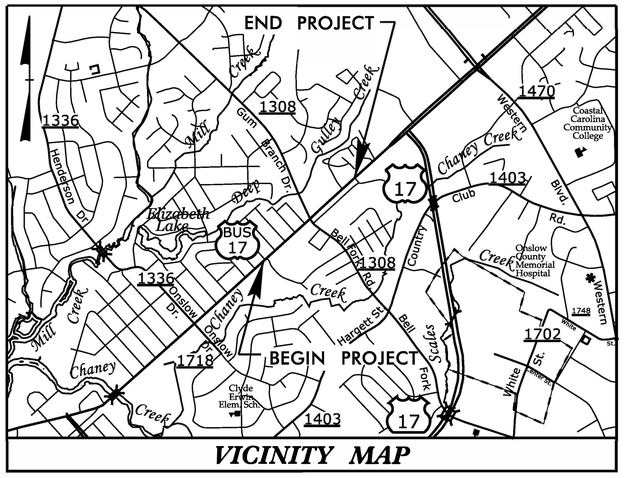
95/80/50

TIP PROJECT: U-5728

CONTRACT: D3POC0046

300.0000 ' / in.
3/23/2018
G:\Projects\15915\RDESIGN\03_CADD\PLANS\15915_XP_TSH_01.dgn
DAVENPORT\DAVENPORTWORLD

See Sheet 1-B For Conventional Plan Sheet Symbols



VICINITY MAP

ROW PLANS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ONSLOW COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5728	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
54019.1.1	N/A	PE
54019.2.1	N/A	ROW & UTIL

LOCATION: ***CITY OF JACKSONVILLE – US 17 BUSINESS (MARINE BOULEVARD) AT SR 1308 (BELL FORK RD./GUM BRANCH RD.)***

TYPE OF WORK: ***WIDENING, GRADING, DRAINAGE, PAVING, RESURFACING, AND SIGNALS***

NAD 83/2001

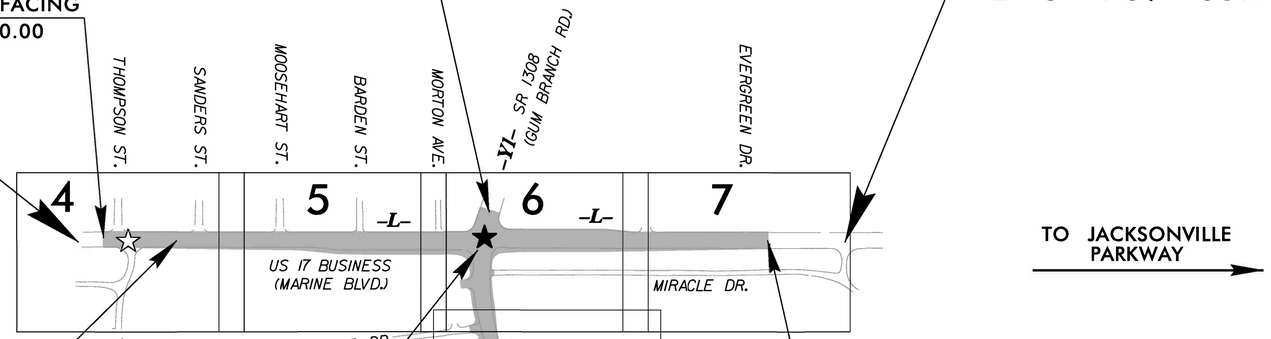
BEGIN RESURFACING
BEGIN CONSTRUCTION
–Y1– STA 11+00.00

BEGIN RESURFACING
–L– STA 10+00.00

END TIP PROJECT U-5728
–L– STA. 39+35.21

BEGIN TIP PROJECT U-5728
–L– STA. 9+00.00

TO ONSLOW DRIVE



TO JACKSONVILLE PARKWAY

END RESURFACING
BEGIN WIDENING
BEGIN OVERLAY
–L– STA 12+85.00

END RESURFACING
BEGIN OVERLAY
–Y1– STA 12+68.10

END RESURFACING
END CONSTRUCTION
–Y1– STA 21+50.00

END RESURFACING
–L– STA 36+30.00

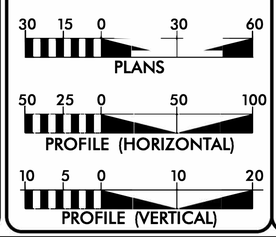
BEGIN RESURFACING
END OVERLAY
–Y1– STA 19+20.51

★ EXISTING SIGNAL TO BE UPGRADED
☆ EXISTING SIGNAL TO BE RETAINED

THIS IS NOT A CONTROL OF ACCESS PROJECT
THIS PROJECT IS WITHIN THE JACKSONVILLE MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III (MODIFIED).

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2020 = 21000
ADT 2040 = 25000
DHV = 10 %
D = 60 %
T = 2 % *
V = 50 MPH
* TTST 1% + DUAL 1%
FUNC CLASS = PRINC. ARTERIAL REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-5728 = 0.575 MILES
LENGTH STRUCTURE TIP PROJECT U-5728 = 0.000 MILES
TOTAL LENGTH OF TIP PROJECT U-5728 = 0.575 MILES

DAVENPORT

Prepared for the North Carolina Department of Transportation in the Office of:
HOME OFFICE
119 BROOKSTOWN AVENUE, SUITE PH1
WINSTON-SALEM, NC 27101
336.744.1636 www.davenportworld.com
NCBELS FIRM LICENSE NO. C-2522

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MARCH 15, 2018

LETTING DATE: MAY 7, 2020

DANIEL R. CUMBO, PE
PROJECT ENGINEER

DAVIN B. WALLACE, PE
PROJECT DESIGN ENGINEER

NCDOT CONTACT: TRACE HOWELL
DIVISION 3 CONTACT

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: P.E.

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

PROJECT REFERENCE NO.	SHEET NO.
U-5728	1-B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale **S.U.E. = Subsurface Utility Engineering*

04/06/15

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Existing Historic Property Boundary — HPB
- Known Contamination Area: Soil
- Potential Contamination Area: Soil
- Known Contamination Area: Water
- Potential Contamination Area: Water
- Contaminated Site: Known or Potential

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Proposed Right of Way Line with Iron Pin and Cap Marker — RW
- Proposed Right of Way Line with Concrete or Granite R/W Marker — RW
- Proposed Control of Access Line with Concrete C/A Marker — CA
- Existing Control of Access — CA
- Proposed Control of Access — CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- U/G Power Line LOS B (S.U.E.*) — P
- U/G Power Line LOS C (S.U.E.*) — P
- U/G Power Line LOS D (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- U/G Telephone Cable LOS B (S.U.E.*) — T
- U/G Telephone Cable LOS C (S.U.E.*) — T
- U/G Telephone Cable LOS D (S.U.E.*) — T
- U/G Telephone Conduit LOS B (S.U.E.*) — TC
- U/G Telephone Conduit LOS C (S.U.E.*) — TC
- U/G Telephone Conduit LOS D (S.U.E.*) — TC
- U/G Fiber Optics Cable LOS B (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS C (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS D (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- U/G Water Line LOS B (S.U.E*) — W
- U/G Water Line LOS C (S.U.E*) — W
- U/G Water Line LOS D (S.U.E*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- U/G TV Cable LOS B (S.U.E.*) — TV
- U/G TV Cable LOS C (S.U.E.*) — TV
- U/G TV Cable LOS D (S.U.E.*) — TV
- U/G Fiber Optic Cable LOS B (S.U.E.*) — TV FO
- U/G Fiber Optic Cable LOS C (S.U.E.*) — TV FO
- U/G Fiber Optic Cable LOS D (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- U/G Gas Line LOS B (S.U.E.*) — G
- U/G Gas Line LOS C (S.U.E.*) — G
- U/G Gas Line LOS D (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- SS Forced Main Line LOS B (S.U.E.*) — FSS
- SS Forced Main Line LOS C (S.U.E.*) — FSS
- SS Forced Main Line LOS D (S.U.E.*) — FSS

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line LOS B (S.U.E.*) — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole LOS A (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

300.0000 ' / in.
2/19/2018
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6/2/99

PROJECT REFERENCE NO.	SHEET NO.
U-5728	2A-1
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

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WINSTON-SALEM, NC 27101
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PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	R1	2′-6″ CONCRETE CURB AND GUTTER
C2	PROP. APPROX. 3″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R2	5″ MONOLITHIC CONCRETE ISLAND (KEYED IN)*
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1″ DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 3″ IN DEPTH.	S	4″ CONCRETE SIDEWALK
D1	PROP. APPROX. 4″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	T	EARTH MATERIAL
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1″ DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 2½″ IN DEPTH OR GREATER THAN 4″ IN DEPTH.	U	EXISTING PAVEMENT
E1	PROP. APPROX. 4″ ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL W)
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1″ DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3″ IN DEPTH OR GREATER THAN 5½″ IN DEPTH.		

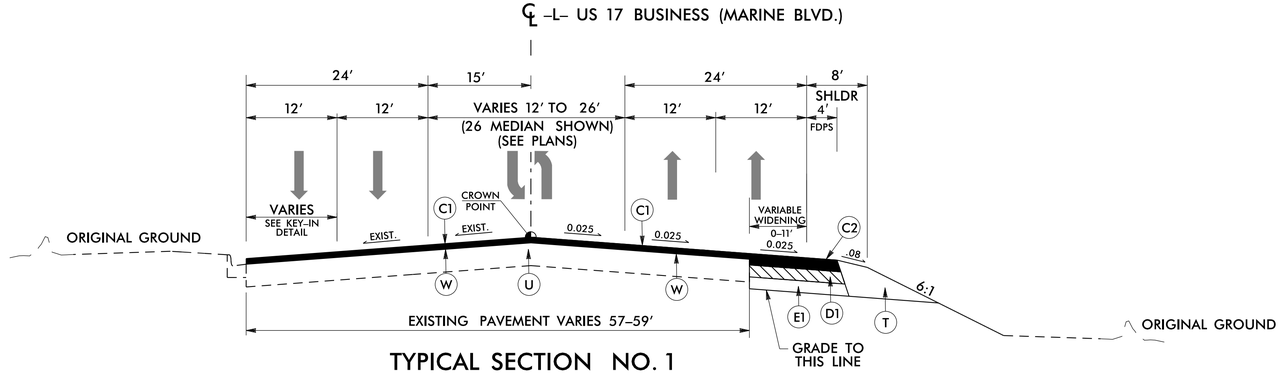
* SEE PLANS FOR LOCATIONS

NOTES: FOR LOCATIONS WHERE RESERFACING IS SPECIFIED, MILL TO A DEPTH OF APPROX. 1.5″ AND PLACE 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.

FOR LOCATIONS WHERE OVERLAY AND/OR WIDENING IS SPECIFICED, REFER TO TYPICALS SECTIONS AND ASSOCIATED DETAILS WHERE APPLICABLE.

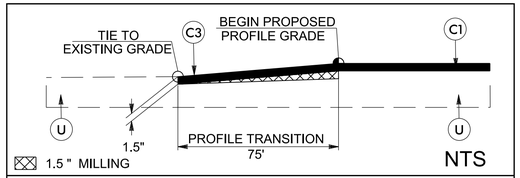
PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

TYPICAL SECTIONS ARE NOT TO SCALE (NTS).



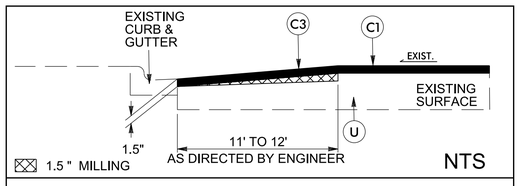
TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1 AS FOLLOWS
–L– STA. 12+85.00 TO 20+75.00



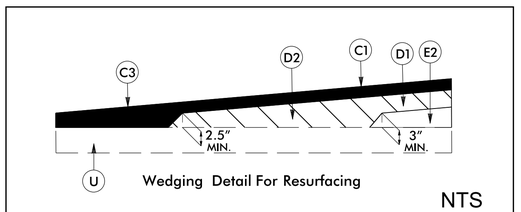
PROFILE TRANSITION DETAIL

USE THIS DETAIL IN COMBINATION WITH –L– & –Y– LINE PROFILES TO TRANSITION FROM EXISTING GRADE TO PROPOSED PROFILE GRADE

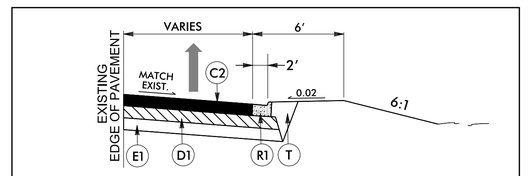


KEY-IN DETAIL

USE THIS DETAIL IN COMBINATION WITH –L– LINE TYPICAL SECTIONS NO. 1 THRU 5, AND FOR –Y– LINE TYPICAL SECTION NO. 7



DETAIL W SHOWING METHOD OF WEDGING



INSET 1A

USE INSET 1A IN COMBINATION WITH TYPICAL SECTION NO.1 AS FOLLOWS
–L– STA. 19+25.00 TO 20+75.00

10.0000 FT / in.
3/15/2018
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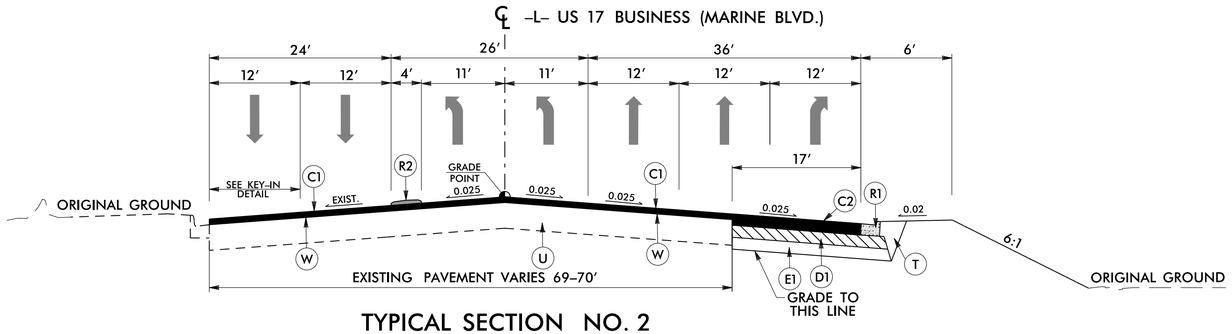
PAVEMENT SCHEDULE	
C1	1.5" S9.5B
C2	3.0" S9.5B
C3	VAR. S9.5B
D1	4.0" I19.0B
D2	VAR. I19.0B
E1	4.0" B25.0B
E2	VAR. B25.0B
R1	2'–6" C & G
R2	MONO. CONCRETE ISLAND
S	SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	WEDGING

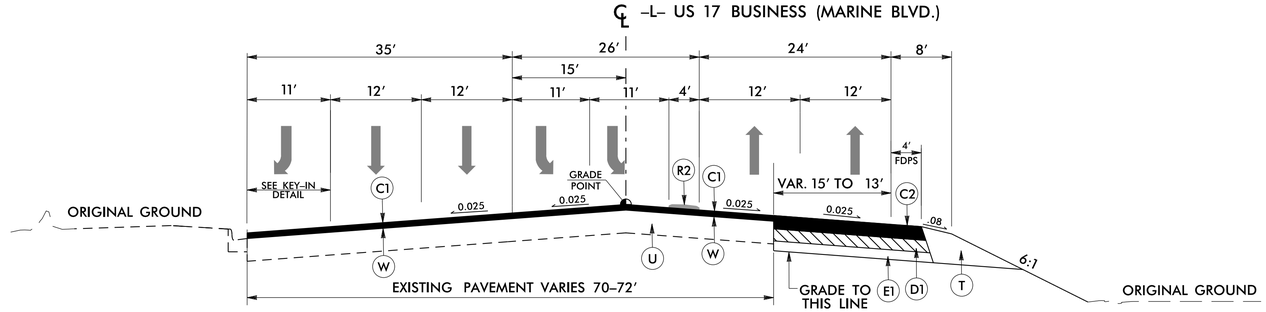
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

TYPICAL SECTIONS NOT TO SCALE (NTS.)



