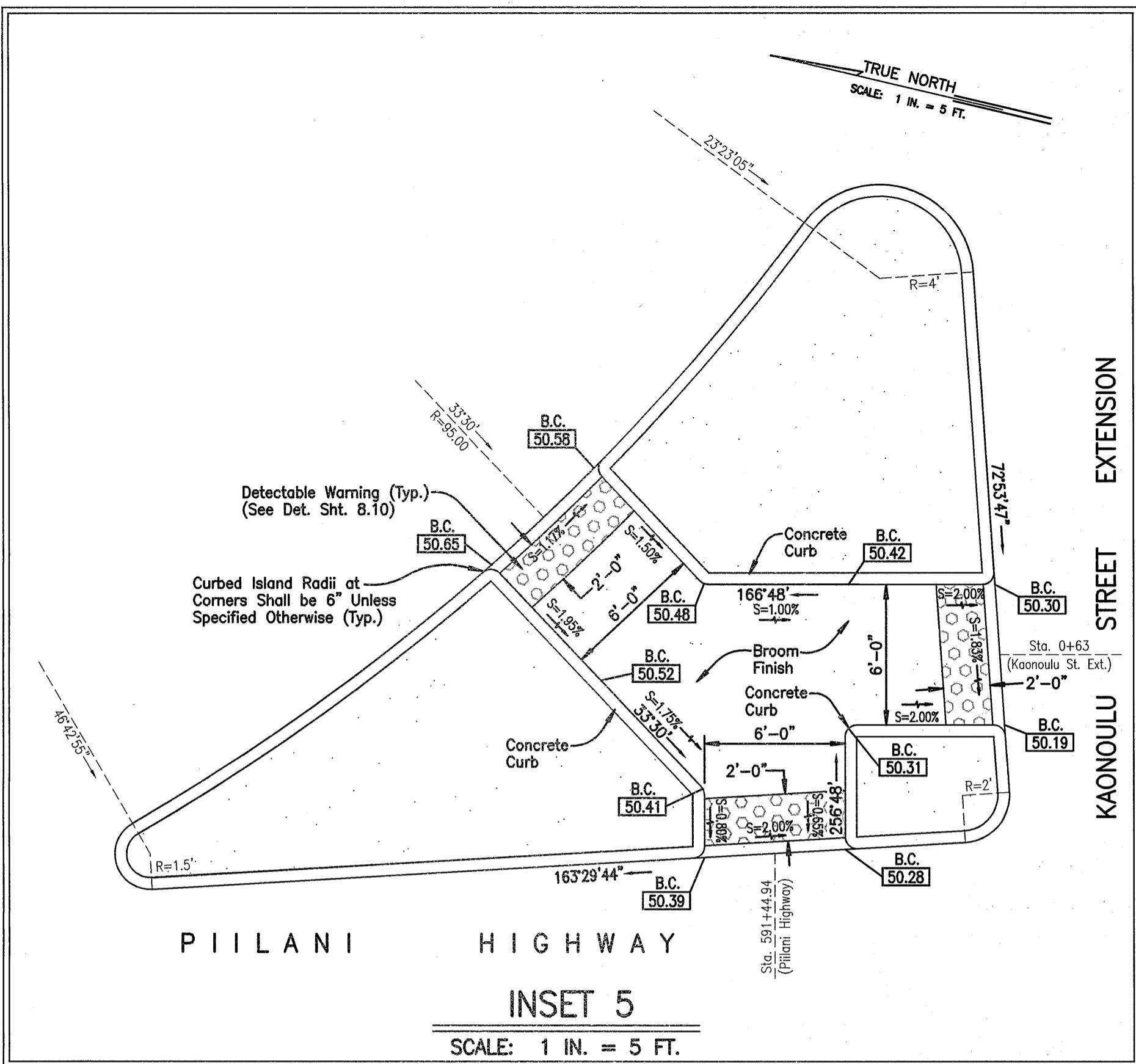


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KAONOLU MARKET PLACE
T.M.K.: (2) 3-9-01 : 16
KIHEI, MAUI, HAWAII

TITLE			INTERSECTION DETAILS	
DESIGNED BY	WIS	CHECKED BY	DTU	APPROVED BY
10-10-05			04010.10	9.01A
DATE			JOB NUMBER	HEET

SCALE 1 in. = 20 ft.



LEGEND:

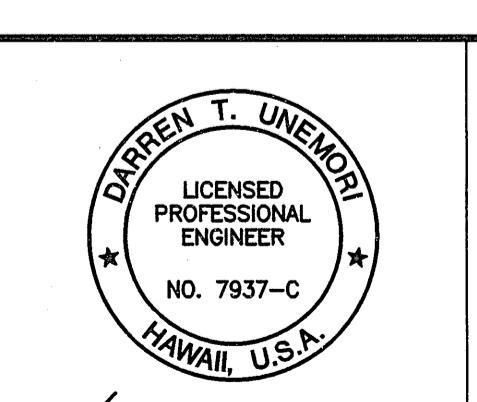
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- 4 EACH TYPE "A" RAISED PAVEMENT MARKERS
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- 4" WHITE GUIDELINES (THERMOPLASTIC EXTRUSION EXCEPT FOR BUS BAYS) (GUIDE LINES FOR TURNING MOVEMENTS THROUGH INTERSECTIONS SHALL BE YELLOW)
- TRANSVERSE MEDIAN MARKING (THERMOPLASTIC EXTRUSION)
- PAVEMENT ARROW (THERMOPLASTIC EXTRUSION)
- CROSSWALK AND STOP LINE. ALL STOP LINES SHALL BE 10'-0" FROM CROSSWALK UNLESS OTHERWISE NOTED. (THERMOPLASTIC EXTRUSION)

NOTES:

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 - A. DRAINAGE PATTERN AS INDICATED ON CONSTRUCTION PLANS SHALL BE MAINTAINED.
 - B. PROFILE OF TRANSITION ALONG EDGE OF PAVEMENT FROM STREET TO STREET SHALL BE UNIFORM AND SMOOTH.
- UPON COMPLETION OF LAYOUT OF THE INITIAL EDGE OF PAVEMENT PROFILE, CONTRACTOR SHALL CONTACT ENGINEER FOR APPROVAL. PRIOR TO PROCEEDING WITH ANY FURTHER WORK, OTHERWISE ANY CORRECTIVE WORK REQUIRED BY THE ENGINEER WILL BE DONE AT CONTRACTOR'S EXPENSE.
2. SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES & MAUI COUNTY TRAFFIC CODE.

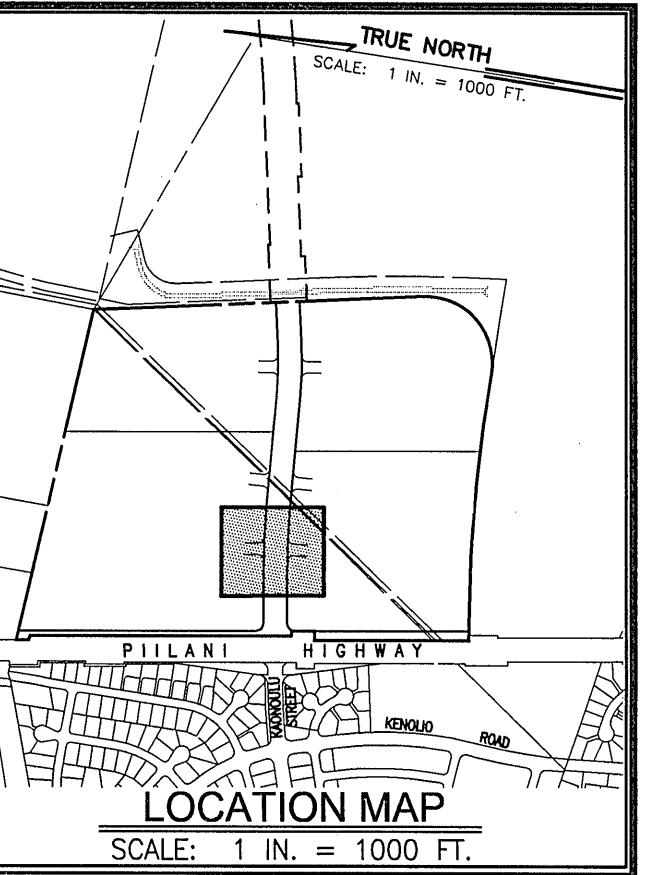
3. EXISTING LONGITUDINAL DRAINAGE PATTERN SHOWN ON INTERSECTION DETAILS SHALL BE MAINTAINED AT ALL TIMES.
4. STREET NAMES MAY NOT BE AS SHOWN ON PLANS. CONTRACTOR TO VERIFY STREET NAMES WITH ENGINEER PRIOR TO ORDERING MATERIALS.
5. TRAFFIC STRIPING AND MARKING SHALL BE WITH THERMOPLASTIC EXTRUSION.
6. TRAFFIC SIGNS SHALL BE WITH ALUMINUM SIGN BLANKS AND WITH HIGH INTENSITY SHEETING.
7. DURING EXISTING SIDEWALK AND SHOULDER IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE NECESSARY ADJUSTMENTS TO ACCOMMODATE BICYCLISTS AND PEDESTRIANS AND SHALL MAINTAIN AN ACCESSIBLE ROUTE AT ALL TIMES.
8. RAISED PEDESTRIAN ISLANDS IN MARKED CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET.



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KAONOLU MARKET PLACE
T.M.K.: (2) 3-9-01 : 16
KIHEI, MAUI, HAWAII

TITLE INTERSECTION DETAILS			
SIGNATURE	DATE	ALU	DTU
DESIGNED BY	CHECKED BY	WIS	DTU
DRAWN BY	APPROVED BY		
SCALE 1 in. = 20 ft.	DATE	04010.10	JOB NUMBER 9.01B