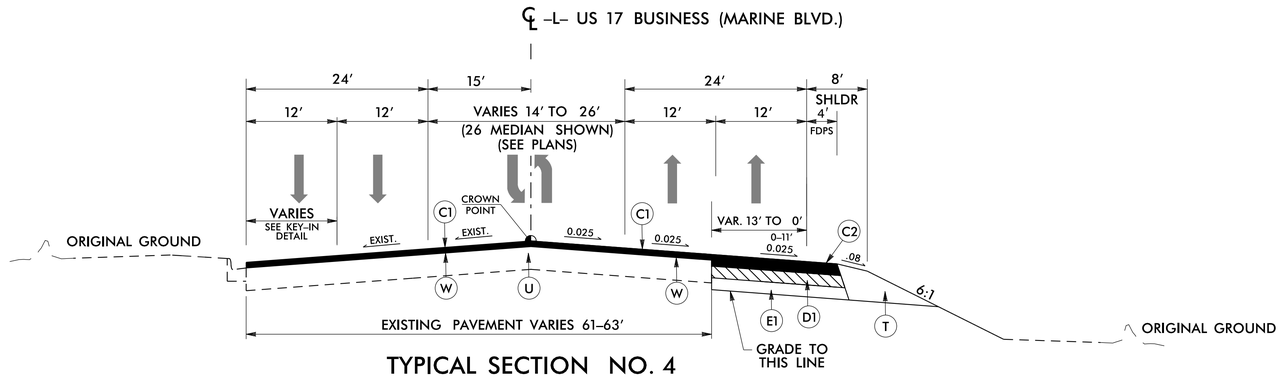
TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2 AS FOLLOWS
–L– STA. 20+75.00 TO 25+80.00



TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3 AS FOLLOWS
–L– STA. 25+80.00 TO 29+90.00



TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 1 AS FOLLOWS
–L– STA. 29+90.00 TO 36+30.00

PROJECT REFERENCE NO.	SHEET NO.
U-5728	2A-2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

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119 BROOKSTOWN AVENUE, SUITE PH1
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3/15/2018
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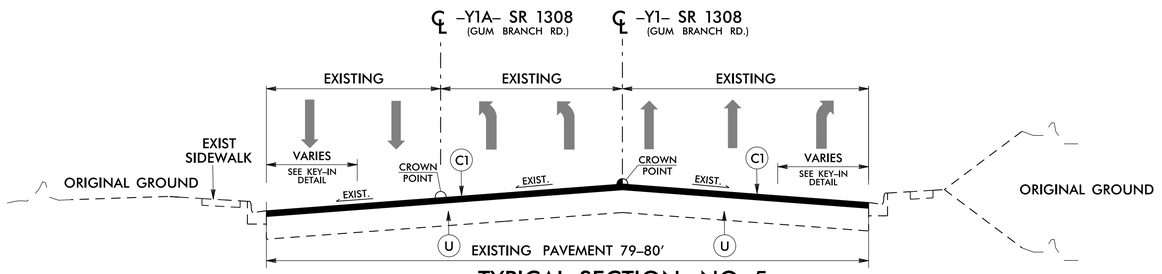
PAVEMENT SCHEDULE	
C1	1.5″ S9.5B
C2	3.0″ S9.5B
C3	VAR. S9.5B
D1	4.0″ I19.0B
D2	VAR. I19.0B
E1	4.0″ B25.0B
E2	VAR. B25.0B
R1	2′–6″ C & G
R2	MONO. CONCRETE ISLAND
S	SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	WEDGING

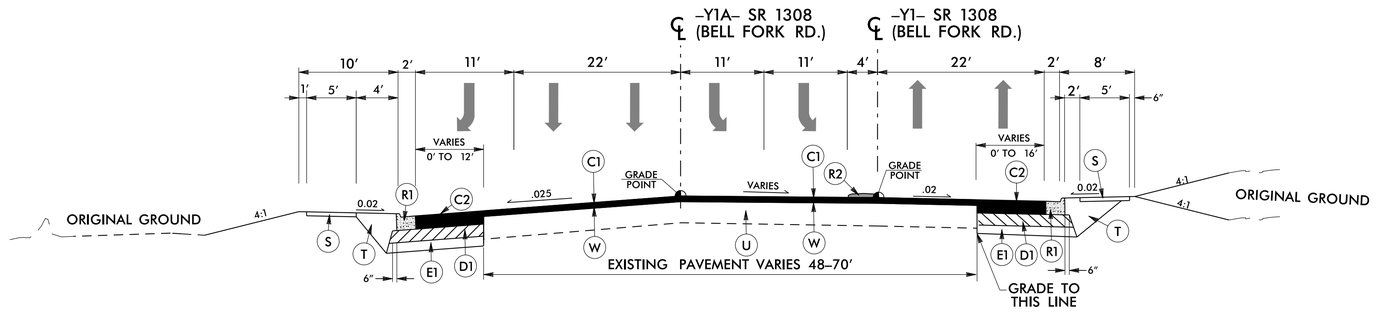
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

TYPICAL SECTIONS NOT TO SCALE (NTS.)



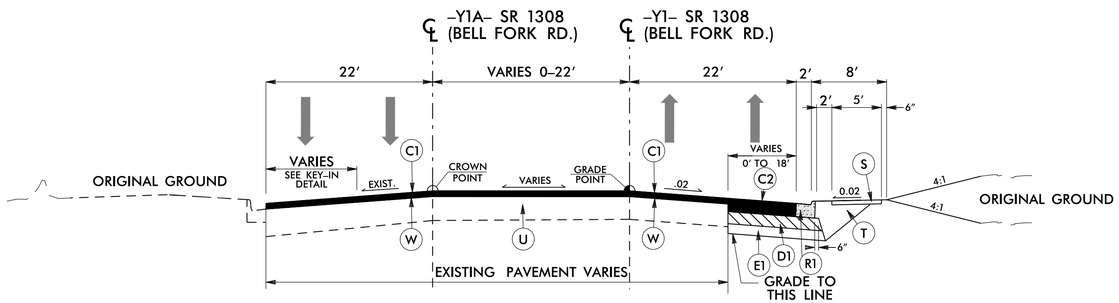
TYPICAL SECTION NO. 5

USE TYPICAL SECTION NO. 5 AS FOLLOWS
–Y1– STA. 11+00.00 TO 11+50.00



TYPICAL SECTION NO. 6

USE TYPICAL SECTION NO. 6 AS FOLLOWS
–Y1– STA. 12+95.00 TO 15+54.78



TYPICAL SECTION NO. 7

USE TYPICAL SECTION NO. 7 AS FOLLOWS
–Y1– STA. 15+54.78 TO 19+20.51

PROJECT REFERENCE NO.	SHEET NO.
U-5728	2A-3
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

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3/15/2018
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DAVENPORT\DAVENPORT USER

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-5728	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC DESIGN ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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NCBELS FIRM LICENSE NO. C-2522

NAD 83/2001

S 42°10'18" E 10.00'
S 48°04'42" W 139.84'
S 48°04'42" W 140.00'

BEGIN RESURFACING
–L– POT STA. 10+00.00

BEGIN TIP PROJECT U-5728
–L– POT STA. 9+00.00

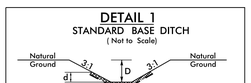
PLAINS COASTAL PROPERTIES LLC
DB 1509 - PG 715
MB 1 - PG 146

POPKIN BROTHERS ENT INC
DB 367 - PG 338
MB 1 - PG 146

JENKINS OIL CO INC
DB 533 - PG 573
MB 1 - PG 146

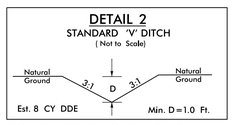
CITY OF JACKSONVILLE
DB 2440 - PG 809
MB 45 - PG 168

DETAIL 1
STANDARD BASE DITCH
(Not to Scale)



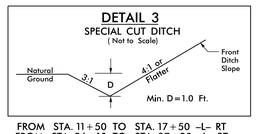
Type of Liner= Class 'I' Rip-Rap
Est. 85 Tons; Est. 130 SYGF
FROM STA. 09+85 TO STA. 10+26 –L– RT

DETAIL 2
STANDARD 'V' DITCH
(Not to Scale)



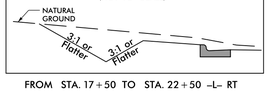
FROM STA. 09+82 TO STA. 10+40 –L– RT

DETAIL 3
SPECIAL CUT DITCH
(Not to Scale)



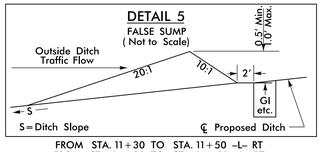
FROM STA. 11+50 TO STA. 17+50 –L– RT
FROM STA. 26+10 TO STA. 37+20 –L– RT

DETAIL 4
SPECIAL BACK OF CURB CUT DITCH
(NOT TO SCALE)



FROM STA. 17+50 TO STA. 22+50 –L– RT

DETAIL 5
FALSE SUMP
(Not to Scale)



FROM STA. 11+30 TO STA. 11+50 –L– RT
FROM STA. 14+30 TO STA. 14+50 –L– RT
FROM STA. 17+30 TO STA. 17+50 –L– RT
FROM STA. 19+10 TO STA. 19+30 –L– RT
FROM STA. 20+80 TO STA. 21+00 –L– RT
FROM STA. 23+14 TO STA. 23+34 –L– RT

REMOVE AND REPLACE CB
RETAIN
RETAIN CB
REMOVE
REMOVE JB
REMOVE AND REPLACE CB
PLUG
24" RCP-IV
FLOWABLE FILL
36" RCP-IV
PLUG
REMOVE PIPE & DI
REMOVE
SPECIAL CUT 'V' DITCH SEE DETAIL 3
FALSE SUMP SEE DETAIL 5
STANDARD 'V' DITCH GRADE=2.322% SEE DETAIL 2
PLACE FILL IN EXISTING CHANNEL
STANDARD 3 FT BASE DITCH LINE W/CL 'I' RIP RAP GRADE=0.948% SEE DETAIL 1
CL 'I' RIP RAP EST. 15 TONS EST. 30 SYGF
100' UNIFORM TRANSITION (WB LANES)
INSTALL MANHOLE ON EX. BLIND JB
790' UNIFORM TRANSITION (EB LANES)
8:1 TAPER
4' FDPS
BEGIN OVERLAY & WIDENING +85.00
MATCHLINE SEE SHEET 5 –L– STA. 15+00.00

REFERENCES:
FOR PROFILE OF -L- SEE SHEET 9

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PROJECT REFERENCE NO.	SHEET NO.
U-5728	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC DESIGN ENGINEER

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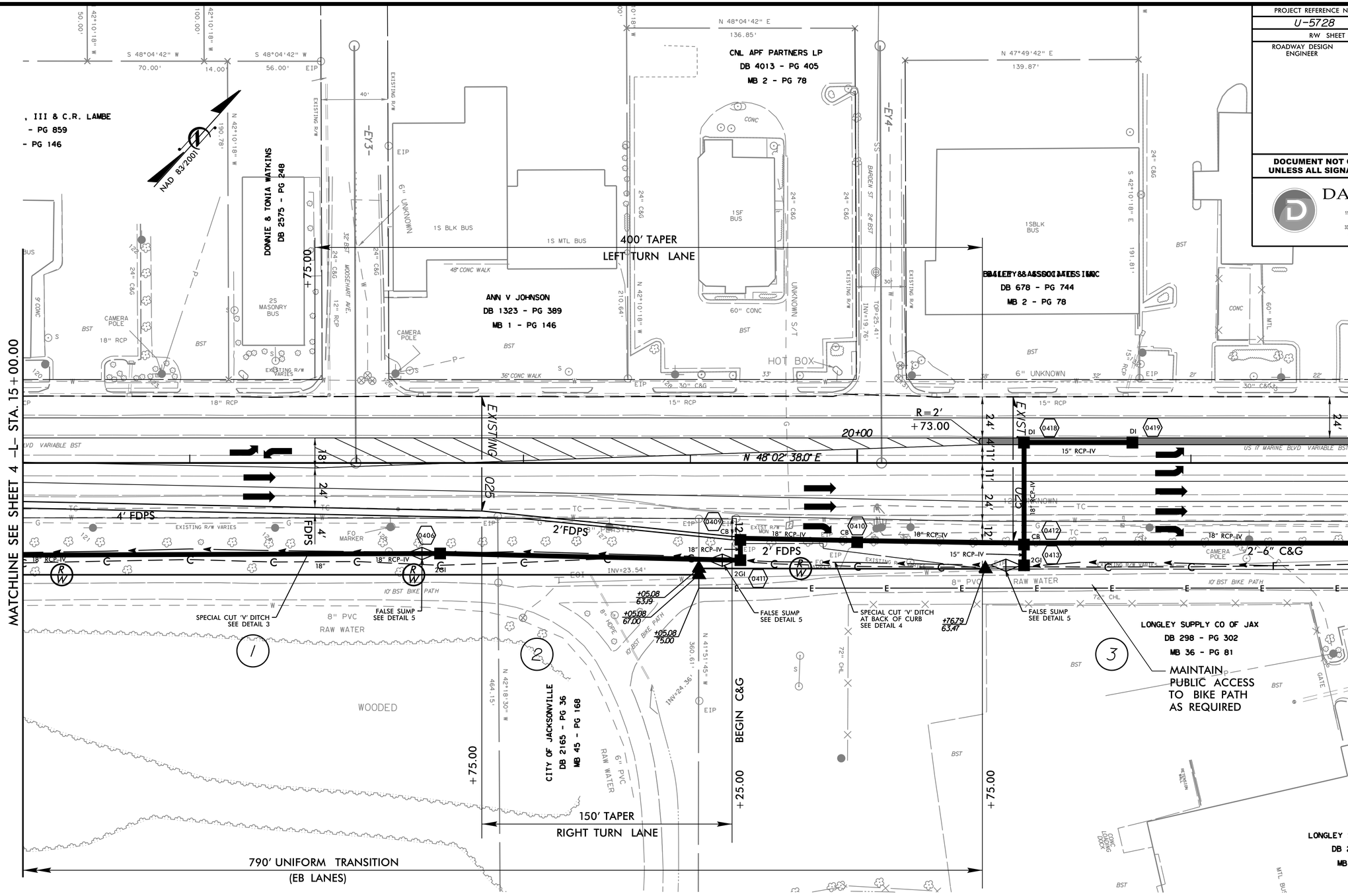
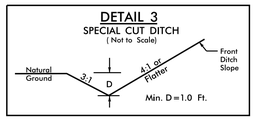
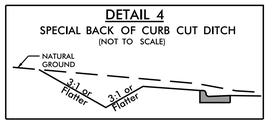


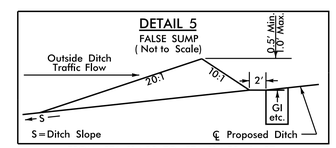
NOTE: TENTATIVE R/W AND TEMP. CONST. EASEMENTS HAVE BEEN SHOWN FOR EARLY UTILITIES COORDINATION. THEY ARE SUBJECT TO CHANGE, BASED ON FURTHER DESIGN RECOMMENDATIONS.



FROM STA. 11+50 TO STA. 19+25 -L- RT
FROM STA. 26+10 TO STA. 37+20 -L- RT



FROM STA. 19+25 TO STA. 22+50 -L- RT



FROM STA. 11+30 TO STA. 11+50 -L- RT
FROM STA. 14+30 TO STA. 14+50 -L- RT
FROM STA. 17+30 TO STA. 17+50 -L- RT
FROM STA. 19+10 TO STA. 19+30 -L- RT
FROM STA. 20+80 TO STA. 21+00 -L- RT
FROM STA. 23+14 TO STA. 23+34 -L- RT

REFERENCES:
FOR PROFILE OF -L- SEE SHEET 9

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PROJECT REFERENCE NO.	SHEET NO.
U-5728	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC DESIGN ENGINEER

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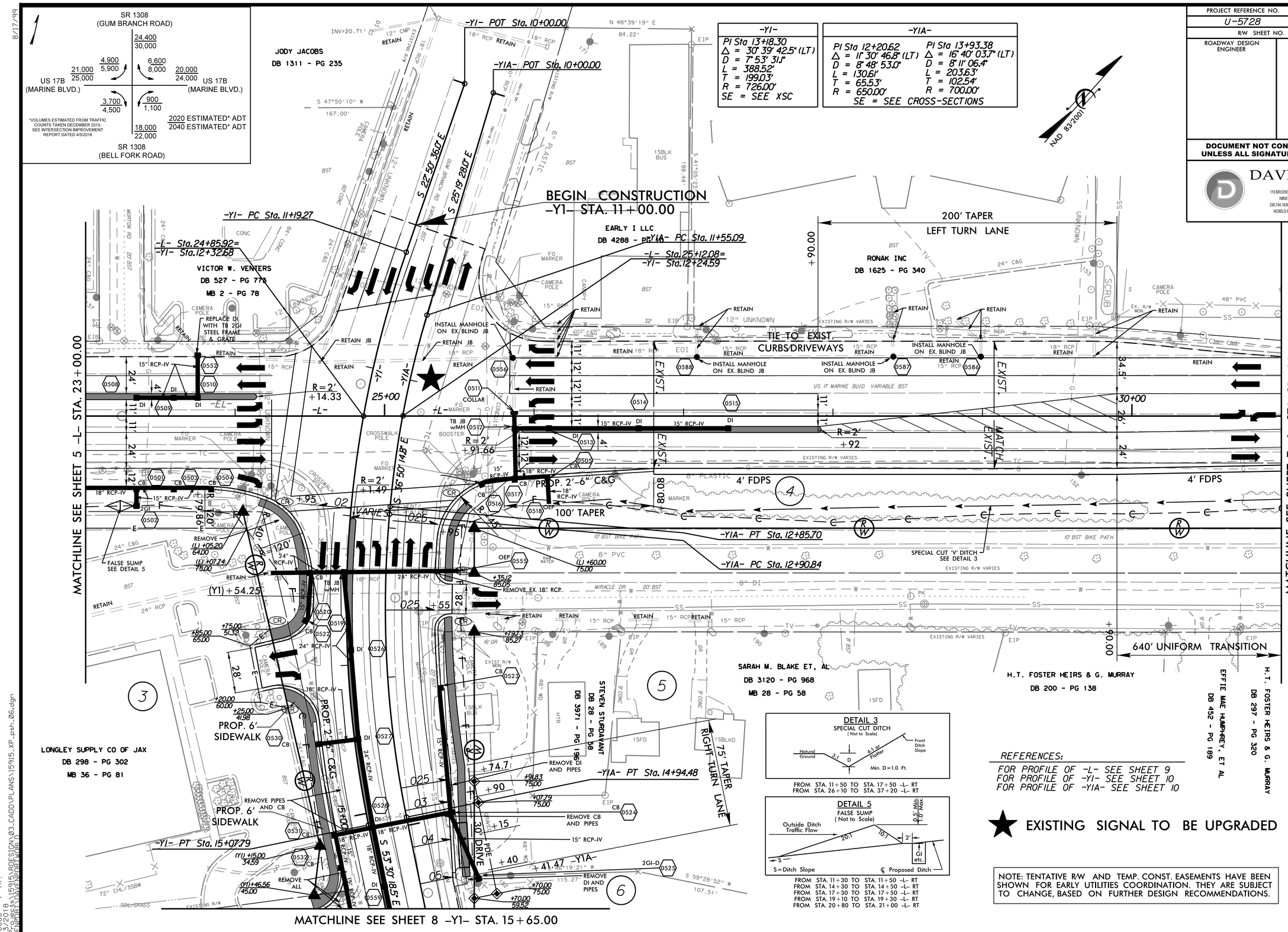

-Y1-	-Y1A-	
PI Sta 13+18.30	PI Sta 12+20.62	PI Sta 13+93.38
Δ = 30° 39' 42.5" (LT)	Δ = 11° 30' 46.8" (LT)	Δ = 16° 40' 03.7" (LT)
D = 7° 53' 31.1"	D = 8° 48' 53.0"	D = 8° 11' 06.4"
L = 388.52'	L = 130.61'	L = 203.63'
T = 199.03'	T = 65.53'	T = 102.54'
R = 726.00'	R = 650.00'	R = 700.00'
SE = SEE XSC	SE = SEE CROSS-SECTIONS	

DETAIL 3
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground, 3:1, D, 4:1 or Flatter, Front Ditch Slope
Min. D=1.0 Ft.

FROM STA. 11+50 TO STA. 17+50 -L- RT
FROM STA. 26+10 TO STA. 37+20 -L- RT

DETAIL 5
FALSE SUMP
(Not to Scale)
Outside Ditch Traffic Flow, 20:1, 10:1, 2', 0.5' Min. 1.0' Max., GI etc., S=Ditch Slope, ℄ Proposed Ditch

FROM STA. 11+30 TO STA. 11+50 -L- RT
FROM STA. 14+30 TO STA. 14+50 -L- RT
FROM STA. 17+30 TO STA. 17+50 -L- RT
FROM STA. 19+10 TO STA. 19+30 -L- RT
FROM STA. 20+80 TO STA. 21+00 -L- RT

REFERENCES:
FOR PROFILE OF -L- SEE SHEET 9
FOR PROFILE OF -Y1- SEE SHEET 10
FOR PROFILE OF -Y1A- SEE SHEET 10

★ EXISTING SIGNAL TO BE UPGRADED

NOTE: TENTATIVE R/W AND TEMP. CONST. EASEMENTS HAVE BEEN SHOWN FOR EARLY UTILITIES COORDINATION. THEY ARE SUBJECT TO CHANGE, BASED ON FURTHER DESIGN RECOMMENDATIONS.

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PROJECT REFERENCE NO.	SHEET NO.
U-5728	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC DESIGN ENGINEER

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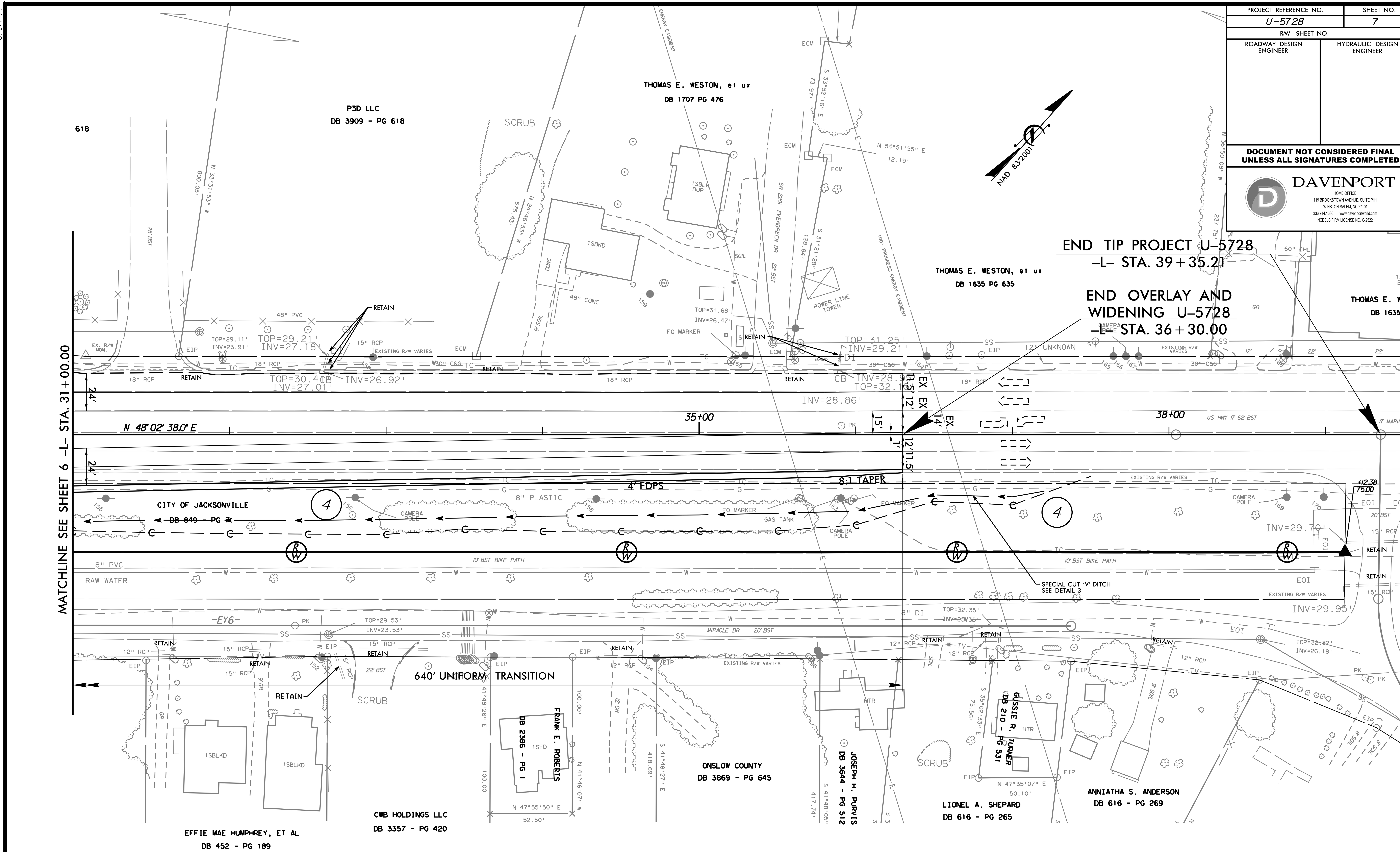

REFERENCES:

FOR PROFILE OF -L- SEE SHEET 9

NOTE: TENTATIVE R/W AND TEMP. CONST. EASEMENTS HAVE BEEN SHOWN FOR EARLY UTILITIES COORDINATION. THEY ARE SUBJECT TO CHANGE, BASED ON FURTHER DESIGN RECOMMENDATIONS.