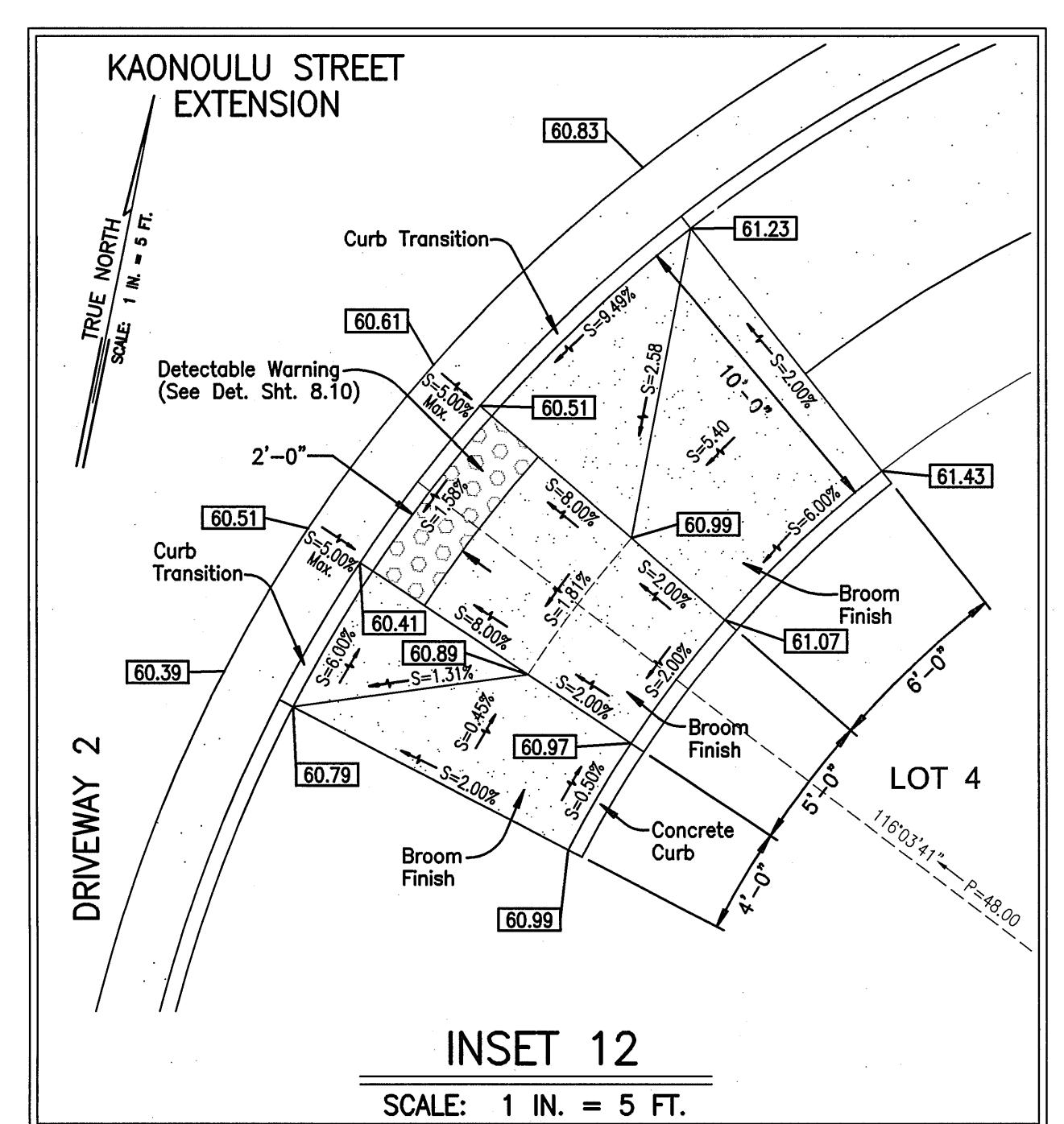
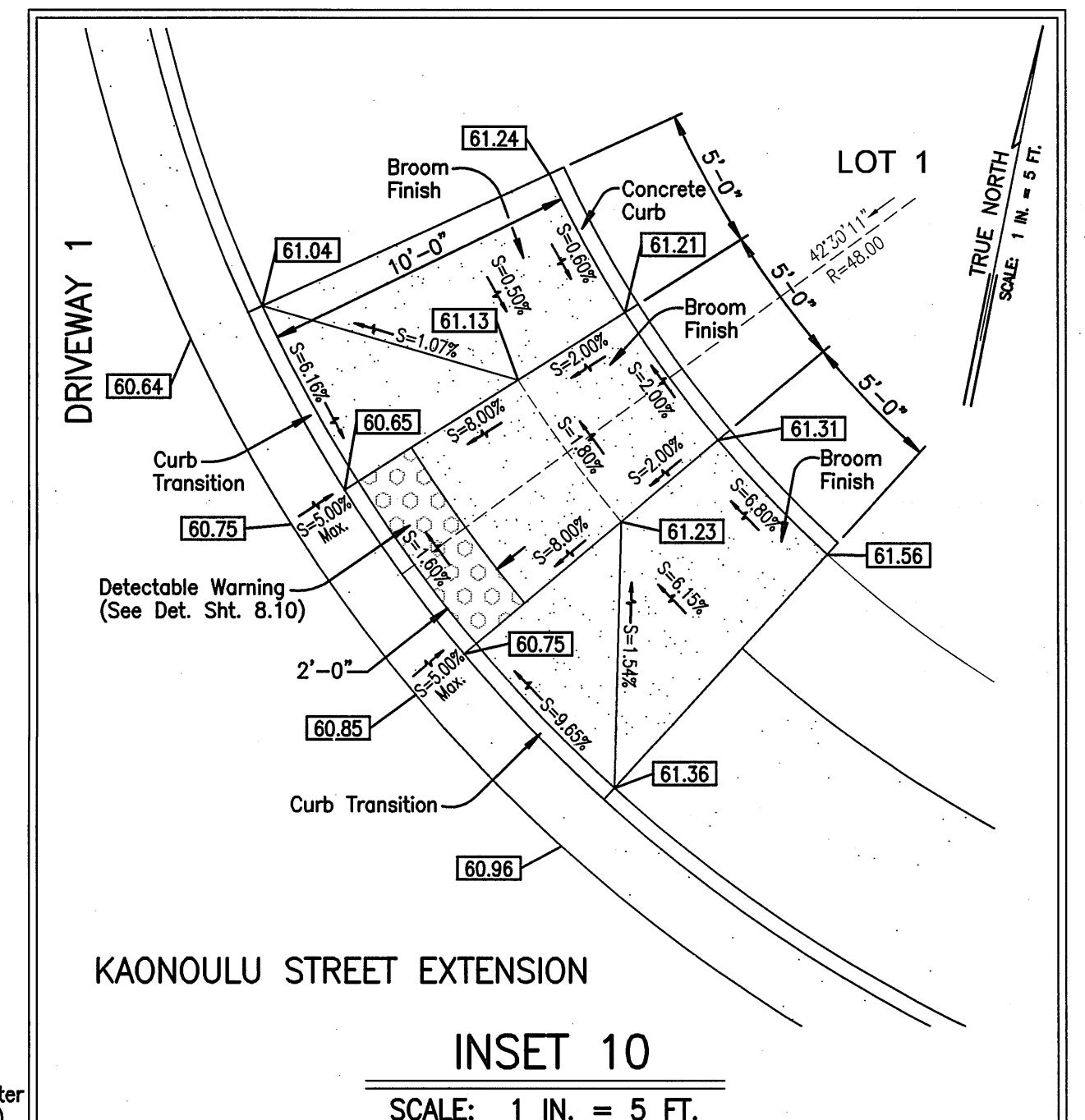
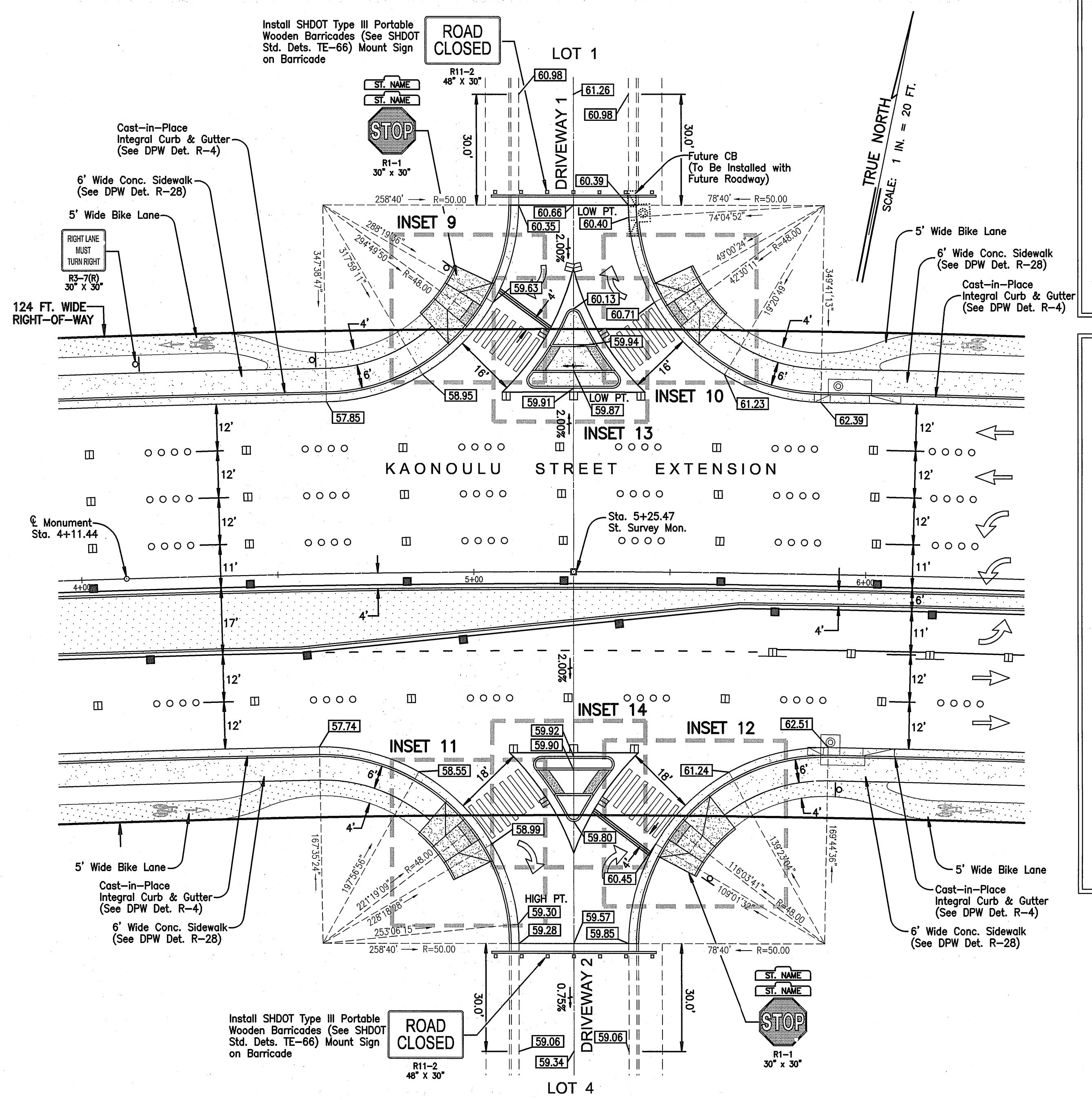
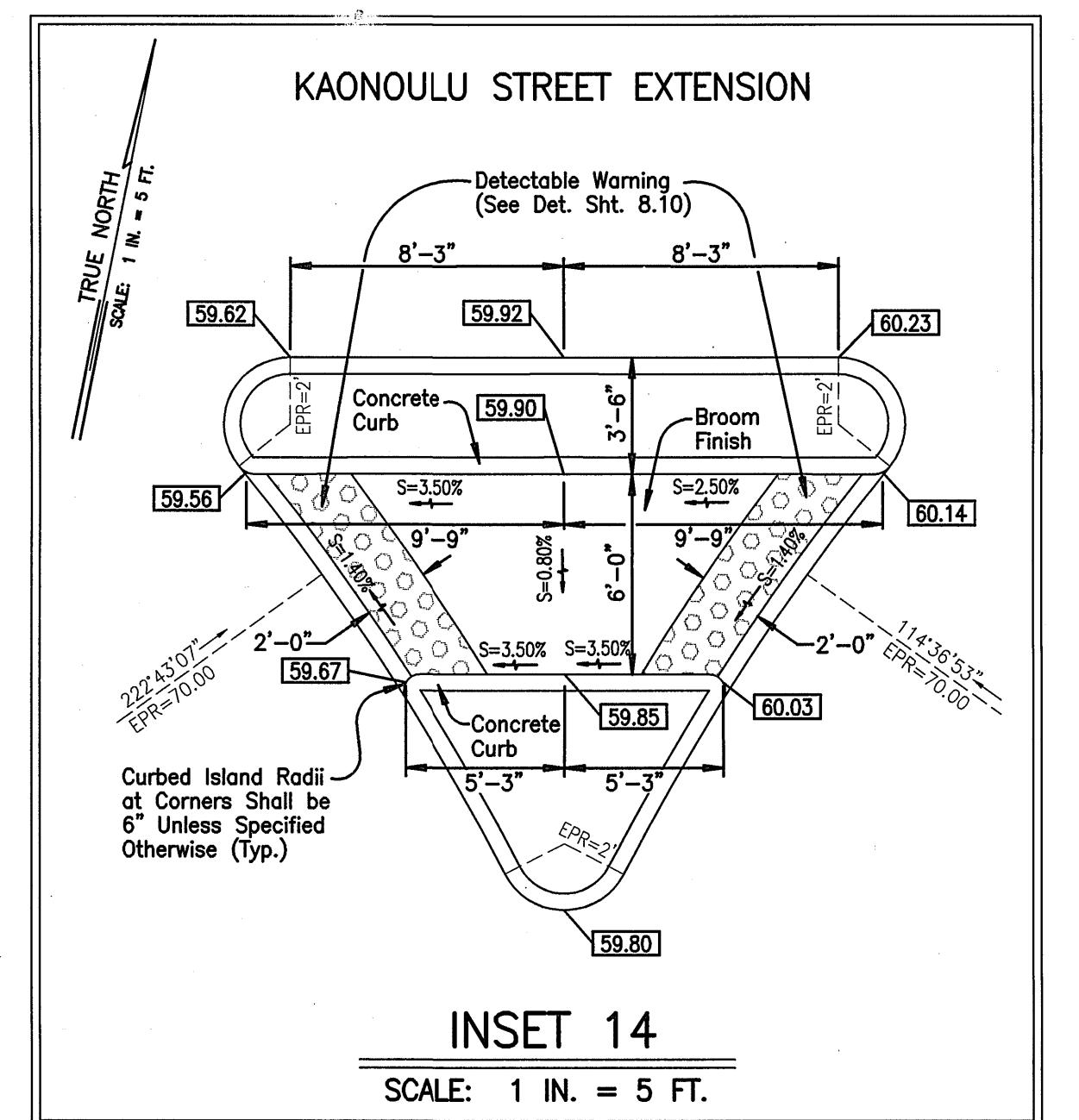
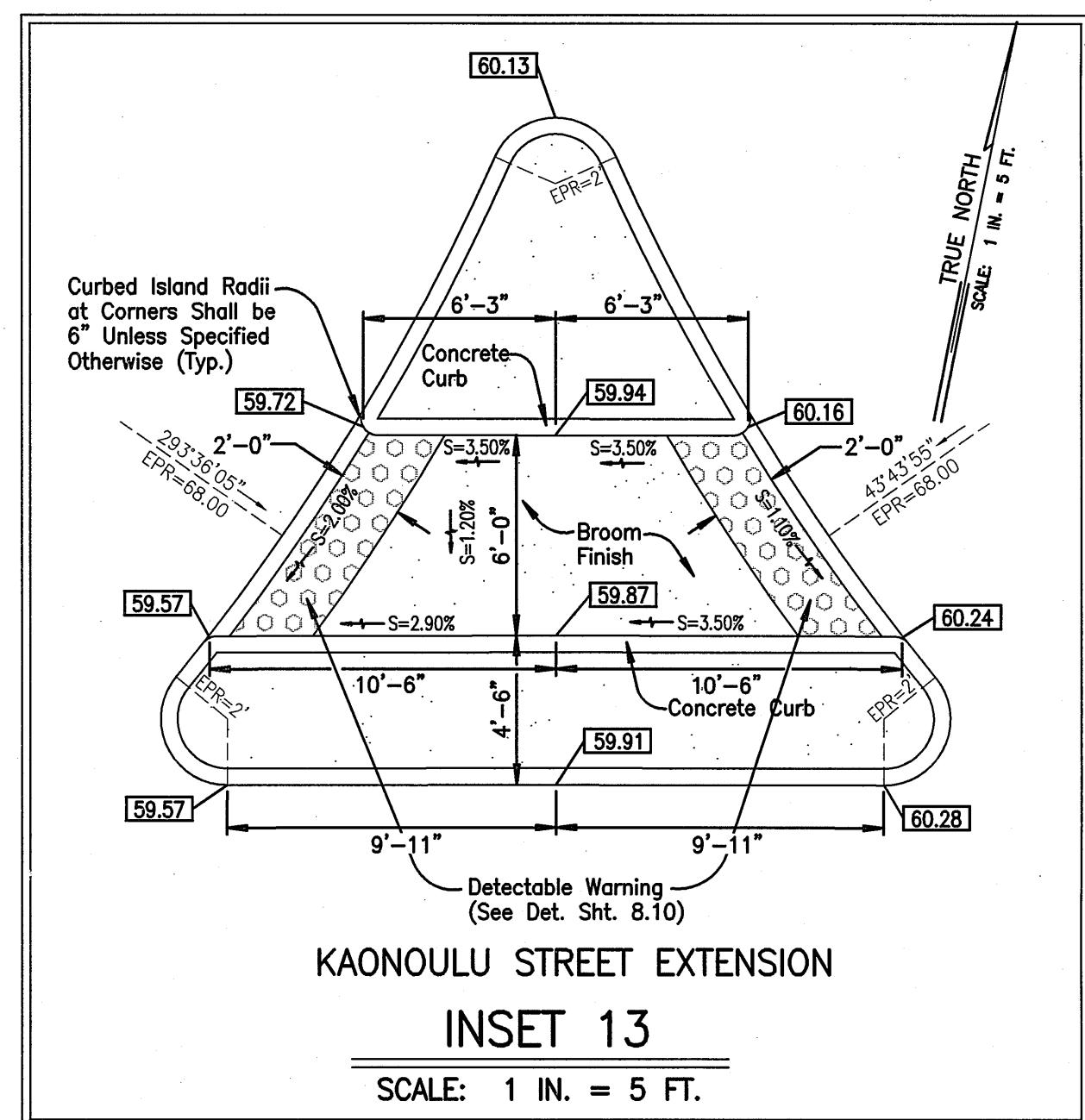
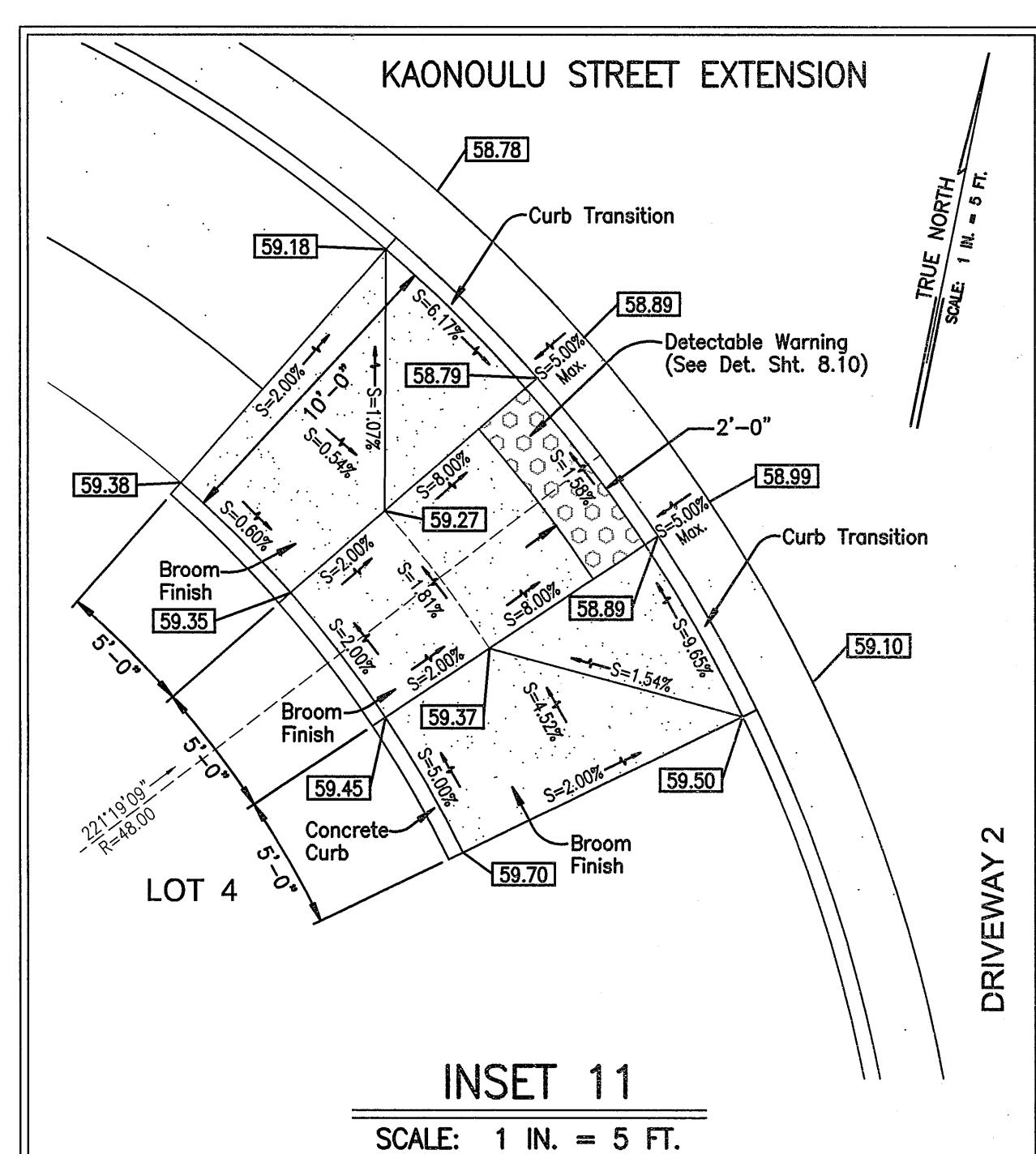
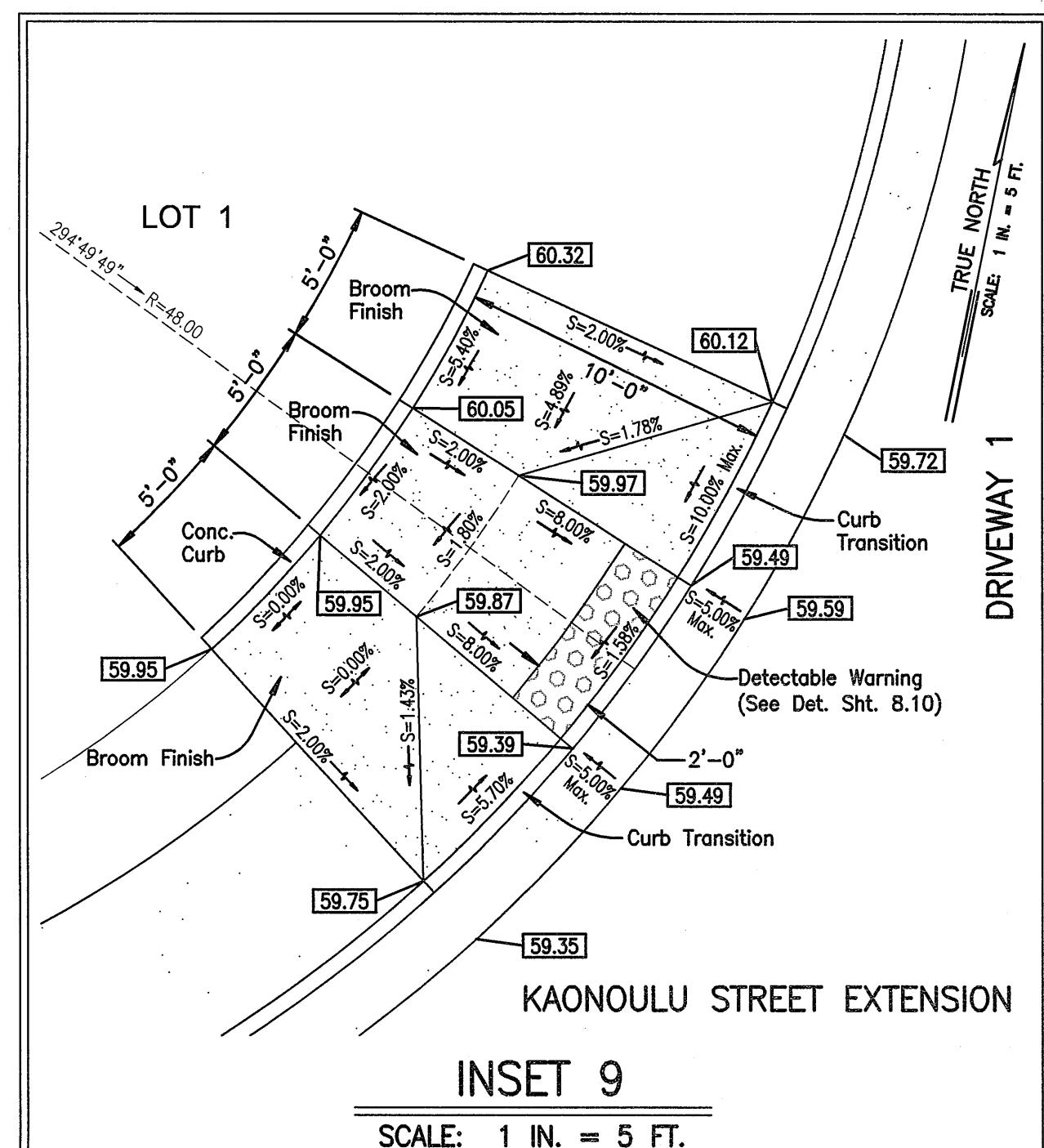
NOTES:

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 - DRAINAGE PATTERN AS INDICATED ON CONSTRUCTION PLANS SHALL BE MAINTAINED.
 - PROFILE OF TRANSITION ALONG EDGE OF PAVEMENT FROM STREET TO STREET SHALL BE UNIFORM AND SMOOTH.
- UPON COMPLETION OF LAYOUT OF THE INITIAL EDGE OF PAVEMENT PROFILE, CONTRACTOR SHALL CONTACT ENGINEER FOR APPROVAL, PRIOR TO PROCEEDING WITH ANY FURTHER WORK, OTHERWISE ANY CORRECTIVE WORK REQUIRED BY THE ENGINEER WILL BE DONE AT CONTRACTOR'S EXPENSE.
- SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES & MAUI COUNTY TRAFFIC CODE.
- EXISTING LONGITUDINAL DRAINAGE PATTERN SHOWN ON INTERSECTION DETAILS SHALL BE MAINTAINED AT ALL TIMES.
- STREET NAMES MAY NOT BE AS SHOWN ON PLANS. CONTRACTOR TO VERIFY STREET NAMES WITH ENGINEER PRIOR TO ORDERING MATERIALS.
- TRAFFIC STRIPING AND MARKING SHALL BE WITH THERMOPLASTIC EXTRUSION.
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- DURING EXISTING SIDEWALK AND SHOULDER IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE NECESSARY ADJUSTMENTS TO ACCOMMODATE BICYCLISTS AND PEDESTRIANS AND SHALL MAINTAIN AN ACCESSIBLE ROUTE AT ALL TIMES.
- RAISED PEDESTRIAN ISLANDS IN MARKED CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET.

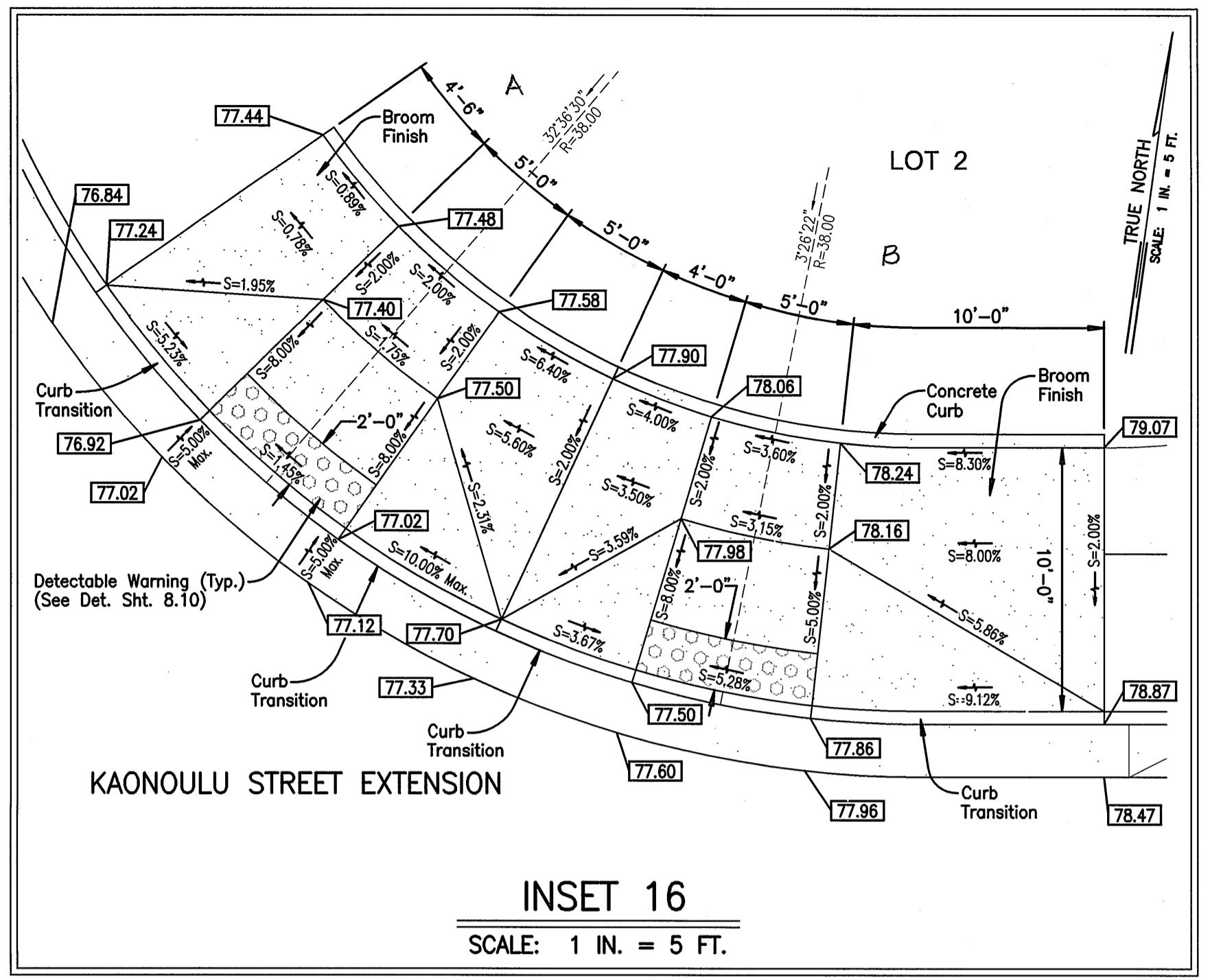
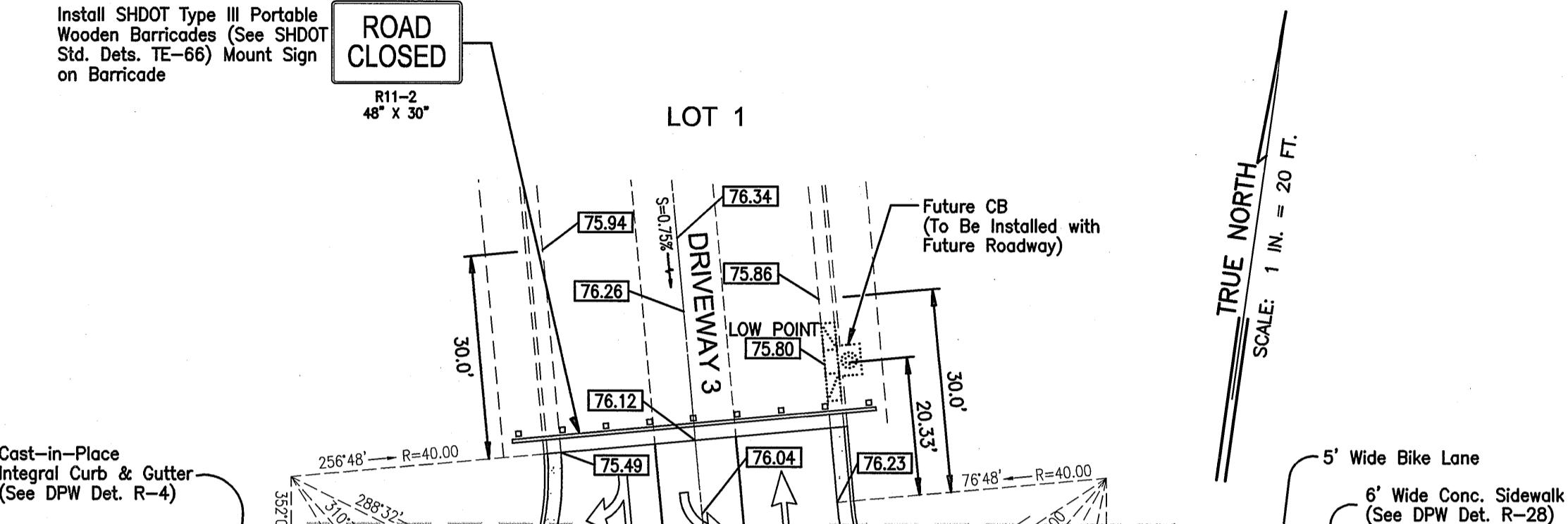
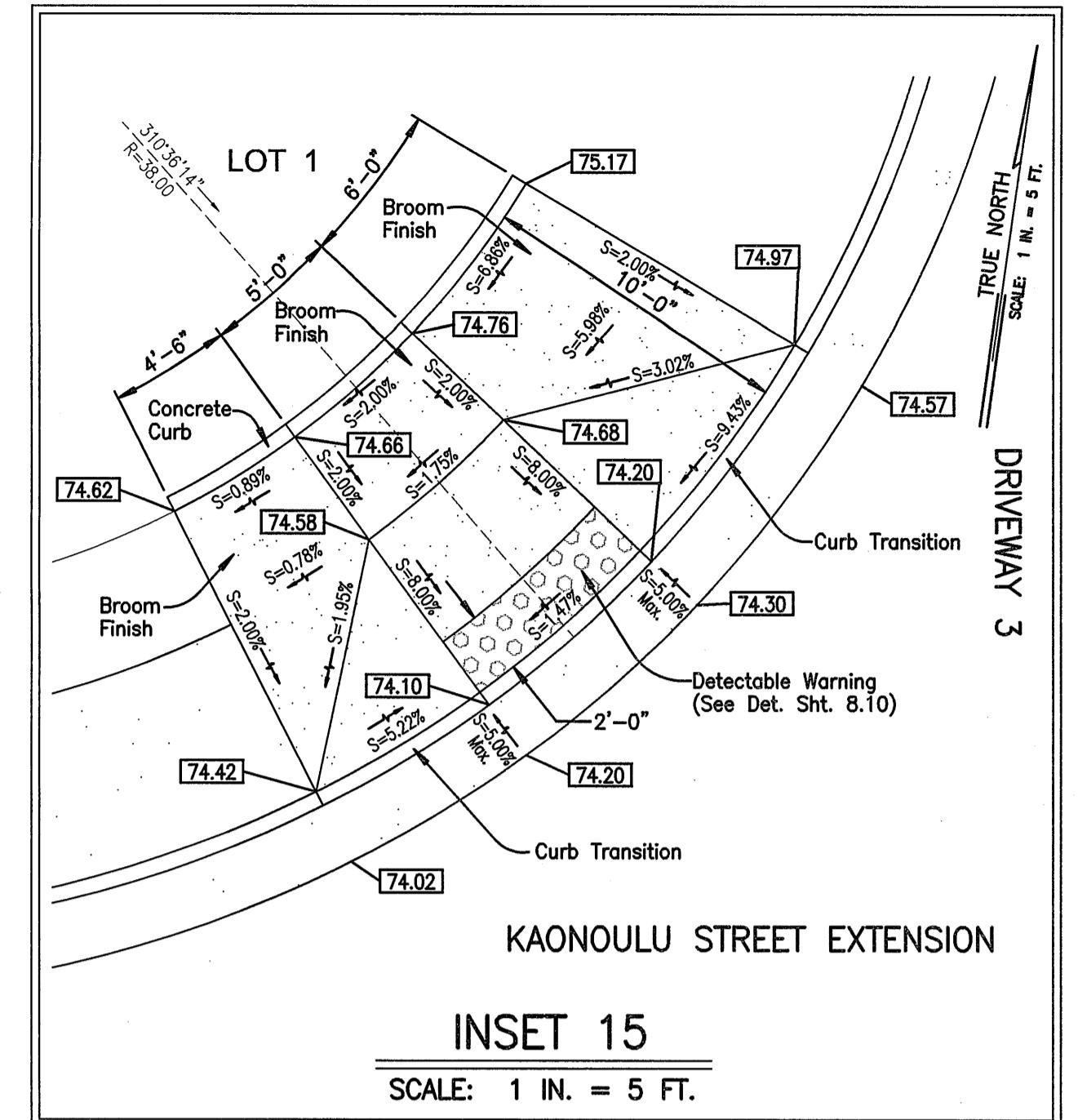
LEGEND:

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CROSSWALK AND STOP LINE. ALL STOP LINES SHALL BE 10'-0" FROM CROSSWALK UNLESS OTHERWISE NOTED. (THERMOPLASTIC EXTRUSION)

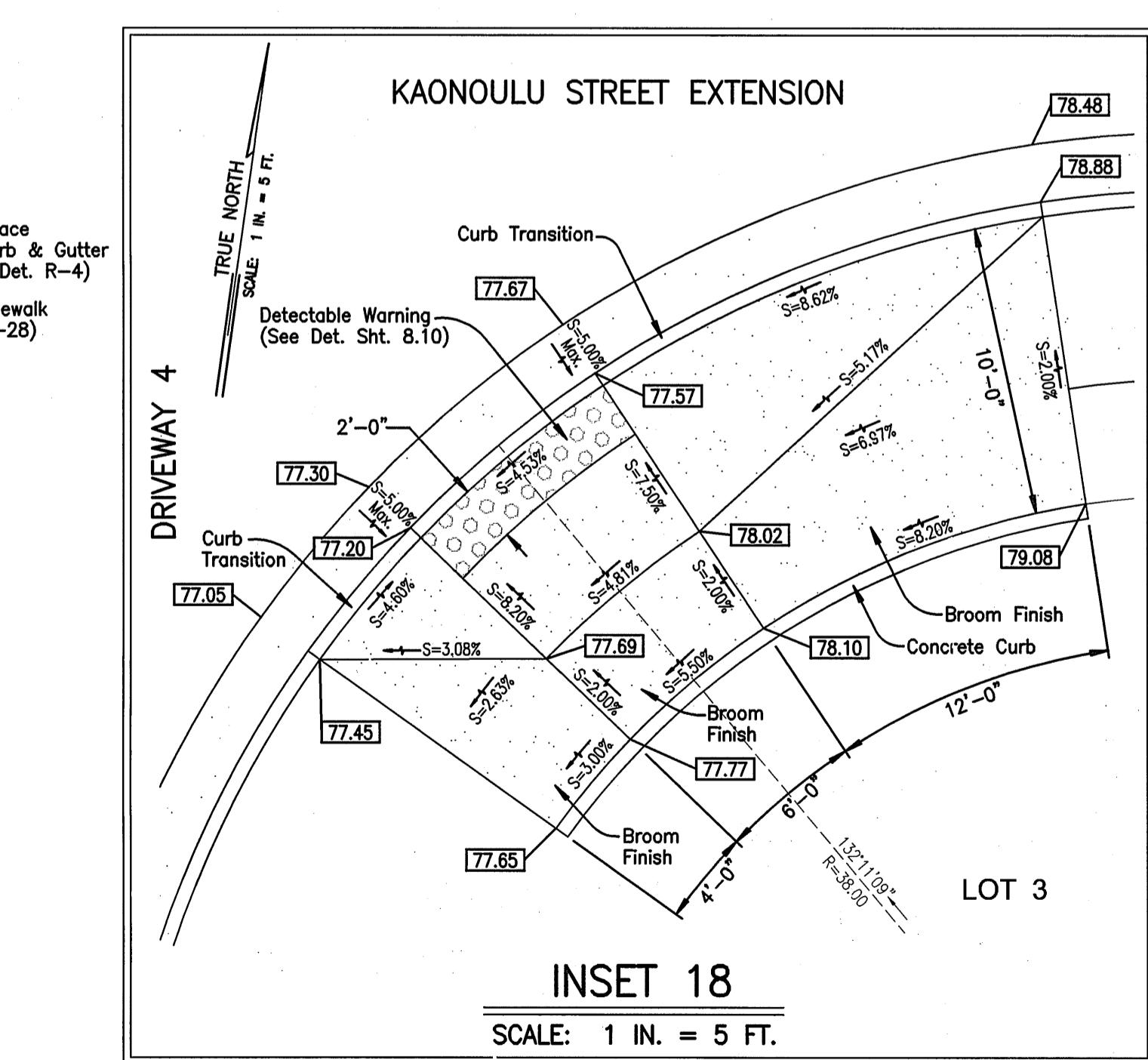
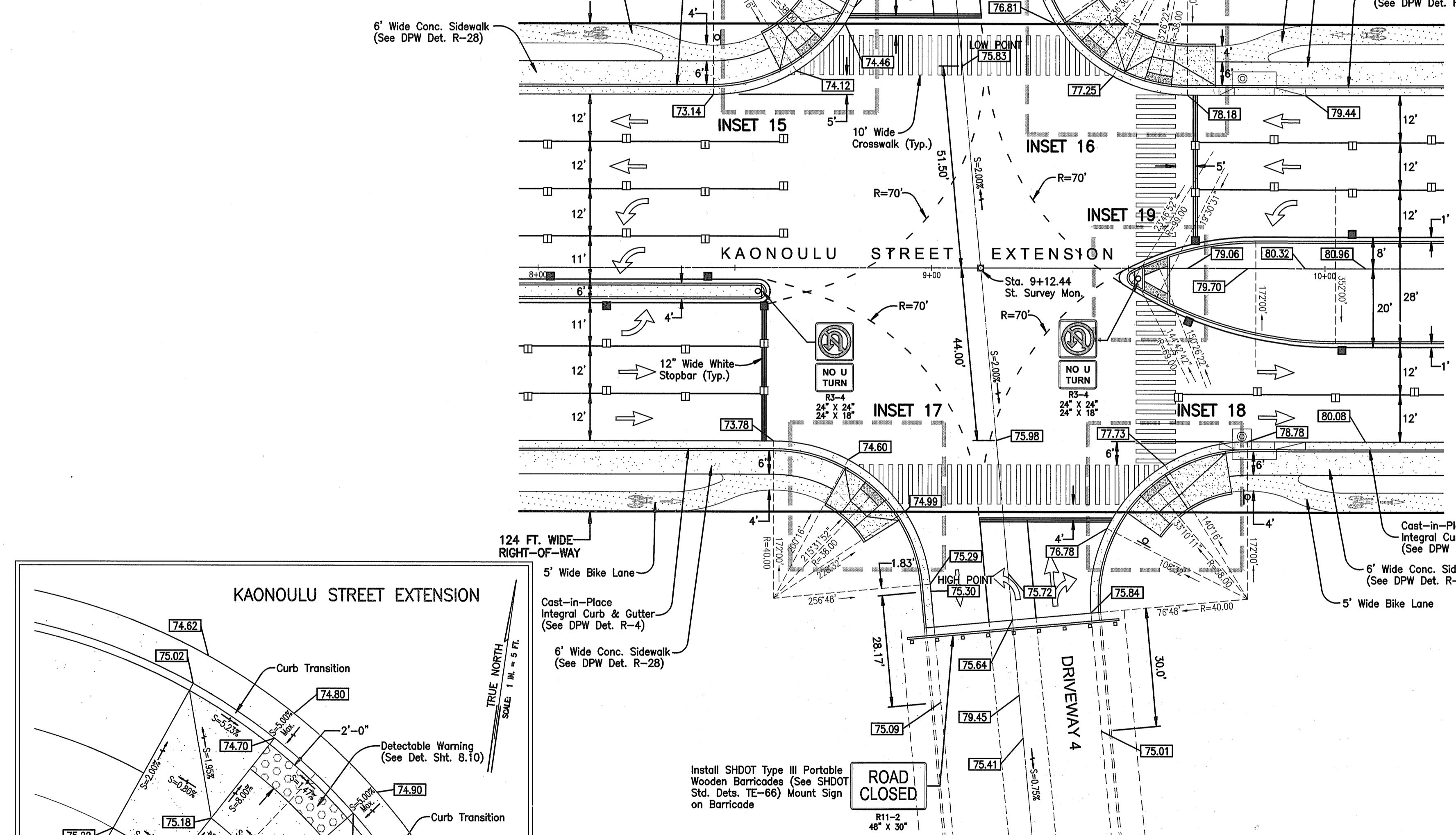


 DARREN T. UNEMORI LICENSED PROFESSIONAL ENGINEER NO. 7937-C HAWAII, U.S.A. KAONOLU MARKET PLACE T.M.K.: (2) 3-9-01 : 16 KIHEI, MAUI, HAWAII		10/22/09																			
		DATE	10/21/09																		
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SCALE 1 in. = 20 ft.																					
DATE																					
<small>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE MY OBSERVATION AS PROJECT SECTION 16-115 OF THE HAWAII ADMINISTRATIVE RULES FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS</small>																					