DETAIL 3
SPECIAL CUT DITCH
(Not to Scale)

FROM STA. 11+50 TO STA. 17+50 -L- RT
FROM STA. 26+10 TO STA. 37+20 -L- RT

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3/23/2018
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PROJECT REFERENCE NO.	SHEET NO.
U-5728	8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC DESIGN ENGINEER

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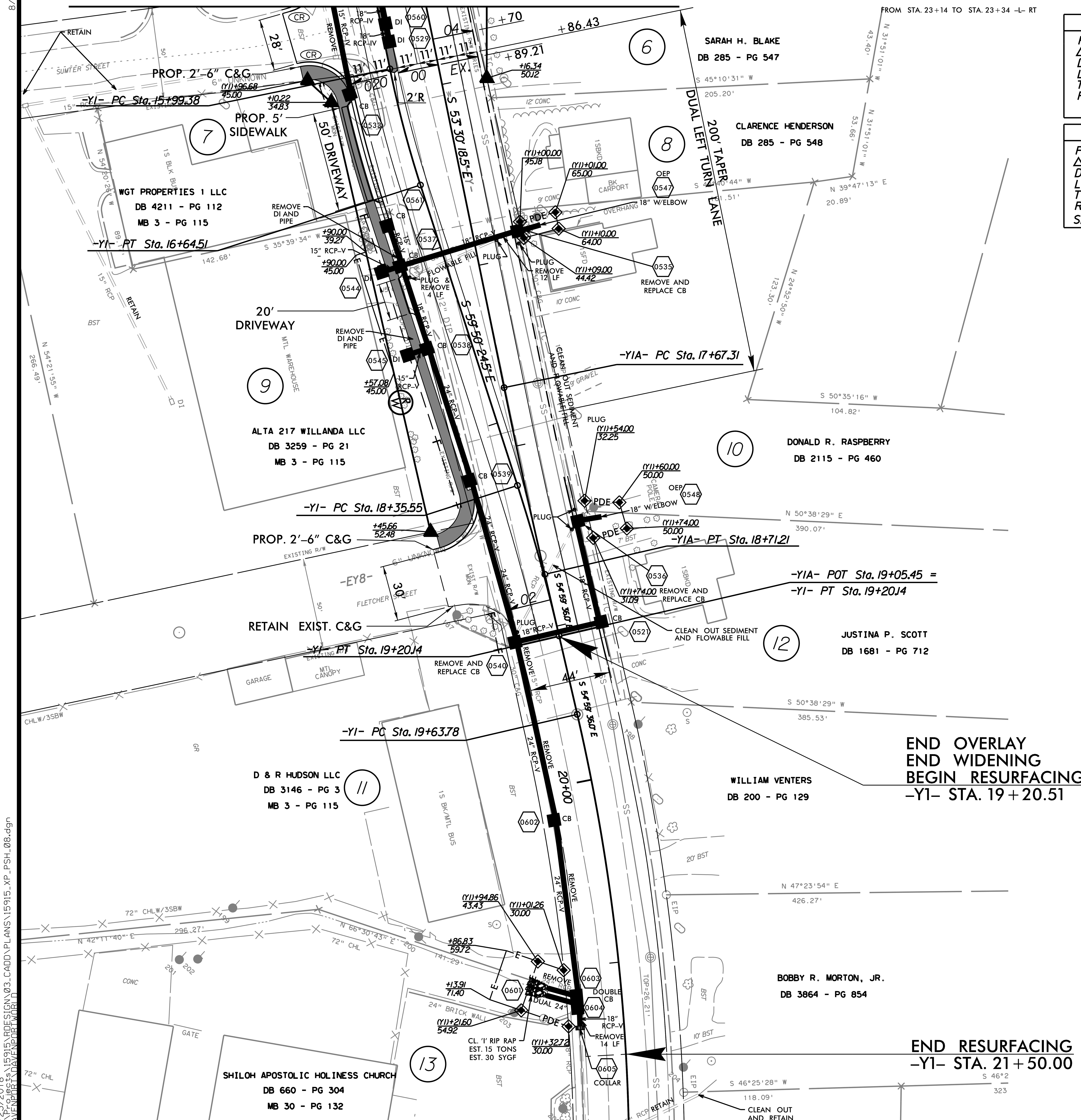
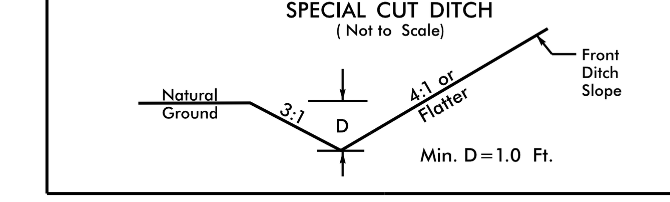
MATCHLINE SEE SHEET 6 -Y1- STA. 15+65.00



-Y1-		
PI Sta 16+31.98	PI Sta 18+77.87	PI Sta 22+14.74
Δ = 6° 20' 06.0" (LT)	Δ = 4° 50' 48.5" (RT)	Δ = 25° 54' 00.0" (RT)
D = 9° 43' 39.5"	D = 5° 43' 46.5"	D = 5° 15' 00.0"
L = 65.12'	L = 84.59'	L = 493.33'
T = 32.60'	T = 42.32'	T = 250.96'
R = 589.00'	R = 1,000.00'	R = 1,091.35'
SE = SEE CROSS-SECTIONS		

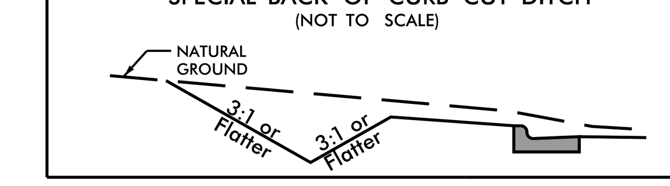
-Y1A-
PI Sta 18+19.62
Δ = 1° 29' 17.5" (LT)
D = 1° 25' 56.6"
L = 103.90'
T = 51.95'
R = 4,000.00'
SE = NC

DETAIL 3
SPECIAL CUT DITCH
(Not to Scale)



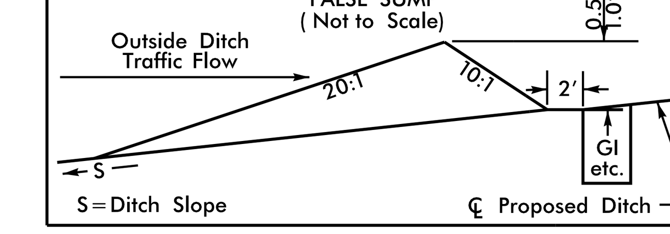
FROM STA. 11+50 TO STA. 17+50 -L- RT
FROM STA. 26+10 TO STA. 37+20 -L- RT

DETAIL 4
SPECIAL BACK OF CURB CUT DITCH
(NOT TO SCALE)



FROM STA. 17+50 TO STA. 22+50 -L- RT

DETAIL 5
FALSE SUMP
(Not to Scale)



FROM STA. 11+30 TO STA. 11+50 -L- RT
FROM STA. 14+30 TO STA. 14+50 -L- RT
FROM STA. 17+30 TO STA. 17+50 -L- RT
FROM STA. 19+10 TO STA. 19+30 -L- RT
FROM STA. 20+80 TO STA. 21+00 -L- RT
FROM STA. 23+14 TO STA. 23+34 -L- RT

REFERENCES:
FOR PROFILE OF -Y1- SEE SHEET 10

NOTE: TENTATIVE R/W AND TEMP. CONST. EASEMENTS HAVE BEEN SHOWN FOR EARLY UTILITIES COORDINATION. THEY ARE SUBJECT TO CHANGE, BASED ON FURTHER DESIGN RECOMMENDATIONS.

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5/28/99

PROJECT REFERENCE NO.	SHEET NO.
U-5728	9
ROADWAY DESIGN ENGINEER	HYDRAULIC DESIGN ENGINEER

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-L-

PIPE HYDRAULIC DATA
36" RCP-IV Sta. 10+14

DRAINAGE AREA	= 5.0	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 31	CFS
DESIGN HW ELEVATION	= 17.6	FT
100 YEAR DISCHARGE	= 33	CFS
100 YEAR HW ELEVATION	= 17.7	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 85	CFS
OVERTOPPING ELEVATION	= 22.6	FT

STORM DRAINAGE SYSTEM LINK 0425

BEGIN 1.5" RESURFACING
-L- STA. 10+00.00

END RESURFACING
BEGIN OVERLAY AND WIDENING
-L- STA. 12+85.00
EL=24.54'

PROFILE TRANSITION
75'

BEGIN PROPOSED GRADE
-L- STA. 17+75.00
EL = 26.68

PI = 19+00.00
EL = 27.11'
VC = 250'
K = 7887
DS > 70 MPH

END DITCH GRADE RT
PI STA 22+50
ELEV=24.53

-L- STA. 13+60.00 EL = 25.02'
-L- STA. 14+00.00 EL = 25.15'
-L- STA. 14+50.00 EL = 25.43'
-L- STA. 15+00.00 EL = 25.65'
-L- STA. 15+50.00 EL = 25.71'
-L- STA. 16+00.00 EL = 25.92'
-L- STA. 16+50.00 EL = 26.20'
-L- STA. 17+00.00 EL = 26.39'
-L- STA. 17+50.00 EL = 26.57'

(+)0.6400% (+)0.3250% (+)0.5600% (+)0.4400% (+)0.1200% (+)0.4200% (+)0.5600% (+)0.3800% (+)0.3600% (+)0.5935% (+)0.3431% (+)0.3114% (+)0.3114% (-)0.3040%

EXISTING GRADE

(+)0.3000% (+)0.3500% (+)0.6440% (+)0.2000%

PROPOSED 36" RCP-III
ST A10+14
ELEV.=14.43

BEGIN DITCH GRADE
PI STA 11+50 RT
ELEV=20.47'

PI STA 14+50 RT
ELEV=20.37

PI STA 17+50 RT
ELEV=22.42

PI STA 20+00 RT
ELEV=24.03

PROPOSED 18" RCP-IV
ST A 21+00
ELEV.=22.03

PIPE HYDRAULIC DATA
18" RCP-IV Sta. 21+00

DRAINAGE AREA	= 0.1	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 0.8	CFS
DESIGN HW ELEVATION	= 23.1	FT
100 YEAR DISCHARGE	= 0.9	CFS
100 YEAR HW ELEVATION	= 23.1	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 18	CFS
OVERTOPPING ELEVATION	= 27.4	FT

STORM DRAINAGE SYSTEM LINK 0418

PI = 22+50.00
EL = 28.20'
VC = 100'
K = 162
DS > 50 MPH

PI = 23+75.00
EL = 27.82'
VC = 150'
K = 196
DS > 65 MPH

REFERENCES:
FOR PLAN OF -L- SEE SHEETS 4,5,6,& 7

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

40 30 20 10 0

-L-

PIPE HYDRAULIC DATA
18" RCP-IV Sta. 25+87

DRAINAGE AREA	= 2.4	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 9	CFS
DESIGN HW ELEVATION	= 27.2	FT
100 YEAR DISCHARGE	= 10	CFS
100 YEAR HW ELEVATION	= 27.4	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 14	CFS
OVERTOPPING ELEVATION	= 28.6	FT

STORM DRAINAGE SYSTEM LINK 0512

PI = 26+00.00
EL = 28.86'
VC = 150'
K = 583
DS > 70 MPH

END PROPOSED GRADE
-L- STA. 28+00.00
EL = 29.27'

END OVERLAY AND WIDENING
-L- STA. 36+30.00
EL=33.41'

PROFILE TRANSITION
75'

-L- STA. 28+50.00 EL = 29.42'
-L- STA. 29+00.00 EL = 29.61'
-L- STA. 29+50.00 EL = 29.83'
-L- STA. 30+00.00 EL = 30.01'
-L- STA. 30+50.00 EL = 30.27'
-L- STA. 31+00.00 EL = 30.55'
-L- STA. 31+50.00 EL = 30.80'
-L- STA. 32+00.00 EL = 31.16'
-L- STA. 32+50.00 EL = 31.51'
-L- STA. 33+00.00 EL = 31.80'
-L- STA. 33+50.00 EL = 32.09'
-L- STA. 34+00.00 EL = 32.40'
-L- STA. 34+50.00 EL = 32.69'
-L- STA. 35+00.00 EL = 33.02'
-L- STA. 35+50.00 EL = 32.25'
-L- STA. 35+55.00 EL = 32.27'

(+)0.4622% (+)0.4622% (+)0.2050% (+)0.2050% (+)0.3000% (+)0.3800% (+)0.4400% (+)0.3600% (+)0.5149% (+)0.5657% (+)0.5000% (+)0.7129% (+)0.7071% (+)0.5800% (+)0.5743% (+)0.6263% (+)0.5800% (-)0.6600% (+)0.4600% (+)0.4000% (+)0.1867% (+)11.6250%

(+)0.5525% (+)0.5525%

PROPOSED 18" RCP-IV
STA.25+87
ELEV.=21.84

BEGIN DITCH GRADE
PI STA 26+10 RT
ELEV=24.00

PI STA 36+00 RT
ELEV=29.47

END DITCH GRADE
PI STA 37+20 RT
ELEV=31.42

REFERENCES:
FOR PLAN OF -L- SEE SHEETS 4,5,6,& 7

24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

40 30 20 10 0

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5/28/99

–Y1–

PROJECT REFERENCE NO.	SHEET NO.
U-5728	10
ROADWAY DESIGN ENGINEER	HYDRAULIC DESIGN ENGINEER

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PIPE HYDRAULIC DATA
EX.18" RCP Sta. 13+38

DRAINAGE AREA	= 6.5	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 10	CFS
DESIGN HW ELEVATION	= 24.4	FT
100 YEAR DISCHARGE	= 11	CFS
100 YEAR HW ELEVATION	= 24.6	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 15	CFS
OVERTOPPING ELEVATION	= 25.9	FT

STORM DRAINAGE SYSTEM LINK 0555

END RESURFACING
BEGIN PROPOSED GRADE
–Y1– STA. 12+68.10
EL = 27.76'

PI = 13+30.00
EL = 27.72'
VC = 80'
K = 149
DS > 45 MPH

PI = 14+20.00
EL = 27.18'
VC = 100'
K = 325
DS > 70 MPH

PIPE HYDRAULIC DATA
18" RCP-IV Sta. 15+10

DRAINAGE AREA	= 1.0	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 5	CFS
DESIGN HW ELEVATION	= 23.8	FT
100 YEAR DISCHARGE	= 6	CFS
100 YEAR HW ELEVATION	= 23.9	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 15	CFS
OVERTOPPING ELEVATION	= 26.4	FT