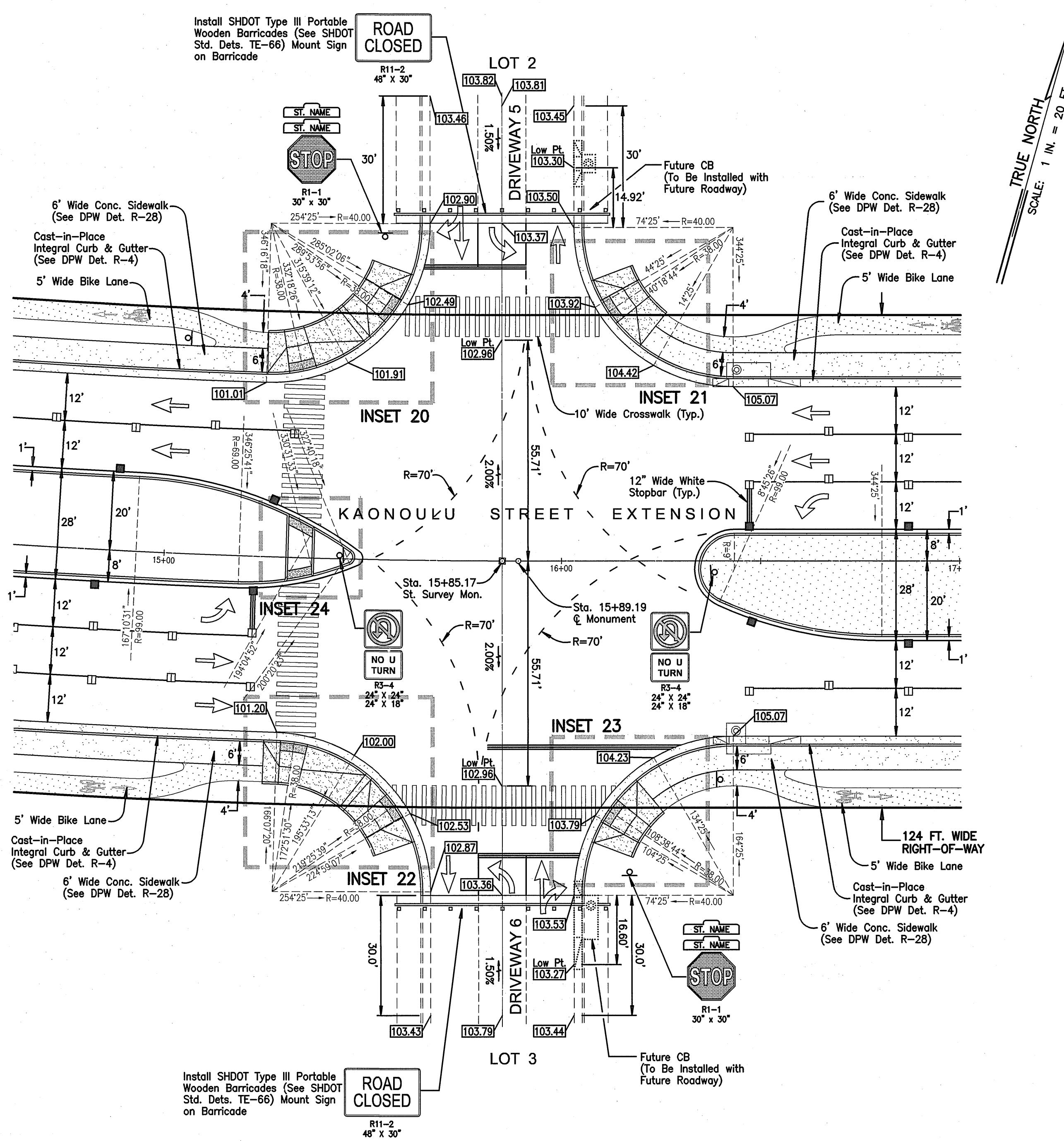
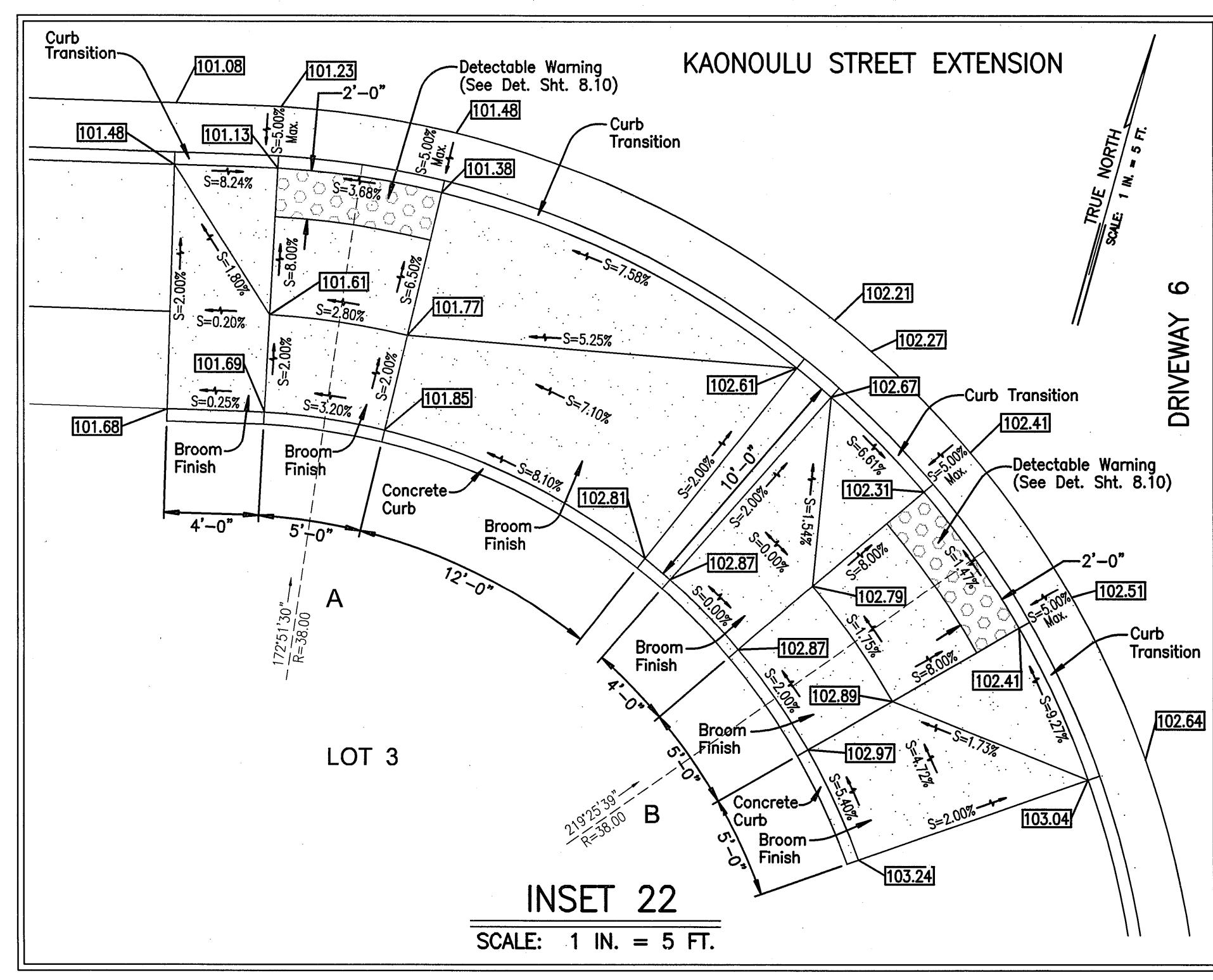
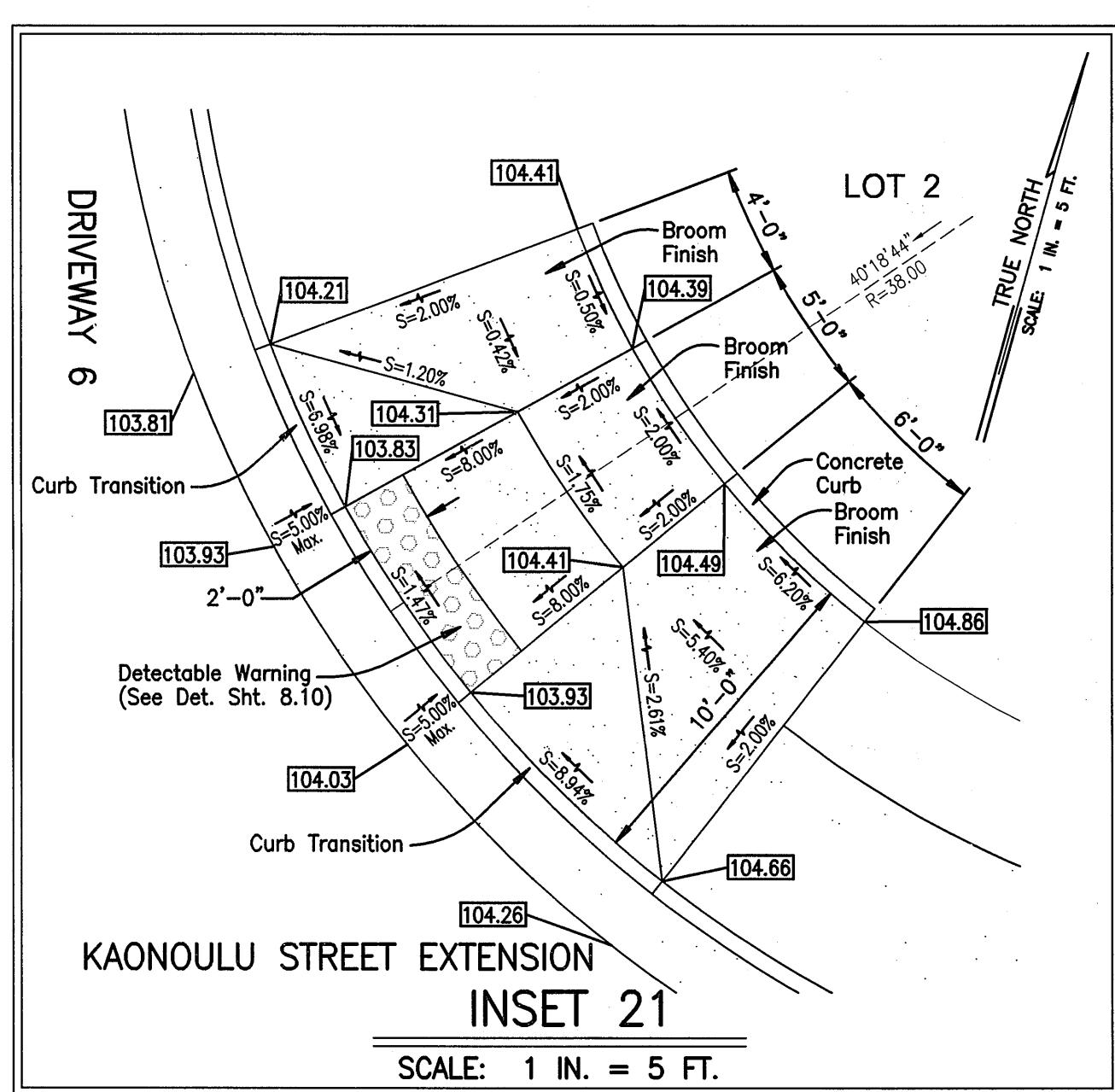
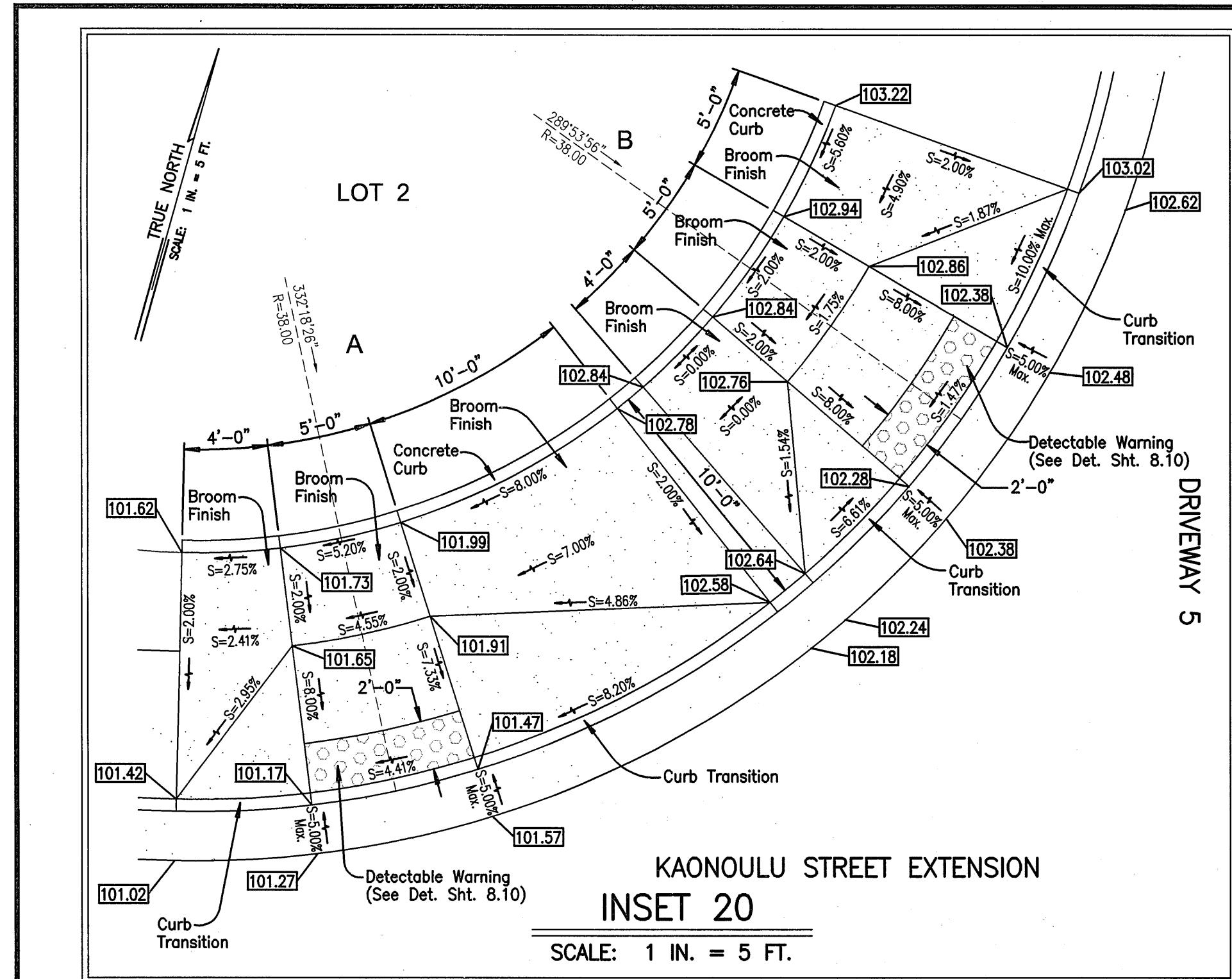


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 8. RAISED PEDESTRIAN ISLANDS IN MARKED CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET.

- LEGEND:**
- 4" DOUBLE SOLID YELLOW STRIPES WITH TYPE "D" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)
 - ···· 4" EACH TYPE "A" RAISED PAVEMENT MARKERS TYPE "C" RAISED PAVEMENT MARKERS AT 40'-0" O.C.
 - — 4" DOUBLE SOLID YELLOW STRIPES WITH TYPE "H" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)
 - — 8" SOLID WHITE STRIPE W/ TYPE "C" RAISED PAVEMENT MARKERS AT 20'-0" O.C. (THERMOPLASTIC EXTRUSION)
 - — 4" YELLOW EDGE STRIPE WITH TYPE "H" RAISED PAVEMENT MARKERS AT 40'-0" O.C. (THERMOPLASTIC EXTRUSION)
 - — CHANNELIZING ISLAND OR DECELERATION LANE GORE (THERMOPLASTIC EXTRUSION)
 - — 4" OR 8" WHITE EDGE STRIPE W/ TYPE "C" RAISED PAVEMENT MARKERS AT 40'-0" O.C. (THERMOPLASTIC EXTRUSION)
 - — BIKE LANE MARKING (THERMOPLASTIC EXTRUSION)
 - 4" WHITE GUIDELINES (THERMOPLASTIC EXTRUSION EXCEPT FOR BUS BAYS) (GUIDE LINES FOR TURNING MOVEMENTS THROUGH INTERSECTIONS SHALL BE YELLOW)
 - TRANSVERSE MEDIAN MARKING (THERMOPLASTIC EXTRUSION)
 - PAVEMENT ARROW (THERMOPLASTIC EXTRUSION)
 - CROSSLWALK AND STOP LINE. ALL STOP LINES SHALL BE 10'-0" FROM CROSSWALK UNLESS OTHERWISE NOTED. (THERMOPLASTIC EXTRUSION)



 WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793			
		KAONOU LU MARKET PLACE T.M.K.: (2) 3-9-01 : 16 KIHEI, MAUI, HAWAII	
TITLE INTERSECTION DETAILS			
ALU	DTU	CHECKED BY	04010.10
DESIGNED BY	WIS	APPROVED BY	9.03
DRAWN BY	DTU	JOB NUMBER	10-10-05
SHEET	OF	DATE	10/21/09
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN SECTION 16-115-2 OF THE HAWAII ADMINISTRATIVE RULES AND REGULATIONS, WHICH ARE ARCHITECTS, LAND SURVEYORS AND LANDSCAPE ARCHITECTS.			