STORM DRAINAGE SYSTEM LINK 0528

PI = 16+80.00
EL = 26.42'
VC = 130'
K = 224
DS > 70 MPH

PIPE HYDRAULIC DATA
18" RCP-V Sta. 17+03

DRAINAGE AREA	= 0.7	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 4	CFS
DESIGN HW ELEVATION	= 23.4	FT
100 YEAR DISCHARGE	= 4	CFS
100 YEAR HW ELEVATION	= 23.4	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 14	CFS
OVERTOPPING ELEVATION	= 25.8	FT

STORM DRAINAGE SYSTEM LINK 0535

PI = 18+05.00
EL = 26.78'
VC = 100'
K = 128
DS > 45 MPH

PIPE HYDRAULIC DATA
18" RCP-V Sta. 19+18

DRAINAGE AREA	= 0.7	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 4	CFS
DESIGN HW ELEVATION	= 22.9	FT
100 YEAR DISCHARGE	= 4	CFS
100 YEAR HW ELEVATION	= 22.9	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 15	CFS
OVERTOPPING ELEVATION	= 25.1	FT

STORM DRAINAGE SYSTEM LINK 0521

END PROPOSED GRADE
BEGIN RESURFACING
–Y1– STA. 19+20.51
EL. = 26.21'

PROFILE TRANSITION 75'

(–)0.0646%

(–)0.6000%

(–)0.2923%

(+)0.2880%

PROFILE TRANSITION 75'

(–)0.4935%

BEGIN 1.5" MILLING AND RESURFACING
–Y1– STA 11+00.00

EXISTING 18" RCP STA.13+37 ELEV.=21.89

PROPOSED 18" RCP-IV STA.15+10 ELEV.=22.07

PROPOSED 18" RCP-V STA.17+03 ELEV.=22.07

PROPOSED 18" RCP-V STA.19+18 ELEV.=21.40

END RESURFACING
END CONSTRUCTION
–Y1– STA. 21+50.00

REFERENCES:
FOR PLAN OF –Y1– SEE SHEETS 6 & 8

–Y1A–

PI = 13+15.00
EL = 28.12'
VC = 100'
K = 114
DS > 40 MPH

PIPE HYDRAULIC DATA
18" RCP-IV Sta. 14+97

DRAINAGE AREA	= 1.0	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 5	CFS
DESIGN HW ELEVATION	= 23.8	FT
100 YEAR DISCHARGE	= 6	CFS
100 YEAR HW ELEVATION	= 23.9	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 15	CFS
OVERTOPPING ELEVATION	= 26.4	FT

STORM DRAINAGE SYSTEM LINK 0524

PI = 15+00.00
EL = 27.40'
VC = 100'
K = 285
DS > 55 MPH

END RESURFACING
BEGIN PROPOSED GRADE
–Y1A– STA. 12+60.03
EL = 27.85'

BEGIN 1.5" MILLING AND RESURFACING
–Y1A– STA. 11+50.00

(+)0.4912%

(–)0.3892%

(–)0.7398%

END PROPOSED GRADE
BEGIN RESURFACING
NBL THRU LANES
–Y1A– STA. 15+89.21
EL=26.74'

END –Y1A–
–Y1A– STA 19+05.82
–Y1– STA. 19+19.21

EXISTING 18" RCP STA.13+29 ELEV.=22.28

PROPOSED 18" RCP-IV STA.14+97 ELEV.=22.17

PROPOSED 18" RCP-V STA.16+88 ELEV.=21.96

PROPOSED 18" RCP-V STA.19+03 ELEV.=21.40

PIPE HYDRAULIC DATA
EX.18" RCP Sta. 13+29

DRAINAGE AREA	= 6.5	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 10	CFS
DESIGN HW ELEVATION	= 24.4	FT
100 YEAR DISCHARGE	= 11	CFS
100 YEAR HW ELEVATION	= 24.6	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 15	CFS
OVERTOPPING ELEVATION	= 25.9	FT

STORM DRAINAGE SYSTEM LINK 0555

PIPE HYDRAULIC DATA
18" RCP-V Sta. 16+88

DRAINAGE AREA	= 0.7	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 4	CFS
DESIGN HW ELEVATION	= 23.4	FT
100 YEAR DISCHARGE	= 4	CFS
100 YEAR HW ELEVATION	= 23.4	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 14	CFS
OVERTOPPING ELEVATION	= 25.8	FT

STORM DRAINAGE SYSTEM LINK 0535

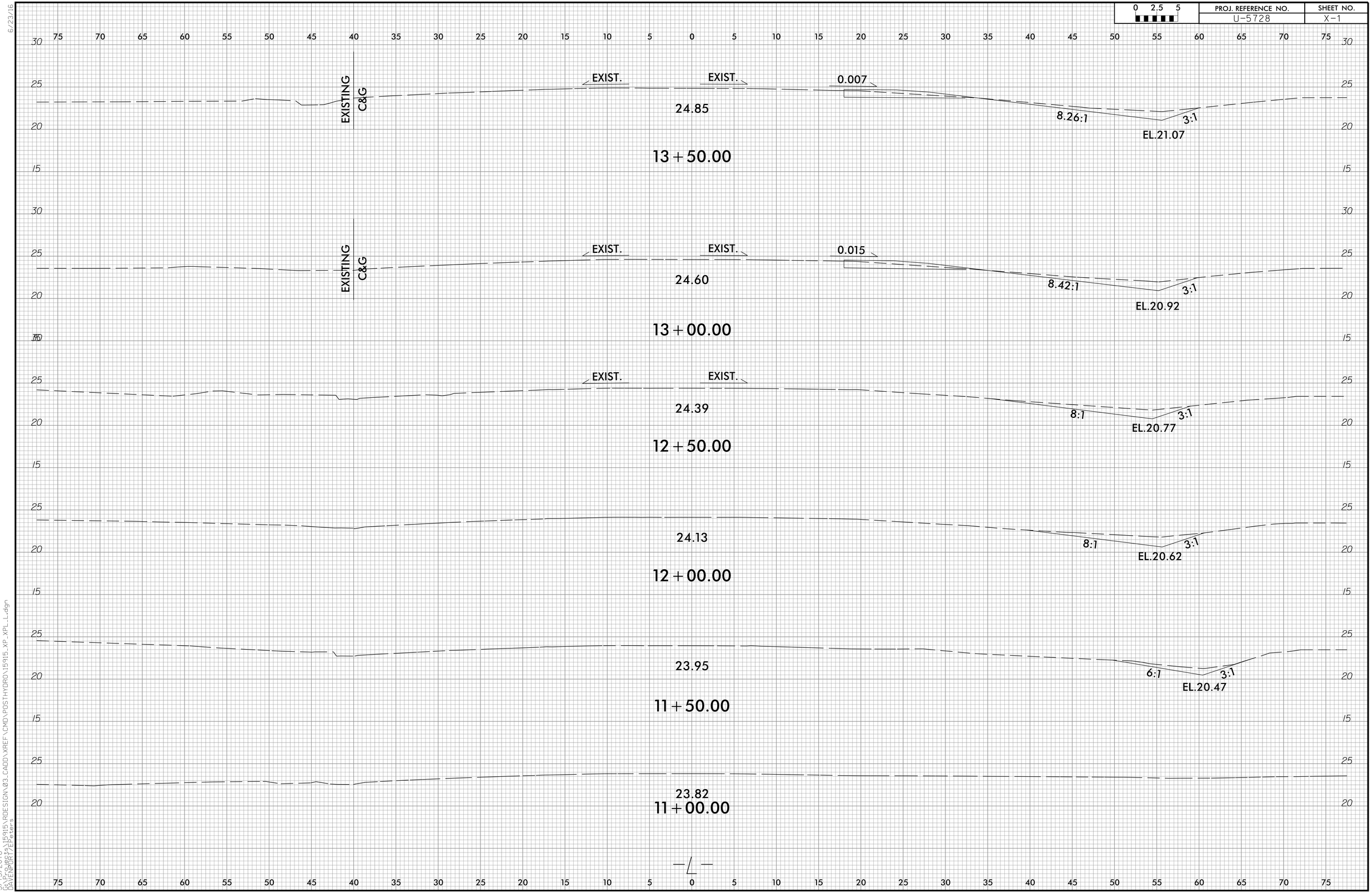
PIPE HYDRAULIC DATA
18" RCP-V Sta. 19+03

DRAINAGE AREA	= 0.7	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 4	CFS
DESIGN HW ELEVATION	= 22.9	FT
100 YEAR DISCHARGE	= 4	CFS
100 YEAR HW ELEVATION	= 22.9	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 15	CFS
OVERTOPPING ELEVATION	= 25.1	FT

STORM DRAINAGE SYSTEM LINK 0521

REFERENCES:
FOR PLAN OF –Y1A– SEE SHEETS 6 & 8

50.0000 ' / in.
3/15/2018
C:\Users\15915\DESIGN\03.CADD\PLANS\15915_XP.psh_07_of1.dgn
DAVENPORT\DAVENPORT WORLD



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3/15/2018
G:\Projects\15915\RDESIGN\03_CADD\XREF\CMD\POSTHYDRO\15915_XP_XPL_L.dgn
DAVENPORT/Peters

0 2.5 5

PROJ. REFERENCE NO.	SHEET NO.
U-5728	X-2

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

30 25 20 15

EXISTING C&G

EXIST. EXIST.

25.58

0.030

7:1 6:1

EL.21.72

15+50.00

30 25 20 15

EXISTING C&G

EXIST. EXIST.

25.52

0.027

7:1 6:1

EL.21.55

15+00.00

30 25 20 15

EXISTING C&G

EXIST. EXIST.

25.30

0.013

7.51:1 3:1

EL.21.37

14+50.00

30 25 20 15

EXISTING C&G

EXIST. EXIST.

25.02

0.020

8.09:1 3:1

EL.21.22

14+00.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

3/15/2018
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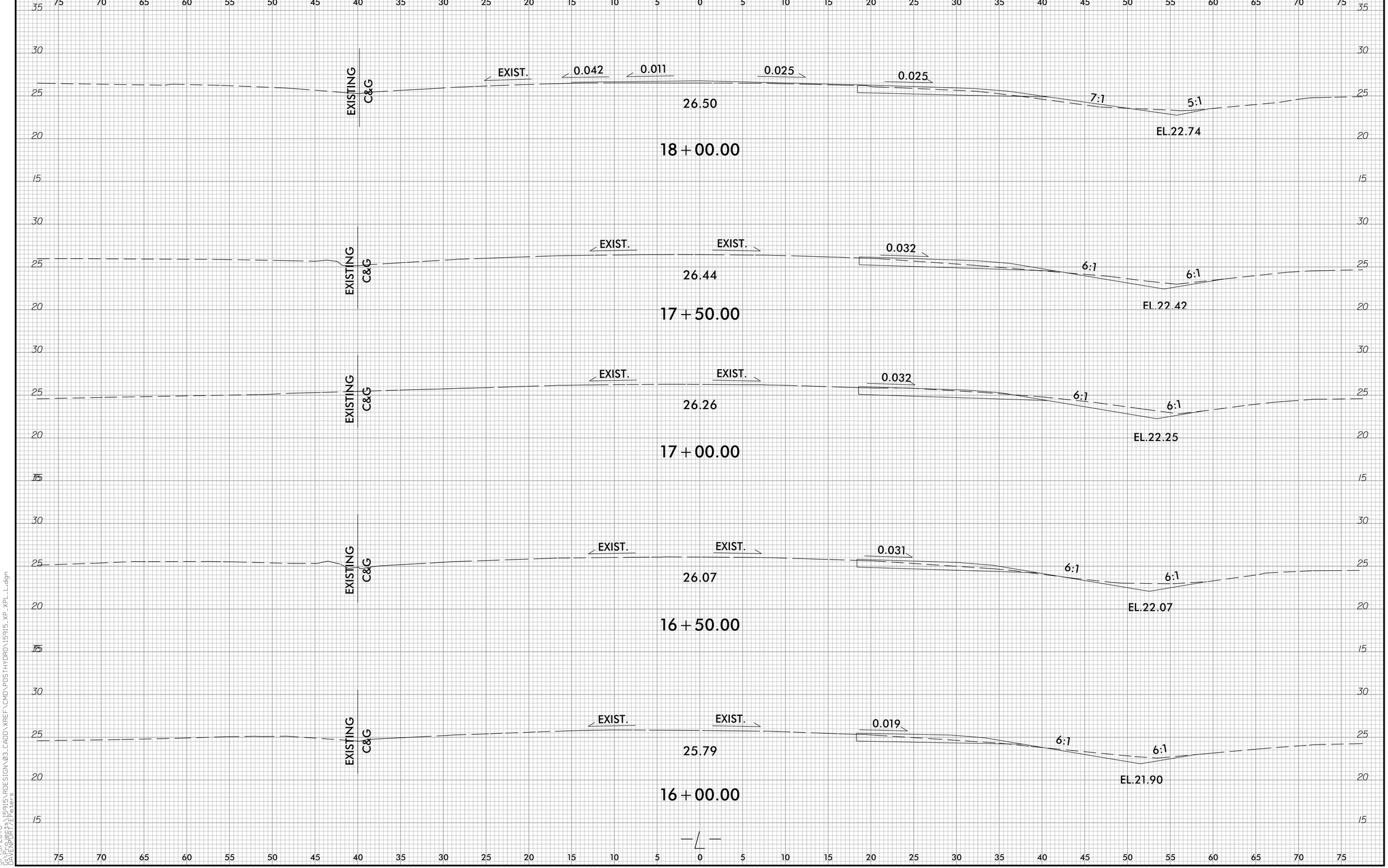
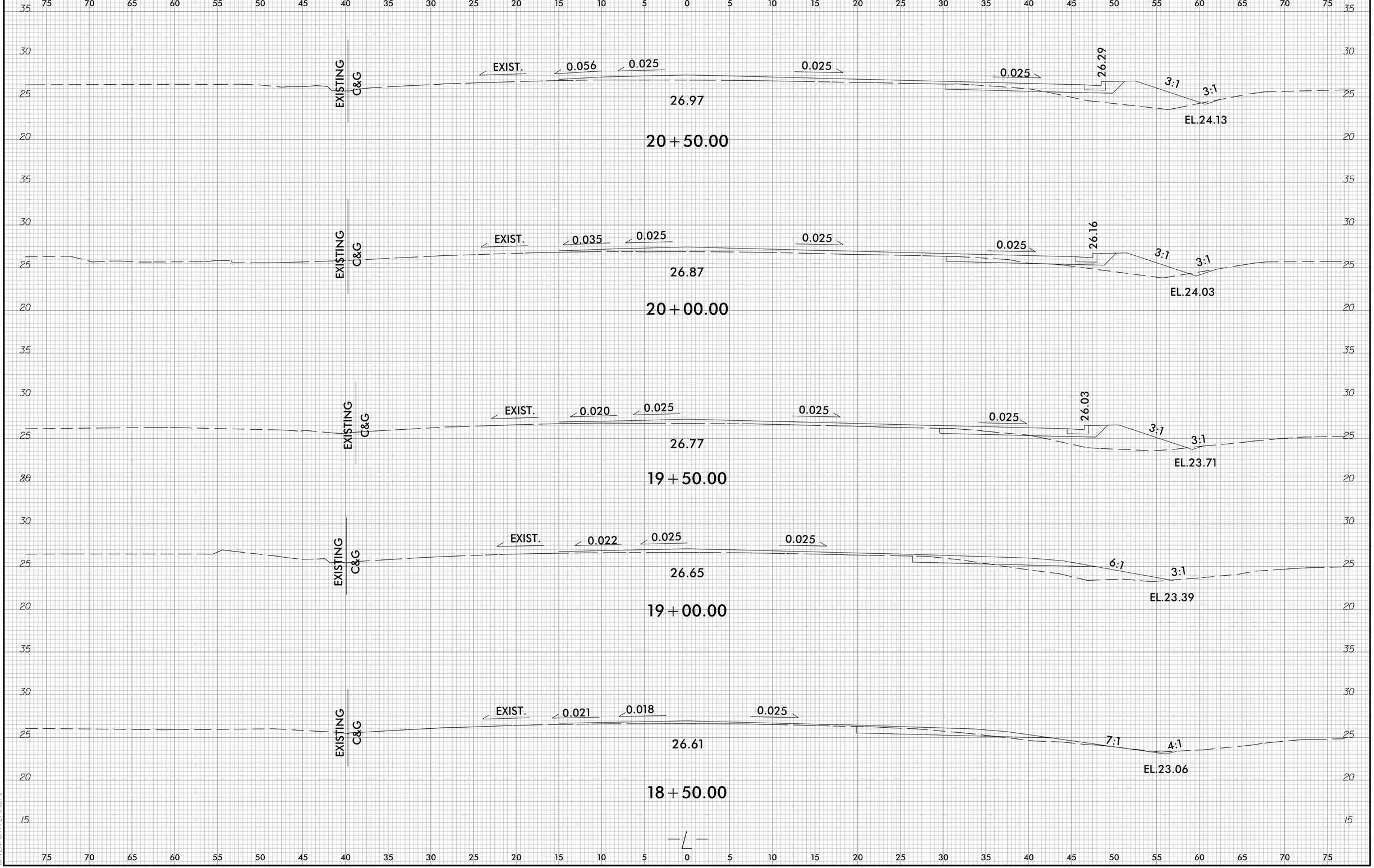
DAVENPORT/Peters

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-3



3/15/2018
G:\Projects\15915\RDESIGN\03-CADD\XREF\CMD\POSTHYDRO\15915_XP_XPL_L.dgn
DAVENPORT/EPeters

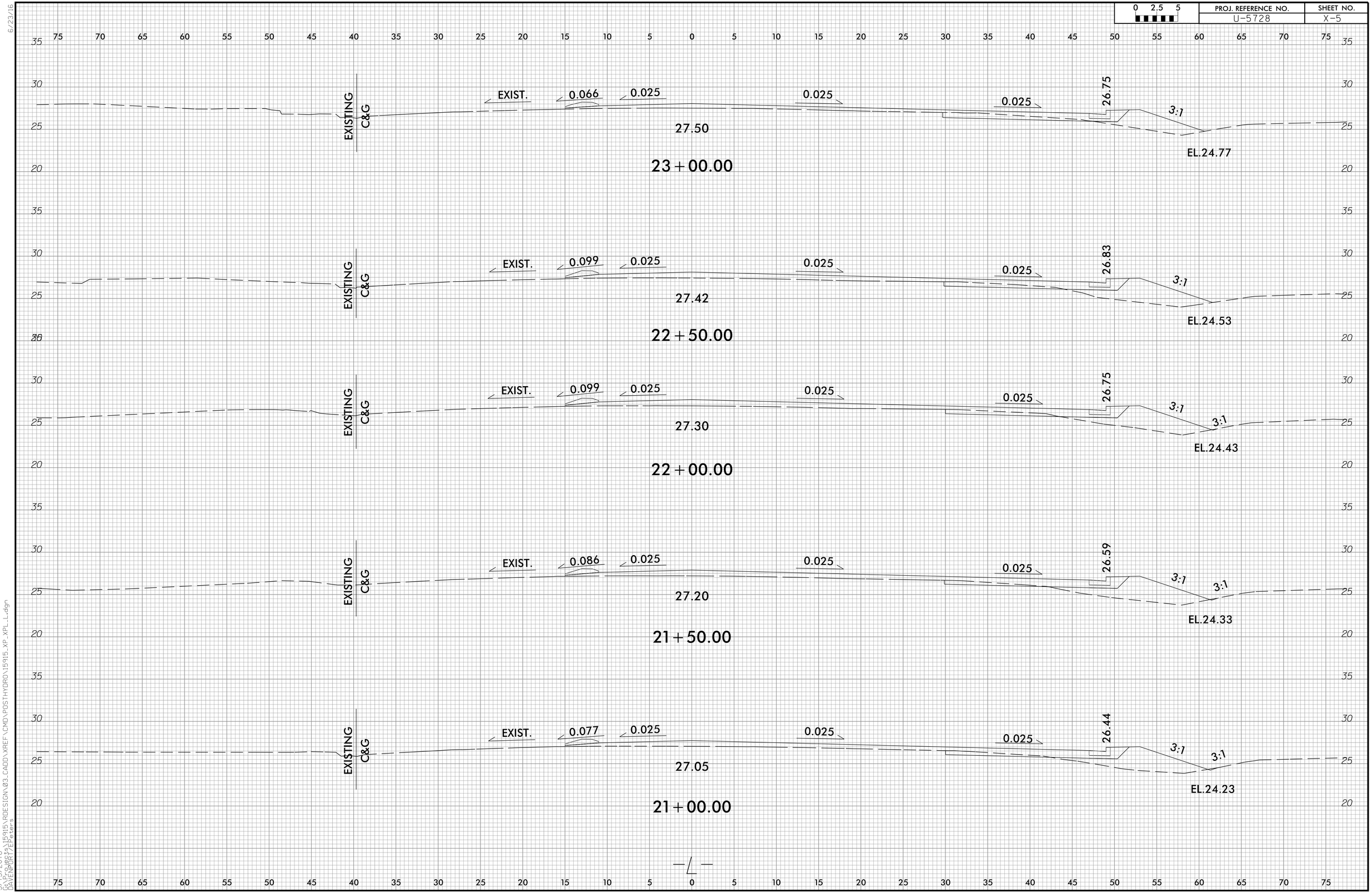
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-4



3/15/2018
G:\Projects\15915\RDESIGN\03_CADD\XREF\CMD\POSTHYDRO\15915_XP-XPL_L.dgn
DAVENPORT/Peters

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-5



3/15/2018
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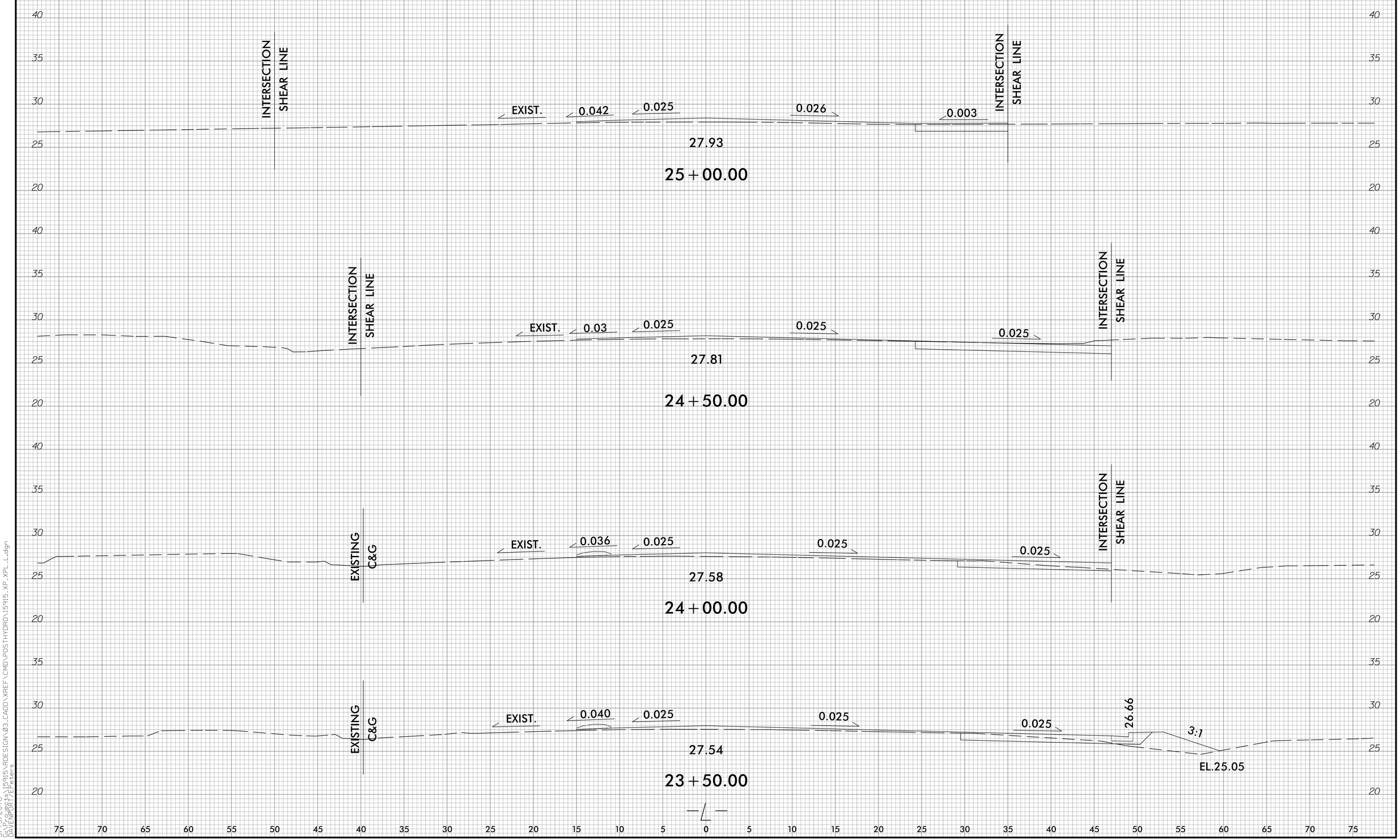
DAVENPORT/Peters