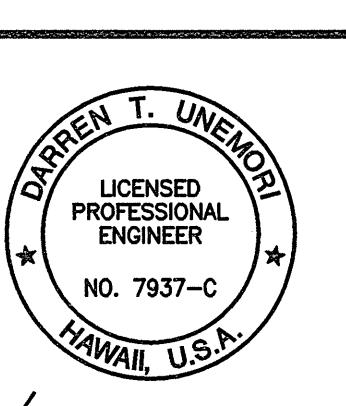


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WELLS STREET PROFESSIONAL CENTER, SUITE 403
2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793

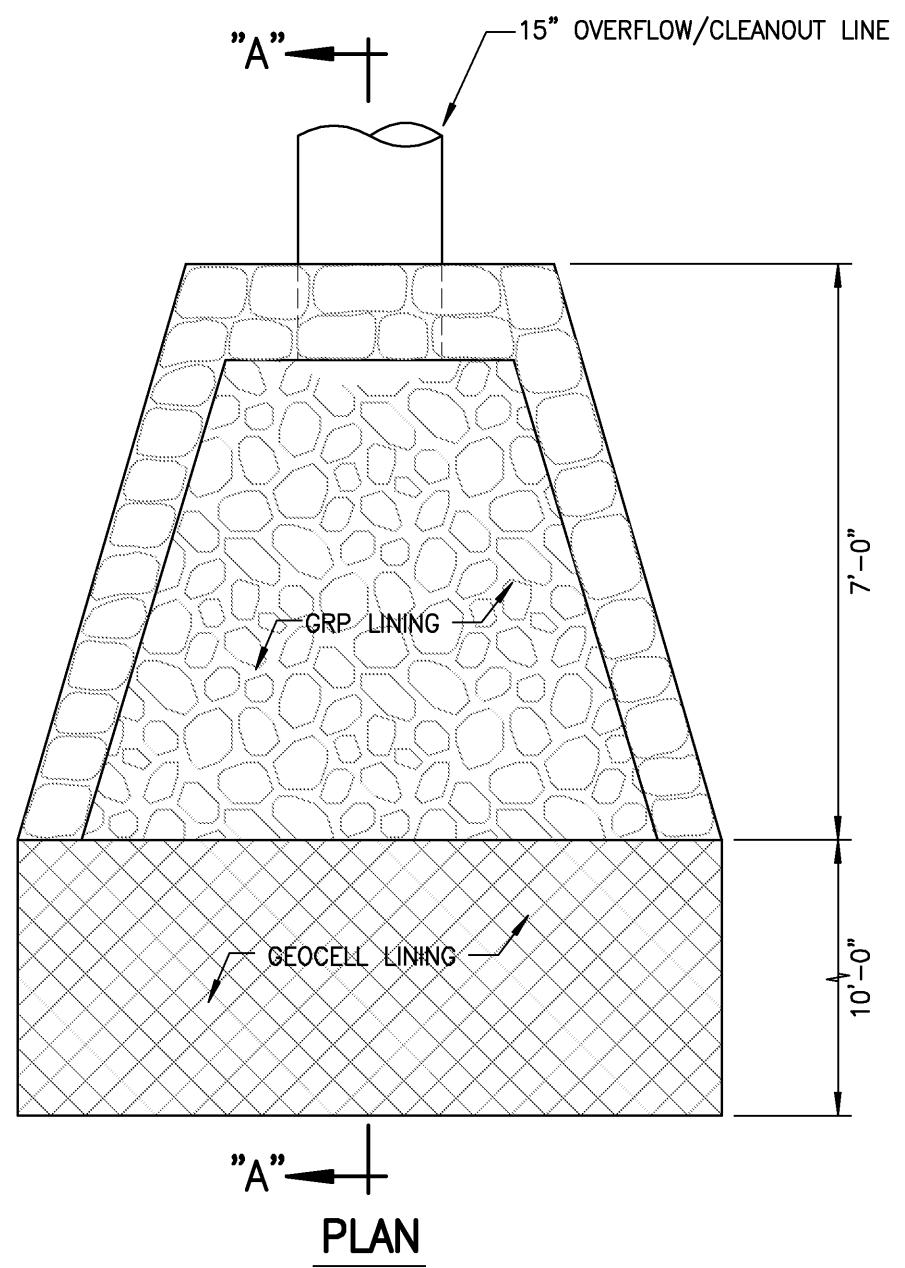
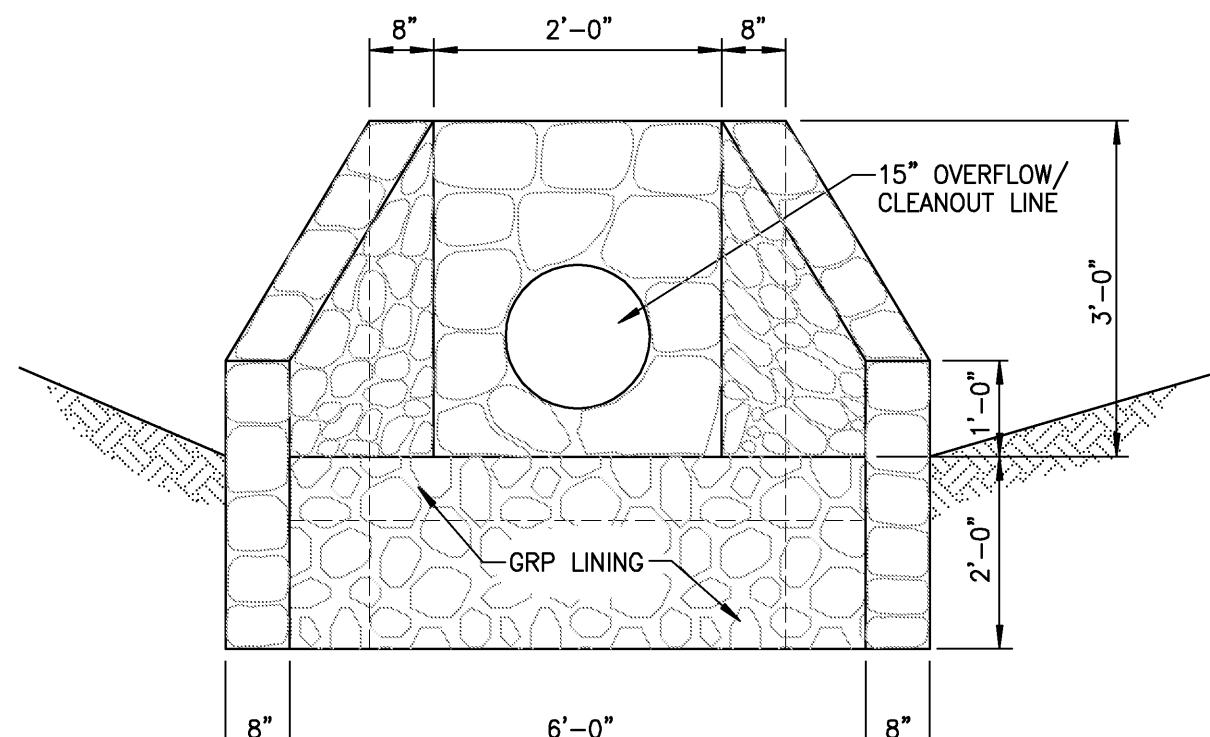
KAONOULU MARKET PLACE
T.M.K.: (2) 3-9-01 : 16
KIHEI, MAUI, HAWAII

TITLE: INTERSECTION DETAILS

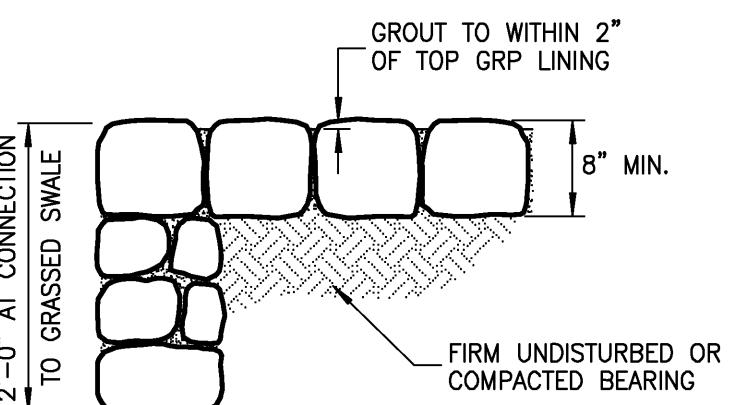
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DESIGNED BY	CHECKED BY	JOB NUMBER
WIS	DTU	10-10-05
DRAWN BY	APPROVED BY	10-10-05
DATE	DATE	DATE

1 in. = 20 ft.

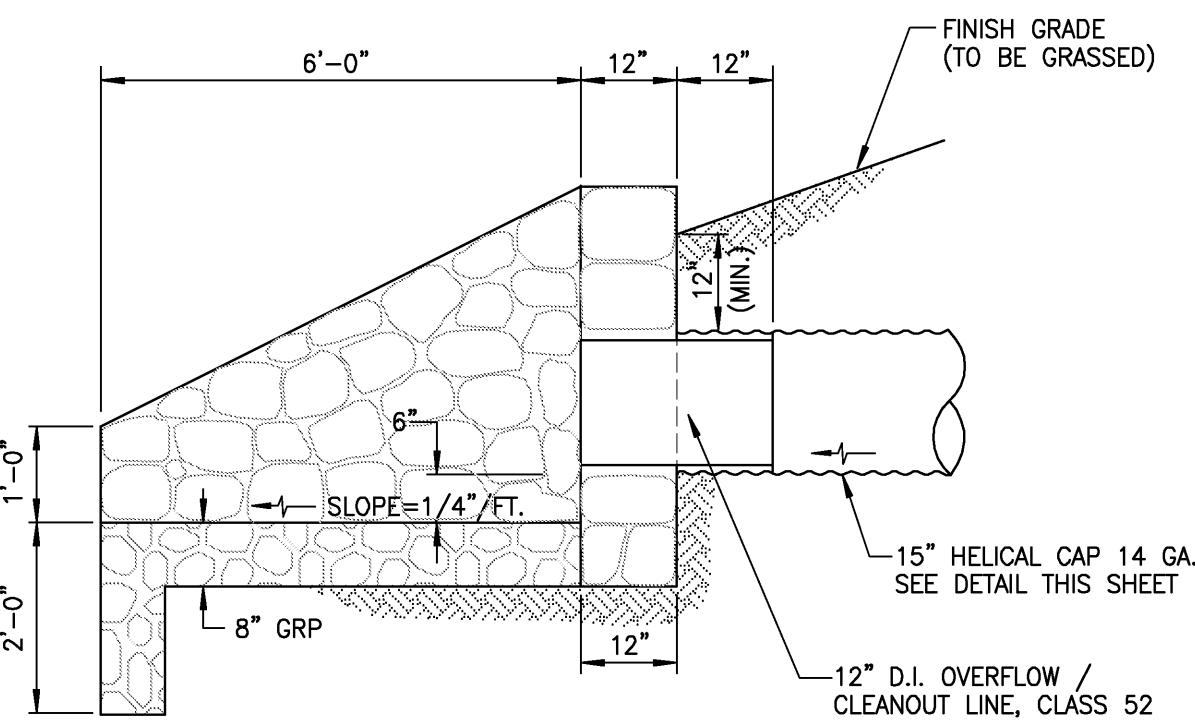
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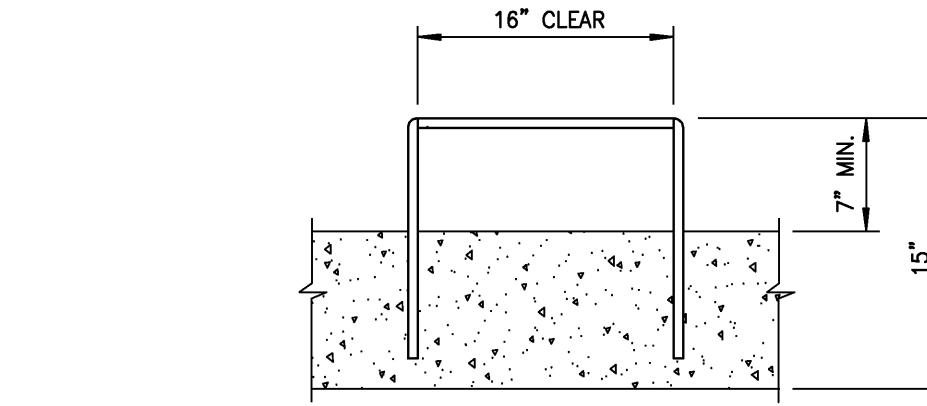
DETAIL - OUTLET STRUCTURE FOR OVERFLOW DRAINLINE
NOT TO SCALE



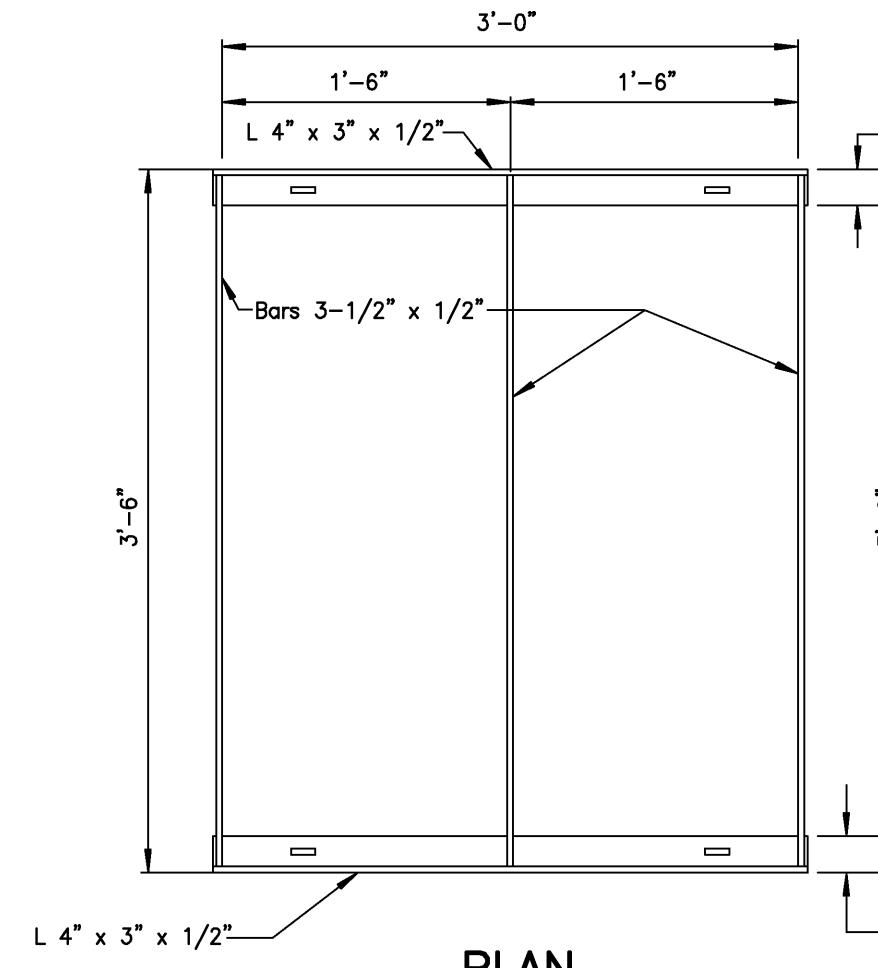
DETAIL - GRP LINING
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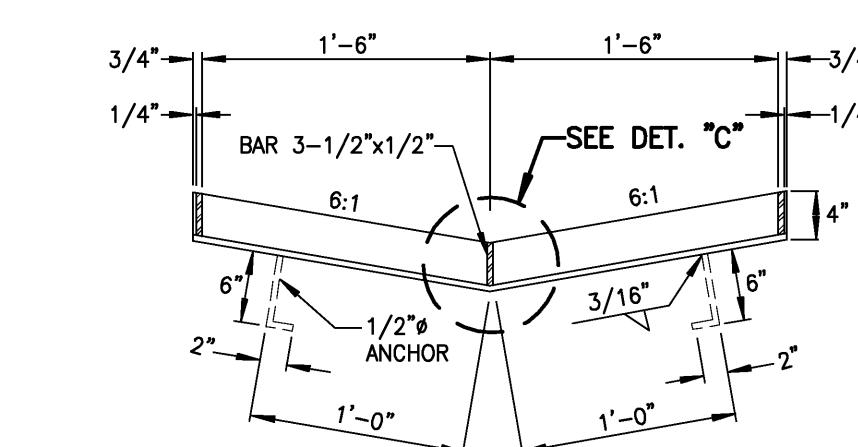
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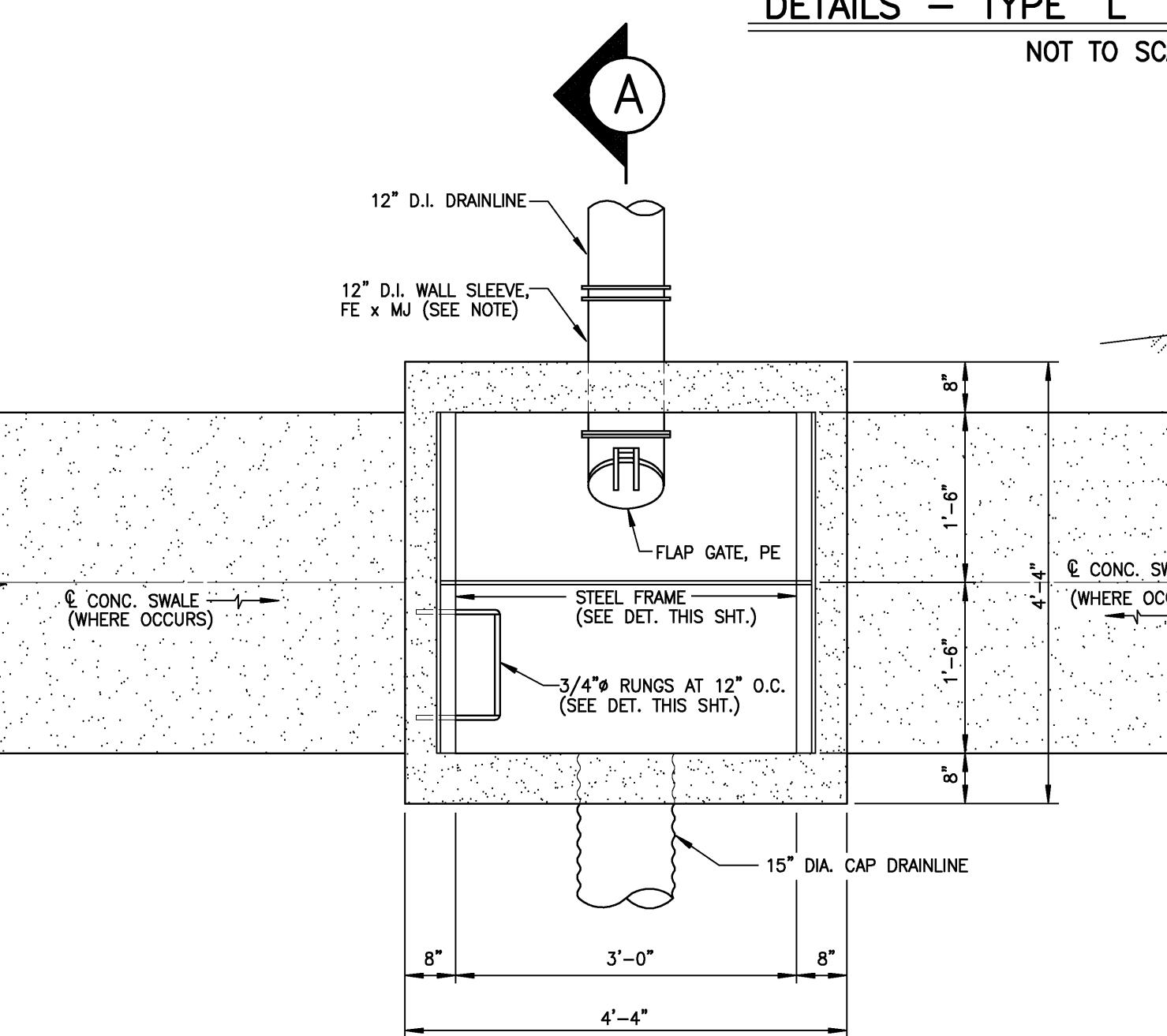
RUNG DETAIL
SCALE: 1" = 1'-0"