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-6



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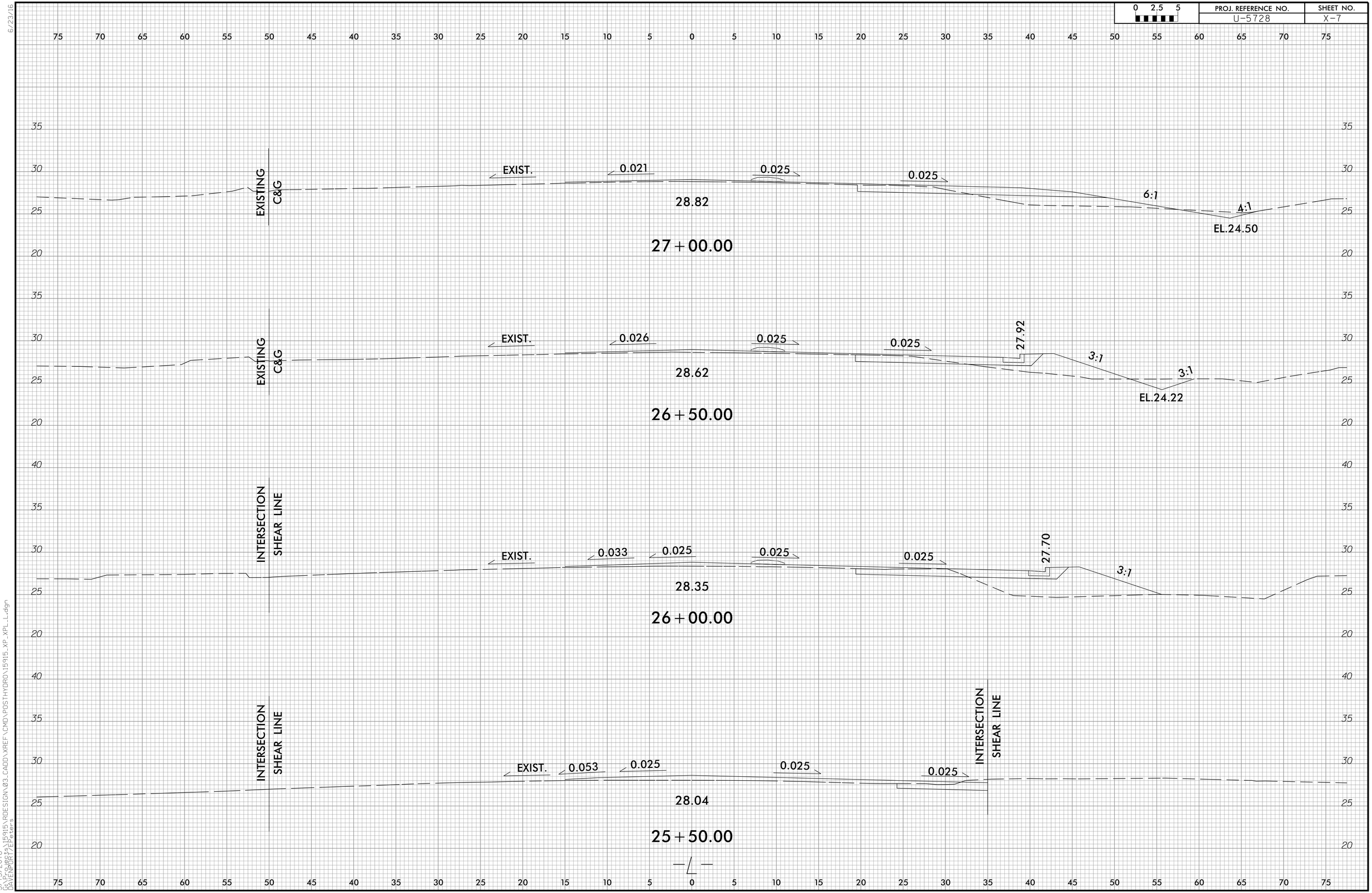
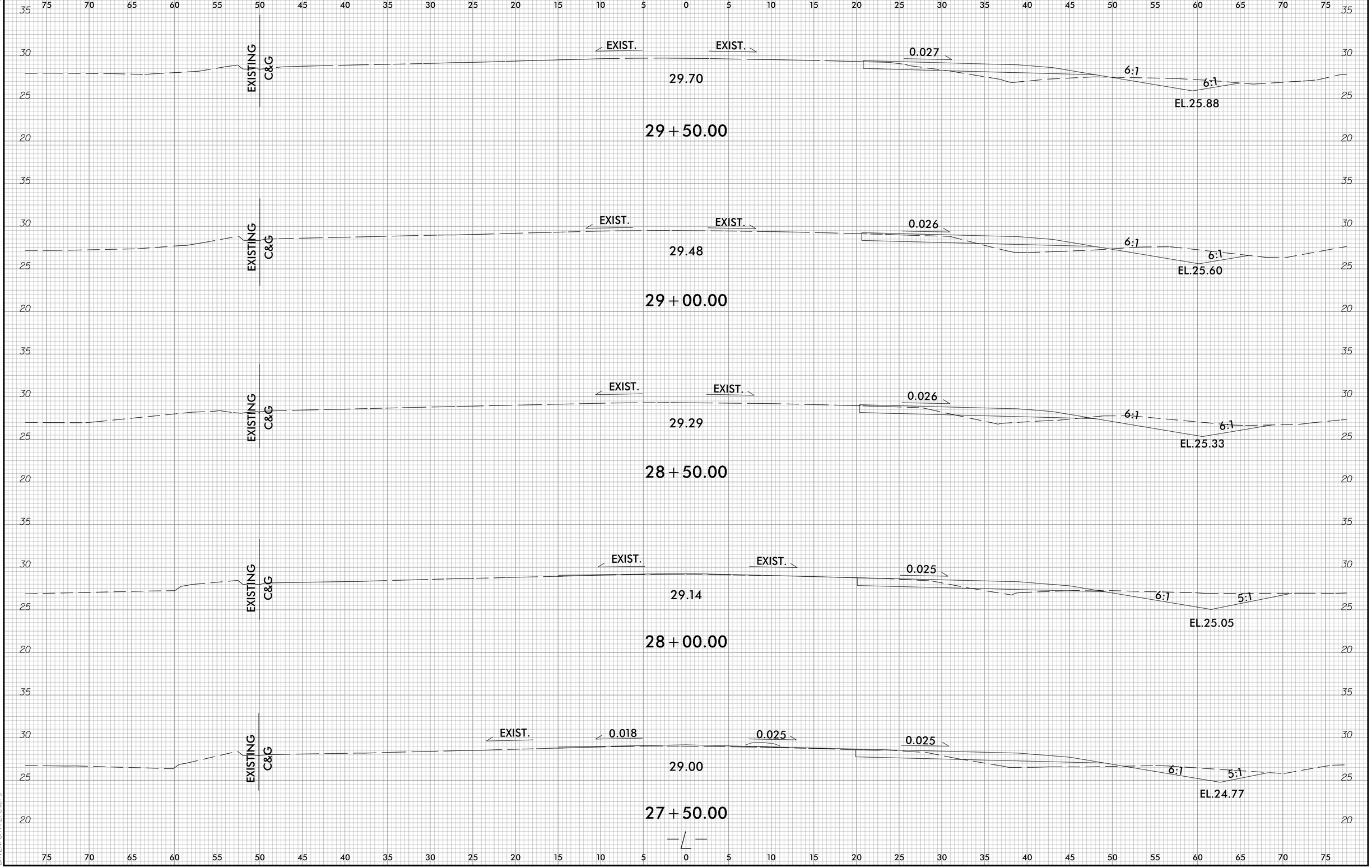
3/15/2018
G:\Projects\15915\RDESIGN\03.CADD\XREF\CMD\POSTHYDRO\15915_XP_XPL_L.dgn
DAVENPORT\EPeters

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-7



3/15/2018
G:\Projects\15915\RDESIGN\03.CADD\XREF\CMD\POSTHYDRO\15915_XP_XPL_L.dgn
DAVENPORT/EPeters

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-8



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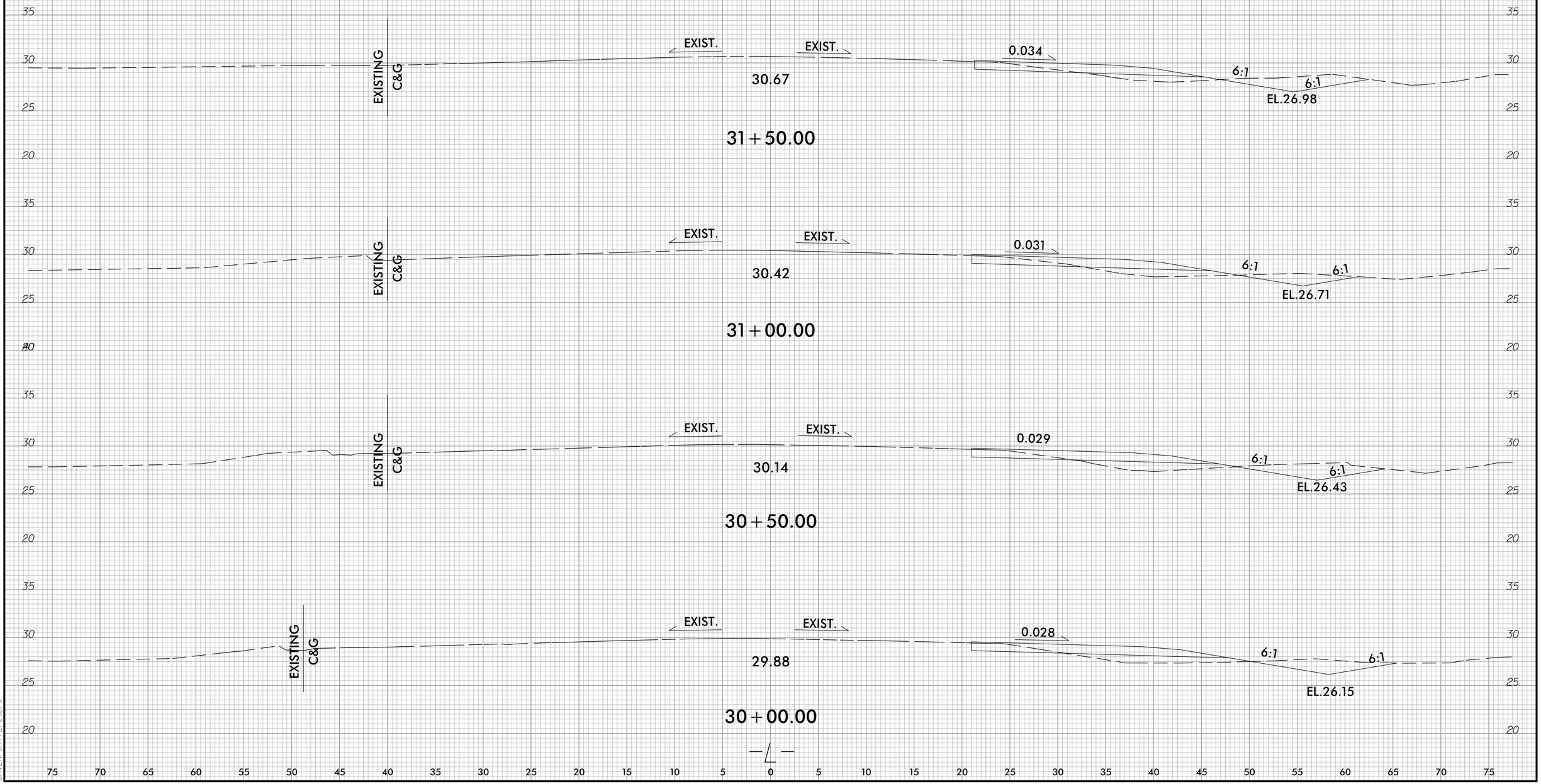
3/15/2018
G:\Projects\15915\RDESIGN\03_CADD\XREF\CMD\POSTHYDRO\15915_XP-XPL_L.dgn
DAVENPORT/Peters

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-9

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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G:\Projects\15915\RDESIGN\03-CADD\XREF\CMD\POSTHYDRO\15915_XP-XPLL.dgn
DAVENPORT/Peters

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-10

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

40 35 30 25 20

EXISTING C&G

EXIST. EXIST.

31.96

0.028

6:1 6:1

EL.28.09

33+50.00

40 35 30 25 20

EXISTING C&G

EXIST. EXIST.

31.67

0.028

6:1 6:1

EL.27.81

33+00.00

40 35 30 25 20

EXISTING C&G

EXIST. EXIST.

31.38

0.028

6:1 6:1

EL.27.54

32+50.00

40 35 30 25 20

EXISTING C&G

EXIST. EXIST.

31.03

0.033

6:1 6:1

EL.27.26

32+00.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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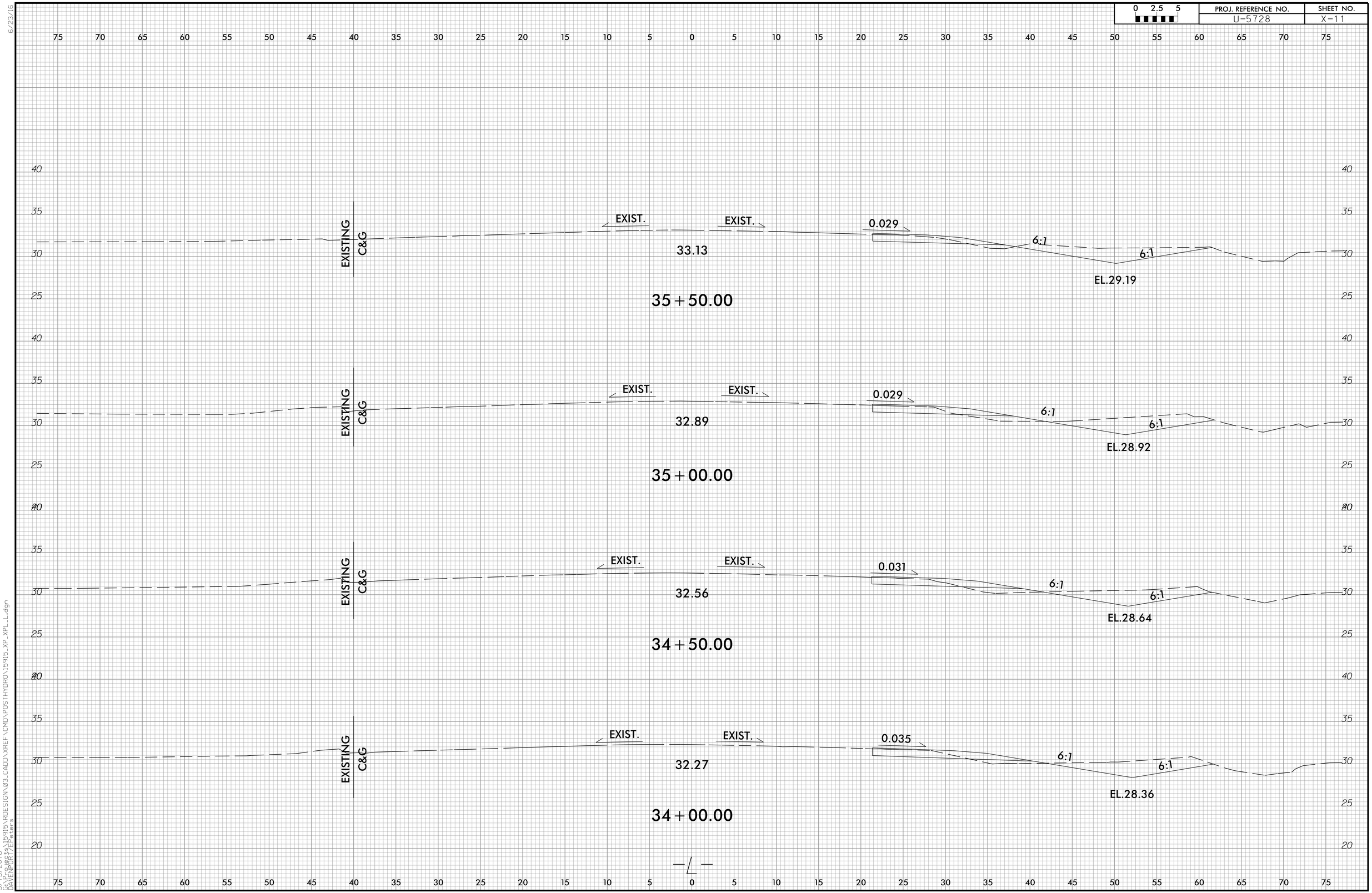
DAVENPORT/EPeters



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3/15/2018
G:\Projects\15915\RDESIGN\03_CADD\XREF\CMD\POSTHYDRO\15915_XP_PL_L.dgn
DAVENPORT/Peters

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-12

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

35 30 25

33.78

38+00.00

35 30 25

33.69

37+50.00

35 30 25

33.57

4:1 3:1

EL.31.10

37+00.00

25 40 35 30 25

EXIST. EXIST.

33.43

4:1 3:1

EL.30.28

36+50.00

40 35 30 25

EXIST. EXIST.