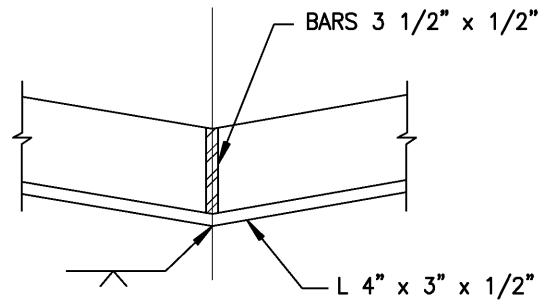
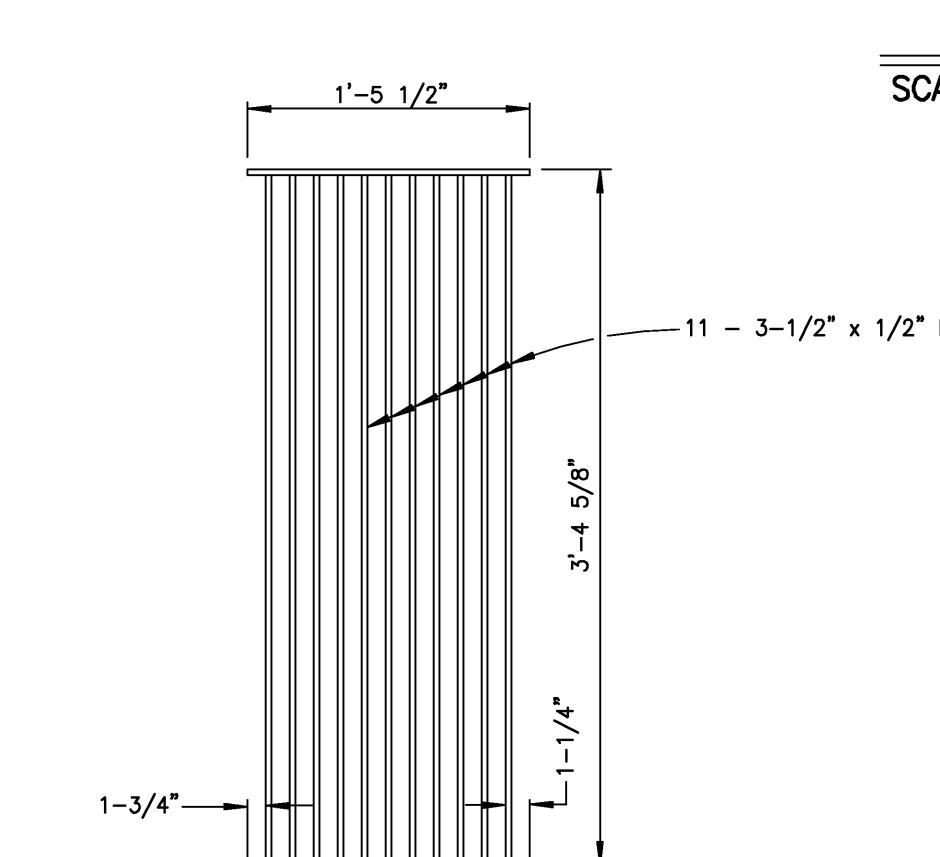
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SECTION
DETAILS - TYPE "L" GRATE & FRAME
NOT TO SCALE

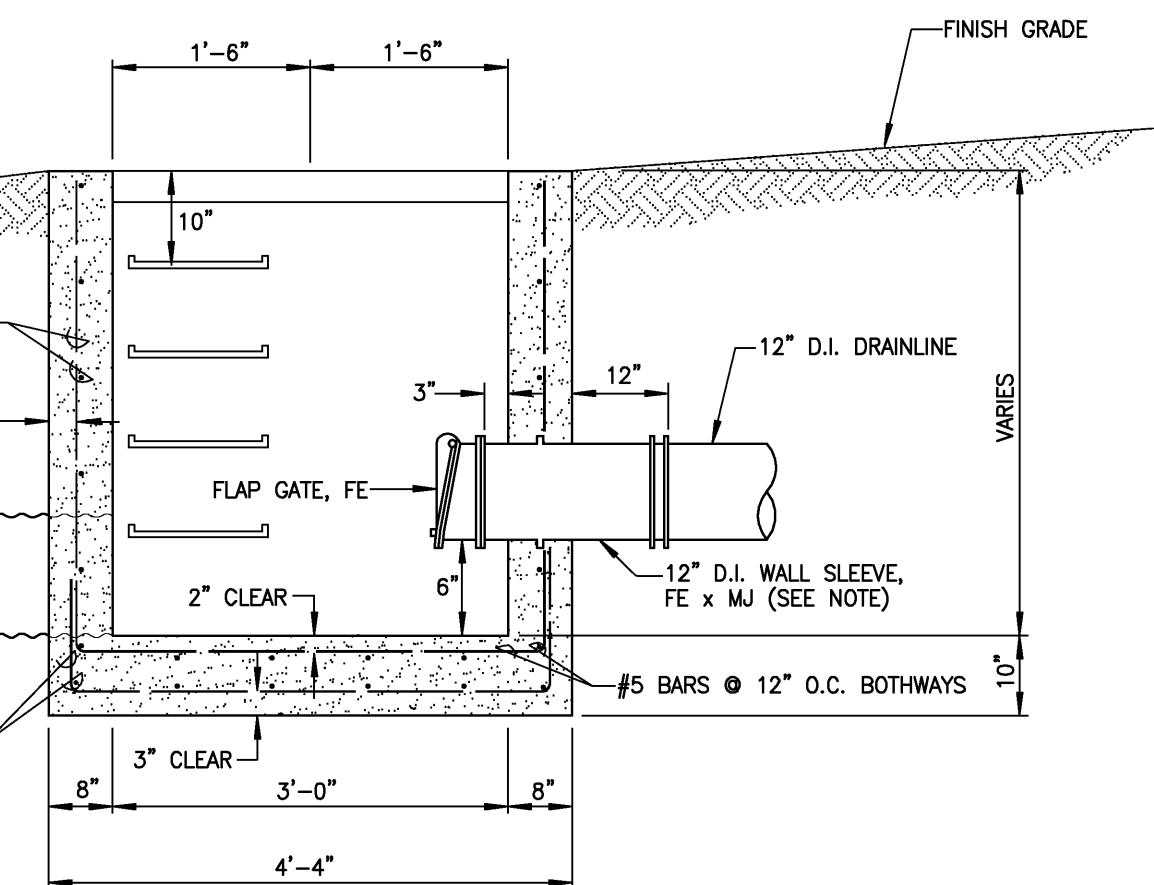


DETAILS - GRATED INLET CATCH BASIN AT WATER TANK
NOT TO SCALE



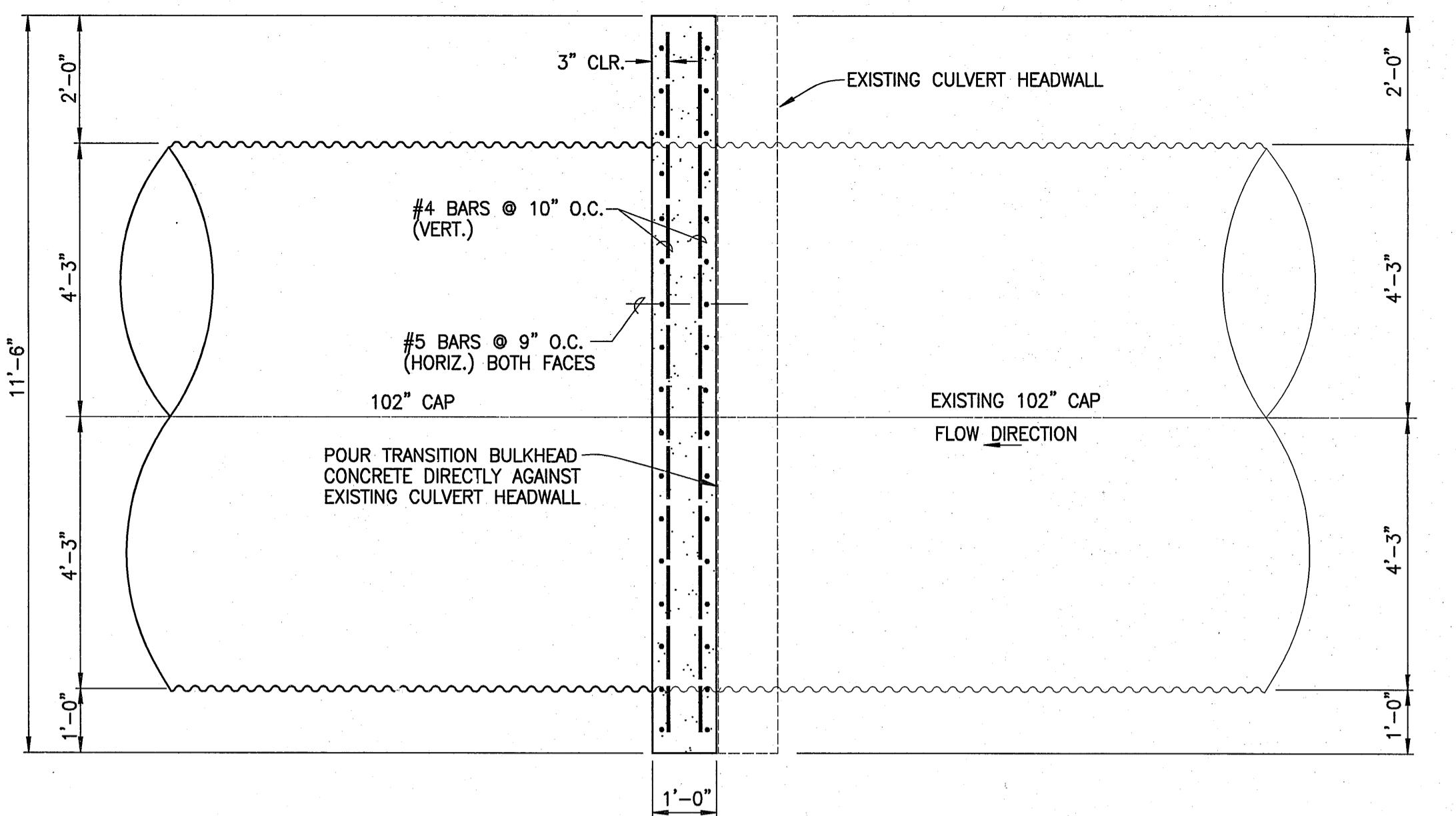
DETAIL "C"
SCALE: 1 1/2" = 1'-0"

- NOTES:**
1. CONTRACTOR SHALL HAVE OPTION TO SUBSTITUTE APPROVED HYDRAULICALLY AND STRUCTURALLY EQUIVALENT OR BETTER PRECAST CONCRETE CATCH BASIN DROP INLETS AND PREFABRICATED GRATE ASSEMBLIES. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.
 2. ALL GRATES WITHIN PAVED AREAS SHALL BE GARY GRATING "TYPE GO SERIES" (MANUFACTURED BY IKG INDUSTRIES, RATED TO SUSTAIN HS20-44 LOADING, OR APPROVED EQUAL). FRAME ANGLE LEG DIMENSIONS SHALL BE ADJUSTED AS REQUIRED.
 3. ALL STEEL COMPONENTS SHALL BE HOT-DIPPED GALVANIZED.
 4. SEE D.P.W. STANDARD DETAILS SHEET "D-44" FOR CORNER CONNECTIONS.
 5. ALL WELDS 3/8" UNLESS OTHERWISE NOTED.
 6. THE FRAME AND GRATE MATERIAL SHALL CONFORM TO THE SPECIFICATIONS OF A.S.T.M. DESIGNATION STRUCTURAL STEEL A283, GRADE D AND THE STANDARD SPECIFICATIONS.
 7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND MATERIAL SUBMITTAL OF FLAP GATE INSTALLATION TO ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIALS.



SECTION A
NOT TO SCALE

		WARREN S. UNEMORI ENGINEERING, INC. CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS WELLS STREET PROFESSIONAL CENTER, SUITE 403 2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793	
KAONOULU MARKET PLACE T.M.K.: (2) 3-9-01 : 16 KIHEI, MAUI, HAWAII			
TITLE DRAINAGE DETAILS			
ALU	DTU	04010.10	
DESIGNED BY	CHECKED BY	JOB NUMBER	
WIS	DTU	10-10-05	
DRAWN BY	APPROVED BY	SHEET	
AS NOTED			
DATE			
OF SHEETS			

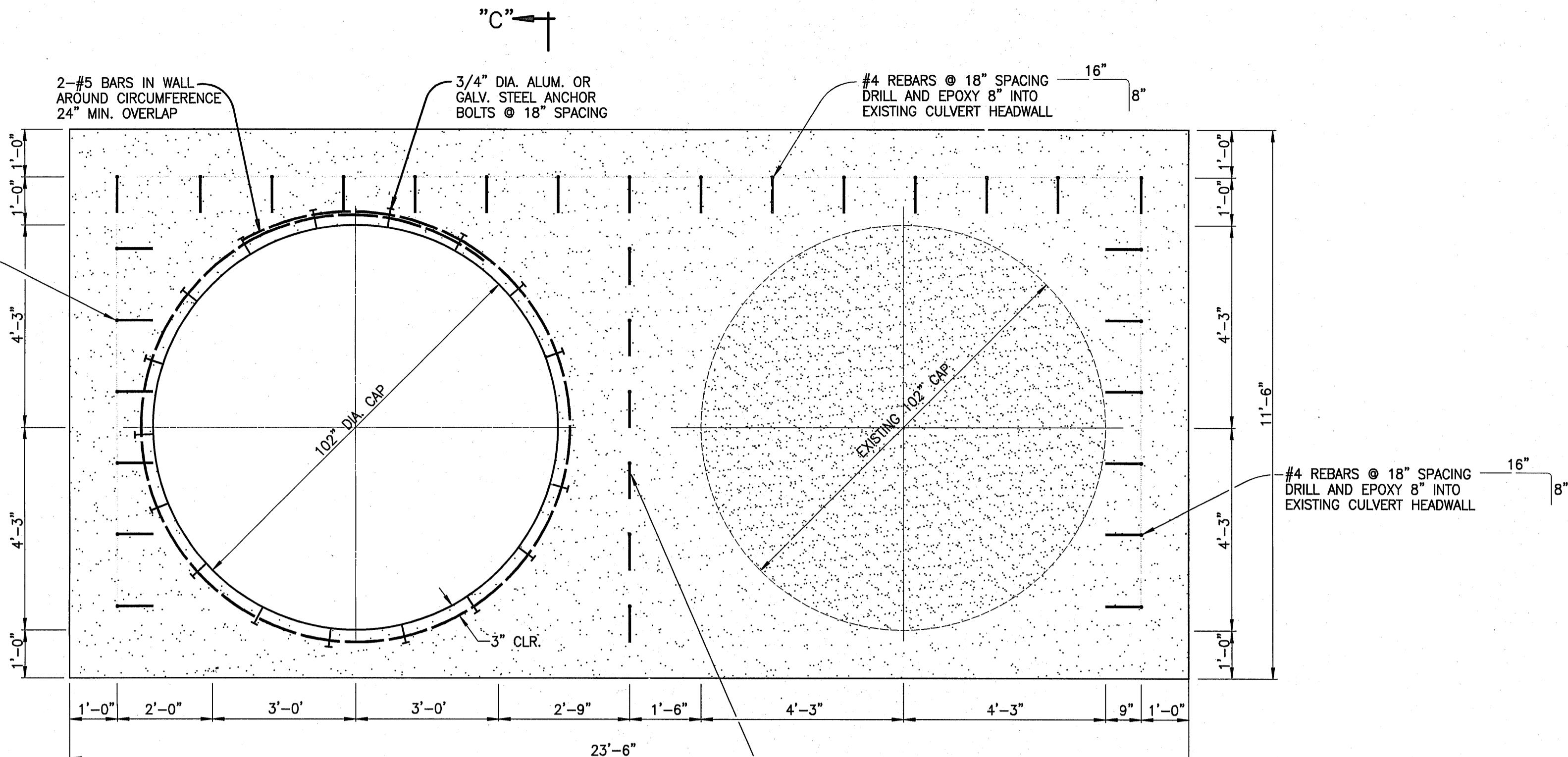


SECTION "A"- "A" ELEVATION VIEW OF
TRANSITION BULKHEAD AT STA. (-)0+65±

SCALE: 1/2" = 1'-0"

NOTE

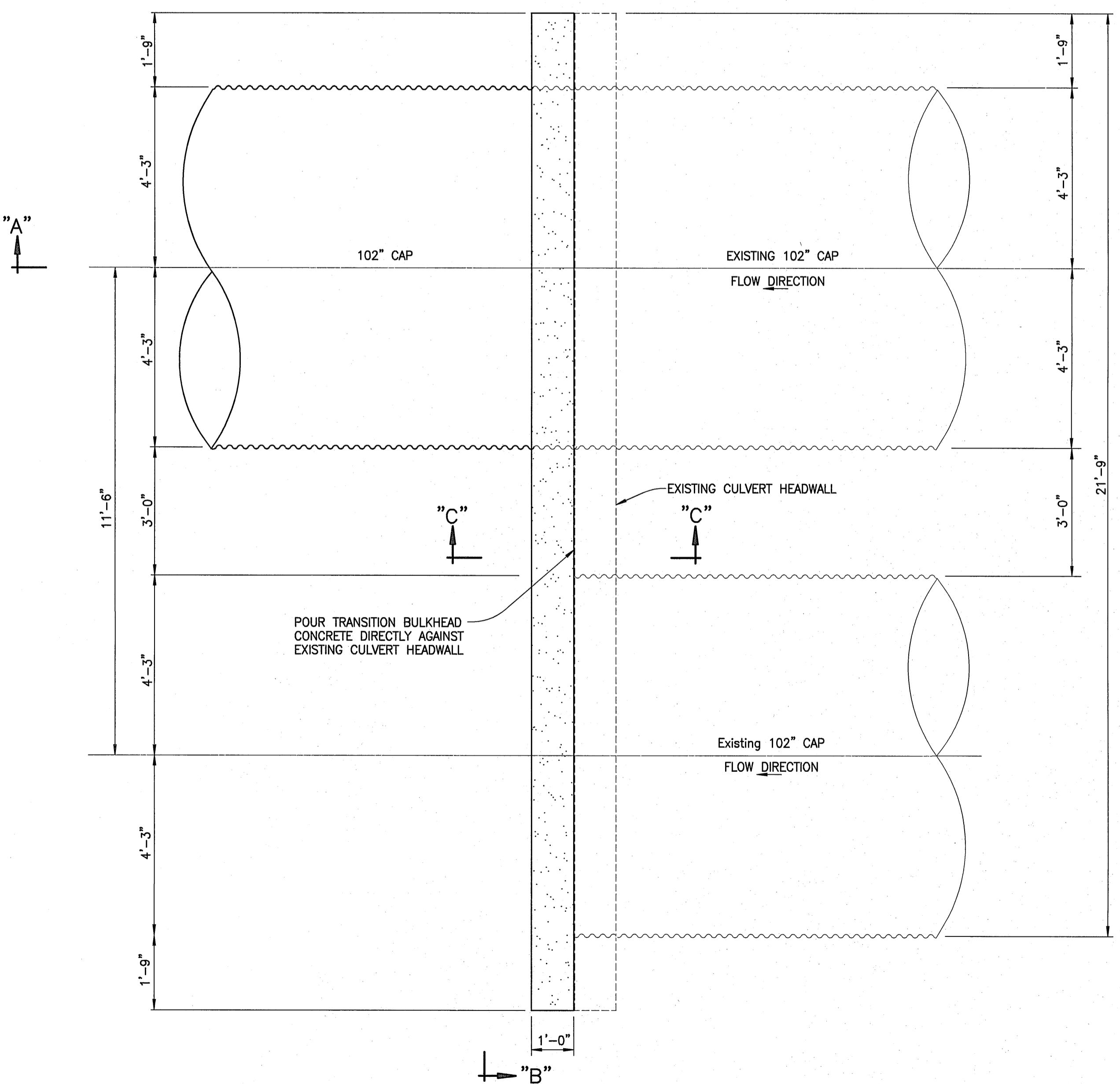
1. HORIZONTAL STEEL IS OUTSIDE VERTICAL STEEL.
 2. 2-#5 REBARS AROUND CIRCUMFERENCE
25'-0" OUTSIDE CIRCUMFERENCE



SECTION "B"- "B" ELEVATION VIEW OF
TRANSITION BULKHEAD AT STA. (-)0+65±

SCALE: 1/2" = 1'-0"

NOTE: DOWNSTREAM FACE REBARS
NOT SHOWN FOR CLARITY

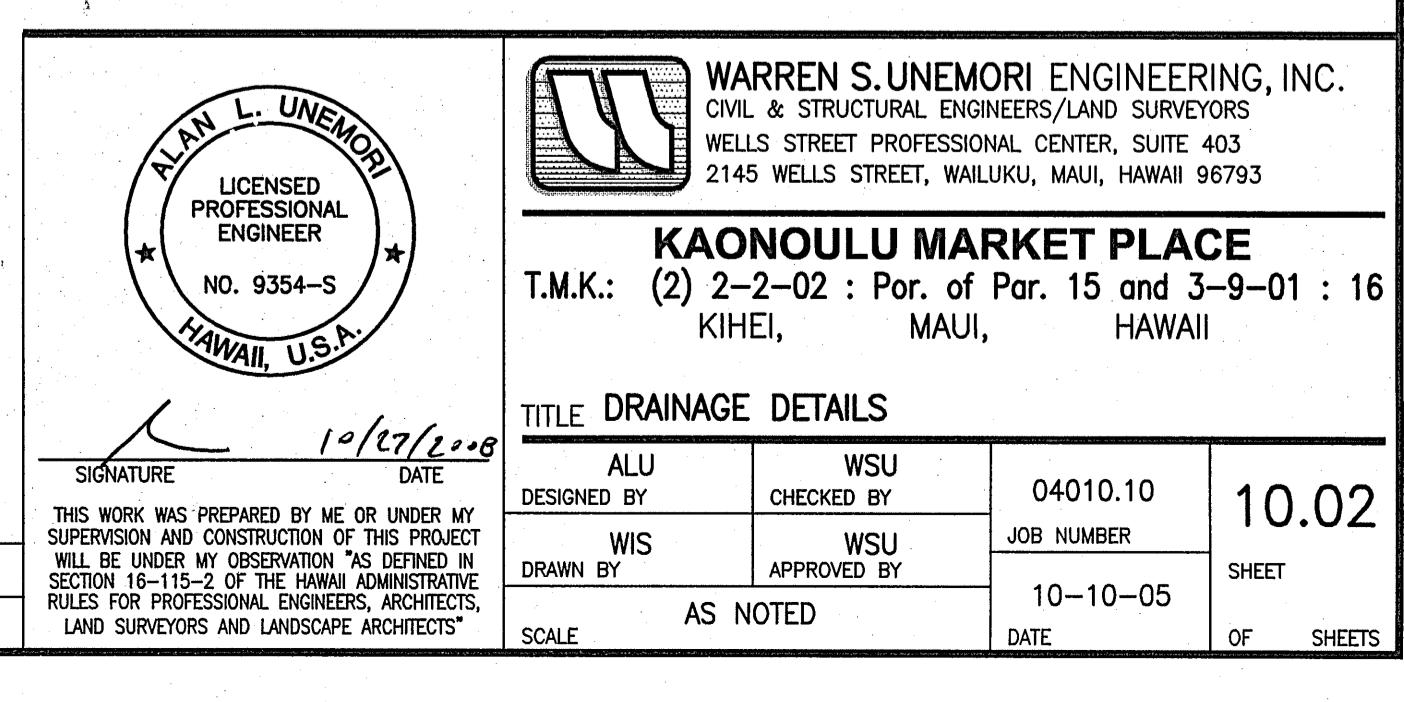


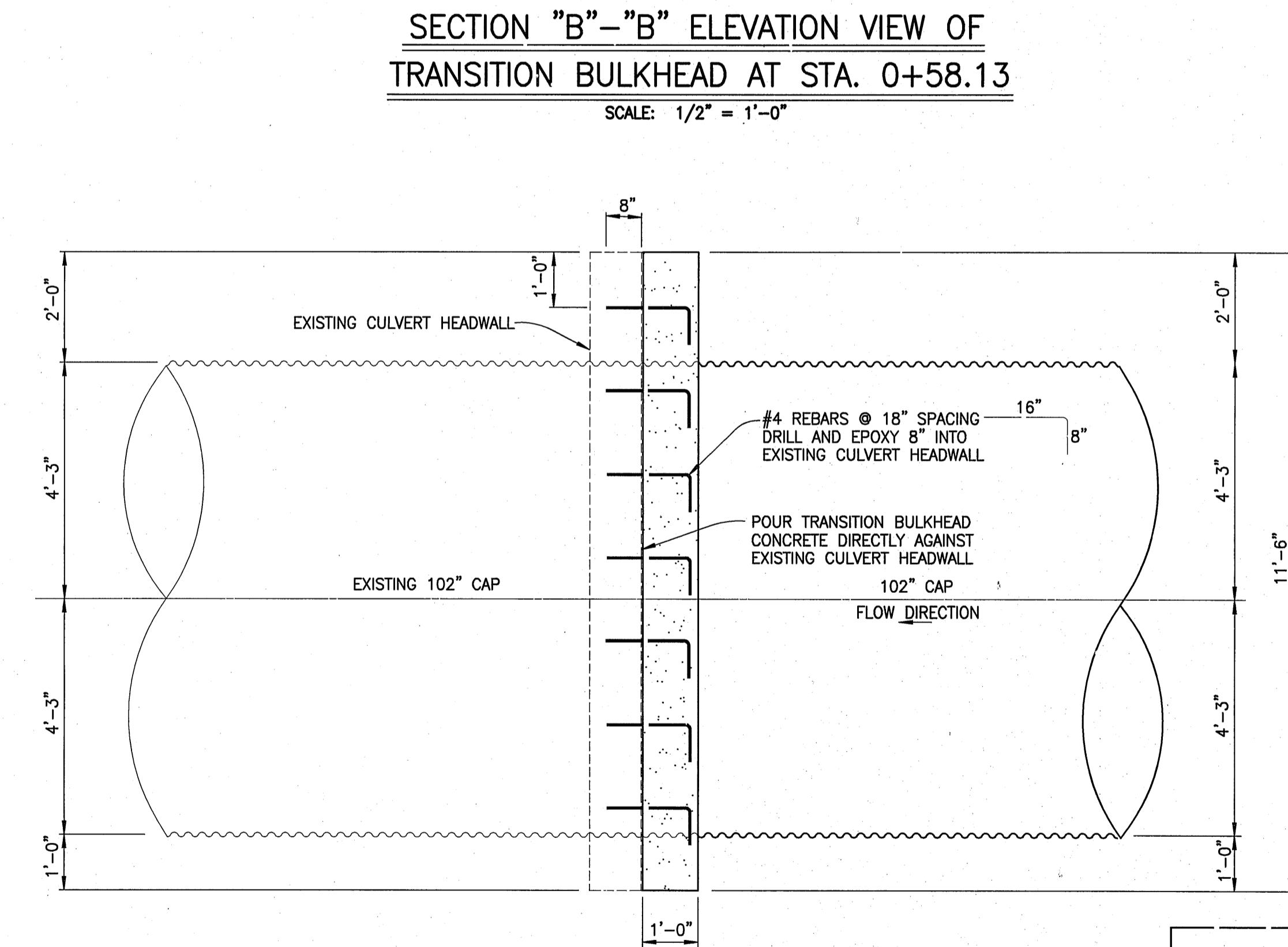
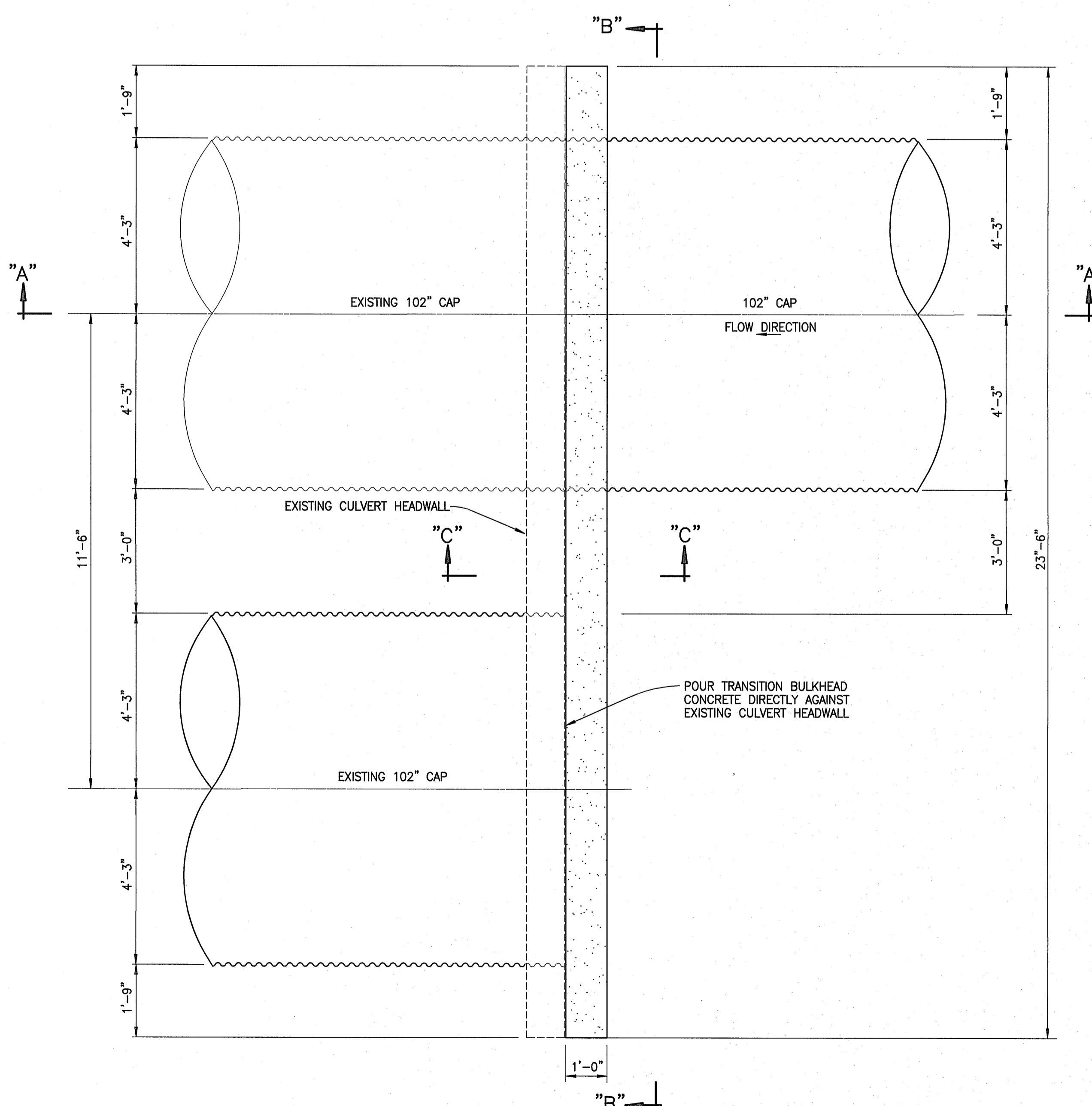
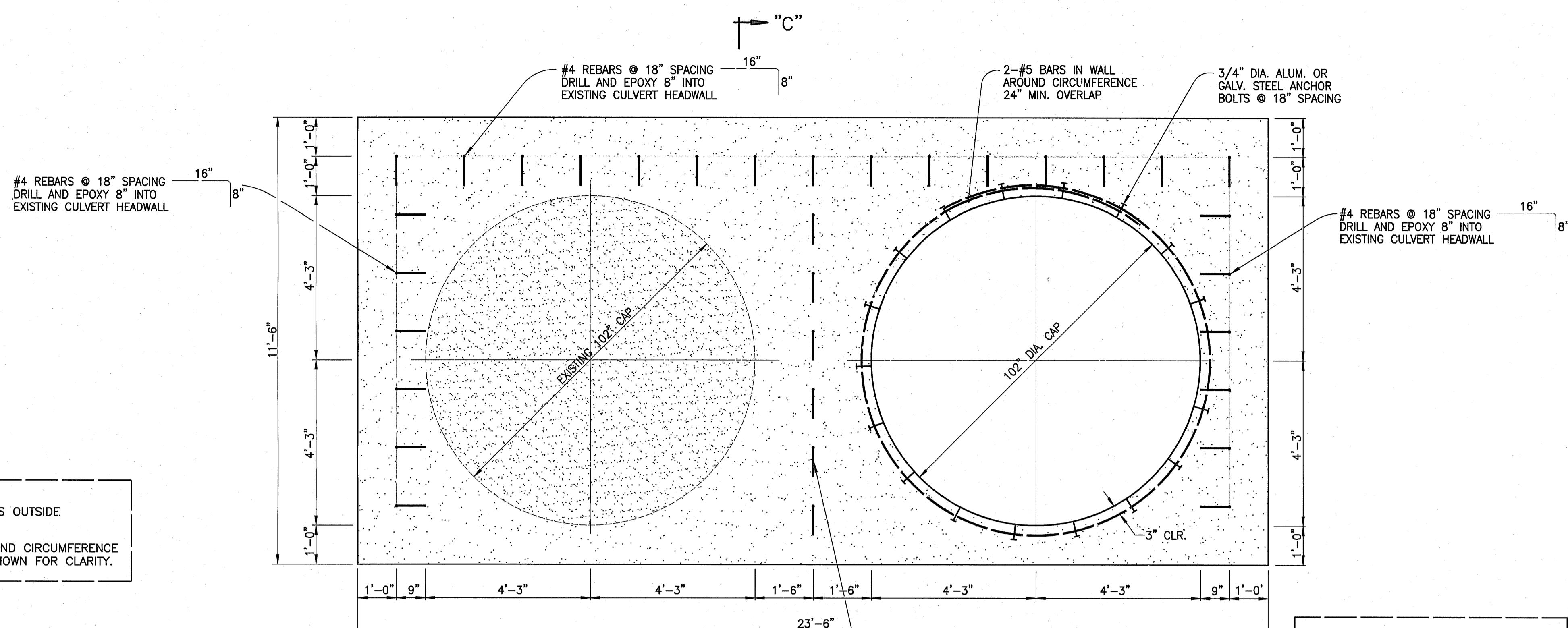
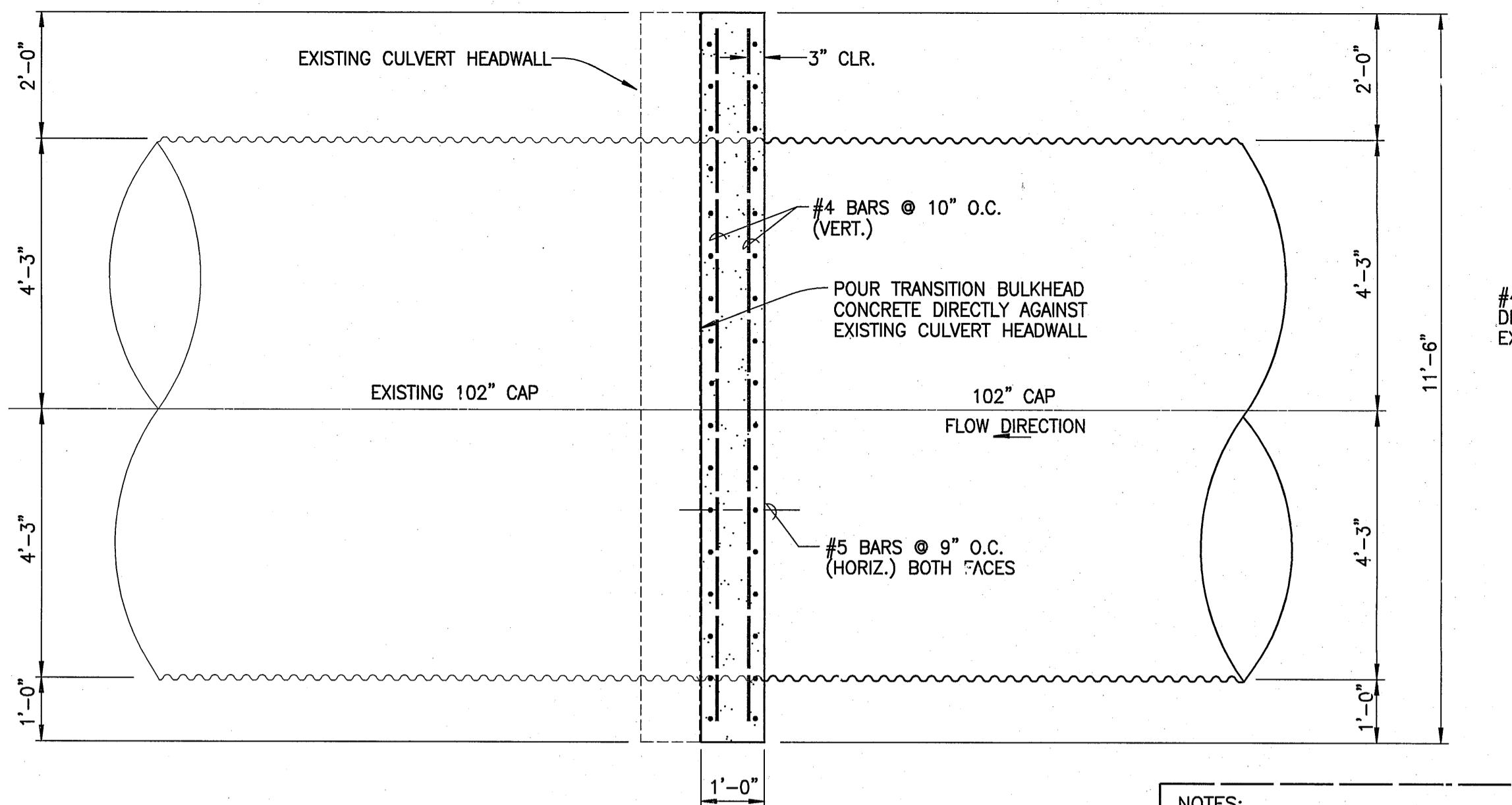
PLAN VIEW OF TRANSITION BULKHEAD AT
STA. (-)0+65± BETWEEN EXISTING 102" AND 72" CAP