EXISTING C&G

33.32

0.032

6:1 6:1

EL.29.47

36+00.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

3/15/2018
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DAVENPORT/Peters

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-13

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

35
30
35
30
25
35
30
25

33.68
39+50.00

33.76
39+00.00

33.80
38+50.00

—⊿—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

3/15/2018
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DAVENPORT\EPeters

6/23/16

0 2.5 5

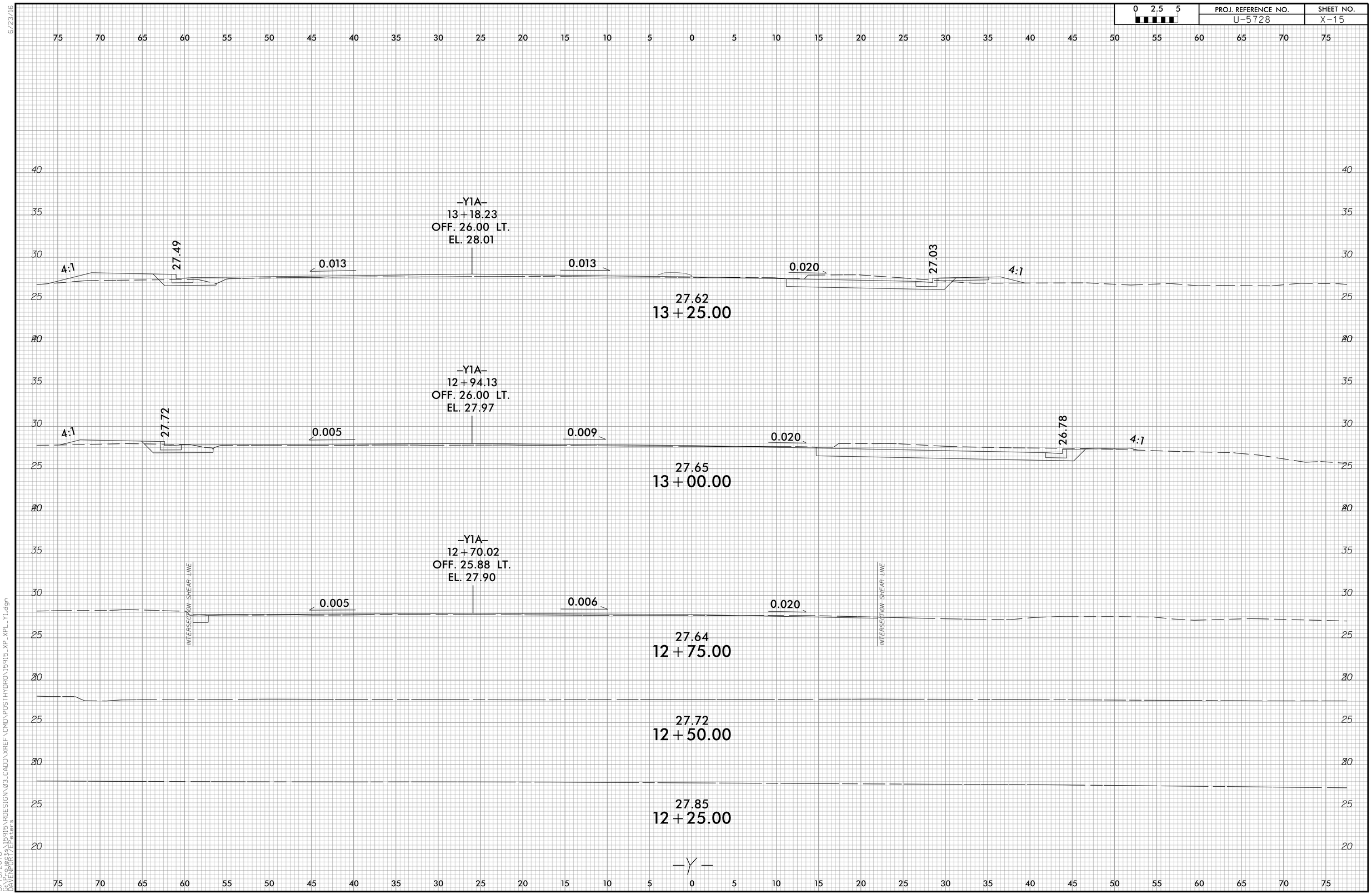
PROJ. REFERENCE NO.	SHEET NO.
U-5728	X-14

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

3/15/2018
G:\Projects\15915\RDESIGN\03.CADD\XREF\CMD\POSTHYDRO\15915_XP_XPL_L.dgn
DAVENPORT\EPeters

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-15



3/15/2018
G:\Projects\15915\RDESIGN\03-CADD\XREF\CMD\POSTHYDRO\15915_XP_XPL_Y1.dgn
DAVENPORT/EPeters

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-16

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

40 35 30 25 20

–Y1A–
14+14.65
OFF. 26.00 LT.
EL. 27.73

4:1 26.78 0.025 0.021 0.020 26.64 4:1

26.94
14+25.00

–Y1A–
13+90.55
OFF. 26.00 LT.
EL. 27.83

4:1 26.87 0.025 0.020 0.020 26.75 4:1

27.06
14+00.00

–Y1A–
13+66.44
OFF. 26.00 LT.
EL. 27.92

4:1 26.96 0.025 0.018 0.020 26.89 4:1

27.24
13+75.00

–Y1A–
13+42.34
OFF. 26.00 LT.
EL. 27.99

0.038 0.021 0.016 0.020 27.02 4:1

27.45
13+50.00

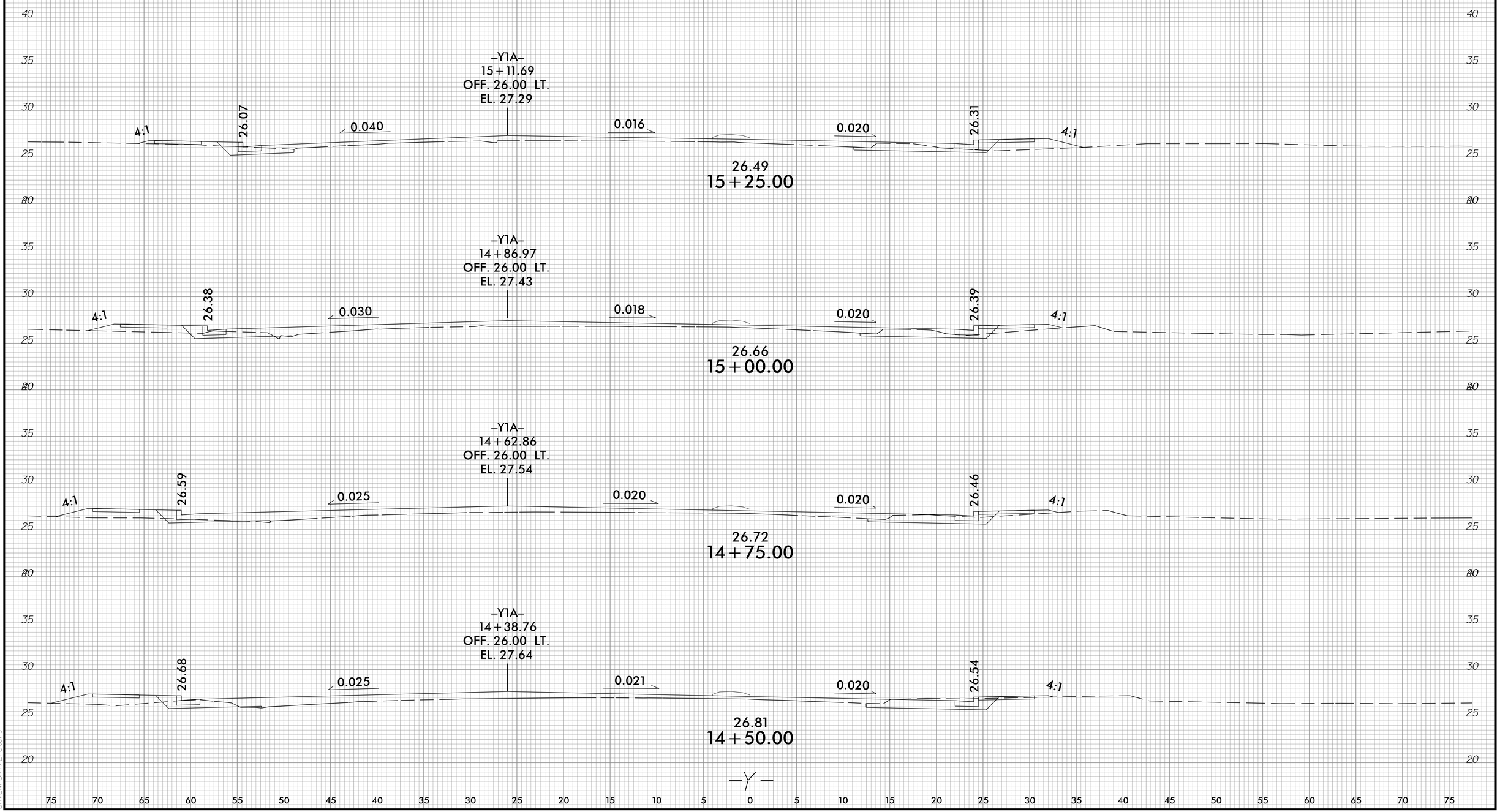
—Y—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

3/15/2018
G:\Projects\15915\RDESIGN\03-CADD\XREF\CMD\POSTHYDRO\15915_XP_XPL_Y1.dgn
DAVENPORT/Peters

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-17

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



—Y—

3/15/2018
G:\Projects\15915\RDESIGN\03_CADD\XREF\CMD\POSTHYDRO\15915_XP-XPL_Y1.dgn
JAVENPORT/Peters

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-18

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

40 35 30 25 20

–Y1A–
16+10.57
OFF. 25.47 LT.
EL. 26.60

TIE TO EXIST. CURB

0.030 0.001 0.020 26.02 4:1

26.20
16+25.00

–Y1A–
15+86.66
OFF. 26.00 LT.
EL. 26.76

TIE TO EXIST. CURB

0.037 0.004 0.020 26.09 4:1

26.28
16+00.00

–Y1A–
15+61.69
OFF. 26.00 LT.
EL. 26.94

TIE TO EXIST. CURB

0.044 0.008 0.020 26.17 4:1

26.33
15+75.00

–Y1A–
15+36.69
OFF. 26.00 LT.
EL. 27.13

4:1 25.80 0.050 0.013 0.020 26.24 4:1

26.42
15+50.00

–Y–

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

3/15/2018
G:\Projects\15915\RDESIGN\03-CADD\XREF\CMD\POSTHYDRO\15915_XP_XPL_Y1.dgn
DAVENPORT\EPeters

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-19

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

40 35 30 25 20

–Y1A–
17+09.44
OFF. 15.83 LT.
EL. 26.57

TIE TO EXIST.CURB

0.034 0.000 0.020 26.00 4:1

26.26
17+25.00

–Y1A–
16+84.29
OFF. 18.60 LT.
EL. 26.61

TIE TO EXIST.CURB

0.035 0.005 0.020 25.96 4:1

26.24
17+00.00

–Y1A–
16+59.13
OFF. 21.38 LT.
EL. 26.64

TIE TO EXIST.CURB

0.034 0.006 0.020 25.95 4:1

26.22
16+75.00

–Y1A–
16+34.57
OFF. 23.91 LT.
EL. 26.62

TIE TO EXIST.CURB

0.031 0.003 0.020 25.98 4:1

26.17
16+50.00

—Y—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

3/15/2018
G:\Projects\15915\RDESIGN\03-CADD\XREF\CMD\POSTHYDRO\15915_XP_XPL_Y1.dgn
DAVENPORT/EPeters

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-20

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

40 35 30 25 20

–Y1A–
18+10.03
OFF. 4.95 LT.
EL. 26.46

TIE TO EXIST.CURB

EXIST. 0.043 0.020 26.09 4:1

26.24
18+25.00

–Y1A–
17+84.90
OFF. 7.54 LT.
EL. 26.47

TIE TO EXIST.CURB

EXIST. 0.028 0.020 26.13 4:1

26.24
18+00.00

–Y1A–
17+59.75
OFF. 10.27 LT.
EL. 26.55

TIE TO EXIST.CURB

EXIST. 0.012 0.020 26.12 4:1

26.31
17+75.00

–Y1A–
17+34.59
OFF. 13.05 LT.
EL. 26.56

TIE TO EXIST.CURB

0.034 0.004 0.020 26.06 4:1

26.29
17+50.00

—Y—

3/15/2018
G:\Projects\15915\RDESIGN\03-CADD\XREF\CMD\POSTHYDRO\15915_XP_XPL_Y1.dgn
DAVENPORT/EPeters

25.93
19+75.00

26.05
19+50.00

26.18
19+25.00

TIE TO EXIST.CURB

EXIST.

0.020

25.75

4:1

26.26
19+00.00

–Y1A–
18+60.28
OFF. 1.03 LT.
EL. 26.37

0.063

25.87

26.24
18+75.00

–Y1A–
18+35.19
OFF. 2.62 LT.
EL. 26.40

0.061

26.00

26.25
18+50.00

–Y–

6/23/16

3/15/2018
G:\Projects\15915\RDESIGN\03-CADD\XREF\CMD\POSTHYDRO\15915_XP_XPL_Y1.dgn
DAVENPORT/EPeters

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-22

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

30 25 20

26.01
22+00.00

25.94
21+75.00

25.91
21+50.00

25.94
21+25.00

25.94
21+00.00

25.92
20+75.00

25.91
20+50.00

25.88
20+25.00

25.85
20+00.00

—Y—

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

3/15/2018
G:\Projects\15915\RDESIGN\03_CADD\XREF\CMD\POSTHYDRO\15915_XP_XPL_Y1.dgn
DAVENPORT\EPeters

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	U-5728	X-23

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

30
25
20

26.19
23+50.00

26.15
23+25.00

26.10
23+00.00

26.05
22+75.00

26.02
22+50.00

26.03
22+25.00

—Y—

3/15/2018
G:\Projects\15915\RDESIGN\03_CADD\XREF\CMD\POSTHYDRO\15915_XP_XPL_Y1.dgn
DAVENPORT\EPeters