SCALE: 1/2" = 1'-0"

CONCRETE: $f_c' = 4$ ksi
REINFORCEMENT: ASTM A615 GRADE 60

**3/4" CHAMFER ALL EXPOSED EDGES
OF CAST-IN-PLACE CONCRETE (TYP.)**





PLAN VIEW OF TRANSITION BULKHEAD AT STA. 0+58.13
BETWEEN EXISTING AND PROPOSED 102" CAP

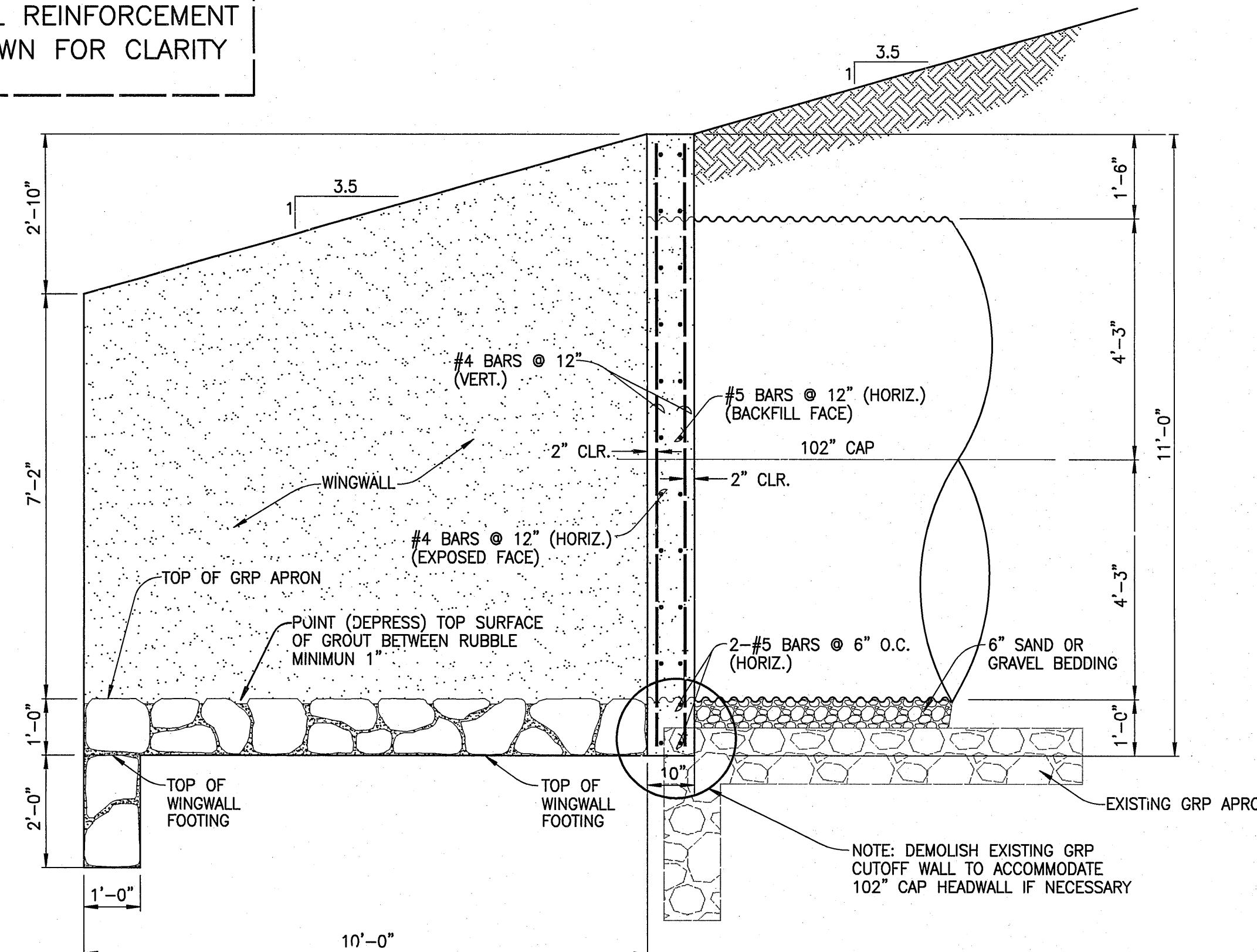
CONCRETE: f_c' = 4 ksi
REINFORCEMENT: ASTM A615 GRADE 60

3/4" CHAMFER ALL EXPOSED EDGES OF CAST-IN-PLACE CONCRETE (TYP.)

LETTER	DESCRIPTION	DATE
WIS	Revised Drawing Details	8/23/06

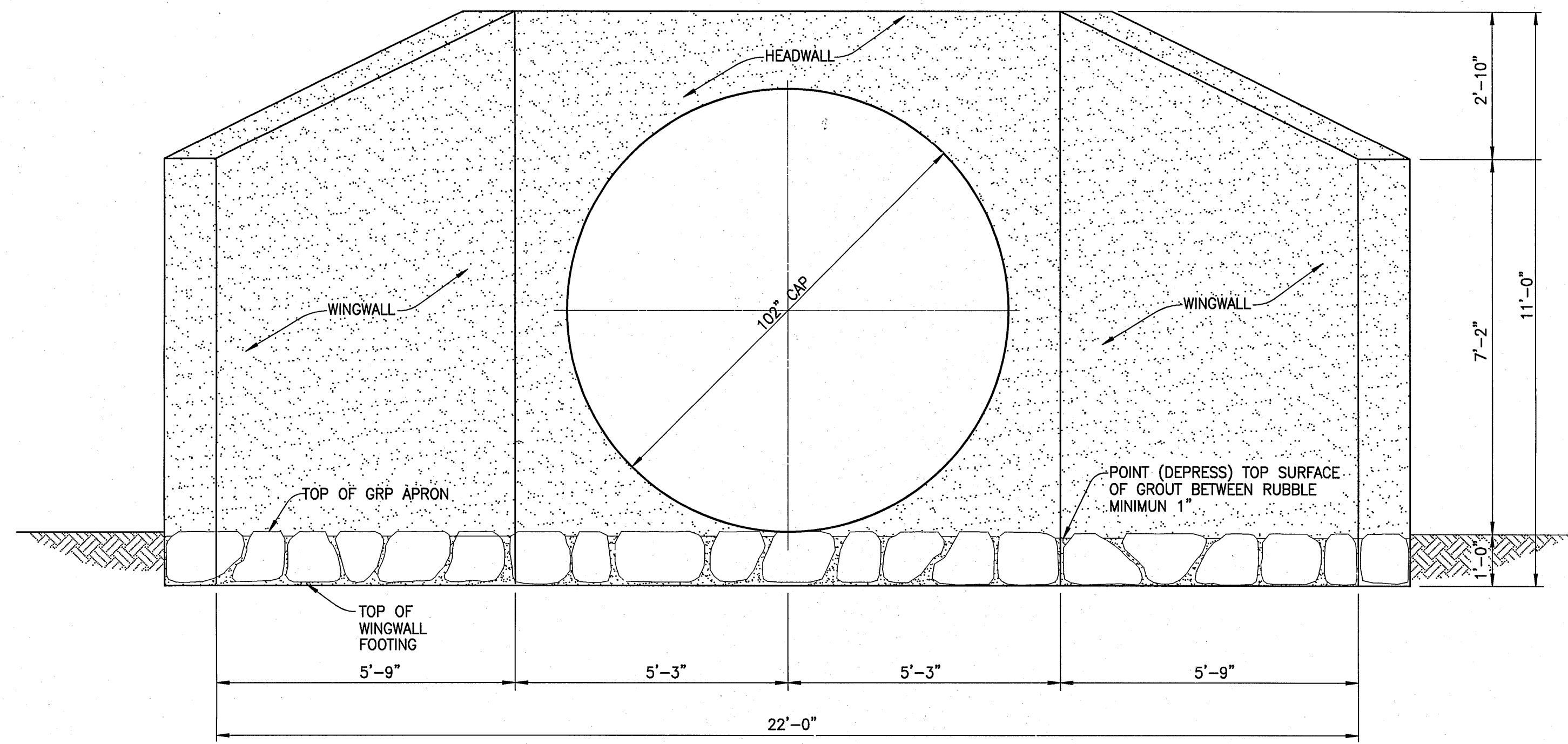
WARREN S. UNEMORI ENGINEERING, INC.	
CIVIL & STRUCTURAL ENGINEERS/LAND SURVEYORS	
WELLS STREET PROFESSIONAL CENTER, SUITE 403	
2145 WELLS STREET, WAILUKU, MAUI, HAWAII 96793	
ALAN L. UNEMORI LICENSED PROFESSIONAL ENGINEER NO. 9354-S HAWAII, U.S.A.	
KAONOULU MARKET PLACE	
T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16	
KIHEI, MAUI, HAWAII	
TITLE DRAINAGE DETAILS	
DESIGNED BY	WSU
DRAWN BY	WSU APPROVED BY
10-10-05	AS NOTED
10.03	OF SHEETS

NOTE: WINGWALL REINFORCEMENT
NOT SHOWN FOR CLARITY



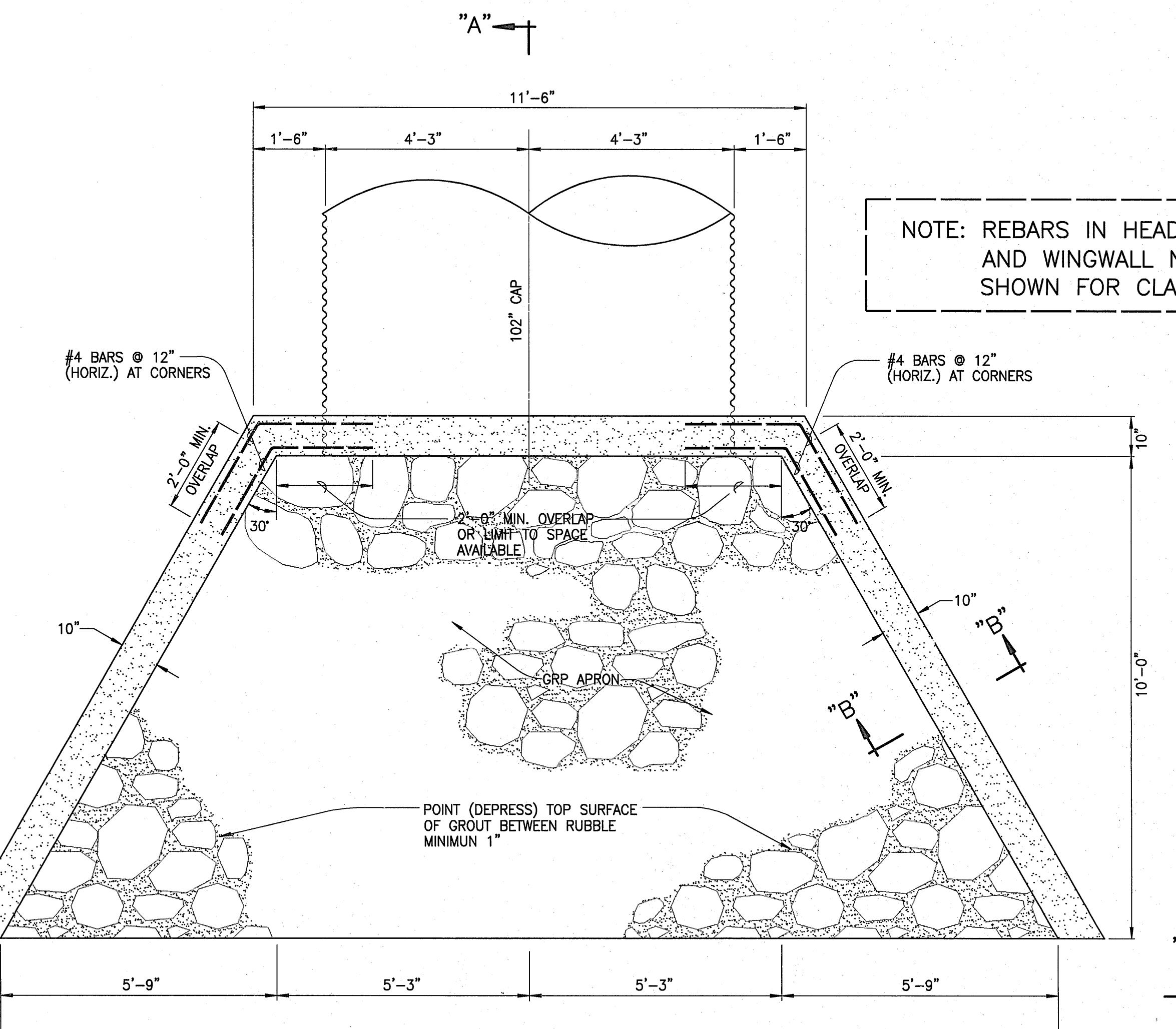
SECTION "A"- "A" SIDE ELEVATION VIEW OF WINGWALLS, GRP APRON AND CUTOFF WALL

SCALE: 1/2" = 1'-0"



SECTION "C"- "C" FRONT ELEVATION VIEW OF 72" CAP OUTLET

SCALE: 1/2" = 1'-0"

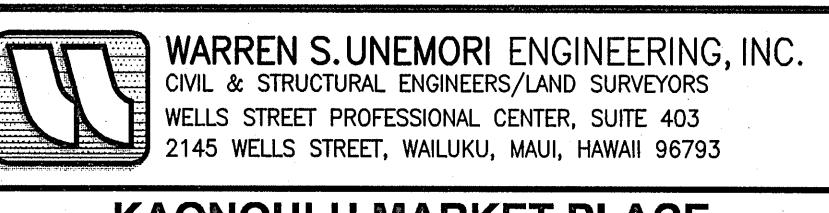
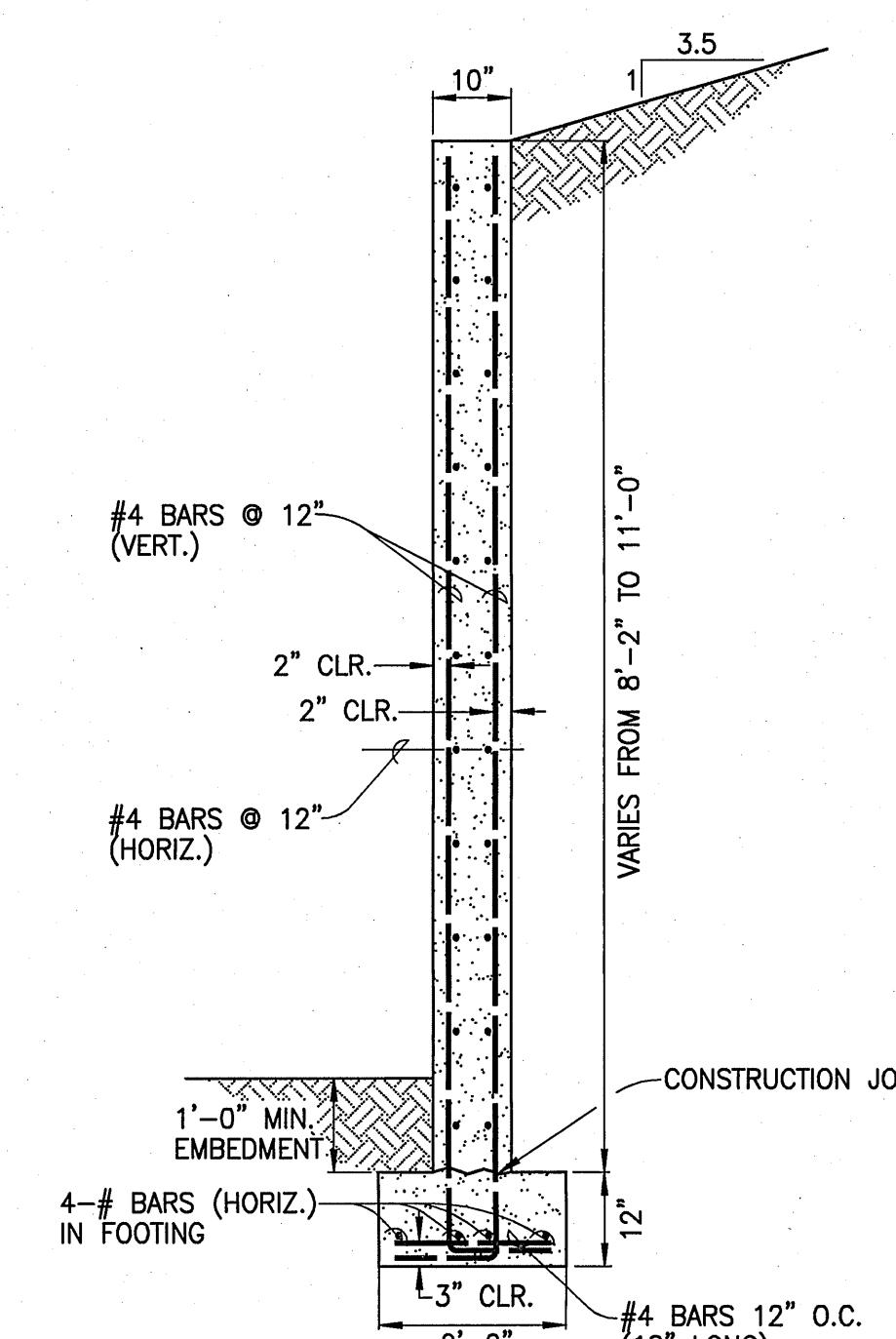


SECTION "B"- "B" WINGWALL CROSS-SECTION AND FOOTING

SCALE: 1/2" = 1'-0"

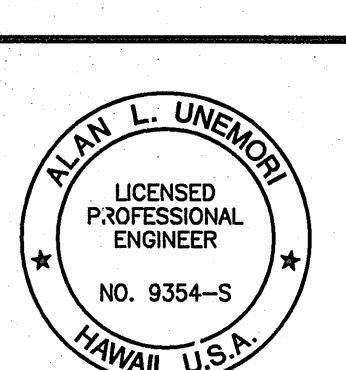
PLAN VIEW OF 72" CAP OUTLET HEADWALL AND WINGWALL AT STA. (-) 0+85±

SCALE: 1/2" = 1'-0"



KAONOULU MARKET PLACE
T.M.K.: (2) 2-2-02 : Por. of Par. 15 and 3-9-01 : 16
KIHEI, MAUI, HAWAII

TITLE DRAINAGE DETAILS



DATE: 10/27/2008

DESIGNED BY: ALU WSU
DRAWN BY: WIS WSU

CHECKED BY: WSU APPROVED BY:

04010.10 JOB NUMBER: 10.04
10-10-05 DATE: 10-10-05
SHEET OF SHEETS

LETTER	DESCRIPTION	DATE